

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072920\  
 Data File : BF121104.D  
 Acq On : 29 Jul 2020 16:21  
 Operator : JU/CG  
 Sample : L3460-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CARLSTADT-TOPSOIL-2020

Quant Time: Jul 29 17:07:31 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071620.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 29 14:55:43 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 146982   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 554707   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.83  | 164  | 300883   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.32 | 188  | 572752   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.96 | 240  | 432054   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.40 | 264  | 383573   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.42  | 112  | 601569   | 67.10 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 742199   | 64.08 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 489626   | 51.07 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 226274   | 68.70 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 946590   | 46.97 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.90 | 244  | 1000240  | 50.32 | ng    | 0.00     |

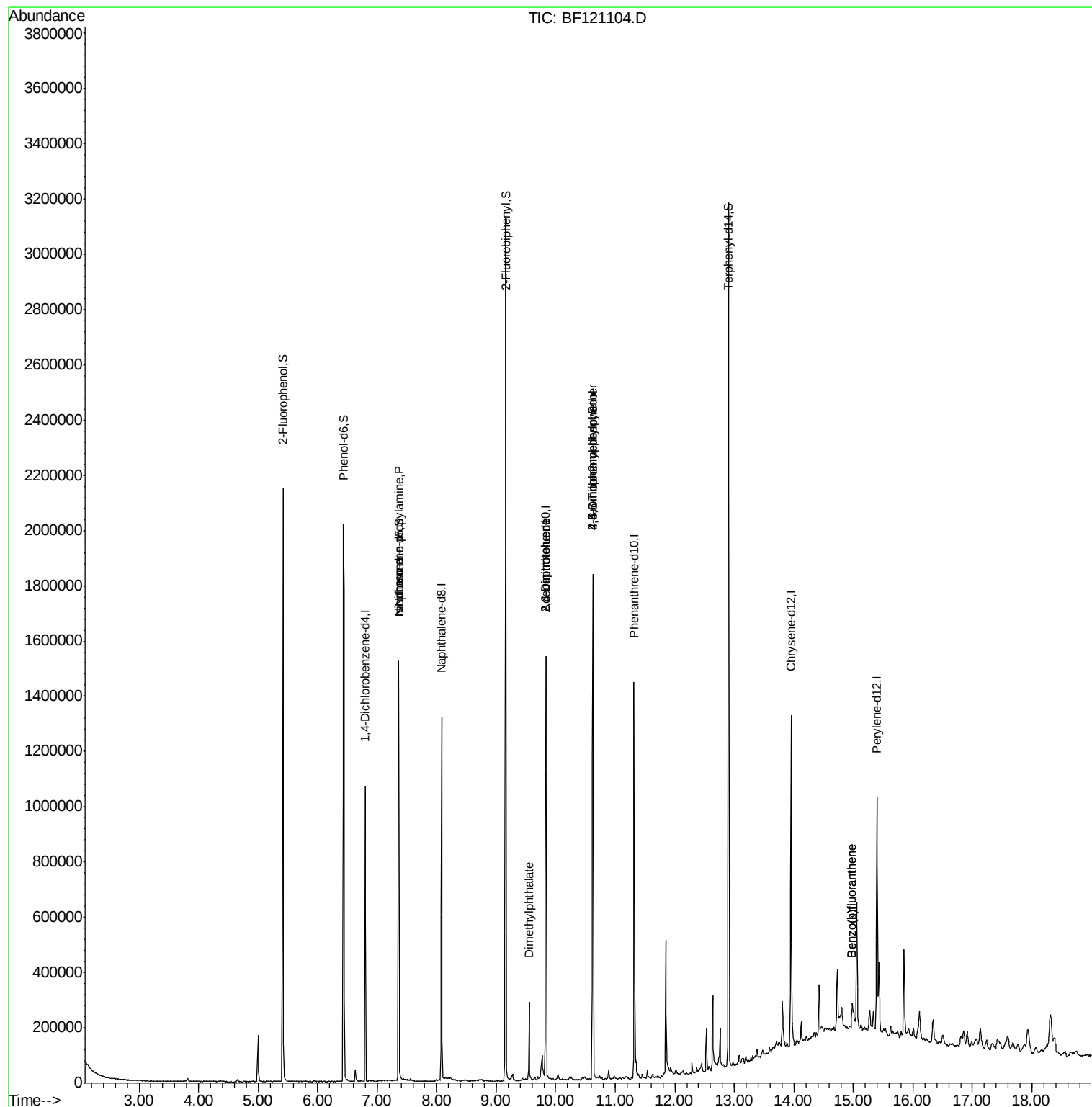
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.44  | 77   | 1150     | Below Cal |       | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 64700    | 9.824     | ng    | # 77   |
| 25) Isophorone                 | 7.36  | 82   | 484079   | 25.301    | ng    | # 62   |
| 50) Dimethylphthalate          | 9.55  | 163  | 105393   | 4.855     | ng    | # 100  |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 38924    | 8.347     | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 38924    | 6.356     | ng    | # 29   |
| 65) 4,6-Dinitro-2-methylphenol | 10.62 | 198  | 443      | 3.965     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.62 | 248  | 12907    | 2.021     | ng    | # 1    |
| 88) Benzo(b)fluoranthene       | 14.98 | 252  | 64343    | 2.775     | ng    | # 92   |
| 89) Benzo(k)fluoranthene       | 14.98 | 252  | 64343    | 3.043     | ng    | # 93   |

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

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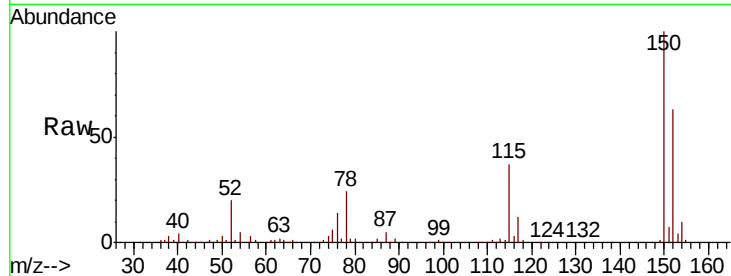


#1

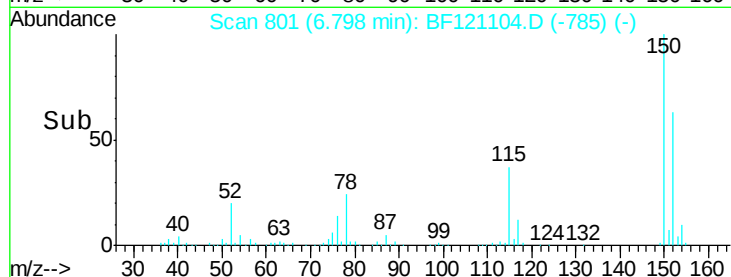
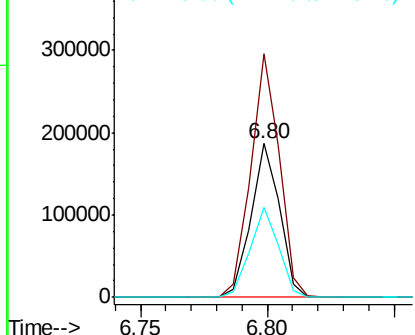
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.01 min  
Lab File: BF121104.D  
Acq: 29 Jul 2020 16:21

