

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112315\
 Data File : BF083216.D
 Acq On : 23 Nov 2015 21:08
 Operator : UM/IZ
 Sample : G4512-01RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-1

Quant Time: Nov 24 04:36:20 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	212872	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	803876	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	370959	20.00	ng	-0.02
63) Phenanthrene-d10	11.15	188	637790	20.00	ng	-0.02
75) Chrysene-d12	13.77	240	471396	20.00	ng	-0.03
86) Perylene-d12	15.14	264	417761	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	1281919	91.04	ng	-0.03
7) Phenol-d6	6.31	99	1796879	98.63	ng	-0.03
23) Nitrobenzene-d5	7.21	82	1117436	63.52	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	350695	92.41	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	1637882	61.57	ng	-0.02
78) Terphenyl-d14	12.73	244	1295052	64.69	ng	-0.03

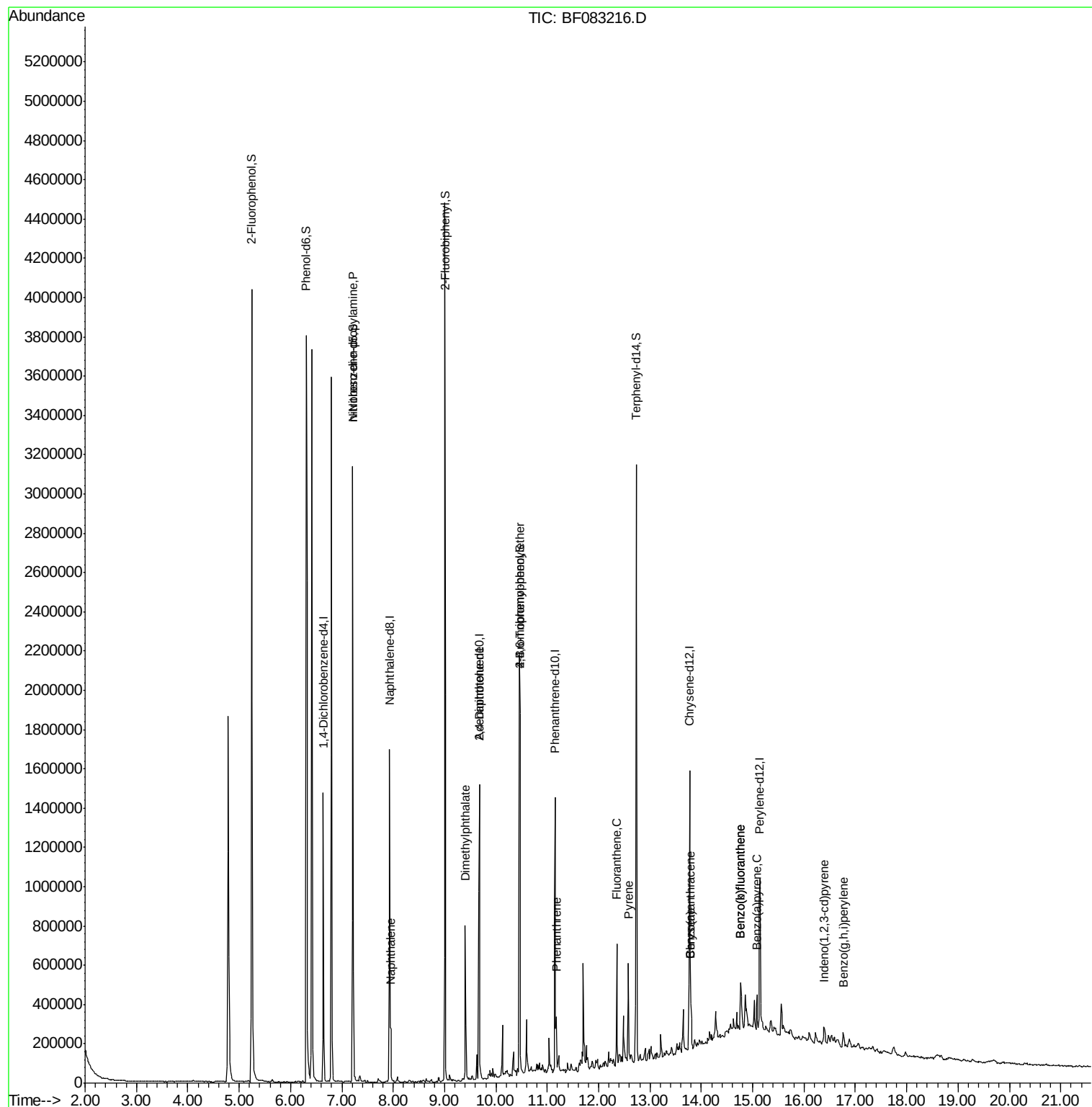
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.32	77	2948	Below Cal	#	30
19) n-Nitroso-di-n-propylamine	7.21	70	150521	11.87	ng	78
31) Naphthalene	7.95	128	152581	3.52	ng	98
49) Dimethylphthalate	9.40	163	321397	11.25	ng	100
56) 2,4-Dinitrotoluene	9.68	165	46856	5.77	ng	11
66) 4-Bromophenyl-phenylether	10.47	248	22895	3.23	ng	1
70) Phenanthrene	11.18	178	130315	3.55	ng	97
74) Fluoranthene	12.35	202	243518	6.48	ng	97
77) Pyrene	12.58	202	235814	7.32	ng	96
80) Benzo(a)anthracene	13.79	228	92528	3.17	ng	96
82) Chrysene	13.79	228	92528	3.42	ng	96
85) Indeno(1,2,3-cd)pyrene	16.39	276	53947	2.19	ng	93
87) Benzo(b)fluoranthene	14.77	252	156372	5.48	ng	93
88) Benzo(k)fluoranthene	14.77	252	156138	7.34	ng	95
89) Benzo(a)pyrene	15.09	252	87103	3.70	ng	95
91) Benzo(g,h,i)perylene	16.77	276	59029	2.82	ng	96

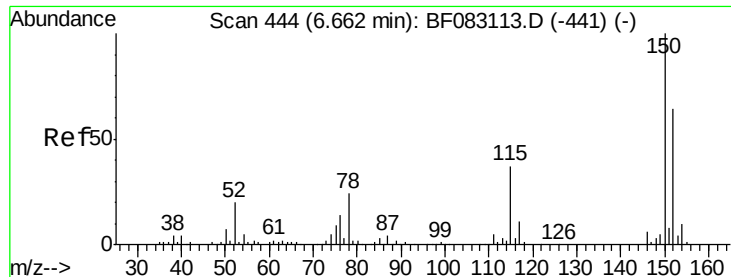
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF112115.M
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 407

Delta R.T. -0.02 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

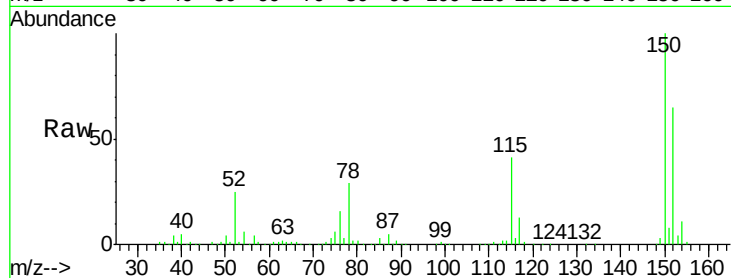
Tgt Ion:152 Resp: 212872

Ion Ratio Lower Upper

152 100

150 154.0 125.8 188.8

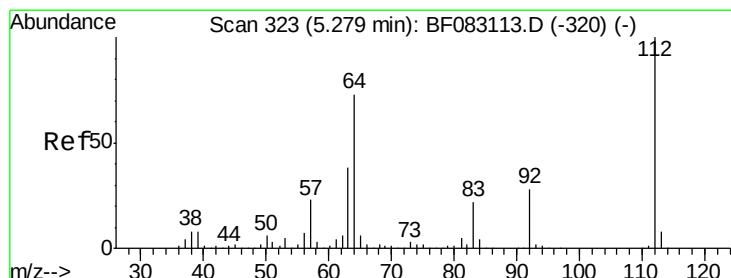
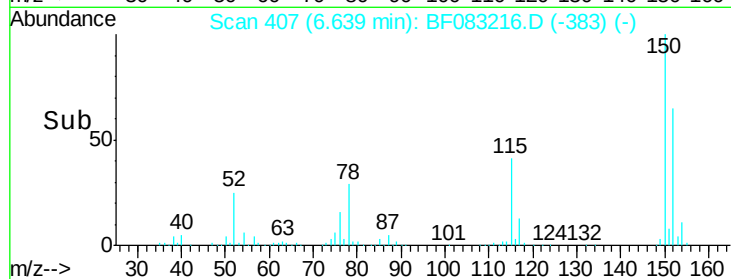
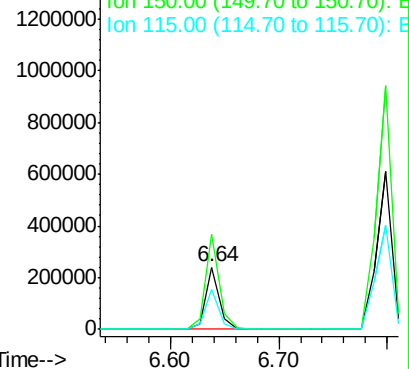
115 63.9 46.9 70.3



