

Data Path : Z:\HPCHEM1\BNA_E\Data\BE032817\
 Data File : BE092837.D
 Acq On : 28 Mar 2017 15:13
 Operator : SJ/MA
 Sample : I2194-21
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Quant Time: Mar 28 15:51:56 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE032817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 28 14:58:05 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	7828	5.00	ng	0.00
7) Naphthalene-d8	10.54	136	33667	5.00	ng	0.00
12) Acenaphthene-d10	14.40	164	15839	5.00	ng	0.00
18) Phenanthrene-d10	17.16	188	33635	5.00	ng	0.00
24) Chrysene-d12	21.28	240	40872	5.00	ng	-0.02
31) Perylene-d12	23.71	264	38808	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	16383	8.99	ng	0.00
5) Phenol-d6	6.94	99	23663	8.85	ng	0.00
8) Nitrobenzene-d5	8.93	82	6806	3.52	ng	0.00
13) 2,4,6-Tribromophenol	15.88	330	1965	7.94	ng	0.00
14) 2-Fluorobiphenyl	13.03	172	21284	4.08	ng	0.00
26) Terphenyl-d14	19.76	244	25186	3.56	ng	0.00

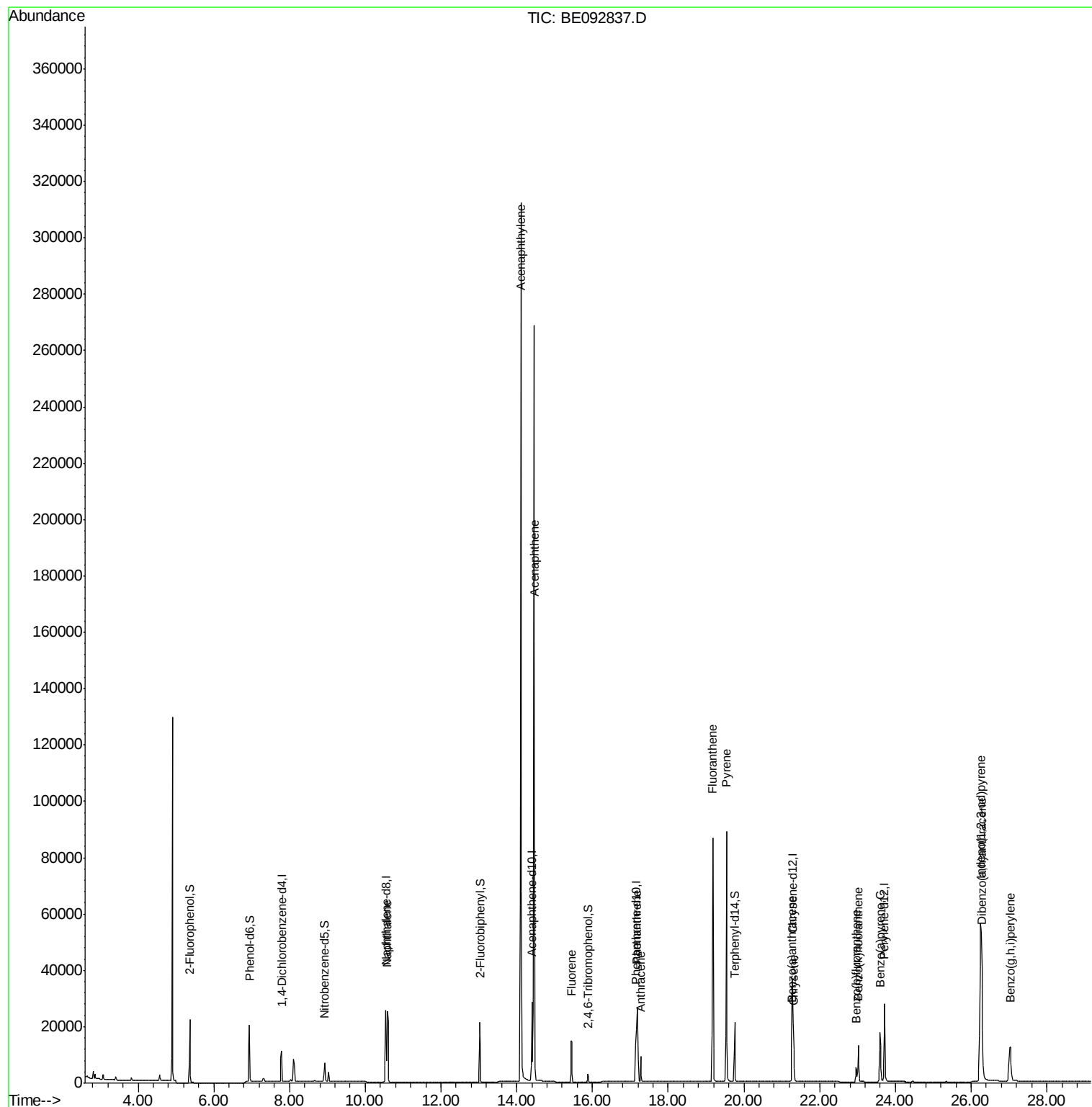
Target Compounds						Qvalue
9) Naphthalene	10.58	128	45474	6.17	ng	# 95
15) Acenaphthylene	14.11	152	395109	16.27	ng	100
16) Acenaphthene	14.47	154	57917	13.38	ng	93
17) Fluorene	15.45	166	11759	2.28	ng	99
21) Phenanthrene	17.18	178	34322	4.19	ng	# 93
22) Anthracene	17.27	178	11525	1.55	ng	98
23) Fluoranthene	19.18	202	94860	2.52	ng	99
25) Pyrene	19.54	202	97599	2.40	ng	99
27) Benzo(a)anthracene	21.26	228	10933	1.13	ng	98
28) Chrysene	21.31	228	10576	1.03	ng	# 85
30) Indeno(1,2,3-cd)pyrene	26.25	276	120085	3.12	ng	# 90
32) Benzo(b)fluoranthene	22.96	252	7057	0.68	ng	97
33) Benzo(k)fluoranthene	23.02	252	18197	1.97	ng	96
34) Benzo(a)pyrene	23.60	252	27435	3.21	ng	97
35) Dibenzo(a,h)anthracene	26.29	278	34705	3.82	ng	97
36) Benzo(g,h,i)perylene	27.04	276	29581	0.79	ng	98

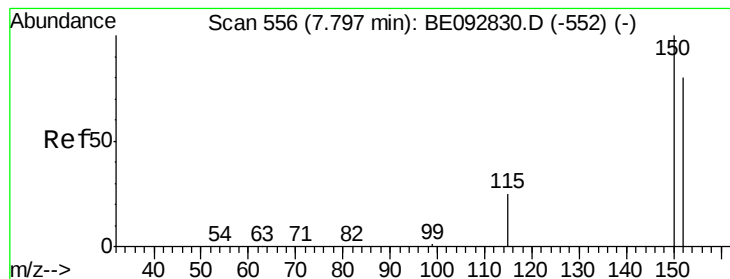
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 556

Delta R.T. -0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

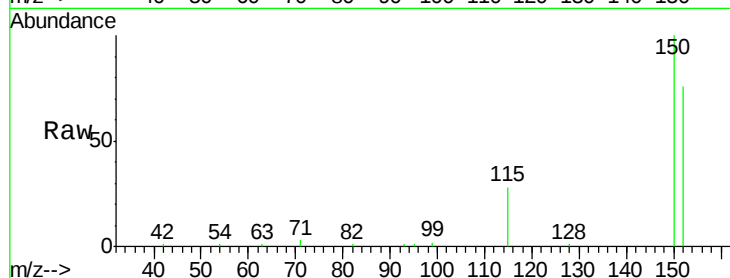
Tgt Ion:152 Resp: 7828

Ion Ratio Lower Upper

152 100

150 131.5 106.0 159.0

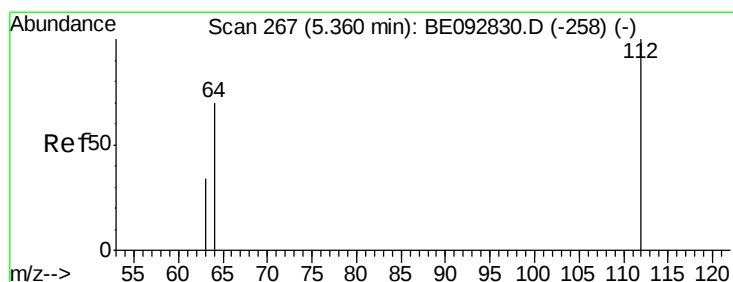
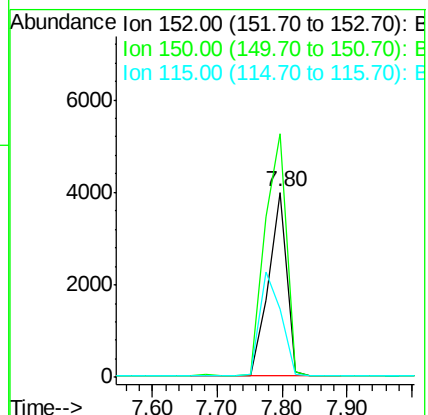
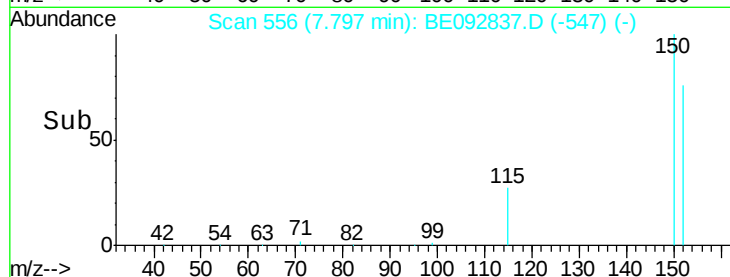
115 36.7 31.2 46.8



