

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020718\
 Data File : BE095546.D
 Acq On : 7 Feb 2018 9:16
 Operator : SJ/JU
 Sample : J1196-30
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 1048

Quant Time: Feb 08 01:29:59 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 06 20:27:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.44	152	1186	0.40	ng	0.00
7) Naphthalene-d8	11.28	136	4398	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	2486	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	5957	0.40	ng	0.00
27) Chrysene-d12	21.79	240	6547	0.40	ng	0.00
34) Perylene-d12	24.43	264	5857	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	1405	0.39	ng	0.00
5) Phenol-d6	7.57	99	1882	0.38	ng	0.00
8) Nitrobenzene-d5	9.61	82	1984	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	12.81	152	2930	0.40	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	315	0.28	ng	0.00
15) 2-Fluorobiphenyl	13.65	172	4860	0.45	ng	0.00
25) Fluoranthene-d10	19.69	212	32087	0.41	ng	0.00
29) Terphenyl-d14	20.25	244	6137	0.44	ng	0.00

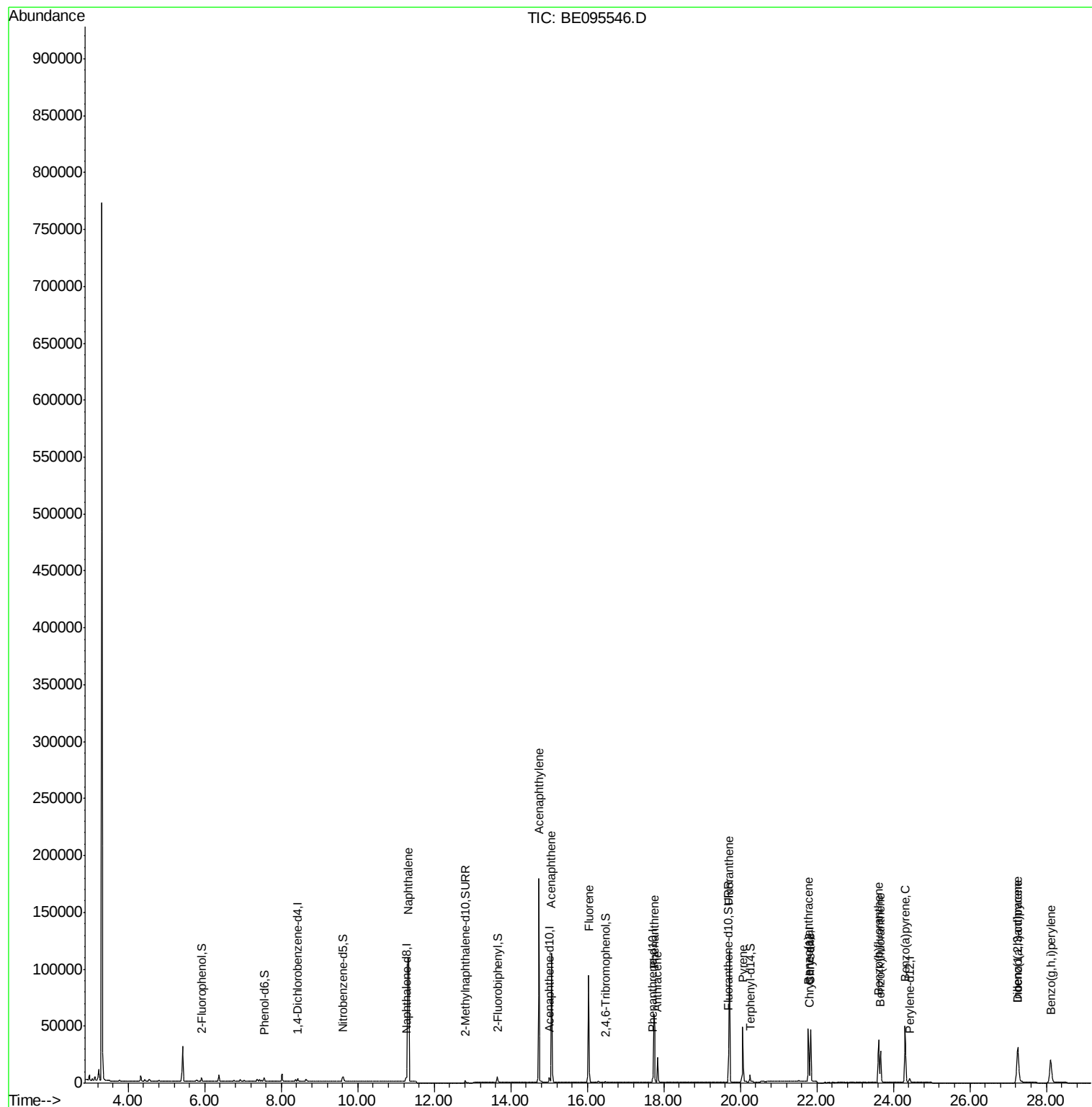
Target Compounds				Qvalue		
9) Naphthalene	11.33	128	224342	4.392	ng	99
16) Acenaphthylene	14.73	152	190104	13.406	ng	99
17) Acenaphthene	15.06	154	67111	7.614	ng	95
18) Fluorene	16.04	166	78203	7.059	ng	# 78
23) Phenanthrene	17.74	178	73478	4.017	ng	99
24) Anthracene	17.83	178	28472	1.666	ng	96
26) Fluoranthene	19.72	202	102987	4.463	ng	97
28) Pyrene	20.07	202	52289	1.902	ng	97
30) Benzo(a)anthracene	21.78	228	43617	1.999	ng	97
31) Chrysene	21.84	228	40736	1.894	ng	99
33) Indeno(1,2,3-cd)pyrene	27.24	276	31146	1.499	ng	98
35) Benzo(b)fluoranthene	23.61	252	57047	2.856	ng	# 87
36) Benzo(k)fluoranthene	23.66	252	40643	1.980	ng	97
37) Benzo(a)pyrene	24.31	252	81582	4.390	ng	# 94
38) Dibenzo(a,h)anthracene	27.26	278	53677	3.299	ng	# 95
39) Benzo(g,h,i)perylene	28.11	276	53193	3.045	ng	# 92

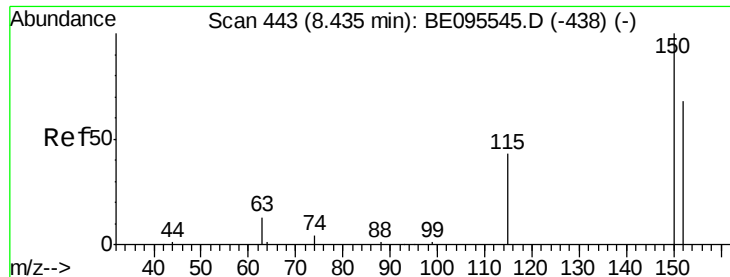
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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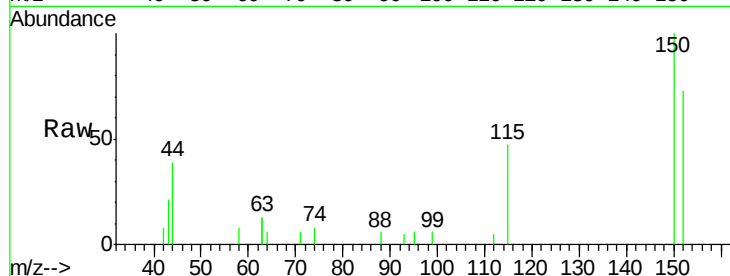


#1

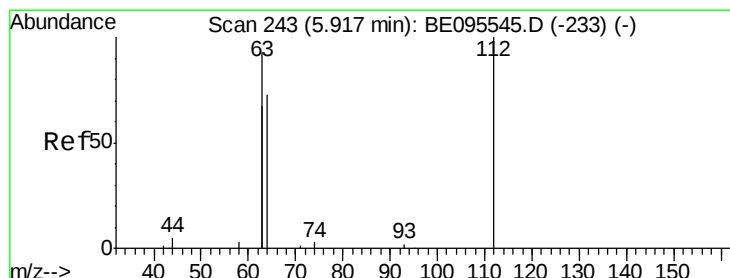
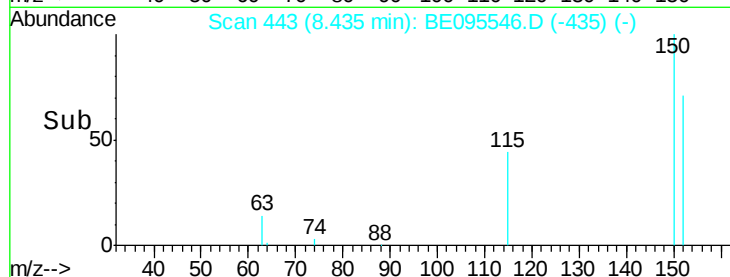
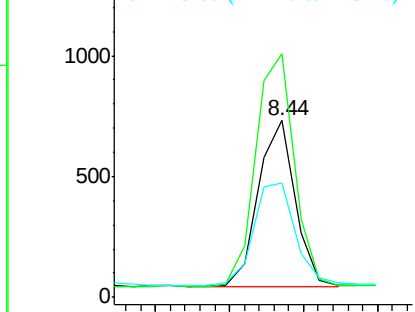
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.44 min Scan# 443
Delta R.T. 0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Instrument :
BNA_E
ClientSampled :
1048

Tot Ion:152 Resp: 1186
Ion Ratio Lower Upper
152 100
150 137.7 117.2 175.8
115 64.6 57.0 85.6



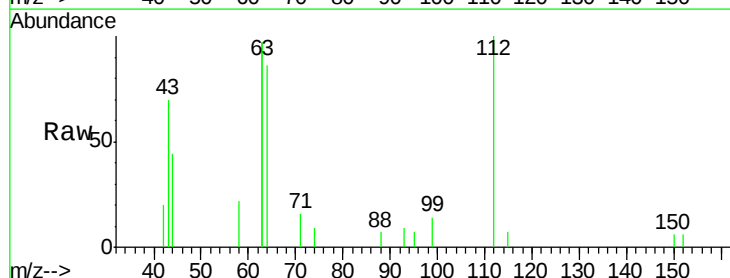
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



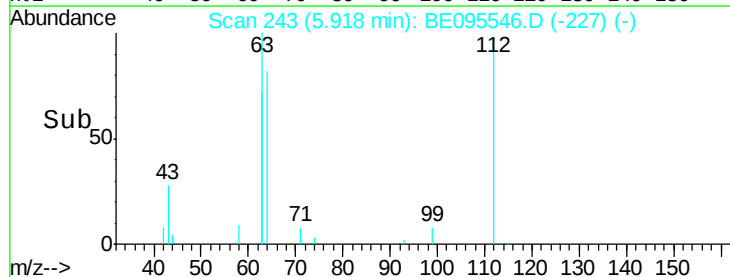
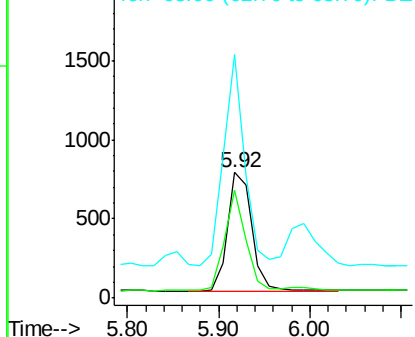
#4

