

Data Path : Z:\HPCHEM1\BNA E\DATA\BE012417\
 Data File : BE092676.D
 Acq On : 24 Jan 2017 21:39
 Operator : UM/SJ
 Sample : I1378-05 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jan 25 11:08:52 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE011617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 17 10:14:01 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9416	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	44672	5.00	ng	0.00
12) Acenaphthene-d10	14.78	164	31044	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	68232	5.00	ng	0.00
24) Chrysene-d12	21.72	240	72363	5.00	ng	0.00
31) Perylene-d12	24.07	264	73654	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.66	112	1675	0.80	ng	0.01
5) Phenol-d6	7.33	99	2016	0.78	ng	0.00
8) Nitrobenzene-d5	9.41	82	761	0.26	ng	0.07
13) 2,4,6-Tribromophenol	16.34	330	544	0.71	ng	0.05
14) 2-Fluorobiphenyl	13.43	172	3270	0.43	ng	0.01
26) Terphenyl-d14	20.16	244	4293	0.42	ng	0.00

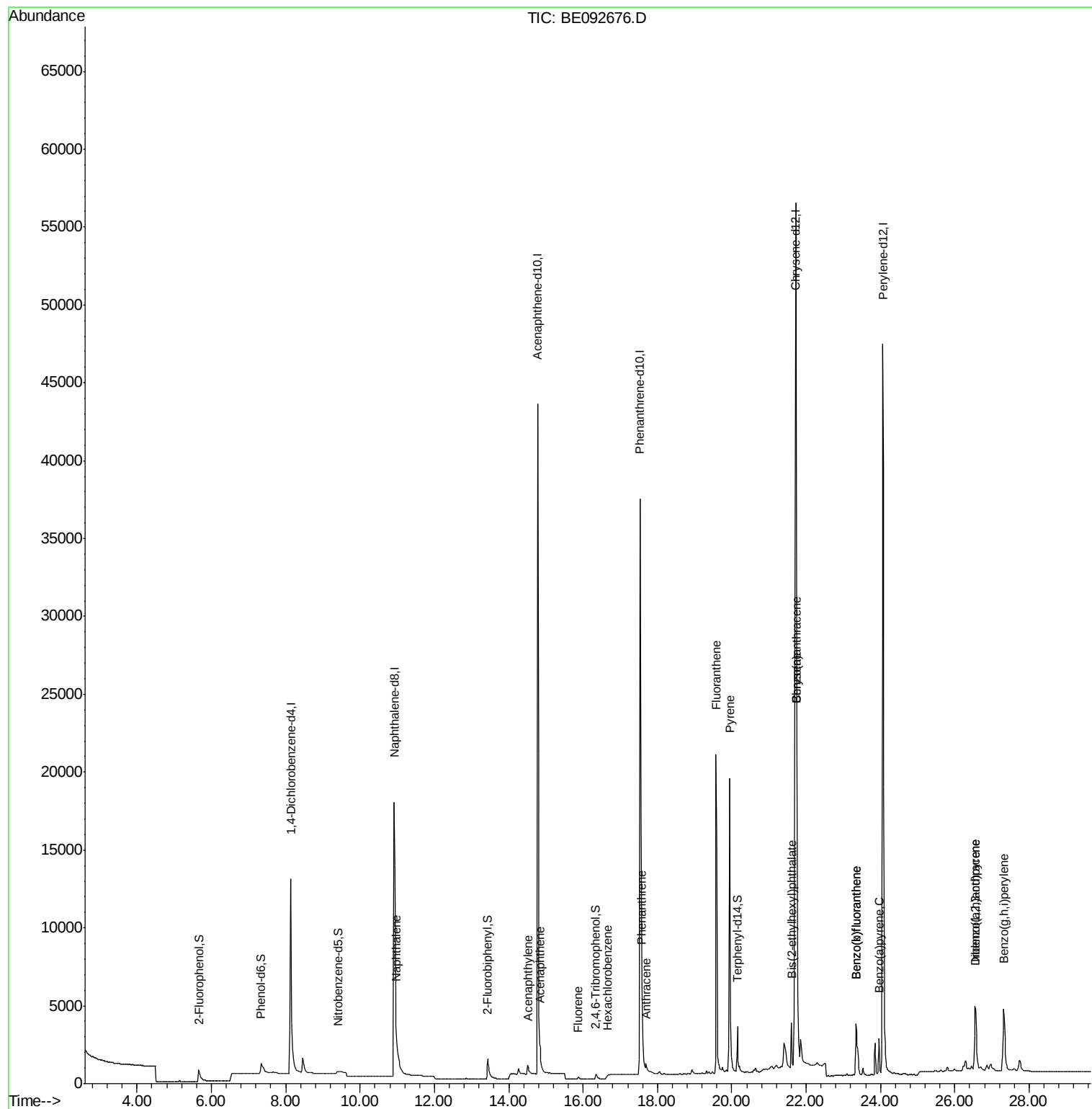
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.97	128	296	0.03	ng	# 29
15) Acenaphthylene	14.51	152	1570	0.04	ng	99
16) Acenaphthene	14.85	154	217	0.03	ng	88
17) Fluorene	15.87	166	175	0.02	ng	96
19) Hexachlorobenzene	16.66	284	529	0.15	ng	# 41
21) Phenanthrene	17.58	178	4307	0.29	ng	95
22) Anthracene	17.69	178	1042	0.07	ng	100
23) Fluoranthene	19.58	202	34795	0.52	ng	100
25) Pyrene	19.95	202	32398	0.45	ng	# 92
27) Benzo(a)anthracene	21.75	228	40372	0.57	ng	# 95
28) Chrysene	21.75	228	40372	0.50	ng	# 80
29) Bis(2-ethylhexyl)phthalate	21.61	149	3357	0.44	ng	# 73
30) Indeno(1,2,3-cd)pyrene	26.55	276	10336	0.12	ng	95
32) Benzo(b)fluoranthene	23.35	252	8398	0.47	ng	96
33) Benzo(k)fluoranthene	23.35	252	8398	0.47	ng	97
34) Benzo(a)pyrene	23.96	252	4042	0.24	ng	94
35) Dibenzo(a,h)anthracene	26.56	278	638	0.04	ng	# 53
36) Benzo(g,h,i)perylene	27.31	276	10802	0.16	ng	92

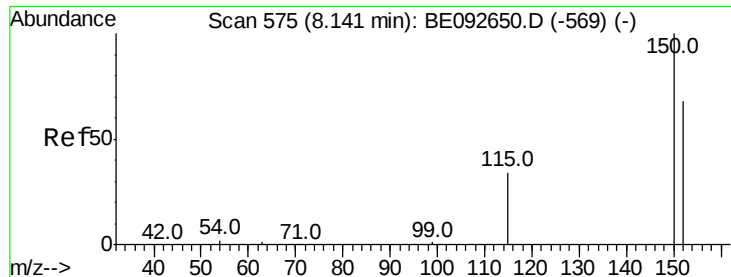
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

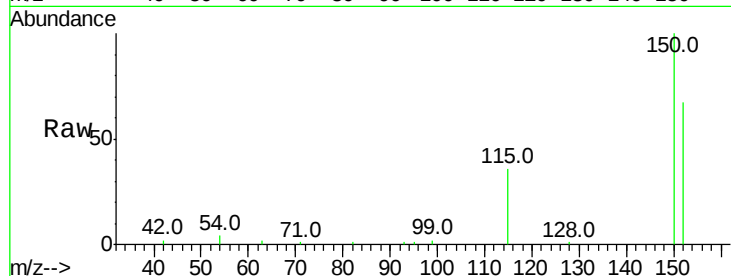
Tot Ion:152 Resp: 9416

Ion Ratio Lower Upper

152 100

150 150.0 106.0 159.0

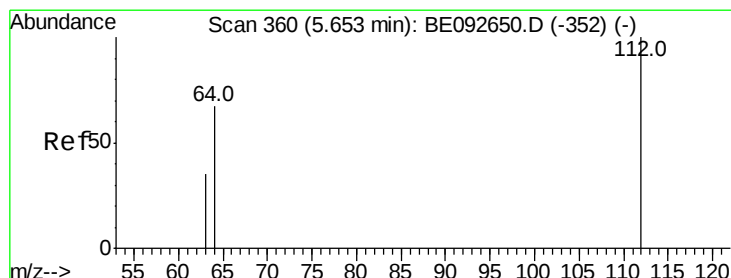
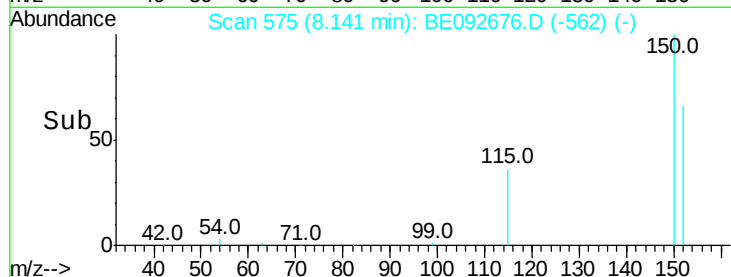
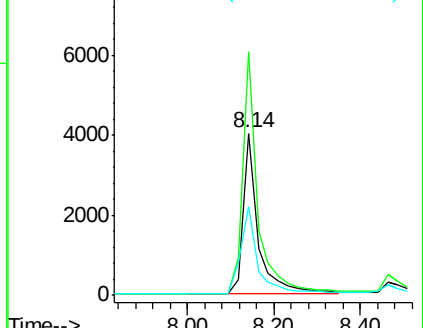
115 54.6 31.2 46.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.80 ng

RT: 5.66 min Scan# 362

Delta R.T. 0.01 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

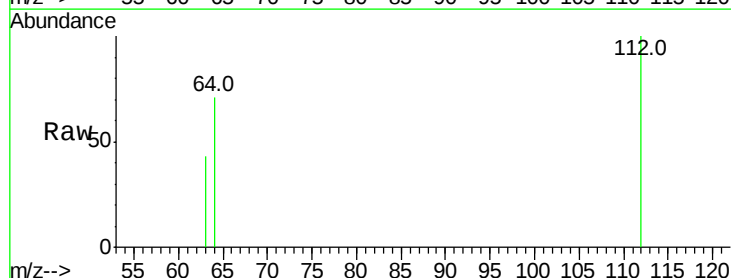
Tgt Ion:112 Resp: 1675

Ion Ratio Lower Upper

112 100

64 67.2 53.5 80.3

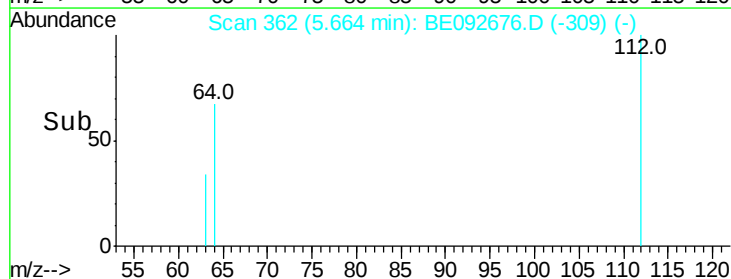
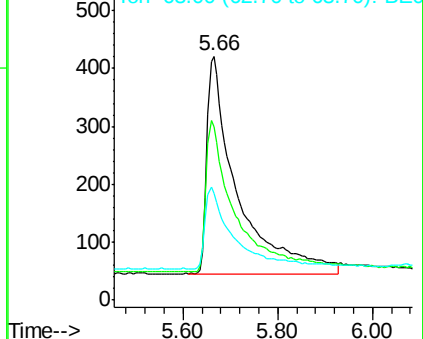
63 34.5 27.9 41.9