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: 8.99 ng

RT: 5.36 min Scan# 268

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

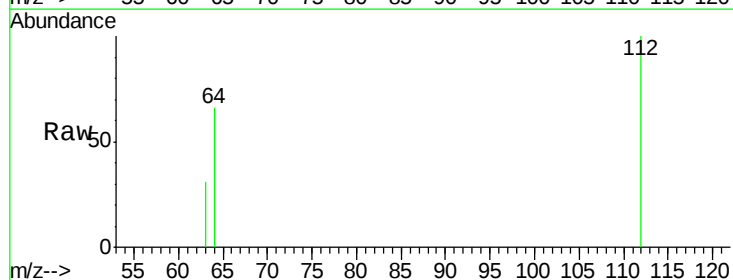
Tgt Ion:112 Resp: 16383

Ion Ratio Lower Upper

112 100

64 69.1 53.5 80.3

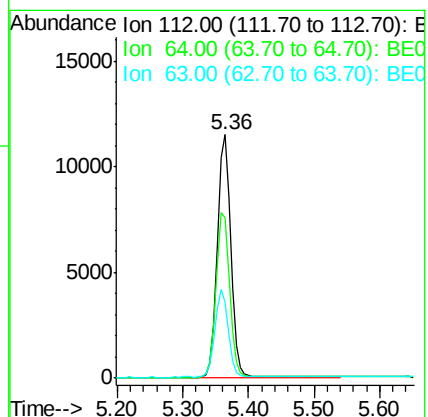
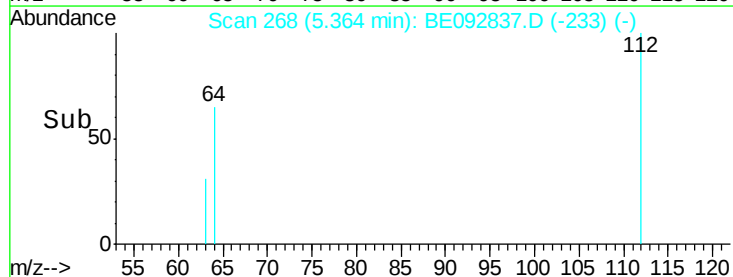
63 35.6 27.9 41.9

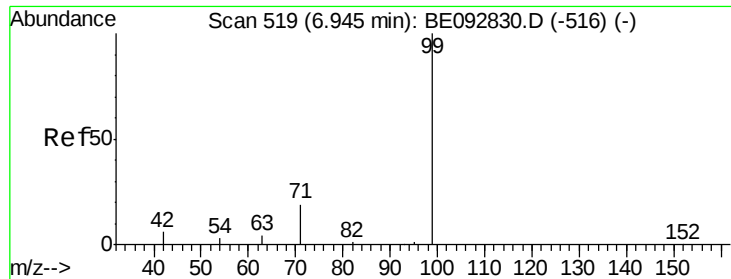


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 8.85 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

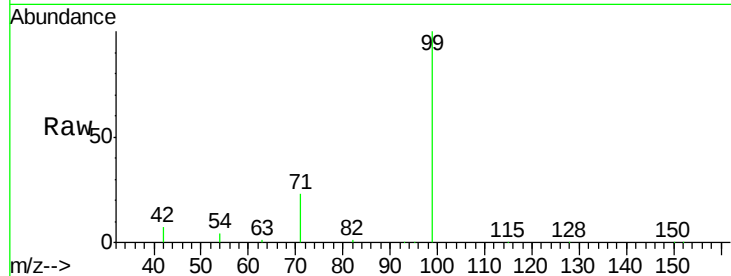
Tgt Ion: 99 Resp: 23663

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

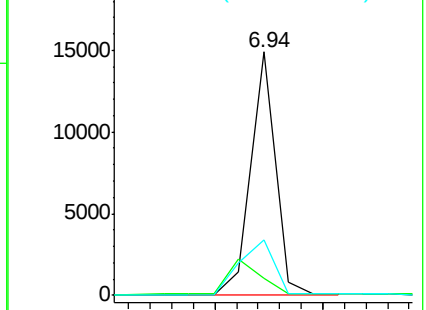
71 31.5 30.6 45.8



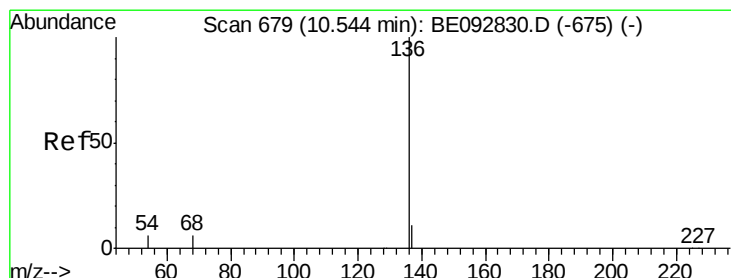
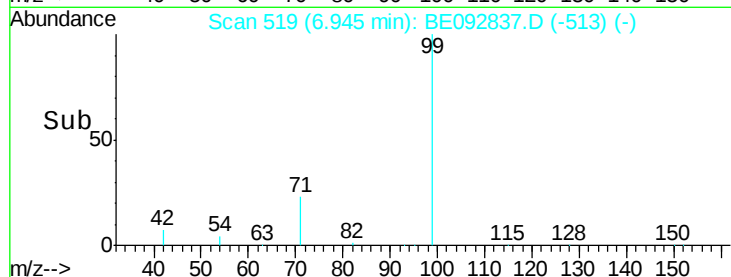
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.54 min Scan# 679

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Tgt Ion: 136 Resp: 33667

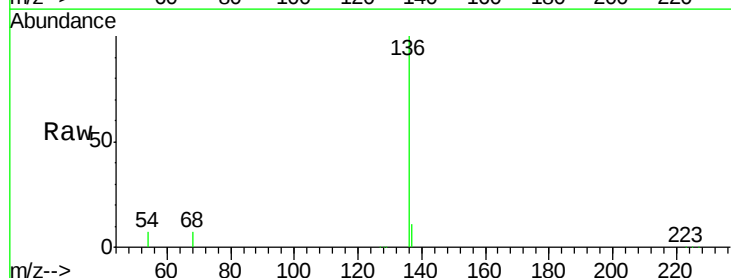
Ion Ratio Lower Upper

136 100

137 10.7 8.2 12.4

54 7.5 9.6 14.4#

68 6.9 6.7 10.1

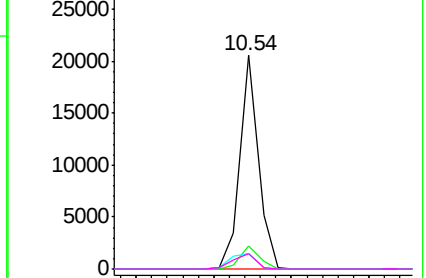


Abundance Ion 136.00 (135.70 to 136.70): E

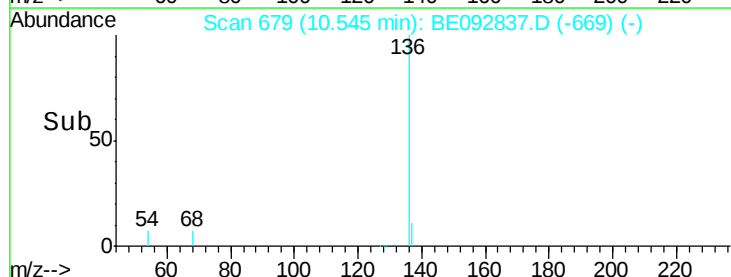
Ion 137.00 (136.70 to 137.70): E

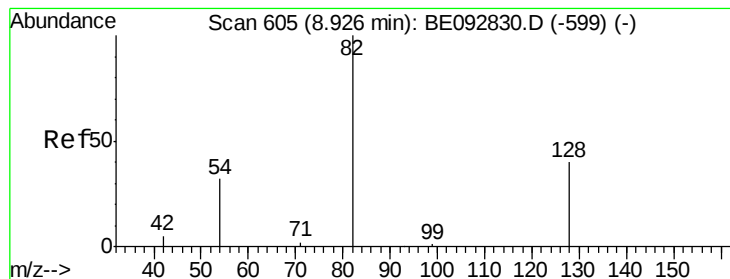
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 3.52 ng

RT: 8.93 min Scan# 605

Delta R.T. -0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

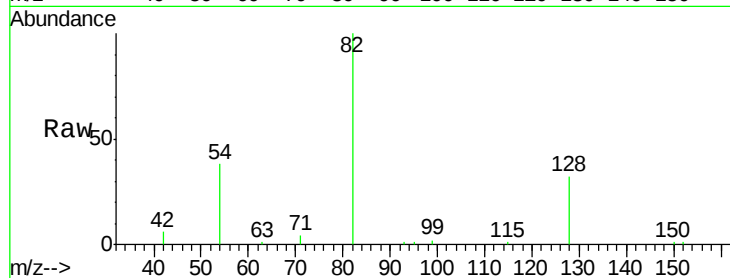
Tgt Ion: 82 Resp: 6806

Ion Ratio Lower Upper

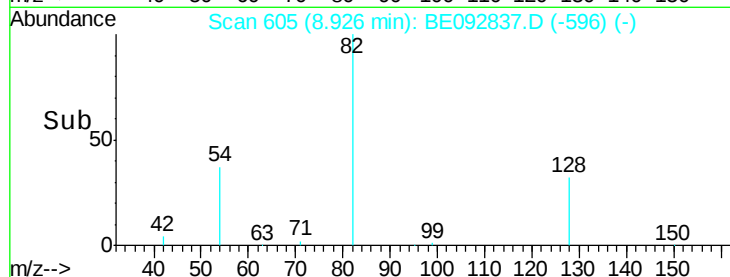
82 100

128 32.4 39.0 58.4#

54 37.9 44.8 67.2#



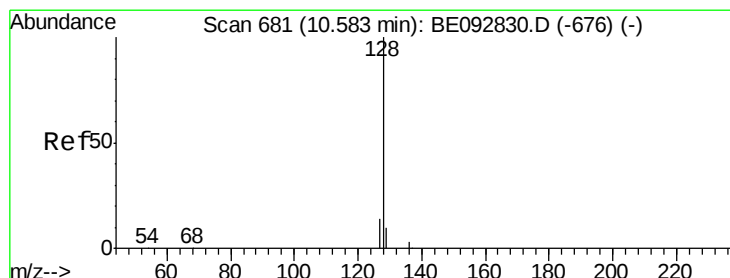
Abundance Ion 82.00 (81.70 to 82.70): BE092837.D (-596) (-)



