

Data Path : Z:\HPCHEM1\BNA E\Data\BE022318\
 Data File : BE095678.D
 Acq On : 23 Feb 2018 12:08
 Operator : SJ/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 23 12:42:59 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	8.433	152	1260	0.40	ng	0.00
7) Naphthalene-d8	11.259	136	5017	0.40	ng	-0.02
13) Acenaphthene-d10	15.002	164	2860	0.40	ng	0.00
19) Phenanthrene-d10	17.700	188	6329	0.40	ng	0.00
27) Chrysene-d12	21.792	240	6576	0.40	ng	0.00
34) Perylene-d12	24.422	264	5754	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.915	112	1311	0.39	ng	0.00
5) Phenol-d6	7.552	99	1825	0.40	ng	0.00
8) Nitrobenzene-d5	9.598	82	1910	0.37	ng	-0.02
11) 2-Methylnaphthalene-d10	12.805	152	3385	0.40	ng	0.00
14) 2,4,6-Tribromophenol	16.473	330	385	0.40	ng	0.00
15) 2-Fluorobiphenyl	13.639	172	5196	0.41	ng	0.00
25) Fluoranthene-d10	19.686	212	32106	0.39	ng	0.00
29) Terphenyl-d14	20.251	244	5180	0.40	ng	0.00

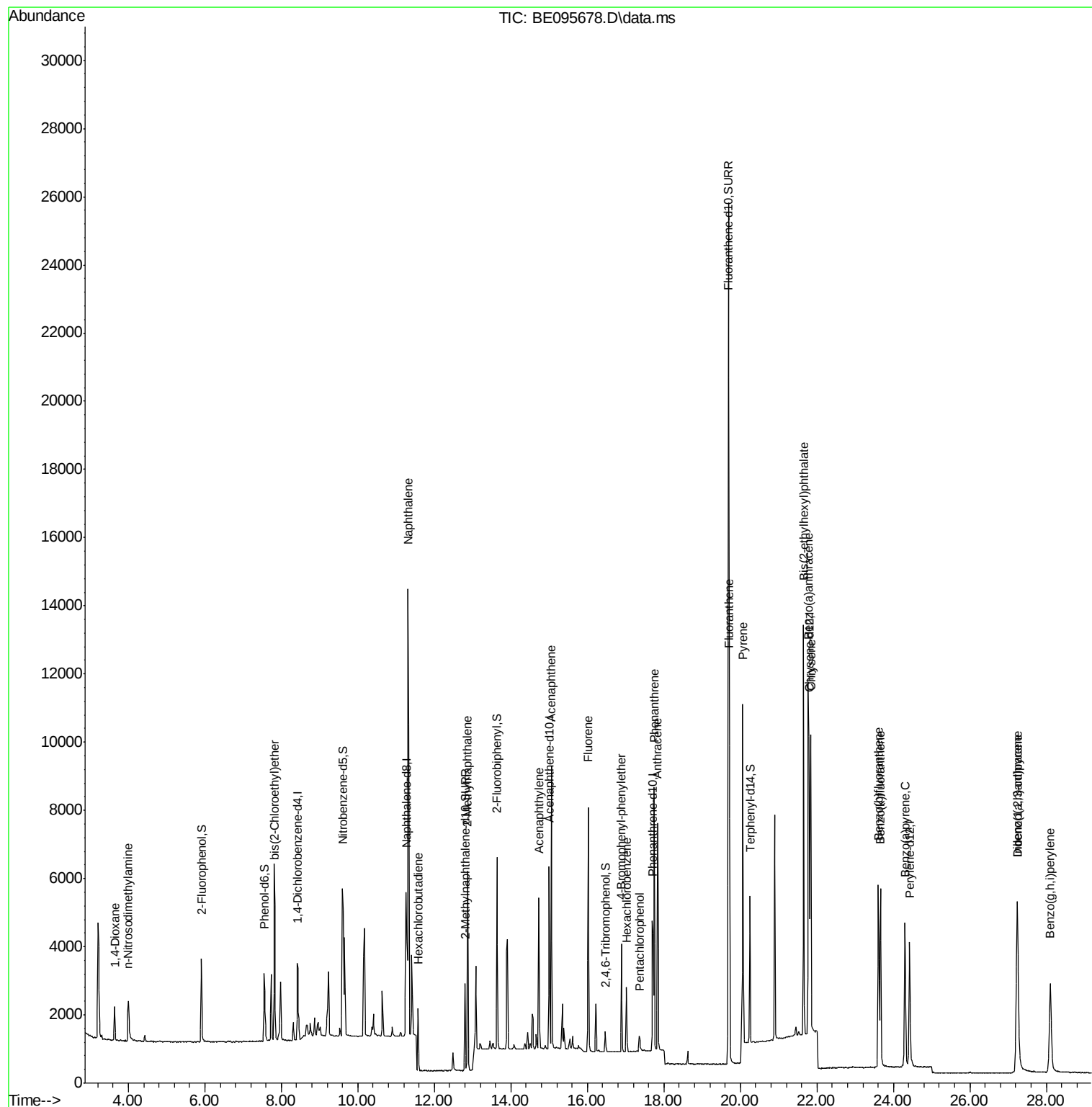
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.649	88	843	0.42	ng	# 87
3) n-Nitrosodimethylamine	3.989	42	990	0.40	ng	82
6) bis(2-Chloroethyl)ether	7.829	93	1906	0.40	ng	93
9) Naphthalene	11.310	128	23338	0.40	ng	99
10) Hexachlorobutadiene	11.572	225	1507	0.45	ng	97
12) 2-Methylnaphthalene	12.871	142	3997	0.40	ng	97
16) Acenaphthylene	14.735	152	6204	0.39	ng	99
17) Acenaphthene	15.061	154	3906	0.39	ng	94
18) Fluorene	16.025	166	4924	0.39	ng	# 79
20) 4-Bromophenyl-phenylether	16.892	248	1553	0.39	ng	# 73
21) Hexachlorobenzene	17.027	284	1641	0.40	ng	# 82
22) Pentachlorophenol	17.356	266	325	0.39	ng	# 79
23) Phenanthrene	17.745	178	7839	0.40	ng	98
24) Anthracene	17.834	178	7013	0.39	ng	95
26) Fluoranthene	19.715	202	9474	0.39	ng	97
28) Pyrene	20.064	202	9998	0.37	ng	97
30) Benzo(a)anthracene	21.776	228	8466	0.39	ng	97
31) Chrysene	21.839	228	8477	0.40	ng	99
32) Bis(2-ethylhexyl)phtha...	21.652	149	13474	0.36	ng	99
33) Indeno(1,2,3-cd)pyrene	27.233	276	8013	0.39	ng	# 94
35) Benzo(b)fluoranthene	23.607	252	8090	0.39	ng	# 89
36) Benzo(k)fluoranthene	23.661	252	8098	0.40	ng	94
37) Benzo(a)pyrene	24.304	252	7258	0.39	ng	# 93
38) Dibenzo(a,h)anthracene	27.247	278	6364	0.39	ng	96
39) Benzo(g,h,i)perylene	28.104	276	6866	0.39	ng	# 91

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.433 min Scan# 44

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

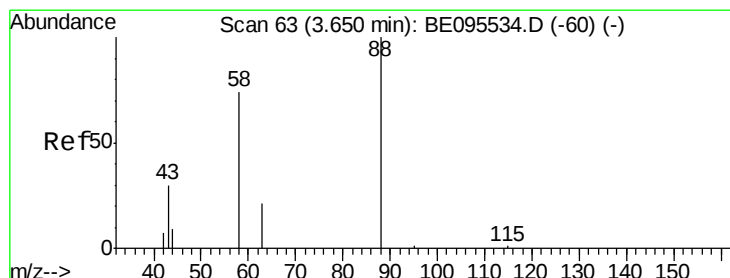
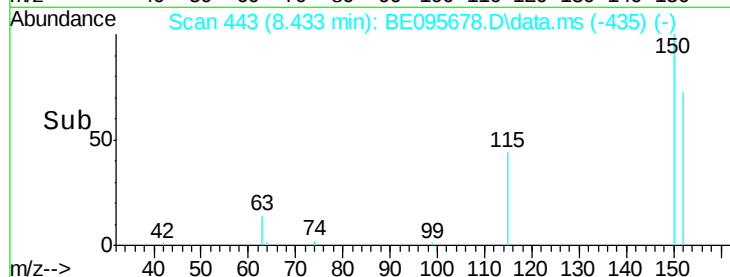
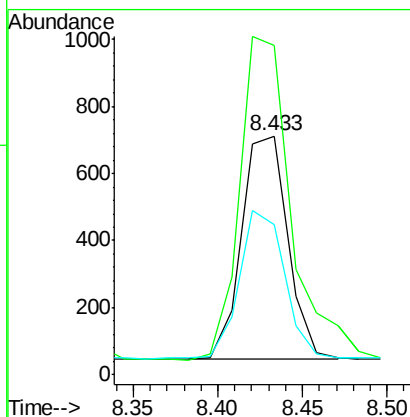
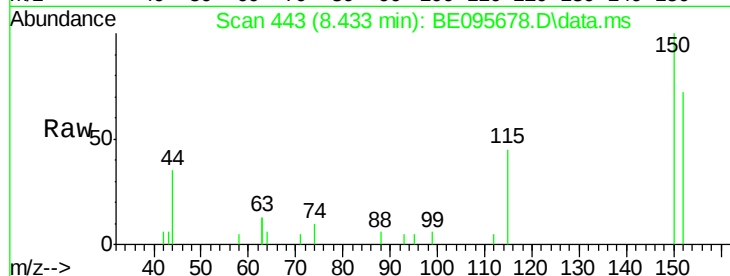
Tot Ion:152 Resp: 1260

Ion Ratio Lower Upper

152 100

150 138.0 117.2 175.8

115 62.6 57.0 85.6



#2

1,4-Dioxane

Concen: 0.42 ng

RT: 3.649 min Scan# 63

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

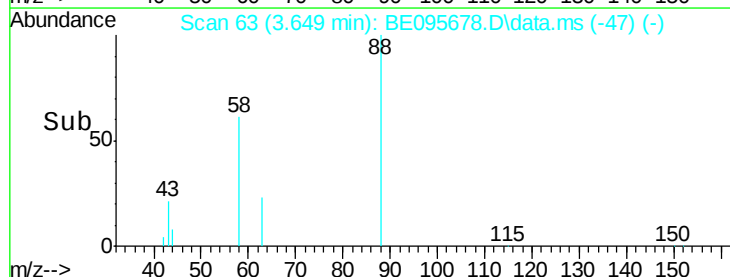
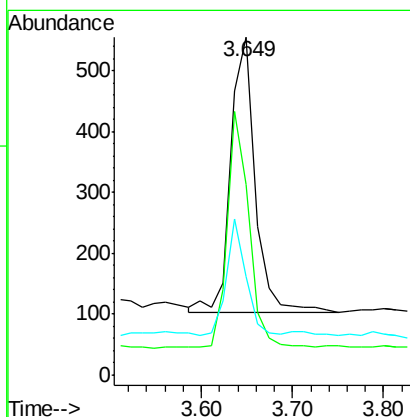
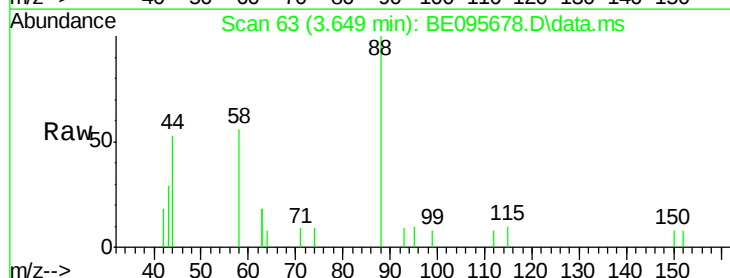
Tgt Ion: 88 Resp: 843

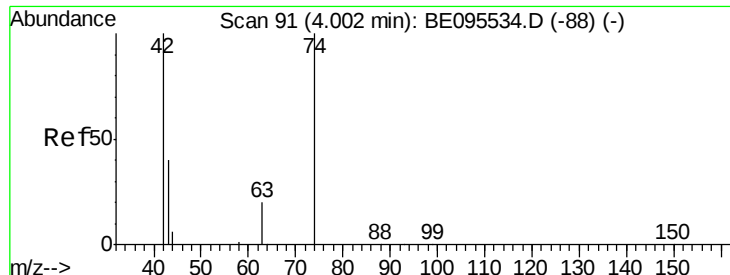
Ion Ratio Lower Upper

88 100

58 75.9 63.2 94.8

43 32.7 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.40 ng

RT: 3.989 min Scan# 90

Delta R.T. -0.013 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

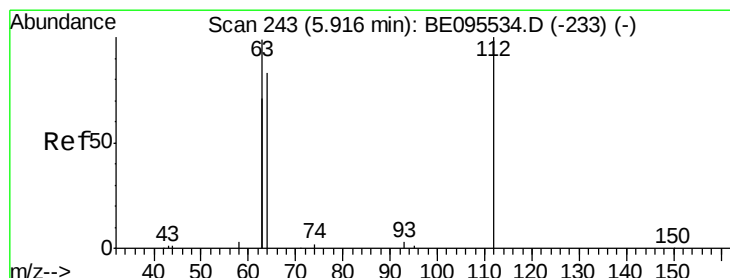
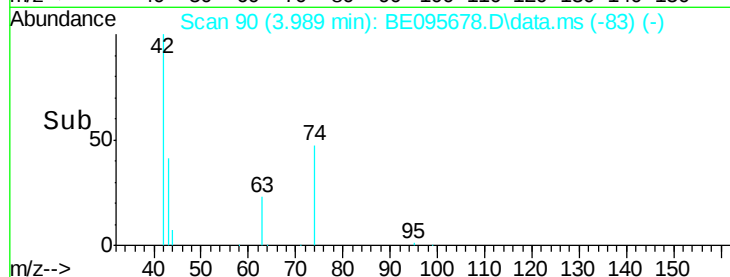
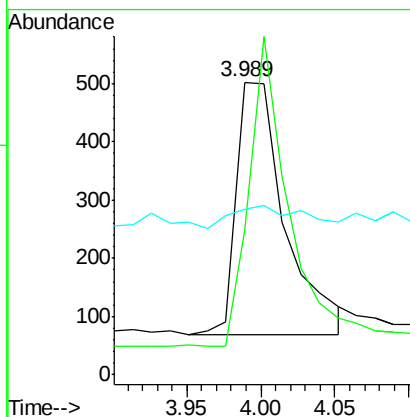
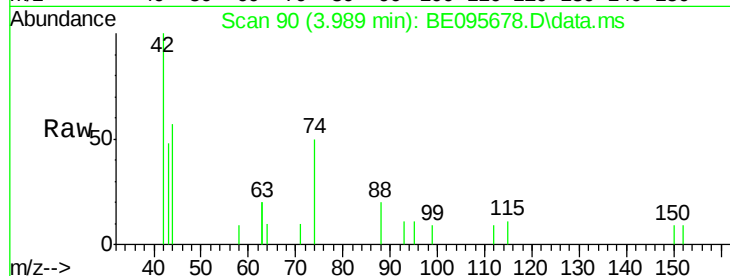
Tot Ion: 42 Resp: 990

