

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112215\
 Data File : BF083181.D
 Acq On : 23 Nov 2015 2:04
 Operator : UM/IZ
 Sample : G4512-02
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-2

Quant Time: Nov 23 03:43:47 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Nov 22 09:22:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.65	152	228172	20.00	ng	-0.01
21) Naphthalene-d8	7.94	136	846595	20.00	ng	-0.01
38) Acenaphthene-d10	9.68	164	382761	20.00	ng	-0.02
63) Phenanthrene-d10	11.17	188	628682	20.00	ng	-0.01
75) Chrysene-d12	13.78	240	491411	20.00	ng	-0.02
86) Perylene-d12	15.15	264	412572	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	1616735	107.12	ng	-0.02
7) Phenol-d6	6.32	99	2189989	112.15	ng	-0.02
23) Nitrobenzene-d5	7.22	82	1400304	75.58	ng	-0.01
41) 2,4,6-Tribromophenol	10.48	330	384998	98.32	ng	-0.01
44) 2-Fluorobiphenyl	9.02	172	1875023	68.31	ng	-0.01
78) Terphenyl-d14	12.74	244	1377493	66.01	ng	-0.02

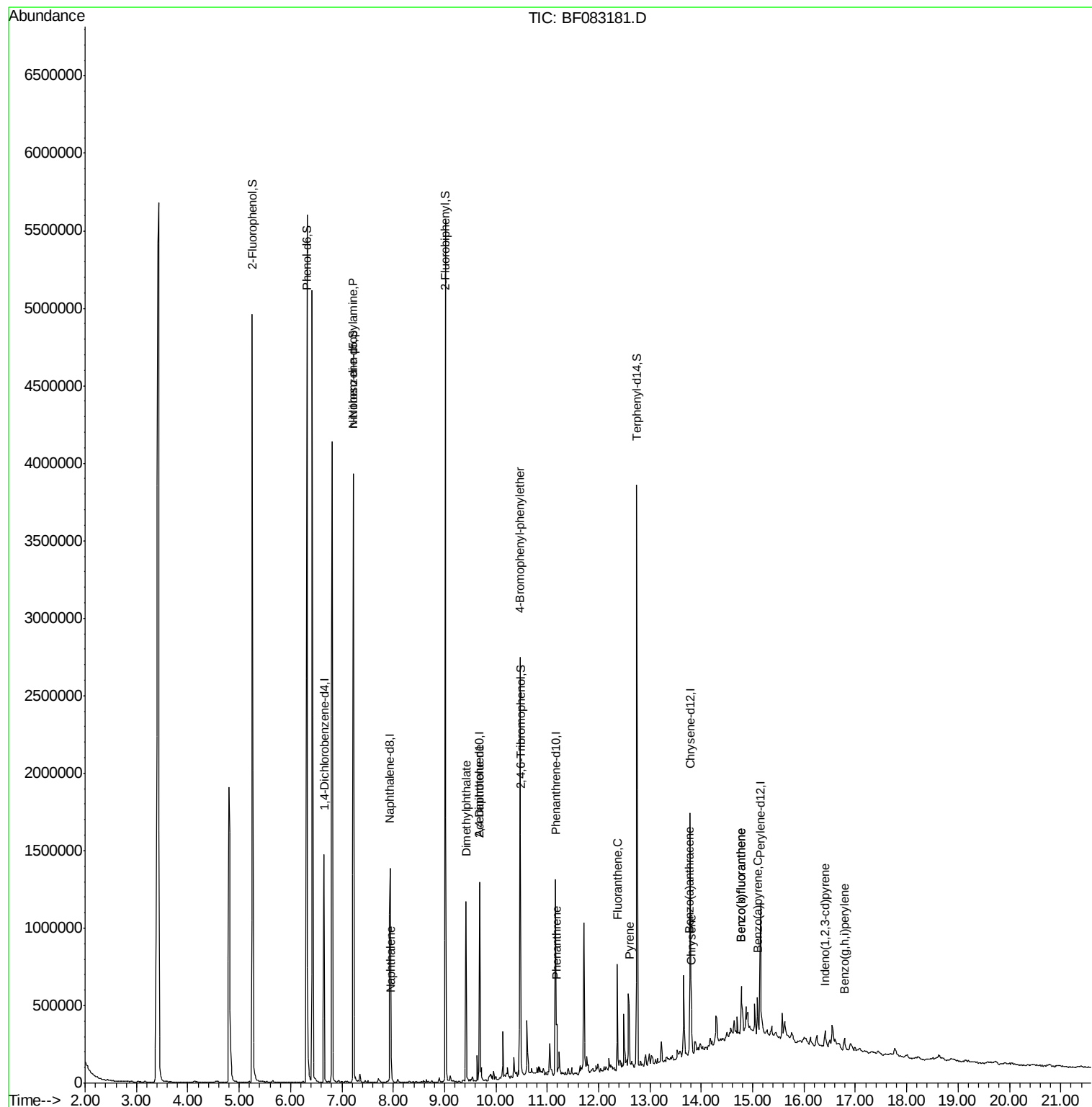
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.32	77	3245	Below Cal		# 4
19) n-Nitroso-di-n-propylamine	7.22	70	190382	14.01	ng	# 77
31) Naphthalene	7.95	128	133448	2.92	ng	98
49) Dimethylphthalate	9.42	163	425125	14.43	ng	99
56) 2,4-Dinitrotoluene	9.68	165	49263	5.88	ng	# 11
66) 4-Bromophenyl-phenylether	10.47	248	24879	3.57	ng	# 1
70) Phenanthrene	11.19	178	177830	4.91	ng	96
74) Fluoranthene	12.37	202	284520	7.68	ng	95
77) Pyrene	12.59	202	251780	7.50	ng	95
80) Benzo(a)anthracene	13.77	228	147564	4.86	ng	94
82) Chrysene	13.81	228	107245	3.81	ng	95
85) Indeno(1,2,3-cd)pyrene	16.41	276	62701	2.45	ng	97
87) Benzo(b)fluoranthene	14.78	252	195271	6.93	ng	# 94
88) Benzo(k)fluoranthene	14.78	252	195271	9.30	ng	# 95
89) Benzo(a)pyrene	15.10	252	101514	4.36	ng	# 96
91) Benzo(g,h,i)perylene	16.79	276	60506	2.93	ng	# 93

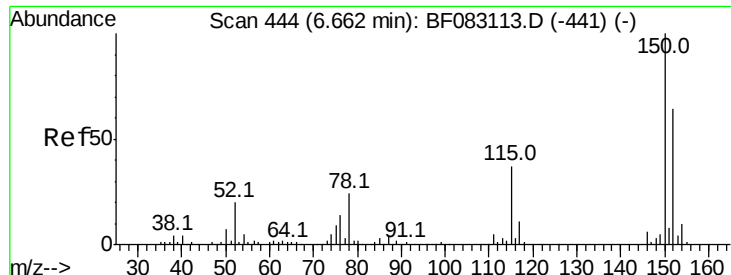
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 23 03:43:47 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M
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QLast Update : Sun Nov 22 09:22:46 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

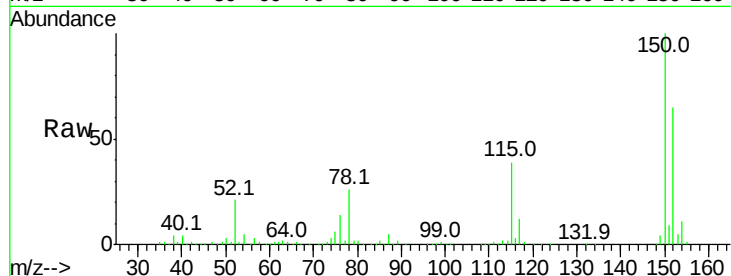
Tot Ion:152 Resp: 228172

Ion Ratio Lower Upper

152 100

150 155.0 125.8 188.8

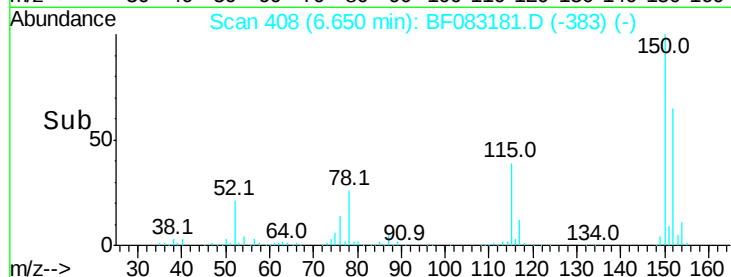
115 60.9 46.9 70.3



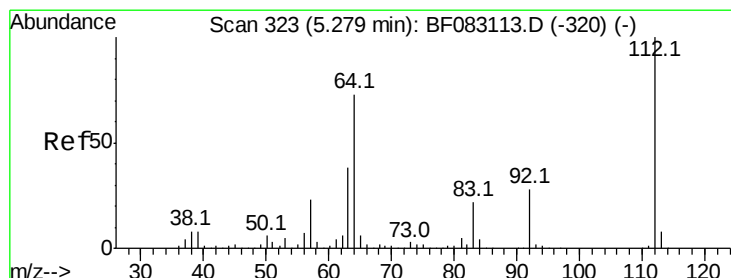
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#5

