

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081716\
 Data File : BG023746.D
 Acq On : 17 Aug 2016 10:25
 Operator : UM/SJ
 Sample : H4449-03
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: Aug 17 16:16:51 2016
 Quant Method : Z:\HPCHEM1\BNA G\Methods\8270-BG080116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 19:22:14 2016
 Response via : Initial Calibration

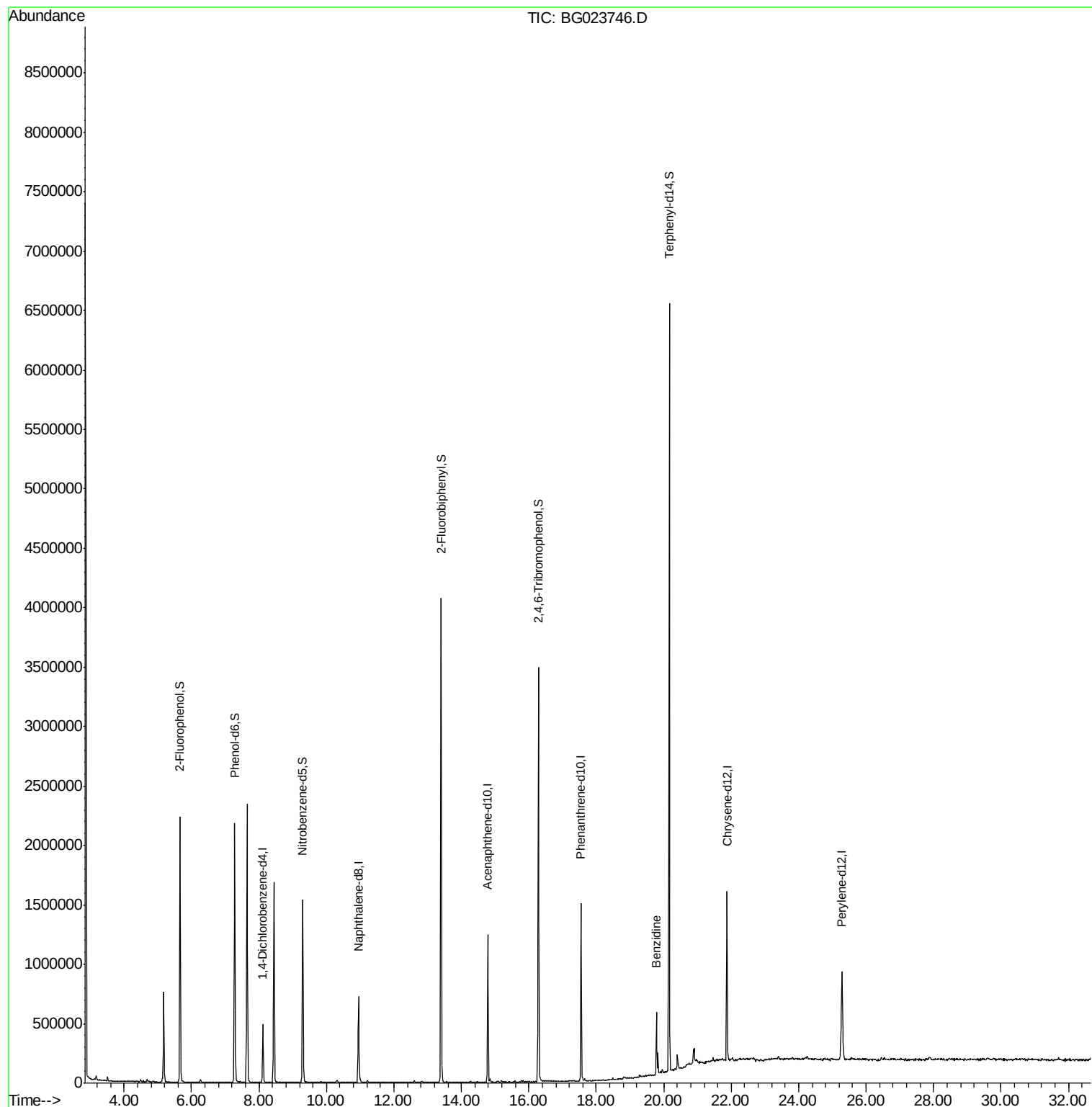
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	132026	20.00	ng	0.00
21) Naphthalene-d8	10.95	136	605301	20.00	ng	0.00
38) Acenaphthene-d10	14.78	164	420785	20.00	ng	0.00
63) Phenanthrene-d10	17.55	188	912041	20.00	ng	0.00
75) Chrysene-d12	21.87	240	852303	20.00	ng	0.00
86) Perylene-d12	25.28	264	841606	20.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	902045	115.01	ng	0.00
7) Phenol-d6	7.28	99	1265601	103.60	ng	0.00
23) Nitrobenzene-d5	9.29	82	996100	81.81	ng	0.00
41) 2,4,6-Tribromophenol	16.28	330	634610	103.11	ng	0.00
44) 2-Fluorobiphenyl	13.40	172	2023829	81.12	ng	0.00
78) Terphenyl-d14	20.16	244	2493676	93.47	ng	0.00
Target Compounds						
76) Benzidine	19.78	184	315842	13.33	ng	Qvalue 97

