

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050517\
 Data File : BE092955.D
 Acq On : 6 May 2017 6:58
 Operator : SJ/MA
 Sample : I2893-13
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

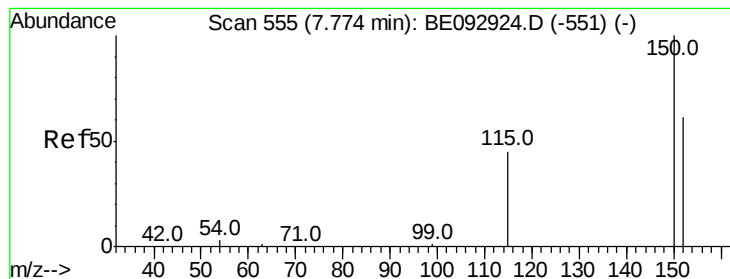
Quant Time: May 08 04:29:27 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE050517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 05 14:05:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	903	0.40	ng	0.00
7) Naphthalene-d8	10.53	136	4024	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	2184	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	5179	0.40	ng	0.00
26) Chrysene-d12	21.28	240	6189	0.40	ng	0.00
33) Perylene-d12	23.70	264	5261	0.40	ng	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	411	0.20	ng	0.00
5) Phenol-d6	6.94	99	347	0.12	ng	0.00
8) Nitrobenzene-d5	8.90	82	1215	0.45	ng	0.00
11) 2-Methylnaphthalene-d10	12.13	152	2213	0.37	ng	0.00
14) 2,4,6-Tribromophenol	15.88	330	264	0.77	ng	0.01
15) 2-Fluorobiphenyl	13.01	172	3616	0.36	ng	0.00
24) Fluoranthene-d10	19.15	212	5646	0.47	ng	0.00
28) Terphenyl-d14	19.74	244	3890	0.36	ng	0.00

Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.61	42	67	0.05	ng	# 1
6) bis(2-Chloroethyl)ether	7.13	93	334	0.10	ng	# 30
9) Naphthalene	10.58	128	355	0.03	ng	# 70
12) 2-Methylnaphthalene	12.19	142	171	0.03	ng	# 75
16) Acenaphthylene	14.10	152	1161	0.03	ng	# 74
17) Acenaphthene	14.45	154	213	0.03	ng	# 57
18) Fluorene	15.43	166	330	0.04	ng	# 52
21) Pentachlorophenol	16.79	266	36	0.21	ng	# 97
22) Phenanthrene	17.18	178	1368	0.09	ng	# 66
23) Anthracene	17.27	178	373	0.03	ng	# 11
25) Fluoranthene	19.17	202	4080	0.06	ng	# 58
27) Pyrene	19.53	202	7671	0.10	ng	# 47
29) Benzo(a)anthracene	21.27	228	629	0.04	ng	# 1
30) Chrysene	21.27	228	629	0.03	ng	# 1
31) Bis(2-ethylhexyl)phthalate	21.20	149	2905	0.73	ng	# 49

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



#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.77 min Scan# 555

Delta R.T. -0.00 min

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ClientSampleId :

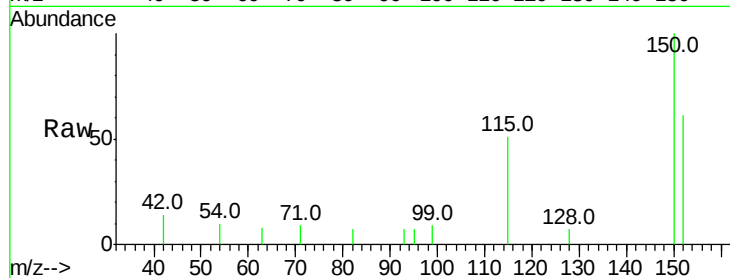
Tot Ion:152 Resp: 903

Ion Ratio Lower Upper

152 100

150 164.5 129.9 194.9

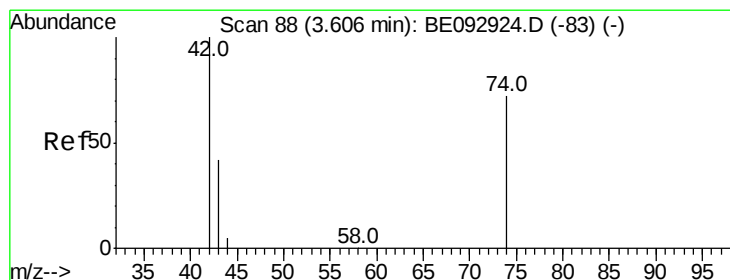
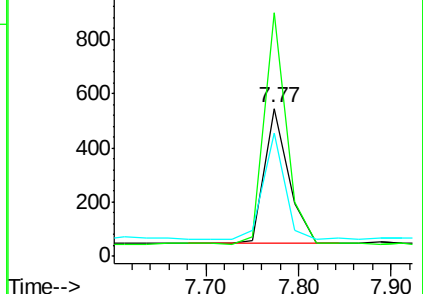
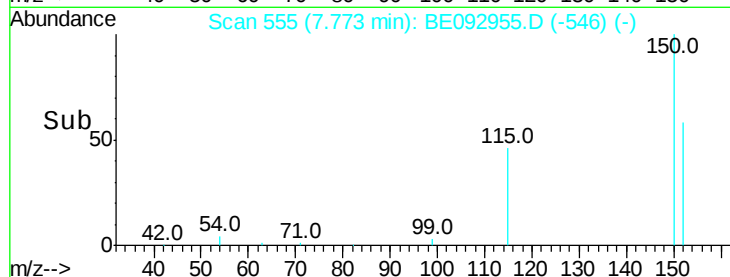
115 83.2 62.6 93.8



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



#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.61 min Scan# 88

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

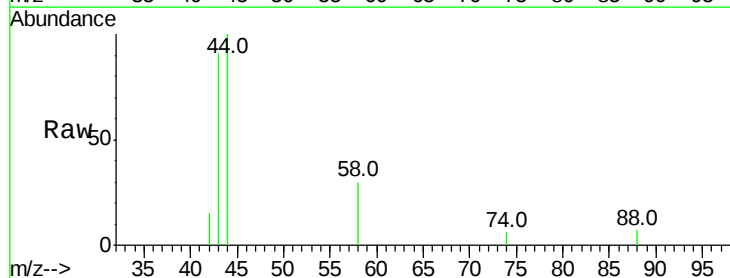
Tgt Ion: 42 Resp: 67

Ion Ratio Lower Upper

42 100

74 0.0 106.6 160.0#

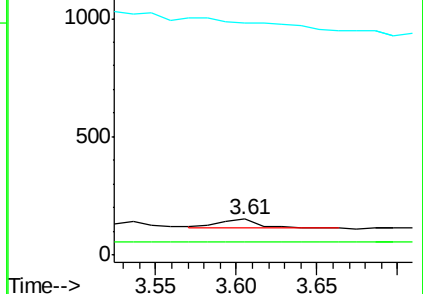
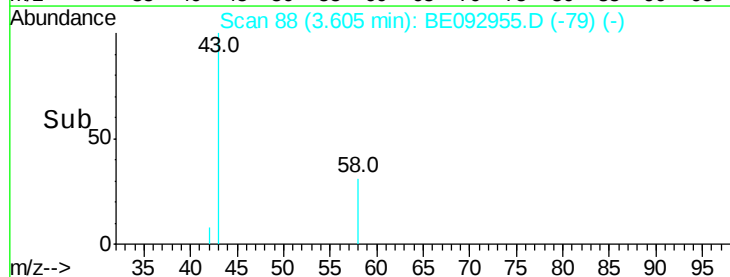
44 0.0 25.7 38.5#

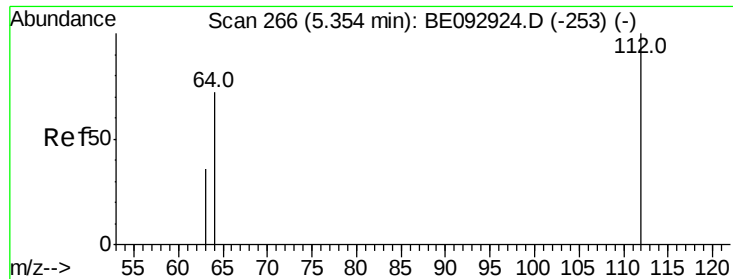


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.20 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.01 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

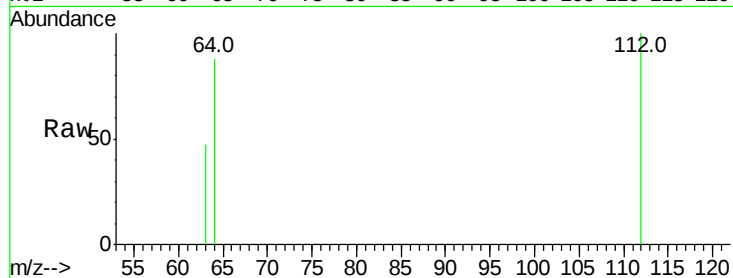
Tot Ion:112 Resp: 411

Ion Ratio Lower Upper

112 100

64 68.4 52.6 79.0

63 34.8 29.0 43.4



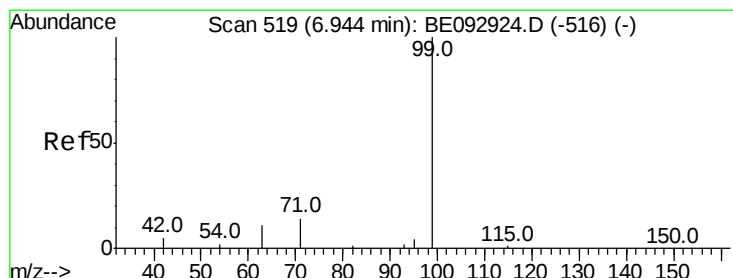
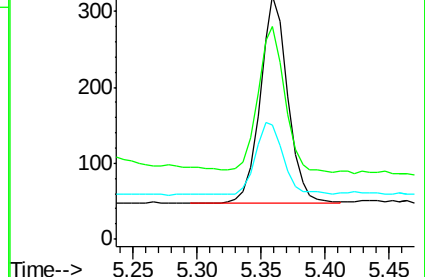
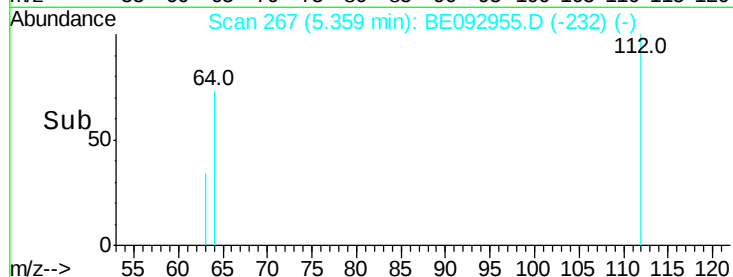
Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

