

Data Path : S:\HPCHEM1\BNA_E\DATA\BE050517\
 Data File : BE092931.D
 Acq On : 5 May 2017 15:39
 Operator : SJ/MA
 Sample : I2872-15
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOIL

Quant Time: May 05 16:17:09 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE050517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 05 14:05:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	1454	0.40	ng	0.00
7) Naphthalene-d8	10.53	136	3703	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	1815	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	4491	0.40	ng	0.00
26) Chrysene-d12	21.28	240	4760	0.40	ng	0.00
33) Perylene-d12	23.70	264	4392	0.40	ng	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	319839	98.51	ng	0.00
5) Phenol-d6	6.94	99	468044	102.46	ng	0.00
8) Nitrobenzene-d5	8.92	82	278199	111.55	ng	0.02
11) 2-Methylnaphthalene-d10	12.13	152	11	0.00	ng	0.00
14) 2,4,6-Tribromophenol	15.88	330	76431	268.96	ng	0.01
15) 2-Fluorobiphenyl	13.02	172	558004	66.87	ng	0.01
24) Fluoranthene-d10	0.00	212	0	0.00	ng	
28) Terphenyl-d14	19.76	244	610345	73.33	ng	0.02

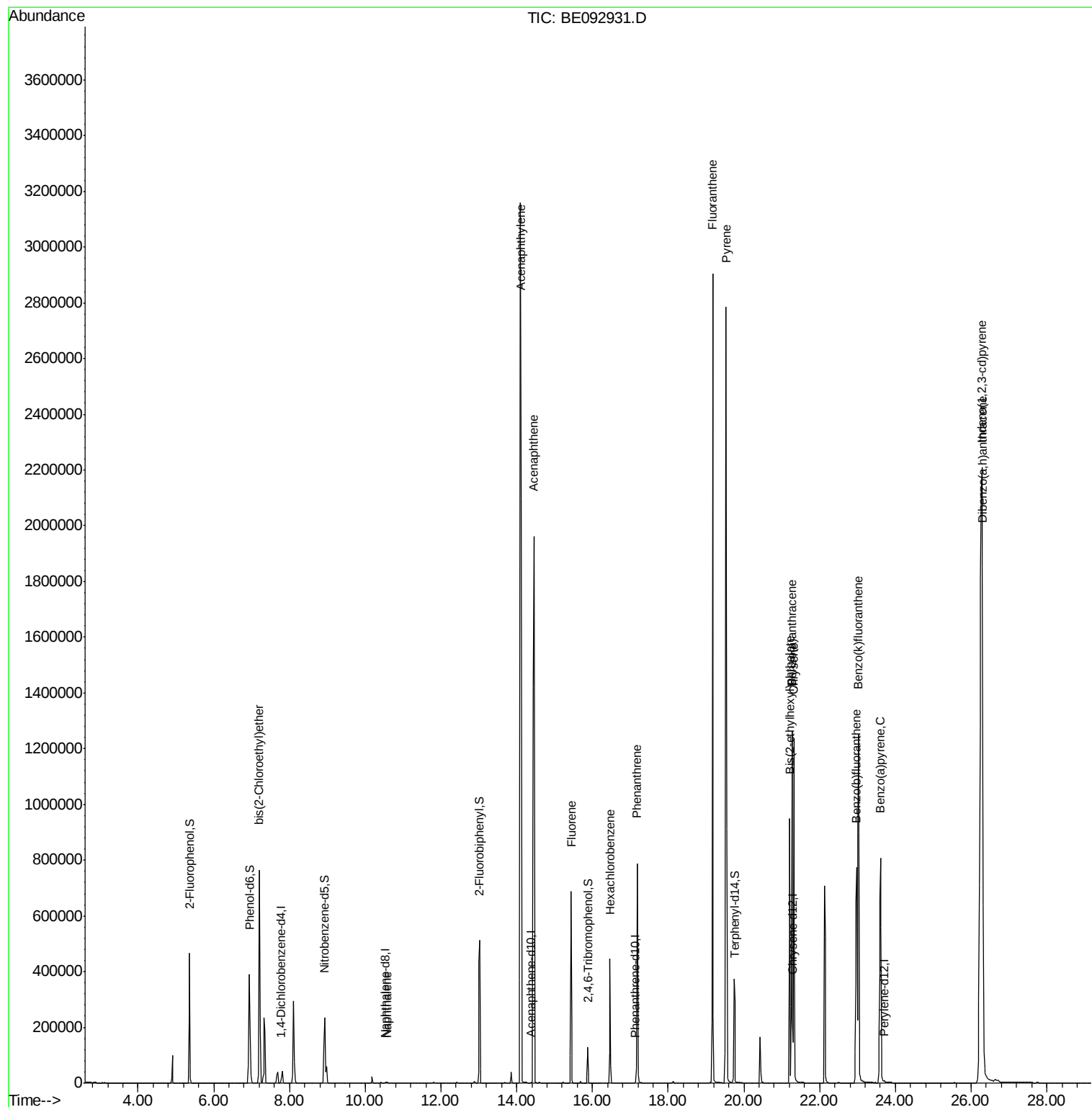
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.20	93	601181	112.44	ng	# 86
9) Naphthalene	10.58	128	4720	0.48	ng	# 86
16) Acenaphthylene	14.10	152	4885798	170.29	ng	97
17) Acenaphthene	14.45	154	456672	79.70	ng	96
18) Fluorene	15.44	166	498981	70.49	ng	98
20) Hexachlorobenzene	16.47	284	391010	204.11	ng	# 100
22) Phenanthrene	17.18	178	889490	70.36	ng	95
25) Fluoranthene	19.17	202	3497325	64.05	ng	# 96
27) Pyrene	19.53	202	3879743	63.20	ng	# 96
29) Benzo(a)anthracene	21.27	228	1304509	116.66	ng	# 85
30) Chrysene	21.32	228	1276895	89.85	ng	# 89
31) Bis(2-ethylhexyl)phthalate	21.21	149	1224968	401.27	ng	# 100
32) Indeno(1,2,3-cd)pyrene	26.27	276	5724008	111.60	ng	95
34) Benzo(b)fluoranthene	22.97	252	1292379	89.93	ng	# 82
35) Benzo(k)fluoranthene	23.03	252	2003693	139.60	ng	# 79
36) Benzo(a)pyrene	23.61	252	1390999	118.47	ng	# 72
37) Dibenzo(a,h)anthracene	26.30	278	1438154	108.73	ng	# 74

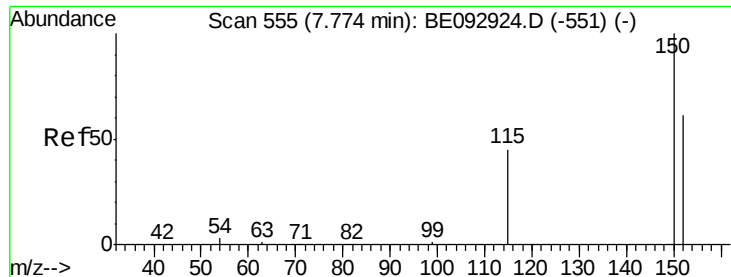
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.77 min Scan# 555

Delta R.T. -0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampled :

PT-BNA-SOIL

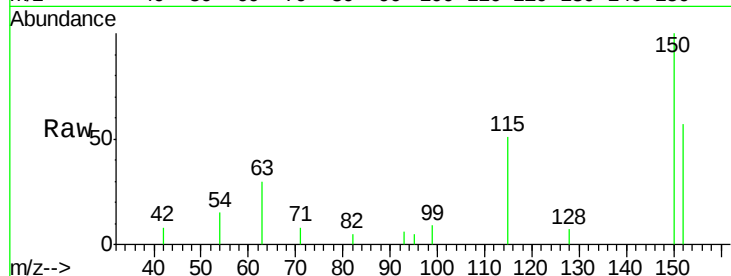
Tgt Ion:152 Resp: 1454

Ion Ratio Lower Upper

152 100

150 176.8 129.9 194.9

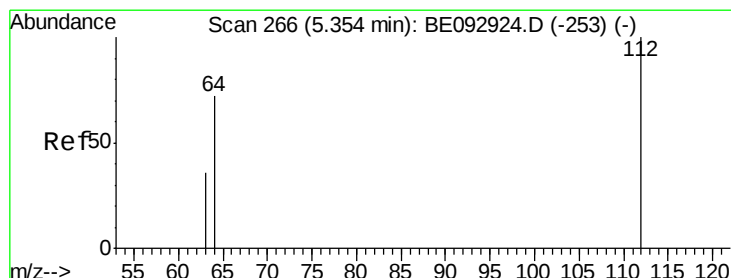
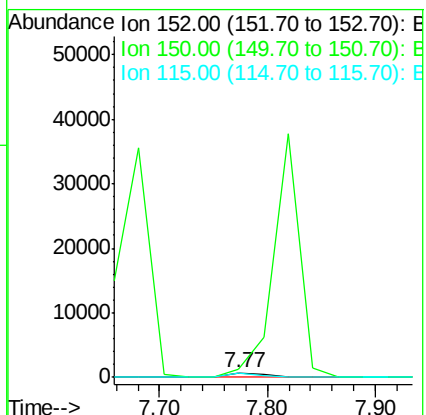
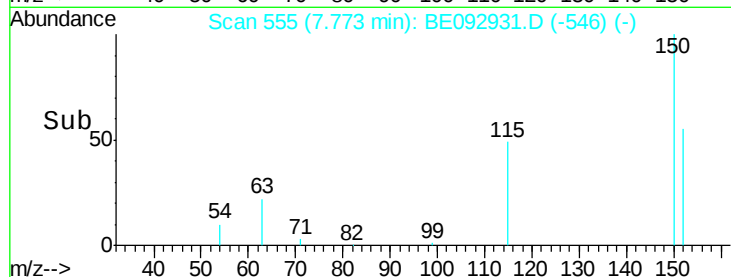
115 90.7 62.6 93.8



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: 98.51 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.01 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

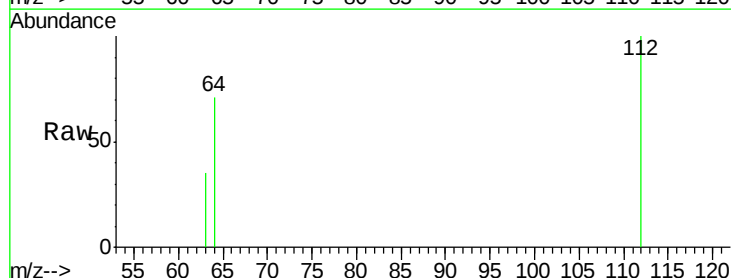
Tgt Ion:112 Resp: 319839

Ion Ratio Lower Upper

112 100

64 71.2 52.6 79.0

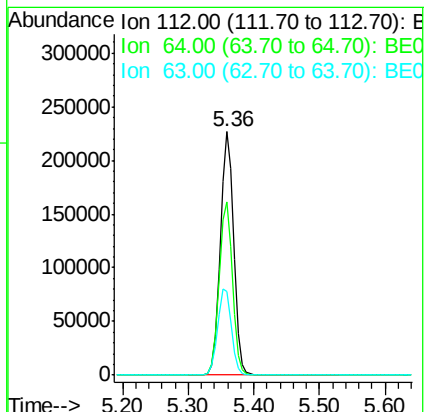
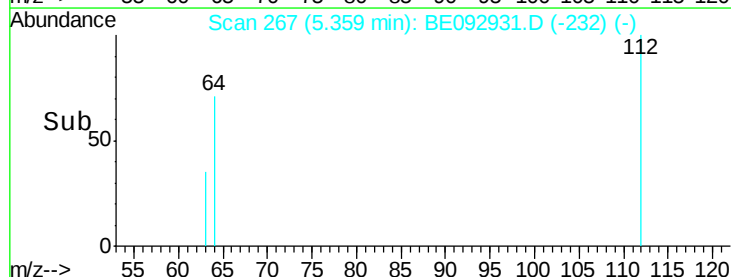
63 36.5 29.0 43.4