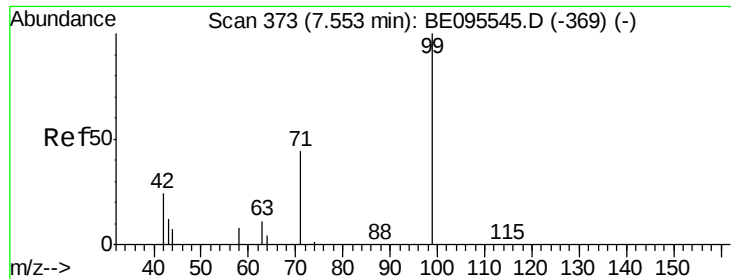
2-Fluorophenol
Concen: 0.393 ng
RT: 5.92 min Scan# 243
Delta R.T. 0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Tgt Ion:112 Resp: 1405
Ion Ratio Lower Upper
112 100
64 73.2 60.1 90.1
63 148.9 116.8 175.2



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: 0.380 ng

RT: 7.57 min Scan# 374

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

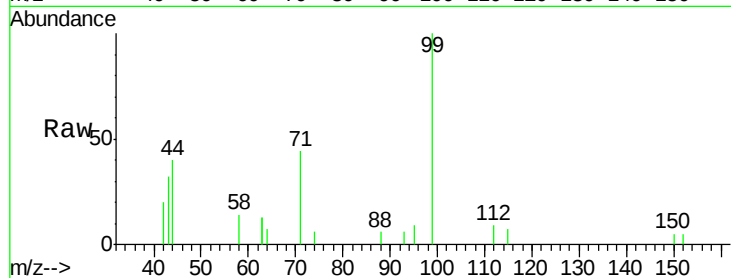
Tot Ion: 99 Resp: 1882

Ion Ratio Lower Upper

99 100

42 36.1 20.2 30.2#

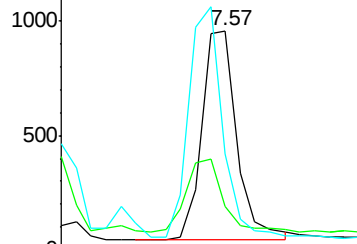
71 104.6 28.4 42.6#



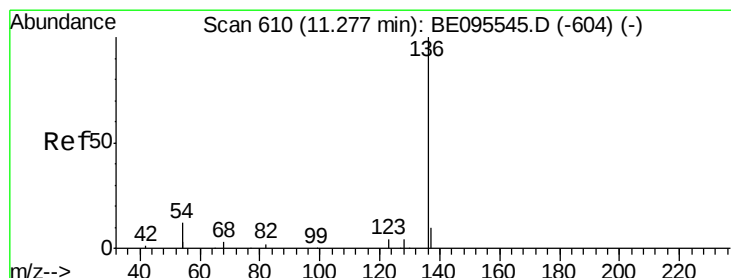
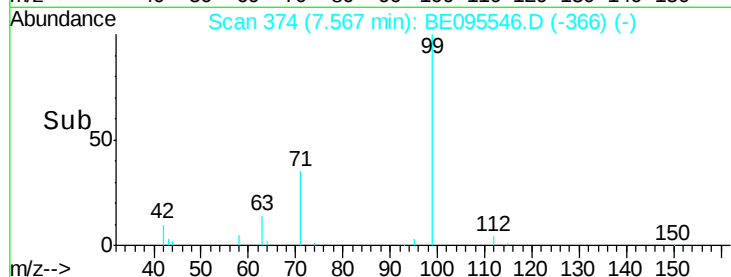
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.28 min Scan# 610

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Tgt Ion: 136 Resp: 4398

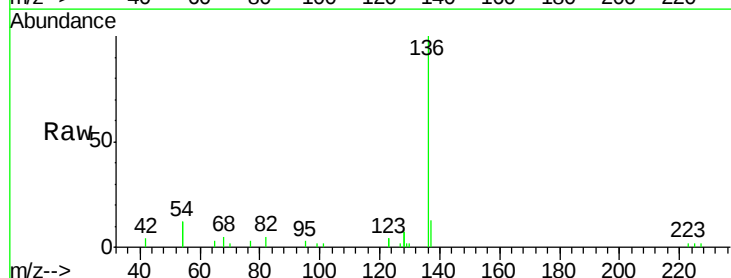
Ion Ratio Lower Upper

136 100

137 13.3 9.5 14.3

54 23.5 29.1 43.7#

68 5.1 6.2 9.2#

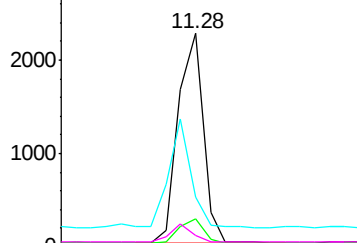


Abundance Ion 136.00 (135.70 to 136.70): E

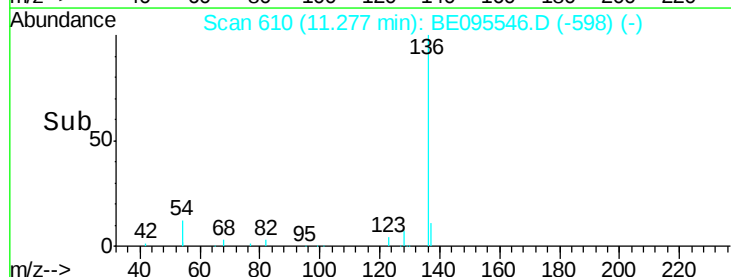
Ion 137.00 (136.70 to 137.70): E

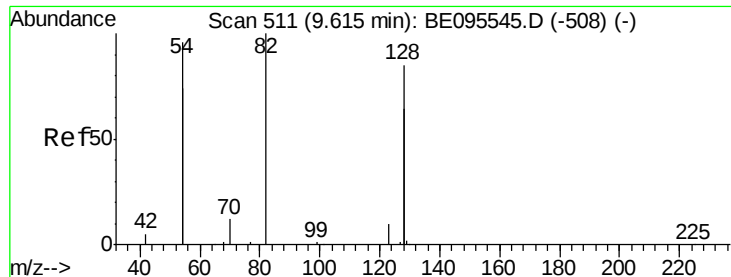
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 0.426 ng

RT: 9.61 min Scan# 511

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

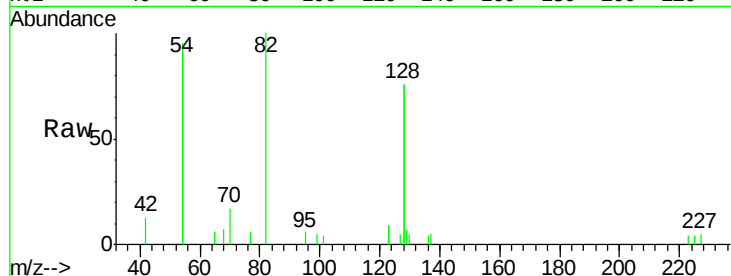
Tot Ion: 82 Resp: 1984

Ion Ratio Lower Upper

82 100

128 151.8 150.0 225.0

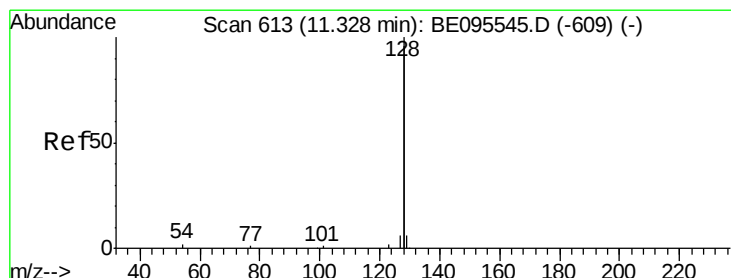
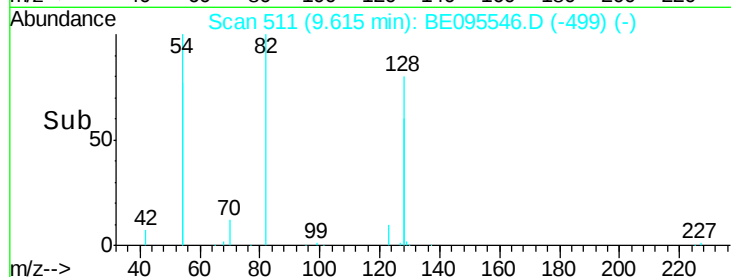
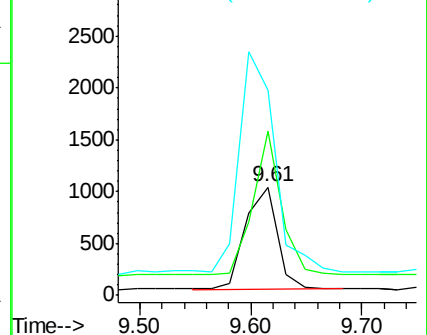
54 189.1 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 4.392 ng

RT: 11.33 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

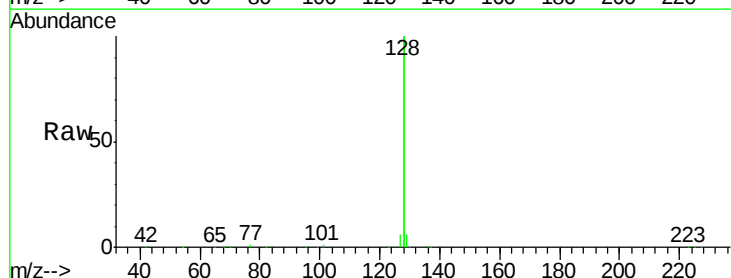
Tgt Ion: 128 Resp: 224342

Ion Ratio Lower Upper

128 100

129 2.9 2.6 3.8

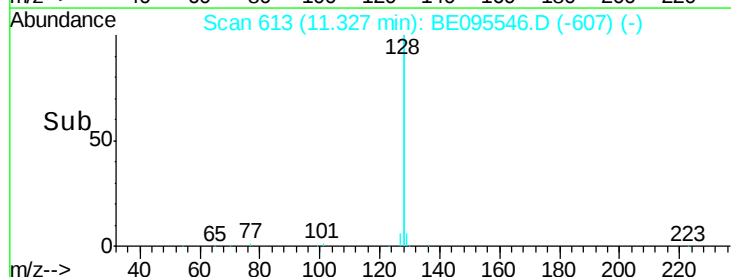
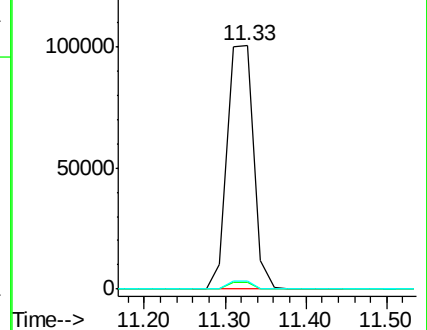
127 3.1 2.8 4.2

