

Data Path : Z:\HPCHEM1\BNA E\DATA\BE051016\
 Data File : BE091768.D
 Acq On : 10 May 2016 22:22
 Operator : UM/SJ
 Sample : H2817-26
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

Quant Time: May 11 13:41:43 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE042616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 26 16:09:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	38506	5.00	ng	0.00
7) Naphthalene-d8	10.57	136	182149	5.00	ng	0.00
13) Acenaphthene-d10	14.40	164	109579	5.00	ng	-0.01
19) Phenanthrene-d10	17.15	188	259428	5.00	ng	0.00
26) Chrysene-d12	21.31	240	246565	5.00	ng	0.00
35) Perylene-d12	23.74	264	269131	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	57556	6.08	ng	0.00
5) Phenol-d6	6.95	99	91997	7.33	ng	0.00
8) Nitrobenzene-d5	8.95	82	42145	3.58	ng	0.00
14) 2,4,6-Tribromophenol	15.90	330	29137	7.16	ng	0.00
15) 2-Fluorobiphenyl	13.04	172	122635	3.96	ng	0.00
29) Terphenyl-d14	19.76	244	203339	5.29	ng	0.00

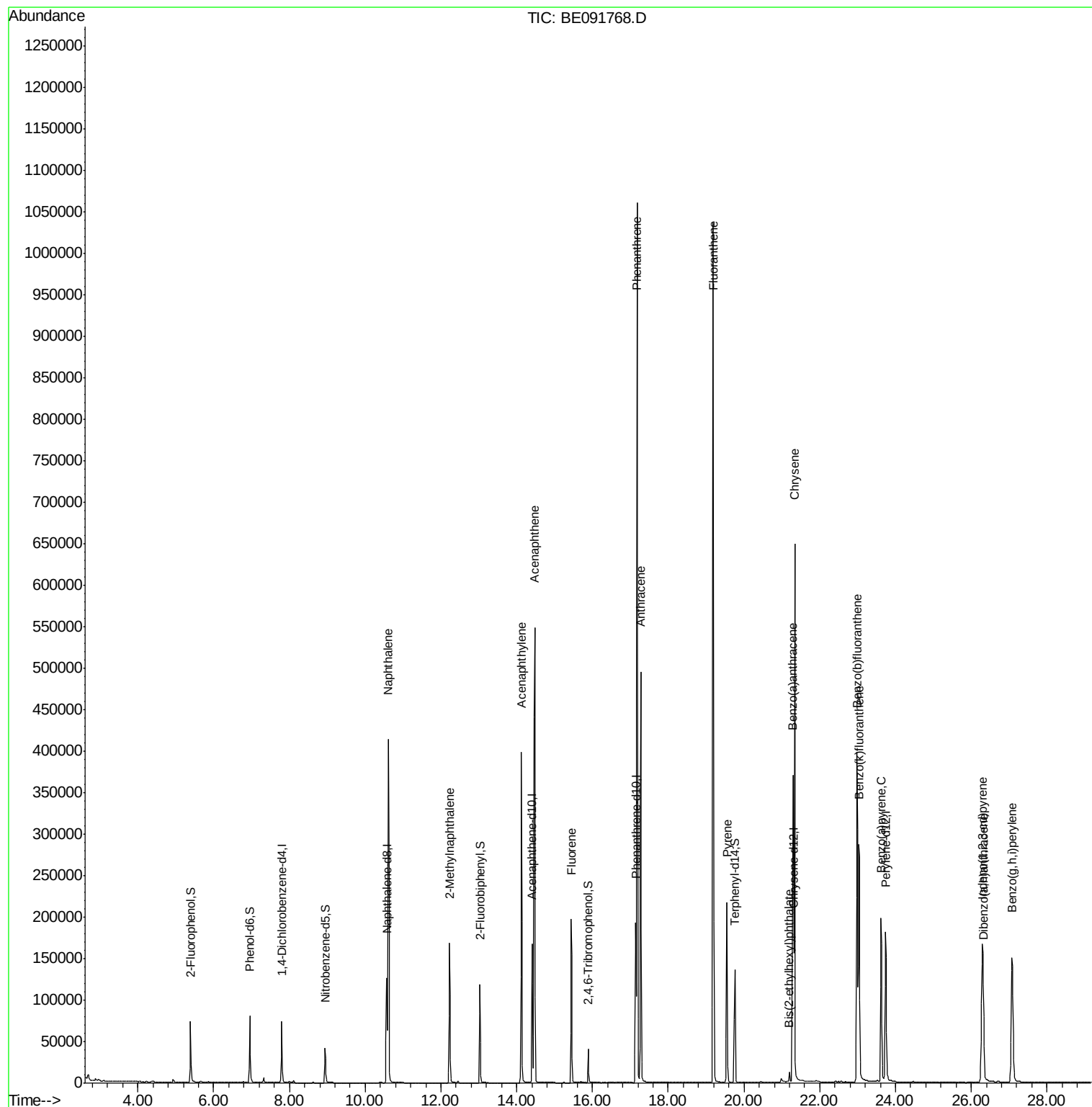
Target Compounds						Qvalue
10) Naphthalene	10.61	128	631734	17.17	ng	98
12) 2-Methylnaphthalene	12.23	142	126305	5.34	ng	99
16) Acenaphthylene	14.12	152	489195	11.61	ng	# 86
17) Acenaphthene	14.47	154	321801	11.77	ng	88
18) Fluorene	15.44	166	148572	4.37	ng	98
23) Phenanthrene	17.18	178	1137166	19.29	ng	99
24) Anthracene	17.27	178	546233	10.27	ng	98
25) Fluoranthene	19.19	202	1021473	16.58	ng	# 96
28) Pyrene	19.55	202	218792	3.93	ng	96
30) Benzo(a)anthracene	21.29	228	401308m	6.66	ng	
32) Chrysene	21.34	228	628587m	10.04	ng	
33) Bis(2-ethylhexyl)phthalate	21.20	149	13912	0.76	ng	# 88
34) Indeno(1,2,3-cd)pyrene	26.29	276	325544	5.84	ng	# 91
36) Benzo(b)fluoranthene	22.99	252	570018	9.04	ng	98
37) Benzo(k)fluoranthene	23.03	252	438525	6.84	ng	97
38) Benzo(a)pyrene	23.62	252	328031	5.52	ng	96
39) Dibenzo(a,h)anthracene	26.32	278	126342	2.25	ng	# 94
40) Benzo(g,h,i)perylene	27.08	276	382301	6.69	ng	94

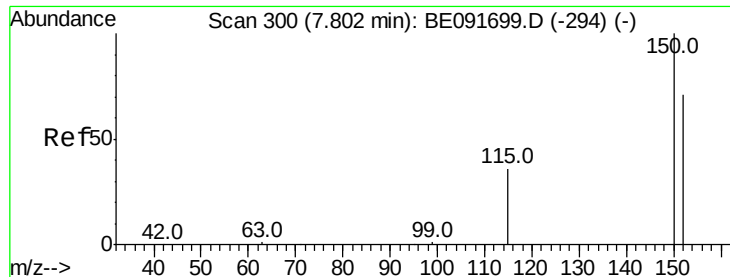
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

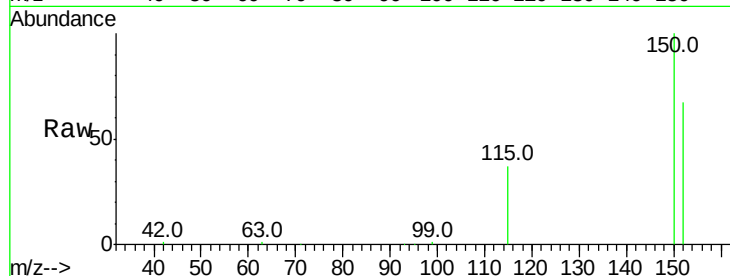
Tot Ion:152 Resp: 38506

Ion Ratio Lower Upper

152 100

150 150.0 122.6 183.8

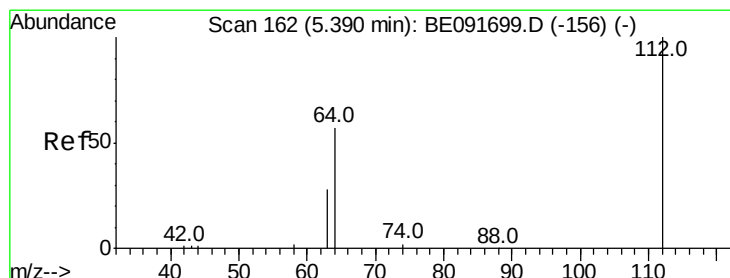
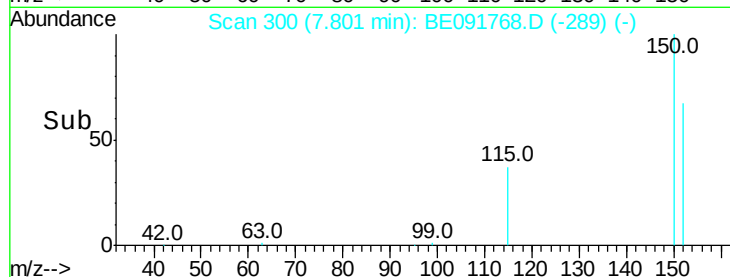
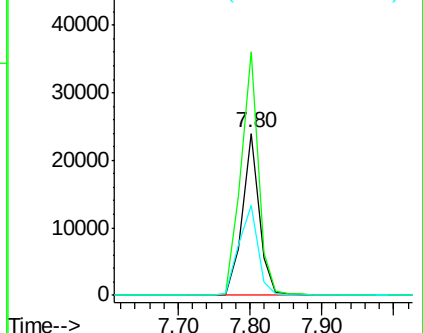
115 55.3 52.8 79.2



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



#4

2-Fluorophenol

Concen: 6.08 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

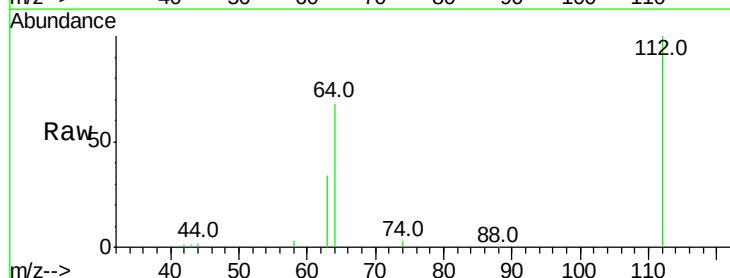
Tgt Ion:112 Resp: 57556

Ion Ratio Lower Upper

112 100

64 66.2 30.9 46.3#

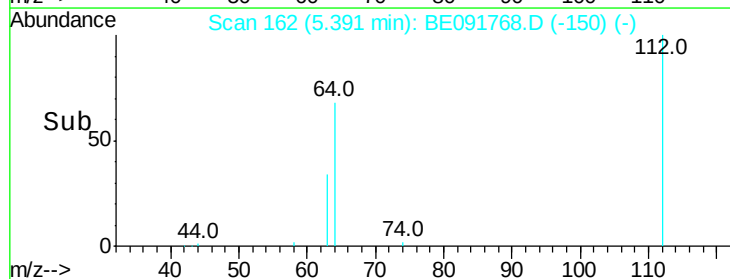
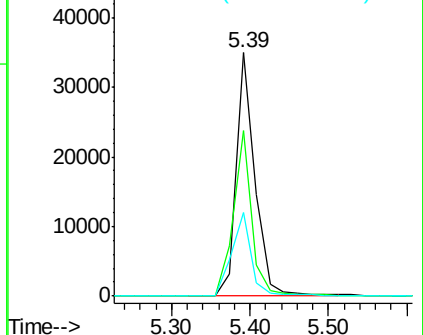
63 35.7 16.7 25.1#

