

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112315\
 Data File : BF083217.D
 Acq On : 23 Nov 2015 21:38
 Operator : UM/IZ
 Sample : G4512-02RE
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-2

Quant Time: Nov 24 04:36:51 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	218376	20.00	ng	-0.02
21) Naphthalene-d8	7.93	136	807693	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	372623	20.00	ng	-0.02
63) Phenanthrene-d10	11.15	188	636860	20.00	ng	-0.02
75) Chrysene-d12	13.77	240	450895	20.00	ng	-0.03
86) Perylene-d12	15.14	264	417114	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	1601346	110.86	ng	-0.03
7) Phenol-d6	6.32	99	2240291	119.87	ng	-0.02
23) Nitrobenzene-d5	7.21	82	1302940	73.71	ng	-0.02
41) 2,4,6-Tribromophenol	10.47	330	400189	104.98	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	1869674	69.97	ng	-0.02
78) Terphenyl-d14	12.73	244	1435697	74.98	ng	-0.03

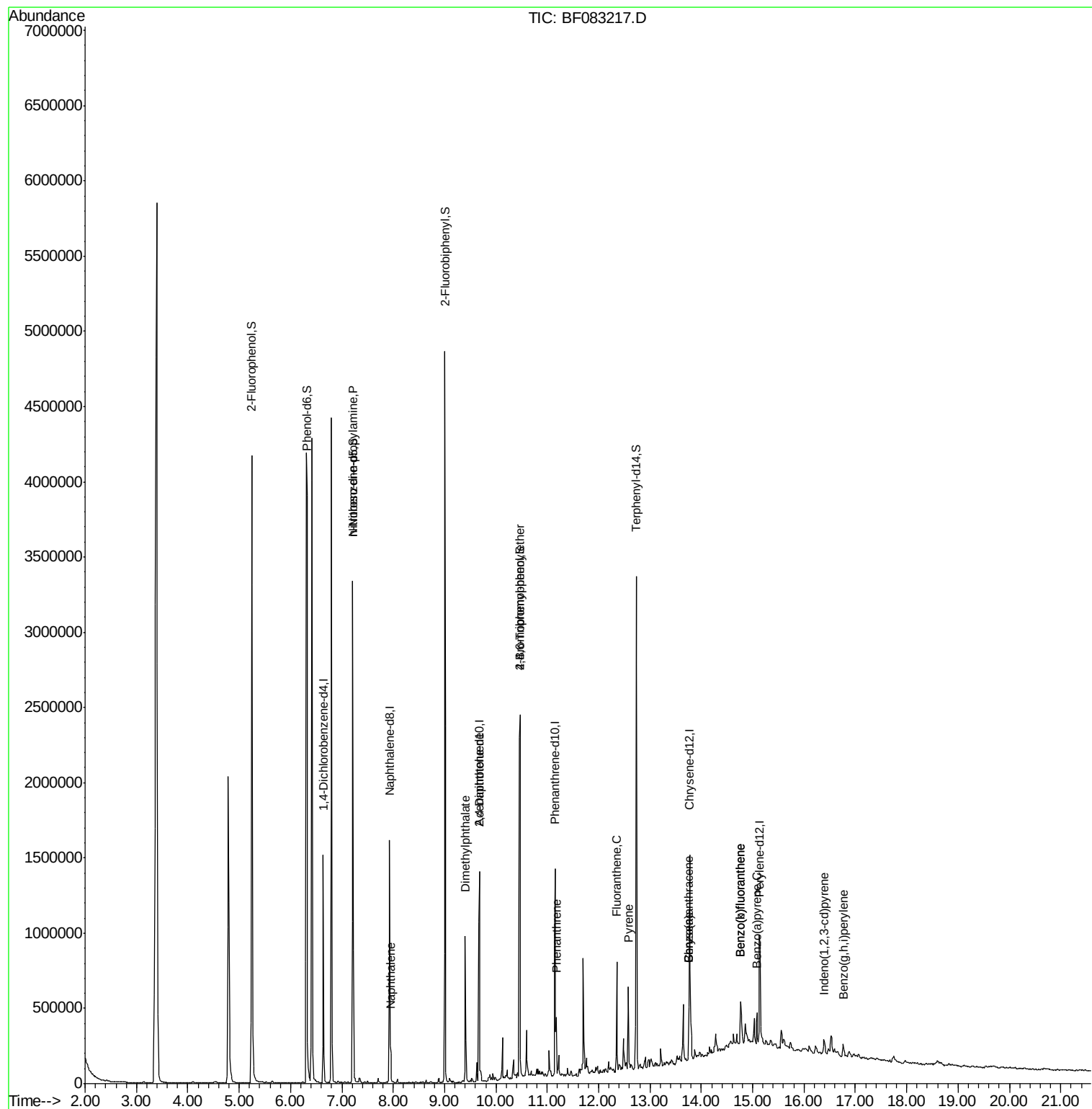
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.32	77	3249	Below Cal		# 21
19) n-Nitroso-di-n-propylamine	7.21	70	180466	13.88	ng	# 78
31) Naphthalene	7.95	128	123342	2.83	ng	98
49) Dimethylphthalate	9.40	163	388204	13.53	ng	99
56) 2,4-Dinitrotoluene	9.68	165	47700	5.85	ng	# 10
66) 4-Bromophenyl-phenylether	10.47	248	27591	3.90	ng	# 1
70) Phenanthrene	11.18	178	185479	5.06	ng	97
74) Fluoranthene	12.35	202	282663	7.53	ng	98
77) Pyrene	12.58	202	260045	8.44	ng	98
80) Benzo(a)anthracene	13.76	228	129981	4.66	ng	# 93
82) Chrysene	13.76	228	129981	5.03	ng	97
85) Indeno(1,2,3-cd)pyrene	16.39	276	67163	2.86	ng	97
87) Benzo(b)fluoranthene	14.77	252	185962	6.52	ng	# 95
88) Benzo(k)fluoranthene	14.77	252	185696	8.75	ng	# 97
89) Benzo(a)pyrene	15.09	252	99872	4.24	ng	# 97
91) Benzo(g,h,i)perylene	16.77	276	63077	3.02	ng	# 93

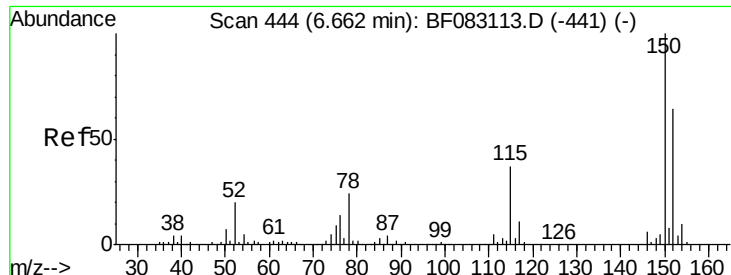
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

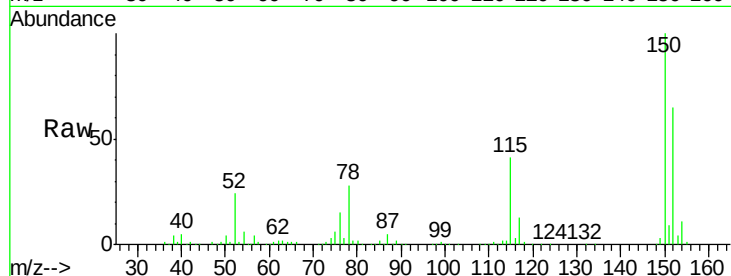
Tgt Ion:152 Resp: 218376

Ion Ratio Lower Upper

152 100

150 154.5 125.8 188.8

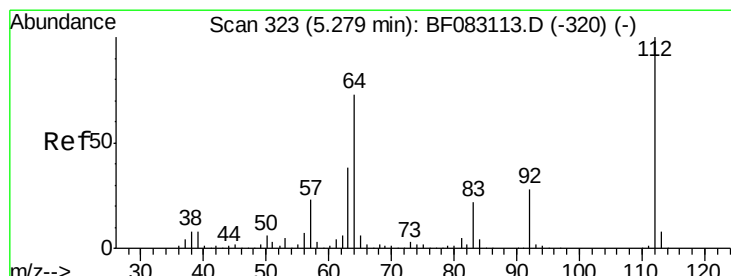
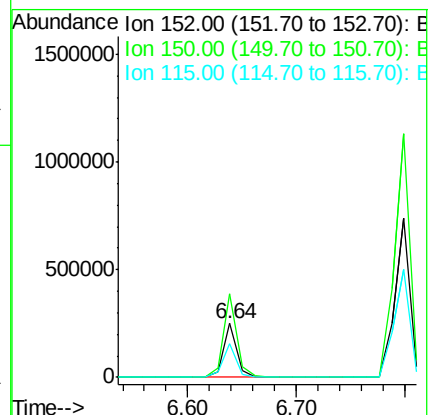
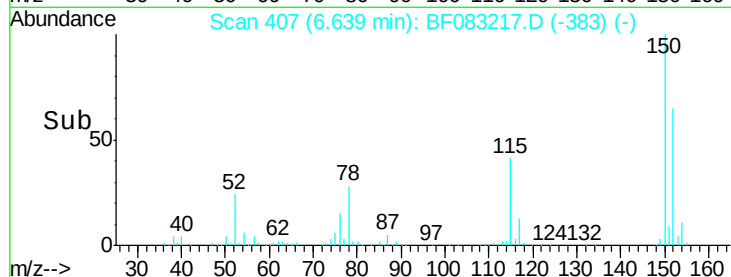
115 62.8 46.9 70.3



