

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020718\
 Data File : BE095547.D
 Acq On : 7 Feb 2018 10:49
 Operator : SJ/JU
 Sample : J1196-30DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 08 01:13:08 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	8.42	152	1147	0.40	ng	-0.01
7) Naphthalene-d8	11.28	136	4392	0.40	ng	0.00
13) Acenaphthene-d10	15.00	164	2603	0.40	ng	0.00
19) Phenanthrene-d10	17.71	188	6292	0.40	ng	0.00
27) Chrysene-d12	21.79	240	6306	0.40	ng	0.00
34) Perylene-d12	24.43	264	5661	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.92	112	285	0.08	ng	0.00
5) Phenol-d6	7.55	99	365	0.08	ng	-0.01
8) Nitrobenzene-d5	9.61	82	363	0.08	ng	0.00
11) 2-Methylnaphthalene-d10	12.80	152	621	0.09	ng	0.00
14) 2,4,6-Tribromophenol	16.47	330	64	0.05	ng	0.00
15) 2-Fluorobiphenyl	13.64	172	1040	0.09	ng	-0.02
25) Fluoranthene-d10	19.69	212	6638	0.08	ng	0.00
29) Terphenyl-d14	20.25	244	1398	0.10	ng	0.00

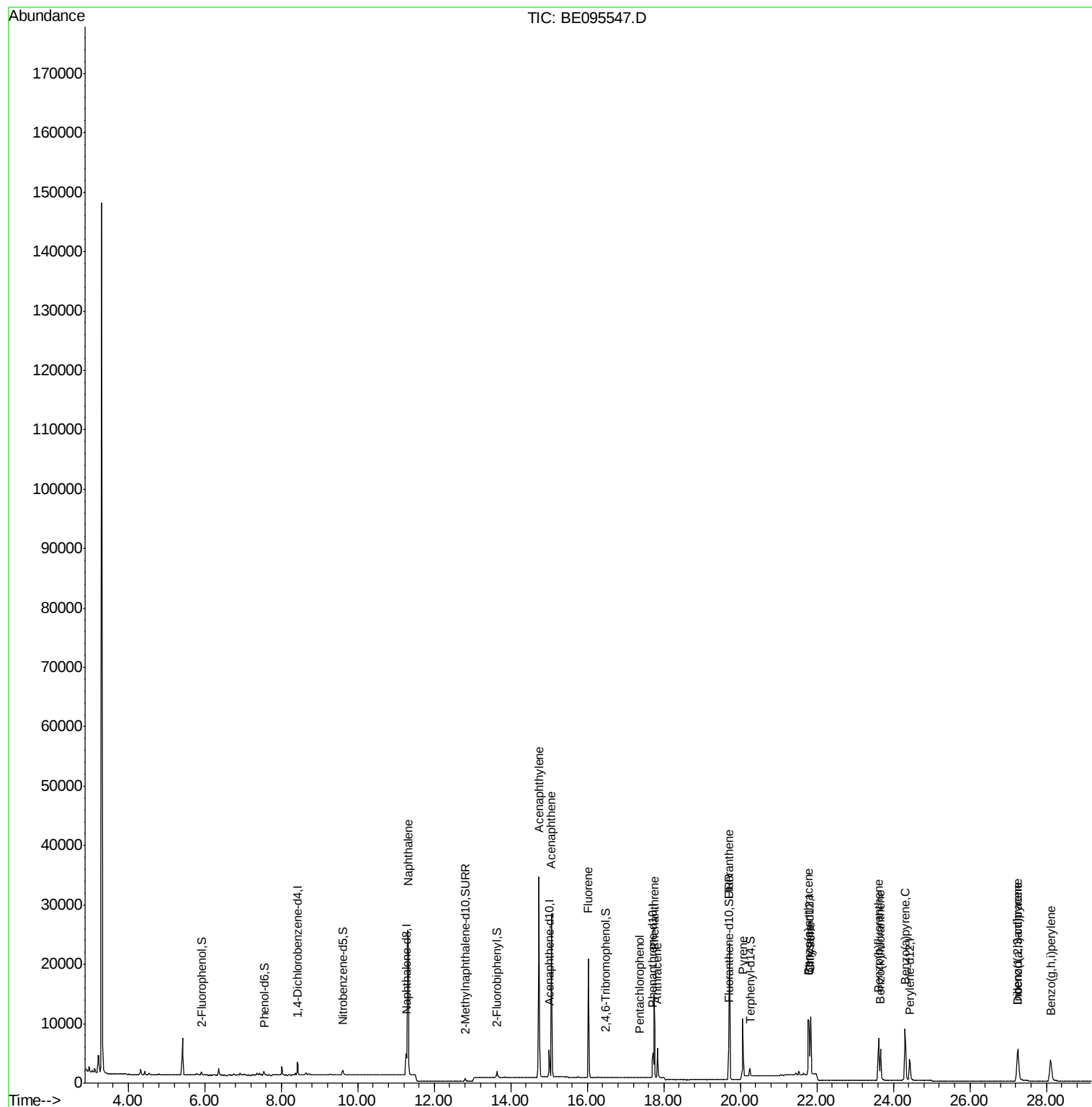
Target Compounds				Qvalue		
9) Naphthalene	11.31	128	45930	0.900	ng	99
16) Acenaphthylene	14.74	152	38523	2.595	ng	99
17) Acenaphthene	15.06	154	14061	1.524	ng	94
18) Fluorene	16.02	166	16368	1.411	ng	# 78
22) Pentachlorophenol	17.37	266	6	0.166	ng	91
23) Phenanthrene	17.74	178	15708	0.813	ng	98
24) Anthracene	17.83	178	5653	0.313	ng	# 95
26) Fluoranthene	19.71	202	21230	0.871	ng	97
28) Pyrene	20.06	202	10667	0.403	ng	97
30) Benzo(a)anthracene	21.78	228	8469	0.403	ng	98
31) Chrysene	21.84	228	8326	0.402	ng	99
33) Indeno(1,2,3-cd)pyrene	27.25	276	5594	0.280	ng	98
35) Benzo(b)fluoranthene	23.61	252	10934	0.566	ng	# 89
36) Benzo(k)fluoranthene	23.67	252	8315	0.419	ng	95
37) Benzo(a)pyrene	24.31	252	15962	0.889	ng	# 93
38) Dibenzo(a,h)anthracene	27.26	278	9561	0.608	ng	97
39) Benzo(a,h,i)perylene	28.11	276	10183	0.603	ng	# 92

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

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QLast Update : Tue Feb 06 20:27:34 2018
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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.42 min Scan# 442

Delta R.T. -0.01 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampled :

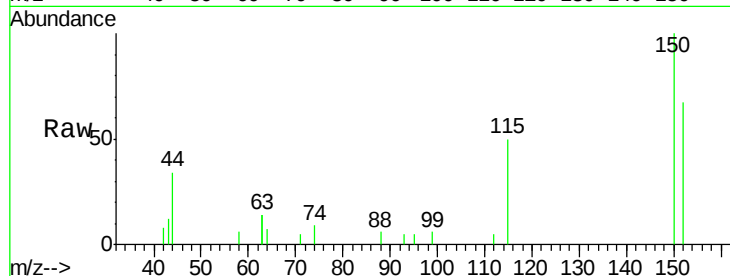
Tot Ion:152 Resp: 1147

Ion Ratio Lower Upper

152 100

150 150.0 117.2 175.8

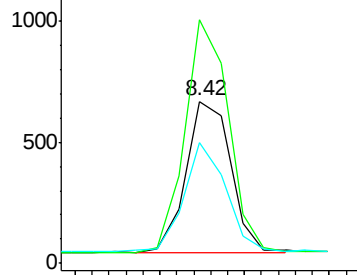
115 74.5 57.0 85.6



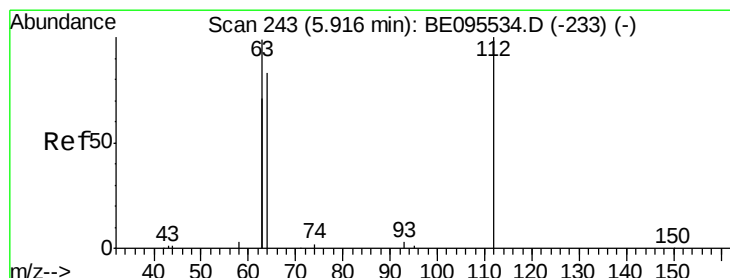
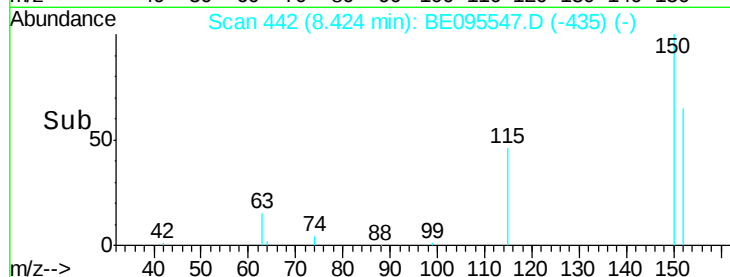
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time--> 8.35 8.40 8.45 8.50



#4

2-Fluorophenol

Concen: 0.082 ng

RT: 5.92 min Scan# 243

Delta R.T. 0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

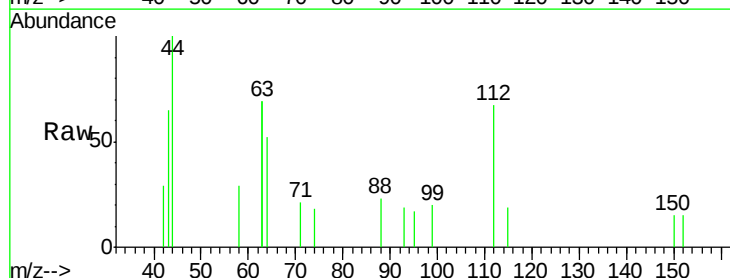
Tgt Ion:112 Resp: 285

Ion Ratio Lower Upper

112 100

64 76.5 60.1 90.1

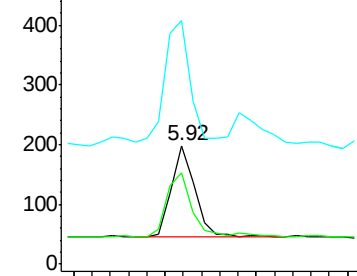
63 145.6 116.8 175.2



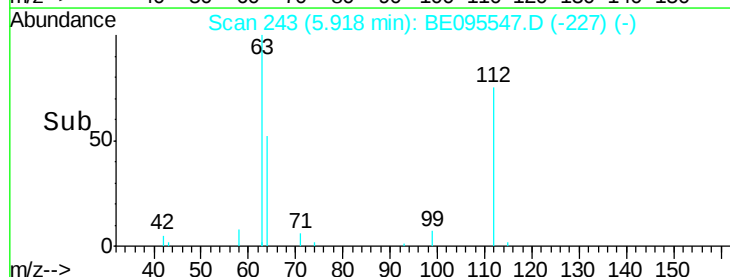
Abundance Ion 112.00 (111.70 to 112.70): E