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: 91.04 ng

RT: 5.24 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

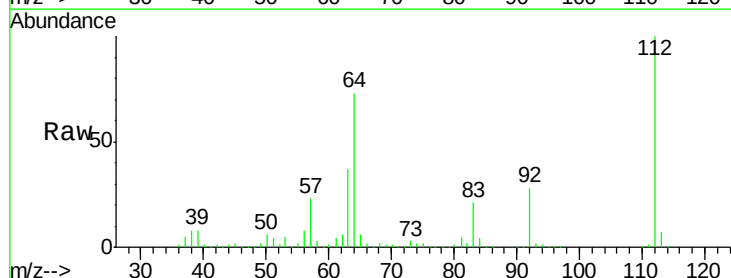
Tgt Ion:112 Resp: 1281919

Ion Ratio Lower Upper

112 100

64 73.2 58.4 87.6

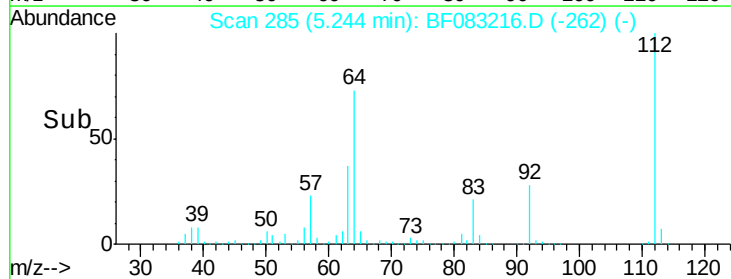
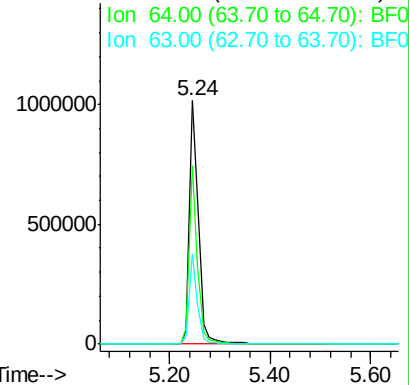
63 37.2 30.0 45.0

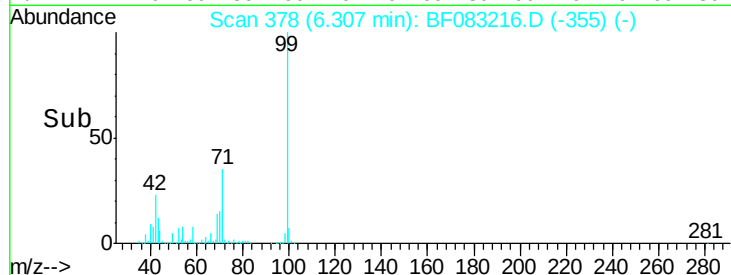
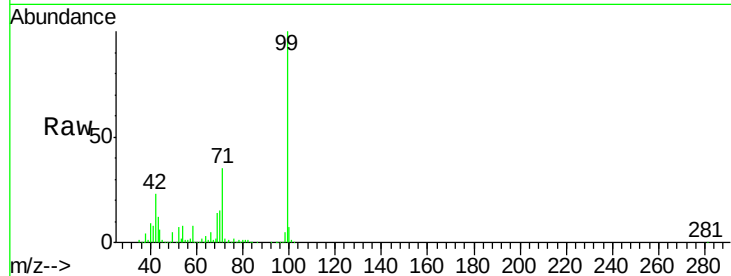
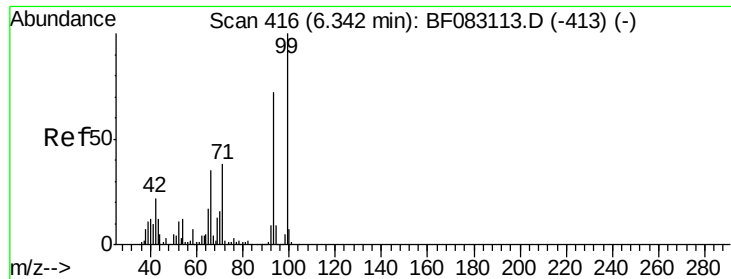


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.63 ng

RT: 6.31 min Scan# 378

Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

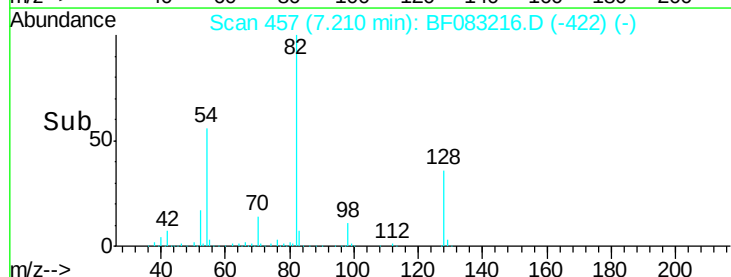
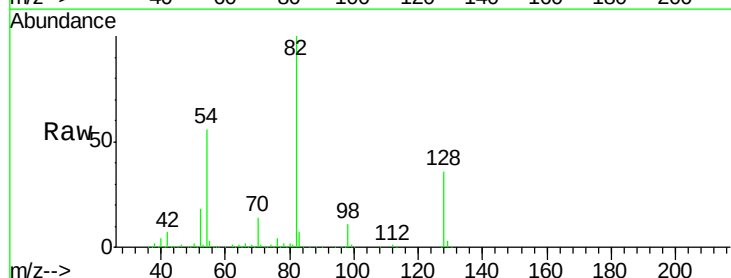
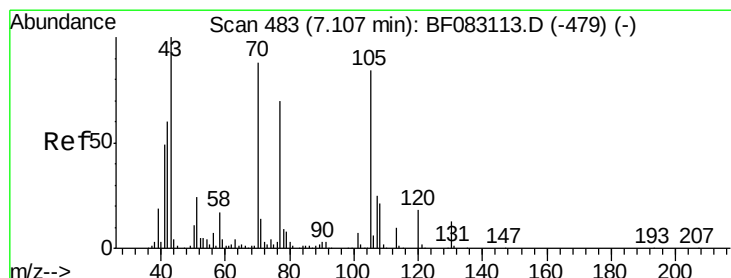
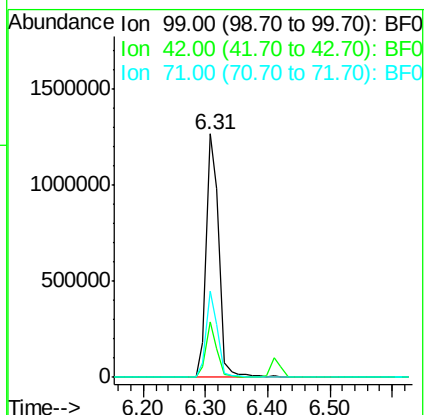
Tgt Ion: 99 Resp: 1796879

Ion Ratio Lower Upper

99 100

42 22.8 17.7 26.5

71 35.4 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 11.87 ng

RT: 7.21 min Scan# 457

Delta R.T. 0.10 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Tgt Ion: 70 Resp: 150521

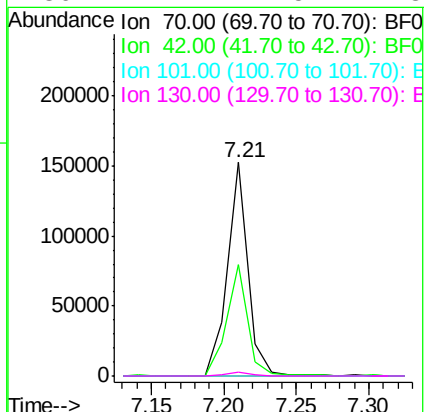
Ion Ratio Lower Upper

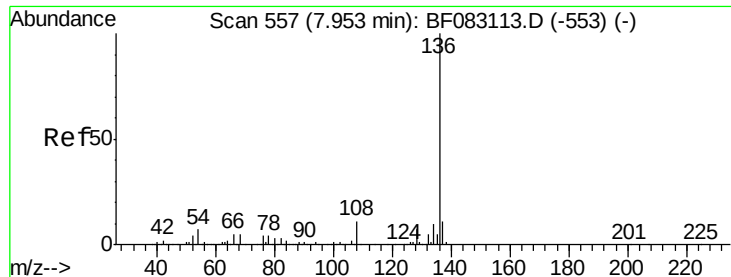
70 100

42 51.9 54.5 81.7#

101 0.0 6.6 9.8#

130 1.7 11.5 17.3#

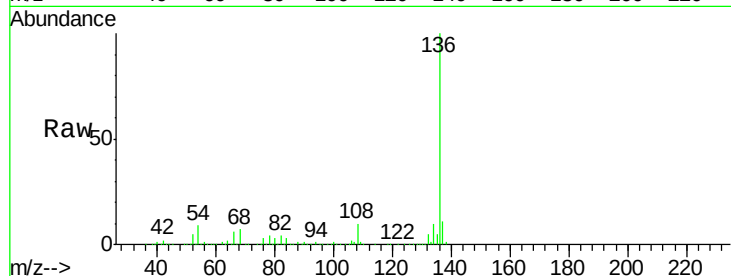




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.93 min Scan# 520
Delta R.T. -0.02 min
Lab File: BF083216.D
Acq: 23 Nov 2015 21:08

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-1

Tgt Ion:	136	Resp:	803876
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	9.1	5.8	8.6#
68	6.5	3.8	5.8#



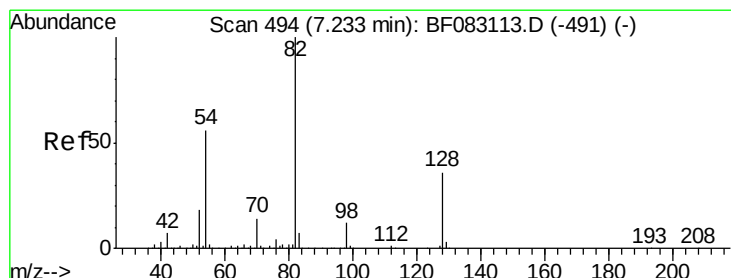
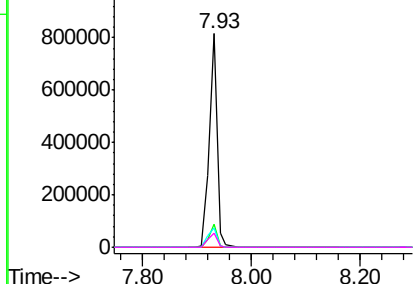
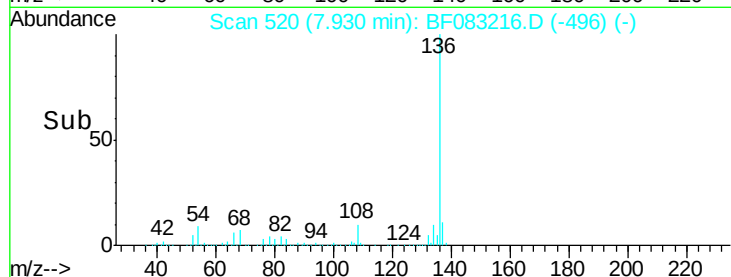
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