2-Fluorophenol

Concen: 107.12 ng

RT: 5.26 min Scan# 286

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

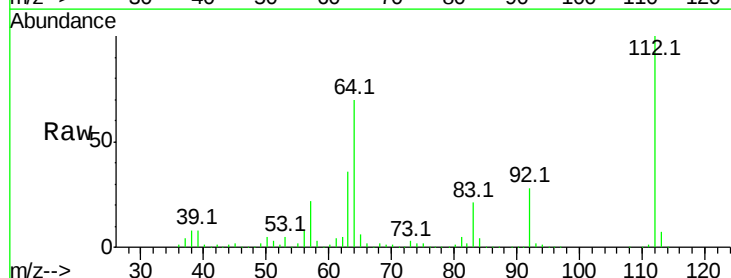
Tgt Ion:112 Resp: 1616735

Ion Ratio Lower Upper

112 100

64 70.4 58.4 87.6

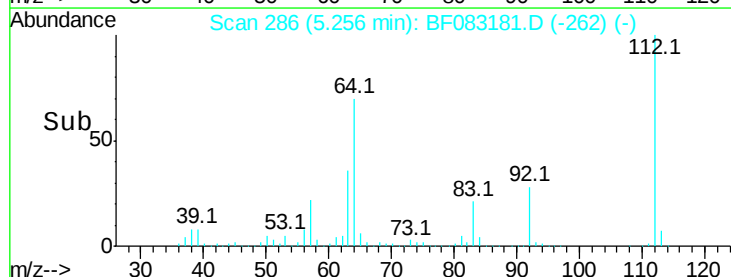
63 36.3 30.0 45.0



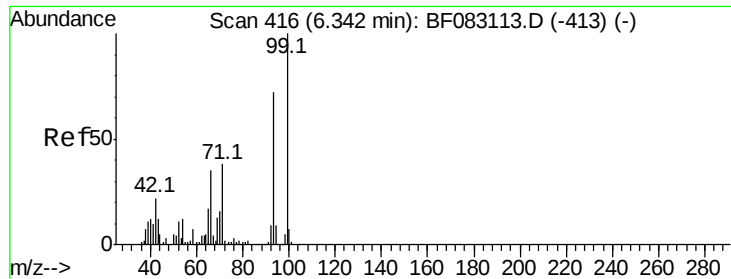
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



Time-->



#7

Phenol-d6

Concen: 112.15 ng

RT: 6.32 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

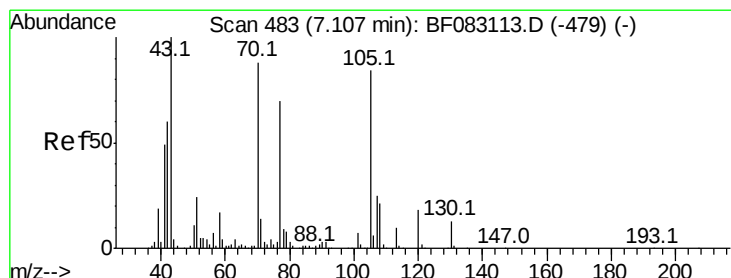
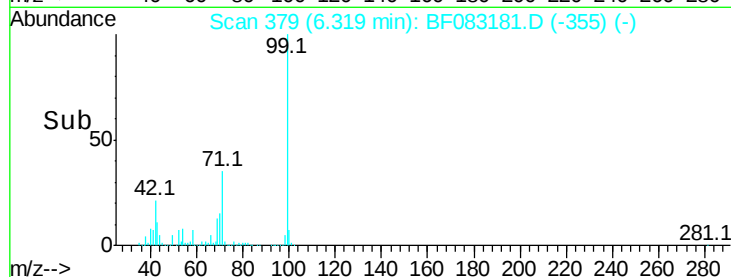
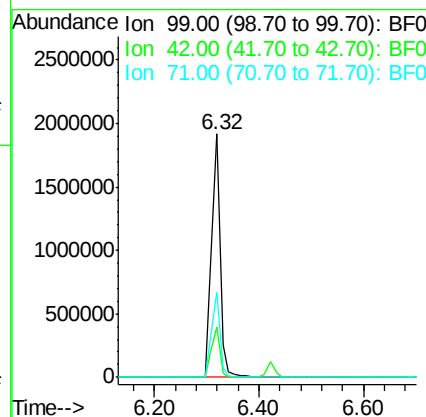
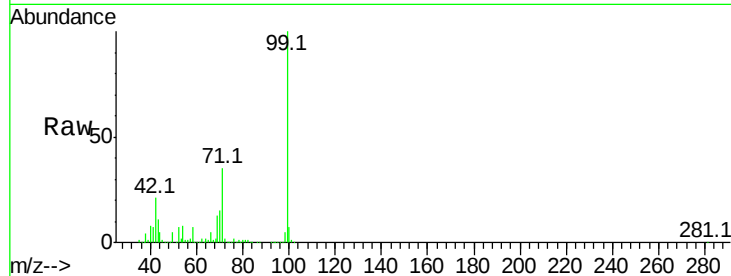
Tot Ion: 99 Resp: 2189989

Ion Ratio Lower Upper

99 100

42 20.9 17.7 26.5

71 34.6 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 14.01 ng

RT: 7.22 min Scan# 458

Delta R.T. 0.11 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Tgt Ion: 70 Resp: 190382

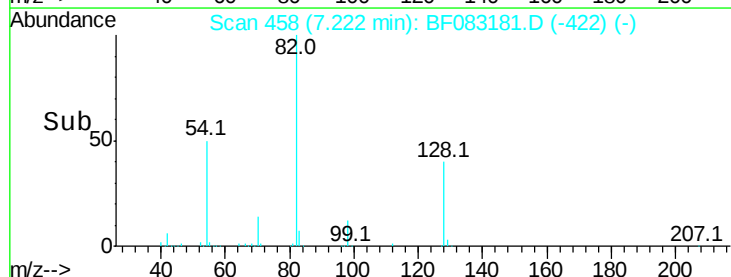
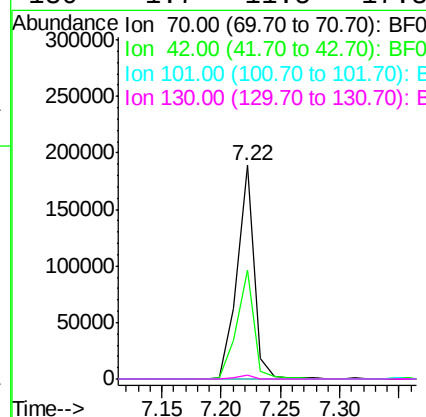
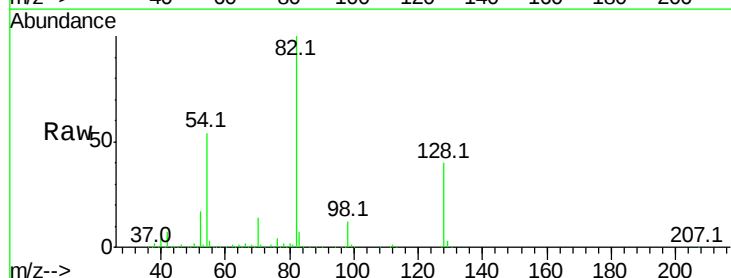
Ion Ratio Lower Upper

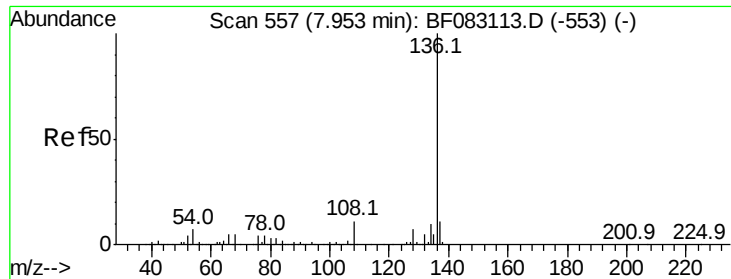
70 100

42 50.7 54.5 81.7#

101 0.0 6.6 9.8#

130 1.7 11.5 17.3#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.94 min Scan# 521

Delta R.T. -0.01 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampled :

FILL-DIRT-2

Tot Ion:136 Resp: 846595

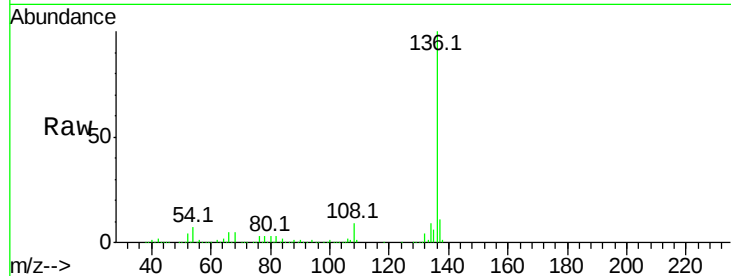
Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

54 7.3 5.8 8.6

68 5.4 3.8 5.8

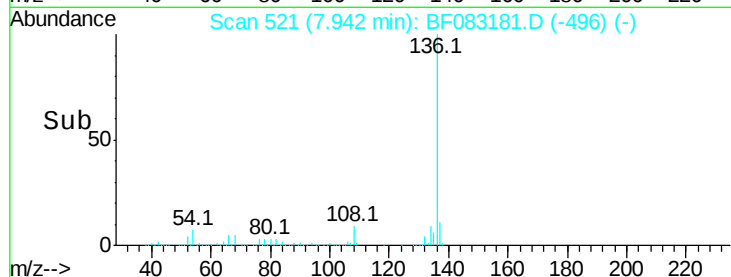


Abundance Ion 136.00 (135.70 to 136.70): E

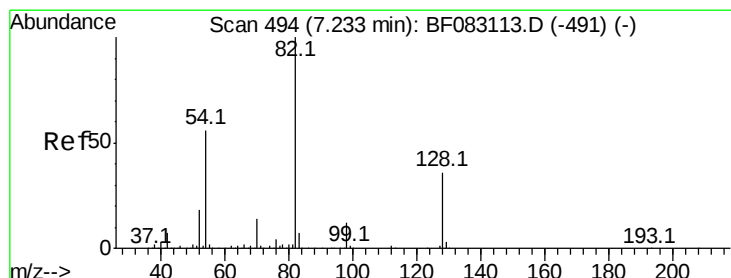
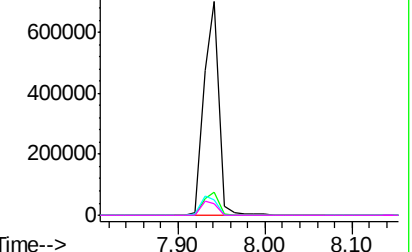
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 75.58 ng