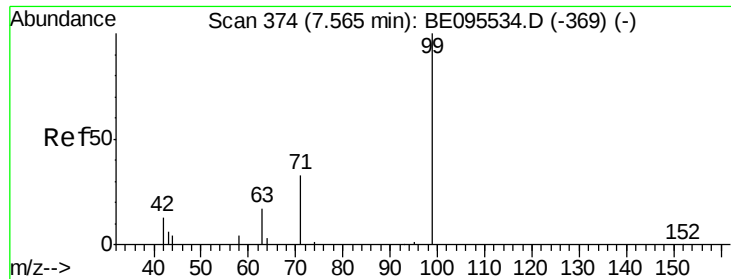
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time--> 5.80 5.90 6.00





#5

Phenol-d6

Concen: 0.076 ng

RT: 7.55 min Scan# 373

Delta R.T. -0.01 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :

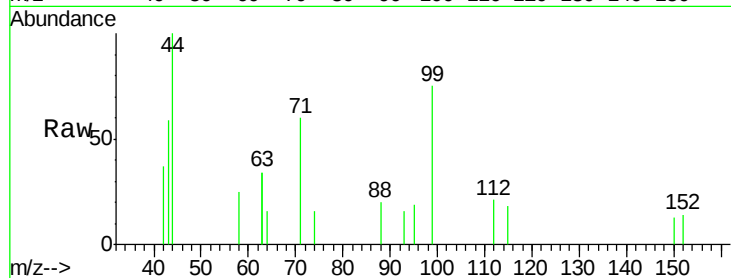
Tot Ion: 99 Resp: 365

Ion Ratio Lower Upper

99 100

42 38.4 20.2 30.2#

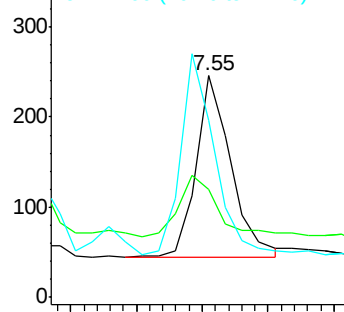
71 108.2 28.4 42.6#



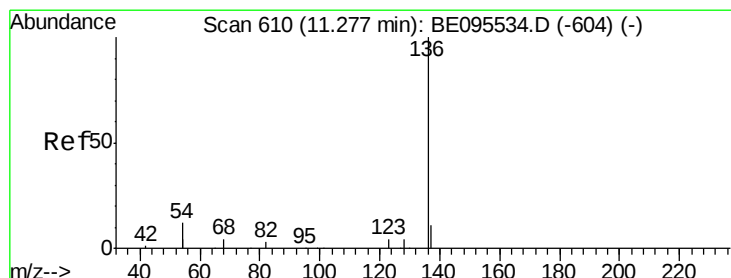
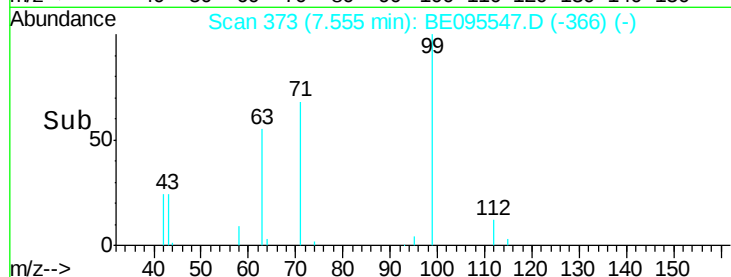
Abundance Ion 99.00 (98.70 to 99.70): BE0

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: BE095547.D

Acq: 7 Feb 2018 10:49

Tgt Ion: 136 Resp: 4392

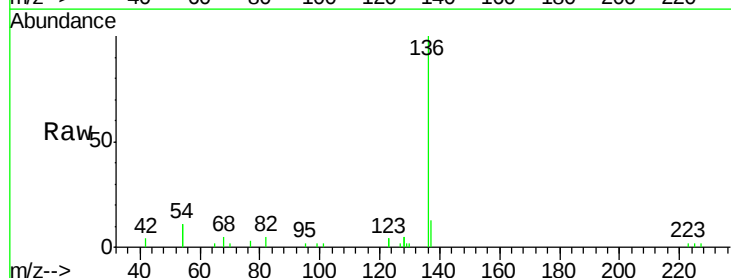
Ion Ratio Lower Upper

136 100

137 13.0 9.5 14.3

54 22.1 29.1 43.7#

68 5.2 6.2 9.2#

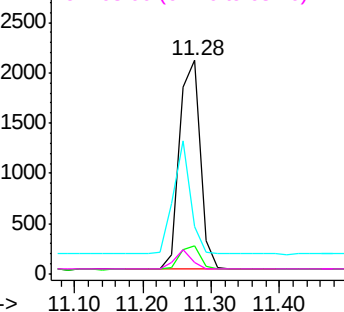


Abundance Ion 136.00 (135.70 to 136.70): E

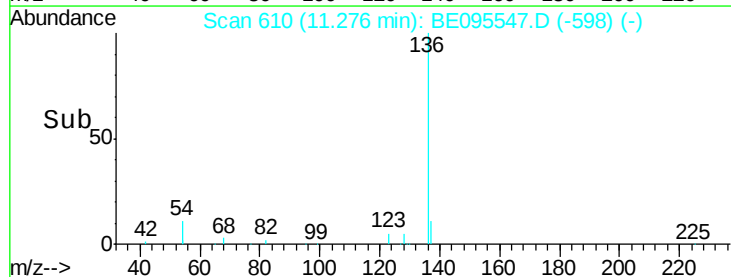
Ion 137.00 (136.70 to 137.70): E

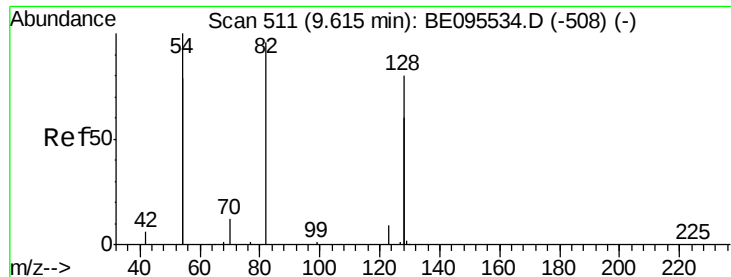
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->





#8

Nitrobenzene-d5

Concen: 0.078 ng

RT: 9.61 min Scan# 511

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :

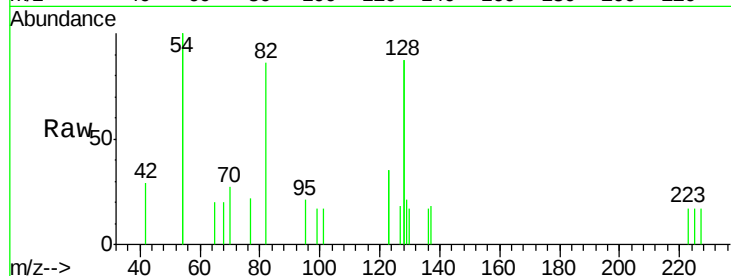
Tot Ion: 82 Resp: 363

Ion Ratio Lower Upper

82 100

128 200.9 150.0 225.0

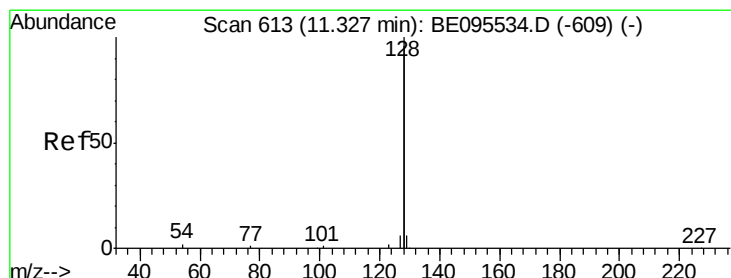
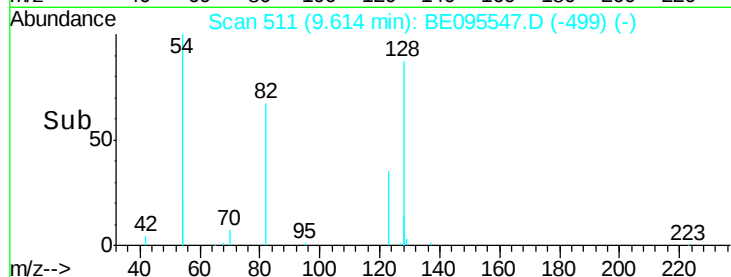
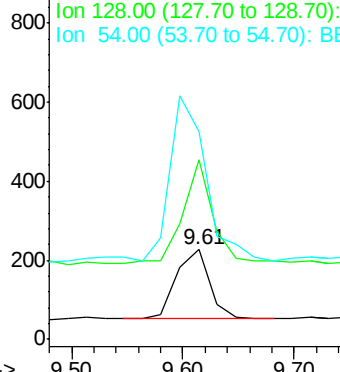
54 231.7 154.2 231.4#



Abundance Ion 82.00 (81.70 to 82.70): BE095547.D (-499) (-)

Ion 128.00 (127.70 to 128.70): BE095547.D (-499) (-)

Ion 54.00 (53.70 to 54.70): BE095547.D (-499) (-)



#9

Naphthalene

Concen: 0.900 ng

RT: 11.31 min Scan# 612

Delta R.T. -0.02 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

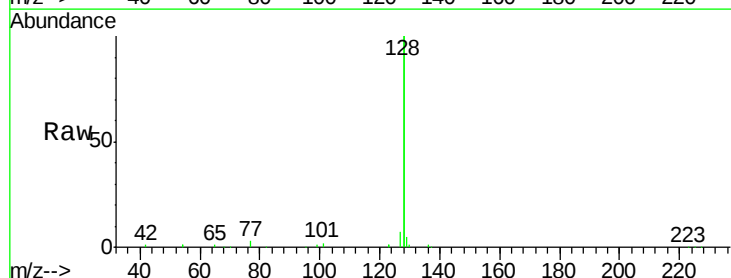
Tgt Ion: 128 Resp: 45930

Ion Ratio Lower Upper

128 100

129 2.7 2.6 3.8

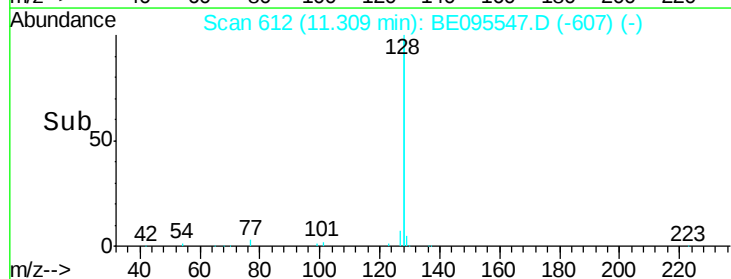
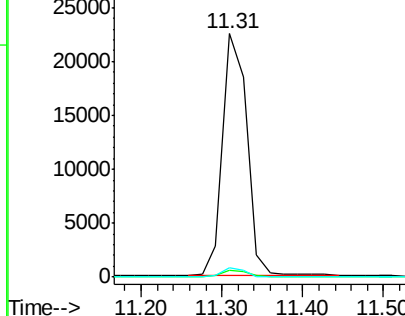
127 3.6 2.8 4.2