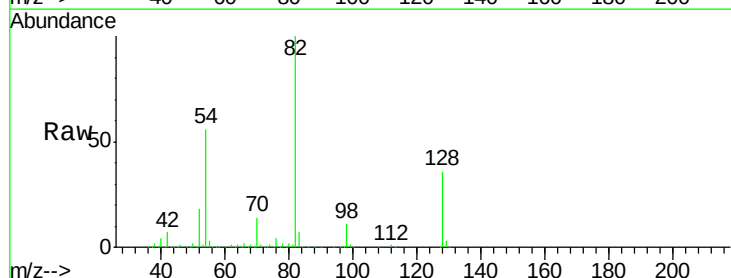
Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23
Nitrobenzene-d5
Concen: 63.52 ng
RT: 7.21 min Scan# 457
Delta R.T. -0.02 min
Lab File: BF083216.D
Acq: 23 Nov 2015 21:08

Tgt Ion:	82	Resp:	1117436
Ion	Ratio	Lower	Upper
82	100		
128	36.0	28.5	42.7
54	55.9	44.6	67.0

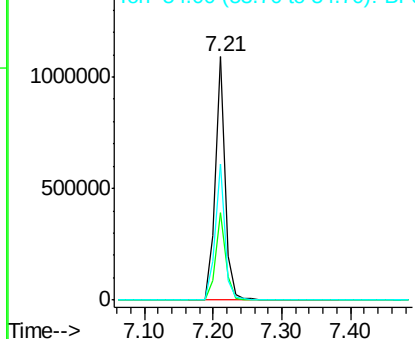
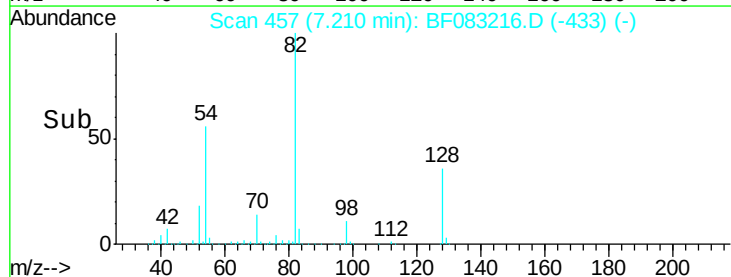


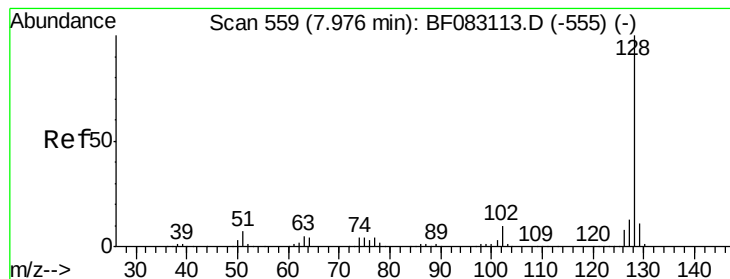
Abundance

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: 3.52 ng

RT: 7.95 min Scan# 522

Delta R.T. -0.02 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

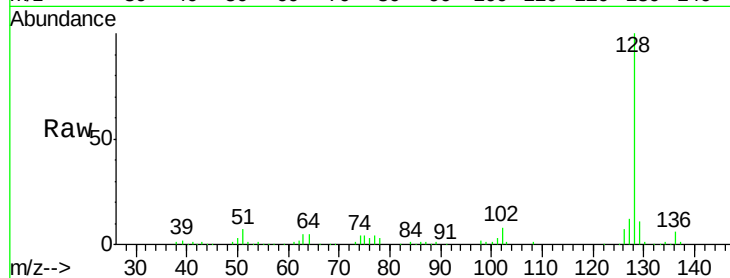
Tgt Ion:128 Resp: 152581

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.4

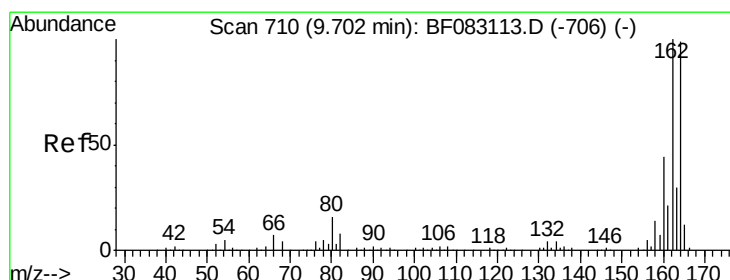
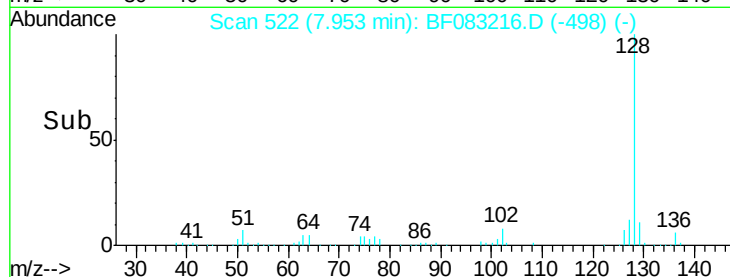
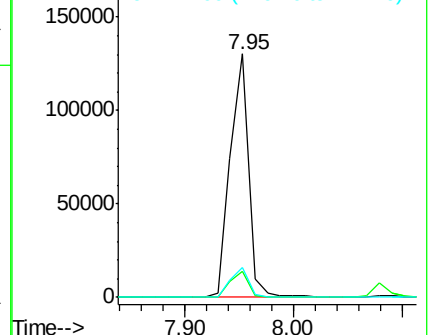
127 12.2 10.6 15.8



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: BF083216.D

Acq: 23 Nov 2015 21:08

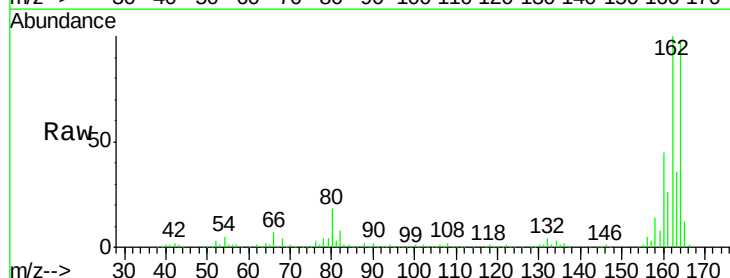
Tgt Ion:164 Resp: 370959

Ion Ratio Lower Upper

164 100

162 102.0 81.2 121.8

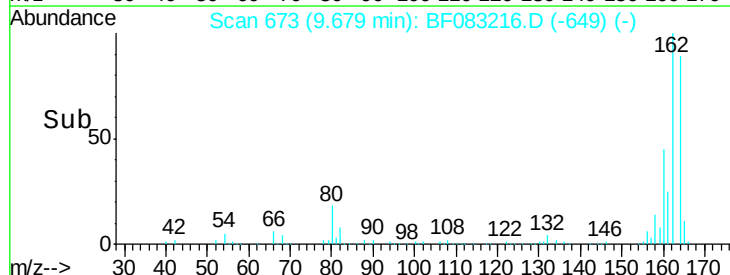
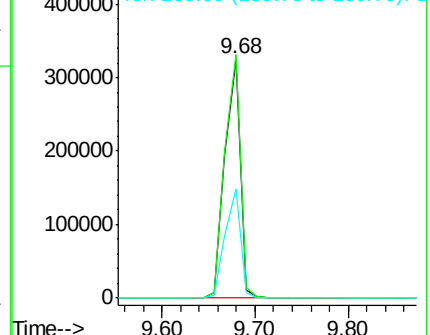
160 45.7 35.6 53.4

