

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050517\
 Data File : BE092948.D
 Acq On : 6 May 2017 2:35
 Operator : SJ/MA
 Sample : I2893-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 06 05:11:00 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	716	0.40	ng	0.00
7) Naphthalene-d8	10.52	136	3023	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	377	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	2538	0.40	ng	0.00
26) Chrysene-d12	21.28	240	39	0.40	ng	0.00
33) Perylene-d12	23.65	264	3	0.40	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	397	0.25	ng	0.00
5) Phenol-d6	6.94	99	777	0.35	ng	0.00
8) Nitrobenzene-d5	8.90	82	894	0.44	ng	0.00
11) 2-Methylnaphthalene-d10	12.13	152	1593	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.87	330	140	2.37	ng	0.00
15) 2-Fluorobiphenyl	13.01	172	3410	1.97	ng	0.00
24) Fluoranthene-d10	19.15	212	627	0.11	ng	0.00
28) Terphenyl-d14	19.74	244	2240	32.85	ng	0.00

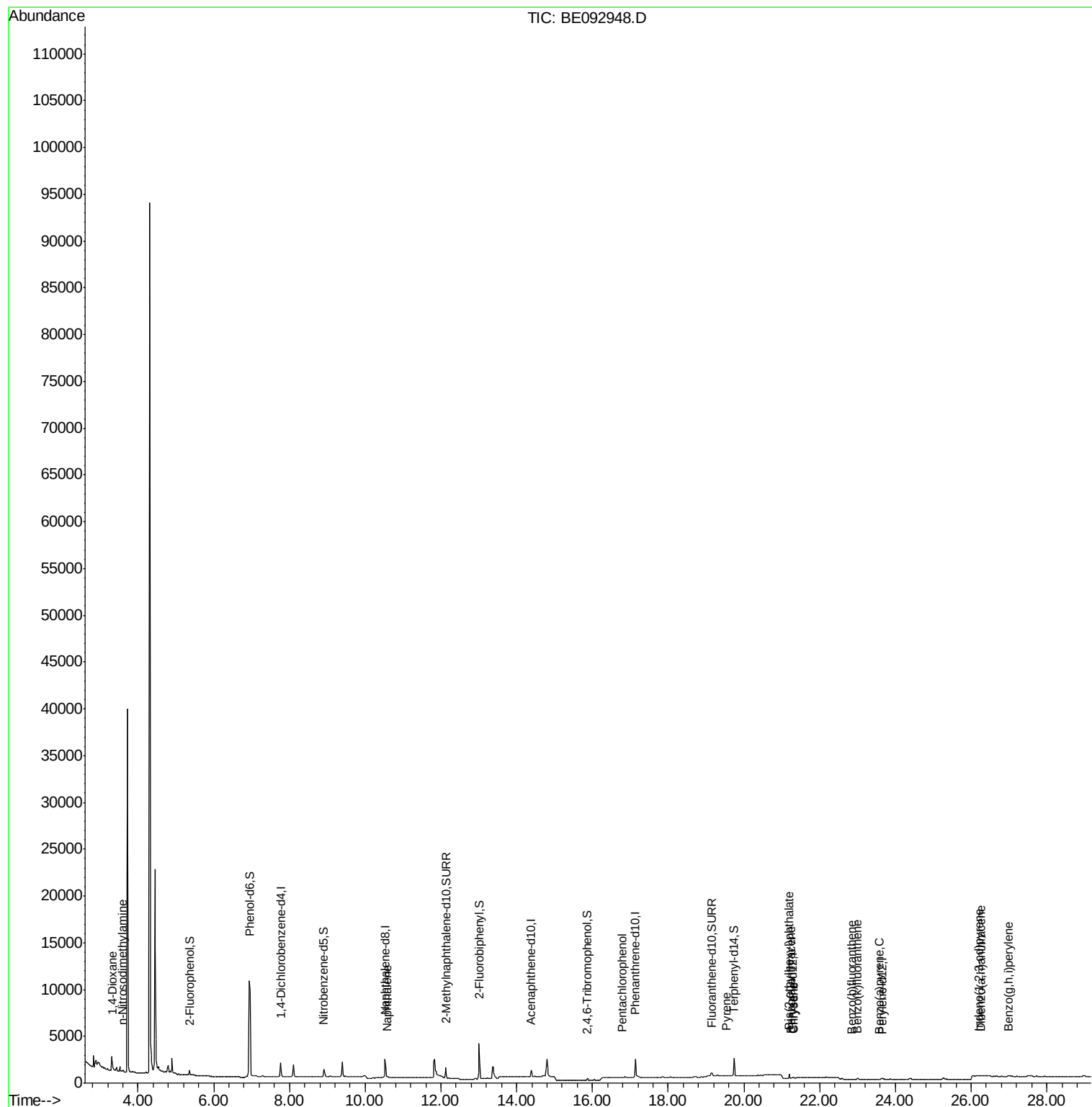
Target Compounds						Qvalue
2) 1,4-Dioxane	3.32	88	1363	0.99	ng	# 95
3) n-Nitrosodimethylamine	3.60	42	42	0.04	ng	# 1
9) Naphthalene	10.58	128	171	0.02	ng	# 44
21) Pentachlorophenol	16.79	266	11	0.19	ng	96
27) Pyrene	19.53	202	68	0.14	ng	# 71
29) Benzo(a)anthracene	21.25	228	4	0.04	ng	# 1
30) Chrysene	21.32	228	3	0.03	ng	# 1
31) Bis(2-ethylhexyl)phthalate	21.20	149	497	19.87	ng	# 95
32) Indeno(1,2,3-cd)pyrene	26.22	276	45	0.11	ng	# 67
34) Benzo(b)fluoranthene	22.86	252	1	0.10	ng	# 1
35) Benzo(k)fluoranthene	22.99	252	31	3.16	ng	# 1
36) Benzo(a)pyrene	23.57	252	10	1.25	ng	# 1
37) Dibenzo(a,h)anthracene	26.25	278	33	3.65	ng	# 1
38) Benzo(g,h,i)perylene	26.99	276	35	0.91	ng	# 1

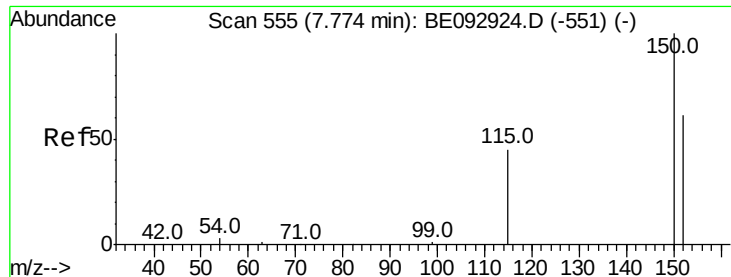
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampled :

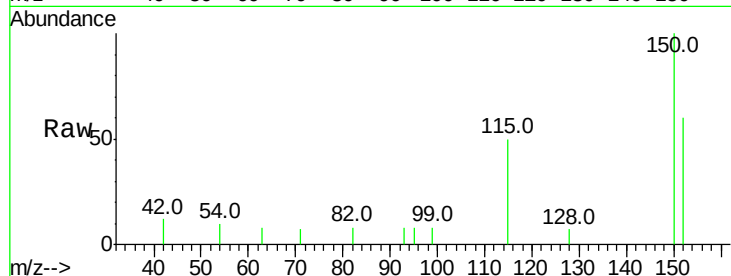
Tot Ion:152 Resp: 716

Ion Ratio Lower Upper

152 100

150 167.3 129.9 194.9

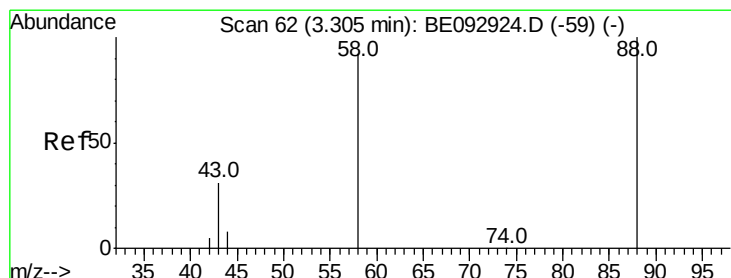
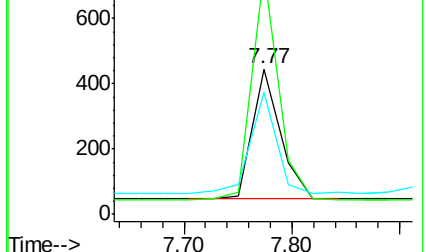
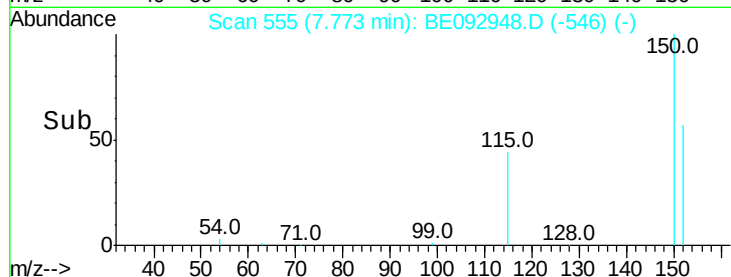
115 83.4 62.6 93.8