Ion Ratio Lower Upper

42 100

74 98.1 96.0 144.0

44 13.3 12.0 18.0



#4

2-Fluorophenol

Concen: 0.39 ng

RT: 5.915 min Scan# 243

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

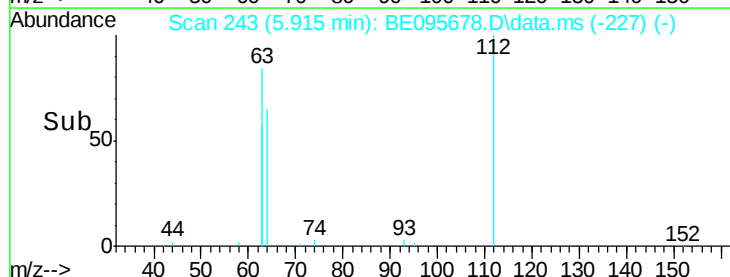
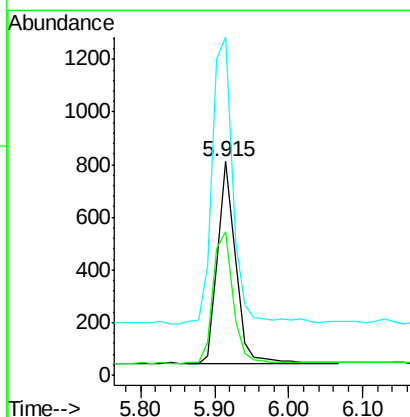
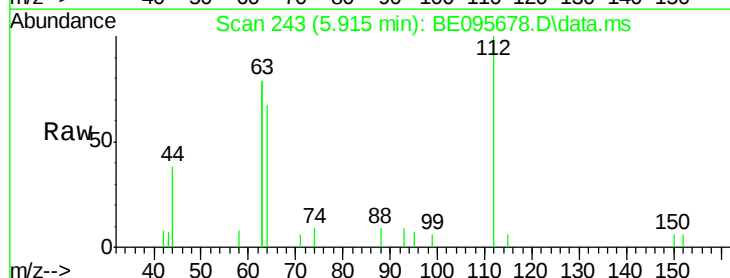
Tgt Ion: 112 Resp: 1311

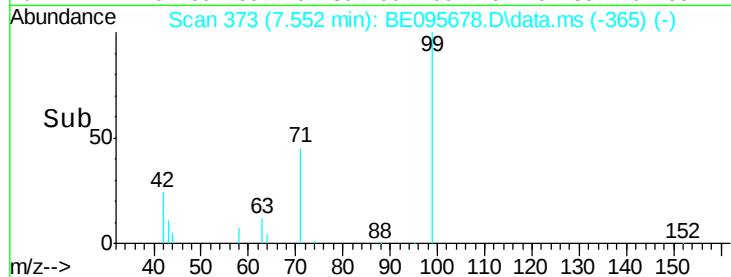
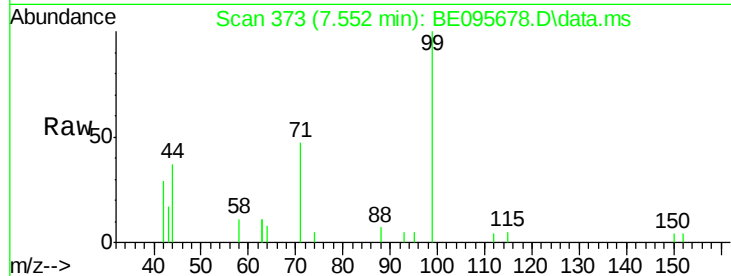
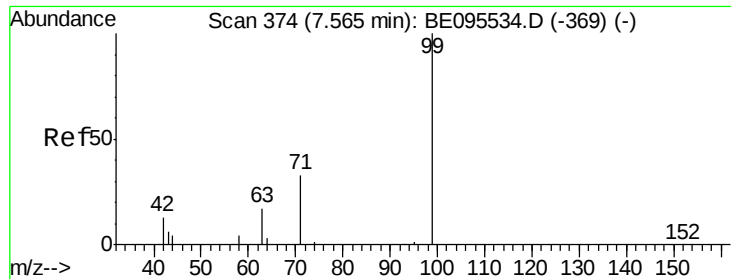
Ion Ratio Lower Upper

112 100

64 72.8 60.1 90.1

63 162.9 116.8 175.2





#5

Phenol-d6

Concen: 0.40 ng

RT: 7.552 min Scan# 37

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

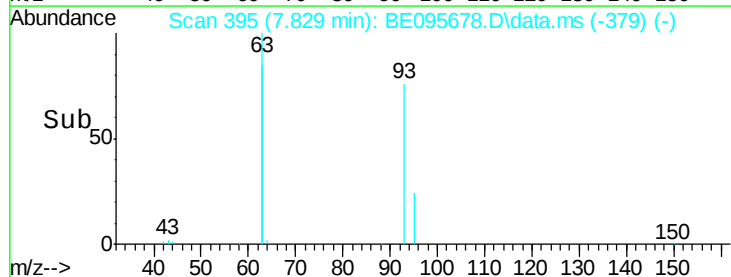
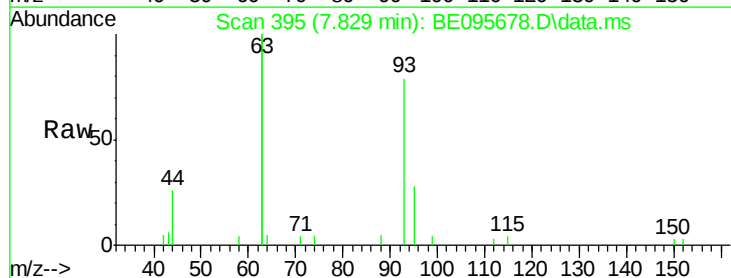
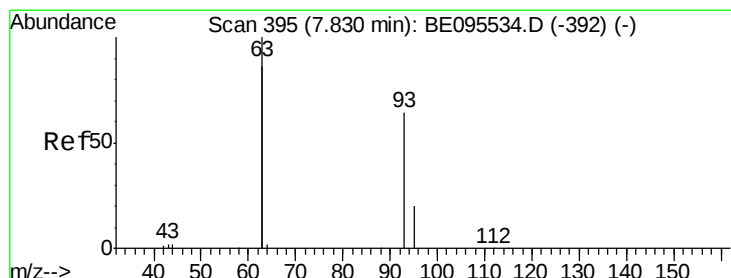
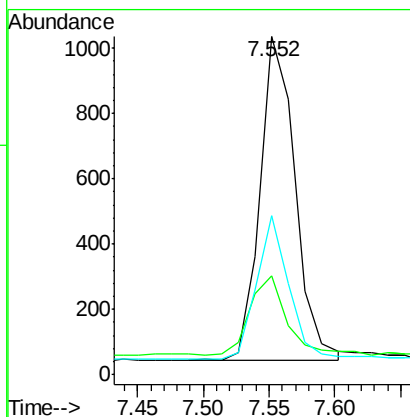
Tot Ion: 99 Resp: 1825

Ion Ratio Lower Upper

99 100

42 25.3 20.2 30.2

71 41.2 28.4 42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.40 ng

RT: 7.829 min Scan# 395

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

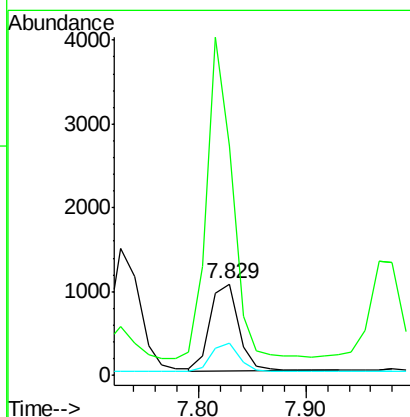
Tgt Ion: 93 Resp: 1906

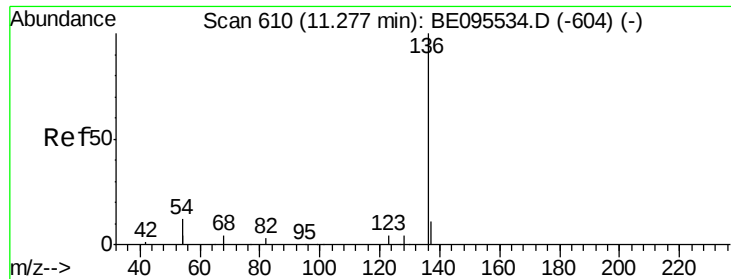
Ion Ratio Lower Upper

93 100

63 328.2 275.3 412.9

95 31.5 25.2 37.8





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 11.259 min Scan# 60

Delta R.T. -0.017 min

Lab File: BE095678.D

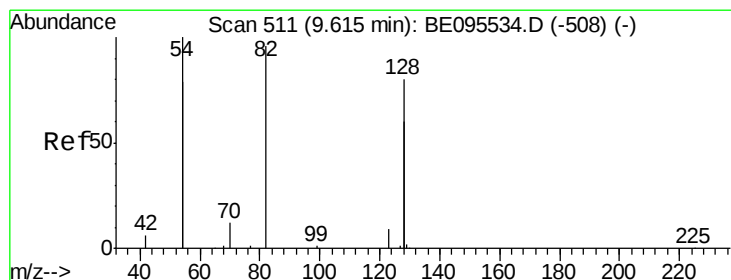
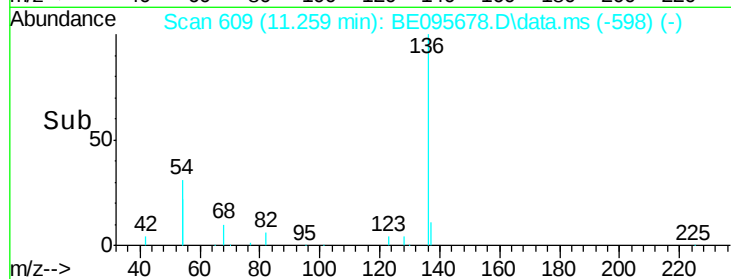
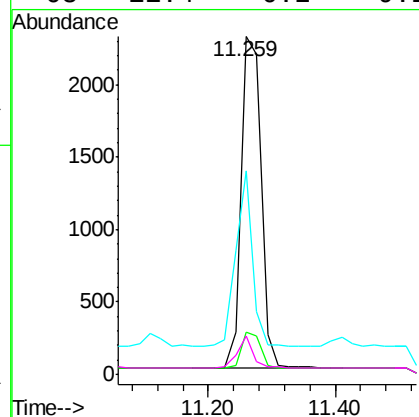
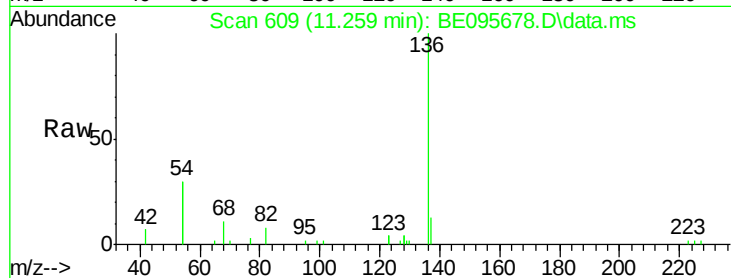
Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

Tot Ion:	136	Resp:	5017
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.5	14.3
54	60.3	29.1	43.7#
68	11.4	6.2	9.2#



#8

Nitrobenzene-d5

Concen: 0.37 ng

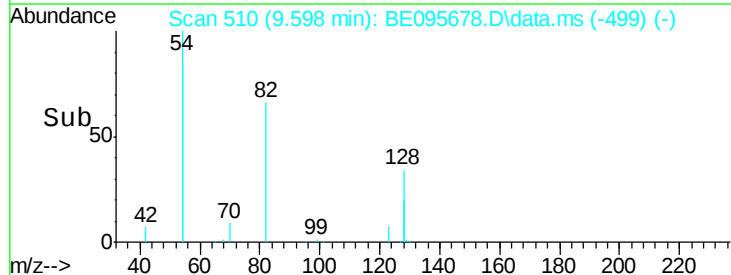
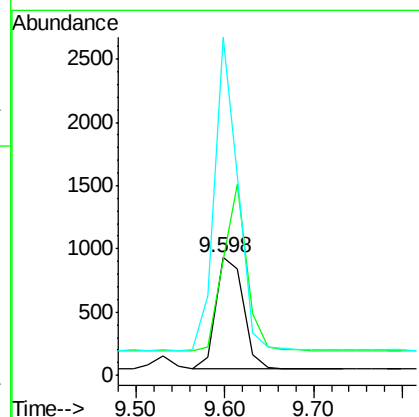
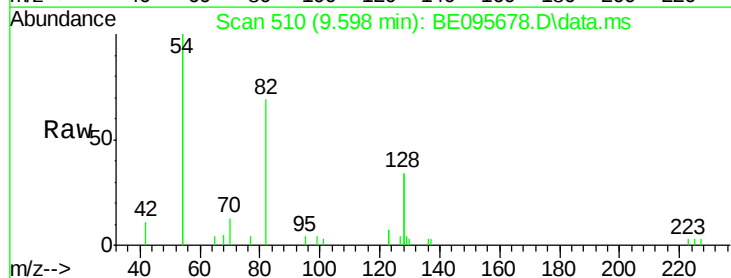
RT: 9.598 min Scan# 510