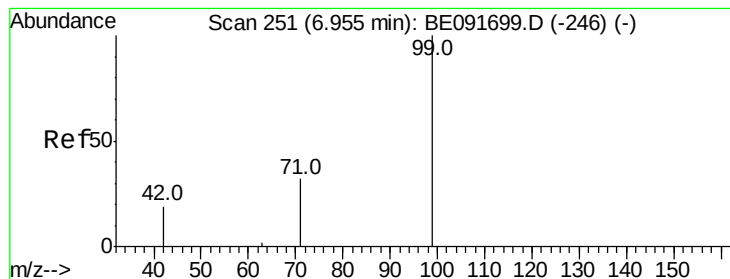


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 7.33 ng

RT: 6.95 min Scan# 251

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

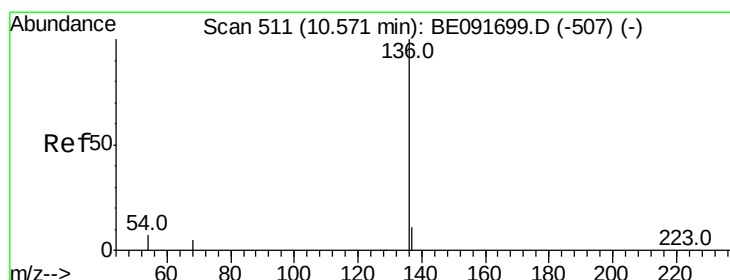
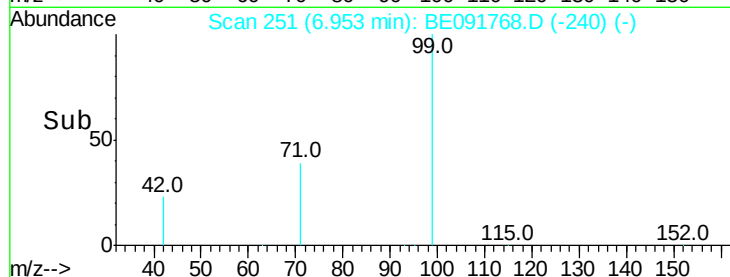
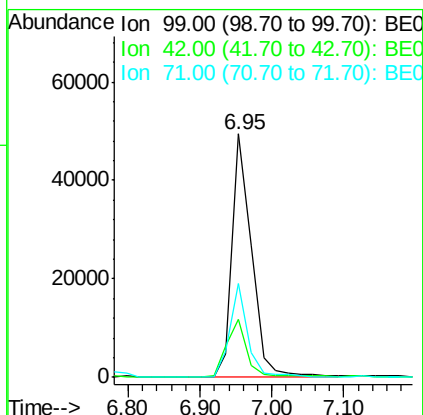
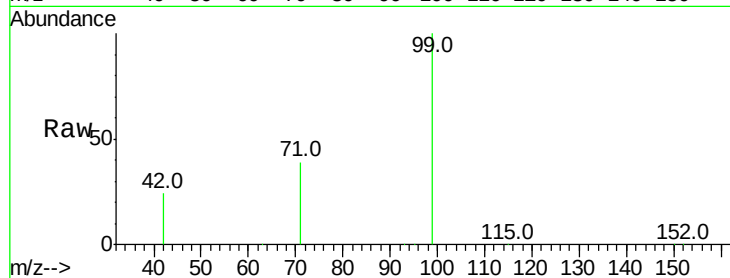
Tot Ion: 99 Resp: 91997

Ion Ratio Lower Upper

99 100

42 24.4 16.2 24.2#

71 36.0 29.0 43.4



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Tgt Ion: 136 Resp: 182149

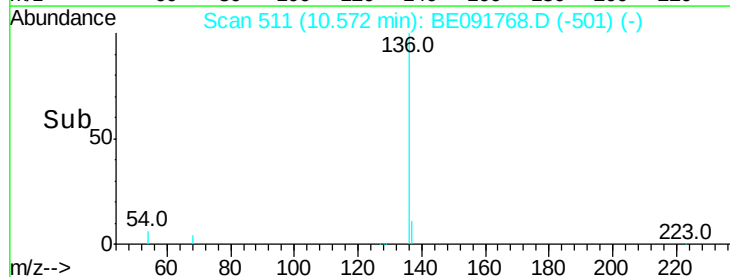
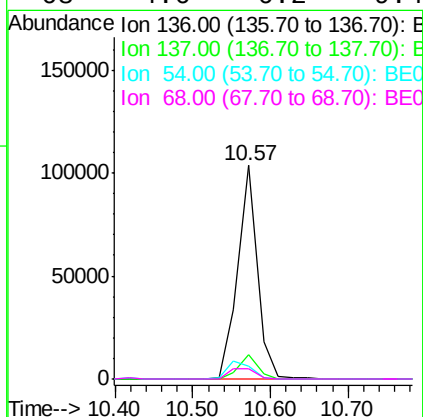
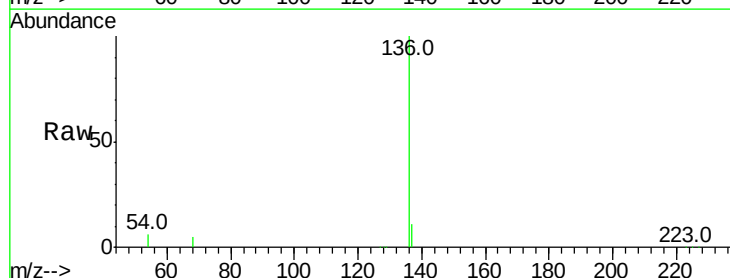
Ion Ratio Lower Upper

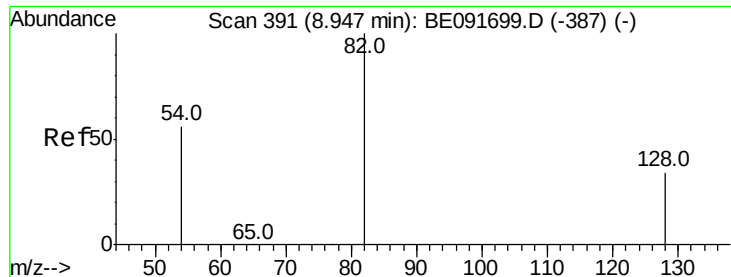
136 100

137 11.3 8.9 13.3

54 5.8 8.2 12.4#

68 4.6 6.2 9.4#





#8

Nitrobenzene-d5

Concen: 3.58 ng

RT: 8.95 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

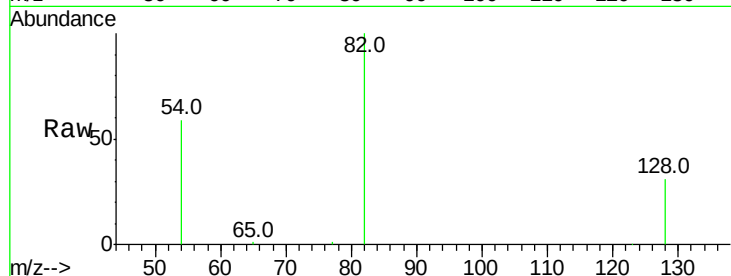
Tot Ion: 82 Resp: 42145

Ion Ratio Lower Upper

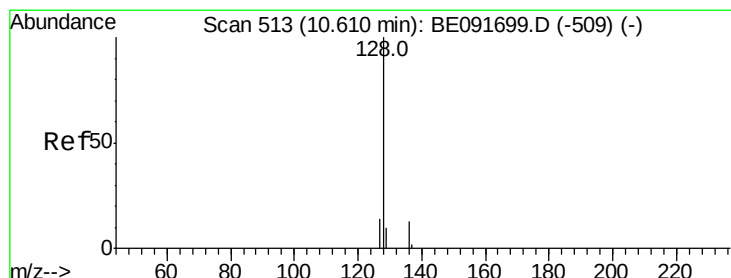
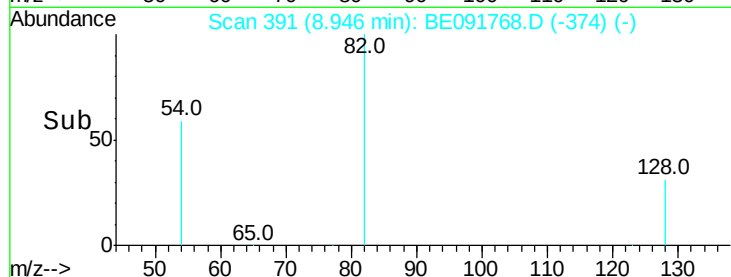
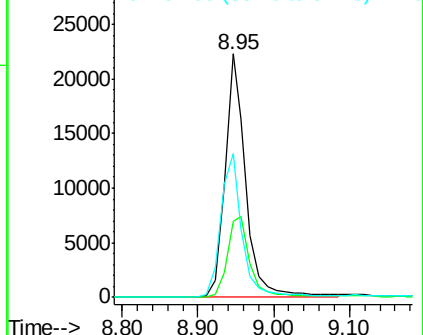
82 100

128 31.0 25.4 38.0

54 59.2 48.4 72.6



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#10

Naphthalene

Concen: 17.17 ng

RT: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

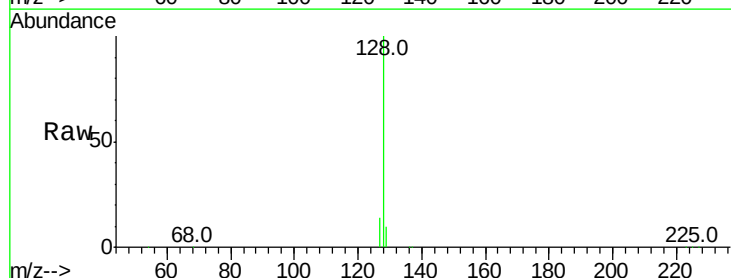
Tgt Ion: 128 Resp: 631734

Ion Ratio Lower Upper

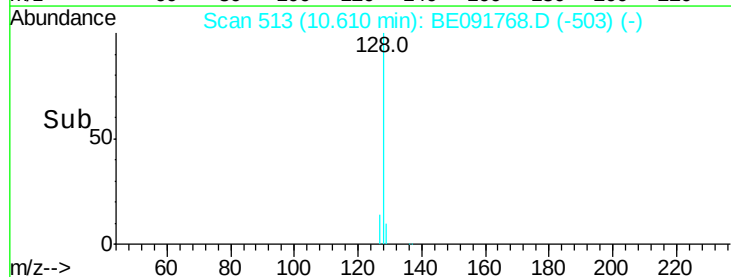
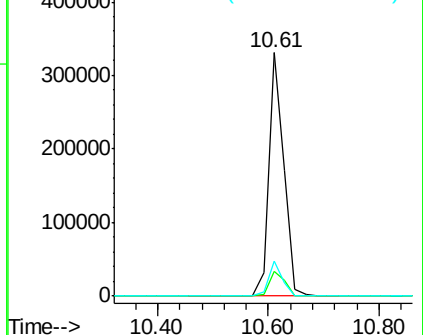
128 100