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: 0.99 ng

RT: 3.32 min Scan# 63

Delta R.T. 0.01 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

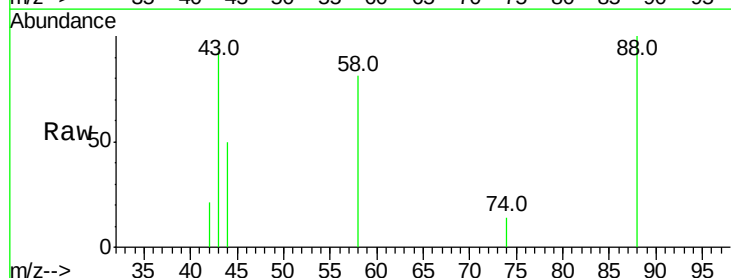
Tgt Ion: 88 Resp: 1363

Ion Ratio Lower Upper

88 100

58 79.4 64.9 97.3

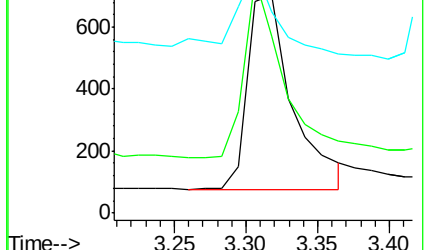
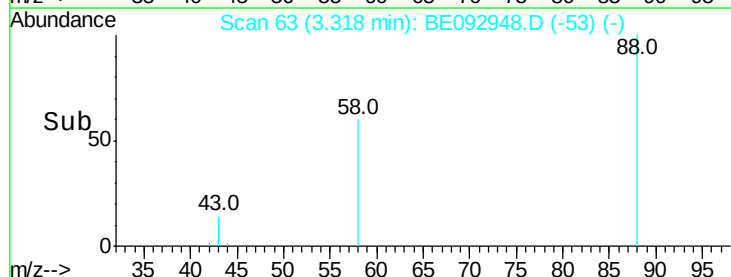
43 40.1 26.6 40.0#

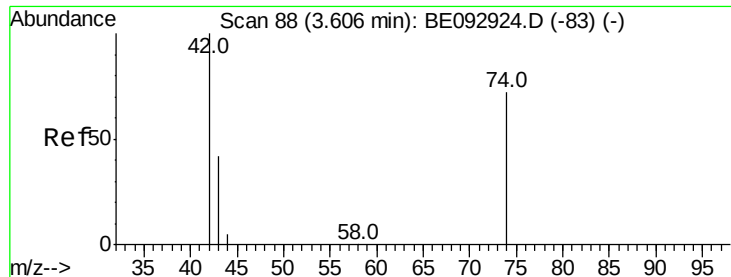


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.60 min Scan# 87

Delta R.T. -0.01 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

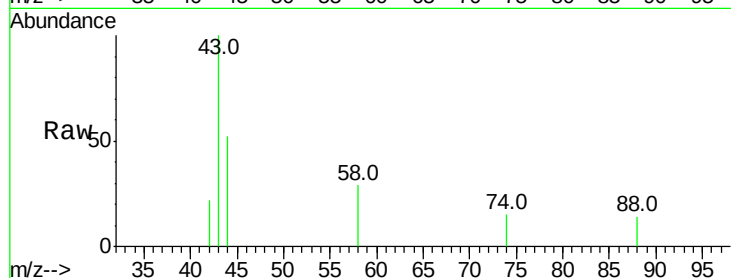
Tot Ion: 42 Resp: 42

Ion Ratio Lower Upper

42 100

74 0.0 106.6 160.0#

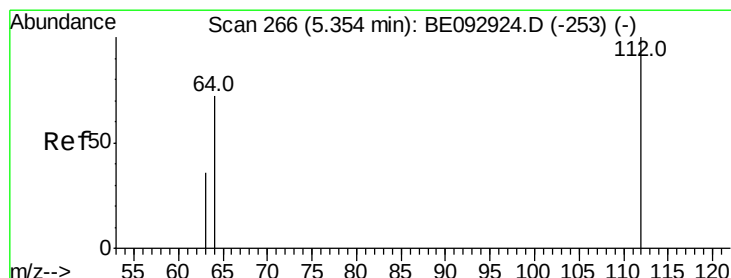
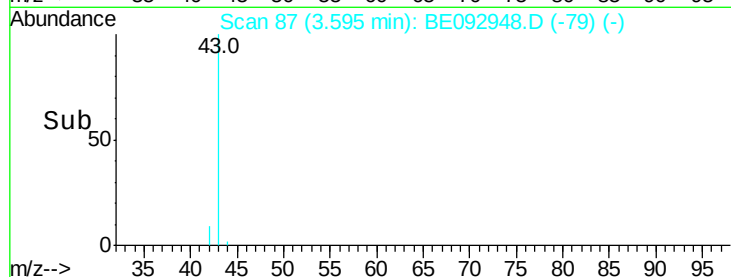
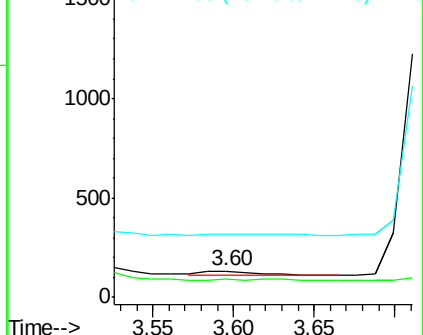
44 0.0 25.7 38.5#



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: 0.25 ng

RT: 5.36 min Scan# 267

Delta R.T. 0.01 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

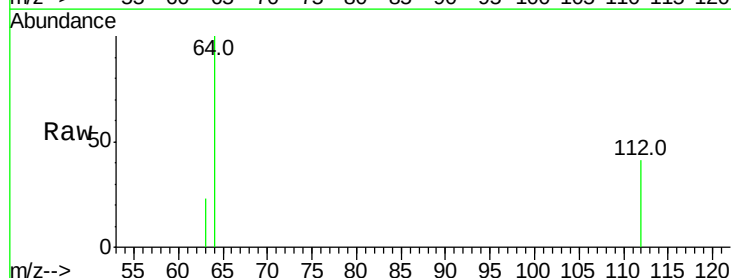
Tgt Ion: 112 Resp: 397

Ion Ratio Lower Upper

112 100

64 75.8 52.6 79.0

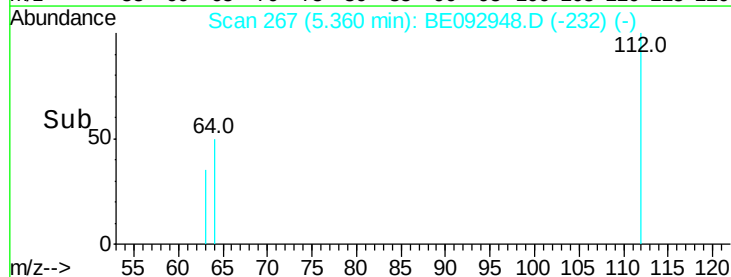
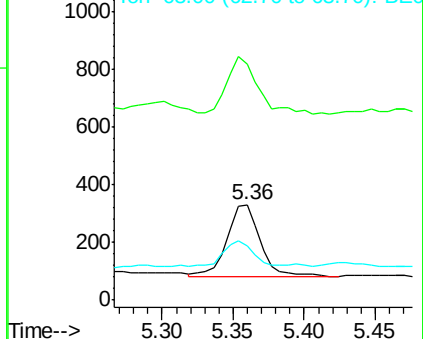
63 35.5 29.0 43.4

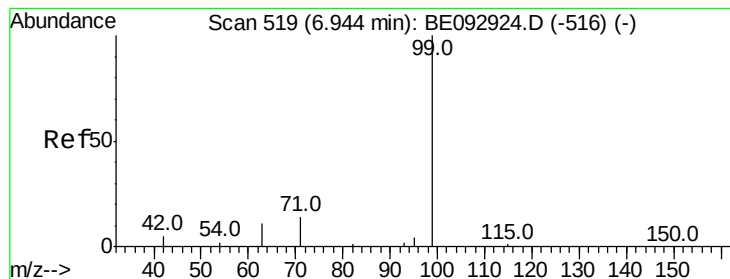


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.35 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

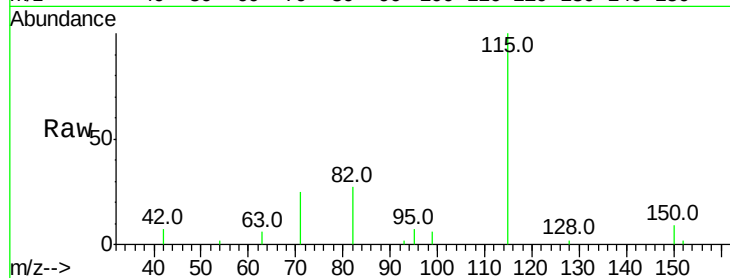
Tot Ion: 99 Resp: 777

Ion Ratio Lower Upper

99 100

42 77.2 0.0 0.0#

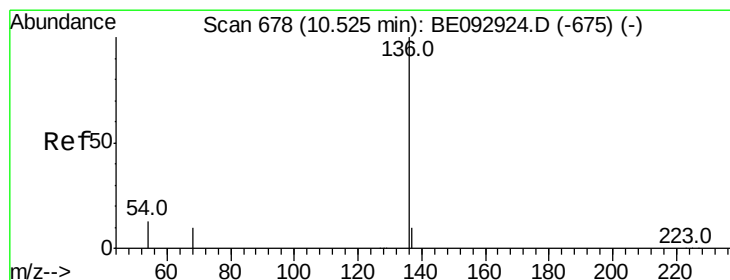
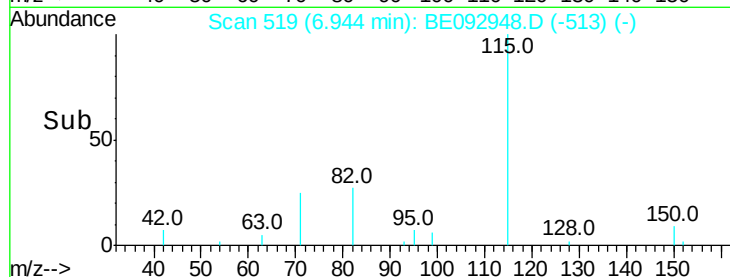
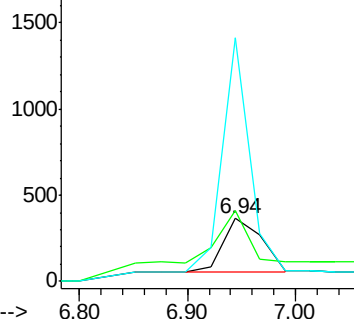
71 311.3 0.0 0.0#



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



#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.52 min Scan# 678

Delta R.T. -0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Tgt Ion: 136 Resp: 3023