RT: 7.22 min Scan# 458

Delta R.T. -0.01 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

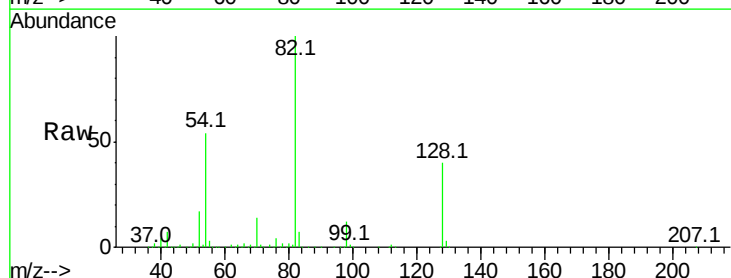
Tgt Ion: 82 Resp: 1400304

Ion Ratio Lower Upper

82 100

128 39.7 28.5 42.7

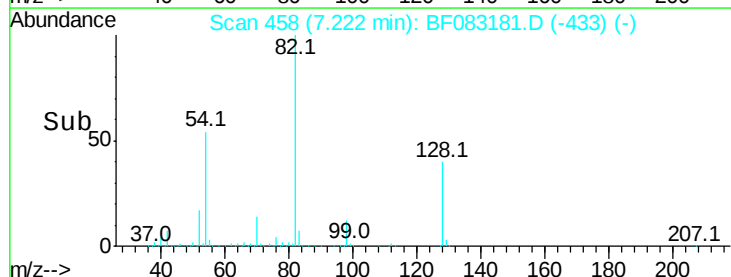
54 54.2 44.6 67.0



Abundance Ion 82.00 (81.70 to 82.70): BF0

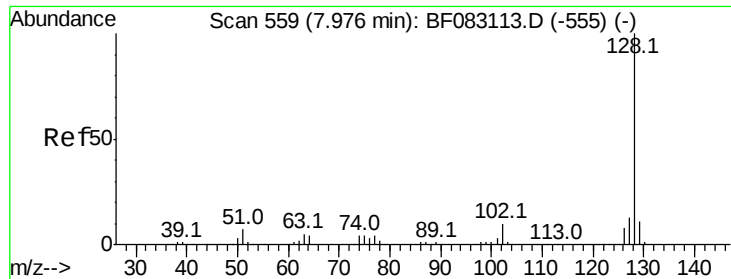
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->

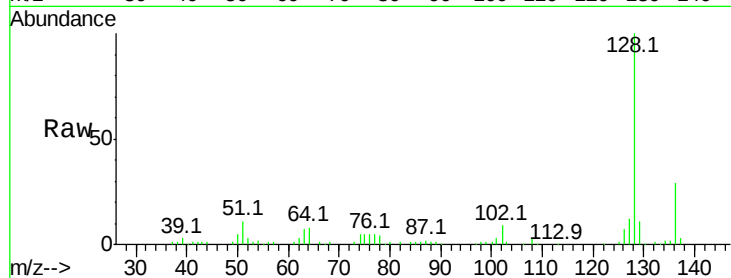




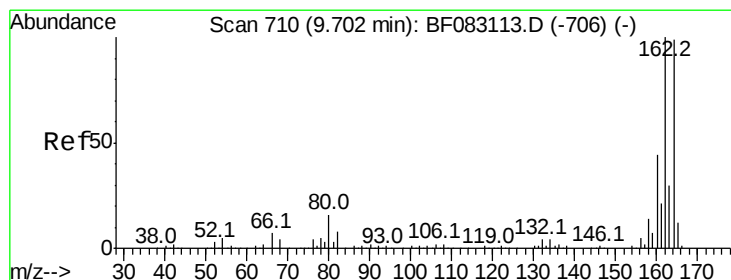
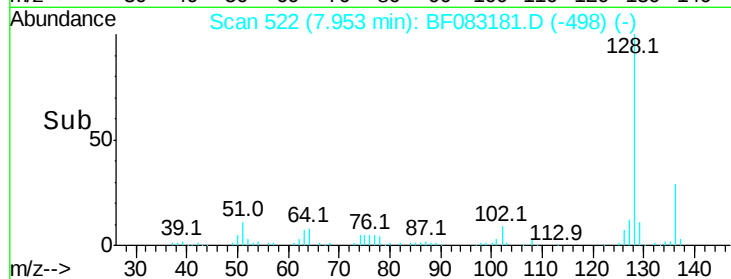
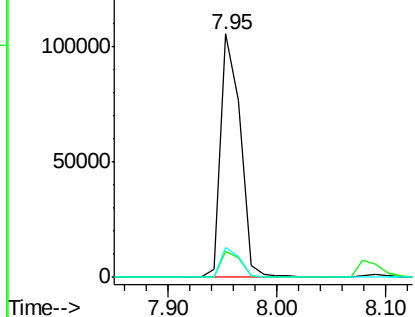
#31
Naphthalene
Concen: 2.92 ng
RT: 7.95 min Scan# 522
Delta R.T. -0.02 min
Lab File: BF083181.D
Acq: 23 Nov 2015 2:04

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-2

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.4
127	12.1	10.6	15.8

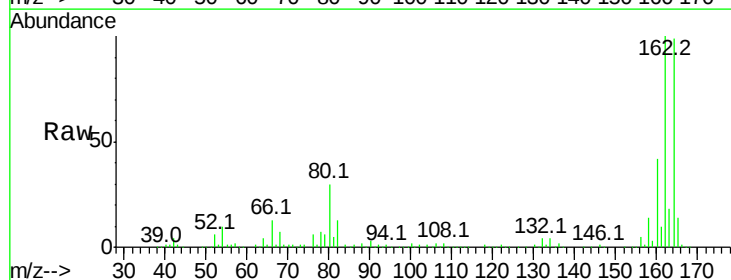


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

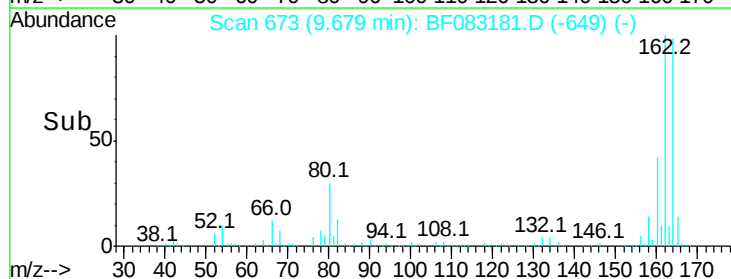
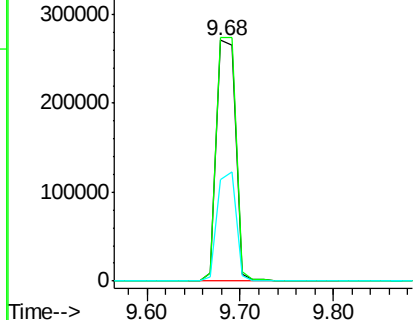


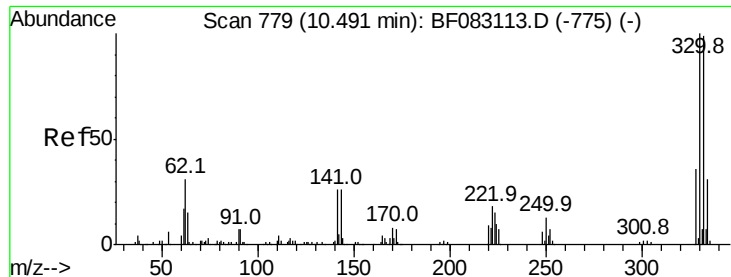
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.68 min Scan# 673
Delta R.T. -0.02 min
Lab File: BF083181.D
Acq: 23 Nov 2015 2:04

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.2	121.8
160	42.2	35.6	53.4



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

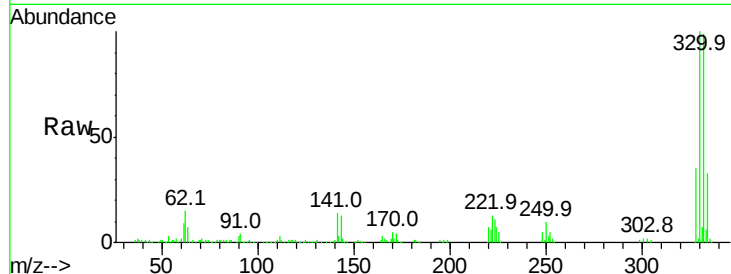




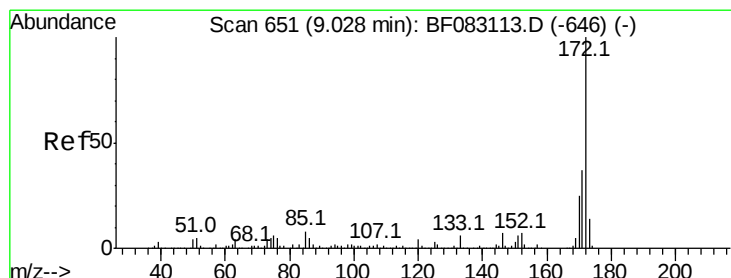
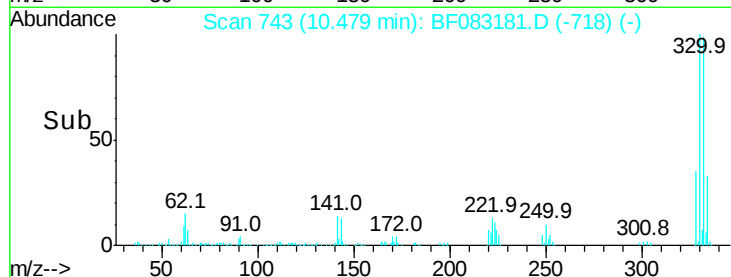
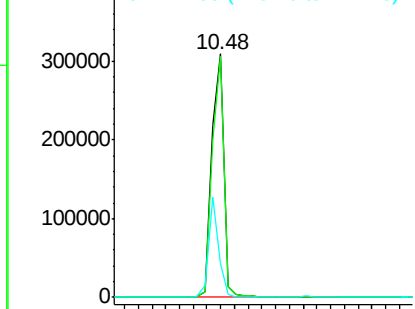
#41
 2,4,6-Tribromophenol
 Concen: 98.32 ng
 RT: 10.48 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: BF083181.D
 Acq: 23 Nov 2015 2:04