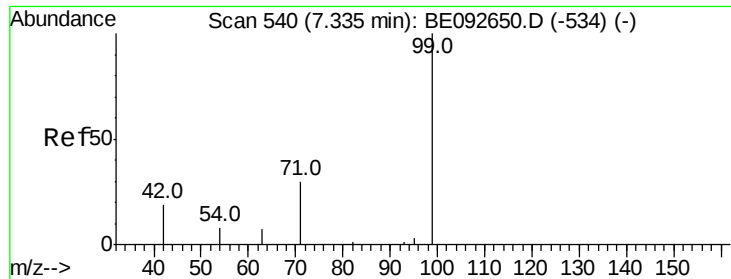


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.78 ng

RT: 7.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

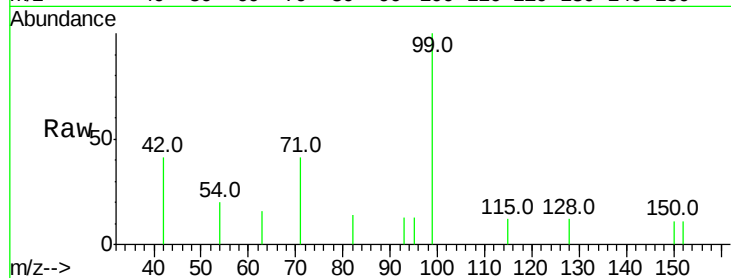
Instrument :

BNA_E

ClientSampleId :

Tot Ion: 99 Resp: 2016

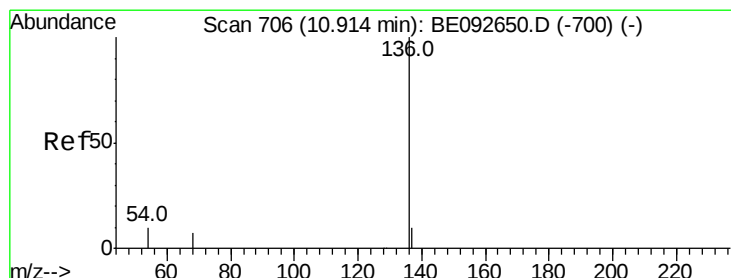
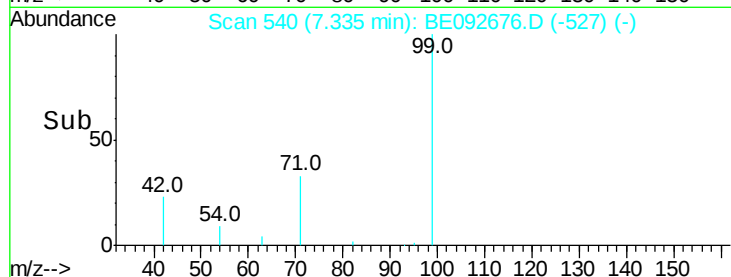
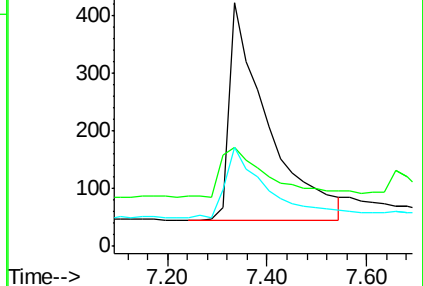
Ion	Ratio	Lower	Upper
99	100		
42	28.2	16.0	24.0#
71	34.6	30.6	45.8



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



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Tgt Ion: 136 Resp: 44672

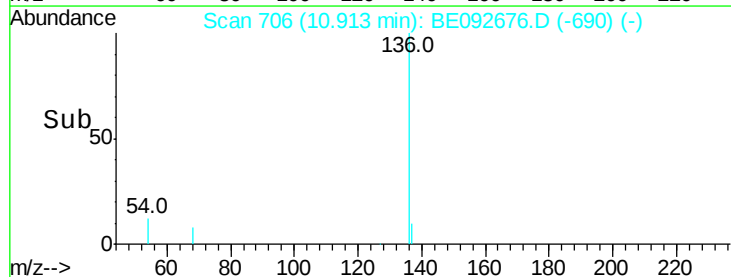
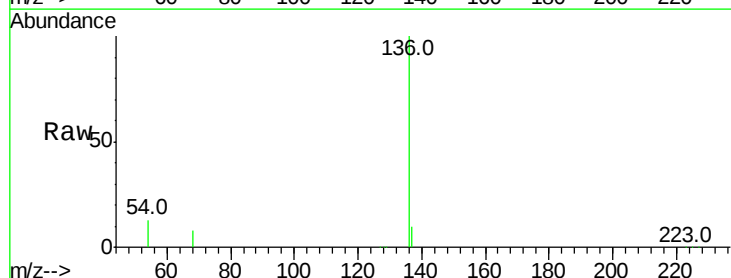
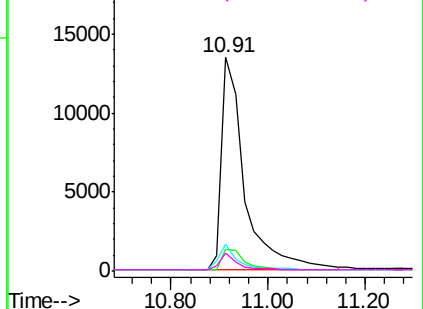
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.2	12.4
54	12.8	9.6	14.4
68	8.3	6.7	10.1

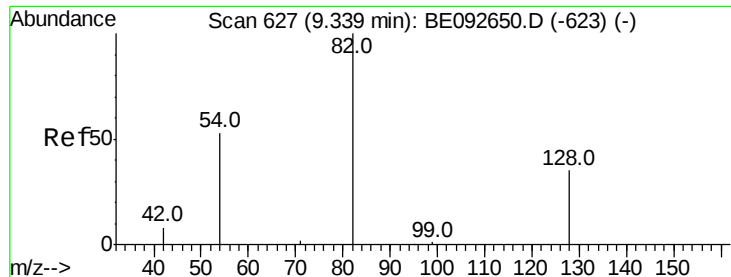
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.26 ng

RT: 9.41 min Scan# 630

Delta R.T. 0.07 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampled :

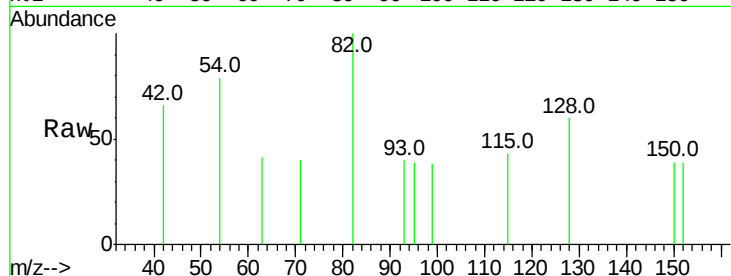
Tot Ion: 82 Resp: 761

Ion Ratio Lower Upper

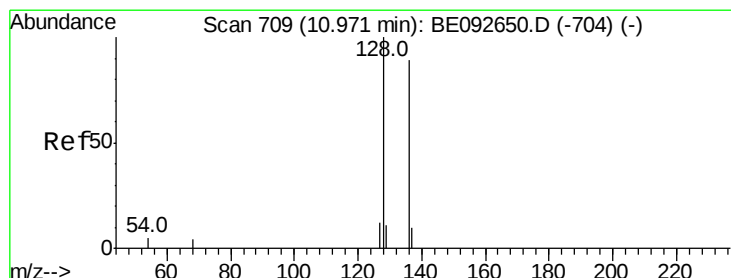
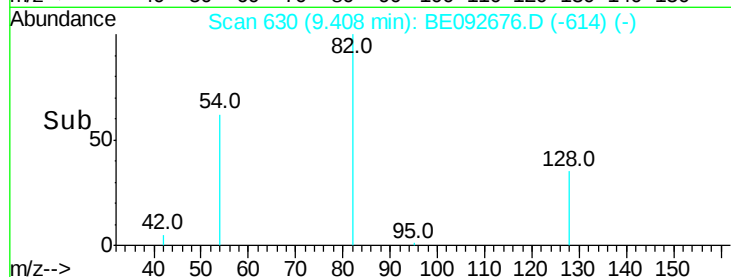
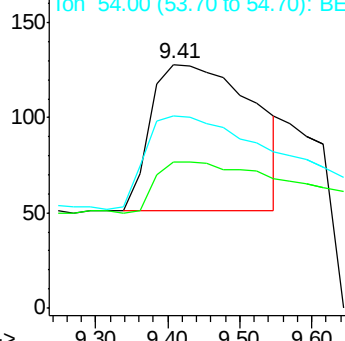
82 100

128 60.2 39.0 58.4#

54 78.9 44.8 67.2#



Abundance Ion 82.00 (81.70 to 82.70): BE092650.D (-623) (-)



#9

Naphthalene

Concen: 0.03 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

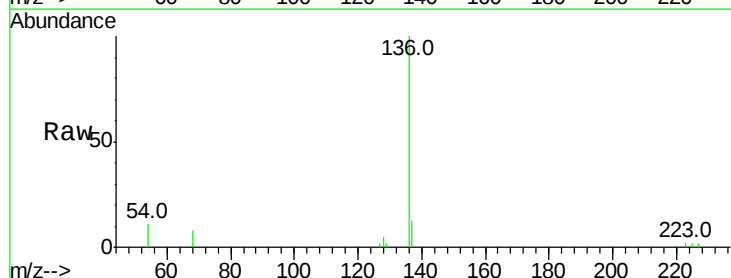
Tgt Ion: 128 Resp: 296

Ion Ratio Lower Upper

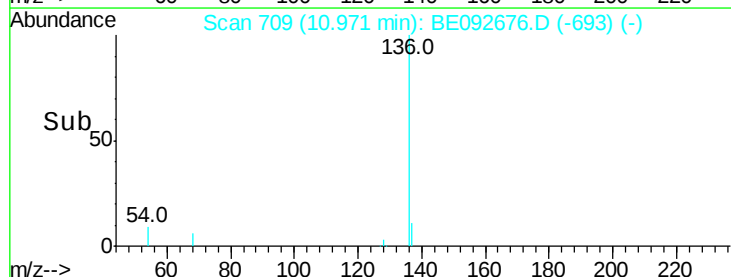
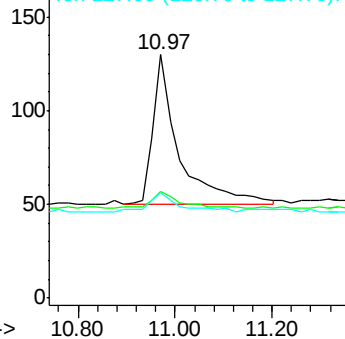
128 100

