

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083119\  
 Data File : BF116717.D  
 Acq On : 1 Sep 2019 1:23  
 Operator : HP/JU  
 Sample : K4583-02  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GS-STOCKPILE

Quant Time: Sep 01 02:46:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 30 20:02:30 2019  
 Response via : Initial Calibration

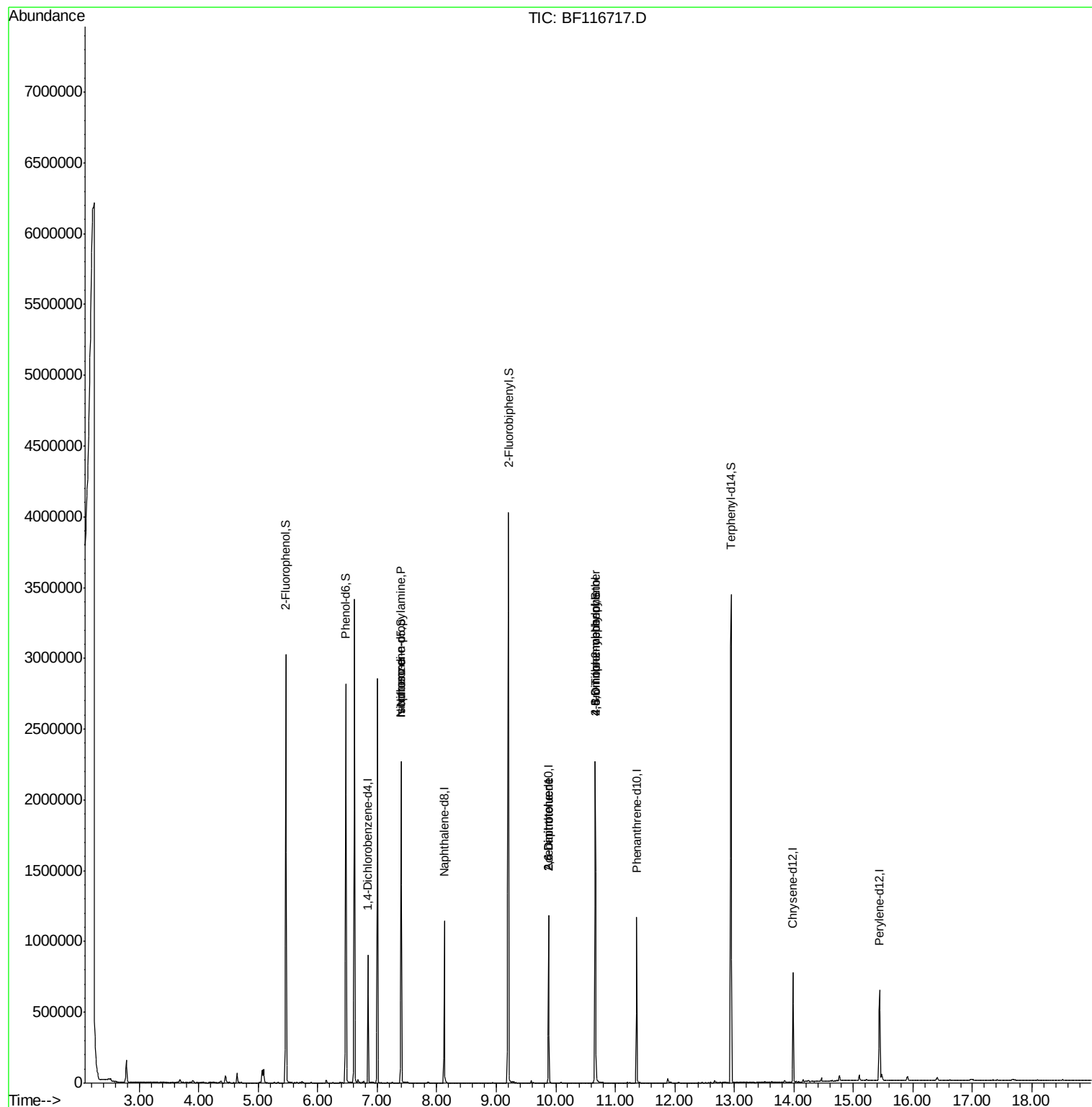
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 122209   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 476287   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.88  | 164  | 244782   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.36 | 188  | 383899   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 13.99 | 240  | 233990   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.44 | 264  | 279527   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 856356   | 113.52 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 1061712  | 107.18 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 775785   | 92.98  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 226462   | 138.39 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 1208471  | 83.28  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.94 | 244  | 1153080  | 91.16  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 103116   | 15.810 | ng    | # 72     |
| 25) Isophorone                 | 7.40  | 82   | 775773   | 45.887 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 9.88  | 165  | 31461    | 9.757  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 9.88  | 165  | 31461    | 7.980  | ng    | # 21     |
| 65) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 603      | 7.811  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 14663    | 3.760  | ng    | # 1      |

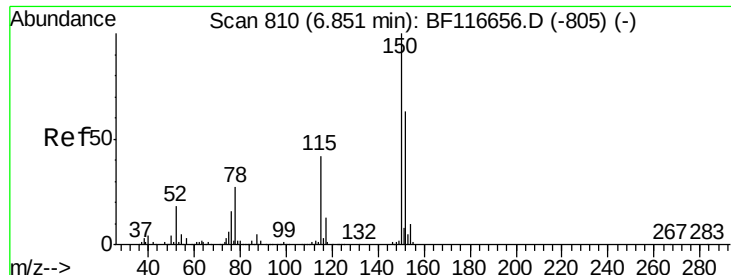
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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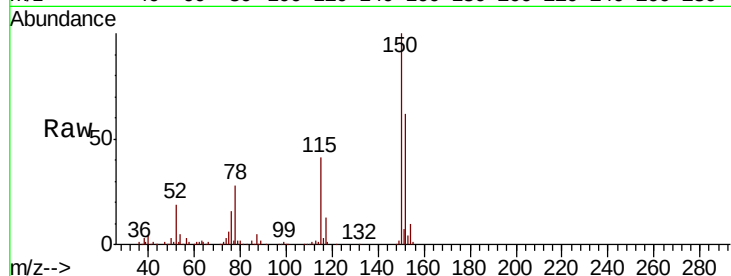


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
GS-STOCKPILE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.4 | 124.4 | 186.6 |
| 115     | 66.1  | 49.9  | 74.9  |

