

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030618\
 Data File : BE095707.D
 Acq On : 6 Mar 2018 20:59
 Operator : SJ/JU
 Sample : J1811-03 20X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 07 01:12:07 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE022318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 12:12:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.43	152	1439	0.40	ng	0.00
7) Naphthalene-d8	11.27	136	5905	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	3409	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	7708	0.40	ng	0.00
27) Chrysene-d12	21.80	240	7790	0.40	ng	0.00
34) Perylene-d12	24.42	264	7384	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	39	0.01	ng	0.00
5) Phenol-d6	7.57	99	54	0.01	ng	0.01
8) Nitrobenzene-d5	9.61	82	87	0.01	ng	0.00
11) 2-Methylnaphthalene-d10	12.80	152	110	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	11	0.12	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	178	0.01	ng	0.00
25) Fluoranthene-d10	19.69	212	812	0.01	ng	0.00
29) Terphenyl-d14	20.24	244	165	0.01	ng	-0.01

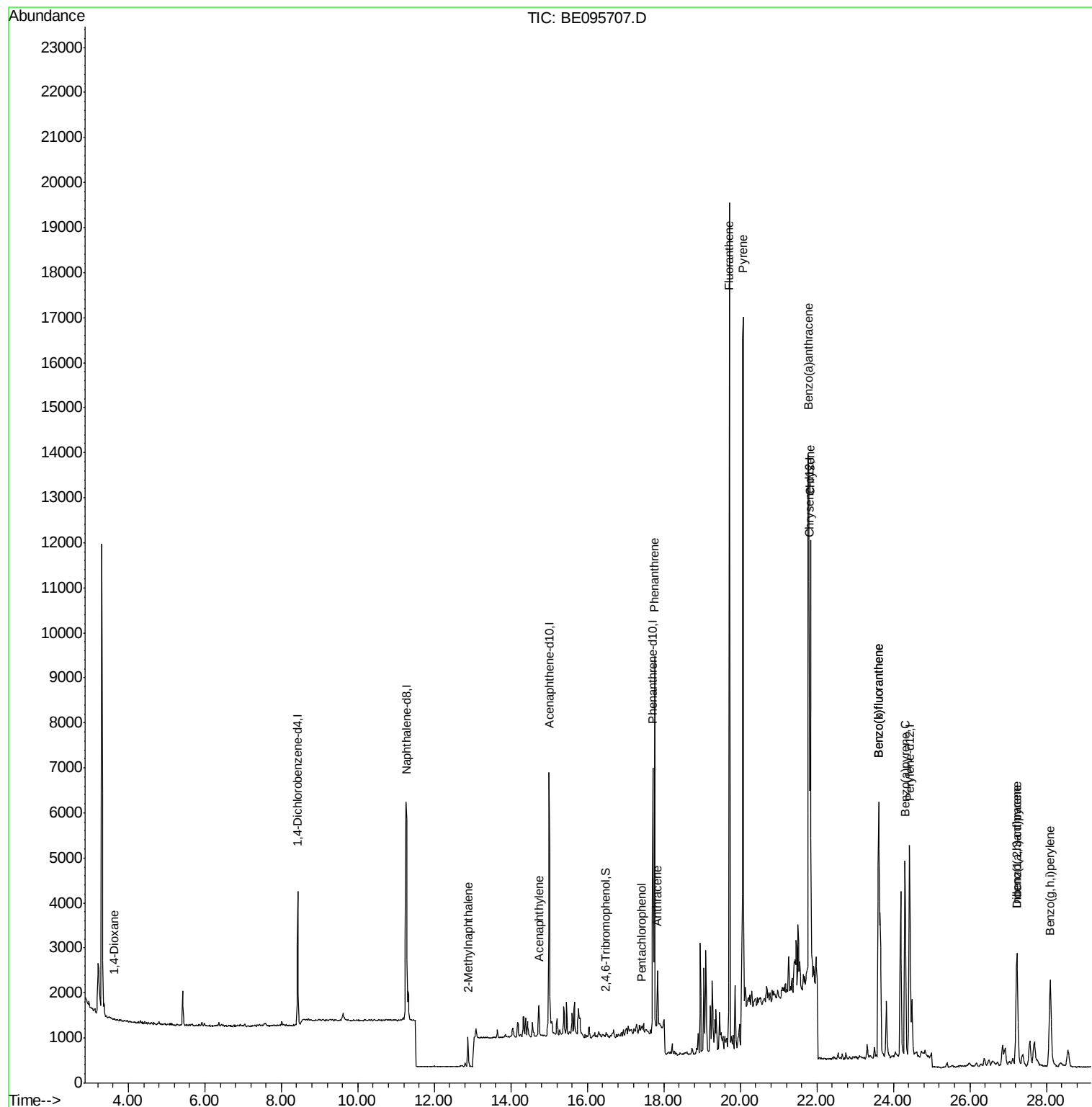
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.64	88	52	0.023	ng	# 39
12) 2-Methylnaphthalene	12.87	142	463	0.039	ng	# 92
16) Acenaphthylene	14.74	152	929	0.049	ng	97
22) Pentachlorophenol	17.40	266	9	0.184	ng	95
23) Phenanthrene	17.75	178	9217	0.383	ng	97
24) Anthracene	17.83	178	1565	0.071	ng	# 91
26) Fluoranthene	19.72	202	16912	0.570	ng	97
28) Pyrene	20.07	202	23812	0.747	ng	98
30) Benzo(a)anthracene	21.78	228	9936	0.391	ng	98
31) Chrysene	21.84	228	9693	0.384	ng	96
33) Indeno(1,2,3-cd)pyrene	27.23	276	4916	0.201	ng	# 91
35) Benzo(b)fluoranthene	23.61	252	10847	0.412	ng	# 91
36) Benzo(k)fluoranthene	23.61	252	10847	0.415	ng	# 92
37) Benzo(a)pyrene	24.31	252	7465	0.315	ng	# 92
38) Dibenzo(a,h)anthracene	27.23	278	1343	0.064	ng	# 78
39) Benzo(g,h,i)perylene	28.10	276	4972	0.220	ng	# 92

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

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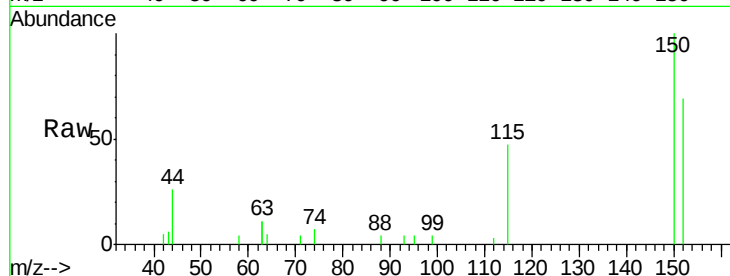


#1

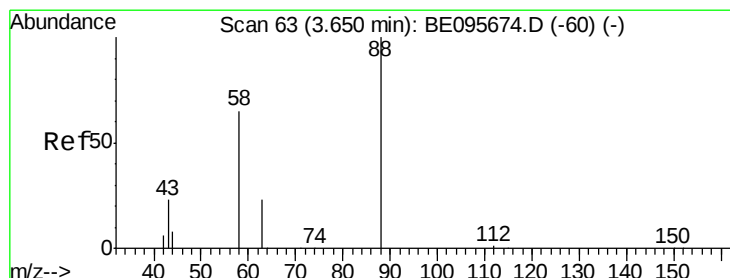
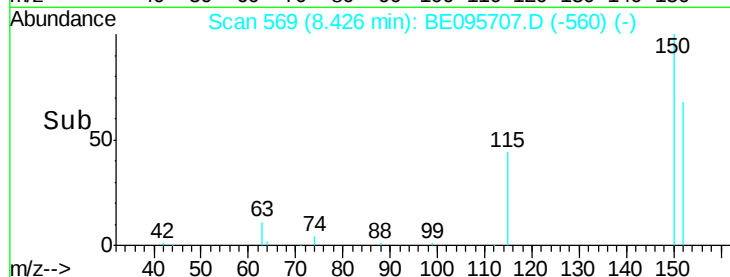
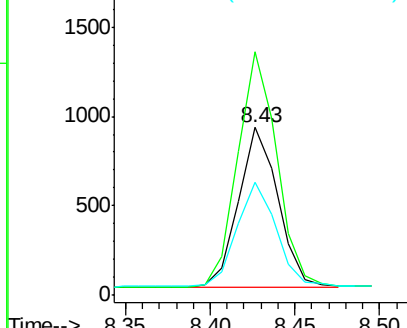
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 1439
Ion Ratio Lower Upper
152 100
150 145.1 117.2 175.8
115 67.6 57.0 85.6



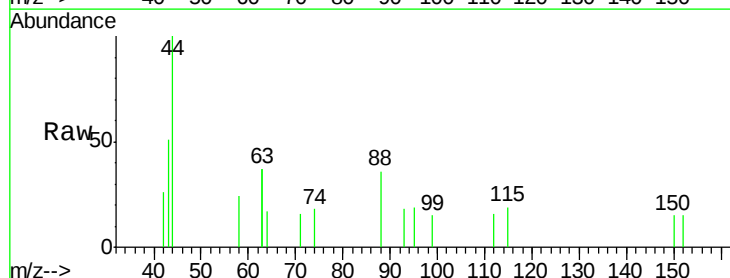
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



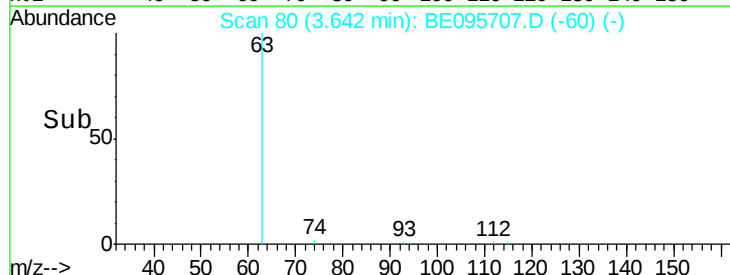
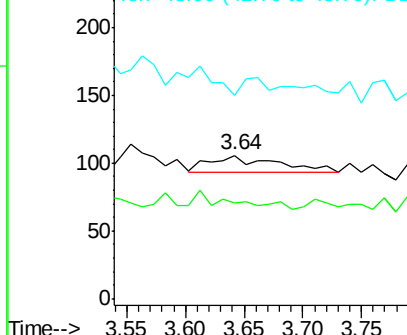
#2

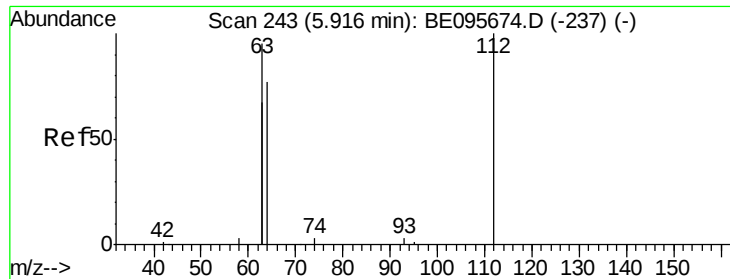
1,4-Dioxane
Concen: 0.023 ng
RT: 3.64 min Scan# 80
Delta R.T. -0.01 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