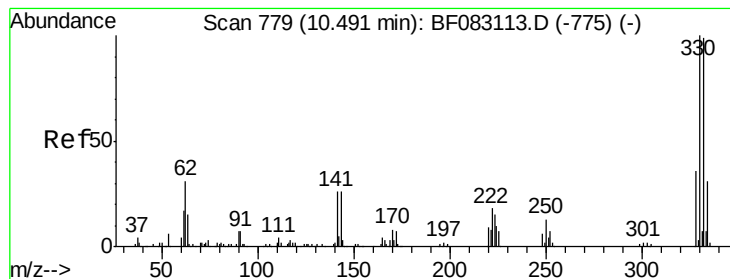


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

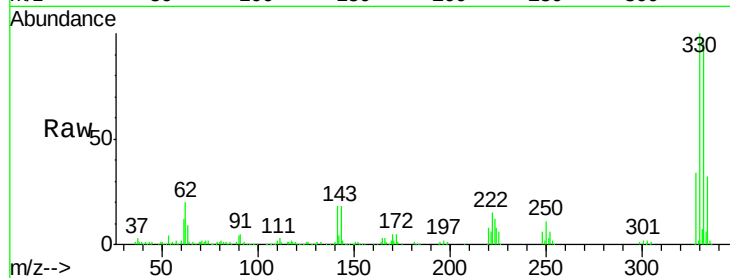




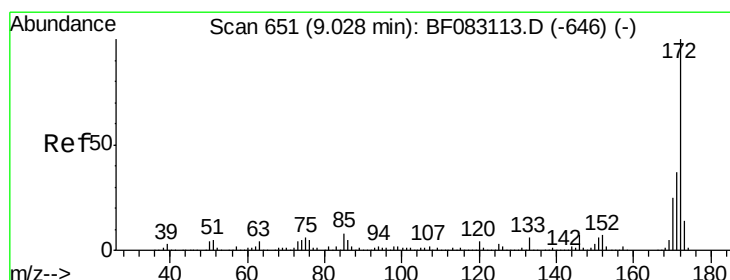
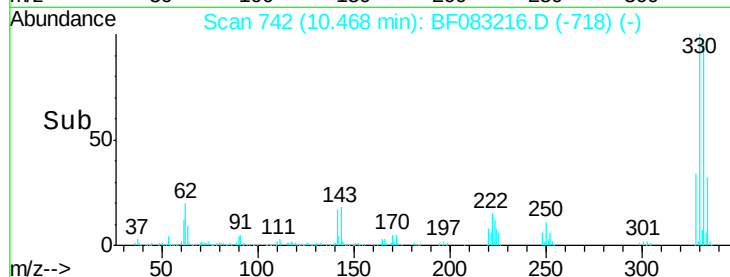
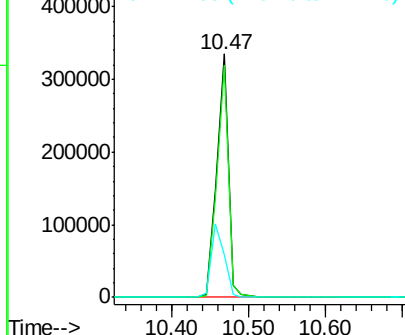
#41
 2,4,6-Tribromophenol
 Concen: 92.41 ng
 RT: 10.47 min Scan# 742
 Delta R.T. -0.02 min
 Lab File: BF083216.D
 Acq: 23 Nov 2015 21:08

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-1

Tgt Ion:330 Resp: 350695
 Ion Ratio Lower Upper
 330 100
 332 94.3 77.7 116.5
 141 34.1 29.7 44.5

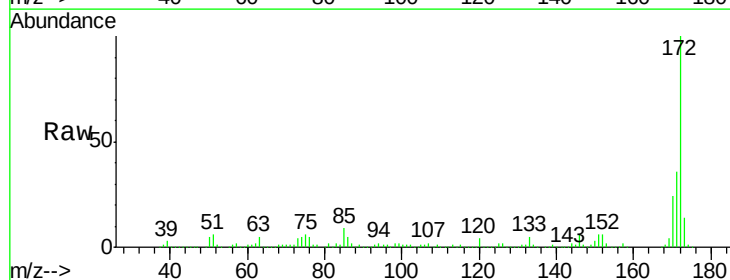


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

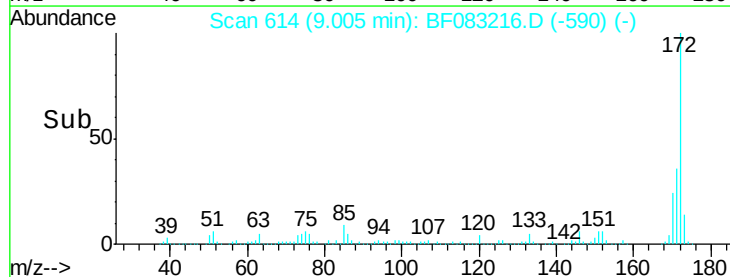
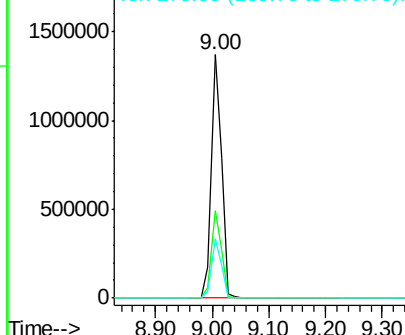


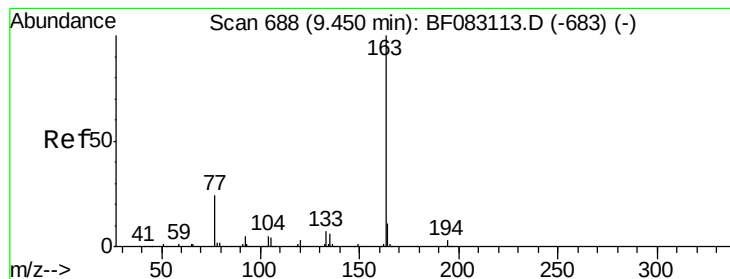
#44
 2-Fluorobiphenyl
 Concen: 61.57 ng
 RT: 9.00 min Scan# 614
 Delta R.T. -0.02 min
 Lab File: BF083216.D
 Acq: 23 Nov 2015 21:08

Tgt Ion:172 Resp: 1637882
 Ion Ratio Lower Upper
 172 100
 171 36.1 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: 11.25 ng

RT: 9.40 min Scan# 649

Delta R.T. -0.05 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

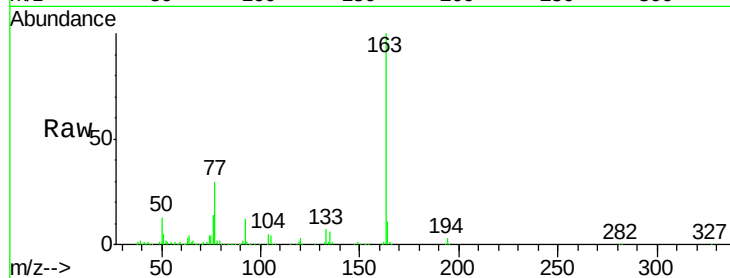
Tgt Ion:163 Resp: 321397

Ion Ratio Lower Upper

163 100

194 3.0 2.6 4.0

164 10.8 8.6 12.8

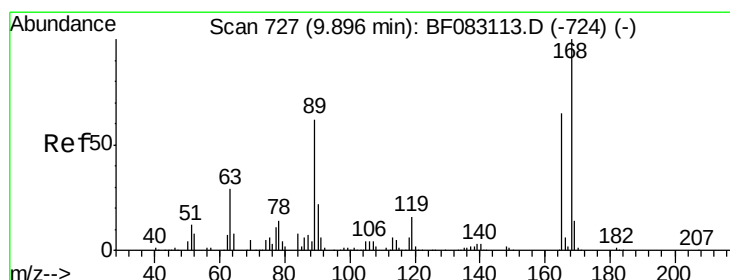
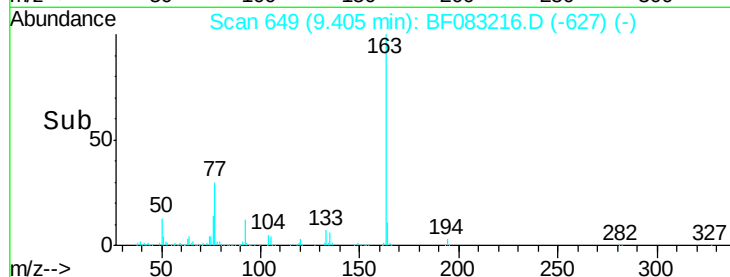


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

Time--> 9.30 9.40 9.50



#56

2,4-Dinitrotoluene

Concen: 5.77 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.22 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Tgt Ion:165 Resp: 46856

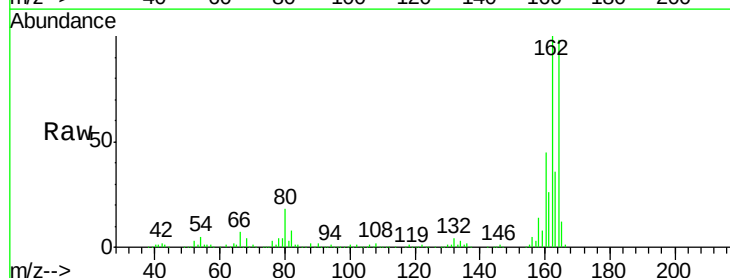
Ion Ratio Lower Upper

165 100

63 1.8 54.5 81.7#

89 2.0 77.3 115.9#

182 0.0 1.8 2.6#



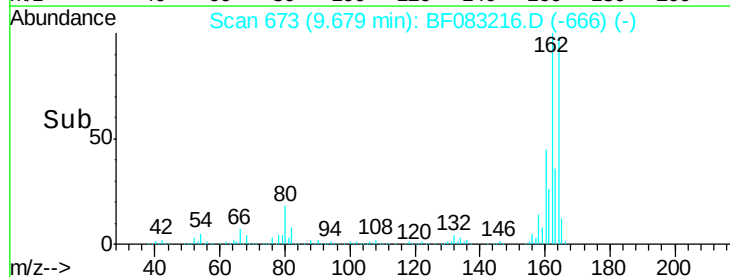
Abundance Ion 165.00 (164.70 to 165.70): E

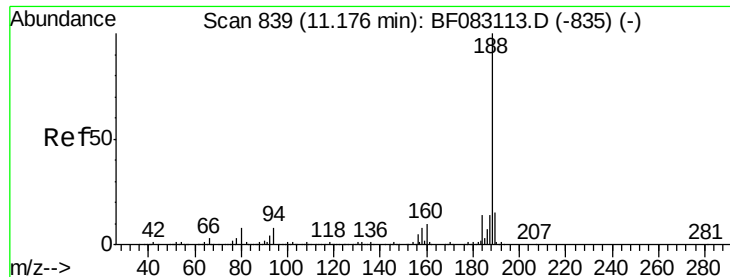
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

