

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032817\
 Data File : BE092854.D
 Acq On : 29 Mar 2017 2:24
 Operator : SJ/MA
 Sample : I2421-03
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 29 04:59:36 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	9248	5.00	ng	0.00
7) Naphthalene-d8	10.54	136	38659	5.00	ng	0.00
12) Acenaphthene-d10	14.40	164	17735	5.00	ng	0.00
18) Phenanthrene-d10	17.13	188	35232	5.00	ng	-0.02
24) Chrysene-d12	21.28	240	34947	5.00	ng	-0.02
31) Perylene-d12	23.70	264	29410	5.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.36	112	3673	1.71	ng	0.00
5) Phenol-d6	6.94	99	3889	1.23	ng	0.00
8) Nitrobenzene-d5	8.93	82	9574	4.31	ng	0.00
13) 2,4,6-Tribromophenol	15.88	330	588	2.12	ng	0.00
14) 2-Fluorobiphenyl	13.02	172	23628	4.04	ng	-0.01
26) Terphenyl-d14	19.74	244	22101	3.66	ng	-0.02

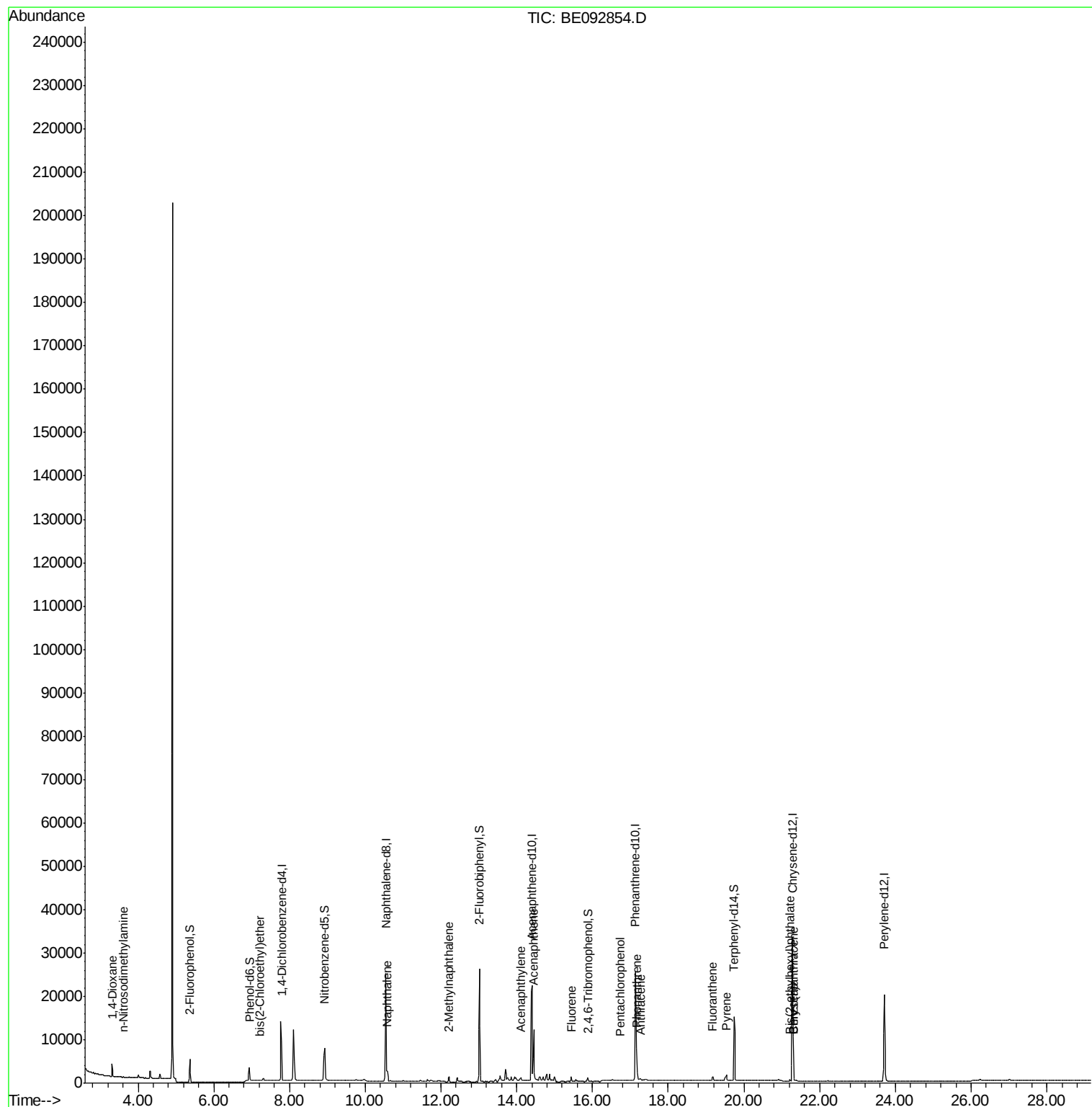
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.32	88	1647	1.33	ng	# 84
3) n-Nitrosodimethylamine	3.61	42	27	0.02	ng	# 2
6) bis(2-Chloroethyl)ether	7.22	93	108	0.04	ng	# 49
9) Naphthalene	10.58	128	3308	0.39	ng	98
11) 2-Methylnaphthalene	12.21	142	876	0.16	ng	95
15) Acenaphthylene	14.11	152	842	0.03	ng	# 2
16) Acenaphthene	14.45	154	2221	0.46	ng	83
17) Fluorene	15.44	166	726	0.13	ng	# 85
20) Pentachlorophenol	16.74	266	1	0.23	ng	# 69
21) Phenanthrene	17.18	178	1978	0.23	ng	99
22) Anthracene	17.27	178	239	0.03	ng	# 83
23) Fluoranthene	19.18	202	1620	0.04	ng	# 78
25) Pyrene	19.54	202	1668	0.05	ng	# 83
27) Benzo(a)anthracene	21.31	228	349	0.04	ng	# 45
28) Chrysene	21.31	228	351	0.04	ng	# 70
29) Bis(2-ethylhexyl)phthalate	21.21	149	440	0.20	ng	# 78

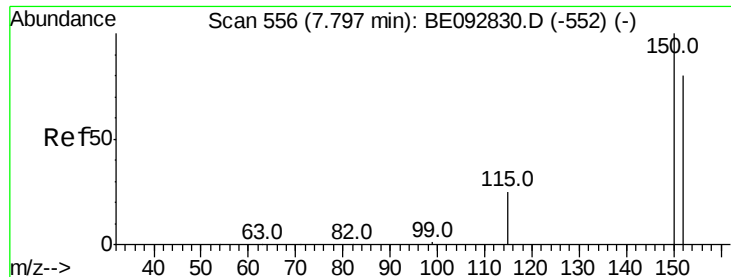
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

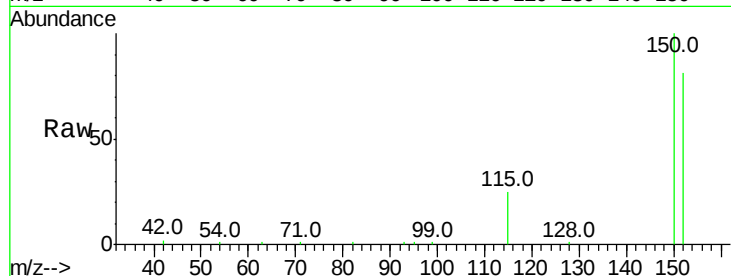
Tot Ion:152 Resp: 9248

Ion Ratio Lower Upper

152 100

150 124.2 106.0 159.0

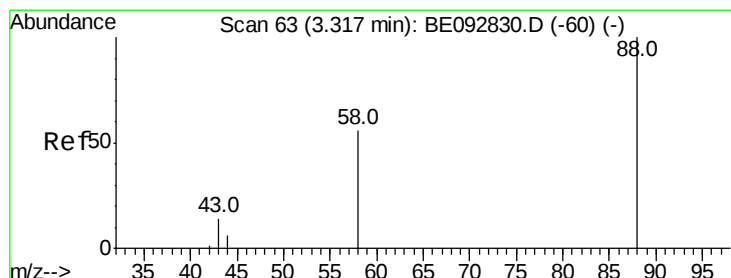
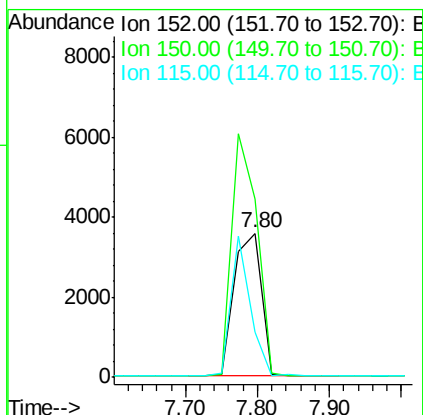
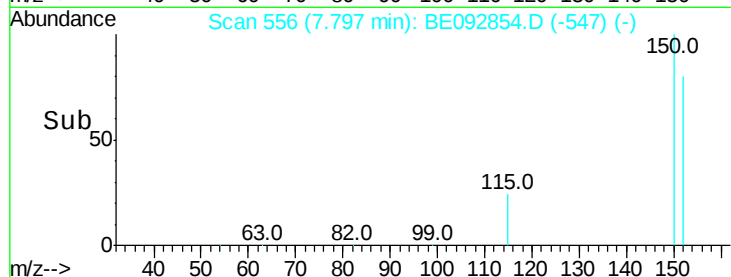
115 31.3 31.2 46.8