Tgt Ion: 88 Resp: 52
Ion Ratio Lower Upper
88 100
58 0.0 63.2 94.8#
43 40.4 41.2 61.8#



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





#4

2-Fluorophenol

Concen: 0.010 ng

RT: 5.92 min Scan# 313

Delta R.T. 0.01 min

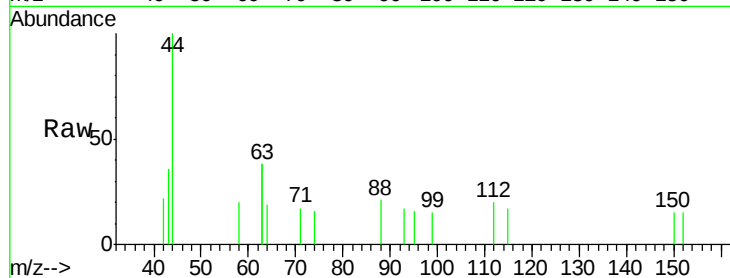
Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :



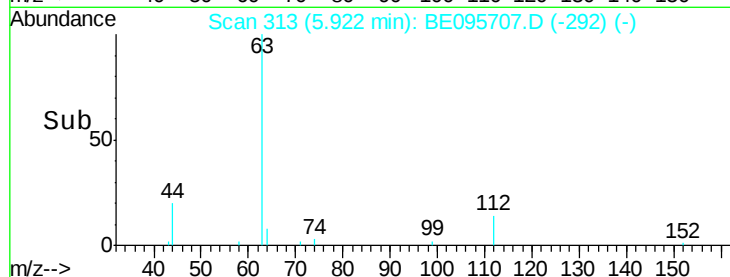
Tot Ion:112 Resp: 39

Ion Ratio Lower Upper

112 100

64 69.2 60.1 90.1

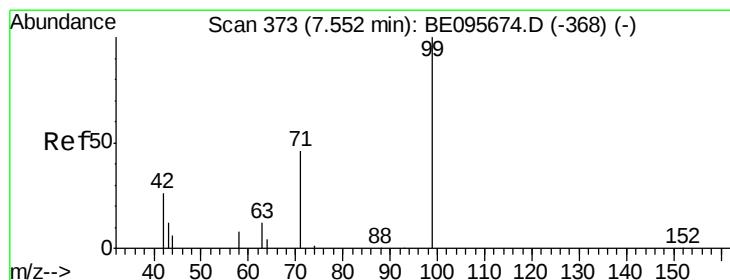
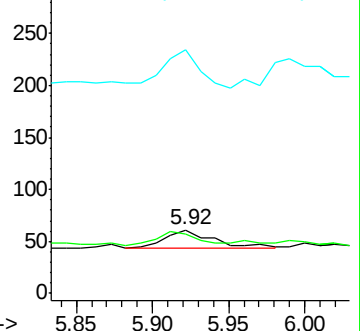
63 179.5 116.8 175.2#



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.010 ng

RT: 7.57 min Scan# 481

Delta R.T. 0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

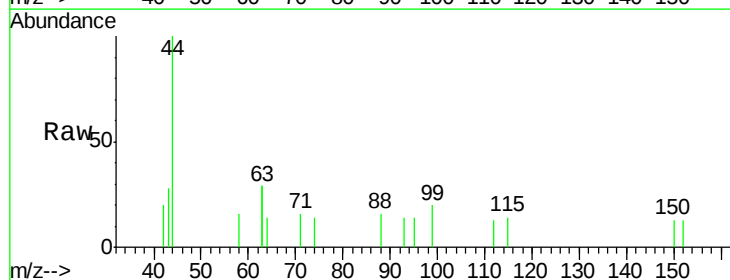
Tgt Ion: 99 Resp: 54

Ion Ratio Lower Upper

99 100

42 33.3 20.2 30.2#

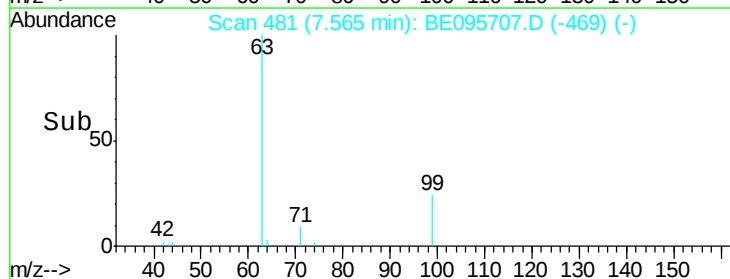
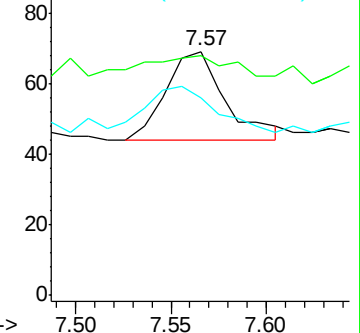
71 66.7 28.4 42.6#

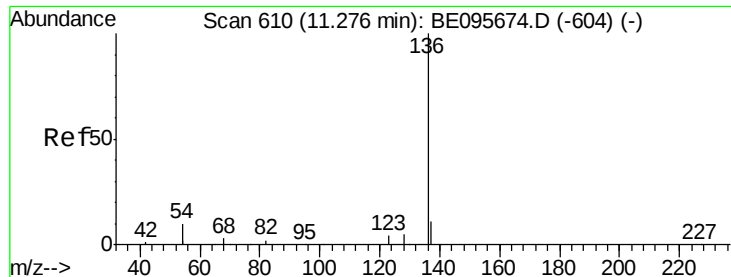


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.27 min Scan# 785

Delta R.T. -0.01 min

Lab File: BE095707.D

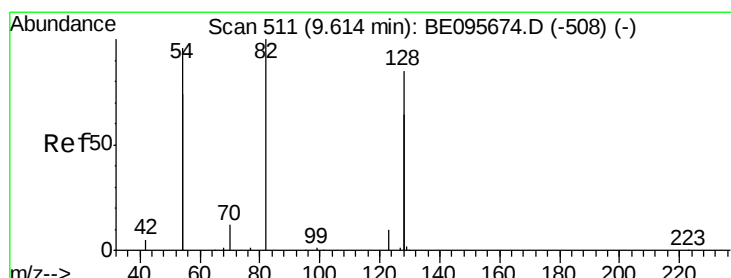
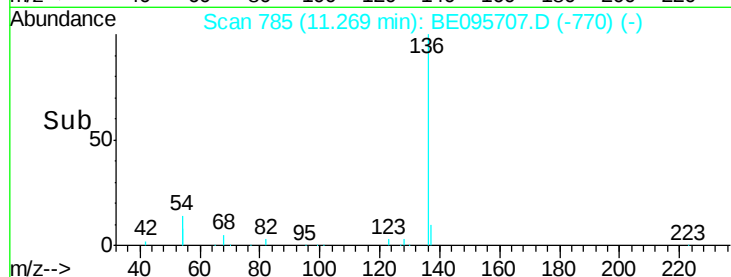
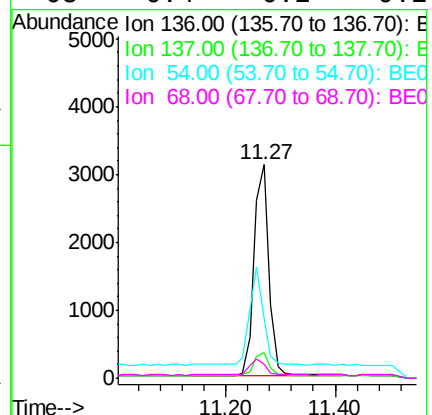
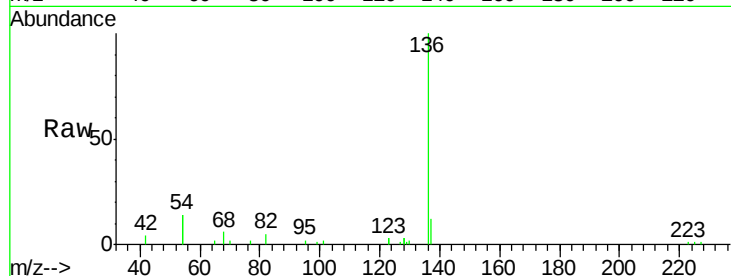
Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	136	Resp:	5905
Ion	Ratio	Lower	Upper
136	100		
137	11.8	9.5	14.3
54	28.1	29.1	43.7#
68	6.4	6.2	9.2



#8

Nitrobenzene-d5

Concen: 0.014 ng

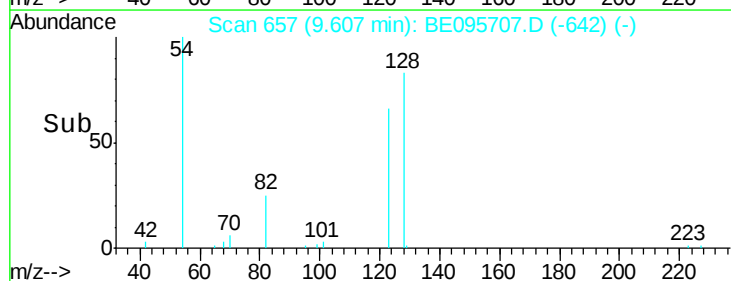
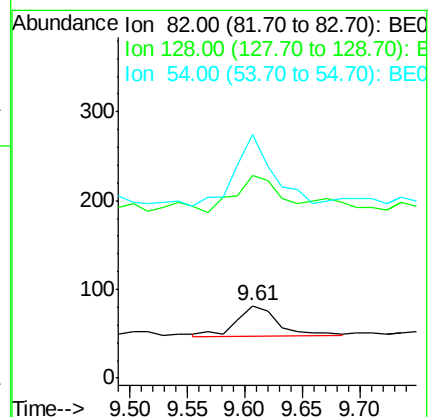
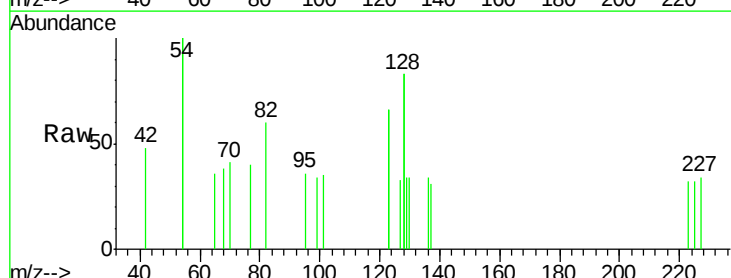
RT: 9.61 min Scan# 657