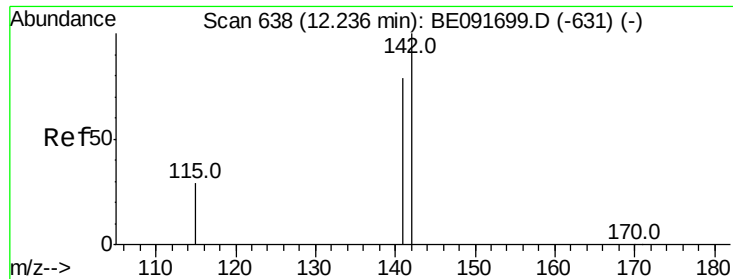
129 10.4 9.3 13.9

127 14.1 10.7 16.1



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

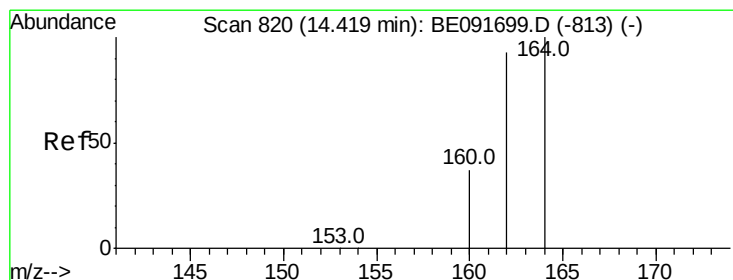
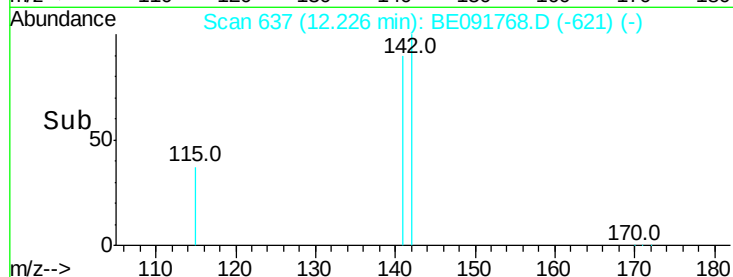
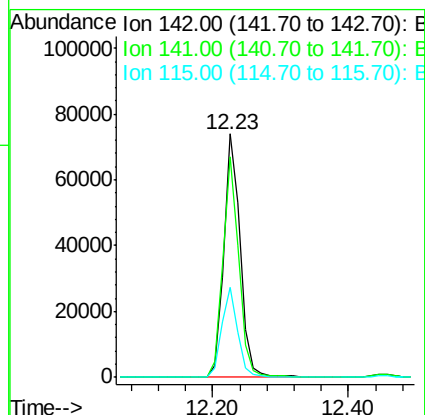
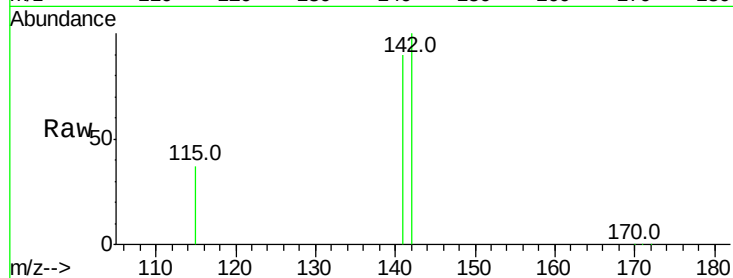




#12
2-Methylnaphthalene
Concen: 5.34 ng
RT: 12.23 min Scan# 637
Delta R.T. -0.01 min
Lab File: BE091768.D
Acq: 10 May 2016 22:22

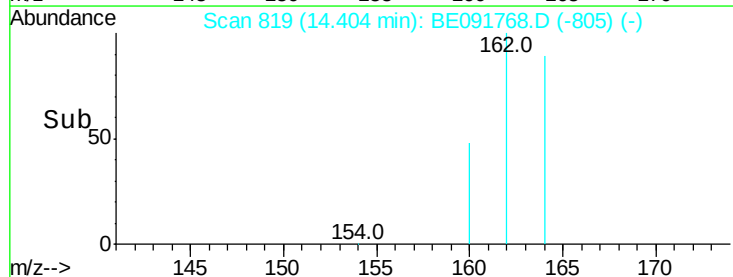
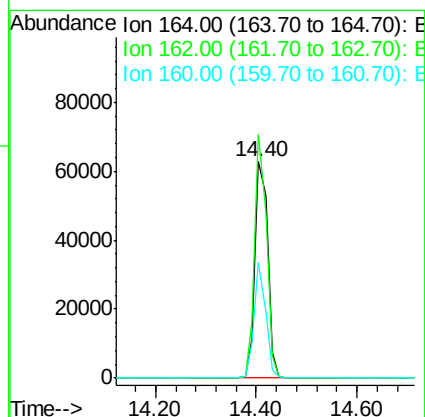
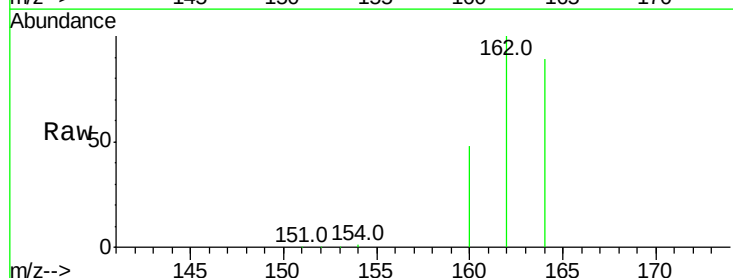
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

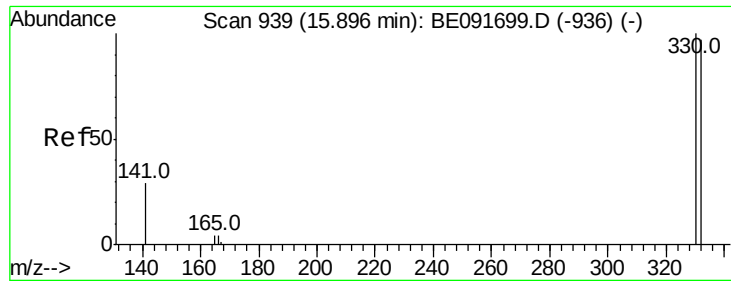
Tot Ion:142 Resp: 126305
Ion Ratio Lower Upper
142 100
141 90.5 71.4 107.0
115 37.0 30.3 45.5



#13
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 819
Delta R.T. -0.01 min
Lab File: BE091768.D
Acq: 10 May 2016 22:22

Tgt Ion:164 Resp: 109579
Ion Ratio Lower Upper
164 100
162 112.6 85.3 127.9
160 53.6 46.2 69.2

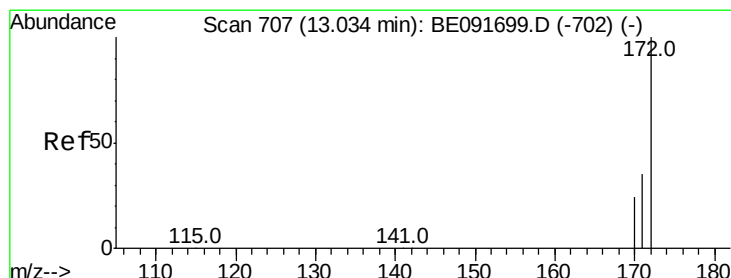
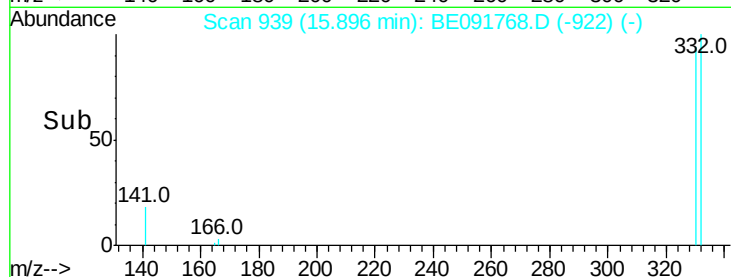
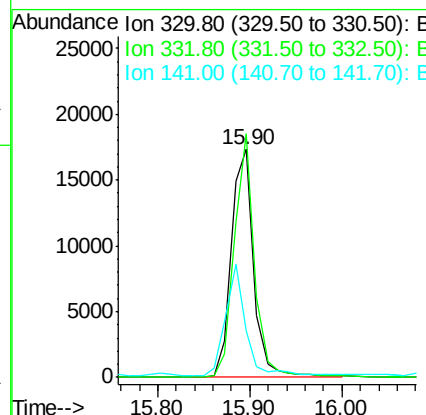
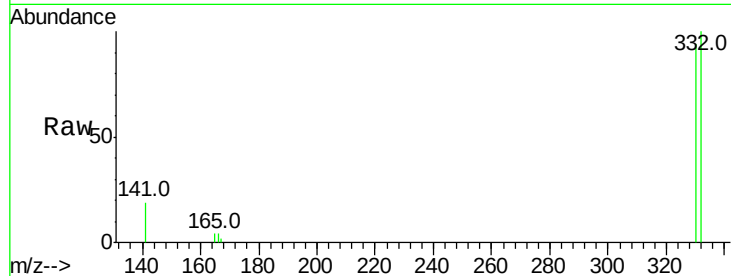




#14
 2,4,6-Tribromophenol
 Concen: 7.16 ng
 RT: 15.90 min Scan# 939
 Delta R.T. -0.00 min
 Lab File: BE091768.D
 Acq: 10 May 2016 22:22

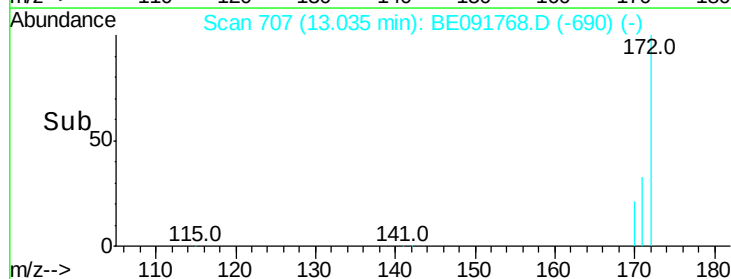
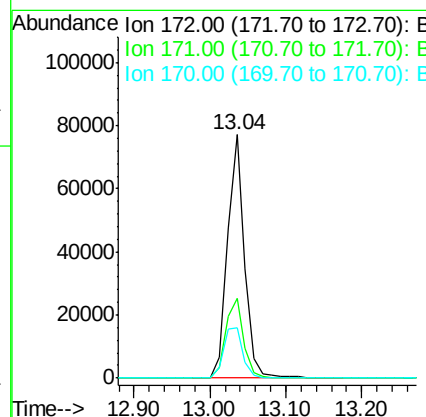
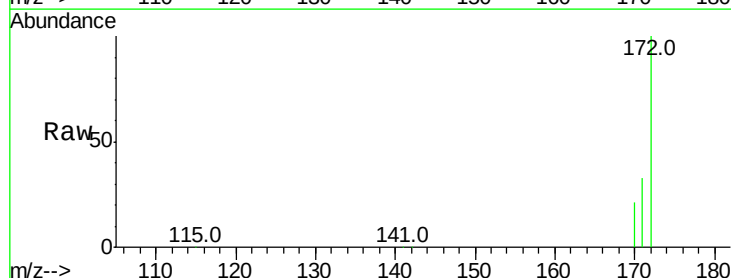
Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

