

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050517\
 Data File : BE092939.D
 Acq On : 5 May 2017 21:04
 Operator : SJ/MA
 Sample : I2893-02
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 06 01:49:18 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	785	0.40	ng	0.00
7) Naphthalene-d8	10.52	136	3247	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	1384	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	3876	0.40	ng	0.00
26) Chrysene-d12	21.28	240	4141	0.40	ng	0.00
33) Perylene-d12	23.69	264	1237	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.35	112	368	0.21	ng	0.00
5) Phenol-d6	6.94	99	300	0.12	ng	0.00
8) Nitrobenzene-d5	8.90	82	860	0.39	ng	0.00
11) 2-Methylnaphthalene-d10	12.13	152	1895	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.87	330	110	0.51	ng	0.00
15) 2-Fluorobiphenyl	13.01	172	3581	0.56	ng	0.00
24) Fluoranthene-d10	19.15	212	4261	0.47	ng	0.00
28) Terphenyl-d14	19.73	244	6121	0.85	ng	0.00

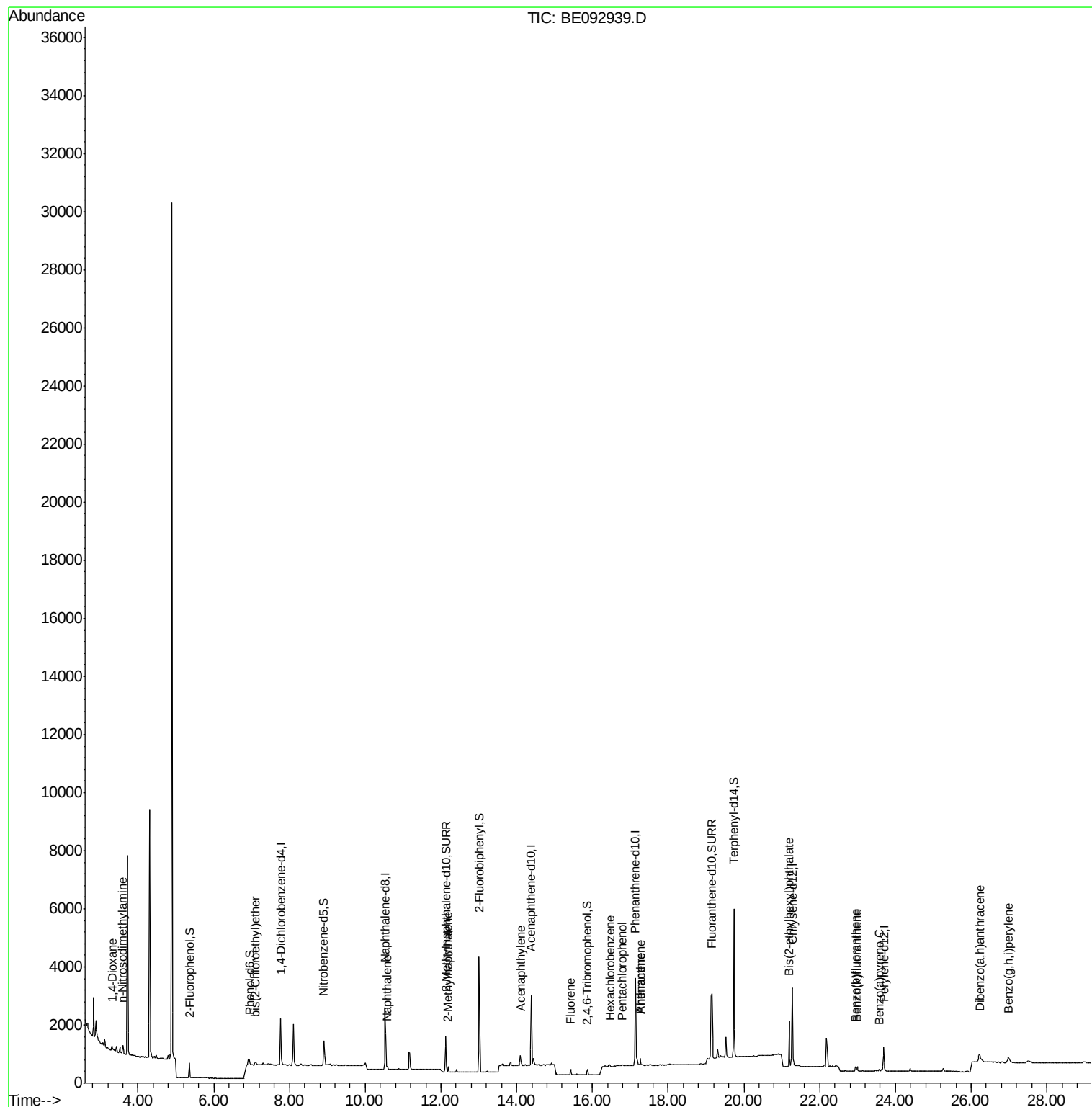
Target Compounds						Qvalue
2) 1,4-Dioxane	3.32	88	141	0.09	ng	# 70
3) n-Nitrosodimethylamine	3.60	42	37	0.03	ng	# 13
6) bis(2-Chloroethyl)ether	7.11	93	354	0.12	ng	# 20
9) Naphthalene	10.58	128	186	0.02	ng	# 52
12) 2-Methylnaphthalene	12.19	142	142	0.03	ng	# 94
16) Acenaphthylene	14.10	152	513	0.02	ng	# 87
18) Fluorene	15.43	166	110	0.02	ng	# 94
20) Hexachlorobenzene	16.46	284	72	0.04	ng	# 100
21) Pentachlorophenol	16.79	266	22	0.20	ng	98
22) Phenanthrene	17.27	178	328	0.03	ng	96
23) Anthracene	17.27	178	351	0.04	ng	# 90
31) Bis(2-ethylhexyl)phthalate	21.20	149	1521	0.57	ng	# 99
34) Benzo(b)fluoranthene	22.95	252	205	0.05	ng	# 50
35) Benzo(k)fluoranthene	22.99	252	160	0.04	ng	# 20
36) Benzo(a)pyrene	23.57	252	81	0.02	ng	# 17
37) Dibenzo(a,h)anthracene	26.24	278	110	0.03	ng	# 35
38) Benzo(a,h,i)perylene	26.99	276	466	0.03	ng	# 45

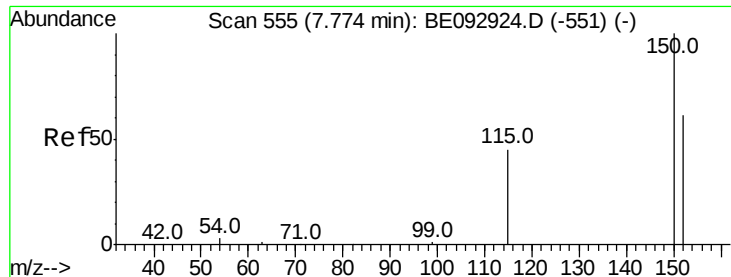
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

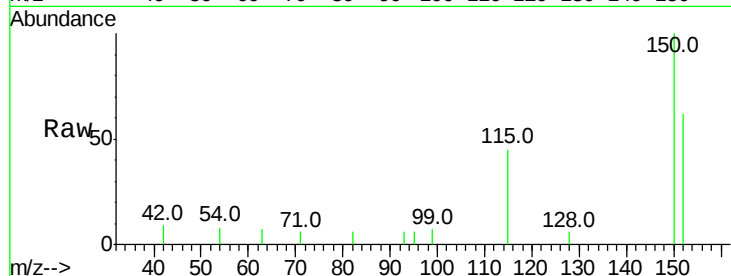
Tot Ion:152 Resp: 785

Ion Ratio Lower Upper

152 100

150 162.3 129.9 194.9

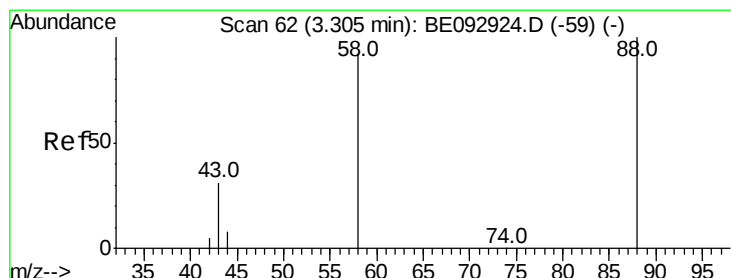
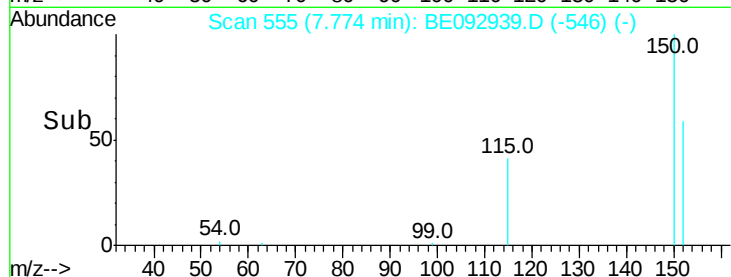
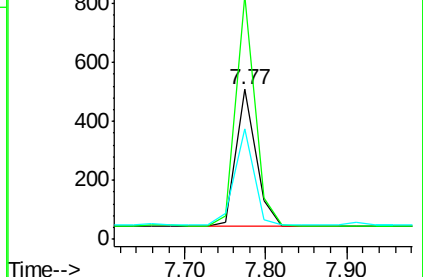
115 73.5 62.6 93.8



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



#2

1,4-Dioxane

Concen: 0.09 ng

RT: 3.32 min Scan# 63

Delta R.T. 0.01 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

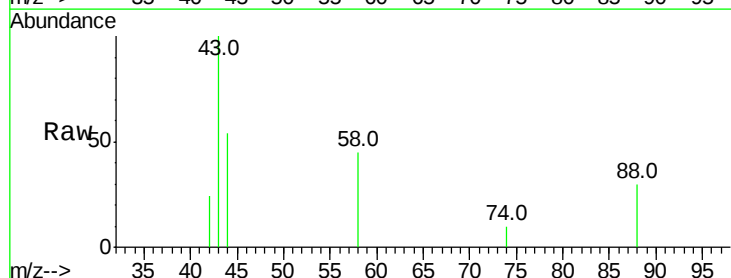
Tgt Ion: 88 Resp: 141

Ion Ratio Lower Upper

88 100

58 74.5 64.9 97.3

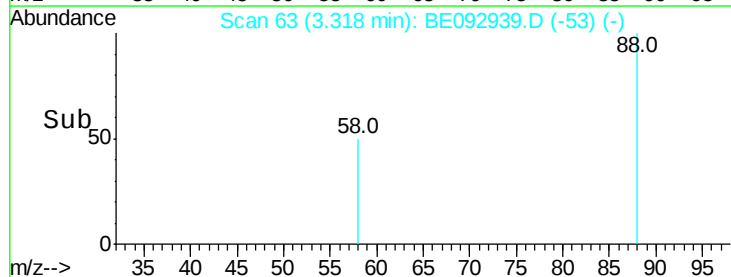
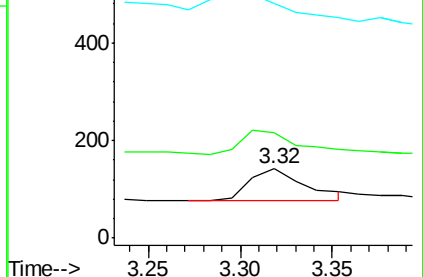
43 80.9 26.6 40.0#