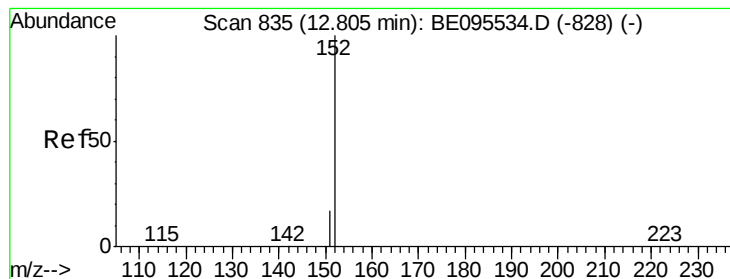


Abundance Ion 128.00 (127.70 to 128.70): BE095547.D (-607) (-)

Ion 129.00 (128.70 to 129.70): BE095547.D (-607) (-)

Ion 127.00 (126.70 to 127.70): BE095547.D (-607) (-)





#11

2-Methylnaphthalene-d10

Concen: 0.085 ng

RT: 12.80 min Scan# 835

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

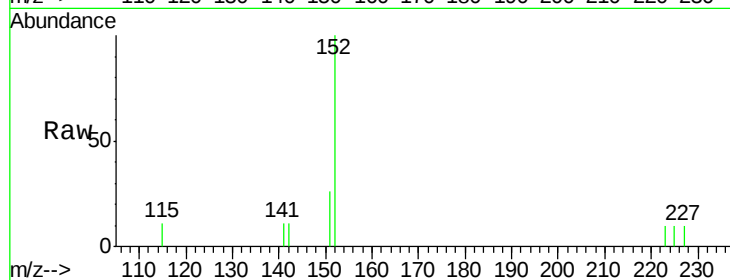
ClientSampleId :

Tot Ion:152 Resp: 621

Ion Ratio Lower Upper

152 100

151 20.8 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.80

400

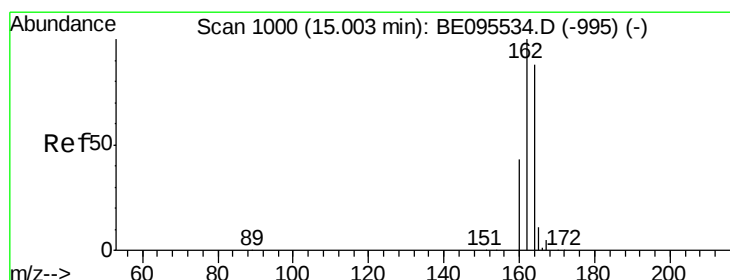
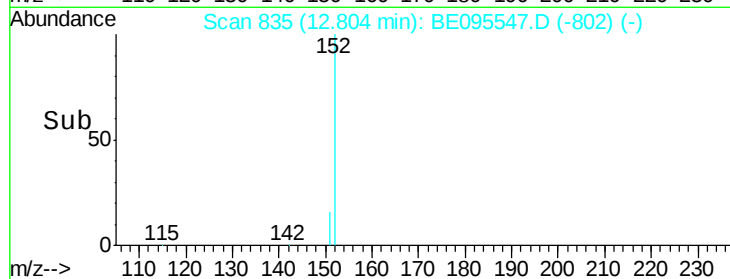
300

200

100

0

Time--> 12.70 12.80 12.90



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.00 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

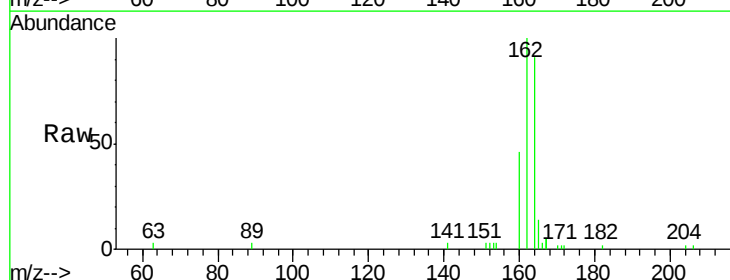
Tgt Ion:164 Resp: 2603

Ion Ratio Lower Upper

164 100

162 109.6 83.1 124.7

160 50.9 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

2500

2000

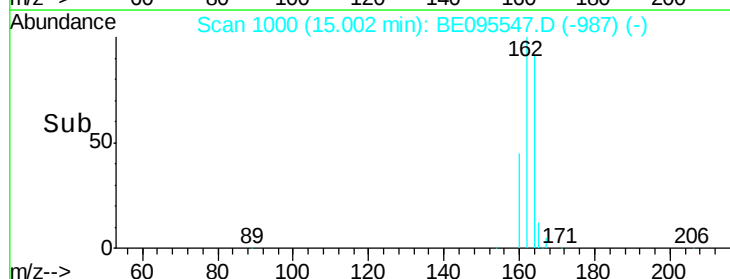
1500

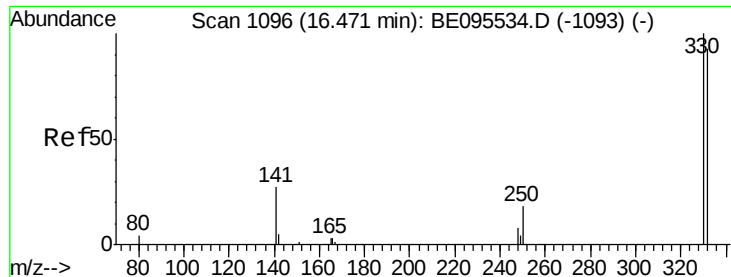
1000

500

0

Time--> 14.90 15.00 15.10





#14

2,4,6-Tribromophenol

Concen: 0.054 ng

RT: 16.47 min Scan# 1096

Delta R.T. 0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampled :

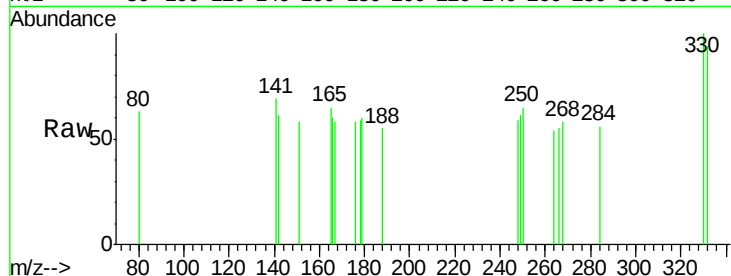
Tot Ion:330 Resp: 64

Ion Ratio Lower Upper

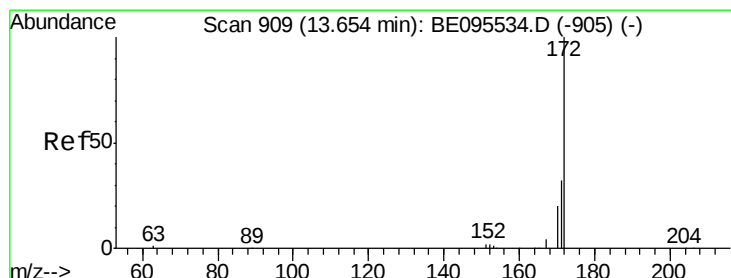
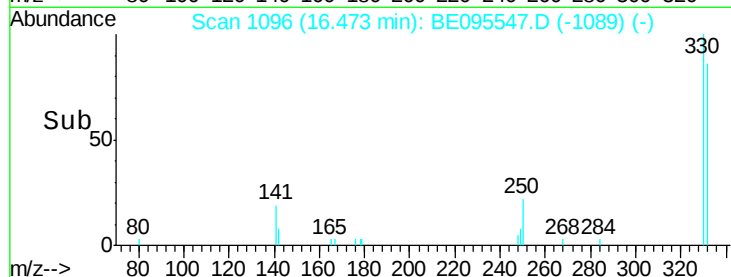
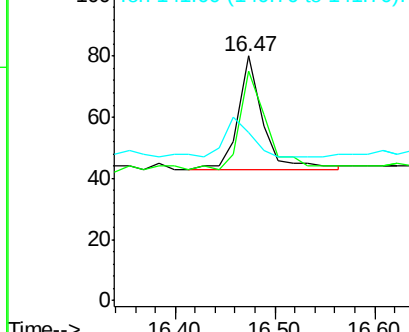
330 100

332 92.2 152.7 229.1#

141 35.9 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: 0.093 ng

RT: 13.64 min Scan# 908

Delta R.T. -0.02 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

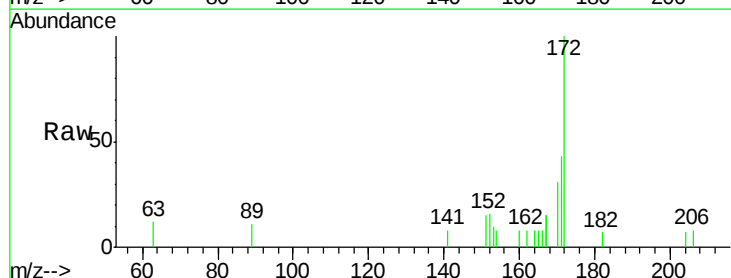
Tgt Ion:172 Resp: 1040

Ion Ratio Lower Upper

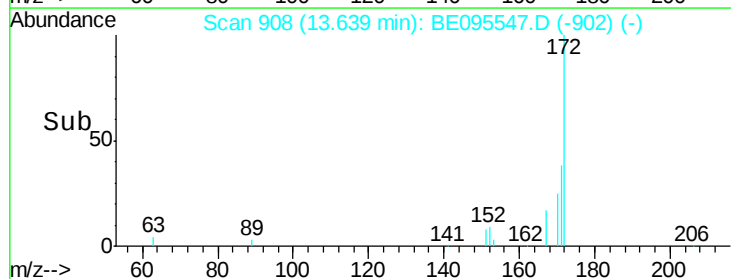
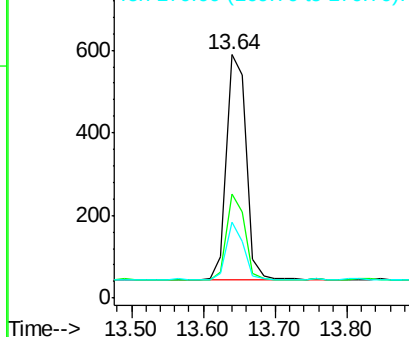
172 100