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



#2

1,4-Dioxane

Concen: 1.33 ng

RT: 3.32 min Scan# 63

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

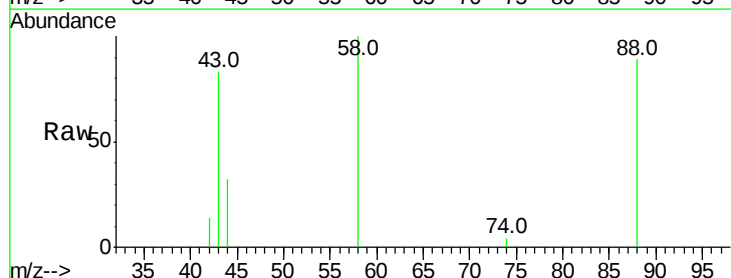
Tgt Ion: 88 Resp: 1647

Ion Ratio Lower Upper

88 100

58 89.1 63.6 95.4

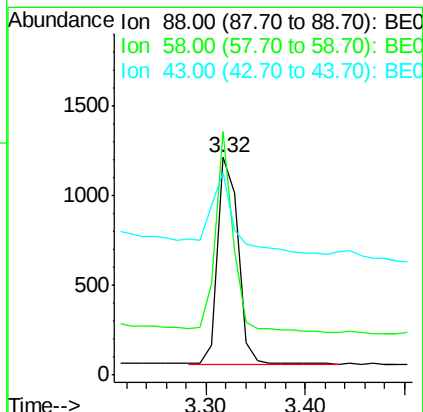
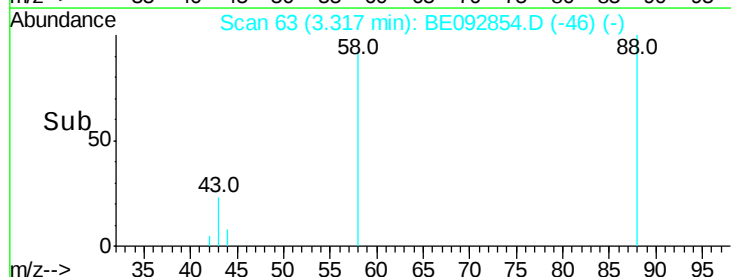
43 50.6 28.0 42.0#



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



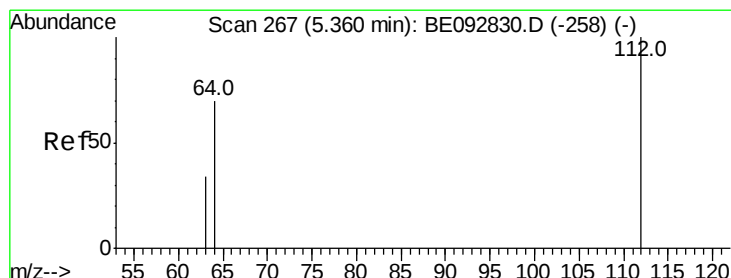
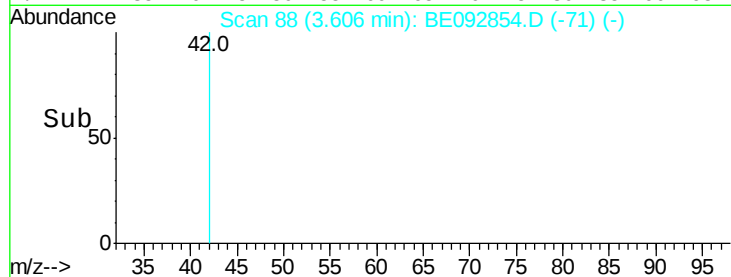
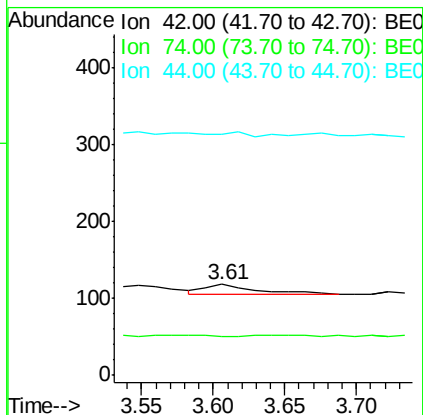
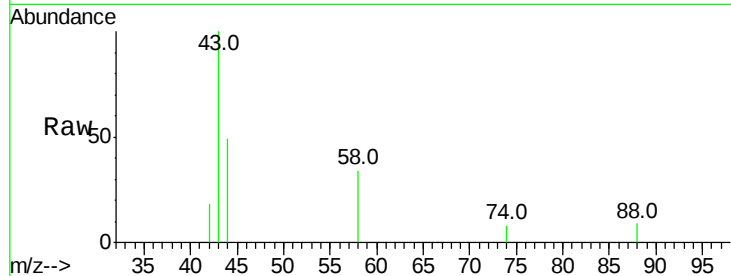


#3

n-Nitrosodimethylamine
 Concen: 0.02 ng
 RT: 3.61 min Scan# 88
 Delta R.T. 0.00 min
 Lab File: BE092854.D
 Acq: 29 Mar 2017 2:24

Instrument :
 BNA_E
 ClientSampleId :

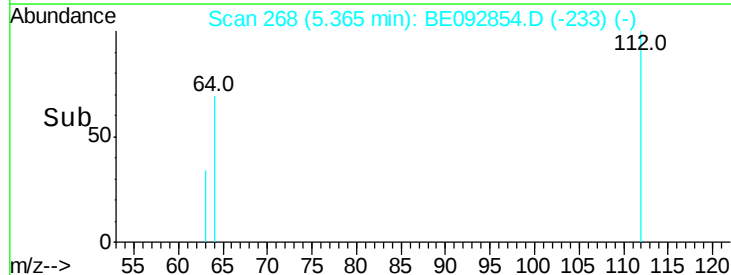
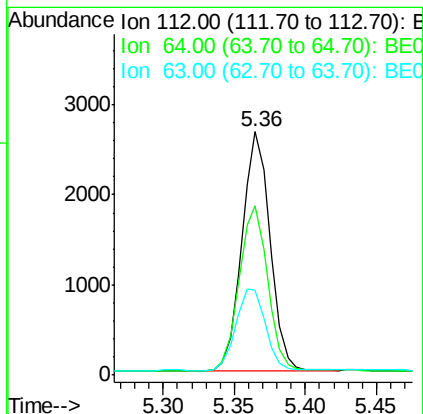
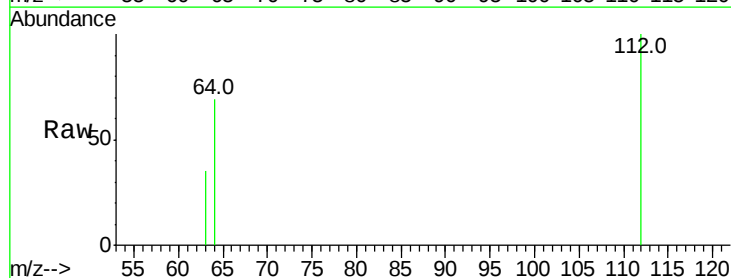
Tot Ion: 42 Resp: 27
 Ion Ratio Lower Upper
 42 100
 74 0.0 86.0 129.0#
 44 0.0 5.1 7.7#

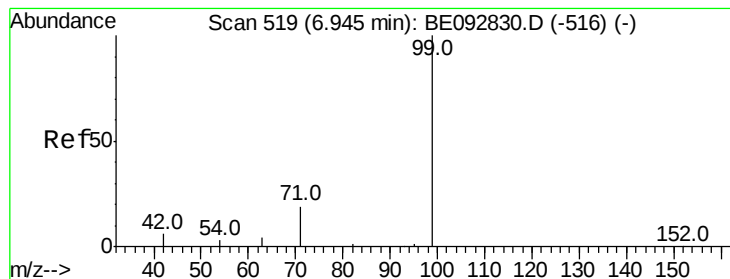


#4

2-Fluorophenol
 Concen: 1.71 ng
 RT: 5.36 min Scan# 268
 Delta R.T. 0.00 min
 Lab File: BE092854.D
 Acq: 29 Mar 2017 2:24

Tgt Ion: 112 Resp: 3673
 Ion Ratio Lower Upper
 112 100
 64 69.8 53.5 80.3
 63 35.4 27.9 41.9





#5

Phenol-d6

Concen: 1.23 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

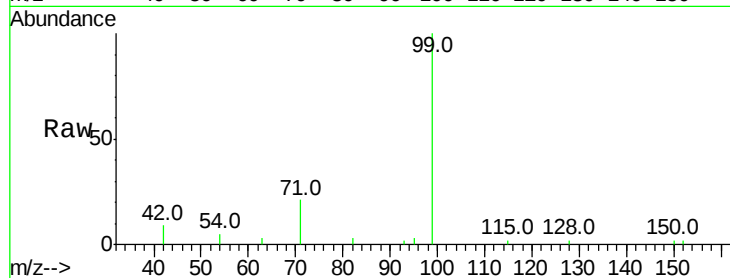
Tot Ion: 99 Resp: 3889

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

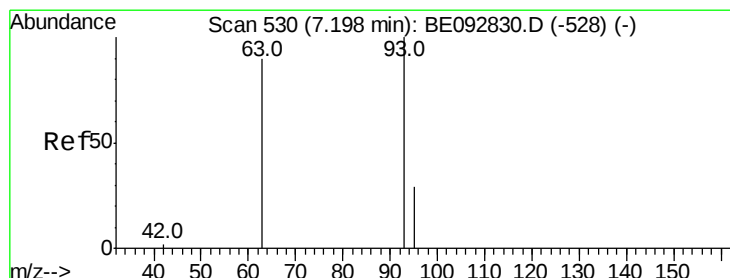
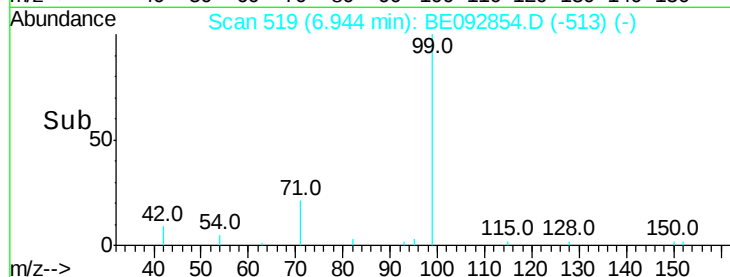
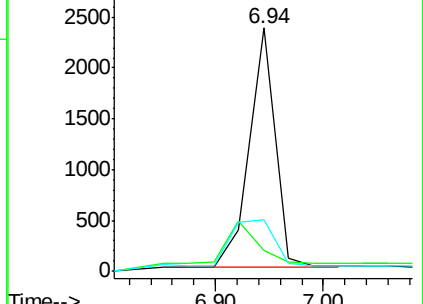
71 32.9 30.6 45.8