5.36

Time-->



#5

Phenol-d6

Concen: 0.12 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

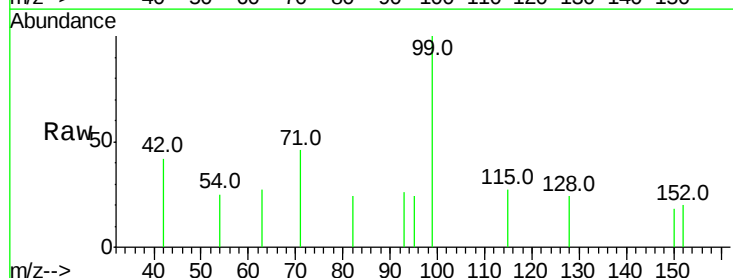
Tgt Ion: 99 Resp: 347

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

71 23.1 0.0 0.0#



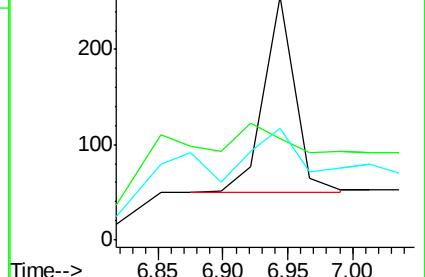
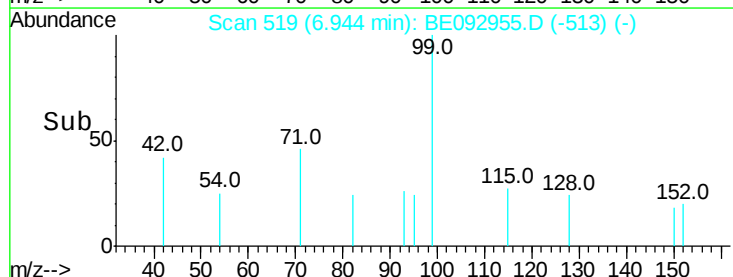
Abundance Ion 99.00 (98.70 to 99.70): BE0

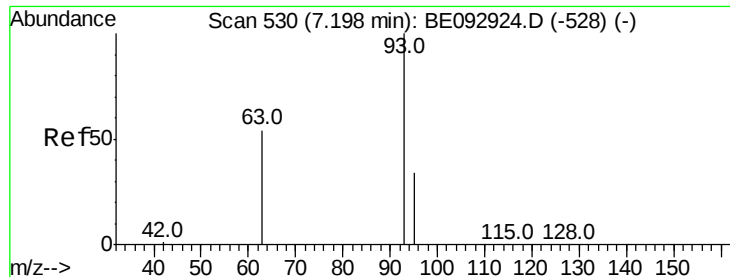
Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

6.94

Time-->





#6

bis(2-Chloroethyl)ether

Concen: 0.10 ng

RT: 7.13 min Scan# 527

Delta R.T. -0.07 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

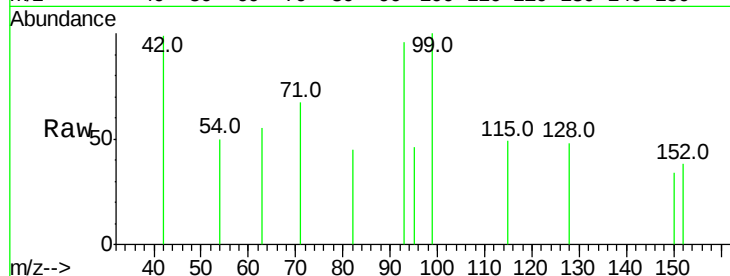
Tot Ion: 93 Resp: 334

Ion Ratio Lower Upper

93 100

63 11.7 61.2 91.8#

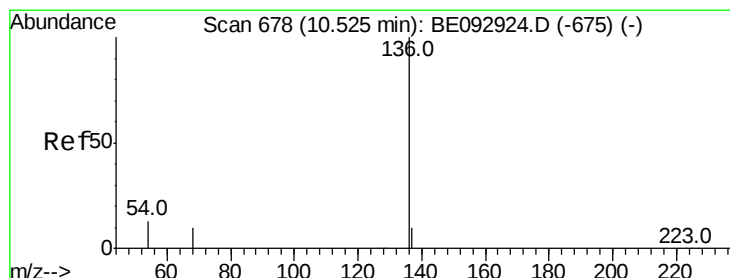
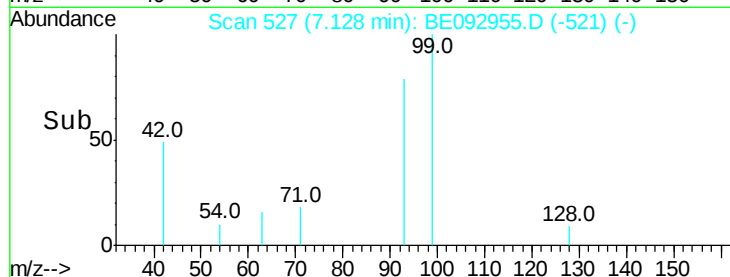
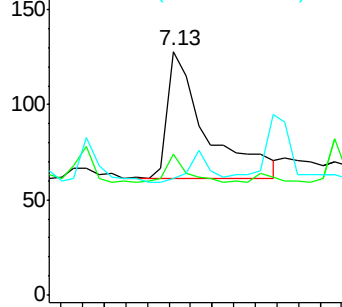
95 0.0 25.5 38.3#



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: 10.53 min Scan# 678

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Tgt Ion: 136 Resp: 4024

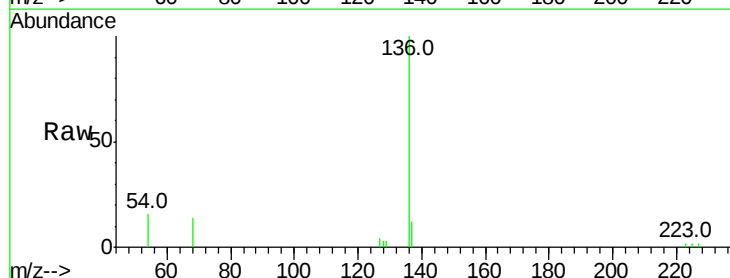
Ion Ratio Lower Upper

136 100

137 12.3 10.4 15.6

54 15.5 12.6 18.8

68 13.7 10.7 16.1

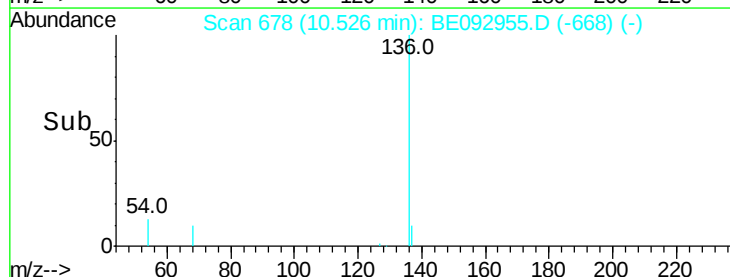
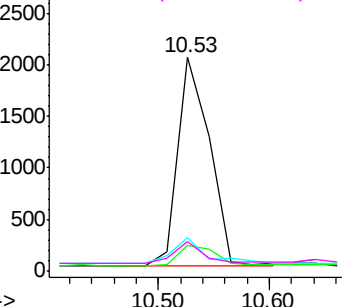


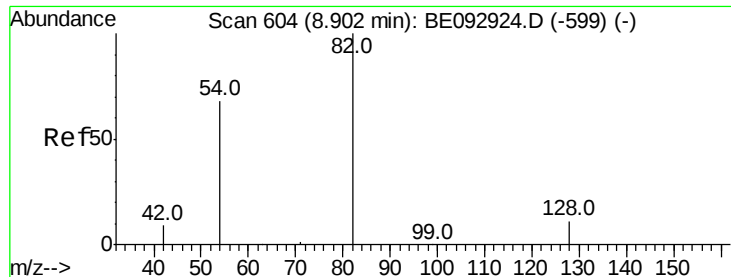
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.45 ng

RT: 8.90 min Scan# 604

Delta R.T. -0.00 min

Lab File: BE092955.D

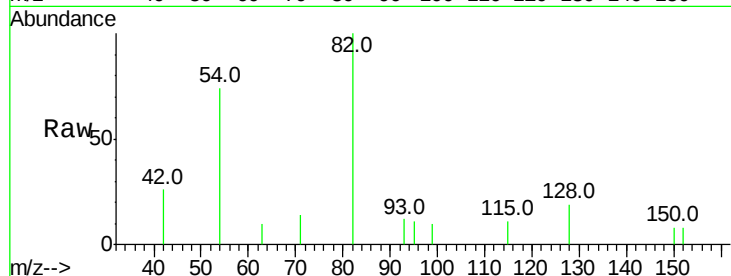
Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