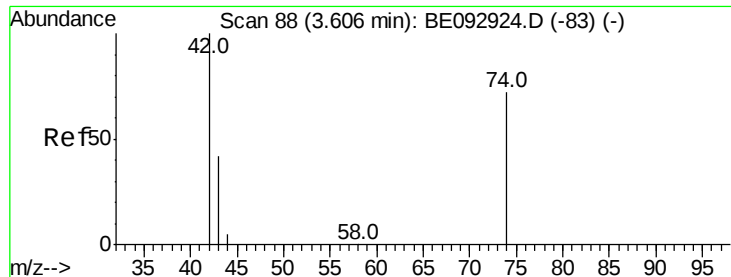


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.03 ng

RT: 3.60 min Scan# 87

Delta R.T. -0.01 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

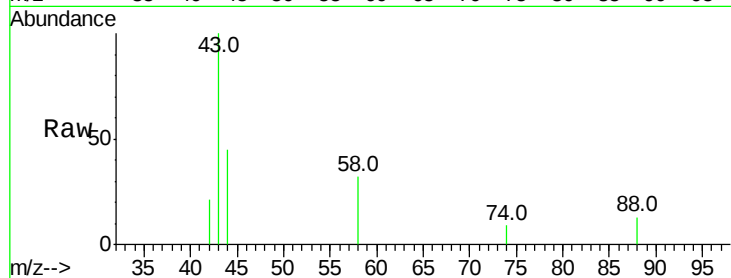
Tot Ion: 42 Resp: 37

Ion Ratio Lower Upper

42 100

74 16.2 106.6 160.0#

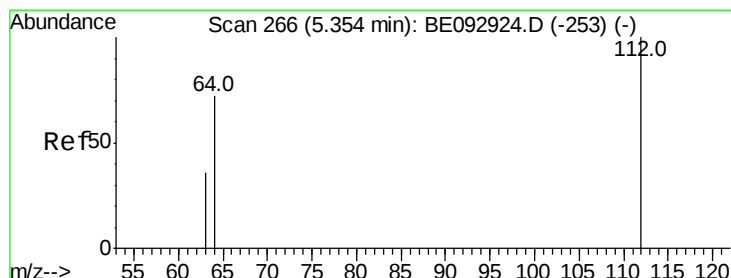
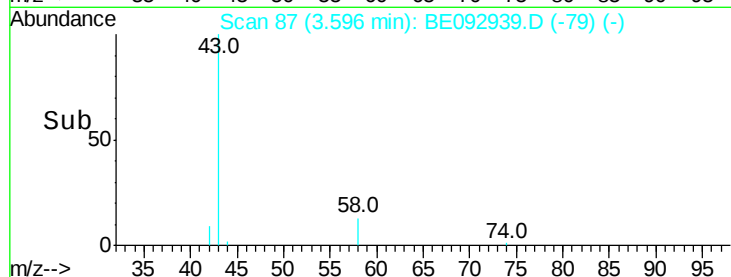
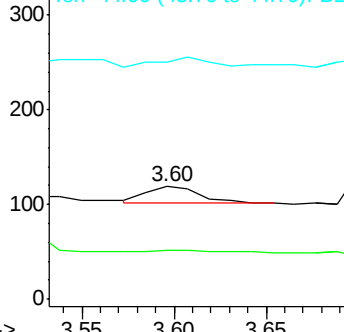
44 54.1 25.7 38.5#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.21 ng

RT: 5.35 min Scan# 266

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

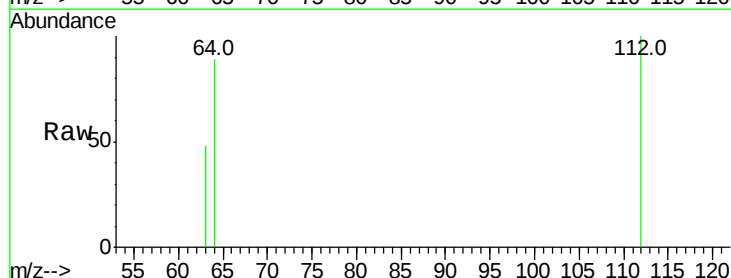
Tgt Ion: 112 Resp: 368

Ion Ratio Lower Upper

112 100

64 70.7 52.6 79.0

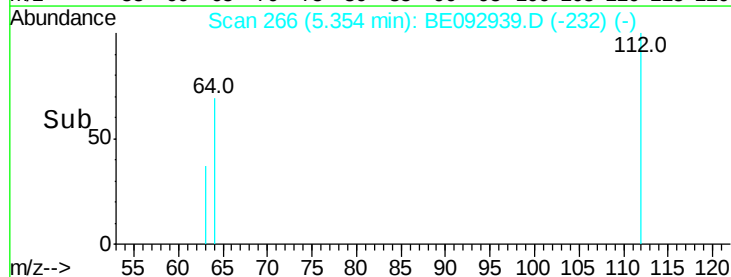
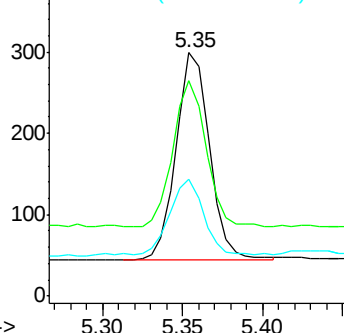
63 36.4 29.0 43.4

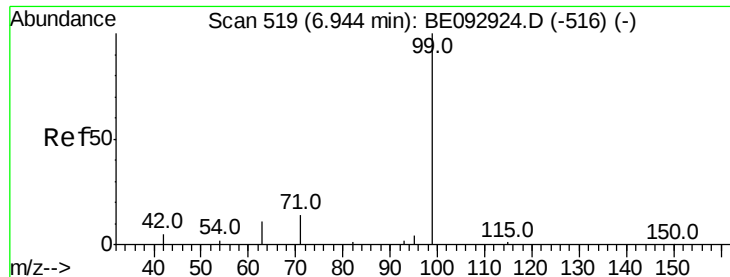


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.12 ng

RT: 6.94 min Scan# 519

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampled :

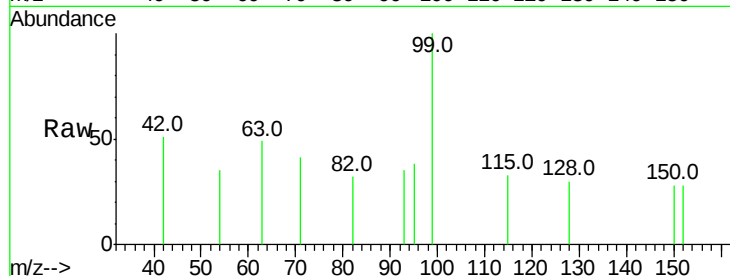
Tot Ion: 99 Resp: 300

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

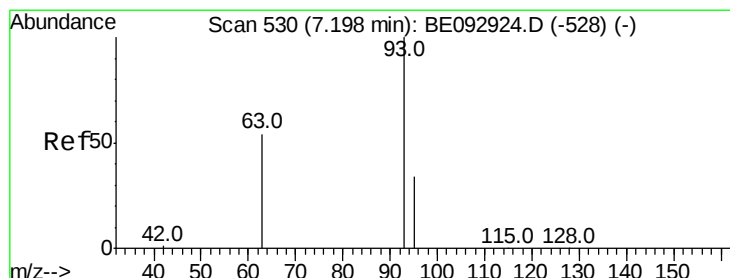
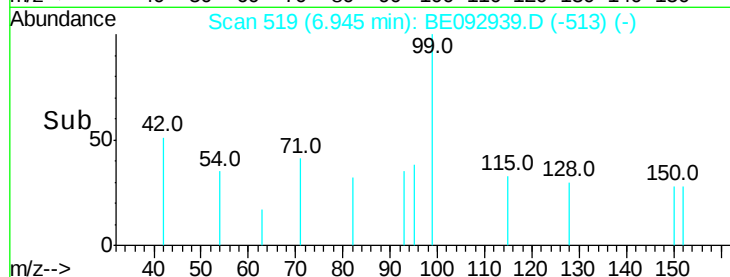
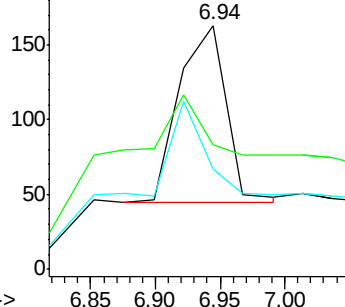
71 0.0 0.0 0.0



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: 0.12 ng

RT: 7.11 min Scan# 526

Delta R.T. -0.09 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

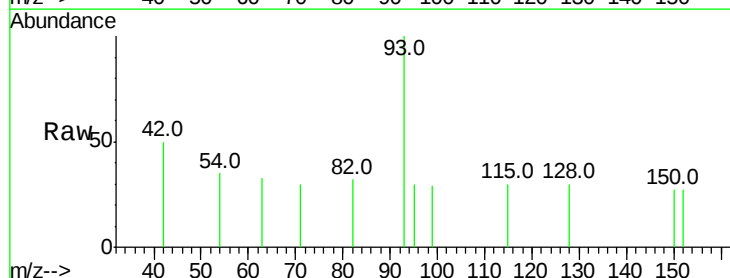
Tgt Ion: 93 Resp: 354

Ion Ratio Lower Upper

93 100

63 0.0 61.2 91.8#

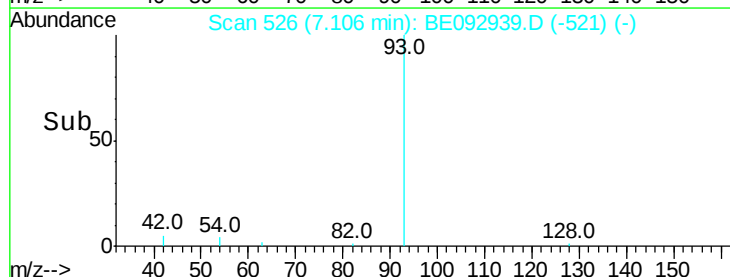
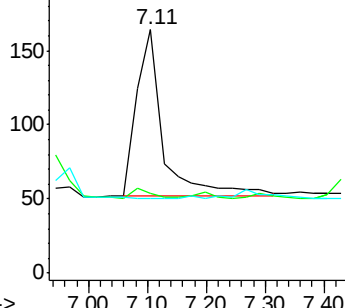
95 0.0 25.5 38.3#