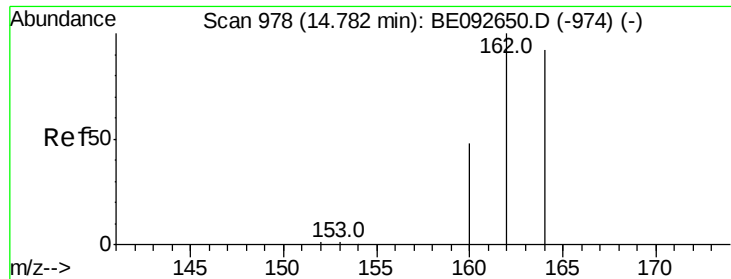
129 43.8 11.2 16.8#

127 43.1 11.6 17.4#



Abundance Ion 128.00 (127.70 to 128.70): BE092650.D (-704) (-)

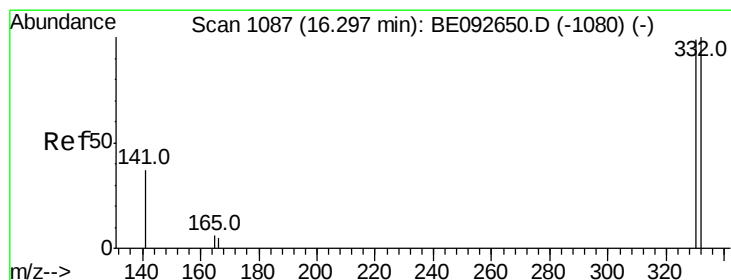
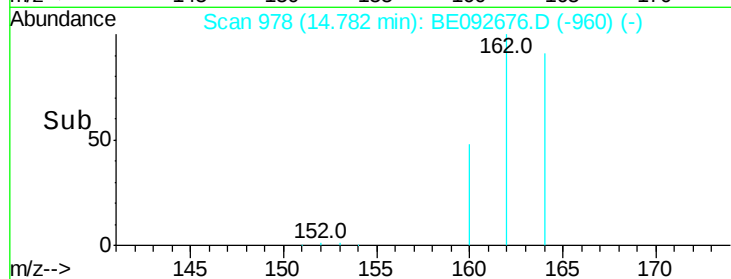
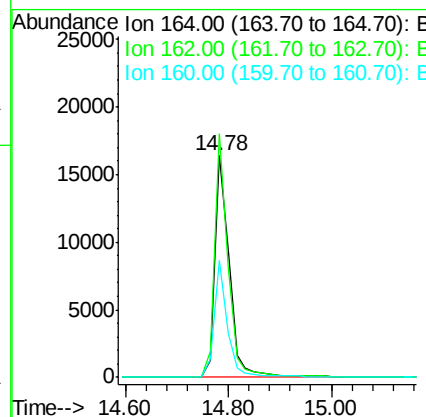
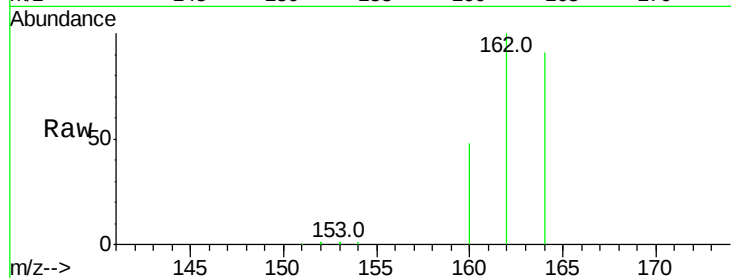




#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.78 min Scan# 978
Delta R.T. 0.00 min
Lab File: BE092676.D
Acq: 24 Jan 2017 21:39

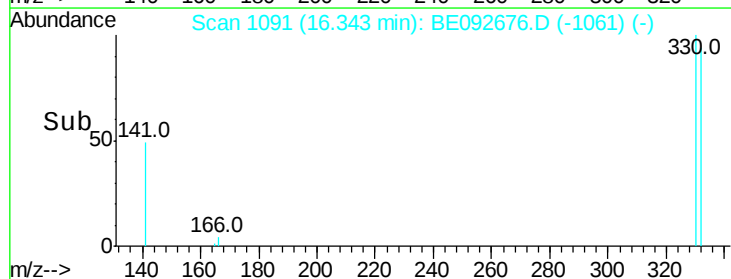
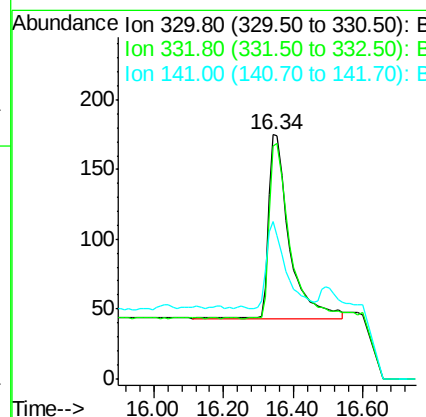
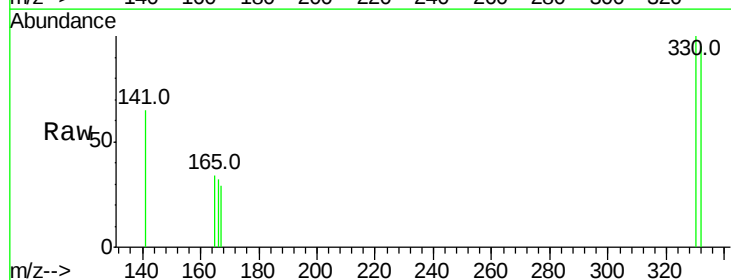
Instrument :
BNA_E
ClientSampled :

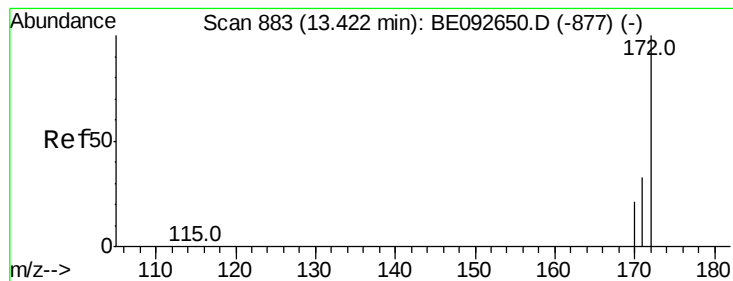
Tot Ion:164 Resp: 31044
Ion Ratio Lower Upper
164 100
162 109.8 71.4 107.0#
160 52.8 27.4 41.2#



#13
2,4,6-Tribromophenol
Concen: 0.71 ng
RT: 16.34 min Scan# 1091
Delta R.T. 0.05 min
Lab File: BE092676.D
Acq: 24 Jan 2017 21:39

Tgt Ion:330 Resp: 544
Ion Ratio Lower Upper
330 100
332 94.7 75.4 113.0
141 44.1 31.0 46.6

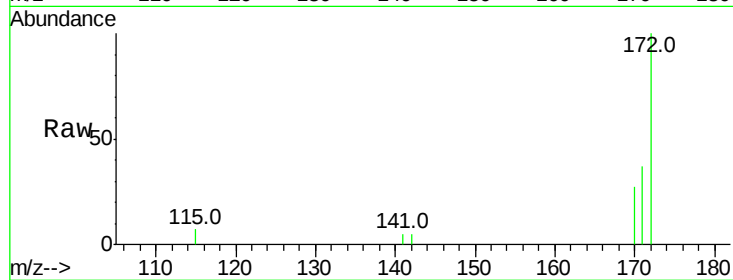




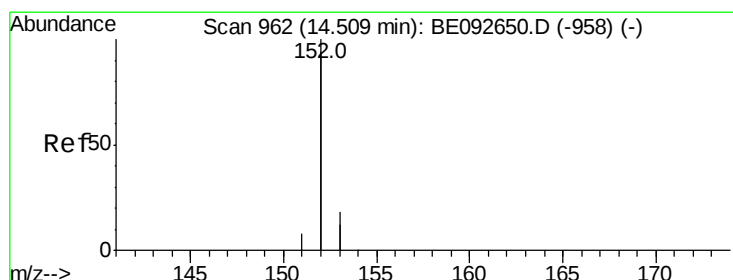
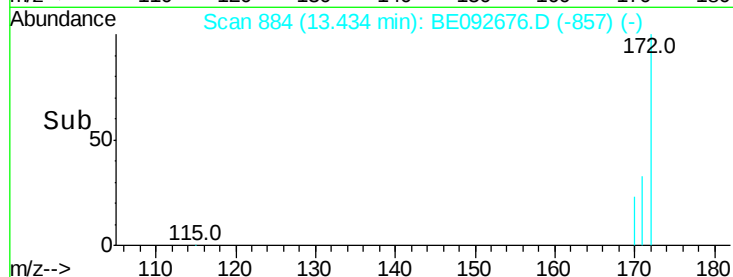
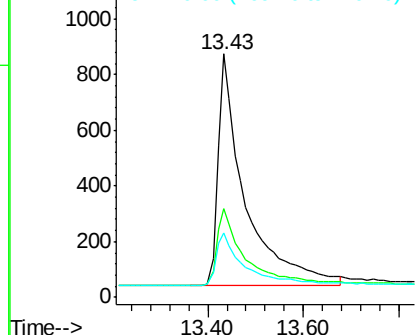
#14
2-Fluorobiphenyl
Concen: 0.43 ng
RT: 13.43 min Scan# 884
Delta R.T. 0.01 min
Lab File: BE092676.D
Acq: 24 Jan 2017 21:39

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 3270
Ion Ratio Lower Upper
172 100
171 36.7 30.1 45.1
170 26.5 21.8 32.6

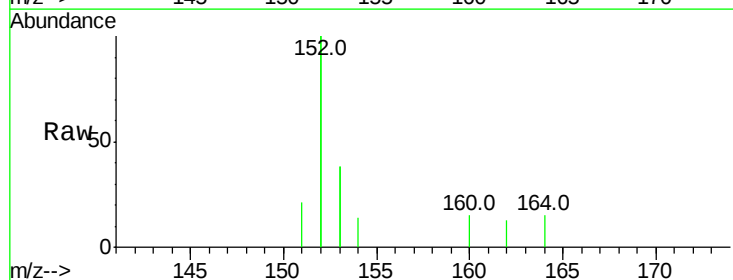


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

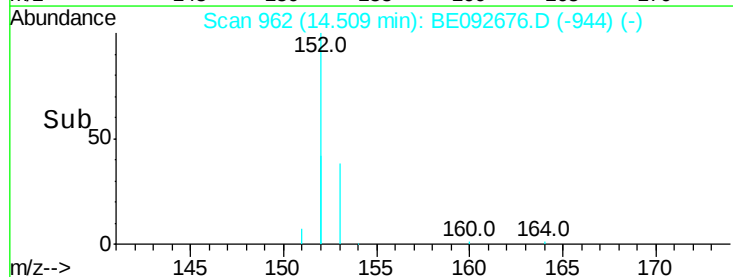
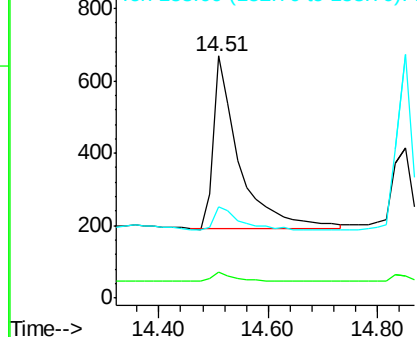