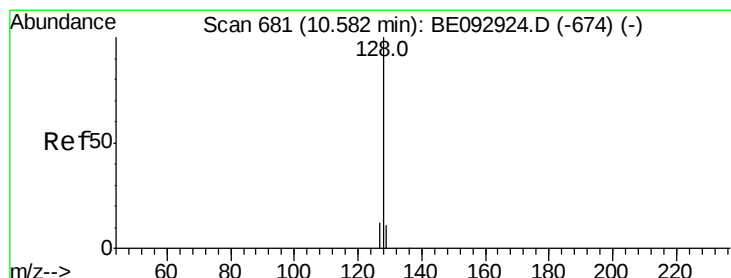
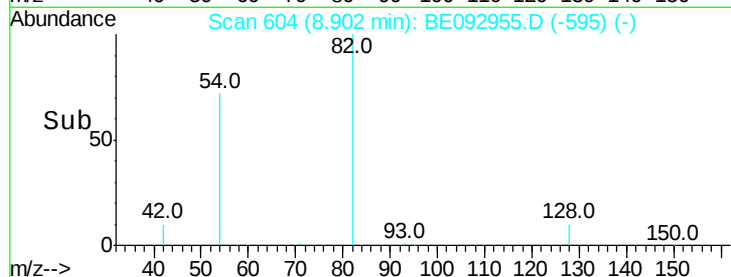
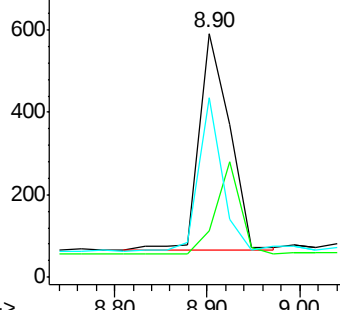
Tot Ion:	82	Resp:	1215
Ion	Ratio	Lower	Upper
82	100		
128	19.1	35.3	52.9#
54	73.6	65.1	97.7



Abundance Ion 82.00 (81.70 to 82.70): BE092924.D (-599) (-)

Ion 128.00 (127.70 to 128.70): BE092924.D (-599) (-)

Ion 54.00 (53.70 to 54.70): BE092924.D (-599) (-)



#9

Naphthalene

Concen: 0.03 ng

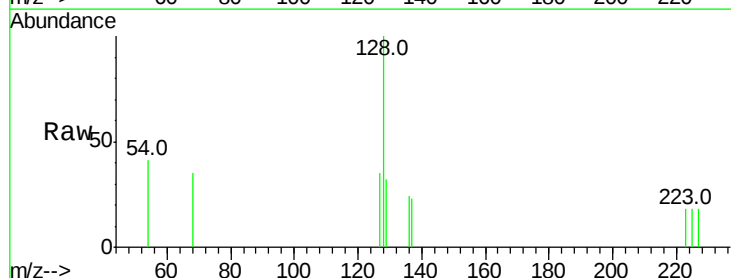
RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

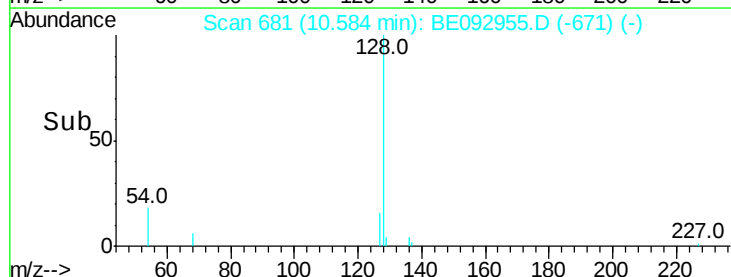
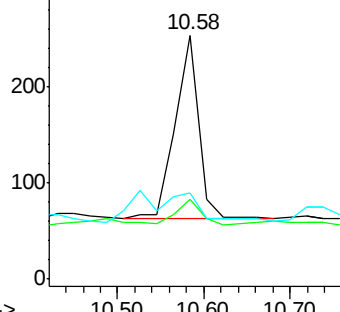
Tgt Ion:	128	Resp:	355
Ion	Ratio	Lower	Upper
128	100		
129	32.4	15.8	23.8#
127	35.2	16.0	24.0#

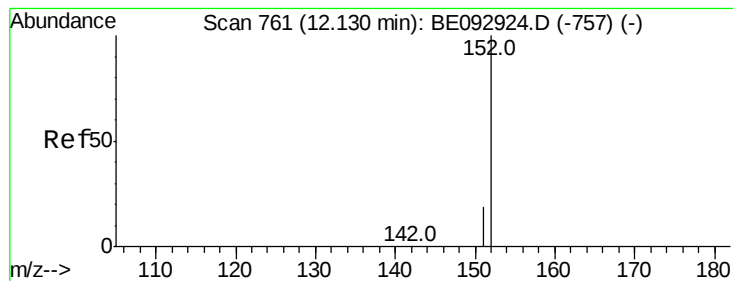


Abundance Ion 128.00 (127.70 to 128.70): BE092924.D (-674) (-)

Ion 129.00 (128.70 to 129.70): BE092924.D (-674) (-)

Ion 127.00 (126.70 to 127.70): BE092924.D (-674) (-)

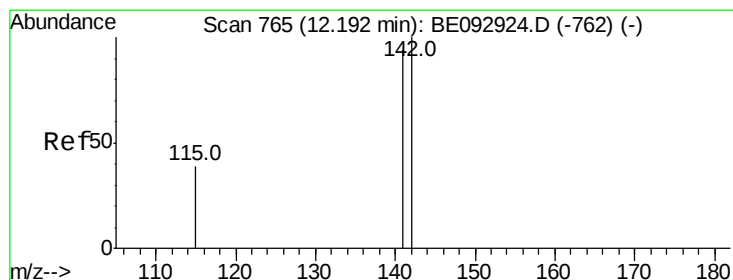
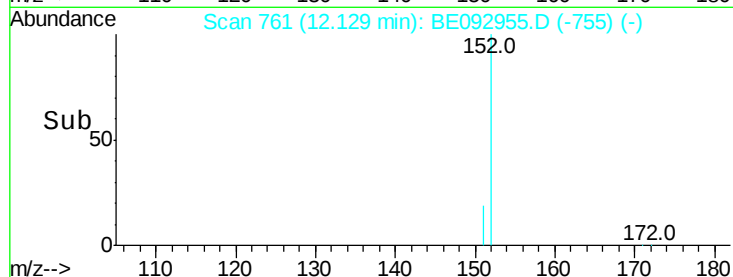
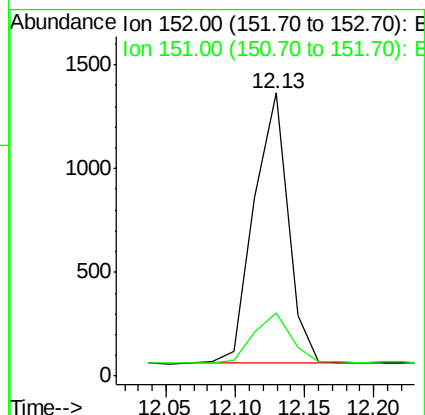
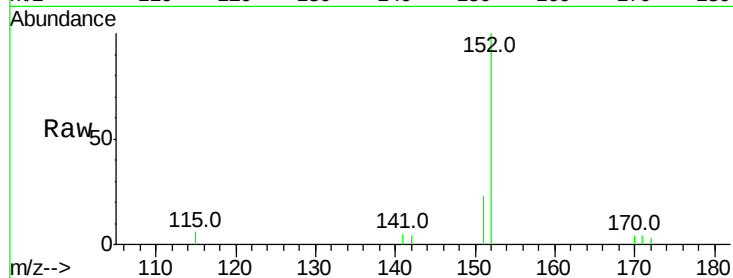




#11
2-Methylnaphthalene-d10
Concen: 0.37 ng
RT: 12.13 min Scan# 761
Delta R.T. -0.00 min
Lab File: BE092955.D
Acq: 6 May 2017 6:58

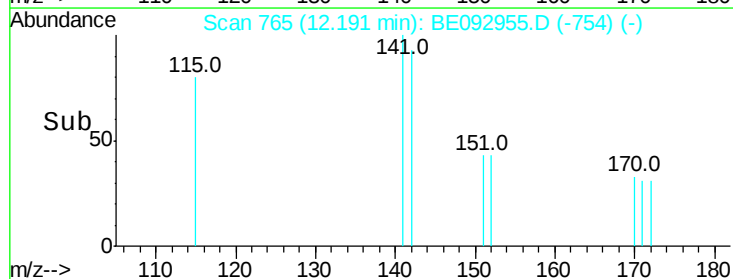
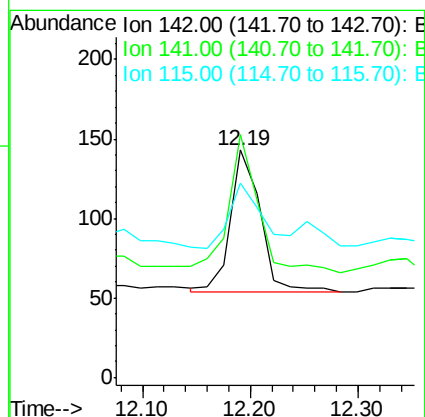
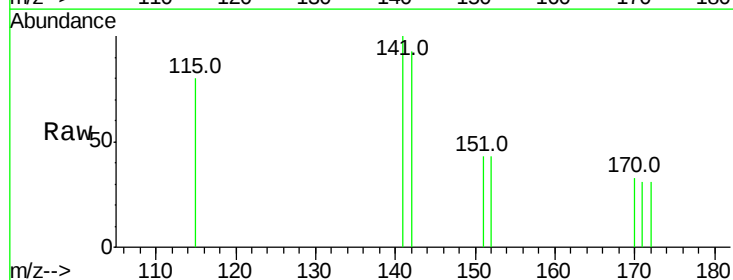
Instrument :
BNA_E
ClientSampleId :

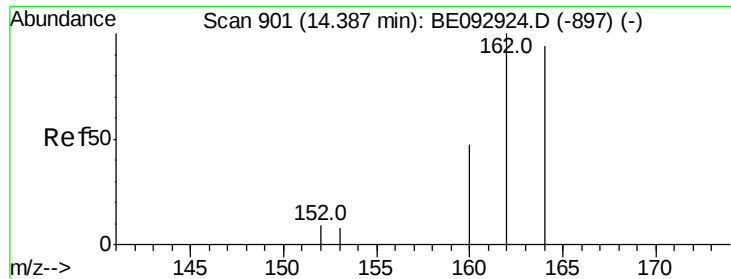
Tot Ion:152 Resp: 2213
Ion Ratio Lower Upper
152 100
151 20.4 15.7 23.5



#12
2-Methylnaphthalene
Concen: 0.03 ng
RT: 12.19 min Scan# 765
Delta R.T. -0.00 min
Lab File: BE092955.D
Acq: 6 May 2017 6:58

Tgt Ion:142 Resp: 171
Ion Ratio Lower Upper
142 100
141 107.0 76.0 114.0
115 85.3 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: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

