

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112315\
 Data File : BF083218.D
 Acq On : 23 Nov 2015 22:07
 Operator : UM/IZ
 Sample : G4512-03RE
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-3

Quant Time: Nov 24 04:37:19 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	6.64	152	210508	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	749305	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	338619	20.00	ng	-0.02
63) Phenanthrene-d10	11.15	188	545099	20.00	ng	-0.02
75) Chrysene-d12	13.77	240	409669	20.00	ng	-0.03
86) Perylene-d12	15.14	264	340259	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	1382457	99.29	ng	-0.03
7) Phenol-d6	6.31	99	1910323	106.04	ng	-0.03
23) Nitrobenzene-d5	7.21	82	1187898	72.44	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	327746	94.61	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	1656286	68.21	ng	-0.02
78) Terphenyl-d14	12.73	244	1194458	68.66	ng	-0.03

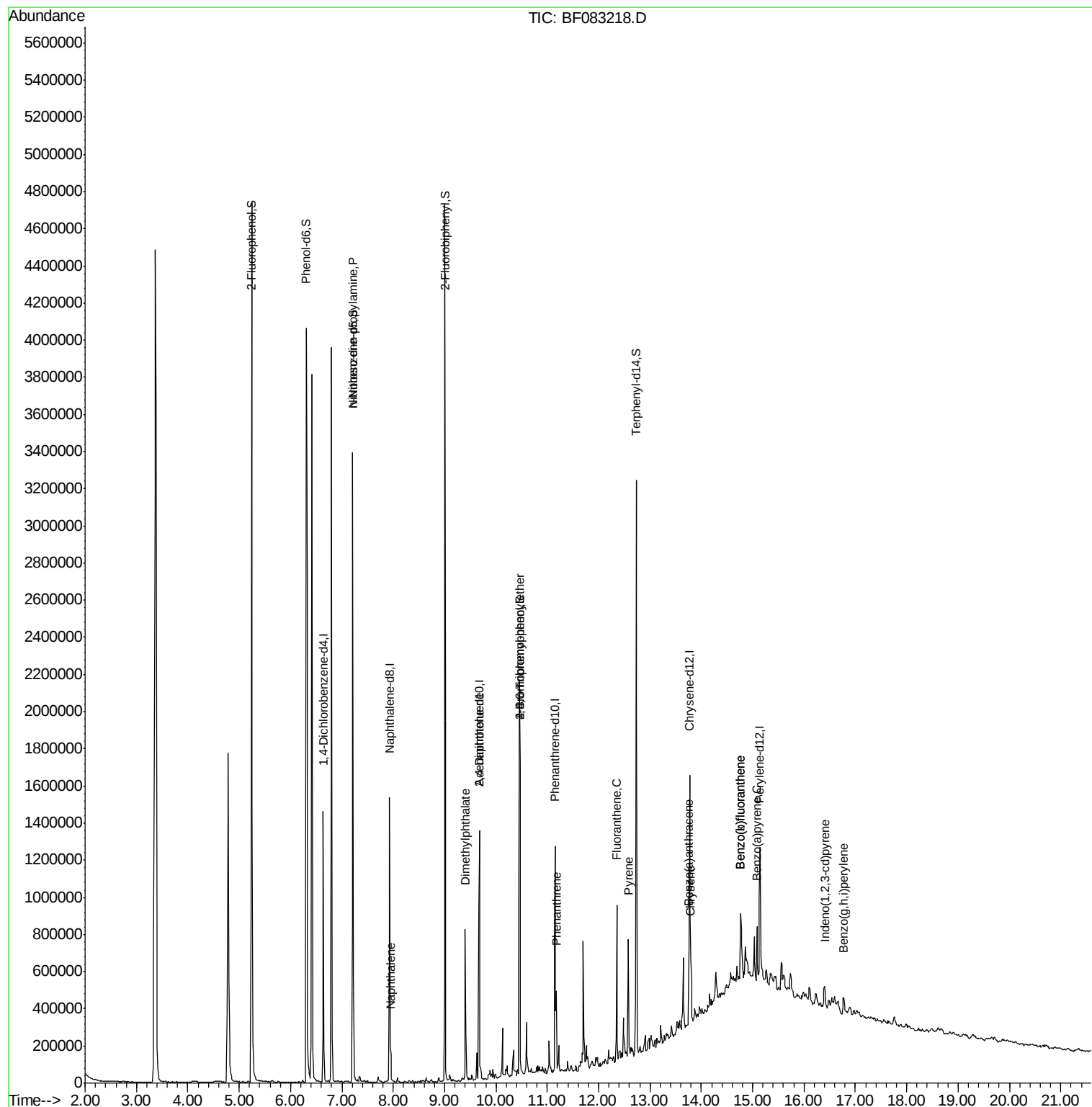
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.31	77	3344	Below Cal	#	4
19) n-Nitroso-di-n-propylamine	7.21	70	165443	13.20	ng	77
31) Naphthalene	7.95	128	88700	2.19	ng	98
49) Dimethylphthalate	9.40	163	320454	12.29	ng	99
56) 2,4-Dinitrotoluene	9.68	165	43435	5.86	ng	11
66) 4-Bromophenyl-phenylether	10.47	248	21807	3.61	ng	1
70) Phenanthrene	11.18	178	209639	6.68	ng	96
74) Fluoranthene	12.35	202	328175	10.21	ng	98
77) Pyrene	12.58	202	308812	11.03	ng	97
80) Benzo(a)anthracene	13.76	228	173884	6.86	ng	95
82) Chrysene	13.79	228	144137	6.13	ng	95
85) Indeno(1,2,3-cd)pyrene	16.40	276	76365	3.57	ng	98
87) Benzo(b)fluoranthene	14.77	252	235877	10.15	ng	92
88) Benzo(k)fluoranthene	14.77	252	235694	13.61	ng	94
89) Benzo(a)pyrene	15.09	252	124809	6.50	ng	94
91) Benzo(g,h,i)perylene	16.78	276	74400	4.37	ng	95

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

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Quant Time: Nov 24 04:37:19 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

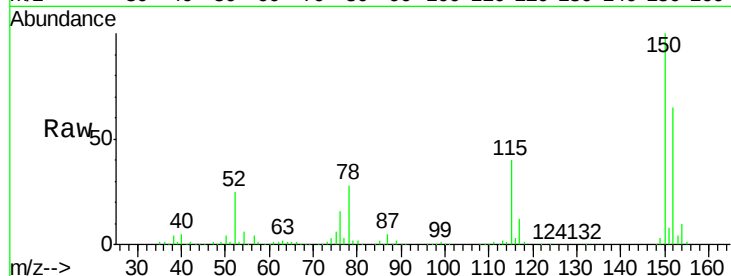




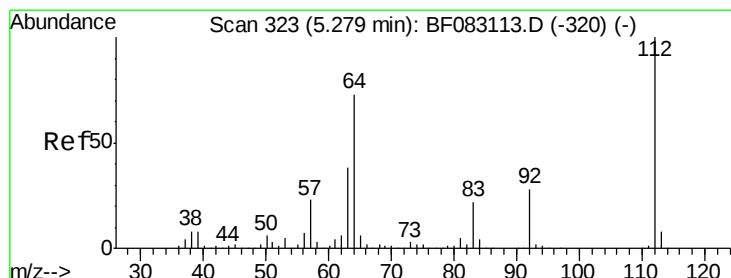
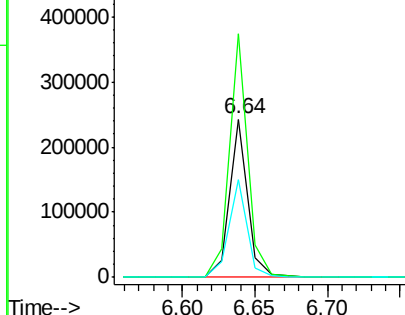
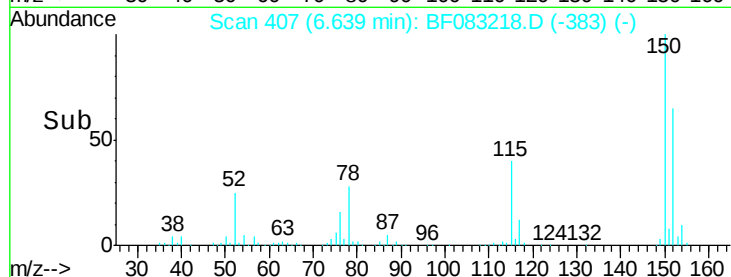
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.64 min Scan# 407
 Delta R.T. -0.02 min
 Lab File: BF083218.D
 Acq: 23 Nov 2015 22:07

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-3

Tgt Ion:152 Resp: 210508
 Ion Ratio Lower Upper
 152 100
 150 153.7 125.8 188.8
 115 61.9 46.9 70.3

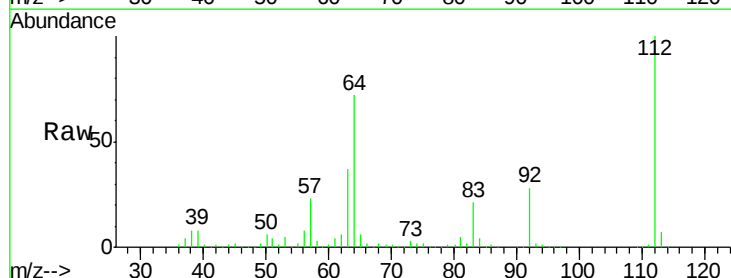


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

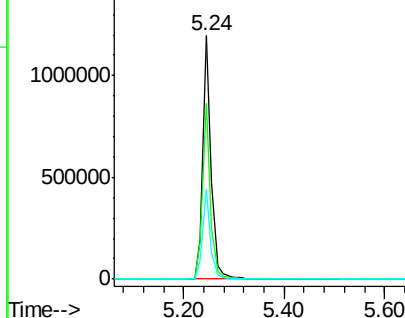
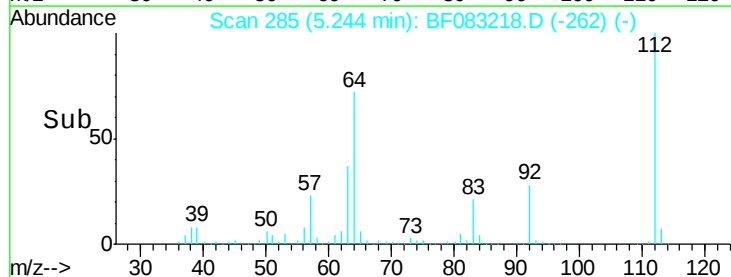