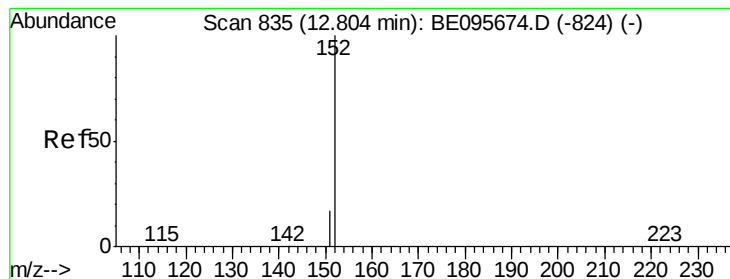
Delta R.T. -0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Tgt Ion:	82	Resp:	87
Ion	Ratio	Lower	Upper
82	100		
128	278.0	150.0	225.0#
54	334.1	154.2	231.4#





#11

2-Methylnaphthalene-d10

Concen: 0.011 ng

RT: 12.80 min Scan# 1073

Delta R.T. -0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

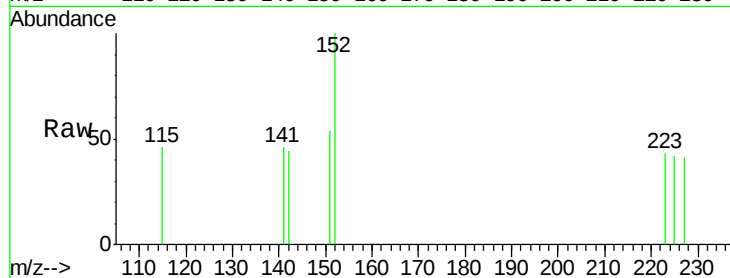
ClientSampleId :

Tot Ion:152 Resp: 110

Ion Ratio Lower Upper

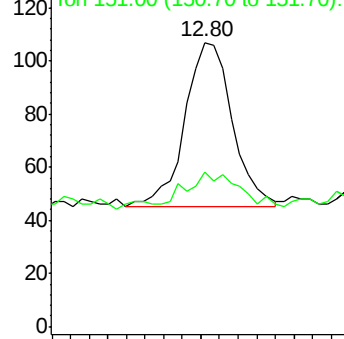
152 100

151 22.7 15.4 23.0

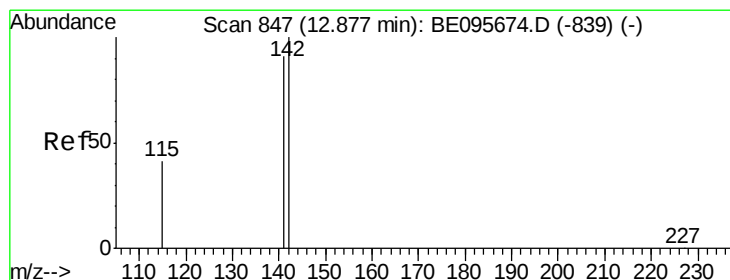
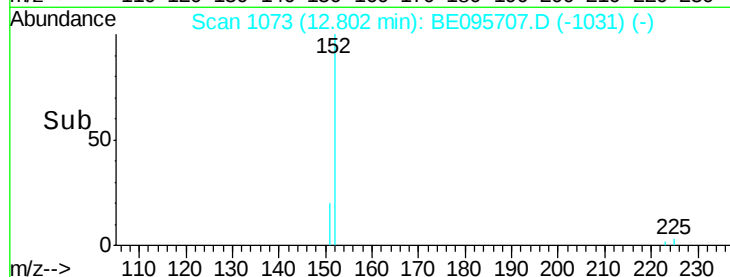


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



Time-->



#12

2-Methylnaphthalene

Concen: 0.039 ng

RT: 12.87 min Scan# 1088

Delta R.T. -0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

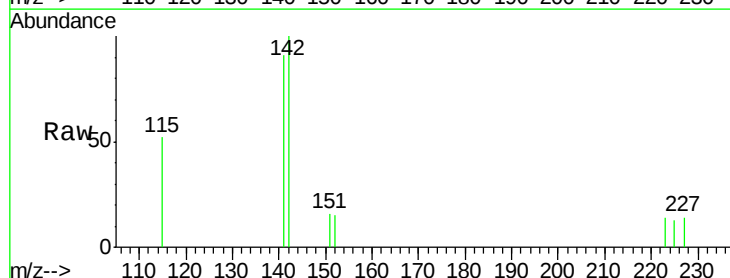
Tgt Ion:142 Resp: 463

Ion Ratio Lower Upper

142 100

141 91.1 70.4 105.6

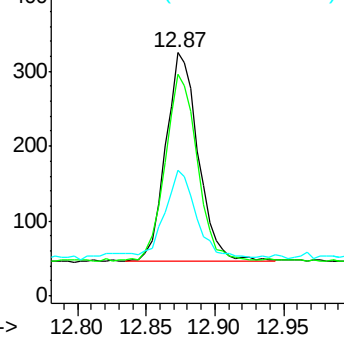
115 51.7 31.7 47.5#



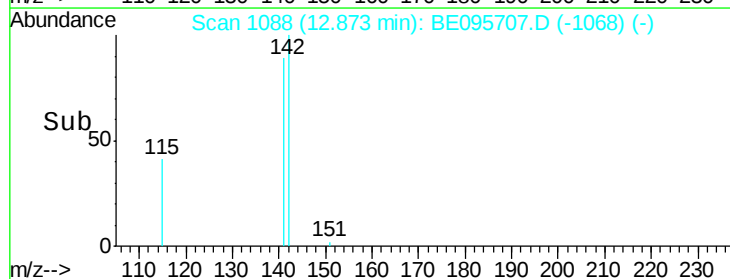
Abundance Ion 142.00 (141.70 to 142.70): E

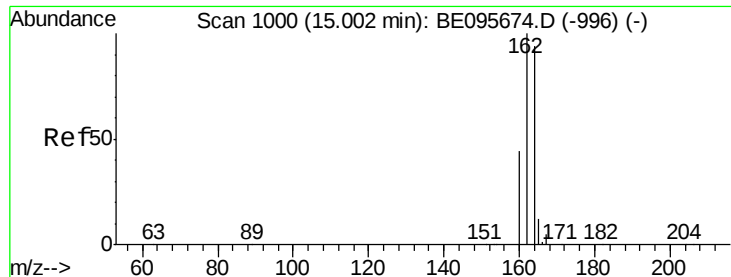
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

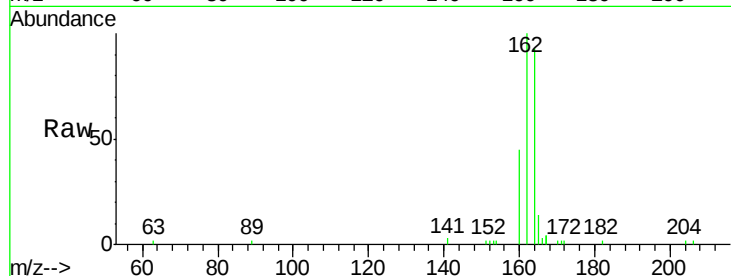
Tot Ion:164 Resp: 3409

Ion Ratio Lower Upper

164 100

162 107.0 83.1 124.7

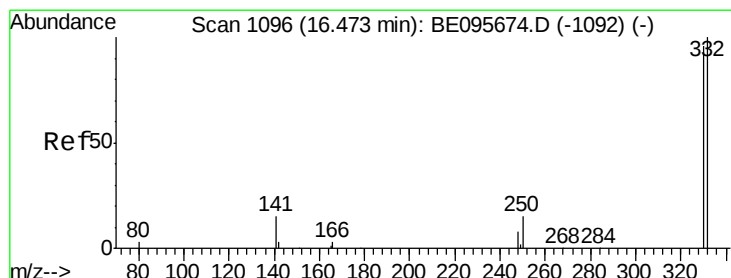
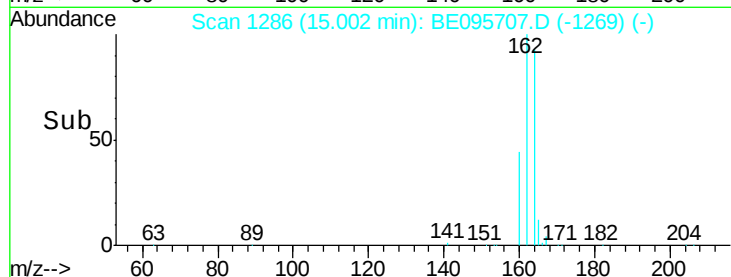
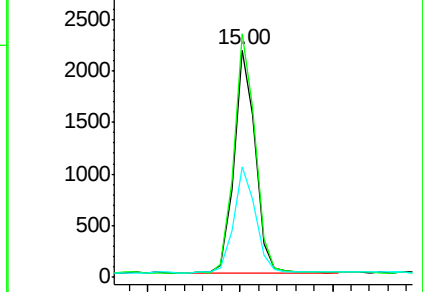
160 48.4 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.122 ng

RT: 16.47 min Scan# 1409

Delta R.T. -0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

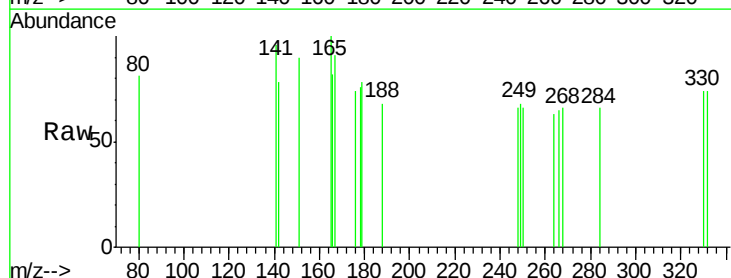
Tgt Ion:330 Resp: 11

Ion Ratio Lower Upper

330 100

332 136.4 152.7 229.1#

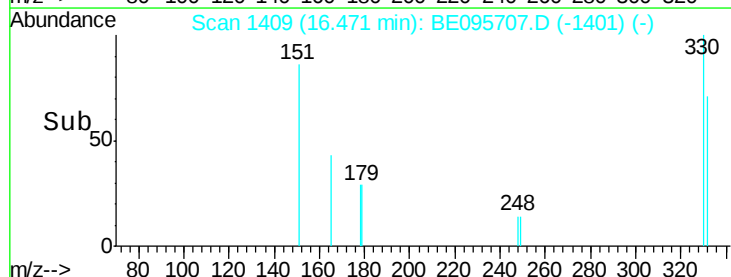
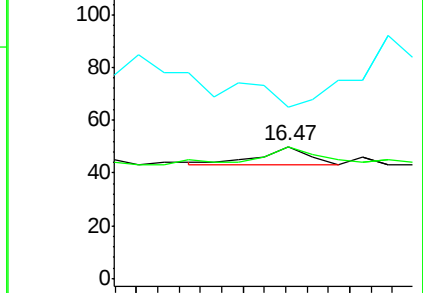
141 0.0 33.7 50.5#