Instrument :  
BNA\_F  
ClientSampleId :  
CARLSTADT-TOPSOIL-2020

Tot Ion:152 Resp: 146982  
Ion Ratio Lower Upper  
152 100  
150 158.3 125.6 188.4  
115 58.9 46.2 69.2



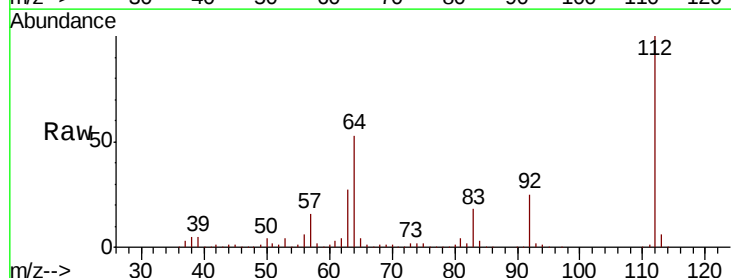
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



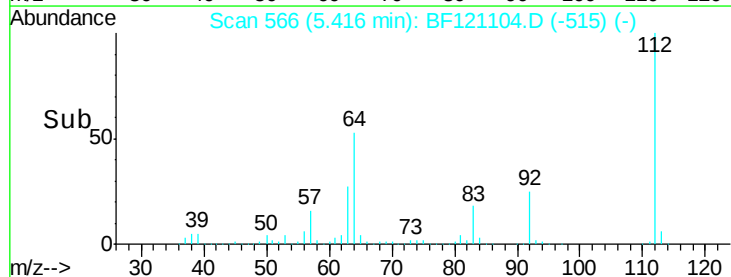
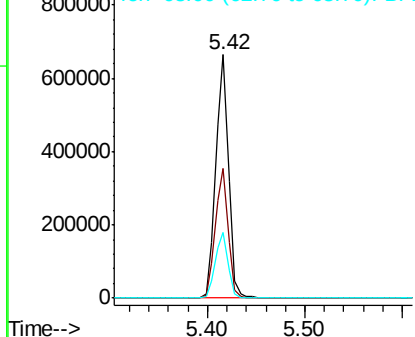
#5

2-Fluorophenol  
Concen: 67.096 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.00 min  
Lab File: BF121104.D  
Acq: 29 Jul 2020 16:21

Tgt Ion:112 Resp: 601569  
Ion Ratio Lower Upper  
112 100  
64 53.4 43.9 65.9  
63 27.2 22.7 34.1



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: 64.084 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

Instrument :

BNA\_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

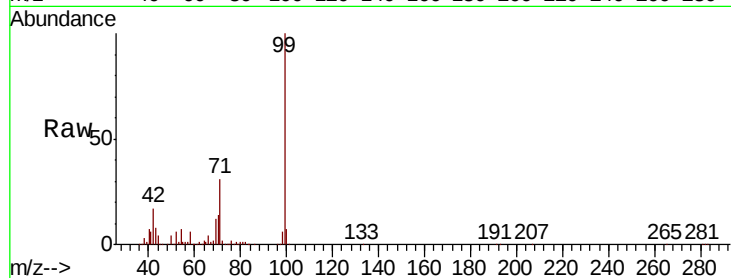
Tot Ion: 99 Resp: 742199

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

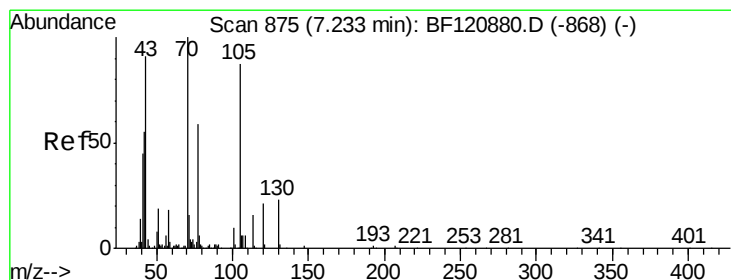
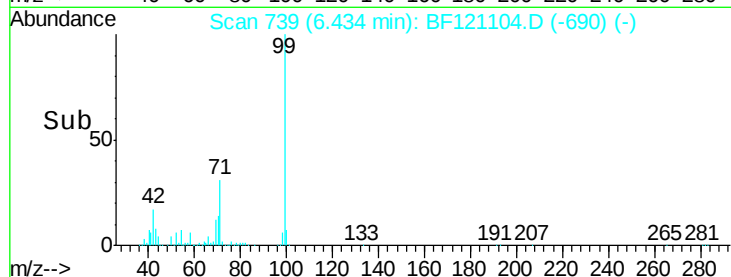
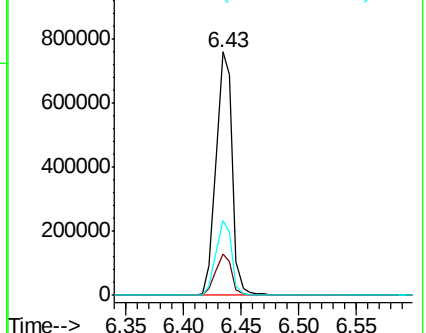
71 30.9 25.0 37.4



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: 9.824 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.14 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

Tgt Ion: 70 Resp: 64700

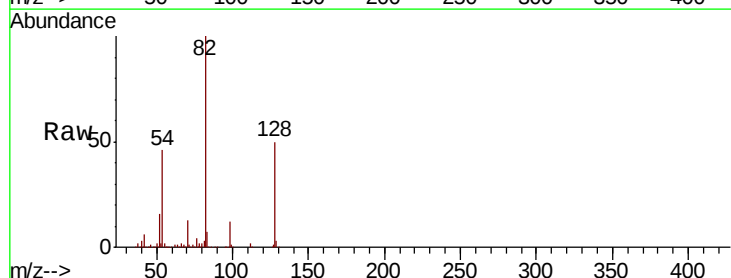
Ion Ratio Lower Upper

70 100

42 44.7 43.3 64.9

101 0.0 8.4 12.6#

130 2.6 18.7 28.1#

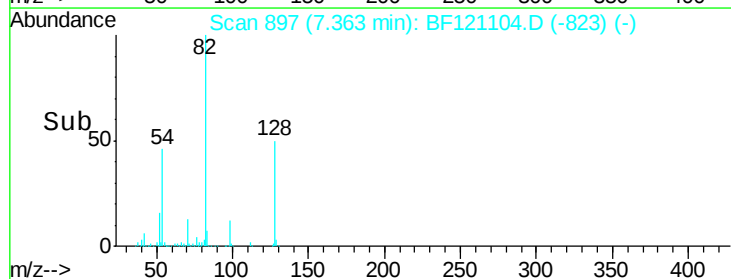
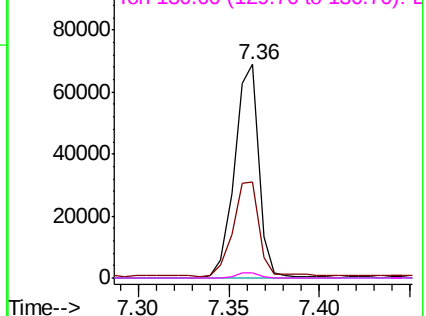


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

Instrument :