Time--> 9.60 9.65 9.70

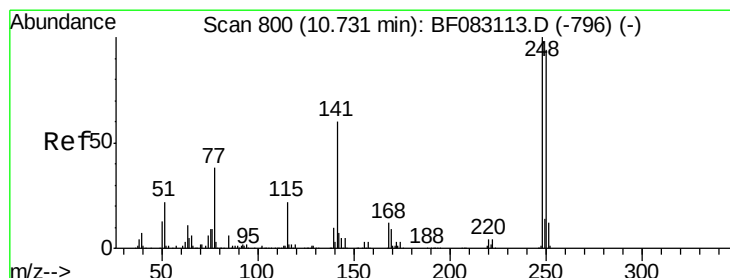
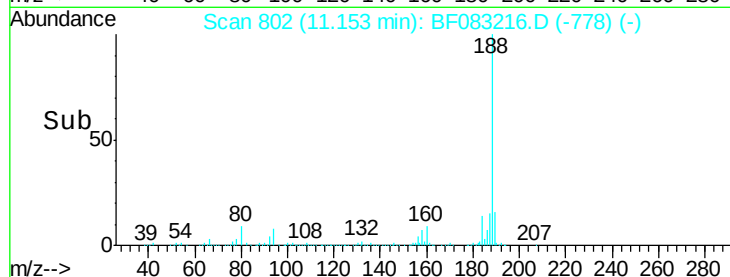
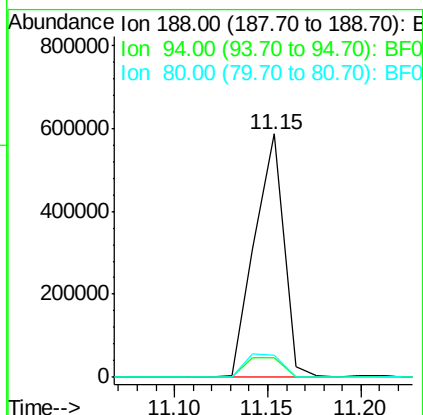
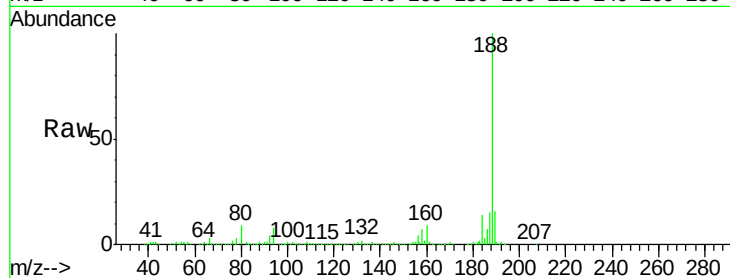




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.15 min Scan# 802
Delta R.T. -0.02 min
Lab File: BF083216.D
Acq: 23 Nov 2015 21:08

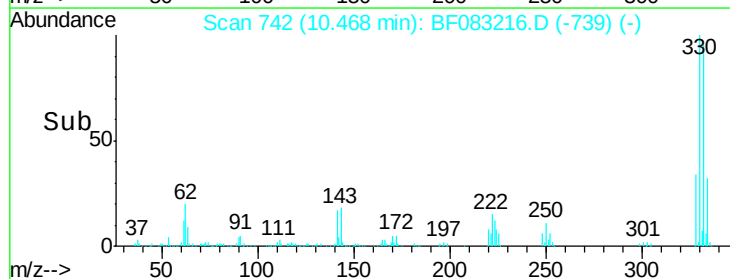
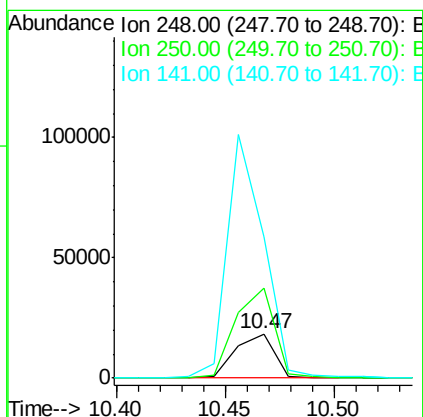
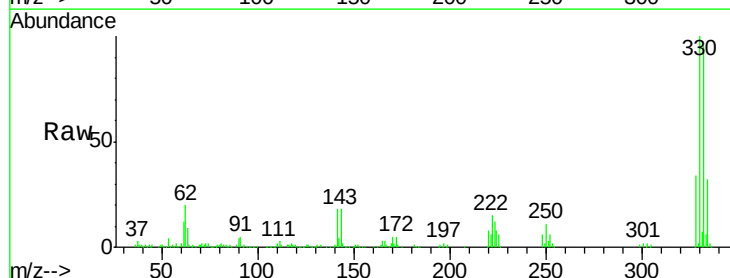
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-1

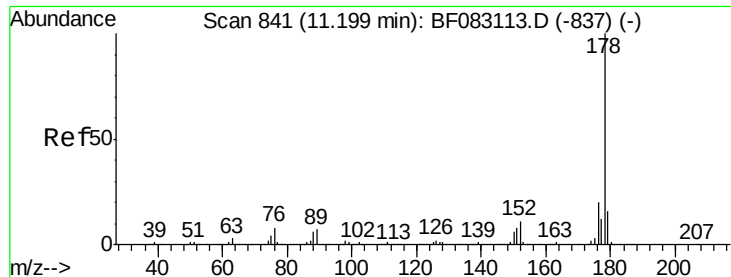
Tgt Ion:188 Resp: 637790
Ion Ratio Lower Upper
188 100
94 7.8 6.0 9.0
80 9.0 6.7 10.1



#66
4-Bromophenyl-phenylether
Concen: 3.23 ng
RT: 10.47 min Scan# 742
Delta R.T. -0.26 min
Lab File: BF083216.D
Acq: 23 Nov 2015 21:08

Tgt Ion:248 Resp: 22895
Ion Ratio Lower Upper
248 100
250 202.9 75.4 113.2#
141 319.0 48.1 72.1#

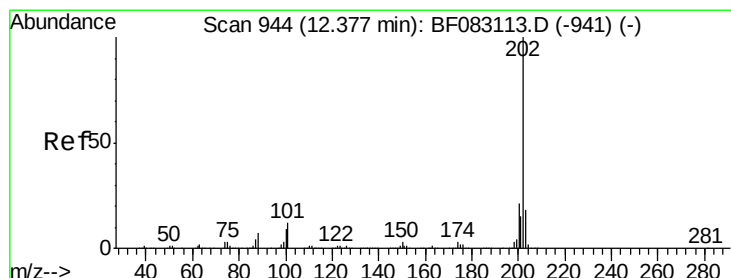
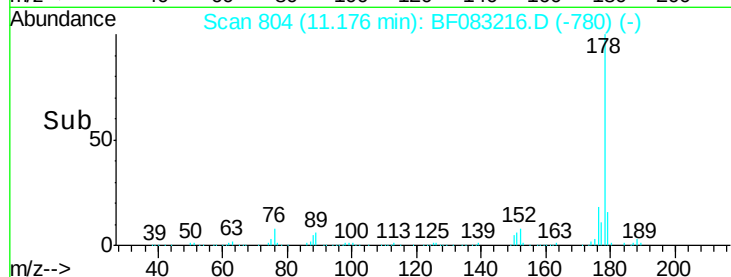
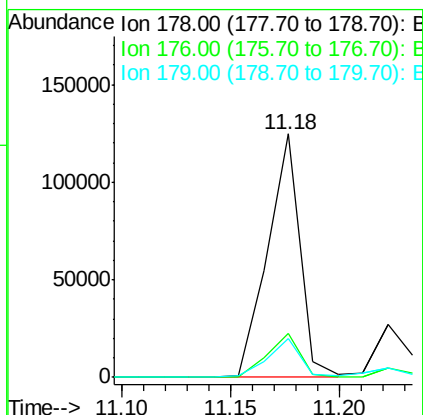
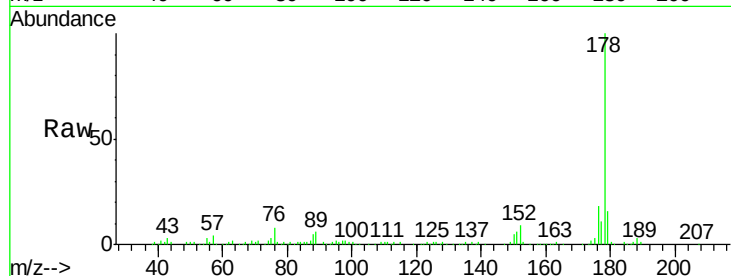




#70
Phenanthrene
Concen: 3.55 ng
RT: 11.18 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF083216.D
Acq: 23 Nov 2015 21:08

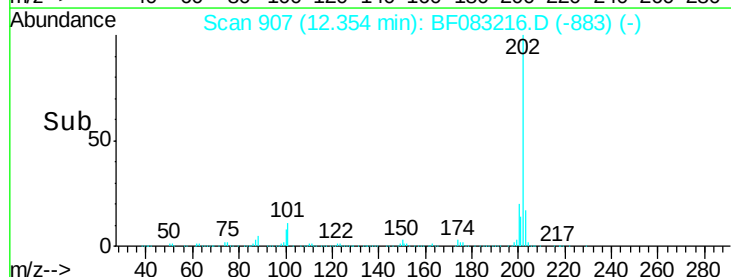
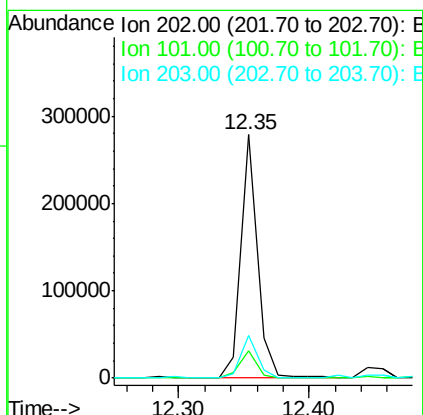
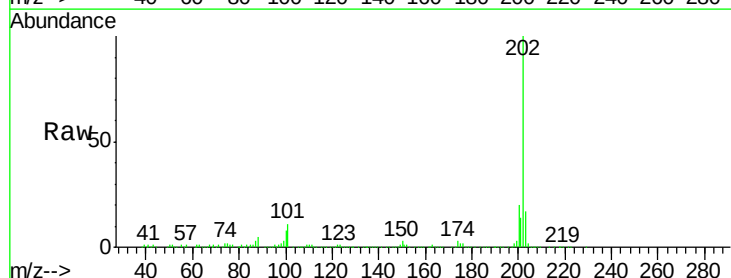
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-1