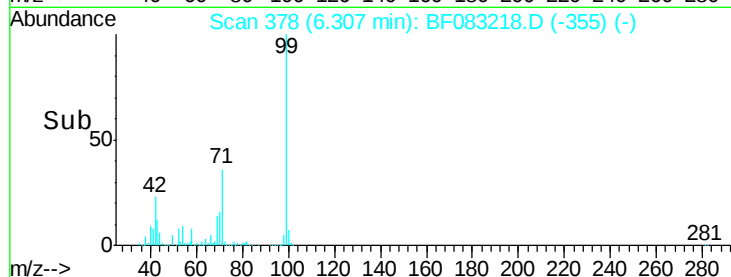
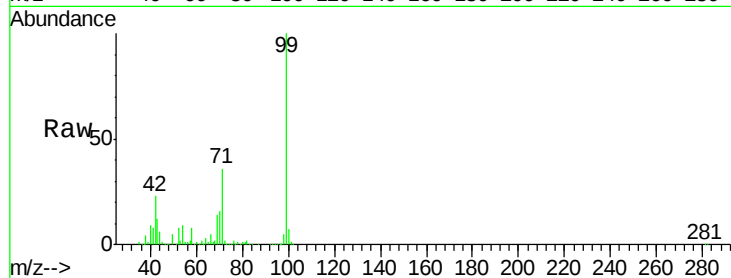
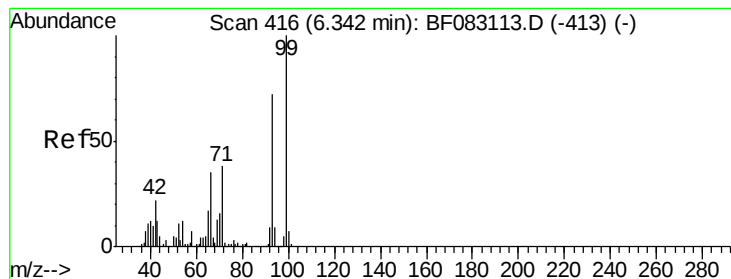
#5
 2-Fluorophenol
 Concen: 99.29 ng
 RT: 5.24 min Scan# 285
 Delta R.T. -0.03 min
 Lab File: BF083218.D
 Acq: 23 Nov 2015 22:07

Tgt Ion:112 Resp: 1382457
 Ion Ratio Lower Upper
 112 100
 64 72.4 58.4 87.6
 63 37.1 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





#7

Phenol-d6

Concen: 106.04 ng

RT: 6.31 min Scan# 378

Delta R.T. -0.03 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-3

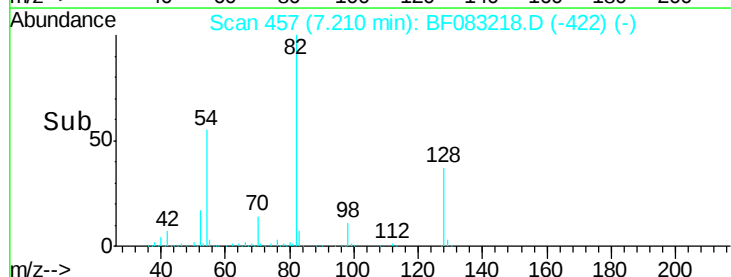
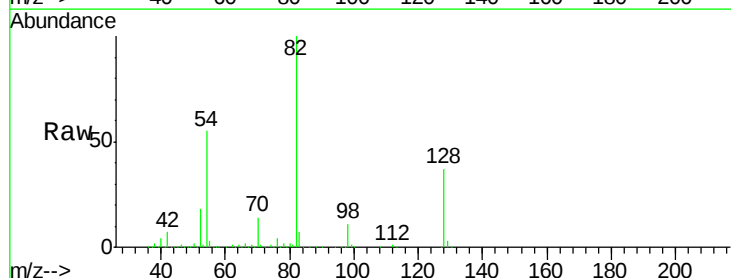
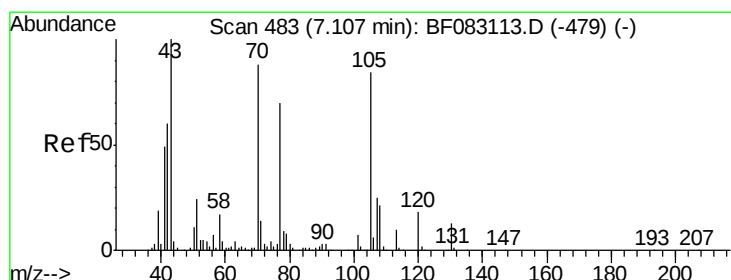
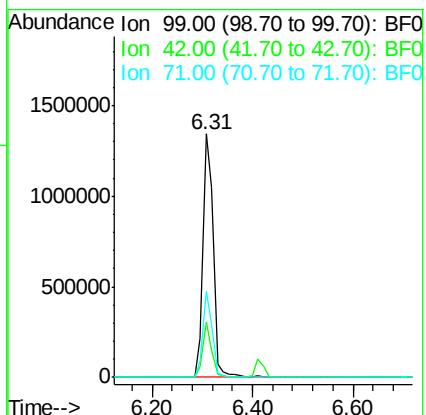
Tgt Ion: 99 Resp: 1910323

Ion Ratio Lower Upper

99 100

42 23.0 17.7 26.5

71 35.6 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 13.20 ng

RT: 7.21 min Scan# 457

Delta R.T. 0.10 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Tgt Ion: 70 Resp: 165443

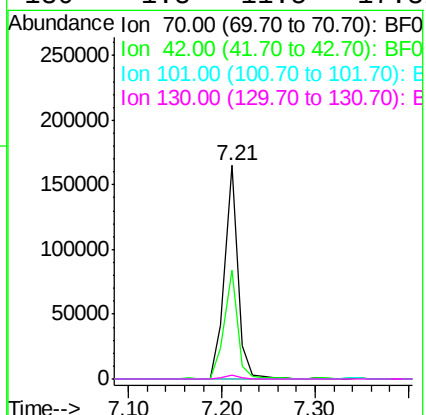
Ion Ratio Lower Upper

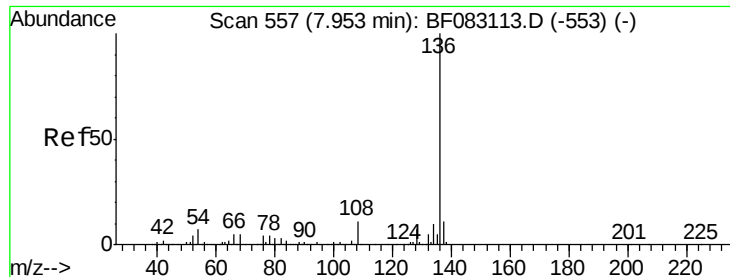
70 100

42 50.8 54.5 81.7#

101 0.0 6.6 9.8#

130 1.8 11.5 17.3#

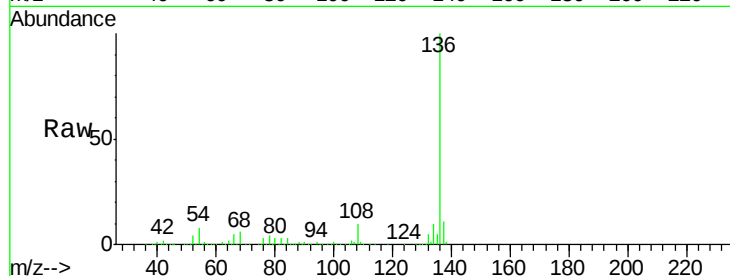




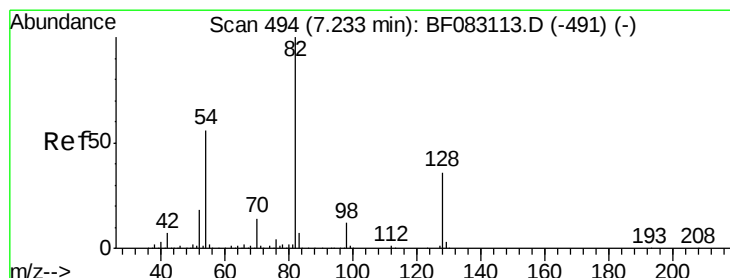
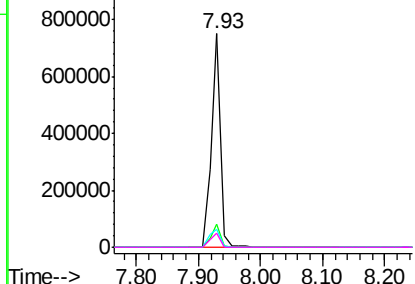
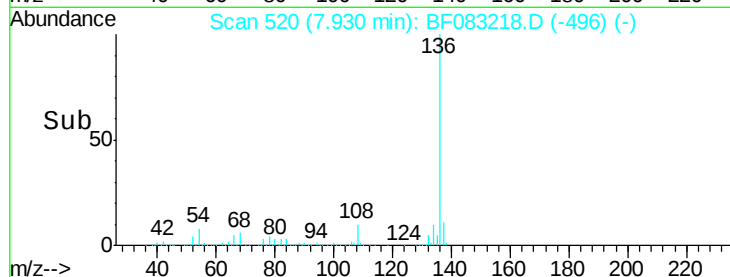
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.93 min Scan# 520
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-3