BNA\_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

Tot Ion:136 Resp: 554707

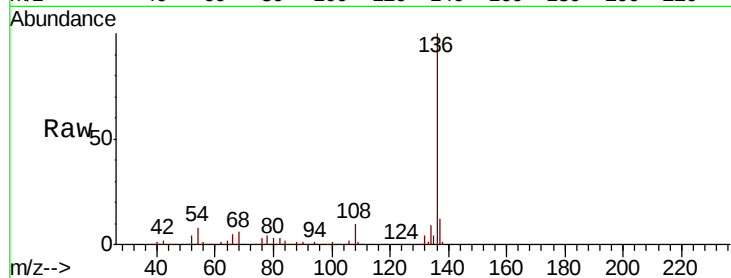
Ion Ratio Lower Upper

136 100

137 11.5 9.0 13.4

54 7.6 6.1 9.1

68 6.0 5.0 7.6

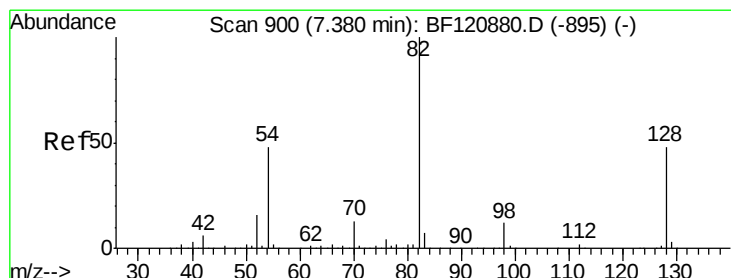
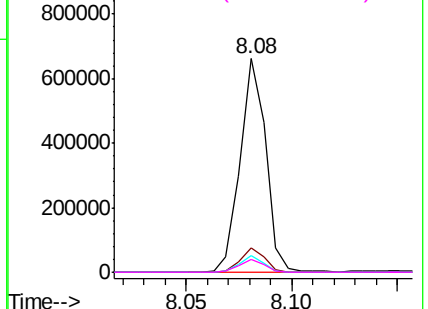
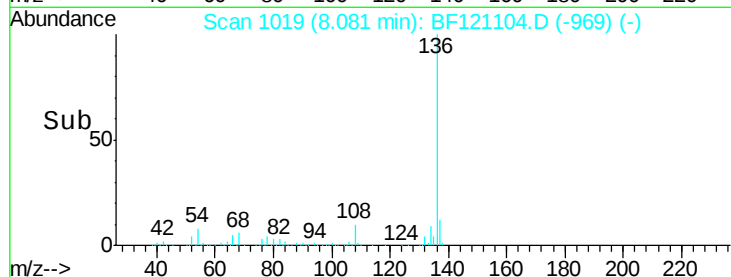


Abundance Ion 136.00 (135.70 to 136.70): E

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: 51.074 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

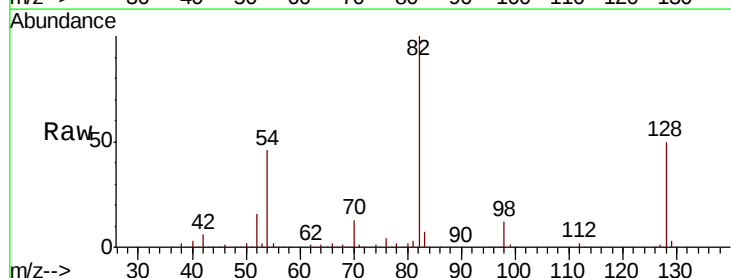
Tgt Ion: 82 Resp: 489626

Ion Ratio Lower Upper

82 100

128 50.5 39.2 58.8

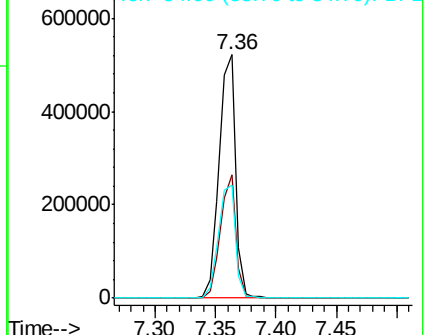
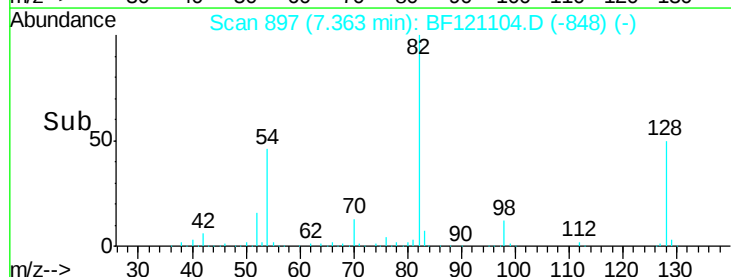
54 46.5 37.8 56.8



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 25.301 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.27 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

Instrument :

BNA\_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

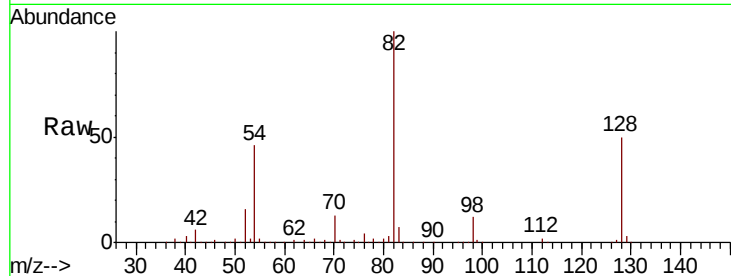
Tot Ion: 82 Resp: 484079

Ion Ratio Lower Upper

82 100

95 0.1 5.5 8.3#

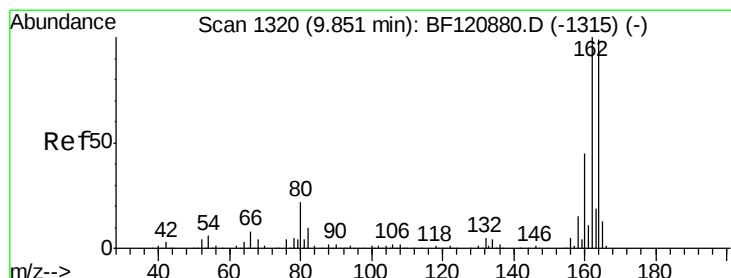
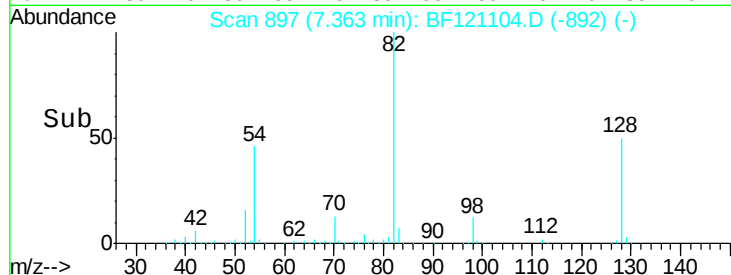
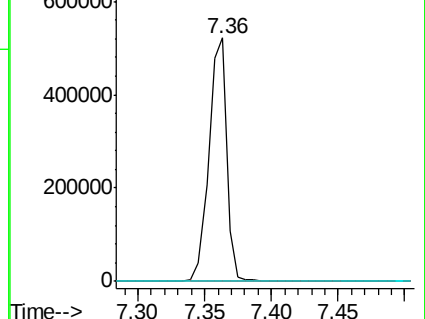
138 0.0 16.2 24.2#