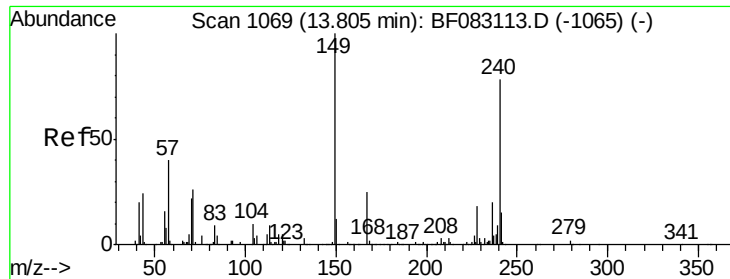
Tgt Ion:178 Resp: 130315
Ion Ratio Lower Upper
178 100
176 18.0 16.2 24.2
179 15.7 12.8 19.2



#74
Fluoranthene
Concen: 6.48 ng
RT: 12.35 min Scan# 907
Delta R.T. -0.02 min
Lab File: BF083216.D
Acq: 23 Nov 2015 21:08

Tgt Ion:202 Resp: 243518
Ion Ratio Lower Upper
202 100
101 11.1 0.0 32.3
203 17.3 0.0 38.4





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1031

Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

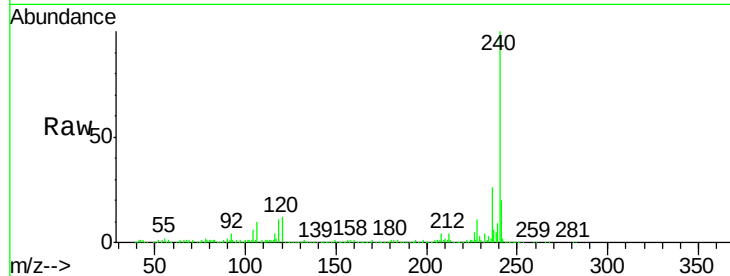
Tgt Ion:240 Resp: 471396

Ion Ratio Lower Upper

240 100

120 12.4 5.4 8.2#

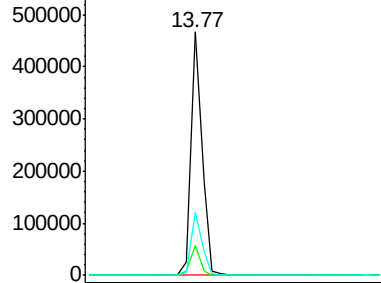
236 26.0 20.6 31.0



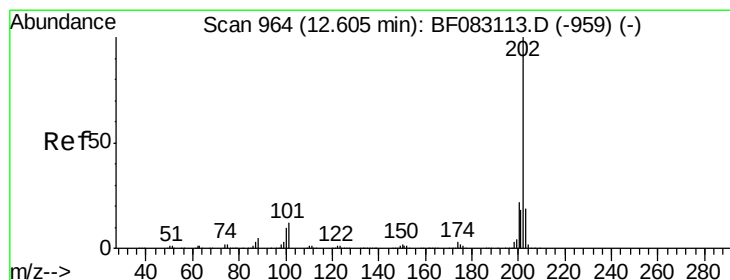
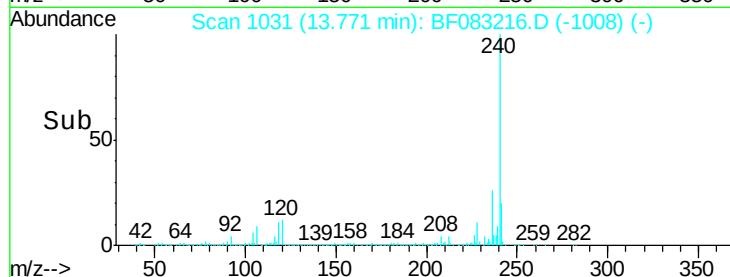
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 7.32 ng

RT: 12.58 min Scan# 927

Delta R.T. -0.02 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

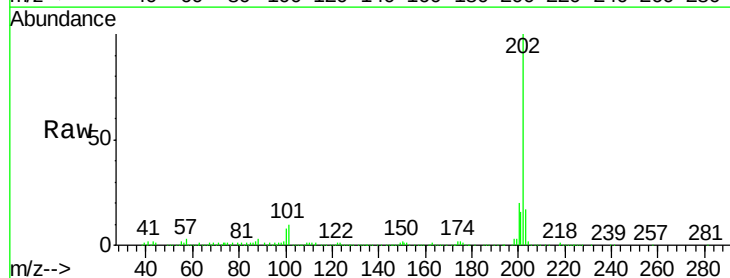
Tgt Ion:202 Resp: 235814

Ion Ratio Lower Upper

202 100

200 20.5 17.8 26.6

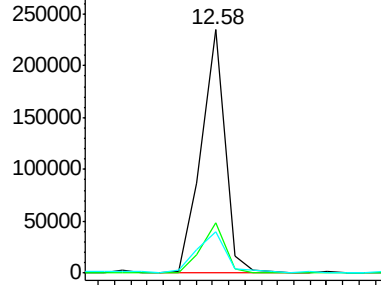
203 17.0 15.0 22.4



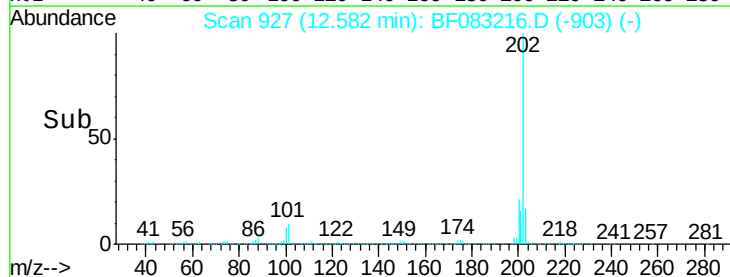
Abundance Ion 202.00 (201.70 to 202.70): E

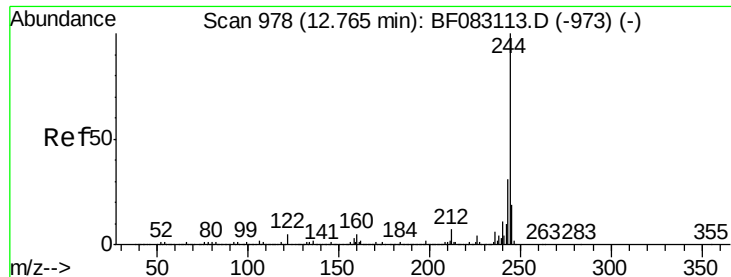
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#78

Terphenyl-d14

Concen: 64.69 ng

RT: 12.73 min Scan# 940

Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

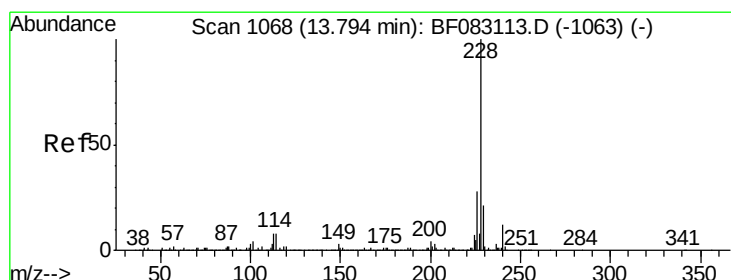
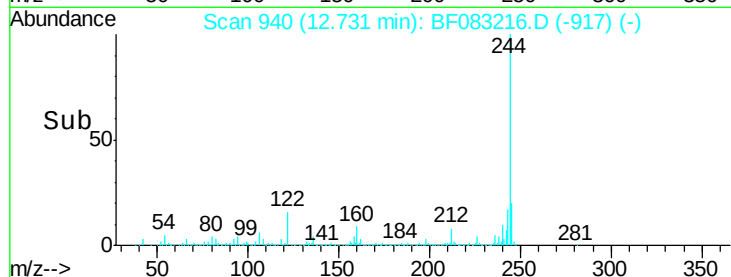
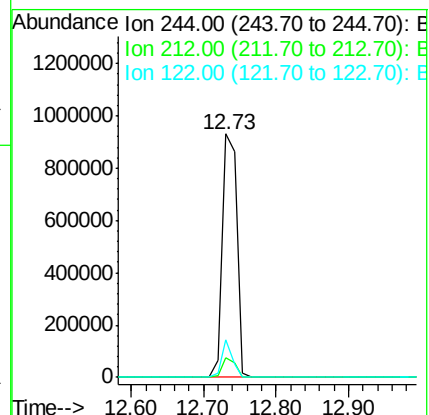
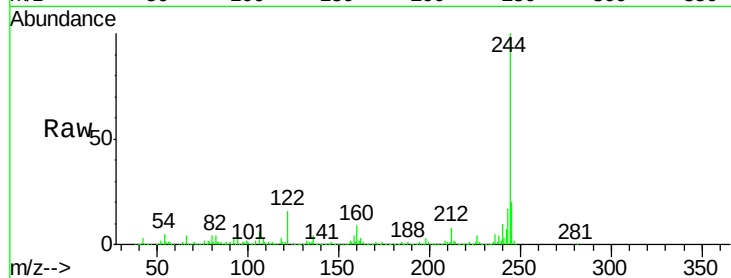
Tgt Ion:244 Resp: 1295052