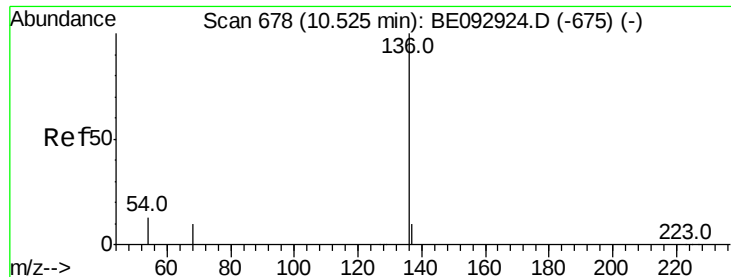


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.52 min Scan# 678

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 3247

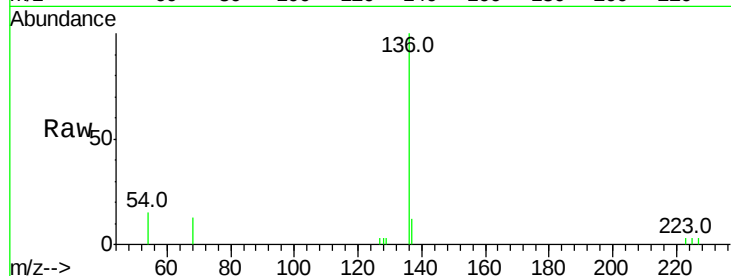
Ion Ratio Lower Upper

136 100

137 12.5 10.4 15.6

54 15.2 12.6 18.8

68 13.2 10.7 16.1

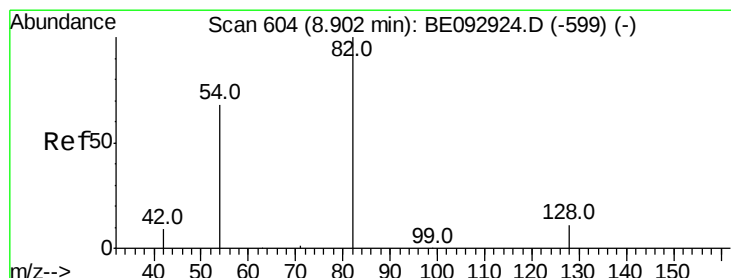
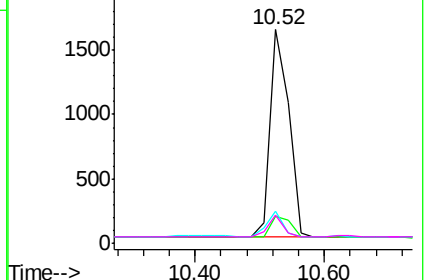
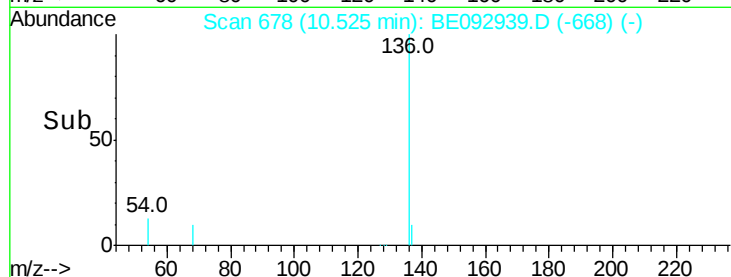


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.39 ng

RT: 8.90 min Scan# 604

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

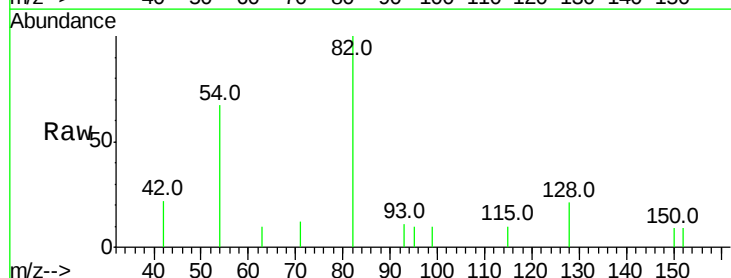
Tgt Ion: 82 Resp: 860

Ion Ratio Lower Upper

82 100

128 21.0 35.3 52.9#

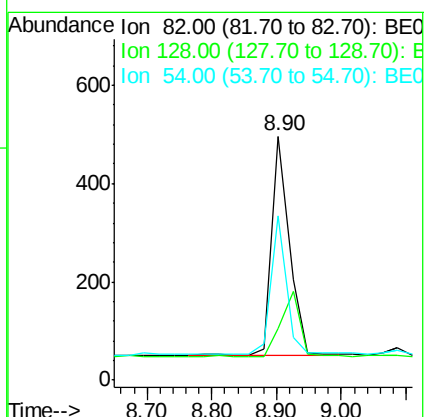
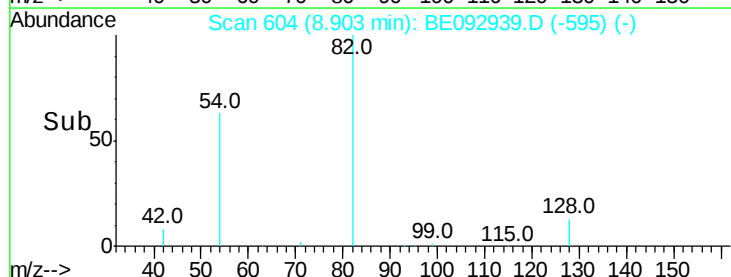
54 67.3 65.1 97.7

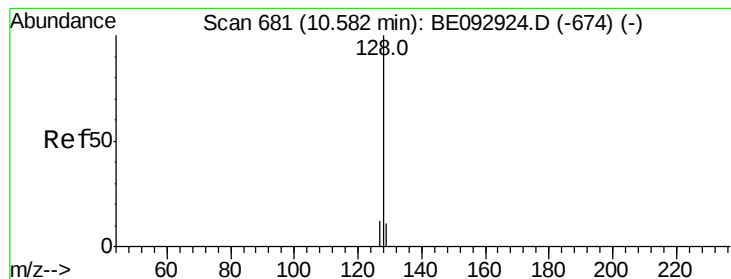


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.02 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

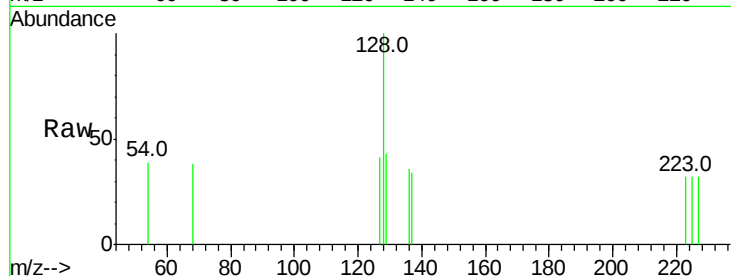
Tot Ion:128 Resp: 186

Ion Ratio Lower Upper

128 100

129 42.8 15.8 23.8#

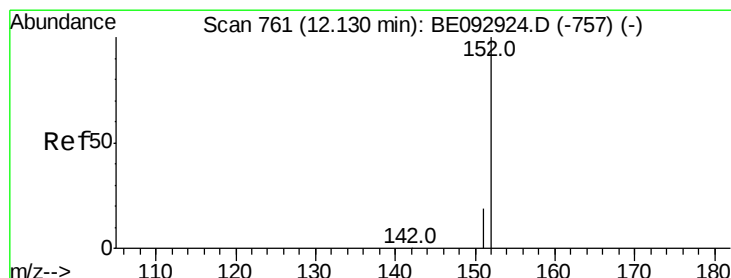
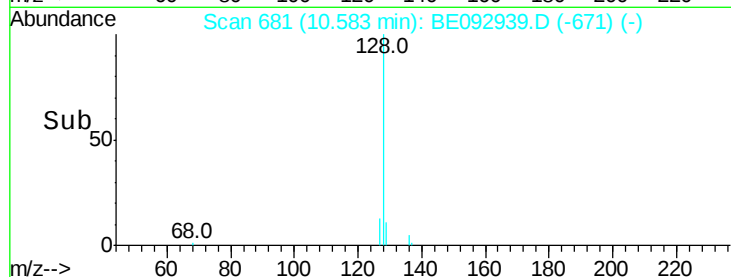
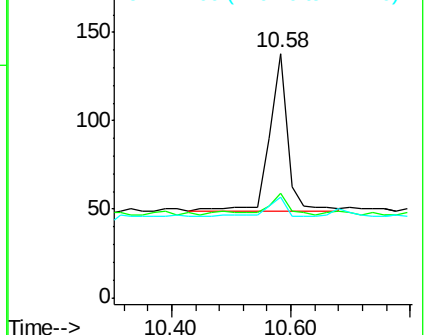
127 41.3 16.0 24.0#



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



#11

2-Methylnaphthalene-d10

Concen: 0.39 ng

RT: 12.13 min Scan# 761

Delta R.T. -0.00 min

Lab File: BE092939.D

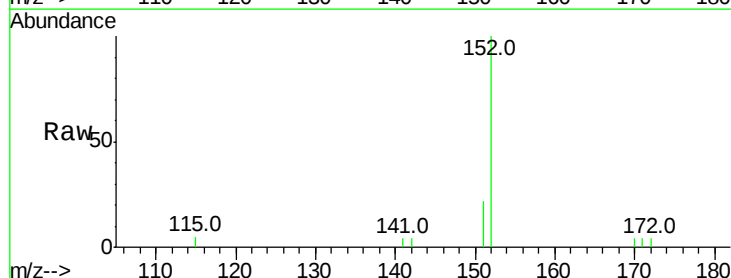
Acq: 5 May 2017 21:04

Tgt Ion:152 Resp: 1895

Ion Ratio Lower Upper

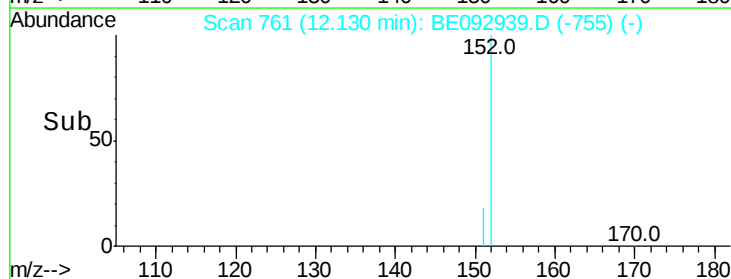
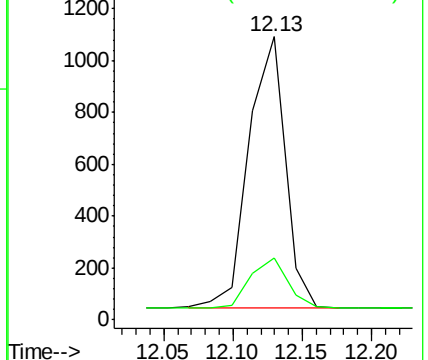
152 100

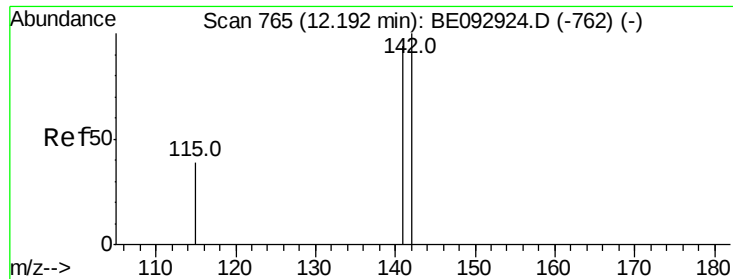
151 19.1 15.7 23.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