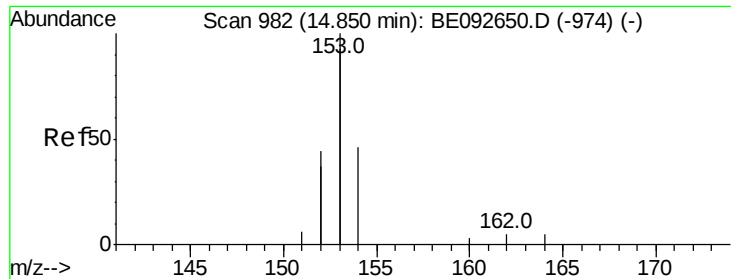
#15
Acenaphthylene
Concen: 0.04 ng
RT: 14.51 min Scan# 962
Delta R.T. 0.00 min
Lab File: BE092676.D
Acq: 24 Jan 2017 21:39

Tgt Ion:152 Resp: 1570
Ion Ratio Lower Upper
152 100
151 5.4 3.9 5.9
153 13.2 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

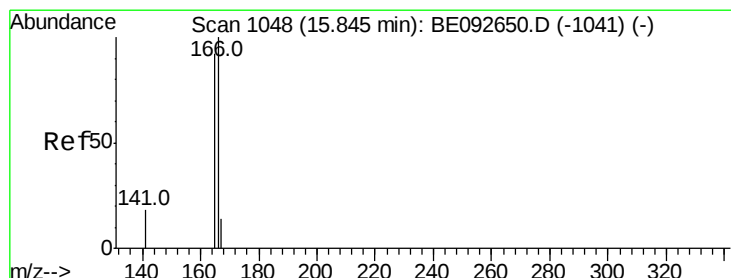
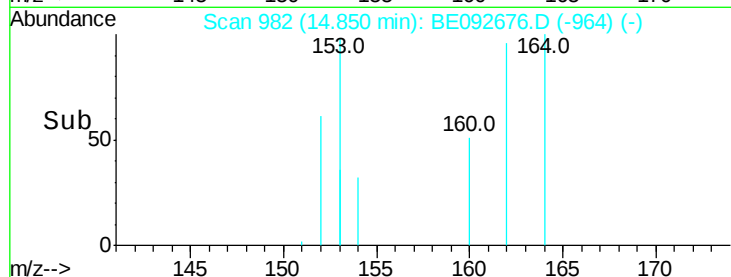
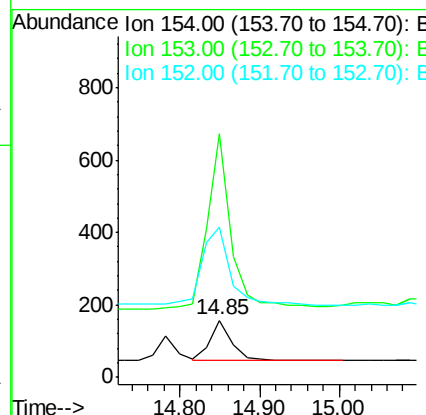
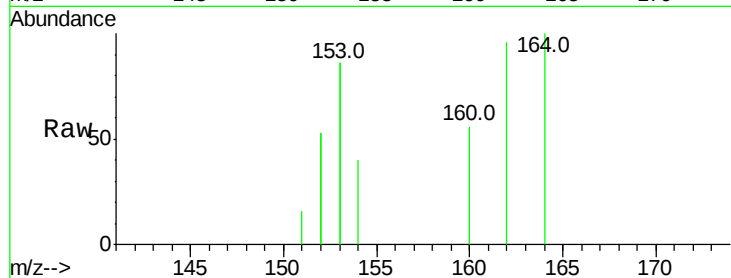




#16
Acenaphthene
Concen: 0.03 ng
RT: 14.85 min Scan# 982
Delta R.T. 0.00 min
Lab File: BE092676.D
Acq: 24 Jan 2017 21:39

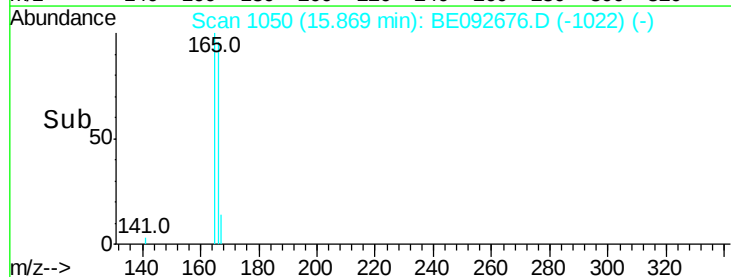
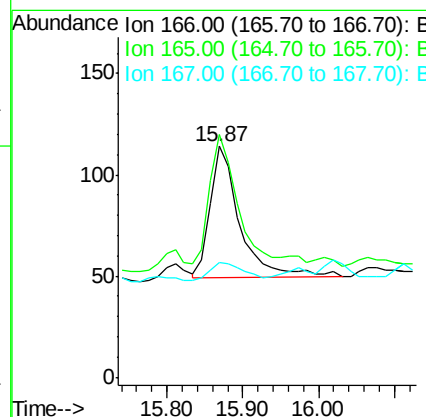
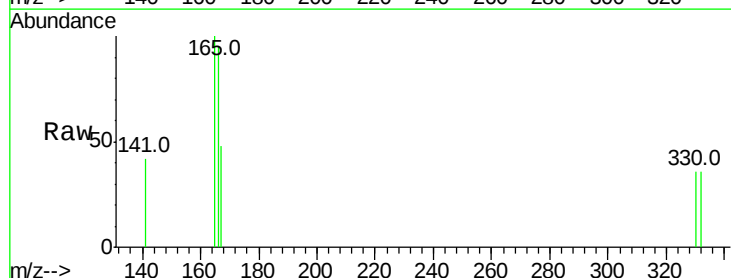
Instrument :
BNA_E
ClientSampled :

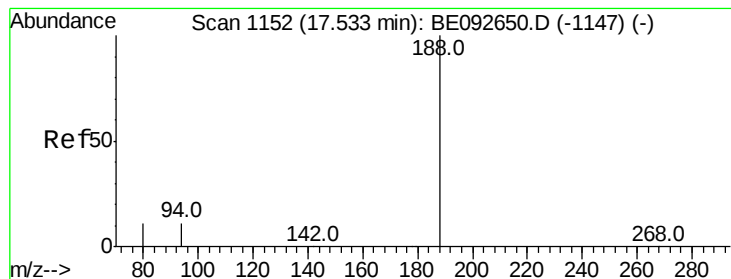
Tot Ion:154 Resp: 217
Ion Ratio Lower Upper
154 100
153 462.7 350.8 526.2
152 242.9 171.1 256.7



#17
Fluorene
Concen: 0.02 ng
RT: 15.87 min Scan# 1050
Delta R.T. 0.02 min
Lab File: BE092676.D
Acq: 24 Jan 2017 21:39

Tgt Ion:166 Resp: 175
Ion Ratio Lower Upper
166 100
165 93.1 78.2 117.4
167 14.9 11.0 16.4





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.53 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

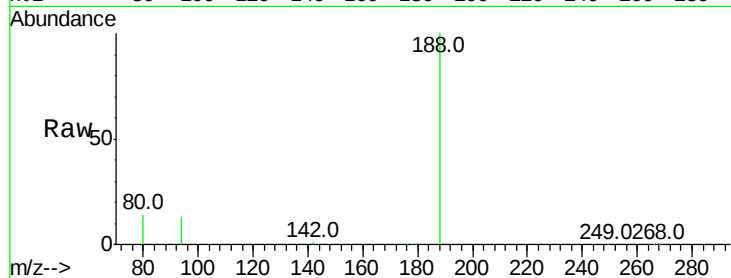
Tot Ion:188 Resp: 68232

Ion Ratio Lower Upper

188 100

94 13.3 3.2 4.8#

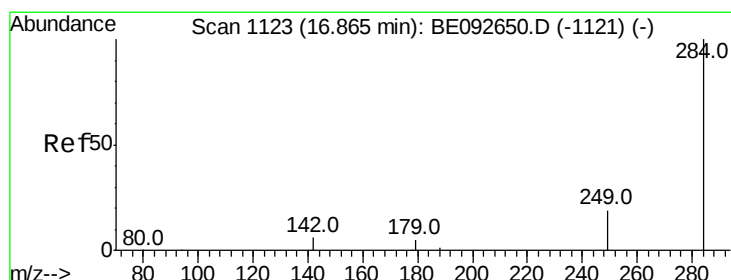
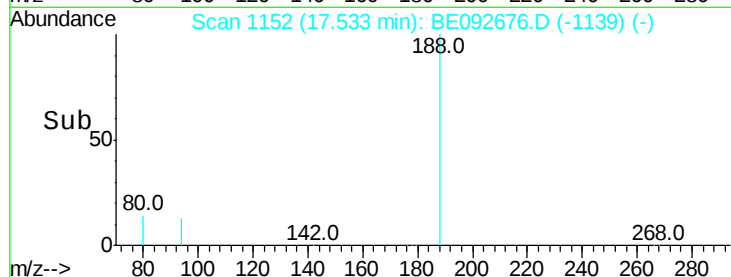
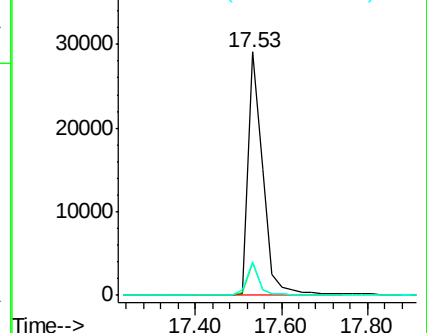
80 13.8 2.6 3.8#