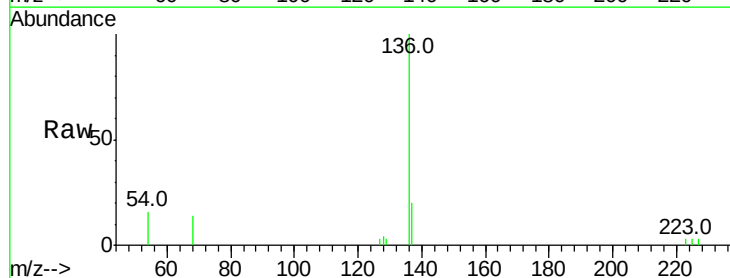
Ion Ratio Lower Upper

136 100

137 20.2 10.4 15.6#

54 16.3 12.6 18.8

68 14.3 10.7 16.1

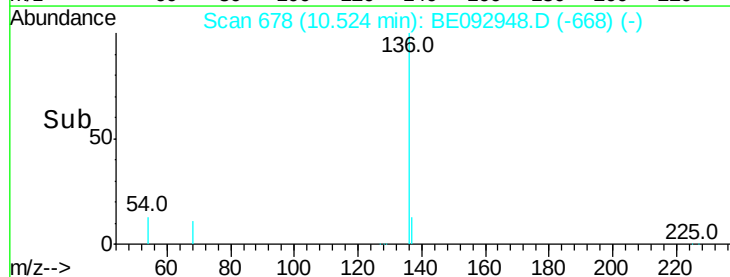
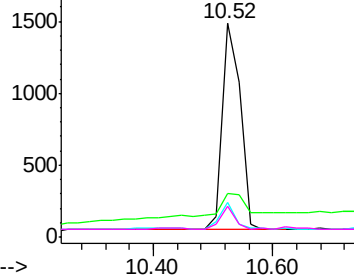


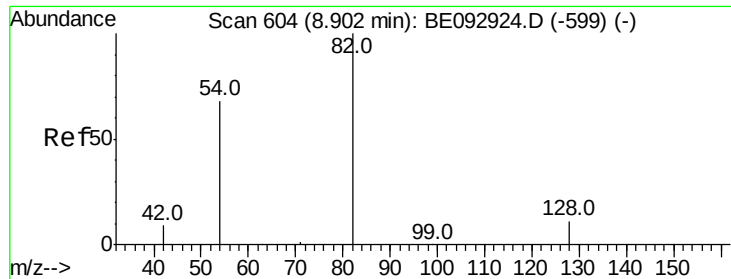
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.44 ng

RT: 8.90 min Scan# 604

Delta R.T. -0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

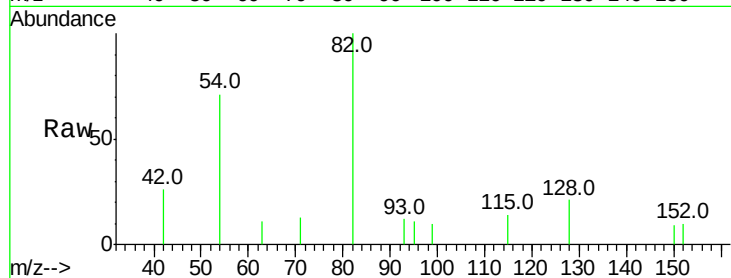
Tot Ion: 82 Resp: 894

Ion Ratio Lower Upper

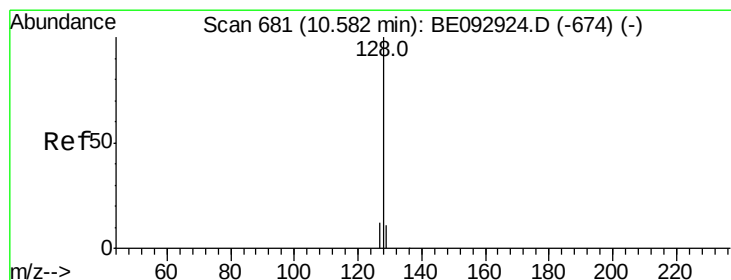
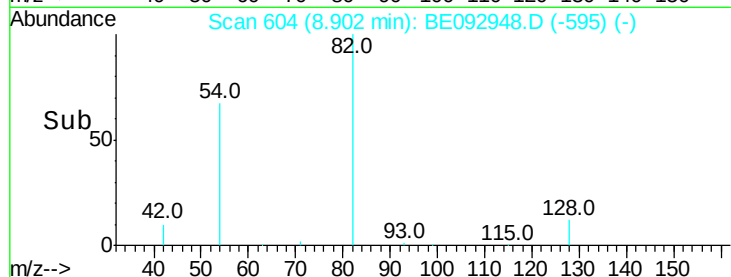
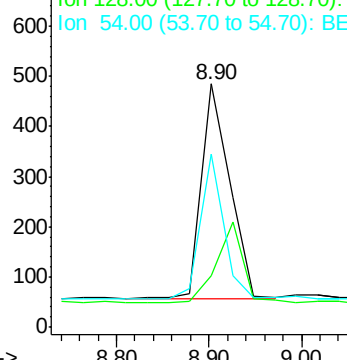
82 100

128 21.0 35.3 52.9#

54 71.3 65.1 97.7



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



#9

Naphthalene

Concen: 0.02 ng

RT: 10.58 min Scan# 681

Delta R.T. -0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

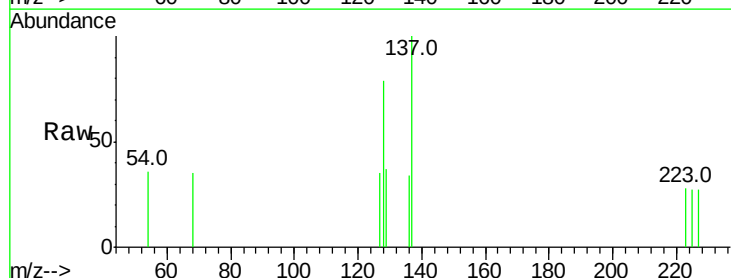
Tgt Ion: 128 Resp: 171

Ion Ratio Lower Upper

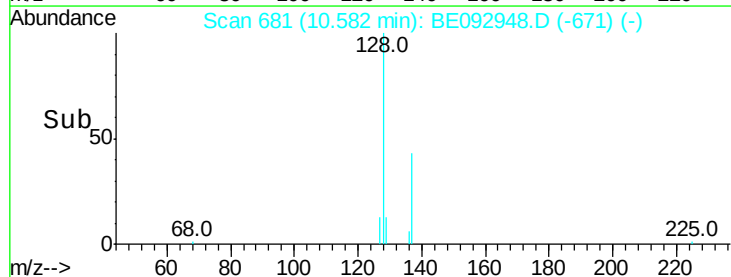
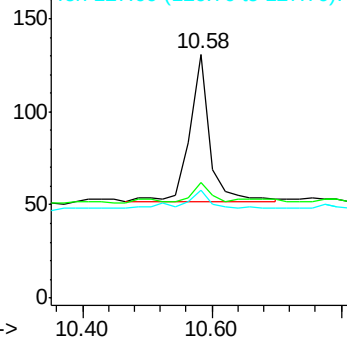
128 100

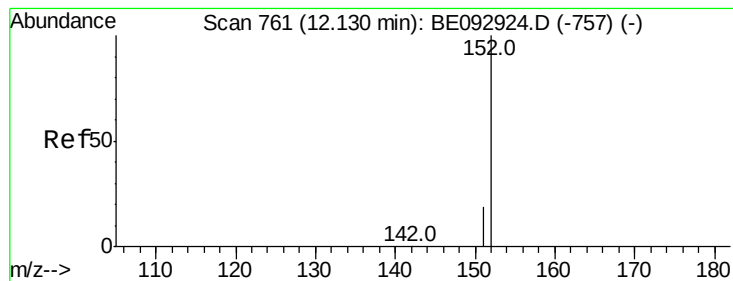
129 47.3 15.8 23.8#

127 44.3 16.0 24.0#



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

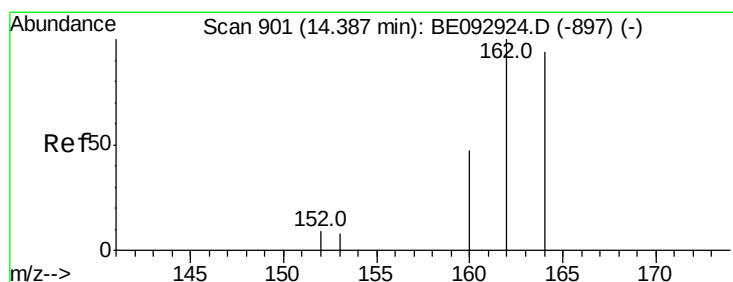
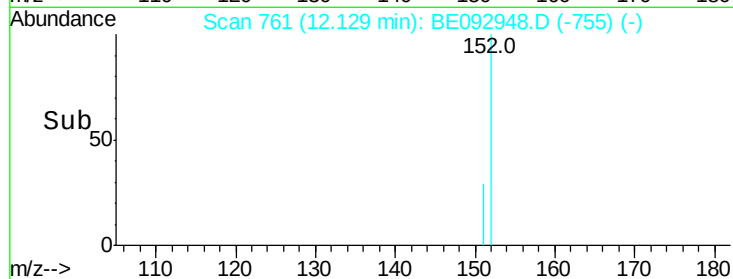
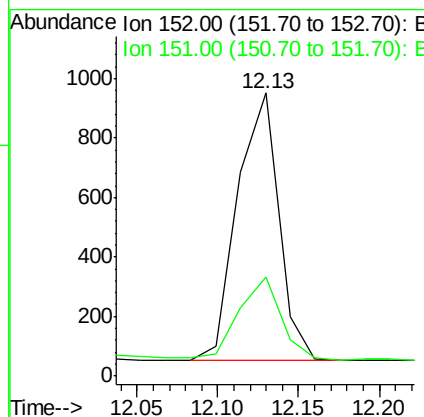
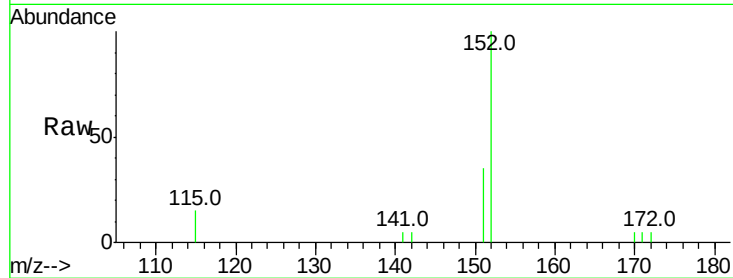