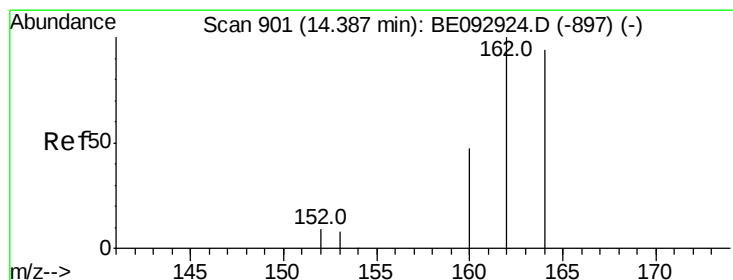
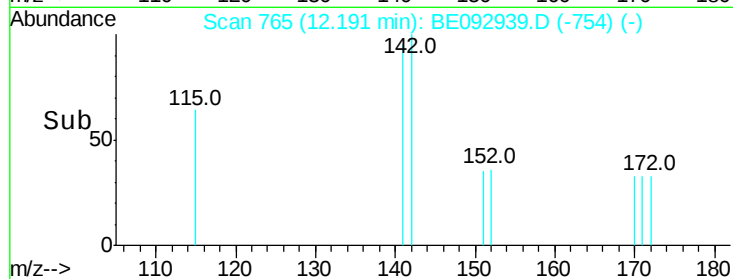
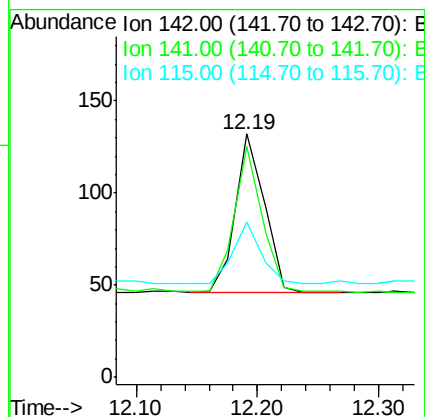
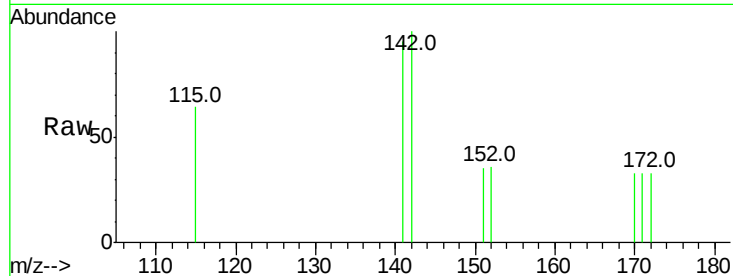




#12
2-Methylnaphthalene
Concen: 0.03 ng
RT: 12.19 min Scan# 765
Delta R.T. -0.00 min
Lab File: BE092939.D
Acq: 5 May 2017 21:04

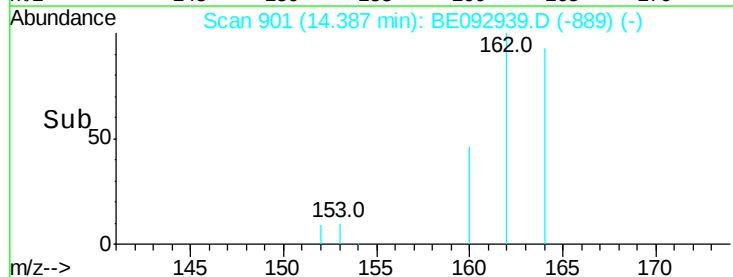
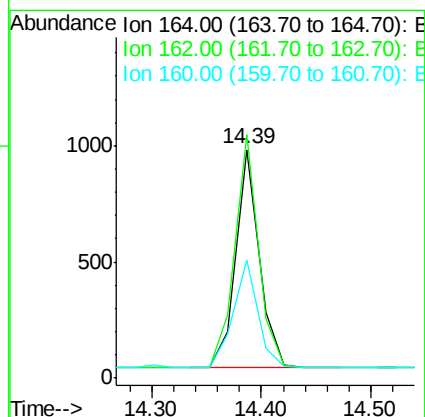
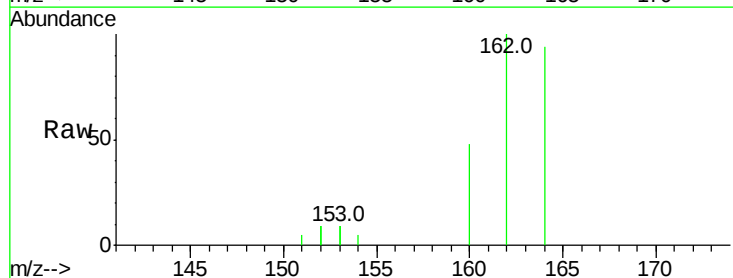
Instrument :
BNA_E
ClientSampleId :

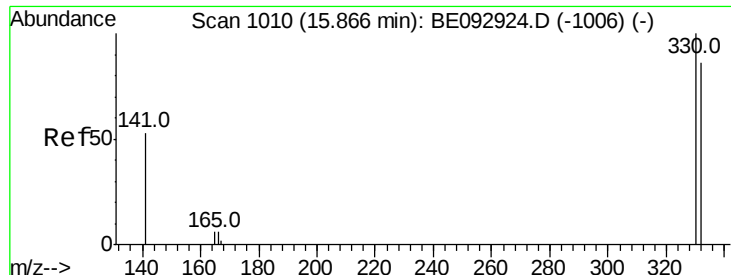
Tot Ion:142 Resp: 142
Ion Ratio Lower Upper
142 100
141 94.7 76.0 114.0
115 63.6 41.6 62.4#



#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.39 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE092939.D
Acq: 5 May 2017 21:04

Tgt Ion:164 Resp: 1384
Ion Ratio Lower Upper
164 100
162 106.5 86.6 130.0
160 51.6 44.5 66.7

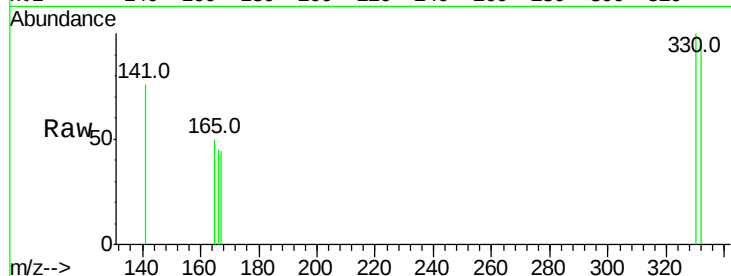




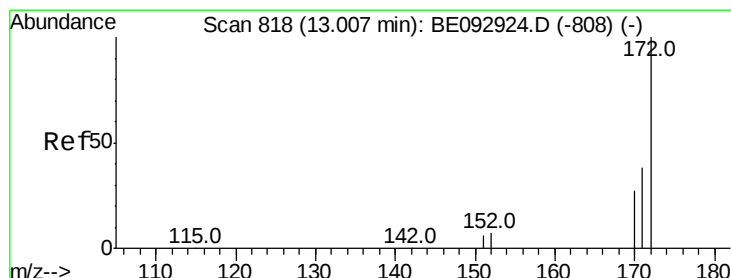
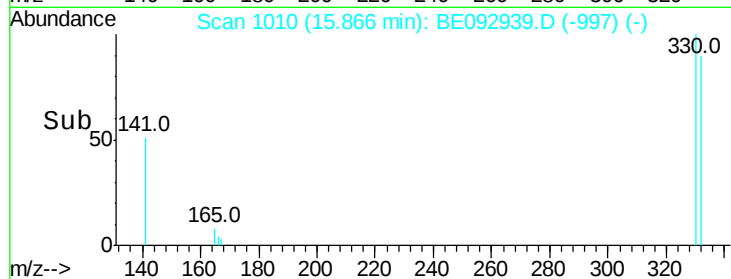
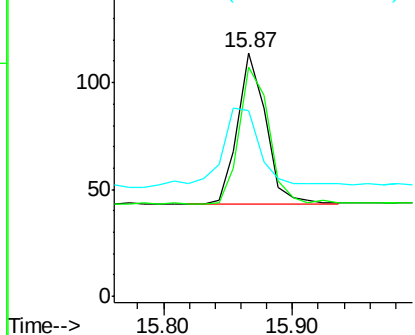
#14
 2,4,6-Tribromophenol
 Concen: 0.51 ng
 RT: 15.87 min Scan# 1010
 Delta R.T. 0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:330 Resp: 110
 Ion Ratio Lower Upper
 330 100
 332 96.4 69.1 103.7
 141 75.5 54.6 81.8

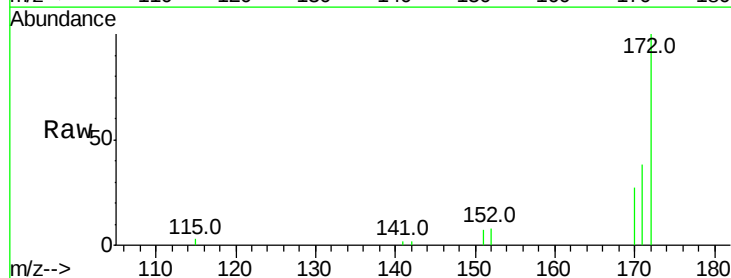


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

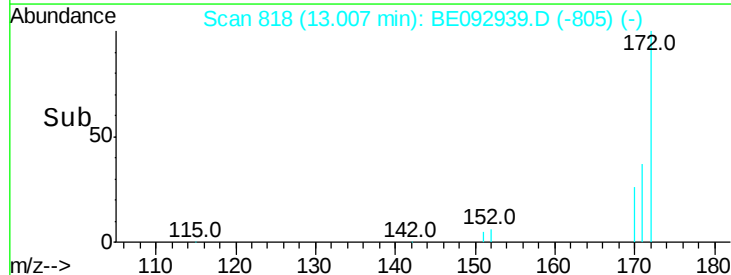
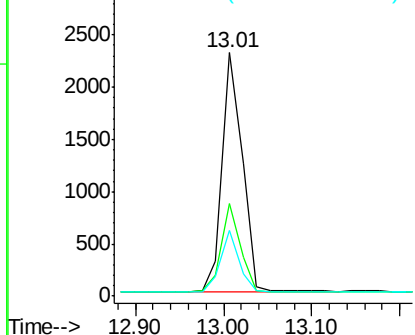


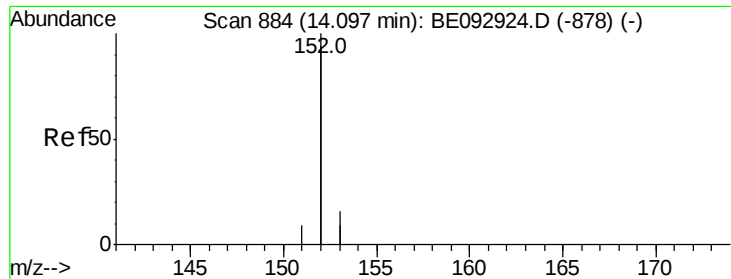
#15
 2-Fluorobiphenyl
 Concen: 0.56 ng
 RT: 13.01 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Tgt Ion:172 Resp: 3581
 Ion Ratio Lower Upper
 172 100
 171 37.9 35.8 53.6
 170 27.2 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: 0.02 ng