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-2

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.7	116.5
141	34.7	29.7	44.5

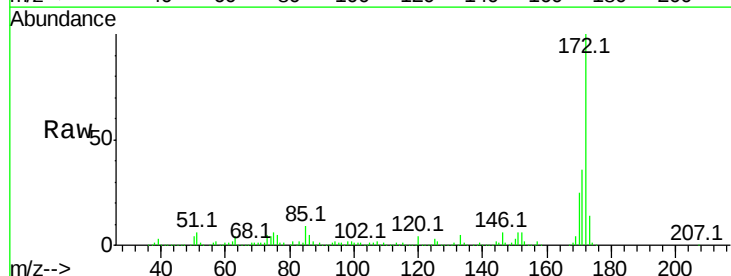


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

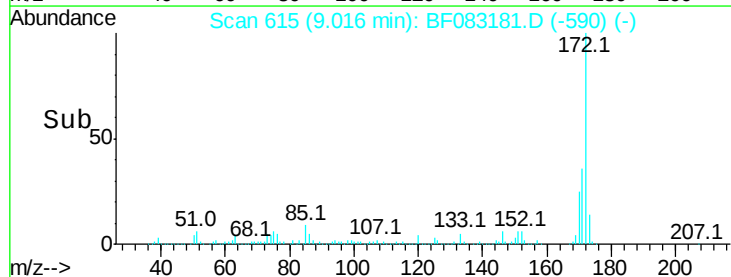
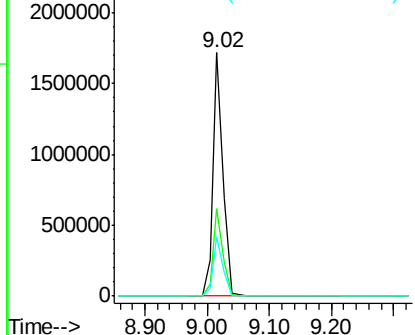


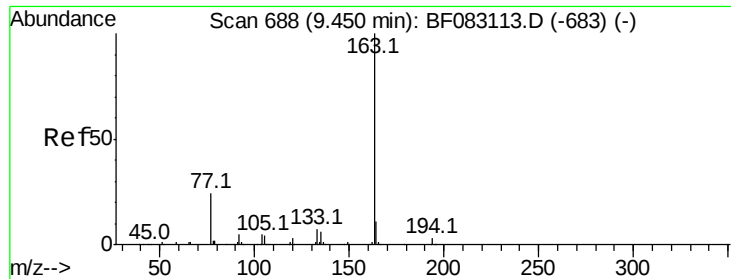
#44
 2-Fluorobiphenyl
 Concen: 68.31 ng
 RT: 9.02 min Scan# 615
 Delta R.T. -0.01 min
 Lab File: BF083181.D
 Acq: 23 Nov 2015 2:04

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.5	44.3
170	24.5	19.9	29.9



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





#49

Dimethylphthalate

Concen: 14.43 ng

RT: 9.42 min Scan# 650

Delta R.T. -0.03 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

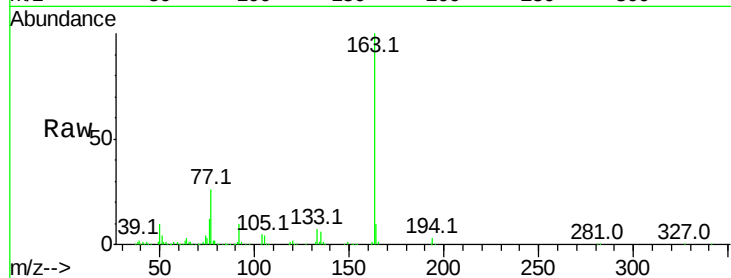
Tot Ion:163 Resp: 425125

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

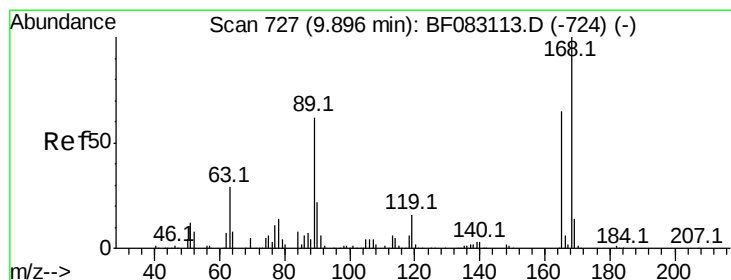
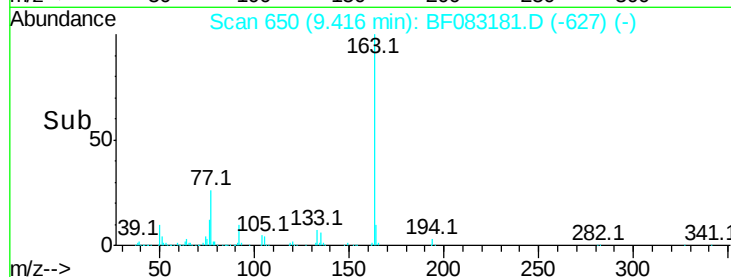
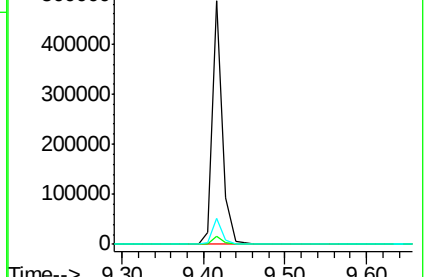
164 10.5 8.6 12.8



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



#56

2,4-Dinitrotoluene

Concen: 5.88 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.22 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Tgt Ion:165 Resp: 49263

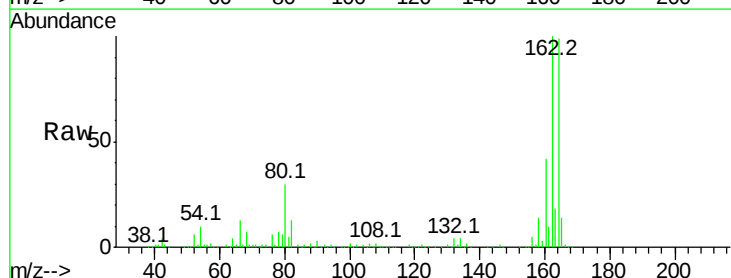
Ion Ratio Lower Upper

165 100

63 2.0 54.5 81.7#

89 1.7 77.3 115.9#

182 0.0 1.8 2.6#

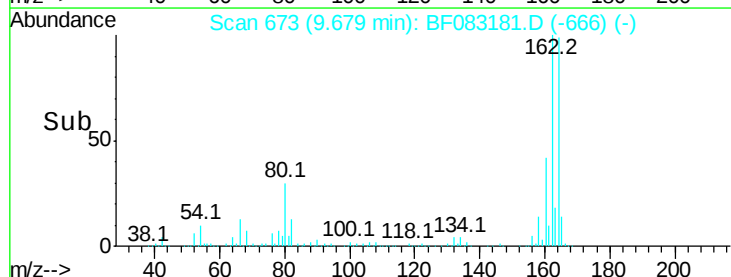
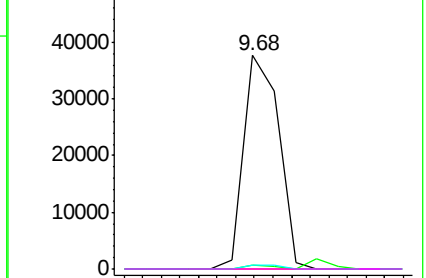


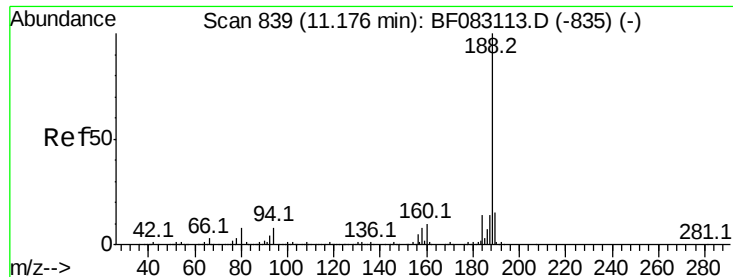
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