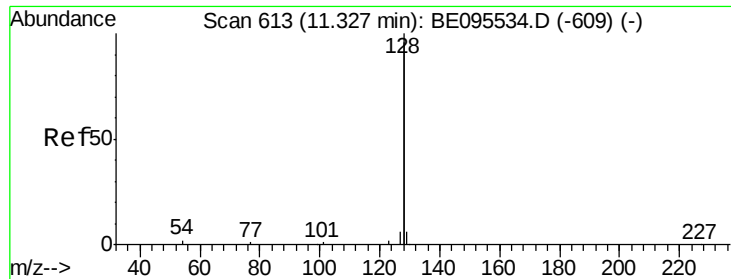
Delta R.T. -0.017 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Tgt Ion:	82	Resp:	1910
Ion	Ratio	Lower	Upper
82	100		
128	98.4	150.0	225.0#
54	287.8	154.2	231.4#





#9

Naphthalene

Concen: 0.40 ng

RT: 11.310 min Scan# 61

Delta R.T. 0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

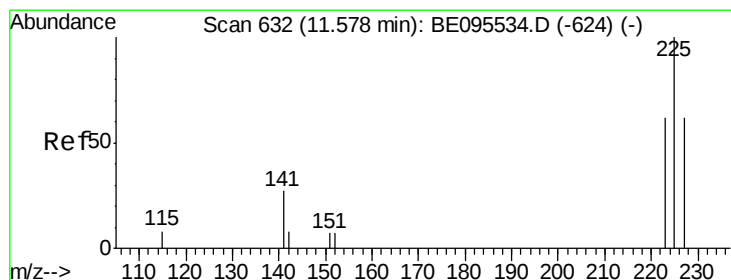
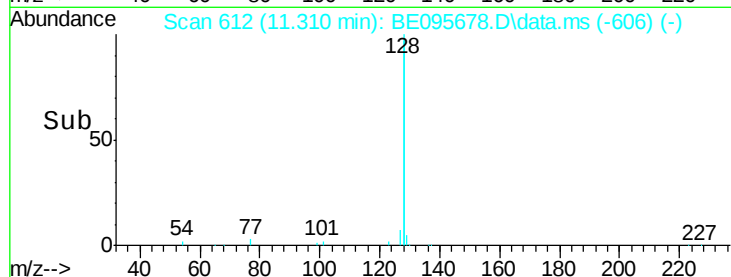
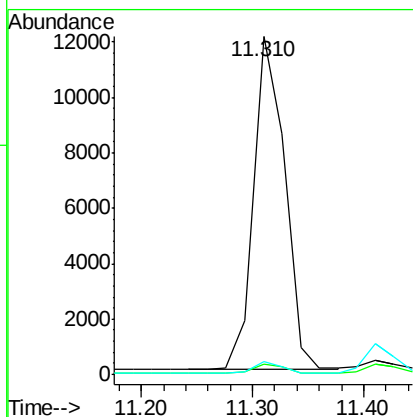
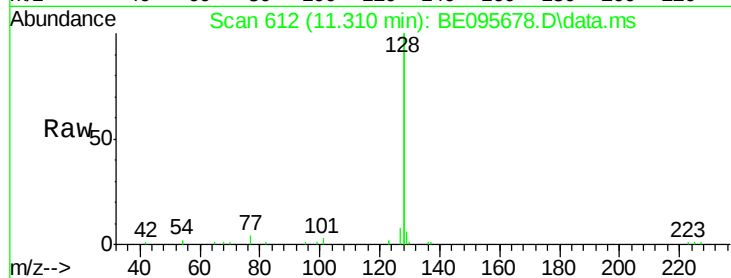
Tot Ion:128 Resp: 23338

Ion Ratio Lower Upper

128 100

129 3.1 2.6 3.8

127 3.8 2.8 4.2



#10

Hexachlorobutadiene

Concen: 0.45 ng

RT: 11.572 min Scan# 631

Delta R.T. 0.001 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

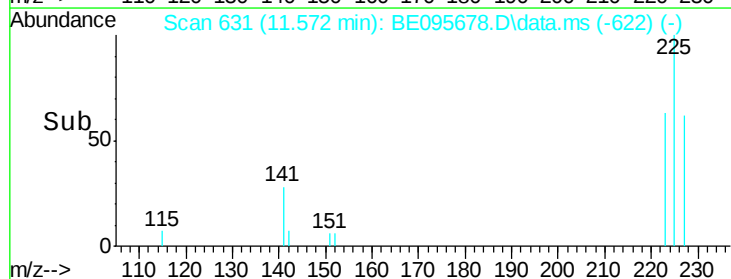
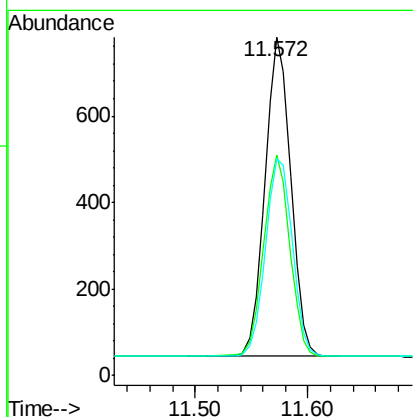
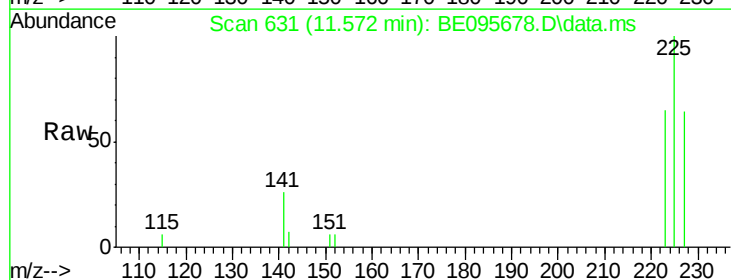
Tgt Ion:225 Resp: 1507

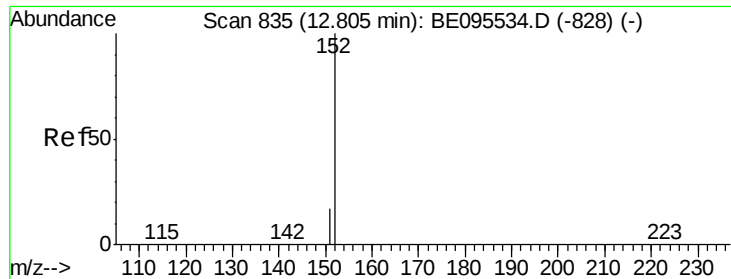
Ion Ratio Lower Upper

225 100

223 65.4 53.0 79.6

227 60.1 51.4 77.2

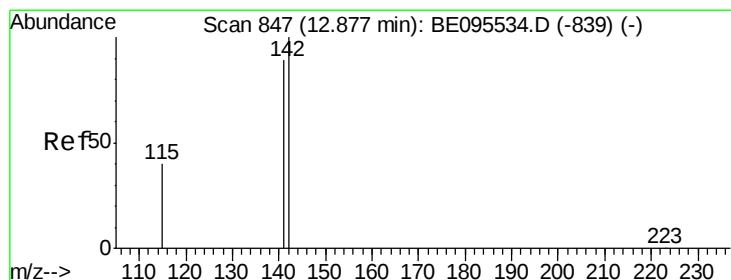
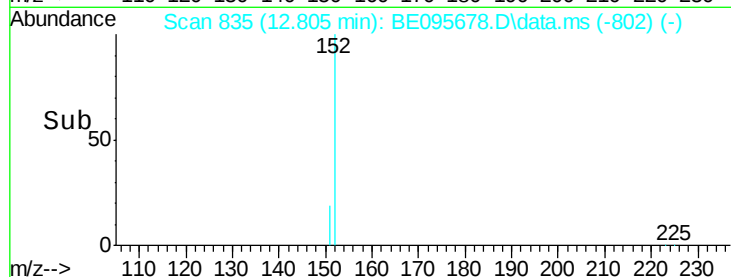
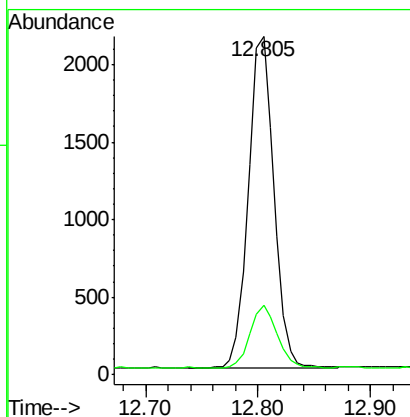
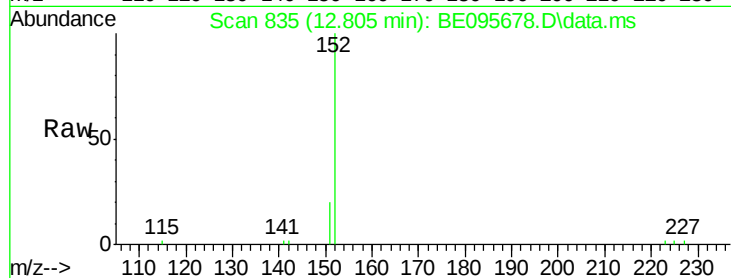




#11
2-Methylnaphthalene-d10
Concen: 0.40 ng
RT: 12.805 min Scan# 835
Delta R.T. 0.001 min
Lab File: BE095678.D
Acq: 23 Feb 2018 12:08

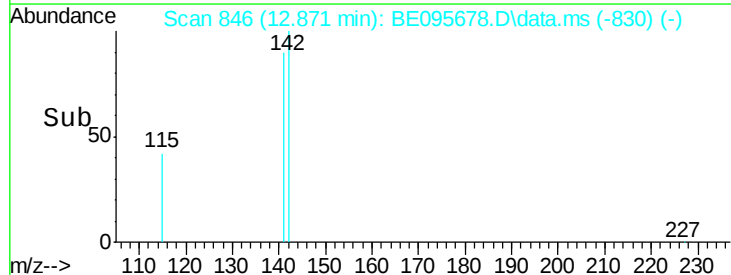
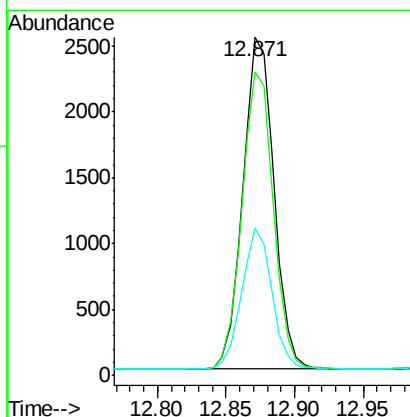
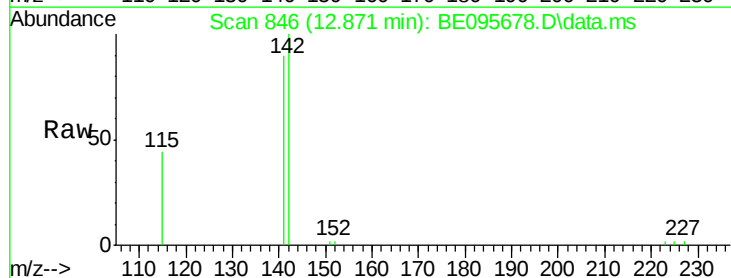
Instrument :
BNA_E
ClientSampleId :

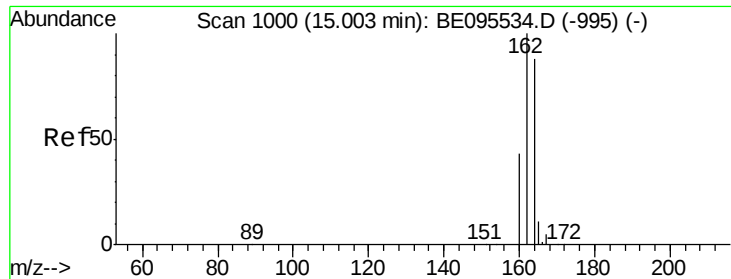
Tot Ion:152 Resp: 3385
Ion Ratio Lower Upper
152 100
151 20.0 15.4 23.0



#12
2-Methylnaphthalene
Concen: 0.40 ng
RT: 12.871 min Scan# 846
Delta R.T. -0.005 min
Lab File: BE095678.D
Acq: 23 Feb 2018 12:08

Tgt Ion:142 Resp: 3997
Ion Ratio Lower Upper
142 100
141 89.9 70.4 105.6
115 43.7 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 15.002 min Scan# 1000