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: 9.83 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

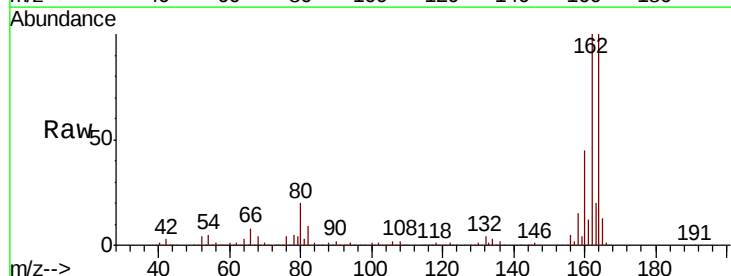
Tgt Ion: 164 Resp: 300883

Ion Ratio Lower Upper

164 100

162 99.7 82.2 123.2

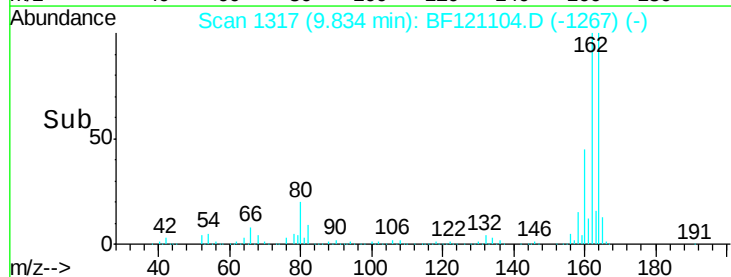
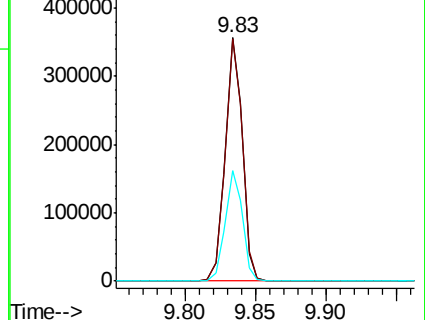
160 45.2 37.2 55.8



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: 68.704 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

Instrument :

BNA\_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

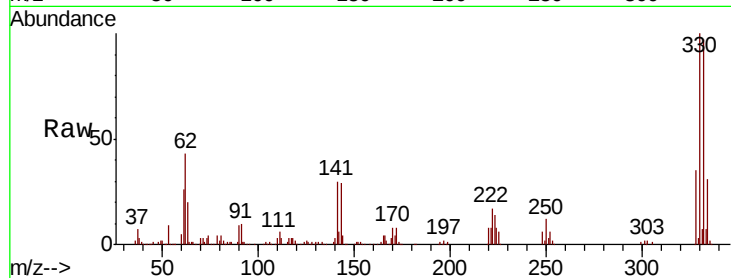
Tot Ion:330 Resp: 226274

Ion Ratio Lower Upper

330 100

332 96.2 76.1 114.1

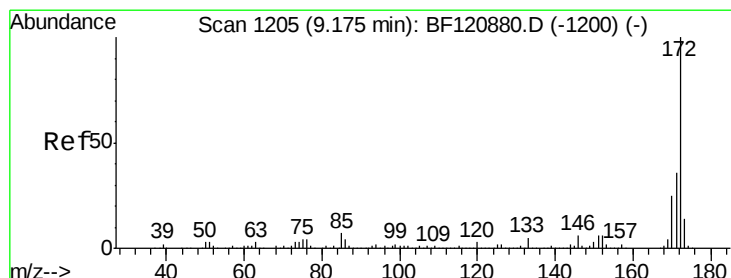
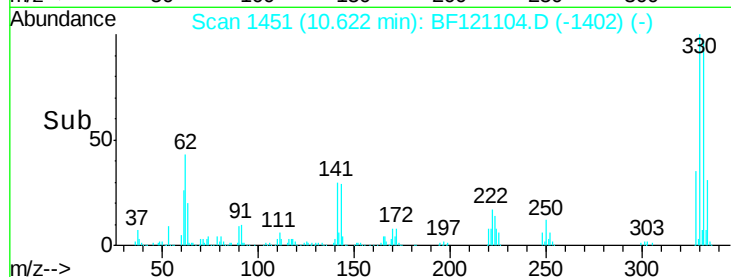
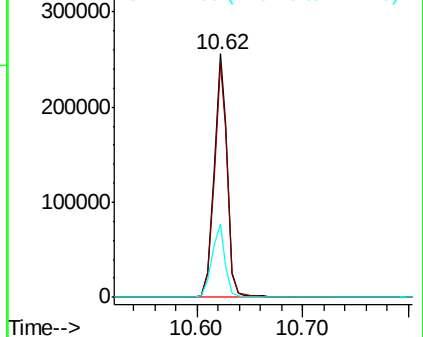
141 30.2 24.1 36.1



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: 46.972 ng

RT: 9.16 min Scan# 1202

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

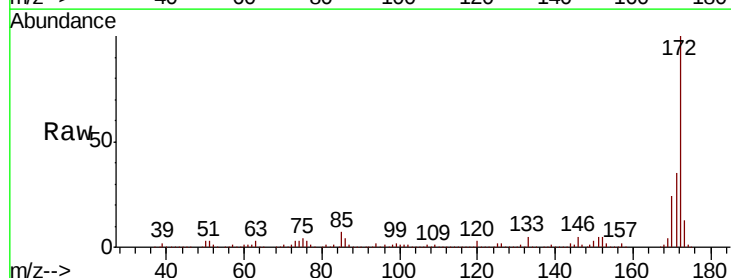
Tgt Ion:172 Resp: 946590

Ion Ratio Lower Upper

172 100

171 35.4 29.0 43.4

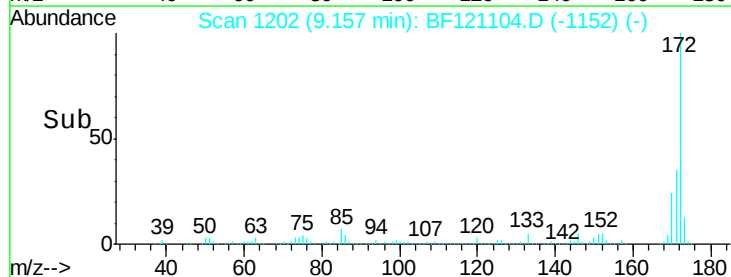
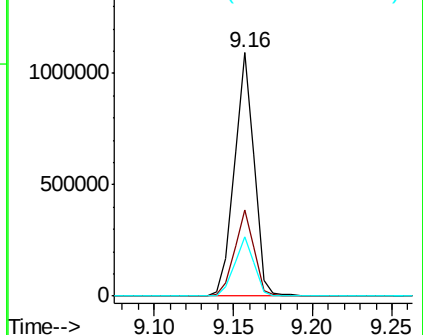
170 24.1 19.6 29.4