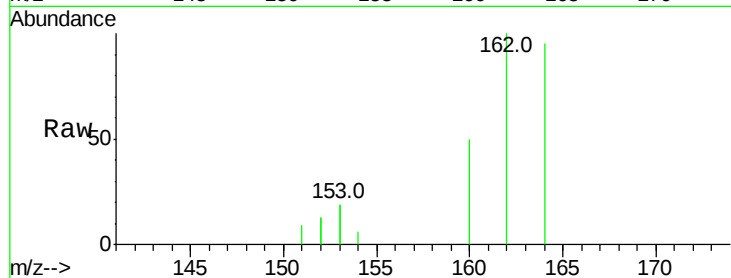
Tot Ion:164 Resp: 2184

Ion Ratio Lower Upper

164 100

162 105.2 86.6 130.0

160 53.1 44.5 66.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

14.39

1500

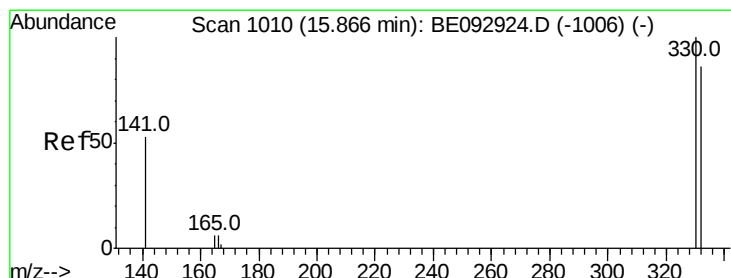
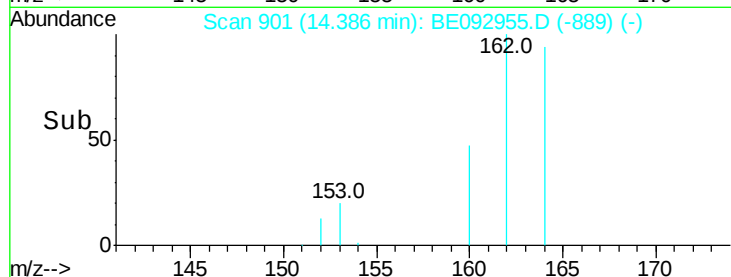
1000

500

0

Time-->

14.20 14.30 14.40 14.50



#14

2,4,6-Tribromophenol

Concen: 0.77 ng

RT: 15.88 min Scan# 1011

Delta R.T. 0.01 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

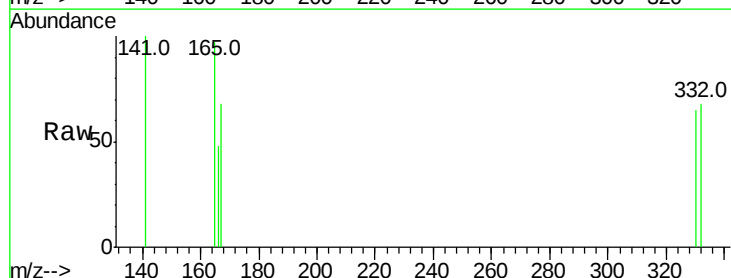
Tgt Ion:330 Resp: 264

Ion Ratio Lower Upper

330 100

332 99.6 69.1 103.7

141 100.4 54.6 81.8#



Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

15.88

400

300

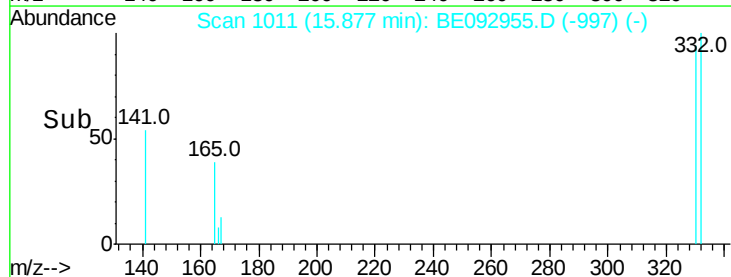
200

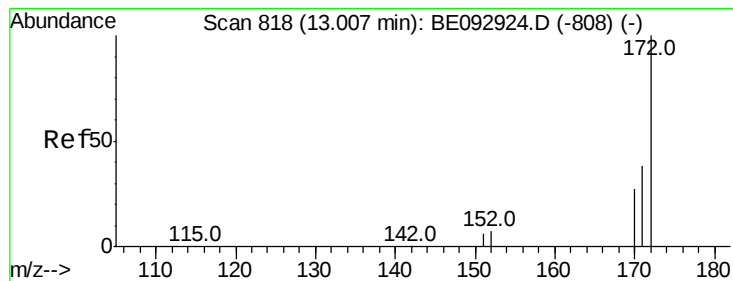
100

0

Time-->

15.70 15.80 15.90





#15

2-Fluorobiphenyl

Concen: 0.36 ng

RT: 13.01 min Scan# 818

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

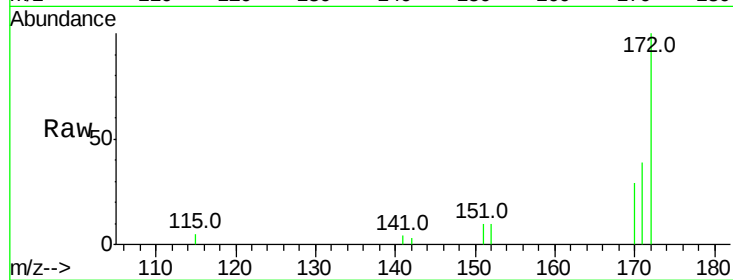
Tot Ion:172 Resp: 3616

Ion Ratio Lower Upper

172 100

171 39.4 35.8 53.6

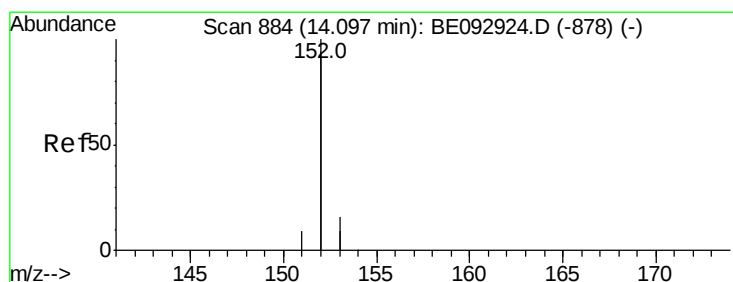
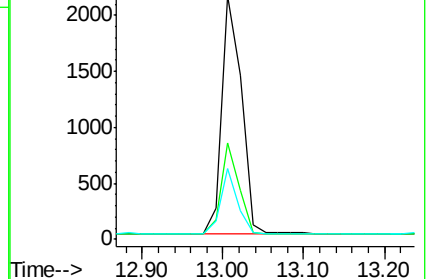
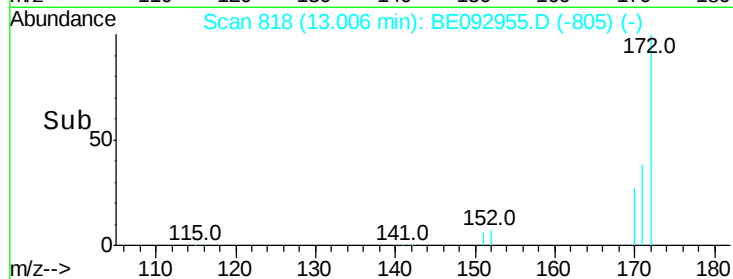
170 29.1 28.5 42.7



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: 0.03 ng

RT: 14.10 min Scan# 884

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

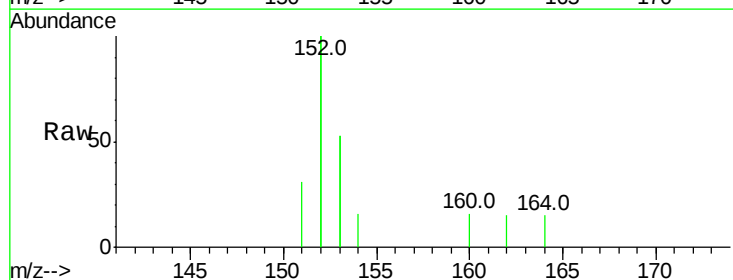
Tgt Ion:152 Resp: 1161

Ion Ratio Lower Upper

152 100

151 9.0 3.8 5.8#

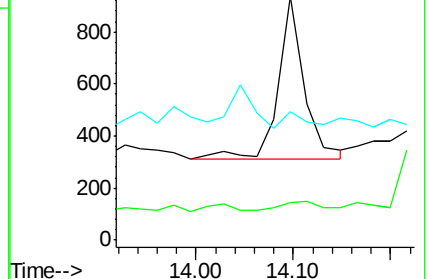
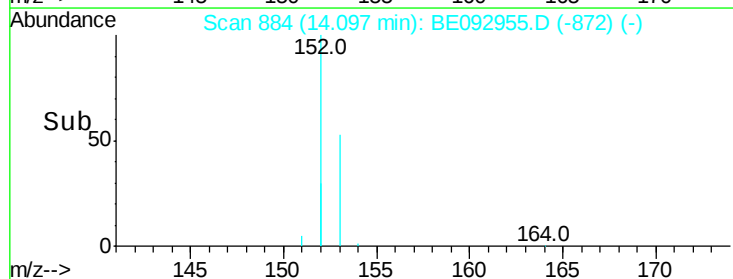
153 0.0 10.0 15.0#

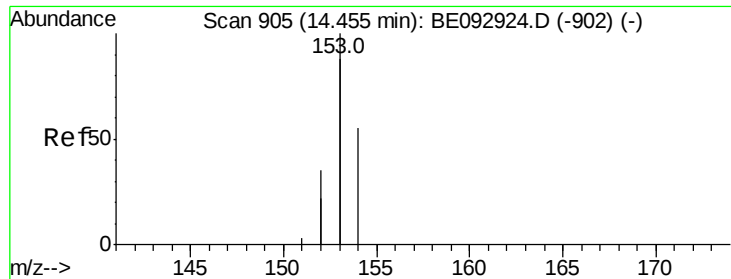


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.03 ng

RT: 14.45 min Scan# 905

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampled :

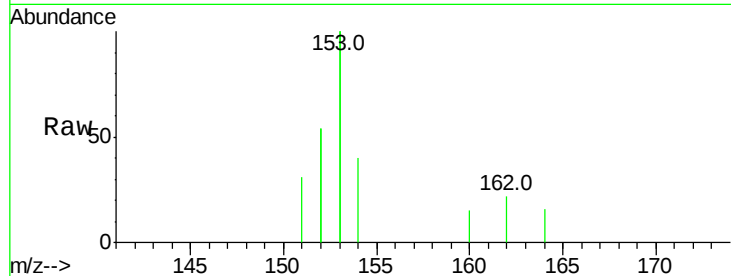
Tot Ion:154 Resp: 213

Ion Ratio Lower Upper

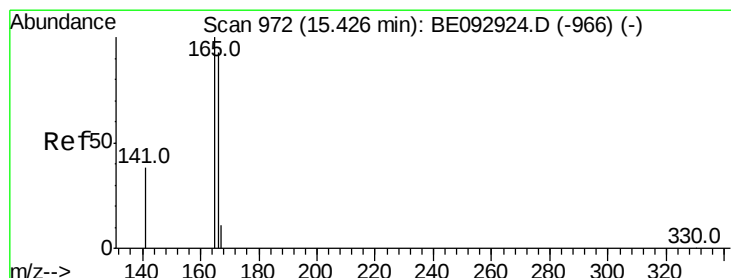
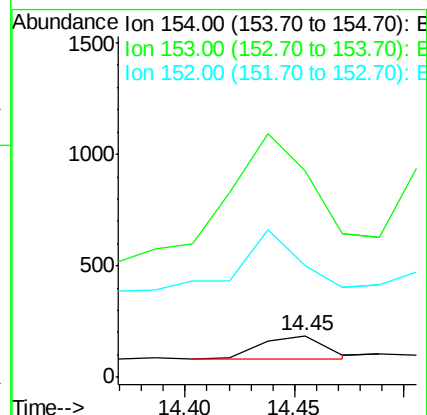
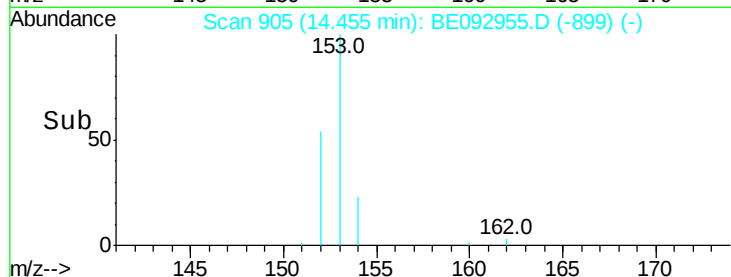
154 100

153 604.7 355.6 533.4#

152 228.6 177.8 266.8



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



#18

Fluorene

Concen: 0.04 ng

RT: 15.43 min Scan# 972

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

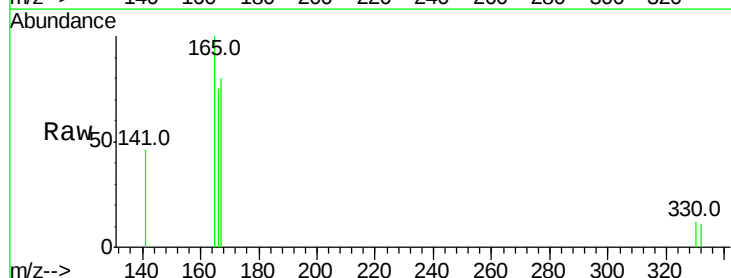
Tgt Ion:166 Resp: 330

Ion Ratio Lower Upper

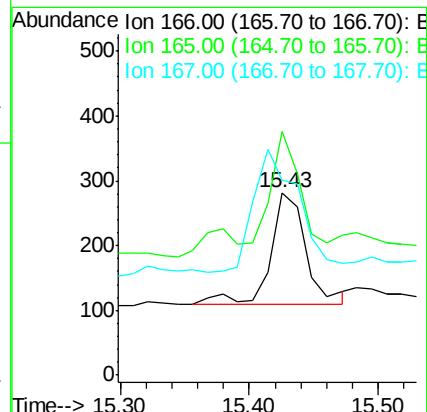
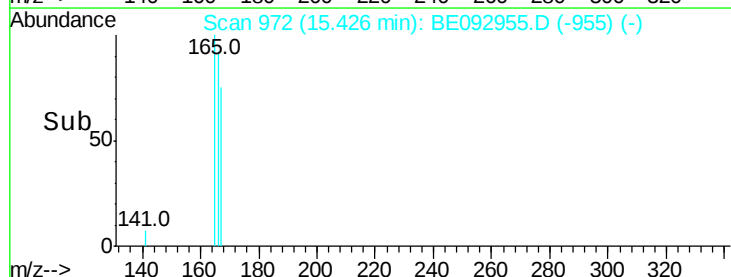
166 100

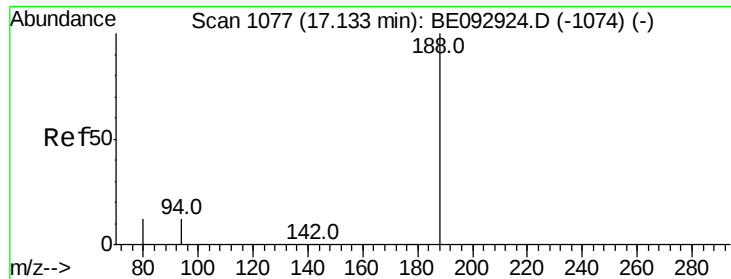
165 90.3 80.7 121.1

167 143.3 11.3 16.9#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

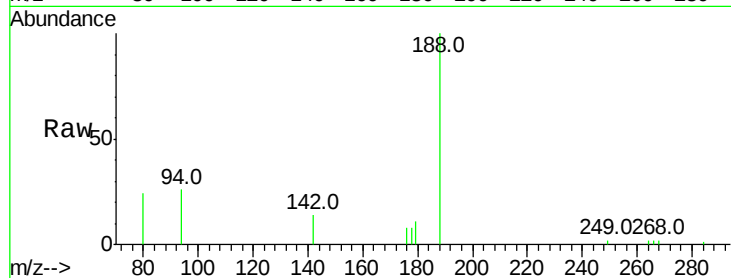
Tot Ion:188 Resp: 5179

Ion Ratio Lower Upper

188 100

94 25.6 10.2 15.4#

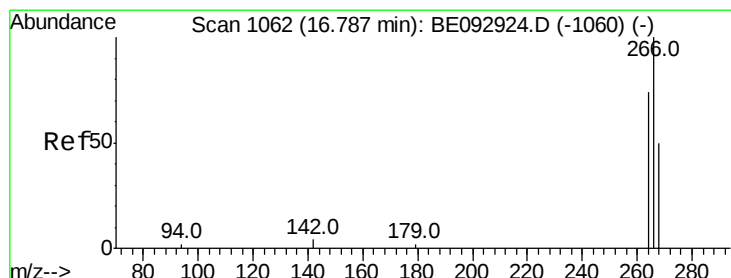
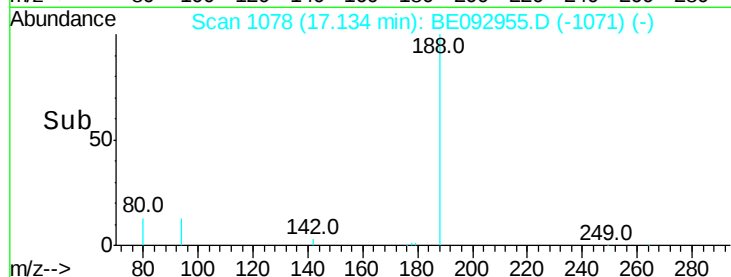
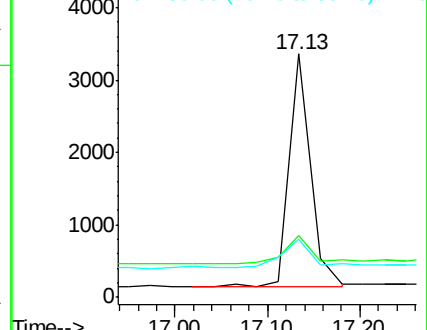
80 23.9 10.6 15.8#



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



#21

Pentachlorophenol

Concen: 0.21 ng

RT: 16.79 min Scan# 1063

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

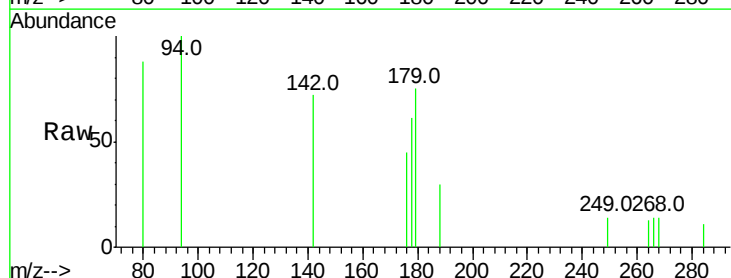
Tgt Ion:266 Resp: 36

Ion Ratio Lower Upper

266 100

264 91.8 75.4 113.2

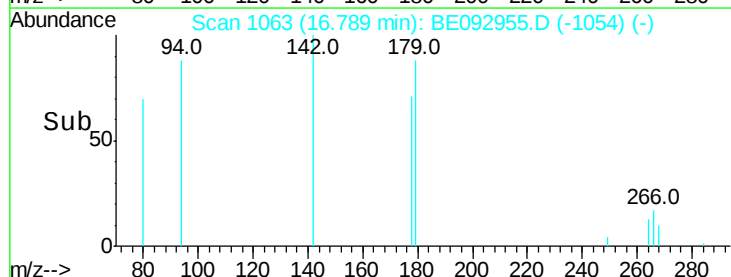
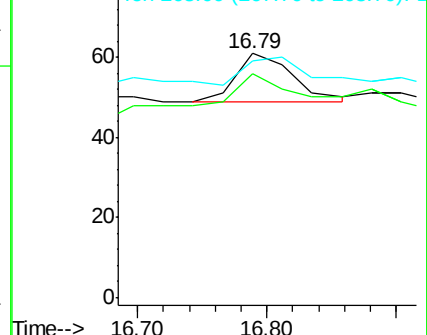
268 96.7 75.4 113.2