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



#19

Hexachlorobenzene

Concen: 0.15 ng

RT: 16.66 min Scan# 1114

Delta R.T. -0.21 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

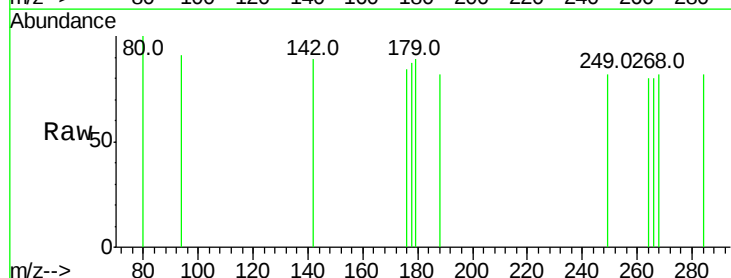
Tgt Ion:284 Resp: 529

Ion Ratio Lower Upper

284 100

142 70.7 29.1 43.7#

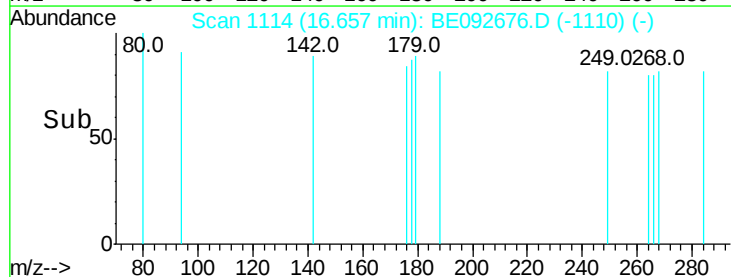
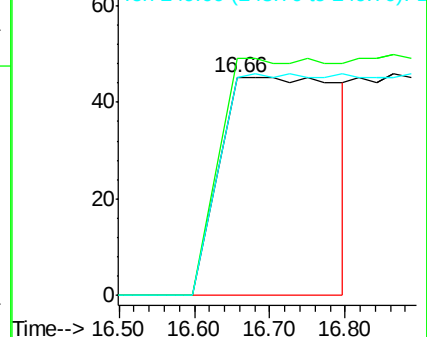
249 0.0 27.9 41.9#

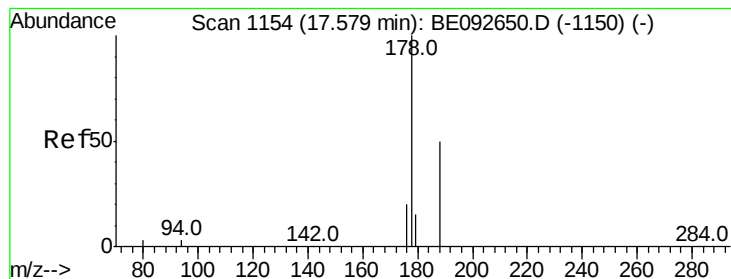


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#21

Phenanthrene

Concen: 0.29 ng

RT: 17.58 min Scan# 1154

Delta R.T. -0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

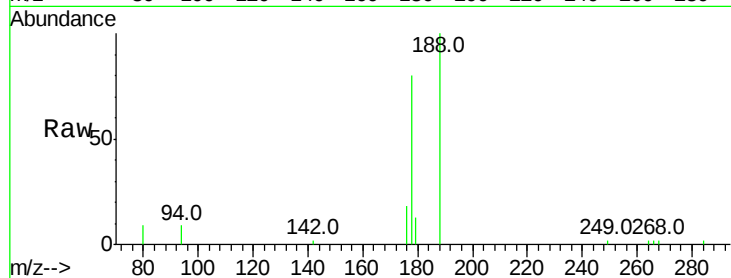
Tot Ion:178 Resp: 4307

Ion Ratio Lower Upper

178 100

176 19.2 15.8 23.8

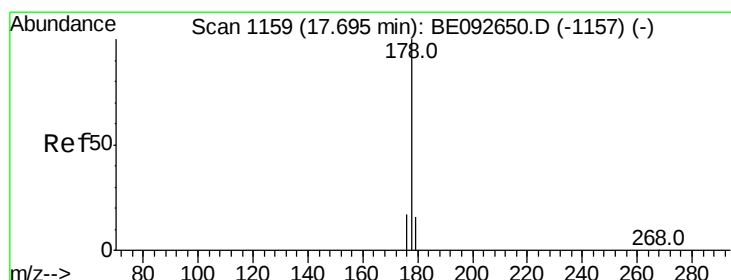
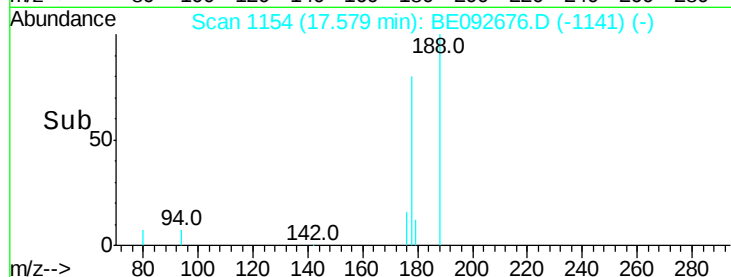
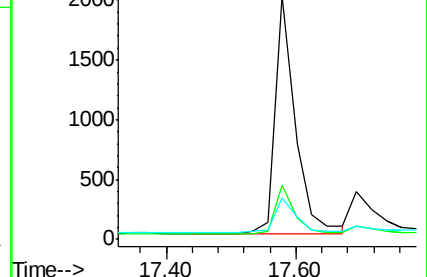
179 16.3 16.0 24.0



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: 0.07 ng

RT: 17.69 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

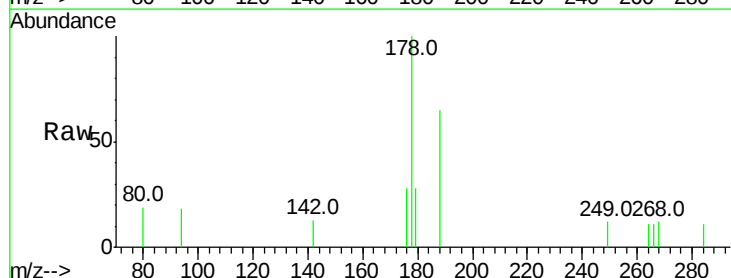
Tgt Ion:178 Resp: 1042

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

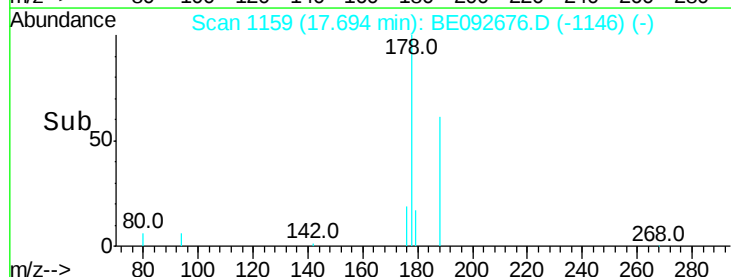
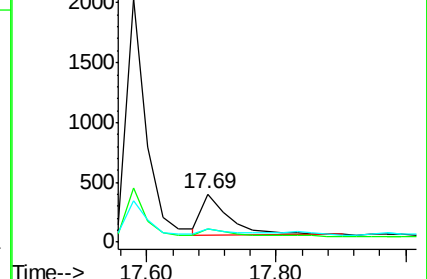
179 15.0 12.2 18.2

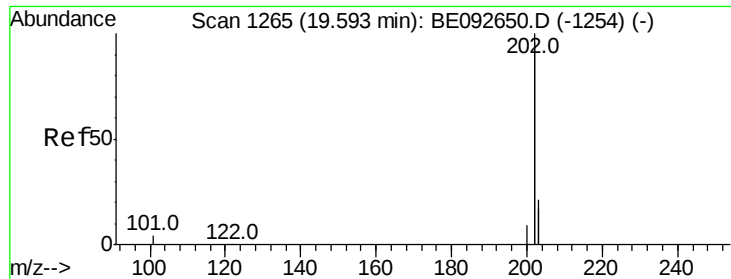


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

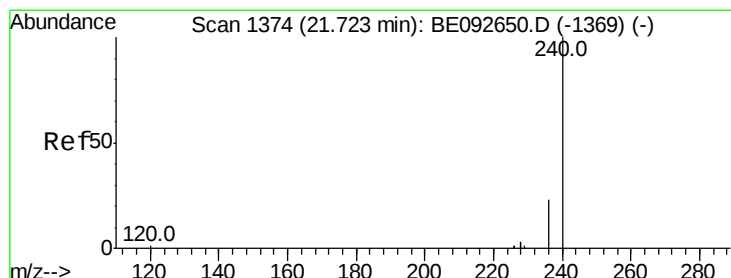
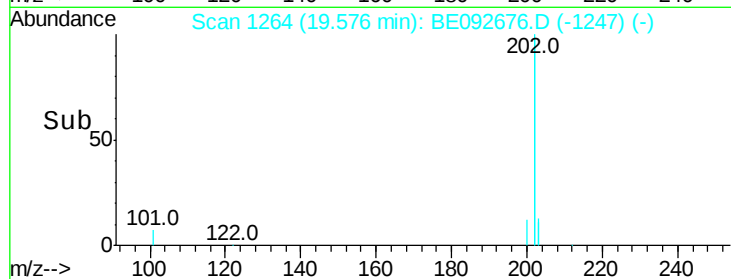
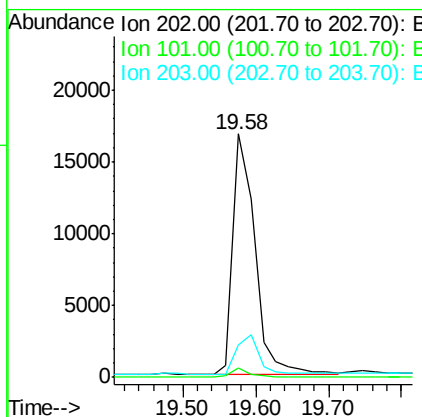
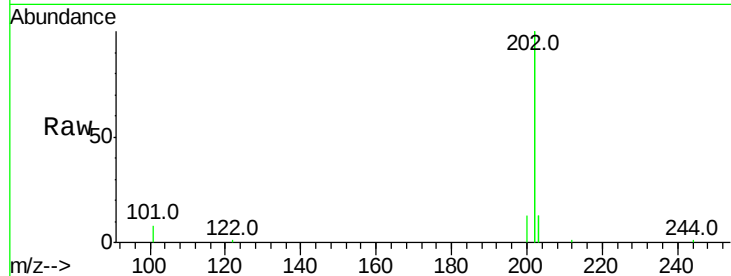




#23
 Fluoranthene
 Concen: 0.52 ng
 RT: 19.58 min Scan# 1264
 Delta R.T. -0.02 min
 Lab File: BE092676.D
 Acq: 24 Jan 2017 21:39

