

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090420\  
 Data File : BG046536.D  
 Acq On : 4 Sep 2020 11:41  
 Operator : CG/JU  
 Sample : L3887-02  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-PILE

Quant Time: Sep 04 13:30:32 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 15:06:53 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.93  | 152  | 73262    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.73 | 136  | 275716   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.56 | 164  | 170246   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.30 | 188  | 386728   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.55 | 240  | 453304   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 24.65 | 264  | 465752   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.52  | 112 | 469178  | 113.43 | ng | 0.00 |
| 7) Phenol-d6             | 7.11  | 99  | 541137  | 92.29  | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.08  | 82  | 430188  | 89.18  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.05 | 330 | 264050  | 114.47 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.18 | 172 | 994295  | 89.16  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.92 | 244 | 1594206 | 74.85  | ng | 0.00 |

## Target Compounds

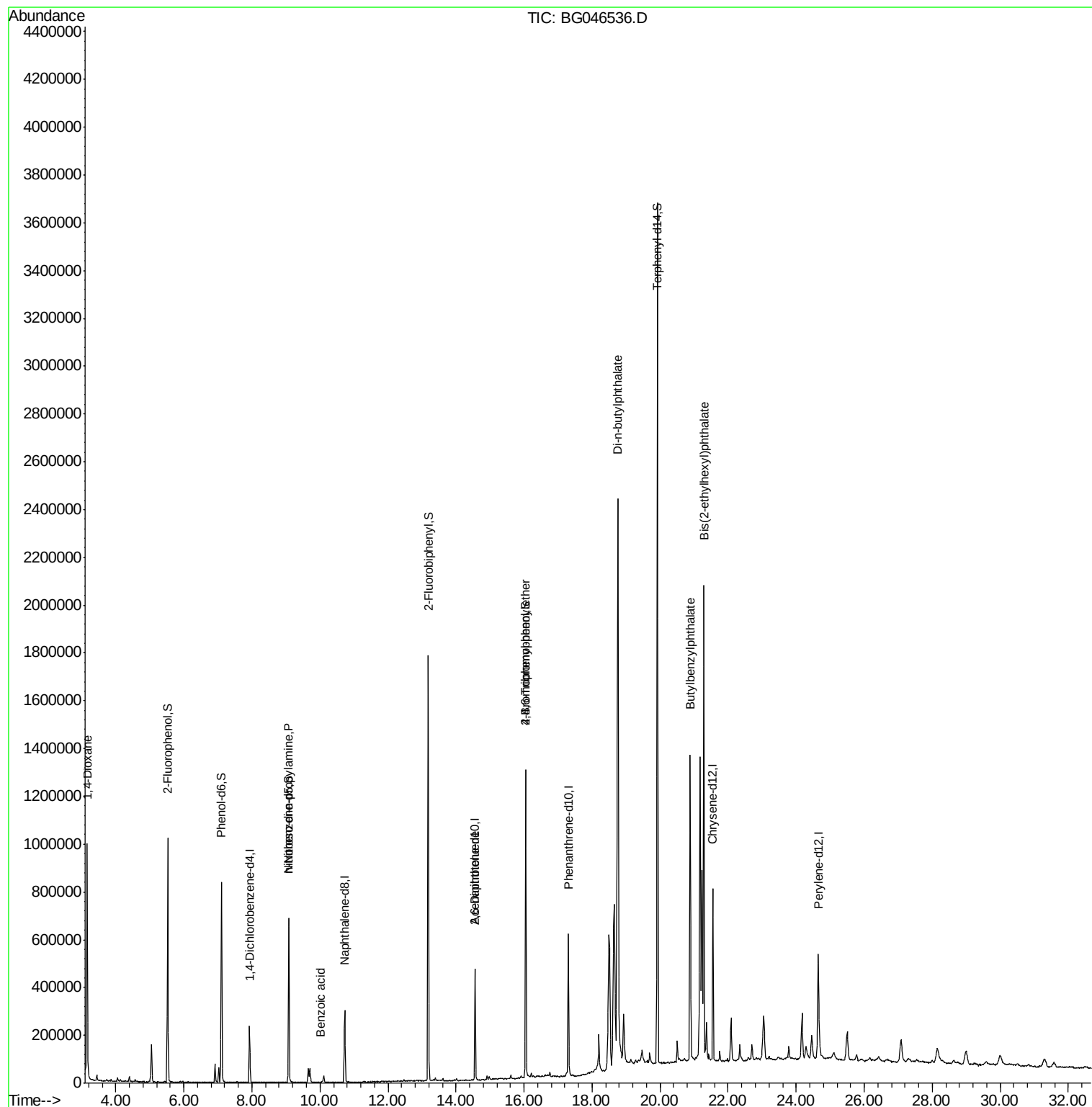
|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.16  | 88  | 9693    | 5.633  | ng | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.08  | 70  | 56030   | 15.975 | ng | # 78   |
| 32) Benzoic acid               | 10.02 | 122 | 1510    | 5.171  | ng | # 63   |
| 51) 2,6-Dinitrotoluene         | 14.56 | 165 | 22370   | 7.705  | ng | # 35   |
| 67) 4-Bromophenyl-phenylether  | 16.05 | 248 | 20315   | 4.503  | ng | # 1    |
| 74) Di-n-butylphthalate        | 18.76 | 149 | 1700143 | 80.970 | ng | # 93   |
| 80) Butylbenzylphthalate       | 20.89 | 149 | 235306  | 20.899 | ng | # 29   |
| 84) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 921437  | 59.969 | ng | # 49   |

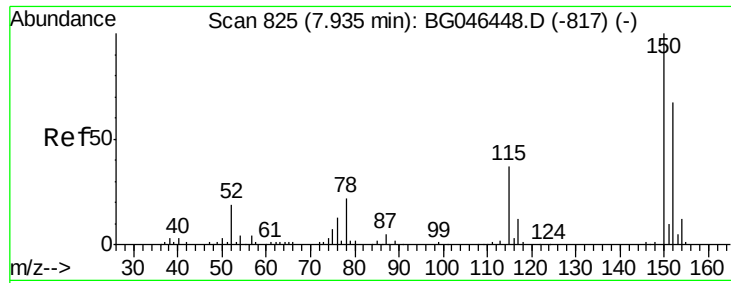
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 02 15:06:53 2020  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.93 min Scan# 824

Delta R.T. -0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

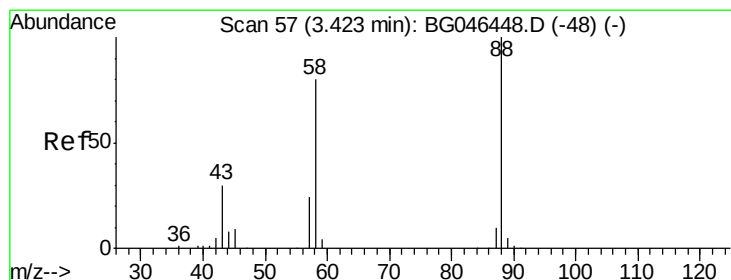
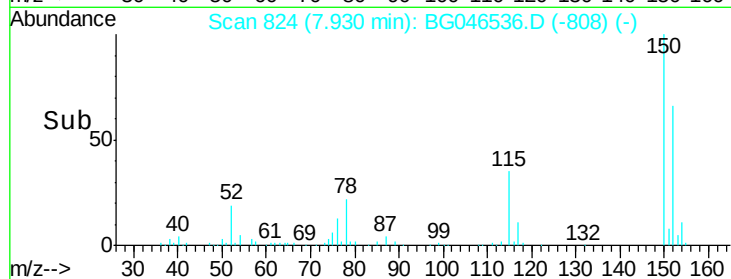
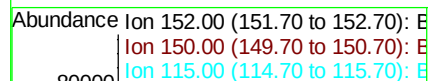
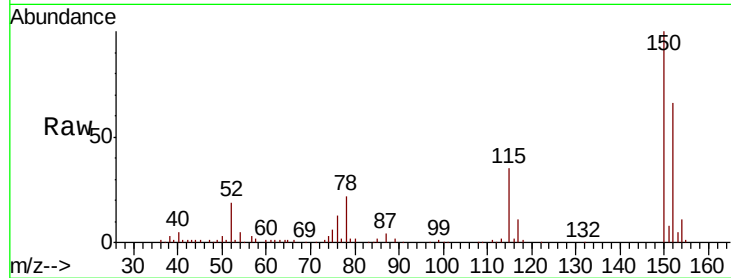
Tot Ion:152 Resp: 73262