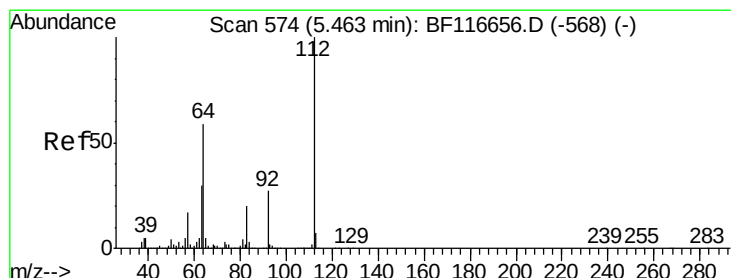
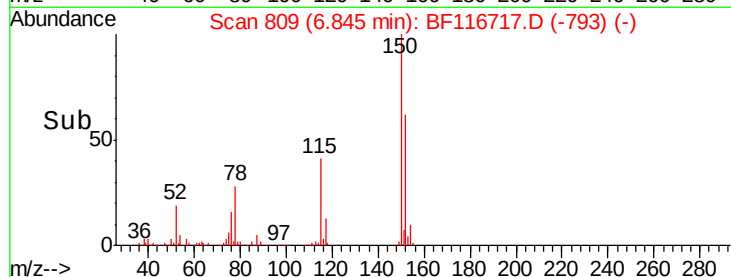
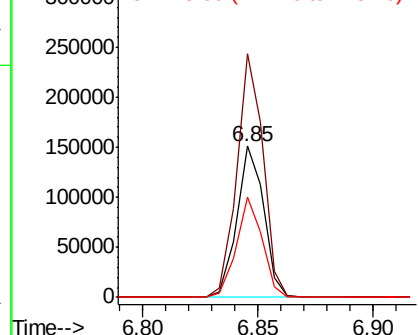


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

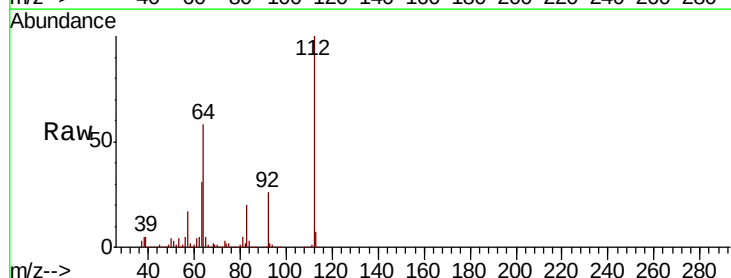
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 113.522 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.01 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.2  | 47.1  | 70.7  |
| 63      | 30.8  | 24.9  | 37.3  |

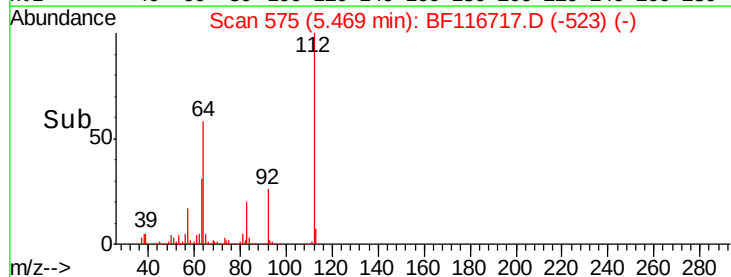
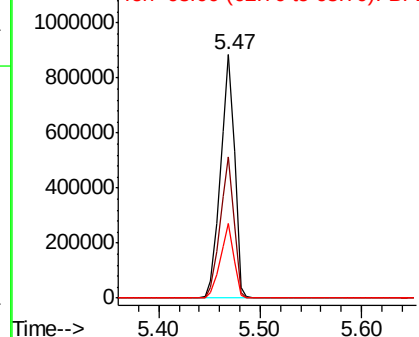


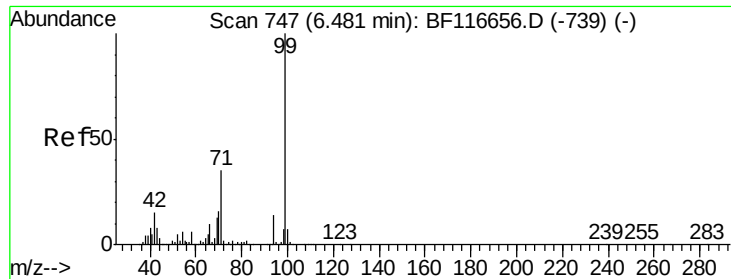
Abundance

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: 107.185 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

Instrument :

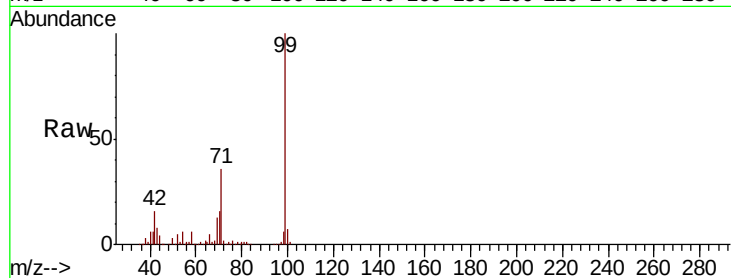
BNA\_F

ClientSampleId :

GS-STOCKPILE

Tot Ion: 99 Resp: 1061712

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 16.1  | 13.7  | 20.5  |
| 71  | 35.5  | 30.8  | 46.2  |

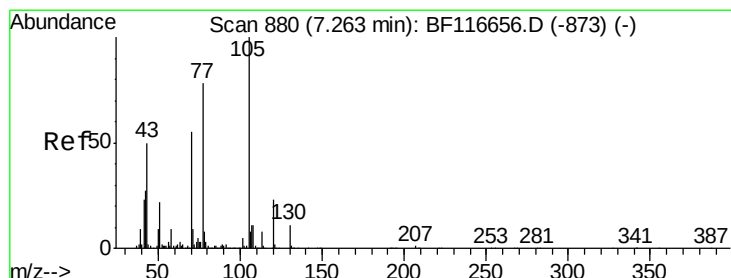
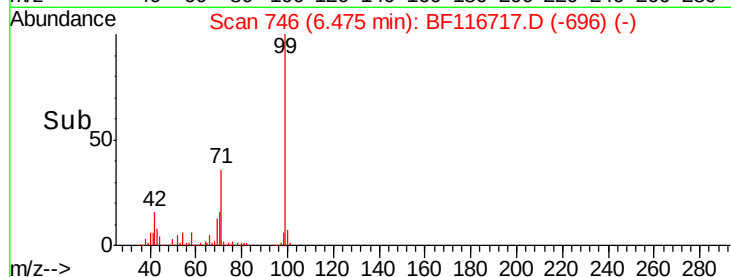