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

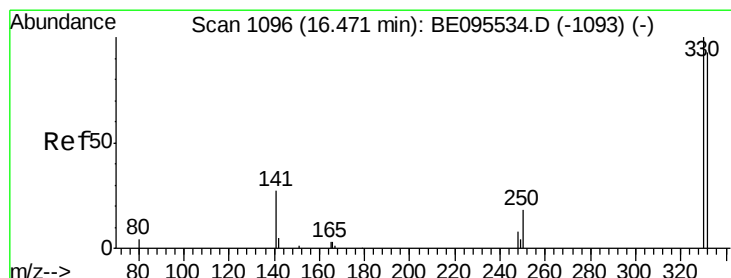
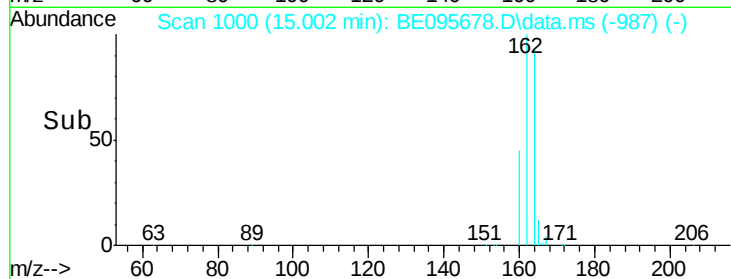
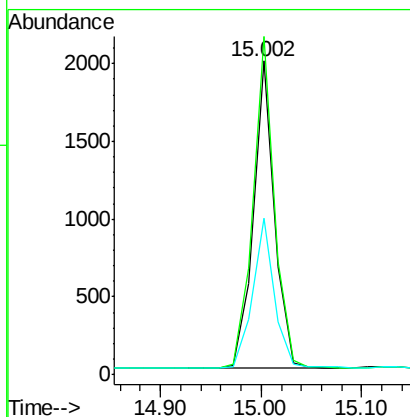
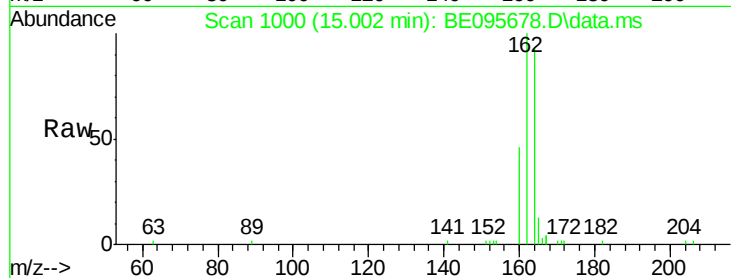
Tot Ion:164 Resp: 2860

Ion Ratio Lower Upper

164 100

162 107.6 83.1 124.7

160 49.8 37.1 55.7



#14

2,4,6-Tribromophenol

Concen: 0.40 ng

RT: 16.473 min Scan# 1096

Delta R.T. 0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

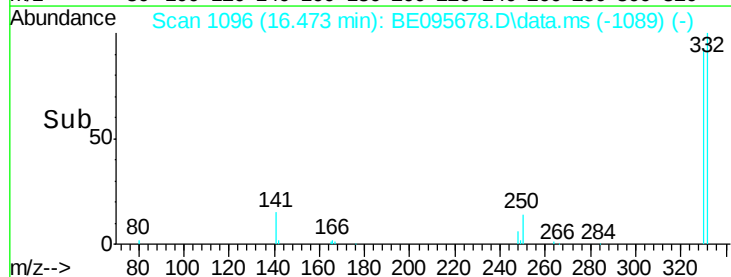
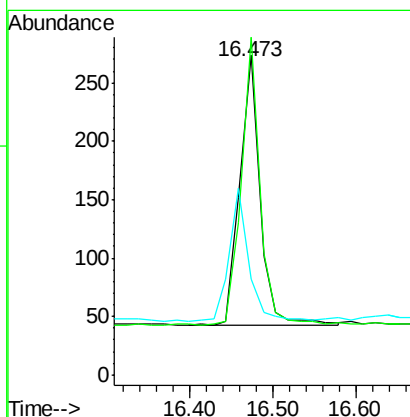
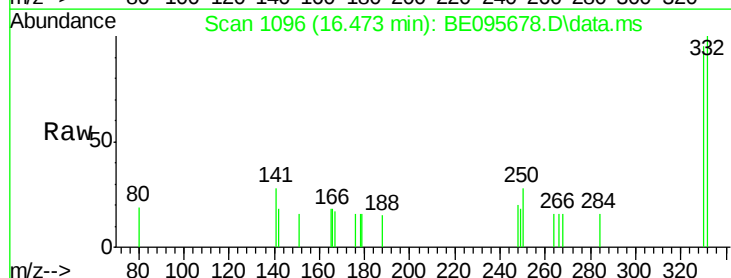
Tgt Ion:330 Resp: 385

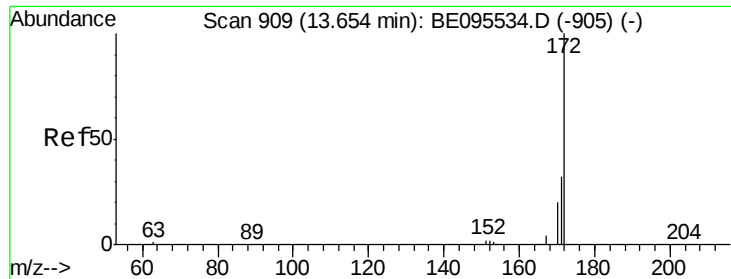
Ion Ratio Lower Upper

330 100

332 98.7 152.7 229.1#

141 47.8 33.7 50.5

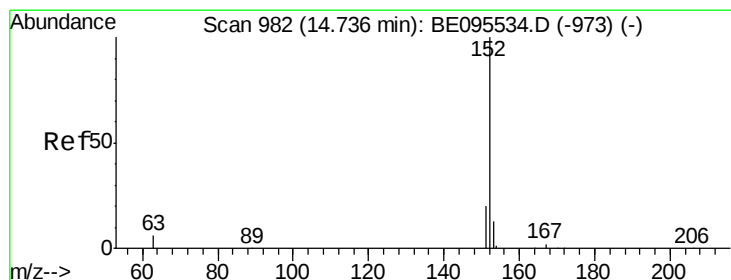
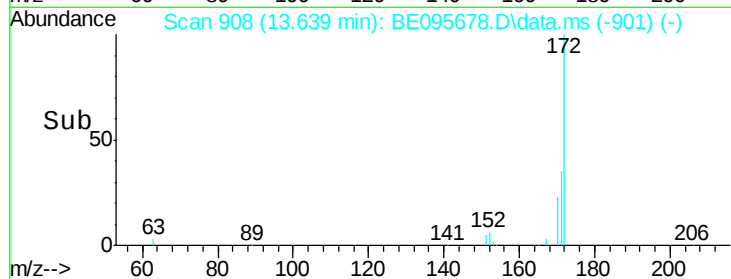
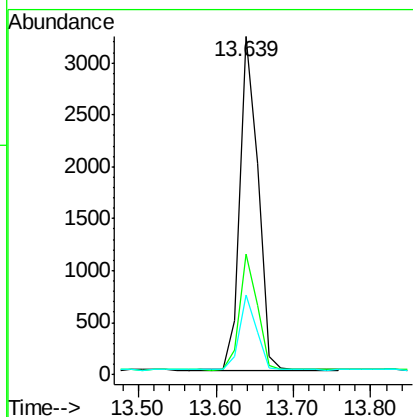
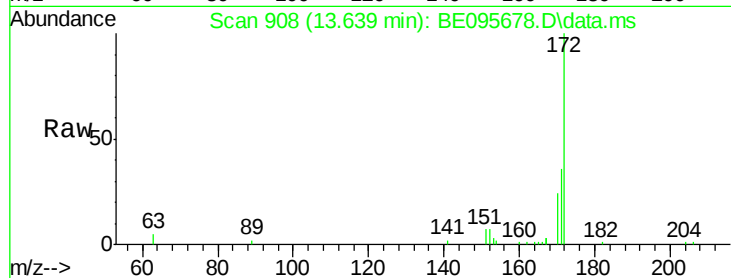




#15
2-Fluorobiphenyl
Concen: 0.41 ng
RT: 13.639 min Scan# 909
Delta R.T. -0.000 min
Lab File: BE095678.D
Acq: 23 Feb 2018 12:08

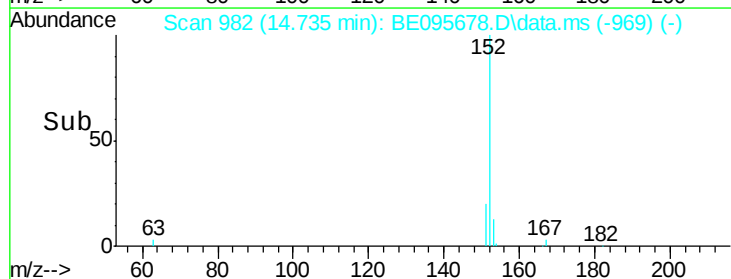
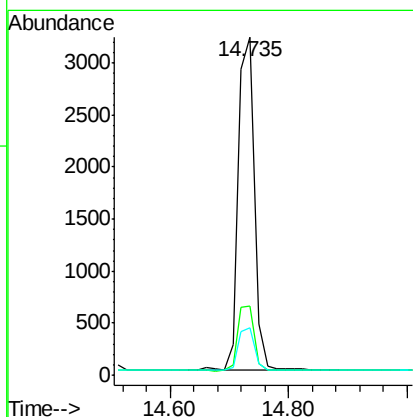
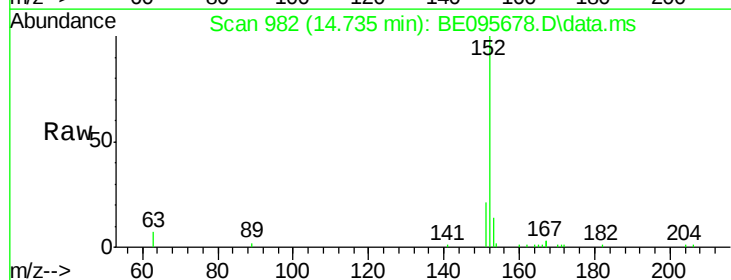
Instrument :
BNA_E
ClientSampleId :

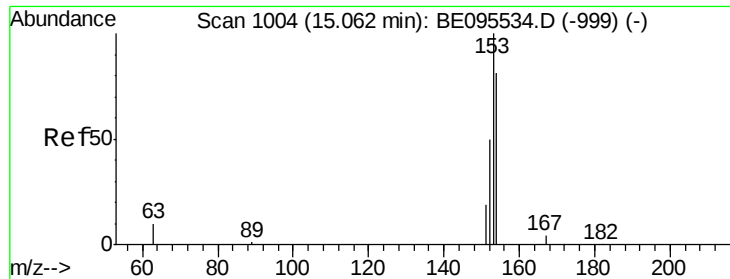
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.9	44.9
170	23.6	21.8	32.8



#16
Acenaphthylene
Concen: 0.39 ng
RT: 14.735 min Scan# 982
Delta R.T. -0.000 min
Lab File: BE095678.D
Acq: 23 Feb 2018 12:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	12.8	10.5	15.7





#17

Acenaphthene

Concen: 0.39 ng

RT: 15.061 min Scan# 10

Delta R.T. -0.000 min

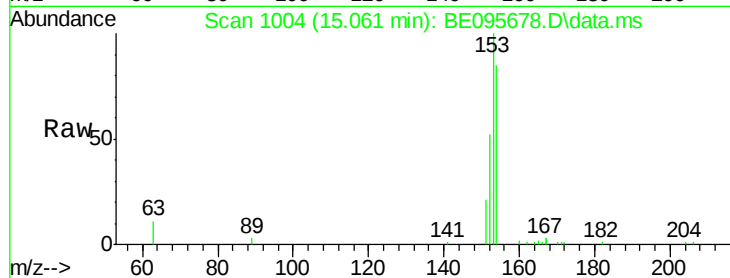
Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :



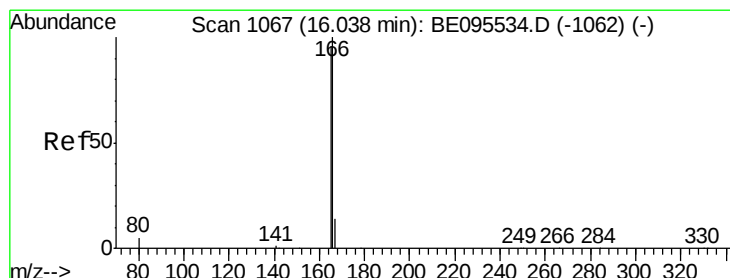
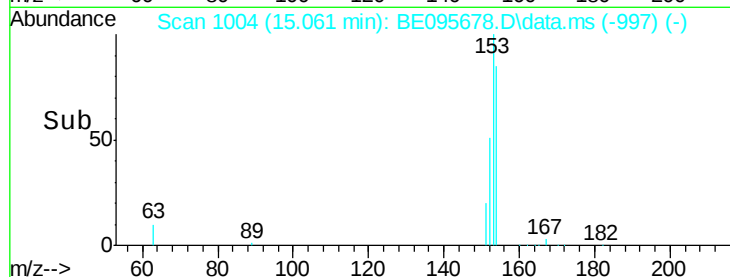
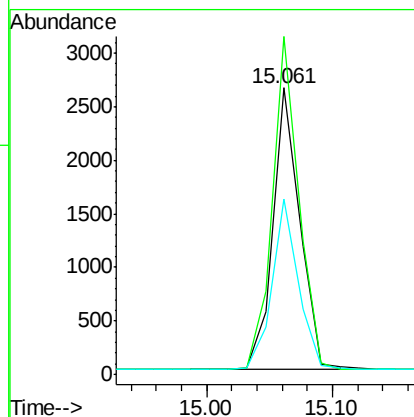
Tot Ion:154 Resp: 3906