Tgt Ion:	136	Resp:	749305
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.7	13.1
54	8.4	5.8	8.6
68	6.3	3.8	5.8#

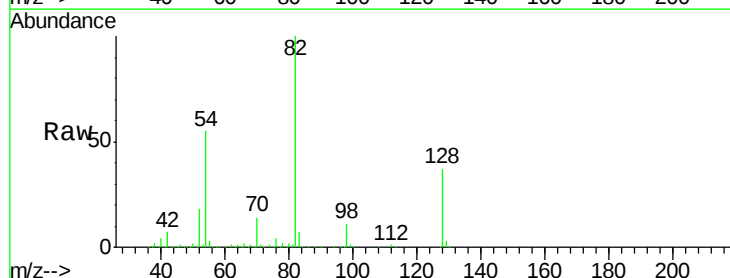


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

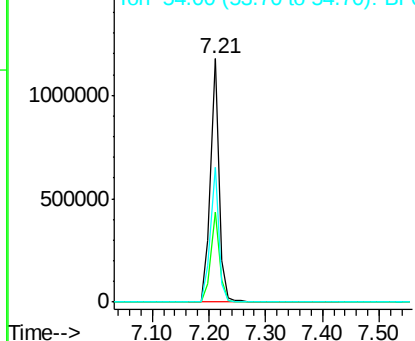
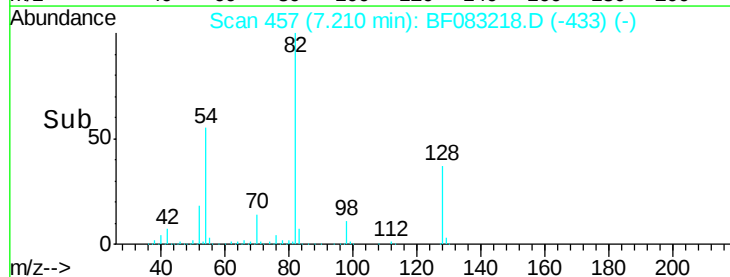


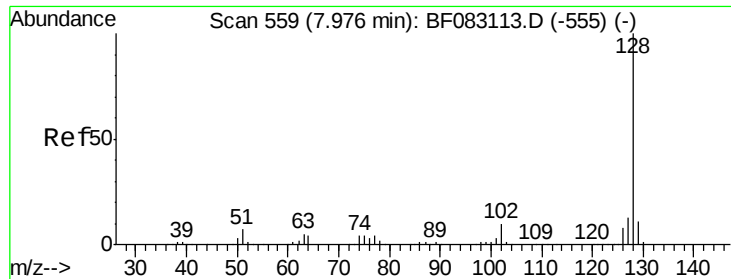
#23
Nitrobenzene-d5
Concen: 72.44 ng
RT: 7.21 min Scan# 457
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Tgt Ion:	82	Resp:	1187898
Ion	Ratio	Lower	Upper
82	100		
128	37.0	28.5	42.7
54	55.4	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

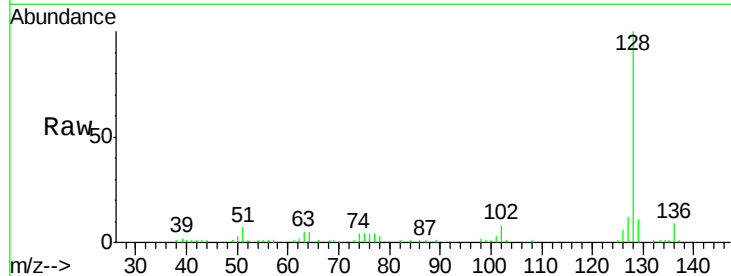




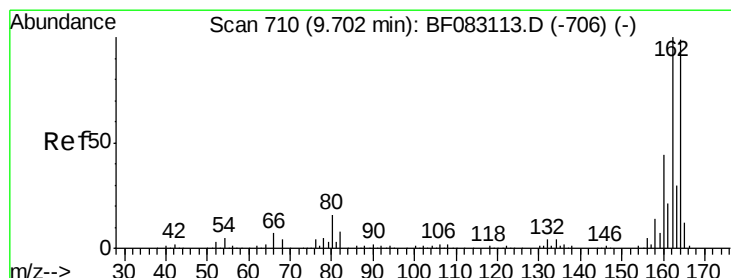
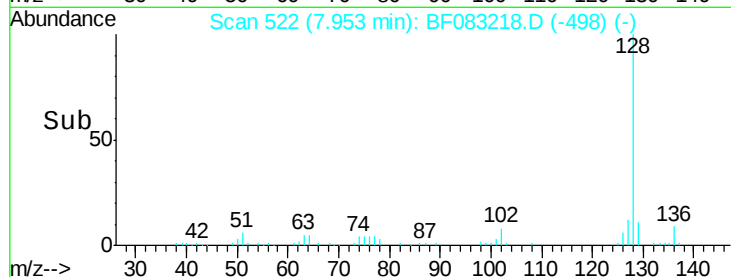
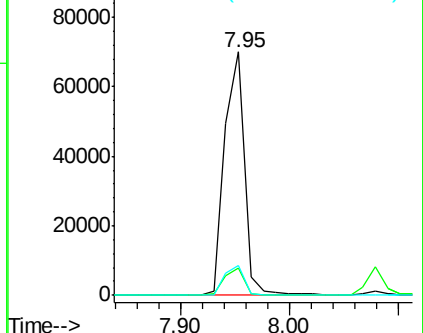
#31
Naphthalene
Concen: 2.19 ng
RT: 7.95 min Scan# 522
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-3

Tgt Ion:128 Resp: 88700
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.4
127 12.2 10.6 15.8

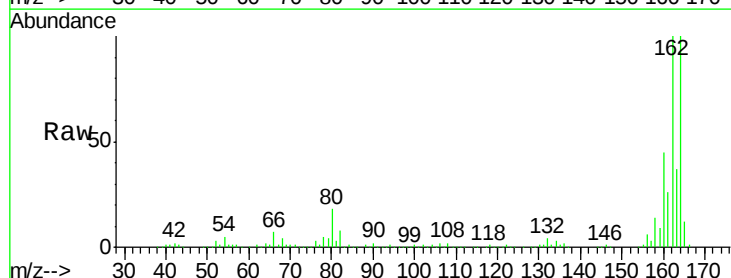


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

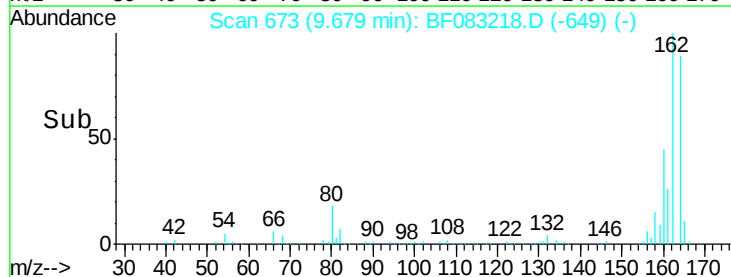
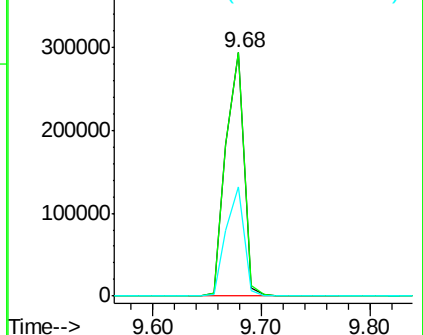


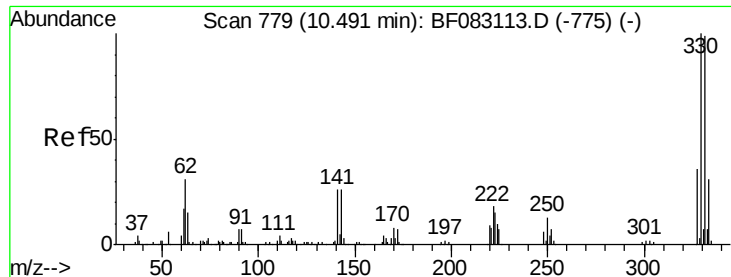
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.68 min Scan# 673
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Tgt Ion:164 Resp: 338619
Ion Ratio Lower Upper
164 100
162 100.1 81.2 121.8
160 44.8 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

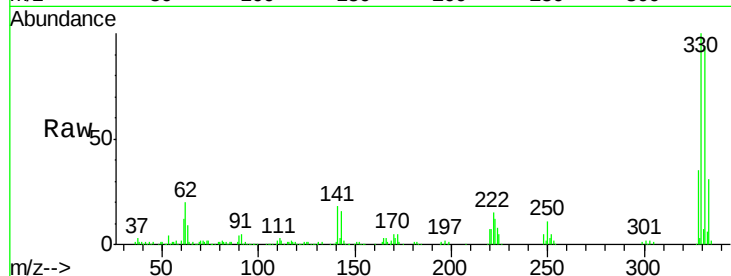




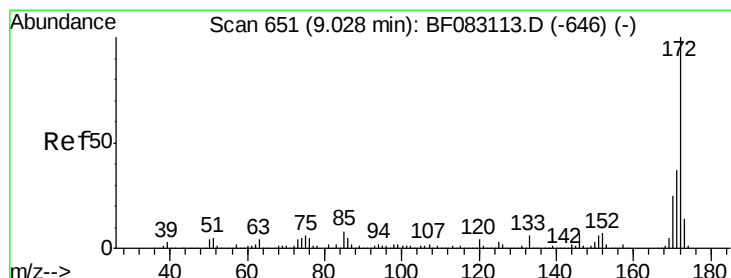
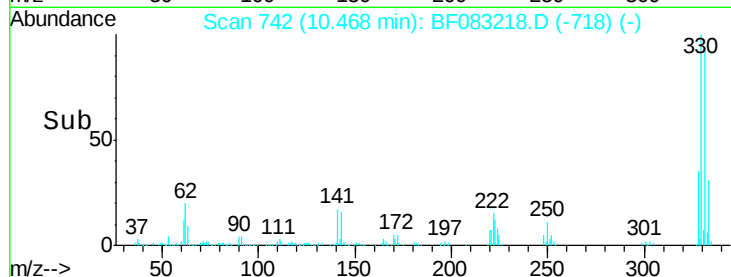
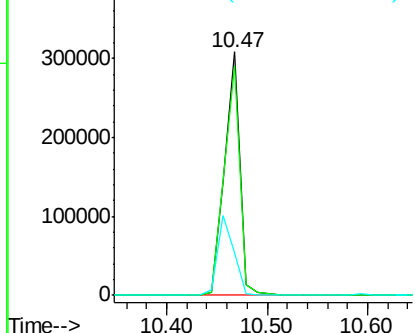
#41
 2,4,6-Tribromophenol
 Concen: 94.61 ng
 RT: 10.47 min Scan# 742
 Delta R.T. -0.02 min
 Lab File: BF083218.D
 Acq: 23 Nov 2015 22:07