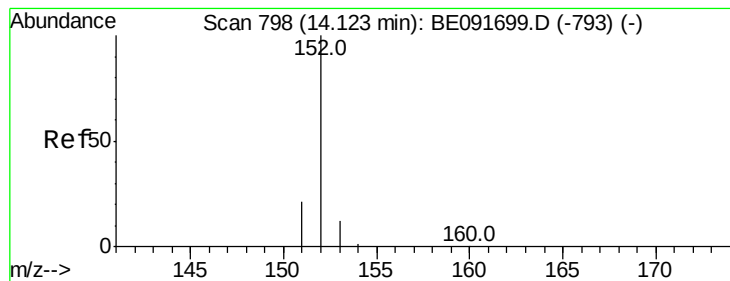
Tot Ion:330 Resp: 29137
 Ion Ratio Lower Upper
 330 100
 332 96.8 79.1 118.7
 141 44.1 125.4 188.0#



#15
 2-Fluorobiphenyl
 Concen: 3.96 ng
 RT: 13.04 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: BE091768.D
 Acq: 10 May 2016 22:22

Tgt Ion:172 Resp: 122635
 Ion Ratio Lower Upper
 172 100
 171 32.8 28.8 43.2
 170 20.9 19.3 28.9





#16

Acenaphthylene

Concen: 11.61 ng

RT: 14.12 min Scan# 798

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

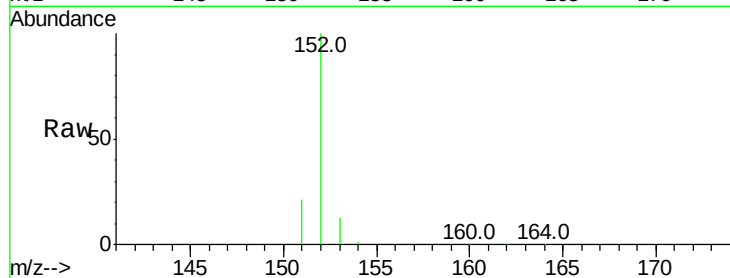
Tot Ion:152 Resp: 489195

Ion Ratio Lower Upper

152 100

151 20.2 3.9 5.9#

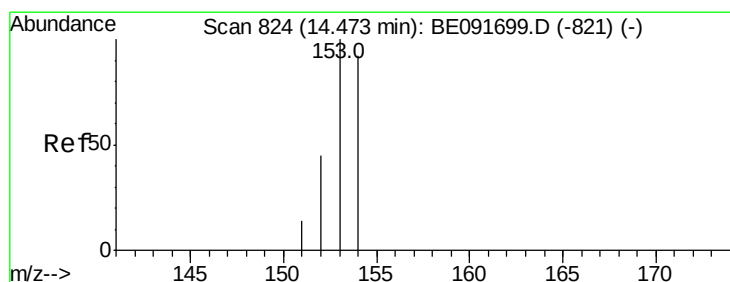
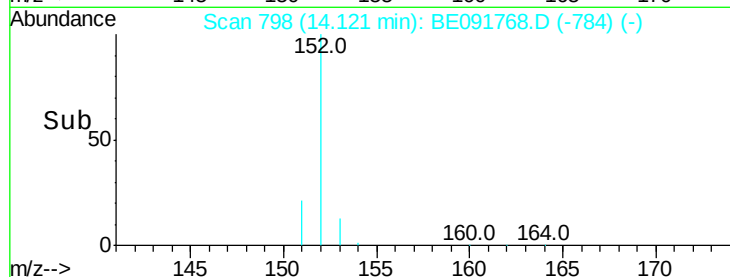
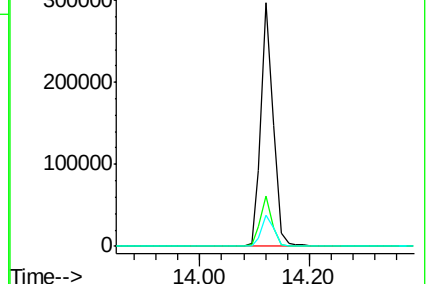
153 13.3 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 11.77 ng

RT: 14.47 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

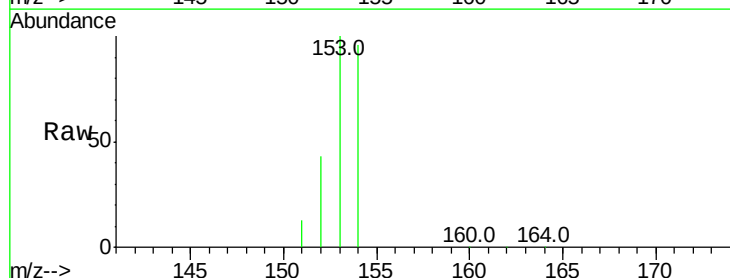
Tgt Ion:154 Resp: 321801

Ion Ratio Lower Upper

154 100

153 113.8 80.0 120.0

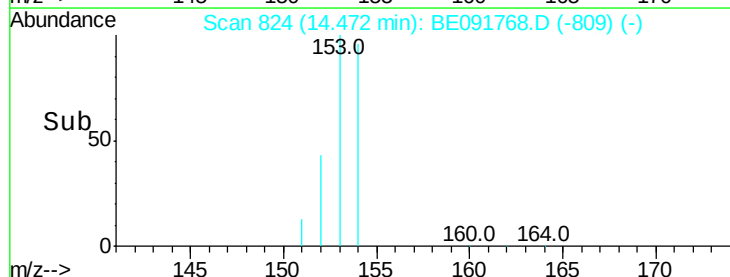
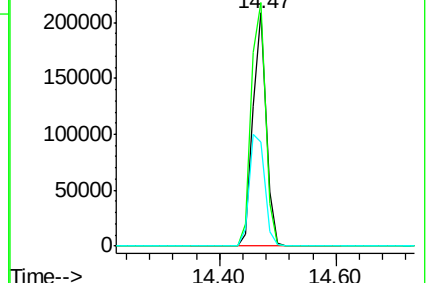
152 55.8 40.0 60.0

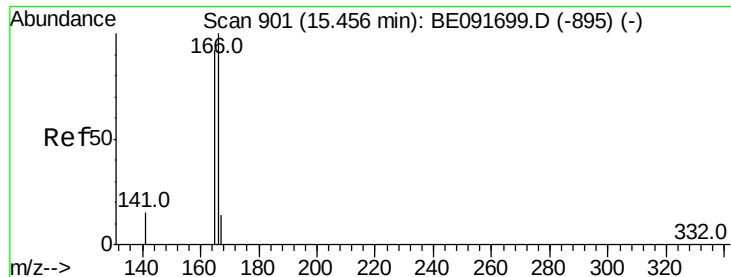


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 4.37 ng

RT: 15.44 min Scan# 900

Delta R.T. -0.01 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

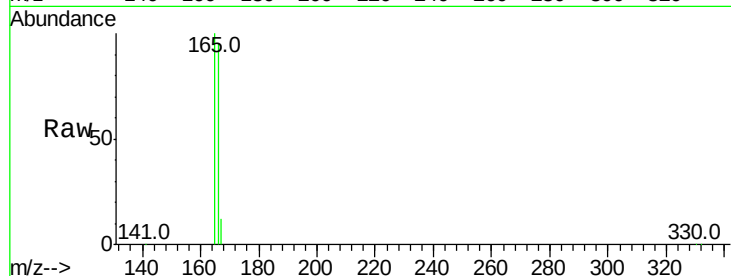
Tot Ion:166 Resp: 148572

Ion Ratio Lower Upper

166 100

165 98.4 80.8 121.2

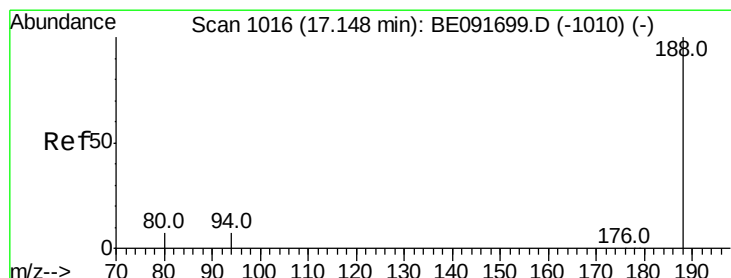
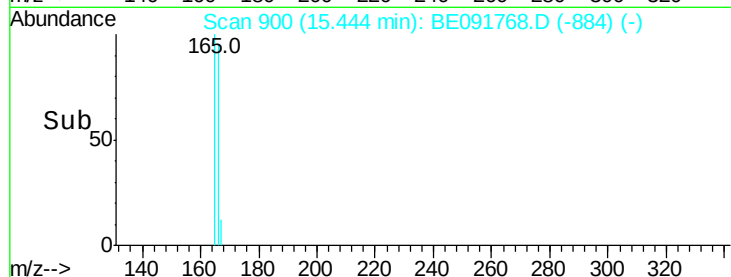
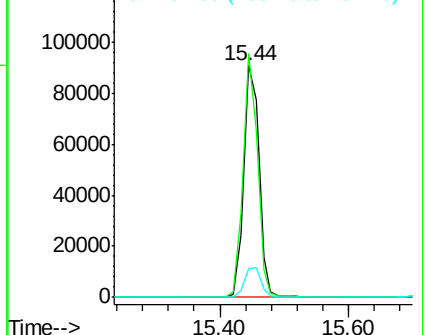
167 13.4 10.9 16.3