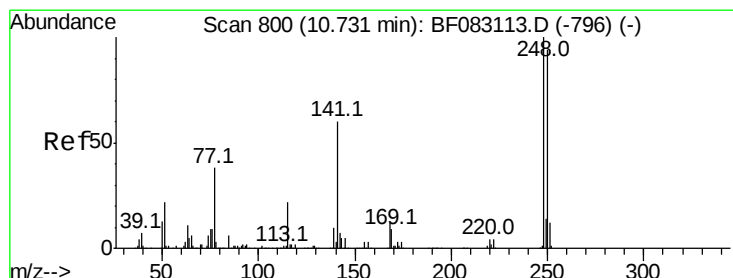
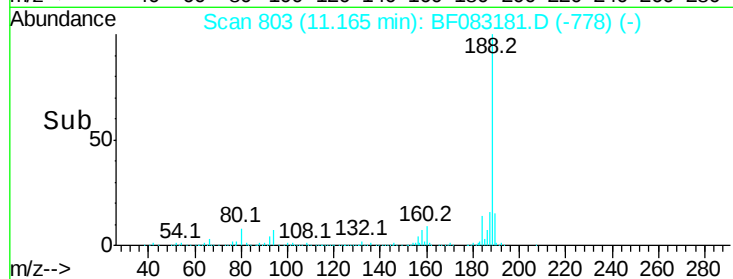
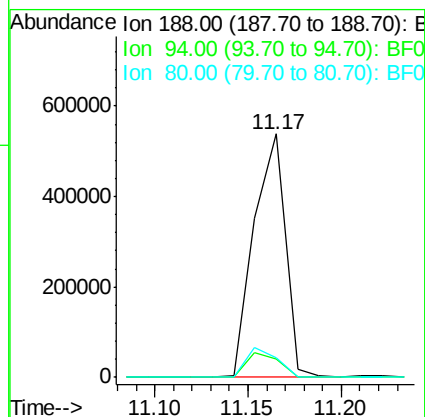
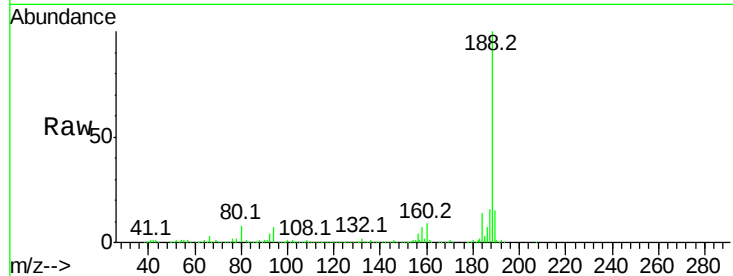




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.17 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF083181.D
Acq: 23 Nov 2015 2:04

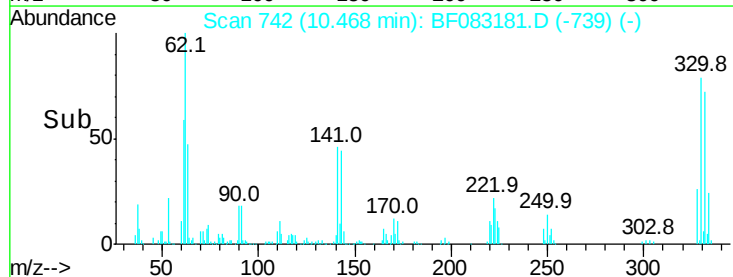
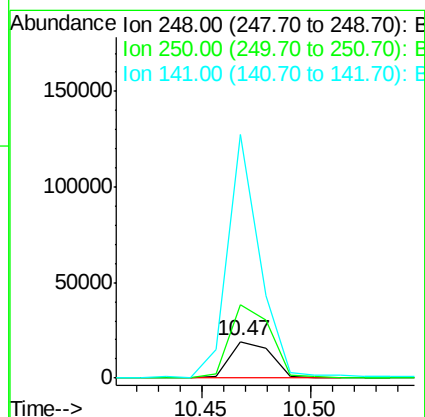
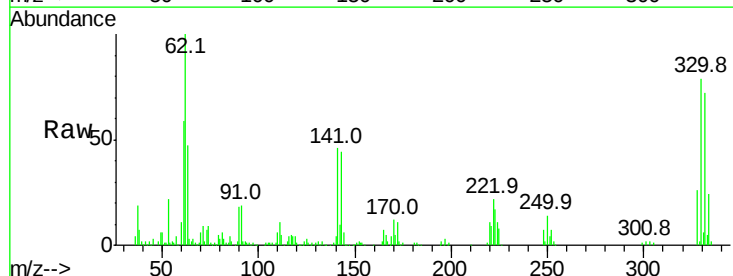
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-2

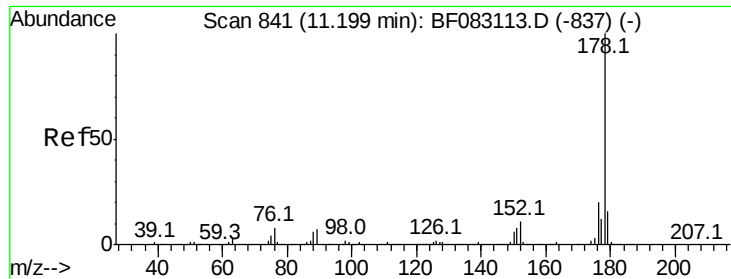
Tot Ion:188 Resp: 628682
Ion Ratio Lower Upper
188 100
94 7.4 6.0 9.0
80 8.3 6.7 10.1



#66
4-Bromophenyl-phenylether
Concen: 3.57 ng
RT: 10.47 min Scan# 742
Delta R.T. -0.26 min
Lab File: BF083181.D
Acq: 23 Nov 2015 2:04

Tgt Ion:248 Resp: 24879
Ion Ratio Lower Upper
248 100
250 202.4 75.4 113.2#
141 670.1 48.1 72.1#

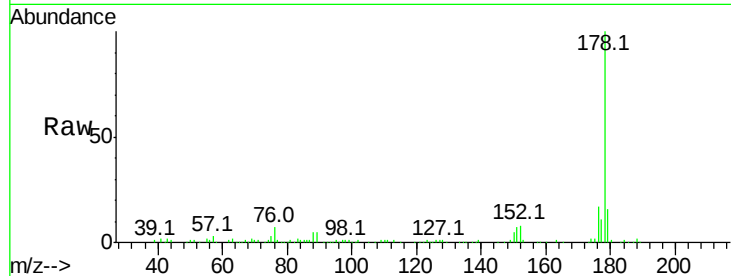




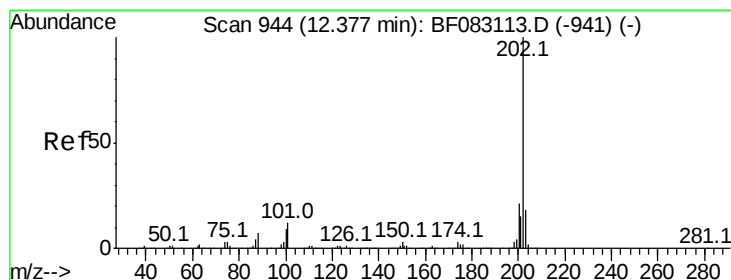
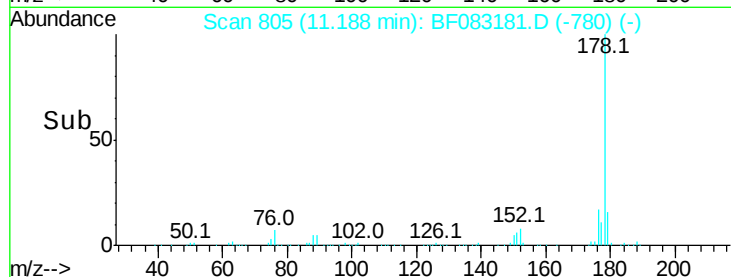
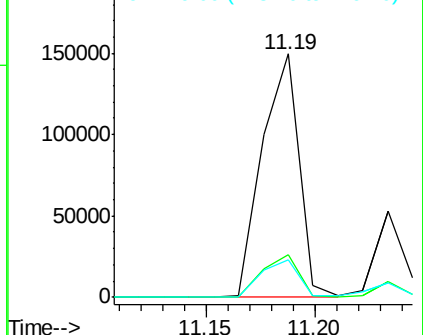
#70
Phenanthrene
Concen: 4.91 ng
RT: 11.19 min Scan# 805
Delta R.T. -0.01 min
Lab File: BF083181.D
Acq: 23 Nov 2015 2:04

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.5	16.2	24.2
179	15.6	12.8	19.2

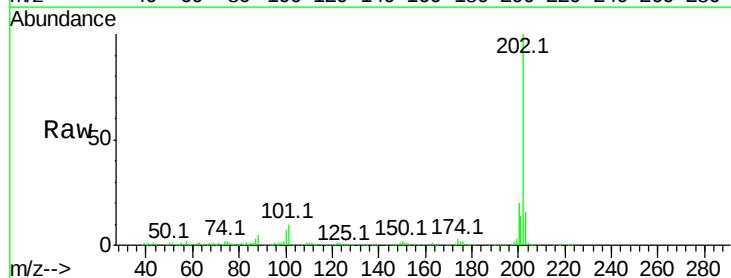


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

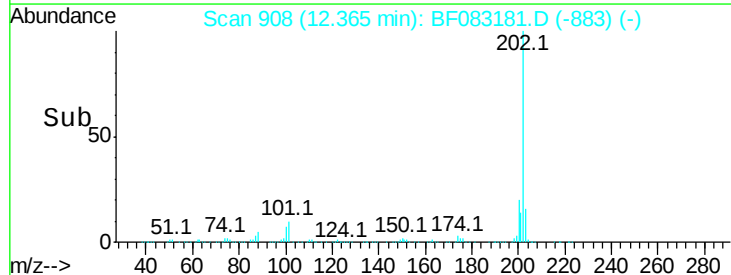
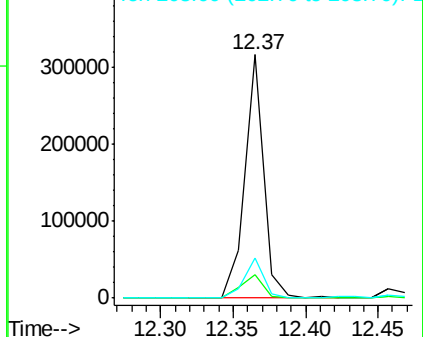