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-3

Tgt Ion:330 Resp: 327746
 Ion Ratio Lower Upper
 330 100
 332 96.3 77.7 116.5
 141 35.6 29.7 44.5

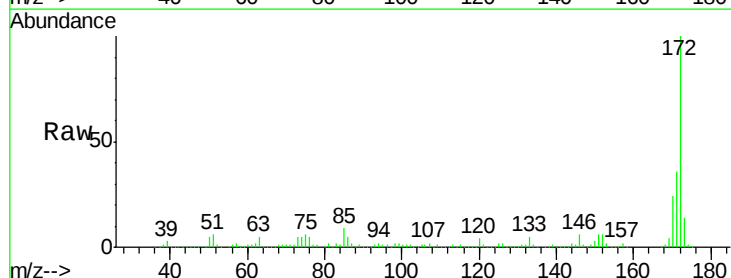


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

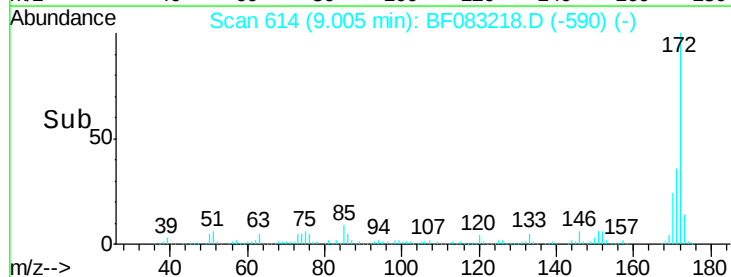
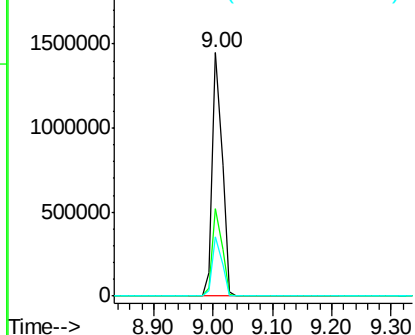


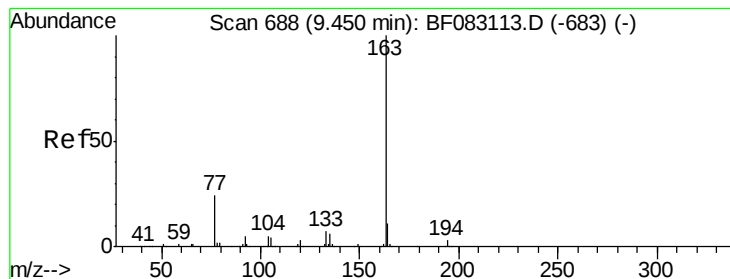
#44
 2-Fluorobiphenyl
 Concen: 68.21 ng
 RT: 9.00 min Scan# 614
 Delta R.T. -0.02 min
 Lab File: BF083218.D
 Acq: 23 Nov 2015 22:07

Tgt Ion:172 Resp: 1656286
 Ion Ratio Lower Upper
 172 100
 171 35.8 29.5 44.3
 170 24.2 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: 12.29 ng

RT: 9.40 min Scan# 649

Delta R.T. -0.05 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-3

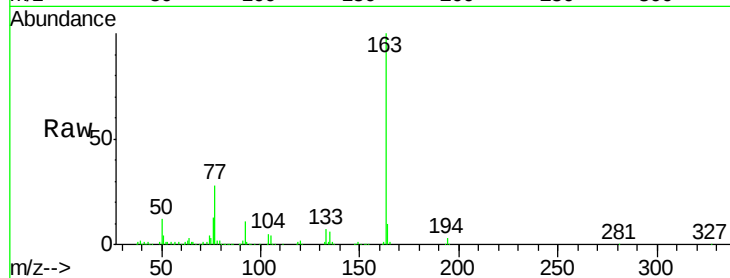
Tgt Ion:163 Resp: 320454

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

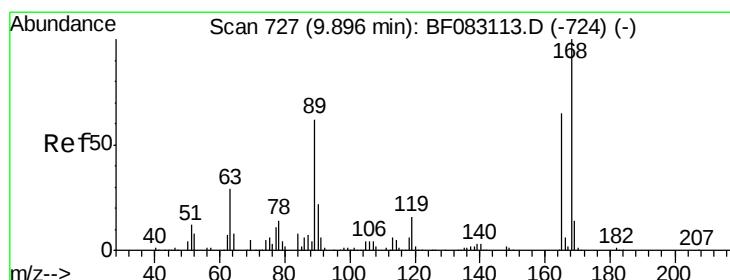
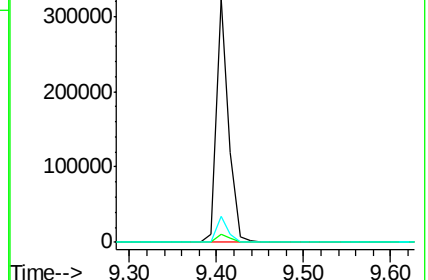
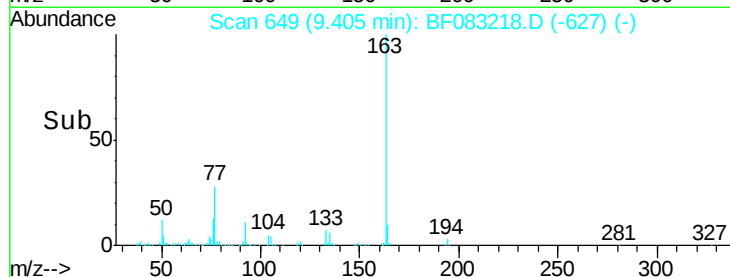
164 10.4 8.6 12.8



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: 5.86 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.22 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Tgt Ion:165 Resp: 43435

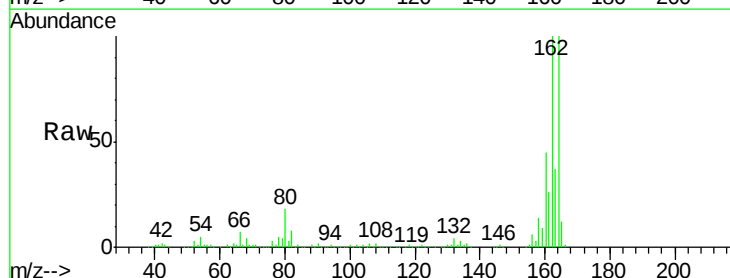
Ion Ratio Lower Upper

165 100

63 2.2 54.5 81.7#

89 2.4 77.3 115.9#

182 0.0 1.8 2.6#

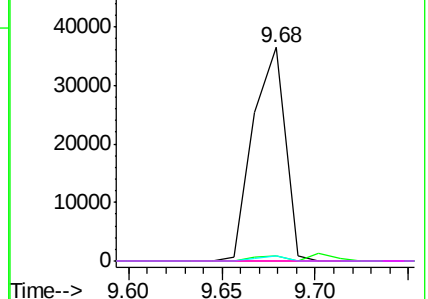
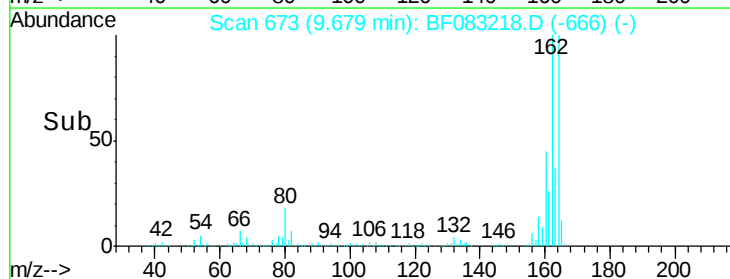


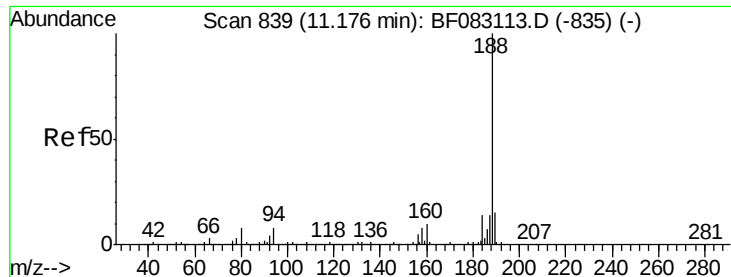
Abundance Ion 165.00 (164.70 to 165.70): E