Ion Ratio Lower Upper

154 100

153 116.5 89.2 133.8

152 59.4 42.0 63.0



#18

Fluorene

Concen: 0.39 ng

RT: 16.025 min Scan# 1066

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

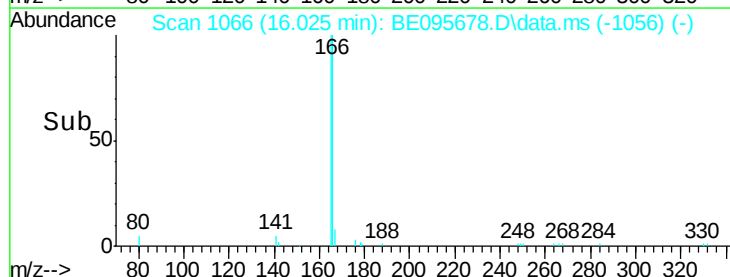
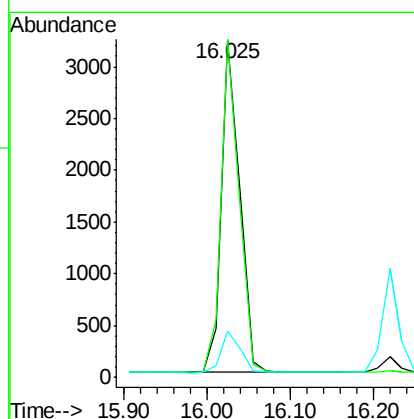
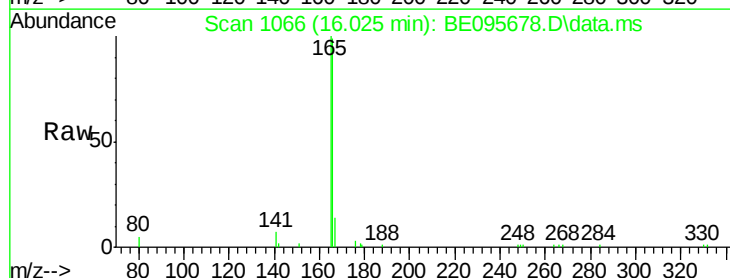
Tgt Ion:166 Resp: 4924

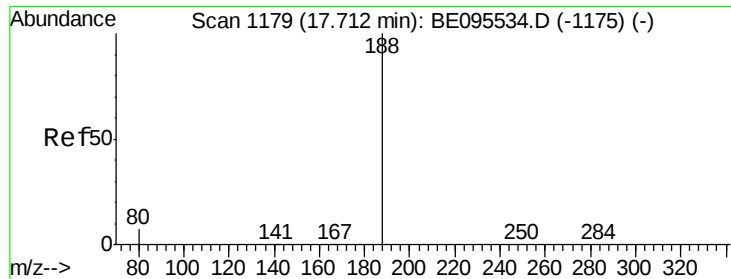
Ion Ratio Lower Upper

166 100

165 99.2 77.8 116.6

167 13.2 42.4 63.6#





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.700 min Scan# 1179

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

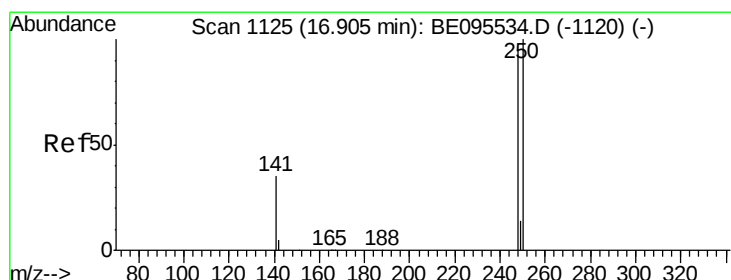
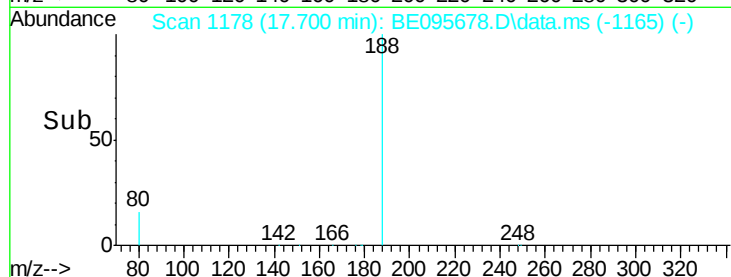
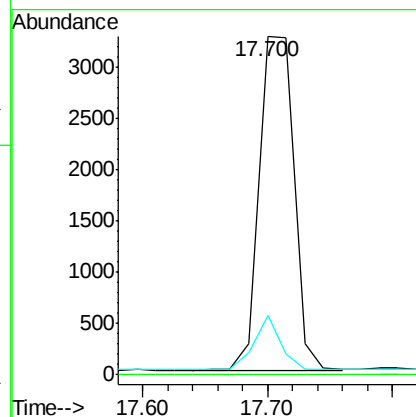
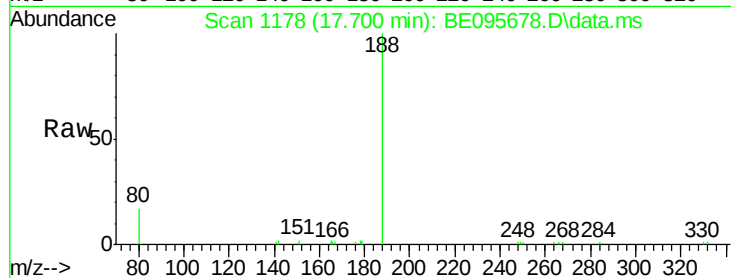
Tot Ion:188 Resp: 6329

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 17.5 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.39 ng

RT: 16.892 min Scan# 1124

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

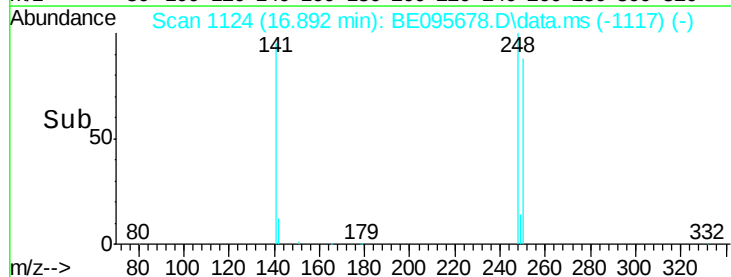
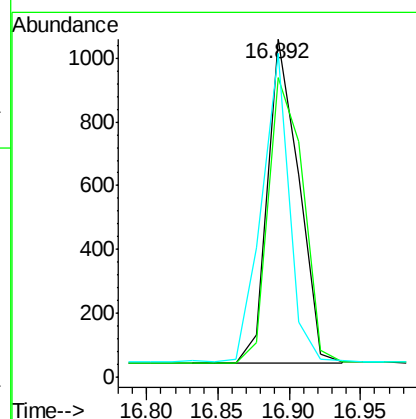
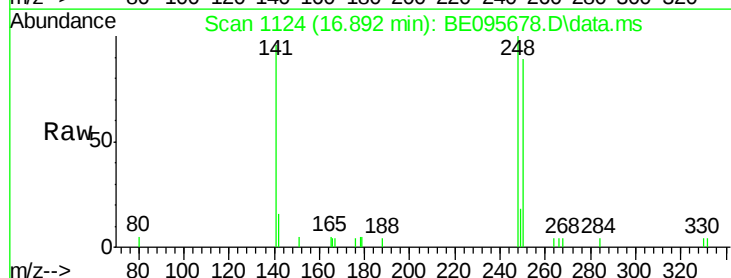
Tgt Ion:248 Resp: 1553

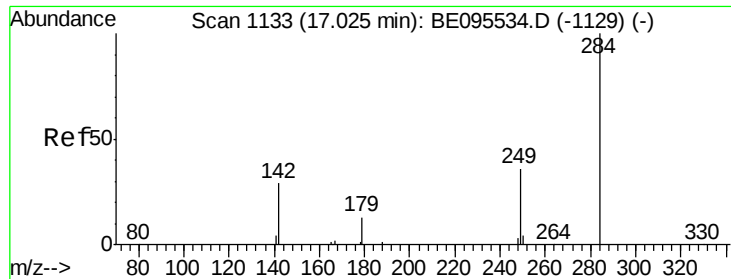
Ion Ratio Lower Upper

248 100

250 88.7 62.7 94.1

141 95.8 48.2 72.2#





#21

Hexachlorobenzene

Concen: 0.40 ng

RT: 17.027 min Scan# 1133

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

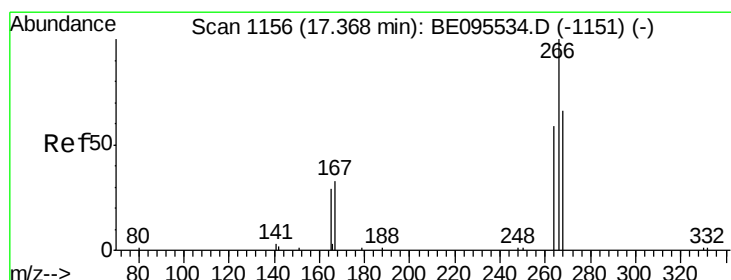
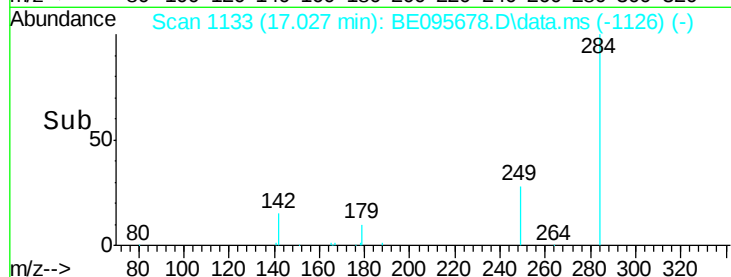
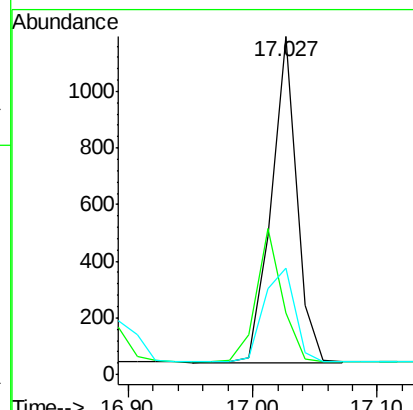
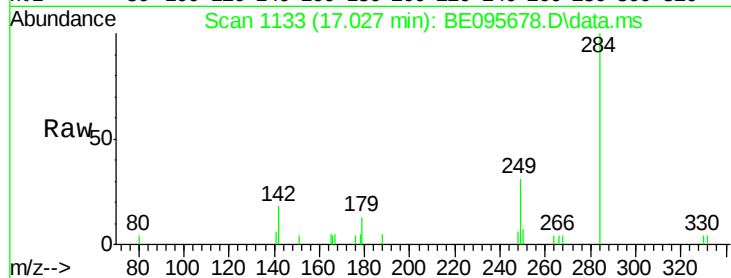
Tot Ion:284 Resp: 1641

Ion Ratio Lower Upper

284 100

142 41.1 22.1 33.1#

249 34.7 34.8 52.2#



#22

Pentachlorophenol

Concen: 0.39 ng

RT: 17.356 min Scan# 1155

Delta R.T. -0.014 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

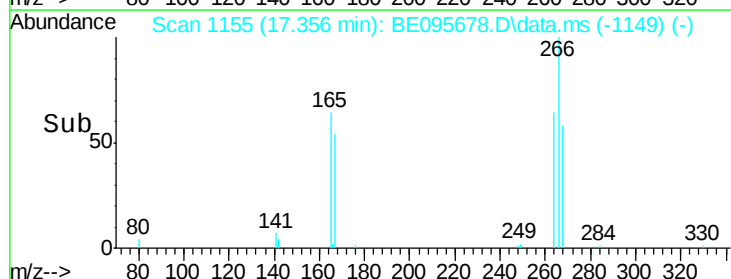
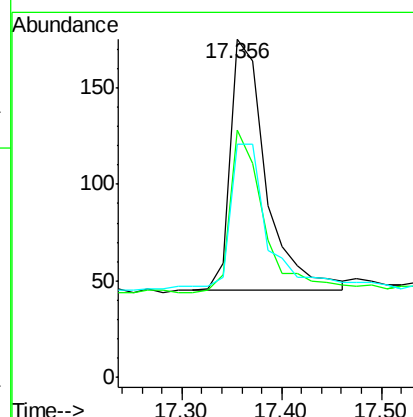
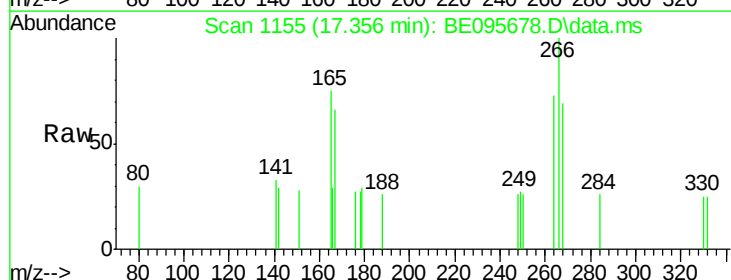
Tgt Ion:266 Resp: 325