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



#6

bis(2-Chloroethyl)ether

Concen: 0.04 ng

RT: 7.22 min Scan# 531

Delta R.T. 0.02 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

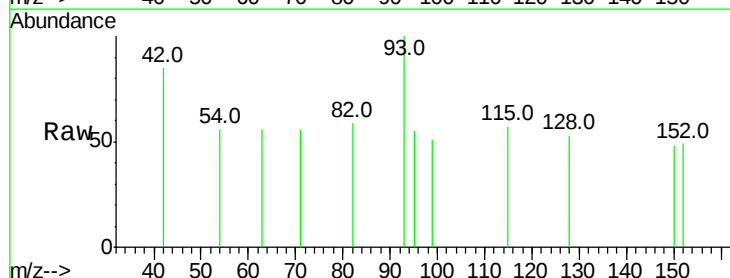
Tgt Ion: 93 Resp: 108

Ion Ratio Lower Upper

93 100

63 0.0 16.0 24.0#

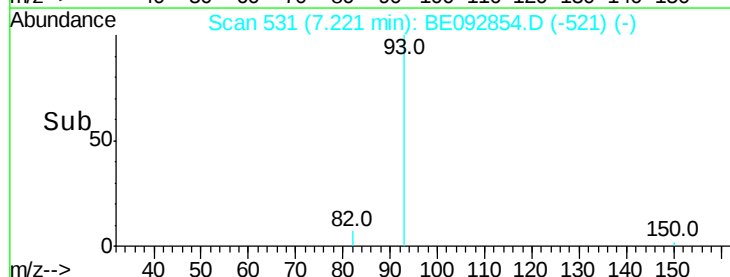
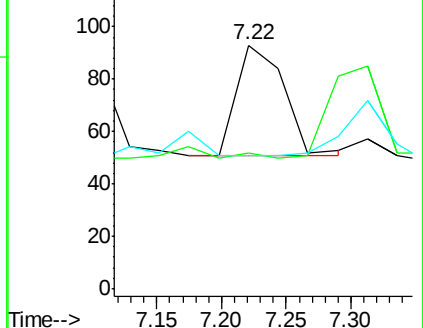
95 0.0 24.0 36.0#

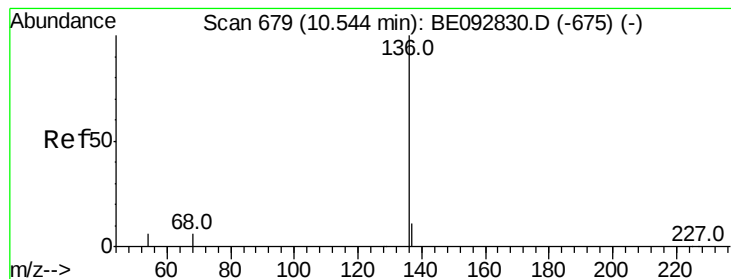


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.54 min Scan# 679

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 38659

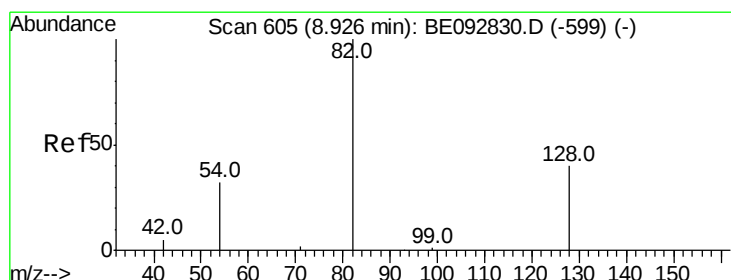
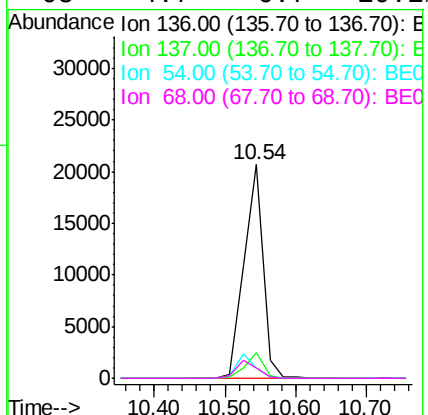
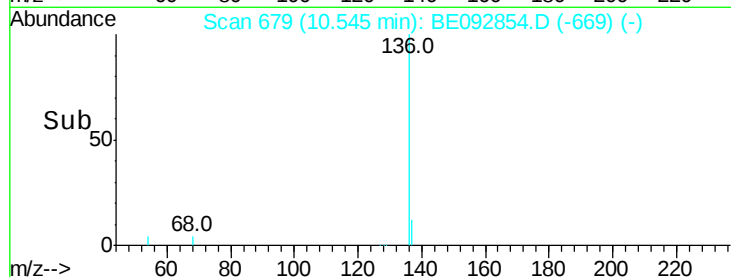
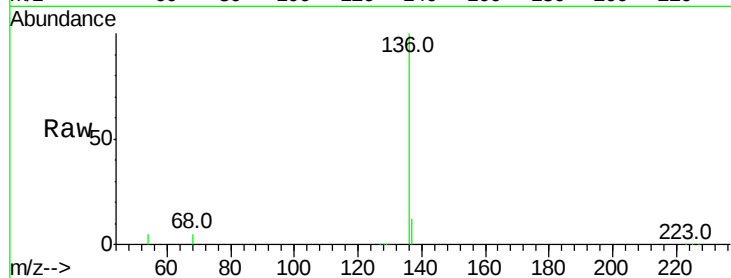
Ion Ratio Lower Upper

136 100

137 11.8 8.2 12.4

54 4.6 9.6 14.4#

68 4.7 6.7 10.1#



#8

Nitrobenzene-d5

Concen: 4.31 ng

RT: 8.93 min Scan# 605

Delta R.T. -0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

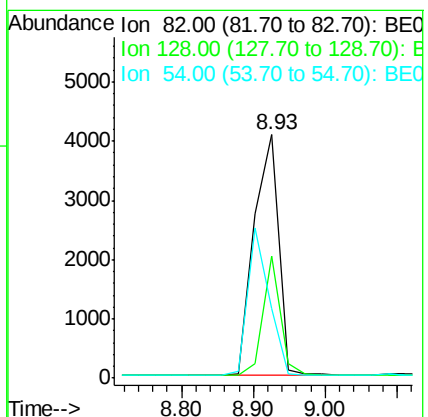
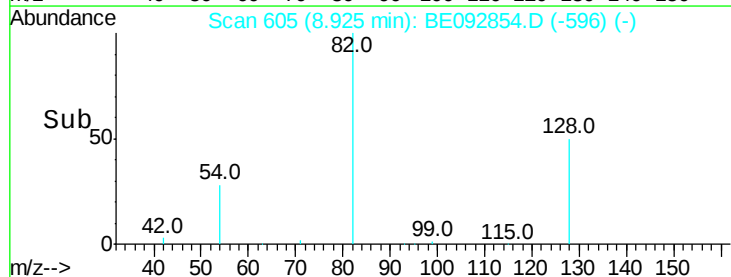
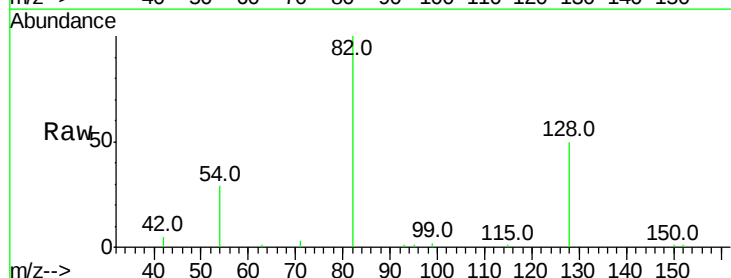
Tgt Ion: 82 Resp: 9574

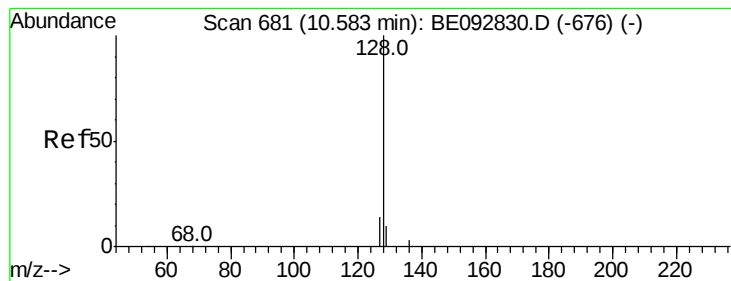
Ion Ratio Lower Upper

82 100

128 50.2 39.0 58.4

54 28.8 44.8 67.2#





#9

Naphthalene

Concen: 0.39 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

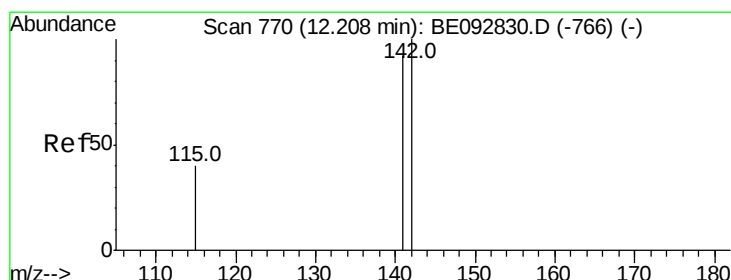
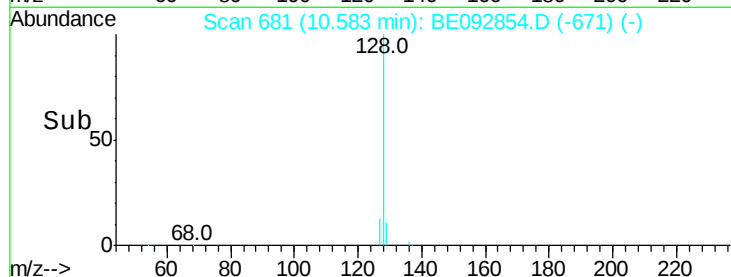
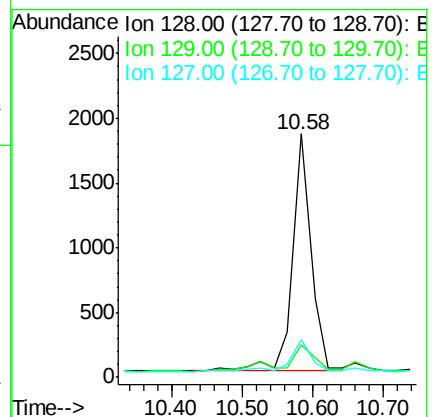
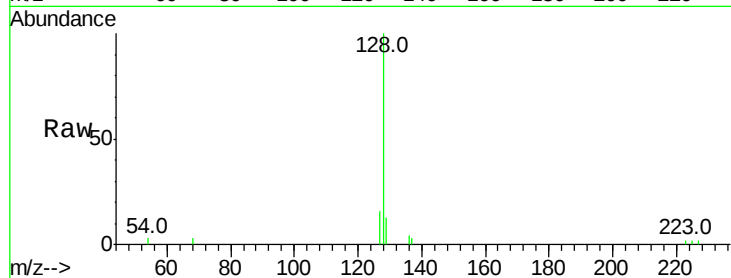
Tot Ion:128 Resp: 3308