RT: 14.10 min Scan# 884

Delta R.T. -0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

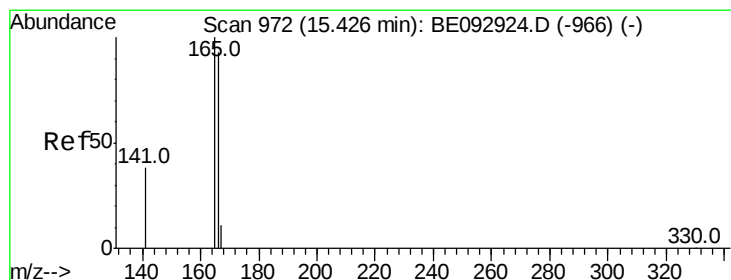
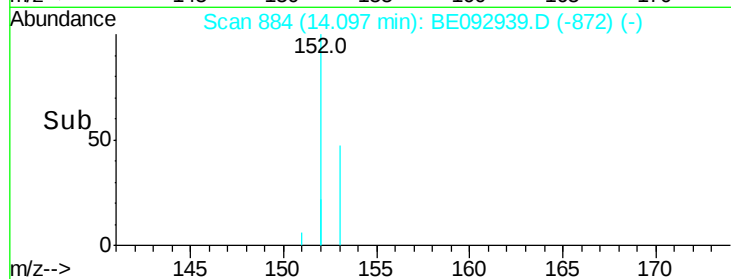
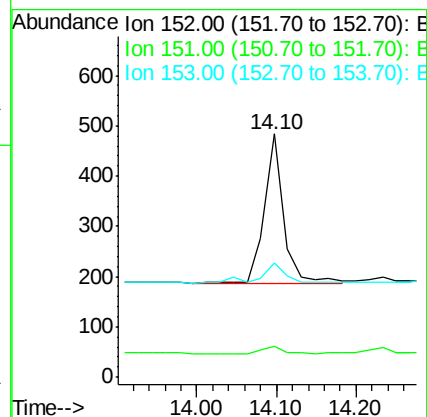
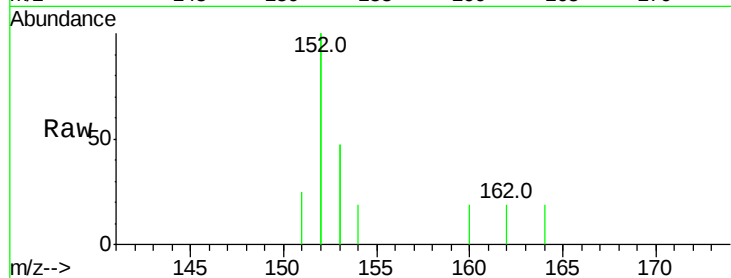
Tot Ion:152 Resp: 513

Ion Ratio Lower Upper

152 100

151 4.7 3.8 5.8

153 19.5 10.0 15.0#



#18

Fluorene

Concen: 0.02 ng

RT: 15.43 min Scan# 972

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

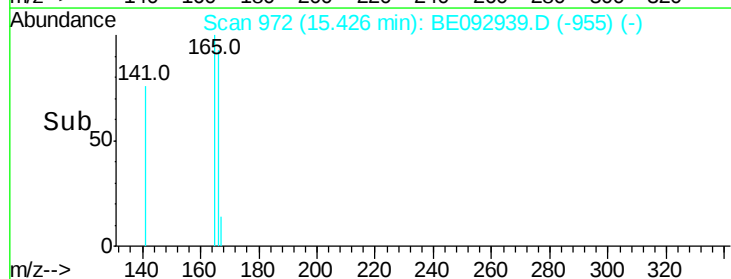
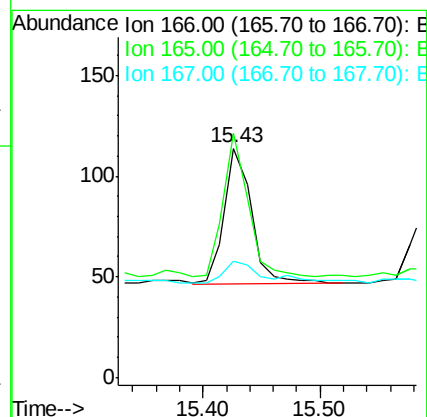
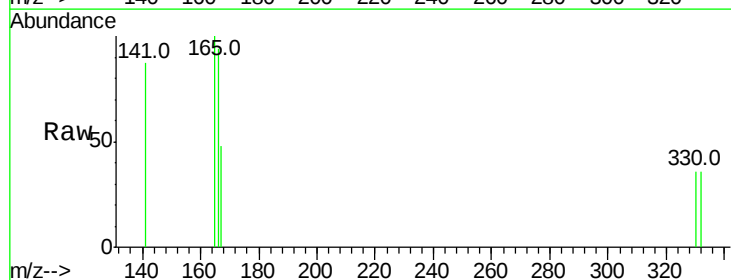
Tgt Ion:166 Resp: 110

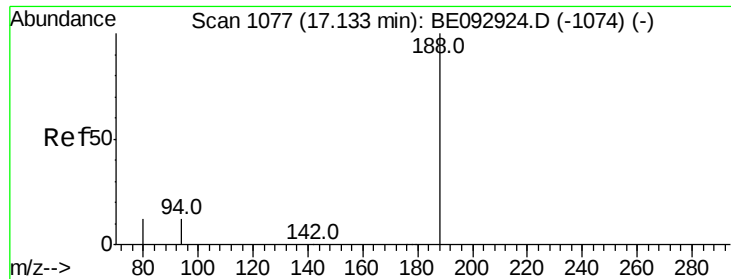
Ion Ratio Lower Upper

166 100

165 95.5 80.7 121.1

167 17.3 11.3 16.9#





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1077

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

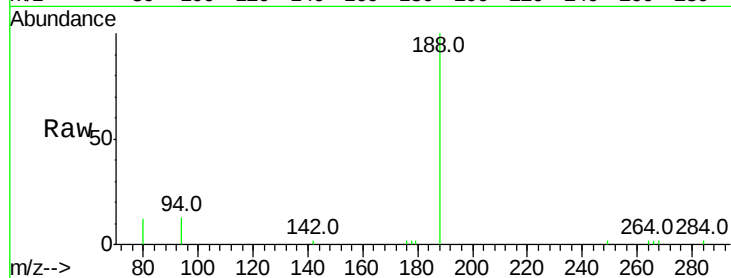
Tot Ion:188 Resp: 3876

Ion Ratio Lower Upper

188 100

94 12.7 10.2 15.4

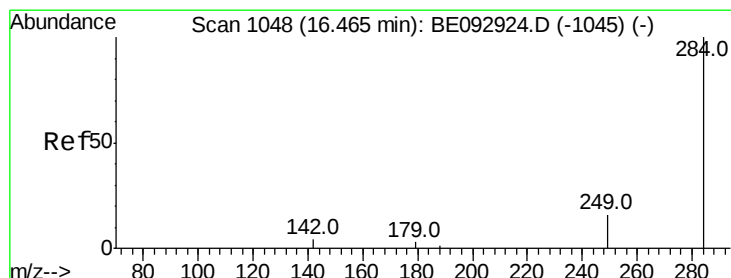
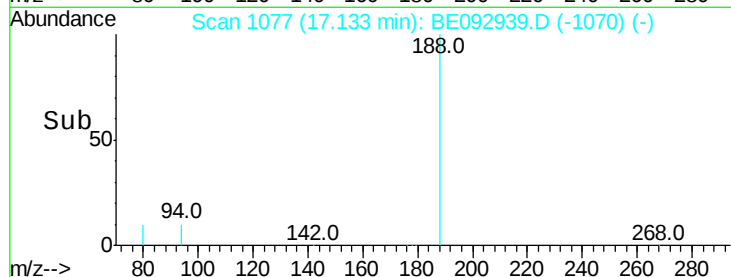
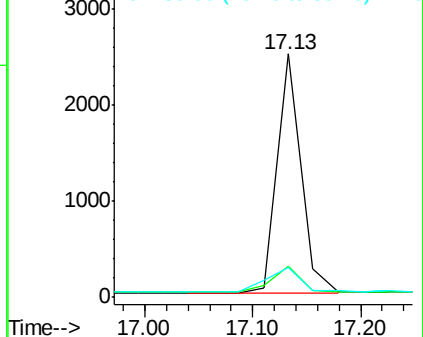
80 12.3 10.6 15.8



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: 0.04 ng

RT: 16.46 min Scan# 1048

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

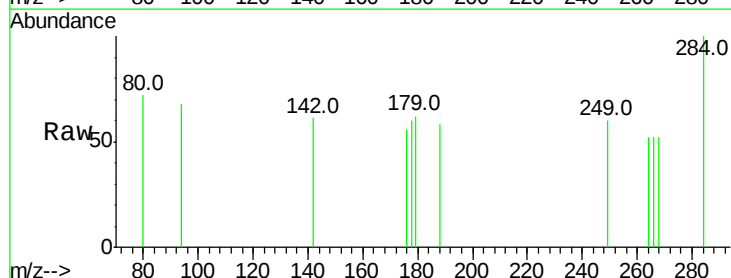
Tgt Ion:284 Resp: 72

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

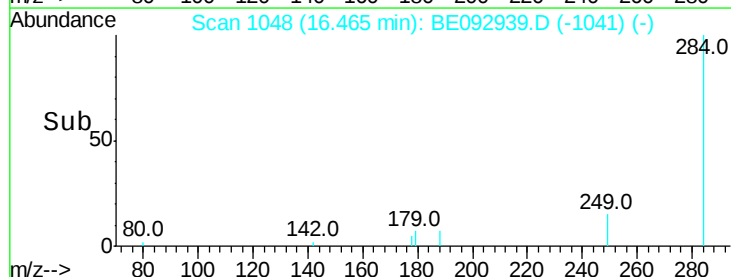
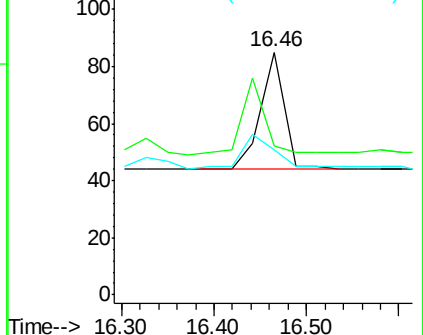
249 0.0 0.0 0.0

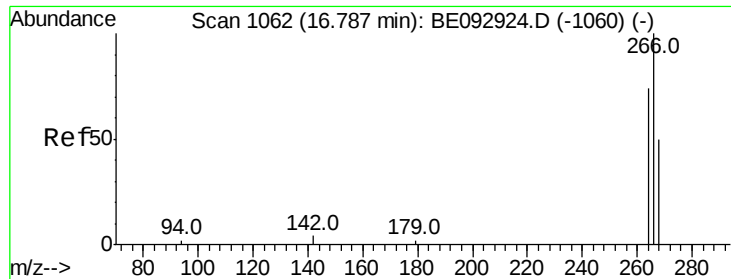


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

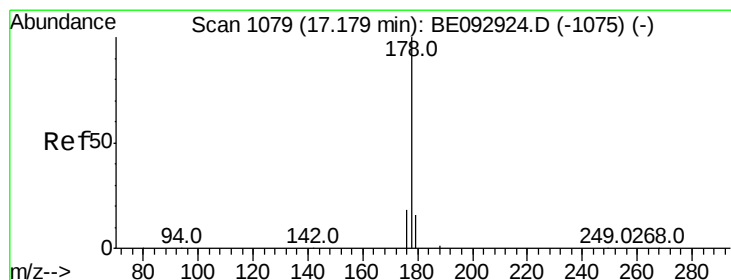
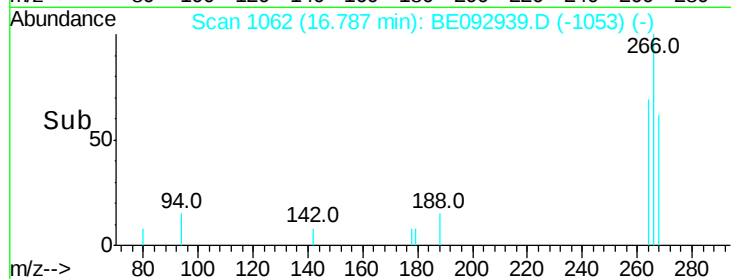
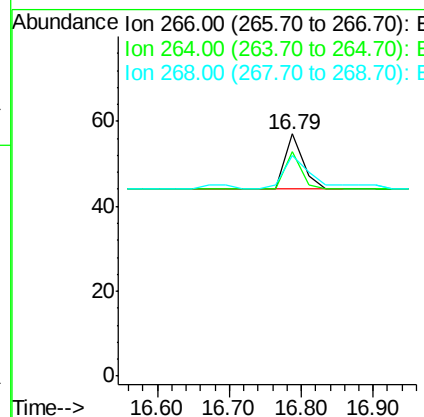
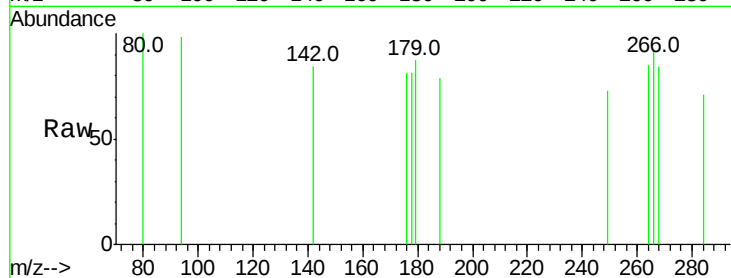