Ion 128.00 (127.70 to 128.70): BE092837.D (-596) (-)

Ion 54.00 (53.70 to 54.70): BE092837.D (-596) (-)

Time-->



#9

Naphthalene

Concen: 6.17 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

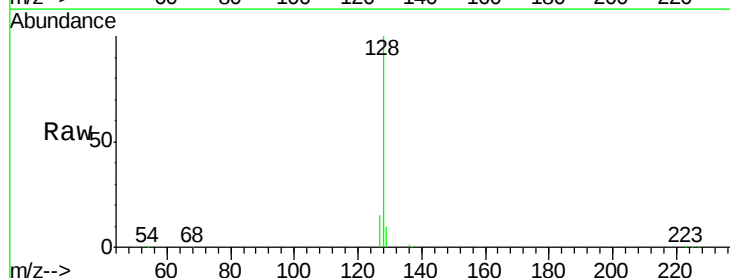
Tgt Ion: 128 Resp: 45474

Ion Ratio Lower Upper

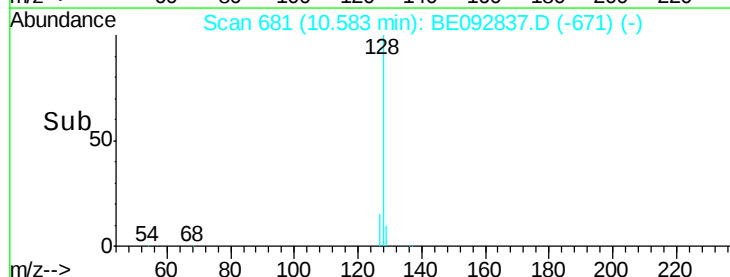
128 100

129 10.1 11.2 16.8#

127 14.9 11.6 17.4



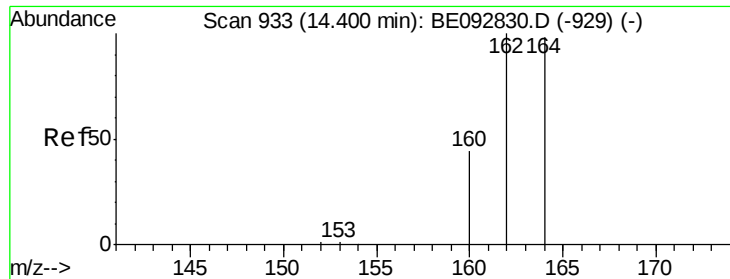
Abundance Ion 128.00 (127.70 to 128.70): BE092837.D (-671) (-)



Ion 129.00 (128.70 to 129.70): BE092837.D (-671) (-)

Ion 127.00 (126.70 to 127.70): BE092837.D (-671) (-)

Time-->



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 933

Delta R.T. -0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

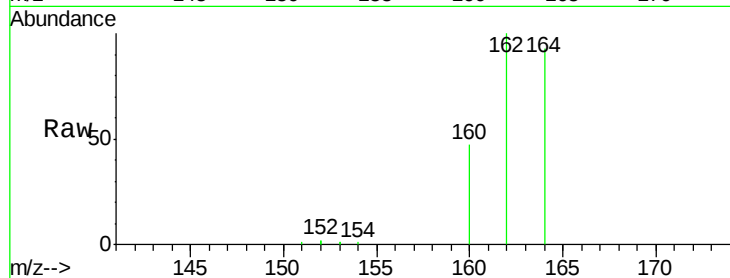
Tgt Ion:164 Resp: 15839

Ion Ratio Lower Upper

164 100

162 107.0 71.4 107.0

160 50.0 27.4 41.2#



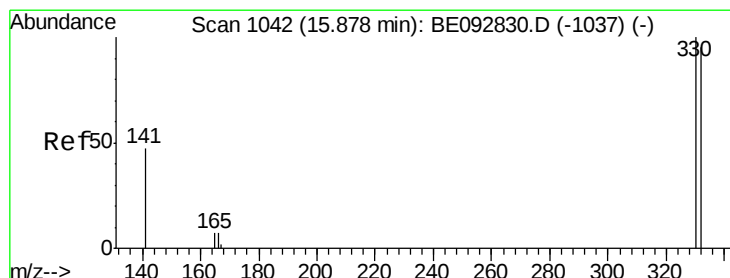
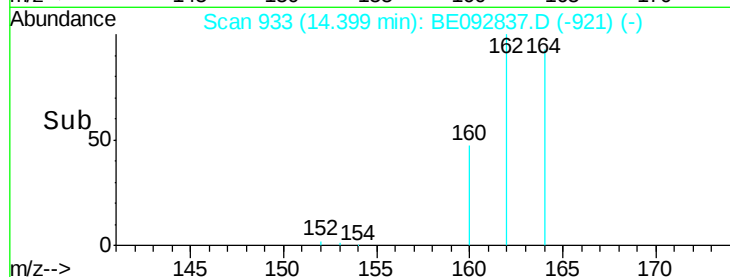
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.40

Time-->



#13

2,4,6-Tribromophenol

Concen: 7.94 ng

RT: 15.88 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

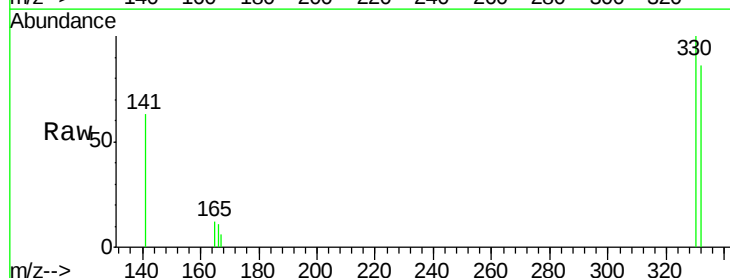
Tgt Ion:330 Resp: 1965

Ion Ratio Lower Upper

330 100

332 97.0 75.4 113.0

141 56.9 31.0 46.6#



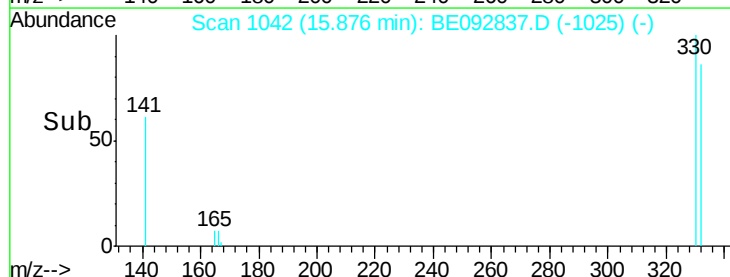
Abundance Ion 329.80 (329.50 to 330.50): E

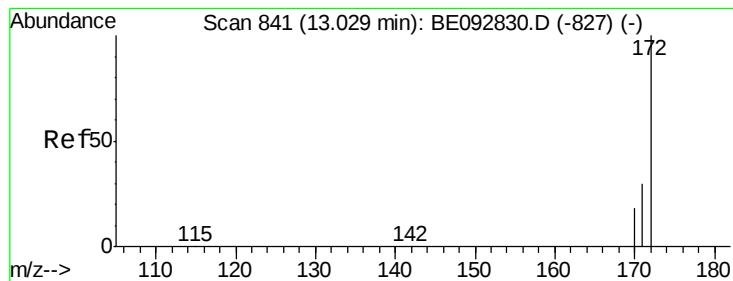
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

15.88

Time-->





#14

2-Fluorobiphenyl

Concen: 4.08 ng

RT: 13.03 min Scan# 841

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

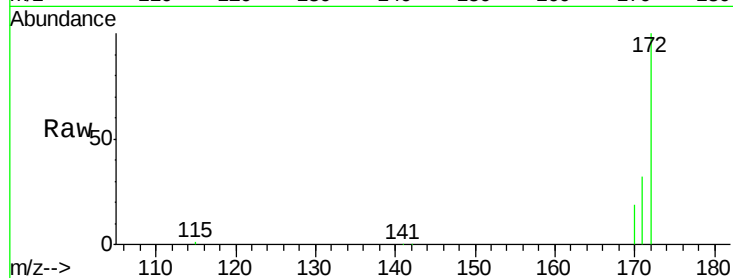
Tgt Ion:172 Resp: 21284

Ion Ratio Lower Upper

172 100

171 31.8 30.1 45.1

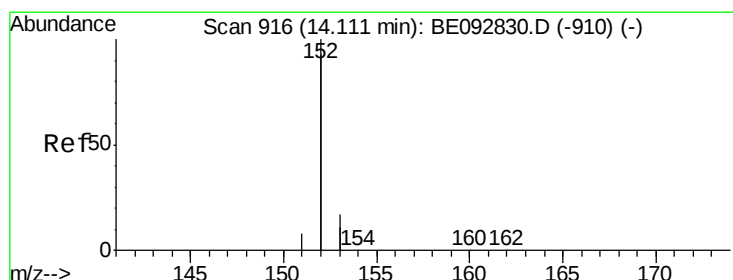
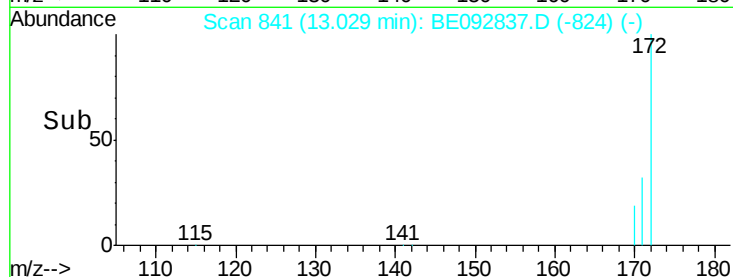
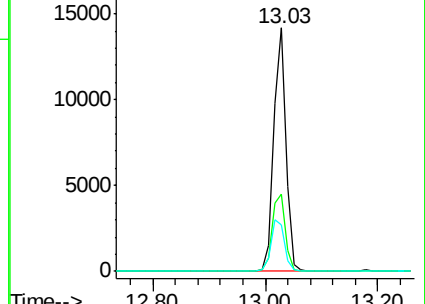
170 19.2 21.8 32.6#