Ion Ratio Lower Upper

128 100

129 13.4 11.2 16.8

127 15.5 11.6 17.4



#11

2-Methylnaphthalene

Concen: 0.16 ng

RT: 12.21 min Scan# 770

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

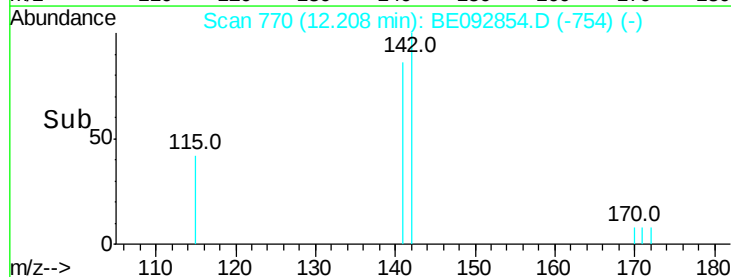
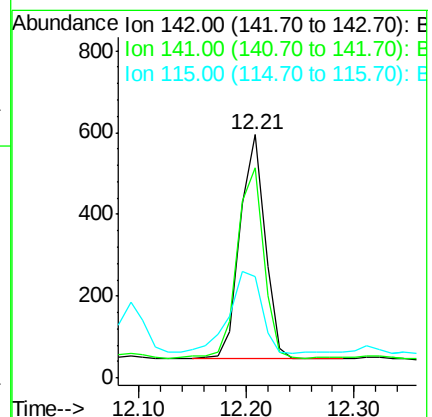
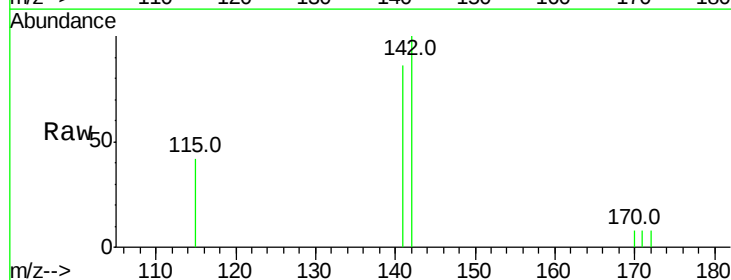
Tgt Ion:142 Resp: 876

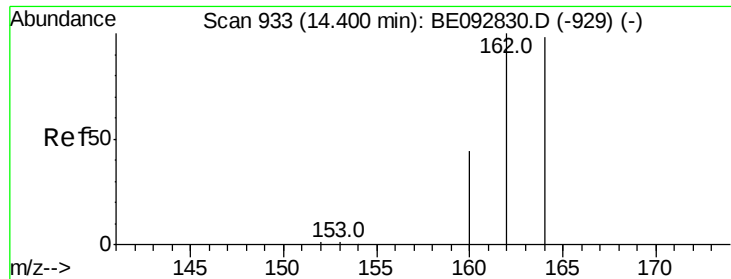
Ion Ratio Lower Upper

142 100

141 86.2 73.7 110.5

115 41.5 34.0 51.0

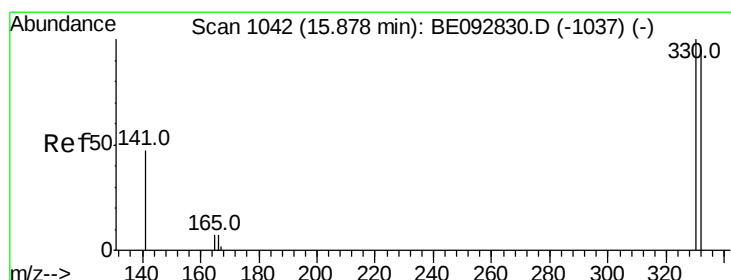
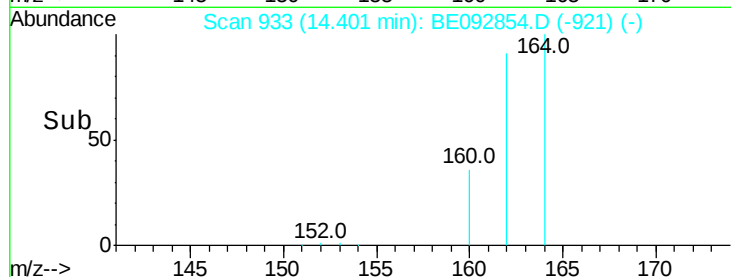
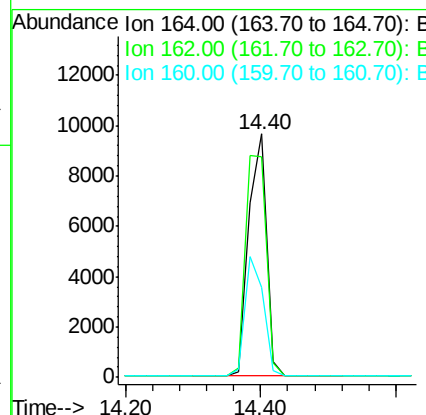
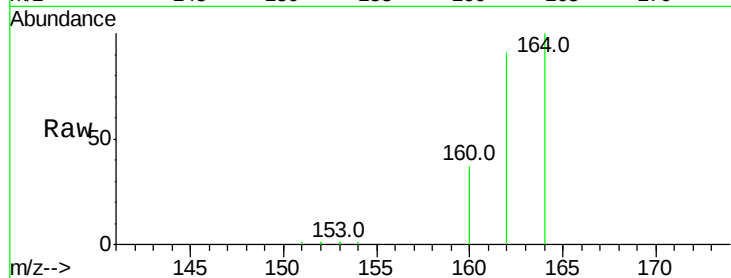




#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.40 min Scan# 933
Delta R.T. 0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

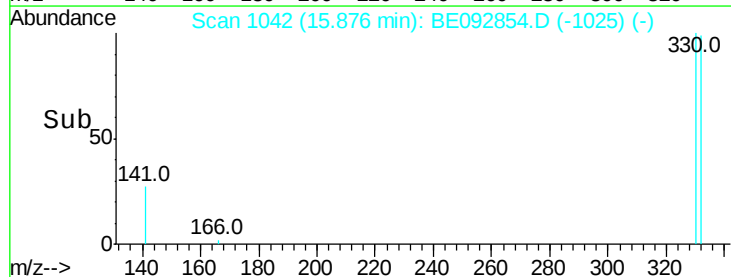
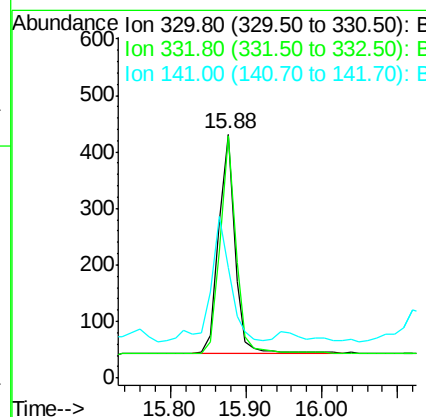
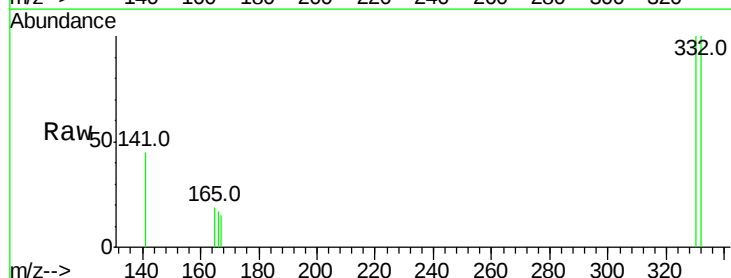
Instrument :
BNA_E
ClientSampleId :

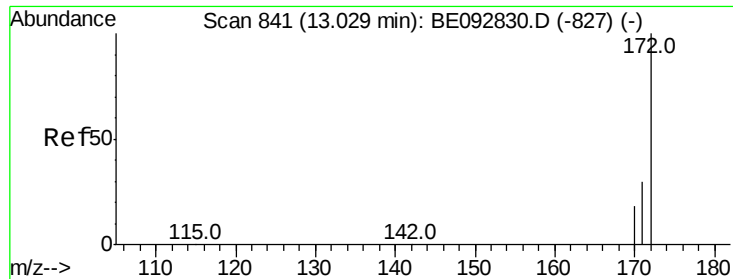
Tot Ion:164 Resp: 17735
Ion Ratio Lower Upper
164 100
162 90.8 71.4 107.0
160 36.7 27.4 41.2



#13
2,4,6-Tribromophenol
Concen: 2.12 ng
RT: 15.88 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

Tgt Ion:330 Resp: 588
Ion Ratio Lower Upper
330 100
332 97.1 75.4 113.0
141 67.5 31.0 46.6#