Ion Ratio Lower Upper

152 100

150 150.8 119.5 179.3

115 53.1 44.3 66.5



#2

1,4-Dioxane

Concen: 5.633 ng

RT: 3.16 min Scan# 12

Delta R.T. -0.26 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

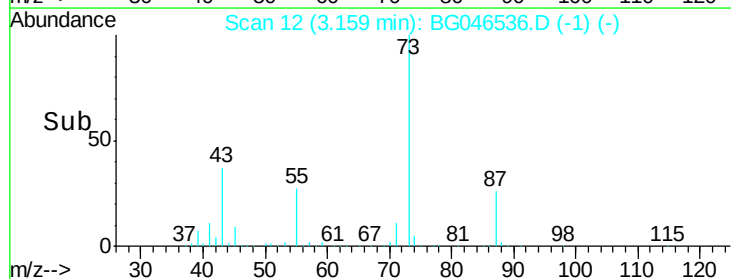
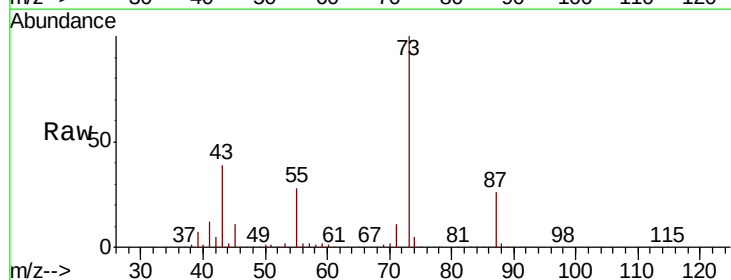
Tgt Ion: 88 Resp: 9693

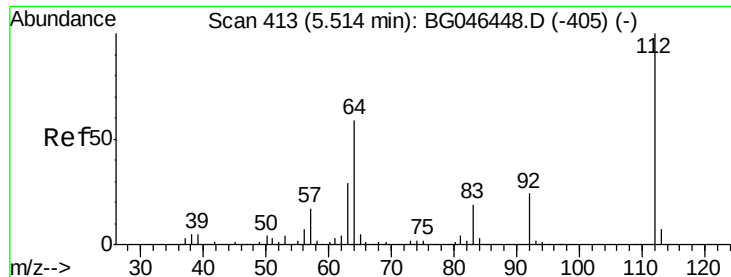
Ion Ratio Lower Upper

88 100

58 33.3 61.4 92.2#

43 2531.2 21.6 32.4#





#5

2-Fluorophenol

Concen: 113.429 ng

RT: 5.52 min Scan# 414

Delta R.T. 0.01 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

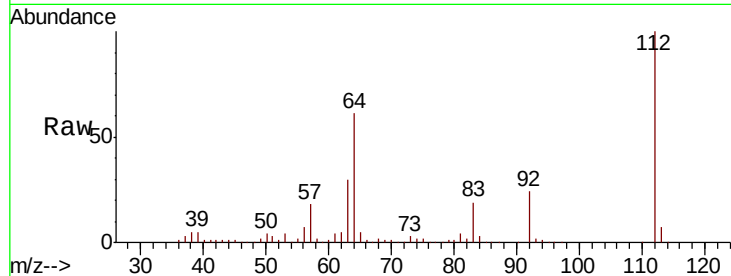
Tot Ion:112 Resp: 469178

Ion Ratio Lower Upper

112 100

64 60.6 47.0 70.6

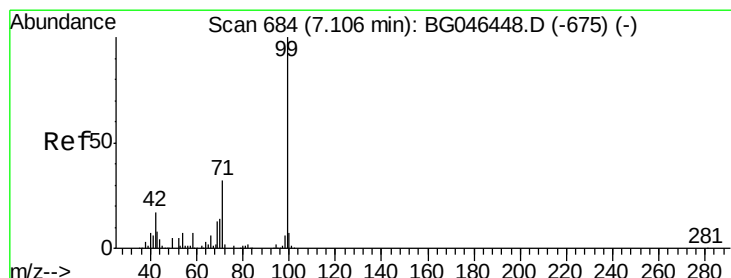
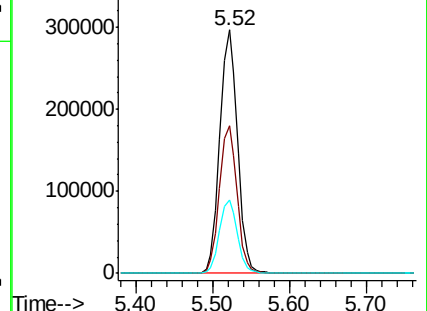
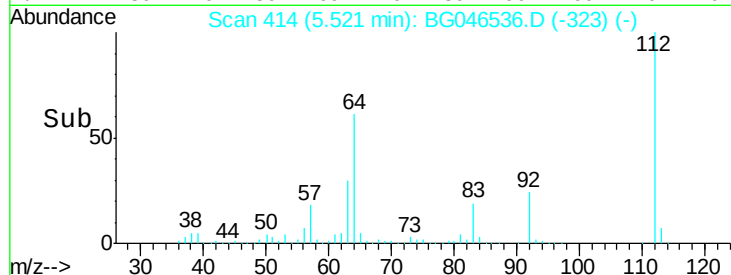
63 30.2 23.5 35.3



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 92.286 ng

RT: 7.11 min Scan# 684

Delta R.T. 0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

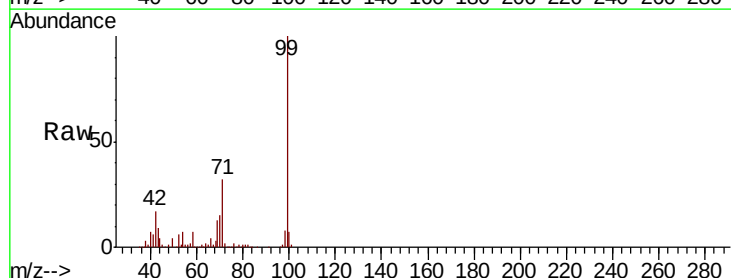
Tgt Ion: 99 Resp: 541137

Ion Ratio Lower Upper

99 100

42 16.9 13.3 19.9

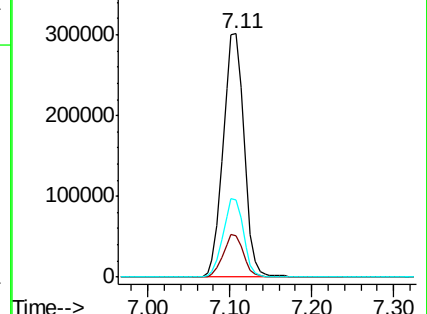
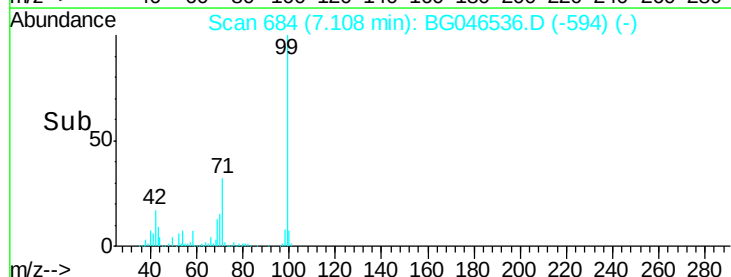
71 31.9 25.3 37.9