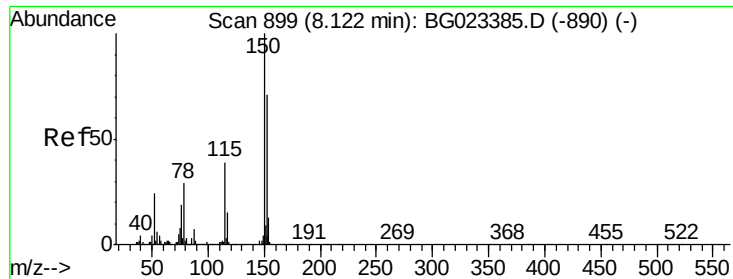
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA_G

ClientSampleId :

SOIL-CUTTINGS

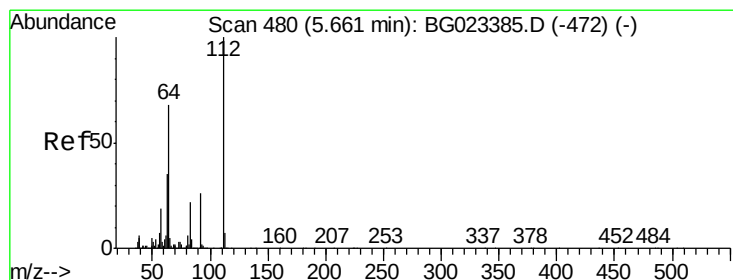
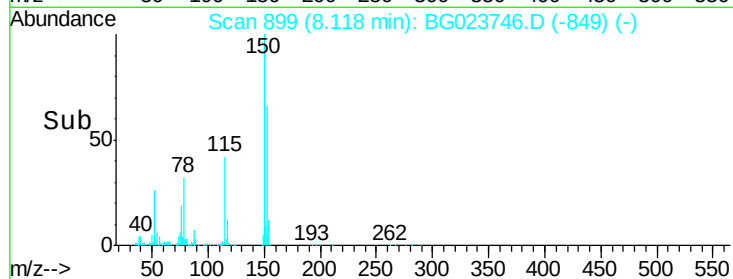
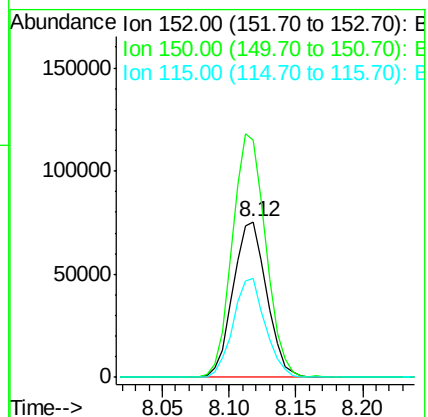
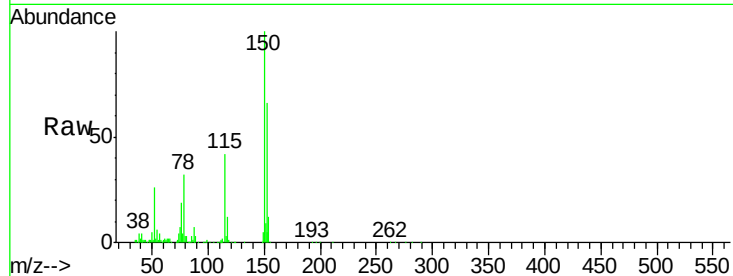
Tot Ion:152 Resp: 132026

Ion Ratio Lower Upper

152 100

150 152.5 144.7 217.1

115 63.8 64.0 96.0#



#5

2-Fluorophenol

Concen: 115.01 ng

RT: 5.66 min Scan# 480

Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

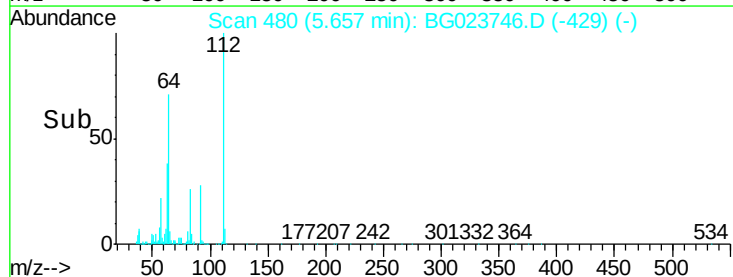
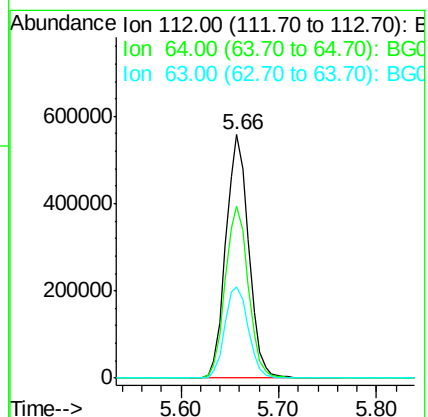
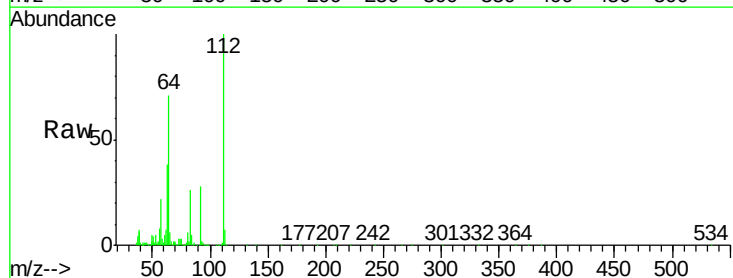
Tgt Ion:112 Resp: 902045