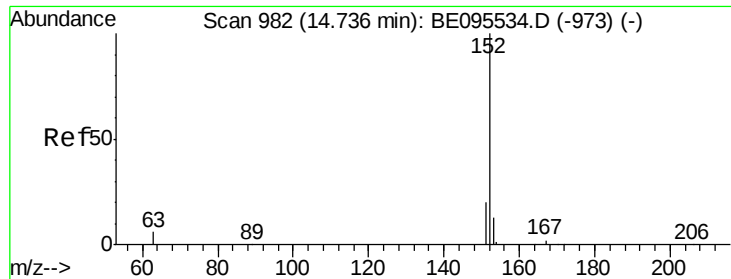
171 43.0 29.9 44.9

170 31.1 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

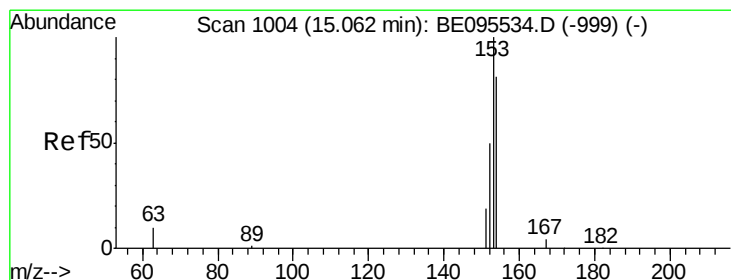
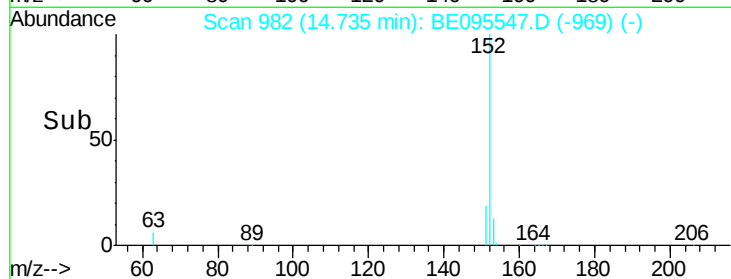
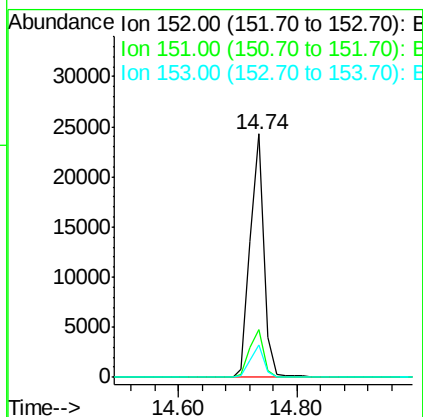
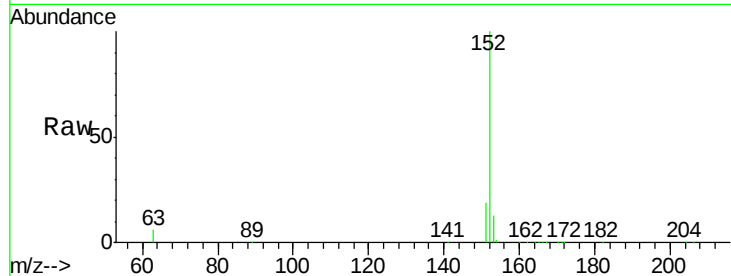




#16
Acenaphthylene
Concen: 2.595 ng
RT: 14.74 min Scan# 982
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

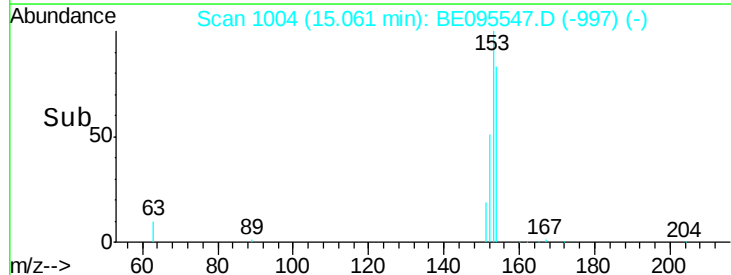
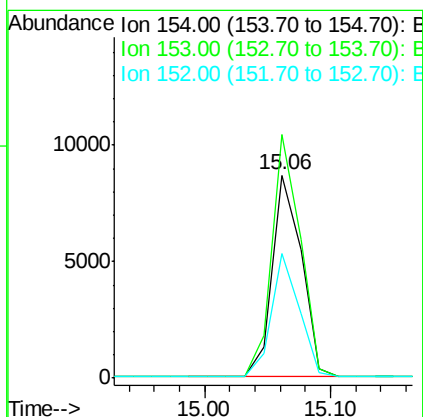
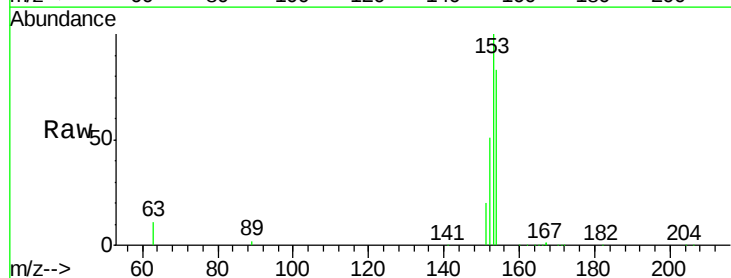
Instrument :
BNA_E
ClientSampleId :

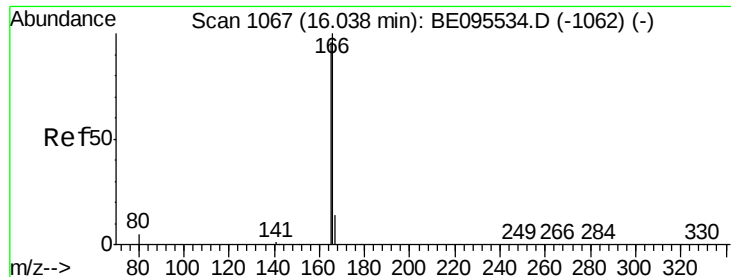
Tot Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	13.0	10.5	15.7



#17
Acenaphthene
Concen: 1.524 ng
RT: 15.06 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.2	89.2	133.8
152	58.4	42.0	63.0





#18

Fluorene

Concen: 1.411 ng

RT: 16.02 min Scan# 1066

Delta R.T. -0.01 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :

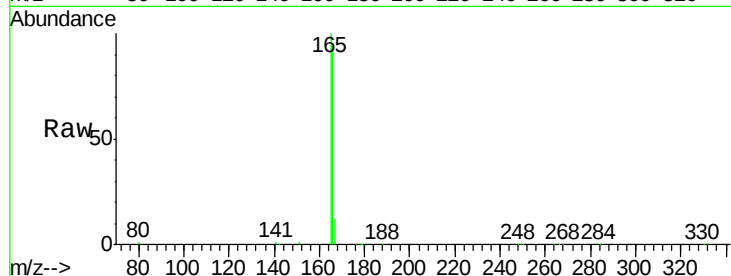
Tot Ion:166 Resp: 16368

Ion Ratio Lower Upper

166 100

165 100.7 77.8 116.6

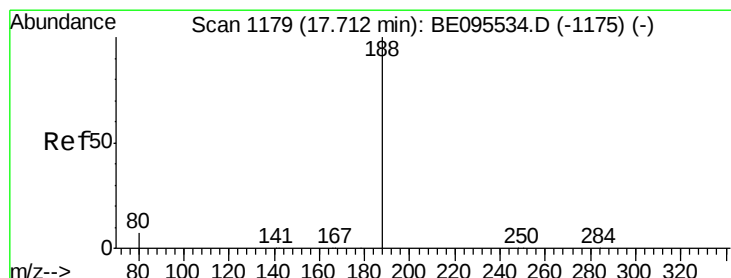
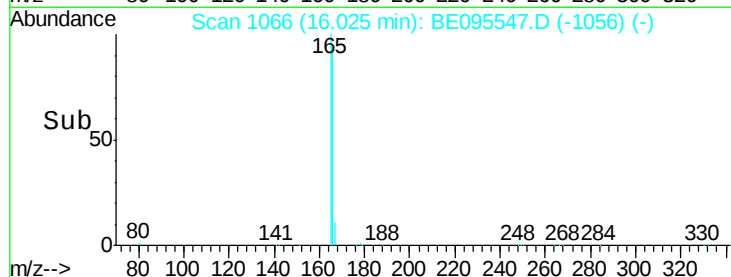
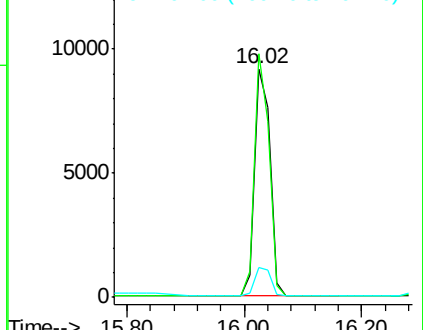
167 13.2 42.4 63.6#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.71 min Scan# 1179

Delta R.T. 0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

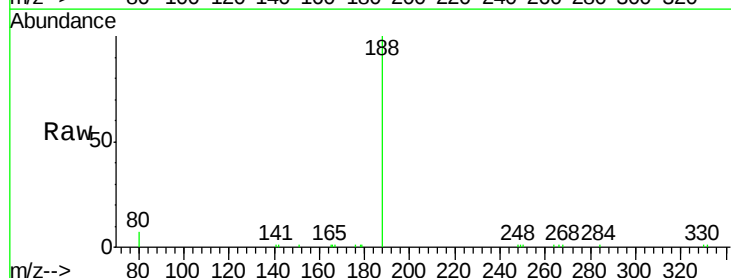
Tgt Ion:188 Resp: 6292

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

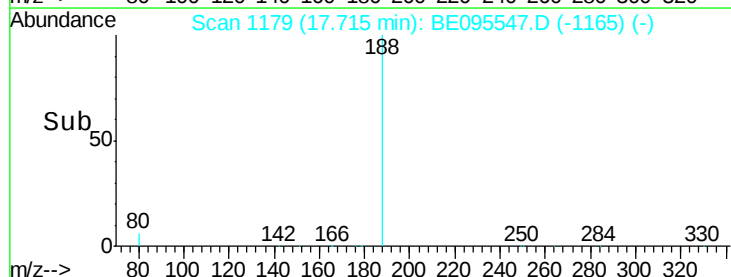
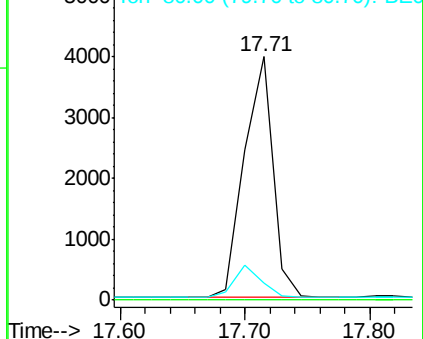
80 7.1 3.6 5.4#

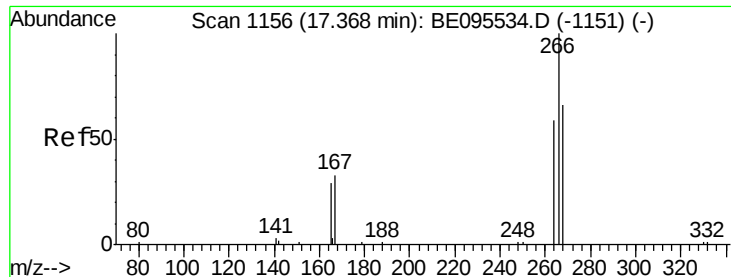


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



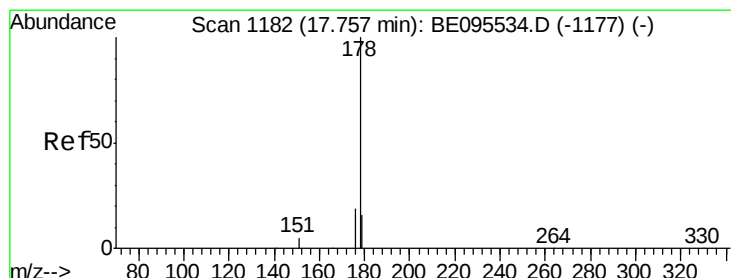
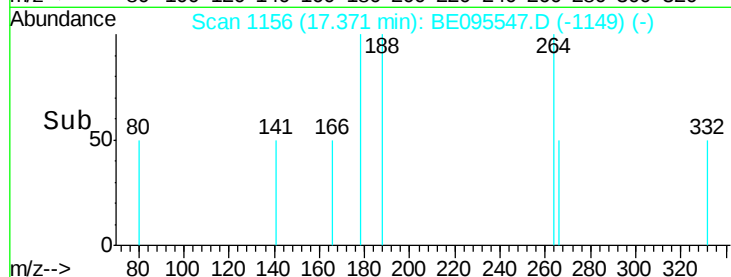
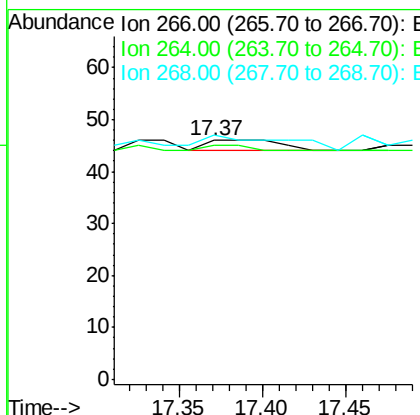
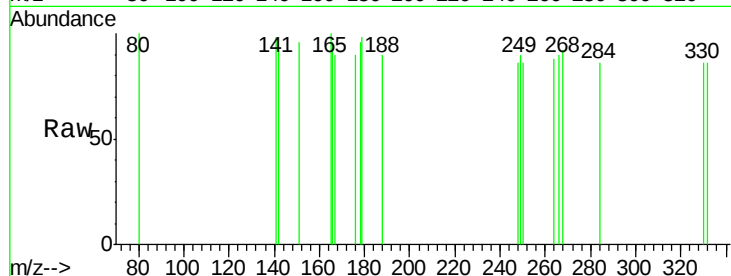