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

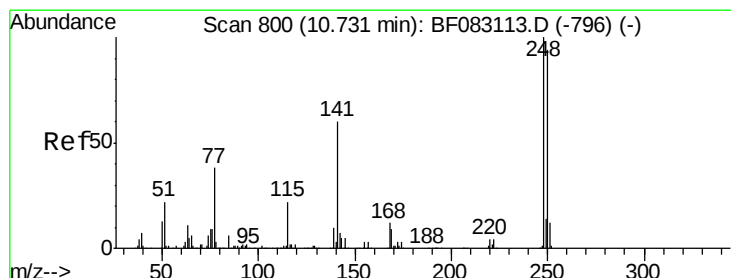
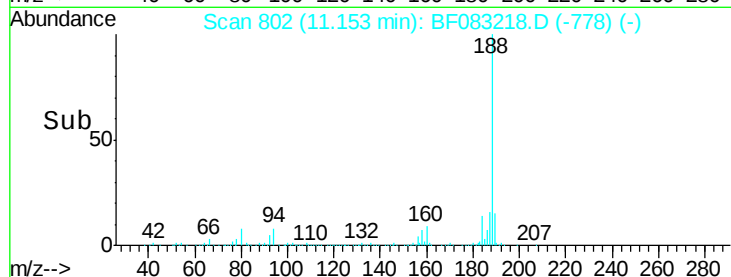
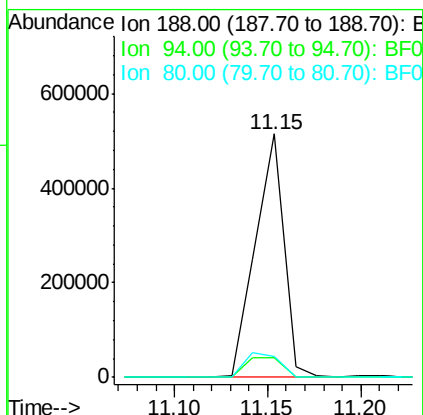
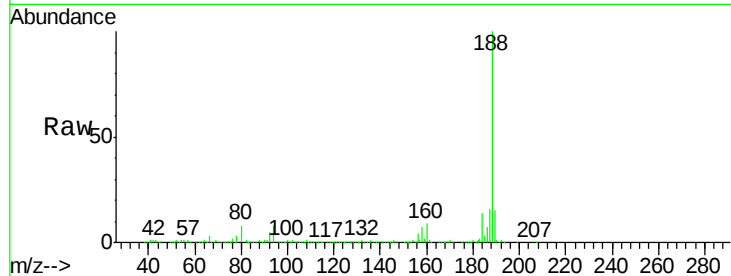




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.15 min Scan# 802
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

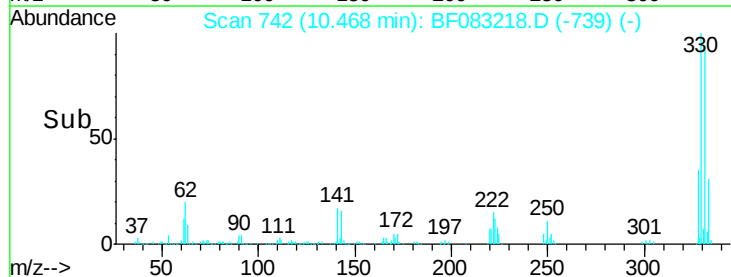
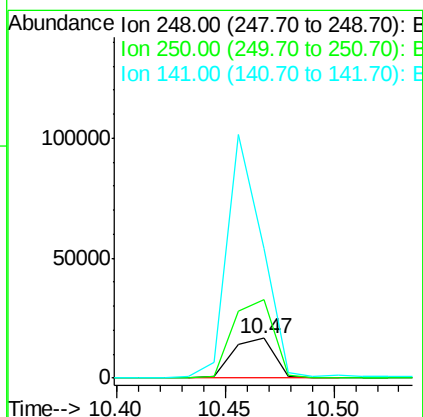
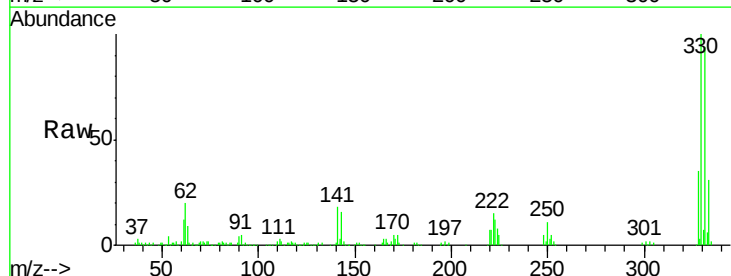
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-3

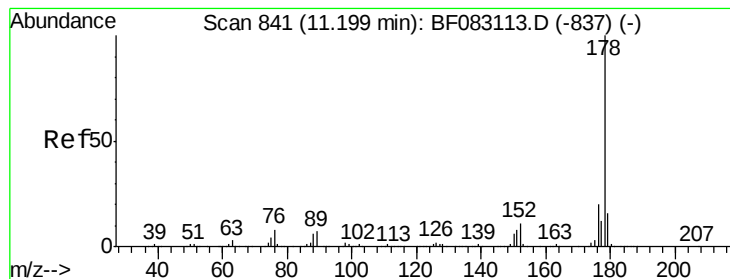
Tgt Ion:188 Resp: 545099
Ion Ratio Lower Upper
188 100
94 7.9 6.0 9.0
80 8.4 6.7 10.1



#66
4-Bromophenyl-phenylether
Concen: 3.61 ng
RT: 10.47 min Scan# 742
Delta R.T. -0.26 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Tgt Ion:248 Resp: 21807
Ion Ratio Lower Upper
248 100
250 196.1 75.4 113.2#
141 327.9 48.1 72.1#





#70

Phenanthrene

Concen: 6.68 ng

RT: 11.18 min Scan# 804

Delta R.T. -0.02 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-3

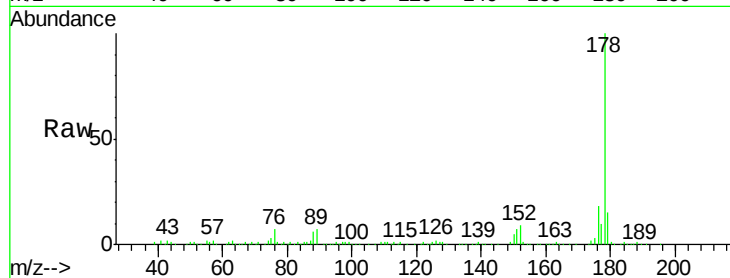
Tgt Ion:178 Resp: 209639

Ion Ratio Lower Upper

178 100

176 18.0 16.2 24.2

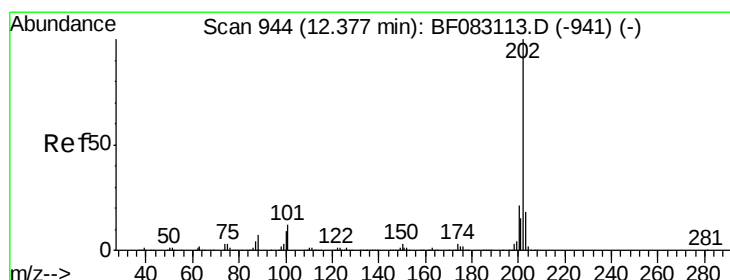
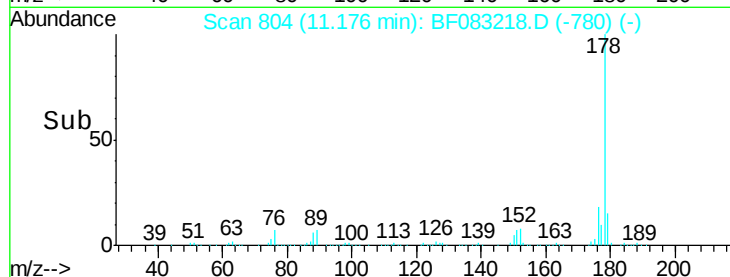
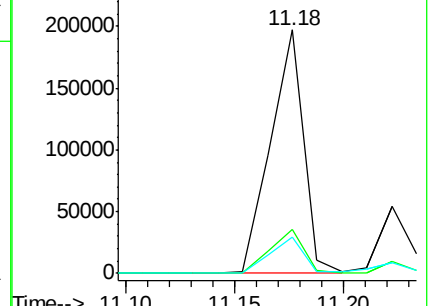
179 14.8 12.8 19.2



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: 10.21 ng

RT: 12.35 min Scan# 907

Delta R.T. -0.02 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

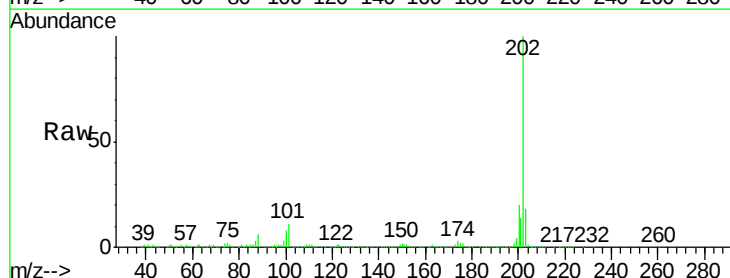
Tgt Ion:202 Resp: 328175

Ion Ratio Lower Upper

202 100

101 11.1 0.0 32.3

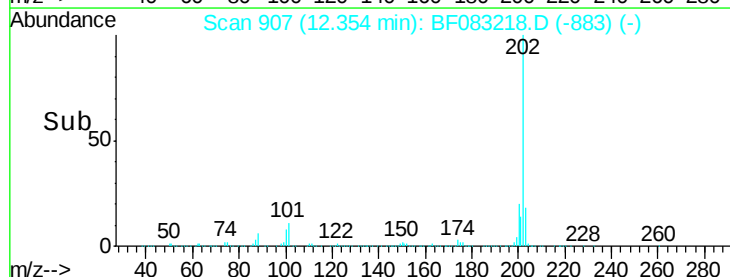
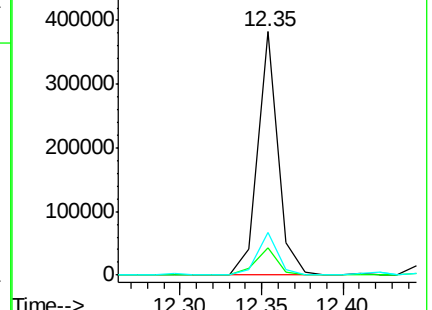
203 17.7 0.0 38.4

