

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050118\
 Data File : BE096271.D
 Acq On : 1 May 2018 23:32
 Operator : SJ/JU
 Sample : J2641-16
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 02 02:00:04 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE041118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 30 14:27:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.36	152	827	0.40	ng	0.00
7) Naphthalene-d8	11.19	136	3120	0.40	ng	0.00
13) Acenaphthene-d10	14.94	164	1736	0.40	ng	0.00
19) Phenanthrene-d10	17.65	188	4104	0.40	ng	0.00
27) Chrysene-d12	21.74	240	4068	0.40	ng	0.00
34) Perylene-d12	24.35	264	3980	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.87	112	377	0.15	ng	0.01
5) Phenol-d6	7.52	99	345	0.10	ng	0.01
8) Nitrobenzene-d5	9.54	82	1645	0.45	ng	0.00
11) 2-Methylnaphthalene-d10	12.73	152	1560	0.32	ng	0.00
14) 2,4,6-Tribromophenol	16.41	330	306	0.37	ng	0.00
15) 2-Fluorobiphenyl	13.57	172	3568	0.48	ng	0.00
25) Fluoranthene-d10	19.63	212	17825	0.32	ng	0.00
29) Terphenyl-d14	20.19	244	4687	0.52	ng	0.00

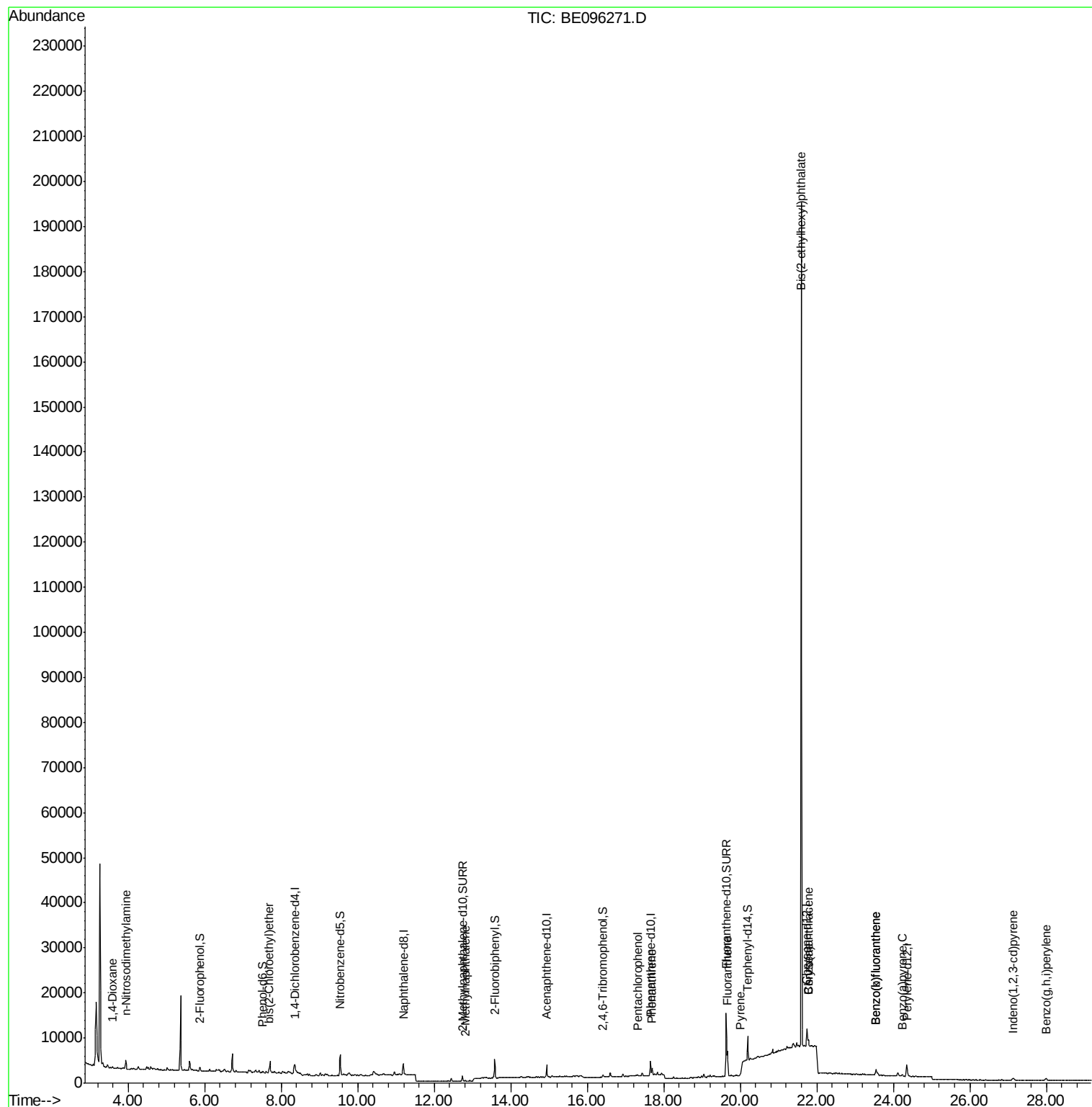
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.58	88	71	0.056	ng	# 1
3) n-Nitrosodimethylamine	3.94	42	278	0.178	ng	# 1
6) bis(2-Chloroethyl)ether	7.67	93	848	0.273	ng	# 1
12) 2-Methylnaphthalene	12.81	142	171	0.031	ng	# 75
22) Pentachlorophenol	17.31	266	25	0.158	ng	98
23) Phenanthrene	17.68	178	1894	0.164	ng	97
26) Fluoranthene	19.67	202	4997	0.330	ng	# 95
28) Pyrene	20.00	202	231	0.029	ng	# 4
30) Benzo(a)anthracene	21.79	228	2779	0.213	ng	# 78
31) Chrysene	21.79	228	2424	0.192	ng	# 78
32) Bis(2-ethylhexyl)phthalate	21.60	149	206193	6.124	ng	100
33) Indeno(1,2,3-cd)pyrene	27.13	276	854	0.070	ng	# 82
35) Benzo(b)fluoranthene	23.55	252	2283	0.191	ng	# 18
36) Benzo(k)fluoranthene	23.55	252	2283	0.186	ng	# 1
37) Benzo(a)pyrene	24.23	252	571	0.050	ng	# 1
39) Benzo(g,h,i)perylene	27.99	276	935	0.087	ng	# 54