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.15 min Scan# 1015

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

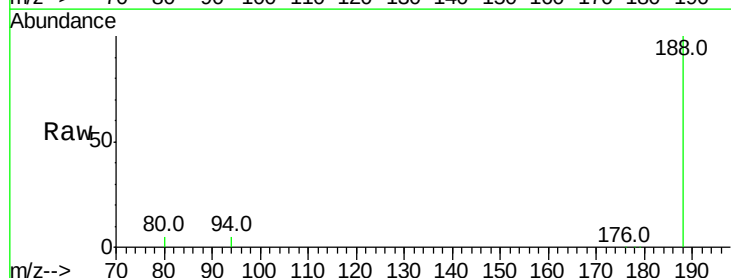
Tgt Ion:188 Resp: 259428

Ion Ratio Lower Upper

188 100

94 5.3 8.7 13.1#

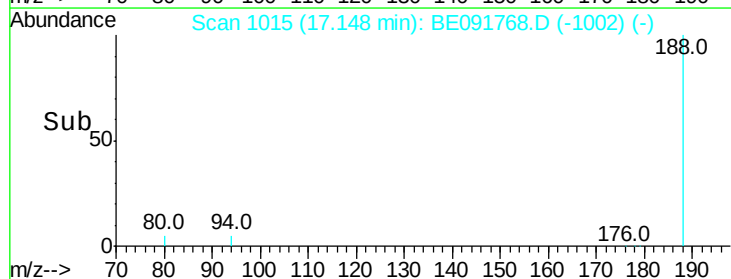
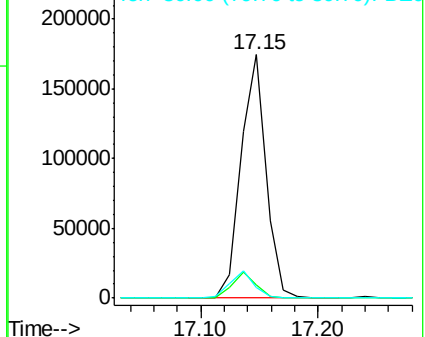
80 4.6 9.4 14.0#

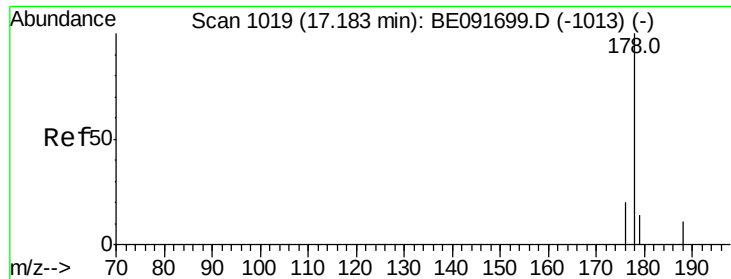


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#23

Phenanthrene

Concen: 19.29 ng

RT: 17.18 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

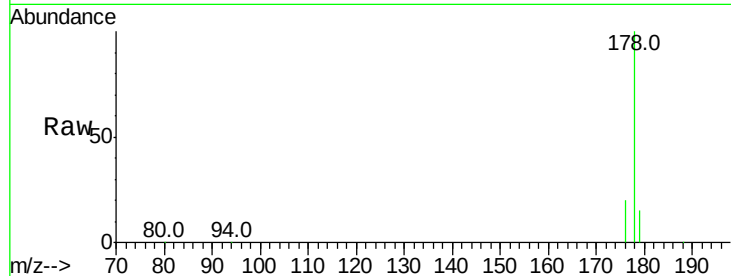
Tot Ion:178 Resp: 1137166

Ion Ratio Lower Upper

178 100

176 20.0 15.3 22.9

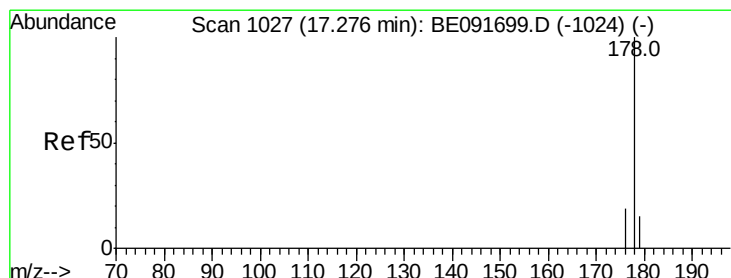
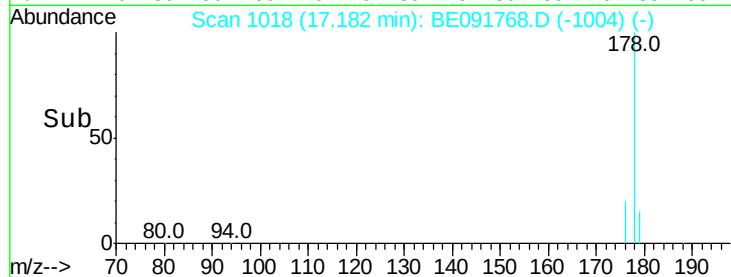
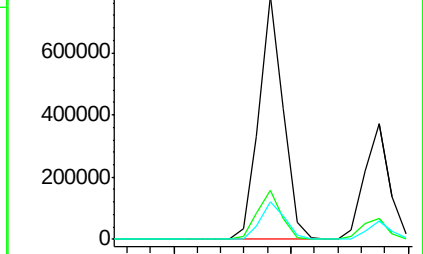
179 15.6 12.6 18.8



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



#24

Anthracene

Concen: 10.27 ng

RT: 17.27 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

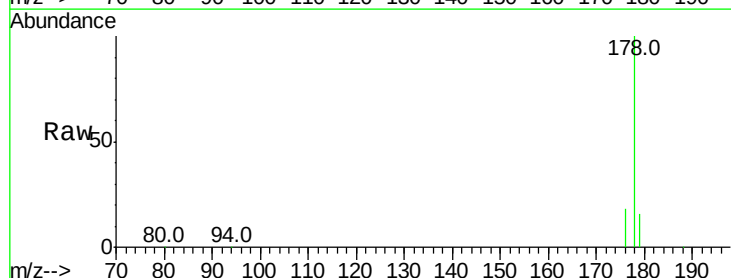
Tgt Ion:178 Resp: 546233

Ion Ratio Lower Upper

178 100

176 19.0 14.6 21.8

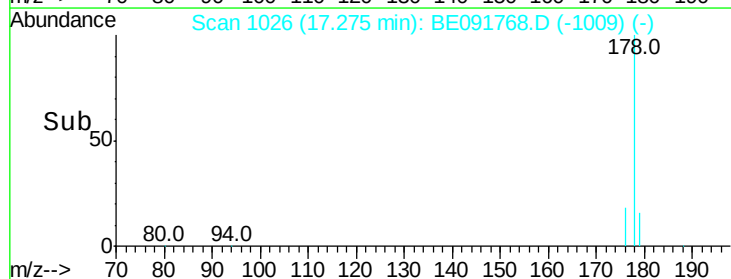
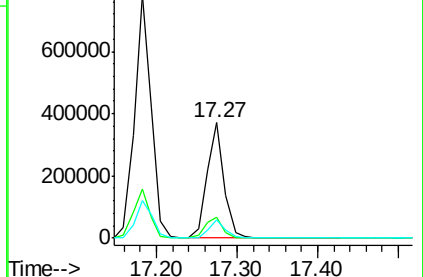
179 15.5 11.8 17.6

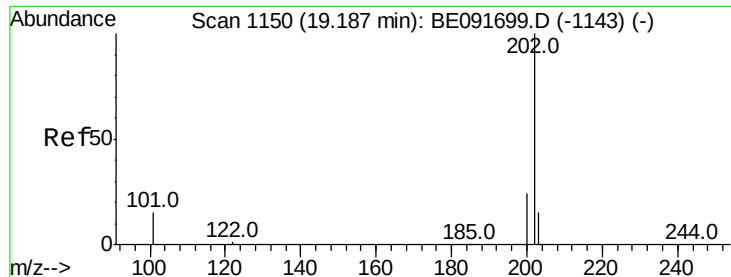


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene

Concen: 16.58 ng

RT: 19.19 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

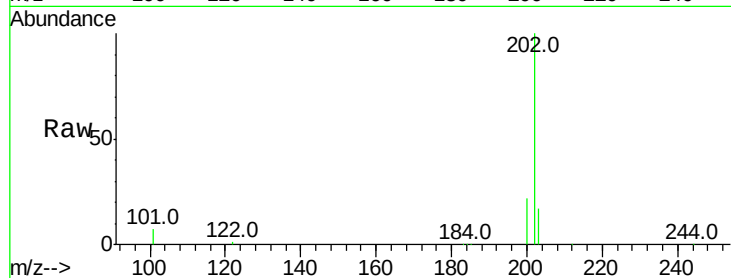
Tot Ion:202 Resp: 1021473

Ion Ratio Lower Upper

202 100

101 10.7 11.0 16.6#

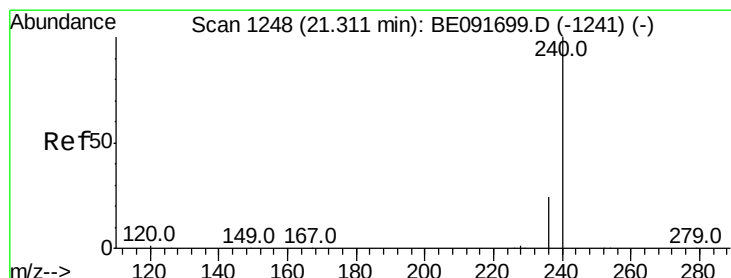
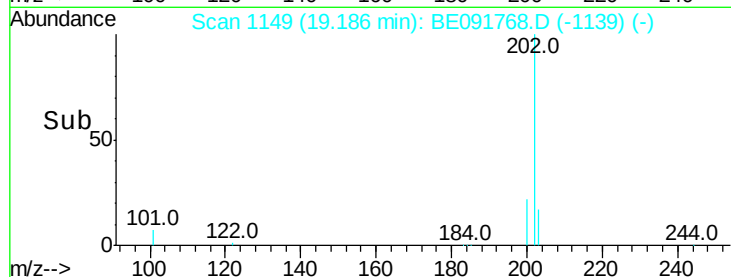
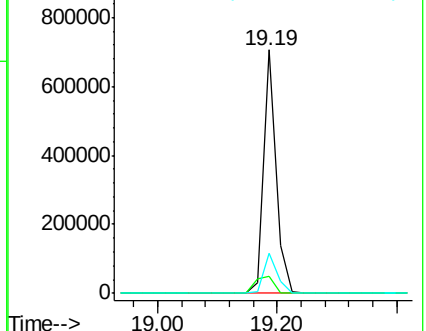
203 17.7 13.9 20.9



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.31 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

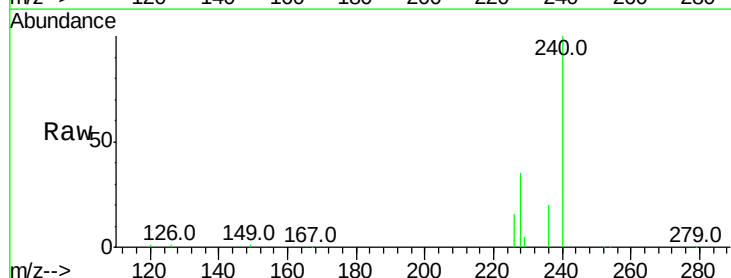
Tgt Ion:240 Resp: 246565

Ion Ratio Lower Upper

240 100

120 0.9 11.0 16.4#

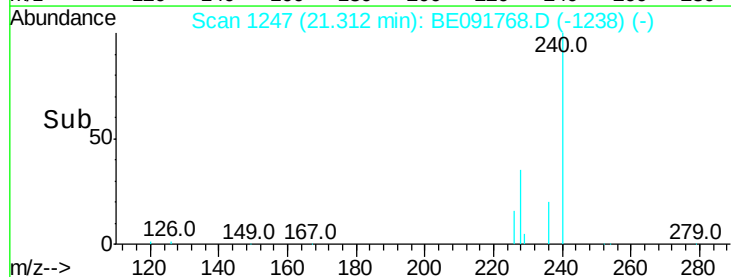
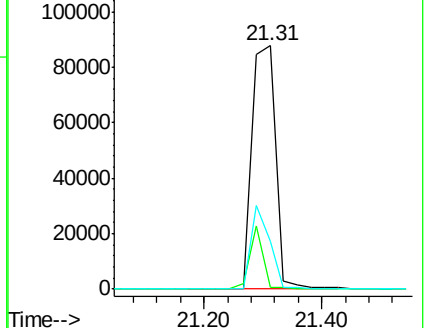
236 19.9 21.7 32.5#