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 15.810 ng

RT: 7.40 min Scan# 904

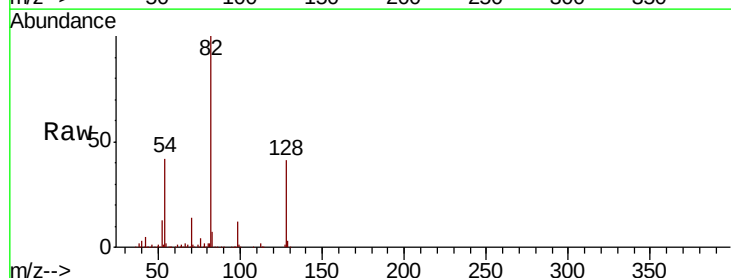
Delta R.T. 0.14 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

Tgt Ion: 70 Resp: 103116

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 38.0  | 43.5  | 65.3# |
| 101 | 0.0   | 7.8   | 11.6# |
| 130 | 1.7   | 16.6  | 24.8# |



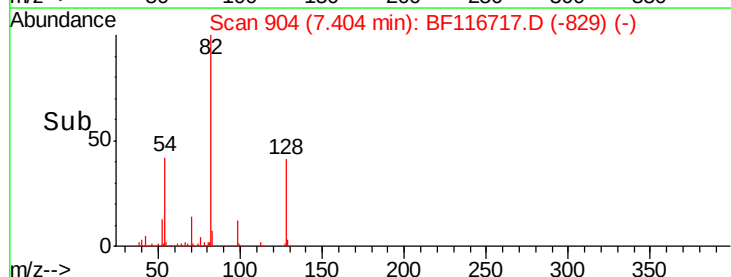
Abundance

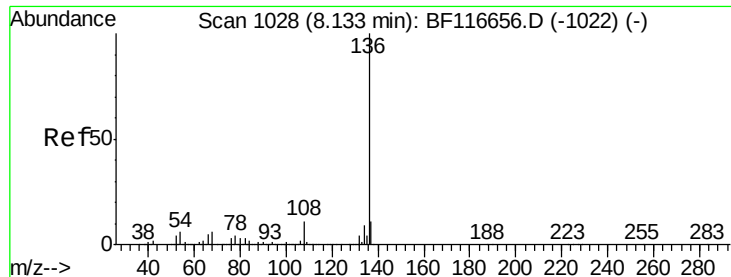
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

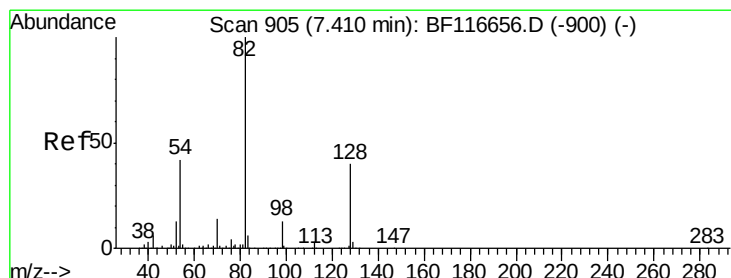
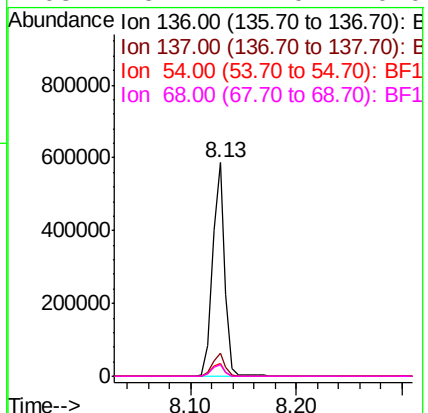
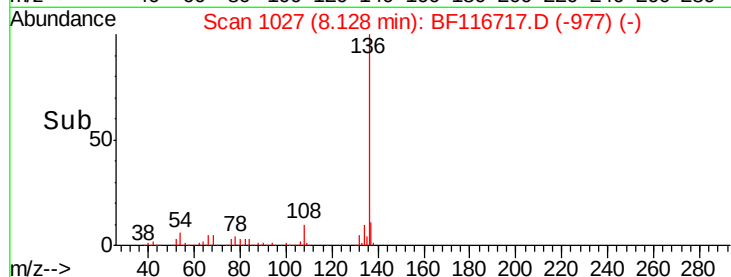
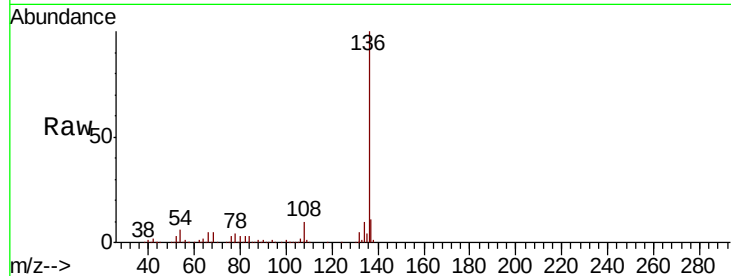




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

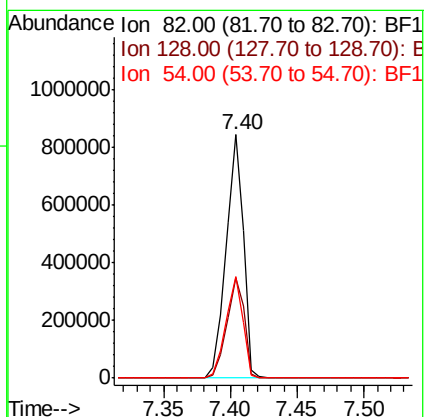
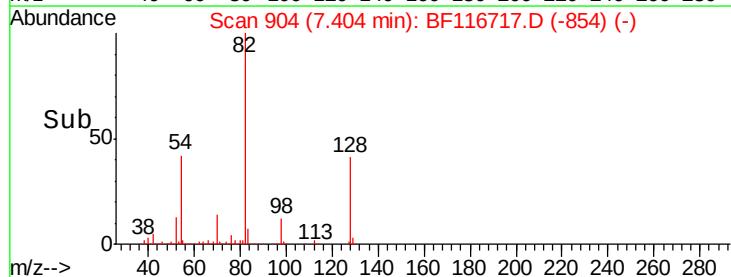
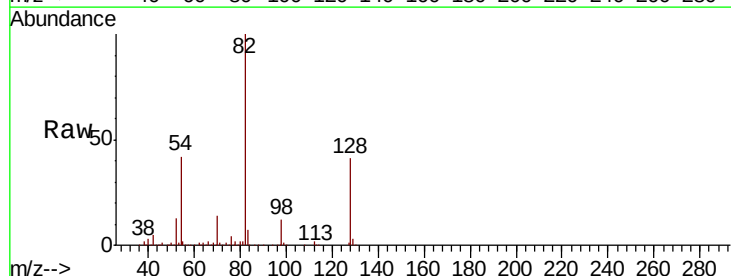
Instrument :  
BNA\_F  
ClientSampleId :  
GS-STOCKPILE