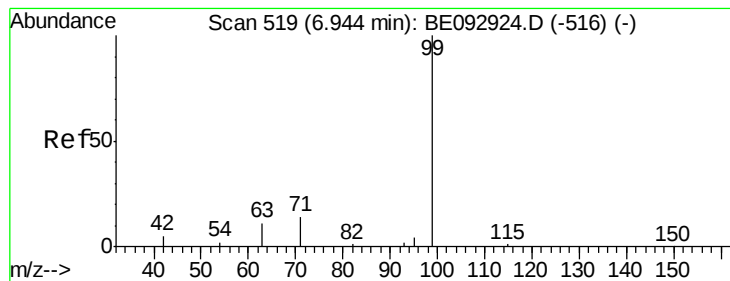


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 102.46 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

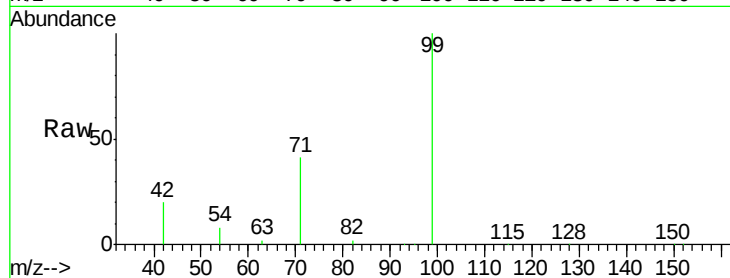
Tgt Ion: 99 Resp: 468044

Ion Ratio Lower Upper

99 100

42 22.5 0.0 0.0#

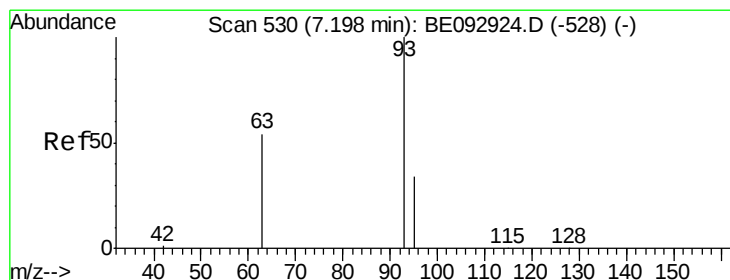
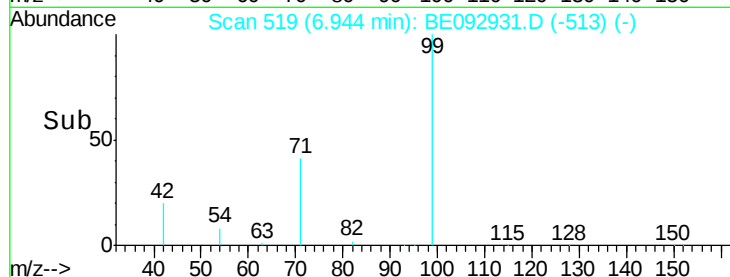
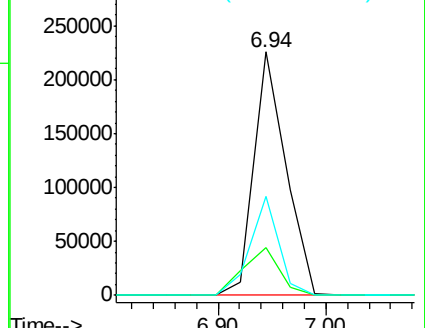
71 36.2 0.0 0.0#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 112.44 ng

RT: 7.20 min Scan# 530

Delta R.T. -0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

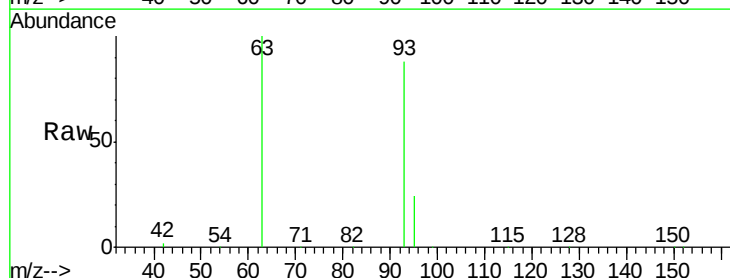
Tgt Ion: 93 Resp: 601181

Ion Ratio Lower Upper

93 100

63 92.7 61.2 91.8#

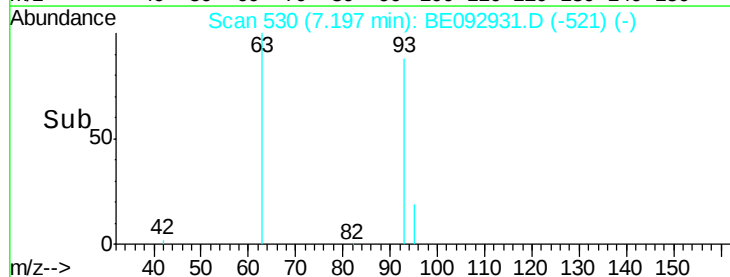
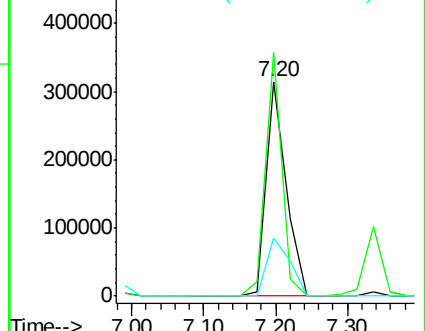
95 31.3 25.5 38.3

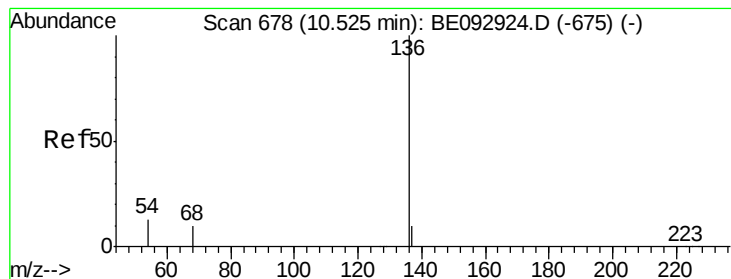


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.53 min Scan# 678

Delta R.T. 0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

Tgt Ion: 136 Resp: 3703

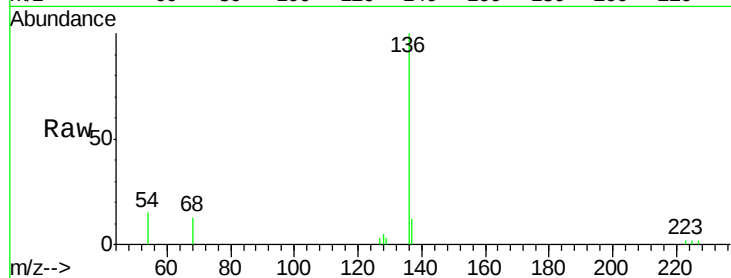
Ion Ratio Lower Upper

136 100

137 12.2 10.4 15.6

54 15.4 12.6 18.8

68 13.2 10.7 16.1

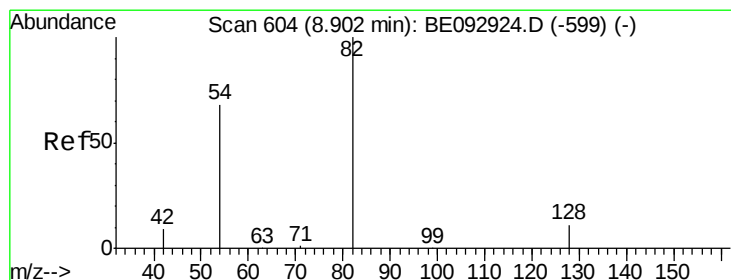
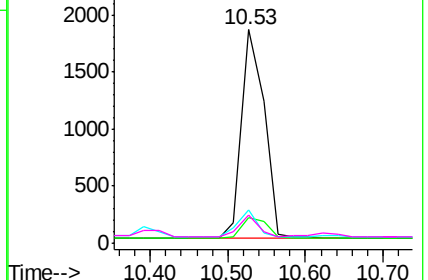
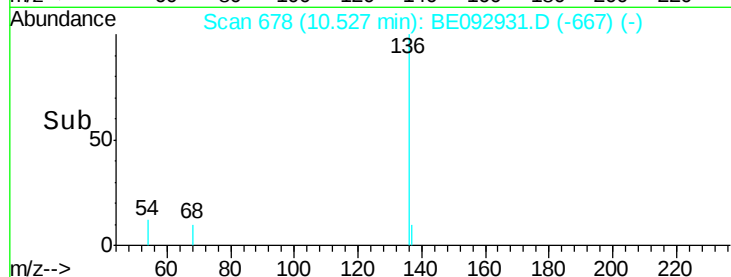


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 111.55 ng

RT: 8.92 min Scan# 605

Delta R.T. 0.02 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

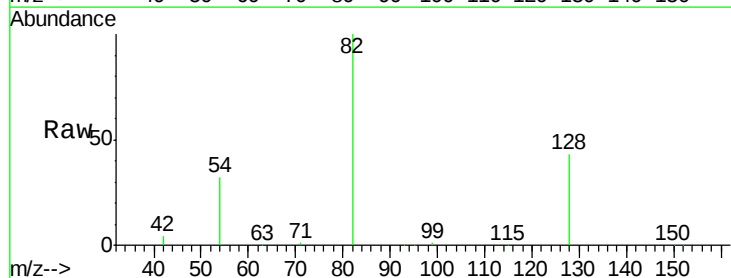
Tgt Ion: 82 Resp: 278199

Ion Ratio Lower Upper

82 100

128 43.5 35.3 52.9

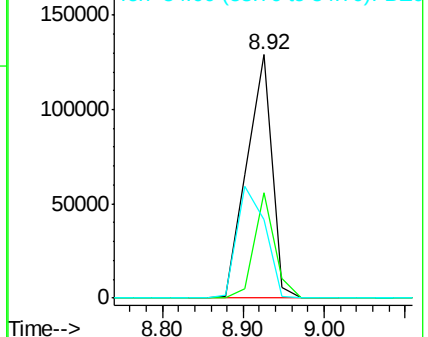
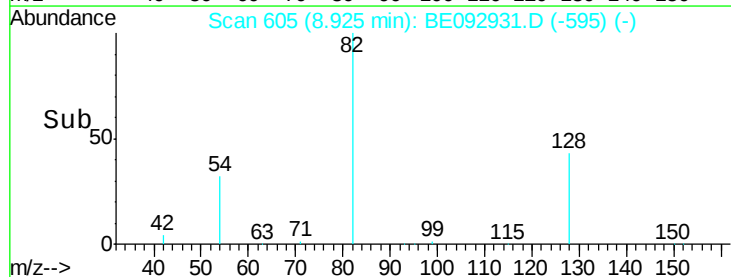
54 32.5 65.1 97.7#

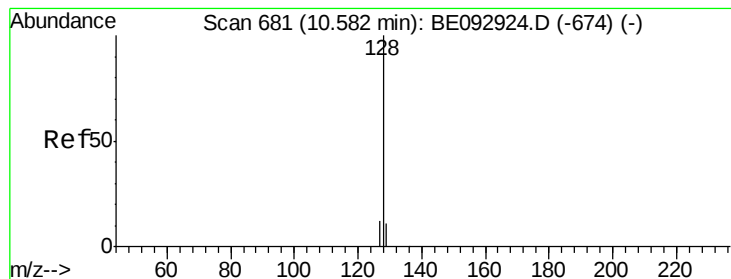


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.48 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