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: 110.86 ng

RT: 5.24 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

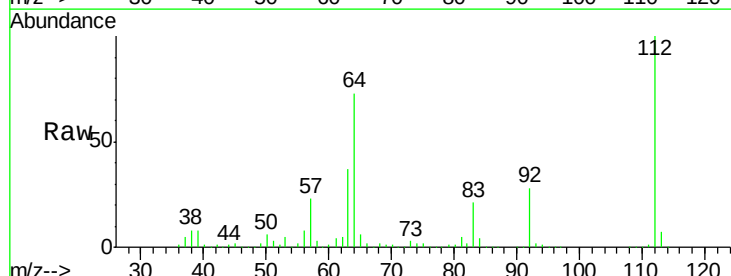
Tgt Ion:112 Resp: 1601346

Ion Ratio Lower Upper

112 100

64 73.3 58.4 87.6

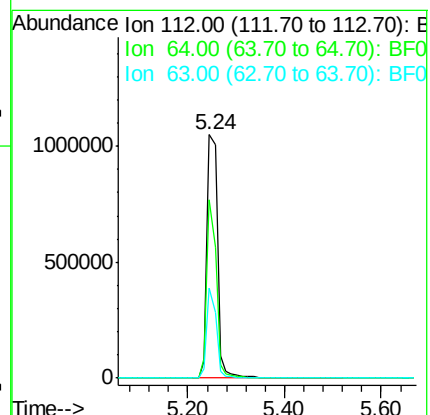
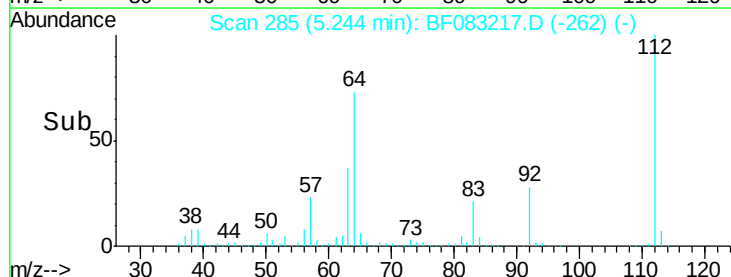
63 37.1 30.0 45.0

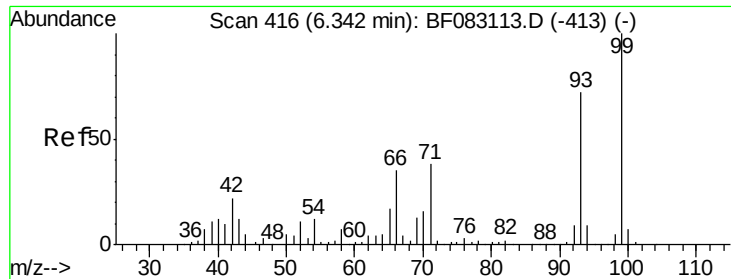


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 119.87 ng

RT: 6.32 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

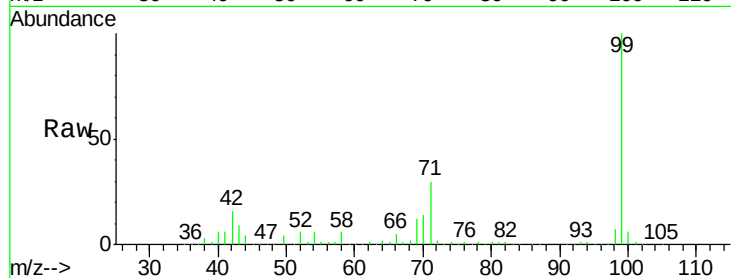
Tgt Ion: 99 Resp: 2240291

Ion Ratio Lower Upper

99 100

42 16.0 17.7 26.5#

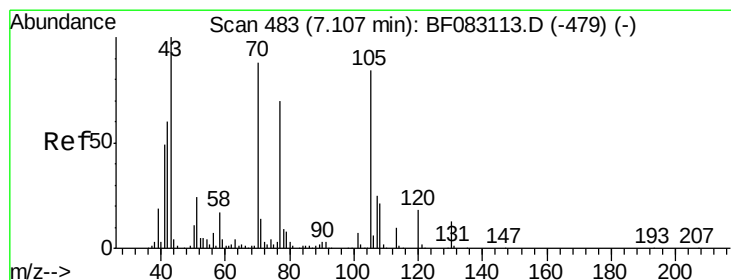
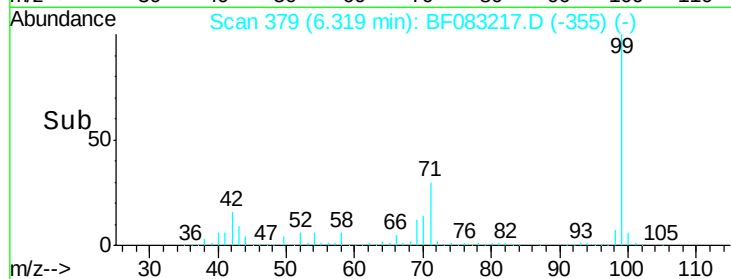
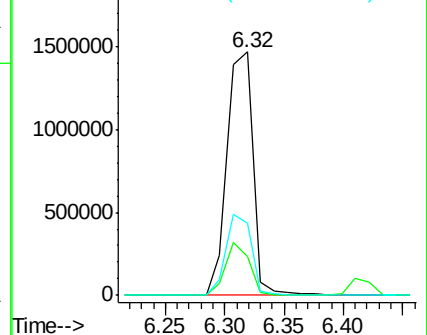
71 29.7 30.2 45.4#



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.88 ng

RT: 7.21 min Scan# 457

Delta R.T. 0.10 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Tgt Ion: 70 Resp: 180466

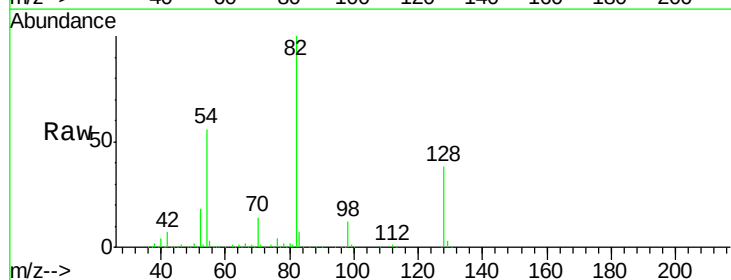
Ion Ratio Lower Upper

70 100

42 51.8 54.5 81.7#

101 0.0 6.6 9.8#

130 1.6 11.5 17.3#

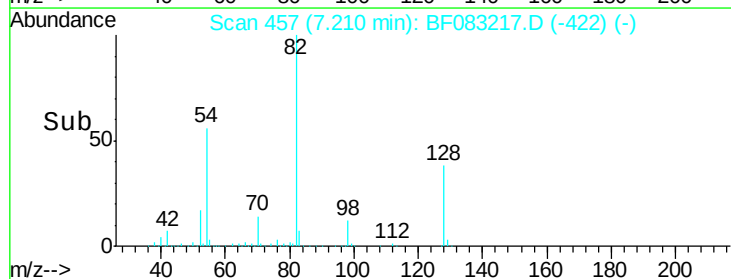
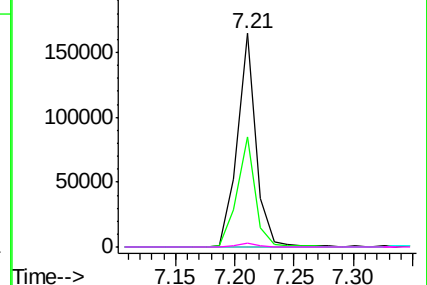


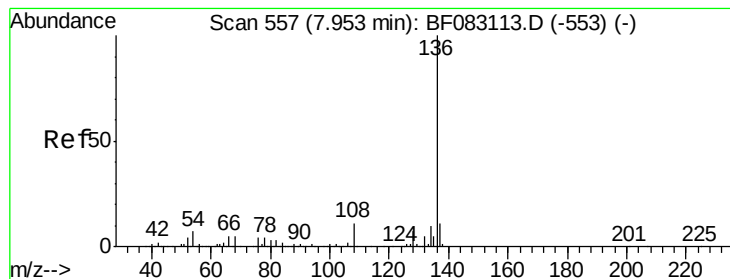
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.93 min Scan# 520

Delta R.T. -0.02 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

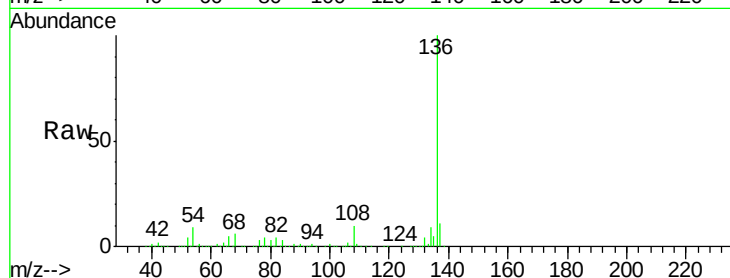
Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

Tgt Ion:	136	Resp:	807693
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	8.6	5.8	8.6
68	6.3	3.8	5.8#

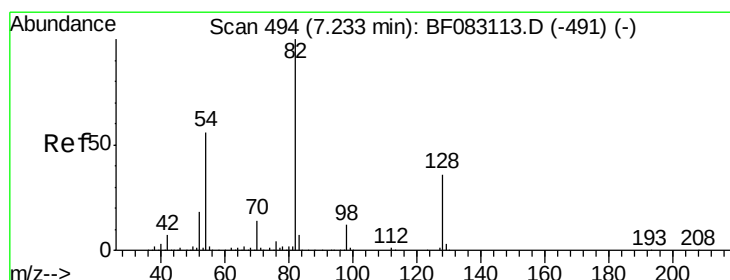
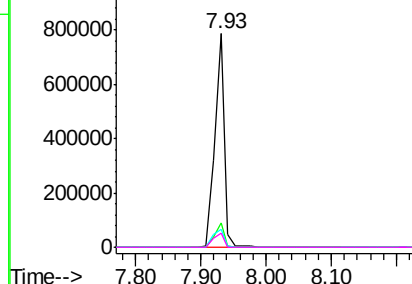
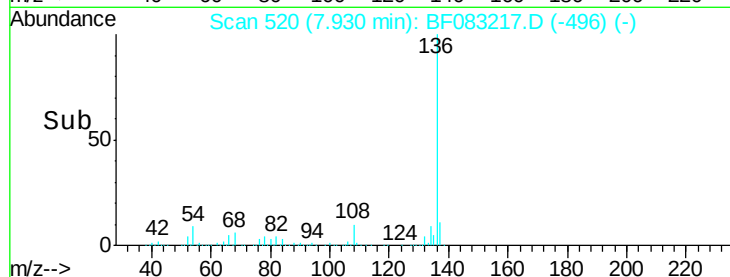