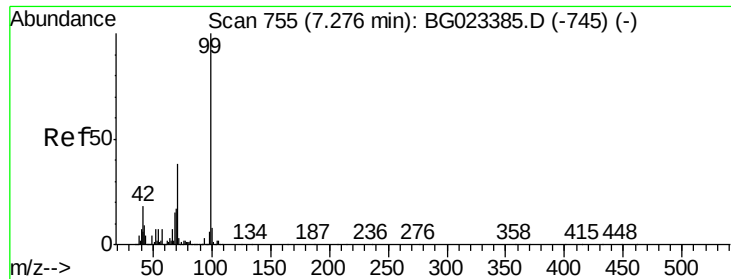
Ion Ratio Lower Upper

112 100

64 70.7 59.0 88.4

63 37.6 37.8 56.8#





#7

Phenol-d6

Concen: 103.60 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA_G

ClientSampleId :

SOIL-CUTTINGS

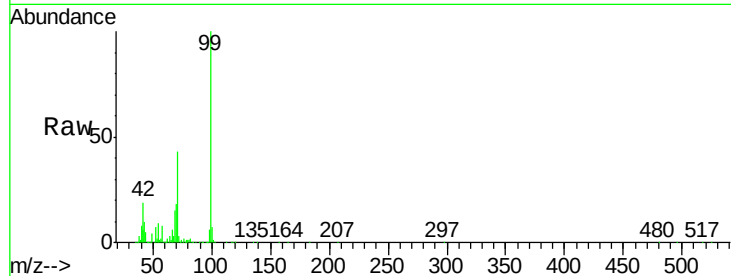
Tot Ion: 99 Resp: 1265601

Ion Ratio Lower Upper

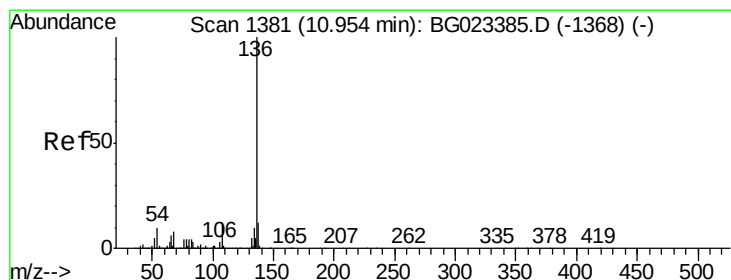
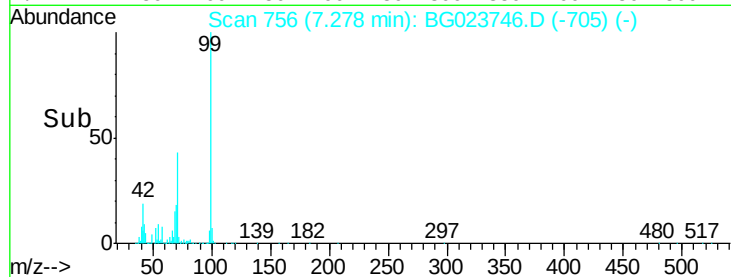
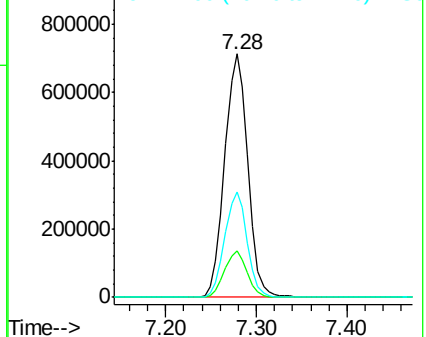
99 100