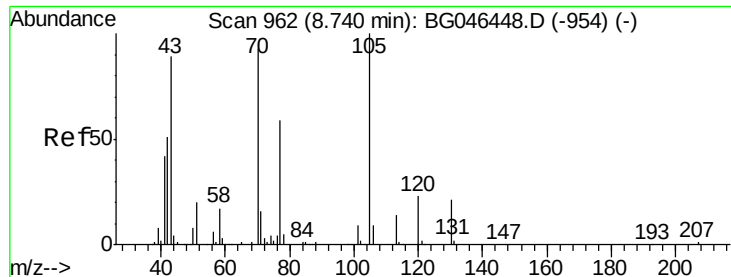


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

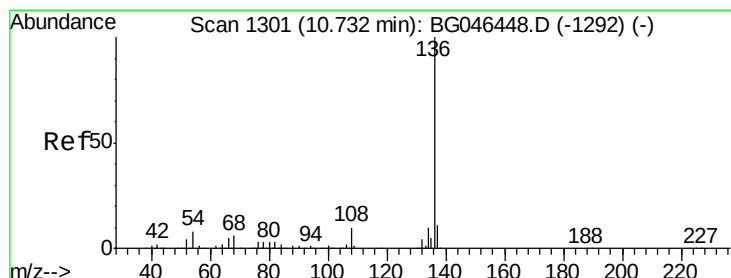
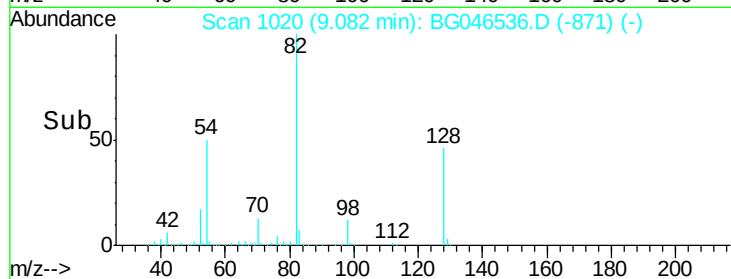
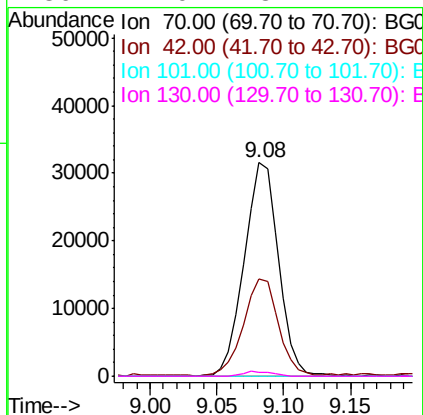
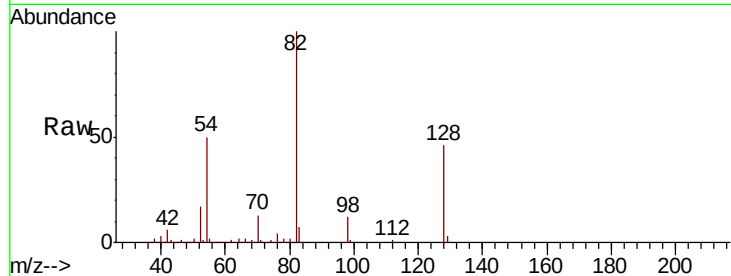




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.975 ng  
RT: 9.08 min Scan# 1020  
Delta R.T. 0.35 min  
Lab File: BG046536.D  
Acq: 4 Sep 2020 11:41

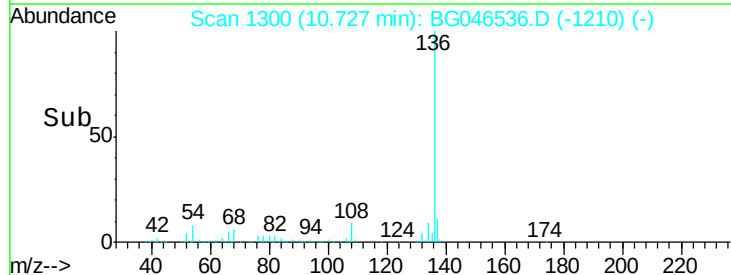
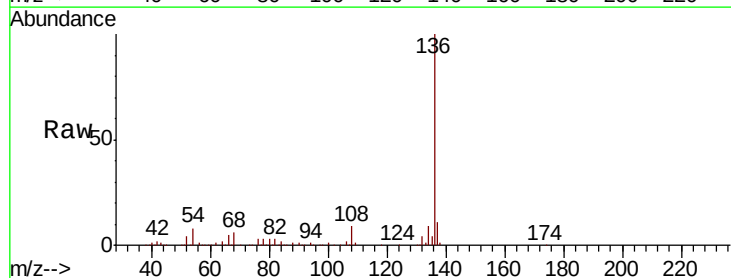
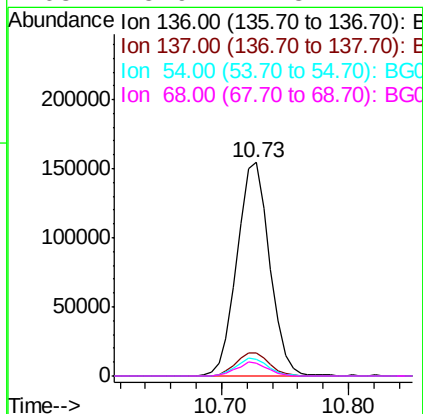
Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-PILE

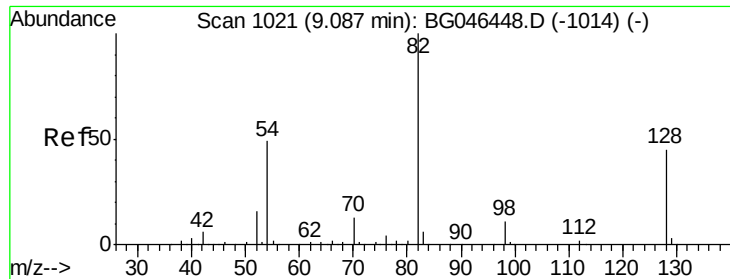
Tot Ion: 70 Resp: 56030  
Ion Ratio Lower Upper  
70 100  
42 45.7 44.2 66.2  
101 0.0 7.8 11.8#  
130 2.0 18.2 27.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.73 min Scan# 1300  
Delta R.T. 0.00 min  
Lab File: BG046536.D  
Acq: 4 Sep 2020 11:41