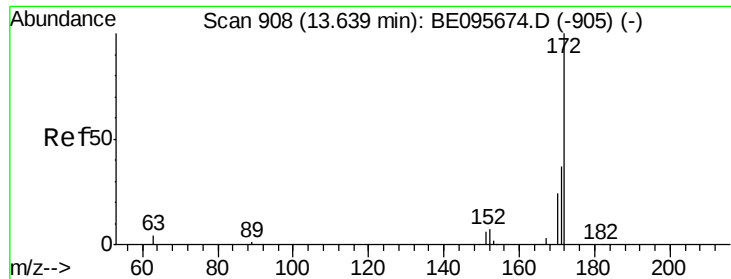


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

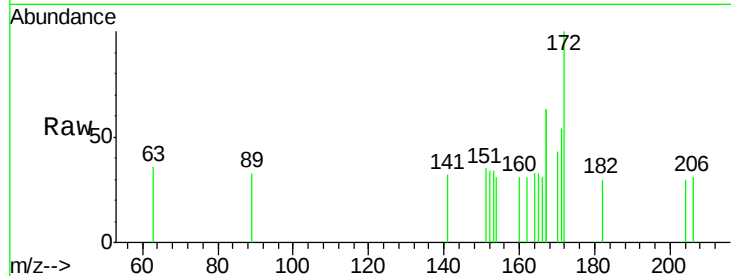




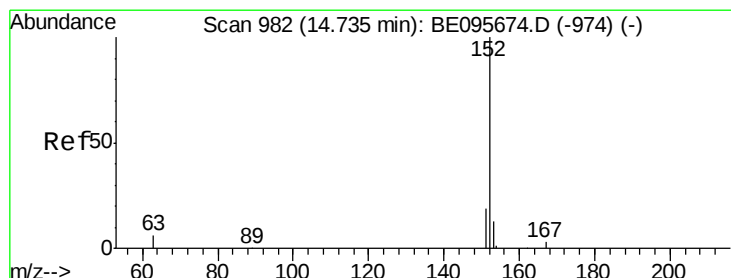
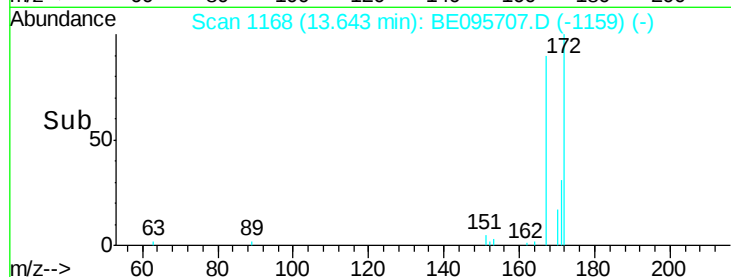
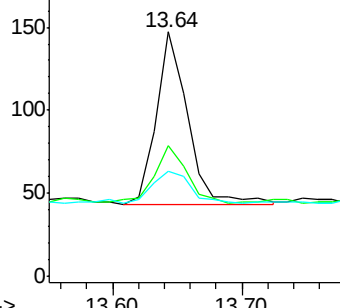
#15
2-Fluorobiphenyl
Concen: 0.012 ng
RT: 13.64 min Scan# 1168
Delta R.T. 0.00 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 178
Ion Ratio Lower Upper
172 100
171 53.7 29.9 44.9#
170 42.9 21.8 32.8#

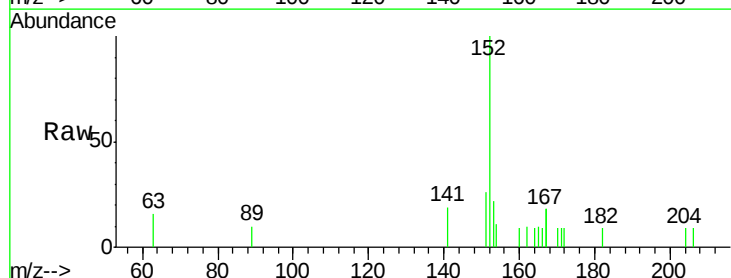


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

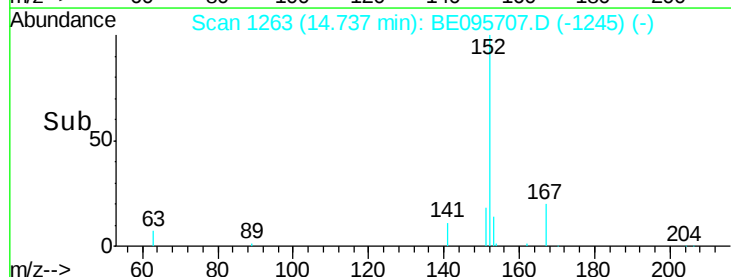
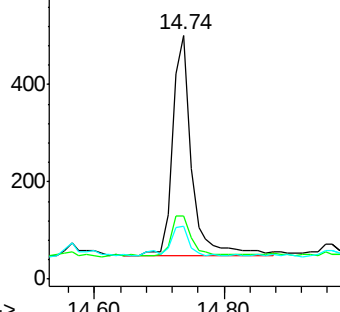


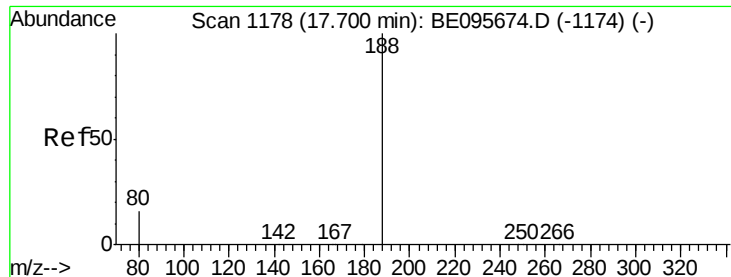
#16
Acenaphthylene
Concen: 0.049 ng
RT: 14.74 min Scan# 1263
Delta R.T. 0.00 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

Tgt Ion:152 Resp: 929
Ion Ratio Lower Upper
152 100
151 18.6 15.7 23.5
153 14.9 10.5 15.7



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1515

Delta R.T. 0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

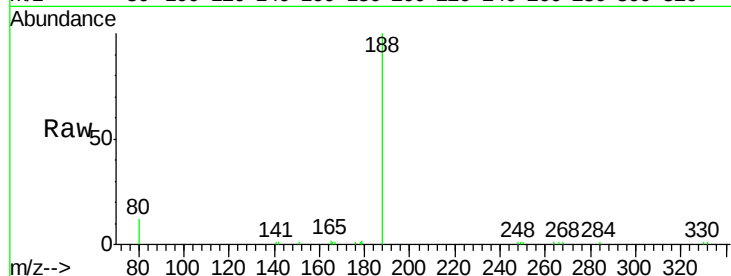
Tot Ion:188 Resp: 7708

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

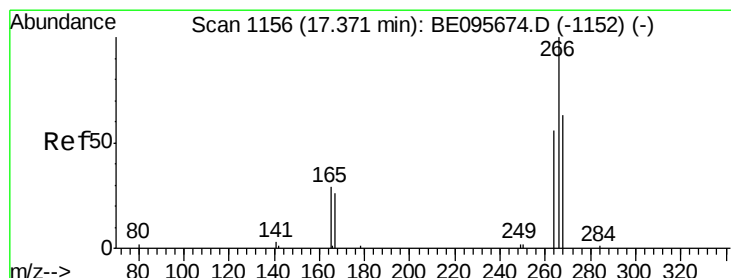
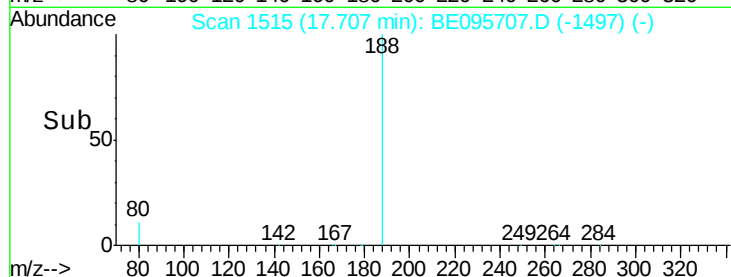
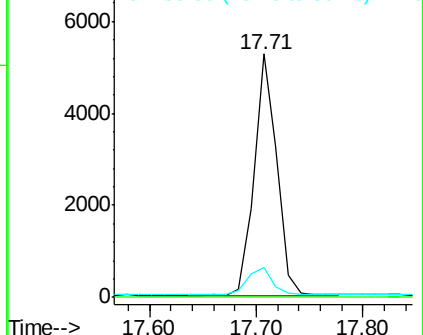
80 12.4 3.6 5.4#



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



#22

Pentachlorophenol

Concen: 0.184 ng

RT: 17.40 min Scan# 1489

Delta R.T. 0.03 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

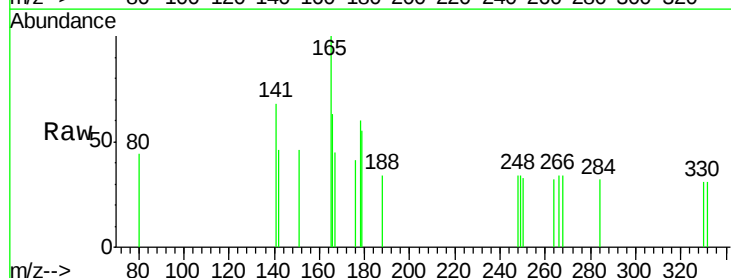
Tgt Ion:266 Resp: 9

Ion Ratio Lower Upper

266 100

264 93.8 72.5 108.7

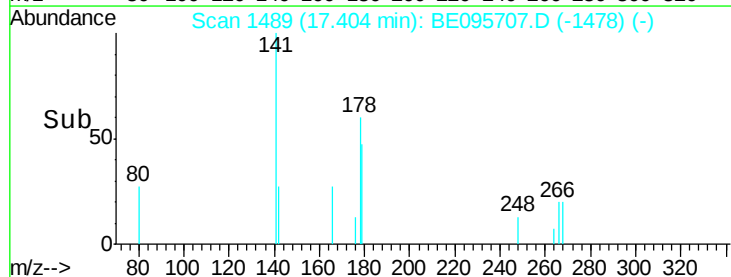
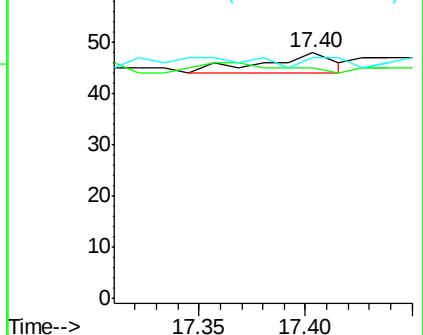
268 97.9 73.8 110.6