#22
 Pentachlorophenol
 Concen: 0.166 ng
 RT: 17.37 min Scan# 1156
 Delta R.T. 0.00 min
 Lab File: BE095547.D
 Acq: 7 Feb 2018 10:49

Instrument :
 BNA_E
 ClientSampled :

Tot Ion:266 Resp: 6

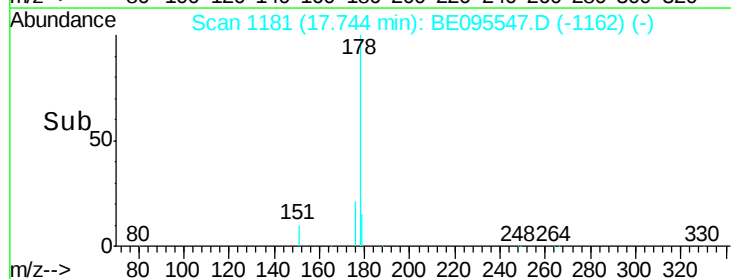
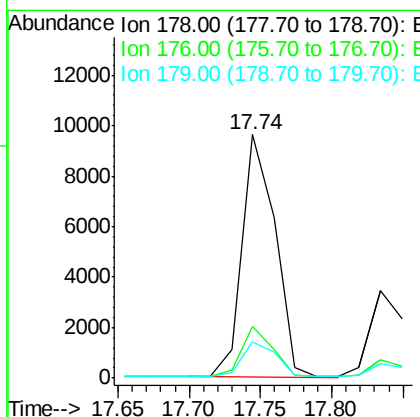
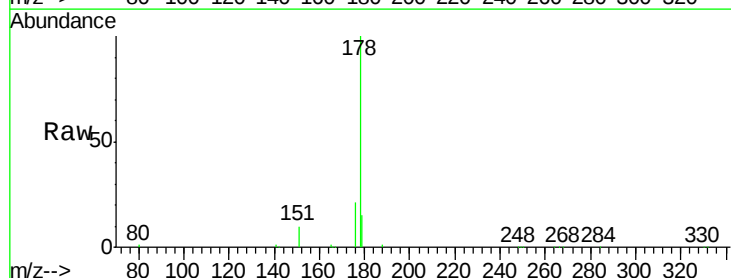
Ion	Ratio	Lower	Upper
266	100		
264	97.8	72.5	108.7
268	102.2	73.8	110.6

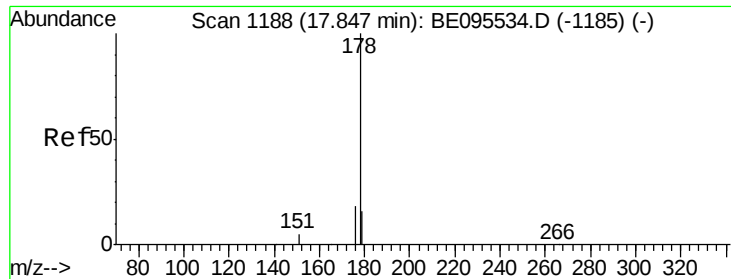


#23
 Phenanthrene
 Concen: 0.813 ng
 RT: 17.74 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: BE095547.D
 Acq: 7 Feb 2018 10:49

Tgt Ion:178 Resp: 15708

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.1	22.7
179	15.4	11.8	17.6





#24

Anthracene

Concen: 0.313 ng

RT: 17.83 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :

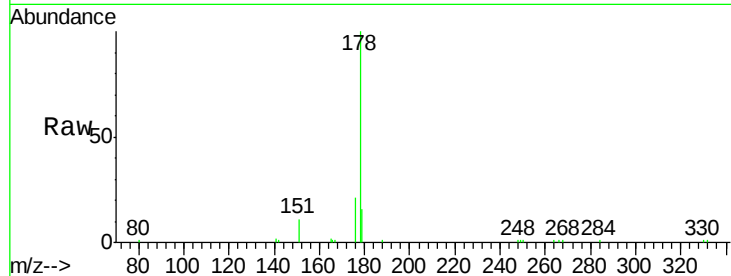
Tot Ion:178 Resp: 5653

Ion Ratio Lower Upper

178 100

176 19.2 12.8 19.2#

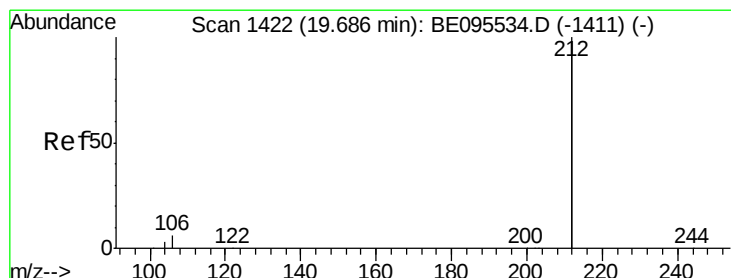
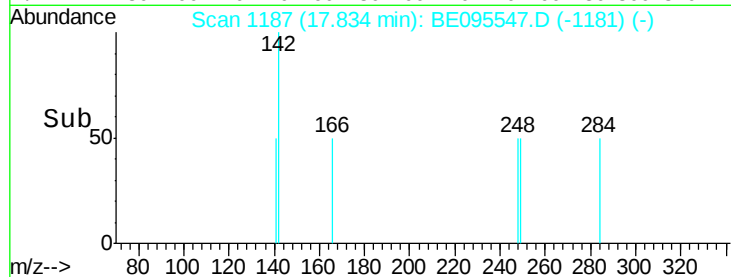
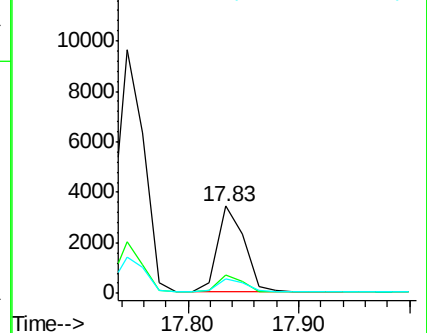
179 15.5 13.0 19.6



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: 0.080 ng

RT: 19.69 min Scan# 1423

Delta R.T. 0.01 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

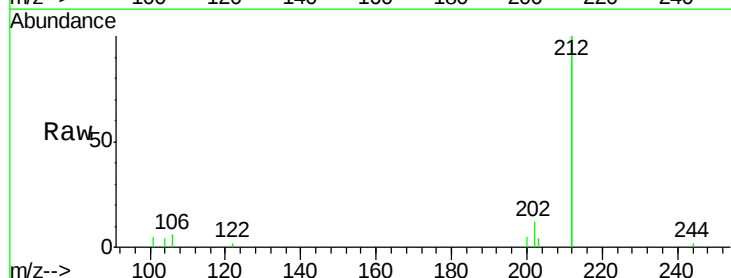
Tgt Ion:212 Resp: 6638

Ion Ratio Lower Upper

212 100

106 2.9 2.8 4.2

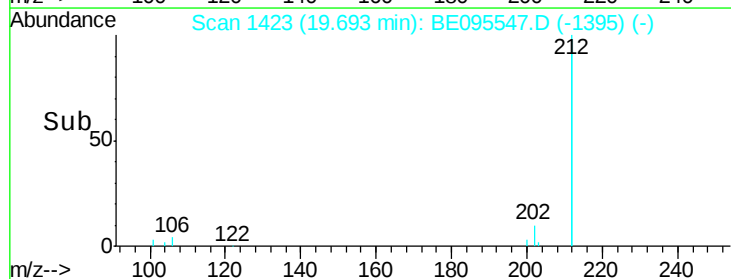
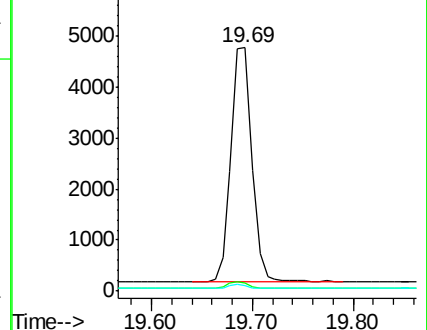
104 1.7 1.6 2.4

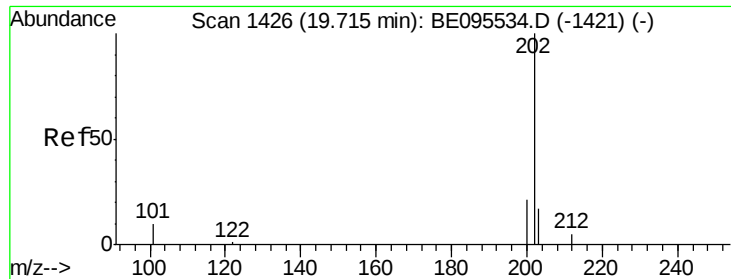


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

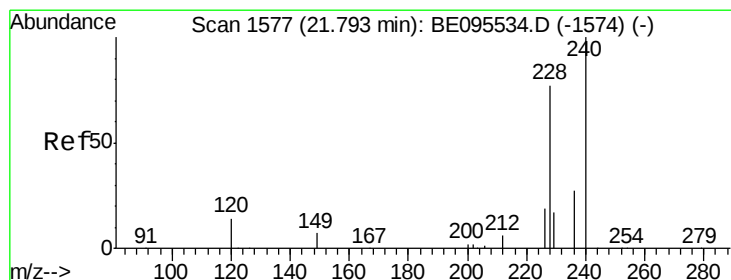
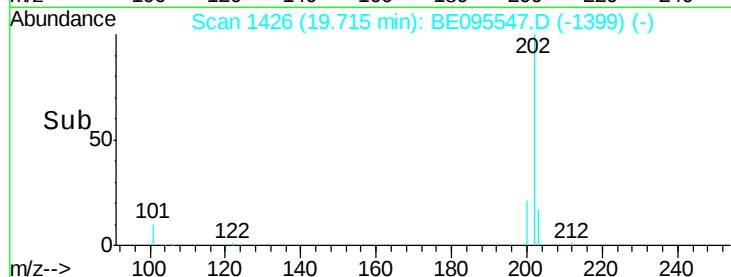
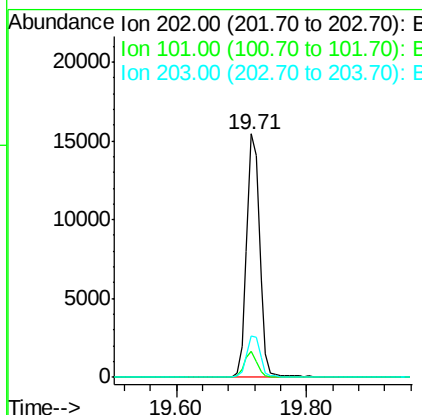
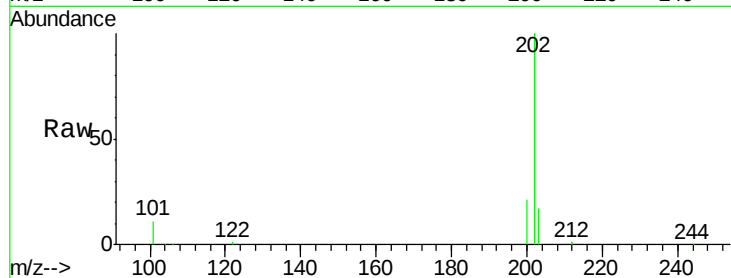