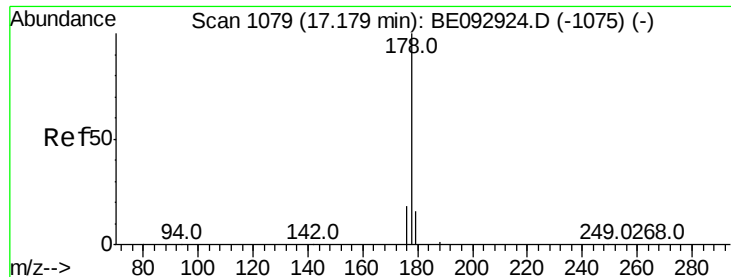


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#22

Phenanthrene

Concen: 0.09 ng

RT: 17.18 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

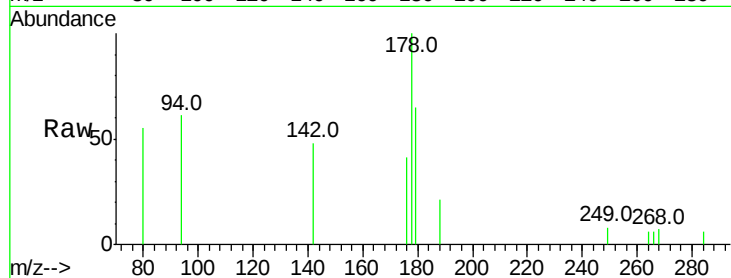
Tot Ion:178 Resp: 1368

Ion Ratio Lower Upper

178 100

176 16.7 14.2 21.4

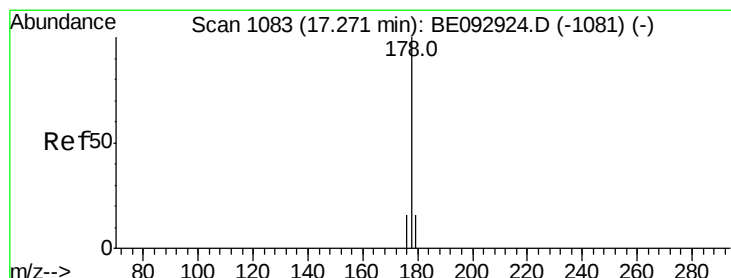
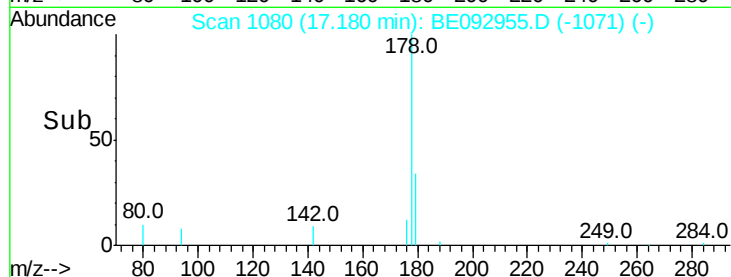
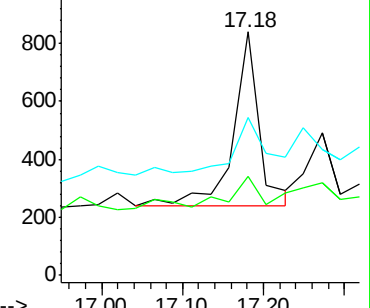
179 46.3 13.6 20.4#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 0.03 ng

RT: 17.27 min Scan# 1084

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

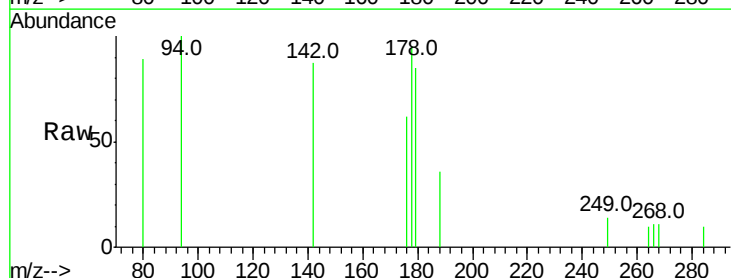
Tgt Ion:178 Resp: 373

Ion Ratio Lower Upper

178 100

176 78.3 14.7 22.1#

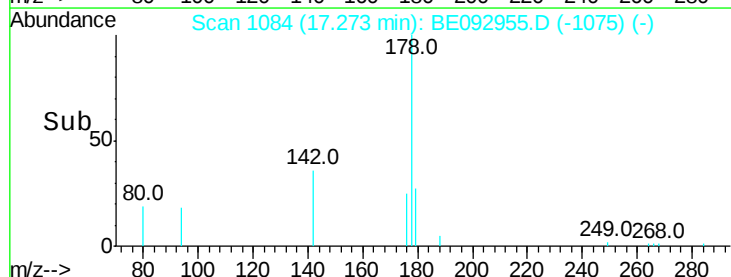
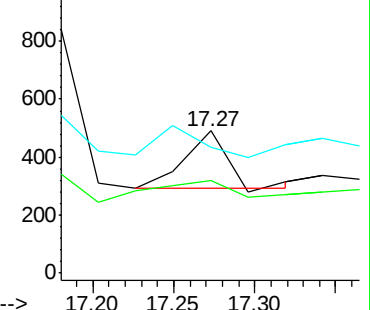
179 0.0 12.8 19.2#

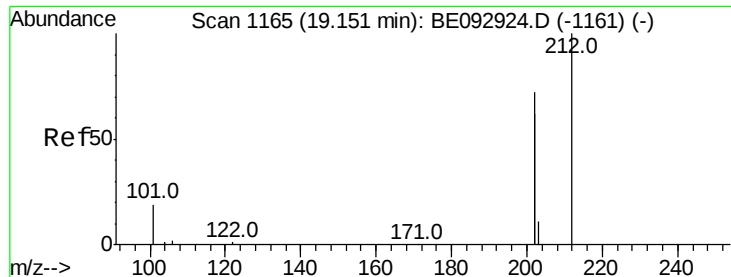


Abundance Ion 178.00 (177.70 to 178.70): E

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# 1165

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

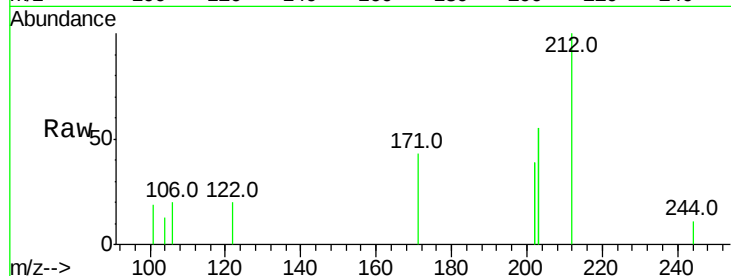
Tot Ion:212 Resp: 5646

Ion Ratio Lower Upper

212 100

106 0.0 0.0 0.0

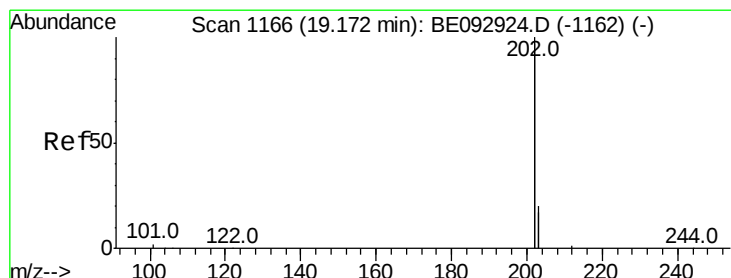
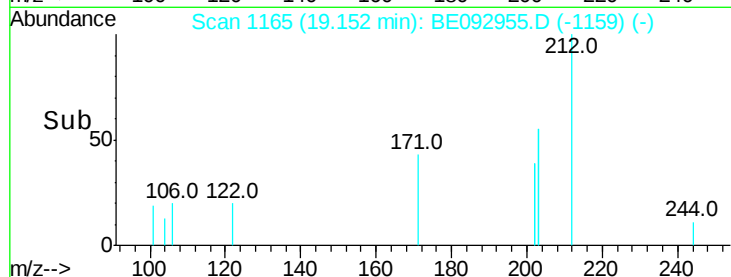
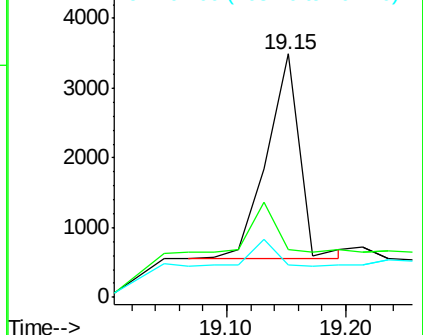
104 0.0 0.0 0.0



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



#25

Fluoranthene

Concen: 0.06 ng

RT: 19.17 min Scan# 1166

Delta R.T. 0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

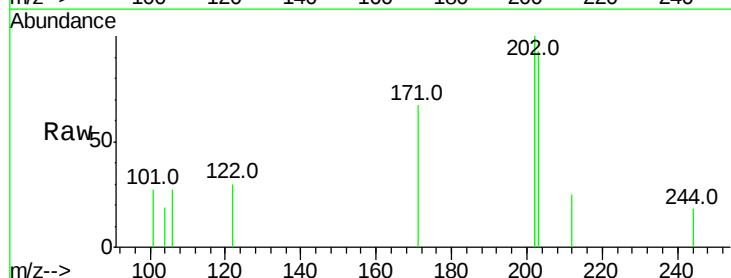
Tgt Ion:202 Resp: 4080

Ion Ratio Lower Upper

202 100

101 0.0 0.0 0.0

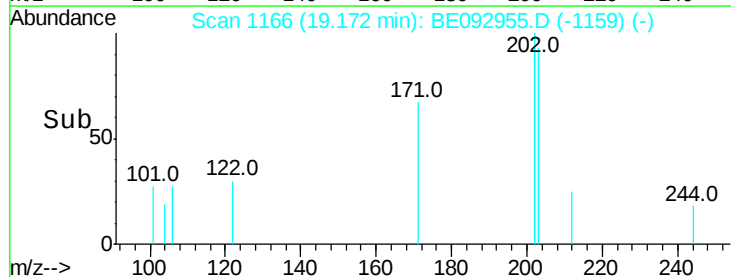
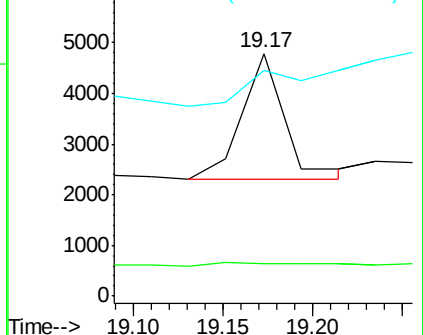
203 0.0 15.3 22.9#