Abundance Ion 136.00 (135.70 to 136.70): E

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: 73.71 ng

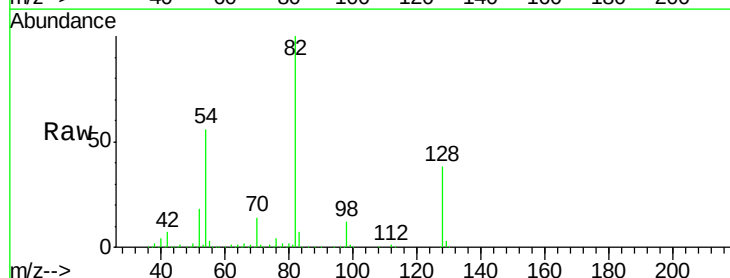
RT: 7.21 min Scan# 457

Delta R.T. -0.02 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

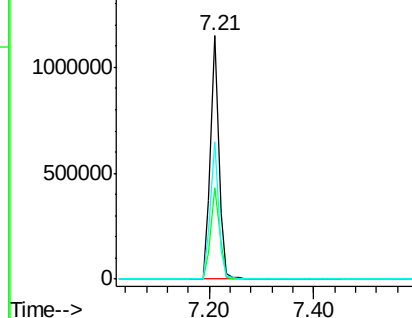
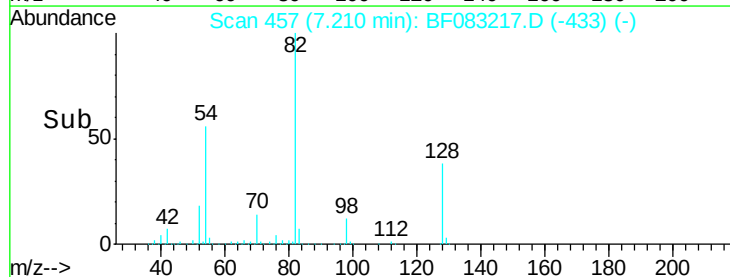
Tgt Ion:	82	Resp:	1302940
Ion	Ratio	Lower	Upper
82	100		
128	37.5	28.5	42.7
54	56.3	44.6	67.0

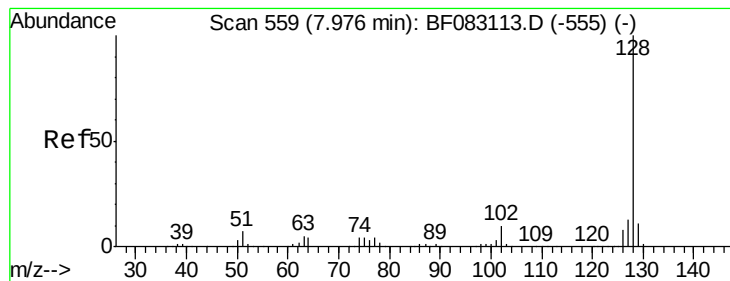


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.83 ng

RT: 7.95 min Scan# 522

Delta R.T. -0.02 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

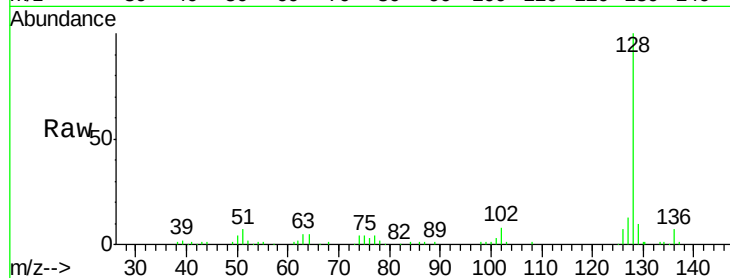
Tgt Ion:128 Resp: 123342

Ion Ratio Lower Upper

128 100

129 10.3 9.0 13.4

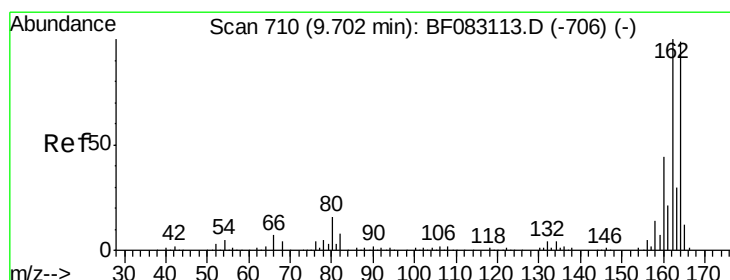
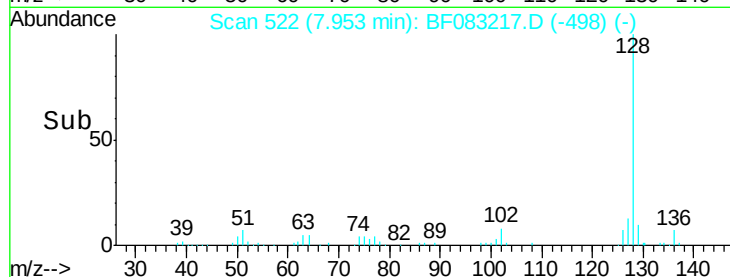
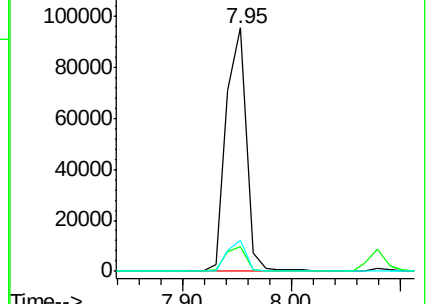
127 12.7 10.6 15.8



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: BF083217.D

Acq: 23 Nov 2015 21:38

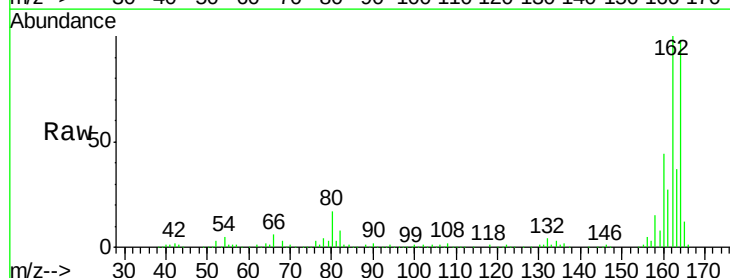
Tgt Ion:164 Resp: 372623

Ion Ratio Lower Upper

164 100

162 102.2 81.2 121.8

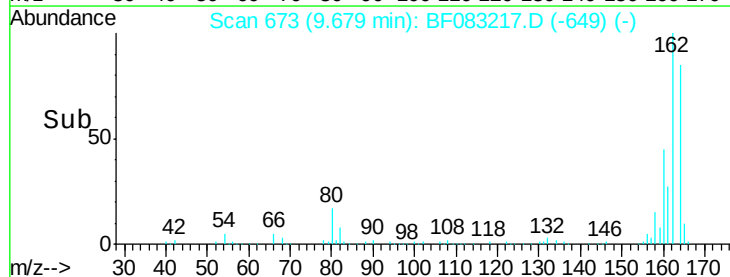
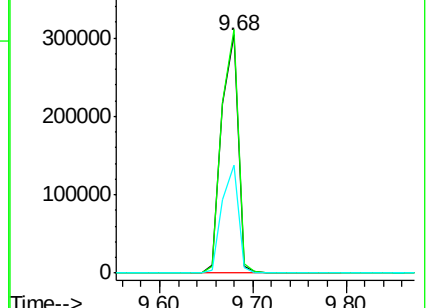
160 45.4 35.6 53.4

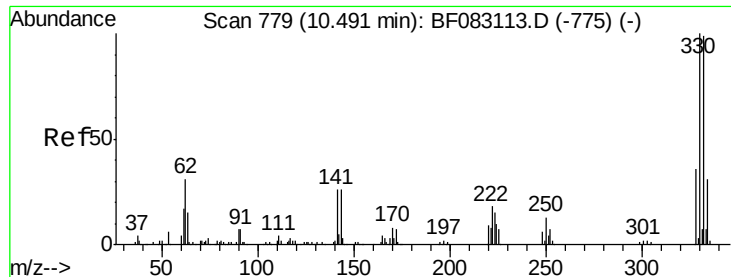


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

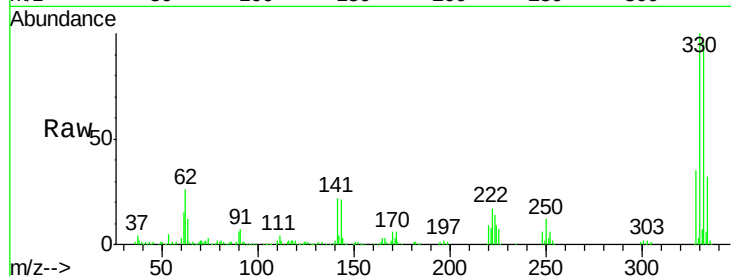




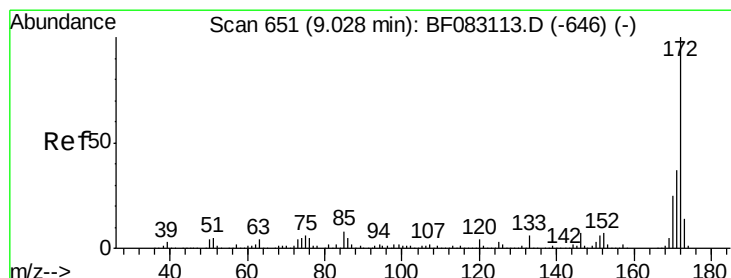
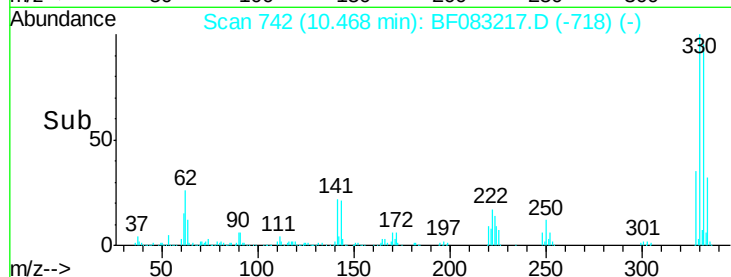
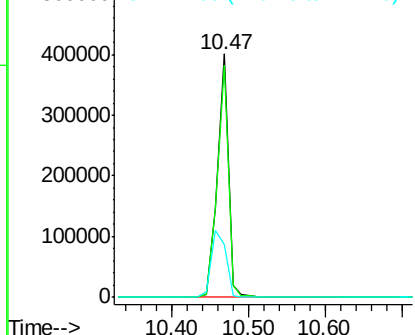
#41
 2,4,6-Tribromophenol
 Concen: 104.98 ng
 RT: 10.47 min Scan# 742
 Delta R.T. -0.02 min
 Lab File: BF083217.D
 Acq: 23 Nov 2015 21:38