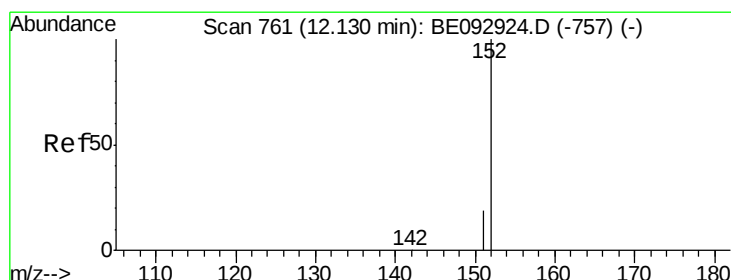
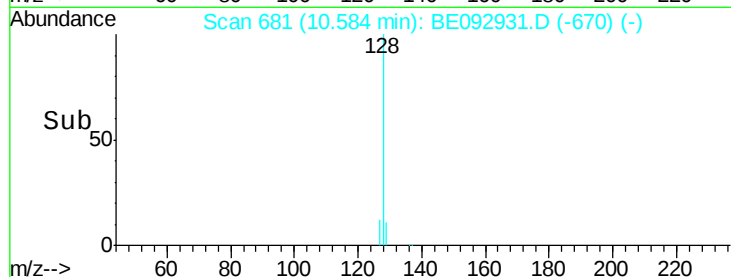
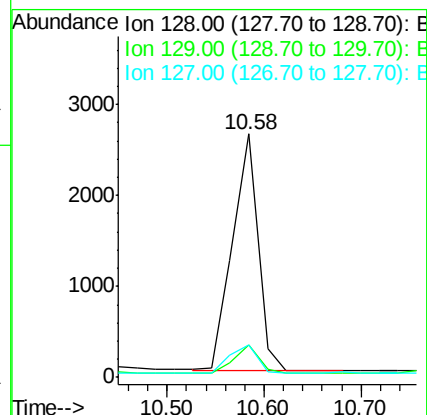
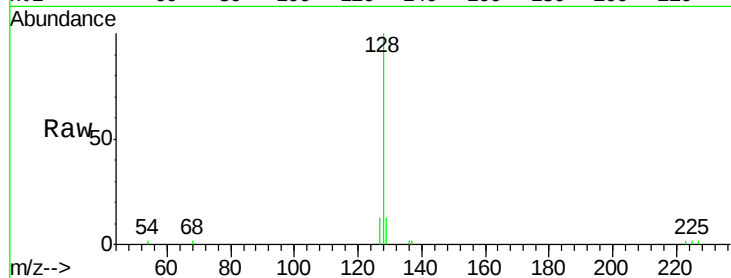
Tgt Ion:128 Resp: 4720

Ion Ratio Lower Upper

128 100

129 13.3 15.8 23.8#

127 13.4 16.0 24.0#



#11

2-Methylnaphthalene-d10

Concen: 0.00 ng

RT: 12.13 min Scan# 761

Delta R.T. -0.00 min

Lab File: BE092931.D

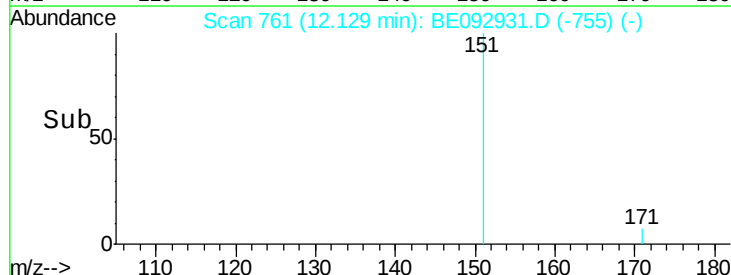
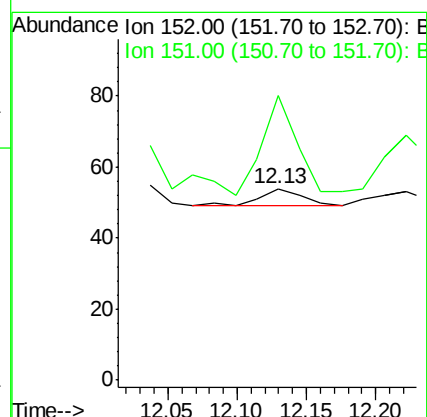
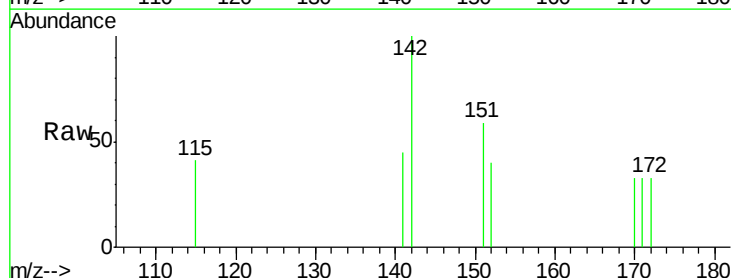
Acq: 5 May 2017 15:39

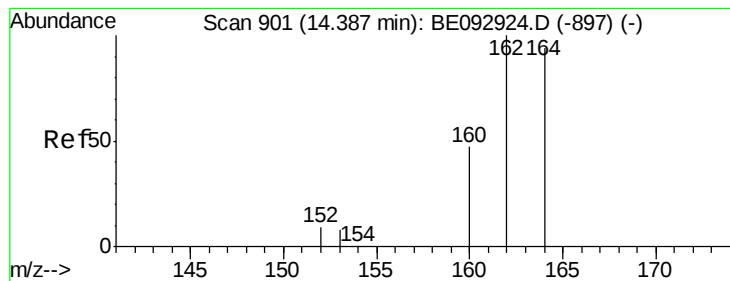
Tgt Ion:152 Resp: 11

Ion Ratio Lower Upper

152 100

151 436.4 15.7 23.5#





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 14.39 min Scan# 901

Delta R.T. -0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

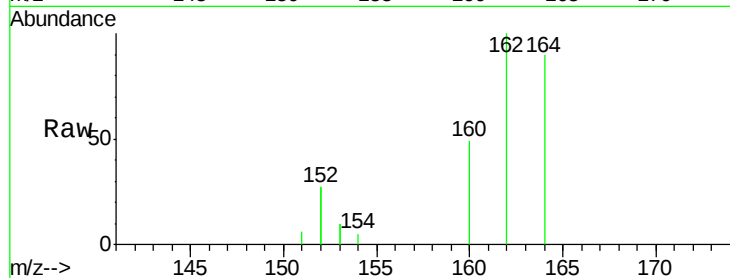
Tgt Ion:164 Resp: 1815

Ion Ratio Lower Upper

164 100

162 110.8 86.6 130.0

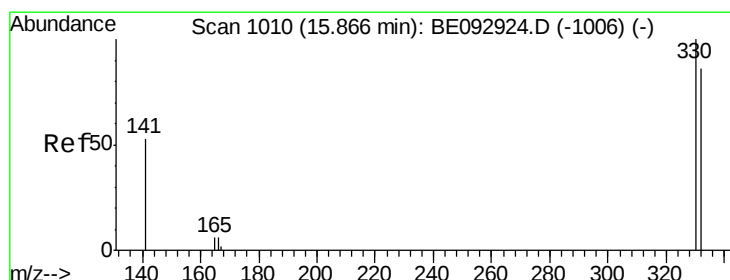
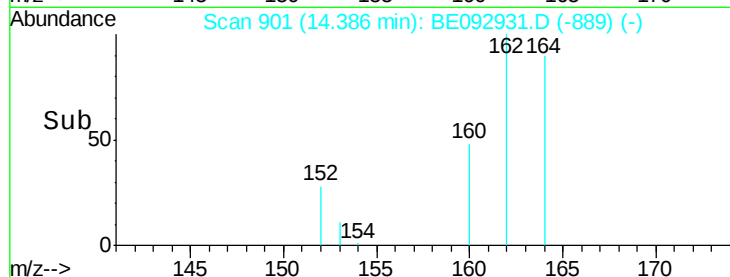
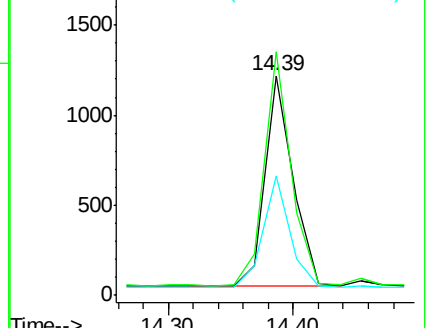
160 54.6 44.5 66.7



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



#14

2,4,6-Tribromophenol

Concen: 268.96 ng

RT: 15.88 min Scan# 1011

Delta R.T. 0.01 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

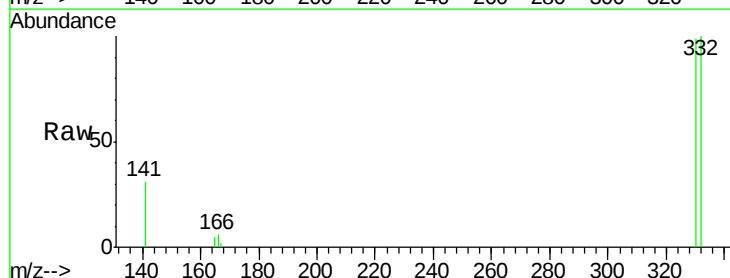
Tgt Ion:330 Resp: 76431

Ion Ratio Lower Upper

330 100

332 97.0 69.1 103.7

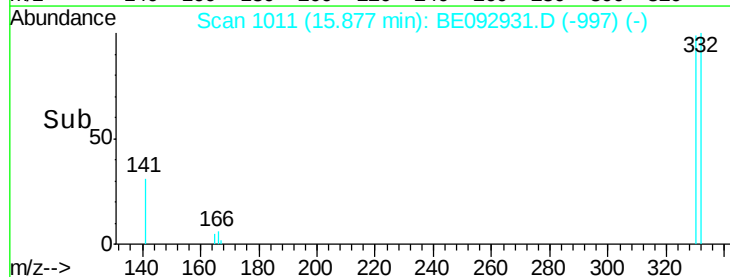
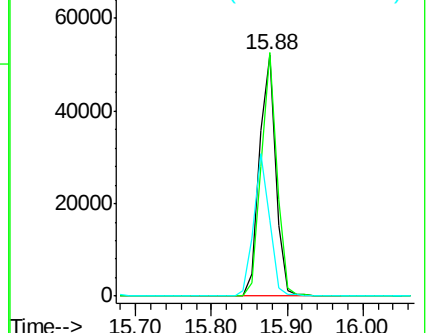
141 57.4 54.6 81.8