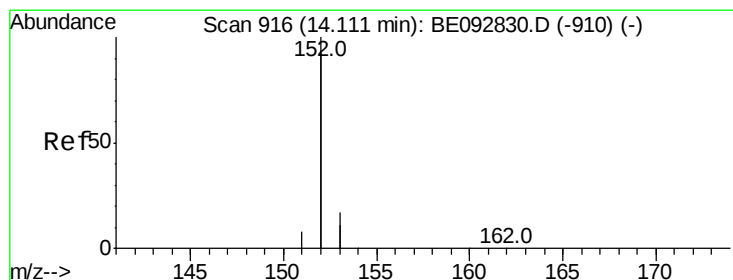
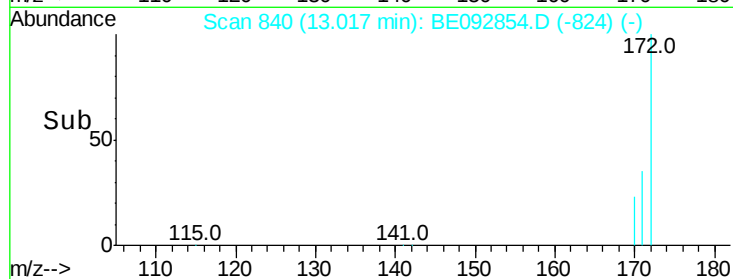
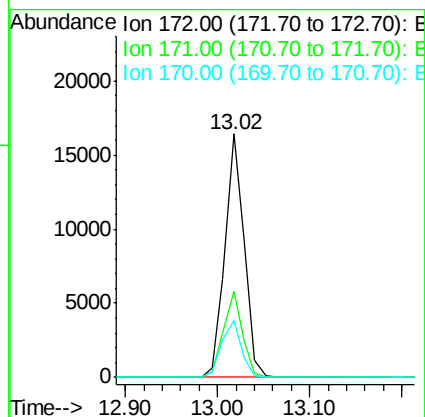
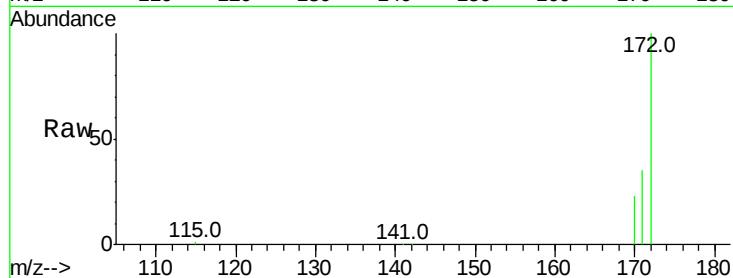




#14
2-Fluorobiphenyl
Concen: 4.04 ng
RT: 13.02 min Scan# 840
Delta R.T. -0.01 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

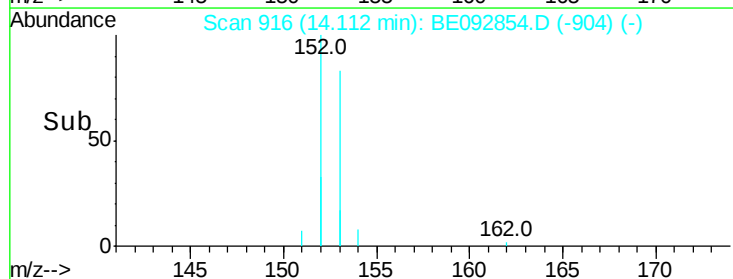
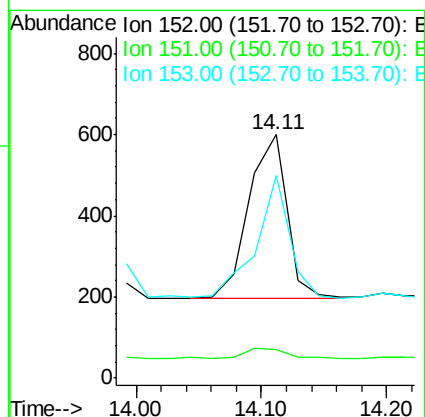
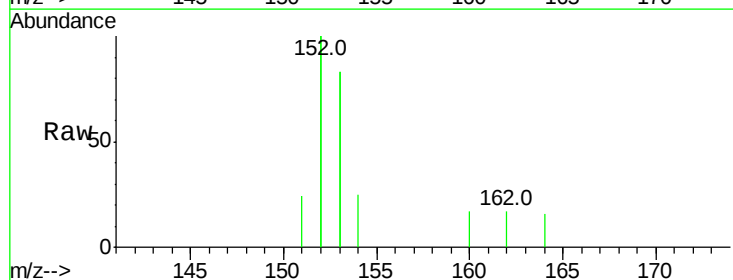
Instrument :
BNA_E
ClientSampleId :

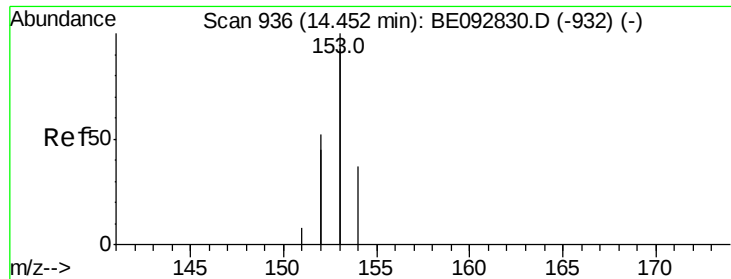
Tot Ion:172 Resp: 23628
Ion Ratio Lower Upper
172 100
171 35.4 30.1 45.1
170 23.5 21.8 32.6



#15
Acenaphthylene
Concen: 0.03 ng
RT: 14.11 min Scan# 916
Delta R.T. 0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

Tgt Ion:152 Resp: 842
Ion Ratio Lower Upper
152 100
151 6.4 3.9 5.9#
153 66.0 10.4 15.6#

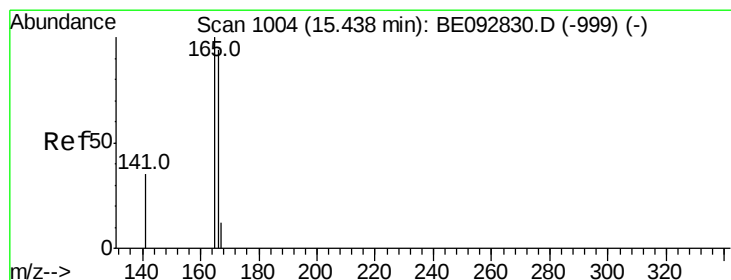
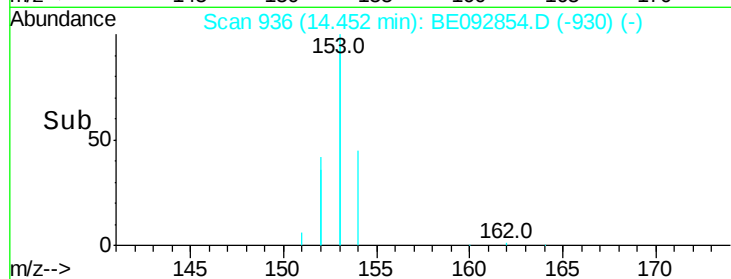
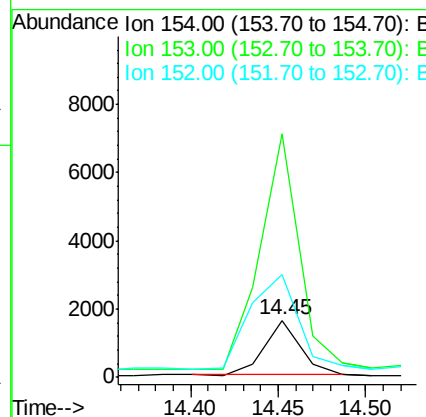
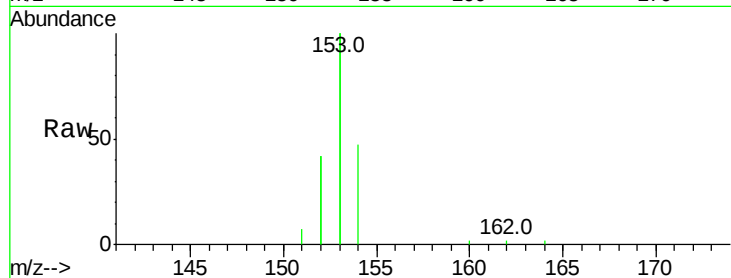




#16
Acenaphthene
Concen: 0.46 ng
RT: 14.45 min Scan# 936
Delta R.T. 0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

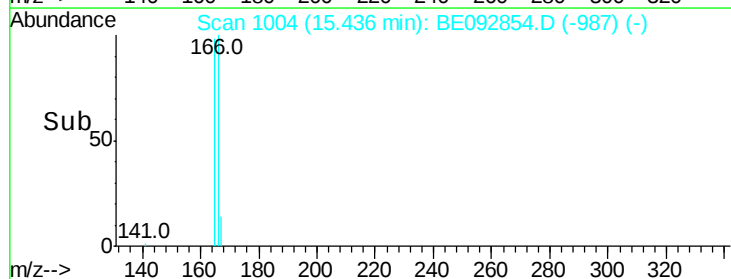
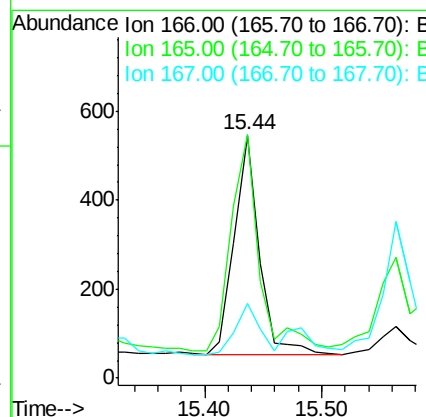
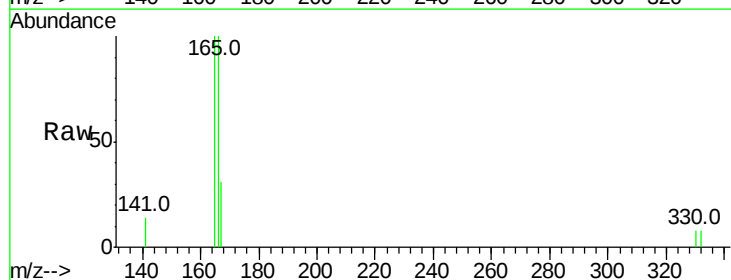
Instrument :
BNA_E
ClientSampleId :

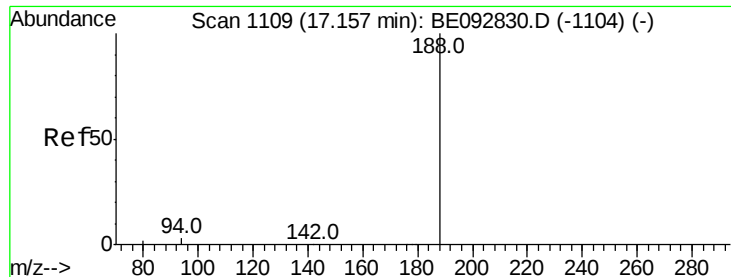
Tot Ion:154 Resp: 2221
Ion Ratio Lower Upper
154 100
153 481.3 350.8 526.2
152 240.6 171.1 256.7



#17
Fluorene
Concen: 0.13 ng
RT: 15.44 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

Tgt Ion:166 Resp: 726
Ion Ratio Lower Upper
166 100
165 111.3 78.2 117.4
167 23.7 11.0 16.4#