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



#15

Acenaphthylene

Concen: 16.27 ng

RT: 14.11 min Scan# 916

Delta R.T. -0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

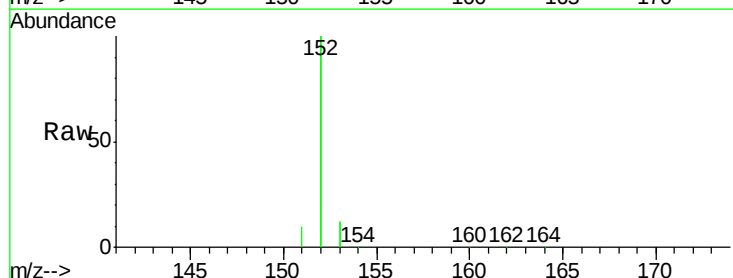
Tgt Ion:152 Resp: 395109

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

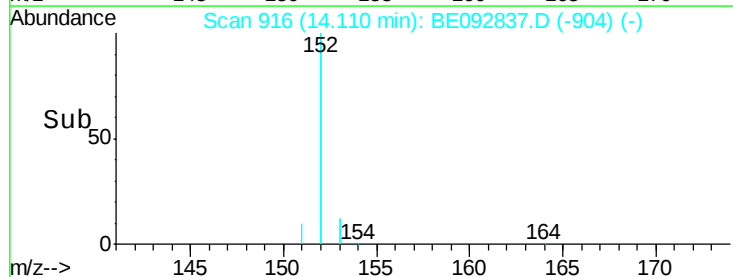
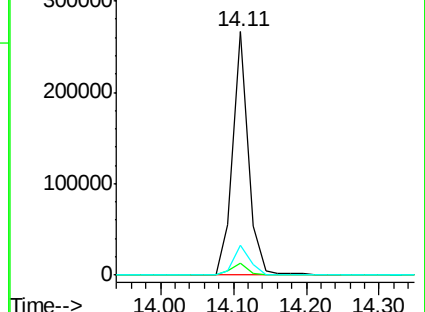
153 13.0 10.4 15.6

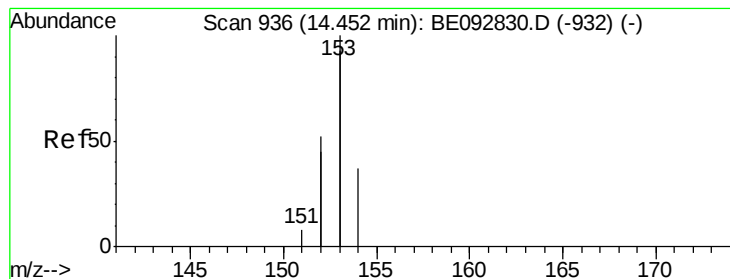


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#16

Acenaphthene

Concen: 13.38 ng

RT: 14.47 min Scan# 937

Delta R.T. 0.02 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

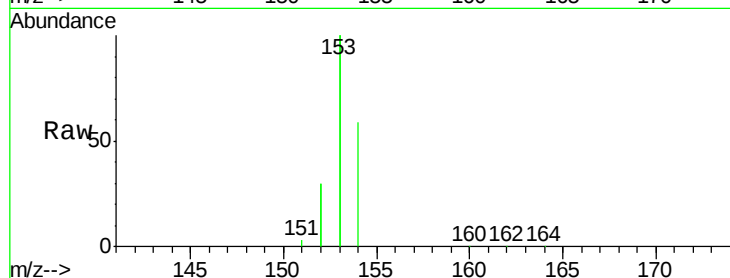
Tgt Ion:154 Resp: 57917

Ion Ratio Lower Upper

154 100

153 457.3 350.8 526.2

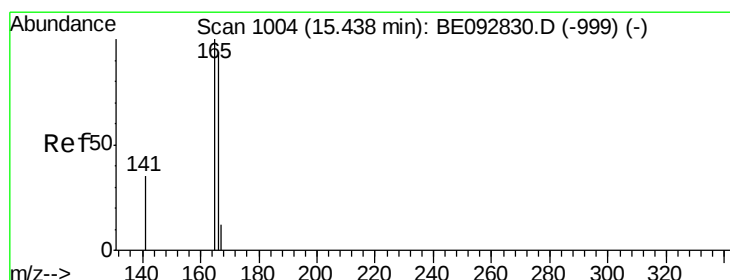
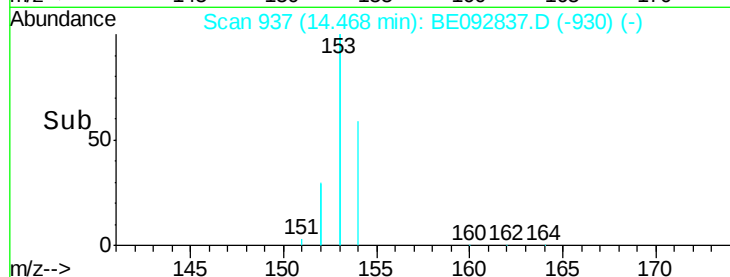
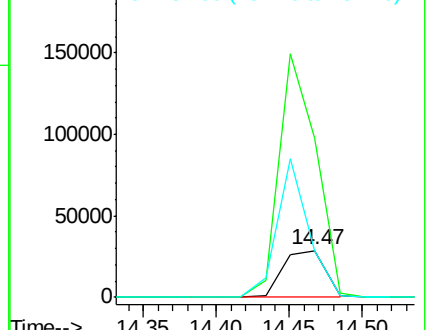
152 221.2 171.1 256.7



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



#17

Fluorene

Concen: 2.28 ng

RT: 15.45 min Scan# 1005

Delta R.T. 0.01 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

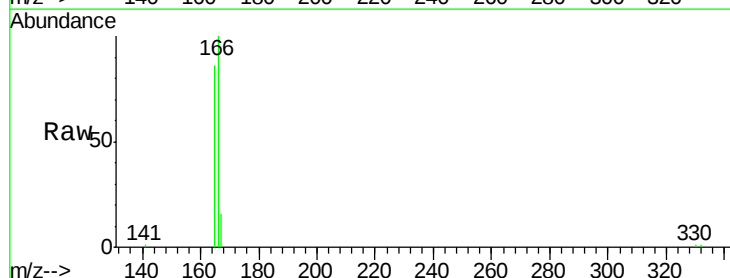
Tgt Ion:166 Resp: 11759

Ion Ratio Lower Upper

166 100

165 98.8 78.2 117.4

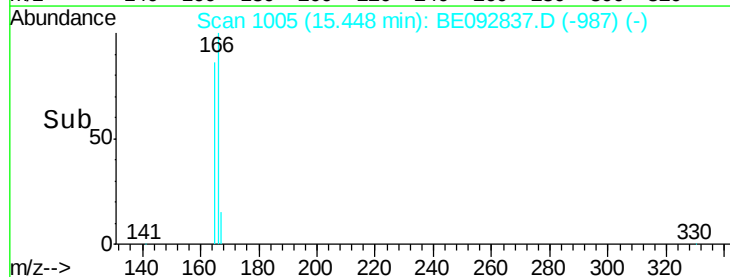
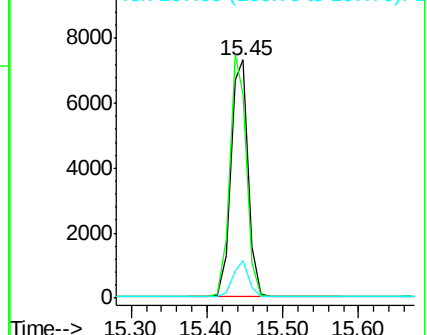
167 13.9 11.0 16.4

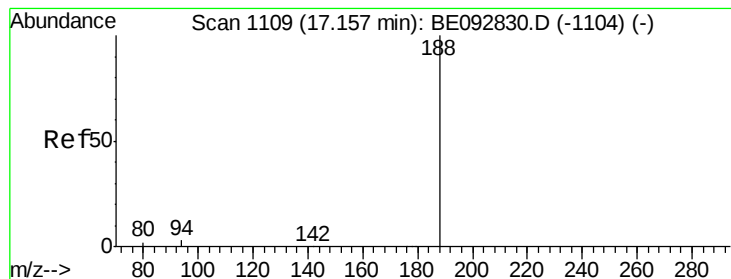


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.16 min Scan# 1110

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

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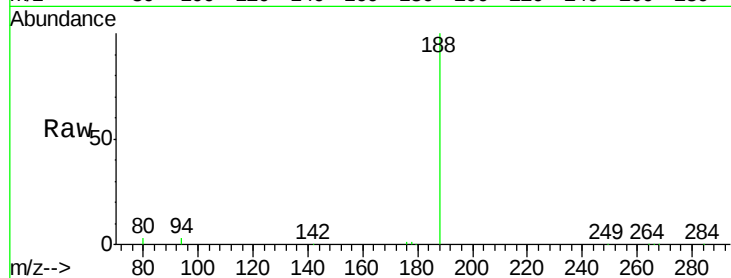
Tgt Ion:188 Resp: 33635

Ion Ratio Lower Upper

188 100

94 3.1 3.2 4.8#

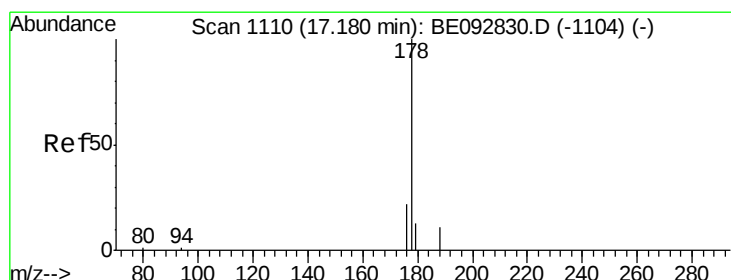
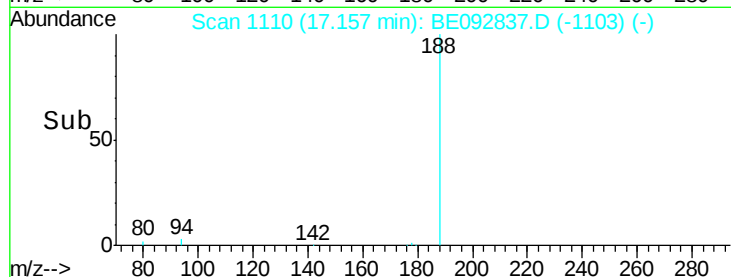
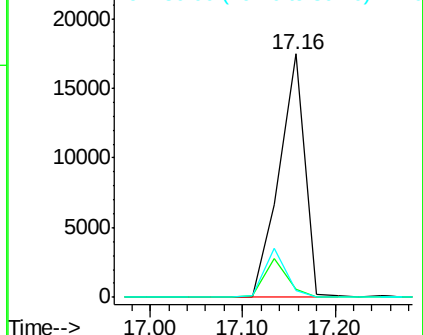
80 2.5 2.6 3.8#