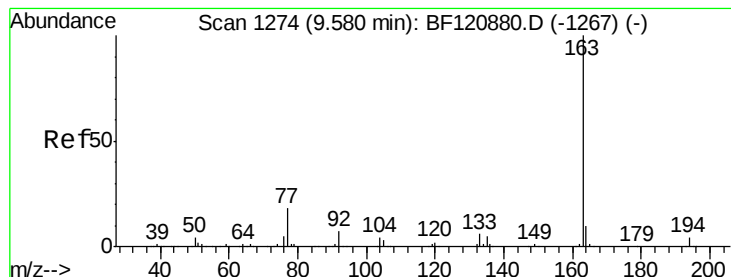


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 4.855 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF121104.D

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CARLSTADT-TOPSOIL-2020

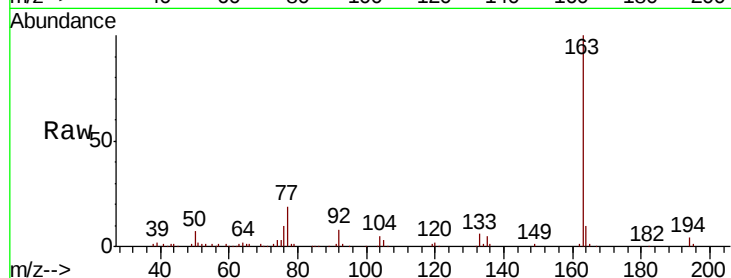
Tot Ion:163 Resp: 105393

Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.4

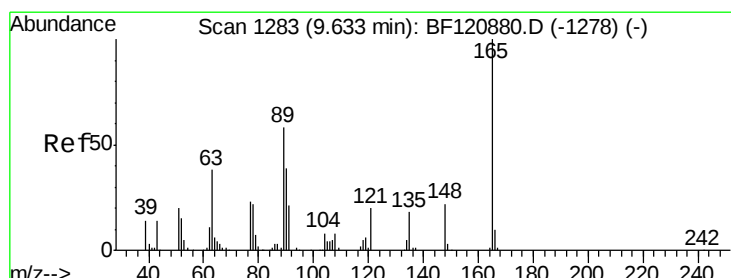
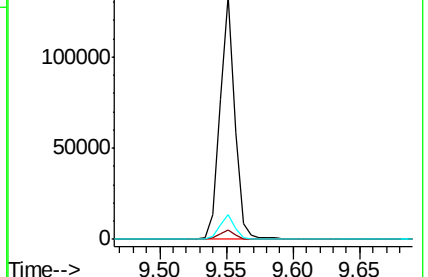
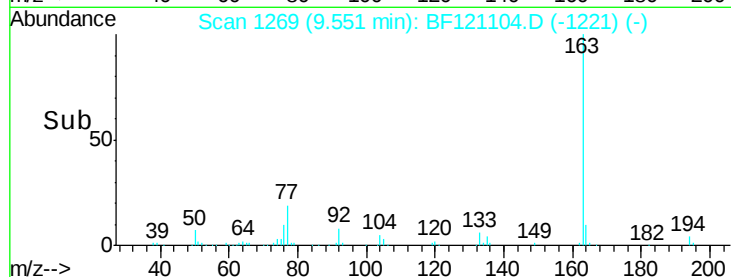
164 10.4 8.4 12.6



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: 8.347 ng

RT: 9.83 min Scan# 1317

Delta R.T. 0.21 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

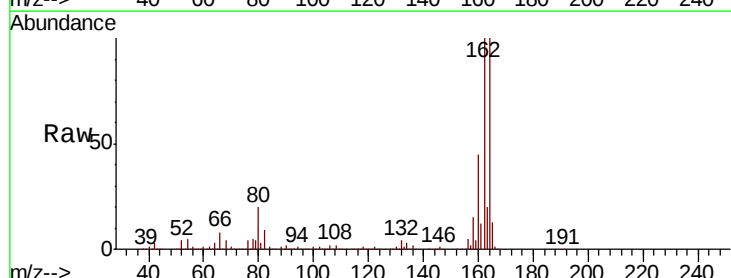
Tgt Ion:165 Resp: 38924

Ion Ratio Lower Upper

165 100

63 1.1 41.1 61.7#

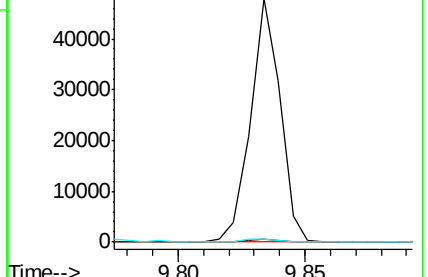
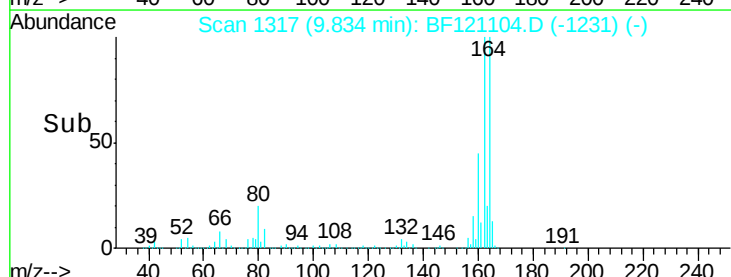
89 1.2 43.5 65.3#

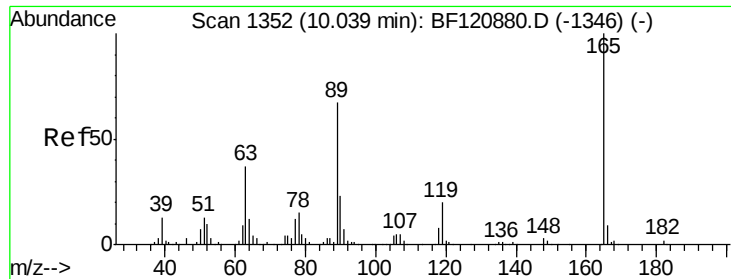


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

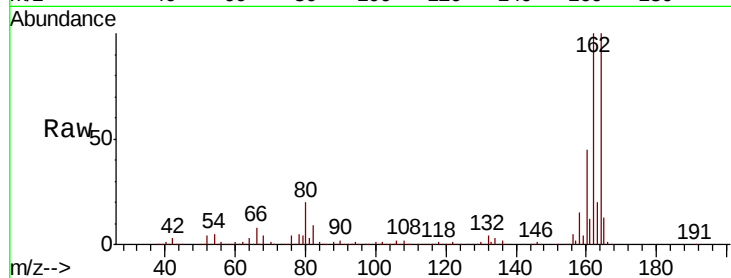




#57  
 2,4-Dinitrotoluene  
 Concen: 6.356 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.20 min  
 Lab File: BF121104.D  
 Acq: 29 Jul 2020 16:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CARLSTADT-TOPSOIL-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 29.8  | 44.8# |
| 89      | 1.2   | 50.3  | 75.5# |
| 182     | 0.0   | 2.1   | 3.1#  |