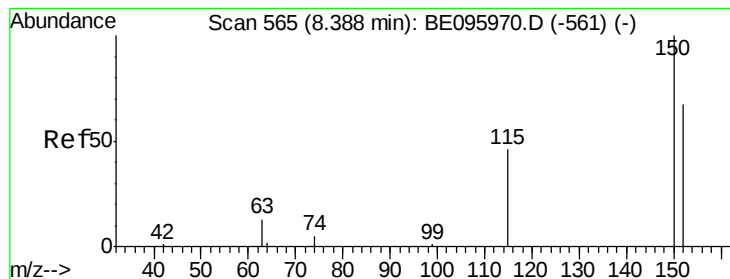
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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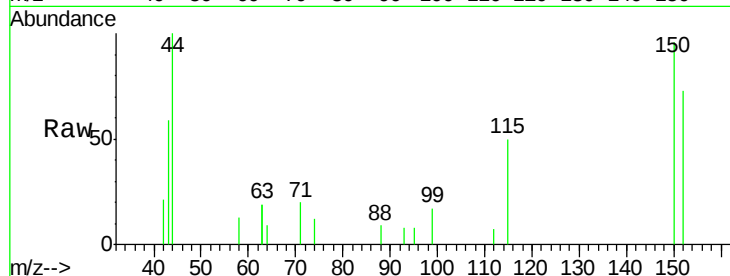


#1

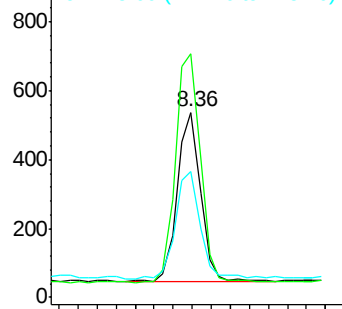
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.36 min Scan# 562
Delta R.T. 0.00 min
Lab File: BE096271.D
Acq: 1 May 2018 23:32

Instrument :
BNA_E
ClientSampleId :