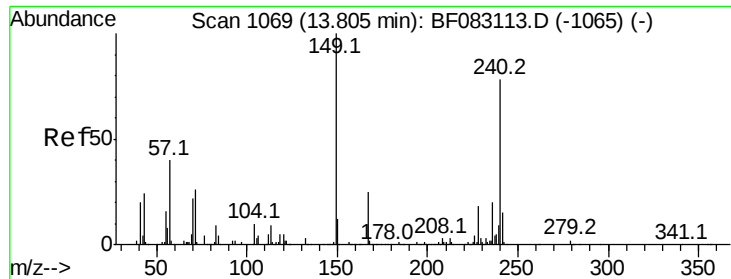
#74
Fluoranthene
Concen: 7.68 ng
RT: 12.37 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF083181.D
Acq: 23 Nov 2015 2:04

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	32.3
203	16.4	0.0	38.4



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.78 min Scan# 1032

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

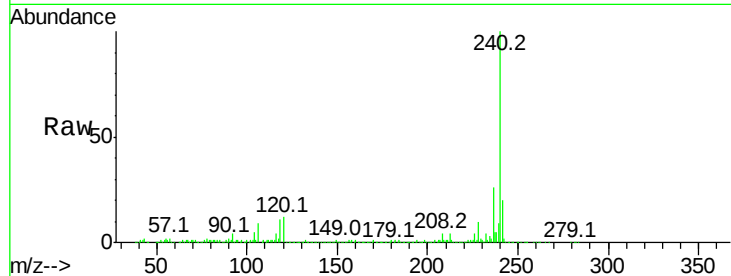
Tot Ion:240 Resp: 491411

Ion Ratio Lower Upper

240 100

120 12.3 5.4 8.2#

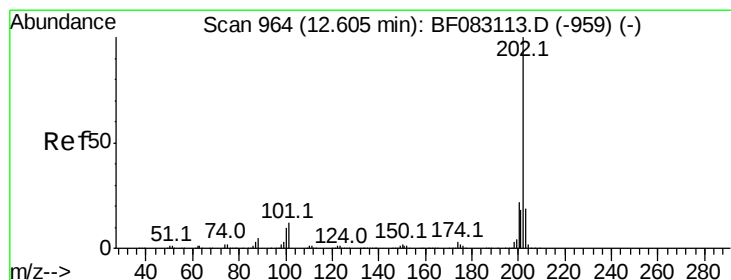
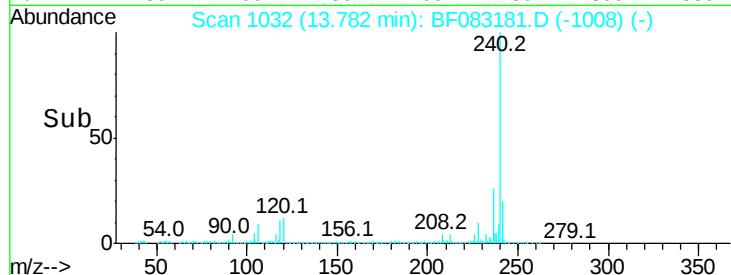
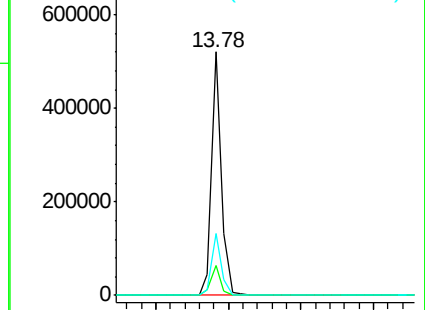
236 25.6 20.6 31.0



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



#77

Pyrene

Concen: 7.50 ng

RT: 12.59 min Scan# 928

Delta R.T. -0.01 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

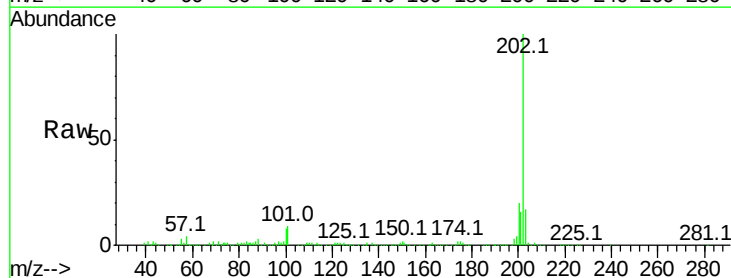
Tgt Ion:202 Resp: 251780

Ion Ratio Lower Upper

202 100

200 19.7 17.8 26.6

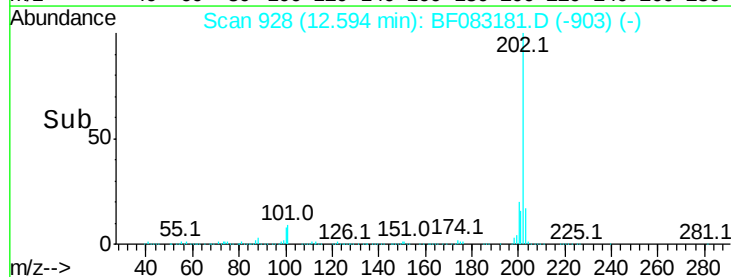
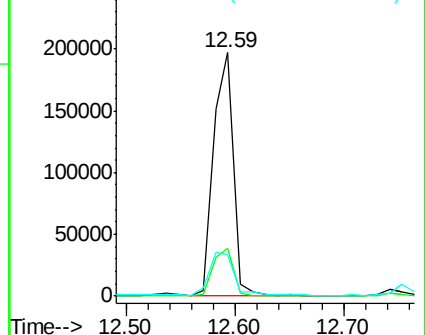
203 17.0 15.0 22.4

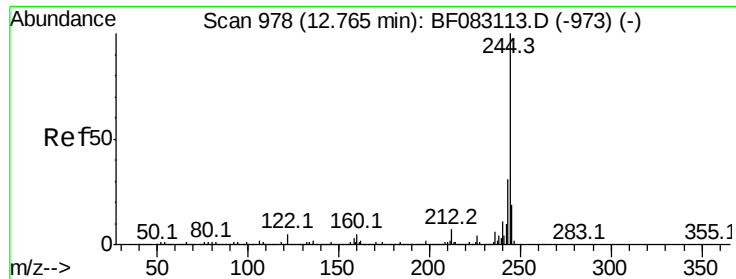


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 66.01 ng

RT: 12.74 min Scan# 941

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

Tot Ion:244 Resp: 1377493

Ion Ratio Lower Upper

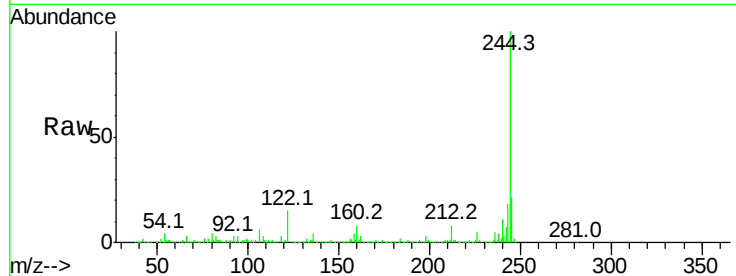
244 100

212 8.1

122 14.9

5.4 8.2

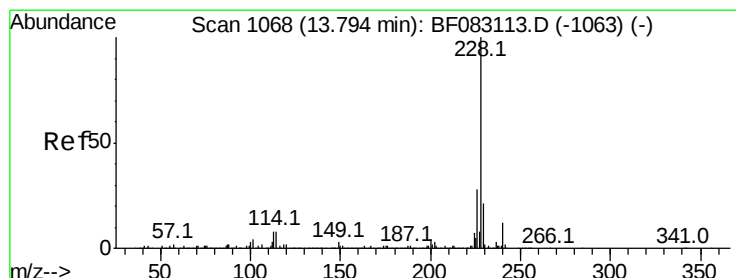
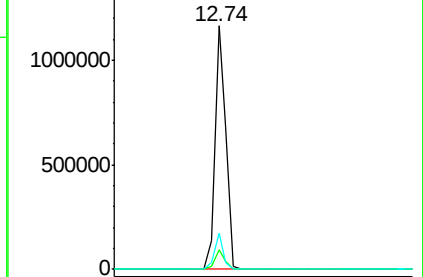
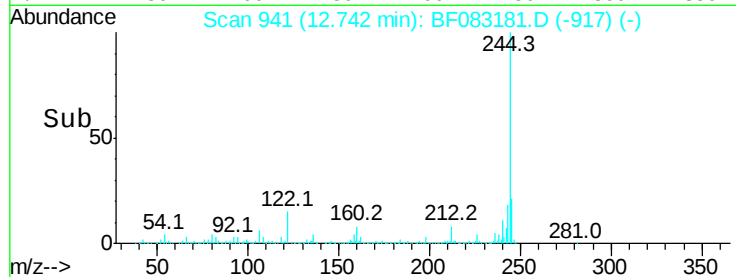
4.3 6.5#



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



#80

Benzo(a)anthracene

Concen: 4.86 ng

RT: 13.77 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Tgt Ion:228 Resp: 147564