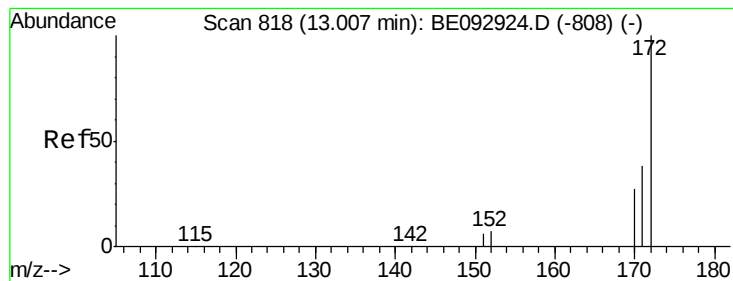


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 66.87 ng

RT: 13.02 min Scan# 819

Delta R.T. 0.01 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

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PT-BNA-SOIL

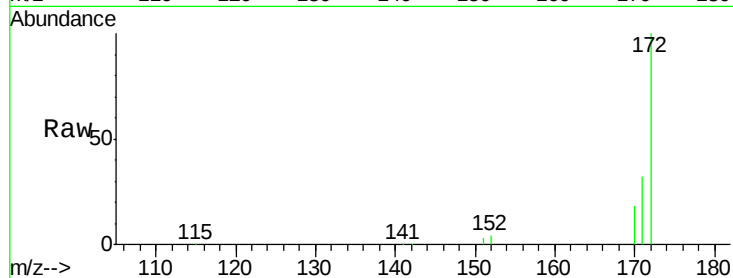
Tgt Ion:172 Resp: 558004

Ion Ratio Lower Upper

172 100

171 31.5 35.8 53.6#

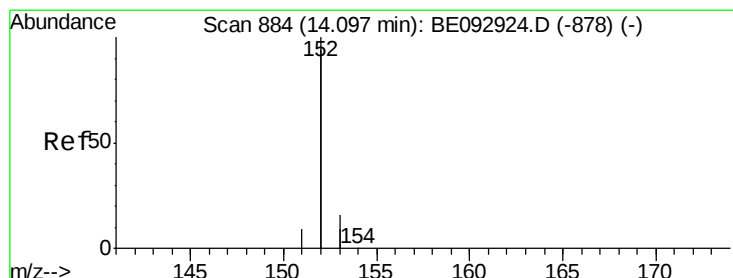
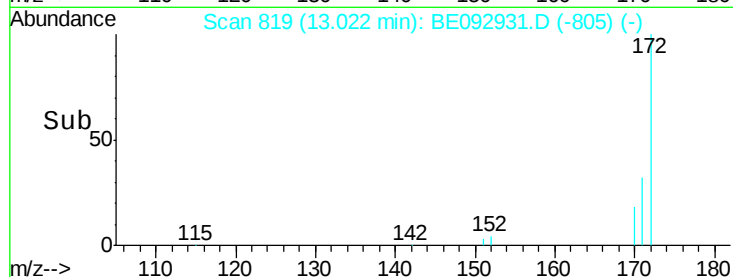
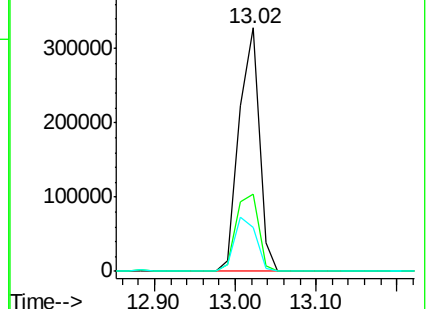
170 18.2 28.5 42.7#



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



#16

Acenaphthylene

Concen: 170.29 ng

RT: 14.10 min Scan# 884

Delta R.T. -0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

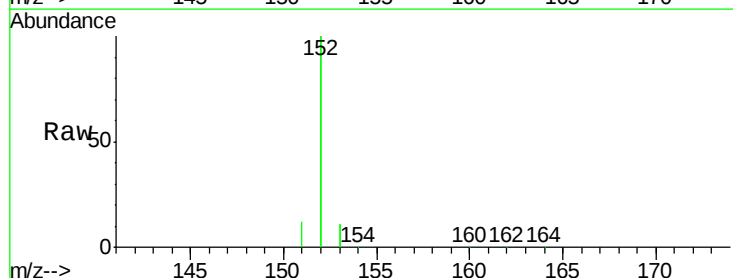
Tgt Ion:152 Resp: 4885798

Ion Ratio Lower Upper

152 100

151 5.1 3.8 5.8

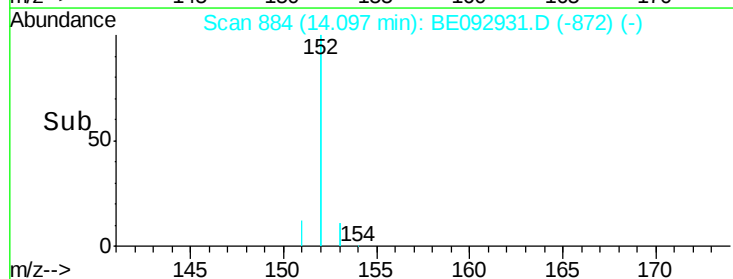
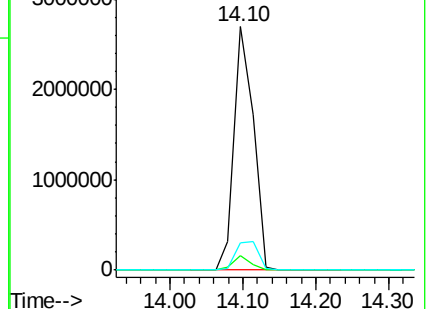
153 13.8 10.0 15.0

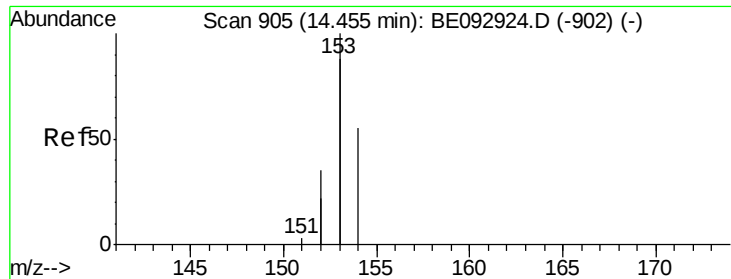


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

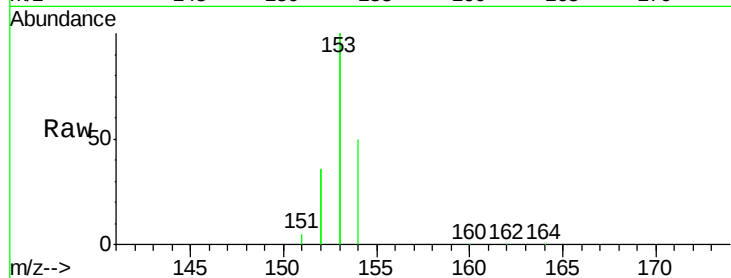




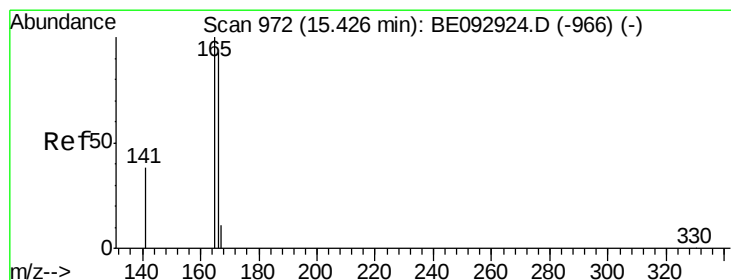
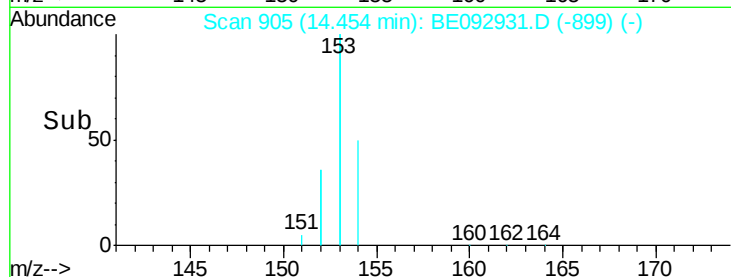
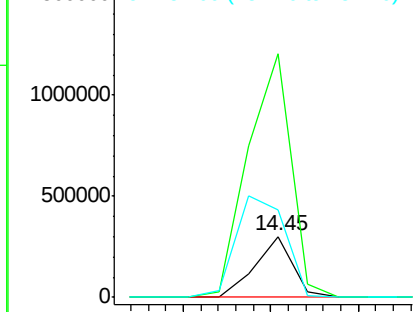
#17
Acenaphthene
Concen: 79.70 ng
RT: 14.45 min Scan# 905
Delta R.T. -0.00 min
Lab File: BE092931.D
Acq: 5 May 2017 15:39

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOIL

Tgt Ion:154 Resp: 456672
Ion Ratio Lower Upper
154 100
153 457.1 355.6 533.4
152 219.2 177.8 266.8

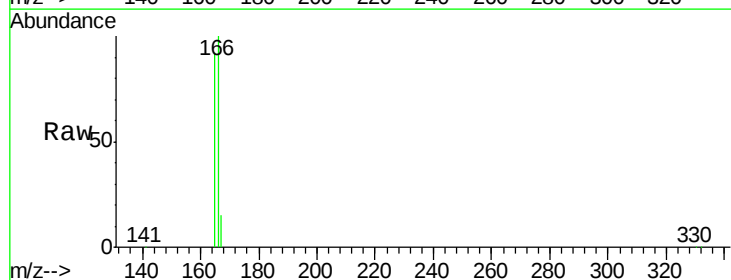


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

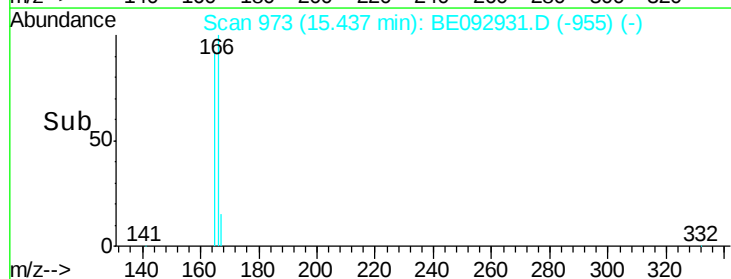
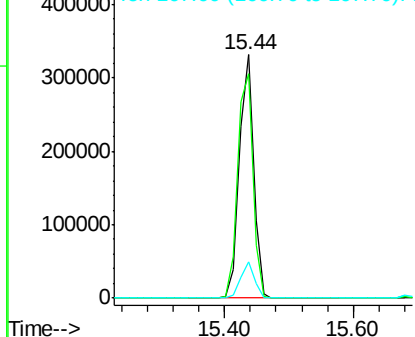


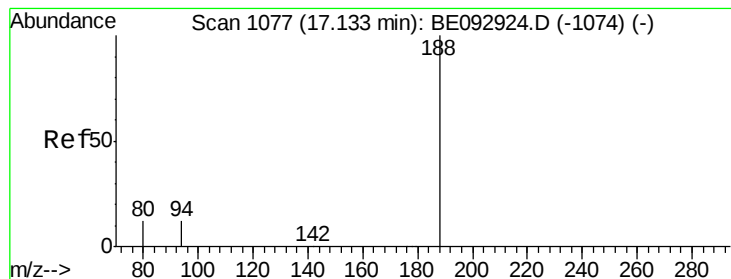
#18
Fluorene
Concen: 70.49 ng
RT: 15.44 min Scan# 973
Delta R.T. 0.01 min
Lab File: BE092931.D
Acq: 5 May 2017 15:39

Tgt Ion:166 Resp: 498981
Ion Ratio Lower Upper
166 100
165 98.9 80.7 121.1
167 14.3 11.3 16.9