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



#21

Phenanthrene

Concen: 4.19 ng

RT: 17.18 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

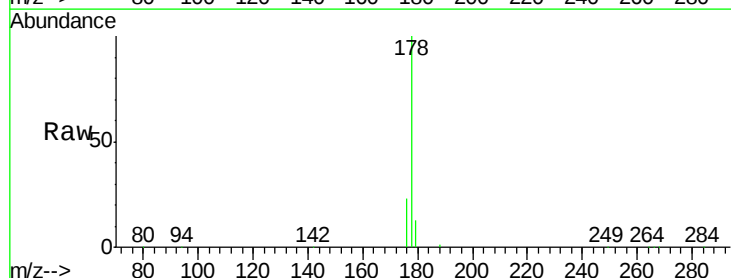
Tgt Ion:178 Resp: 34322

Ion Ratio Lower Upper

178 100

176 20.7 15.8 23.8

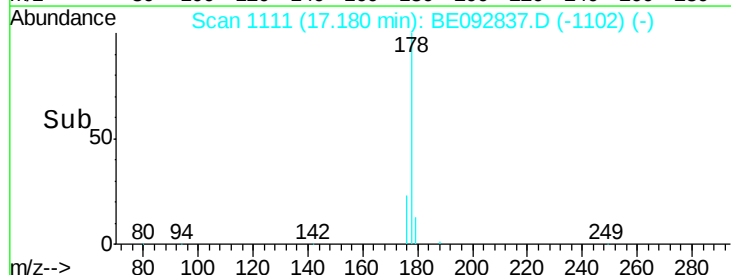
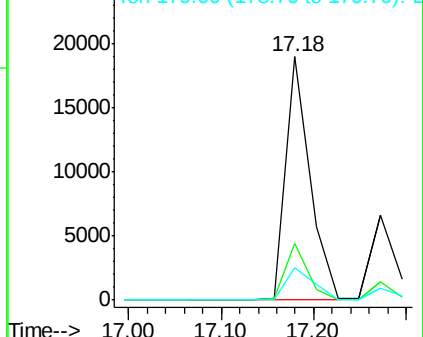
179 14.9 16.0 24.0#

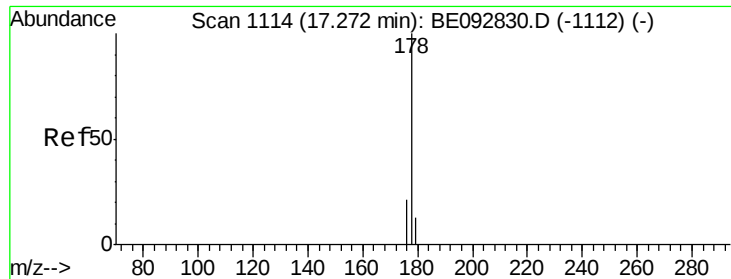


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#22

Anthracene

Concen: 1.55 ng

RT: 17.27 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

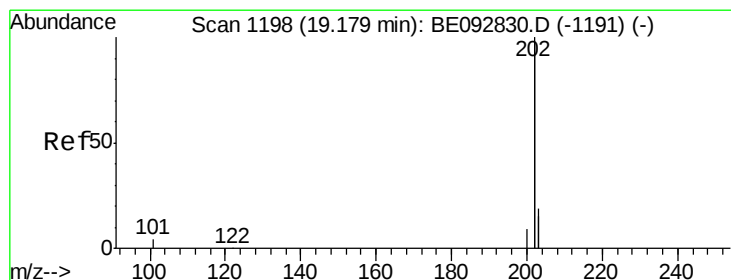
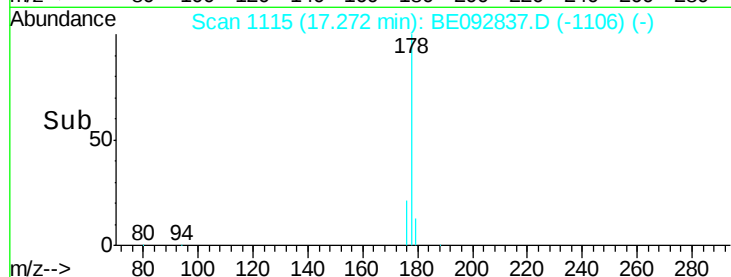
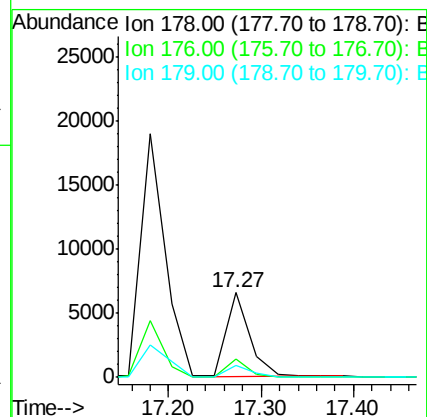
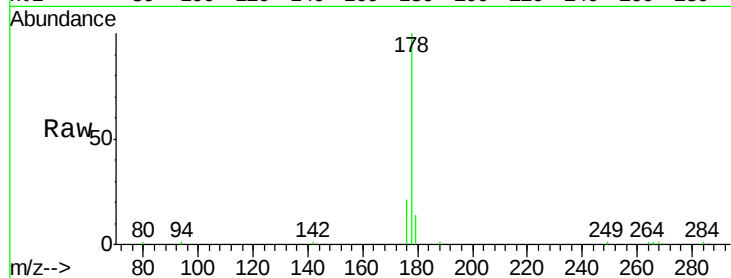
Tgt Ion:178 Resp: 11525

Ion Ratio Lower Upper

178 100

176 19.4 15.0 22.4

179 14.5 12.2 18.2



#23

Fluoranthene

Concen: 2.52 ng

RT: 19.18 min Scan# 1199

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

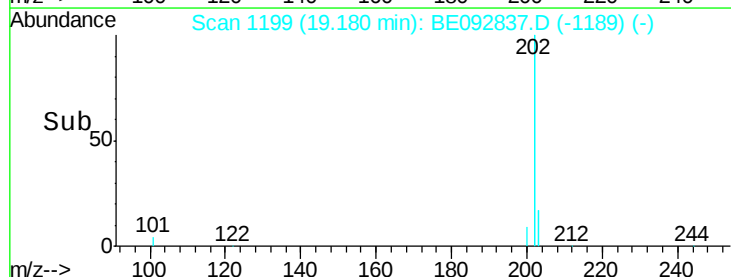
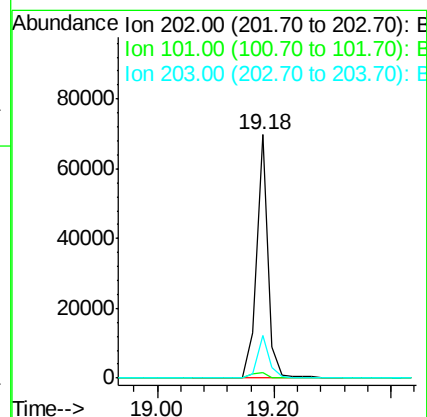
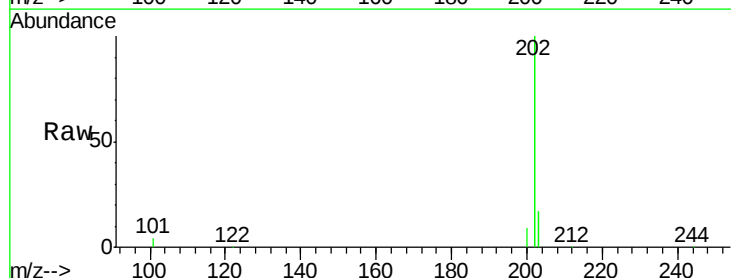
Tgt Ion:202 Resp: 94860

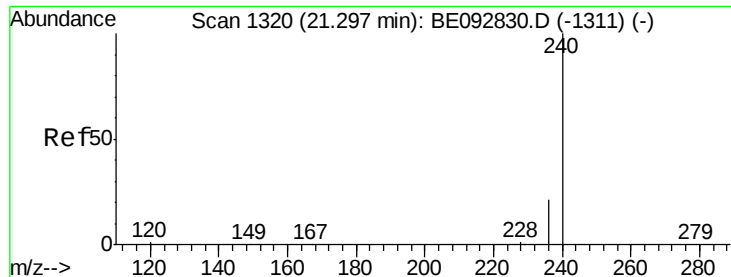
Ion Ratio Lower Upper

202 100

101 3.2 2.2 3.4

203 17.6 13.7 20.5





#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.28 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