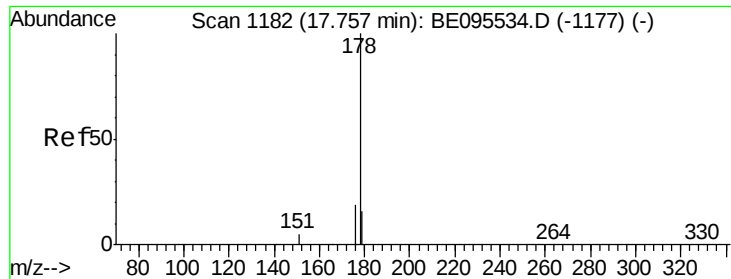
Ion Ratio Lower Upper

266 100

264 73.1 72.5 108.7

268 69.1 73.8 110.6#





#23

Phenanthrene

Concen: 0.40 ng

RT: 17.745 min Scan# 11

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

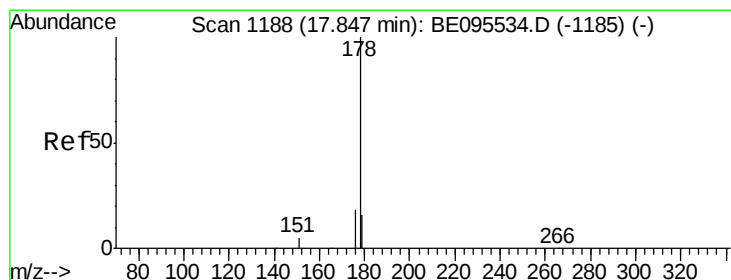
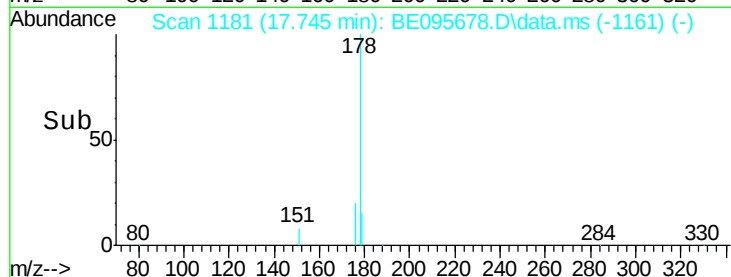
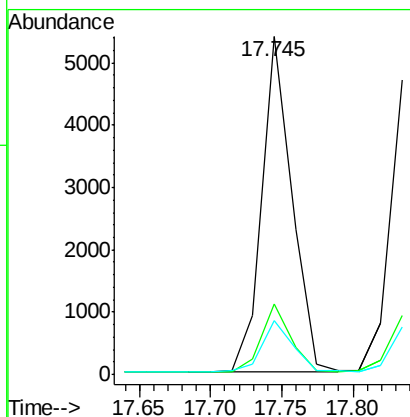
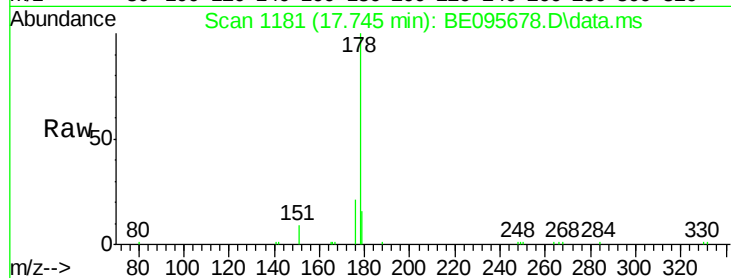
Tot Ion:178 Resp: 7839

Ion Ratio Lower Upper

178 100

176 20.1 15.1 22.7

179 15.2 11.8 17.6



#24

Anthracene

Concen: 0.39 ng

RT: 17.834 min Scan# 1187

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

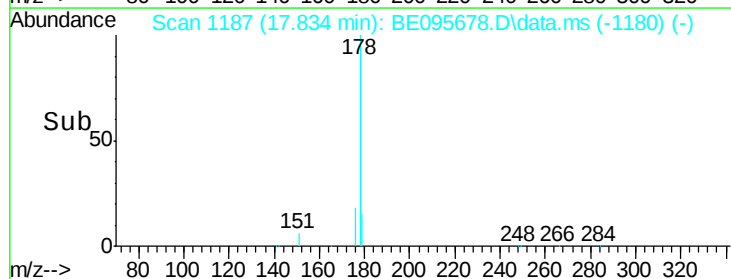
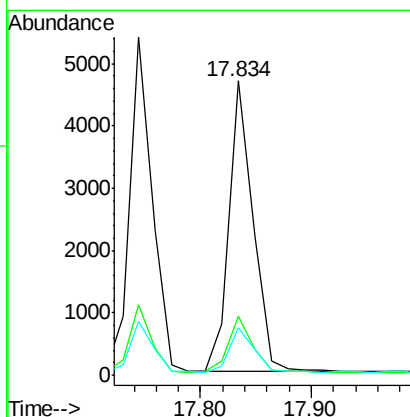
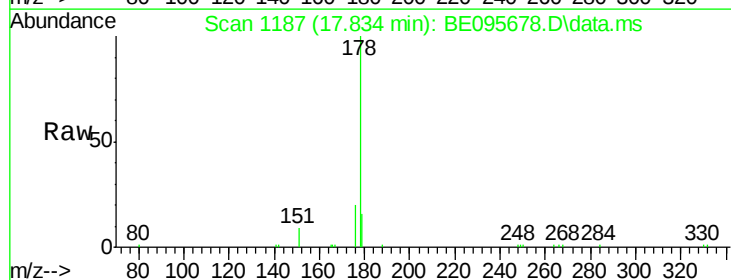
Tgt Ion:178 Resp: 7013

Ion Ratio Lower Upper

178 100

176 18.9 12.8 19.2

179 15.3 13.0 19.6

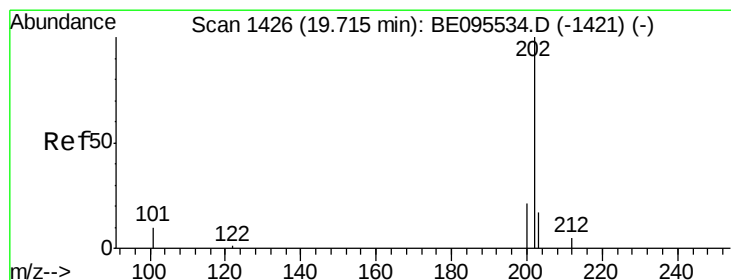
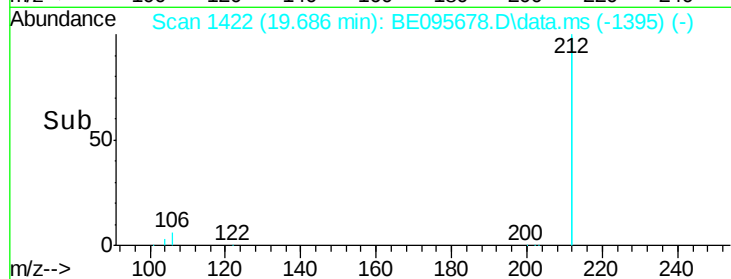
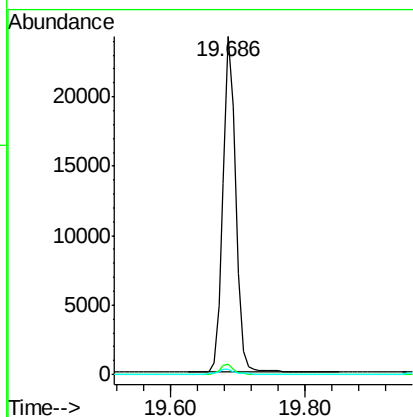
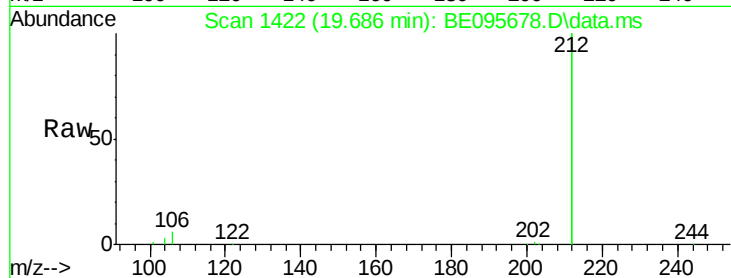




#25
 Fluoranthene-d10
 Concen: 0.39 ng
 RT: 19.686 min Scan# 1422
 Delta R.T. -0.000 min
 Lab File: BE095678.D
 Acq: 23 Feb 2018 12:08

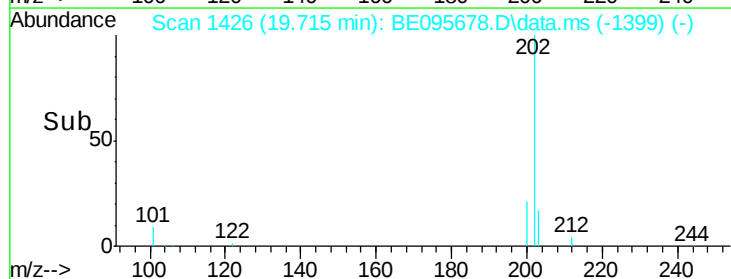
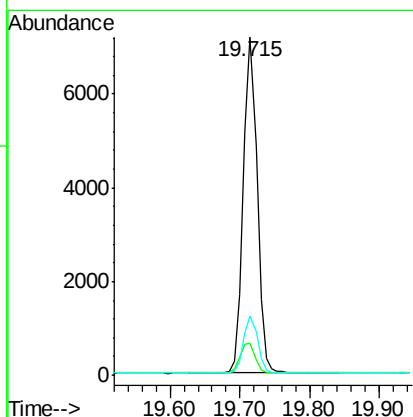
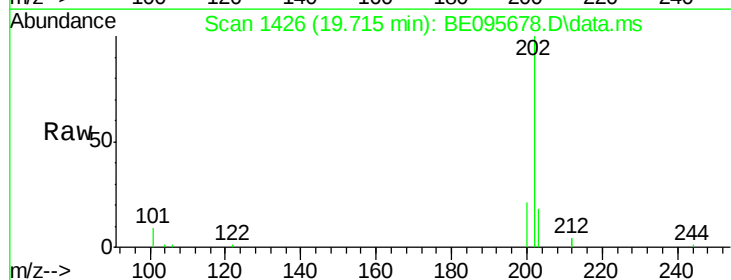
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
212	100		
106	2.8	2.8	4.2
104	1.7	1.6	2.4



#26
 Fluoranthene
 Concen: 0.39 ng
 RT: 19.715 min Scan# 1426
 Delta R.T. -0.000 min
 Lab File: BE095678.D
 Acq: 23 Feb 2018 12:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.8	9.8	14.8
203	17.2	13.7	20.5





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.792 min Scan# 15

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

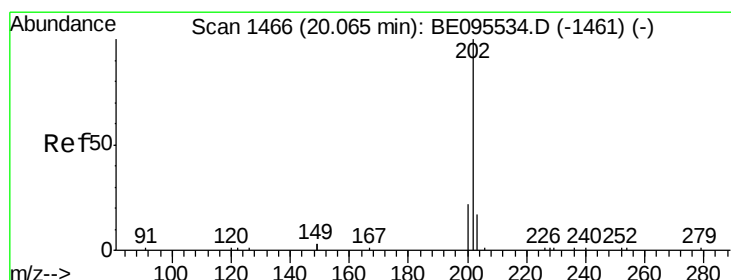
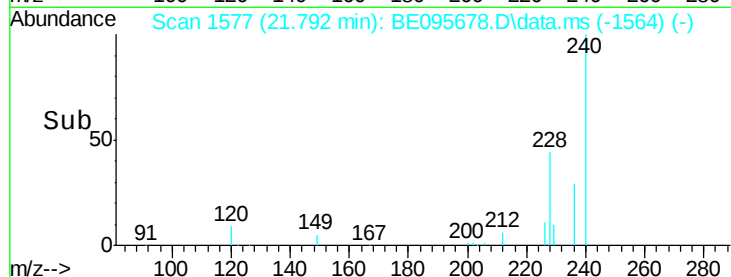
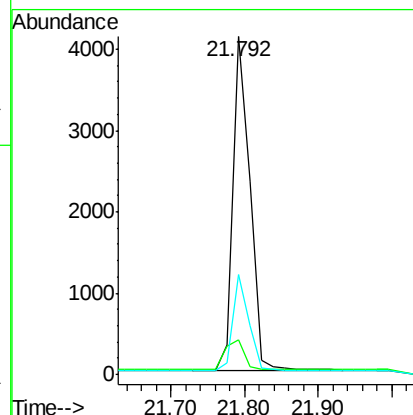
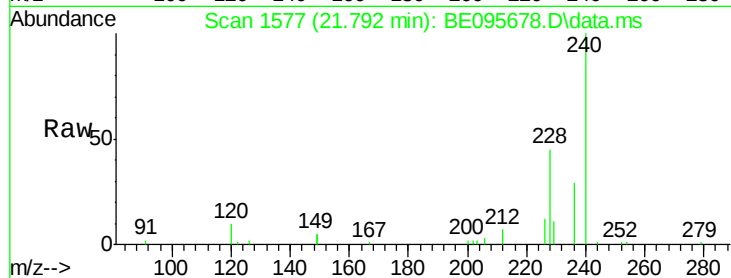
Tot Ion:240 Resp: 6576

Ion Ratio Lower Upper

240 100 5.5 8.3#

120 10.4 20.7 31.1

236 29.4 20.7 31.1



#28

Pyrene

Concen: 0.37 ng

RT: 20.064 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

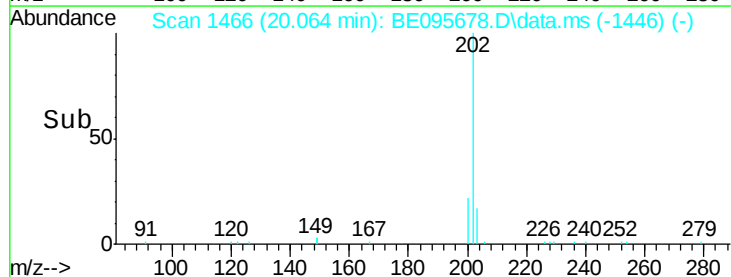
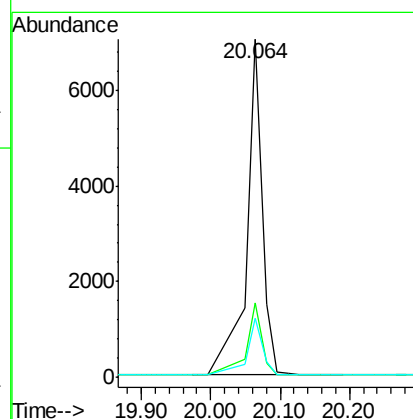
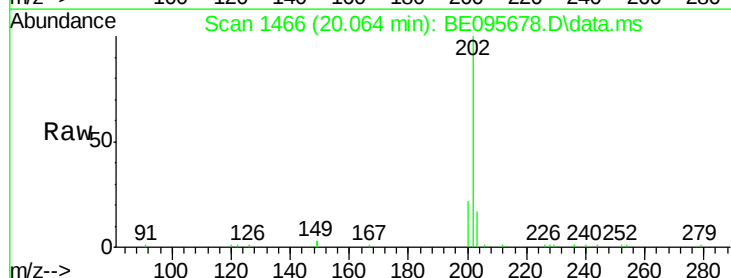
Tgt Ion:202 Resp: 9998