42 19.0 17.8 26.6

71 43.3 41.5 62.3



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.95 min Scan# 1381

Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Tgt Ion: 136 Resp: 605301

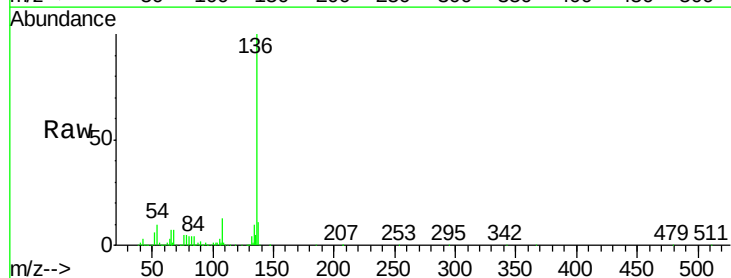
Ion Ratio Lower Upper

136 100

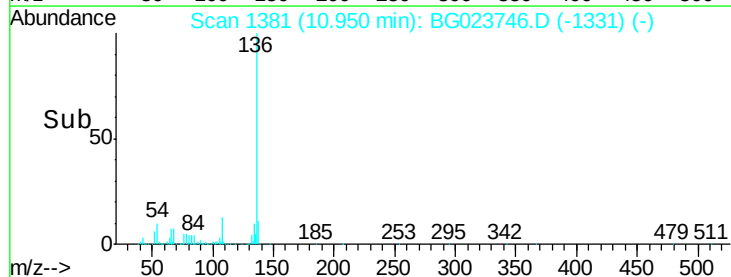
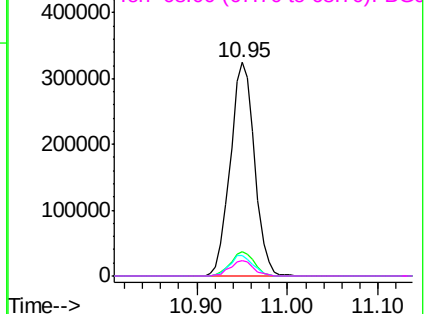
137 11.3 9.6 14.4

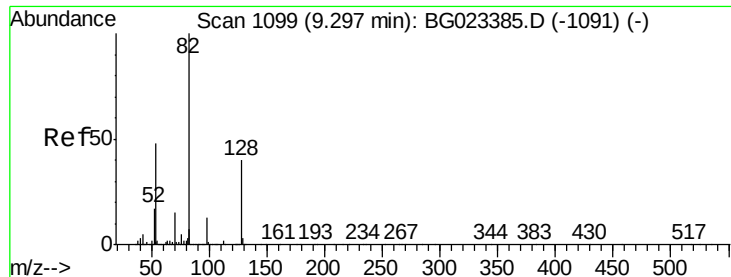
54 9.7 7.3 10.9

68 7.3 5.3 7.9



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC





#23

Nitrobenzene-d5

Concen: 81.81 ng

RT: 9.29 min Scan# 1099

Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA_G

ClientSampleId :

SOIL-CUTTINGS

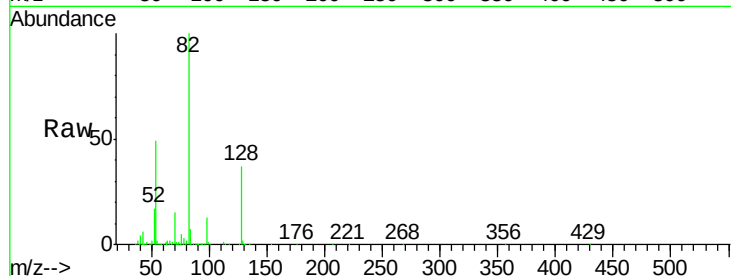
Tot Ion: 82 Resp: 996100

Ion Ratio Lower Upper

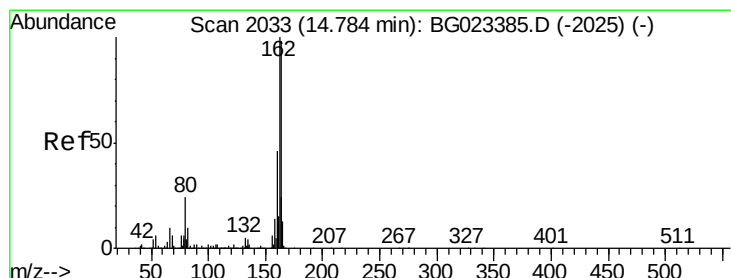
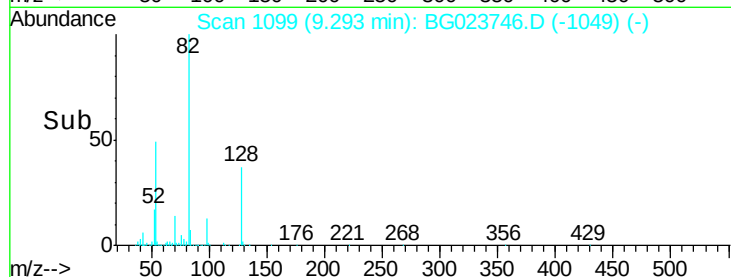
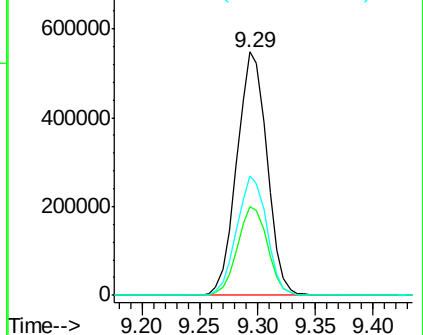
82 100

128 36.7 24.4 36.6#

54 48.8 41.4 62.0



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.78 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