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.13 min Scan# 1109

Delta R.T. -0.02 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

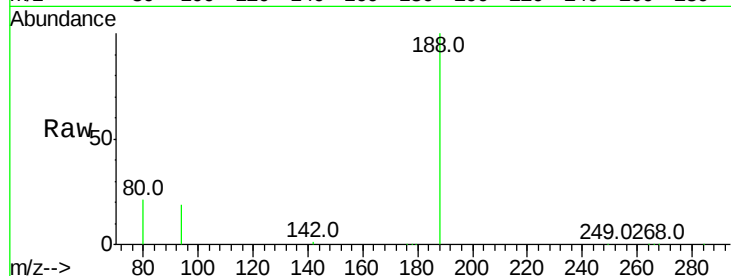
Tot Ion:188 Resp: 35232

Ion Ratio Lower Upper

188 100

94 18.8 3.2 4.8#

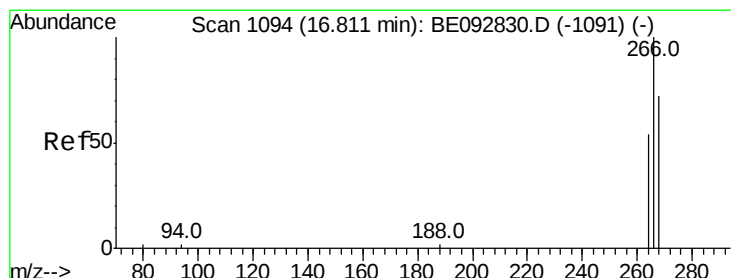
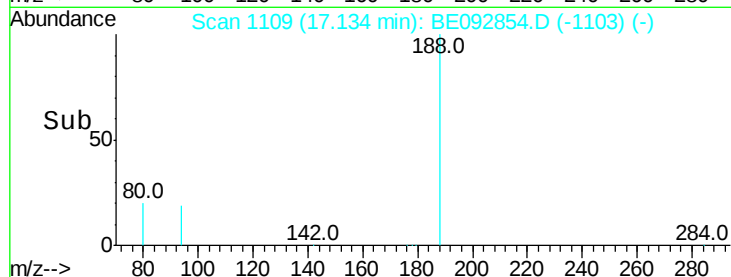
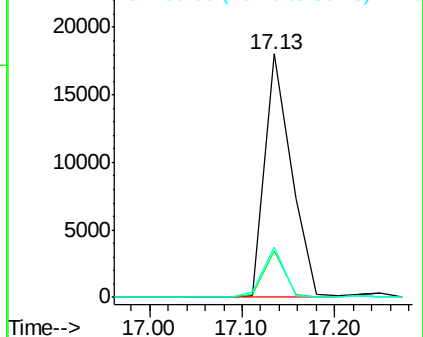
80 20.5 2.6 3.8#



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



#20

Pentachlorophenol

Concen: 0.23 ng

RT: 16.74 min Scan# 1092

Delta R.T. -0.07 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

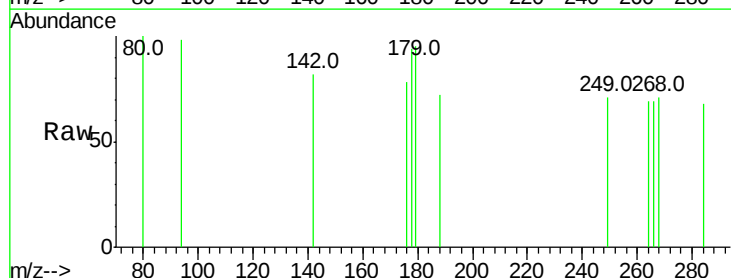
Tgt Ion:266 Resp: 1

Ion Ratio Lower Upper

266 100

268 102.2 62.5 93.7#

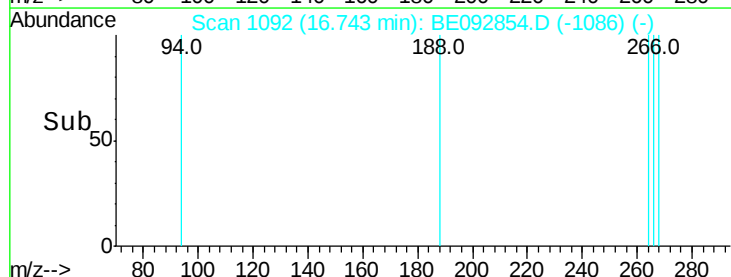
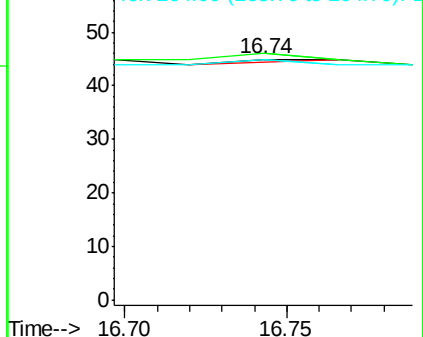
264 100.0 57.2 85.8#

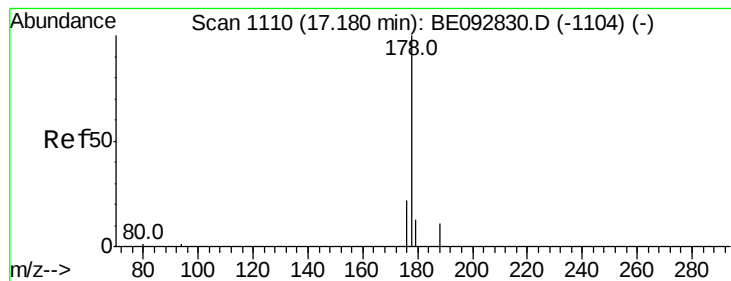


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#21

Phenanthrene

Concen: 0.23 ng

RT: 17.18 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

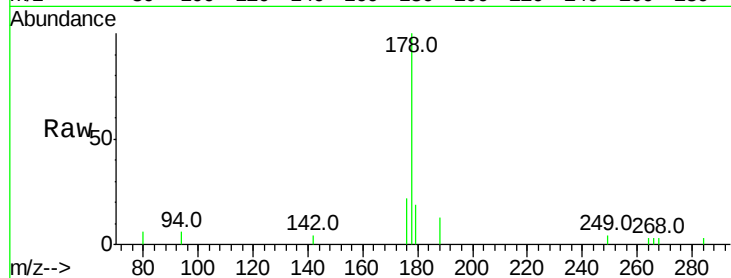
Tot Ion:178 Resp: 1978

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

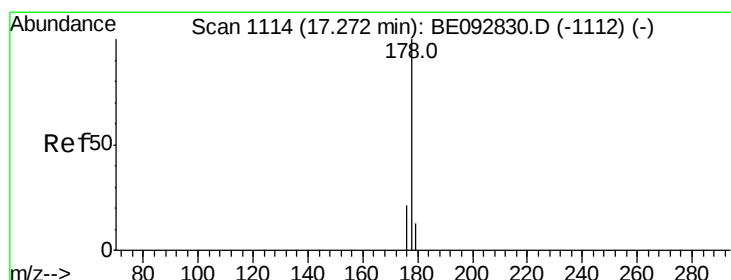
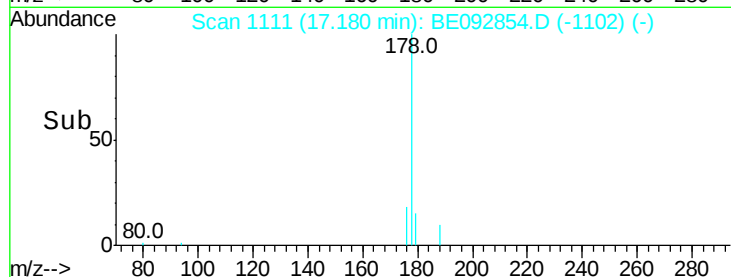
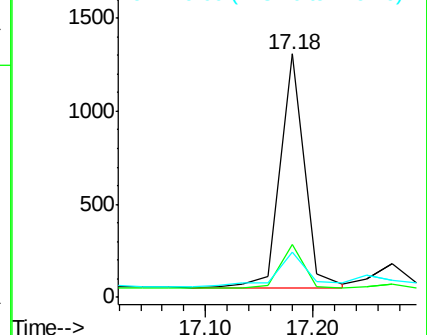
179 20.1 16.0 24.0



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: 0.03 ng

RT: 17.27 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

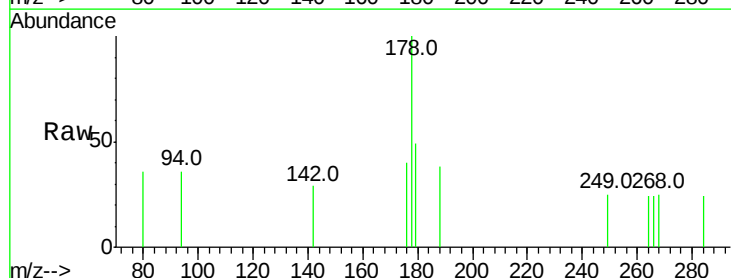
Tgt Ion:178 Resp: 239

Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

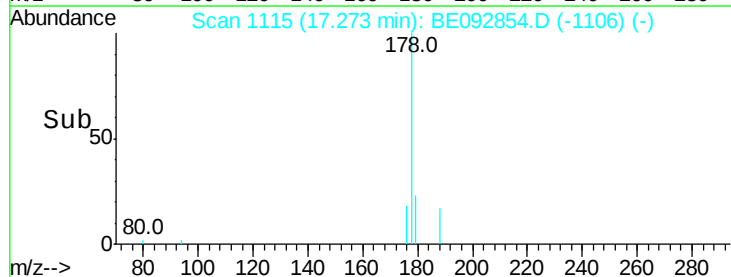
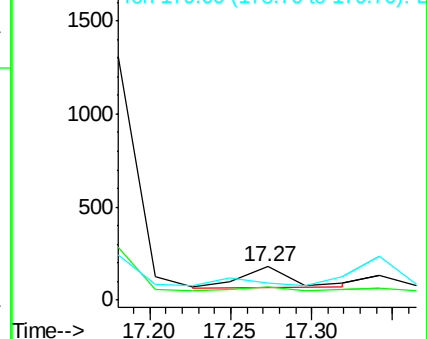
179 0.0 12.2 18.2#