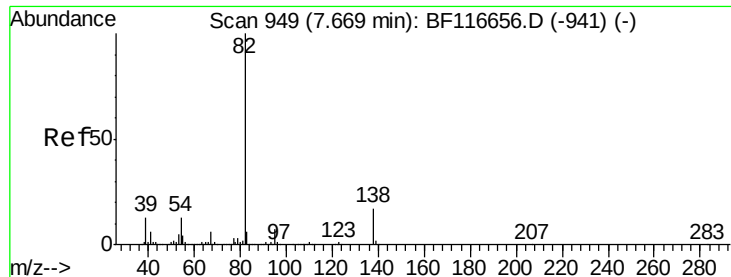
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 476287 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.0    | 8.9   | 13.3   |
| 54 6.0      | 4.8   | 7.2    |
| 68 5.4      | 4.0   | 6.0    |



#23  
Nitrobenzene-d5  
Concen: 92.985 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 775785 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 41.2    | 32.8  | 49.2   |
| 54  | 41.6    | 36.9  | 55.3   |





#25

Isophorone

Concen: 45.887 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

Instrument :

BNA\_F

ClientSampleId :

GS-STOCKPILE

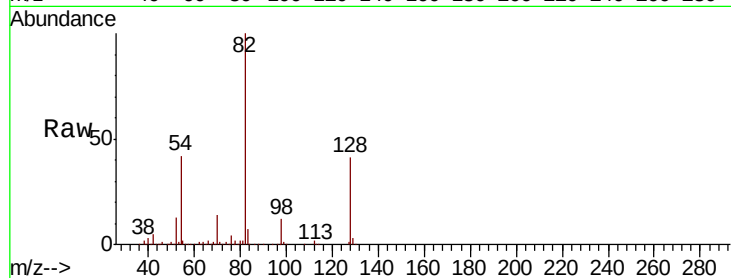
Tot Ion: 82 Resp: 775773

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

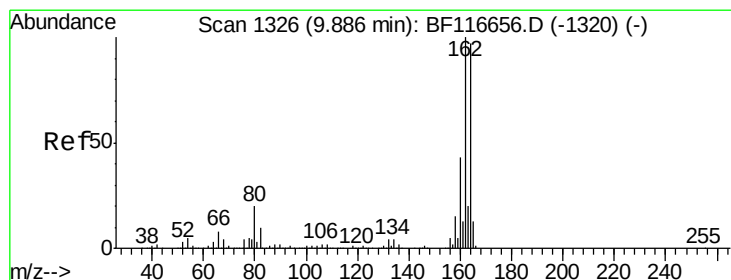
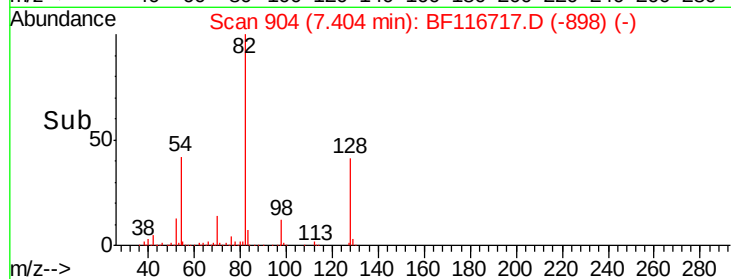
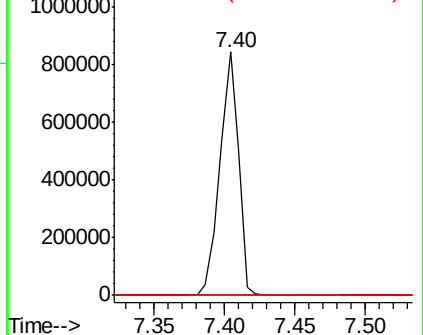
138 0.0 13.5 20.3#



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: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

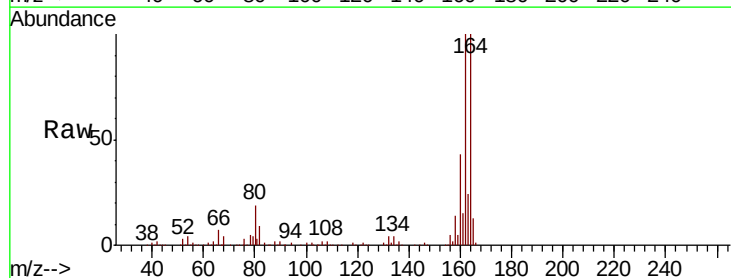
Tgt Ion: 164 Resp: 244782

Ion Ratio Lower Upper

164 100

162 99.9 81.4 122.0

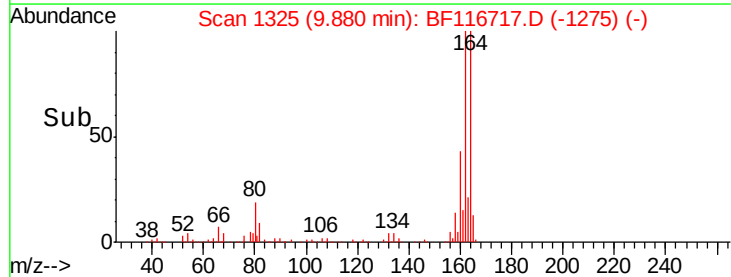
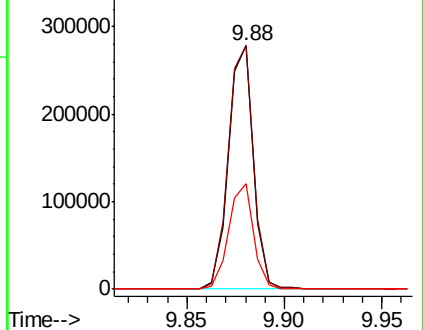
160 43.1 35.4 53.2