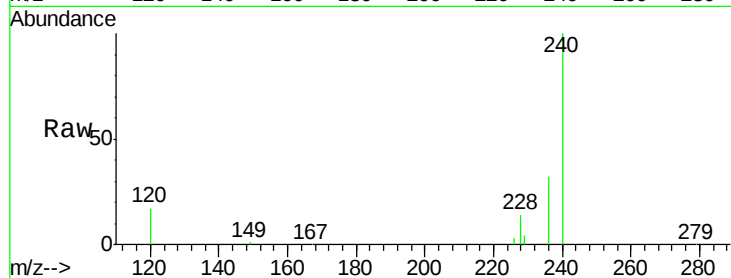
Tgt Ion:240 Resp: 40872

Ion Ratio Lower Upper

240 100

120 17.3 2.6 4.0#

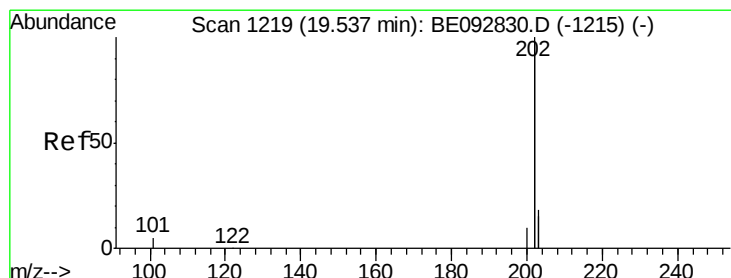
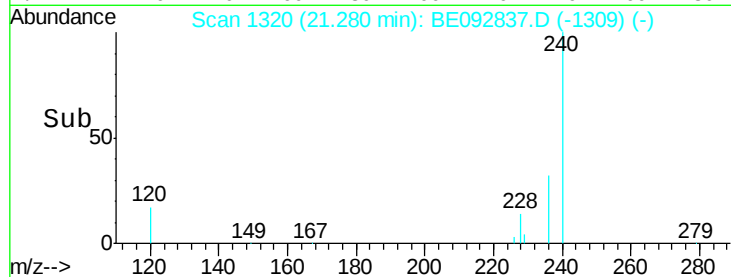
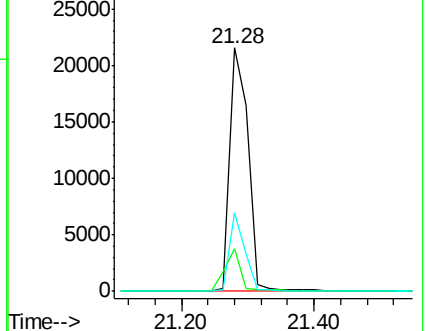
236 32.4 24.6 37.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#25

Pyrene

Concen: 2.40 ng

RT: 19.54 min Scan# 1220

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

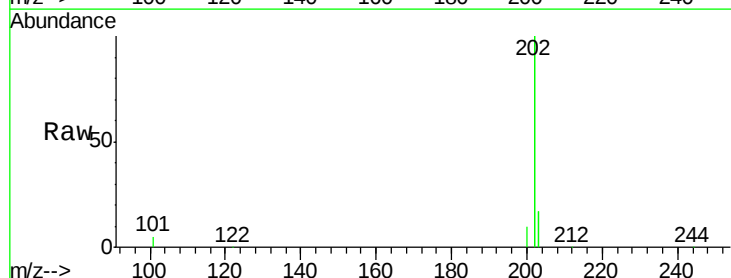
Tgt Ion:202 Resp: 97599

Ion Ratio Lower Upper

202 100

200 5.0 4.2 6.4

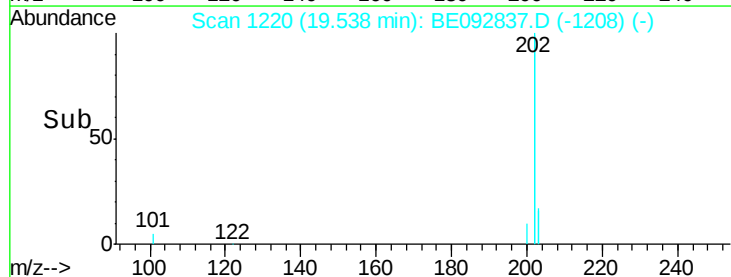
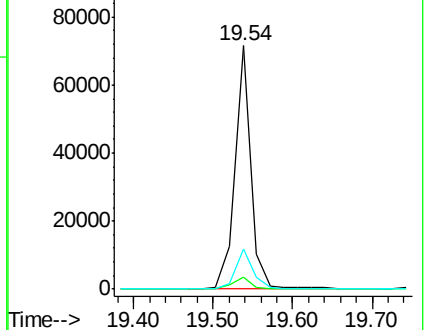
203 17.7 13.9 20.9

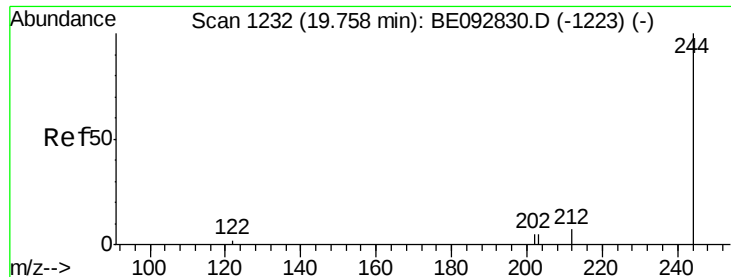


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

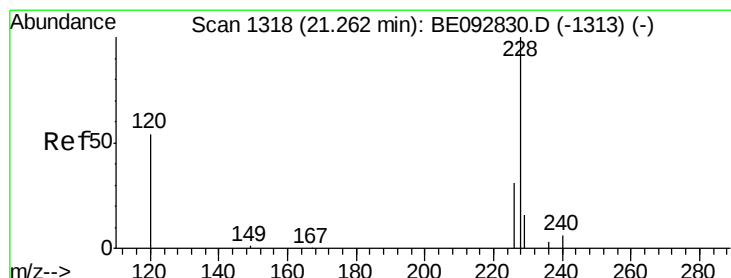
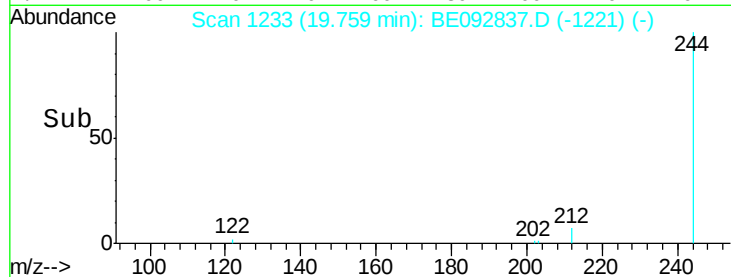
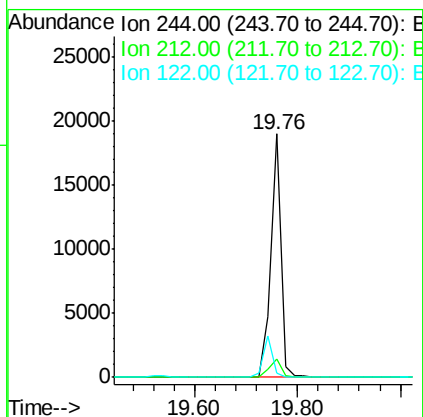
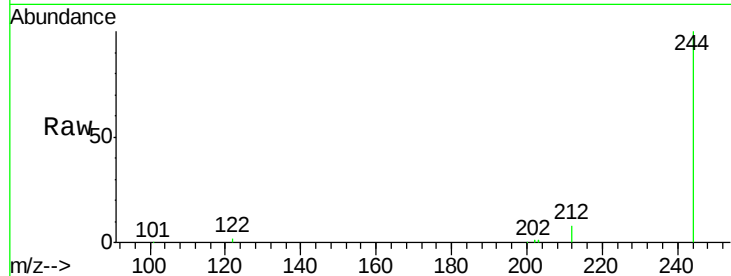




#26
 Terphenyl-d14
 Concen: 3.56 ng
 RT: 19.76 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: BE092837.D
 Acq: 28 Mar 2017 15:13

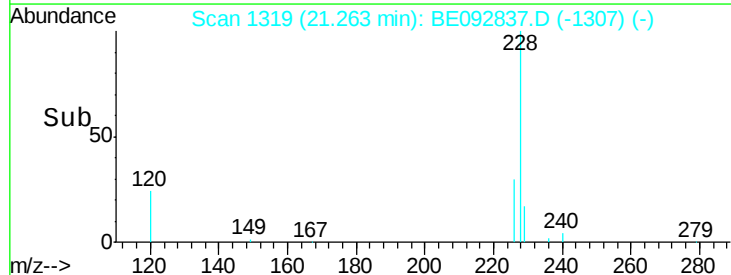
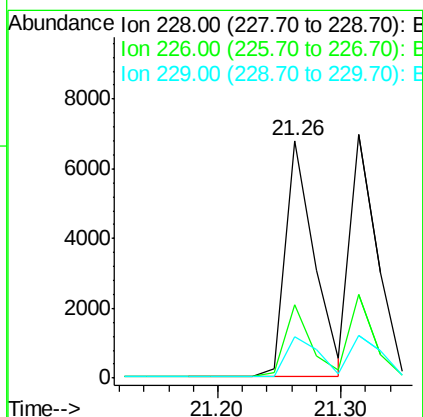
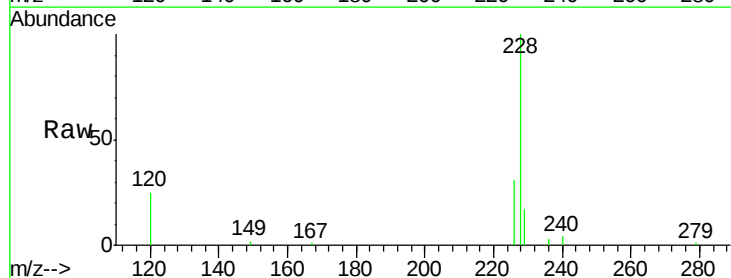
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

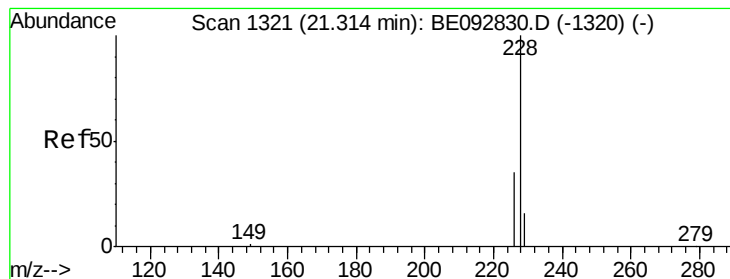
Tgt Ion: 244 Resp: 25186
 Ion Ratio Lower Upper
 244 100
 212 7.6 6.7 10.1
 122 1.9 3.6 5.4#



#27
 Benzo(a)anthracene
 Concen: 1.13 ng
 RT: 21.26 min Scan# 1319
 Delta R.T. 0.00 min
 Lab File: BE092837.D
 Acq: 28 Mar 2017 15:13