Ion Ratio Lower Upper

202 100 16.6 25.0

200 22.3 13.8 20.8

203 15.7 13.8 20.8





#29

Terphenyl-d14

Concen: 0.40 ng

RT: 20.251 min Scan# 1478

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

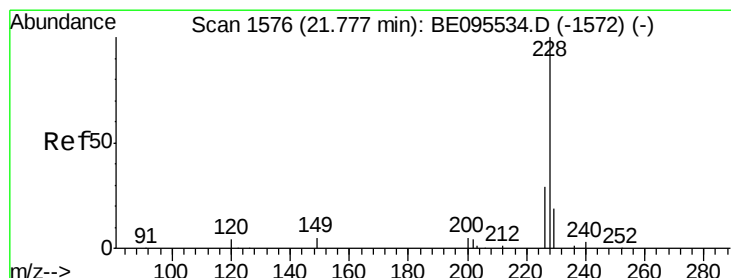
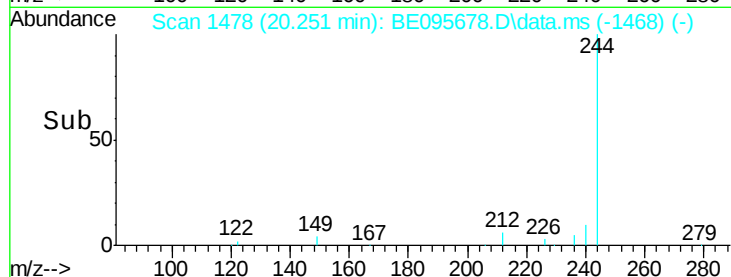
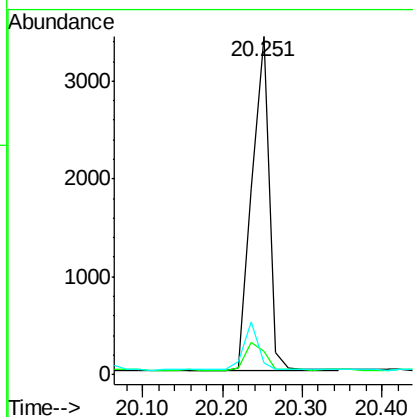
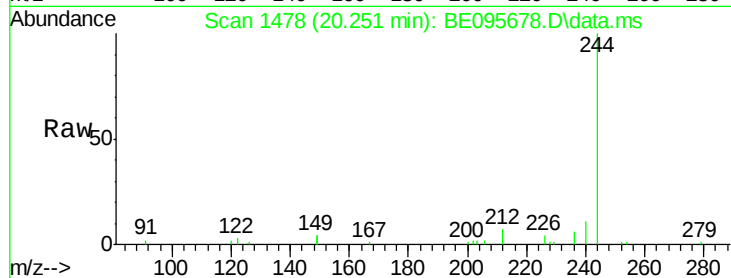
Tot Ion:244 Resp: 5180

Ion Ratio Lower Upper

244 100

212 6.8 25.4 38.0#

122 3.3 8.1 12.1#



#30

Benzo(a)anthracene

Concen: 0.39 ng

RT: 21.776 min Scan# 1576

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

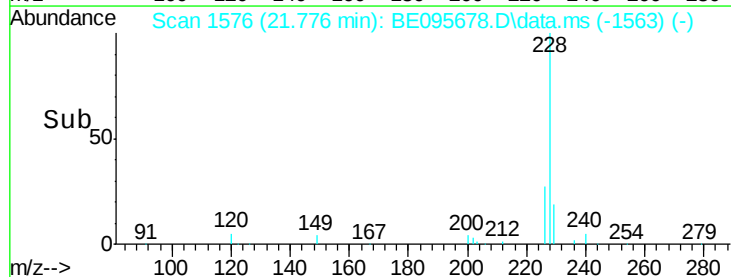
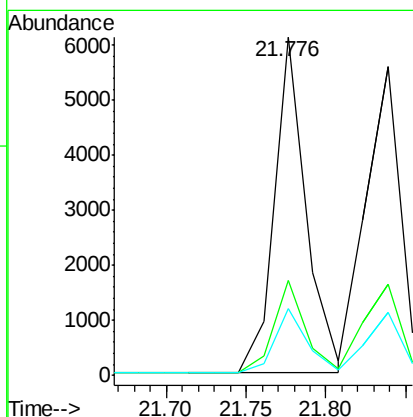
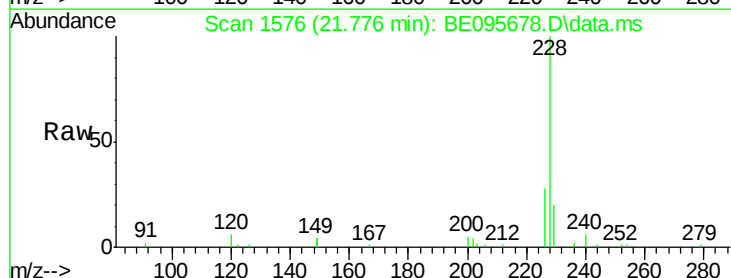
Tgt Ion:228 Resp: 8466

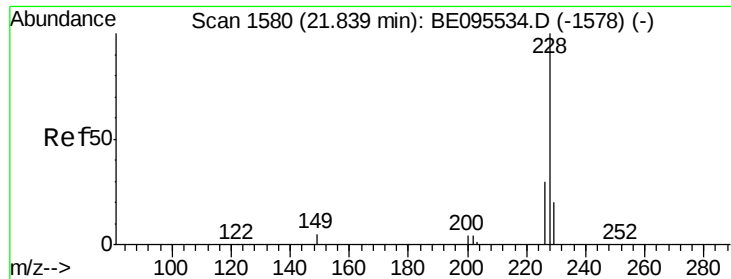
Ion Ratio Lower Upper

228 100

226 28.0 24.0 36.0

229 19.6 16.0 24.0





#31

Chrysene

Concen: 0.40 ng

RT: 21.839 min Scan# 15

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

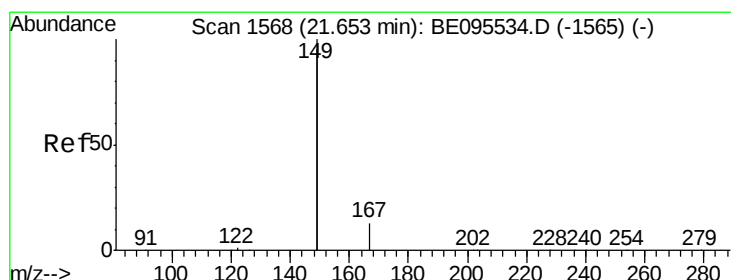
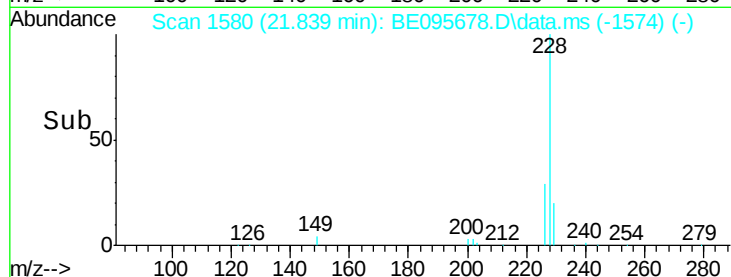
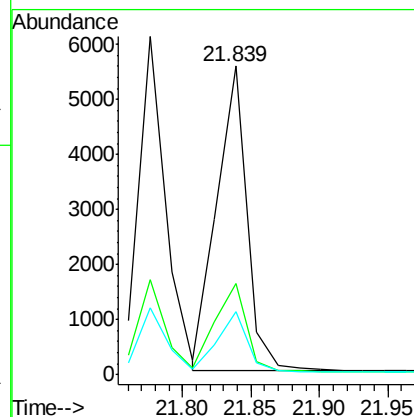
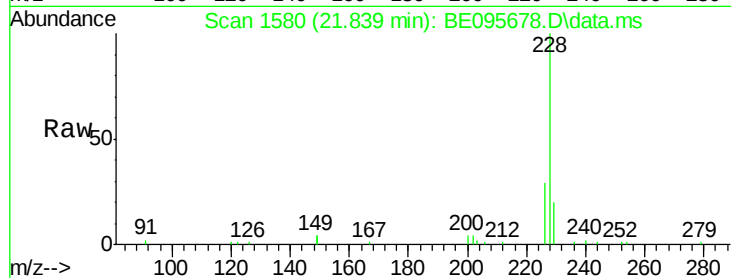
Tot Ion:228 Resp: 8477

Ion Ratio Lower Upper

228 100

226 29.5 24.0 36.0

229 20.4 16.0 24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.36 ng

RT: 21.652 min Scan# 1568

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

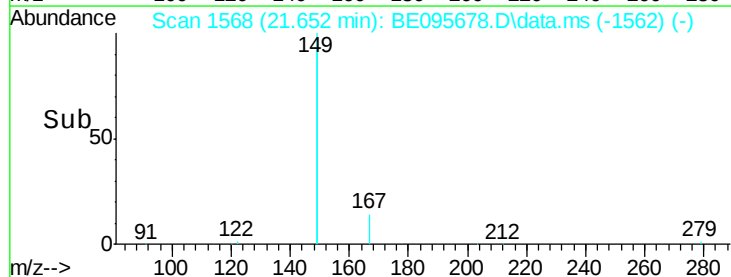
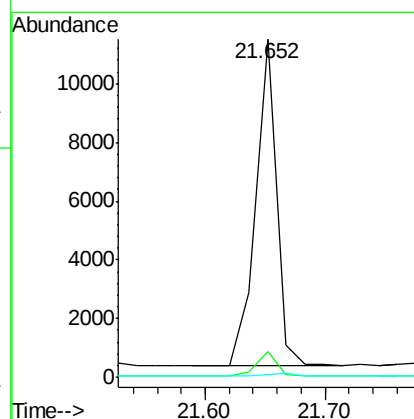
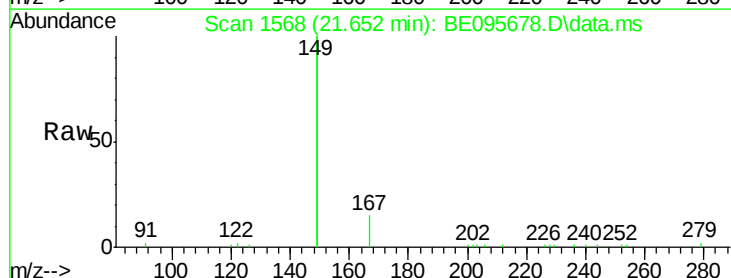
Tgt Ion:149 Resp: 13474

Ion Ratio Lower Upper

149 100

167 7.0 5.4 8.0

279 0.8 0.7 1.1

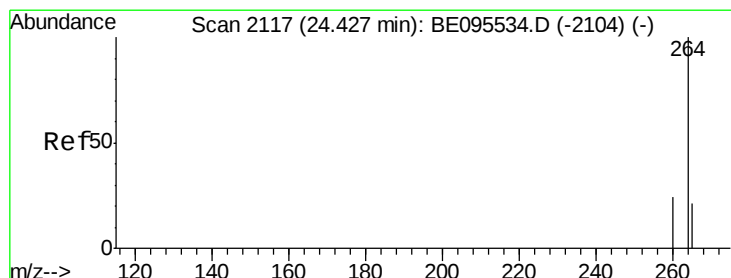
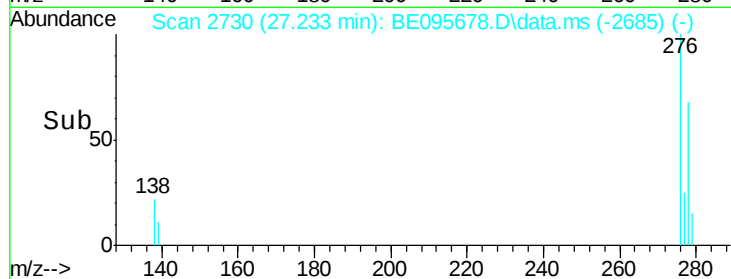
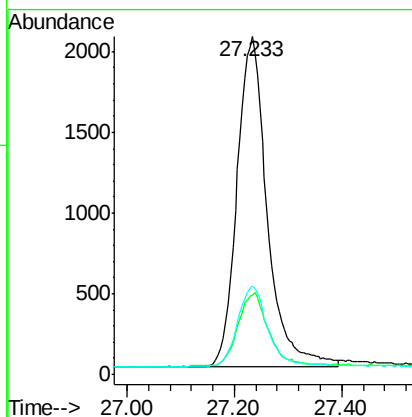
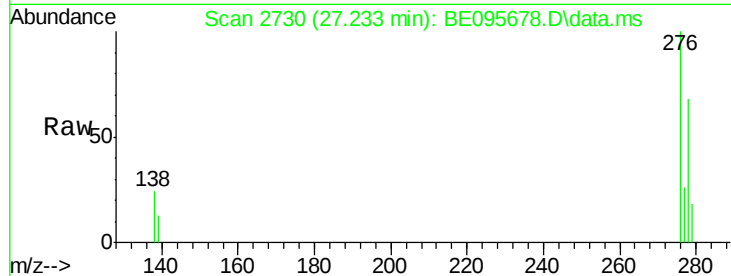




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.39 ng
 RT: 27.233 min Scan# 2731
 Delta R.T. 0.005 min
 Lab File: BE095678.D
 Acq: 23 Feb 2018 12:08