Ion Ratio Lower Upper

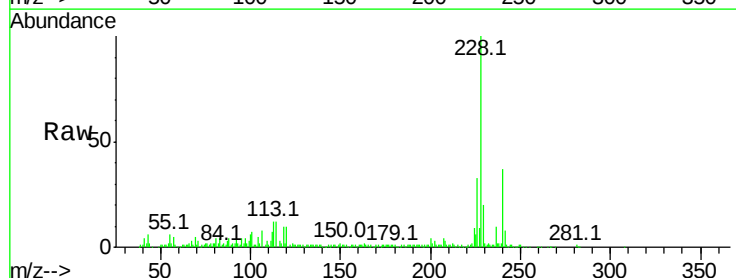
228 100

226 33.5

229 20.0

22.6 33.8

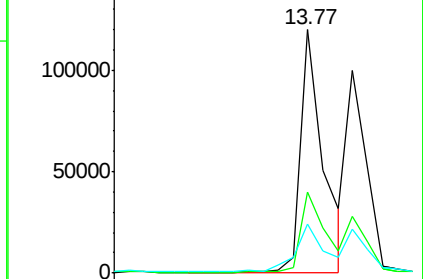
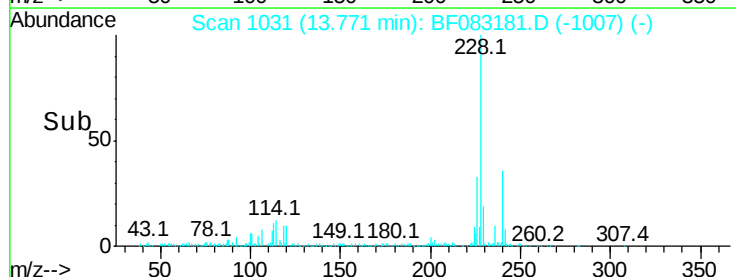
16.6 24.8

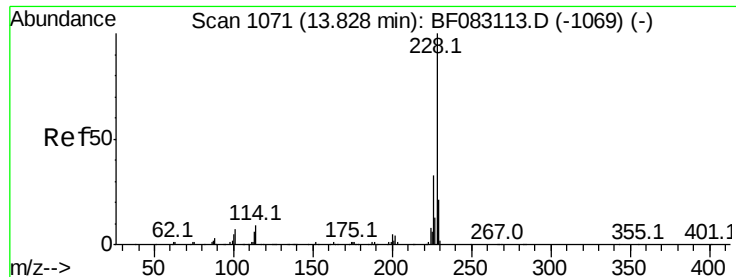


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.81 ng

RT: 13.81 min Scan# 1034

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

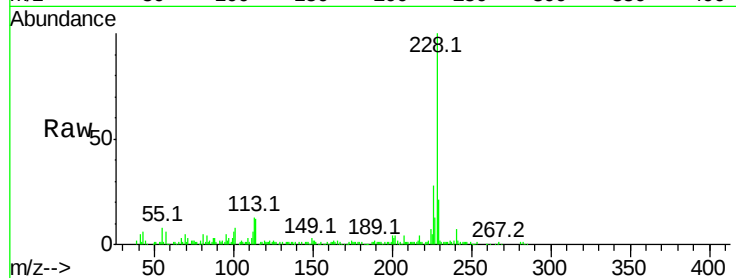
Tot Ion:228 Resp: 107245

Ion Ratio Lower Upper

228 100

226 28.1 25.5 38.3

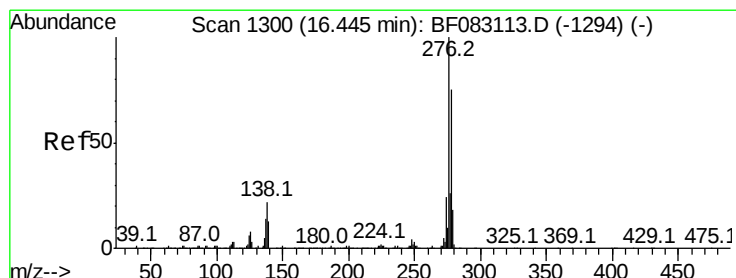
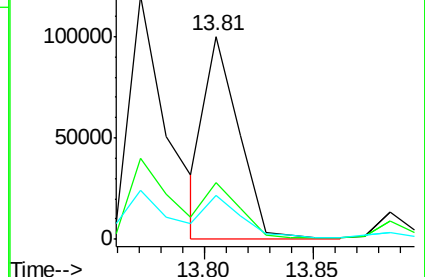
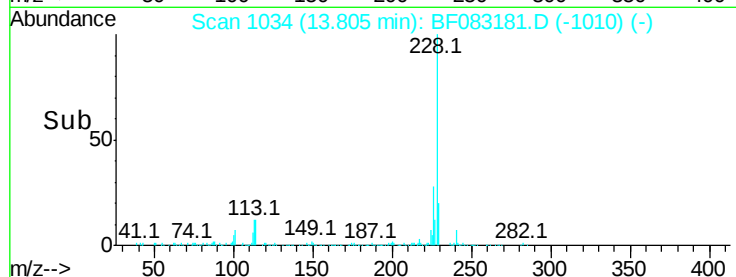
229 21.5 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.45 ng

RT: 16.41 min Scan# 1262

Delta R.T. -0.03 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

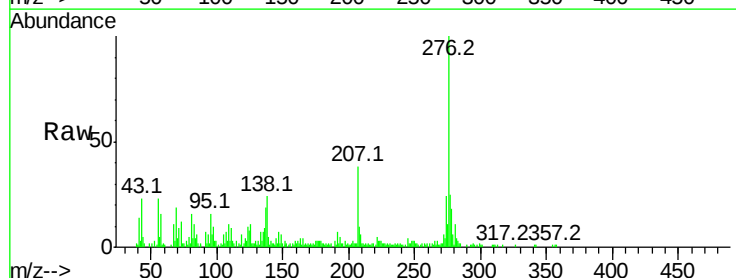
Tgt Ion:276 Resp: 62701

Ion Ratio Lower Upper

276 100

138 21.4 18.0 27.0

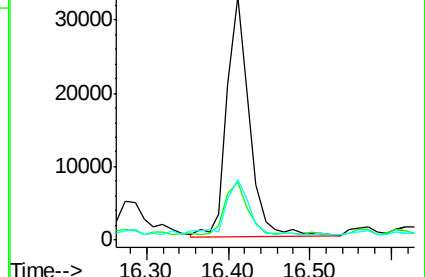
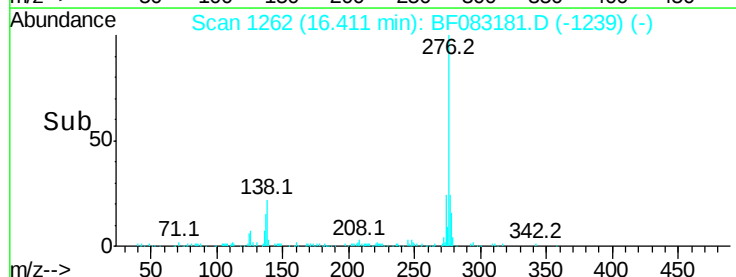
277 27.4 20.2 30.4

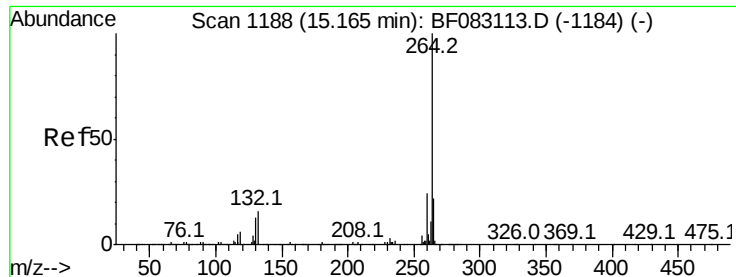


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.15 min Scan# 1152

Delta R.T. -0.01 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

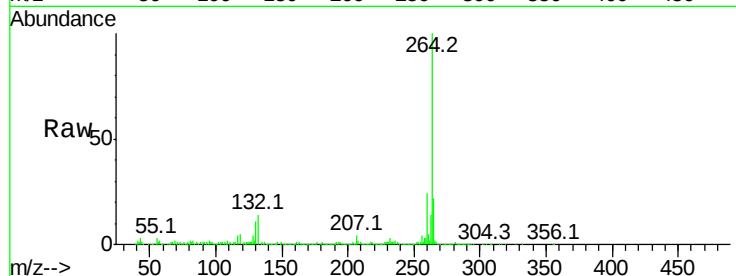
Tot Ion:264 Resp: 412572

Ion Ratio Lower Upper

264 100

260 24.1 19.1 28.7

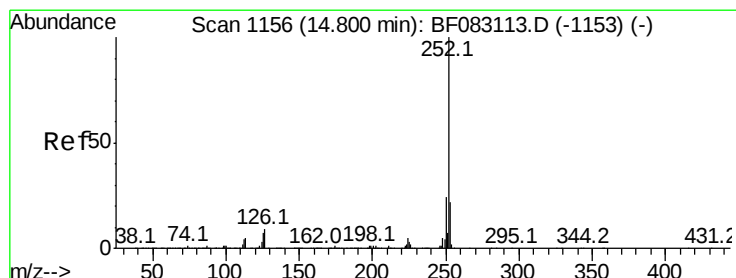
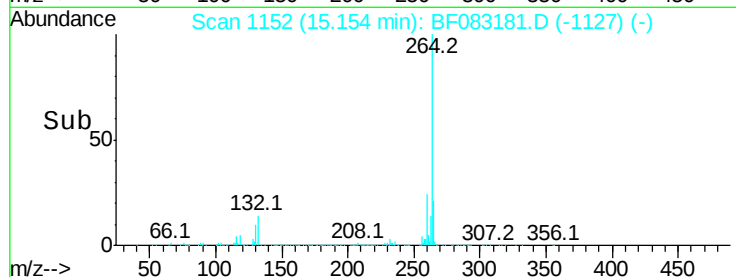
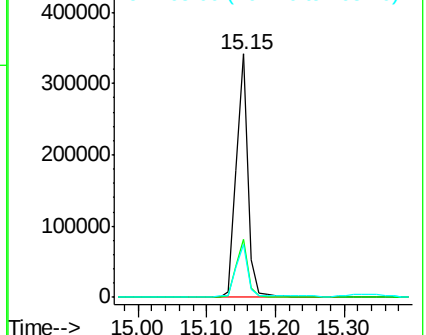
265 21.7 18.2 27.4