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: 0.40 ng

RT: 17.13 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

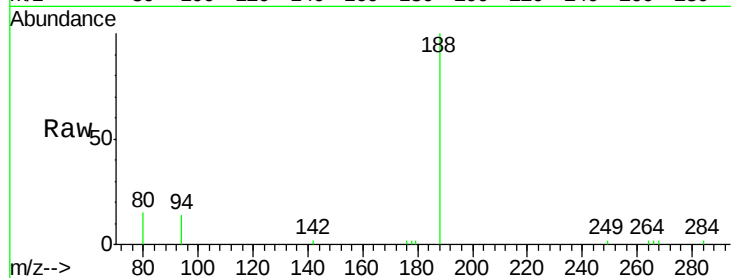
Tgt Ion:188 Resp: 4491

Ion Ratio Lower Upper

188 100

94 14.3 10.2 15.4

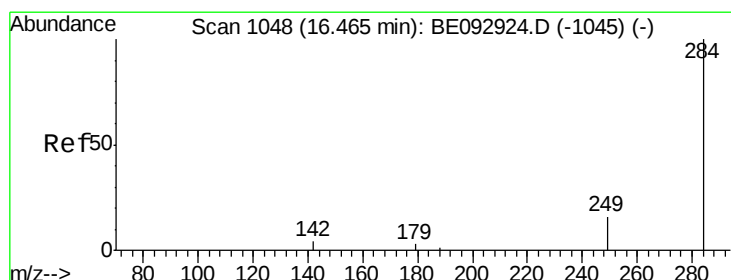
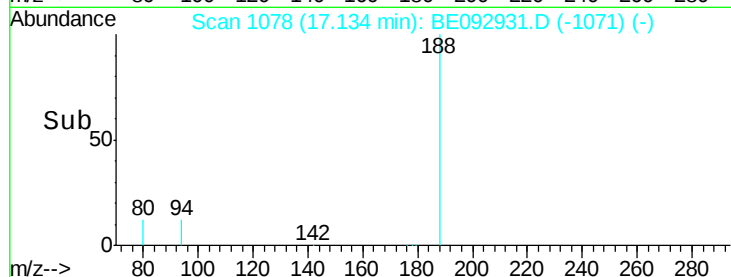
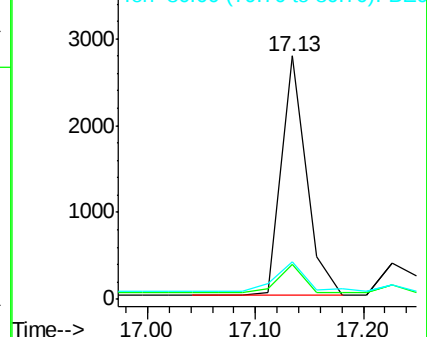
80 15.2 10.6 15.8



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



#20

Hexachlorobenzene

Concen: 204.11 ng

RT: 16.47 min Scan# 1049

Delta R.T. 0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

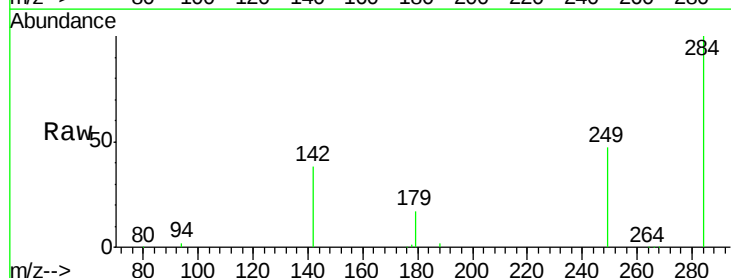
Tgt Ion:284 Resp: 391010

Ion Ratio Lower Upper

284 100

142 53.0 0.0 0.0#

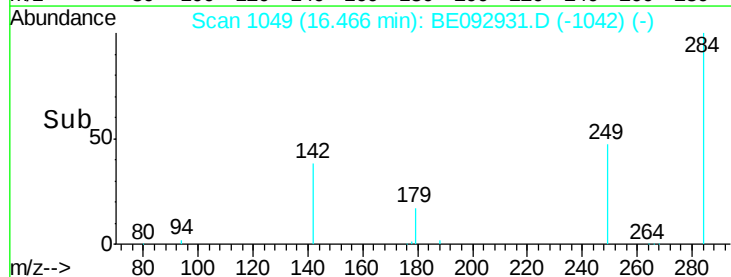
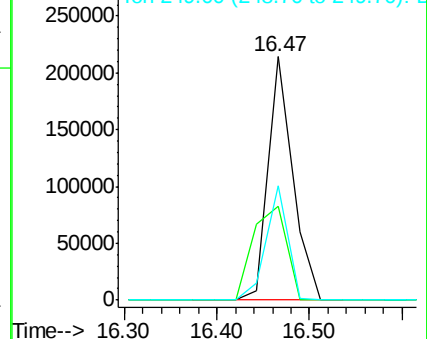
249 41.6 0.0 0.0#

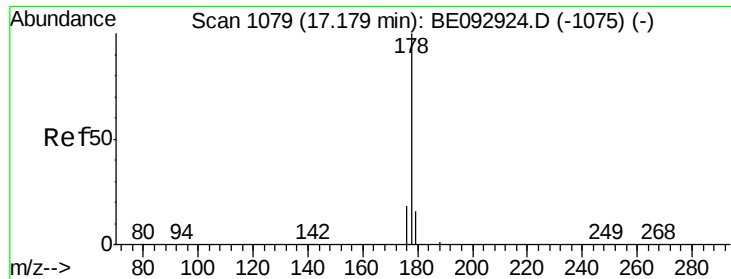


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#22

Phenanthrene

Concen: 70.36 ng

RT: 17.18 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

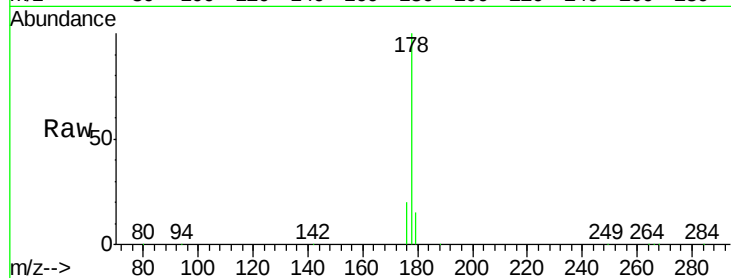
Tgt Ion: 178 Resp: 889490

Ion Ratio Lower Upper

178 100

176 20.2 14.2 21.4

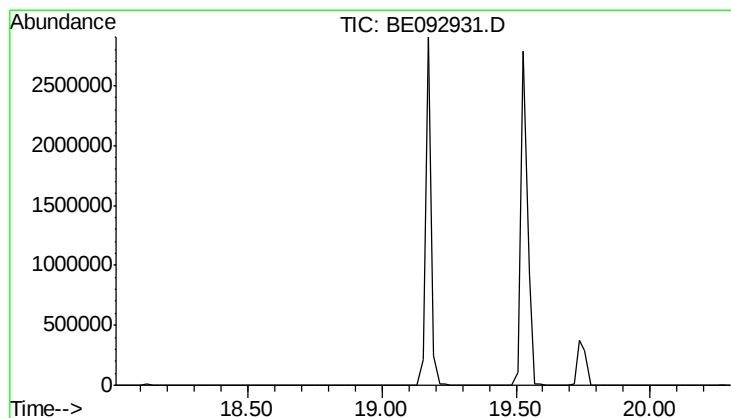
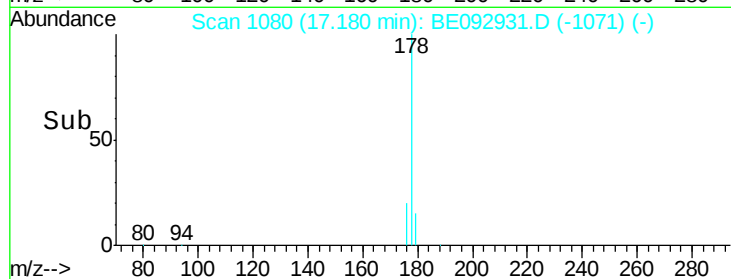
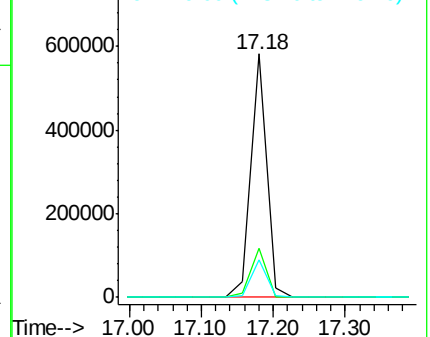
179 15.4 13.6 20.4



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

Fluoranthene-d10

Concen: 0.00 ng

Expected RT: 19.15 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

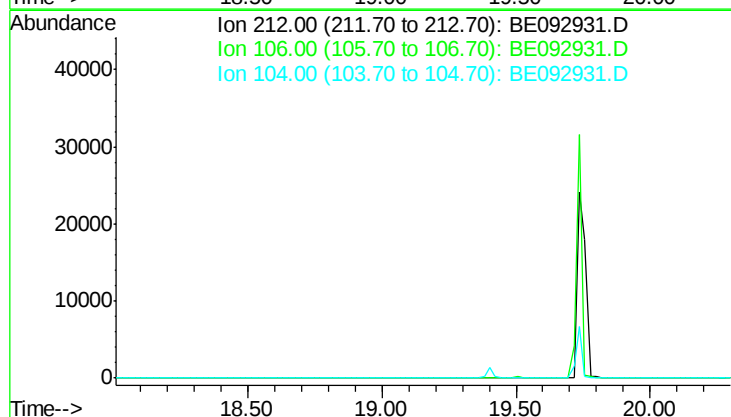
Tgt Ion: 212

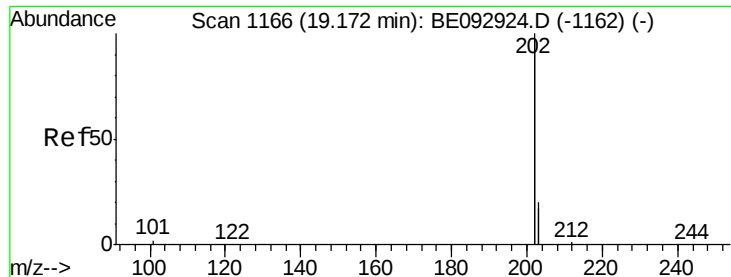
Sig Exp Ratio

212 100

106 0.0

104 0.0





#25

Fluoranthene

Concen: 64.05 ng

RT: 19.17 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

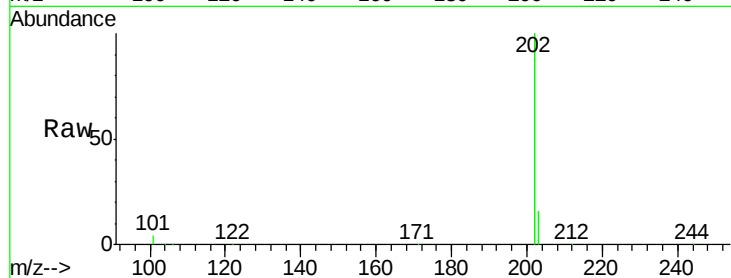
Tgt Ion:202 Resp: 3497325

Ion Ratio Lower Upper

202 100

101 3.5 0.0 0.0#

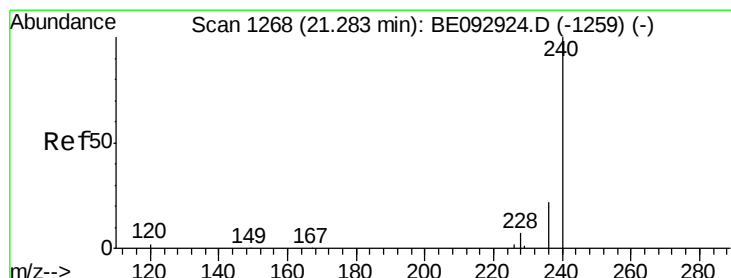
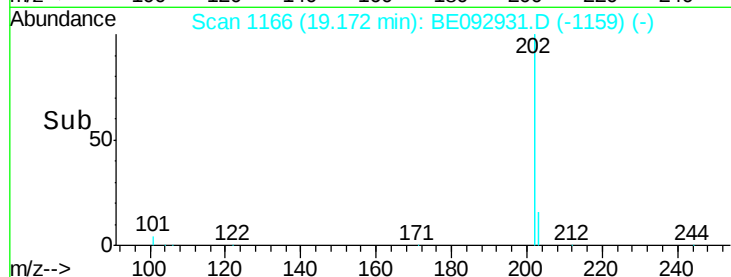
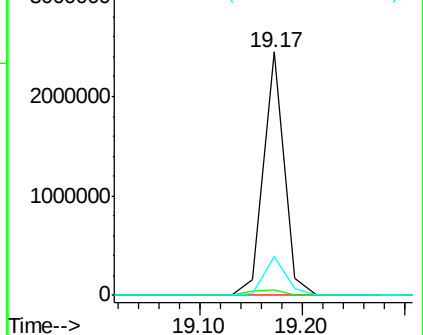
203 17.2 15.3 22.9