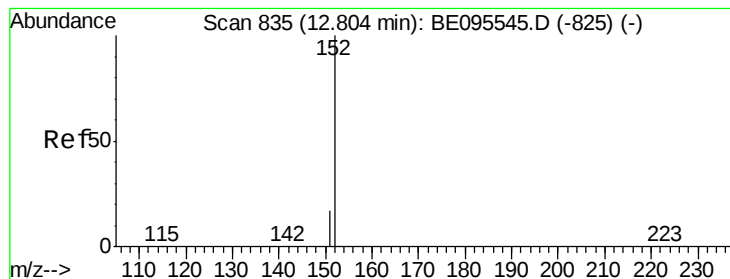


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.402 ng

RT: 12.81 min Scan# 836

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

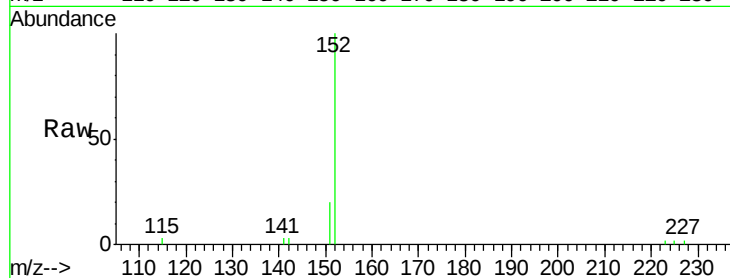
1048

Tot Ion:152 Resp: 2930

Ion Ratio Lower Upper

152 100

151 19.6 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.81

2000

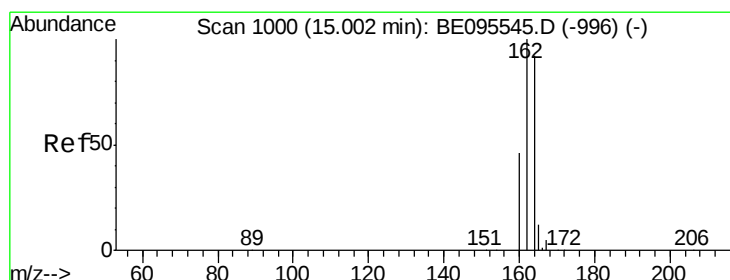
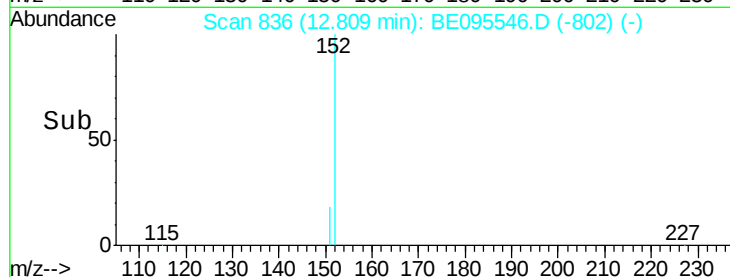
1500

1000

500

0

Time-->



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

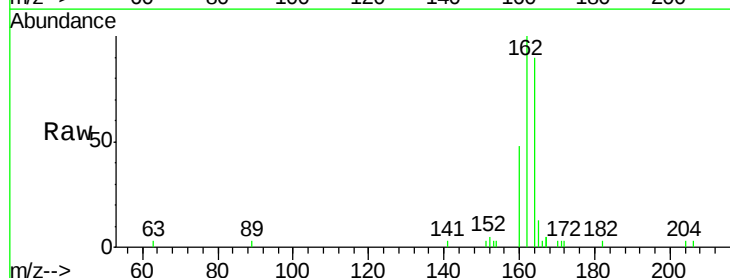
Tgt Ion:164 Resp: 2486

Ion Ratio Lower Upper

164 100

162 111.0 83.1 124.7

160 53.3 37.1 55.7



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

15.00

2000

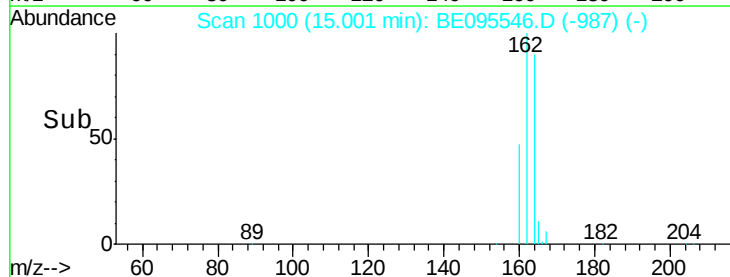
1500

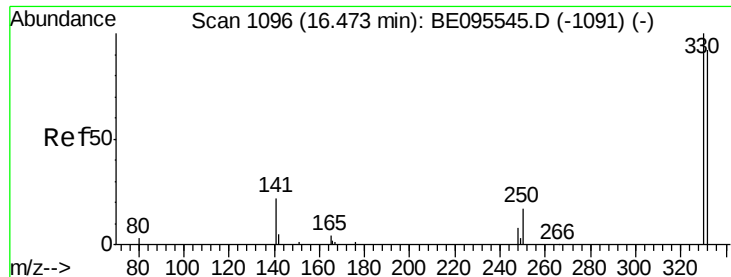
1000

500

0

Time-->





#14

2,4,6-Tribromophenol

Concen: 0.278 ng

RT: 16.47 min Scan# 1096

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

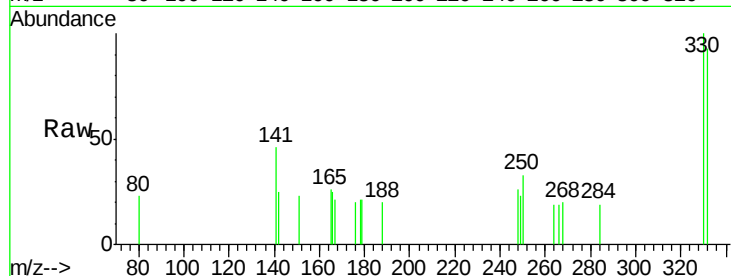
Tot Ion:330 Resp: 315

Ion Ratio Lower Upper

330 100

332 96.8 152.7 229.1#

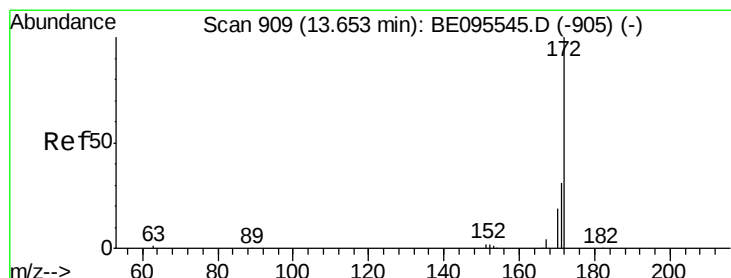
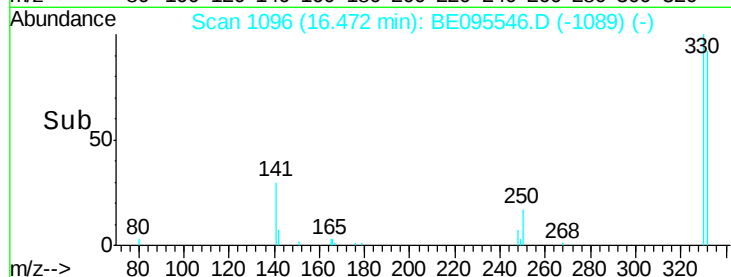
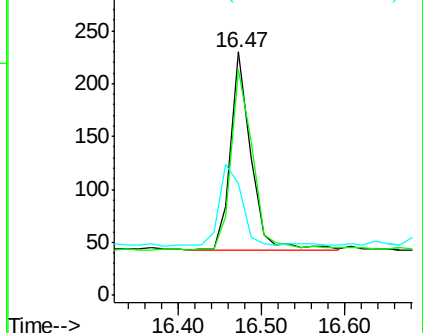
141 45.4 33.7 50.5



Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#15

2-Fluorobiphenyl

Concen: 0.453 ng

RT: 13.65 min Scan# 909

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

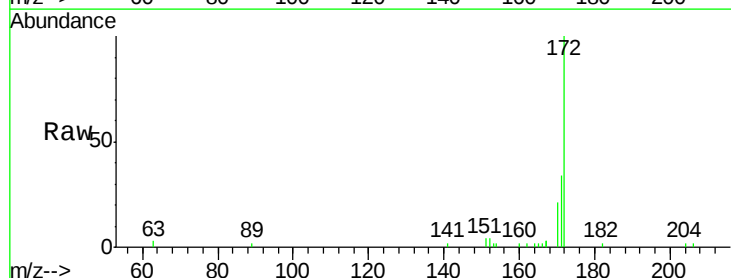
Tgt Ion:172 Resp: 4860

Ion Ratio Lower Upper

172 100

171 33.9 29.9 44.9

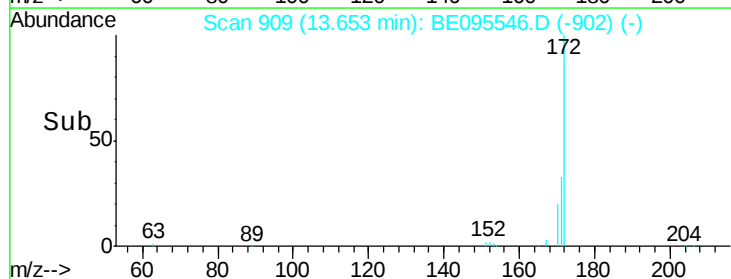
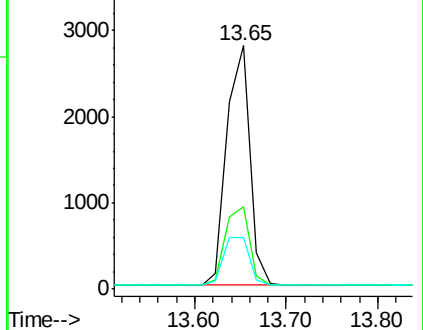
170 21.3 21.8 32.8#