Tgt Ion: 228 Resp: 10933
 Ion Ratio Lower Upper
 228 100
 226 30.9 23.6 35.4
 229 17.3 13.3 19.9





#28

Chrysene

Concen: 1.03 ng

RT: 21.31 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

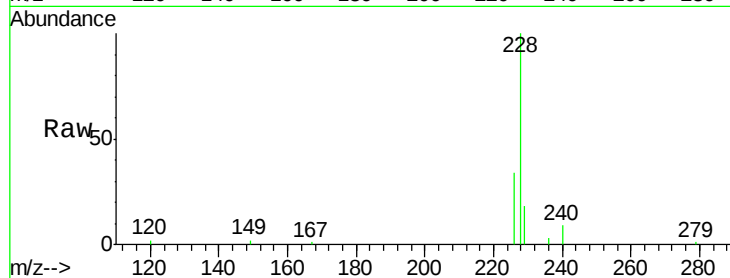
Tgt Ion: 228 Resp: 10576

Ion Ratio Lower Upper

228 100

226 34.5 36.3 54.5#

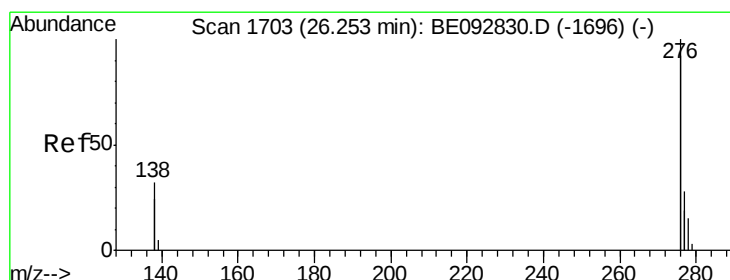
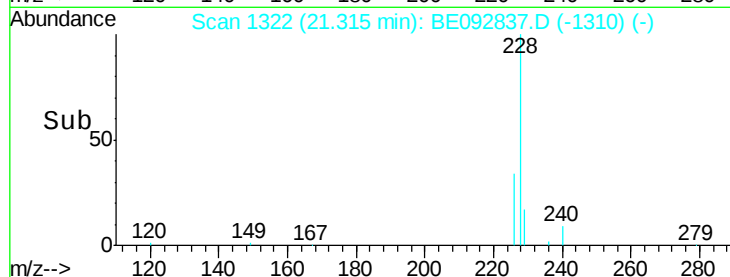
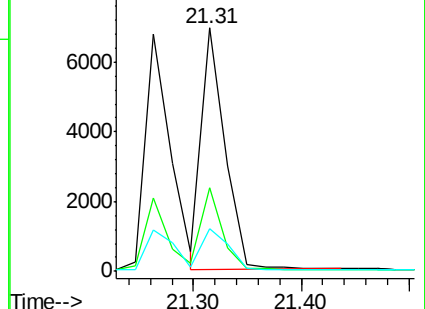
229 17.6 10.6 16.0#



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

Indeno(1,2,3-cd)pyrene

Concen: 3.12 ng

RT: 26.25 min Scan# 1704

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

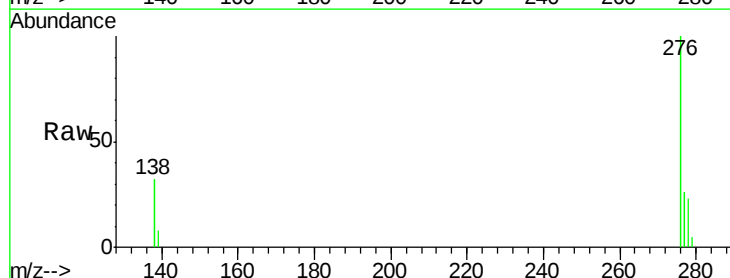
Tgt Ion: 276 Resp: 120085

Ion Ratio Lower Upper

276 100

138 34.9 20.3 30.5#

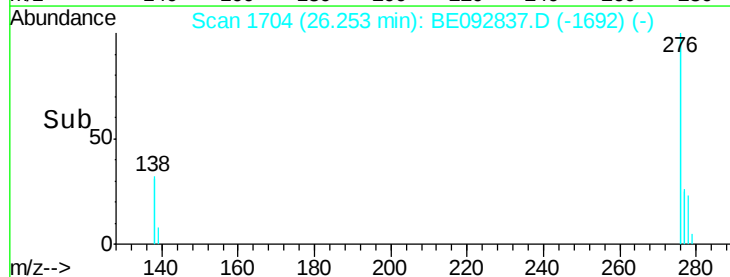
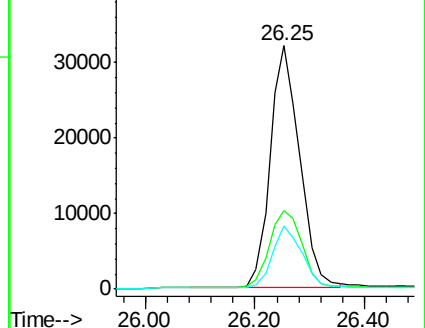
277 25.5 19.7 29.5

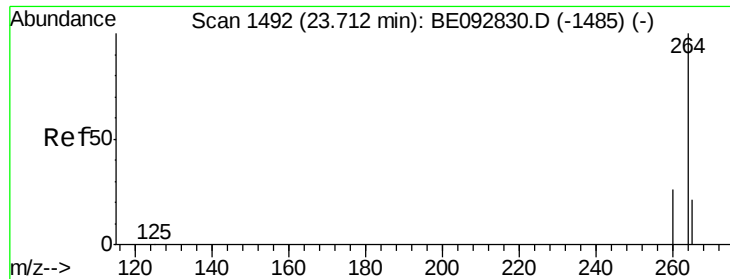


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#31

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1493

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

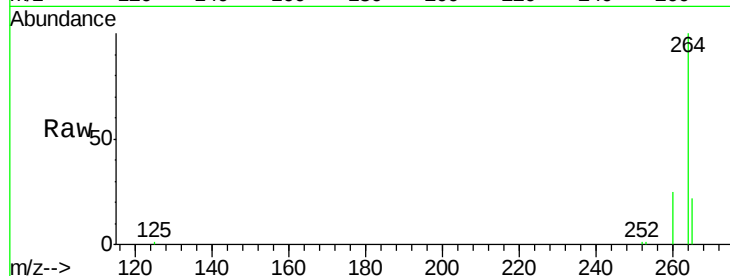
Tgt Ion:264 Resp: 38808

Ion Ratio Lower Upper

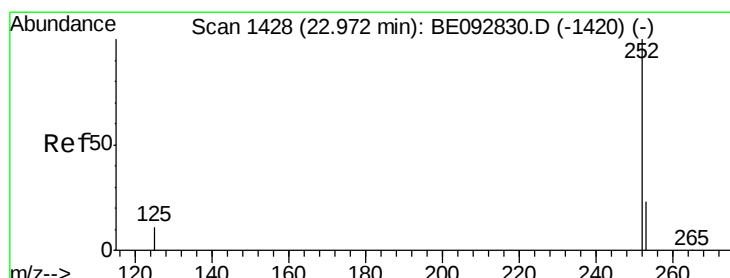
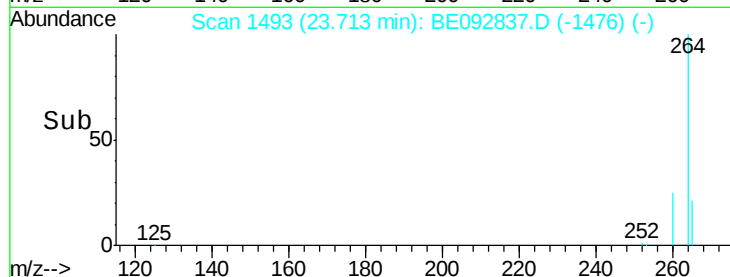
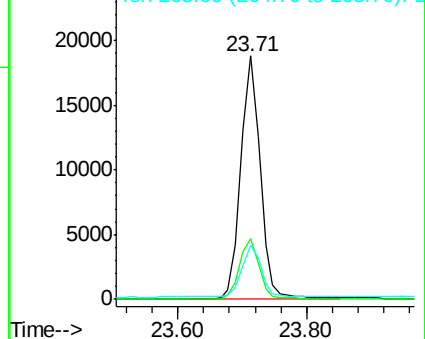
264 100

260 24.7 20.1 30.1

265 22.1 17.9 26.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#32

Benzo(b)fluoranthene

Concen: 0.68 ng

RT: 22.96 min Scan# 1428

Delta R.T. -0.01 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

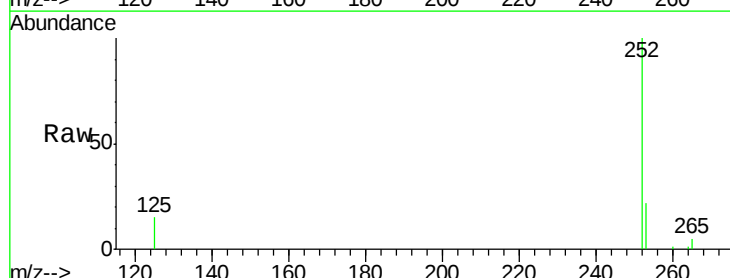
Tgt Ion:252 Resp: 7057

Ion Ratio Lower Upper

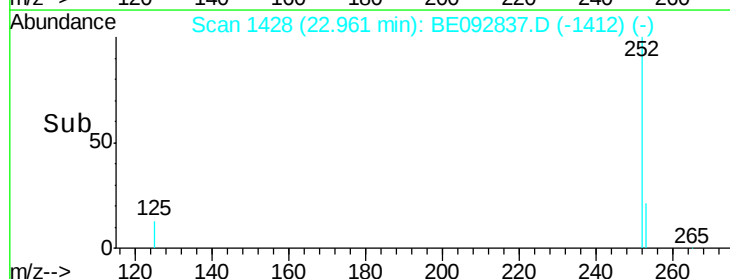
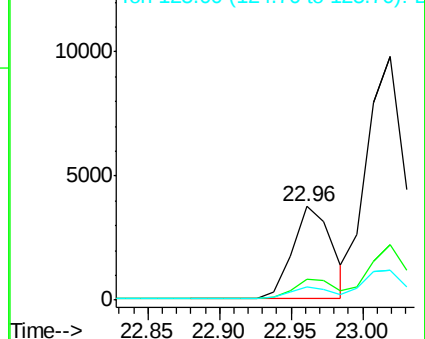
252 100