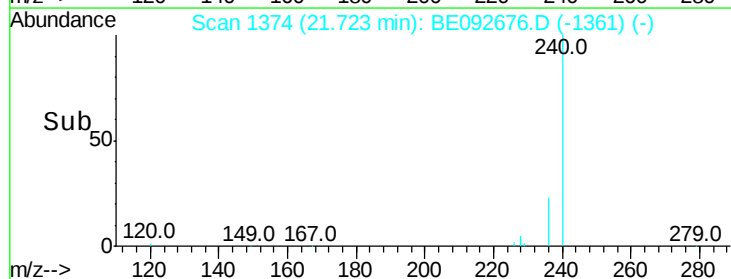
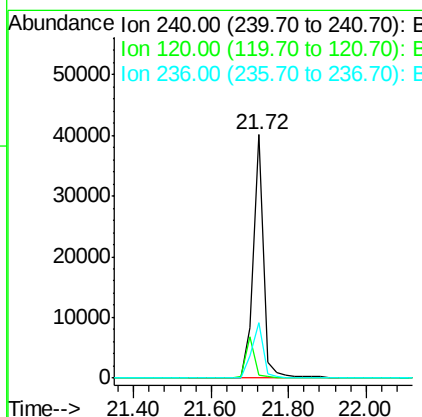
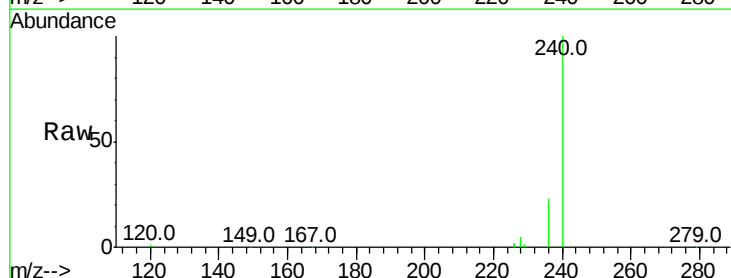
Instrument :
 BNA_E
 ClientSampleId :

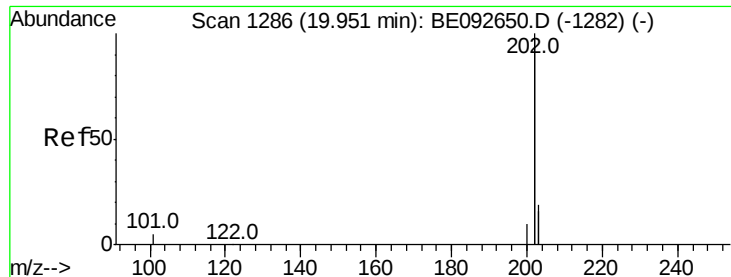
Tot Ion:202 Resp: 34795
 Ion Ratio Lower Upper
 202 100
 101 2.9 2.2 3.4
 203 17.1 13.7 20.5



#24
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.72 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: BE092676.D
 Acq: 24 Jan 2017 21:39

Tgt Ion:240 Resp: 72363
 Ion Ratio Lower Upper
 240 100
 120 1.3 2.6 4.0#
 236 22.7 24.6 37.0#





#25

Pvrene

Concen: 0.45 ng

RT: 19.95 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

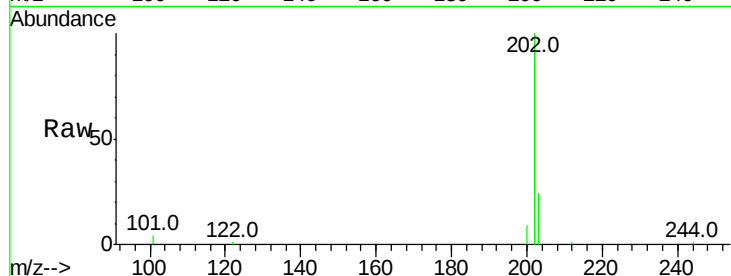
Tot Ion:202 Resp: 32398

Ion Ratio Lower Upper

202 100

200 5.3 4.2 6.4

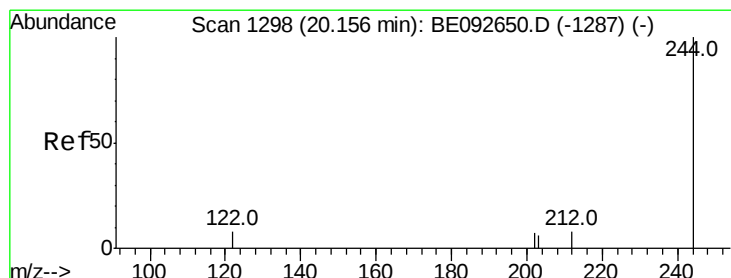
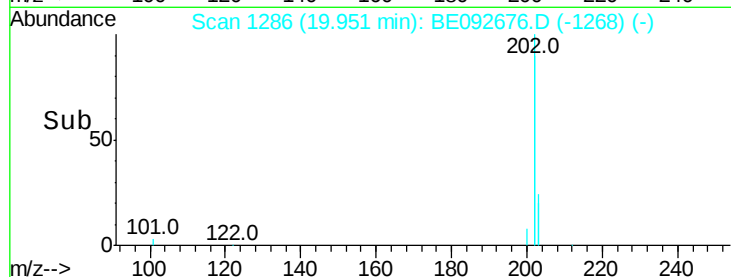
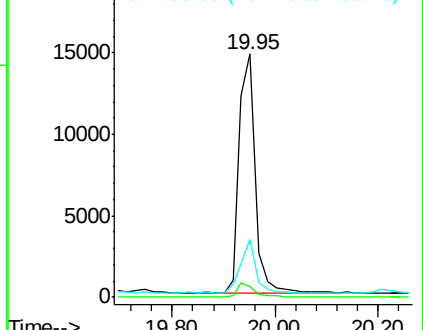
203 22.0 13.9 20.9#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#26

Terphenyl-d14

Concen: 0.42 ng

RT: 20.16 min Scan# 1298

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

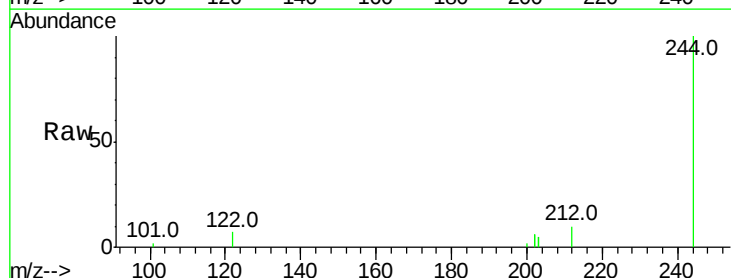
Tgt Ion:244 Resp: 4293

Ion Ratio Lower Upper

244 100

212 9.5 6.7 10.1

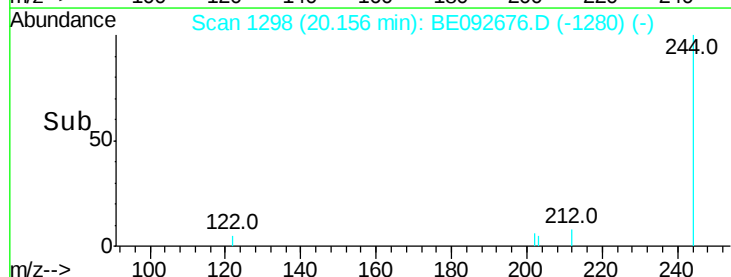
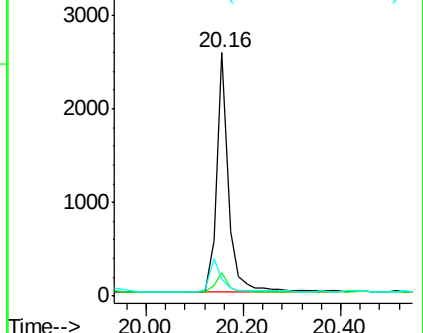
122 6.8 3.6 5.4#

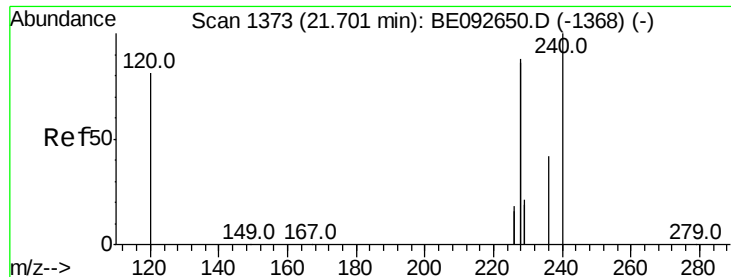


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#27

Benzo(a)anthracene

Concen: 0.57 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.05 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

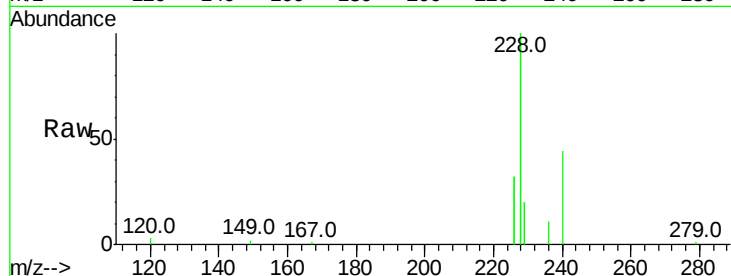
Tot Ion:228 Resp: 40372

Ion Ratio Lower Upper

228 100

226 31.6 23.6 35.4

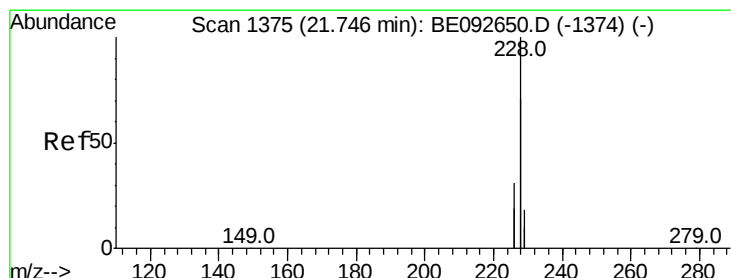
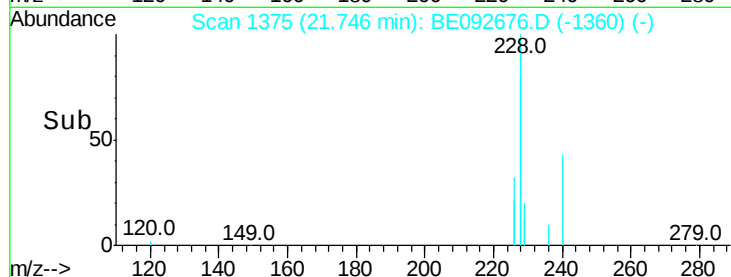
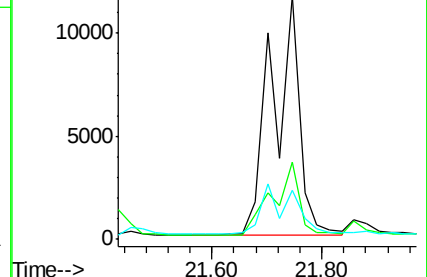
229 20.0 13.3 19.9#



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: 0.50 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