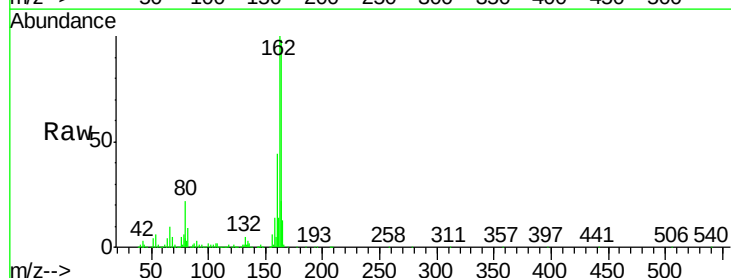
Tgt Ion:164 Resp: 420785

Ion Ratio Lower Upper

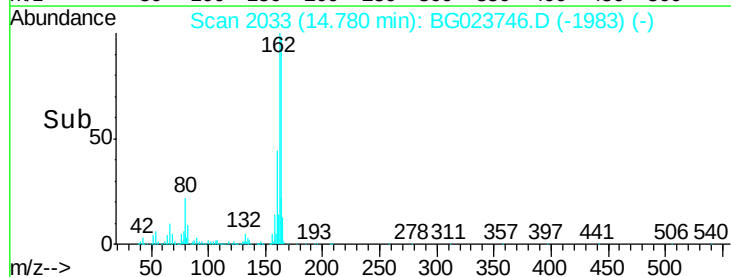
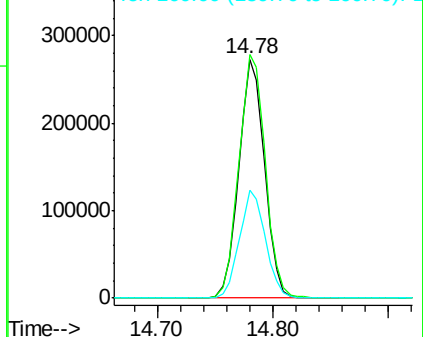
164 100

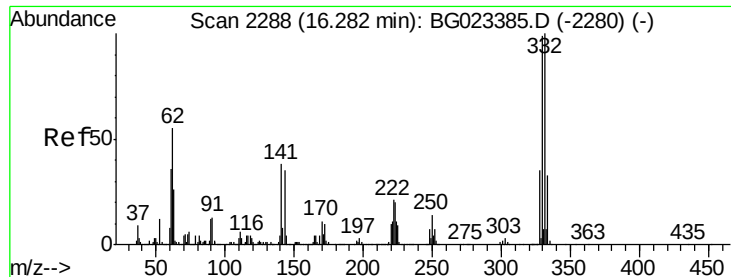
162 102.0 87.7 131.5

160 45.1 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): BGC
Ion 162.00 (161.70 to 162.70): BGC
Ion 160.00 (159.70 to 160.70): BGC

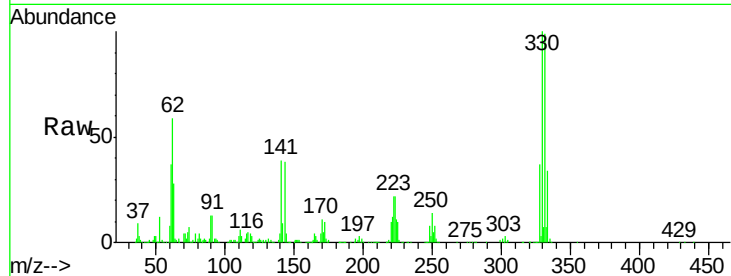




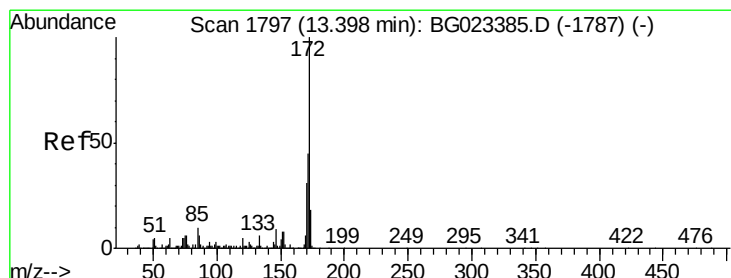
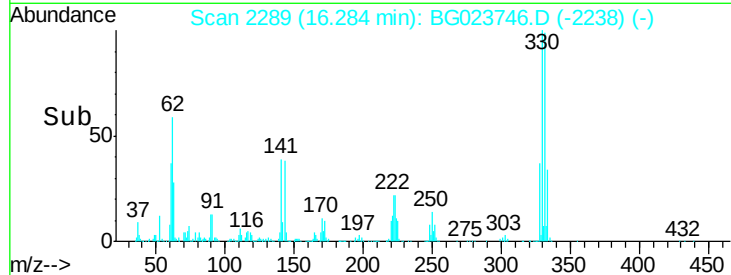
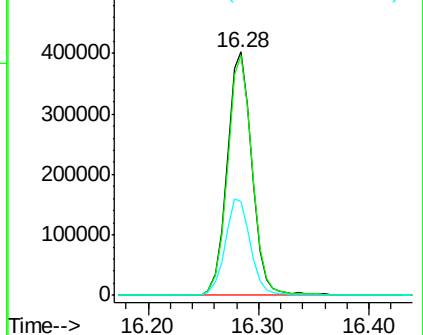
#41
 2,4,6-Tribromophenol
 Concen: 103.11 ng
 RT: 16.28 min Scan# 2289
 Delta R.T. 0.00 min
 Lab File: BG023746.D
 Acq: 17 Aug 2016 10:25