#21
 Pentachlorophenol
 Concen: 0.20 ng
 RT: 16.79 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

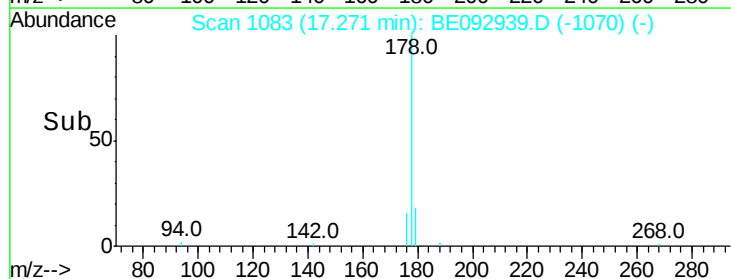
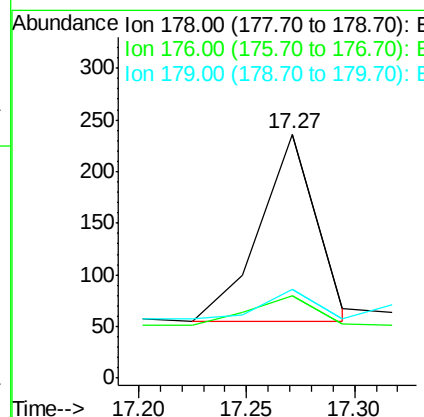
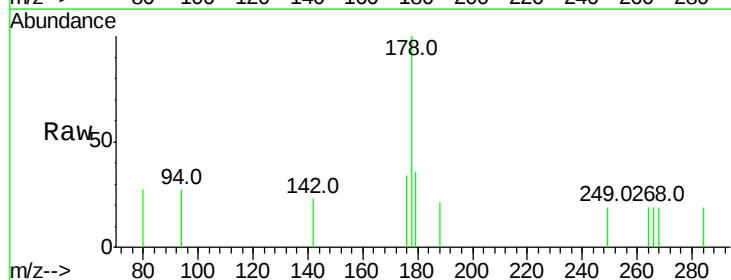
Instrument :
 BNA_E
 ClientSampleId :

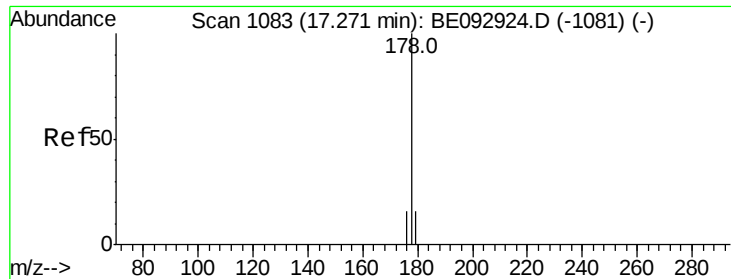
Tot Ion:266 Resp: 22
 Ion Ratio Lower Upper
 266 100
 264 93.0 75.4 113.2
 268 91.2 75.4 113.2



#22
 Phenanthrene
 Concen: 0.03 ng
 RT: 17.27 min Scan# 1083
 Delta R.T. 0.09 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Tgt Ion:178 Resp: 328
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.2 21.4
 179 14.0 13.6 20.4





#23

Anthracene

Concen: 0.04 ng

RT: 17.27 min Scan# 1083

Delta R.T. 0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

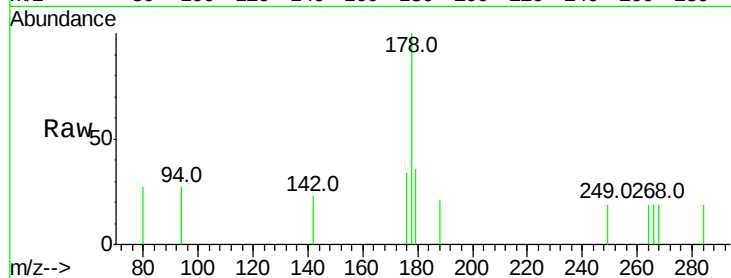
Tot Ion:178 Resp: 351

Ion Ratio Lower Upper

178 100

176 17.4 14.7 22.1

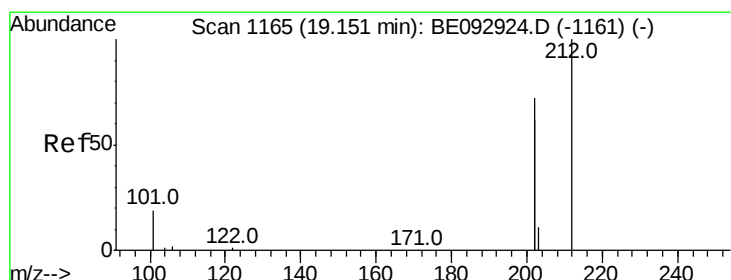
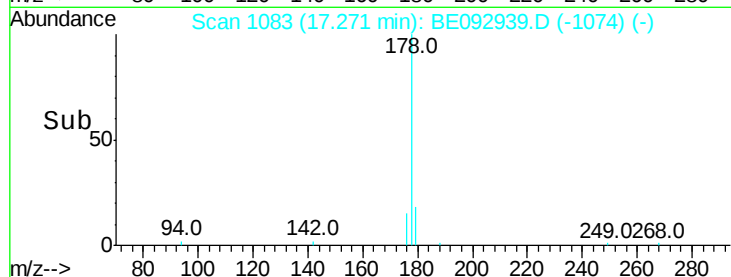
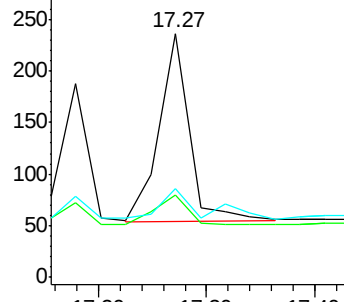
179 23.9 12.8 19.2#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Fluoranthene-d10

Concen: 0.47 ng

RT: 19.15 min Scan# 1164

Delta R.T. -0.00 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

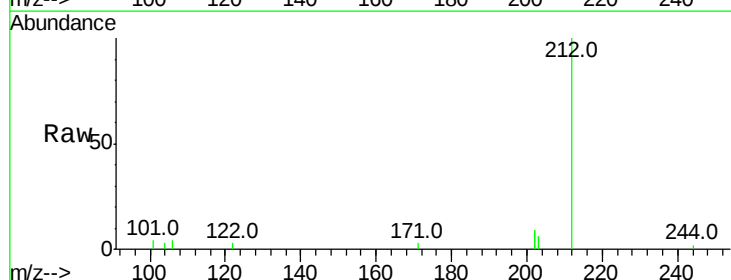
Tgt Ion:212 Resp: 4261

Ion Ratio Lower Upper

212 100

106 0.0 0.0 0.0

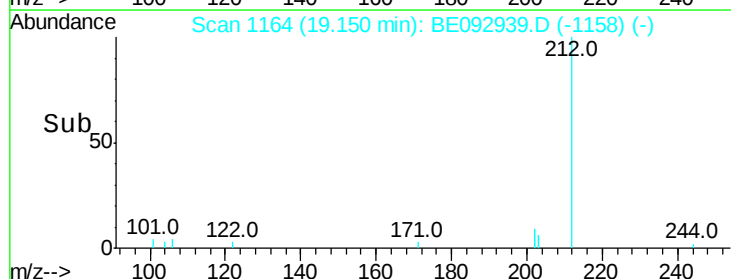
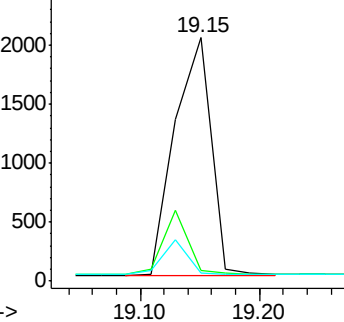
104 0.0 0.0 0.0

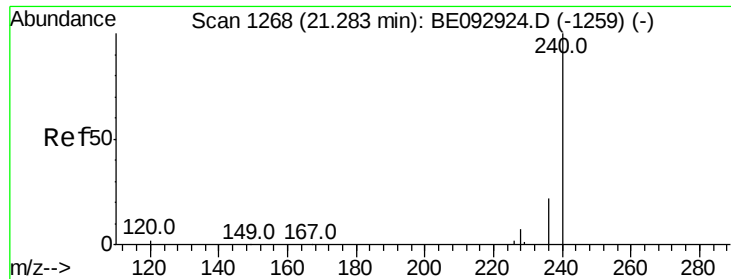


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

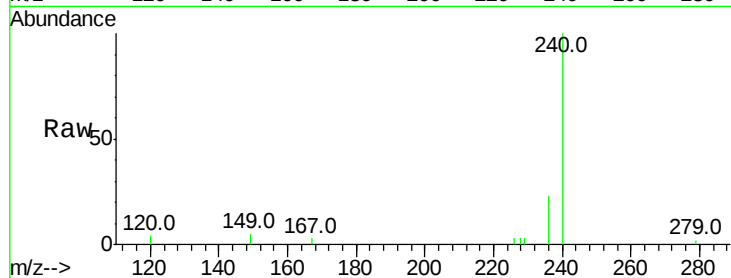




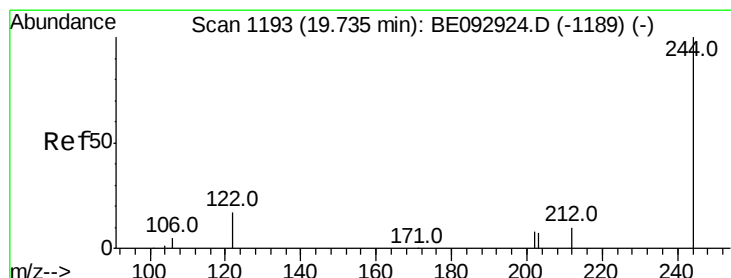
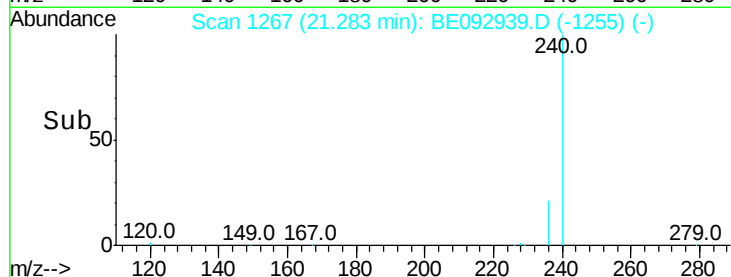
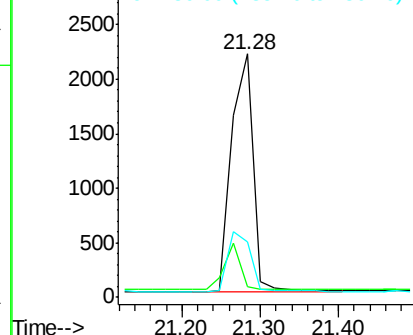
#26
 Chrvsene-d12
 Concen: 0.40 ng
 RT: 21.28 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:240 Resp: 4141
 Ion Ratio Lower Upper
 240 100
 120 4.3 4.6 6.8#
 236 22.8 19.8 29.8