#11
2-Methylnaphthalene-d10
Concen: 0.36 ng
RT: 12.13 min Scan# 761
Delta R.T. -0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

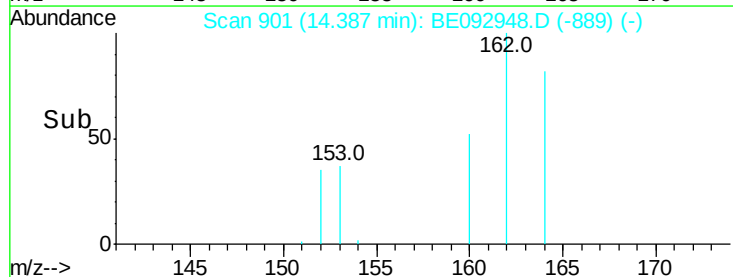
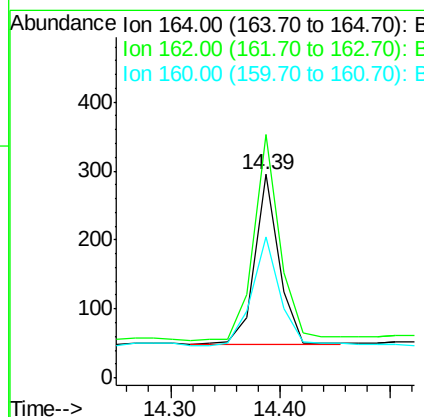
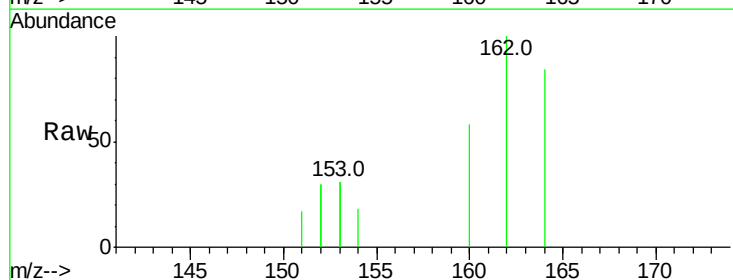
Instrument :
BNA_E
ClientSampled :

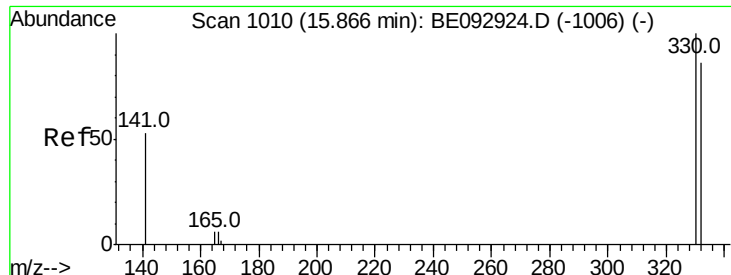
Tot Ion:152 Resp: 1593
Ion Ratio Lower Upper
152 100
151 31.7 15.7 23.5#



#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.39 min Scan# 901
Delta R.T. -0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

Tgt Ion:164 Resp: 377
Ion Ratio Lower Upper
164 100
162 119.7 86.6 130.0
160 69.2 44.5 66.7#

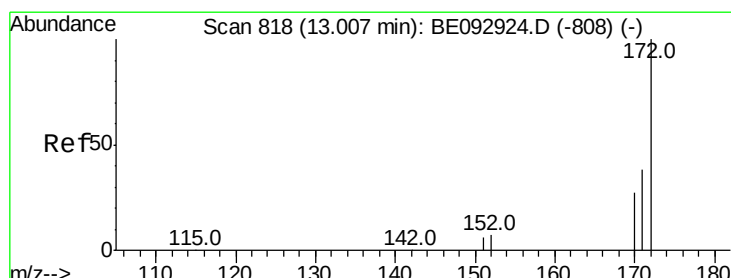
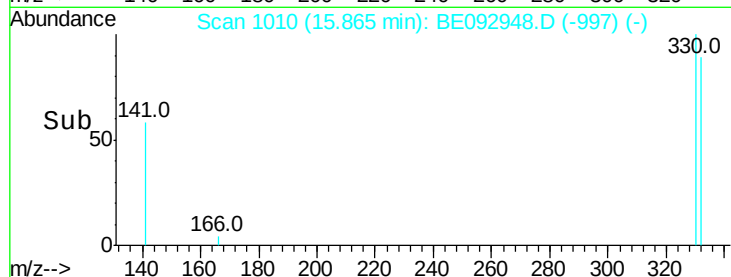
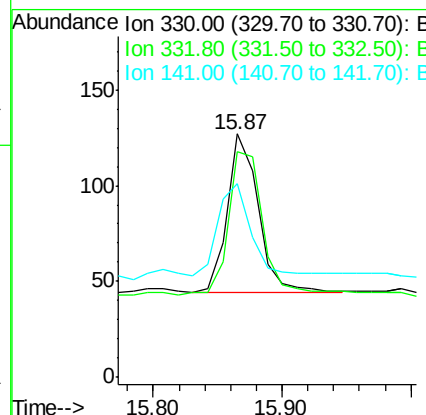
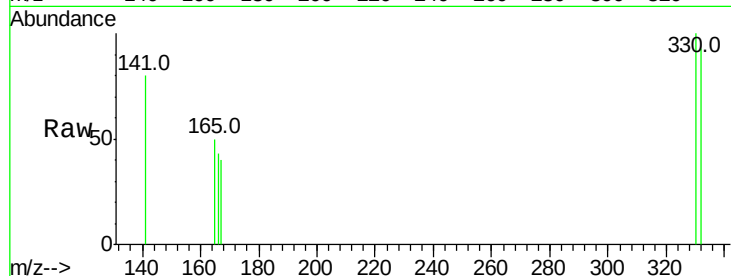




#14
 2,4,6-Tribromophenol
 Concen: 2.37 ng
 RT: 15.87 min Scan# 1010
 Delta R.T. -0.00 min
 Lab File: BE092948.D
 Acq: 6 May 2017 2:35

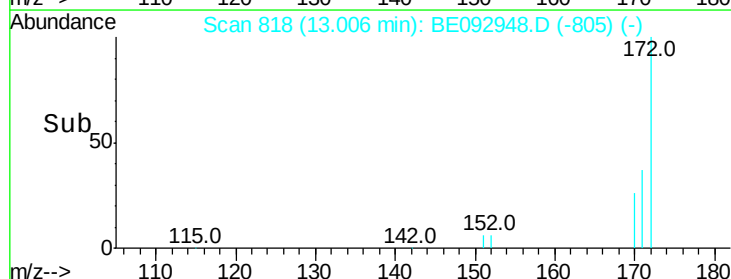
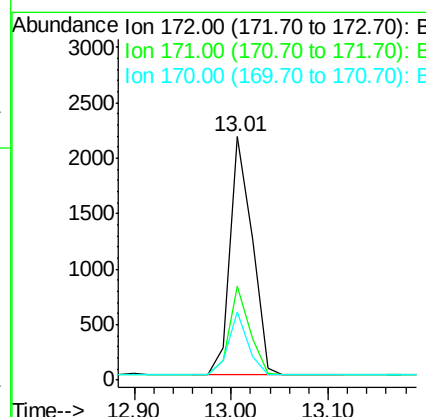
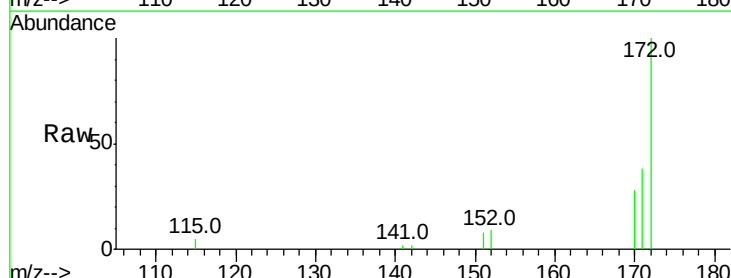
Instrument :
 BNA_E
 ClientSampled :

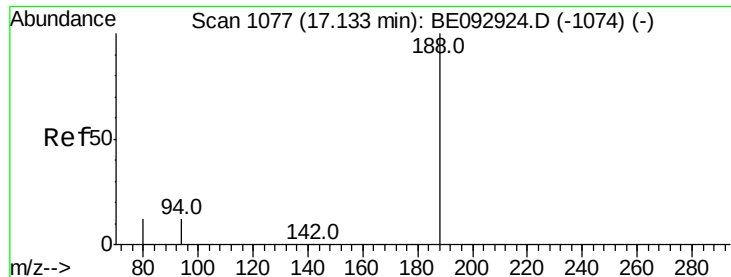
Tot Ion:330 Resp: 140
 Ion Ratio Lower Upper
 330 100
 332 100.0 69.1 103.7
 141 62.9 54.6 81.8



#15
 2-Fluorobiphenyl
 Concen: 1.97 ng
 RT: 13.01 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BE092948.D
 Acq: 6 May 2017 2:35

Tgt Ion:172 Resp: 3410
 Ion Ratio Lower Upper
 172 100
 171 38.4 35.8 53.6
 170 27.9 28.5 42.7#