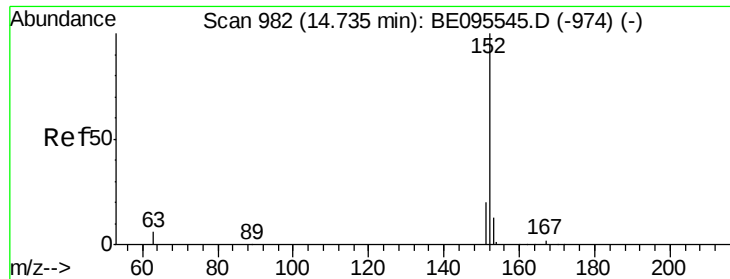


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

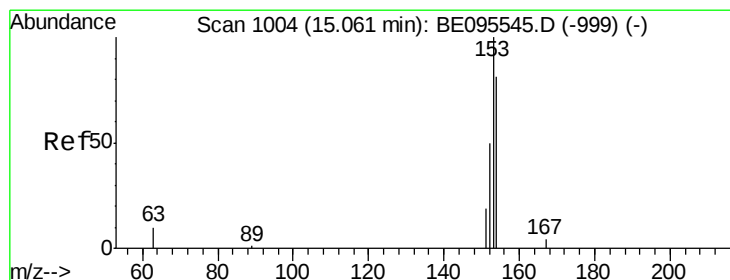
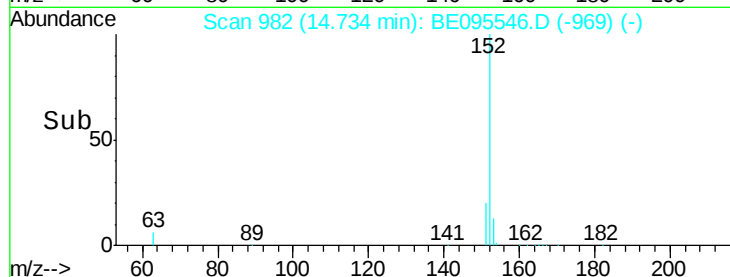
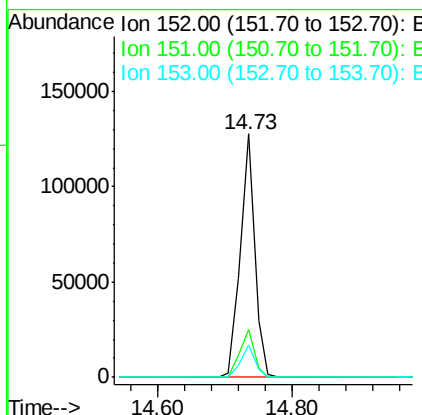
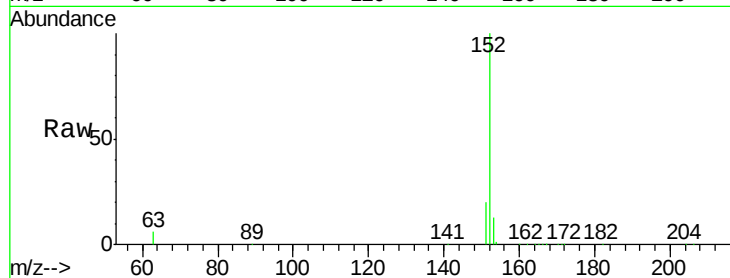




#16
Acenaphthylene
Concen: 13.406 ng
RT: 14.73 min Scan# 982
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

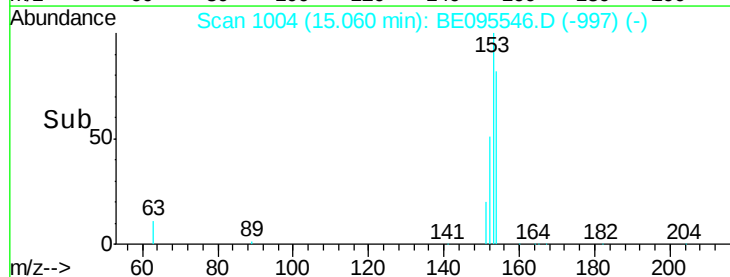
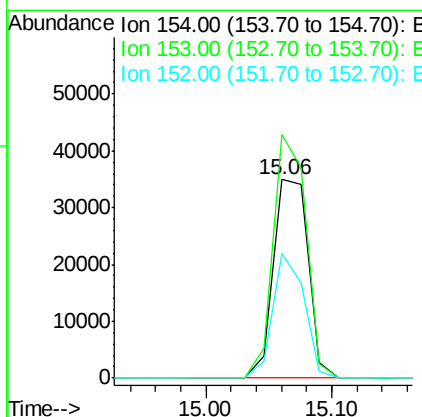
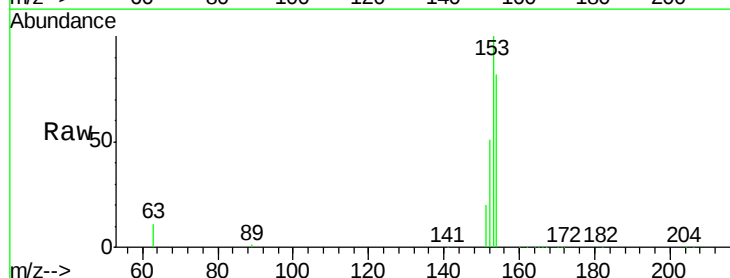
Instrument :
BNA_E
ClientSampleId :
1048

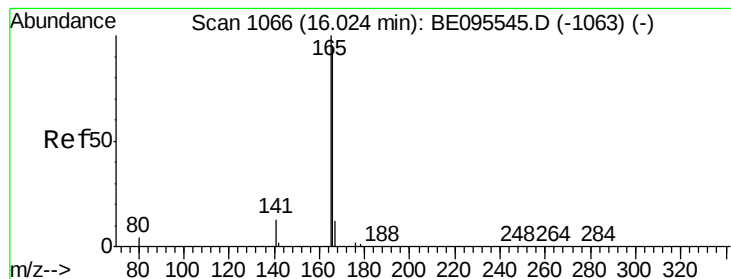
Tot Ion:152 Resp: 190104
Ion Ratio Lower Upper
152 100
151 20.0 15.7 23.5
153 13.1 10.5 15.7



#17
Acenaphthene
Concen: 7.614 ng
RT: 15.06 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Tgt Ion:154 Resp: 67111
Ion Ratio Lower Upper
154 100
153 115.9 89.2 133.8
152 56.6 42.0 63.0





#18

Fluorene

Concen: 7.059 ng

RT: 16.04 min Scan# 1067

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

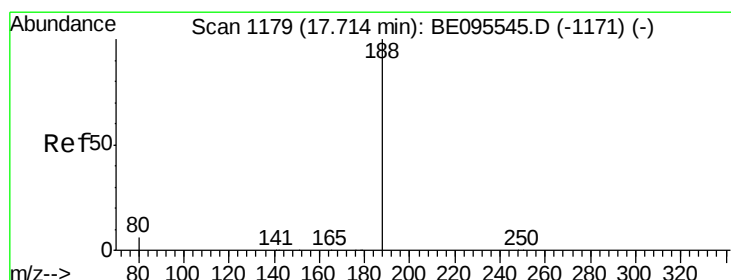
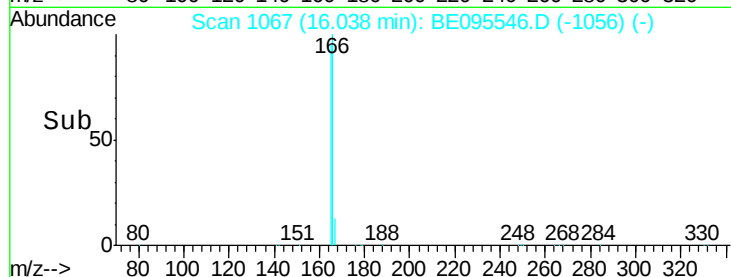
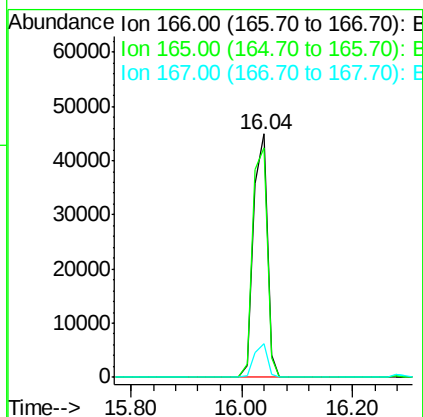
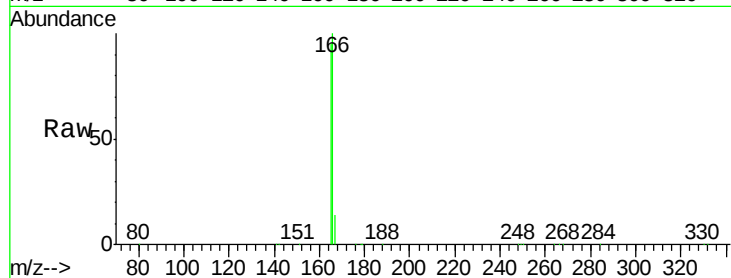
Tot Ion:166 Resp: 78203

Ion Ratio Lower Upper

166 100

165 99.9 77.8 116.6

167 13.3 42.4 63.6#



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1179

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

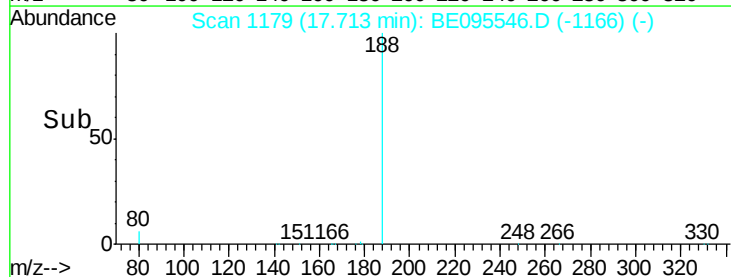
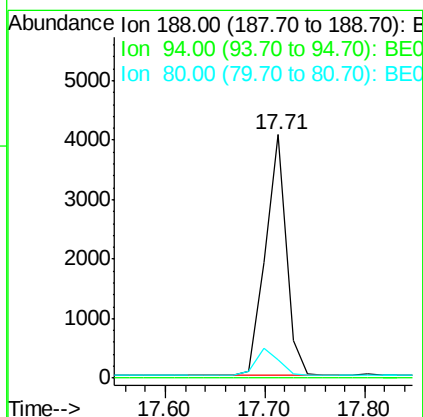
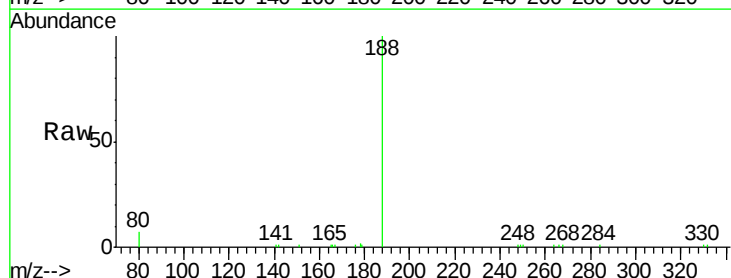
Tgt Ion:188 Resp: 5957