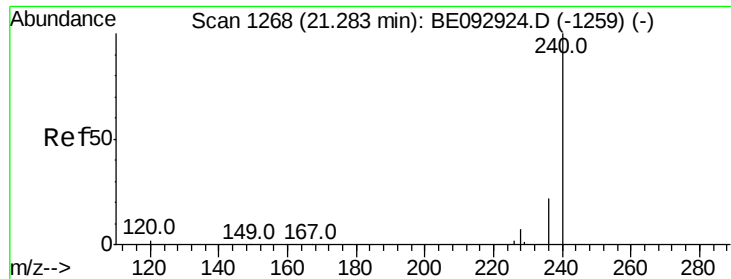


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

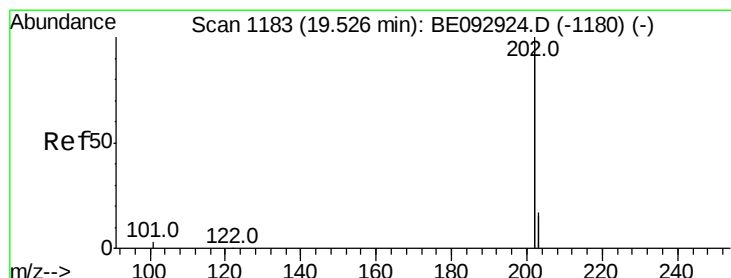
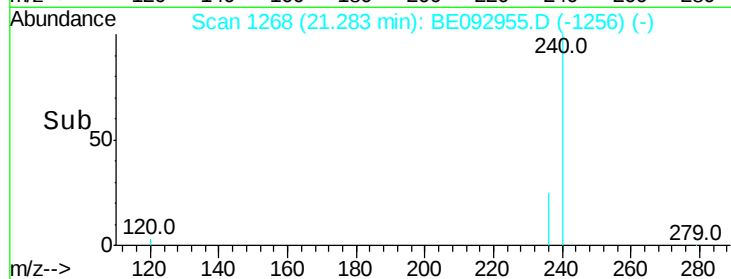
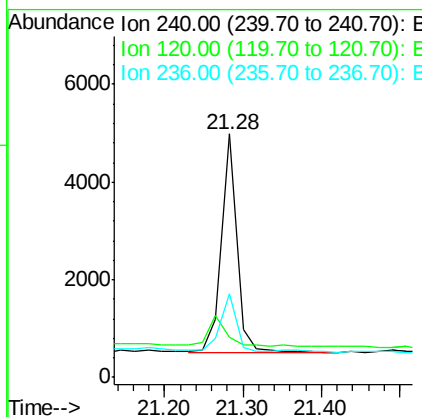
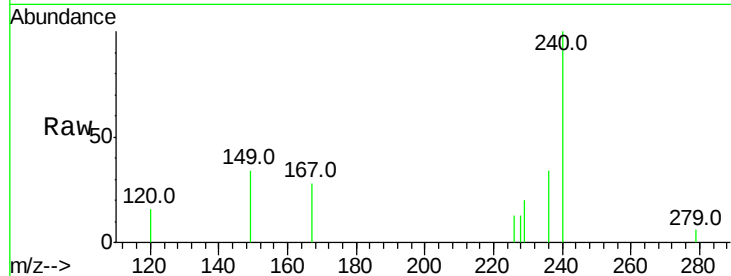




#26
 Chrysene-d12
 Concen: 0.40 ng
 RT: 21.28 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: BE092955.D
 Acq: 6 May 2017 6:58

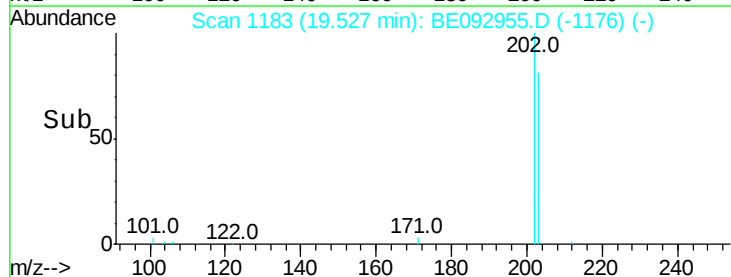
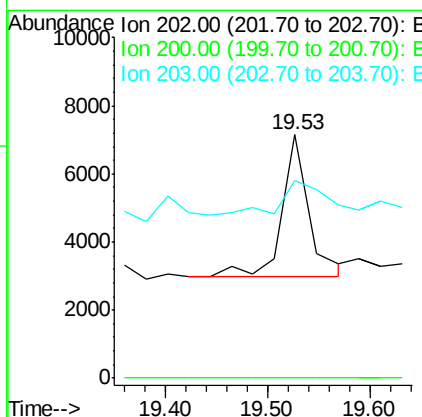
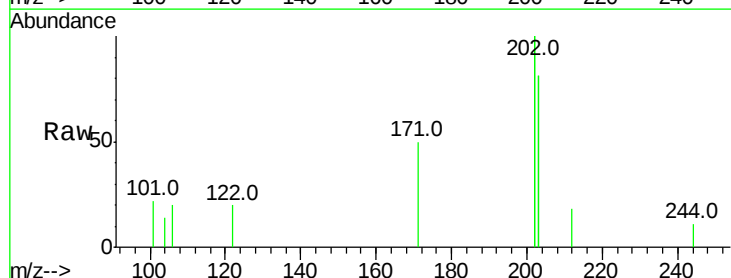
Instrument :
 BNA_E
 ClientSampleId :

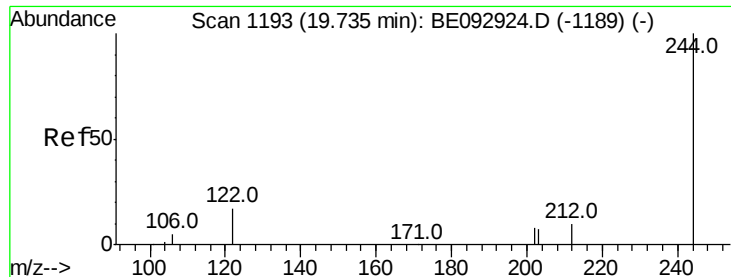
Tot Ion:240 Resp: 6189
 Ion Ratio Lower Upper
 240 100
 120 16.2 4.6 6.8#
 236 34.4 19.8 29.8#



#27
 Pyrene
 Concen: 0.10 ng
 RT: 19.53 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: BE092955.D
 Acq: 6 May 2017 6:58

Tgt Ion:202 Resp: 7671
 Ion Ratio Lower Upper
 202 100
 200 0.0 0.0 0.0
 203 39.9 13.5 20.3#





#28

Terphenyl-d14

Concen: 0.36 ng

RT: 19.74 min Scan# 1193

Delta R.T. 0.00 min

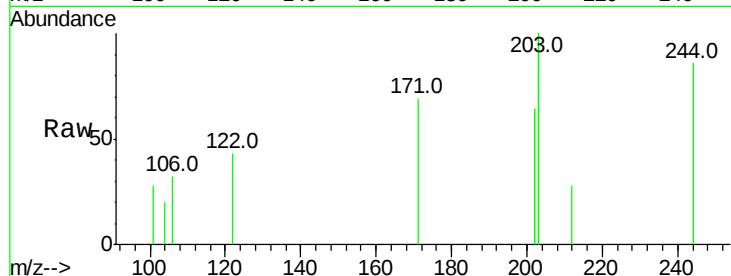
Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :



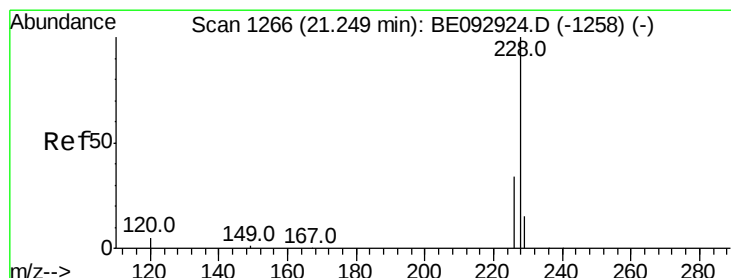
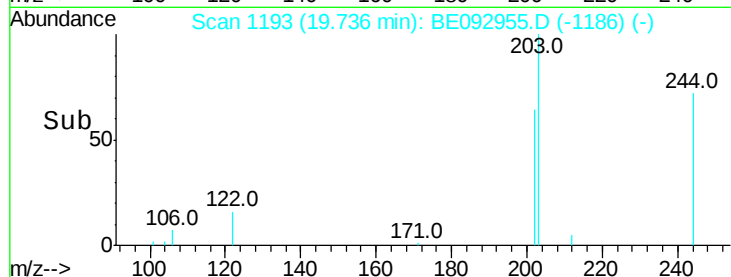
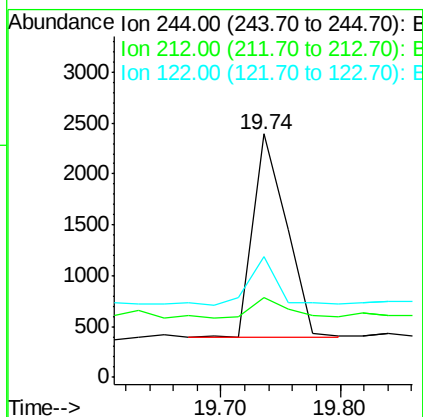
Tot Ion:244 Resp: 3890