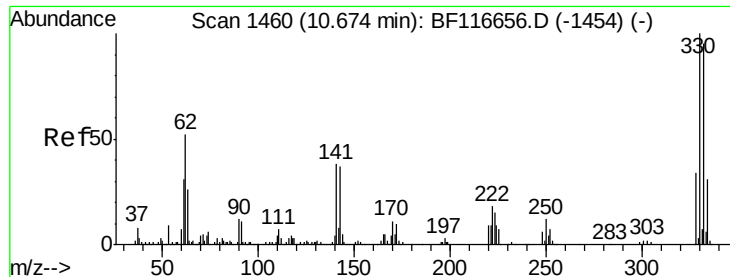


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

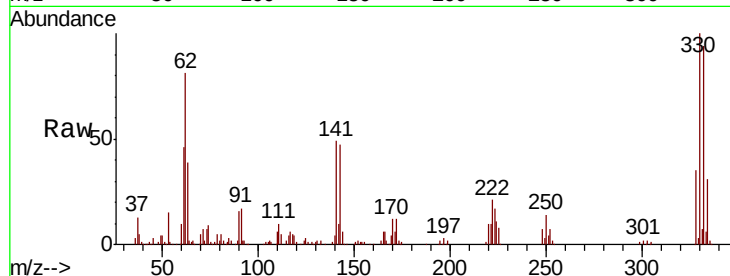




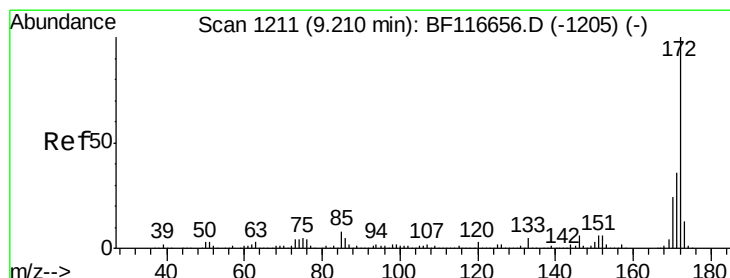
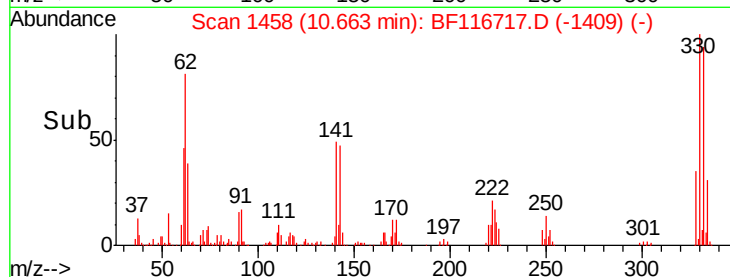
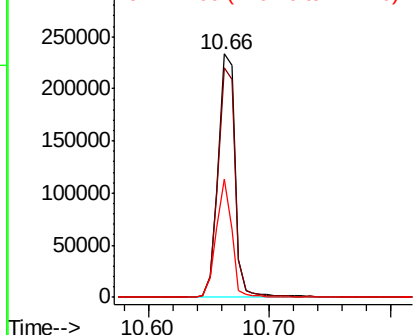
#42  
 2,4,6-Tribromophenol  
 Concen: 138.389 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.01 min  
 Lab File: BF116717.D  
 Acq: 1 Sep 2019 1:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GS-STOCKPILE

Tot Ion:330 Resp: 226462  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 76.9 115.3  
 141 44.0 31.4 47.2

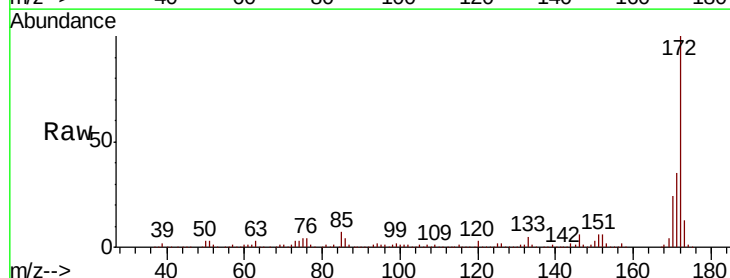


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

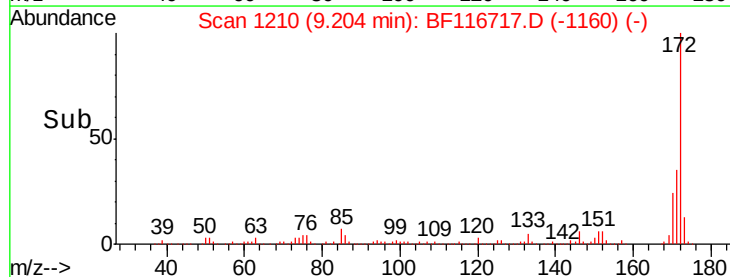
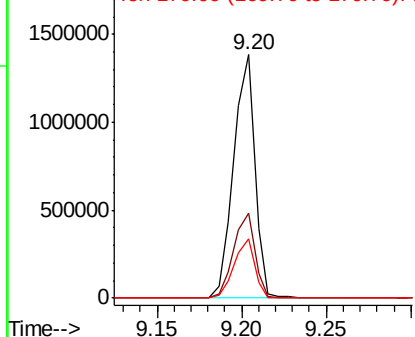


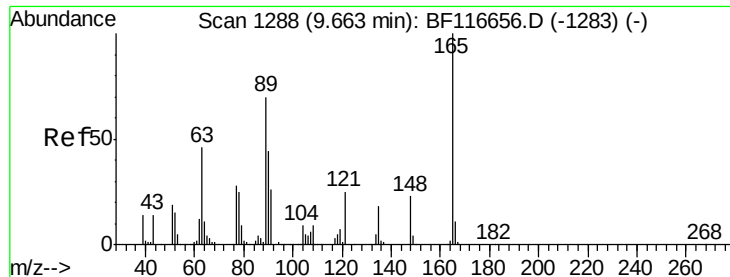
#45  
 2-Fluorobiphenyl  
 Concen: 83.281 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF116717.D  
 Acq: 1 Sep 2019 1:23

Tgt Ion:172 Resp: 1208471  
 Ion Ratio Lower Upper  
 172 100  
 171 34.9 27.8 41.6  
 170 24.1 18.9 28.3



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

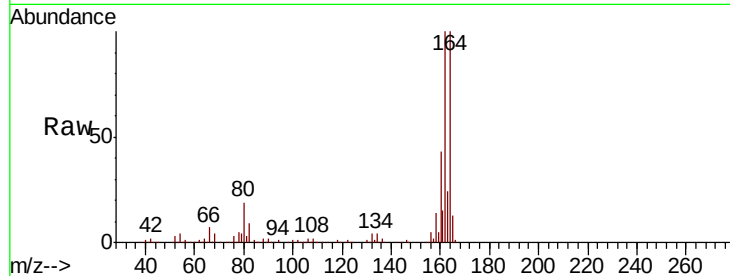




#51  
2,6-Dinitrotoluene  
Concen: 9.757 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. 0.22 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
GS-STOCKPILE