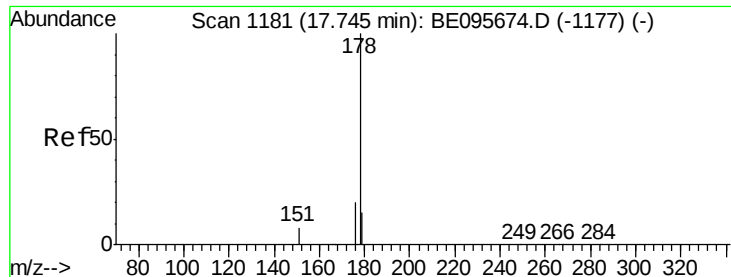


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.383 ng

RT: 17.75 min Scan# 1519

Delta R.T. 0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

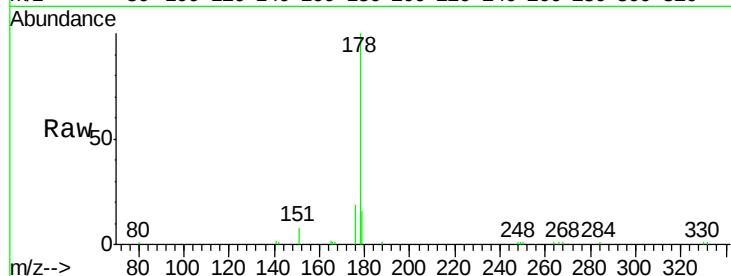
Tot Ion:178 Resp: 9217

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

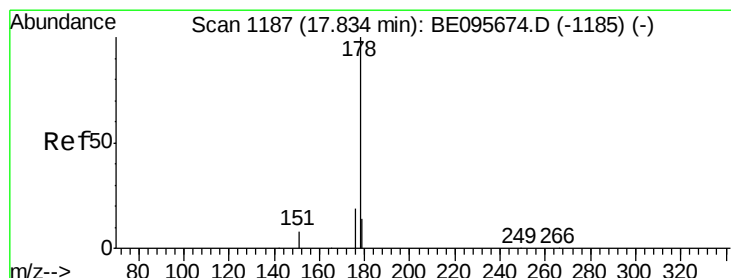
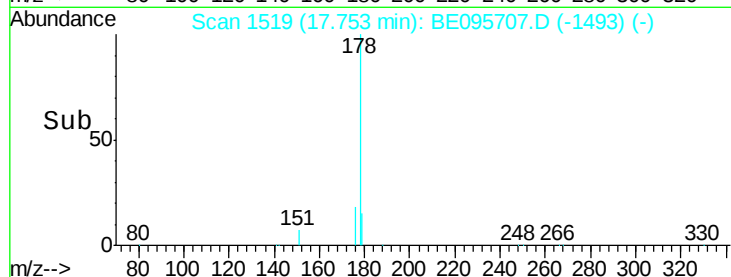
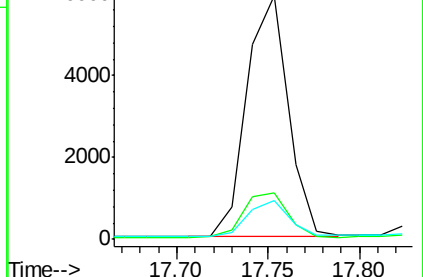
179 16.8 11.8 17.6



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: 0.071 ng

RT: 17.83 min Scan# 1526

Delta R.T. 0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

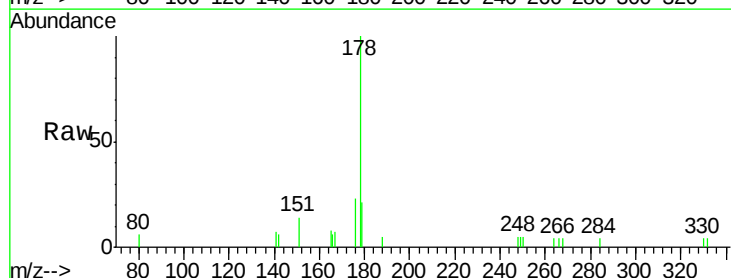
Tgt Ion:178 Resp: 1565

Ion Ratio Lower Upper

178 100

176 19.6 12.8 19.2#

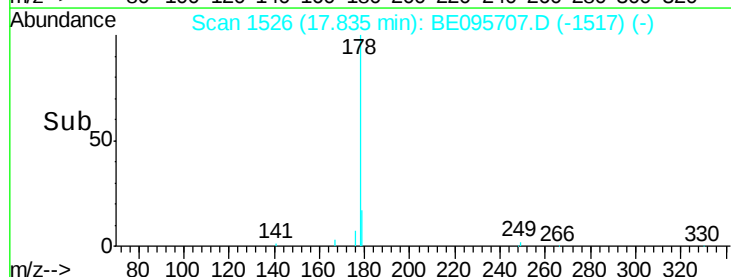
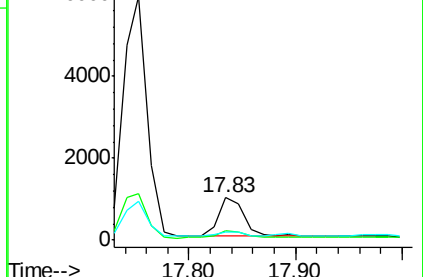
179 12.2 13.0 19.6#

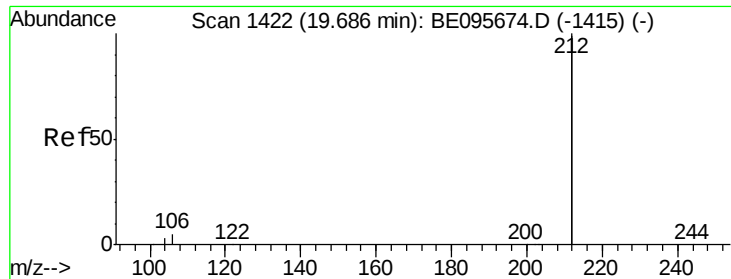


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.008 ng

RT: 19.69 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

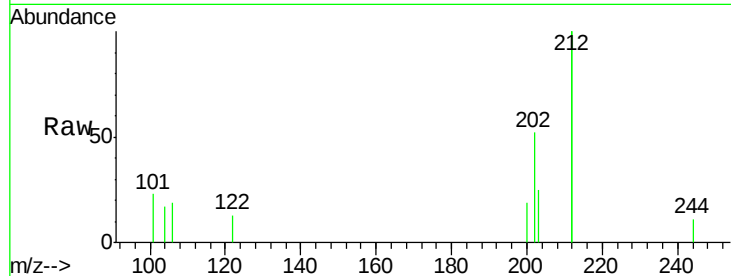
Tot Ion:212 Resp: 812

Ion Ratio Lower Upper

212 100

106 3.6 2.8 4.2

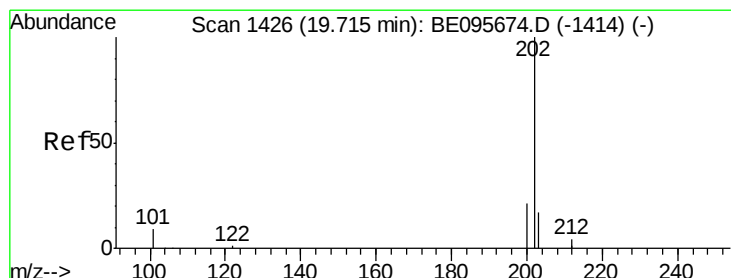
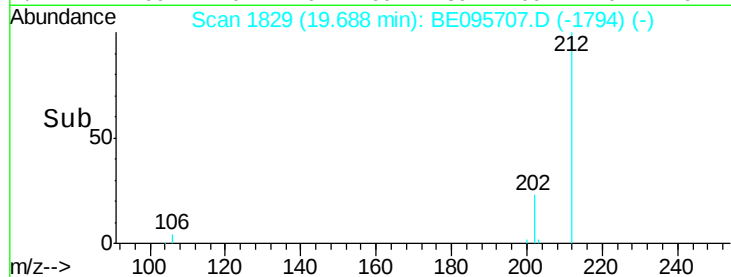
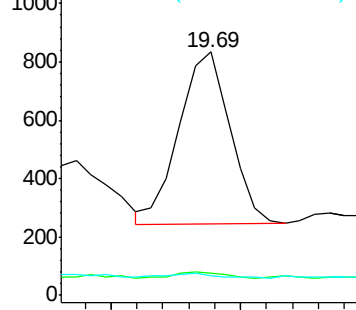
104 3.9 1.6 2.4#



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: 0.570 ng

RT: 19.72 min Scan# 1834

Delta R.T. 0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

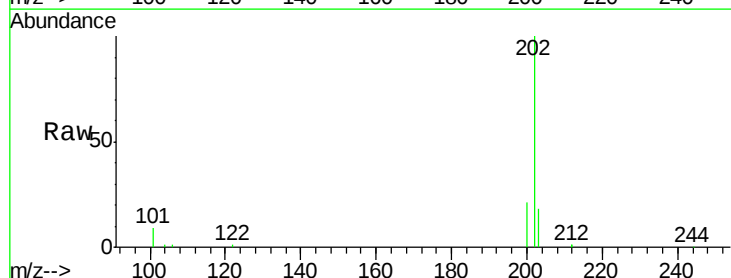
Tgt Ion:202 Resp: 16912

Ion Ratio Lower Upper

202 100

101 10.2 9.8 14.8

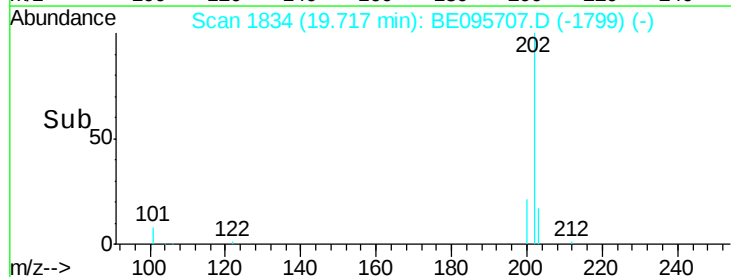
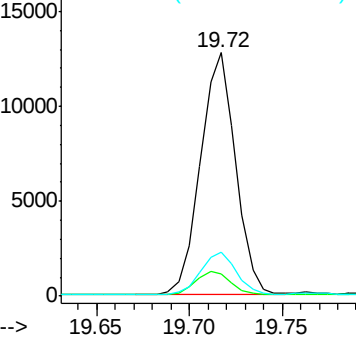
203 17.6 13.7 20.5