Tgt Ion:136 Resp: 275716  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 8.0 6.1 9.1  
68 5.9 4.8 7.2

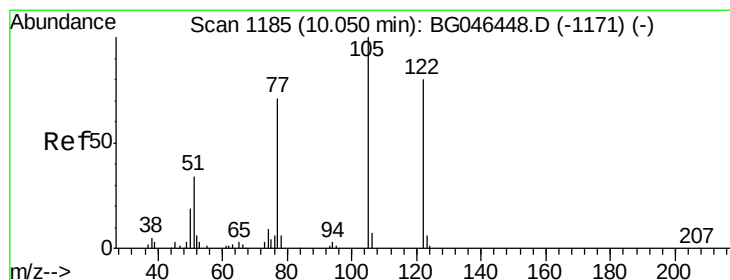
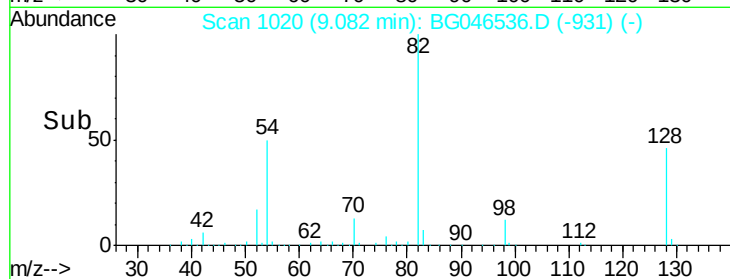
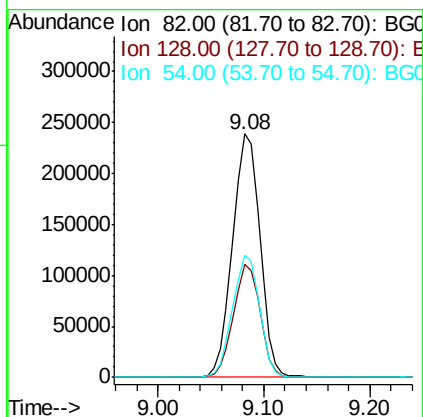
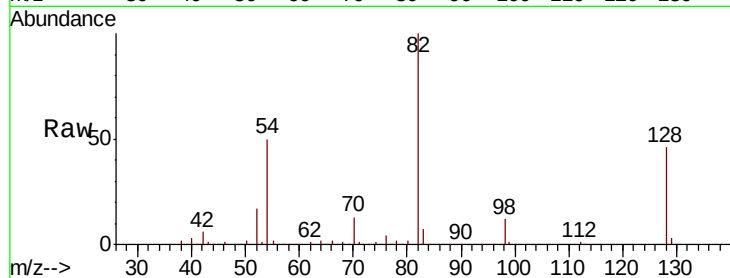




#23  
 Nitrobenzene-d5  
 Concen: 89.177 ng  
 RT: 9.08 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: BG046536.D  
 Acq: 4 Sep 2020 11:41

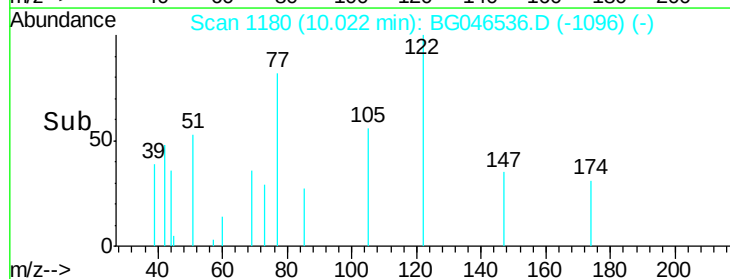
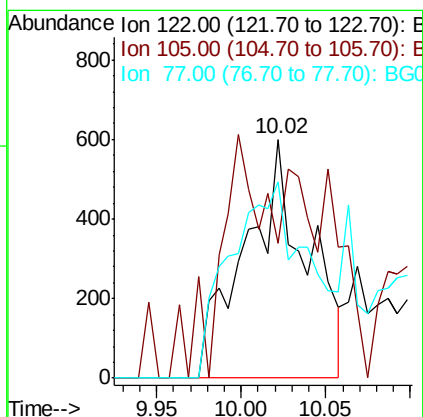
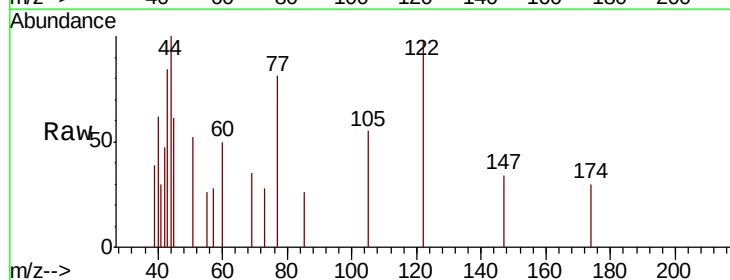
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONCRETE-PILE

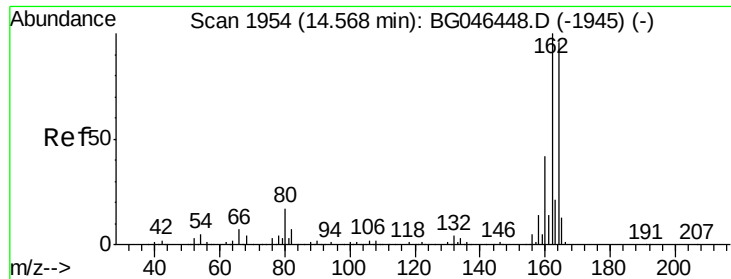
Tot Ion: 82 Resp: 430188  
 Ion Ratio Lower Upper  
 82 100  
 128 46.5 35.7 53.5  
 54 49.9 39.4 59.0



#32  
 Benzoic acid  
 Concen: 5.171 ng  
 RT: 10.02 min Scan# 1180  
 Delta R.T. -0.03 min  
 Lab File: BG046536.D  
 Acq: 4 Sep 2020 11:41

Tgt Ion:122 Resp: 1510  
 Ion Ratio Lower Upper  
 122 100  
 105 56.2 102.5 142.5#  
 77 82.2 68.2 108.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.56 min Scan# 1952