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: 0.40 ng

RT: 21.28 min Scan# 1268

Delta R.T. -0.00 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

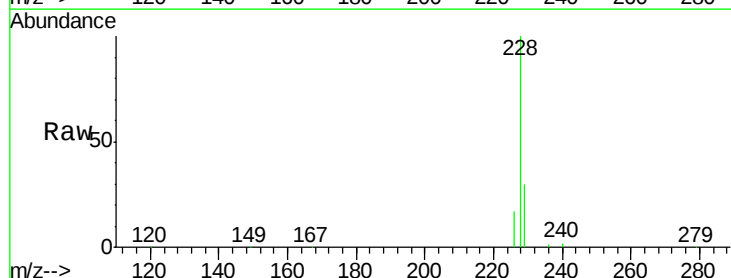
Tgt Ion:240 Resp: 4760

Ion Ratio Lower Upper

240 100

120 13.0 4.6 6.8#

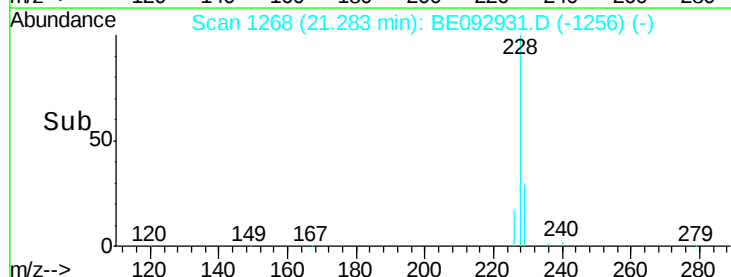
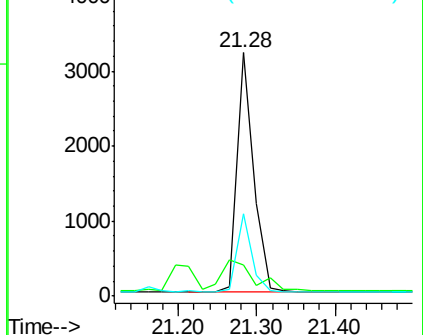
236 34.0 19.8 29.8#

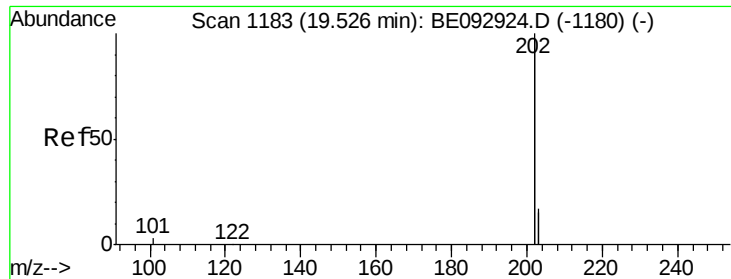


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



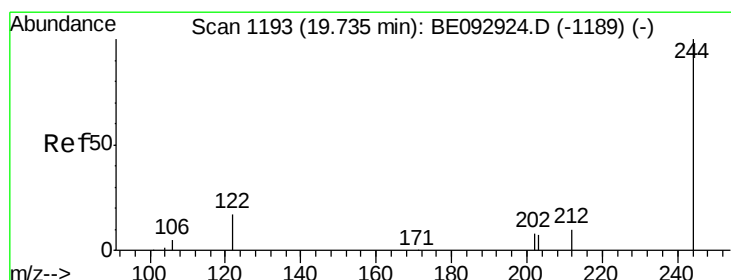
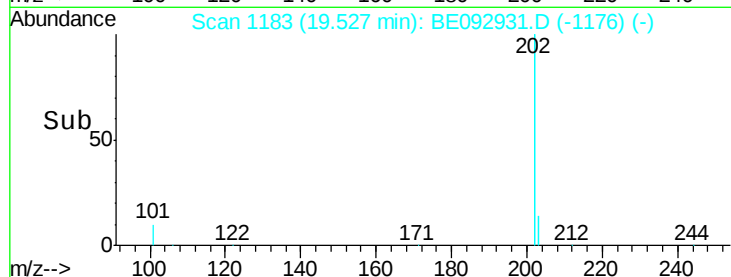
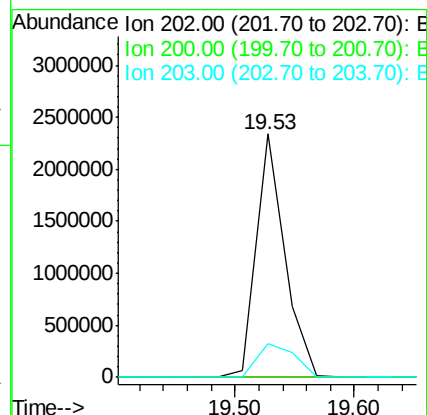
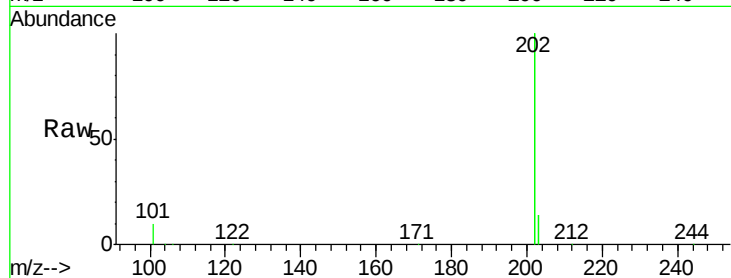


#27
 Pyrene
 Concen: 63.20 ng
 RT: 19.53 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: BE092931.D
 Acq: 5 May 2017 15:39

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOIL

Tgt Ion: 202 Resp: 3879743

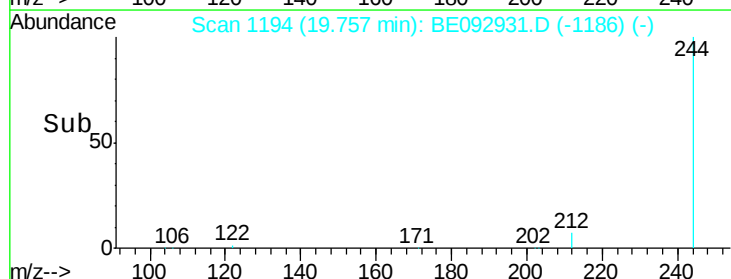
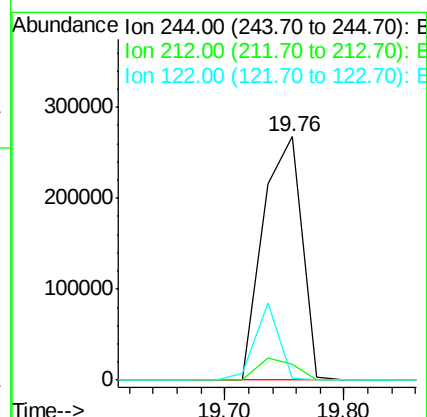
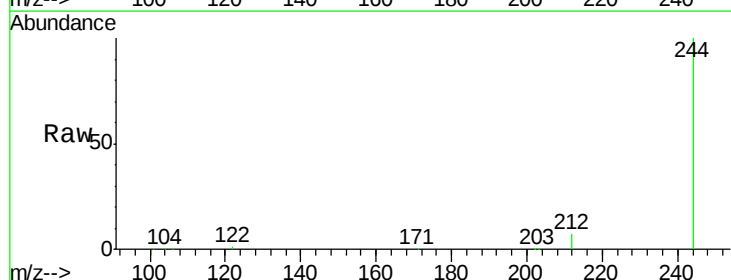
Ion	Ratio	Lower	Upper
202	100		
200	0.0	0.0	0.0
203	18.4	13.5	20.3

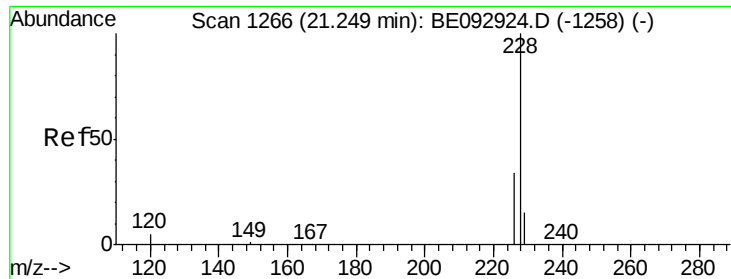


#28
 Terphenyl-d14
 Concen: 73.33 ng
 RT: 19.76 min Scan# 1194
 Delta R.T. 0.02 min
 Lab File: BE092931.D
 Acq: 5 May 2017 15:39

Tgt Ion: 244 Resp: 610345

Ion	Ratio	Lower	Upper
244	100		
212	6.7	18.4	27.6#
122	0.6	23.3	34.9#





#29

Benzo(a)anthracene

Concen: 116.66 ng

RT: 21.27 min Scan# 1267

Delta R.T. 0.02 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

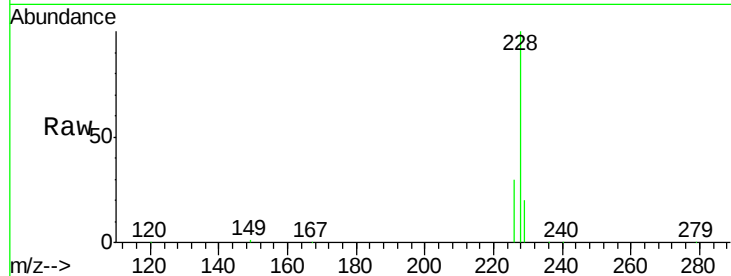
Tgt Ion:228 Resp: 1304509

Ion Ratio Lower Upper

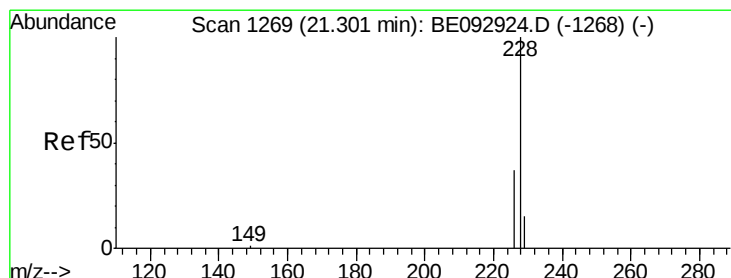
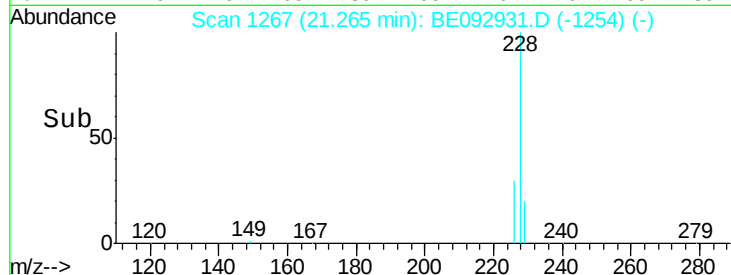
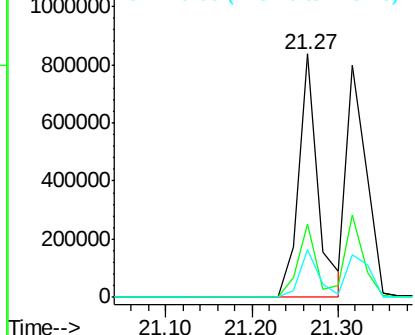
228 100