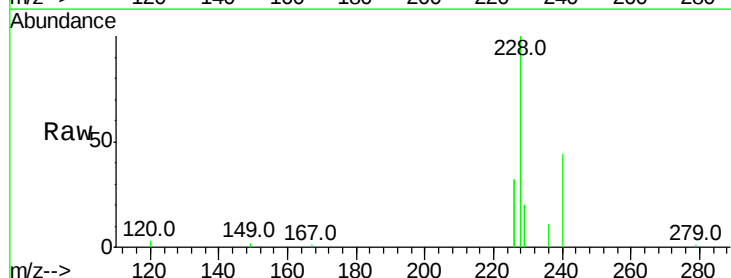
Tgt Ion:228 Resp: 40372

Ion Ratio Lower Upper

228 100

226 31.6 36.3 54.5#

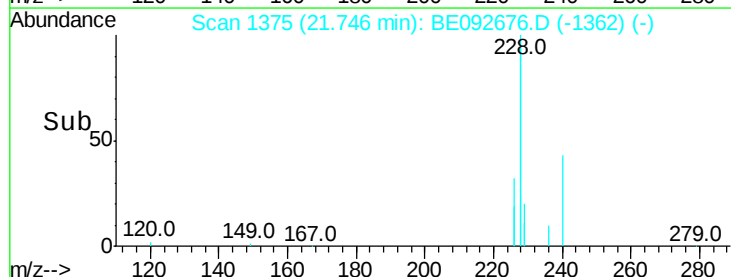
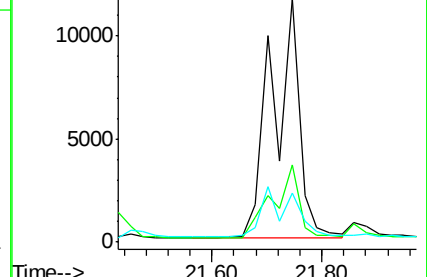
229 20.0 10.6 16.0#

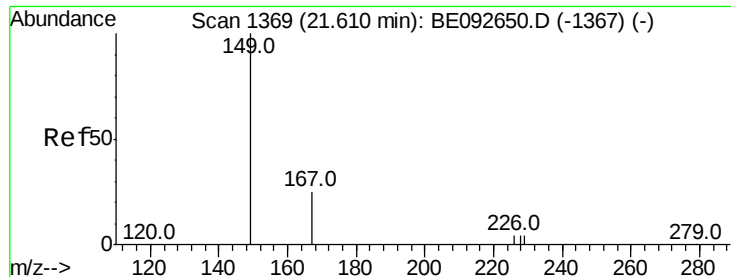


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.44 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

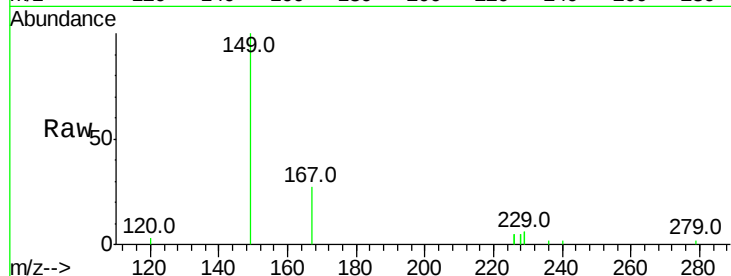
Instrument :

BNA_E

ClientSampleId :

Tot Ion:149 Resp: 3357

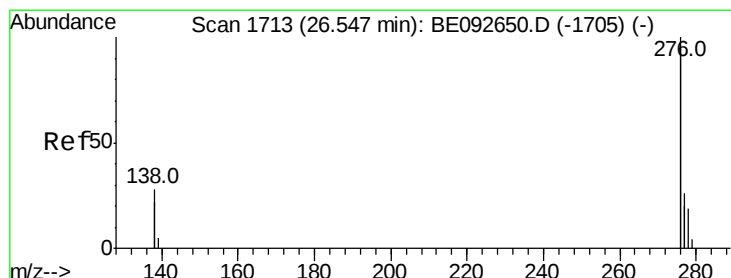
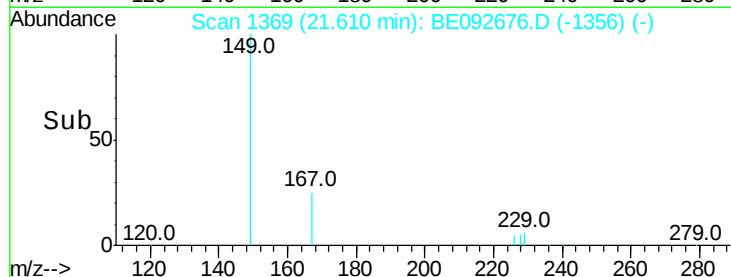
Ion	Ratio	Lower	Upper
149	100		
167	24.7	16.0	24.0#
279	0.0	16.0	24.0#



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



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.12 ng

RT: 26.55 min Scan# 1713

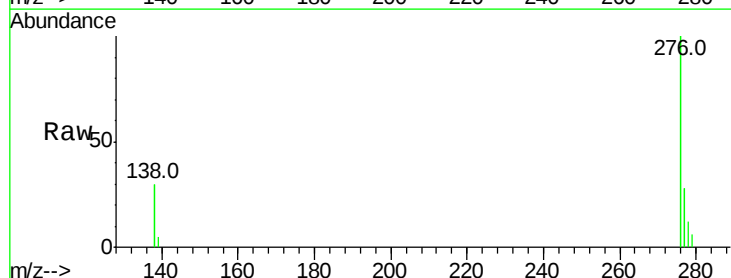
Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Tgt Ion:276 Resp: 10336

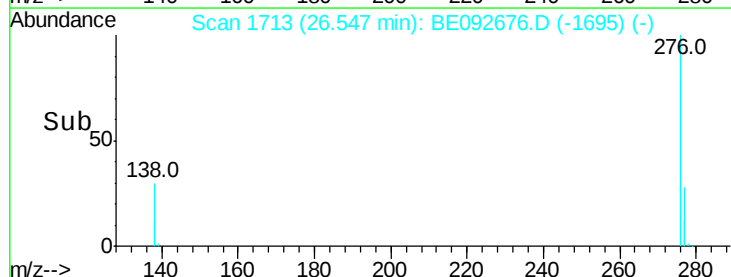
Ion	Ratio	Lower	Upper
276	100		
138	21.4	20.3	30.5
277	23.2	19.7	29.5

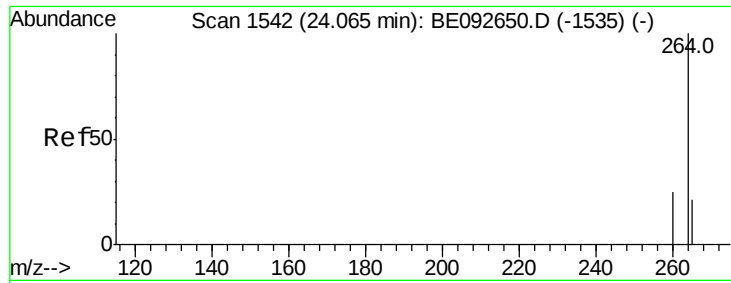


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

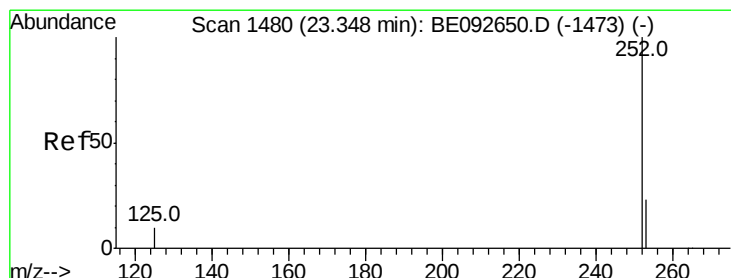
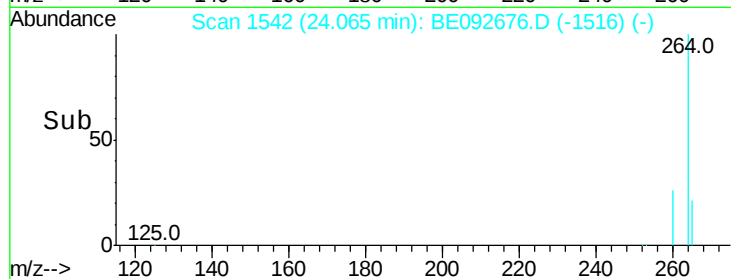
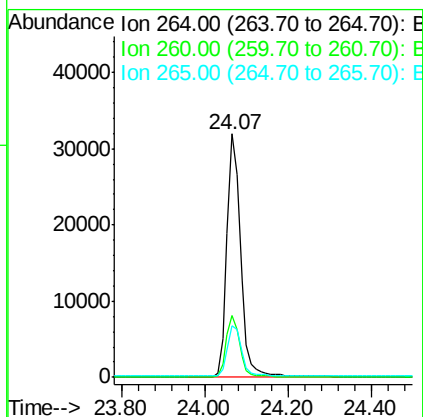
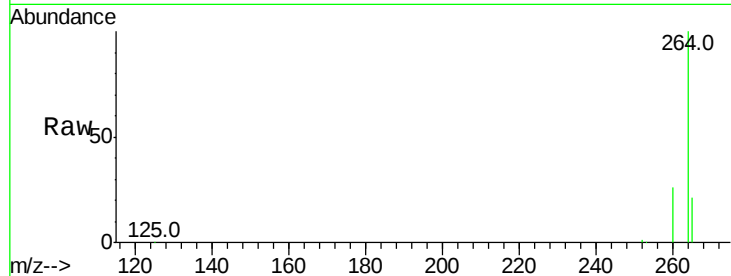




#31
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.07 min Scan# 1542
 Delta R.T. 0.00 min
 Lab File: BE092676.D
 Acq: 24 Jan 2017 21:39

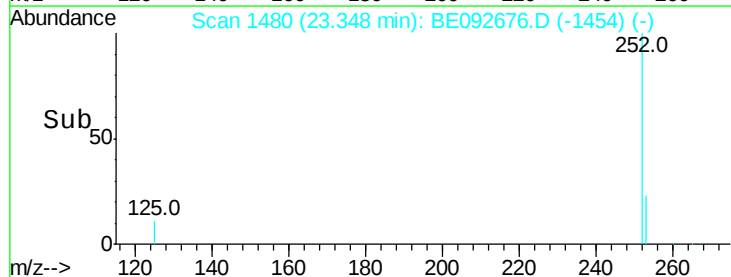
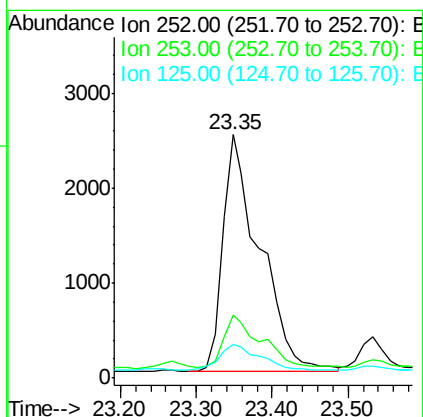
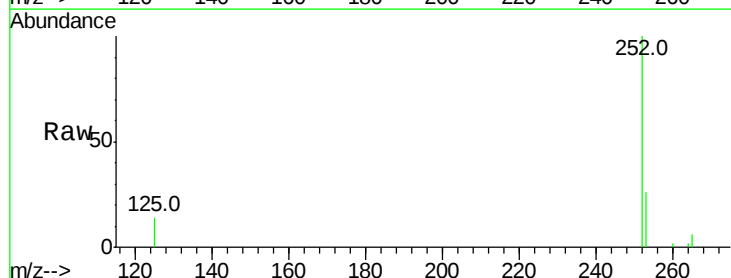
Instrument :
 BNA_E
 ClientSampleId :