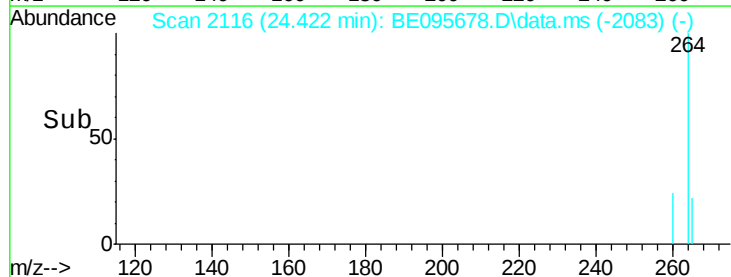
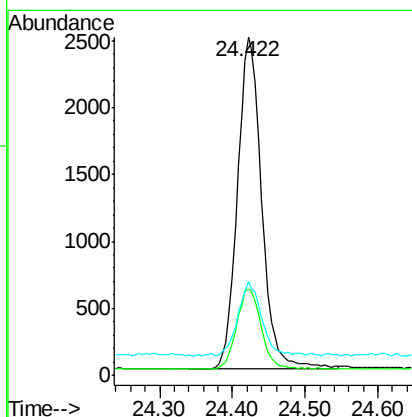
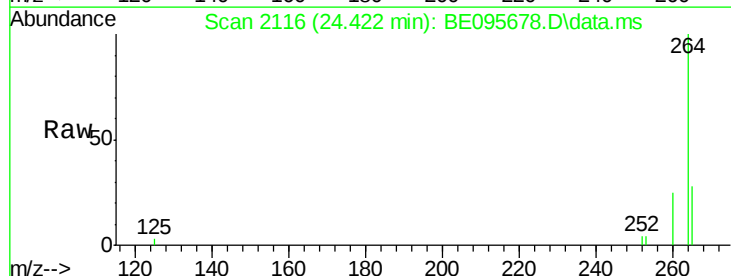
Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:276 Resp: 8013
 Ion Ratio Lower Upper
 276 100
 138 22.1 22.5 33.7#
 277 24.8 19.9 29.9



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 24.422 min Scan# 2116
 Delta R.T. 0.000 min
 Lab File: BE095678.D
 Acq: 23 Feb 2018 12:08

Tgt Ion:264 Resp: 5754
 Ion Ratio Lower Upper
 264 100
 260 25.3 20.5 30.7
 265 27.7 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.39 ng

RT: 23.607 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

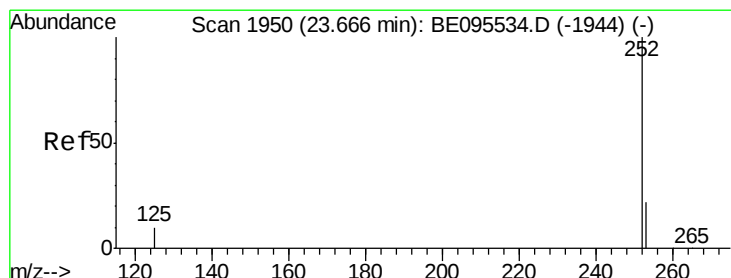
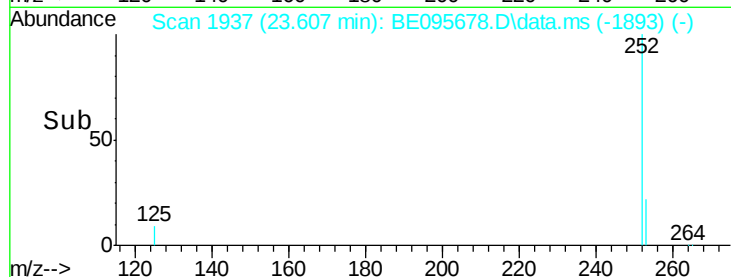
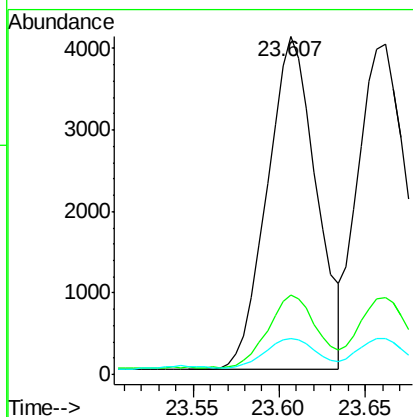
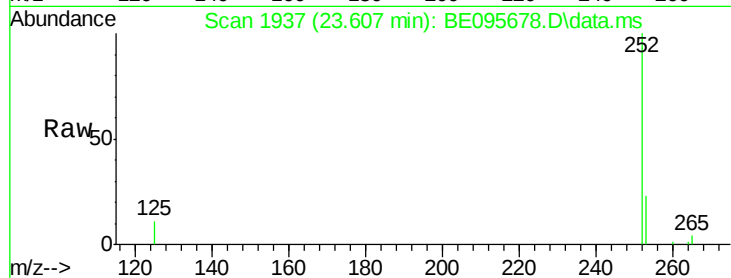
Tot Ion:252 Resp: 8090

Ion Ratio Lower Upper

252 100

253 23.5 20.0 30.0

125 10.7 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.40 ng

RT: 23.661 min Scan# 1949

Delta R.T. 0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

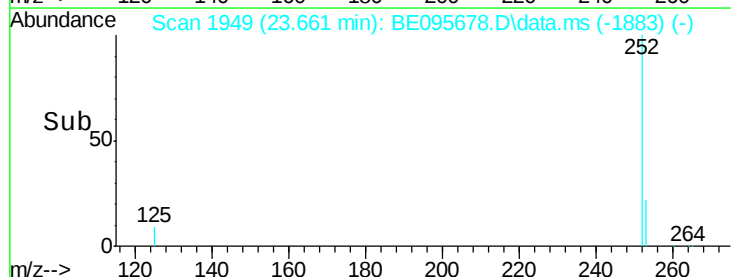
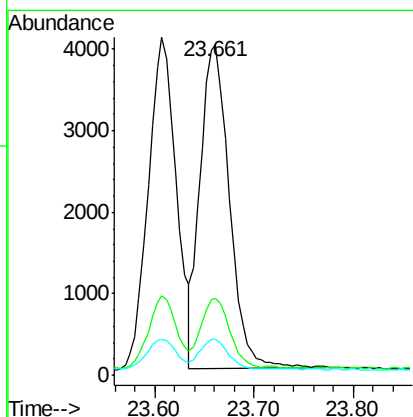
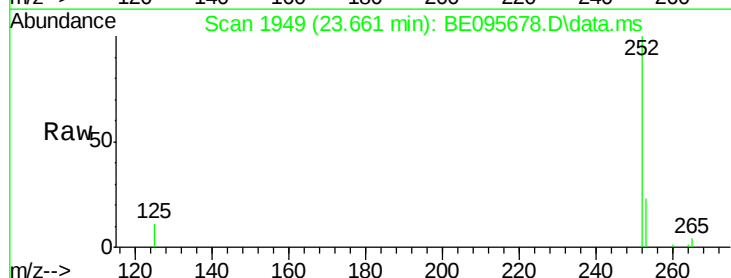
Tgt Ion:252 Resp: 8098

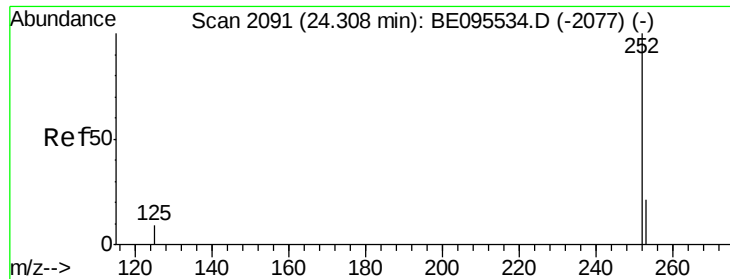
Ion Ratio Lower Upper

252 100

253 23.4 16.0 24.0

125 10.9 8.0 12.0





#37

Benzo(a)pyrene

Concen: 0.39 ng

RT: 24.304 min Scan# 2091

Delta R.T. 0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :

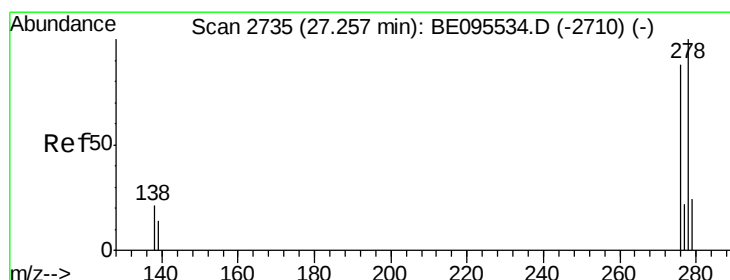
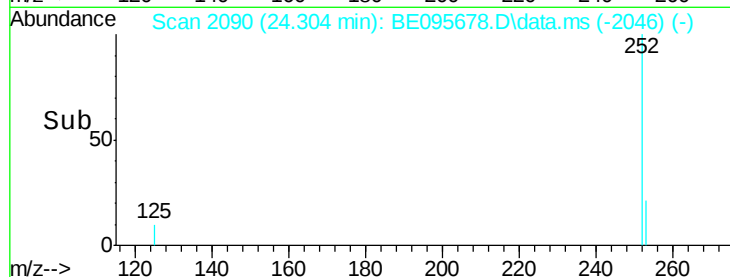
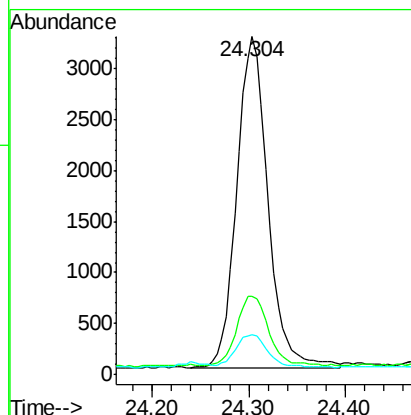
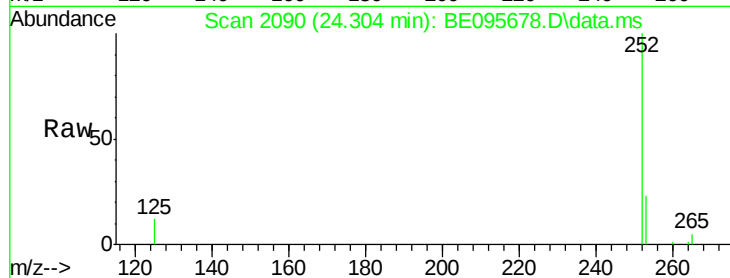
Tot Ion:252 Resp: 7258

Ion Ratio Lower Upper

252 100

253 23.3 16.0 24.0

125 11.7 12.0 18.0#



#38

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 27.247 min Scan# 2733

Delta R.T. -0.000 min

Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

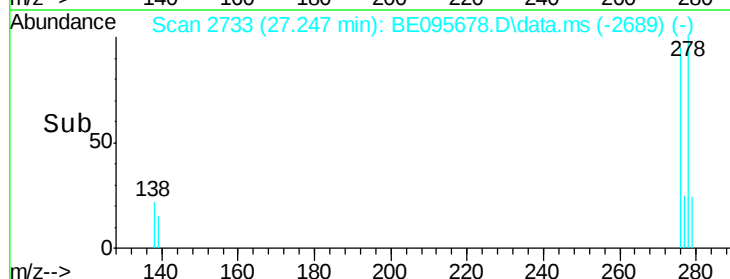
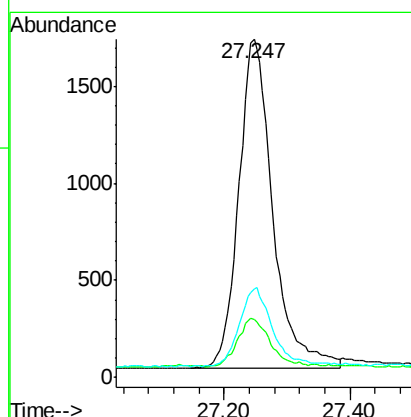
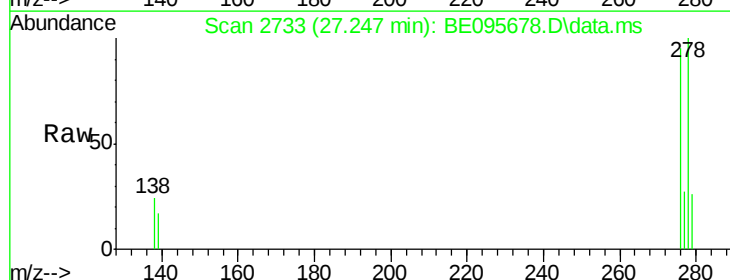
Tgt Ion:278 Resp: 6364

Ion Ratio Lower Upper

278 100

139 17.3 16.0 24.0

279 26.3 20.0 30.0





#39

Benzo(a,h,i)perylene

Concen: 0.39 ng

RT: 28.104 min Scan# 29

Delta R.T. 0.005 min

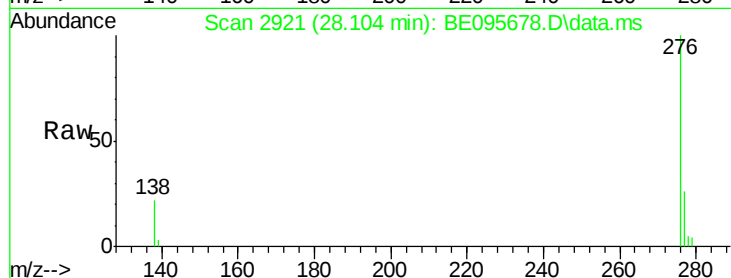
Lab File: BE095678.D

Acq: 23 Feb 2018 12:08

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 6866

Ion Ratio Lower Upper

276 100

277 26.1 16.0 24.0#

138 21.8 20.0 30.0