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



#87

Benzo(b)fluoranthene

Concen: 6.93 ng

RT: 14.78 min Scan# 1119

Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

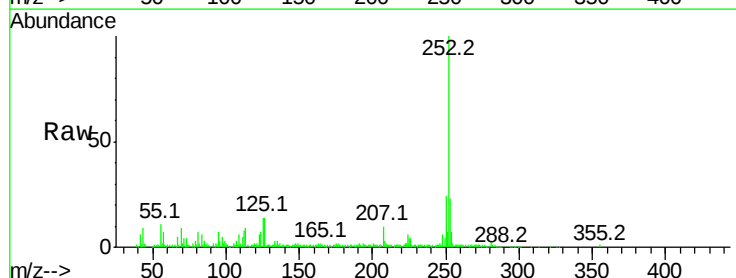
Tgt Ion:252 Resp: 195271

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

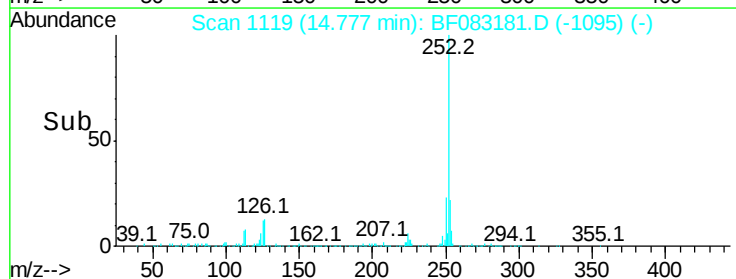
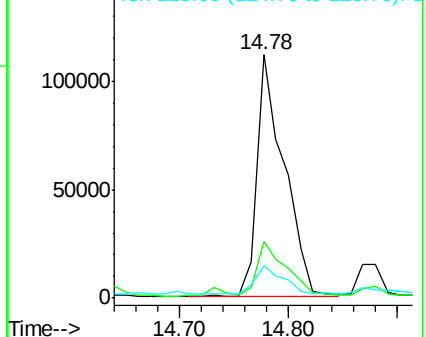
125 13.6 5.6 8.4#

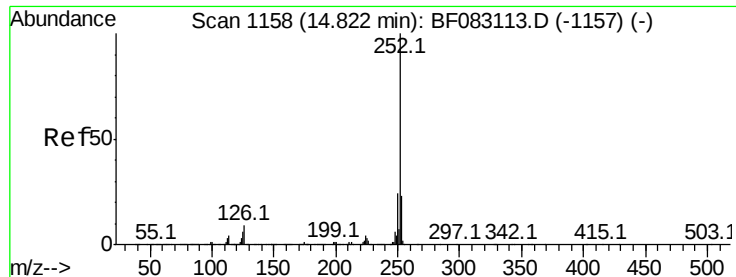


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 9.30 ng

RT: 14.78 min Scan# 1119

Delta R.T. -0.05 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

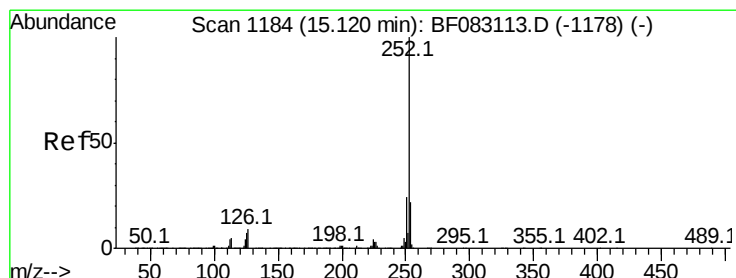
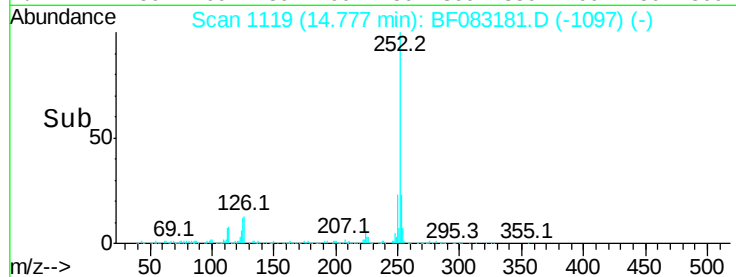
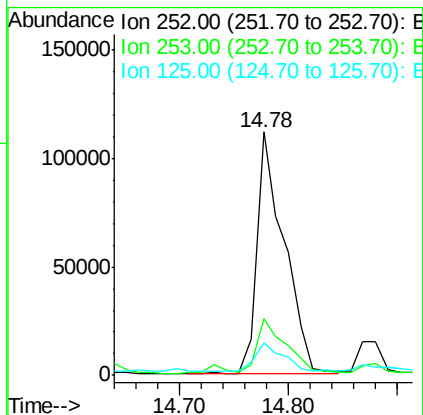
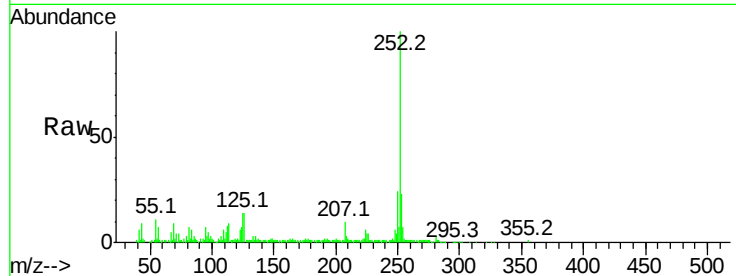
Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

Tot Ion:252	Resp:	195271
Ion Ratio	Lower	Upper
252	100	
253	23.2	18.2 27.2
125	13.6	6.8 10.2#



#89

Benzo(a)pyrene

Concen: 4.36 ng

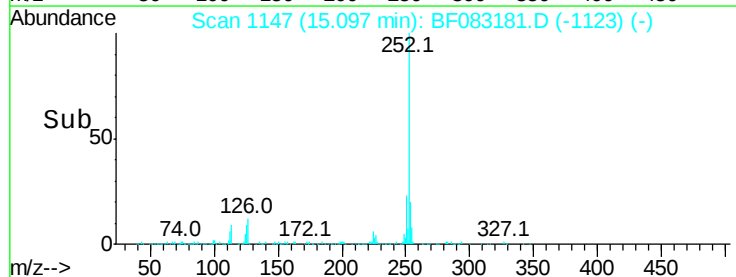
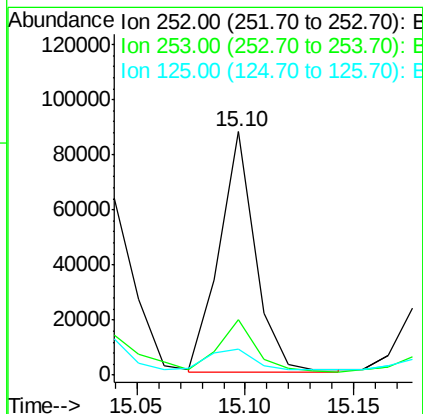
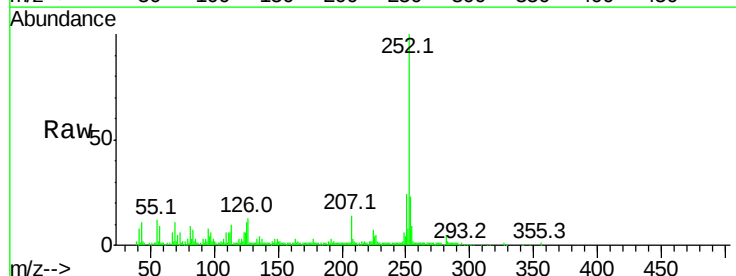
RT: 15.10 min Scan# 1147

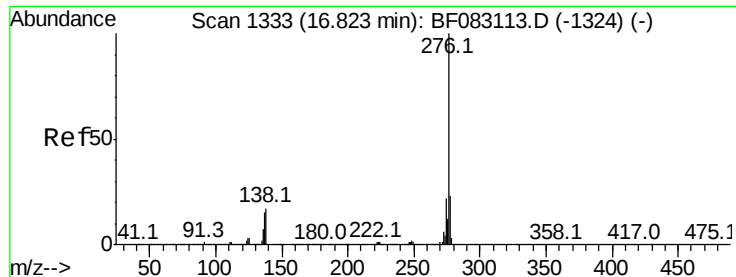
Delta R.T. -0.02 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Tgt Ion:252	Resp:	101514
Ion Ratio	Lower	Upper
252	100	
253	22.5	17.5 26.3
125	10.7	5.4 8.0#





#91

Benzo(a,h,i)perylene

Concen: 2.93 ng

RT: 16.79 min Scan# 1295

Delta R.T. -0.03 min

Lab File: BF083181.D

Acq: 23 Nov 2015 2:04

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

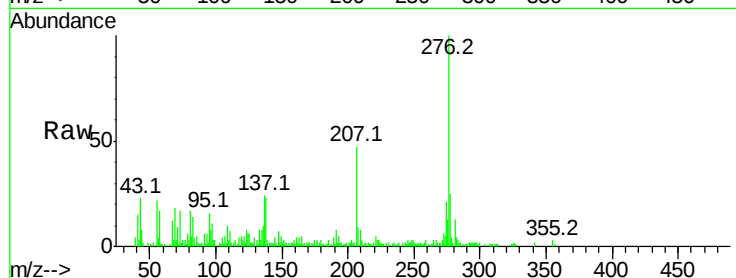
Tot Ion:276 Resp: 60506

Ion Ratio Lower Upper

276 100

277 25.0 18.7 28.1

138 23.1 13.9 20.9#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