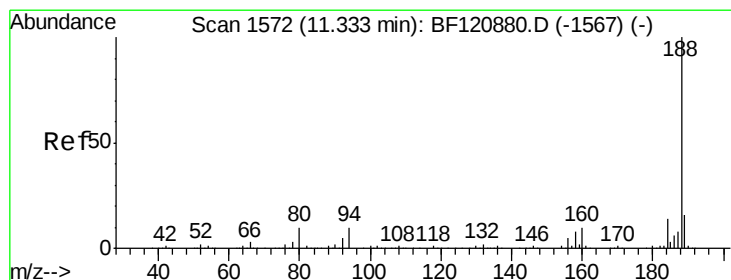
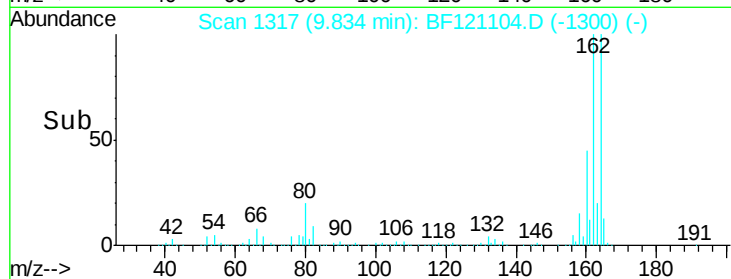
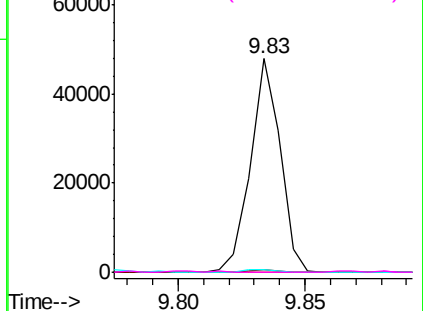


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

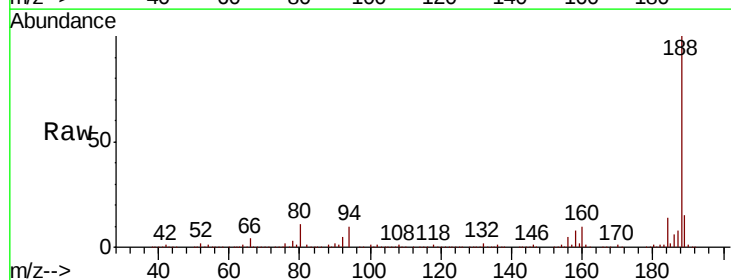
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1569  
 Delta R.T. -0.01 min  
 Lab File: BF121104.D  
 Acq: 29 Jul 2020 16:21

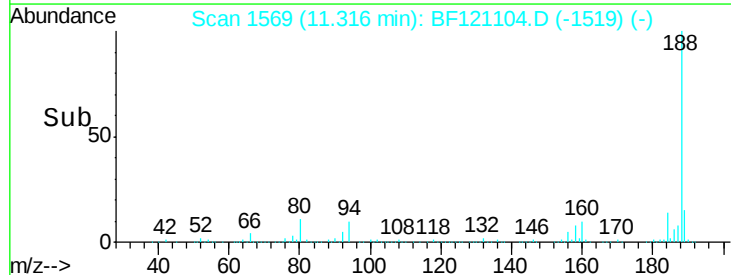
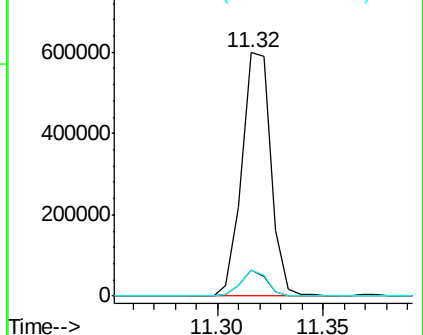
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.5  | 8.0   | 12.0  |
| 80      | 10.6  | 8.3   | 12.5  |

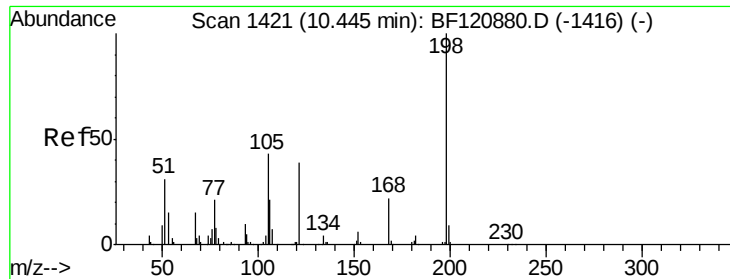


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

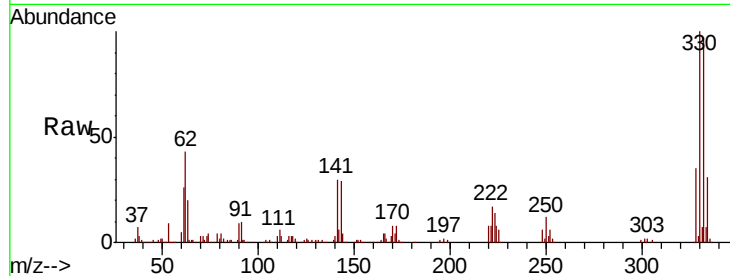




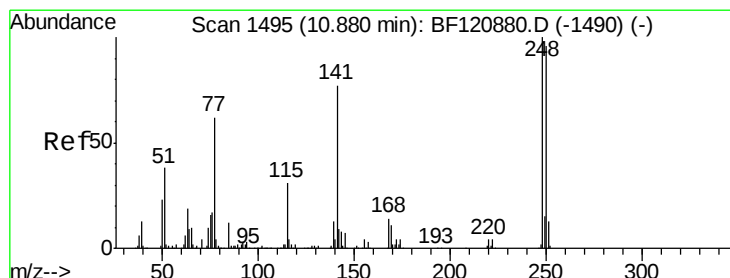
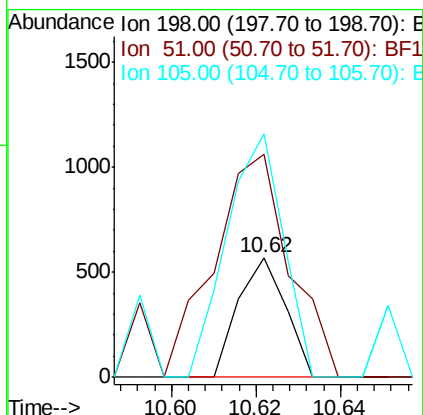
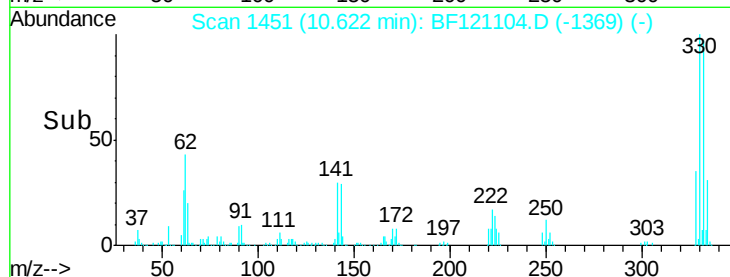
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 3.965 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. 0.18 min  
 Lab File: BF121104.D  
 Acq: 29 Jul 2020 16:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CARLSTADT-TOPSOIL-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 186.3 | 23.4  | 63.4# |
| 105     | 203.7 | 23.7  | 63.7# |