Instrument :
 BNA_F
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 FILL-DIRT-2

Tgt Ion:330 Resp: 400189
 Ion Ratio Lower Upper
 330 100
 332 96.4 77.7 116.5
 141 36.6 29.7 44.5

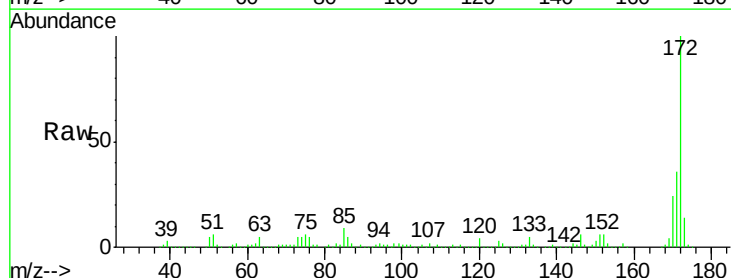


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

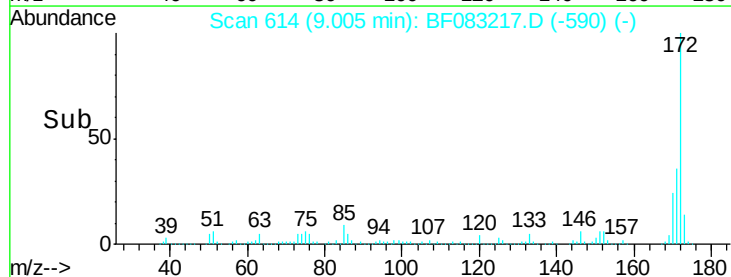
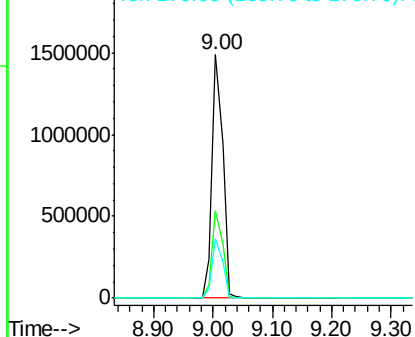


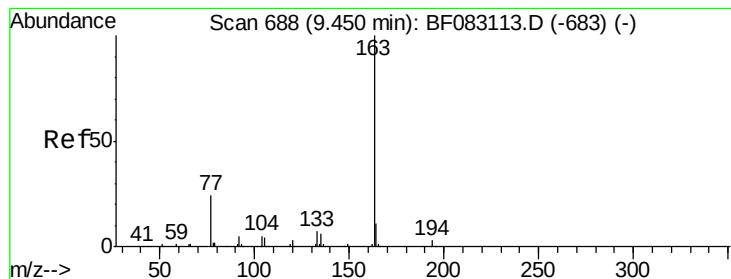
#44
 2-Fluorobiphenyl
 Concen: 69.97 ng
 RT: 9.00 min Scan# 614
 Delta R.T. -0.02 min
 Lab File: BF083217.D
 Acq: 23 Nov 2015 21:38

Tgt Ion:172 Resp: 1869674
 Ion Ratio Lower Upper
 172 100
 171 36.1 29.5 44.3
 170 24.1 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: 13.53 ng

RT: 9.40 min Scan# 649

Delta R.T. -0.05 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

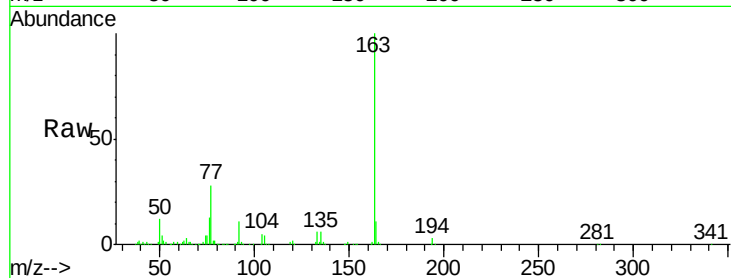
Tgt Ion:163 Resp: 388204

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

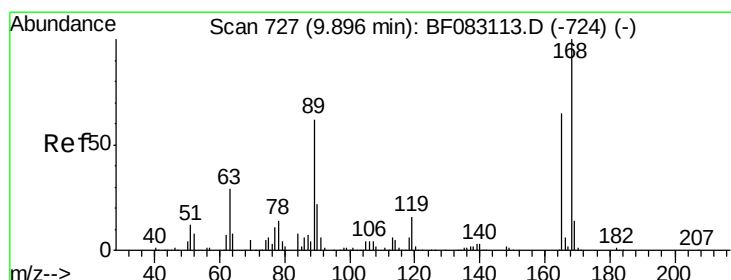
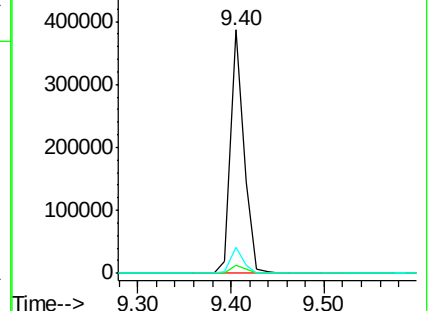
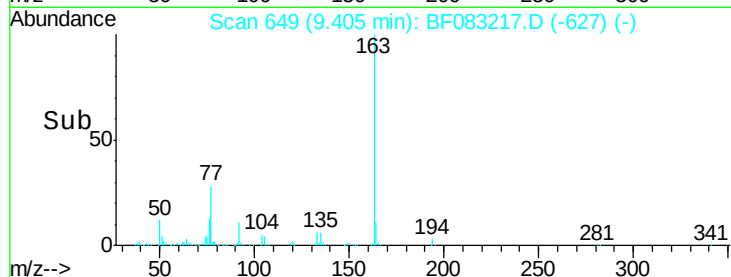
164 10.5 8.6 12.8



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: 5.85 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.22 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Tgt Ion:165 Resp: 47700

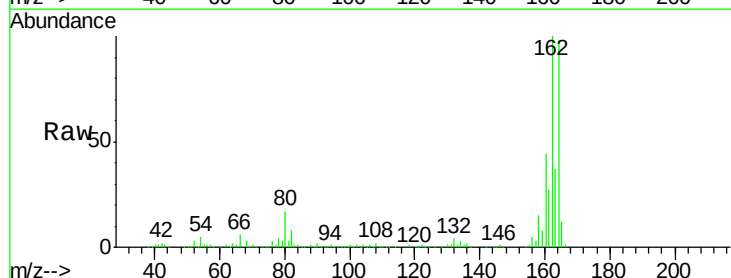
Ion Ratio Lower Upper

165 100

63 1.8 54.5 81.7#

89 1.6 77.3 115.9#

182 0.0 1.8 2.6#

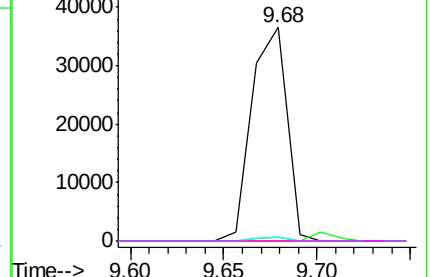
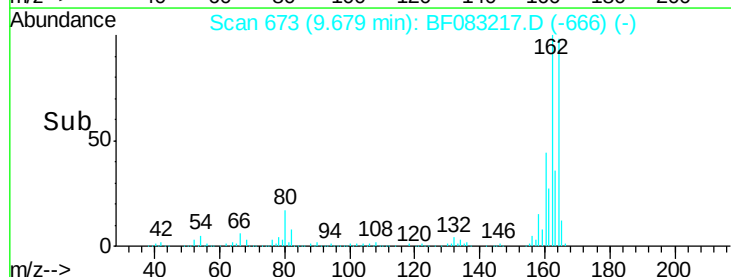


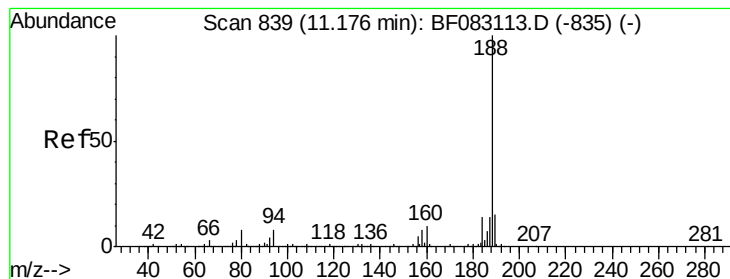
Abundance Ion 165.00 (164.70 to 165.70): E

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: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