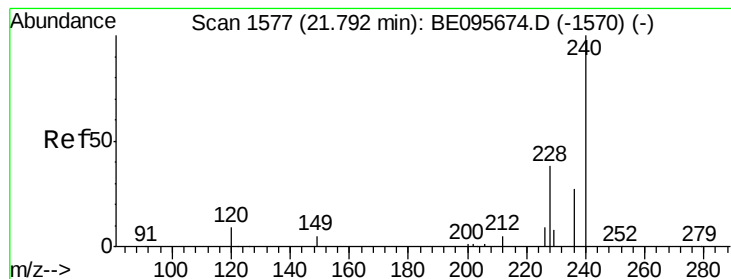


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.80 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

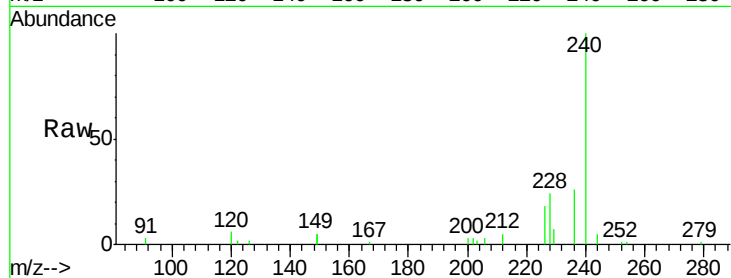
Tot Ion:240 Resp: 7790

Ion Ratio Lower Upper

240 100

120 6.1 5.5 8.3

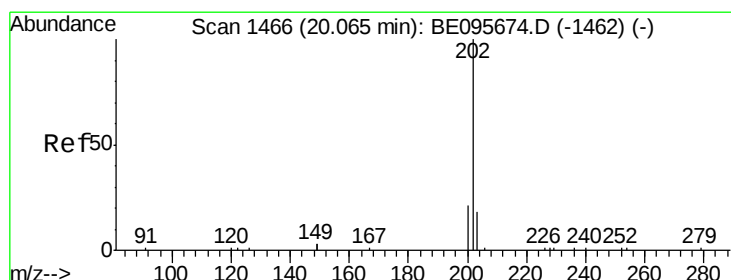
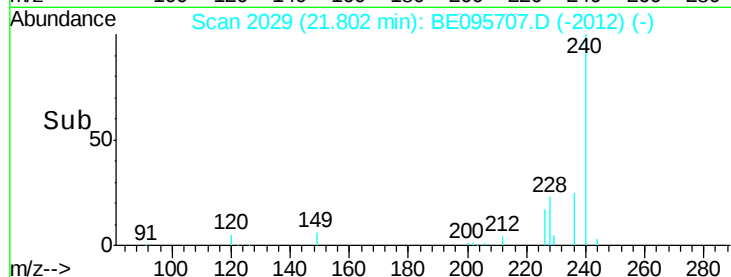
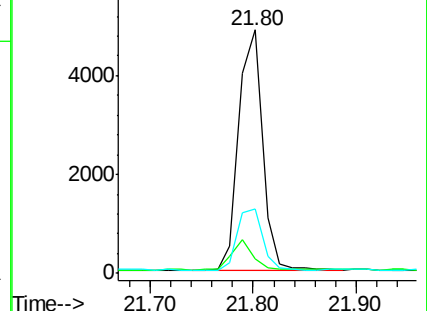
236 26.2 20.7 31.1



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: 0.747 ng

RT: 20.07 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

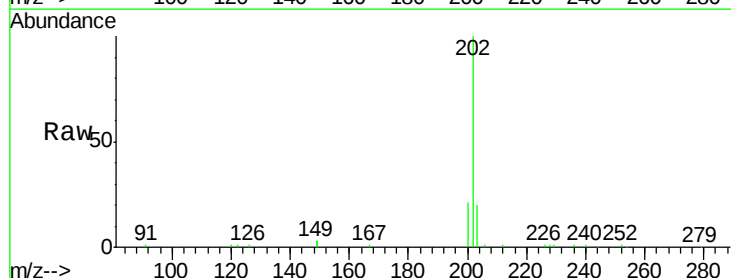
Tgt Ion:202 Resp: 23812

Ion Ratio Lower Upper

202 100

200 21.5 16.6 25.0

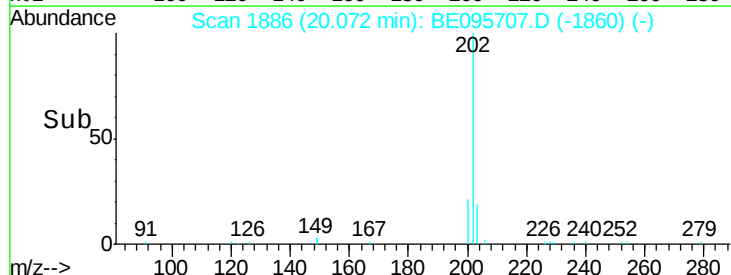
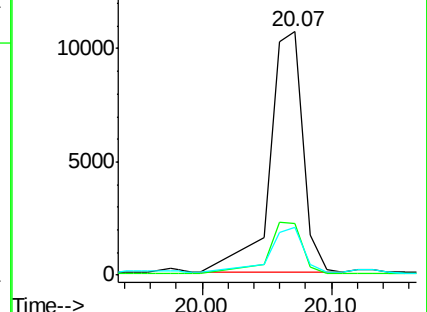
203 18.8 13.8 20.8

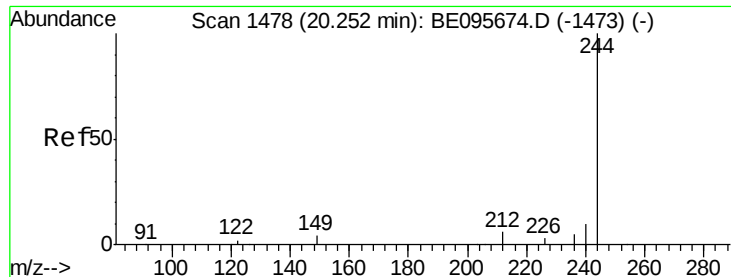


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.011 ng

RT: 20.24 min Scan# 1900

Delta R.T. -0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampled :

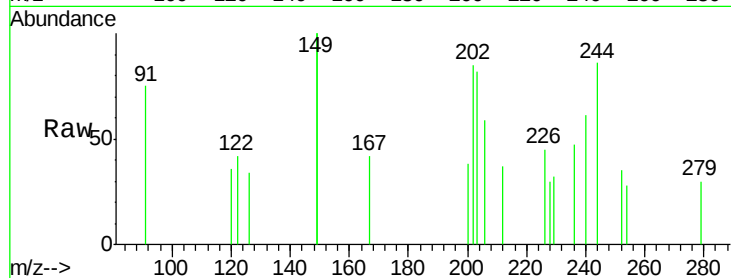
Tot Ion:244 Resp: 165

Ion Ratio Lower Upper

244 100

212 42.7 25.4 38.0#

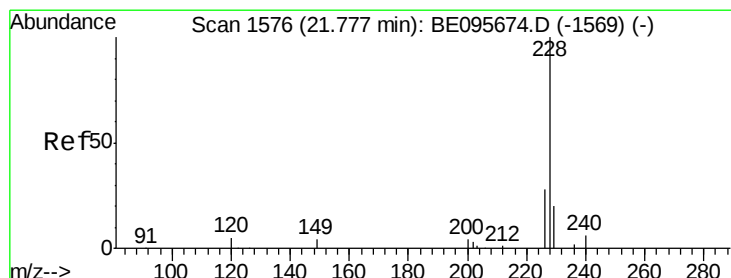
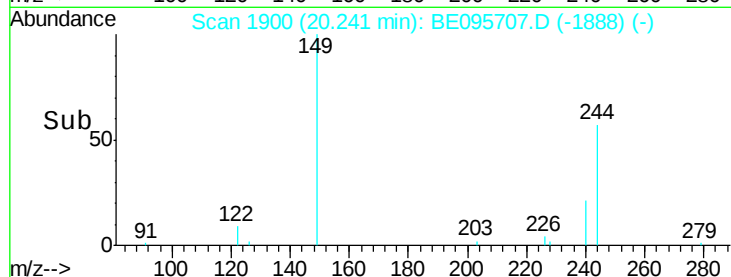
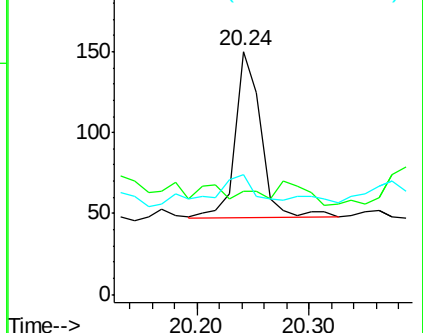
122 49.3 8.1 12.1#



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: 0.391 ng

RT: 21.78 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

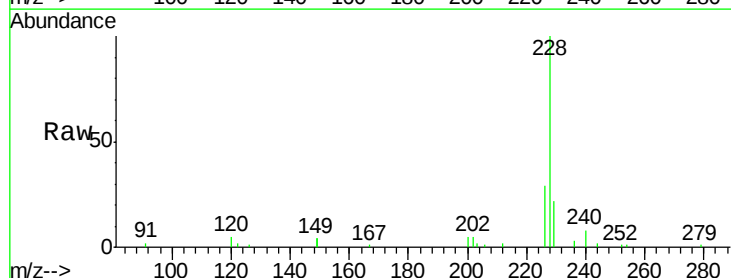
Tgt Ion:228 Resp: 9936

Ion Ratio Lower Upper

228 100

226 29.1 24.0 36.0

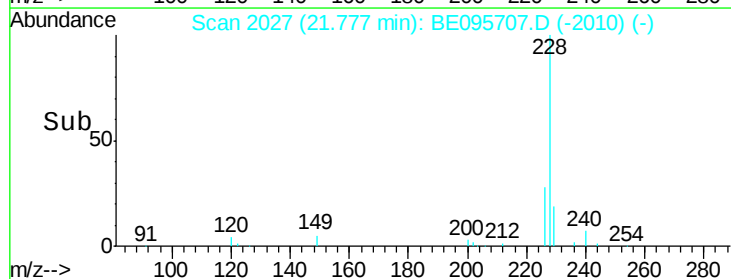
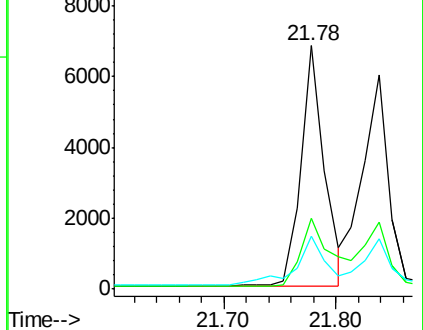
229 21.6 16.0 24.0