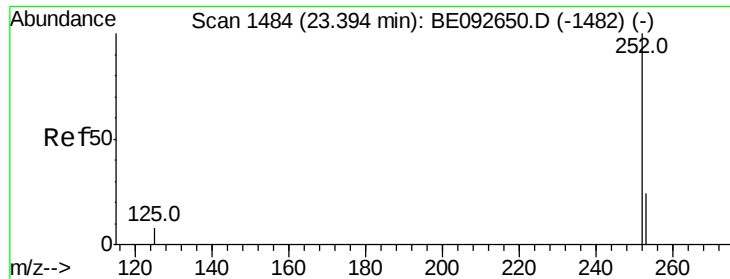
Tot Ion:264 Resp: 73654
 Ion Ratio Lower Upper
 264 100
 260 25.6 20.1 30.1
 265 21.5 17.9 26.9



#32
 Benzo(b)fluoranthene
 Concen: 0.47 ng
 RT: 23.35 min Scan# 1480
 Delta R.T. 0.00 min
 Lab File: BE092676.D
 Acq: 24 Jan 2017 21:39

Tgt Ion:252 Resp: 8398
 Ion Ratio Lower Upper
 252 100
 253 26.1 18.7 28.1
 125 14.0 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.47 ng

RT: 23.35 min Scan# 1480

Delta R.T. -0.05 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

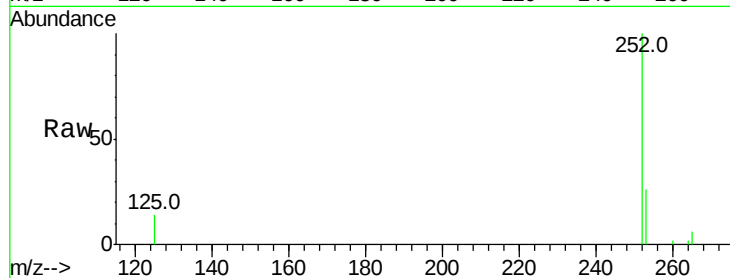
Tot Ion:252 Resp: 8398

Ion Ratio Lower Upper

252 100

253 26.1 20.3 30.5

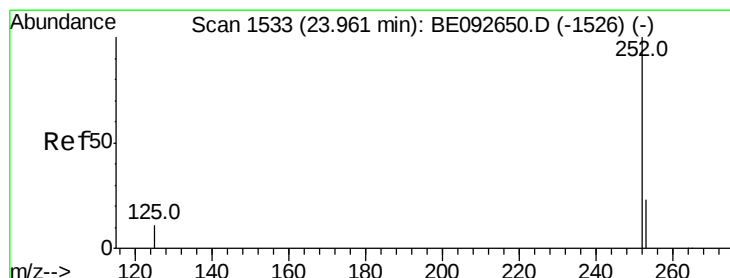
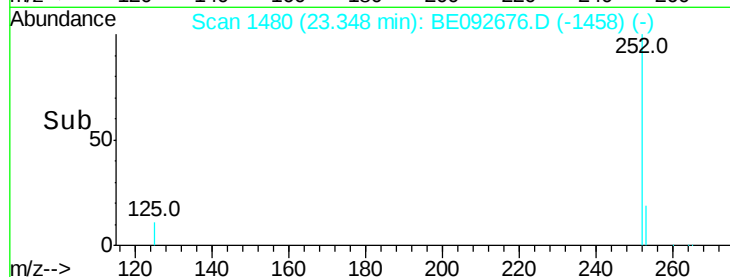
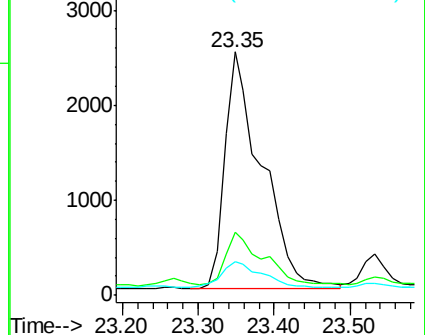
125 14.0 9.6 14.4



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



#34

Benzo(a)pyrene

Concen: 0.24 ng

RT: 23.96 min Scan# 1533

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

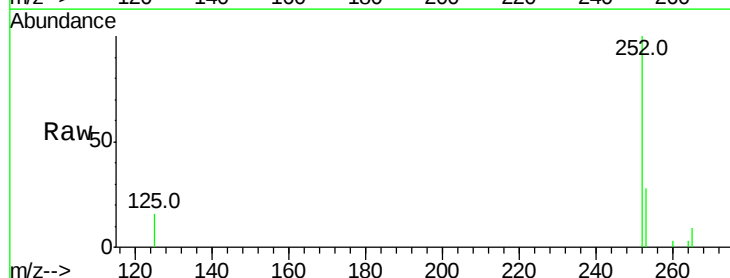
Tgt Ion:252 Resp: 4042

Ion Ratio Lower Upper

252 100

253 28.2 19.0 28.6

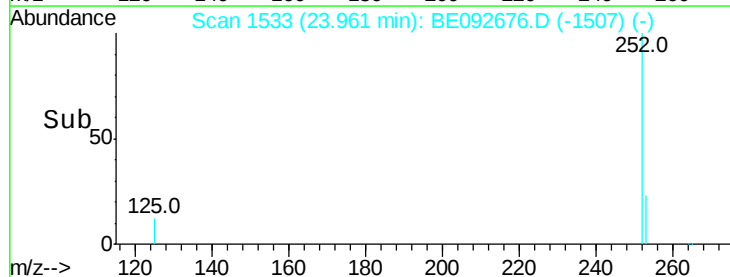
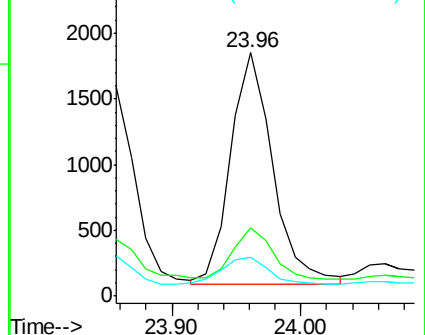
125 15.7 11.8 17.8

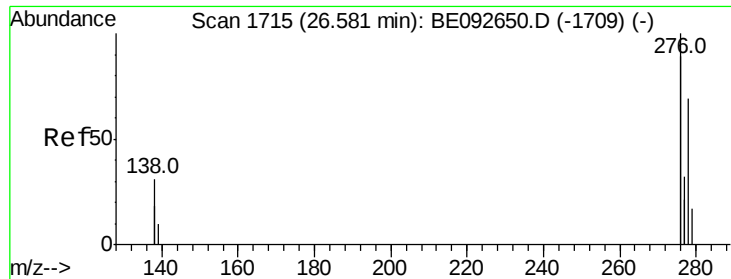


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 26.56 min Scan# 1714

Delta R.T. -0.02 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

Instrument :

BNA_E

ClientSampleId :

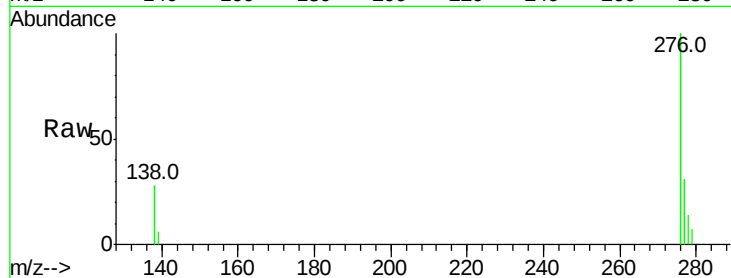
Tot Ion:278 Resp: 638

Ion Ratio Lower Upper

278 100

139 42.4 13.8 20.8#

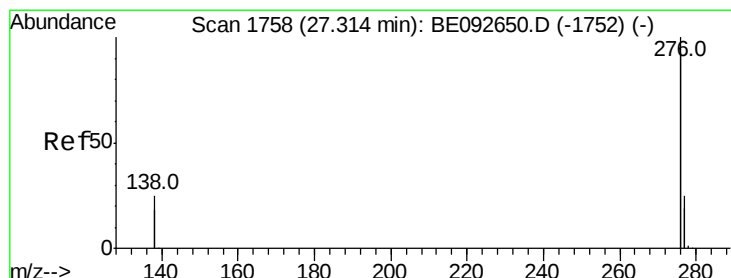
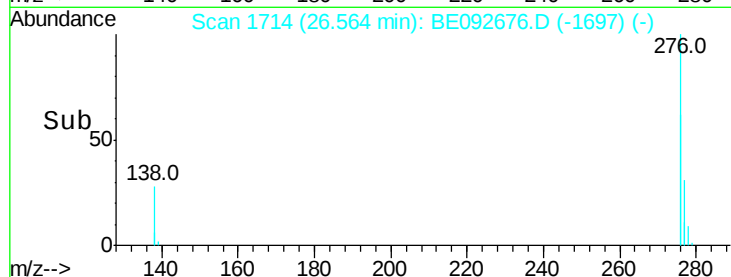
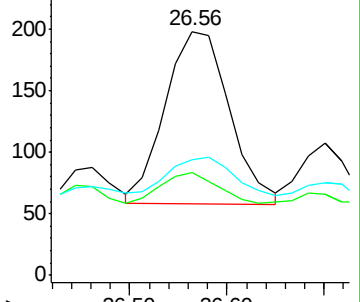
279 47.5 21.4 32.2#



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



#36

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.31 min Scan# 1758

Delta R.T. 0.00 min

Lab File: BE092676.D

Acq: 24 Jan 2017 21:39

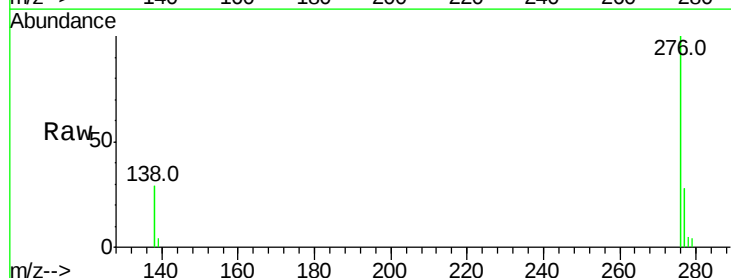
Tgt Ion:276 Resp: 10802

Ion Ratio Lower Upper

276 100

277 28.5 19.8 29.8

138 29.1 19.8 29.6



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