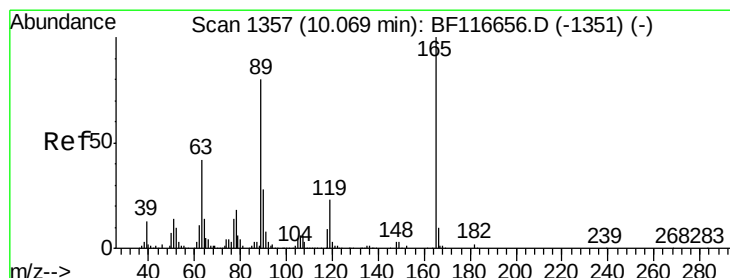
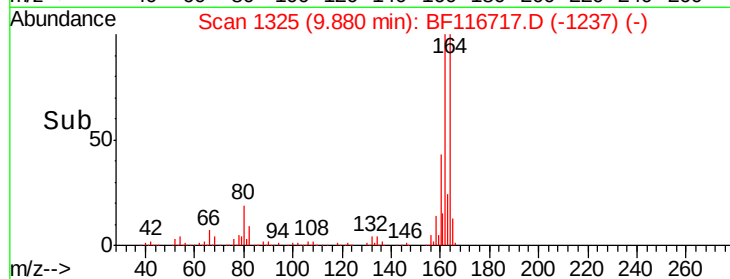
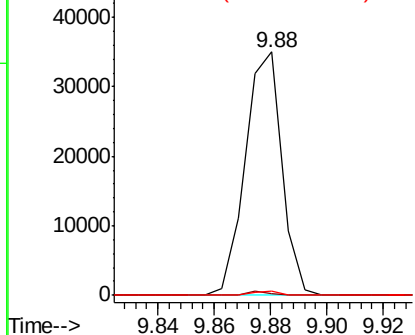
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 47.3  | 70.9# |
| 89      | 2.0   | 52.5  | 78.7# |



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: 7.980 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.19 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

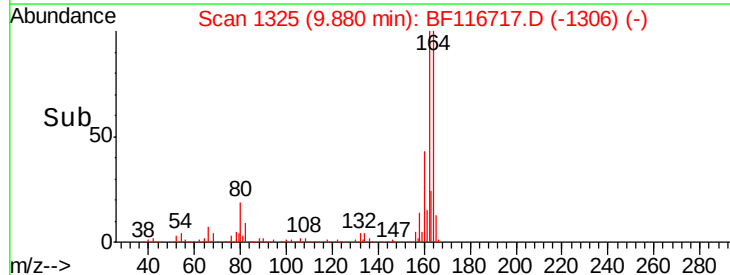
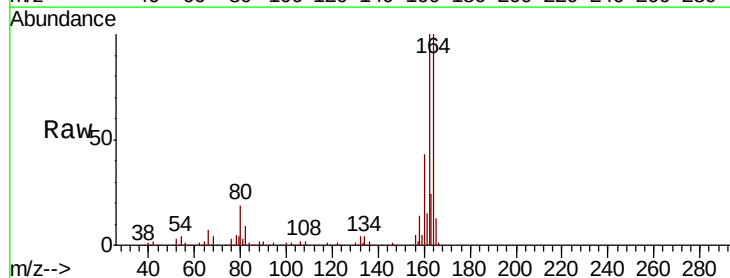
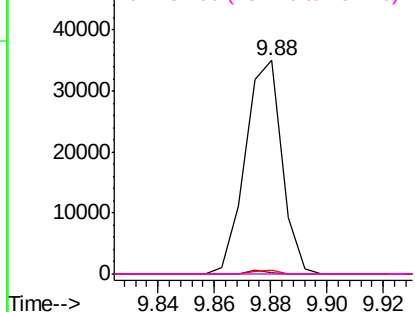
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 36.4  | 54.6# |
| 89      | 2.0   | 62.6  | 94.0# |
| 182     | 0.0   | 2.1   | 3.1#  |

Abundance Ion 165.00 (164.70 to 165.70): E

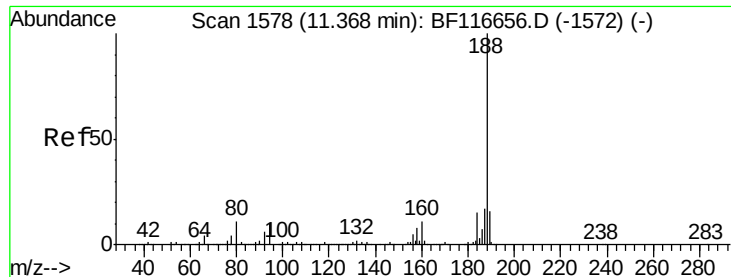
Ion 63.00 (62.70 to 63.70): BF1

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: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

Instrument :

BNA\_F

ClientSampleId :

GS-STOCKPILE

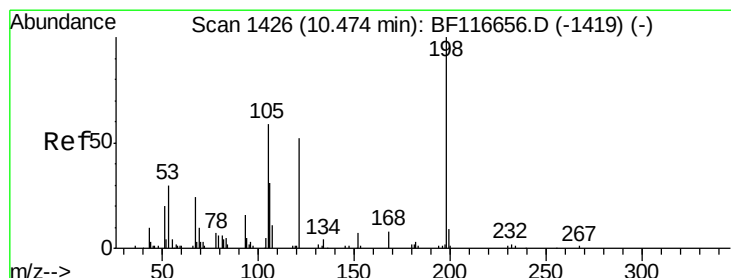
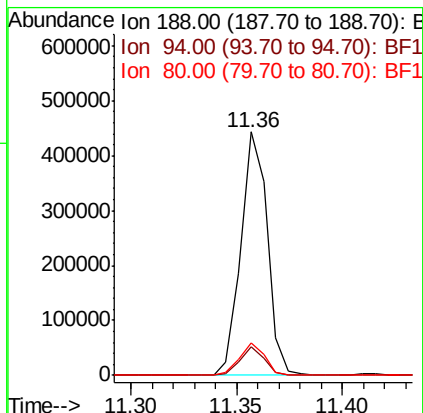
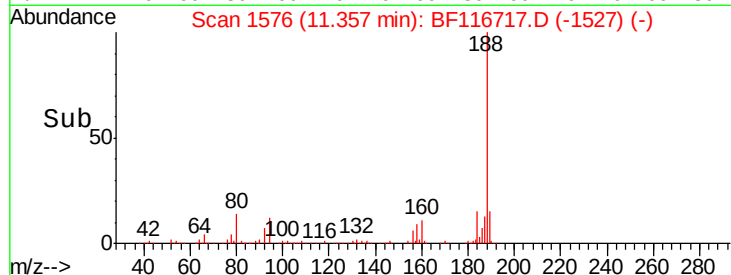
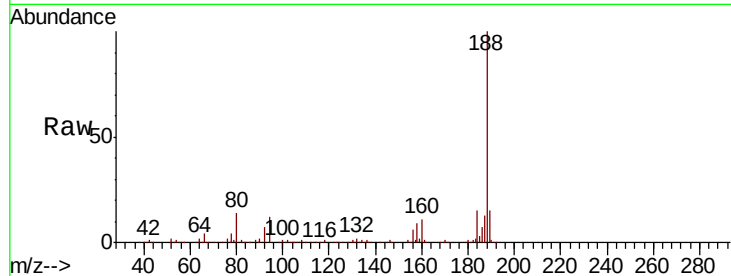
Tot Ion:188 Resp: 383899