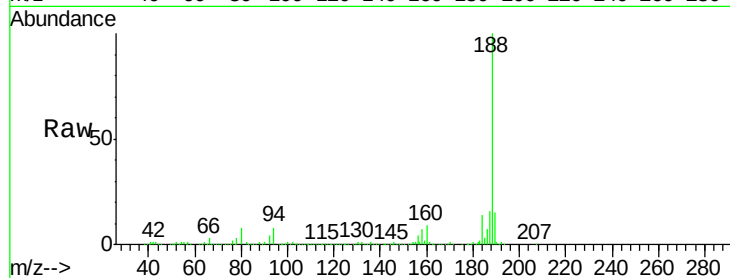
Tgt Ion:188 Resp: 636860

Ion Ratio Lower Upper

188 100

94 8.0 6.0 9.0

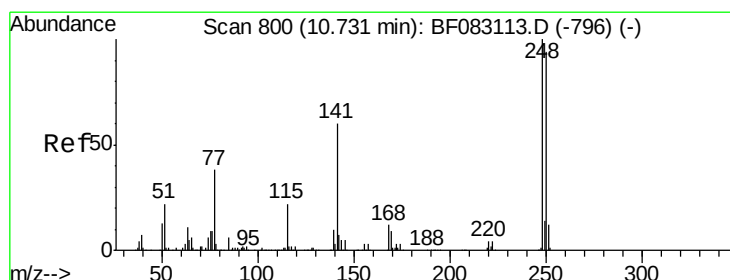
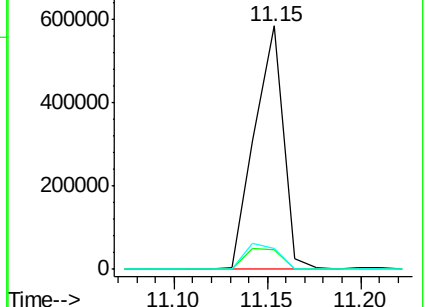
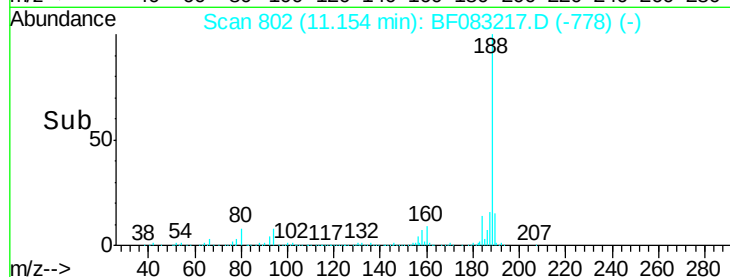
80 8.5 6.7 10.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66

4-Bromophenyl-phenylether

Concen: 3.90 ng

RT: 10.47 min Scan# 742

Delta R.T. -0.26 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

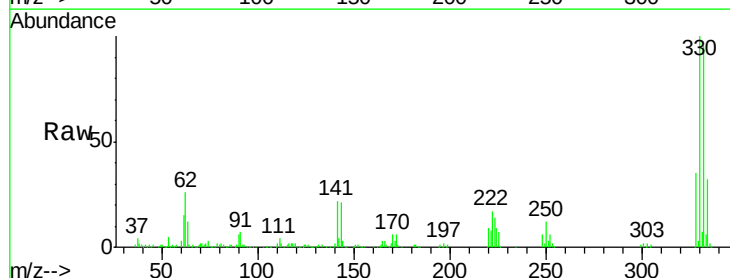
Tgt Ion:248 Resp: 27591

Ion Ratio Lower Upper

248 100

250 197.4 75.4 113.2#

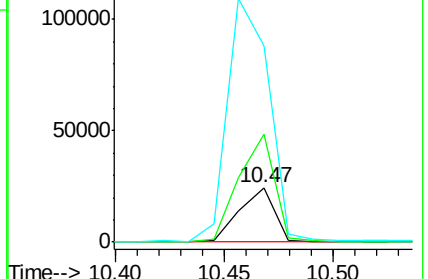
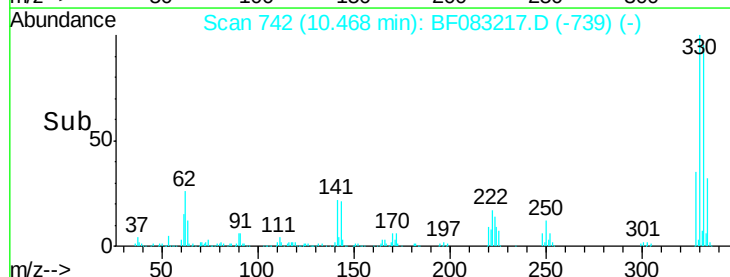
141 358.5 48.1 72.1#

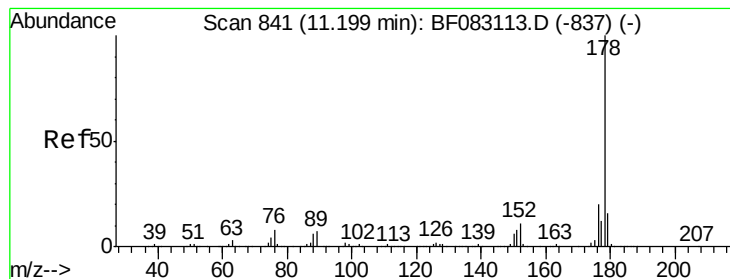


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 5.06 ng

RT: 11.18 min Scan# 804

Delta R.T. -0.02 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

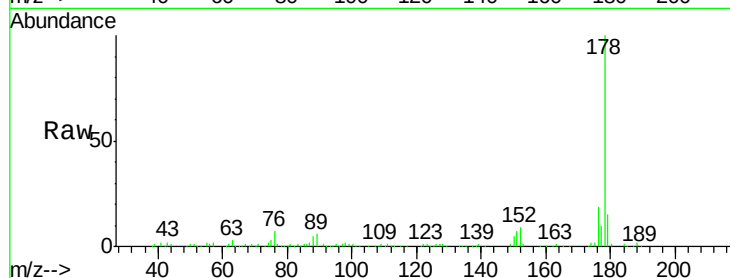
Tgt Ion:178 Resp: 185479

Ion Ratio Lower Upper

178 100

176 18.6 16.2 24.2

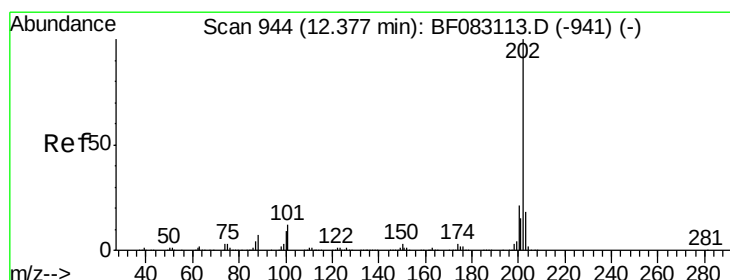
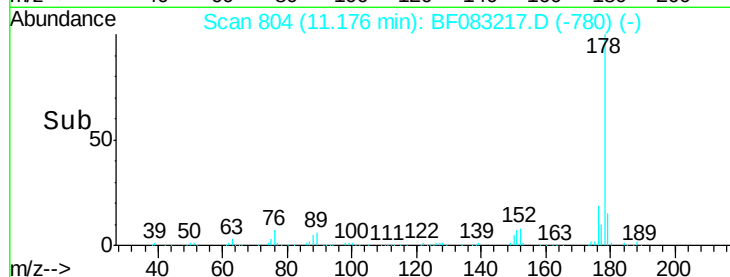
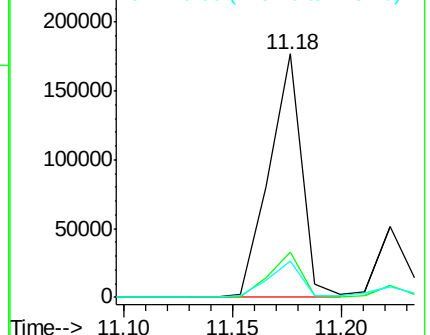
179 15.0 12.8 19.2



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: 7.53 ng

RT: 12.35 min Scan# 907

Delta R.T. -0.02 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

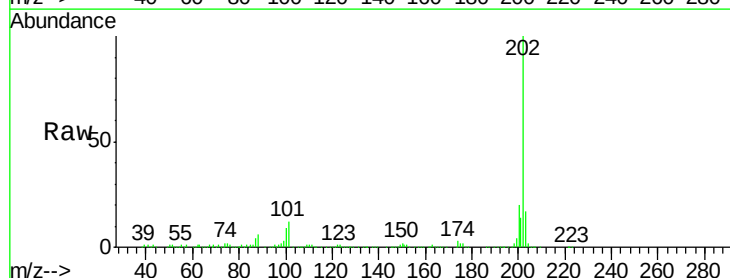
Tgt Ion:202 Resp: 282663

Ion Ratio Lower Upper

202 100

101 12.3 0.0 32.3

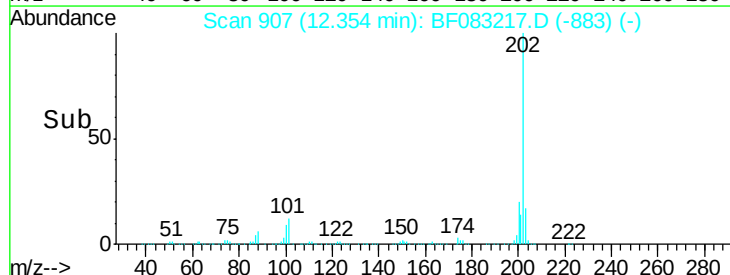
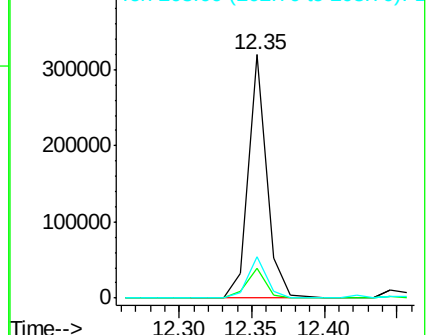
203 17.1 0.0 38.4