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1077

Delta R.T. 0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

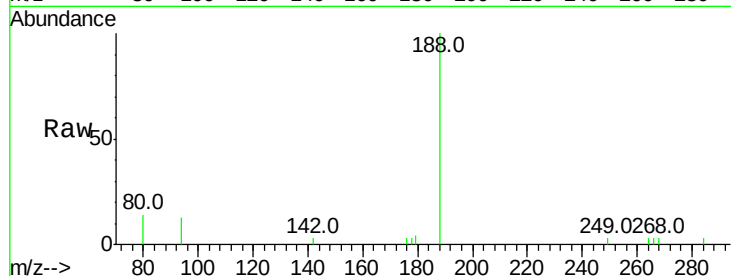
Tot Ion:188 Resp: 2538

Ion Ratio Lower Upper

188 100

94 13.0 10.2 15.4

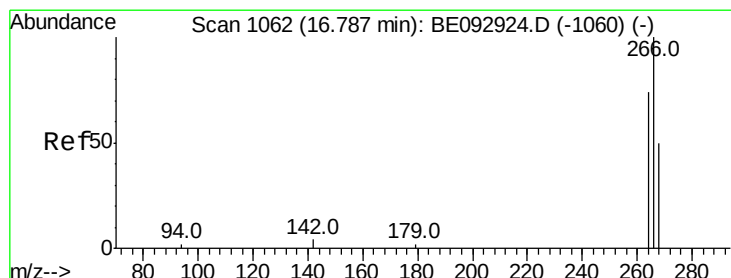
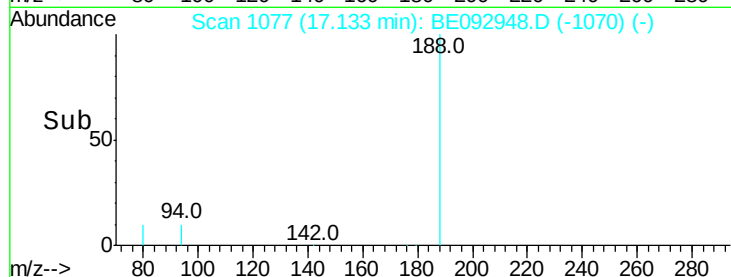
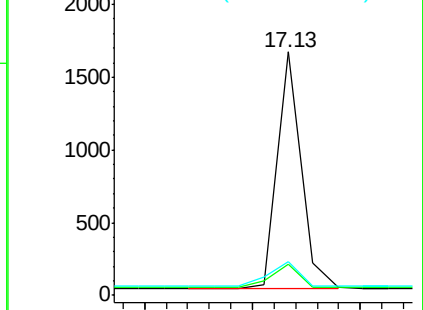
80 13.6 10.6 15.8



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: 0.19 ng

RT: 16.79 min Scan# 1062

Delta R.T. 0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

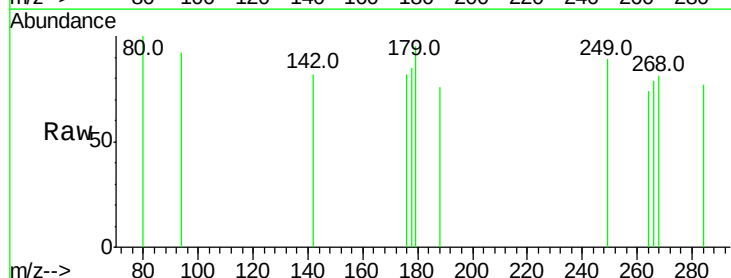
Tgt Ion:266 Resp: 11

Ion Ratio Lower Upper

266 100

264 93.9 75.4 113.2

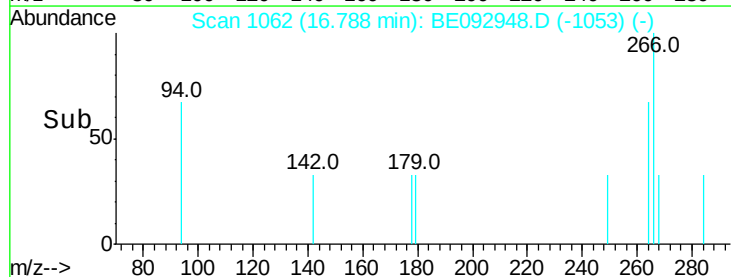
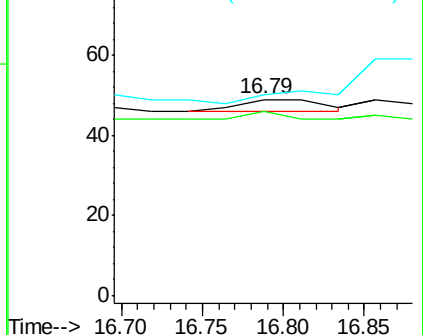
268 102.0 75.4 113.2

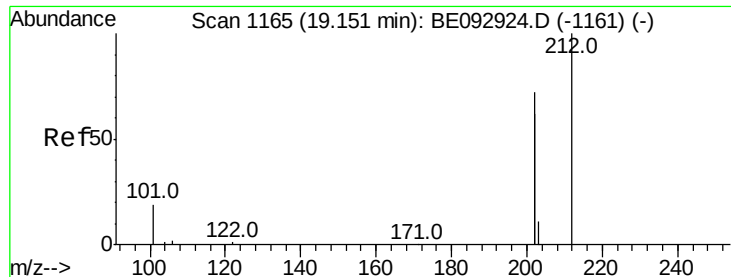


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

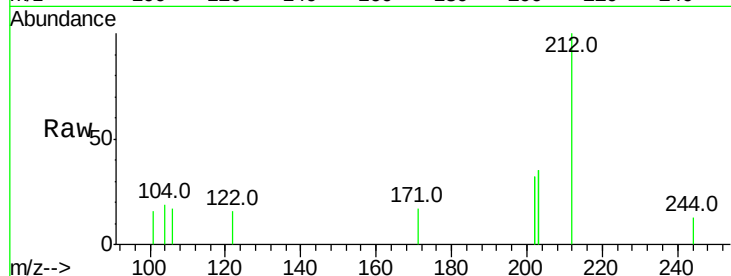




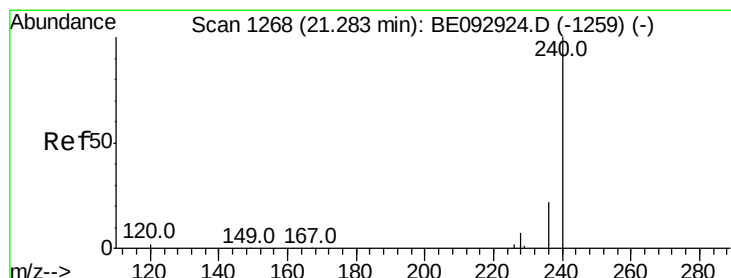
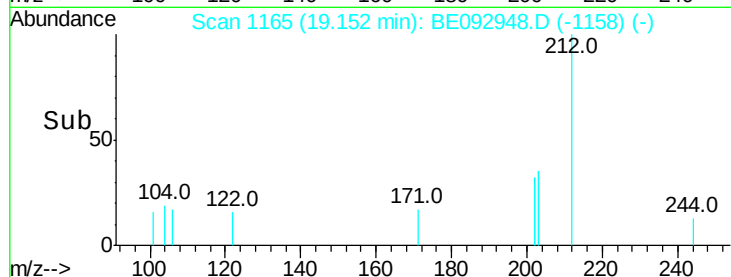
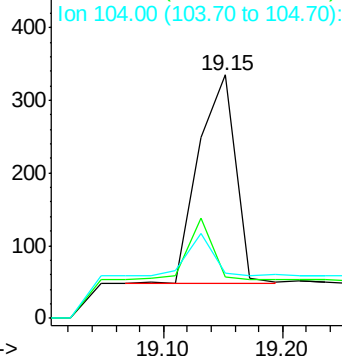
#24
Fluoranthene-d10
Concen: 0.11 ng
RT: 19.15 min Scan# 1165
Delta R.T. 0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

Instrument :
BNA_E
ClientSampleId :

Tot Ion:212 Resp: 627
Ion Ratio Lower Upper
212 100
106 0.0 0.0 0.0
104 0.0 0.0 0.0

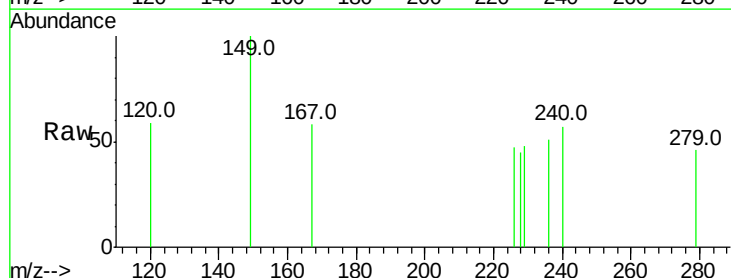


Abundance Ion 212.00 (211.70 to 212.70): E
Ion 106.00 (105.70 to 106.70): E
Ion 104.00 (103.70 to 104.70): E

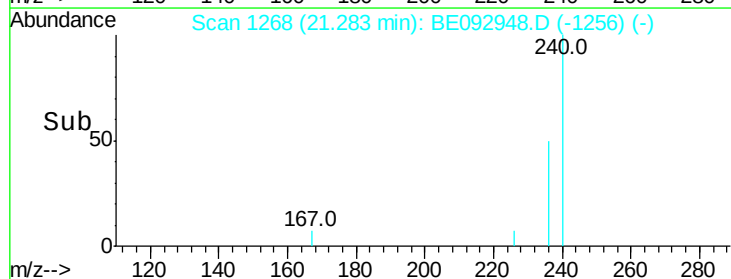
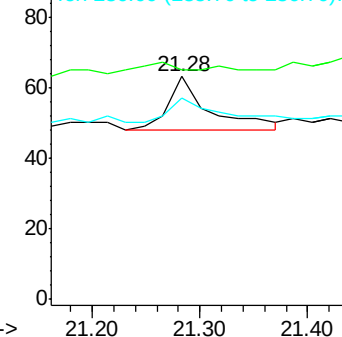


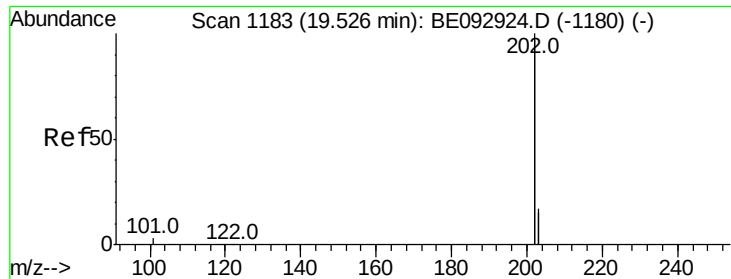
#26
Chrysene-d12
Concen: 0.40 ng
RT: 21.28 min Scan# 1268
Delta R.T. -0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

Tgt Ion:240 Resp: 39
Ion Ratio Lower Upper
240 100
120 103.2 4.6 6.8#
236 90.5 19.8 29.8#