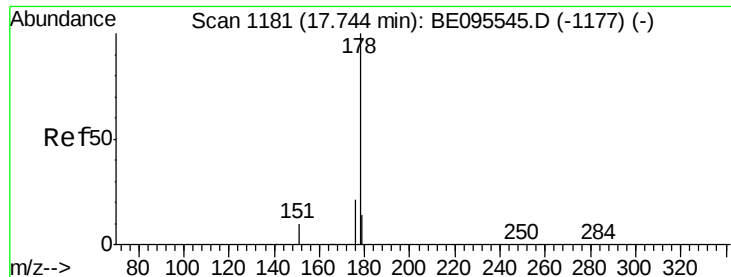
Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 7.5 3.6 5.4#





#23

Phenanthrene

Concen: 4.017 ng

RT: 17.74 min Scan# 1181

Delta R.T. -0.01 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

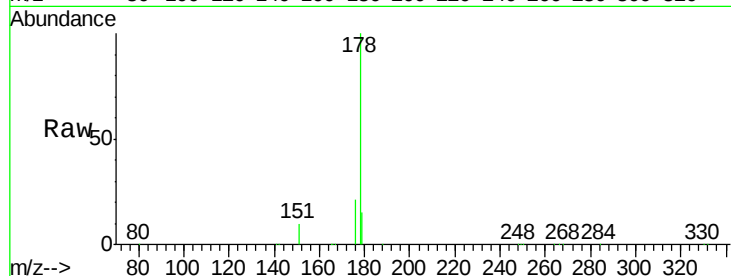
Tot Ion:178 Resp: 73478

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

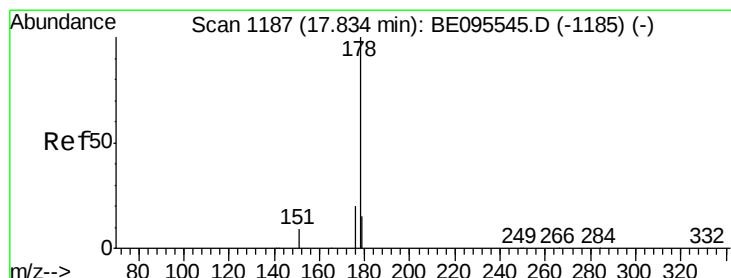
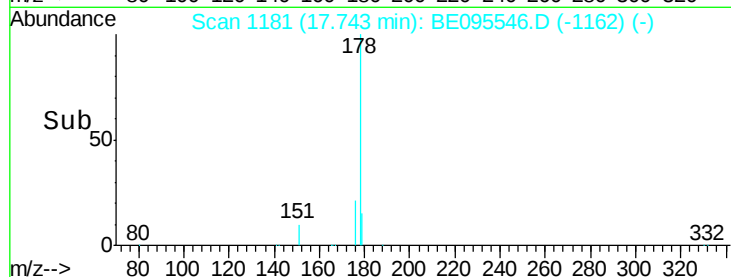
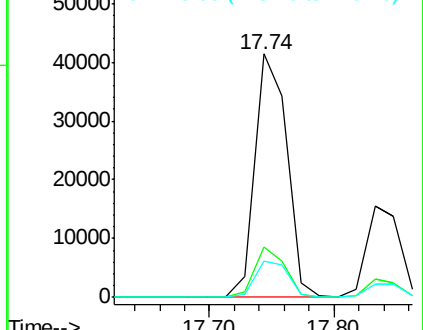
179 15.2 11.8 17.6



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

Anthracene

Concen: 1.666 ng

RT: 17.83 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

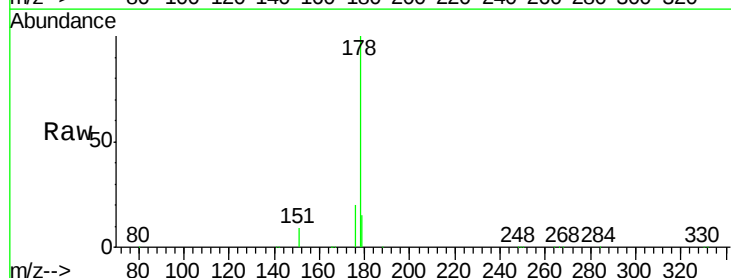
Tgt Ion:178 Resp: 28472

Ion Ratio Lower Upper

178 100

176 18.7 12.8 19.2

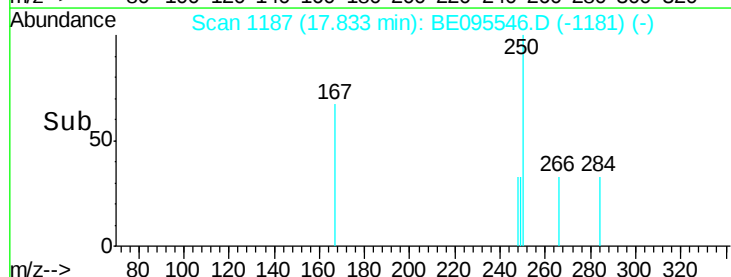
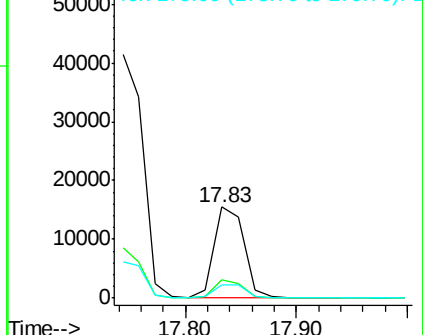
179 15.3 13.0 19.6

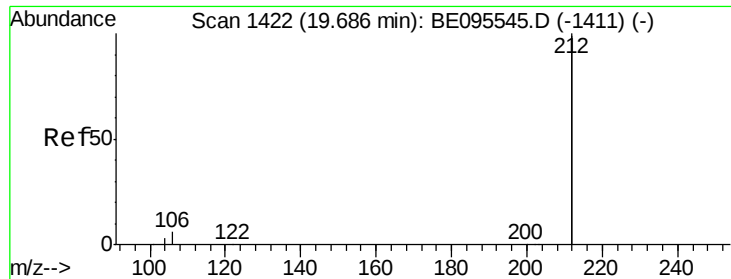


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.409 ng

RT: 19.69 min Scan# 1422

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

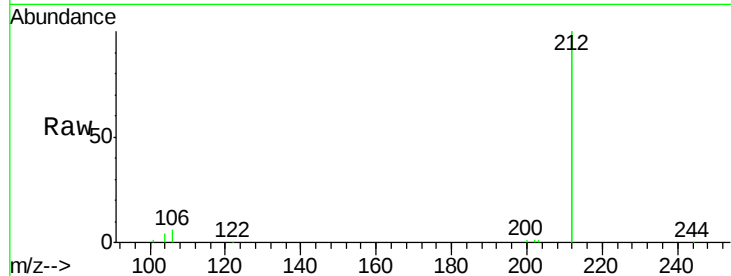
Tot Ion:212 Resp: 32087

Ion Ratio Lower Upper

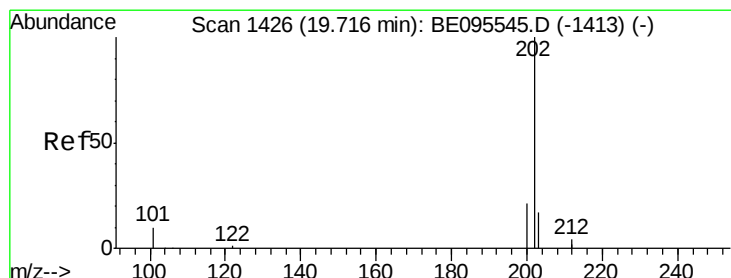
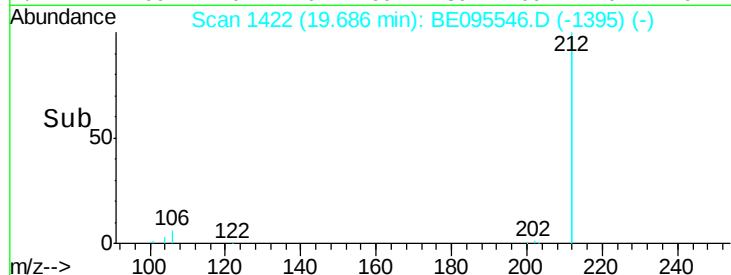
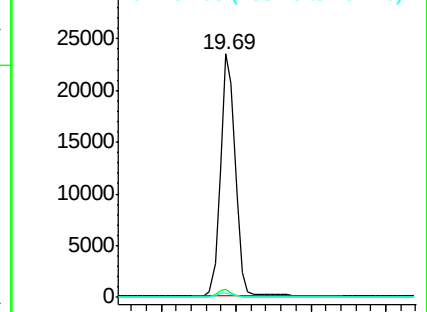
212 100

106 2.9 2.8 4.2

104 1.7 1.6 2.4



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

Fluoranthene

Concen: 4.463 ng

RT: 19.72 min Scan# 1426

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

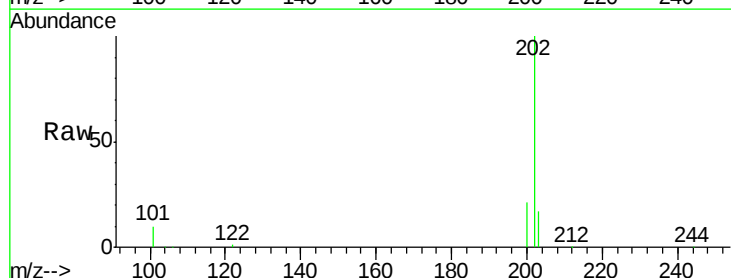
Tgt Ion:202 Resp: 102987

Ion Ratio Lower Upper

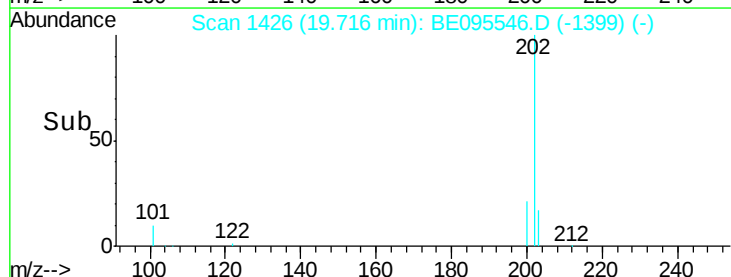
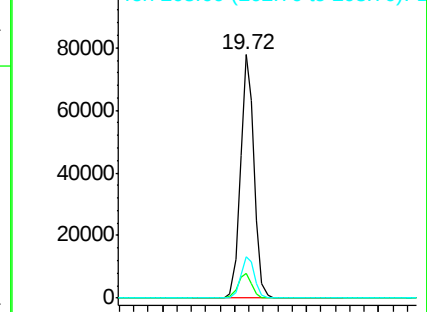
202 100