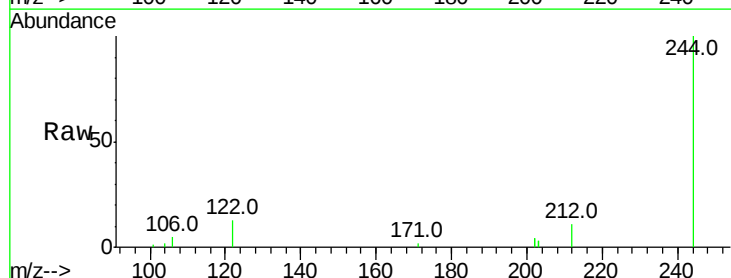


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

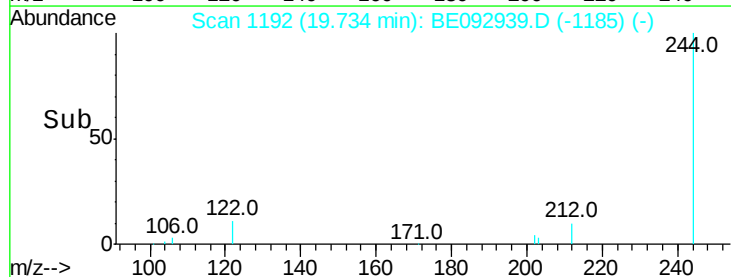
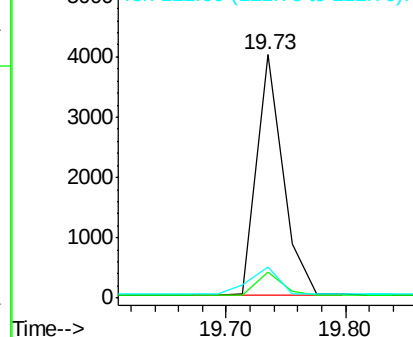


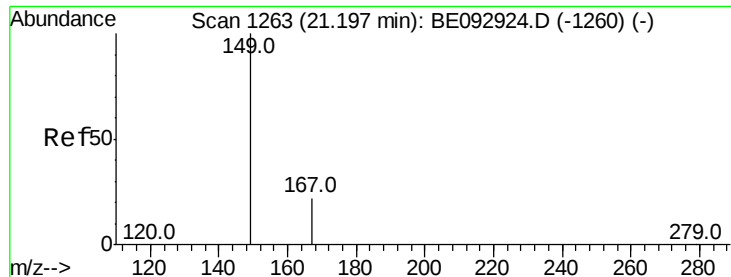
#28
 Terphenyl-d14
 Concen: 0.85 ng
 RT: 19.73 min Scan# 1192
 Delta R.T. -0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Tgt Ion:244 Resp: 6121
 Ion Ratio Lower Upper
 244 100
 212 10.9 18.4 27.6#
 122 12.7 23.3 34.9#



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

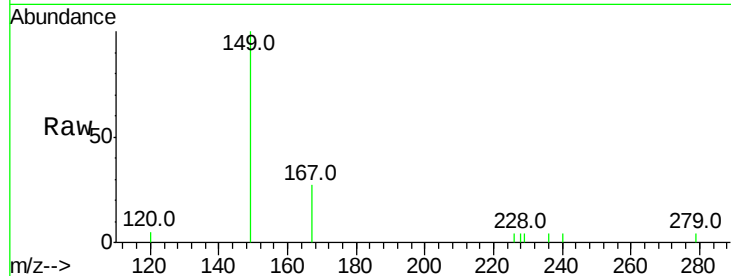




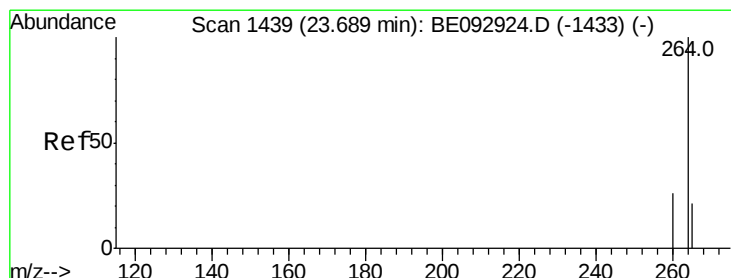
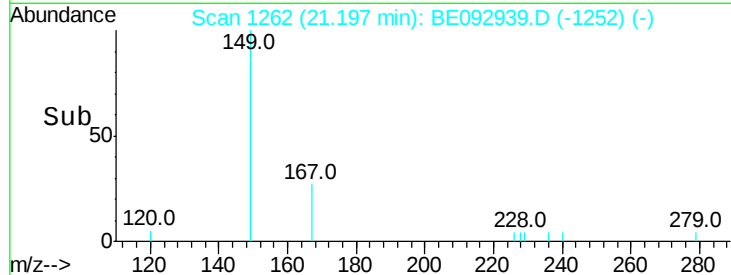
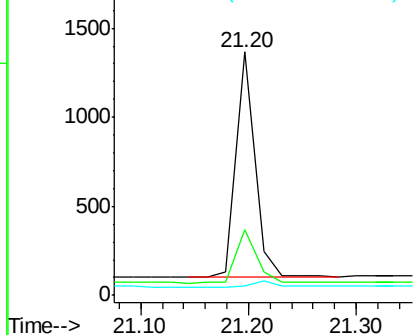
#31
 Bis(2-ethylhexyl)phthalate
 Concen: 0.57 ng
 RT: 21.20 min Scan# 1262
 Delta R.T. -0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:149 Resp: 1521
 Ion Ratio Lower Upper
 149 100
 167 25.7 20.9 31.3
 279 2.9 0.0 0.0#

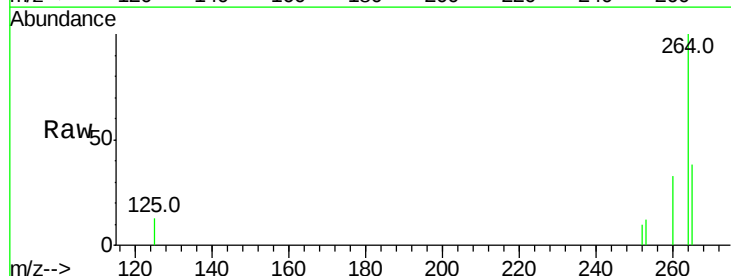


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

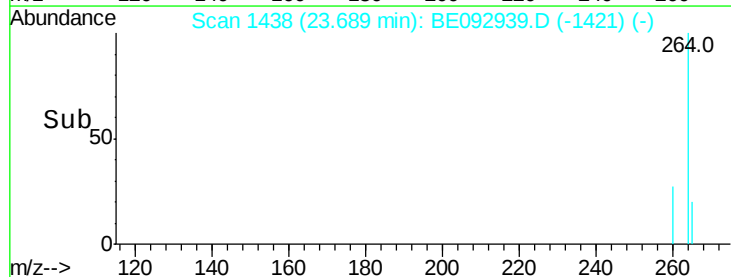
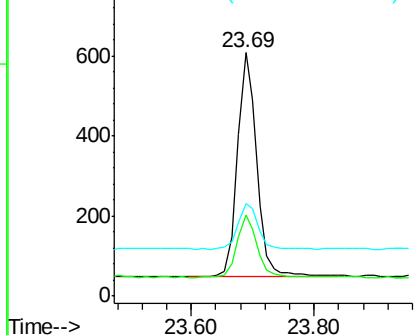


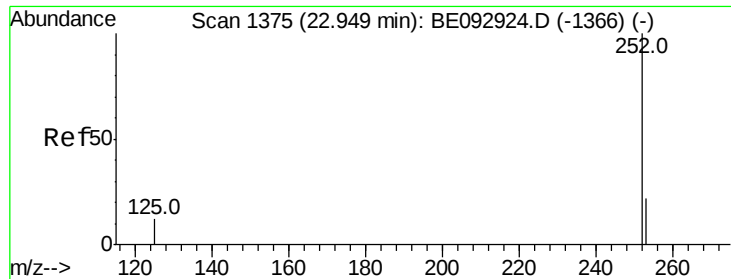
#33
 Perylene-d12
 Concen: 0.40 ng
 RT: 23.69 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: BE092939.D
 Acq: 5 May 2017 21:04

Tgt Ion:264 Resp: 1237
 Ion Ratio Lower Upper
 264 100
 260 33.2 23.5 35.3
 265 38.0 27.2 40.8



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

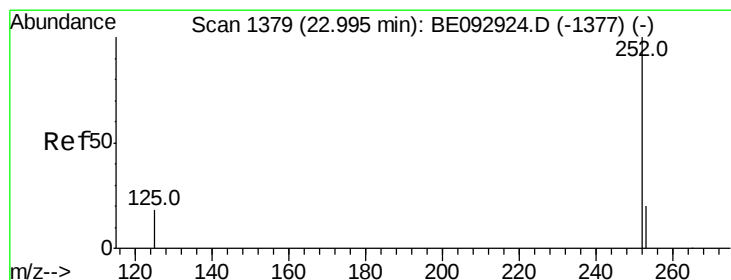
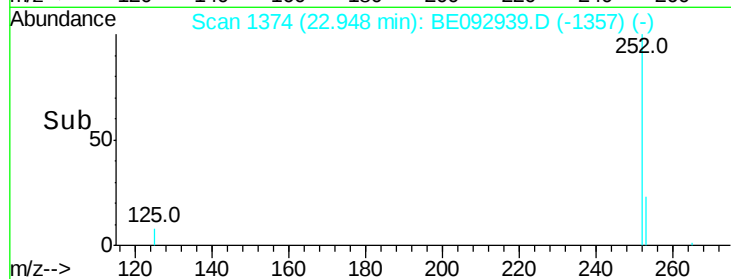
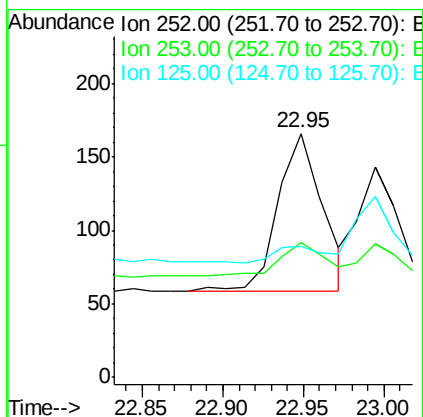
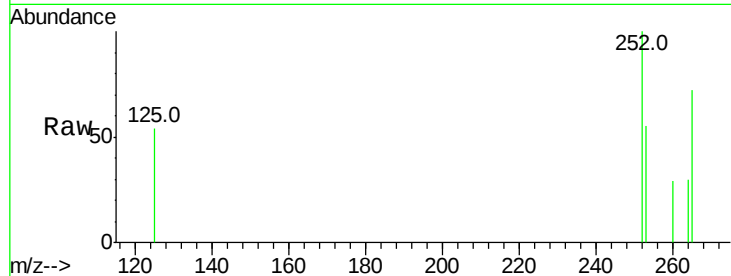