Instrument :
 BNA_G
 ClientSampleId :
 SOIL-CUTTINGS

Tot Ion:330 Resp: 634610
 Ion Ratio Lower Upper
 330 100
 332 98.5 77.4 116.2
 141 40.2 31.7 47.5

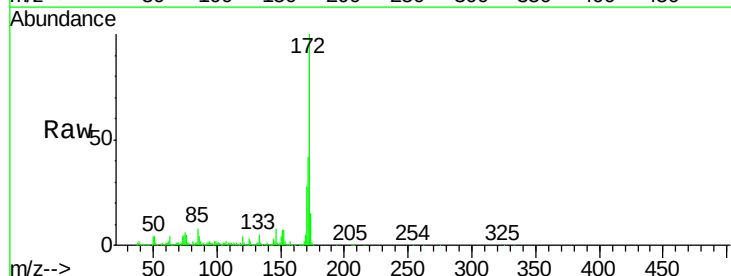


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

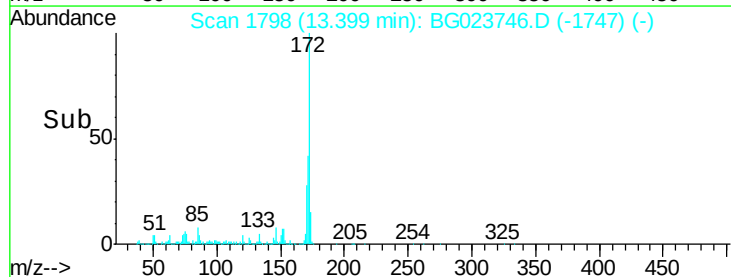
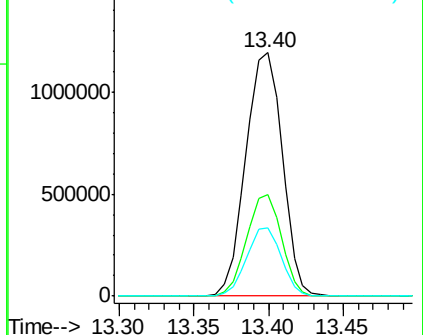


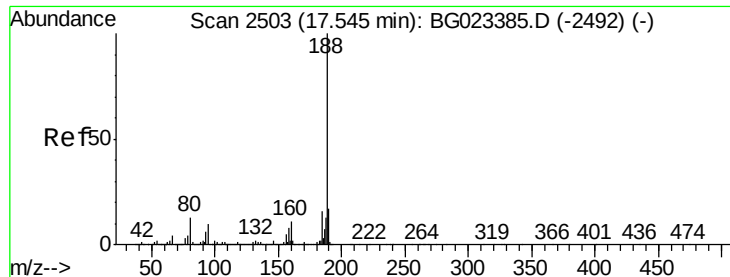
#44
 2-Fluorobiphenyl
 Concen: 81.12 ng
 RT: 13.40 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: BG023746.D
 Acq: 17 Aug 2016 10:25

Tgt Ion:172 Resp: 2023829
 Ion Ratio Lower Upper
 172 100
 171 41.6 31.6 47.4
 170 28.1 21.3 31.9



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.55 min Scan# 2504

Delta R.T. 0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA_G

ClientSampleId :