Delta R.T. -0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

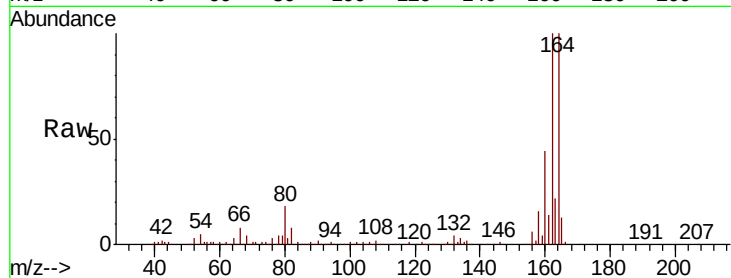
Tot Ion:164 Resp: 170246

Ion Ratio Lower Upper

164 100

162 99.8 83.3 124.9

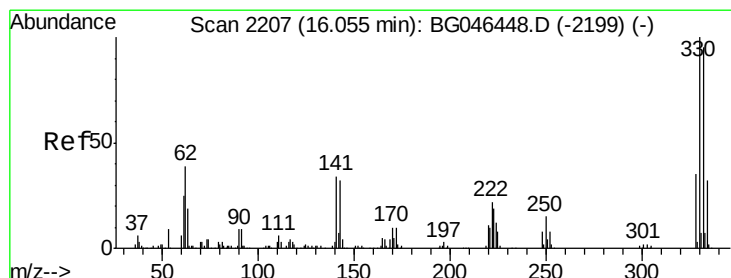
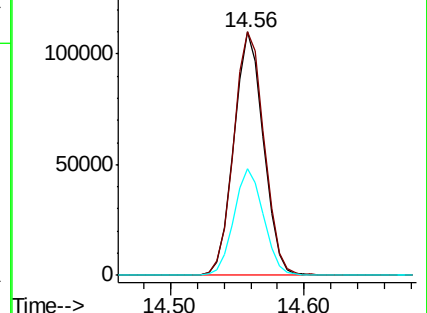
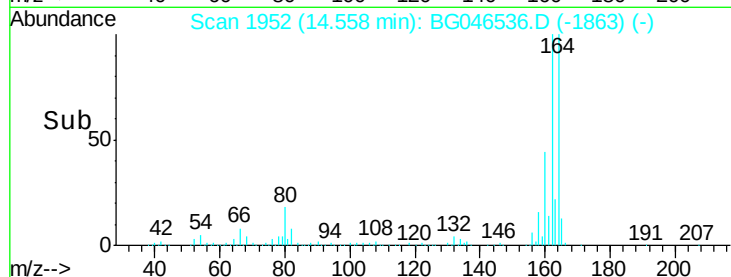
160 43.9 35.0 52.6



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: 114.470 ng

RT: 16.05 min Scan# 2206

Delta R.T. 0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

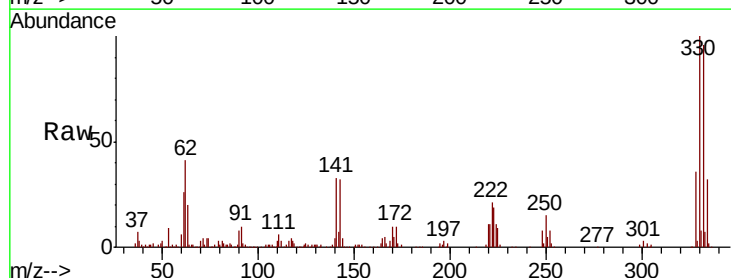
Tgt Ion:330 Resp: 264050

Ion Ratio Lower Upper

330 100

332 97.4 76.1 114.1

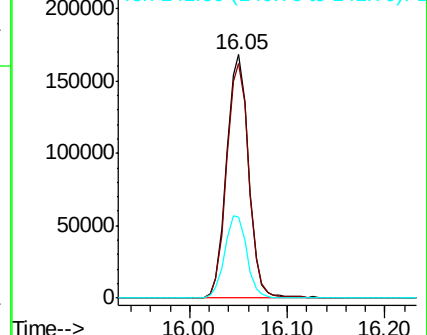
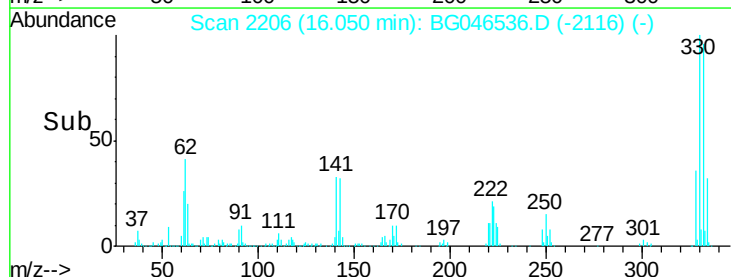
141 34.3 26.1 39.1

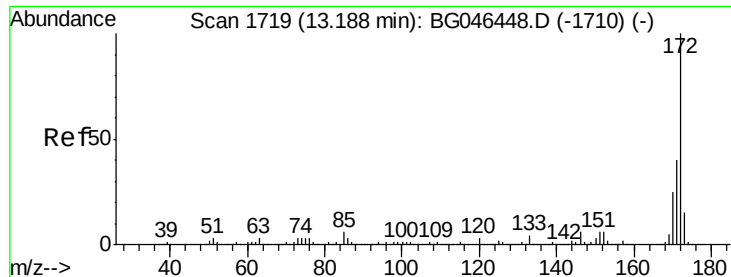


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

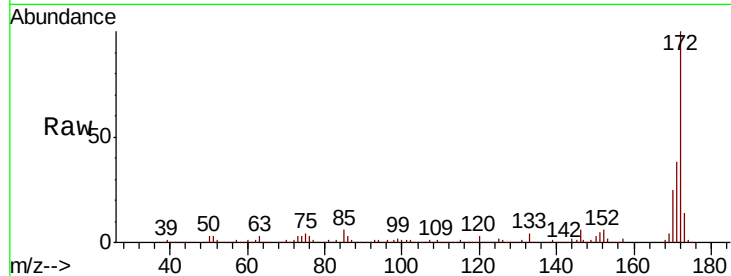




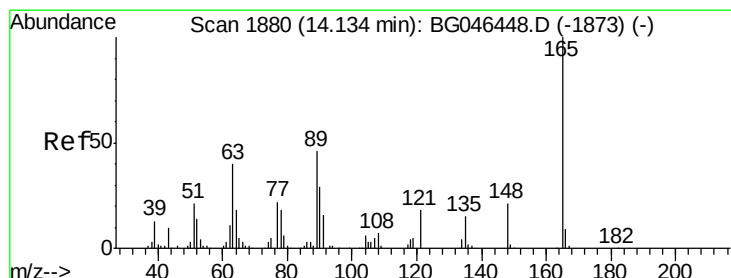
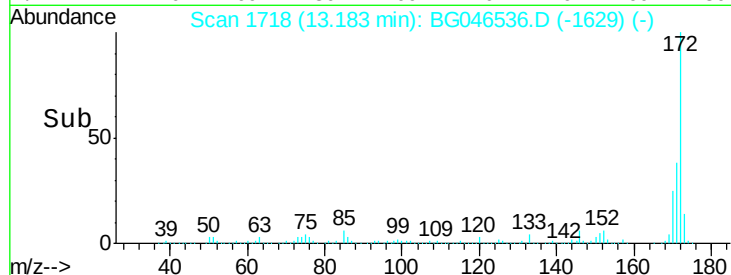
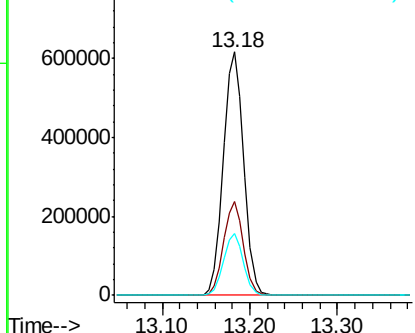
#45  
2-Fluorobiphenyl  
Concen: 89.156 ng  
RT: 13.18 min Scan# 1718  
Delta R.T. -0.00 min  
Lab File: BG046536.D  
Acq: 4 Sep 2020 11:41

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ClientSampleId :  
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Tot Ion:172 Resp: 994295  
Ion Ratio Lower Upper  
172 100  
171 38.3 31.8 47.6  
170 25.4 20.3 30.5