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





#27

Pvrene

Concen: 0.14 ng

RT: 19.53 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

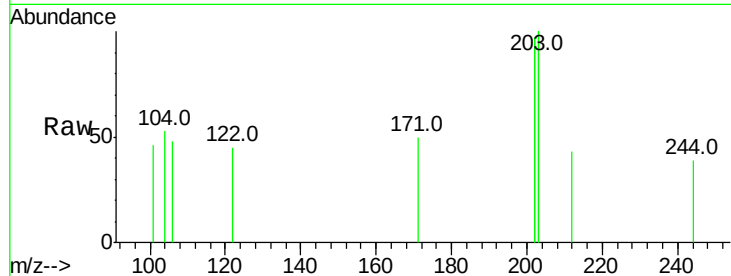
Tot Ion:202 Resp: 68

Ion Ratio Lower Upper

202 100

200 0.0 0.0 0.0

203 29.4 13.5 20.3#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

19.53

200

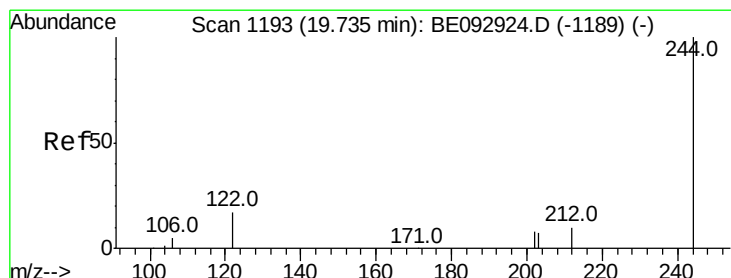
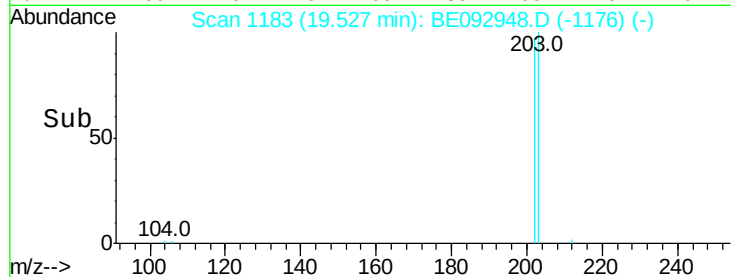
150

100

50

0

Time--> 19.40 19.50 19.60



#28

Terphenyl-d14

Concen: 32.85 ng

RT: 19.74 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

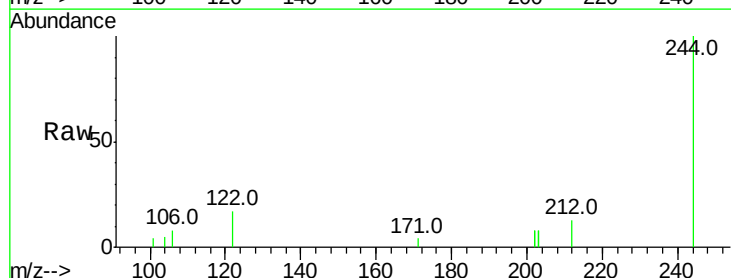
Tgt Ion:244 Resp: 2240

Ion Ratio Lower Upper

244 100

212 13.2 18.4 27.6#

122 16.7 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

19.74

2000

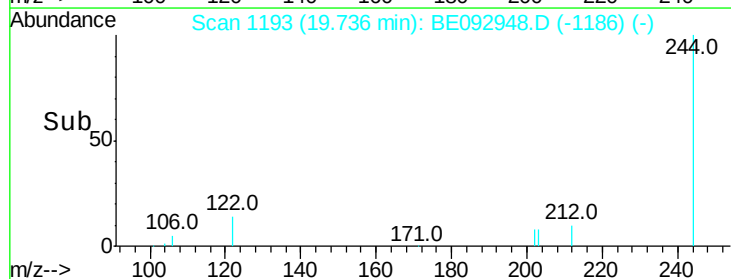
1500

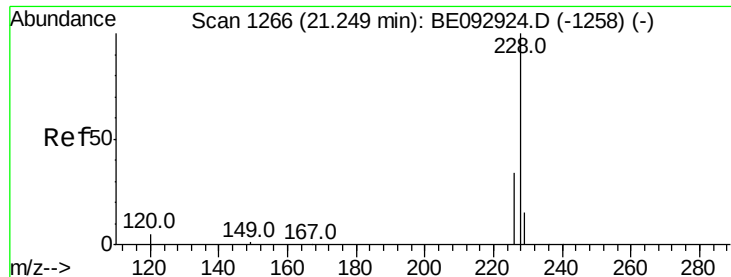
1000

500

0

Time--> 19.70 19.80





#29

Benzo(a)anthracene

Concen: 0.04 ng

RT: 21.25 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BE092948.D

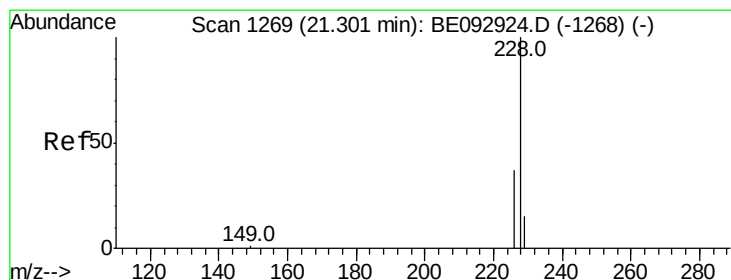
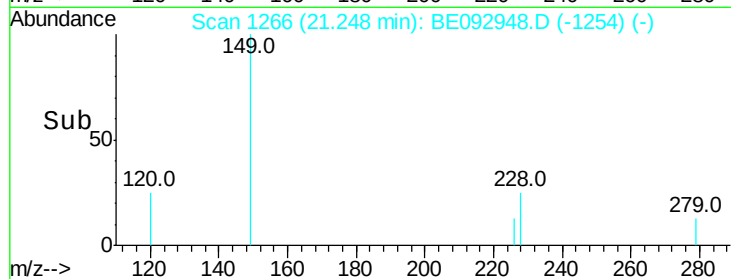
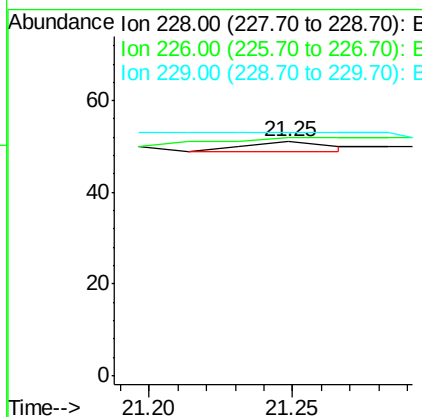
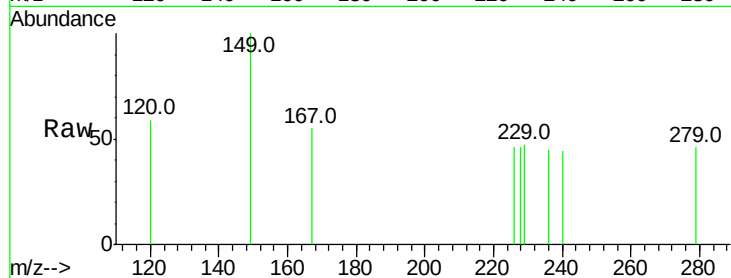
Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

Tot Ion:228	Resp:	4	
Ion Ratio	Lower	Upper	
228	100		
226	102.0	32.0	48.0#
229	103.9	21.4	32.0#



#30

Chrysene

Concen: 0.03 ng

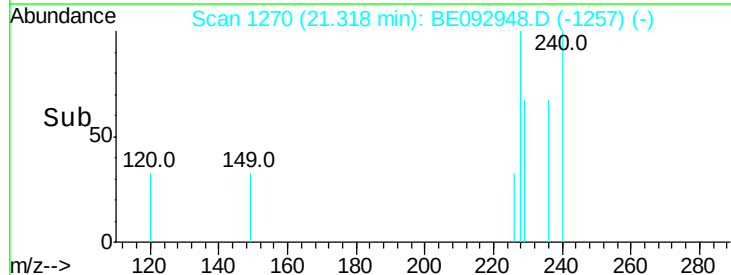
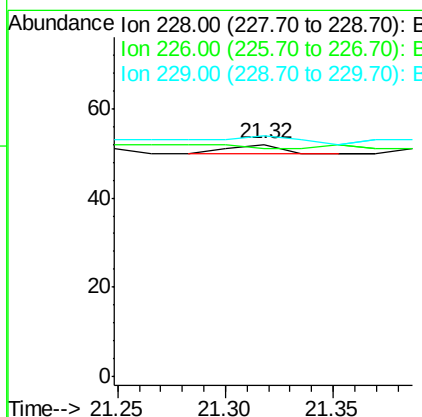
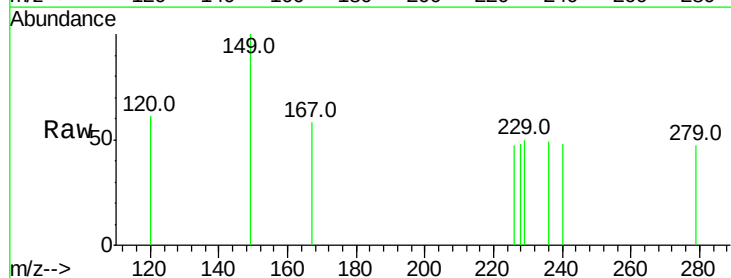
RT: 21.32 min Scan# 1270

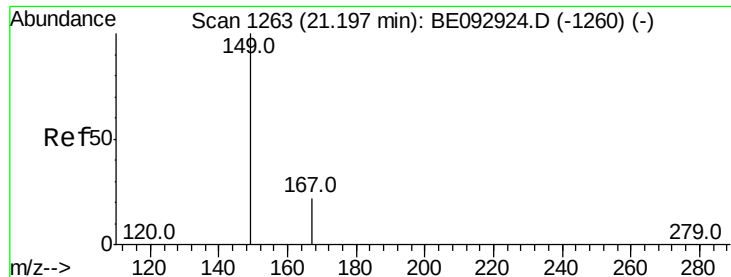
Delta R.T. 0.02 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Tgt	Ion:228	Resp:	3
Ion	Ratio	Lower	Upper
228	100		
226	98.1	34.2	51.2#
229	103.8	18.6	28.0#