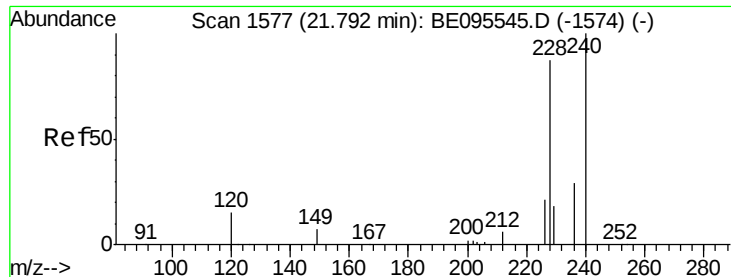
101 10.1 9.8 14.8

203 17.4 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.79 min Scan# 1577

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

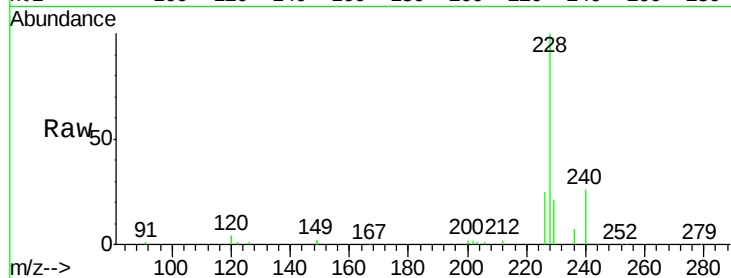
Tot Ion:240 Resp: 6547

Ion Ratio Lower Upper

240 100

120 15.4 5.5 8.3#

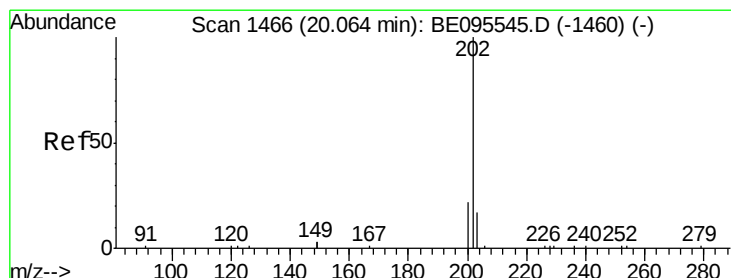
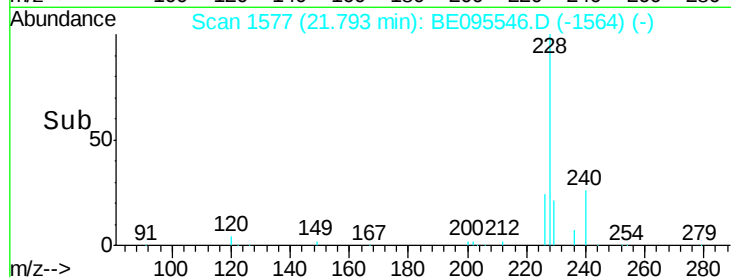
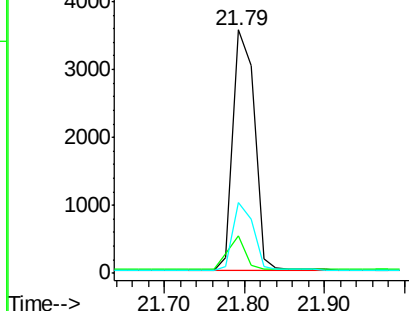
236 28.9 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 1.902 ng

RT: 20.07 min Scan# 1466

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

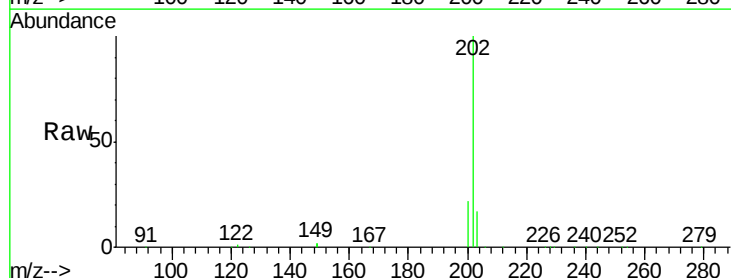
Tgt Ion:202 Resp: 52289

Ion Ratio Lower Upper

202 100

200 18.7 16.6 25.0

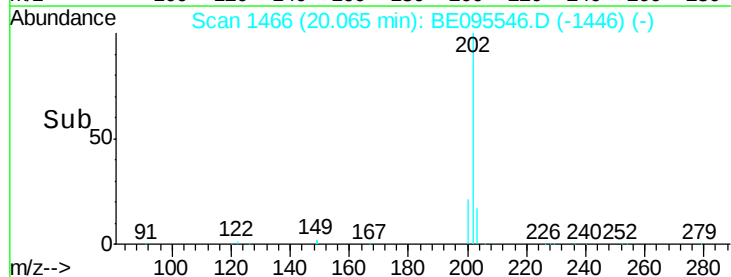
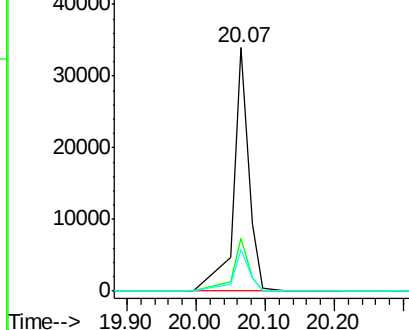
203 17.5 13.8 20.8

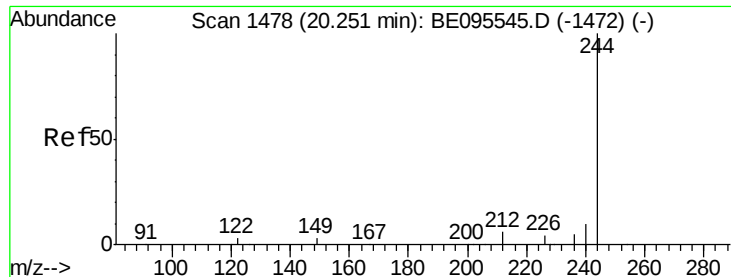


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.440 ng

RT: 20.25 min Scan# 1478

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

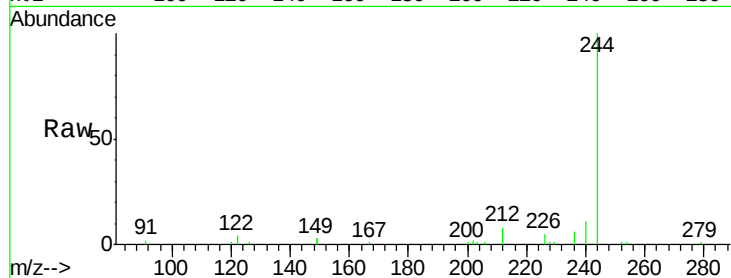
Tot Ion:244 Resp: 6137

Ion Ratio Lower Upper

244 100

212 7.5 25.4 38.0#

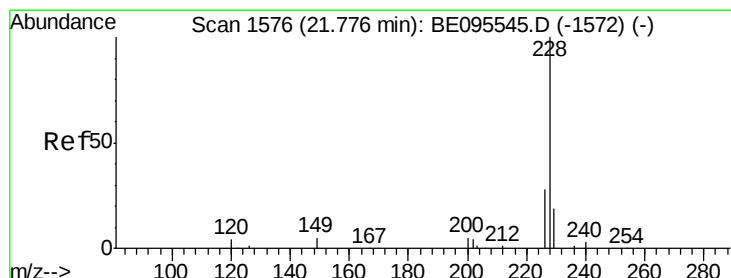
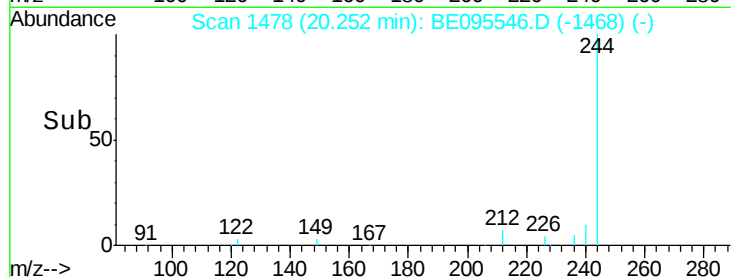
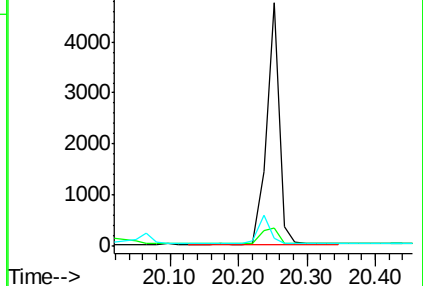
122 3.5 8.1 12.1#



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



#30

Benzo(a)anthracene

Concen: 1.999 ng

RT: 21.78 min Scan# 1576

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

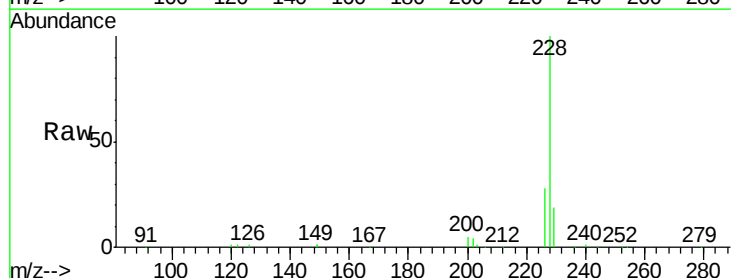
Tgt Ion:228 Resp: 43617

Ion Ratio Lower Upper

228 100

226 28.5 24.0 36.0

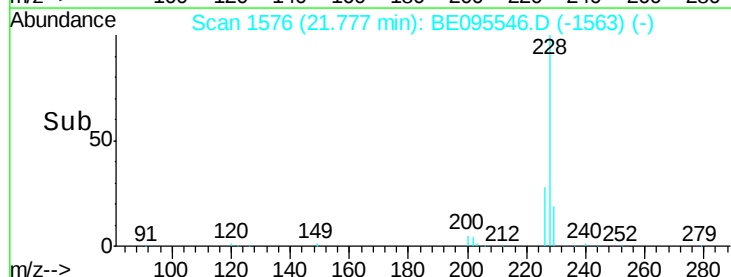
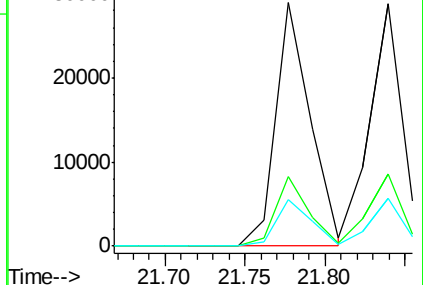
229 19.0 16.0 24.0