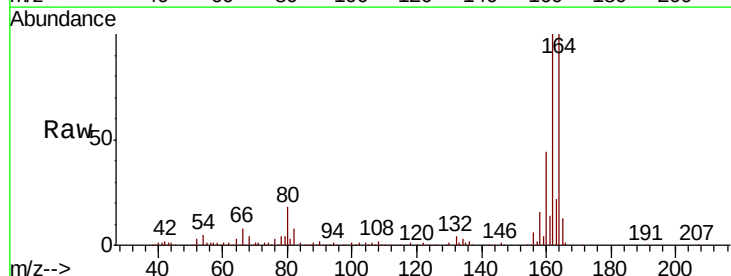


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

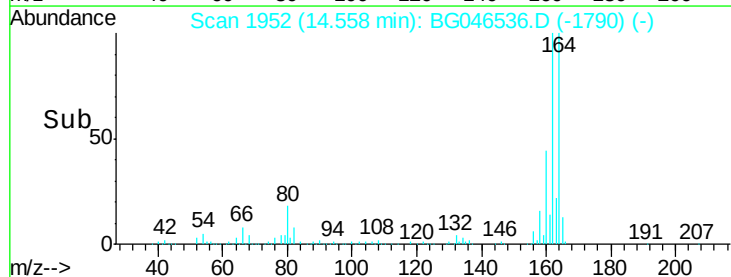
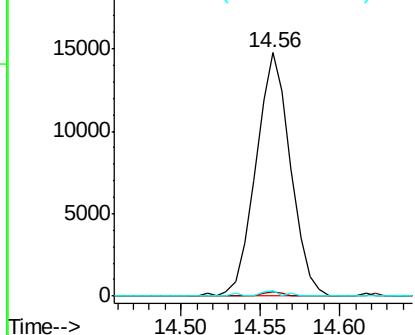


#51  
2,6-Dinitrotoluene  
Concen: 7.705 ng  
RT: 14.56 min Scan# 1952  
Delta R.T. 0.42 min  
Lab File: BG046536.D  
Acq: 4 Sep 2020 11:41

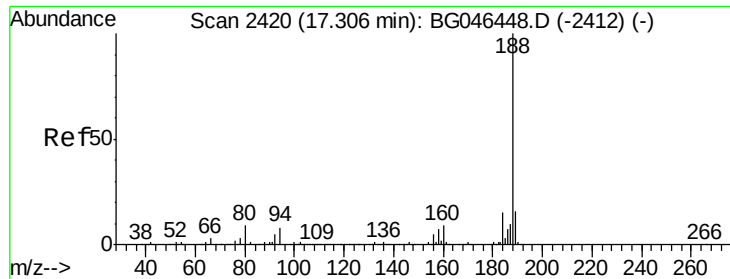
Tgt Ion:165 Resp: 22370  
Ion Ratio Lower Upper  
165 100  
63 1.5 34.2 51.4#  
89 2.5 37.0 55.4#



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



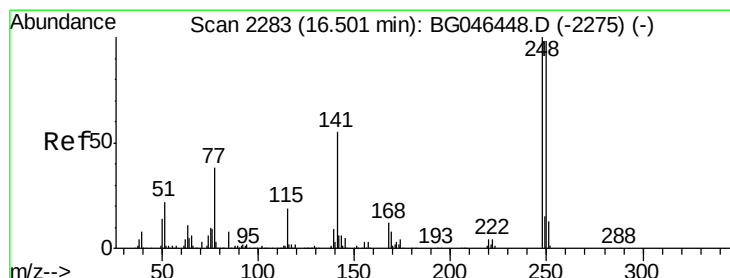
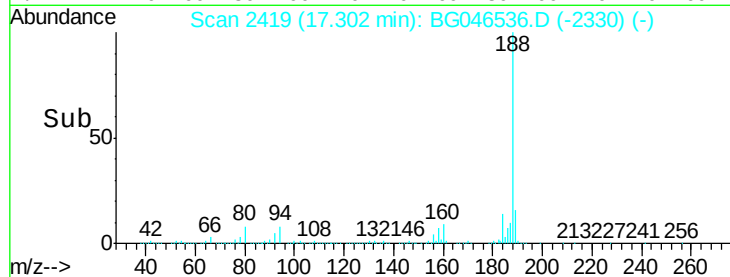
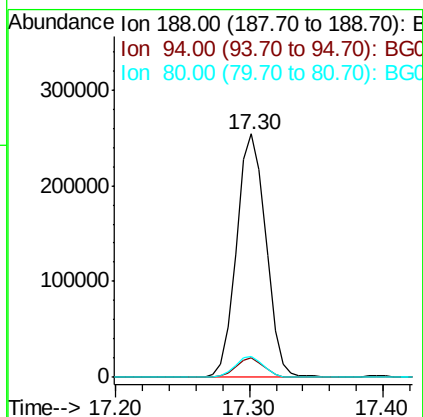
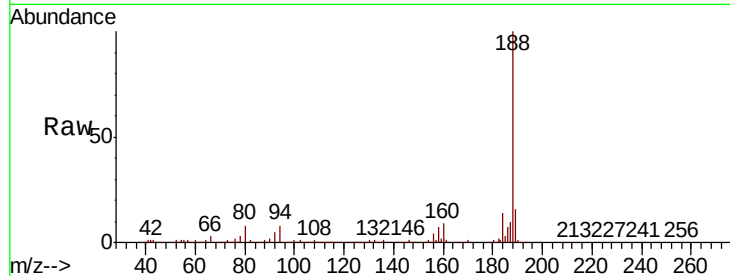




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.30 min Scan# 2419  
Delta R.T. -0.00 min  
Lab File: BG046536.D  
Acq: 4 Sep 2020 11:41

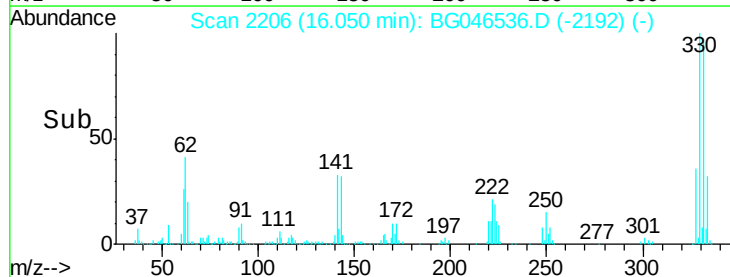
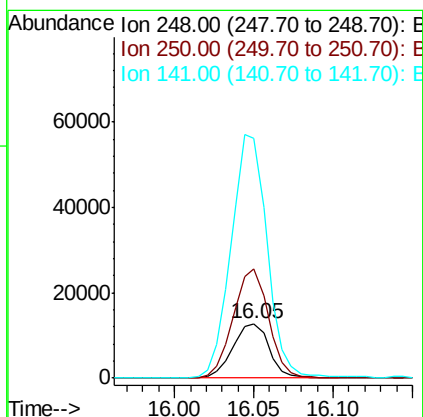
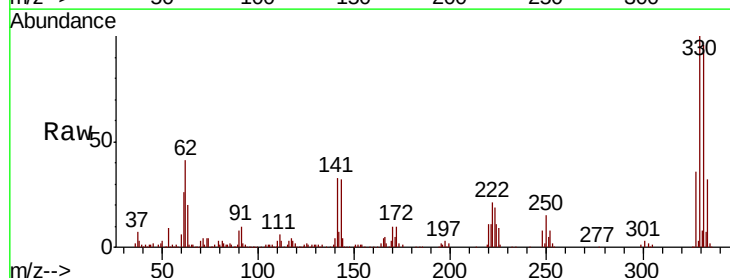
Instrument :  
BNA\_G  
ClientSampleId :  
CONCRETE-PILE