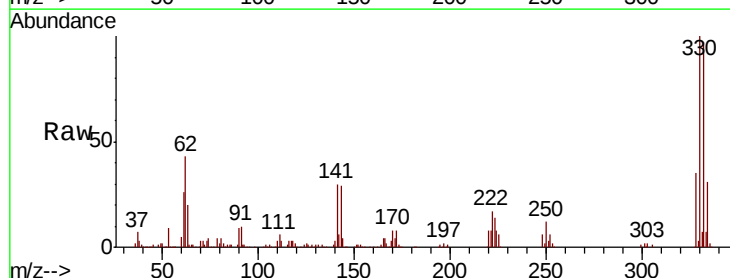


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

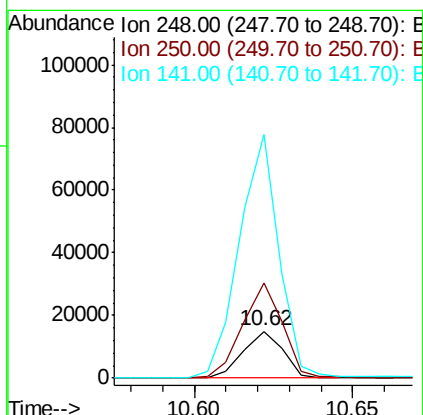
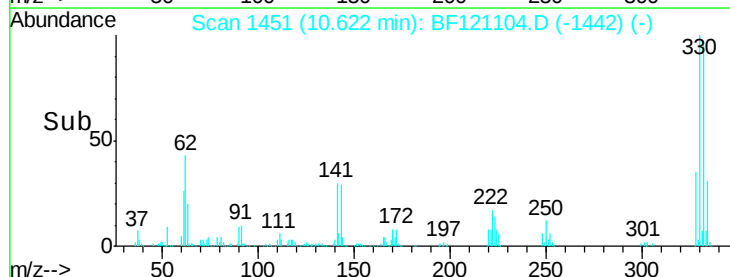


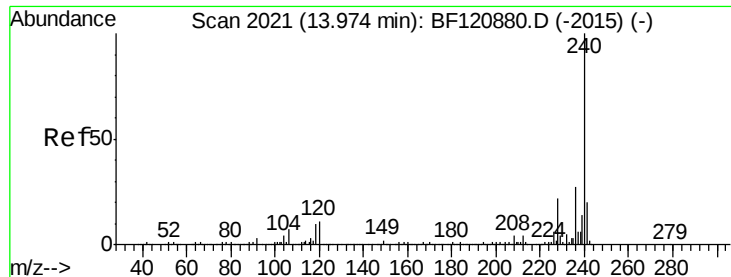
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.021 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. -0.25 min  
 Lab File: BF121104.D  
 Acq: 29 Jul 2020 16:21

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 204.4 | 77.0  | 115.6# |
| 141     | 523.7 | 56.6  | 85.0#  |



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: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

Instrument :

BNA\_F

ClientSampleId :

CARLSTADT-TOPSOIL-2020

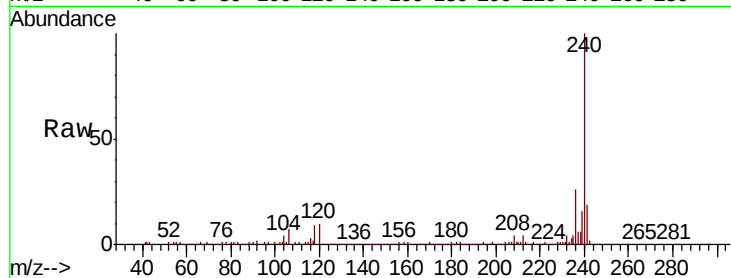
Tot Ion:240 Resp: 432054

Ion Ratio Lower Upper

240 100

120 10.1 9.3 13.9

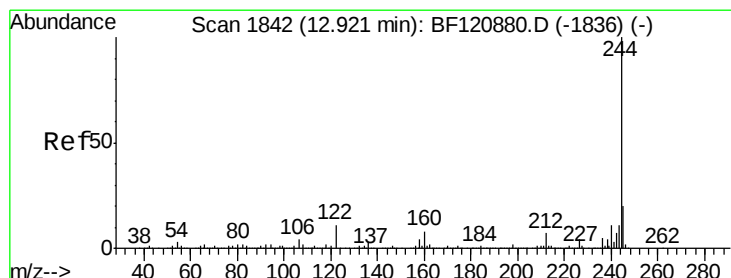
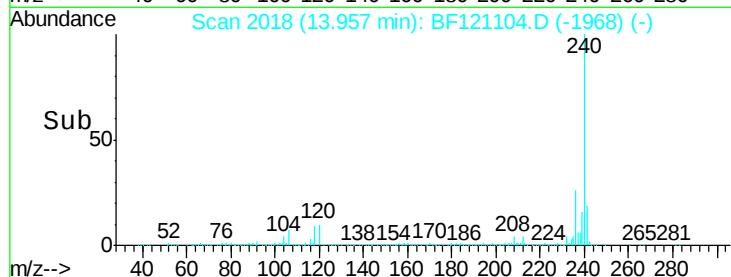
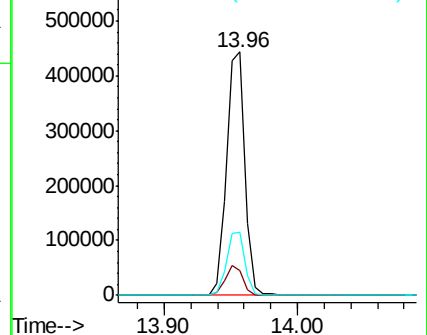
236 26.2 21.1 31.7



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: 50.325 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF121104.D

Acq: 29 Jul 2020 16:21

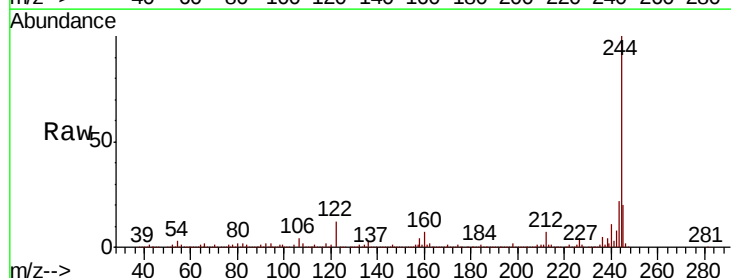
Tgt Ion:244 Resp: 1000240

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

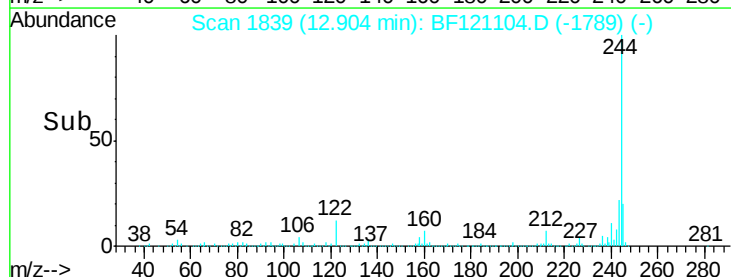
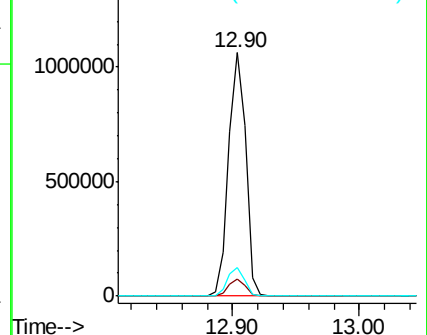
122 11.8 8.3 12.5