#34
Benzo(b)fluoranthene
Concen: 0.05 ng
RT: 22.95 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092939.D
Acq: 5 May 2017 21:04

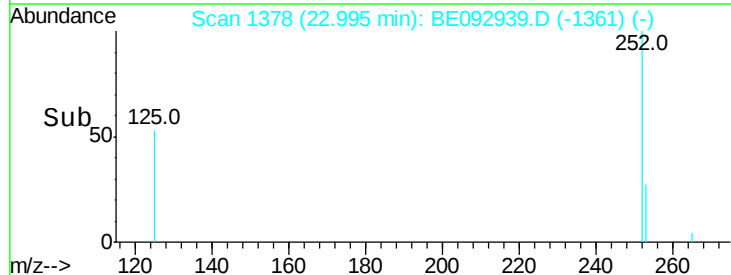
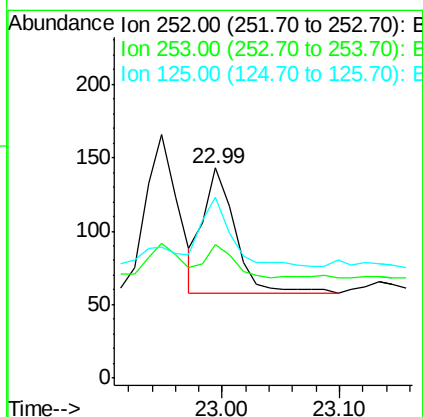
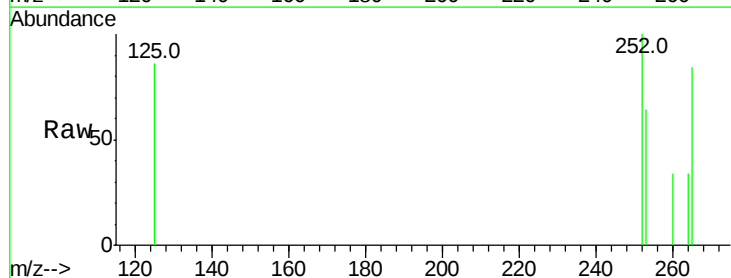
Instrument :
BNA_E
ClientSampleId :

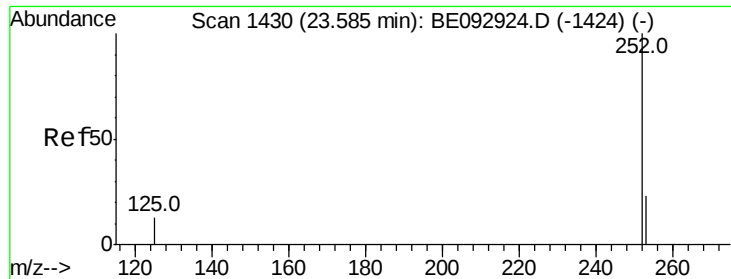
Tot Ion:252 Resp: 205
Ion Ratio Lower Upper
252 100
253 55.4 24.7 37.1#
125 53.6 20.3 30.5#



#35
Benzo(k)fluoranthene
Concen: 0.04 ng
RT: 22.99 min Scan# 1378
Delta R.T. -0.00 min
Lab File: BE092939.D
Acq: 5 May 2017 21:04

Tgt Ion:252 Resp: 160
Ion Ratio Lower Upper
252 100
253 63.6 25.8 38.8#
125 86.0 22.9 34.3#





#36

Benzo(a)pyrene

Concen: 0.02 ng

RT: 23.57 min Scan# 1428

Delta R.T. -0.01 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :

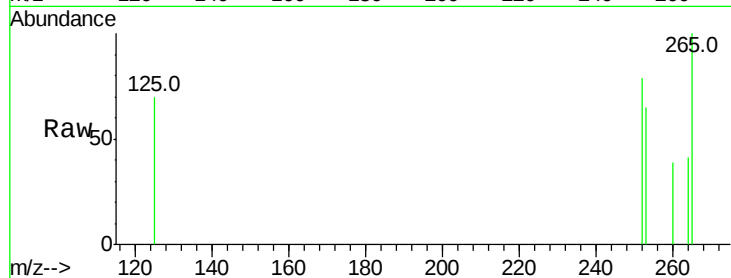
Tot Ion:252 Resp: 81

Ion Ratio Lower Upper

252 100

253 81.9 31.3 46.9#

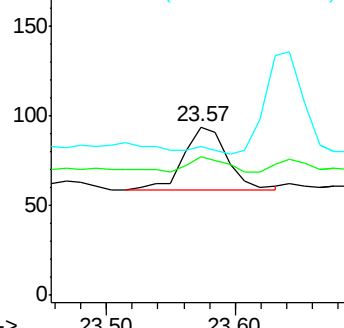
125 88.3 26.4 39.6#



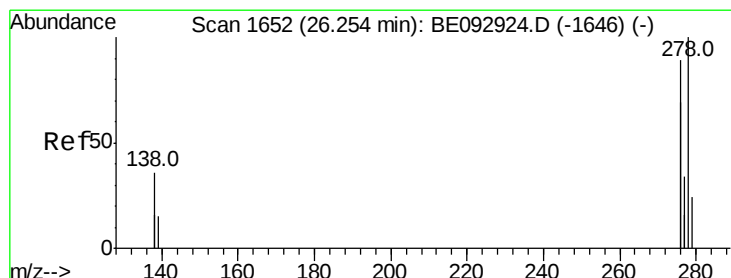
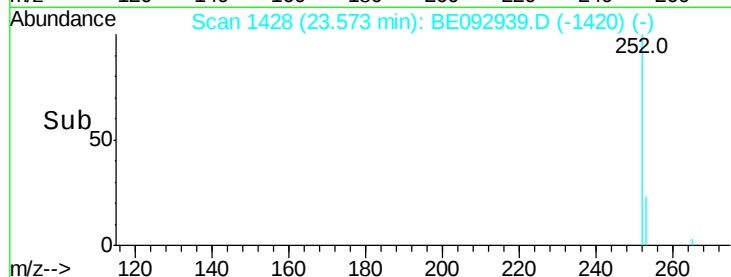
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#37

Dibenzo(a,h)anthracene

Concen: 0.03 ng

RT: 26.24 min Scan# 1650

Delta R.T. -0.02 min

Lab File: BE092939.D

Acq: 5 May 2017 21:04

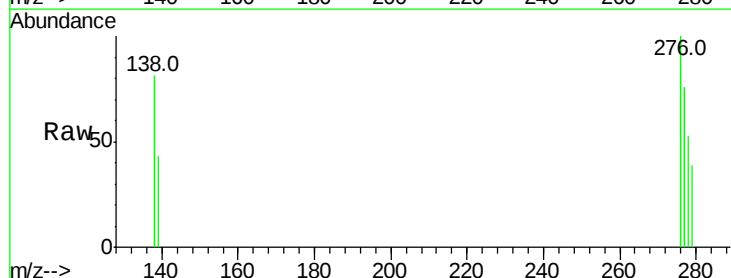
Tgt Ion:278 Resp: 110

Ion Ratio Lower Upper

278 100

139 81.6 27.4 41.2#

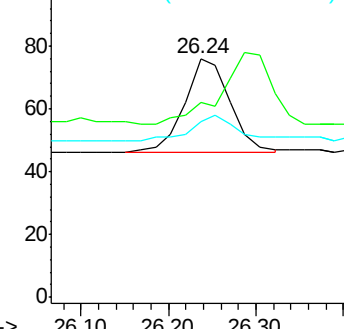
279 73.7 33.3 49.9#



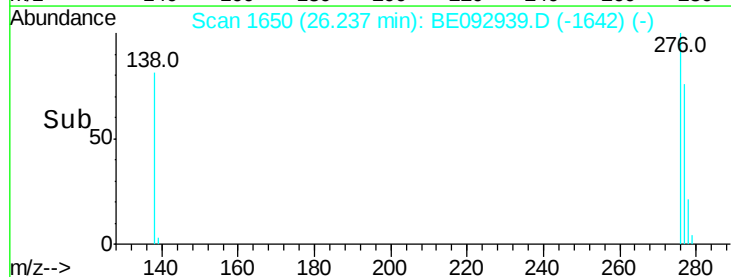
Abundance Ion 278.00 (277.70 to 278.70): E

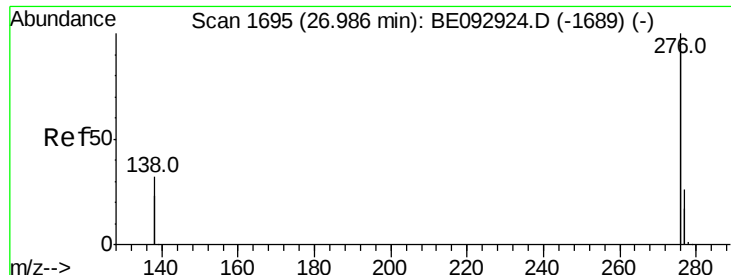
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#38

Benzo(a,h,i)perylene

Concen: 0.03 ng

RT: 26.99 min Scan# 1694

Delta R.T. -0.00 min

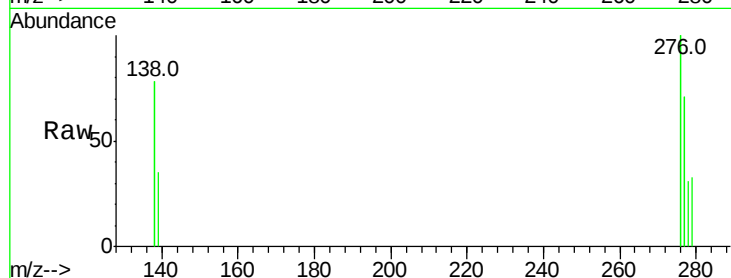
Lab File: BE092939.D

Acq: 5 May 2017 21:04

Instrument :

BNA_E

ClientSampleId :



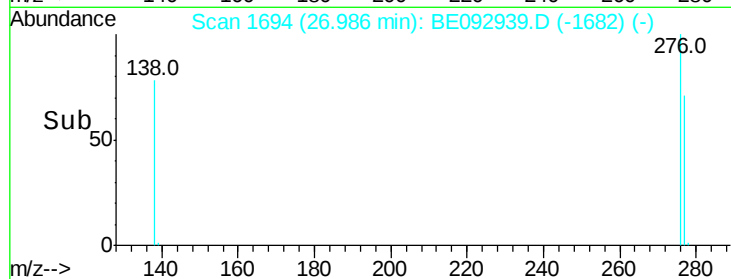
Tot Ion:276 Resp: 466

Ion Ratio Lower Upper

276 100

277 70.7 29.9 44.9#

138 78.0 34.6 51.8#



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