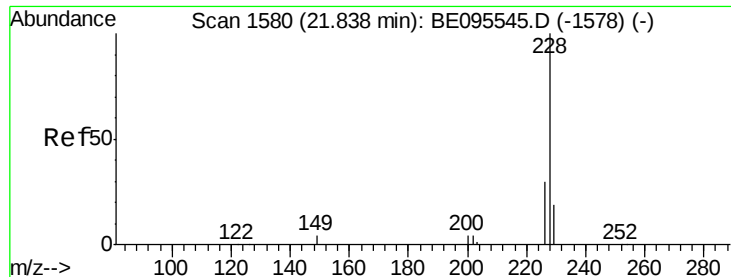


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 1.894 ng

RT: 21.84 min Scan# 1580

Delta R.T. -0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

Instrument :

BNA_E

ClientSampleId :

1048

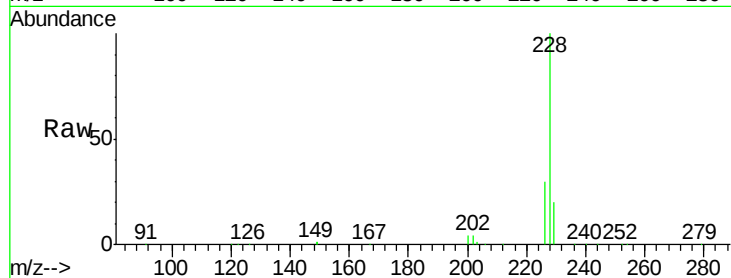
Tot Ion:228 Resp: 40736

Ion Ratio Lower Upper

228 100

226 29.8 24.0 36.0

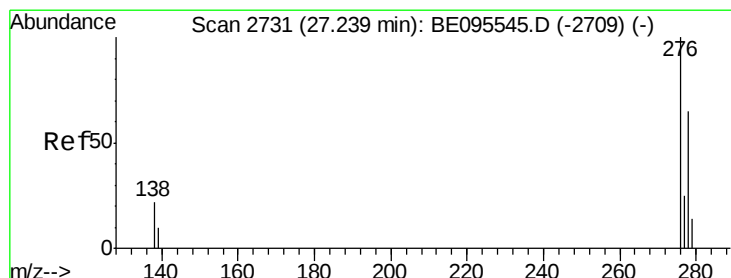
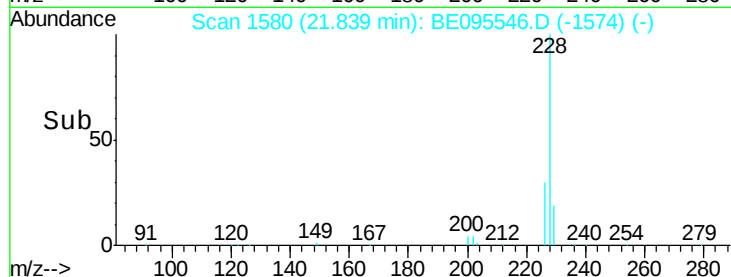
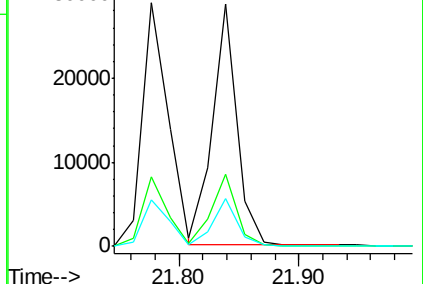
229 19.6 16.0 24.0



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.499 ng

RT: 27.24 min Scan# 2732

Delta R.T. 0.00 min

Lab File: BE095546.D

Acq: 7 Feb 2018 9:16

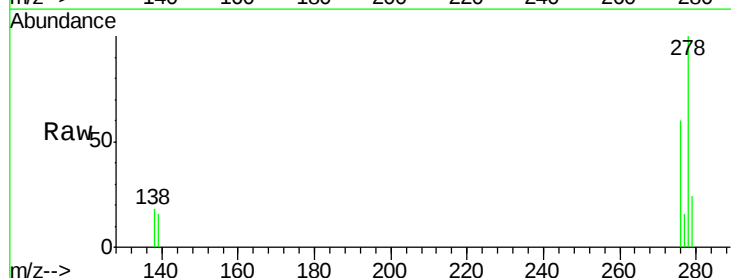
Tgt Ion:276 Resp: 31146

Ion Ratio Lower Upper

276 100

138 29.2 22.5 33.7

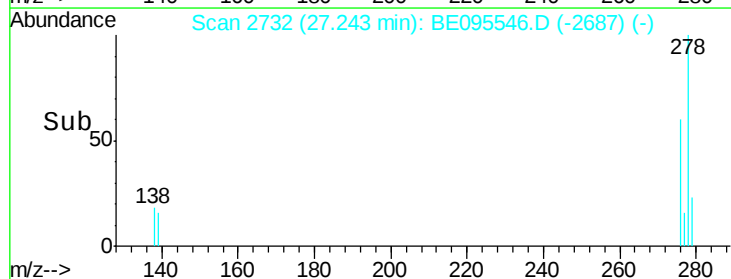
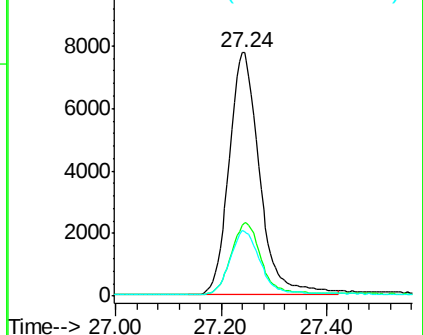
277 26.2 19.9 29.9

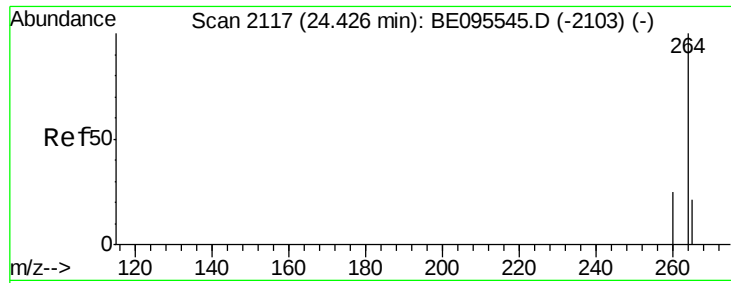


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

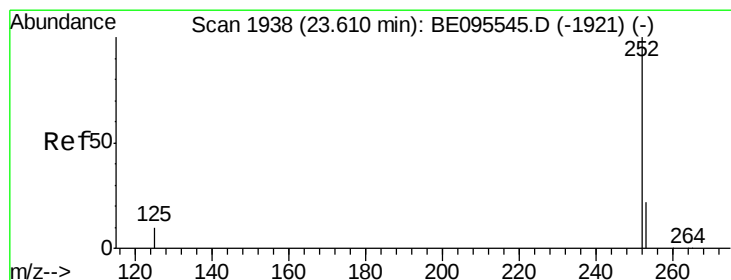
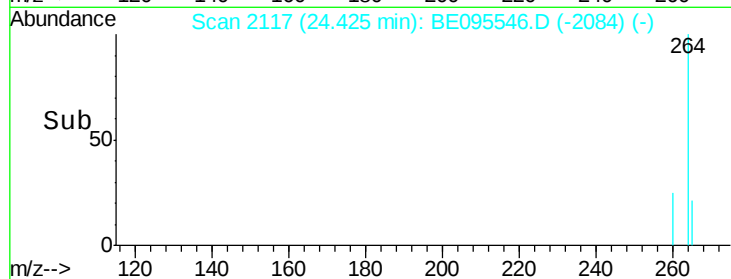
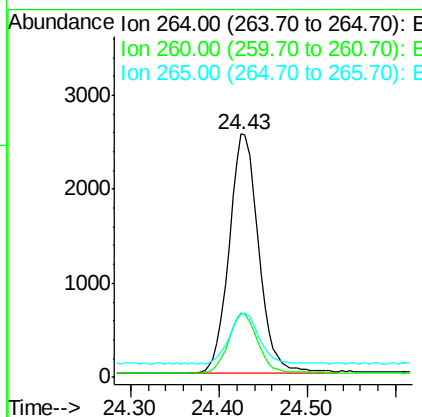
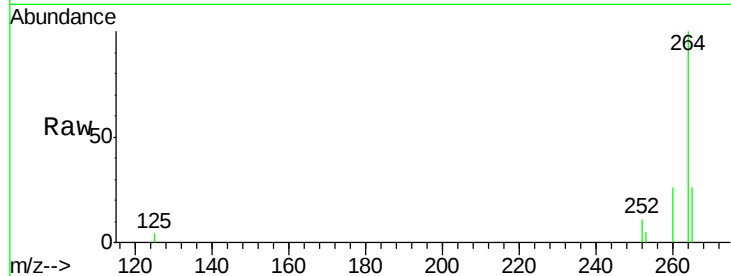




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.43 min Scan# 2117
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

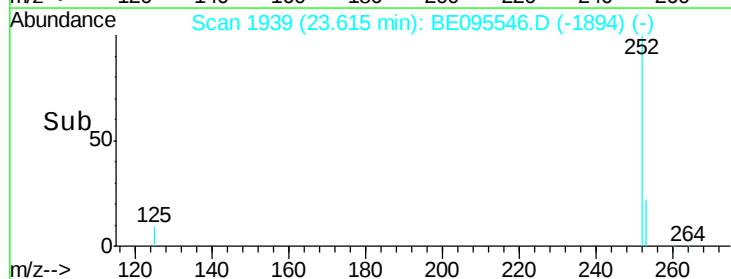
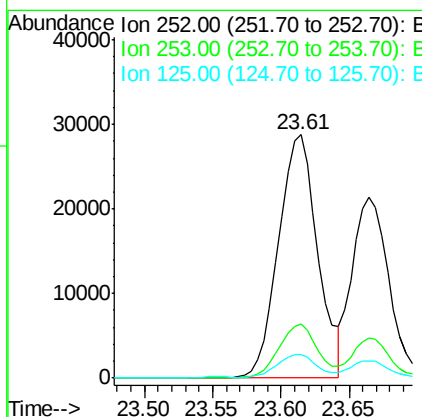
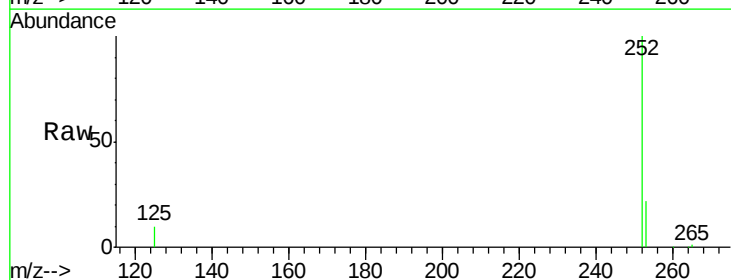
Instrument :
BNA_E
ClientSampleId :
1048