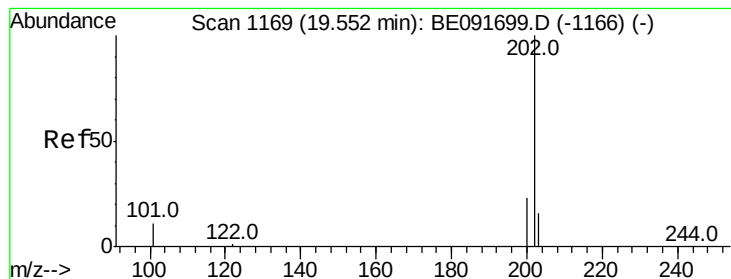


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 3.93 ng

RT: 19.55 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

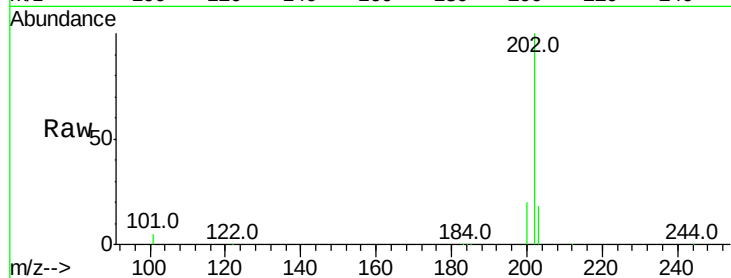
Tot Ion:202 Resp: 218792

Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

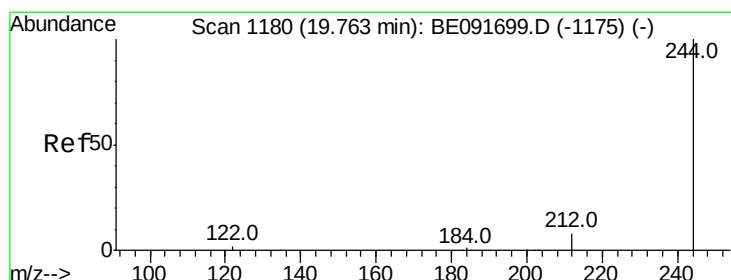
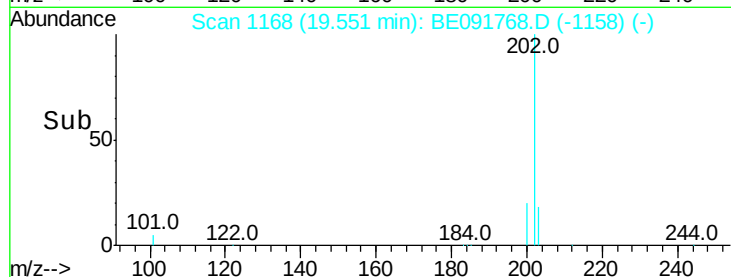
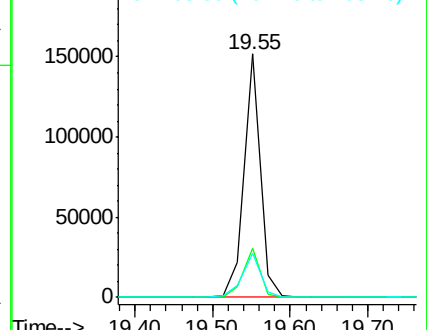
203 20.9 14.0 21.0



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



#29

Terphenyl-d14

Concen: 5.29 ng

RT: 19.76 min Scan# 1179

Delta R.T. -0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

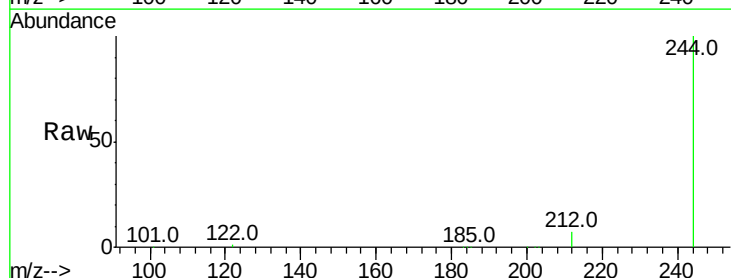
Tgt Ion:244 Resp: 203339

Ion Ratio Lower Upper

244 100

212 6.6 6.9 10.3#

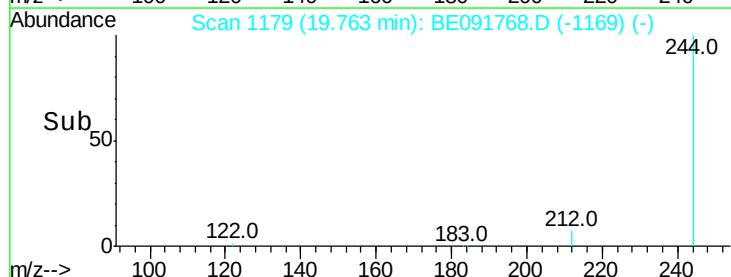
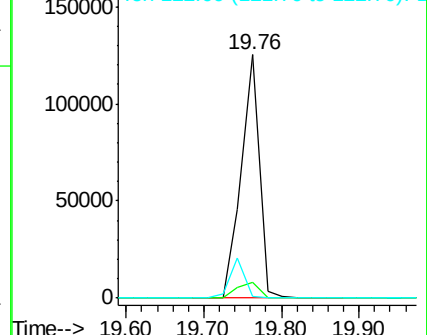
122 0.9 11.0 16.4#

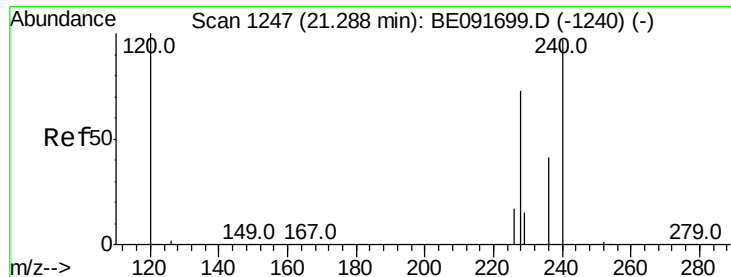


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 6.66 ng m

RT: 21.29 min Scan# 1246

Delta R.T. 0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

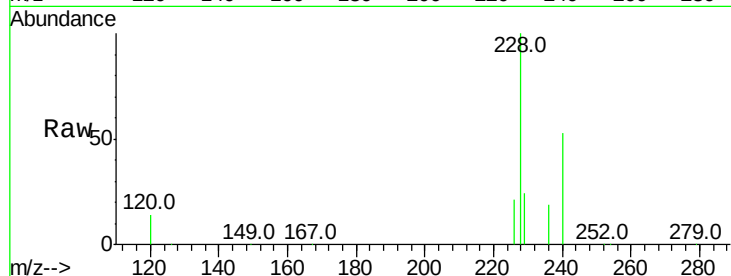
Tot Ion:228 Resp: 401308

Ion Ratio Lower Upper

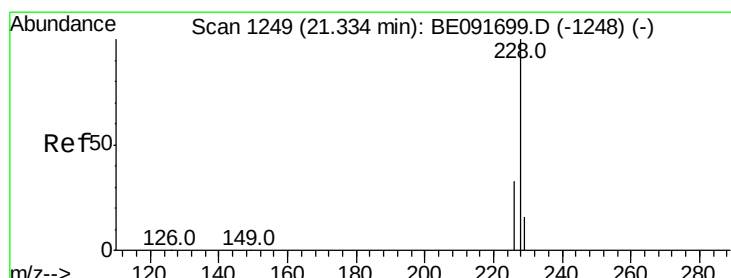
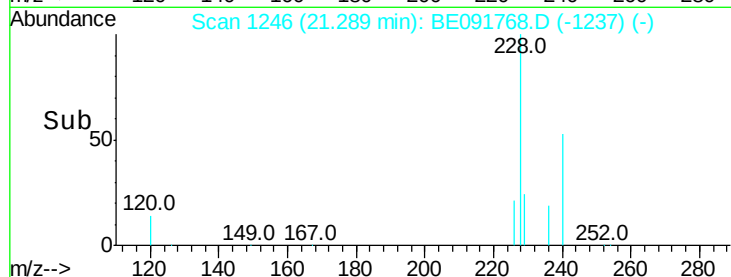
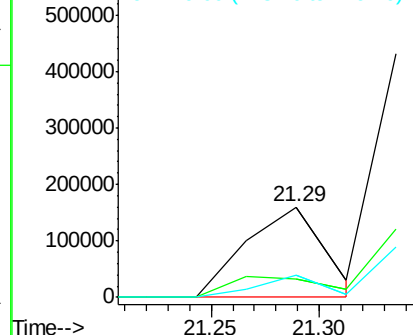
228 100

226 20.9 21.0 31.4#

229 24.5 15.7 23.5#



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



#32

Chrysene

Concen: 10.04 ng m

RT: 21.34 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

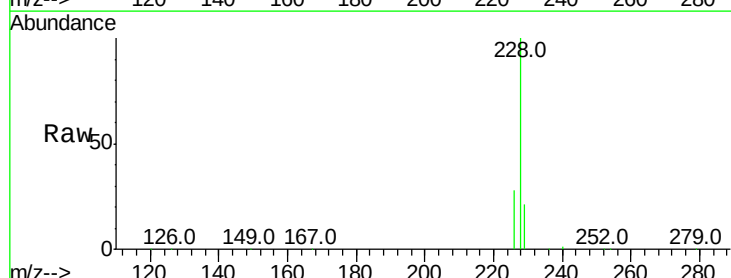
Tgt Ion:228 Resp: 628587

Ion Ratio Lower Upper

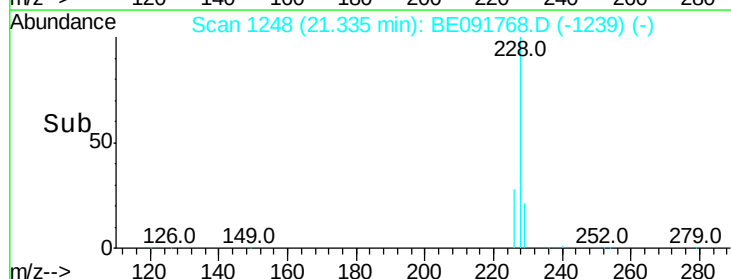
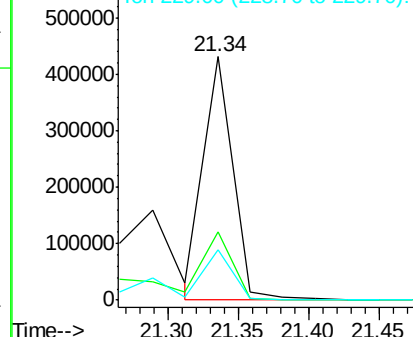
228 100