Ion Ratio Lower Upper

244 100

212 8.1 5.4 8.2

122 15.6 4.3 6.5#



#80

Benzo(a)anthracene

Concen: 3.17 ng

RT: 13.79 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

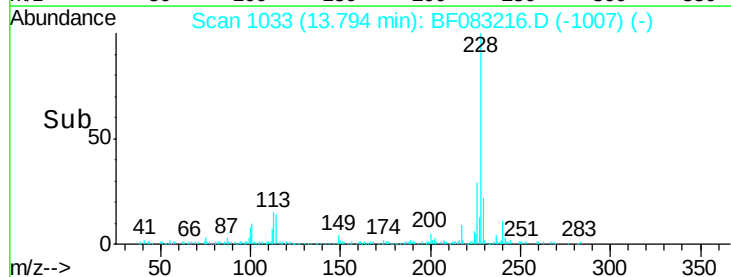
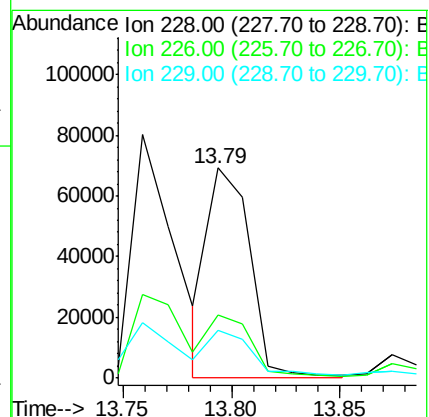
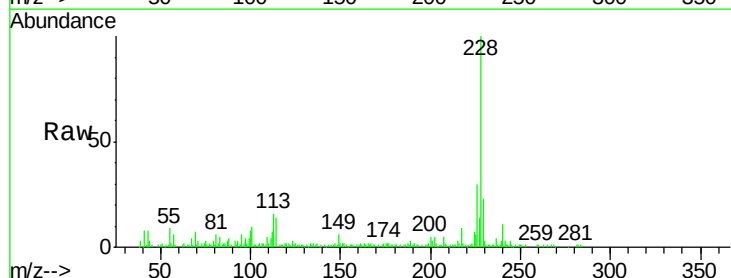
Tgt Ion:228 Resp: 92528

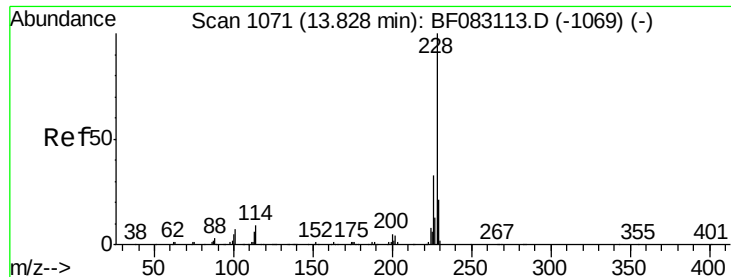
Ion Ratio Lower Upper

228 100

226 29.8 22.6 33.8

229 23.0 16.6 24.8





#82

Chrysene

Concen: 3.42 ng

RT: 13.79 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampled :

FILL-DIRT-1

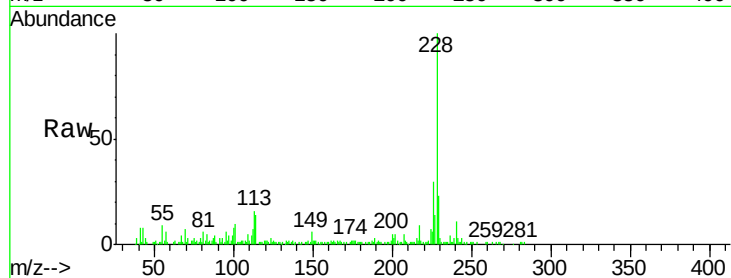
Tgt Ion:228 Resp: 92528

Ion Ratio Lower Upper

228 100

226 29.8 25.5 38.3

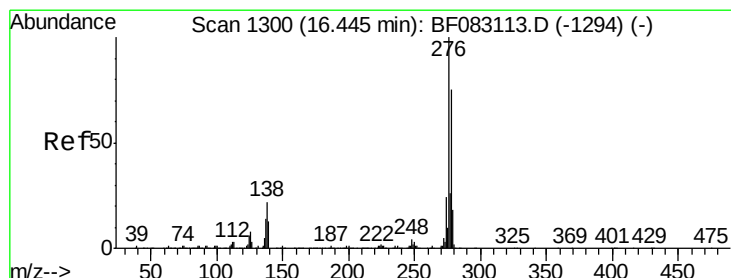
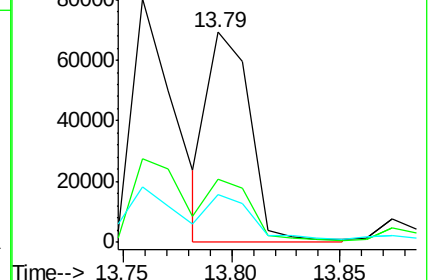
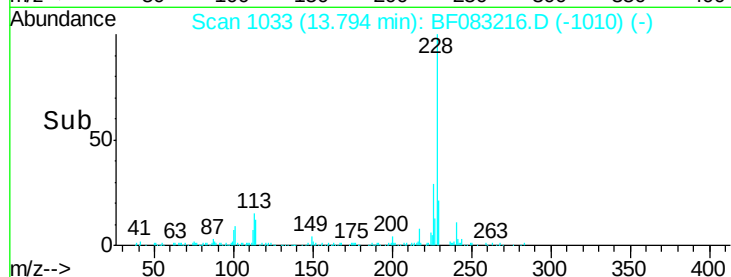
229 23.0 16.6 25.0



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: 2.19 ng

RT: 16.39 min Scan# 1260

Delta R.T. -0.06 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

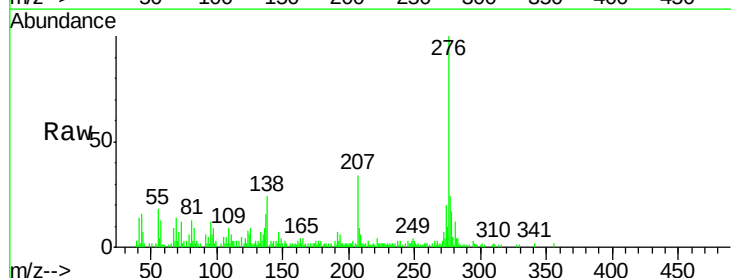
Tgt Ion:276 Resp: 53947

Ion Ratio Lower Upper

276 100

138 26.0 18.0 27.0

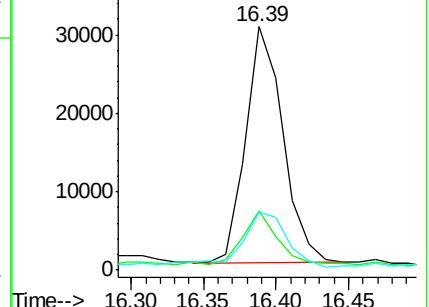
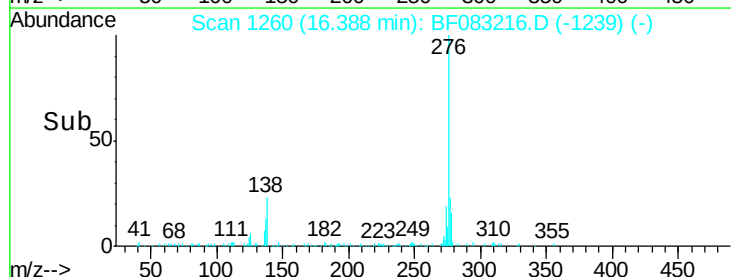
277 28.5 20.2 30.4

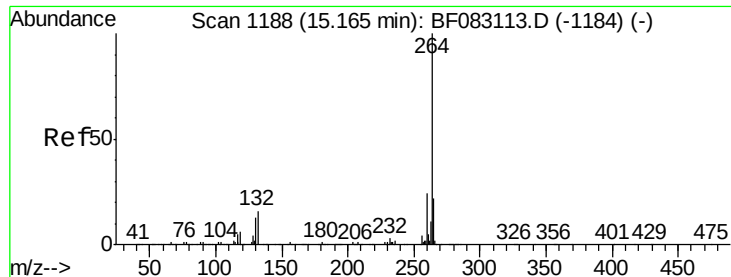


Abundance Ion 276.00 (275.70 to 276.70): E

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: BF083216.D

Acq: 23 Nov 2015 21:08

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

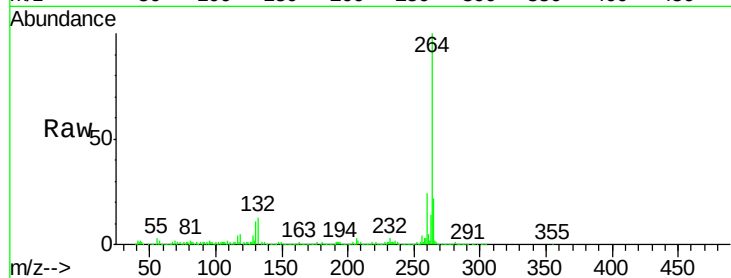
Tgt Ion:264 Resp: 417761

Ion Ratio Lower Upper

264 100

260 24.3 19.1 28.7

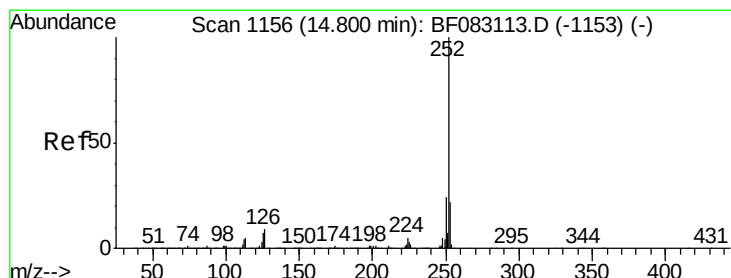
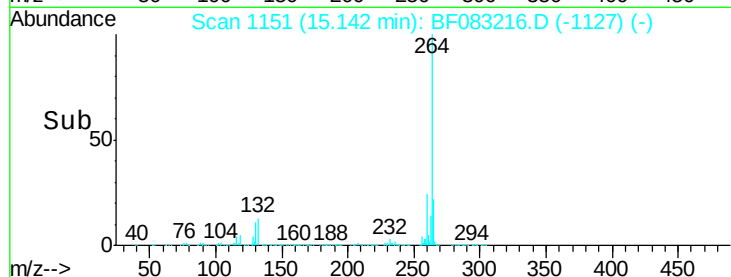
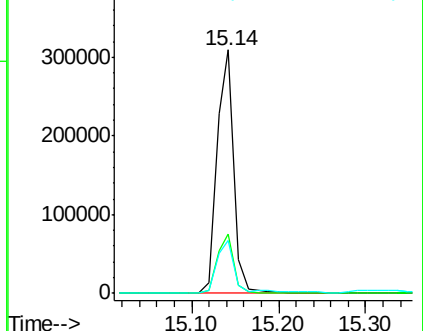
265 21.8 18.2 27.4