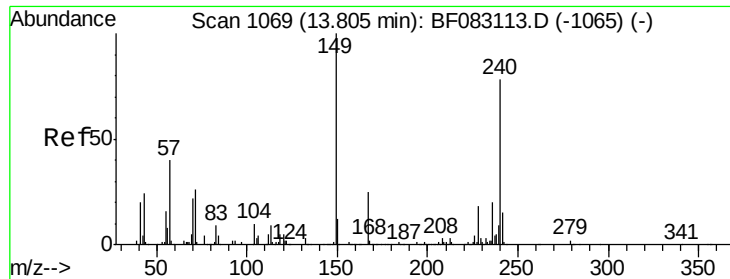


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

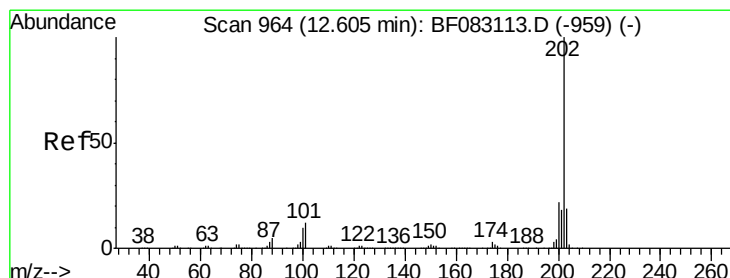
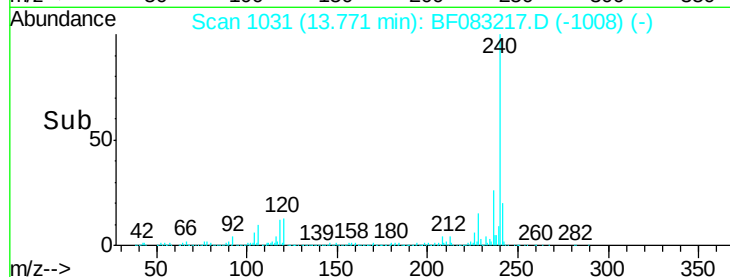
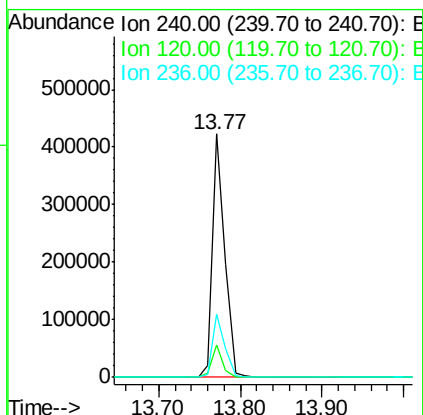
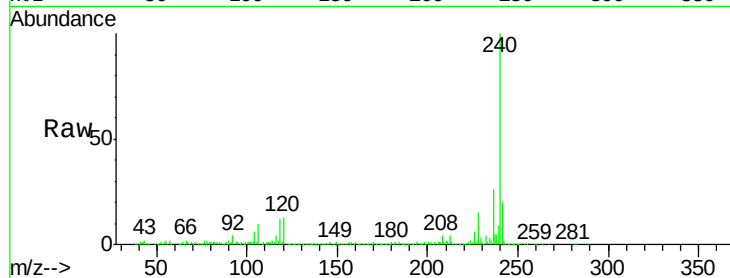




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.77 min Scan# 1031
 Delta R.T. -0.03 min
 Lab File: BF083217.D
 Acq: 23 Nov 2015 21:38

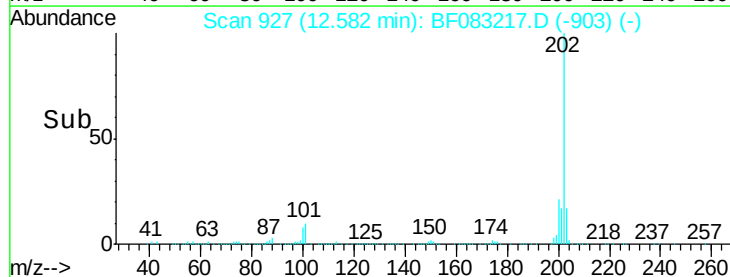
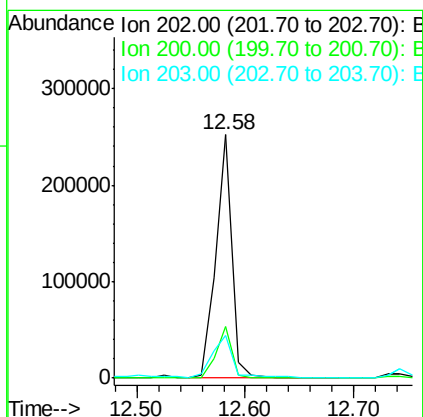
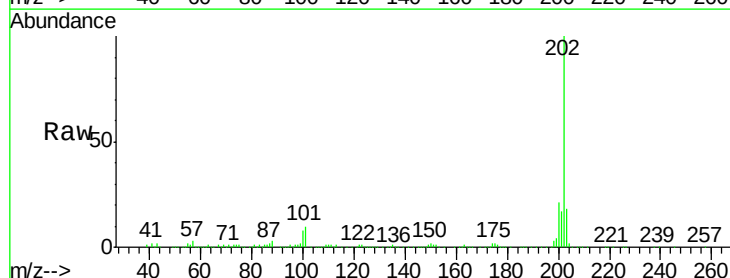
Instrument :
 BNA_F
 ClientSampleId :
 FILL-DIRT-2

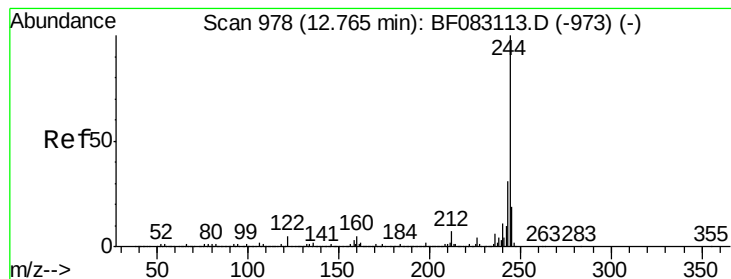
Tgt Ion:240 Resp: 450895
 Ion Ratio Lower Upper
 240 100
 120 13.4 5.4 8.2#
 236 25.8 20.6 31.0



#77
 Pyrene
 Concen: 8.44 ng
 RT: 12.58 min Scan# 927
 Delta R.T. -0.02 min
 Lab File: BF083217.D
 Acq: 23 Nov 2015 21:38

Tgt Ion:202 Resp: 260045
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.8 26.6
 203 17.5 15.0 22.4





#78

Terphenyl-d14

Concen: 74.98 ng

RT: 12.73 min Scan# 940

Delta R.T. -0.03 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

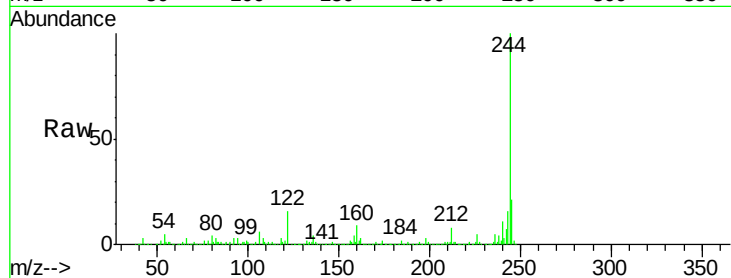
Tgt Ion:244 Resp: 1435697

Ion Ratio Lower Upper

244 100

212 8.0 5.4 8.2

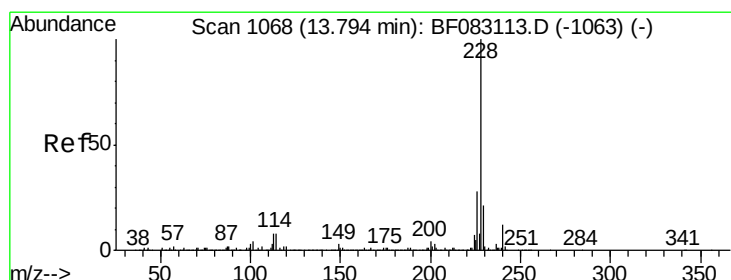
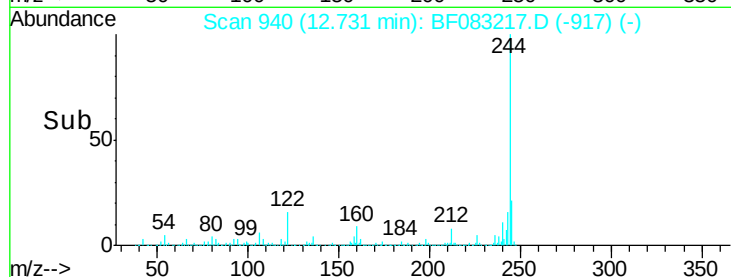
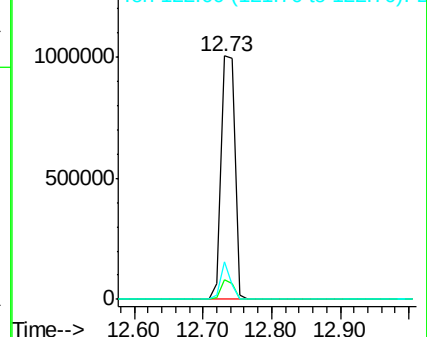
122 15.6 4.3 6.5#