Ion Ratio Lower Upper

188 100

94 11.6 7.3 10.9#

80 13.5 8.4 12.6#



#65

4,6-Dinitro-2-methylphenol

Concen: 7.811 ng

RT: 10.66 min Scan# 1458

Delta R.T. 0.19 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

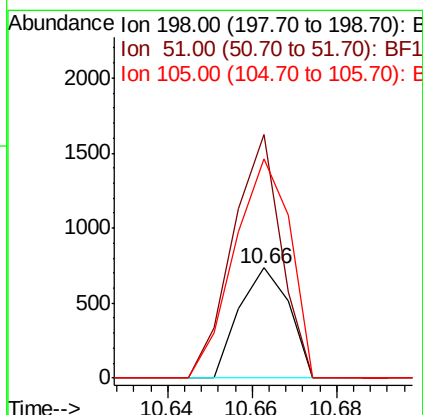
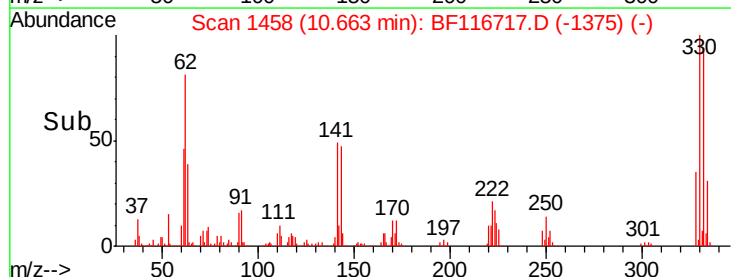
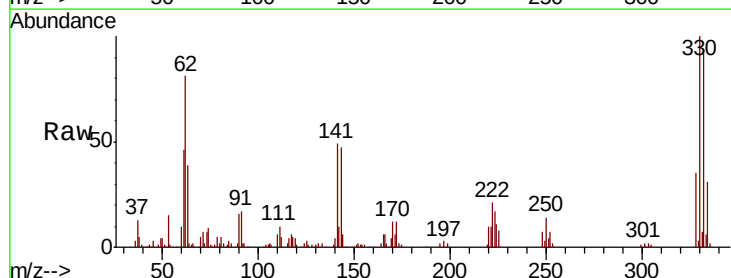
Tgt Ion:198 Resp: 603

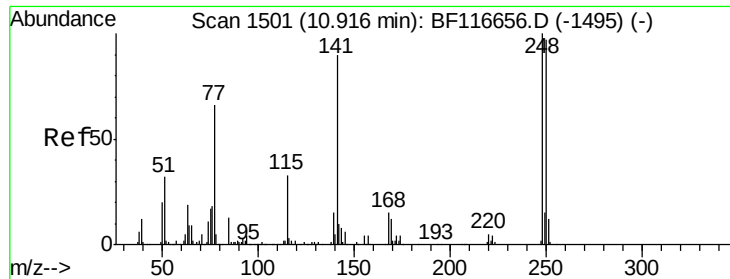
Ion Ratio Lower Upper

198 100

51 221.4 18.4 58.4#

105 199.6 22.9 62.9#

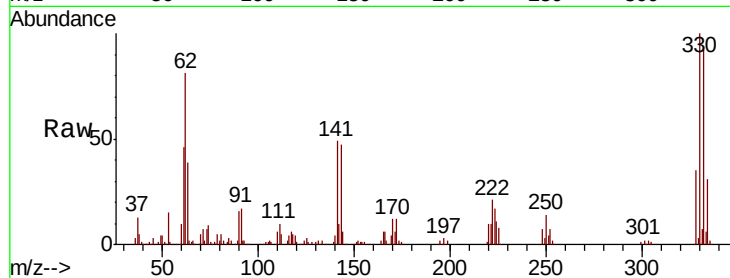




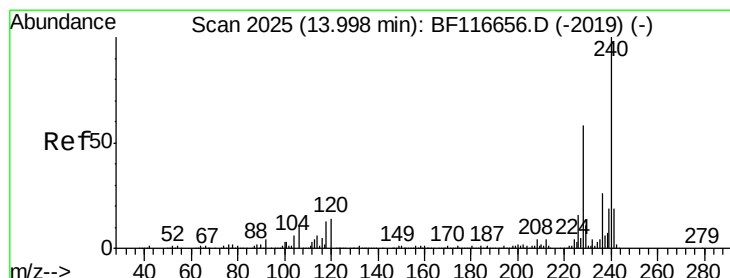
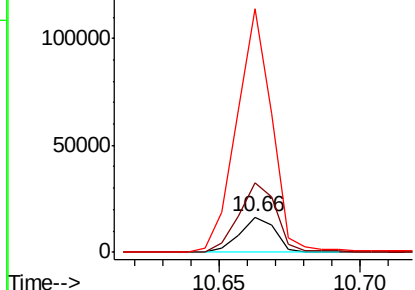
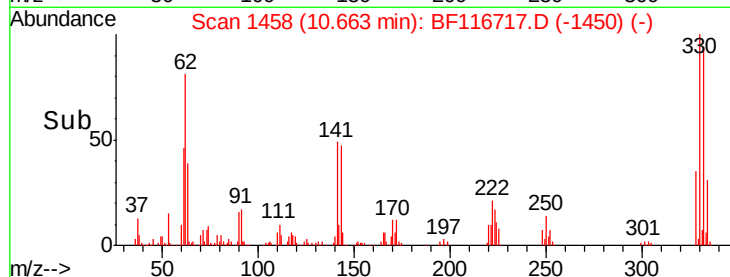
#67  
4-Bromophenyl-phenylether  
Concen: 3.760 ng  
RT: 10.66 min Scan# 1458  
Delta R.T. -0.25 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
GS-STOCKPILE