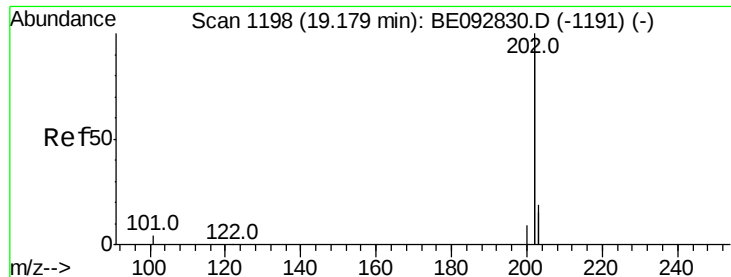


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.04 ng

RT: 19.18 min Scan# 1199

Delta R.T. 0.00 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

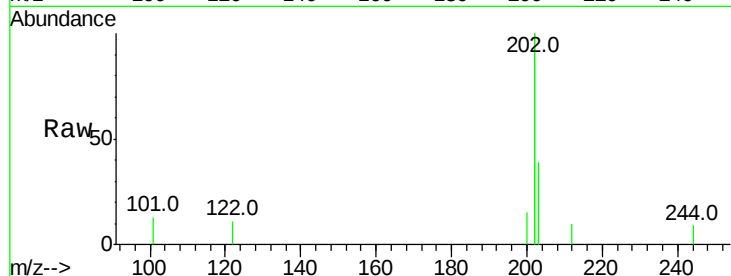
Tot Ion:202 Resp: 1620

Ion Ratio Lower Upper

202 100

101 5.0 2.2 3.4#

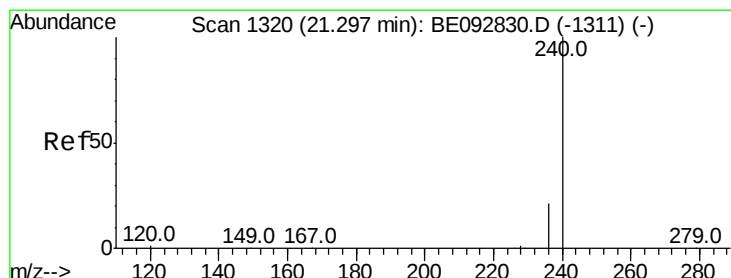
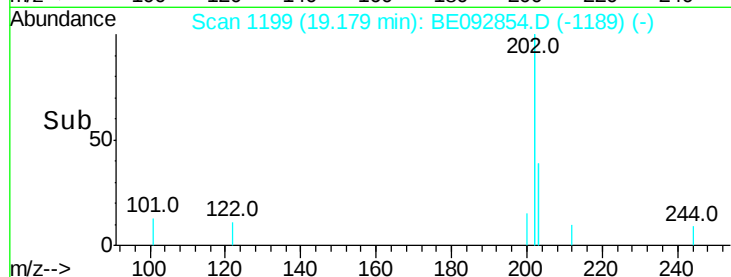
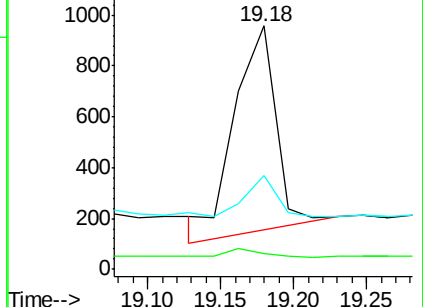
203 27.9 13.7 20.5#



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.28 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

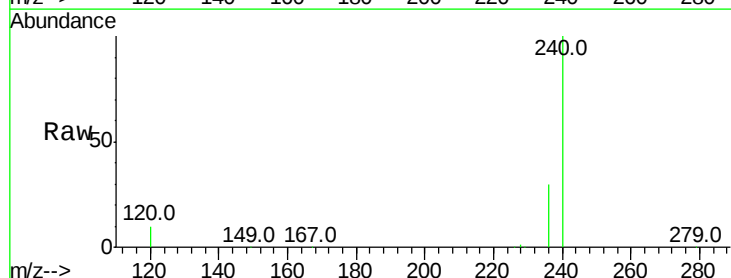
Tgt Ion:240 Resp: 34947

Ion Ratio Lower Upper

240 100

120 9.5 2.6 4.0#

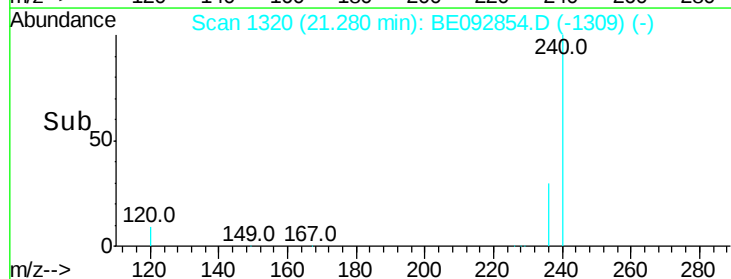
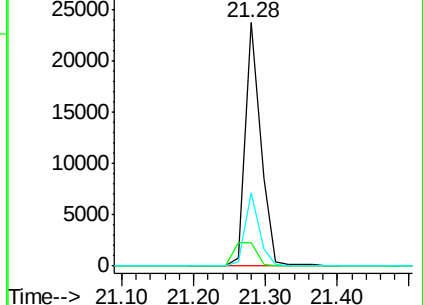
236 30.0 24.6 37.0

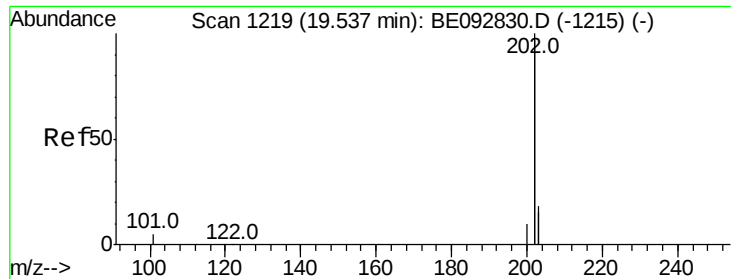


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

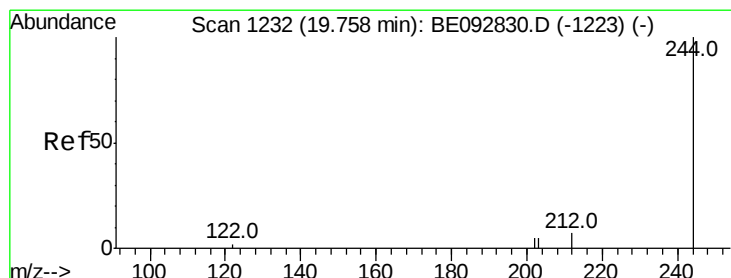
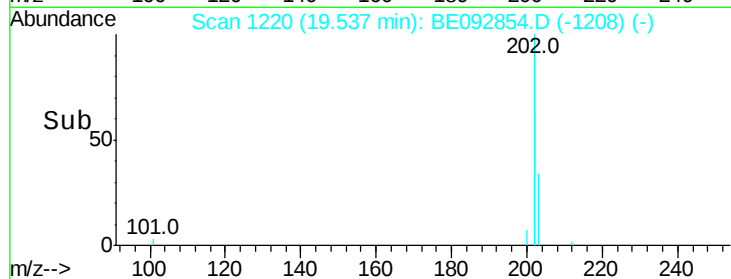
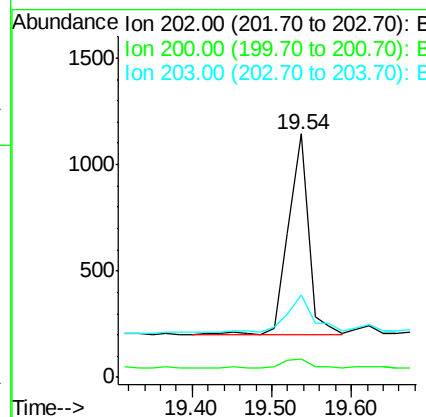
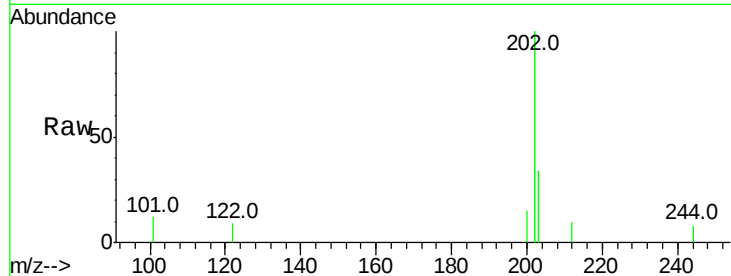




#25
Pvrene
Concen: 0.05 ng
RT: 19.54 min Scan# 1220
Delta R.T. 0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

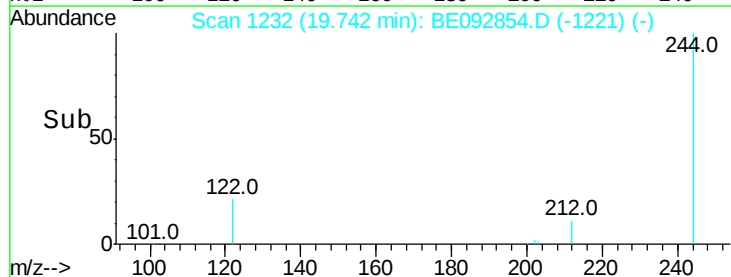
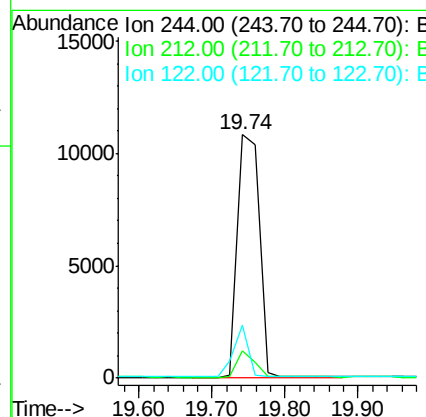
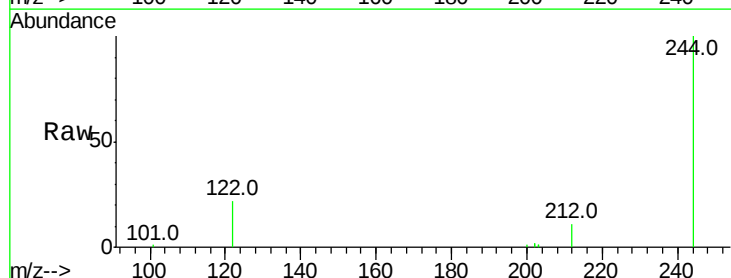
Instrument :
BNA_E
ClientSampleId :