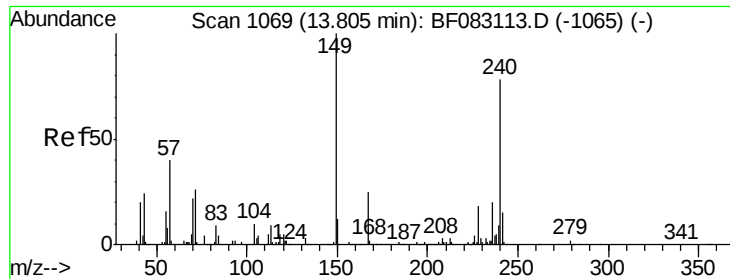


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

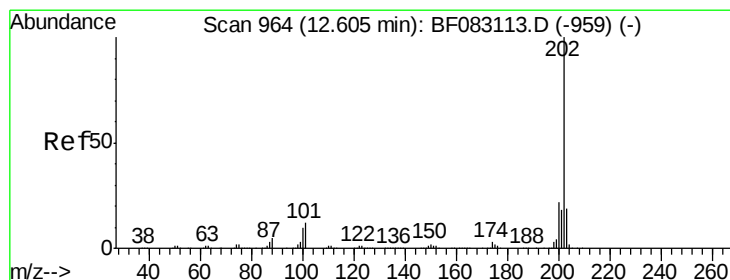
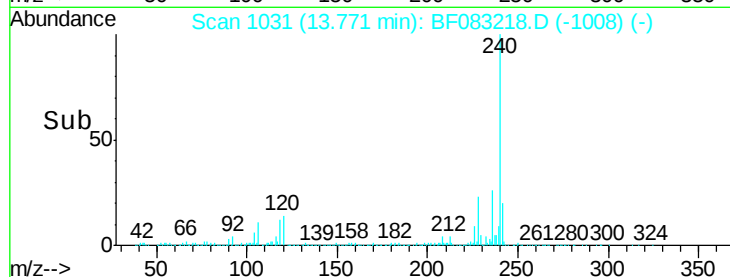
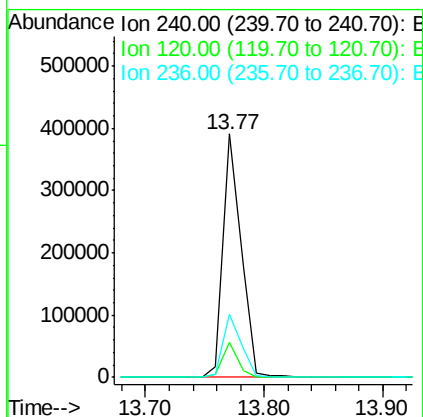
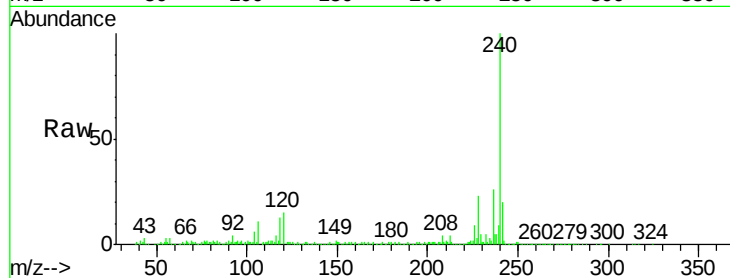




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.77 min Scan# 1031
Delta R.T. -0.03 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

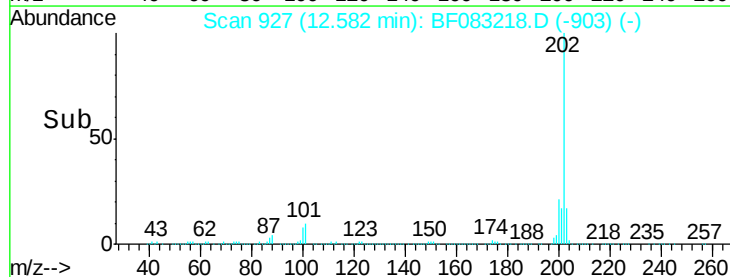
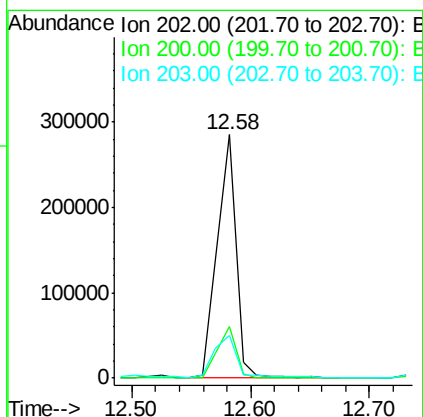
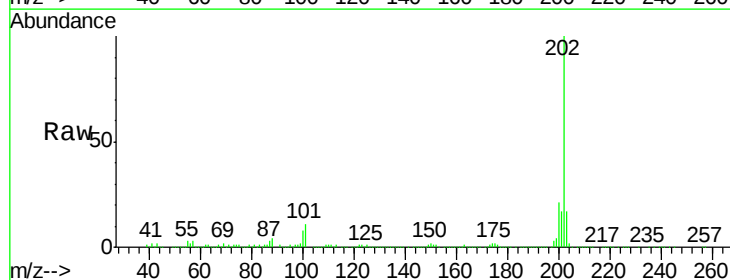
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-3

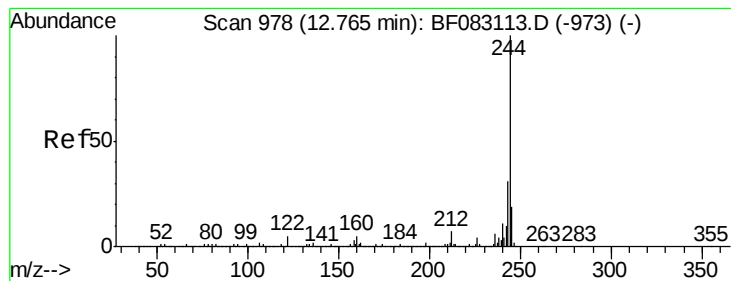
Tgt Ion:240 Resp: 409669
Ion Ratio Lower Upper
240 100
120 14.5 5.4 8.2#
236 26.0 20.6 31.0



#77
Pyrene
Concen: 11.03 ng
RT: 12.58 min Scan# 927
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Tgt Ion:202 Resp: 308812
Ion Ratio Lower Upper
202 100
200 21.2 17.8 26.6
203 17.3 15.0 22.4





#78

Terphenyl-d14

Concen: 68.66 ng

RT: 12.73 min Scan# 940

Delta R.T. -0.03 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-3

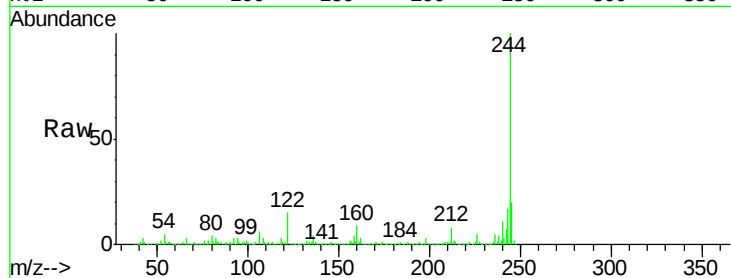
Tgt Ion:244 Resp: 1194458

Ion Ratio Lower Upper

244 100

212 7.9 5.4 8.2

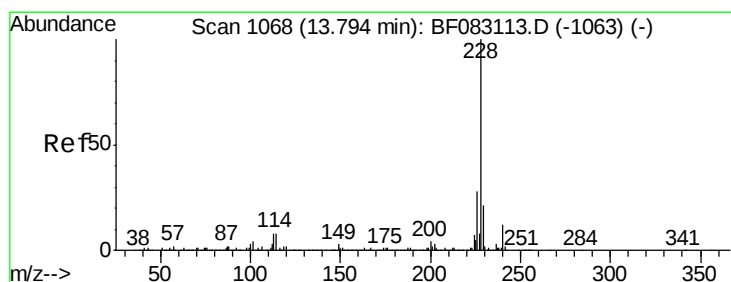
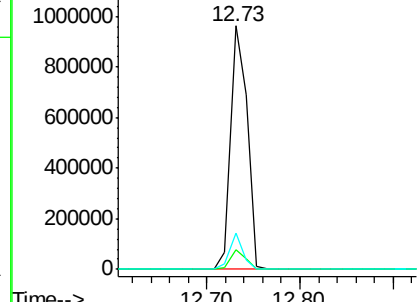
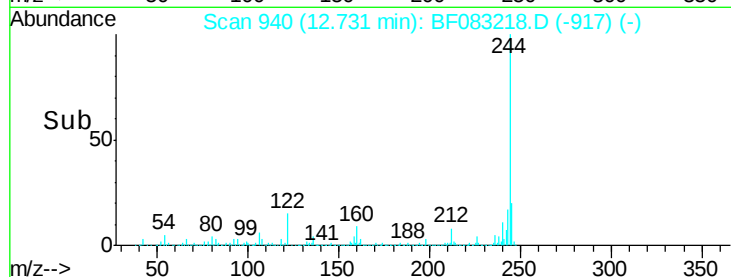
122 15.1 4.3 6.5#