#31

Bis(2-ethylhexyl)phthalate

Concen: 19.87 ng

RT: 21.20 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

Instrument :

BNA_E

ClientSampleId :

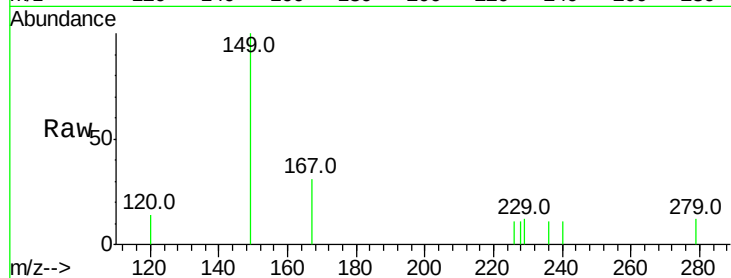
Tot Ion:149 Resp: 497

Ion Ratio Lower Upper

149 100

167 23.3 20.9 31.3

279 0.0 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

21.20

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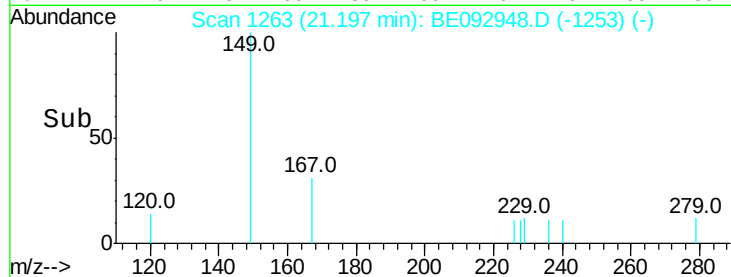
21.20

21.20

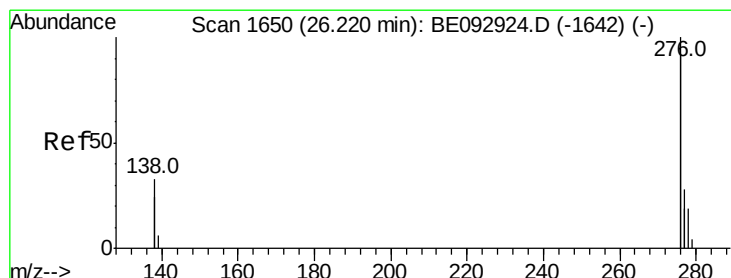
21.20

21.20

21.20



Time--> 21.10 21.20 21.30



#32

Indeno(1,2,3-cd)pyrene

Concen: 0.11 ng

RT: 26.22 min Scan# 1650

Delta R.T. -0.00 min

Lab File: BE092948.D

Acq: 6 May 2017 2:35

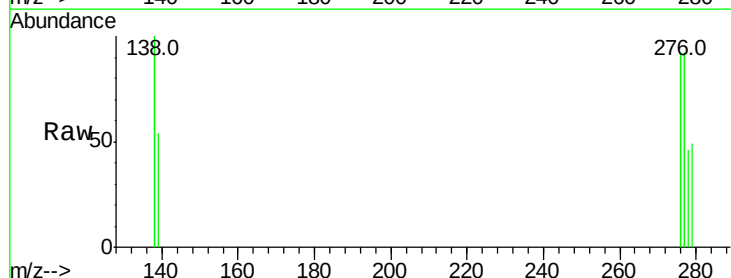
Tgt Ion:276 Resp: 45

Ion Ratio Lower Upper

276 100

138 0.0 25.8 38.6#

277 26.7 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

26.22

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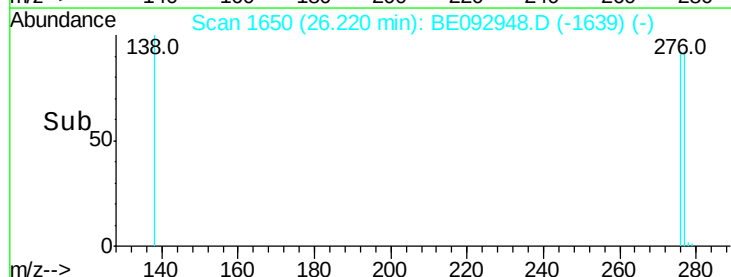
26.22

26.22

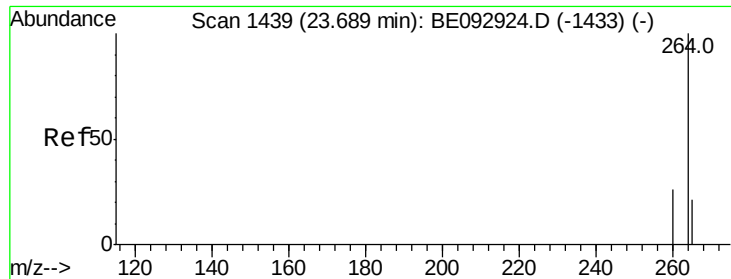
26.22

26.22

26.22



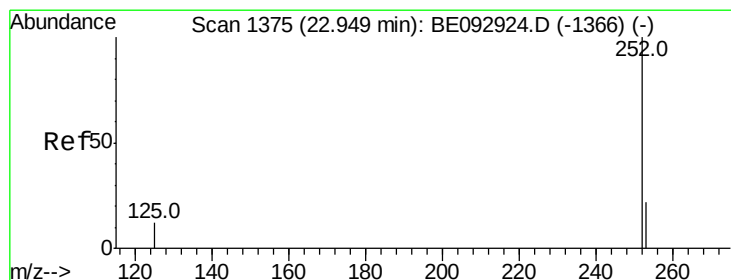
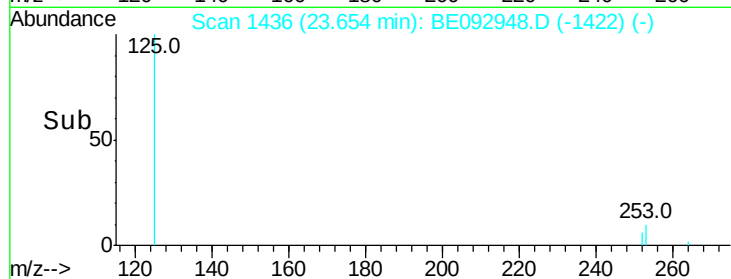
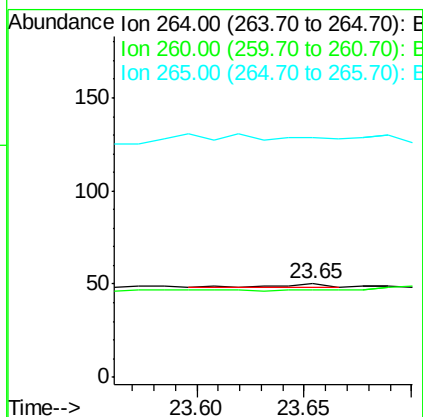
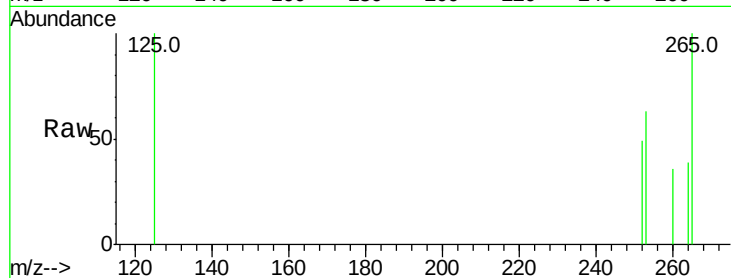
Time--> 26.00 26.20



#33
 Pervlene-d12
 Concen: 0.40 ng
 RT: 23.65 min Scan# 1436
 Delta R.T. -0.03 min
 Lab File: BE092948.D
 Acq: 6 May 2017 2:35

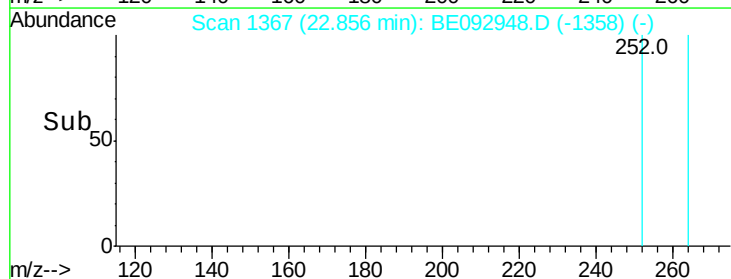
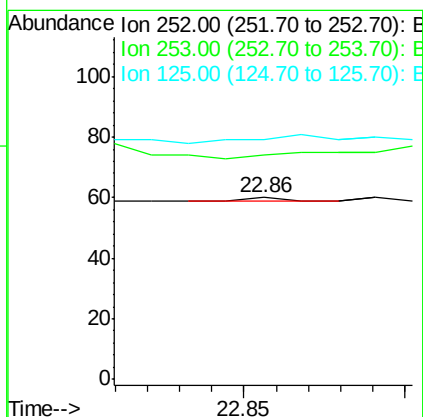
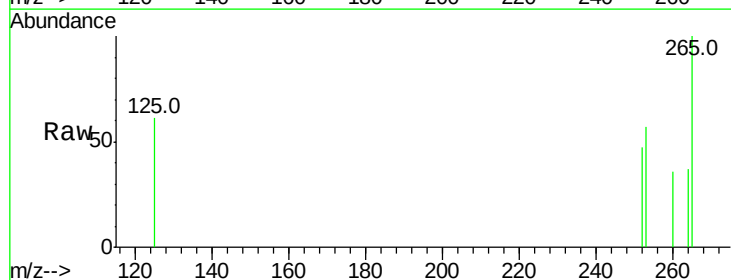
Instrument :
 BNA_E
 ClientSampleId :