SOIL-CUTTINGS

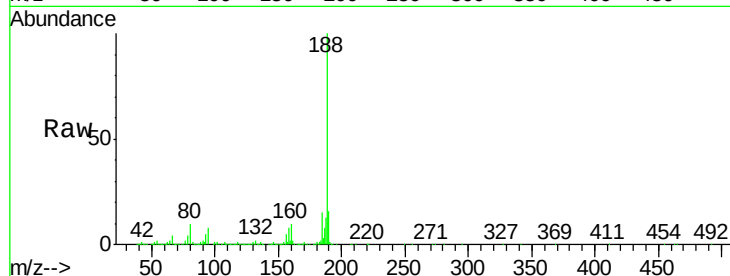
Tot Ion:188 Resp: 912041

Ion Ratio Lower Upper

188 100

94 8.0 5.2 7.8#

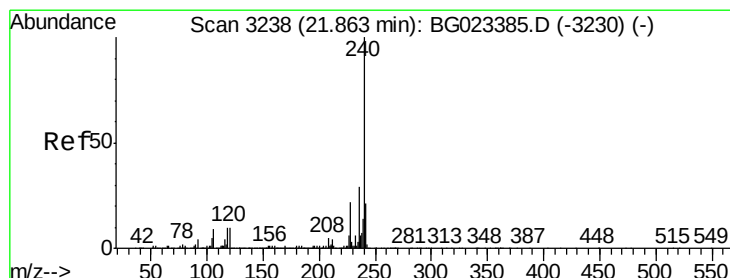
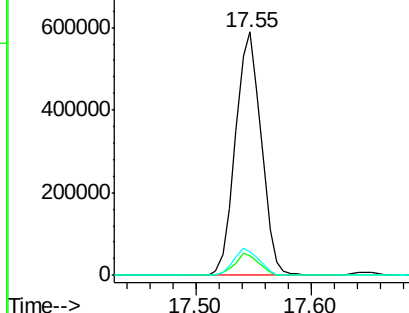
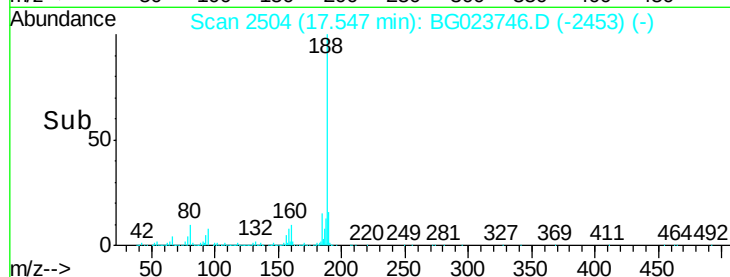
80 9.7 7.2 10.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.87 min Scan# 3240

Delta R.T. 0.01 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

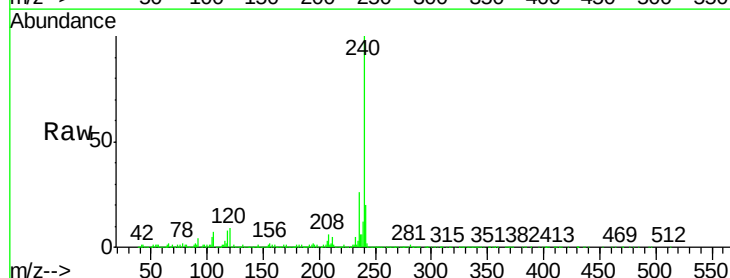
Tgt Ion:240 Resp: 852303

Ion Ratio Lower Upper

240 100

120 9.4 4.1 6.1#

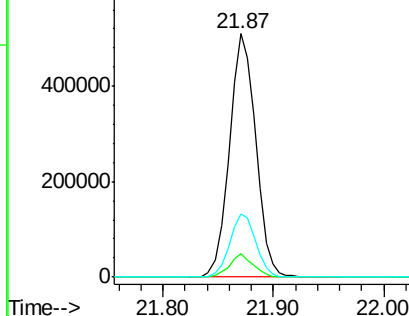
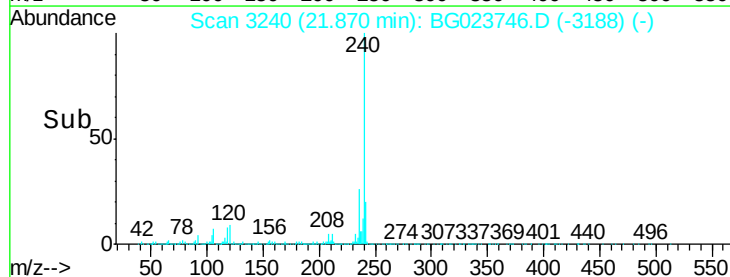
236 25.9 21.1 31.7

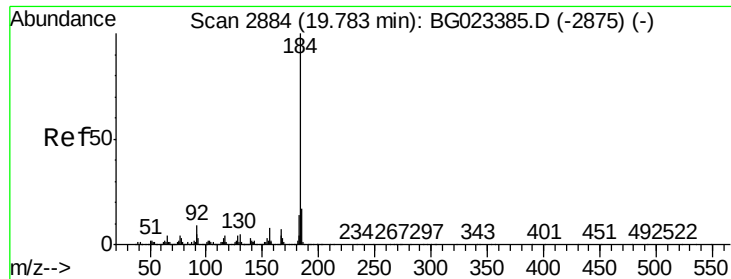


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 13.33 ng

RT: 19.78 min Scan# 2885

Delta R.T. 0.00 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

Instrument :

BNA_G

ClientSampleId :