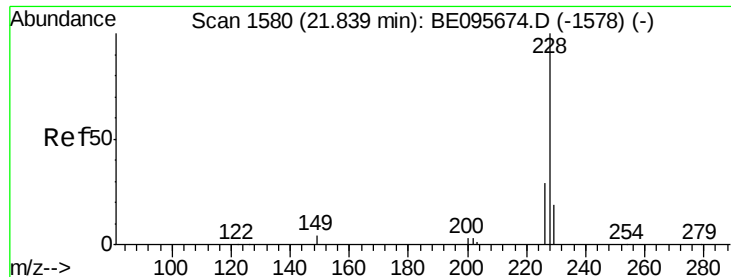


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.384 ng

RT: 21.84 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

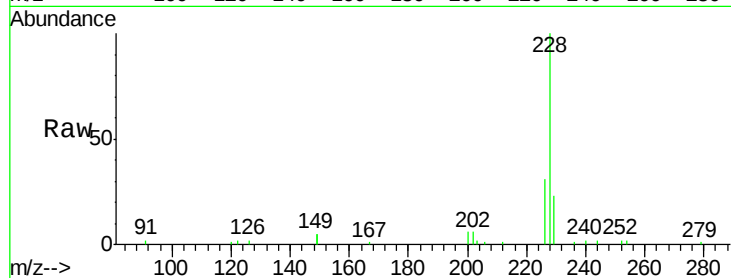
Tot Ion:228 Resp: 9693

Ion Ratio Lower Upper

228 100

226 31.4 24.0 36.0

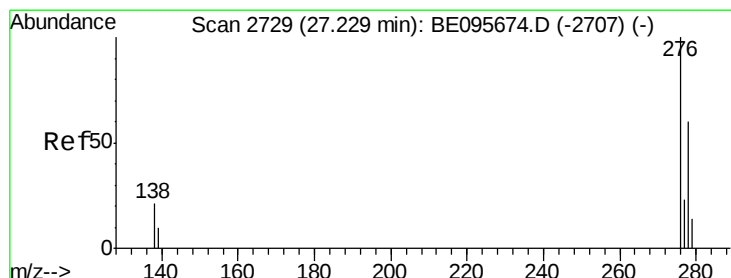
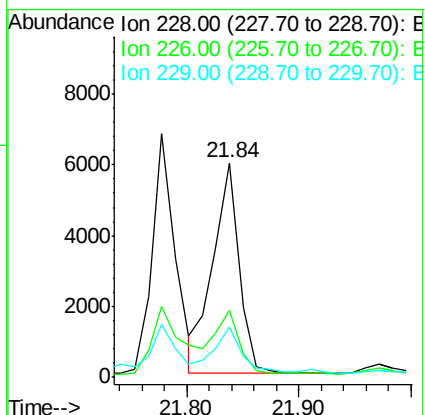
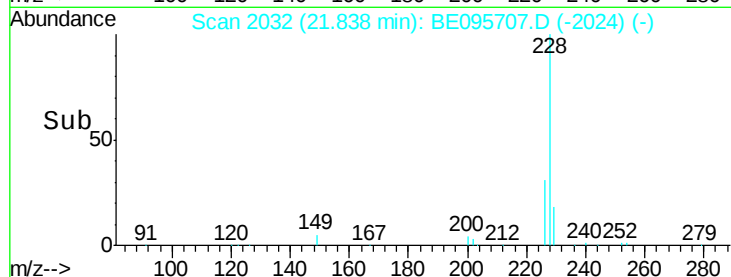
229 23.3 16.0 24.0



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: 0.201 ng

RT: 27.23 min Scan# 3500

Delta R.T. -0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

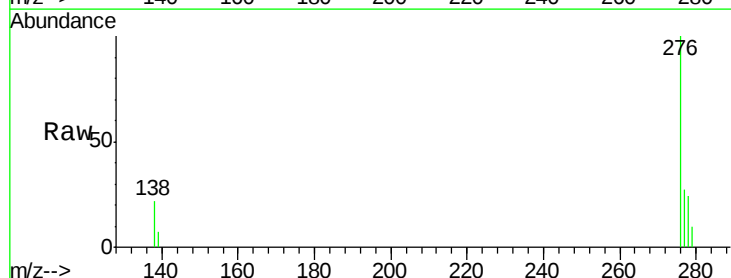
Tgt Ion:276 Resp: 4916

Ion Ratio Lower Upper

276 100

138 19.6 22.5 33.7#

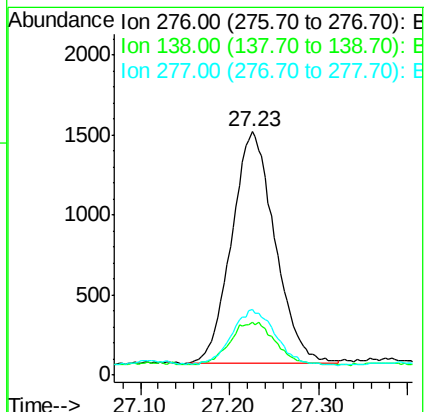
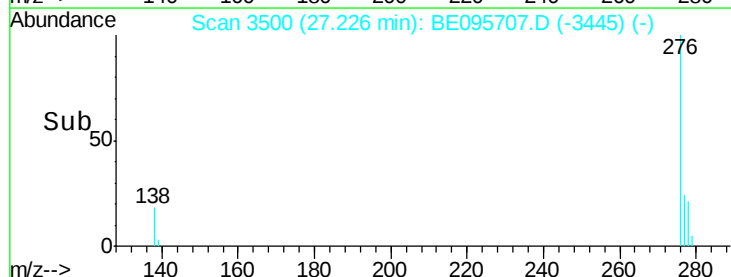
277 24.6 19.9 29.9

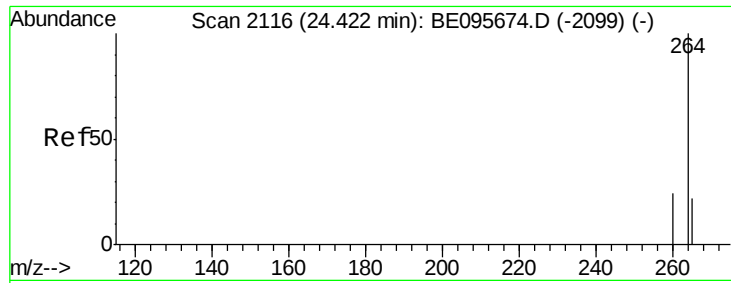


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

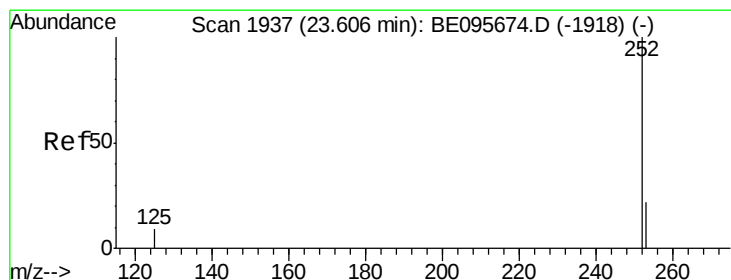
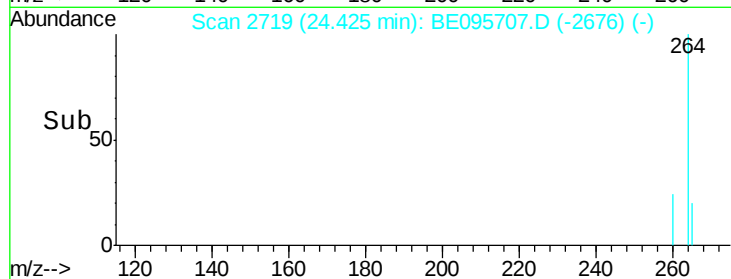
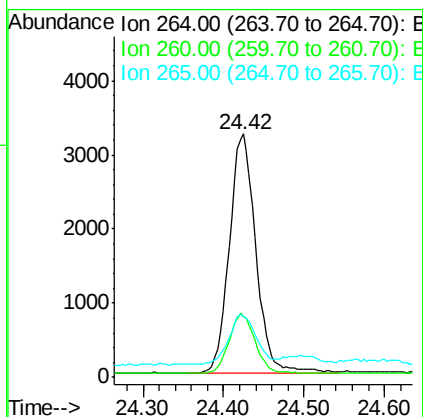
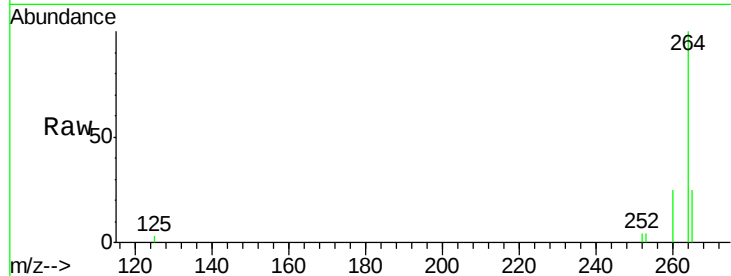




#34
Pervlene-d12
Concen: 0.400 ng
RT: 24.42 min Scan# 2719
Delta R.T. 0.00 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

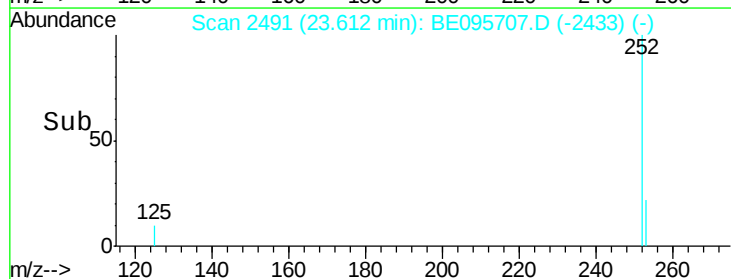
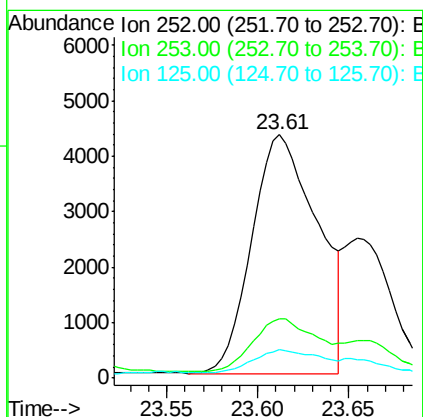
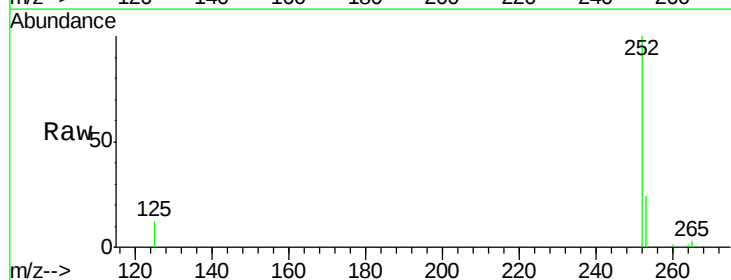
Instrument :
BNA_E
ClientSampleId :