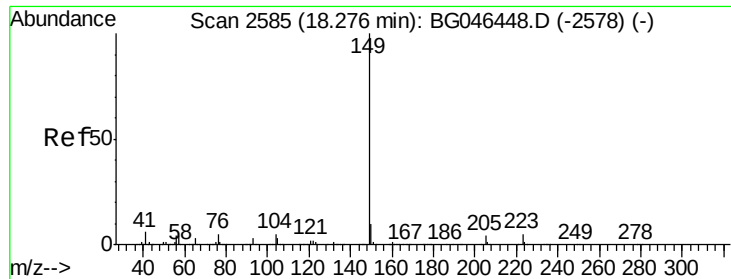
Tot Ion:188 Resp: 386728  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.3 9.5  
80 8.4 6.9 10.3



#67  
4-Bromophenyl-phenylether  
Concen: 4.503 ng  
RT: 16.05 min Scan# 2206  
Delta R.T. -0.45 min  
Lab File: BG046536.D  
Acq: 4 Sep 2020 11:41

Tgt Ion:248 Resp: 20315  
Ion Ratio Lower Upper  
248 100  
250 200.2 78.6 118.0#  
141 438.4 43.9 65.9#





#74

Di-n-butylphthalate

Concen: 80.970 ng

RT: 18.76 min Scan# 2667

Delta R.T. 0.49 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

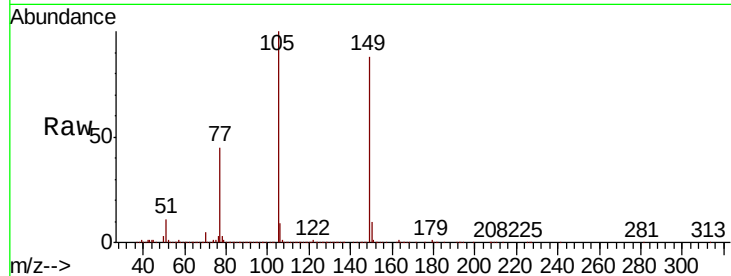
Tot Ion:149 Resp: 1700143

Ion Ratio Lower Upper

149 100

150 11.2 8.1 12.1

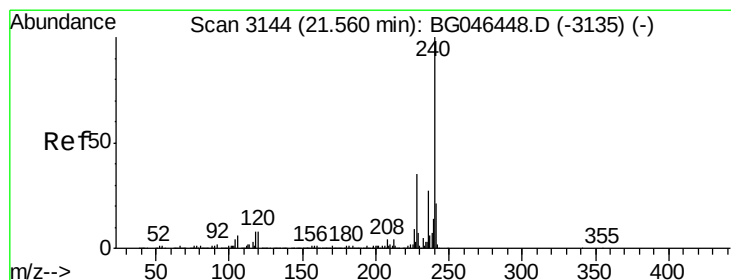
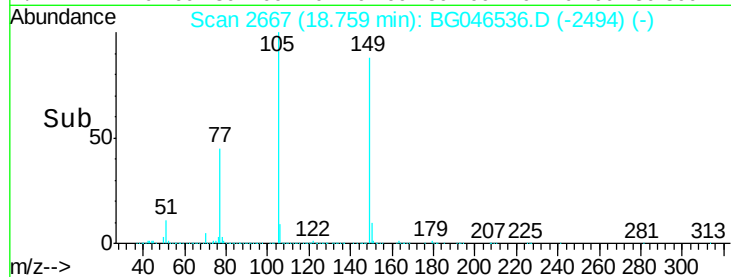
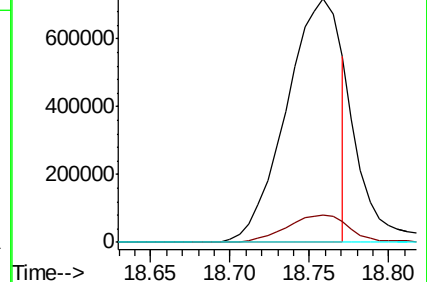
104 0.0 4.0 6.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.55 min Scan# 3142

Delta R.T. -0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

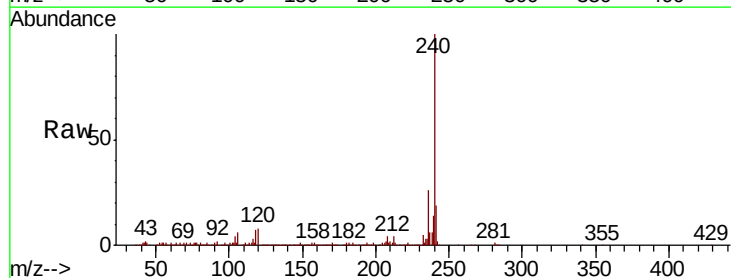
Tgt Ion:240 Resp: 453304

Ion Ratio Lower Upper

240 100

120 8.4 6.6 10.0

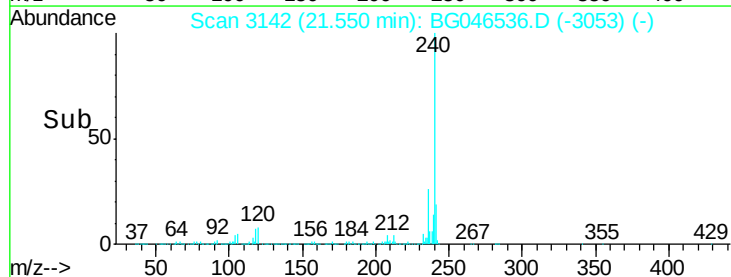
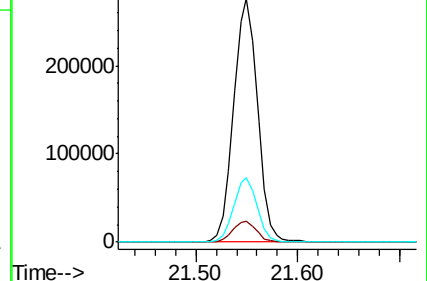
236 26.2 21.4 32.2

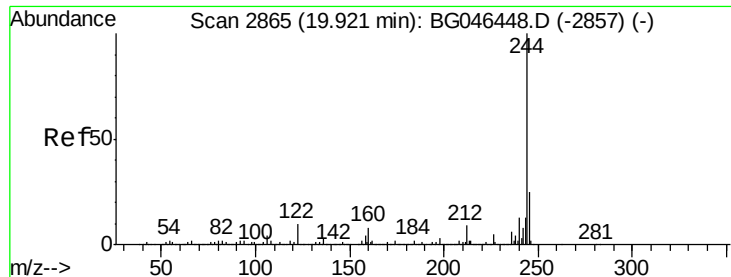


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 74.845 ng

RT: 19.92 min Scan# 2864

Delta R.T. -0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Instrument :

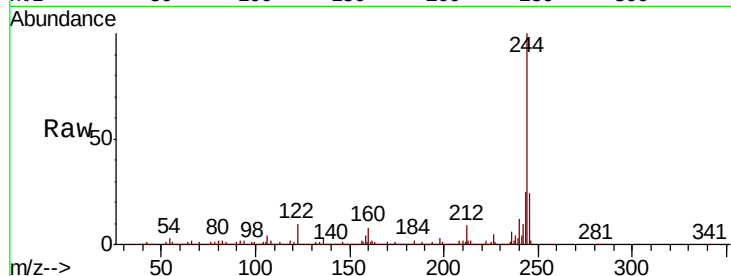
BNA\_G

ClientSampleId :