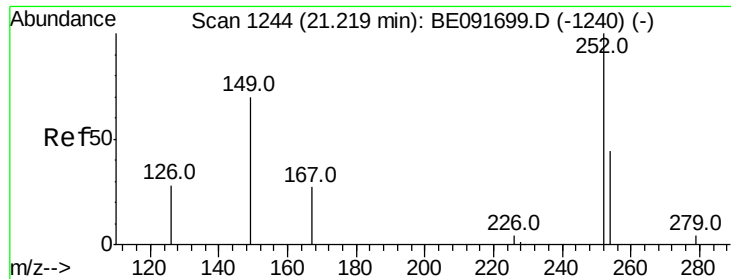
226 28.2 24.0 36.0

229 20.8 15.9 23.9



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

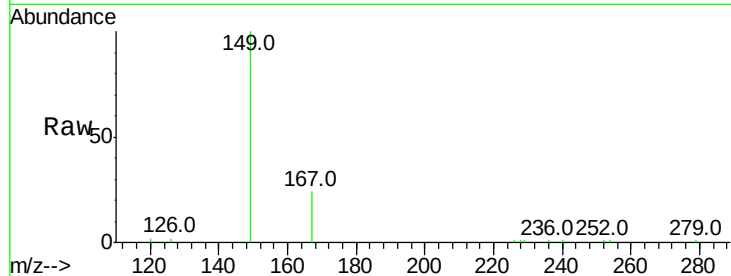




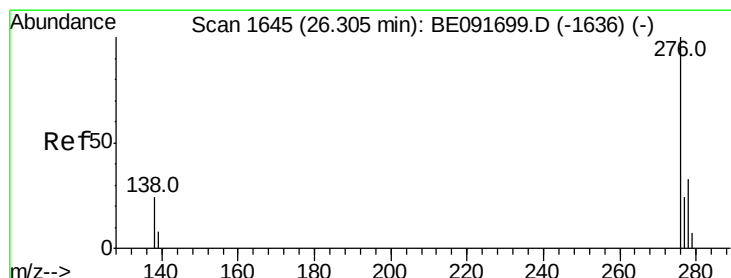
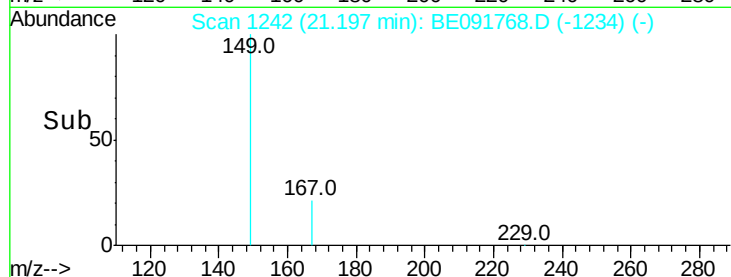
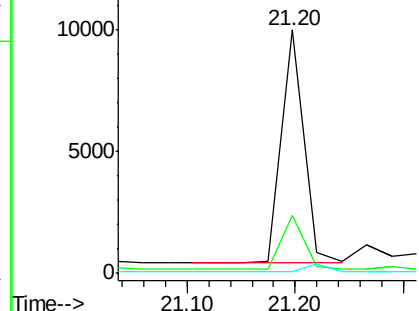
#33
 Bis(2-ethylhexyl)phthalate
 Concen: 0.76 ng
 RT: 21.20 min Scan# 1242
 Delta R.T. -0.02 min
 Lab File: BE091768.D
 Acq: 10 May 2016 22:22

Instrument :
 BNA_E
 ClientSampleId :
 PT-PAH-SOIL

Tot Ion:149 Resp: 13912
 Ion Ratio Lower Upper
 149 100
 167 23.6 19.5 29.3
 279 0.0 10.0 15.0#

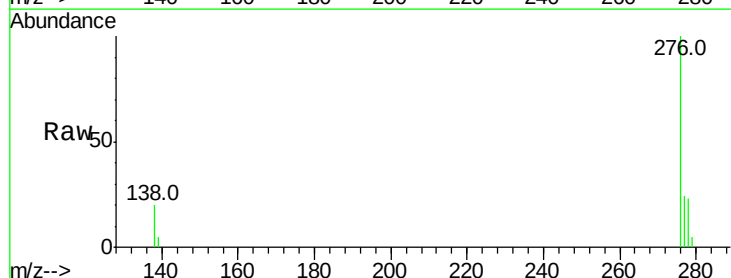


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

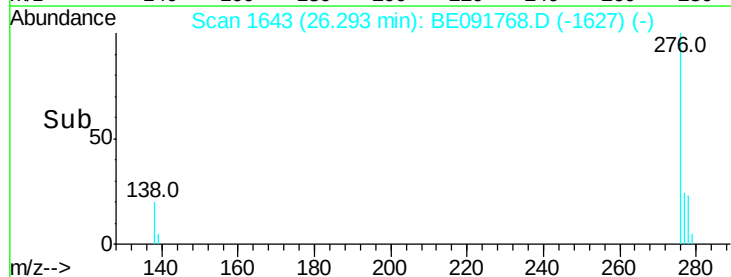
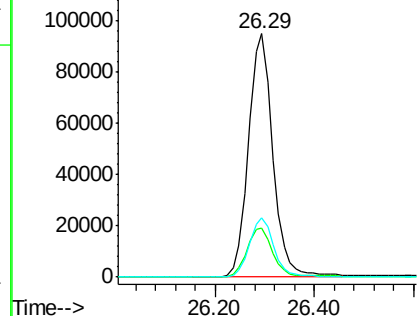


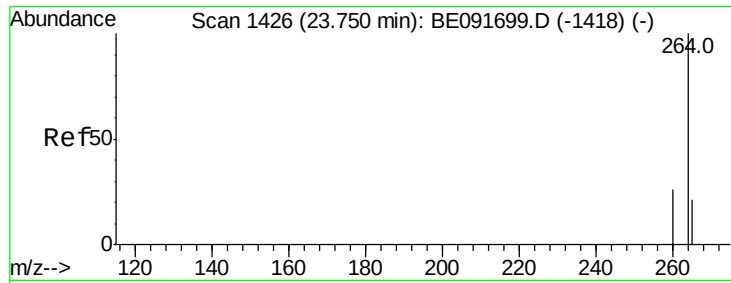
#34
 Indeno(1,2,3-cd)pyrene
 Concen: 5.84 ng
 RT: 26.29 min Scan# 1643
 Delta R.T. -0.01 min
 Lab File: BE091768.D
 Acq: 10 May 2016 22:22

Tgt Ion:276 Resp: 325544
 Ion Ratio Lower Upper
 276 100
 138 21.0 23.4 35.2#
 277 24.4 19.8 29.8



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



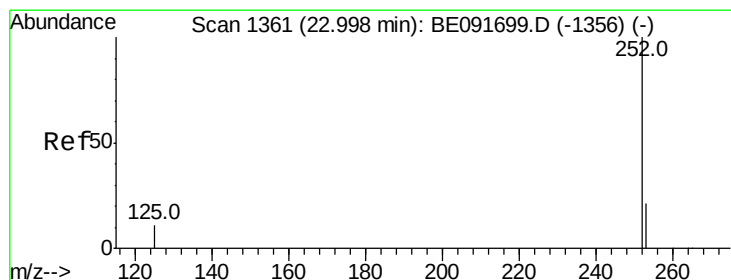
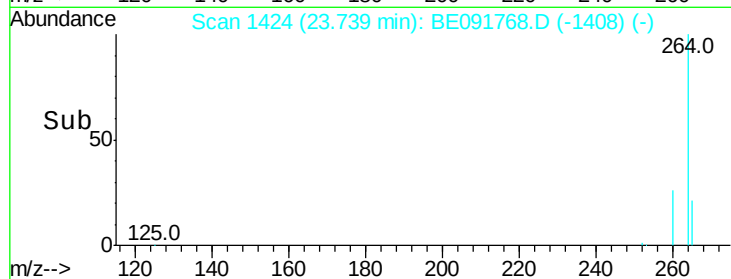
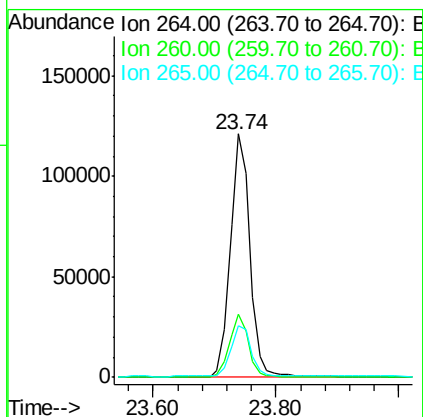
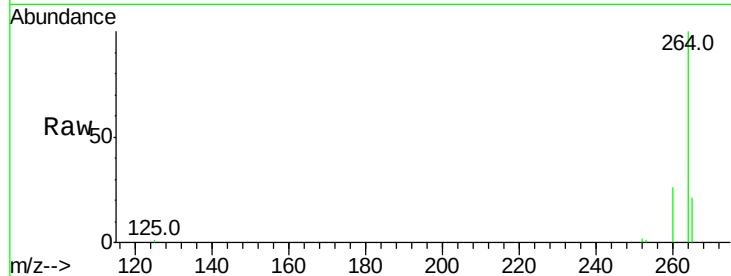


#35
Pervlene-d12
Concen: 5.00 ng
RT: 23.74 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BE091768.D
Acq: 10 May 2016 22:22

Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

Tot Ion:264 Resp: 269131

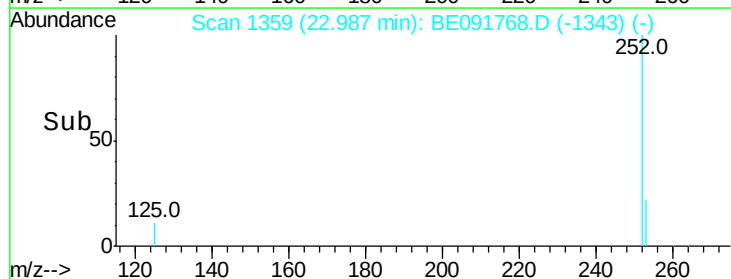
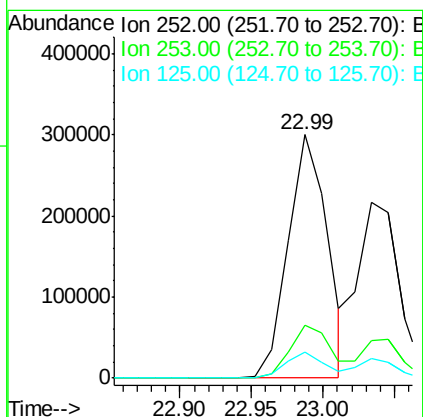
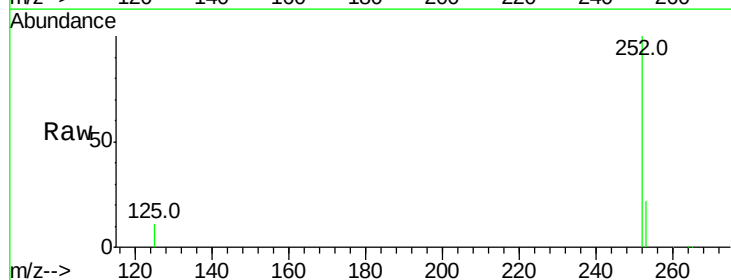
Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.0	30.0
265	21.4	17.5	26.3