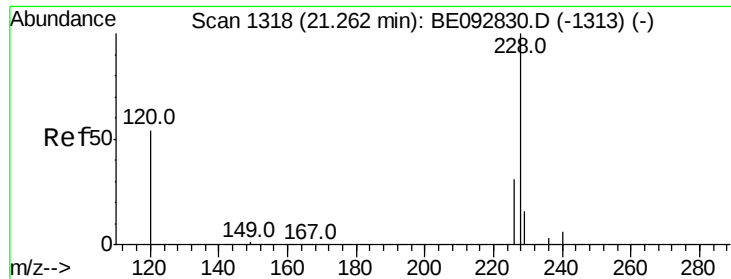
Tot Ion:202 Resp: 1668
Ion Ratio Lower Upper
202 100
200 4.9 4.2 6.4
203 26.7 13.9 20.9#



#26
Terphenyl-d14
Concen: 3.66 ng
RT: 19.74 min Scan# 1232
Delta R.T. -0.02 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

Tgt Ion:244 Resp: 22101
Ion Ratio Lower Upper
244 100
212 11.3 6.7 10.1#
122 21.9 3.6 5.4#

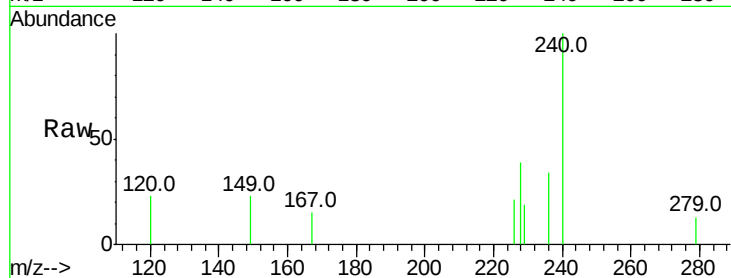




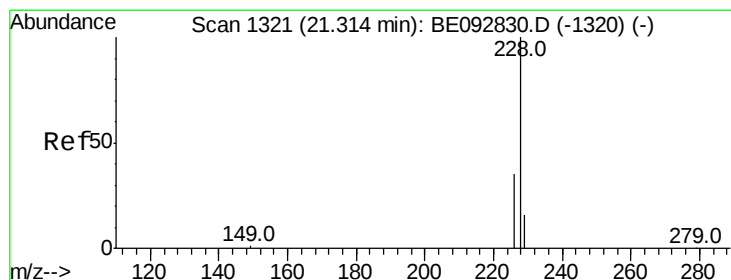
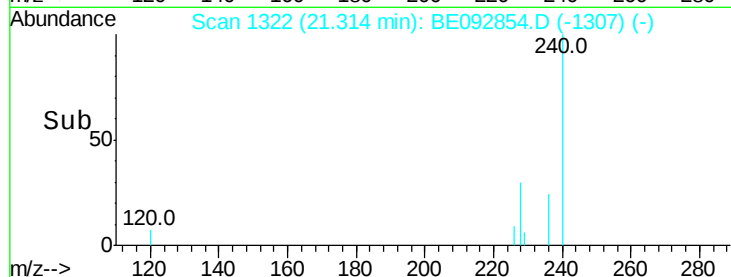
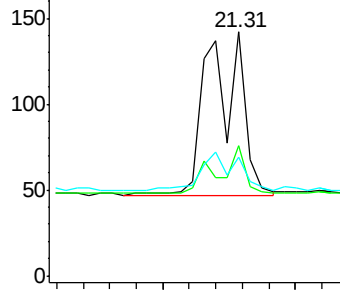
#27
Benzo(a)anthracene
Concen: 0.04 ng
RT: 21.31 min Scan# 1322
Delta R.T. 0.05 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

Instrument :
BNA_E
ClientSampled :

Tot Ion:228 Resp: 349
Ion Ratio Lower Upper
228 100
226 53.5 23.6 35.4#
229 48.6 13.3 19.9#

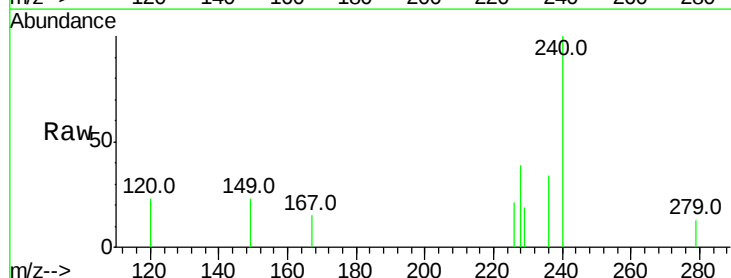


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

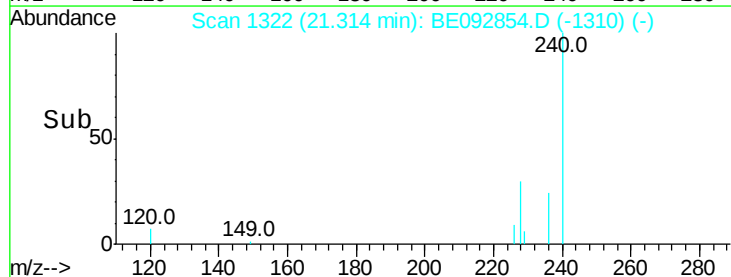
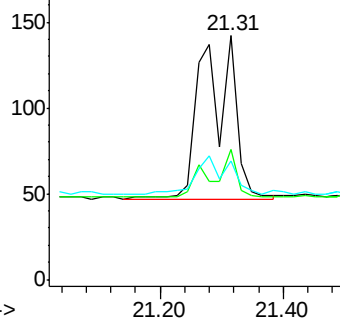


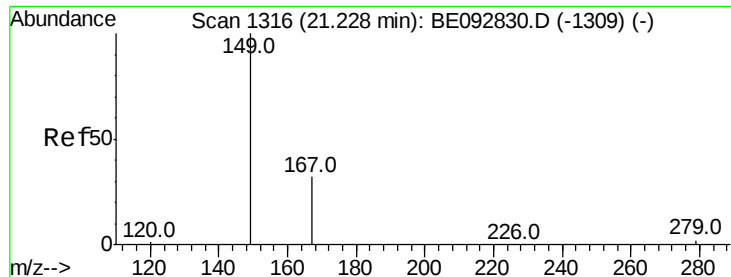
#28
Chrysene
Concen: 0.04 ng
RT: 21.31 min Scan# 1322
Delta R.T. -0.00 min
Lab File: BE092854.D
Acq: 29 Mar 2017 2:24

Tgt Ion:228 Resp: 351
Ion Ratio Lower Upper
228 100
226 53.5 36.3 54.5
229 48.6 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





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.20 ng

RT: 21.21 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

Instrument :

BNA_E

ClientSampleId :

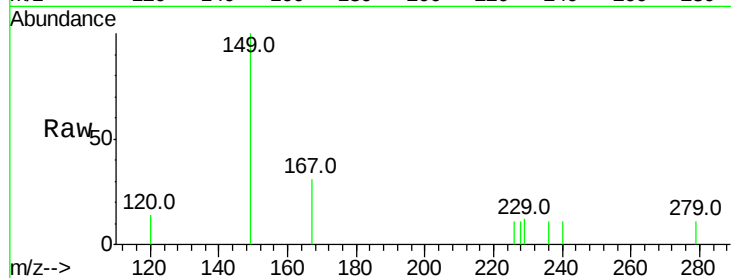
Tot Ion:149 Resp: 440

Ion Ratio Lower Upper

149 100

167 23.6 16.0 24.0

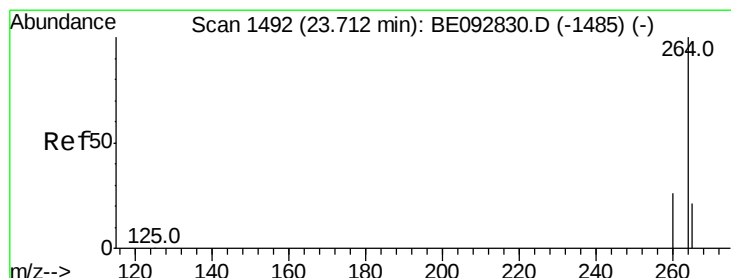
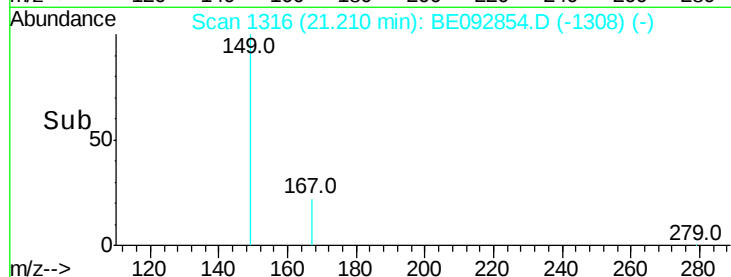
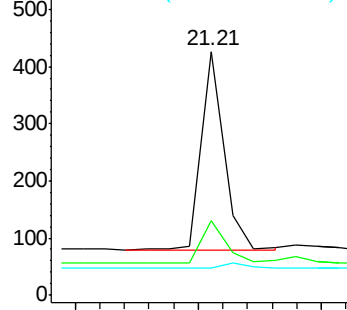
279 3.4 16.0 24.0#



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



#31

Perylene-d12

Concen: 5.00 ng

RT: 23.70 min Scan# 1492

Delta R.T. -0.01 min

Lab File: BE092854.D

Acq: 29 Mar 2017 2:24

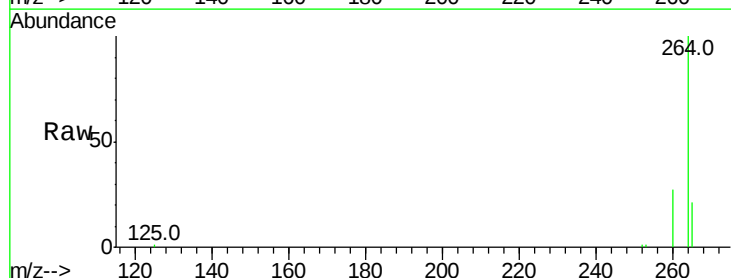
Tgt Ion:264 Resp: 29410

Ion Ratio Lower Upper

264 100

260 26.5 20.1 30.1

265 21.1 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