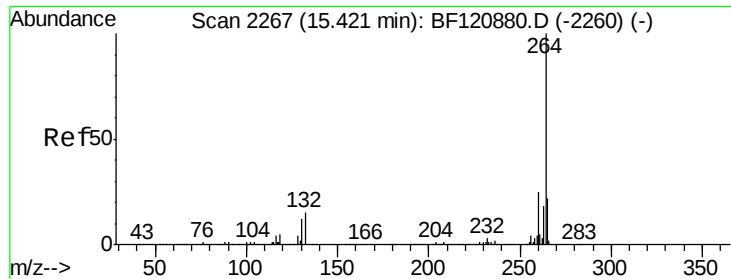


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

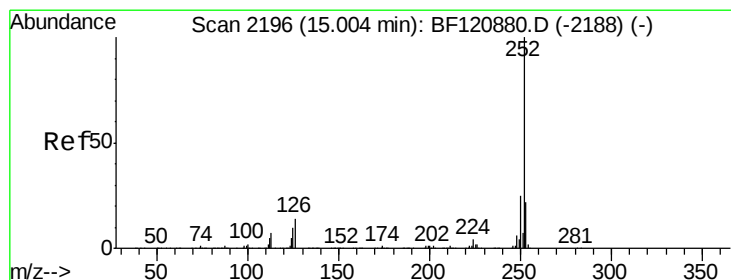
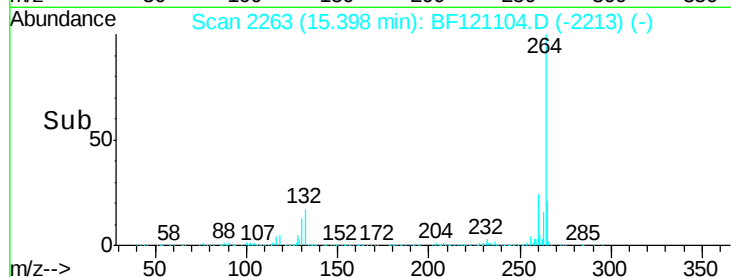
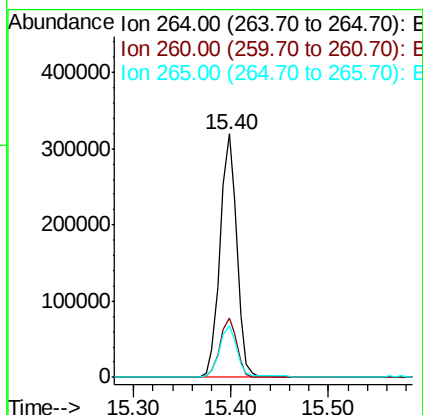
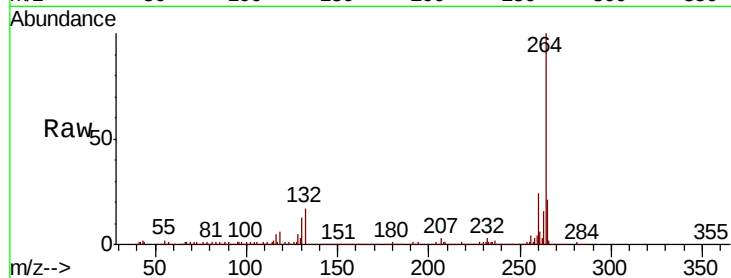




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.40 min Scan# 2263  
Delta R.T. -0.01 min  
Lab File: BF121104.D  
Acq: 29 Jul 2020 16:21

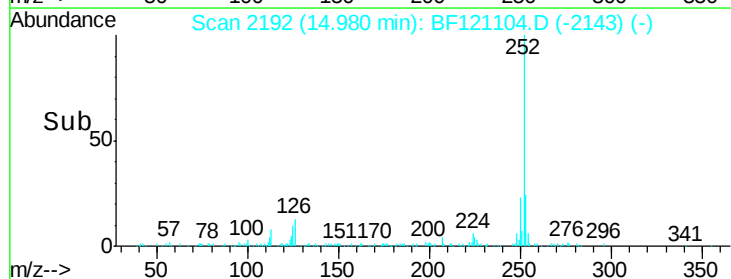
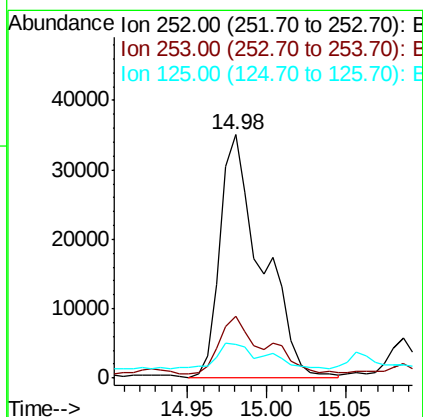
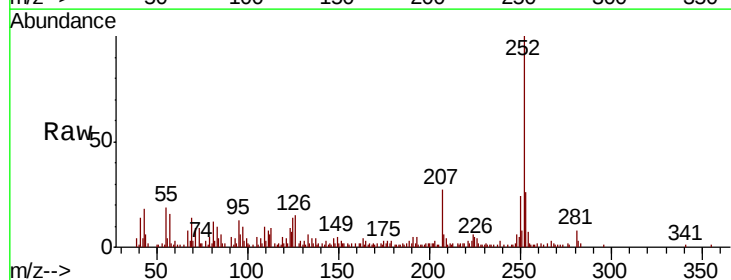
Instrument :  
BNA\_F  
ClientSampleId :  
CARLSTADT-TOPSOIL-2020

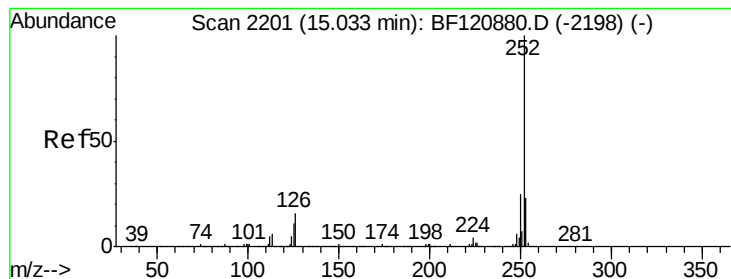
Tot Ion:264 Resp: 383573  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.9 29.9  
265 21.1 17.8 26.8



#88  
Benzo(b)fluoranthene  
Concen: 2.775 ng  
RT: 14.98 min Scan# 2192  
Delta R.T. -0.01 min  
Lab File: BF121104.D  
Acq: 29 Jul 2020 16:21

Tgt Ion:252 Resp: 64343  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.9 26.9  
125 13.7 8.1 12.1#





#89  
 Benzo(k)fluoranthene  
 Concen: 3.043 ng  
 RT: 14.98 min Scan# 2192  
 Delta R.T. -0.04 min  
 Lab File: BF121104.D  
 Acq: 29 Jul 2020 16:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CARLSTADT-TOPSOIL-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 18.1  | 27.1  |
| 125     | 13.7  | 8.0   | 12.0  |