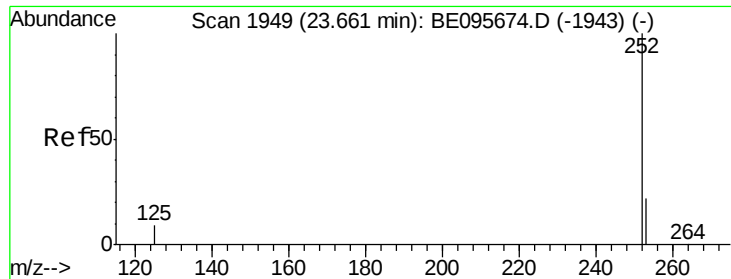
Tot Ion:264 Resp: 7384
Ion Ratio Lower Upper
264 100
260 24.8 20.5 30.7
265 24.6 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.412 ng
RT: 23.61 min Scan# 2491
Delta R.T. 0.01 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

Tgt Ion:252 Resp: 10847
Ion Ratio Lower Upper
252 100
253 24.4 20.0 30.0
125 11.7 16.0 24.0#

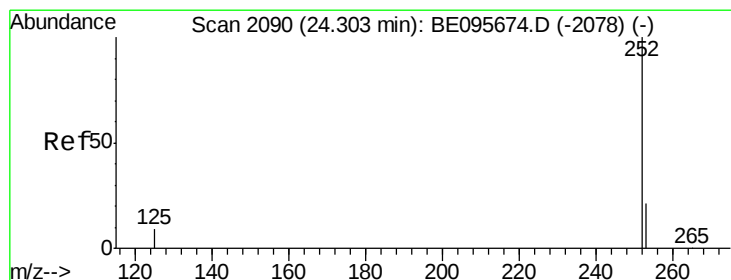
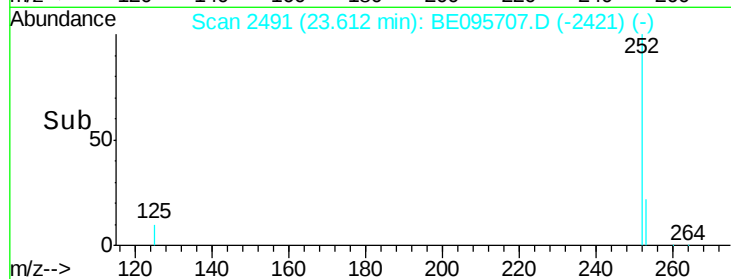
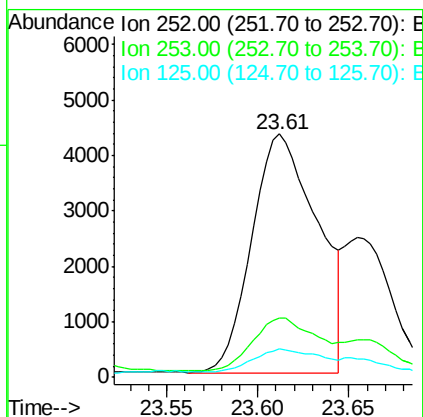
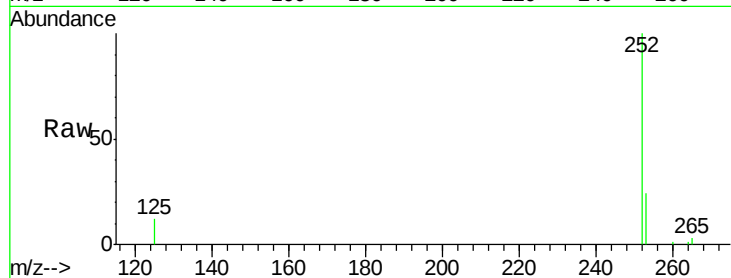




#36
Benzo(k)fluoranthene
Concen: 0.415 ng
RT: 23.61 min Scan# 2491
Delta R.T. -0.05 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

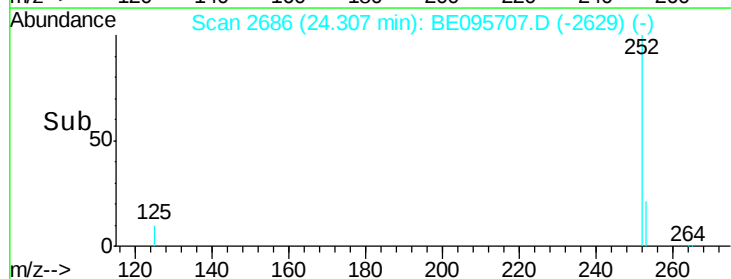
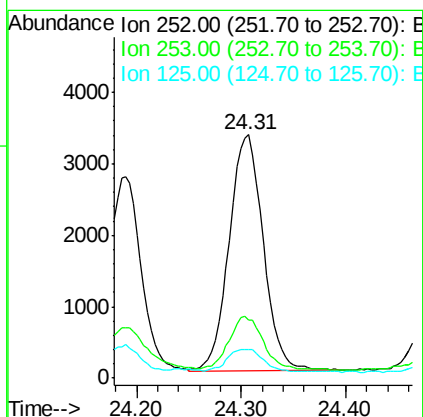
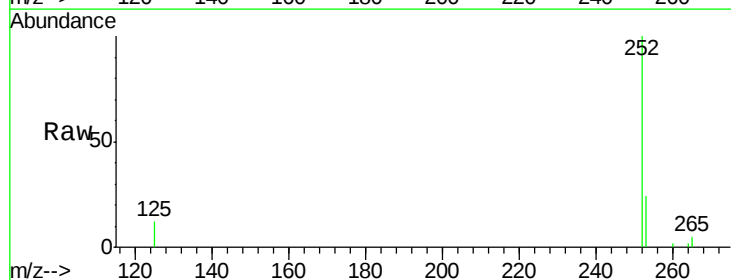
Instrument :
BNA_E
ClientSampleId :

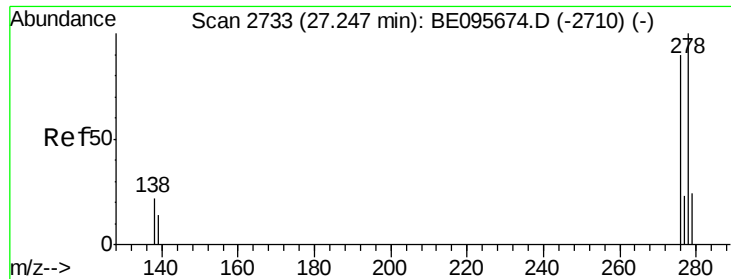
Tot Ion:252 Resp: 10847
Ion Ratio Lower Upper
252 100
253 24.4 16.0 24.0#
125 11.7 8.0 12.0



#37
Benzo(a)pyrene
Concen: 0.315 ng
RT: 24.31 min Scan# 2686
Delta R.T. 0.00 min
Lab File: BE095707.D
Acq: 6 Mar 2018 20:59

Tgt Ion:252 Resp: 7465
Ion Ratio Lower Upper
252 100
253 24.1 16.0 24.0#
125 12.0 12.0 18.0#





#38

Dibenzo(a,h)anthracene

Concen: 0.064 ng

RT: 27.23 min Scan# 3502

Delta R.T. -0.01 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

Instrument :

BNA_E

ClientSampleId :

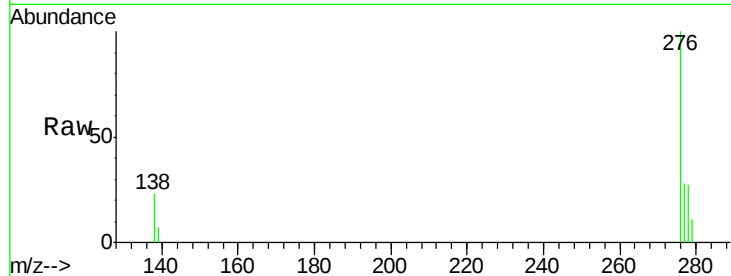
Tot Ion:278 Resp: 1343

Ion Ratio Lower Upper

278 100

139 26.0 16.0 24.0#

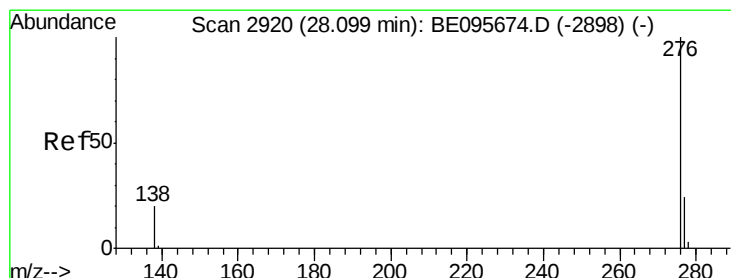
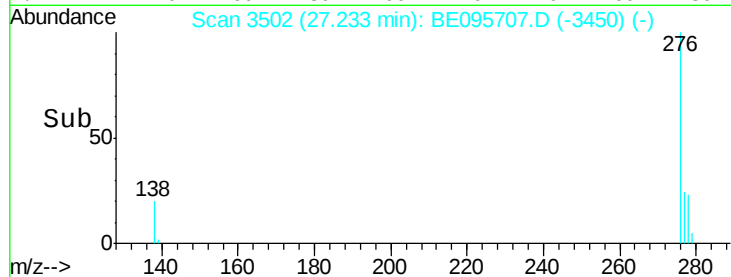
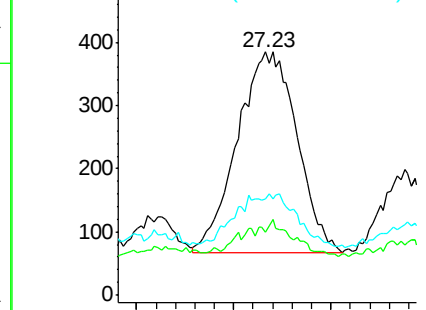
279 39.7 20.0 30.0#



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: 0.220 ng

RT: 28.10 min Scan# 3745

Delta R.T. 0.00 min

Lab File: BE095707.D

Acq: 6 Mar 2018 20:59

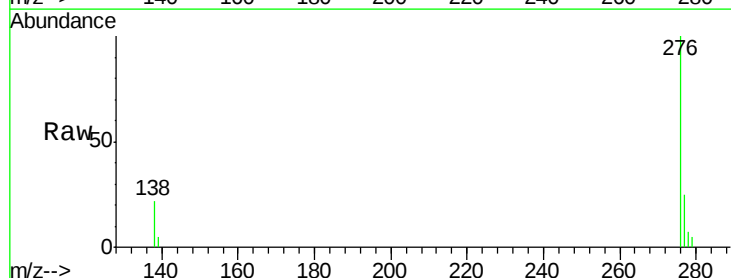
Tgt Ion:276 Resp: 4972

Ion Ratio Lower Upper

276 100

277 25.4 16.0 24.0#

138 22.4 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