#26
Fluoranthene
Concen: 0.871 ng
RT: 19.71 min Scan# 1426
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

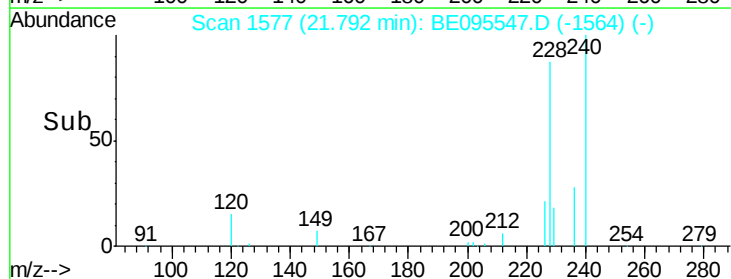
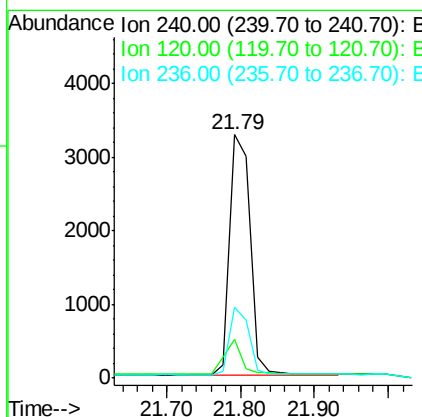
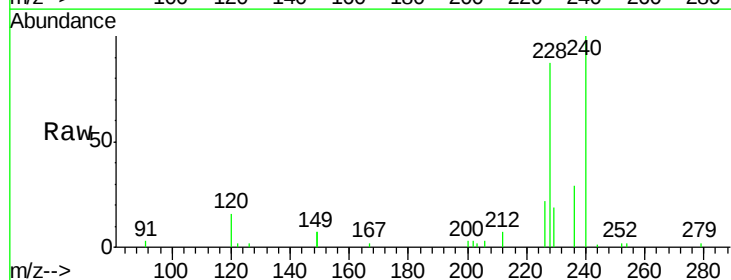
Instrument :
BNA_E
ClientSampleId :

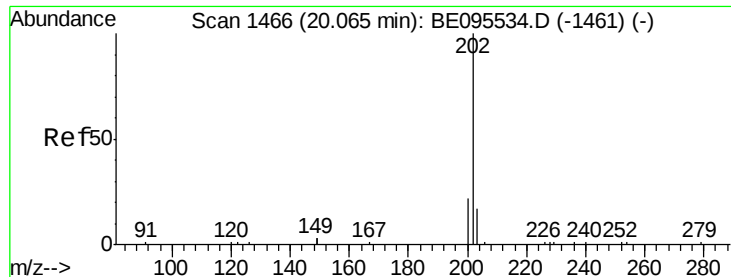
Tot Ion:202 Resp: 21230
Ion Ratio Lower Upper
202 100
101 10.0 9.8 14.8
203 17.2 13.7 20.5



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.79 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

Tgt Ion:240 Resp: 6306
Ion Ratio Lower Upper
240 100
120 16.2 5.5 8.3#
236 29.3 20.7 31.1

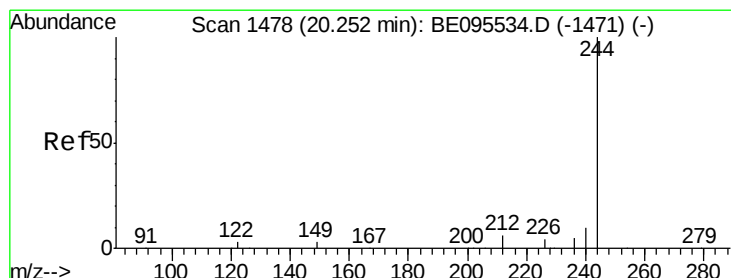
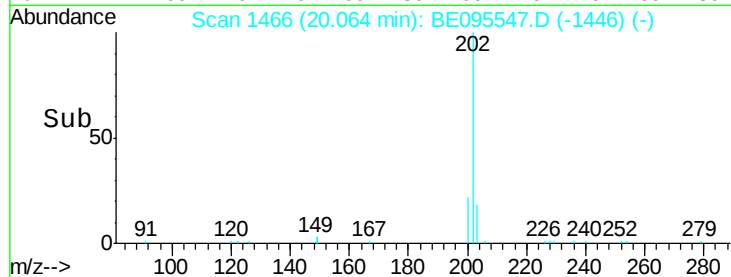
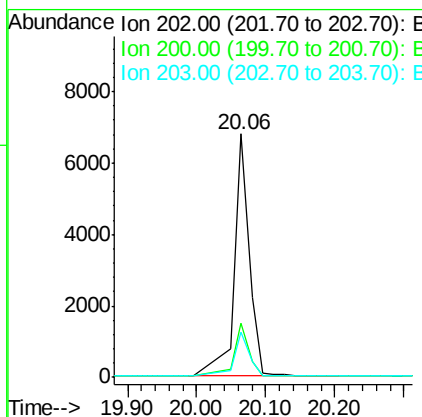
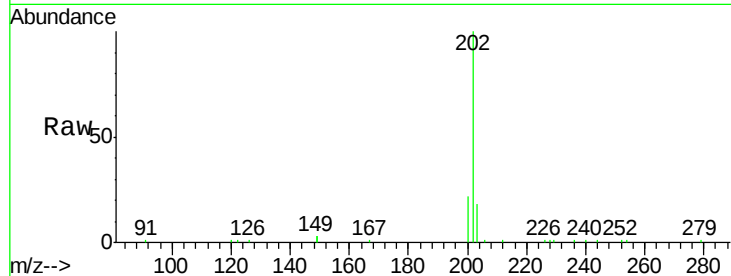




#28
Pvrene
Concen: 0.403 ng
RT: 20.06 min Scan# 1466
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

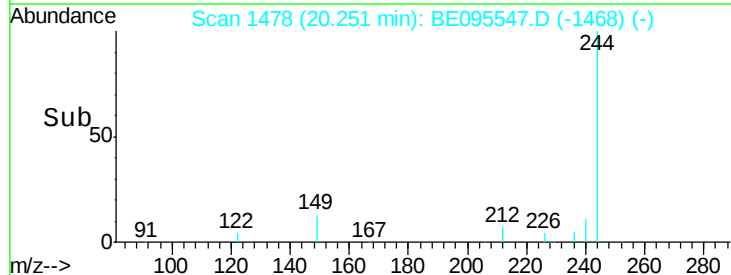
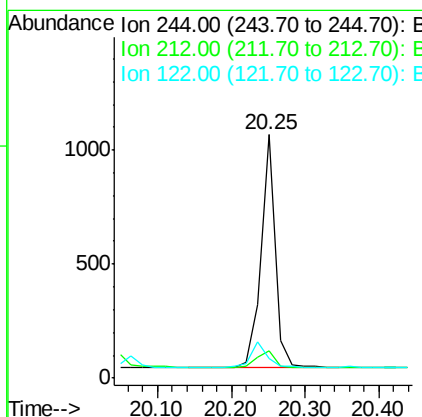
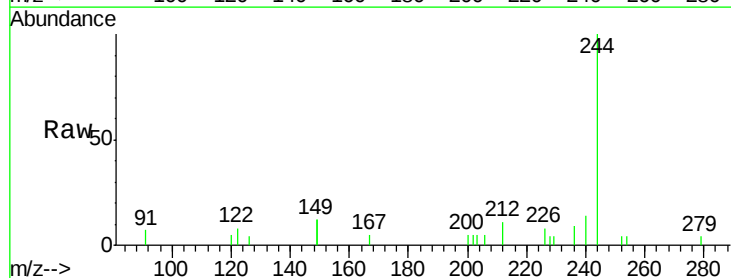
Instrument :
BNA_E
ClientSampled :

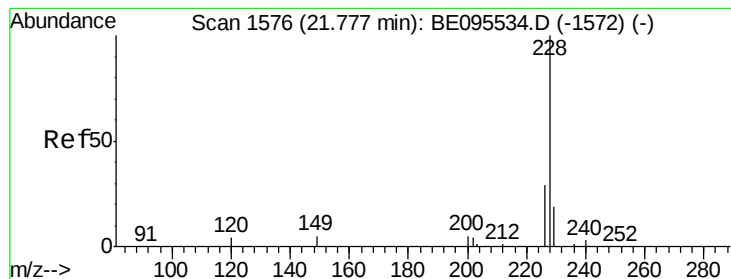
Tot Ion:202 Resp: 10667
Ion Ratio Lower Upper
202 100
200 18.9 16.6 25.0
203 16.4 13.8 20.8



#29
Terphenyl-d14
Concen: 0.104 ng
RT: 20.25 min Scan# 1478
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

Tgt Ion:244 Resp: 1398
Ion Ratio Lower Upper
244 100
212 11.3 25.4 38.0#
122 8.1 8.1 12.1#





#30

Benzo(a)anthracene

Concen: 0.403 ng

RT: 21.78 min Scan# 1576

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :

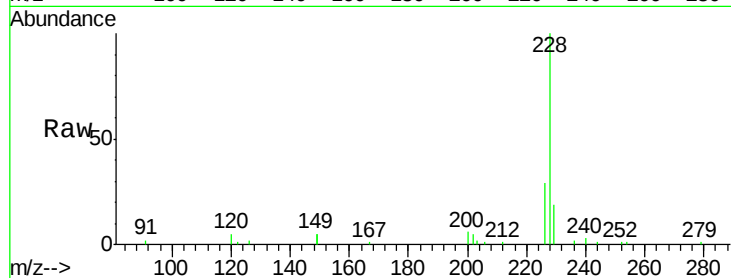
Tot Ion:228 Resp: 8469

Ion Ratio Lower Upper

228 100

226 28.9 24.0 36.0

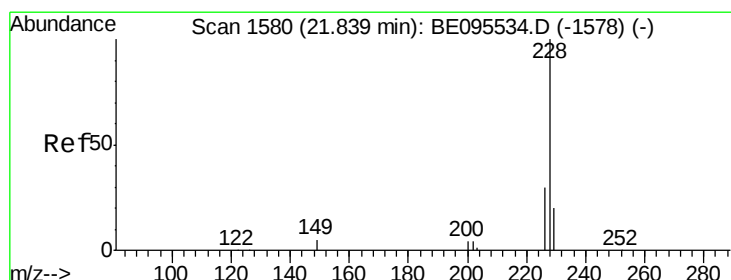
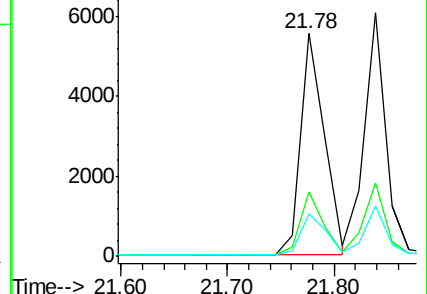
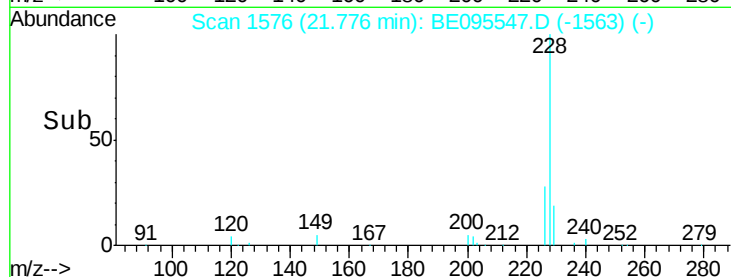
229 19.2 16.0 24.0



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: 0.402 ng

RT: 21.84 min Scan# 1580

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

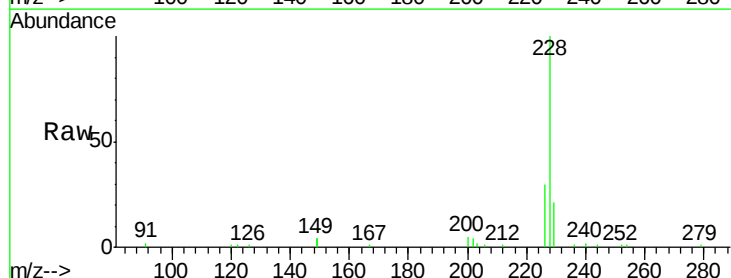
Tgt Ion:228 Resp: 8326

Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

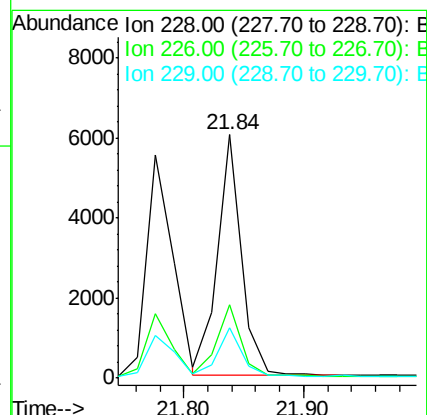
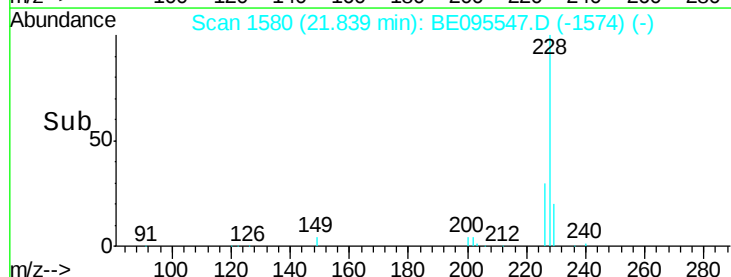
229 20.7 16.0 24.0

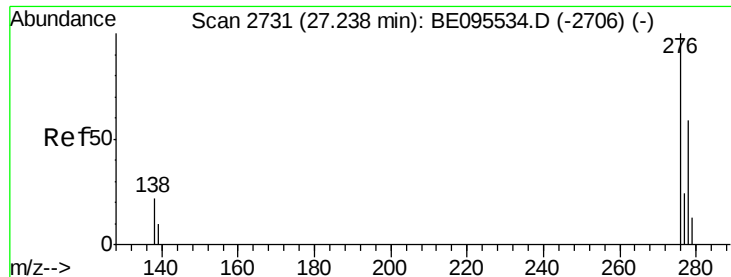


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

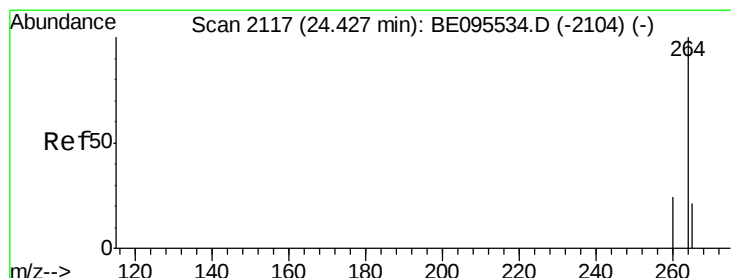
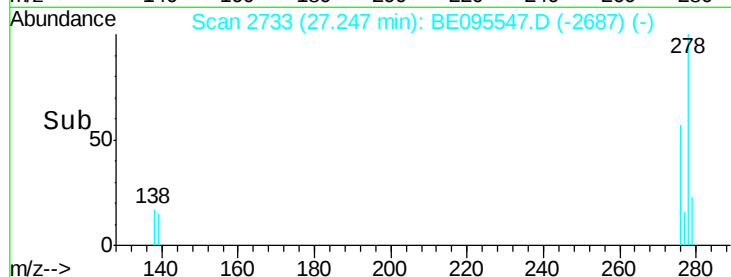
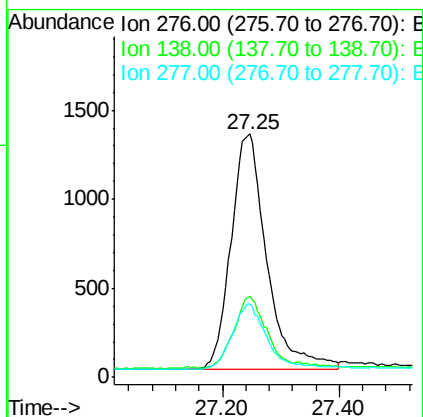
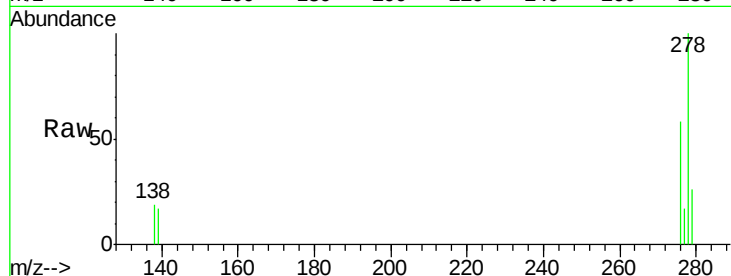




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.280 ng
 RT: 27.25 min Scan# 2733
 Delta R.T. 0.01 min
 Lab File: BE095547.D
 Acq: 7 Feb 2018 10:49

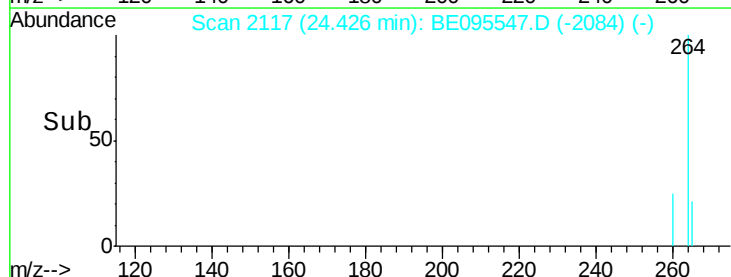
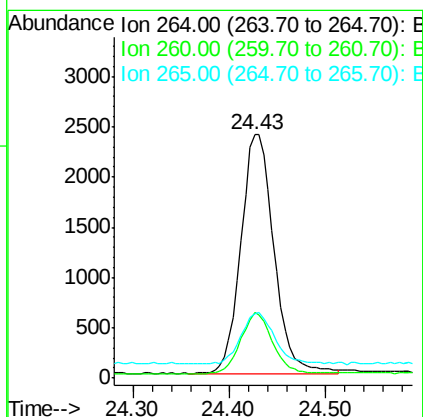
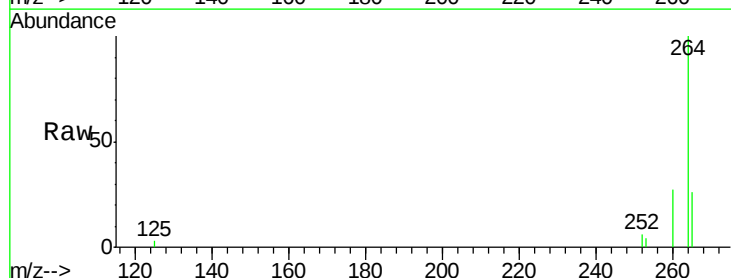
Instrument :
 BNA_E
 ClientSampleId :

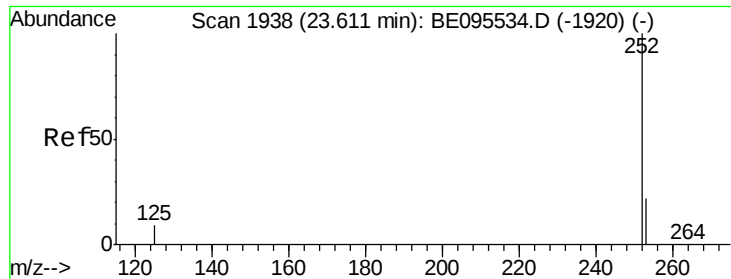
Tot Ion:276 Resp: 5594
 Ion Ratio Lower Upper
 276 100
 138 27.0 22.5 33.7
 277 25.9 19.9 29.9



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.43 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: BE095547.D
 Acq: 7 Feb 2018 10:49

Tgt Ion:264 Resp: 5661
 Ion Ratio Lower Upper
 264 100
 260 26.7 20.5 30.7
 265 26.3 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.566 ng

RT: 23.61 min Scan# 1938

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :