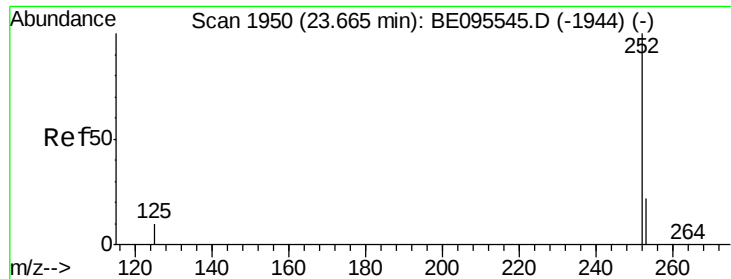
Tot Ion:264 Resp: 5857
Ion Ratio Lower Upper
264 100
260 26.2 20.5 30.7
265 26.1 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 2.856 ng
RT: 23.61 min Scan# 1939
Delta R.T. 0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Tgt Ion:252 Resp: 57047
Ion Ratio Lower Upper
252 100
253 22.0 20.0 30.0
125 9.6 16.0 24.0#

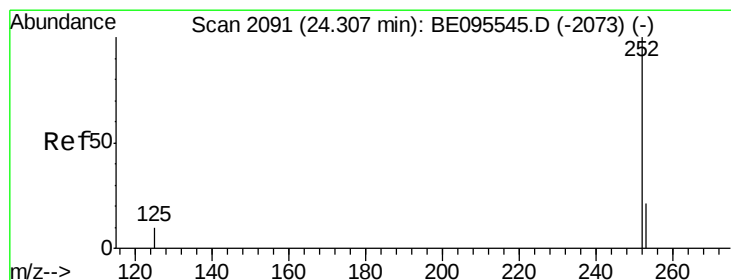
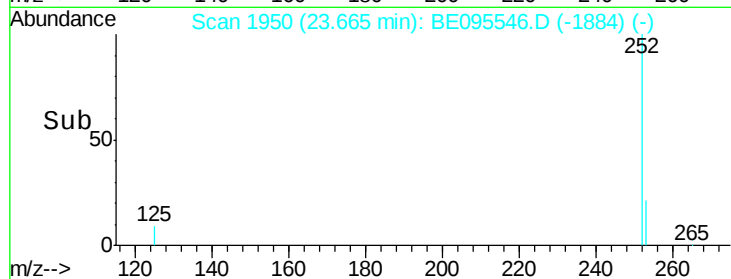
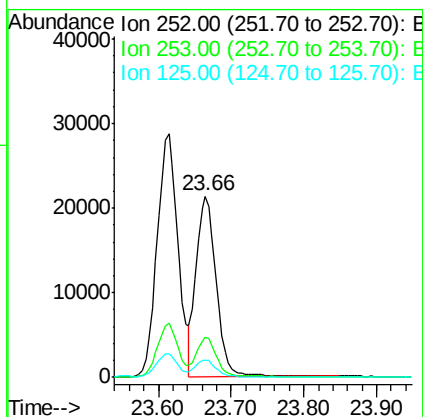
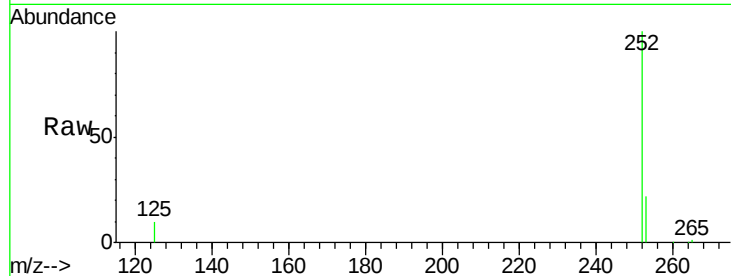




#36
Benzo(k)fluoranthene
Concen: 1.980 ng
RT: 23.66 min Scan# 1950
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

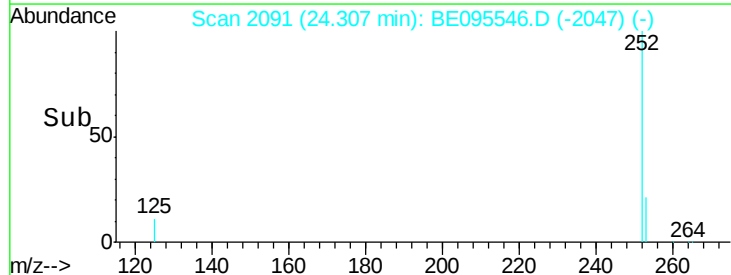
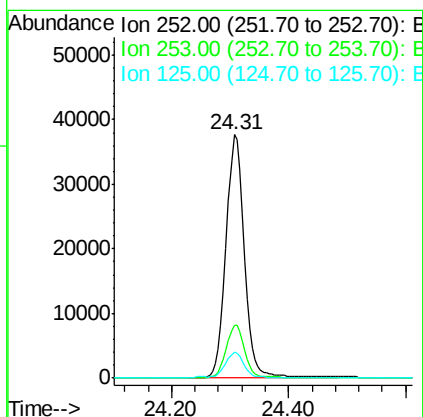
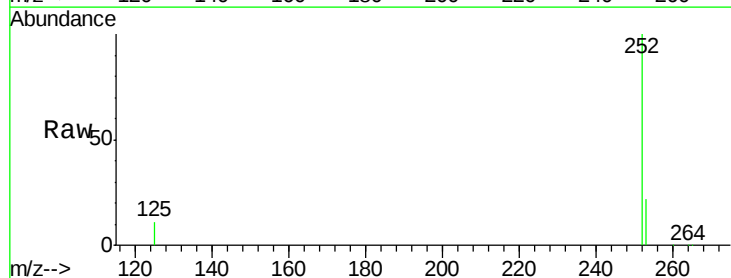
Instrument :
BNA_E
ClientSampleId :
1048

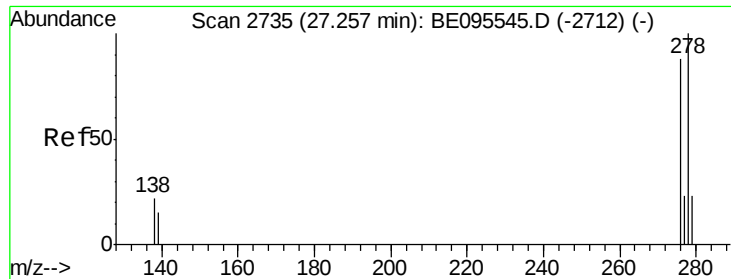
Tot Ion:252 Resp: 40643
Ion Ratio Lower Upper
252 100
253 21.8 16.0 24.0
125 9.7 8.0 12.0



#37
Benzo(a)pyrene
Concen: 4.390 ng
RT: 24.31 min Scan# 2091
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Tgt Ion:252 Resp: 81582
Ion Ratio Lower Upper
252 100
253 21.7 16.0 24.0
125 10.7 12.0 18.0#

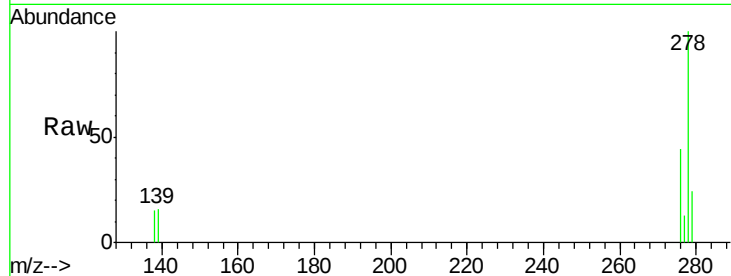




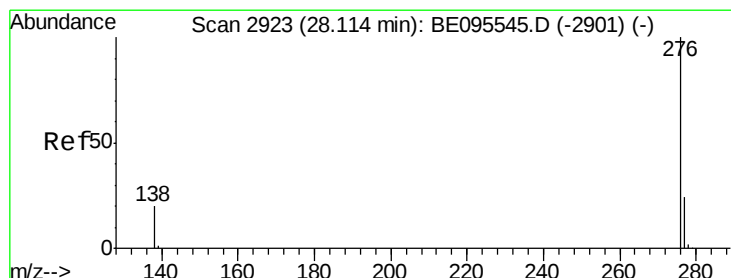
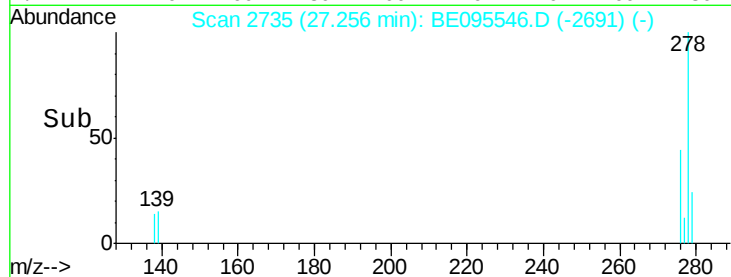
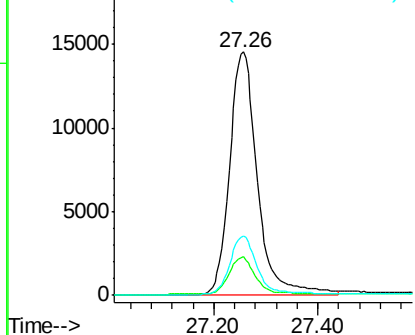
#38
Dibenzo(a,h)anthracene
Concen: 3.299 ng
RT: 27.26 min Scan# 2735
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Instrument :
BNA_E
ClientSampleId :
1048

Tot Ion:278 Resp: 53677
Ion Ratio Lower Upper
278 100
139 15.7 16.0 24.0#
279 24.1 20.0 30.0

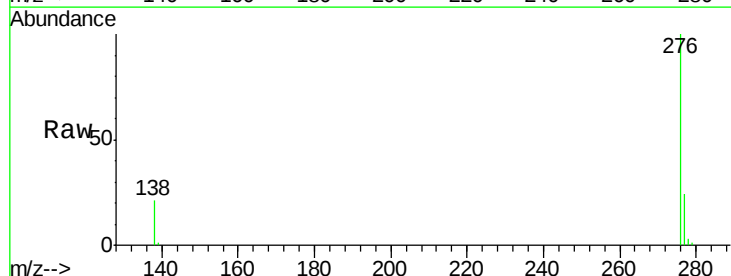


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39
Benzo(g,h,i)perylene
Concen: 3.045 ng
RT: 28.11 min Scan# 2922
Delta R.T. -0.00 min
Lab File: BE095546.D
Acq: 7 Feb 2018 9:16

Tgt Ion:276 Resp: 53193
Ion Ratio Lower Upper
276 100
277 24.0 16.0 24.0#
138 20.9 20.0 30.0



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