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: 5.48 ng

RT: 14.77 min Scan# 1118

Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

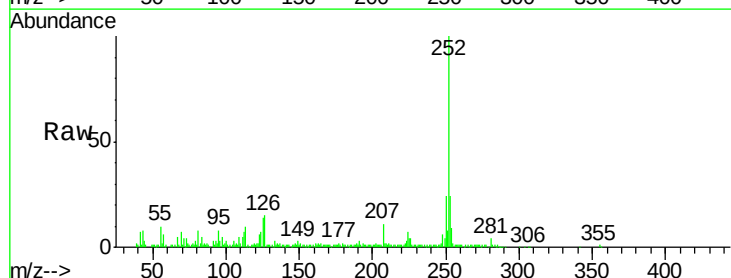
Tgt Ion:252 Resp: 156372

Ion Ratio Lower Upper

252 100

253 23.6 17.7 26.5

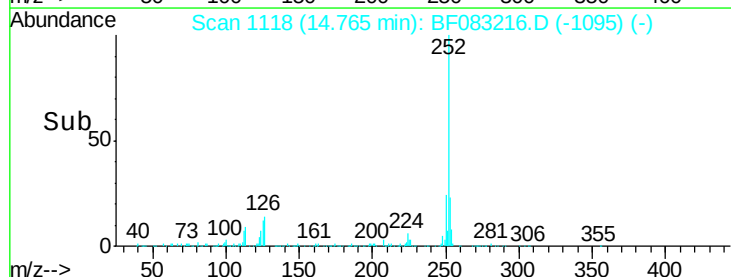
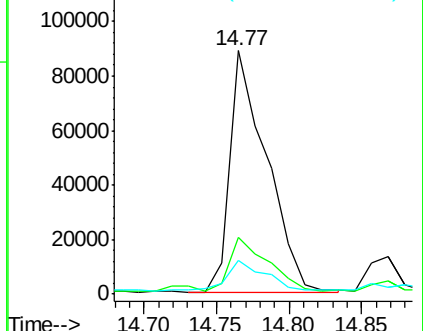
125 13.8 5.6 8.4#

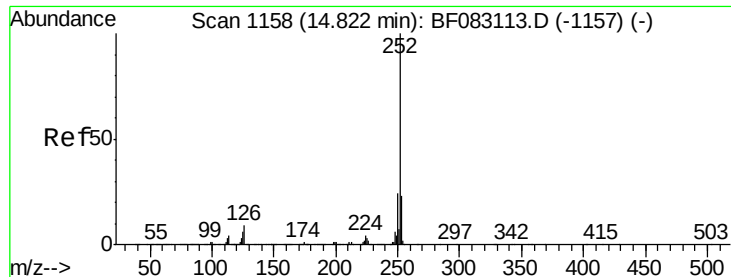


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 7.34 ng

RT: 14.77 min Scan# 1118

Delta R.T. -0.06 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

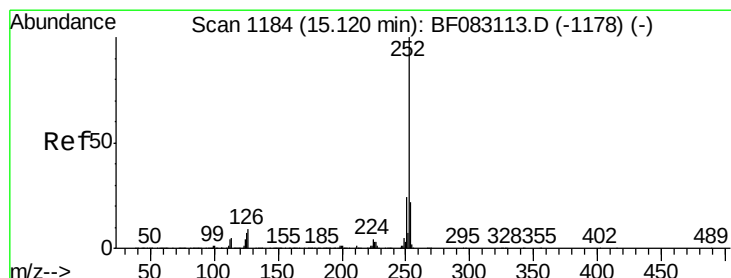
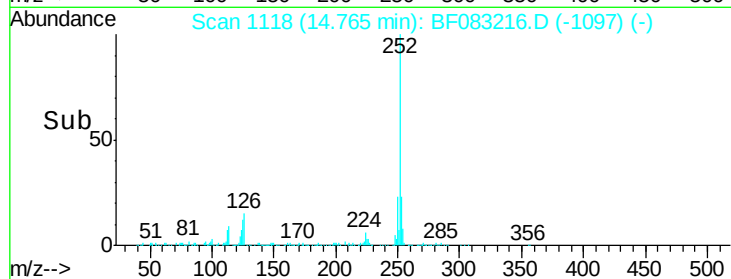
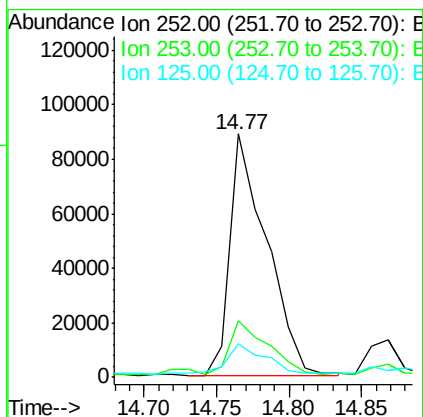
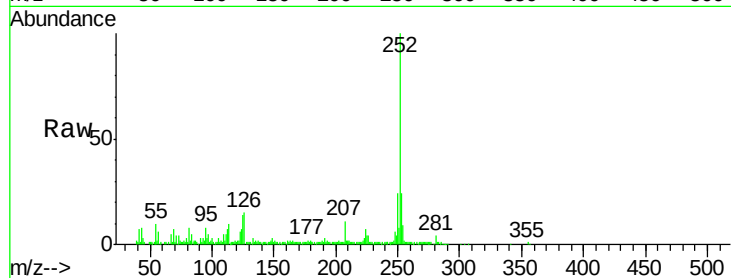
Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-1

Tgt Ion:	252	Resp:	156138
Ion Ratio	Lower	Upper	
252	100		
253	23.6	18.2	27.2
125	13.8	6.8	10.2#



#89

Benzo(a)pyrene

Concen: 3.70 ng

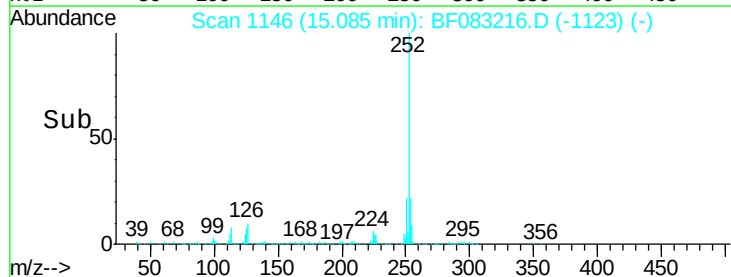
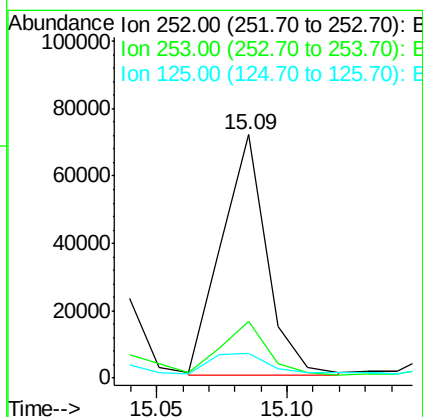
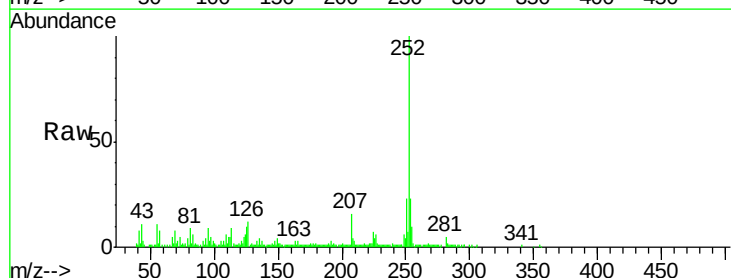
RT: 15.09 min Scan# 1146

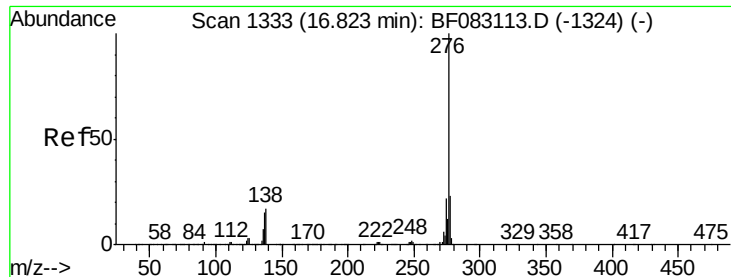
Delta R.T. -0.03 min

Lab File: BF083216.D

Acq: 23 Nov 2015 21:08

Tgt Ion:	252	Resp:	87103
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.5	26.3
125	10.0	5.4	8.0#





#91
 Benzo(g,h,i)perylene
 Concen: 2.82 ng
 RT: 16.77 min Scan# 1293
 Delta R.T. -0.06 min
 Lab File: BF083216.D
 Acq: 23 Nov 2015 21:08

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-1

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.7	28.1
138	21.8	13.9	20.9