CONCRETE-PILE

Tot Ion:244 Resp: 1594206

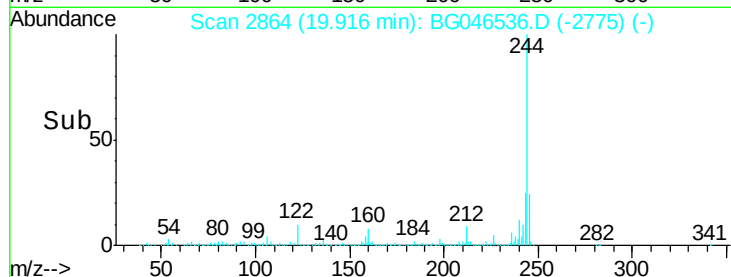
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.5   | 6.9   | 10.3  |
| 122 | 9.8   | 8.2   | 12.4  |



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



#80

Butylbenzylphthalate

Concen: 20.899 ng

RT: 20.89 min Scan# 3029

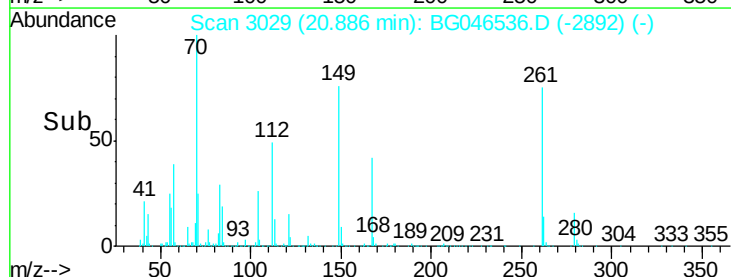
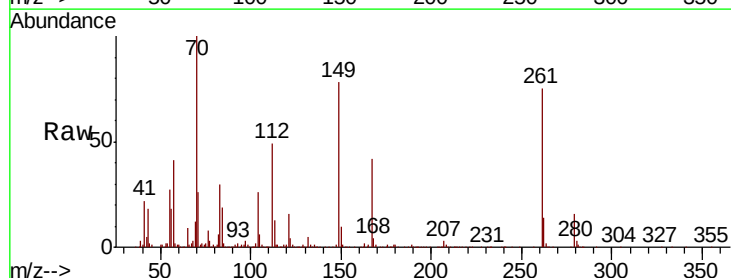
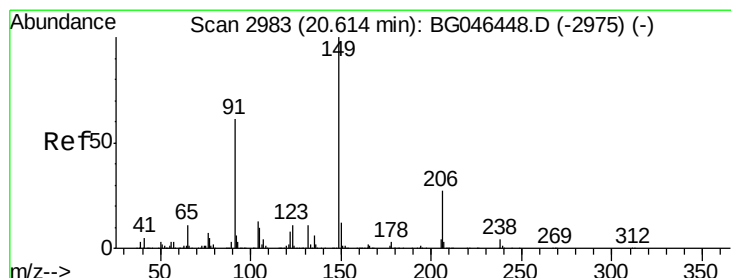
Delta R.T. 0.28 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Tgt Ion:149 Resp: 235306

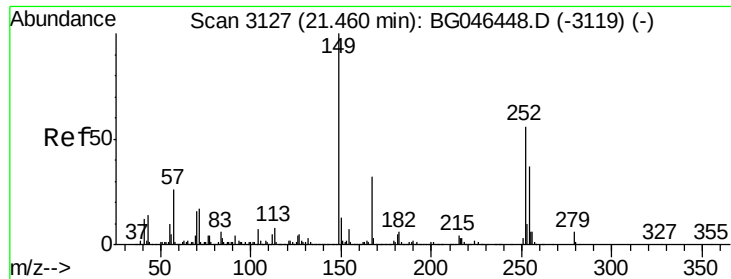
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 91  | 1.0   | 49.1  | 73.7# |
| 206 | 0.1   | 21.9  | 32.9# |



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 59.969 ng

RT: 21.29 min Scan# 3097

Delta R.T. -0.17 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

Instrument :

BNA\_G

ClientSampleId :

CONCRETE-PILE

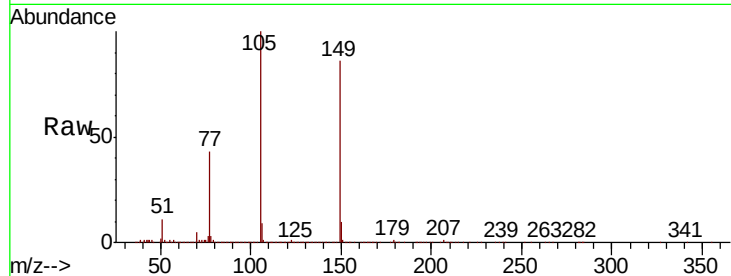
Tot Ion:149 Resp: 921437

Ion Ratio Lower Upper

149 100

167 0.1 25.4 38.2#

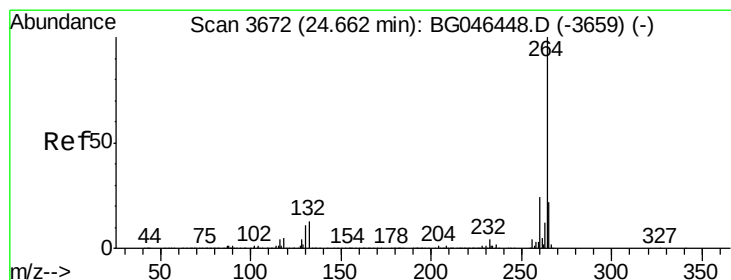
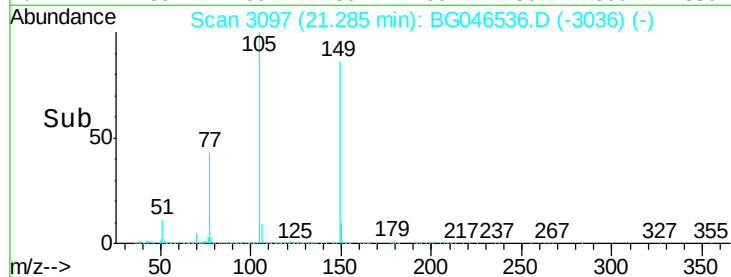
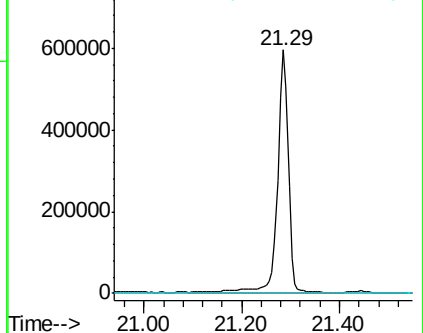
279 0.0 4.5 6.7#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.65 min Scan# 3670

Delta R.T. -0.00 min

Lab File: BG046536.D

Acq: 4 Sep 2020 11:41

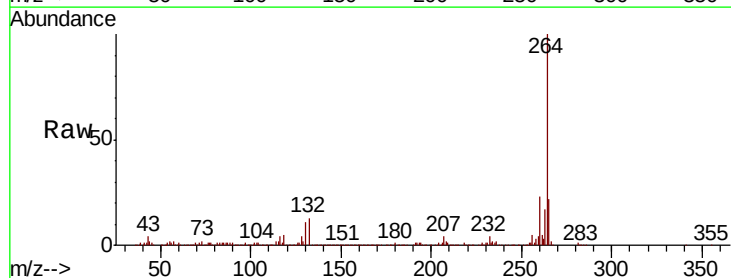
Tgt Ion:264 Resp: 465752

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

265 22.1 17.9 26.9



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