SOIL-CUTTINGS

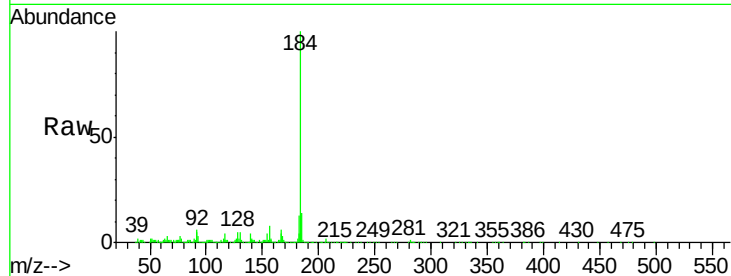
Tot Ion:184 Resp: 315842

Ion Ratio Lower Upper

184 100

185 13.9 12.6 19.0

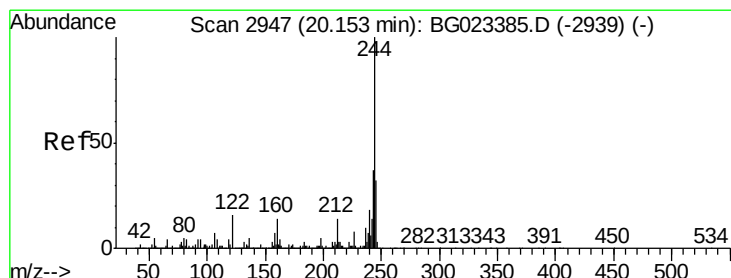
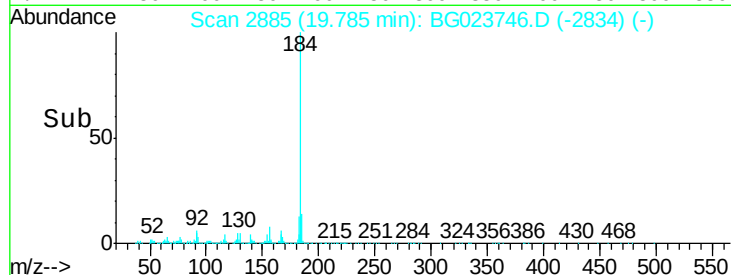
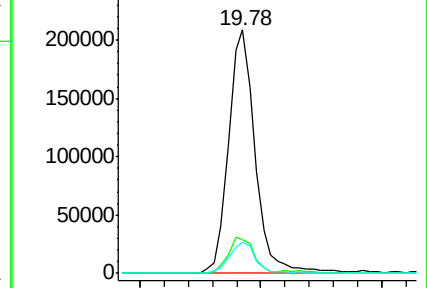
183 12.7 10.7 16.1



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 93.47 ng

RT: 20.16 min Scan# 2949

Delta R.T. 0.01 min

Lab File: BG023746.D

Acq: 17 Aug 2016 10:25

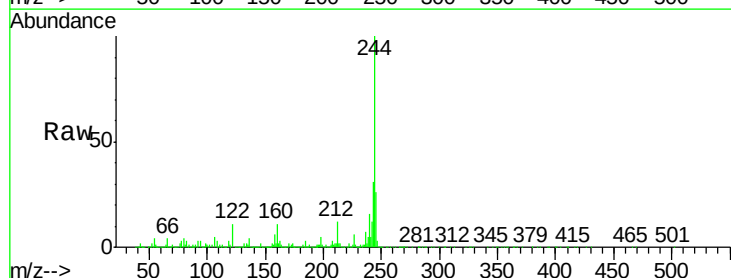
Tgt Ion:244 Resp: 2493676

Ion Ratio Lower Upper

244 100

212 11.9 10.8 16.2

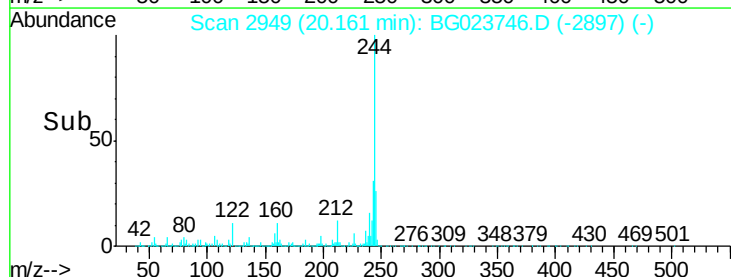
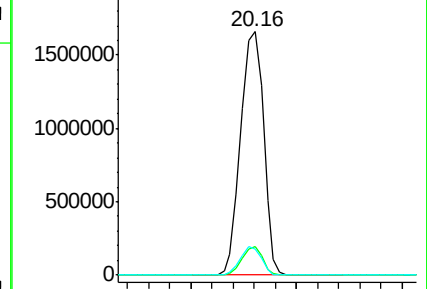
122 10.9 8.0 12.0

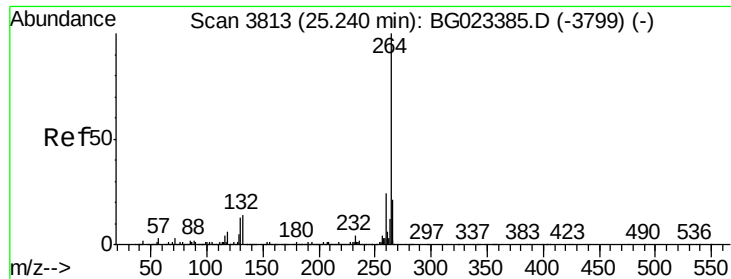


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

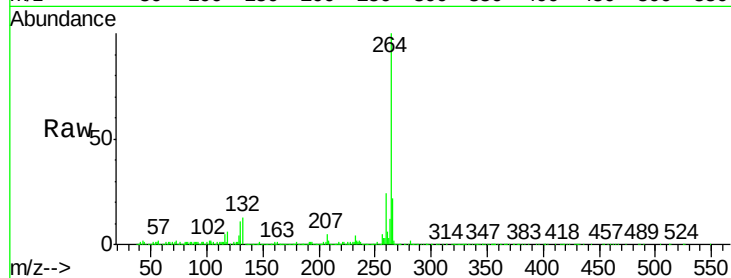




#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.28 min Scan# 3821
Delta R.T. 0.04 min
Lab File: BG023746.D
Acq: 17 Aug 2016 10:25

Instrument :
BNA_G
ClientSampleId :
SOIL-CUTTINGS

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.4	27.6
265	21.5	18.9	28.3



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