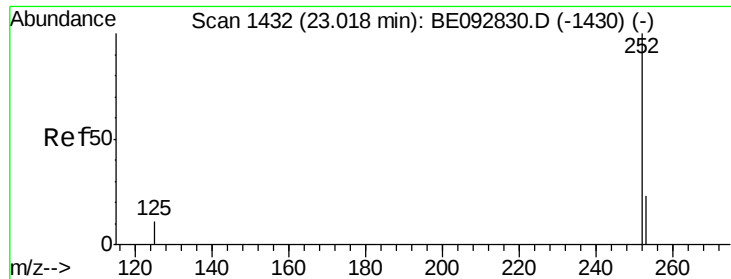
253 22.5 18.7 28.1

125 14.7 10.5 15.7



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#33

Benzo(k)fluoranthene

Concen: 1.97 ng

RT: 23.02 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

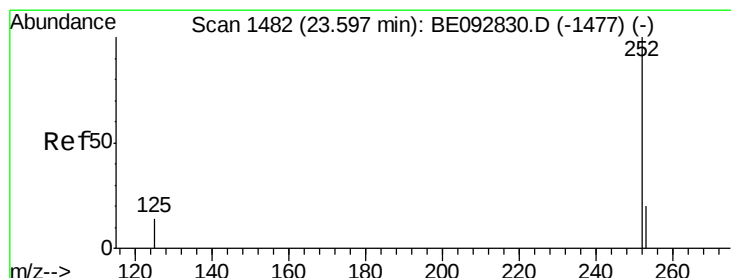
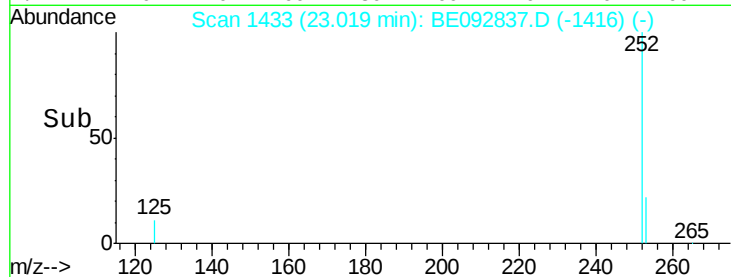
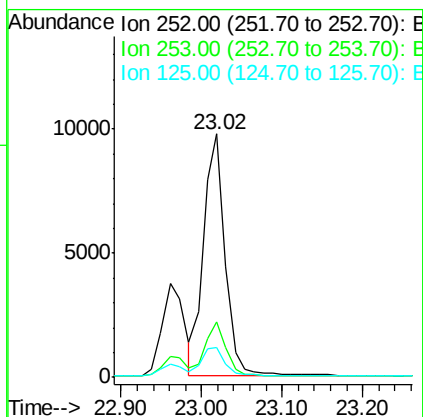
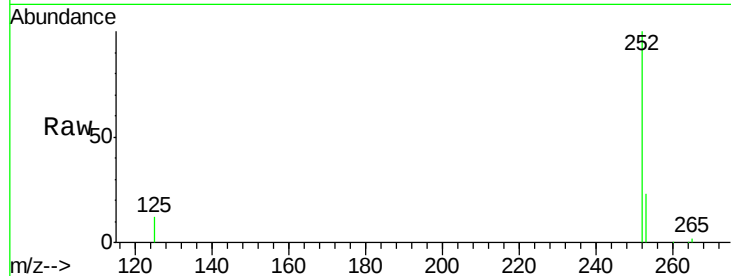
Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

Tgt Ion:	252	Resp:	18197
Ion	Ratio	Lower	Upper
252	100		
253	22.6	20.3	30.5
125	12.2	9.6	14.4



#34

Benzo(a)pyrene

Concen: 3.21 ng

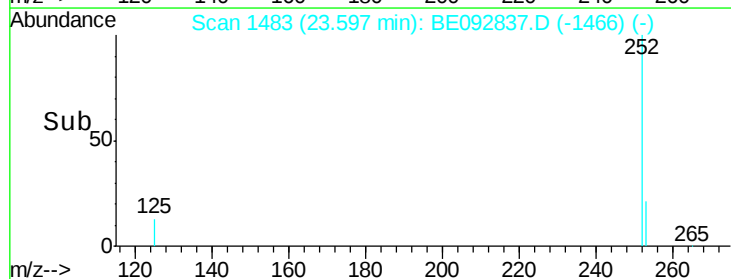
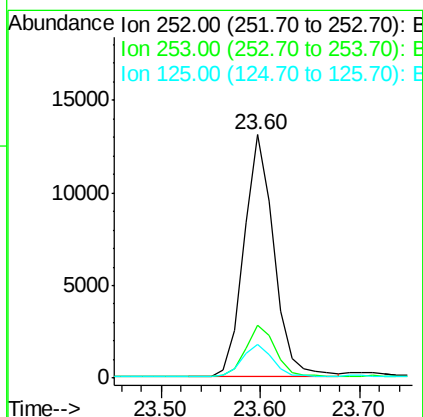
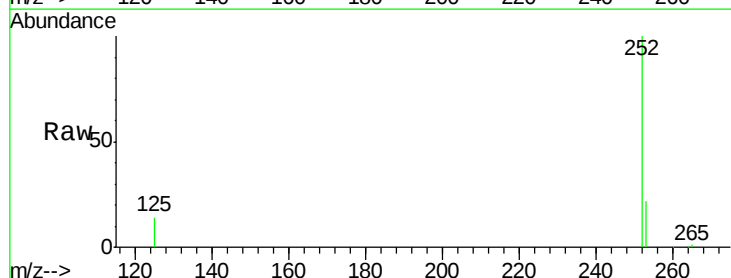
RT: 23.60 min Scan# 1483

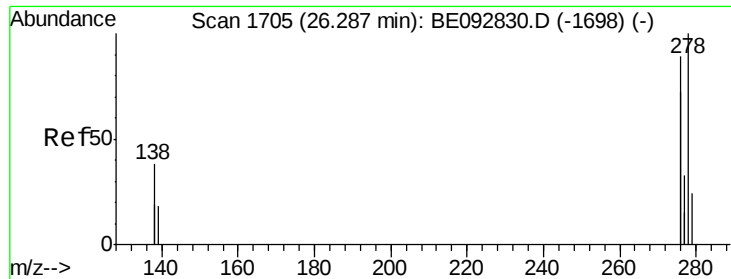
Delta R.T. 0.00 min

Lab File: BE092837.D

Acq: 28 Mar 2017 15:13

Tgt Ion:	252	Resp:	27435
Ion	Ratio	Lower	Upper
252	100		
253	21.9	19.0	28.6
125	14.0	11.8	17.8



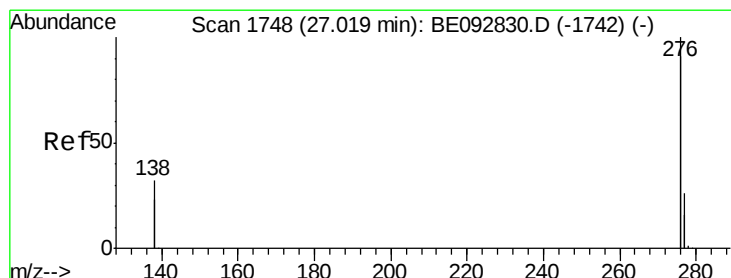
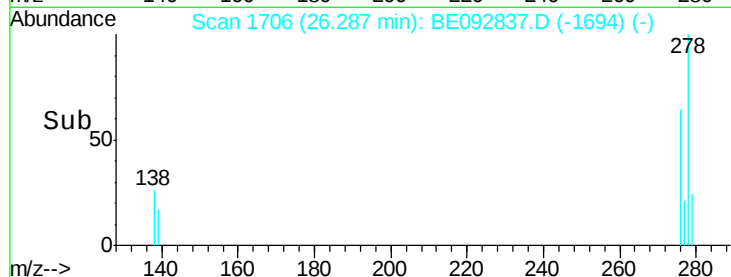
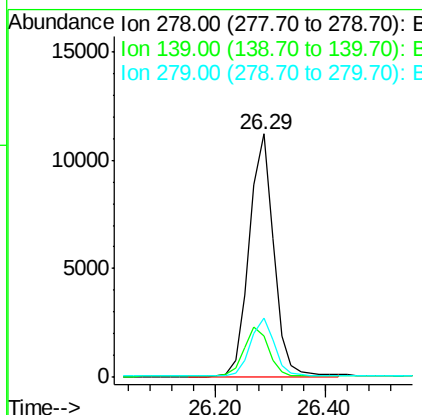
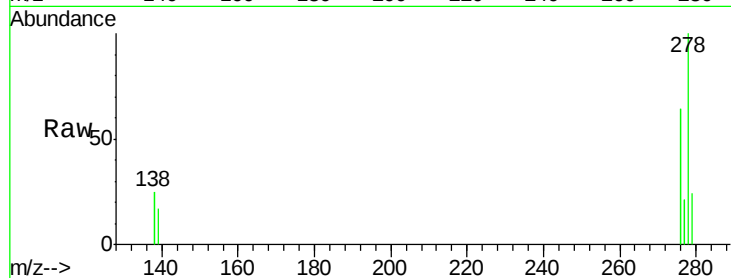


#35
Dibenzo(a,h)anthracene
Concen: 3.82 ng
RT: 26.29 min Scan# 1706
Delta R.T. 0.00 min
Lab File: BE092837.D
Acq: 28 Mar 2017 15:13

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tgt Ion: 278 Resp: 34705

Ion	Ratio	Lower	Upper
278	100		
139	16.9	13.8	20.8
279	24.3	21.4	32.2



#36
Benzo(g,h,i)perylene
Concen: 0.79 ng
RT: 27.04 min Scan# 1750
Delta R.T. 0.02 min
Lab File: BE092837.D
Acq: 28 Mar 2017 15:13

Tgt Ion: 276 Resp: 29581

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.8	29.8
138	26.0	19.8	29.6