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: 6.86 ng

RT: 13.76 min Scan# 1030

Delta R.T. -0.03 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

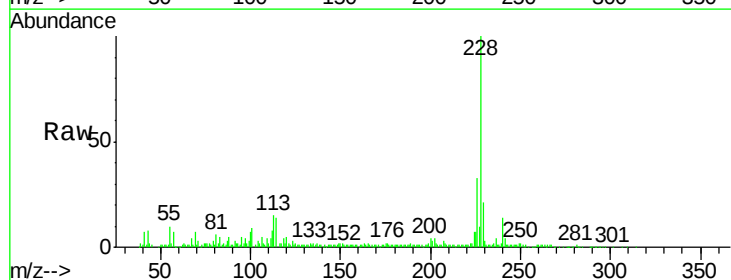
Tgt Ion:228 Resp: 173884

Ion Ratio Lower Upper

228 100

226 32.7 22.6 33.8

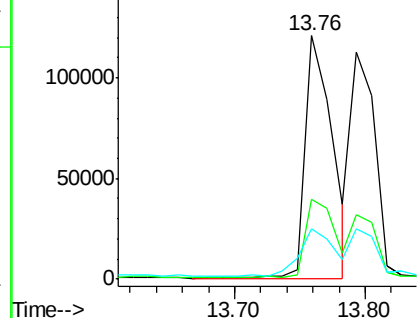
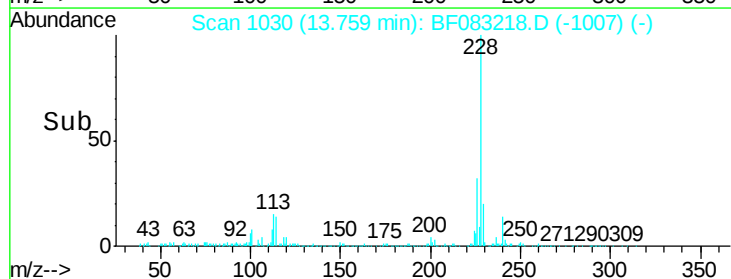
229 20.6 16.6 24.8

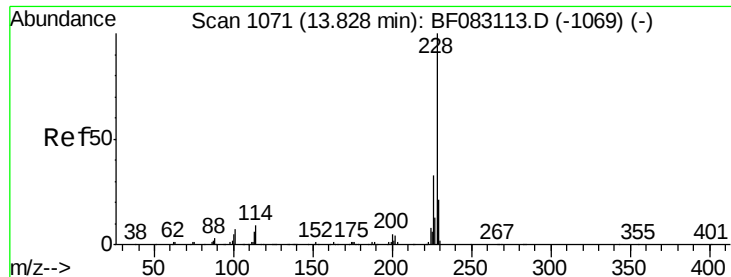


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 6.13 ng

RT: 13.79 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-3

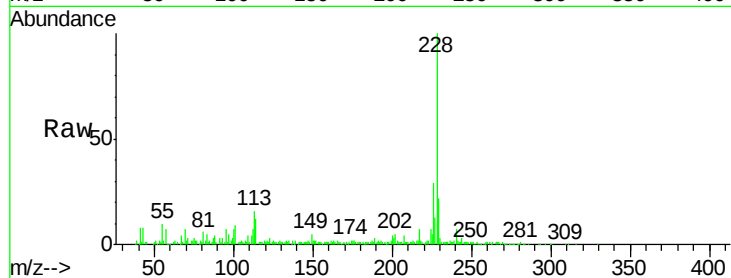
Tgt Ion:228 Resp: 144137

Ion Ratio Lower Upper

228 100

226 28.6 25.5 38.3

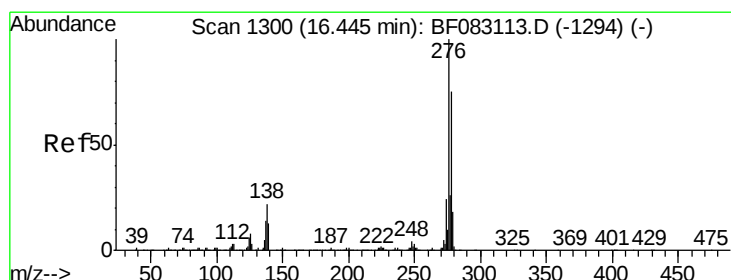
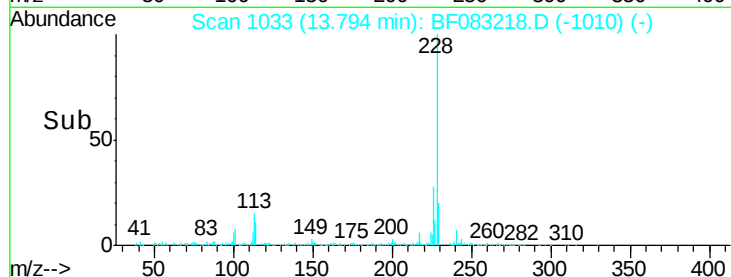
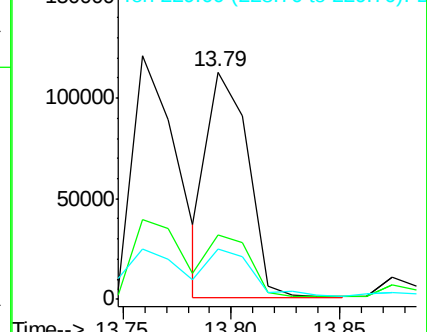
229 22.1 16.6 25.0



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: 3.57 ng

RT: 16.40 min Scan# 1261

Delta R.T. -0.05 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

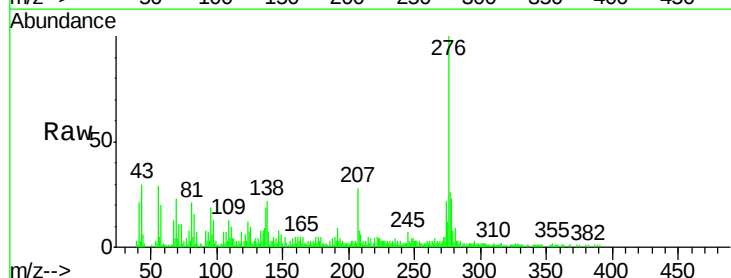
Tgt Ion:276 Resp: 76365

Ion Ratio Lower Upper

276 100

138 21.5 18.0 27.0

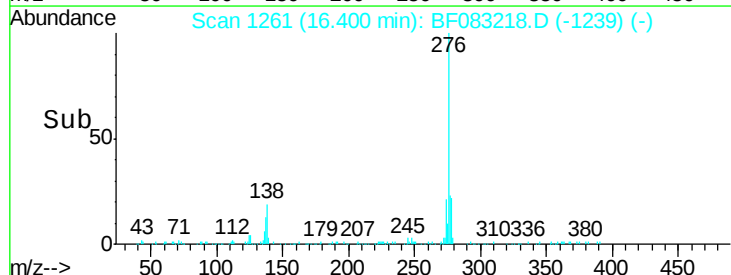
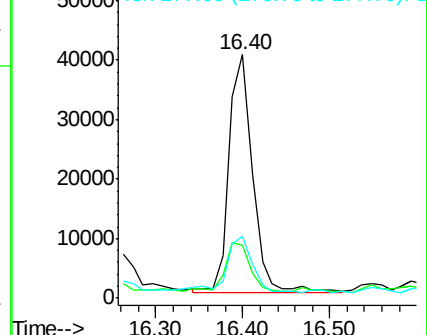
277 26.3 20.2 30.4

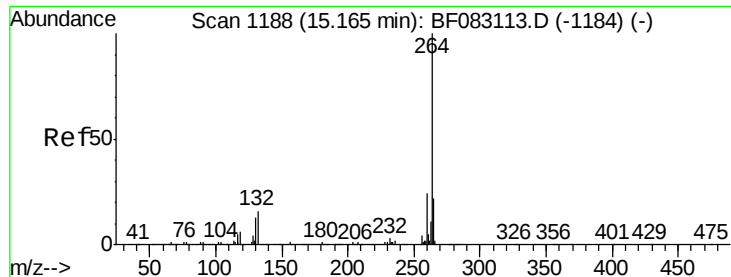


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



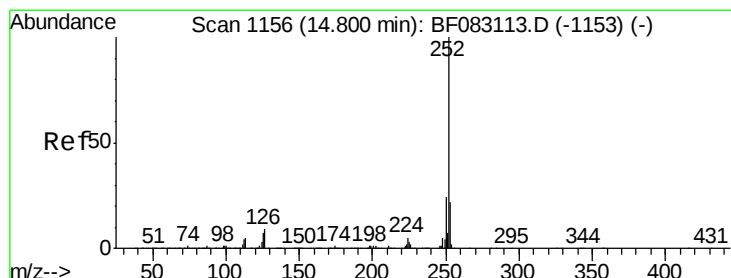
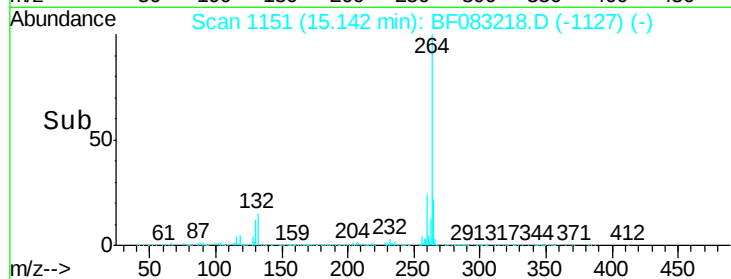
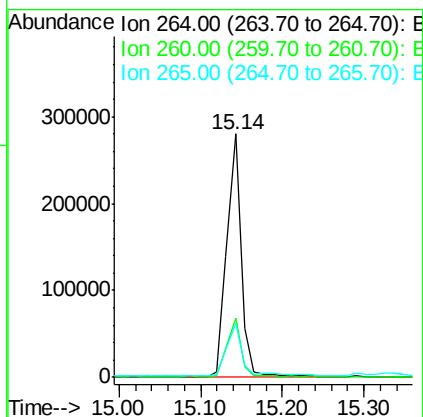
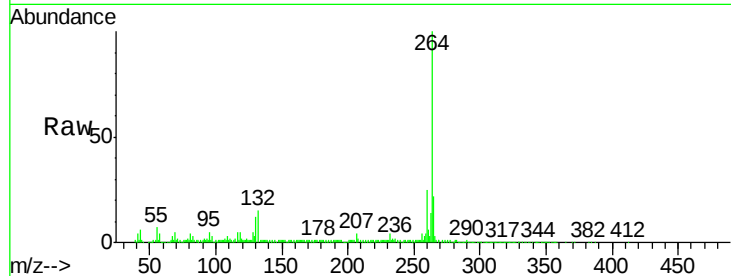