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: 4.66 ng

RT: 13.76 min Scan# 1030

Delta R.T. -0.03 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

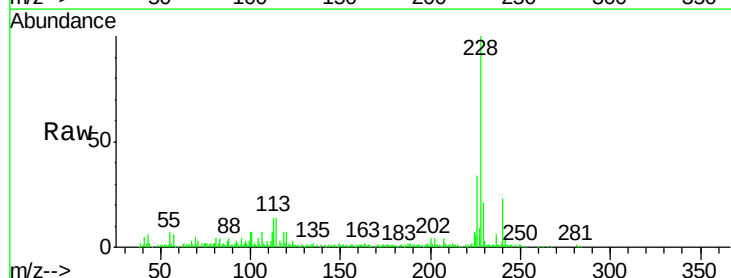
Tgt Ion:228 Resp: 129981

Ion Ratio Lower Upper

228 100

226 34.2 22.6 33.8#

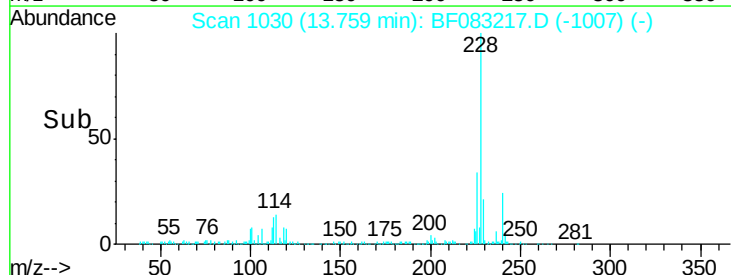
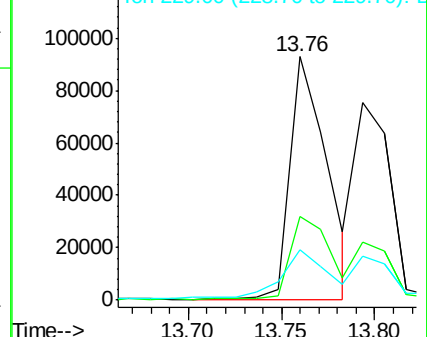
229 20.9 16.6 24.8

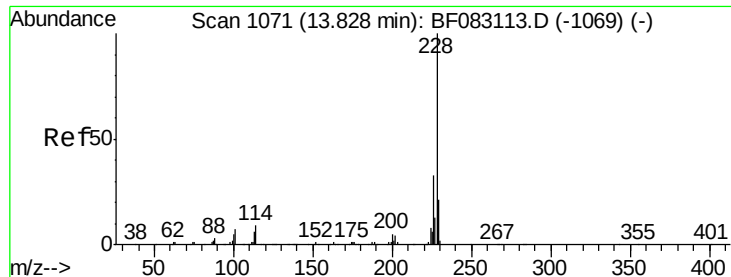


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 5.03 ng

RT: 13.76 min Scan# 1030

Delta R.T. -0.07 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

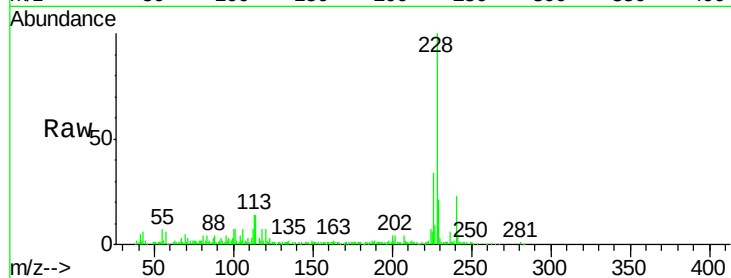
Tgt Ion: 228 Resp: 129981

Ion Ratio Lower Upper

228 100

226 34.2 25.5 38.3

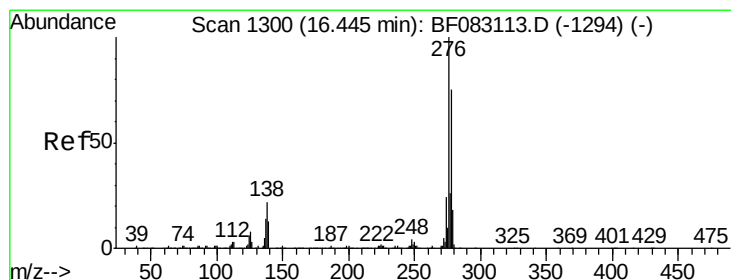
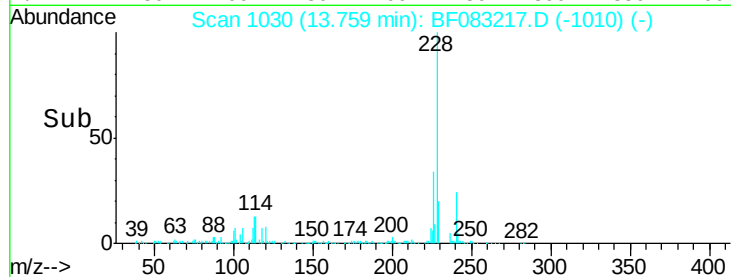
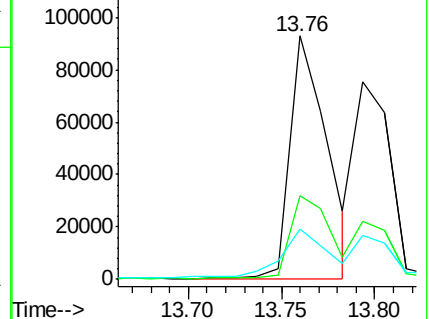
229 20.9 16.6 25.0



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: 2.86 ng

RT: 16.39 min Scan# 1260

Delta R.T. -0.06 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

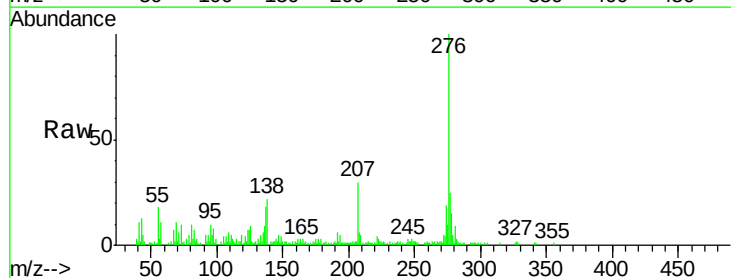
Tgt Ion: 276 Resp: 67163

Ion Ratio Lower Upper

276 100

138 23.6 18.0 27.0

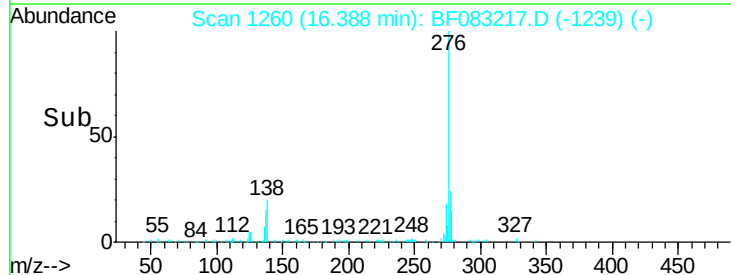
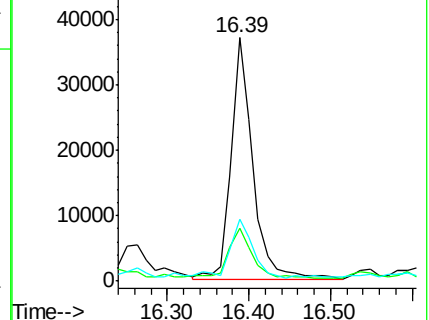
277 27.5 20.2 30.4

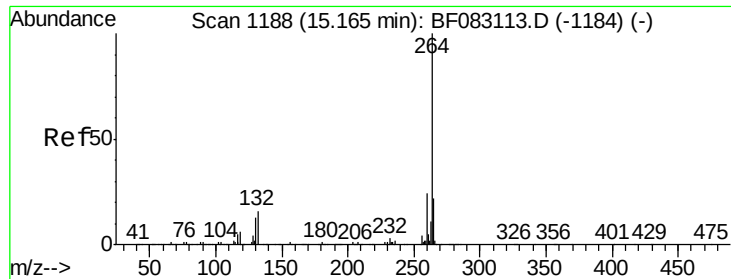


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



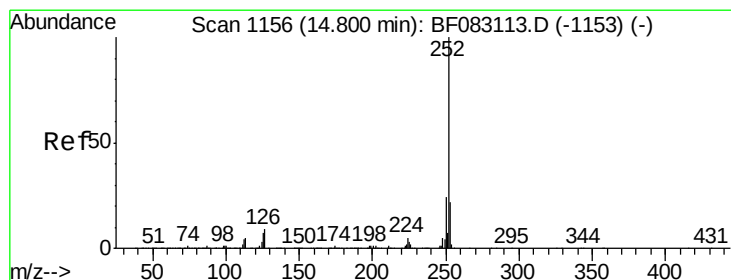
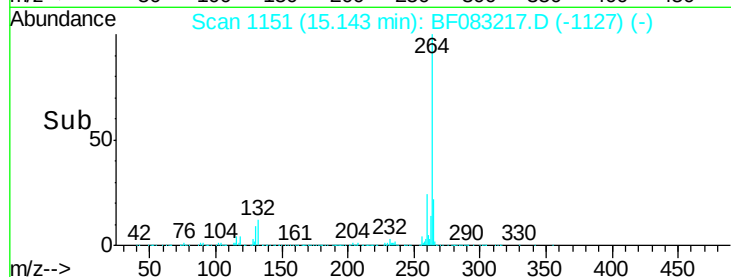
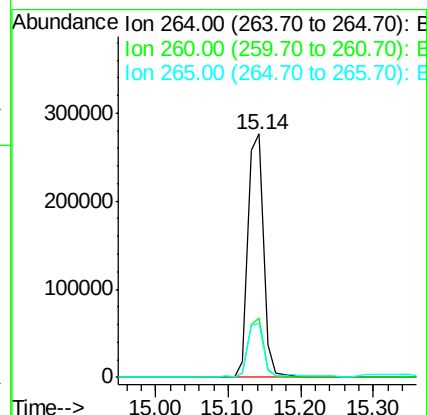
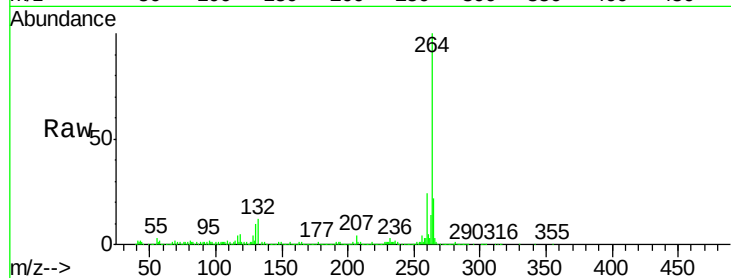


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.14 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BF083217.D
Acq: 23 Nov 2015 21:38

Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-2

Tgt Ion: 264 Resp: 417114

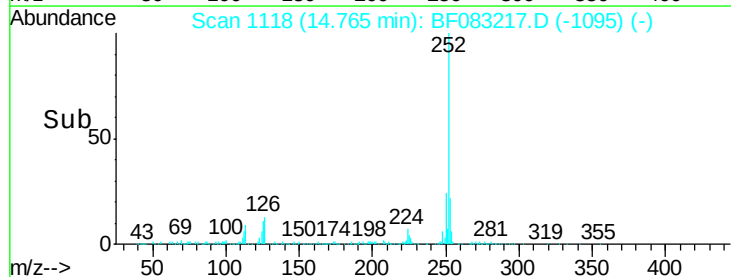
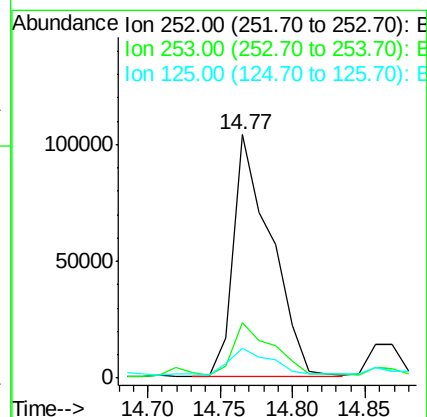
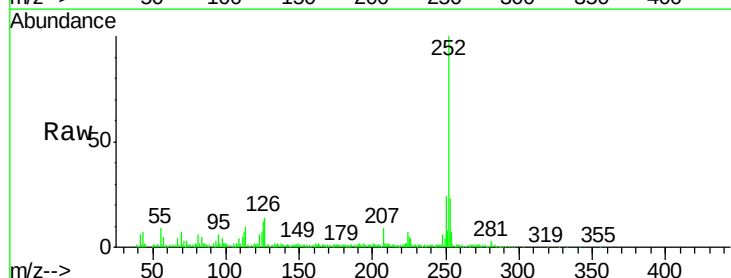
Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.1	28.7
265	22.0	18.2	27.4

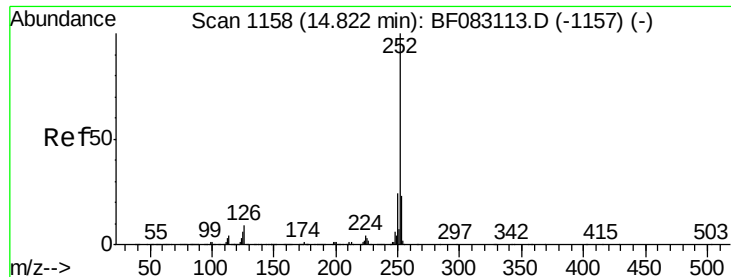


#87
Benzo(b)fluoranthene
Concen: 6.52 ng
RT: 14.77 min Scan# 1118
Delta R.T. -0.03 min
Lab File: BF083217.D
Acq: 23 Nov 2015 21:38

Tgt Ion: 252 Resp: 185962

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.7	26.5
125	12.2	5.6	8.4

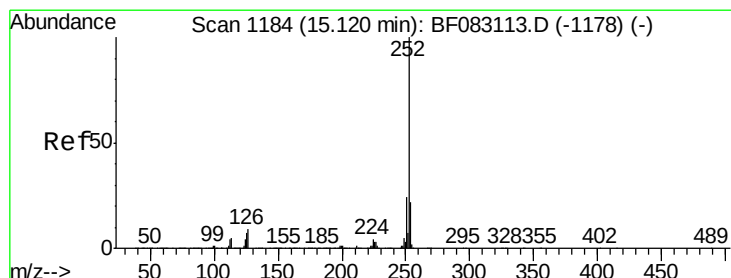
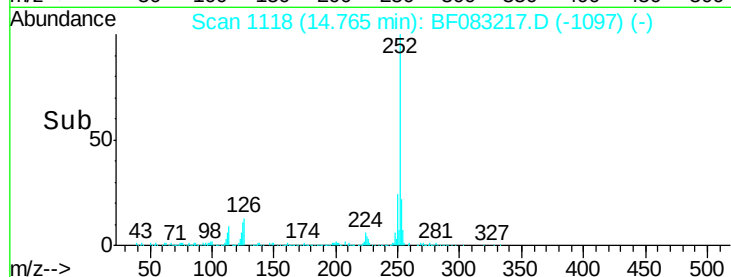
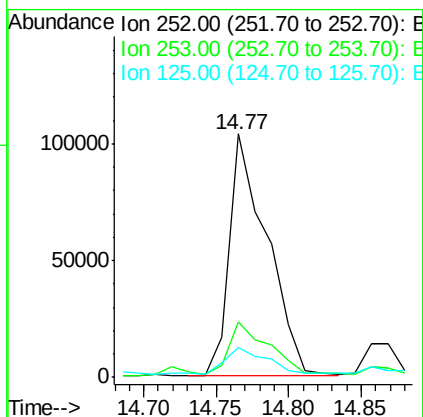
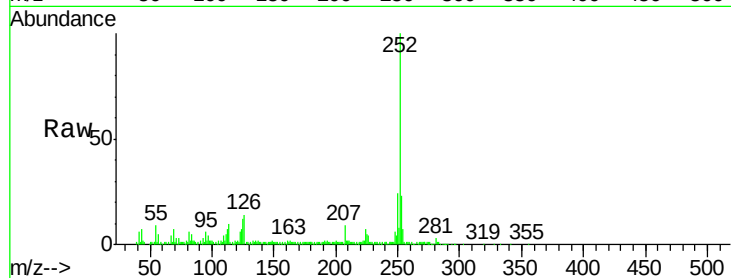




#88
Benzo(k)fluoranthene
Concen: 8.75 ng
RT: 14.77 min Scan# 1118
Delta R.T. -0.06 min
Lab File: BF083217.D
Acq: 23 Nov 2015 21:38

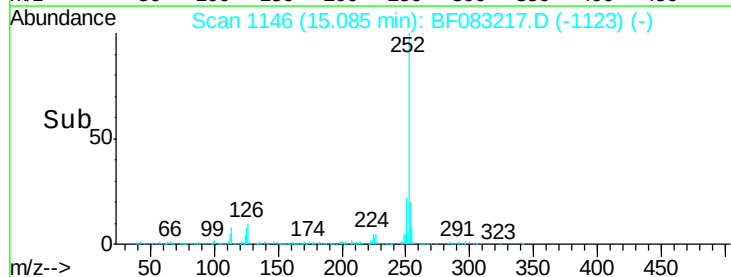
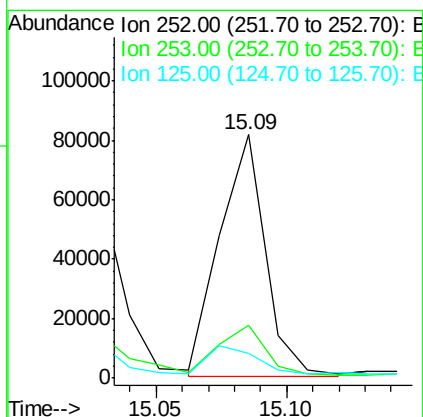
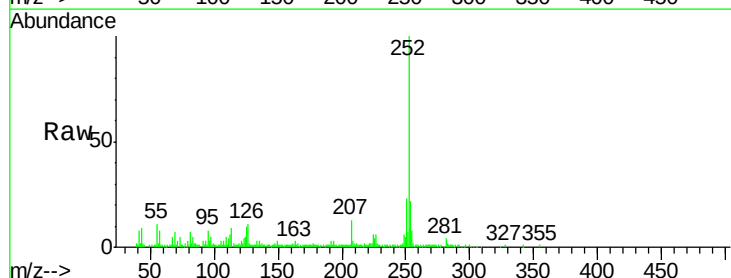
Instrument :
BNA_F
ClientSampleId :
FILL-DIRT-2

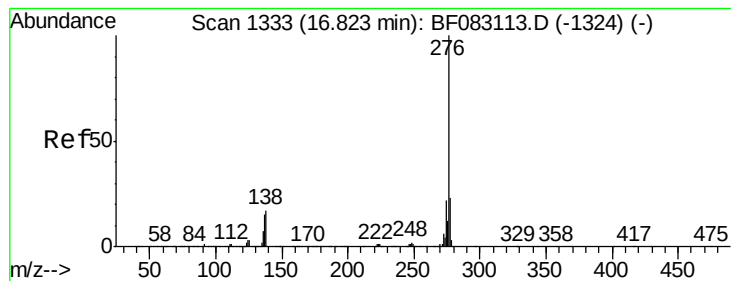
Tgt Ion:	252	Resp:	185696
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.2	27.2
125	12.2	6.8	10.2#



#89
Benzo(a)pyrene
Concen: 4.24 ng
RT: 15.09 min Scan# 1146
Delta R.T. -0.03 min
Lab File: BF083217.D
Acq: 23 Nov 2015 21:38

Tgt Ion:	252	Resp:	99872
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.5	26.3
125	10.2	5.4	8.0#





#91

Benzo(g,h,i)perylene

Concen: 3.02 ng

RT: 16.77 min Scan# 1293

Delta R.T. -0.06 min

Lab File: BF083217.D

Acq: 23 Nov 2015 21:38

Instrument :

BNA_F

ClientSampleId :

FILL-DIRT-2

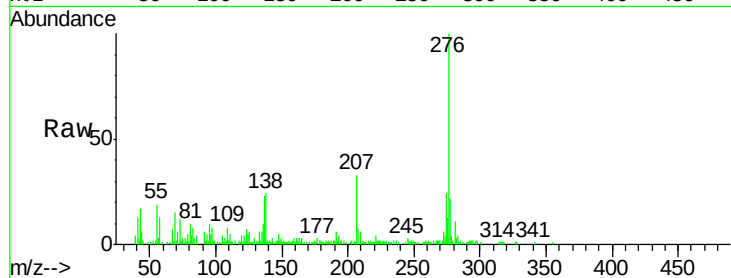
Tgt Ion: 276 Resp: 63077

Ion Ratio Lower Upper

276 100

277 22.5 18.7 28.1

138 23.7 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