Tot Ion:248 Resp: 14663  
Ion Ratio Lower Upper  
248 100  
250 198.1 77.8 116.8#  
141 688.8 75.9 113.9#

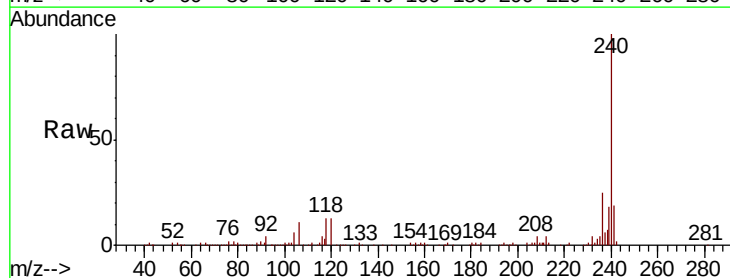


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

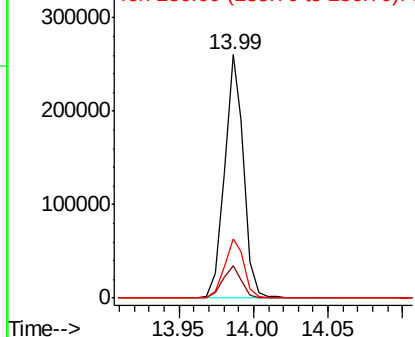
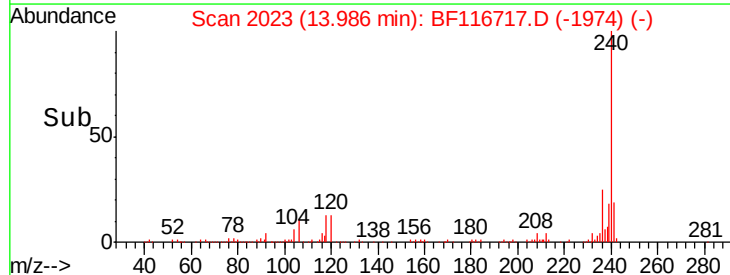


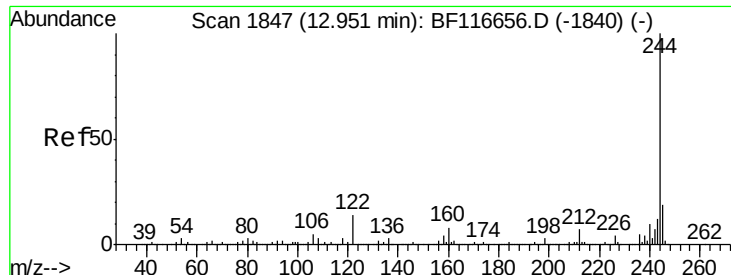
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BF116717.D  
Acq: 1 Sep 2019 1:23

Tgt Ion:240 Resp: 233990  
Ion Ratio Lower Upper  
240 100  
120 13.4 9.1 13.7  
236 24.6 21.1 31.7



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: 91.163 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

Instrument :

BNA\_F

ClientSampleId :

GS-STOCKPILE

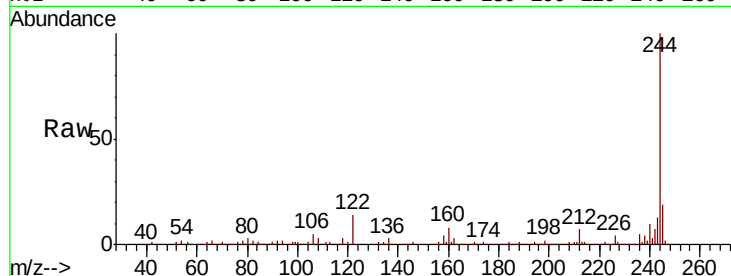
Tot Ion:244 Resp: 1153080

Ion Ratio Lower Upper

244 100

212 7.1 6.1 9.1

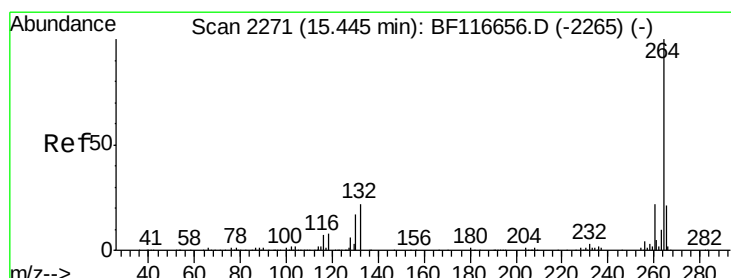
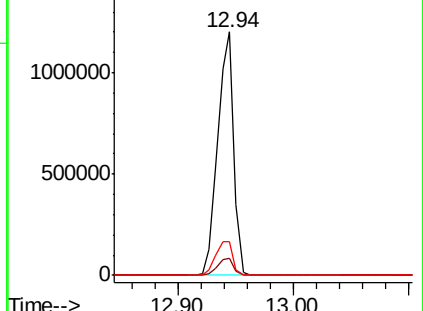
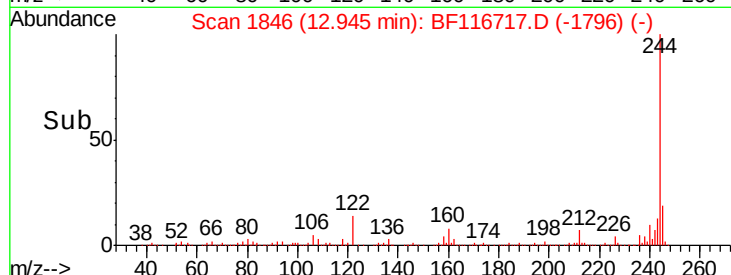
122 13.7 10.2 15.4



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: 15.44 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BF116717.D

Acq: 1 Sep 2019 1:23

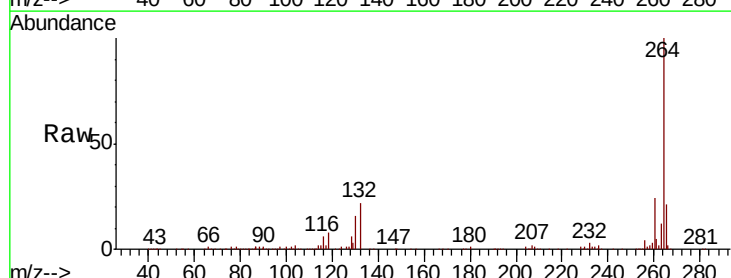
Tgt Ion:264 Resp: 279527

Ion Ratio Lower Upper

264 100

260 24.1 18.3 27.5

265 21.1 16.5 24.7



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