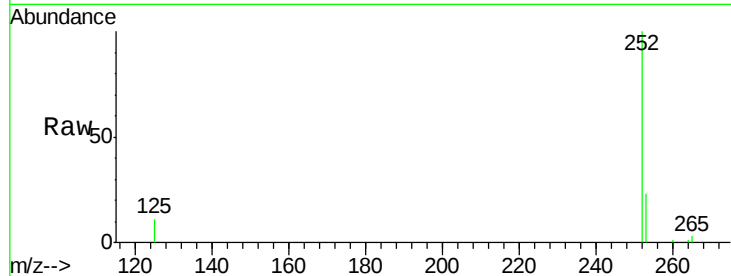
Tot Ion:252 Resp: 10934

Ion Ratio Lower Upper

252 100

253 23.1 20.0 30.0

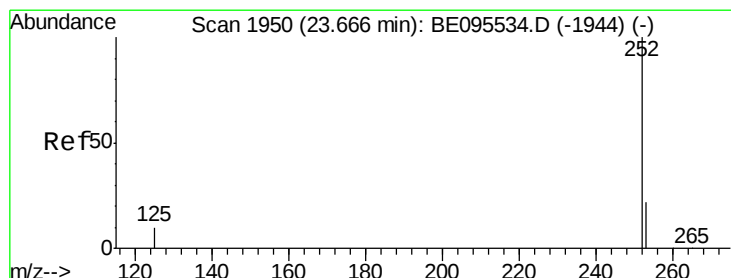
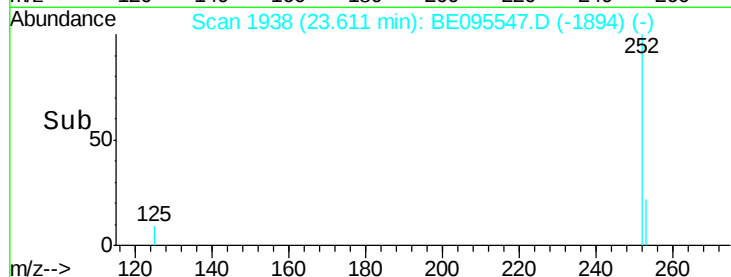
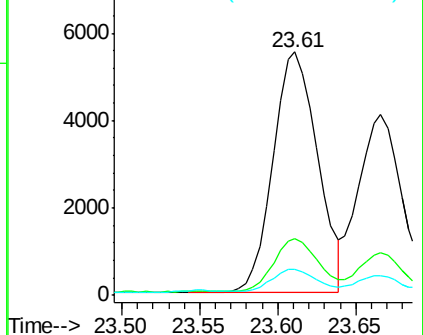
125 10.6 16.0 24.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#36

Benzo(k)fluoranthene

Concen: 0.419 ng

RT: 23.67 min Scan# 1950

Delta R.T. -0.00 min

Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

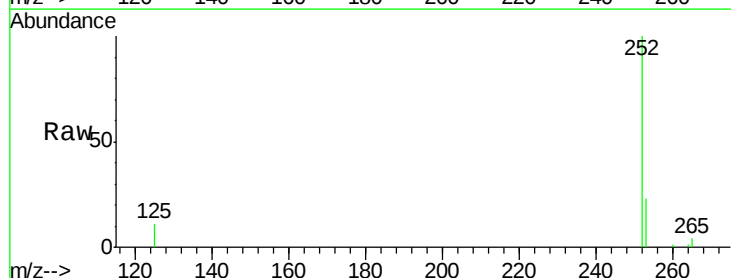
Tgt Ion:252 Resp: 8315

Ion Ratio Lower Upper

252 100

253 23.2 16.0 24.0

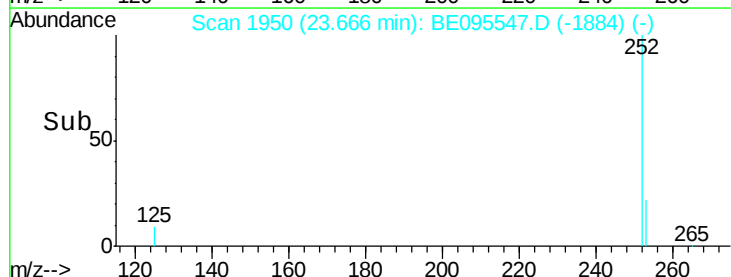
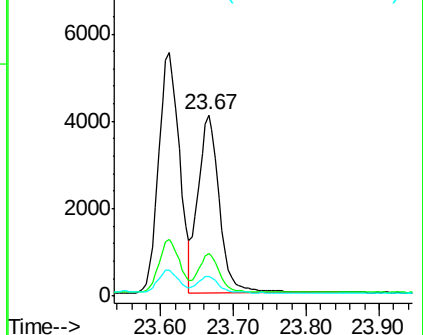
125 10.7 8.0 12.0

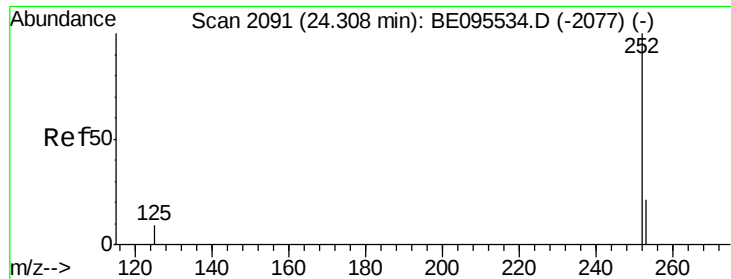


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

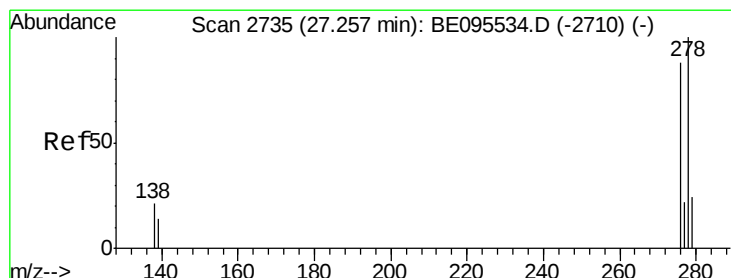
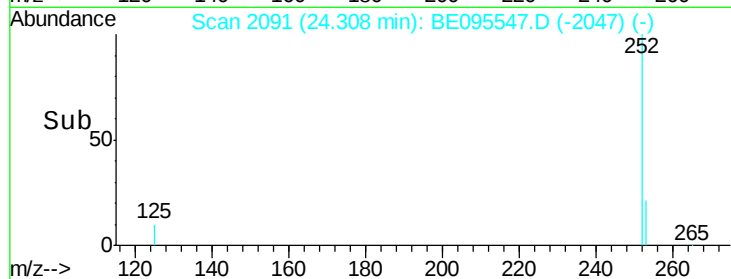
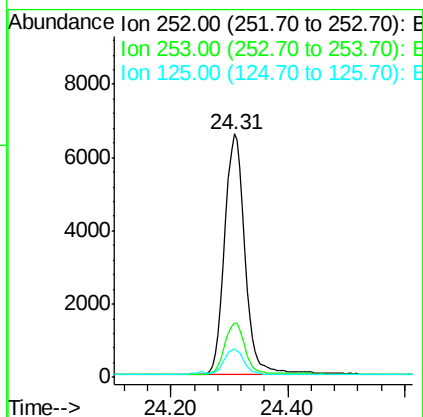
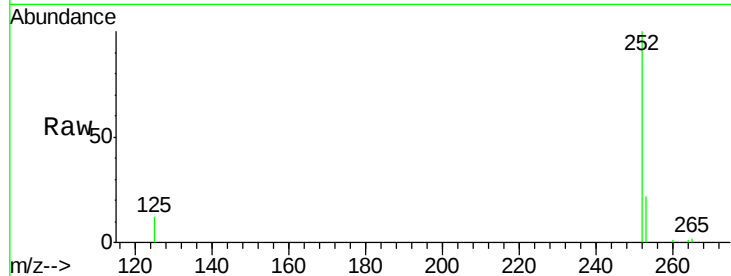




#37
Benzo(a)pyrene
Concen: 0.889 ng
RT: 24.31 min Scan# 2091
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

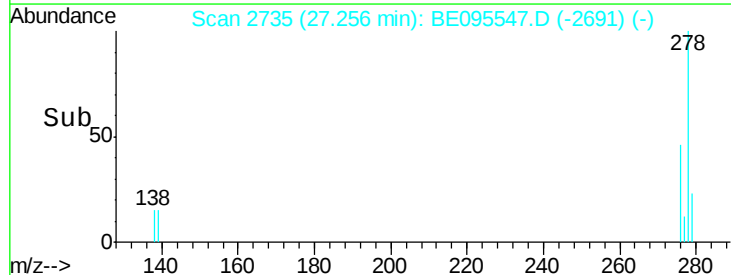
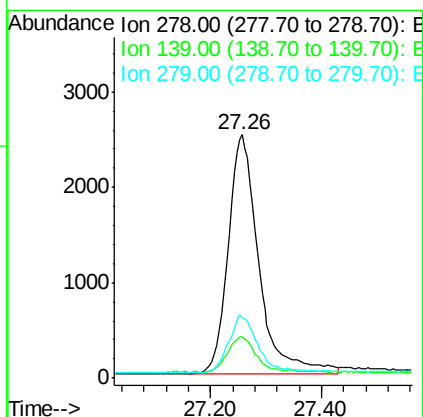
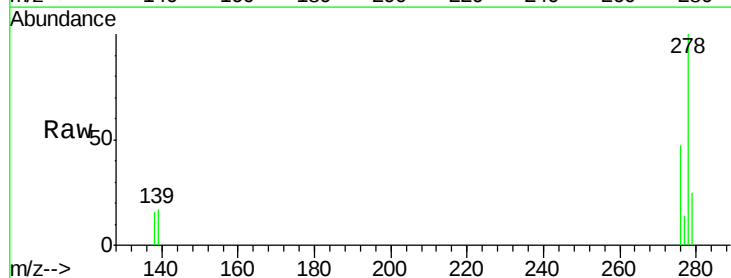
Instrument :
BNA_E
ClientSampleId :

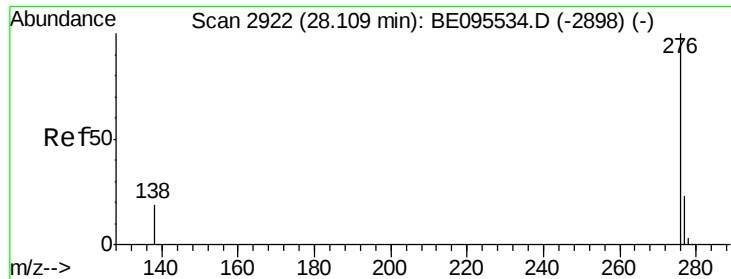
Tot Ion:252 Resp: 15962
Ion Ratio Lower Upper
252 100
253 22.5 16.0 24.0
125 11.5 12.0 18.0#



#38
Dibenzo(a,h)anthracene
Concen: 0.608 ng
RT: 27.26 min Scan# 2735
Delta R.T. -0.00 min
Lab File: BE095547.D
Acq: 7 Feb 2018 10:49

Tgt Ion:278 Resp: 9561
Ion Ratio Lower Upper
278 100
139 16.7 16.0 24.0
279 25.0 20.0 30.0





#39

Benzo(a,h,i)perylene

Concen: 0.603 ng

RT: 28.11 min Scan# 2922

Delta R.T. -0.00 min

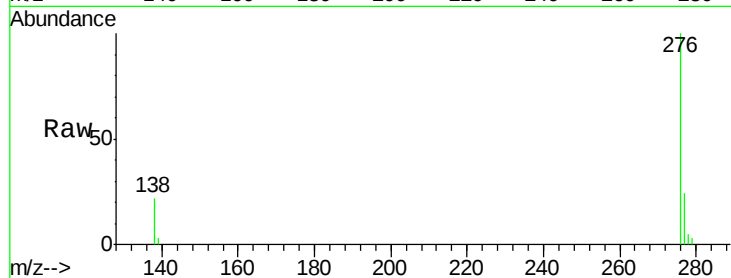
Lab File: BE095547.D

Acq: 7 Feb 2018 10:49

Instrument :

BNA_E

ClientSampleId :



Tot Ion:	276	Resp:	10183
Ion	Ratio	Lower	Upper
276	100		
277	24.2	16.0	24.0#
138	21.8	20.0	30.0