226 30.4 32.0 48.0#

229 19.7 21.4 32.0#



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



#30

Chrysene

Concen: 89.85 ng

RT: 21.32 min Scan# 1270

Delta R.T. 0.02 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

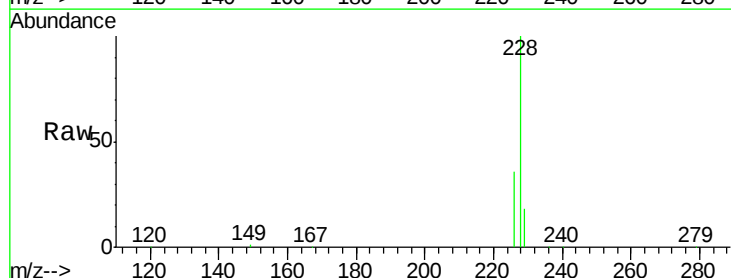
Tgt Ion:228 Resp: 1276895

Ion Ratio Lower Upper

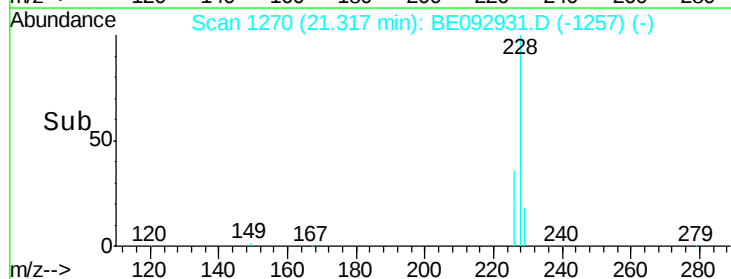
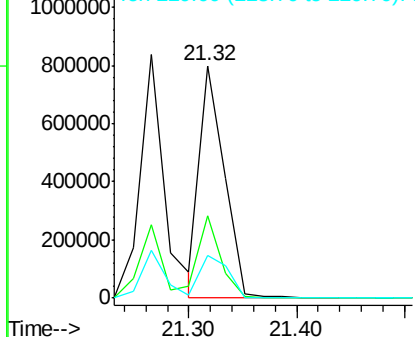
228 100

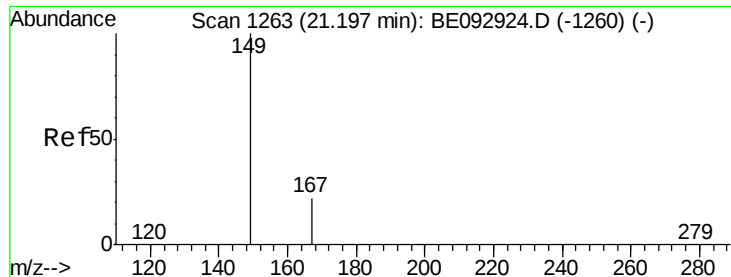
226 35.7 34.2 51.2

229 18.5 18.6 28.0#



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

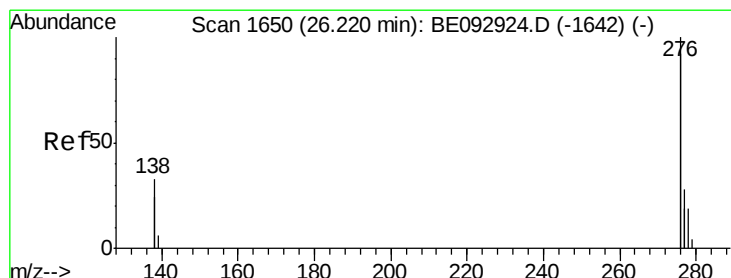
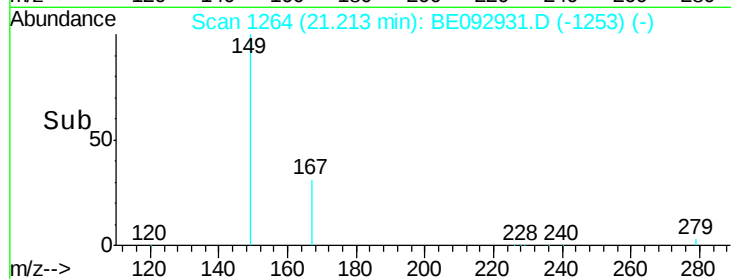
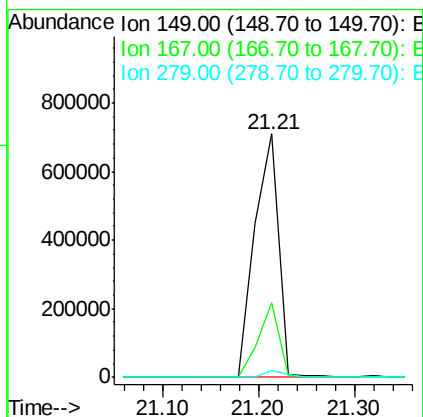
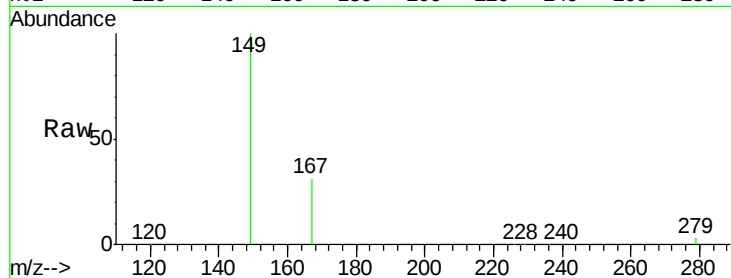




#31
 Bis(2-ethylhexyl)phthalate
 Concen: 401.27 ng
 RT: 21.21 min Scan# 1264
 Delta R.T. 0.02 min
 Lab File: BE092931.D
 Acq: 5 May 2017 15:39

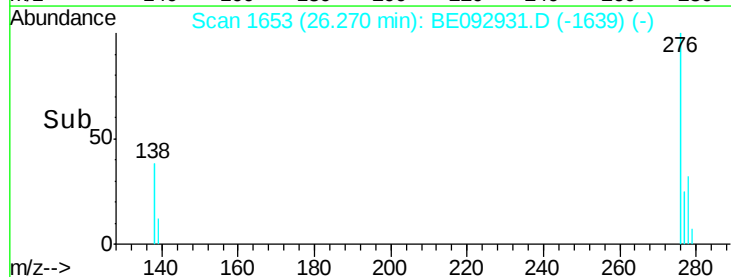
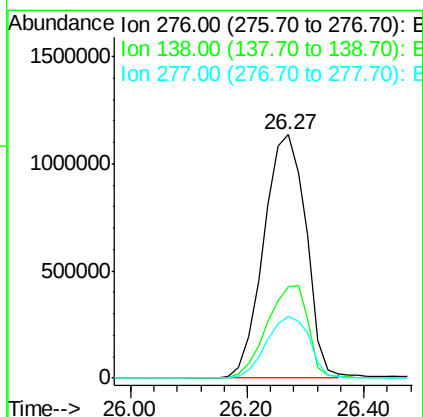
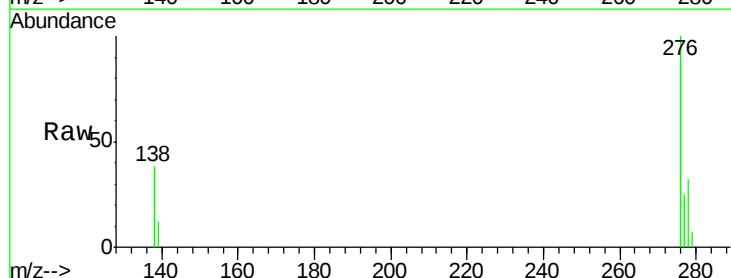
Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOIL

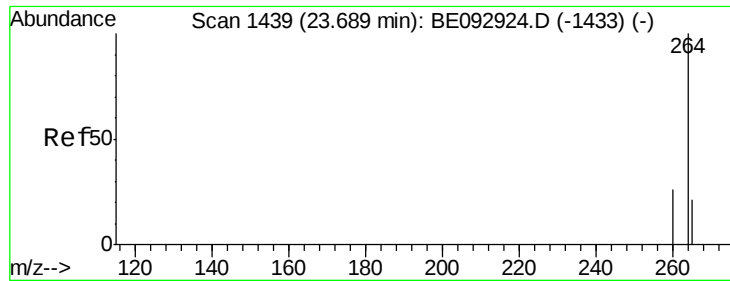
Tgt Ion:149 Resp: 1224968
 Ion Ratio Lower Upper
 149 100
 167 26.3 20.9 31.3
 279 2.5 0.0 0.0#



#32
 Indeno(1,2,3-cd)pyrene
 Concen: 111.60 ng
 RT: 26.27 min Scan# 1653
 Delta R.T. 0.05 min
 Lab File: BE092931.D
 Acq: 5 May 2017 15:39

Tgt Ion:276 Resp: 5724008
 Ion Ratio Lower Upper
 276 100
 138 37.1 25.8 38.6
 277 25.6 20.2 30.4

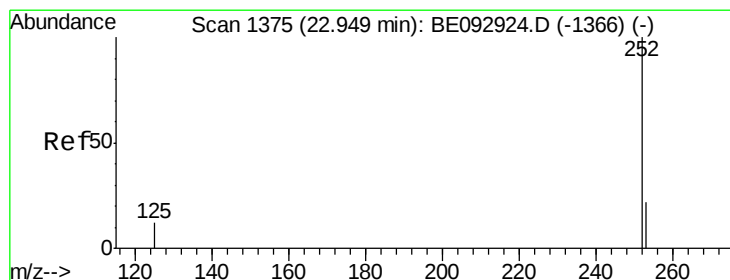
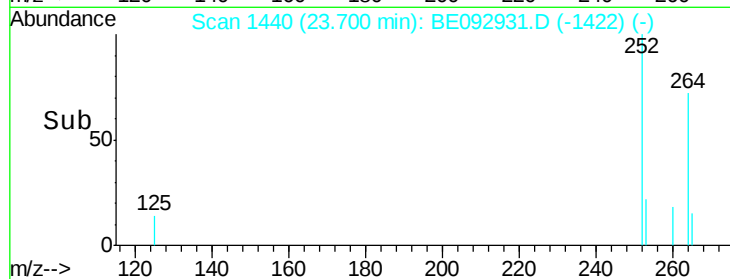
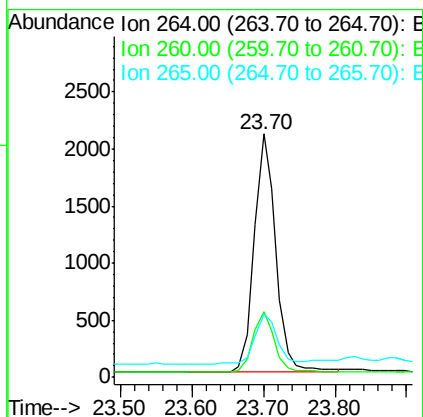
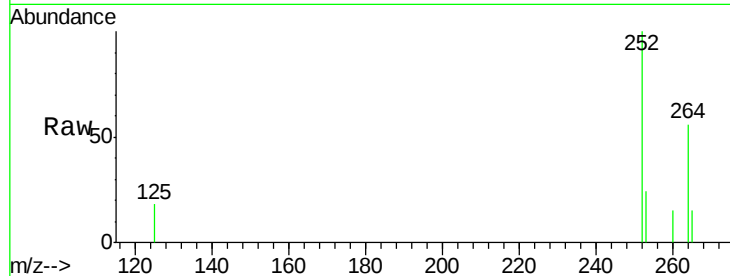