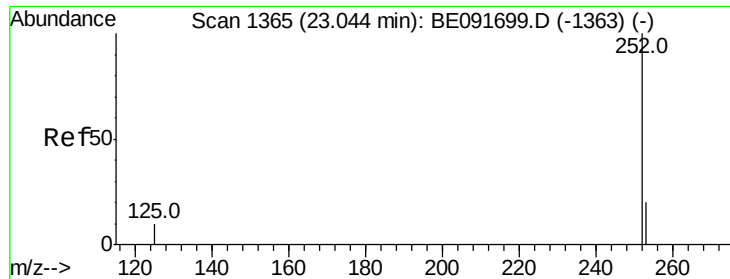


#36
Benzo(b)fluoranthene
Concen: 9.04 ng
RT: 22.99 min Scan# 1359
Delta R.T. -0.01 min
Lab File: BE091768.D
Acq: 10 May 2016 22:22

Tgt Ion:252 Resp: 570018

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.8	10.2	15.2

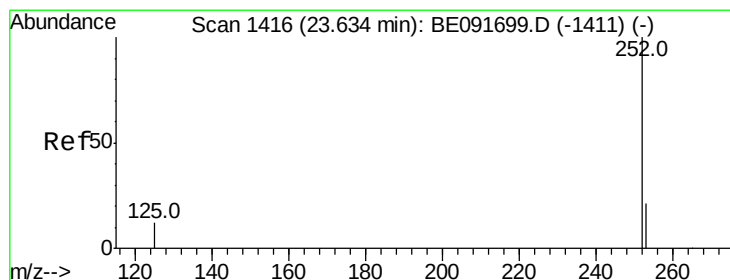
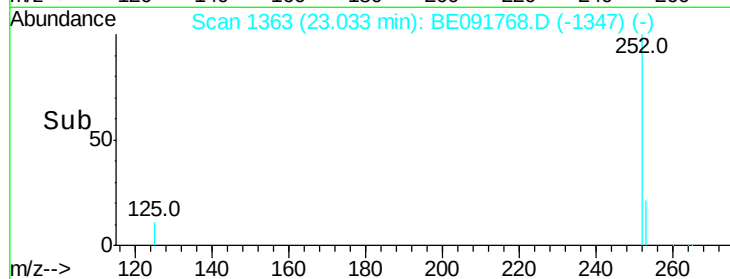
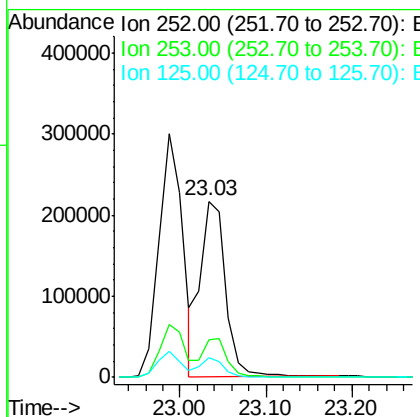
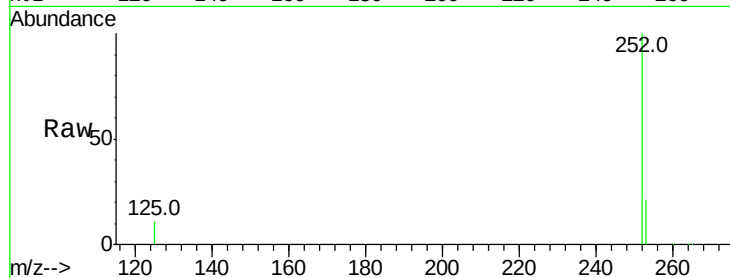




#37
Benzo(k)fluoranthene
Concen: 6.84 ng
RT: 23.03 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BE091768.D
Acq: 10 May 2016 22:22

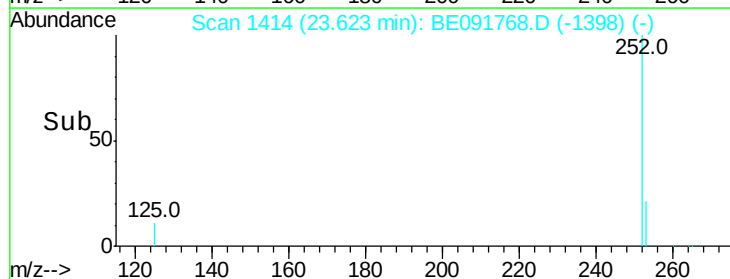
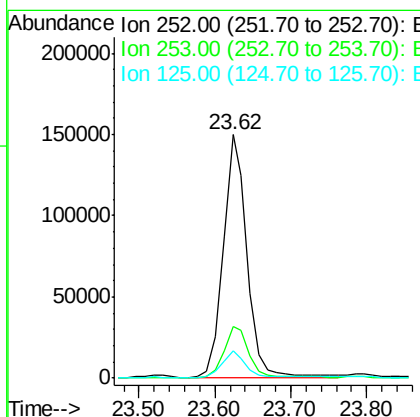
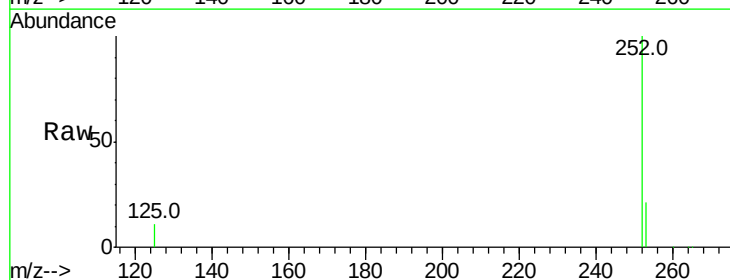
Instrument :
BNA_E
ClientSampleId :
PT-PAH-SOIL

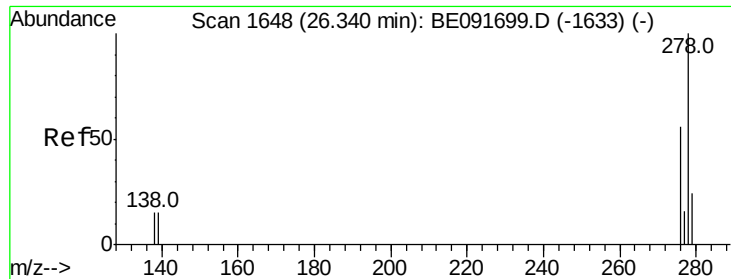
Tot Ion:252 Resp: 438525
Ion Ratio Lower Upper
252 100
253 21.1 17.6 26.4
125 10.9 9.9 14.9



#38
Benzo(a)pyrene
Concen: 5.52 ng
RT: 23.62 min Scan# 1414
Delta R.T. -0.01 min
Lab File: BE091768.D
Acq: 10 May 2016 22:22

Tgt Ion:252 Resp: 328031
Ion Ratio Lower Upper
252 100
253 21.3 18.1 27.1
125 11.0 11.0 16.4





#39

Dibenzo(a,h)anthracene

Concen: 2.25 ng

RT: 26.32 min Scan# 1645

Delta R.T. -0.02 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

Instrument :

BNA_E

ClientSampleId :

PT-PAH-SOIL

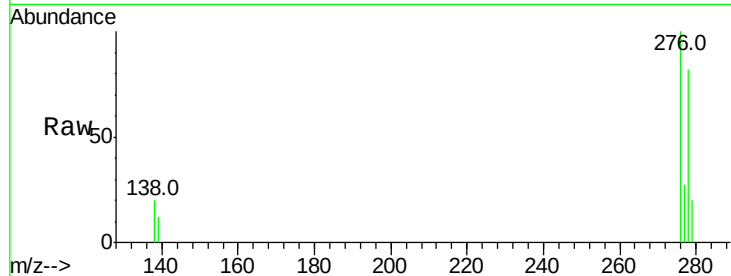
Tot Ion:278 Resp: 126342

Ion Ratio Lower Upper

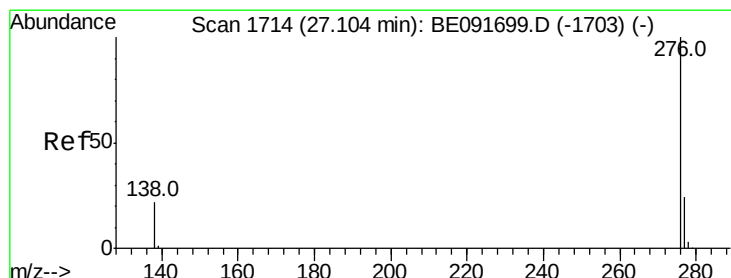
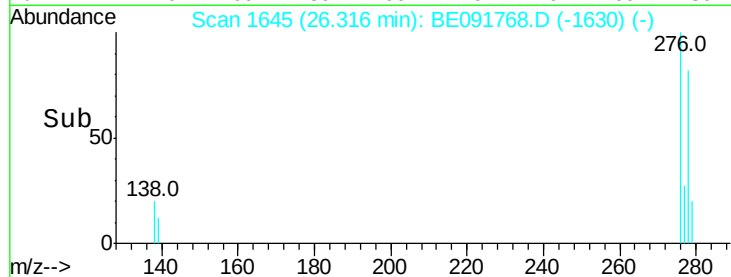
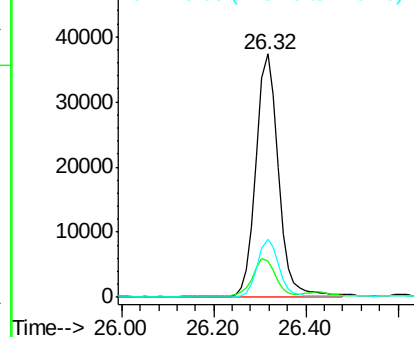
278 100

139 14.7 16.0 24.0#

279 24.0 19.4 29.2



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#40

Benzo(g,h,i)perylene

Concen: 6.69 ng

RT: 27.08 min Scan# 1711

Delta R.T. -0.02 min

Lab File: BE091768.D

Acq: 10 May 2016 22:22

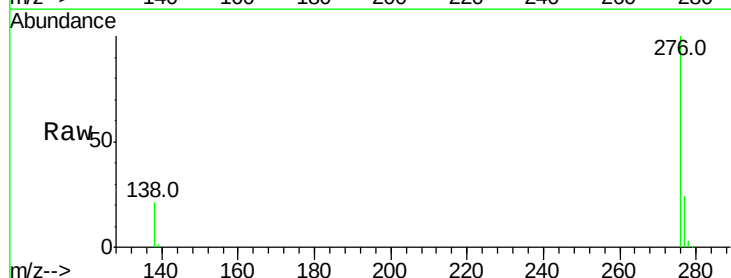
Tgt Ion:276 Resp: 382301

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 20.7 20.4 30.6



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