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.14 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-3

Tgt Ion: 264 Resp: 340259

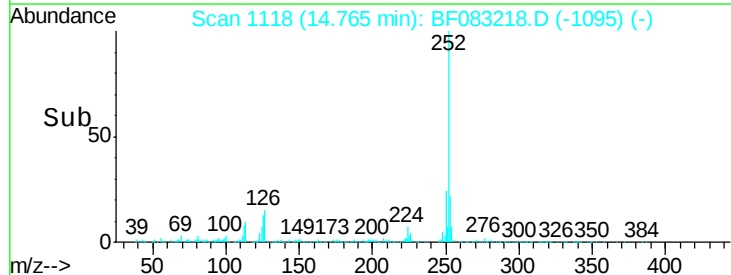
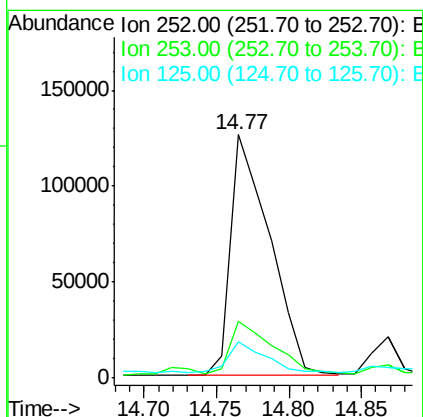
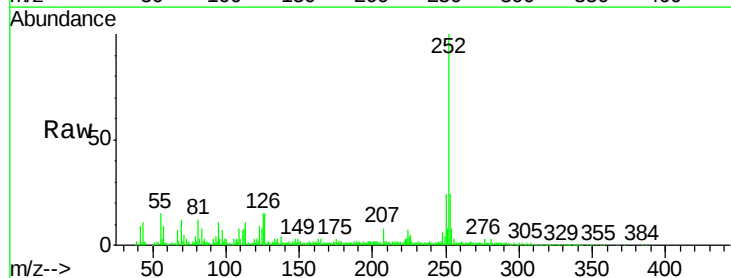
Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.1	28.7
265	22.2	18.2	27.4

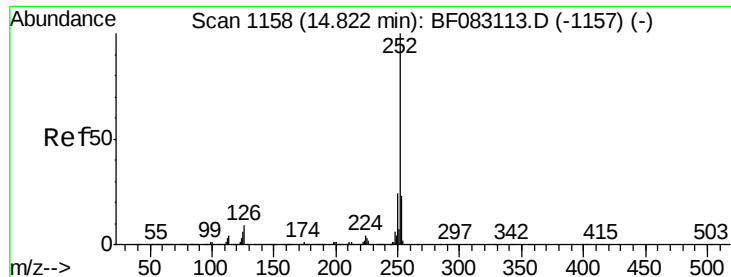


#87
Benzo(b)fluoranthene
Concen: 10.15 ng
RT: 14.77 min Scan# 1118
Delta R.T. -0.03 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Tgt Ion: 252 Resp: 235877

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.7	26.5
125	15.1	5.6	8.4#

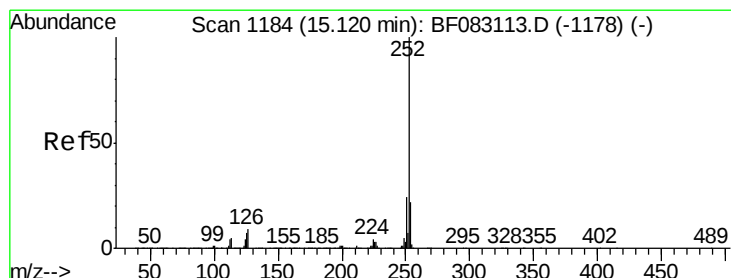
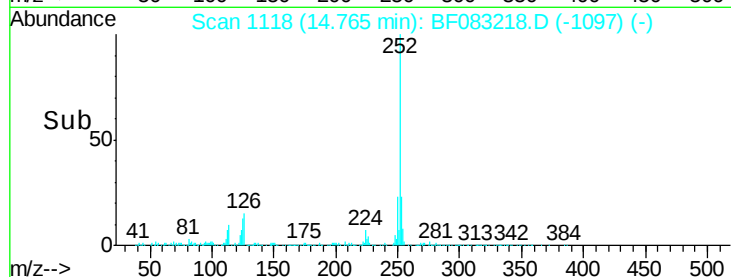
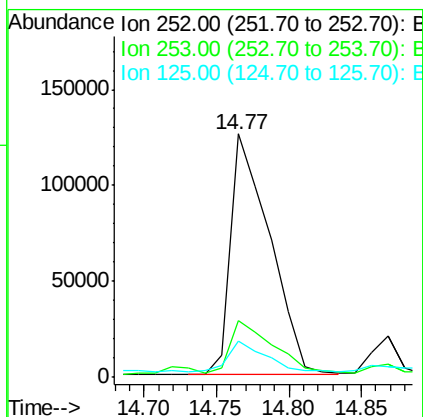
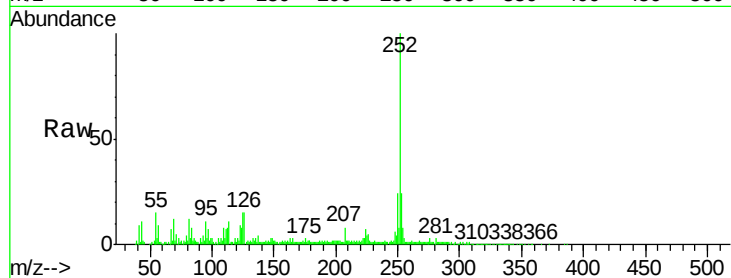




#88
Benzo(k)fluoranthene
Concen: 13.61 ng
RT: 14.77 min Scan# 1118
Delta R.T. -0.06 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

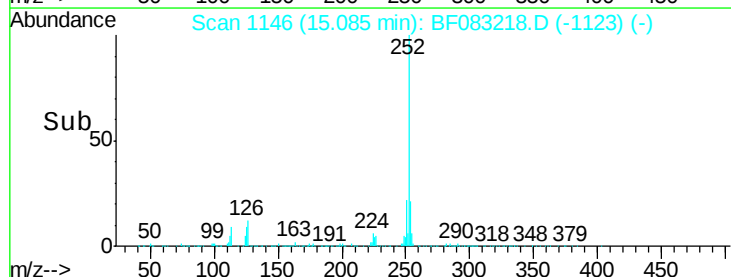
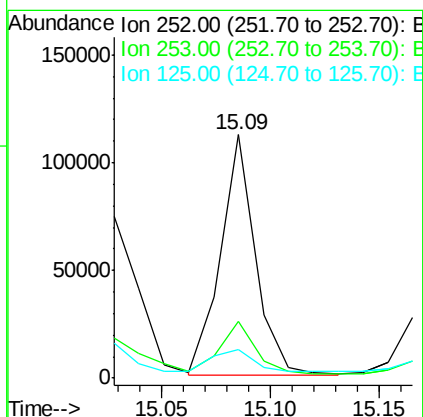
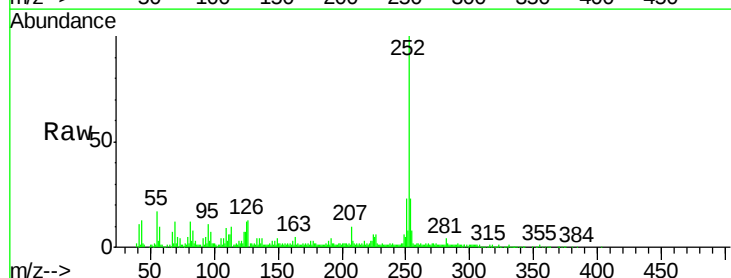
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-3

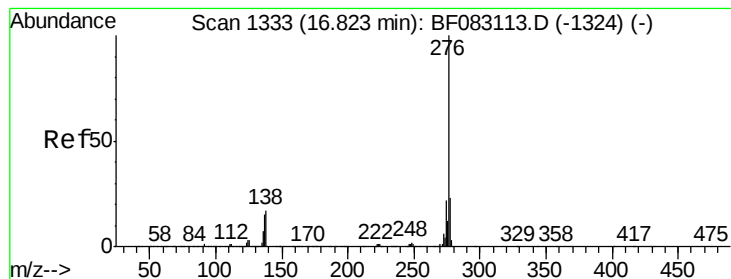
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	15.1	6.8	10.2



#89
Benzo(a)pyrene
Concen: 6.50 ng
RT: 15.09 min Scan# 1146
Delta R.T. -0.03 min
Lab File: BF083218.D
Acq: 23 Nov 2015 22:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	11.8	5.4	8.0





#91

Benzo(g,h,i)perylene

Concen: 4.37 ng

RT: 16.78 min Scan# 1294

Delta R.T. -0.05 min

Lab File: BF083218.D

Acq: 23 Nov 2015 22:07

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-3

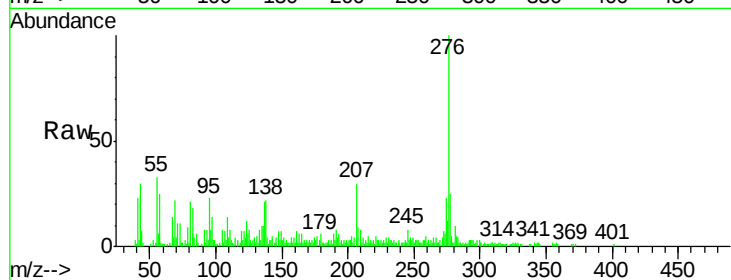
Tgt Ion: 276 Resp: 74400

Ion Ratio Lower Upper

276 100

277 24.6 18.7 28.1

138 21.5 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