Ion Ratio Lower Upper

244 100

212 32.6 18.4 27.6#

122 49.4 23.3 34.9#



#29

Benzo(a)anthracene

Concen: 0.04 ng

RT: 21.27 min Scan# 1267

Delta R.T. 0.02 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

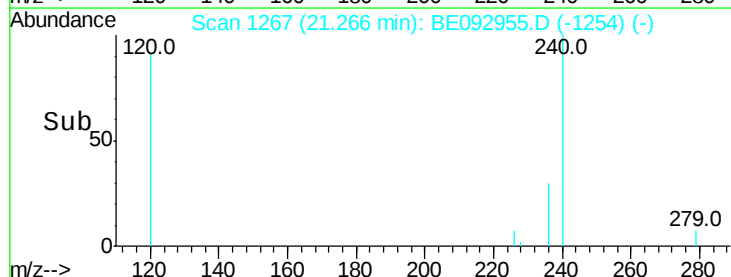
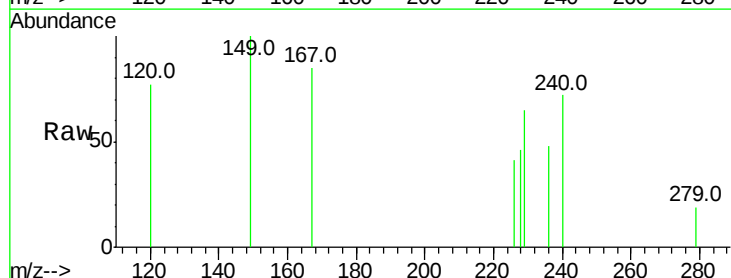
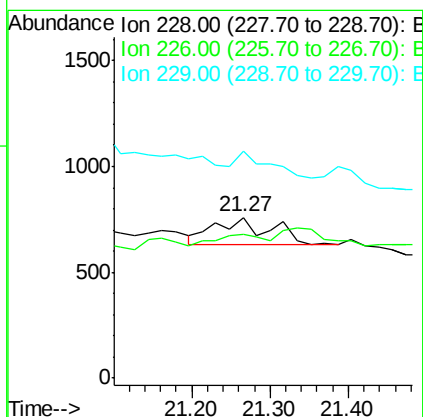
Tgt Ion:228 Resp: 629

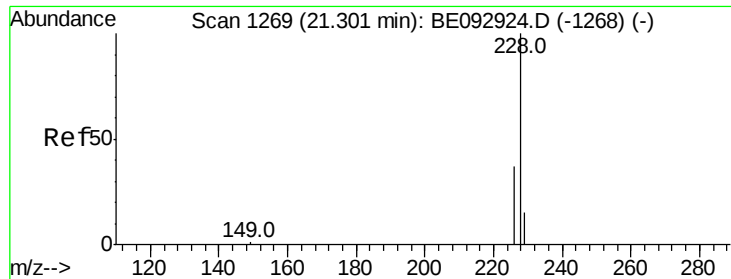
Ion Ratio Lower Upper

228 100

226 89.3 32.0 48.0#

229 141.1 21.4 32.0#





#30

Chrysene

Concen: 0.03 ng

RT: 21.27 min Scan# 1267

Delta R.T. -0.04 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

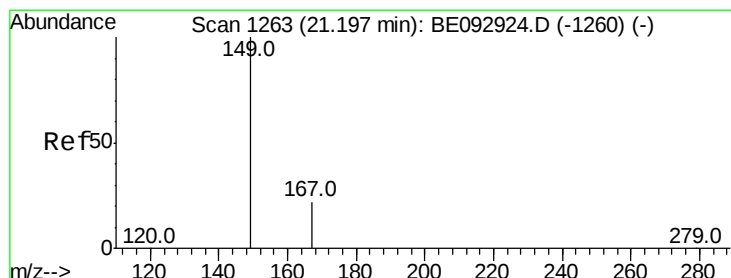
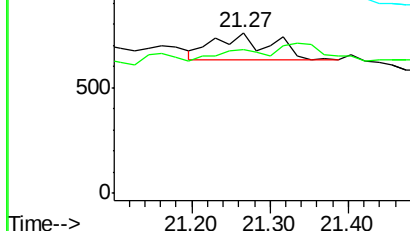
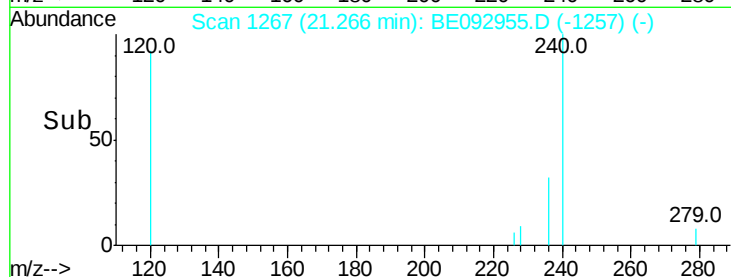
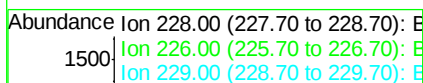
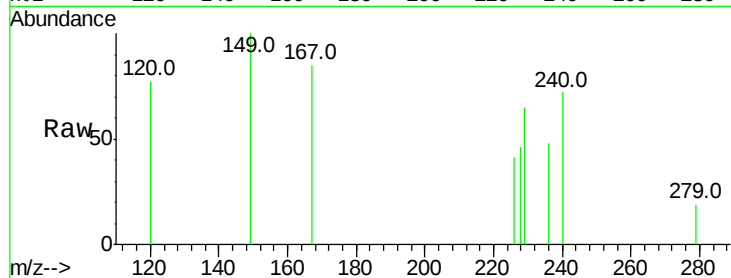
Tot Ion:228 Resp: 629

Ion Ratio Lower Upper

228 100

226 89.3 34.2 51.2#

229 141.1 18.6 28.0#



#31

Bis(2-ethylhexyl)phthalate

Concen: 0.73 ng

RT: 21.20 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

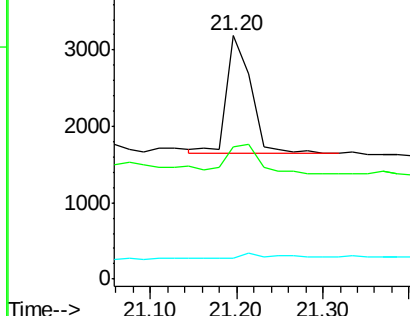
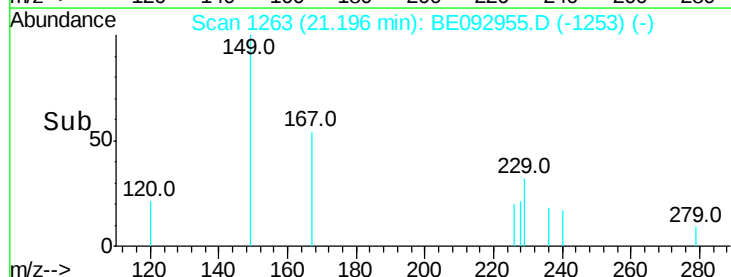
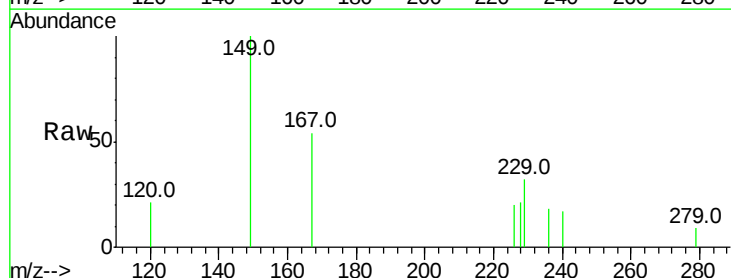
Tgt Ion:149 Resp: 2905

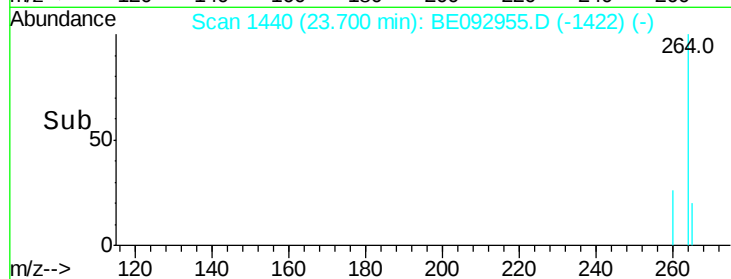
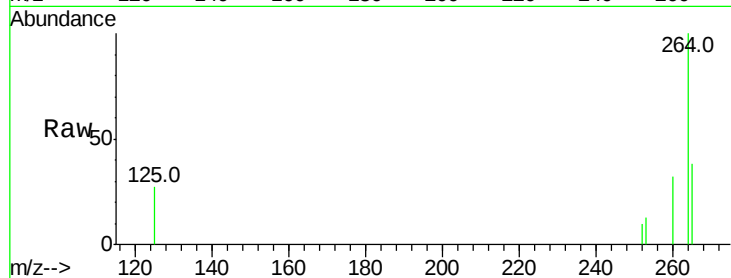
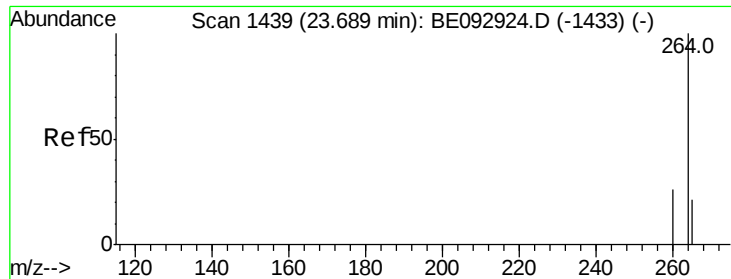
Ion Ratio Lower Upper

149 100

167 0.0 20.9 31.3#

279 0.0 0.0 0.0





#33

Pervlene-d12

Concen: 0.40 ng

RT: 23.70 min Scan# 1440

Delta R.T. 0.01 min

Lab File: BE092955.D

Acq: 6 May 2017 6:58

Instrument :

BNA_E

ClientSampleId :

Tot Ion:264 Resp: 5261

Ion Ratio Lower Upper

264 100

260 31.6 23.5 35.3

265 38.1 27.2 40.8