#33
 Perylene-d12
 Concen: 0.40 ng
 RT: 23.70 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: BE092931.D
 Acq: 5 May 2017 15:39

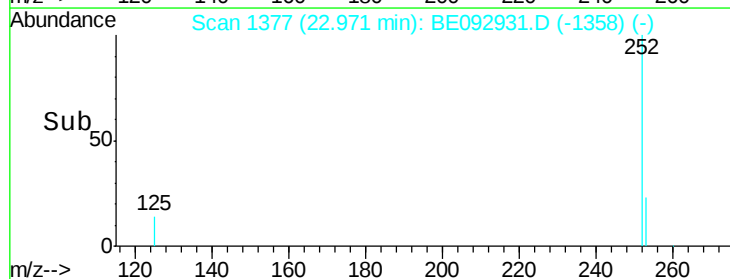
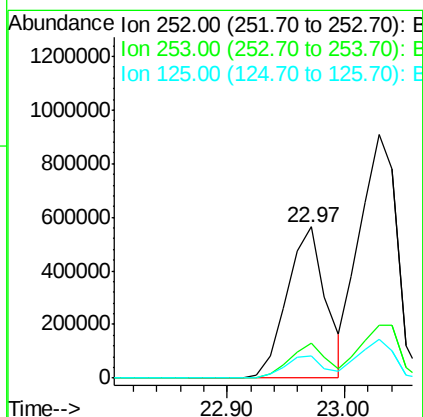
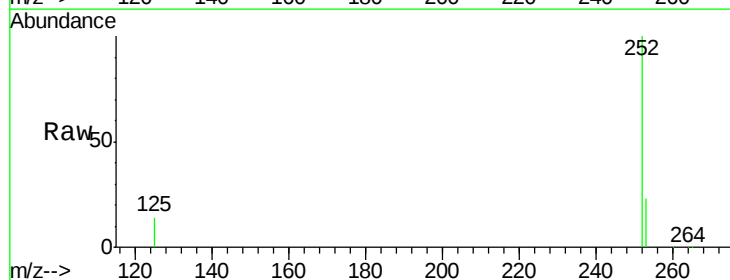
Instrument :
 BNA_E
 ClientSampled :
 PT-BNA-SOIL

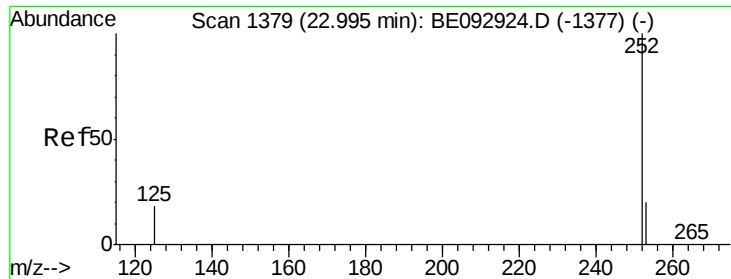
Tgt Ion: 264 Resp: 4392
 Ion Ratio Lower Upper
 264 100
 260 27.1 23.5 35.3
 265 26.1 27.2 40.8#



#34
 Benzo(b)fluoranthene
 Concen: 89.93 ng
 RT: 22.97 min Scan# 1377
 Delta R.T. 0.02 min
 Lab File: BE092931.D
 Acq: 5 May 2017 15:39

Tgt Ion: 252 Resp: 1292379
 Ion Ratio Lower Upper
 252 100
 253 22.9 24.7 37.1#
 125 14.3 20.3 30.5#

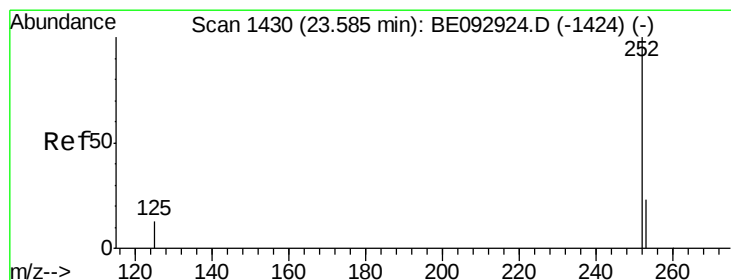
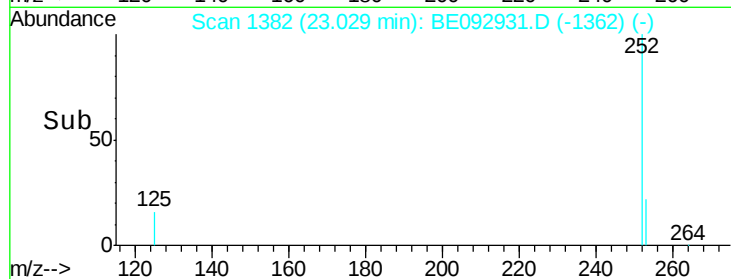
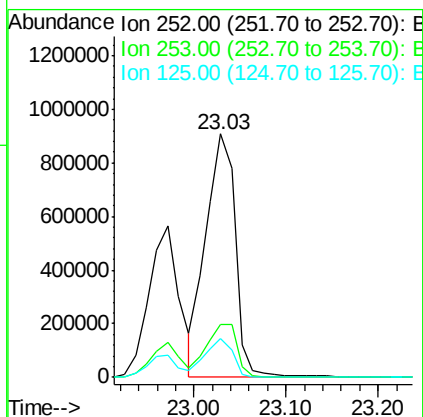
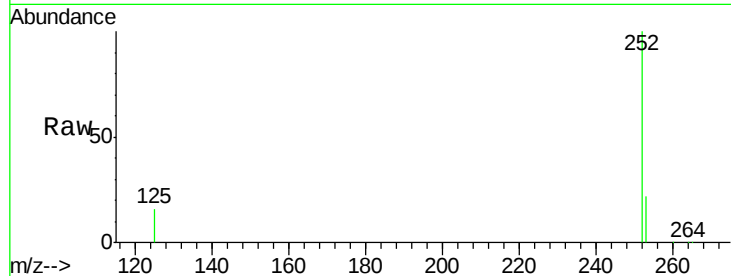




#35
Benzo(k)fluoranthene
Concen: 139.60 ng
RT: 23.03 min Scan# 1382
Delta R.T. 0.03 min
Lab File: BE092931.D
Acq: 5 May 2017 15:39

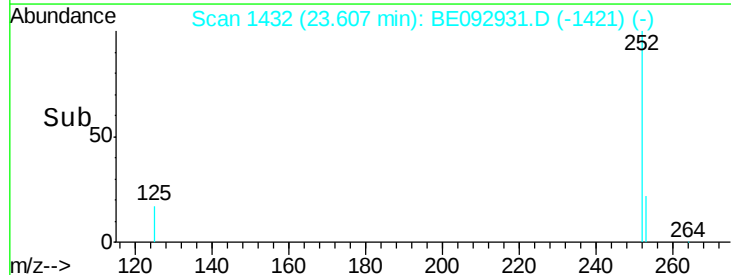
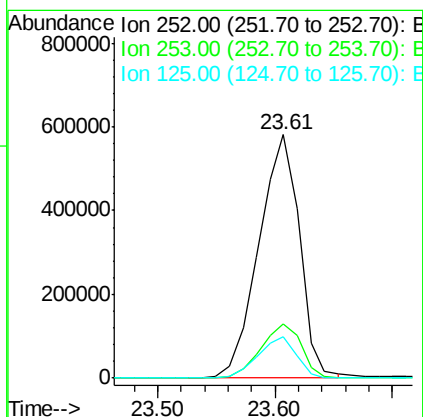
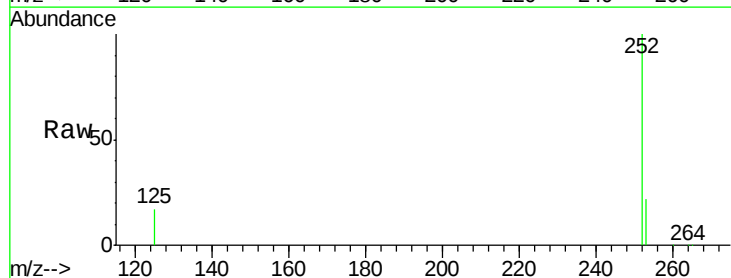
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOIL

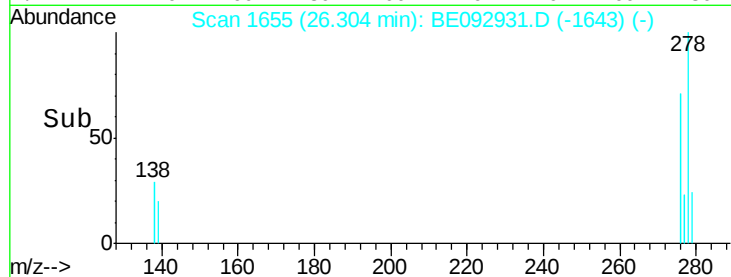
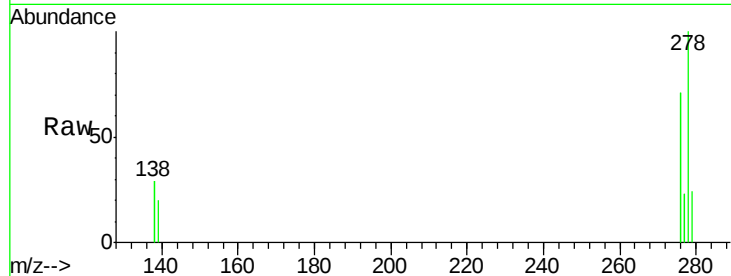
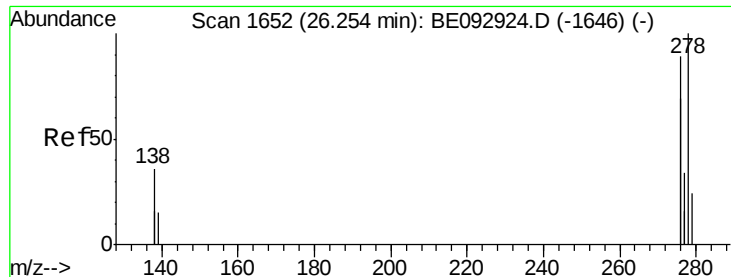
Tgt Ion:252 Resp: 2003693
Ion Ratio Lower Upper
252 100
253 21.6 25.8 38.8#
125 16.1 22.9 34.3#



#36
Benzo(a)pyrene
Concen: 118.47 ng
RT: 23.61 min Scan# 1432
Delta R.T. 0.02 min
Lab File: BE092931.D
Acq: 5 May 2017 15:39

Tgt Ion:252 Resp: 1390999
Ion Ratio Lower Upper
252 100
253 22.1 31.3 46.9#
125 16.9 26.4 39.6#





#37

Dibenzo(a,h)anthracene

Concen: 108.73 ng

RT: 26.30 min Scan# 1655

Delta R.T. 0.05 min

Lab File: BE092931.D

Acq: 5 May 2017 15:39

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOIL

Tgt Ion:278 Resp: 1438154

Ion Ratio Lower Upper

278 100

139 20.4 27.4 41.2#

279 24.3 33.3 49.9#