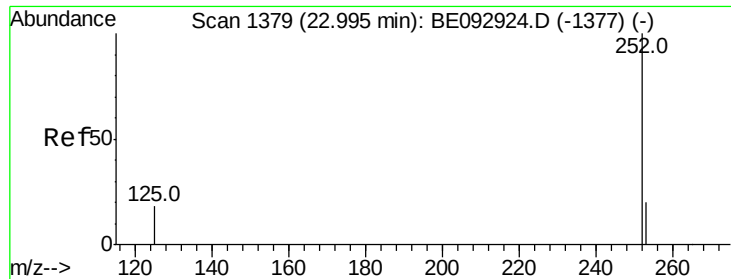
Tot Ion:264 Resp: 3
 Ion Ratio Lower Upper
 264 100
 260 94.0 23.5 35.3#
 265 258.0 27.2 40.8#



#34
 Benzo(b)fluoranthene
 Concen: 0.10 ng
 RT: 22.86 min Scan# 1367
 Delta R.T. -0.09 min
 Lab File: BE092948.D
 Acq: 6 May 2017 2:35

Tgt Ion:252 Resp: 1
 Ion Ratio Lower Upper
 252 100
 253 123.3 24.7 37.1#
 125 131.7 20.3 30.5#

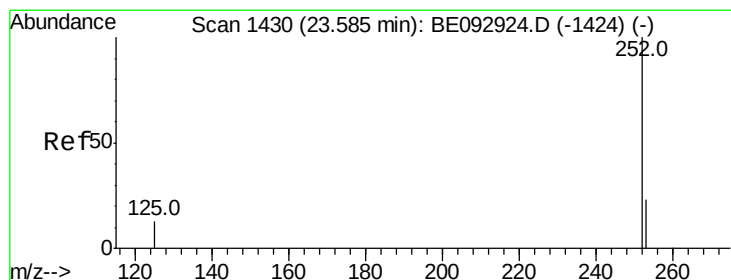
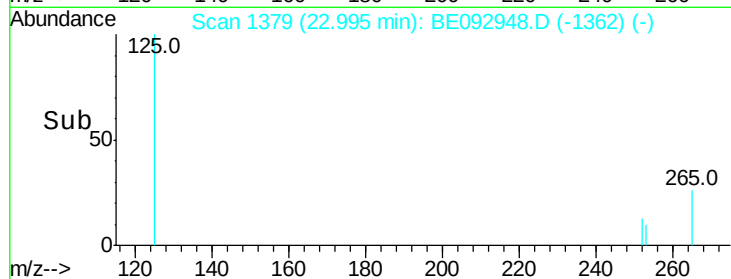
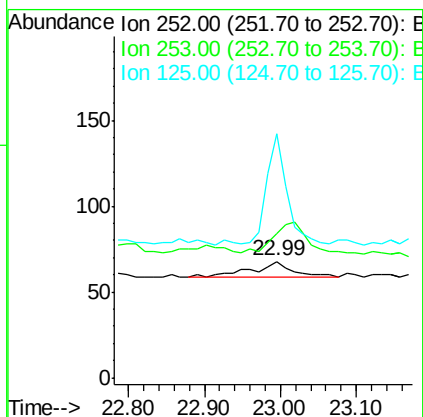
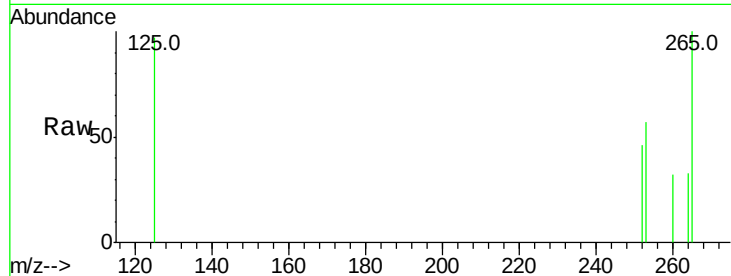




#35
Benzo(k)fluoranthene
Concen: 3.16 ng
RT: 22.99 min Scan# 1379
Delta R.T. -0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

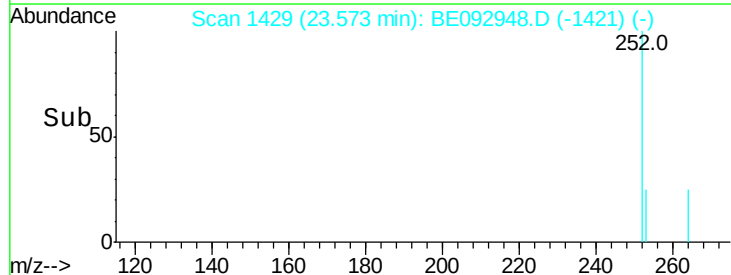
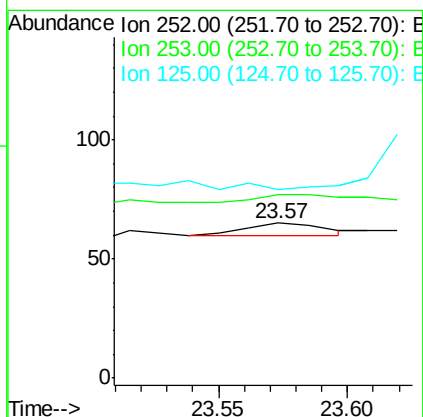
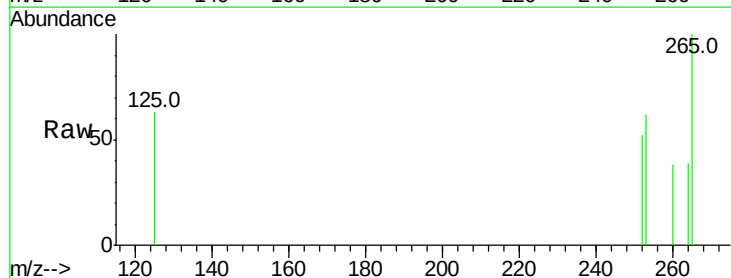
Instrument :
BNA_E
ClientSampleId :

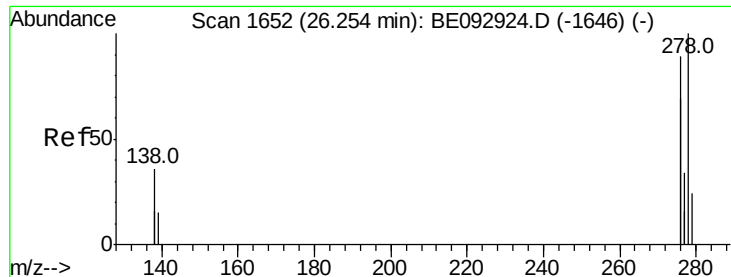
Tot Ion:252 Resp: 31
Ion Ratio Lower Upper
252 100
253 123.5 25.8 38.8#
125 208.8 22.9 34.3#



#36
Benzo(a)pyrene
Concen: 1.25 ng
RT: 23.57 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

Tgt Ion:252 Resp: 10
Ion Ratio Lower Upper
252 100
253 118.5 31.3 46.9#
125 121.5 26.4 39.6#



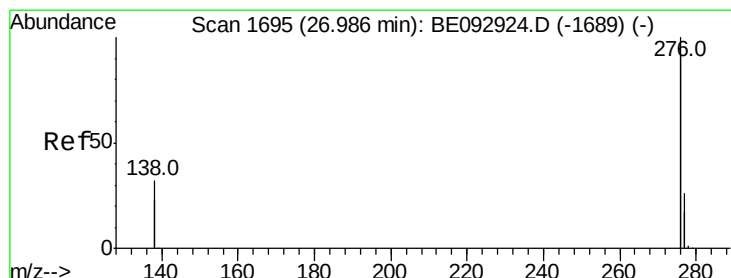
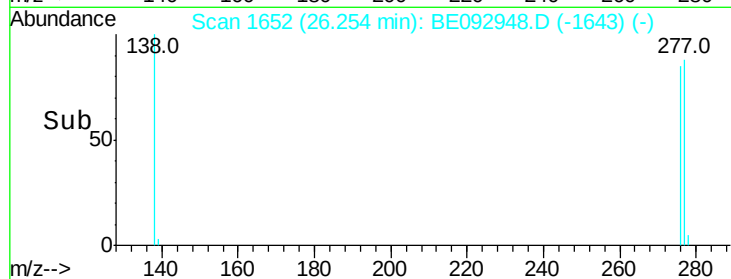
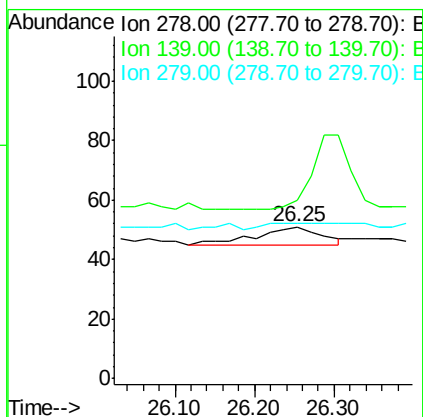
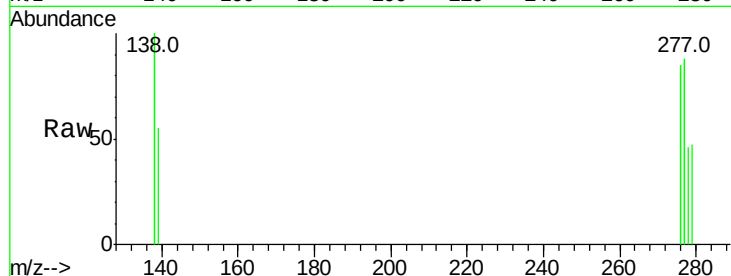


#37
Dibenzo(a,h)anthracene
Concen: 3.65 ng
RT: 26.25 min Scan# 1652
Delta R.T. -0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

Instrument :
BNA_E
ClientSampleId :

Tot Ion:278 Resp: 33

Ion	Ratio	Lower	Upper
278	100		
139	117.6	27.4	41.2#
279	102.0	33.3	49.9#



#38
Benzo(g,h,i)perylene
Concen: 0.91 ng
RT: 26.99 min Scan# 1695
Delta R.T. -0.00 min
Lab File: BE092948.D
Acq: 6 May 2017 2:35

Tgt Ion:276 Resp: 35

Ion	Ratio	Lower	Upper
276	100		
277	101.1	29.9	44.9#
138	112.6	34.6	51.8#