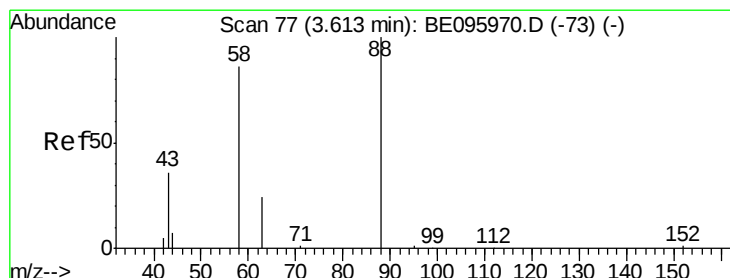
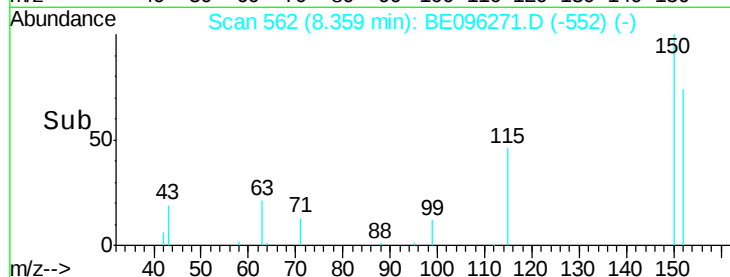
Tot Ion:152 Resp: 827
Ion Ratio Lower Upper
152 100
150 131.4 117.2 175.8
115 67.8 57.0 85.6



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



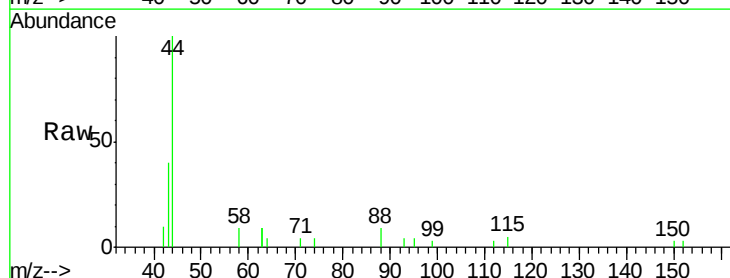
Time-->



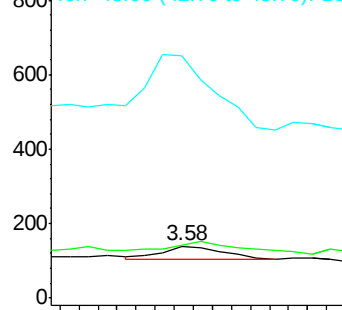
#2

1,4-Dioxane
Concen: 0.056 ng
RT: 3.58 min Scan# 74
Delta R.T. -0.02 min
Lab File: BE096271.D
Acq: 1 May 2018 23:32

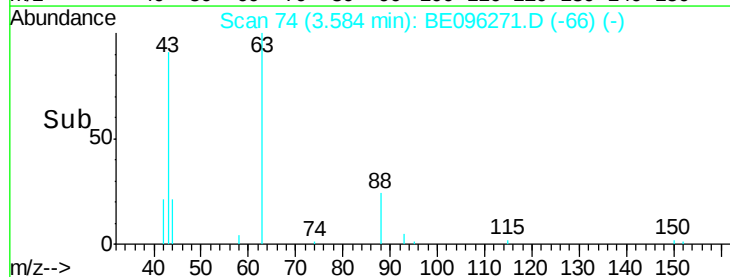
Tgt Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
58 126.8 63.2 94.8#
43 769.0 41.2 61.8#



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



Time-->



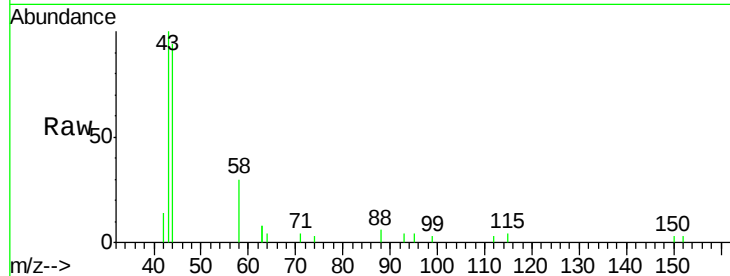


#3

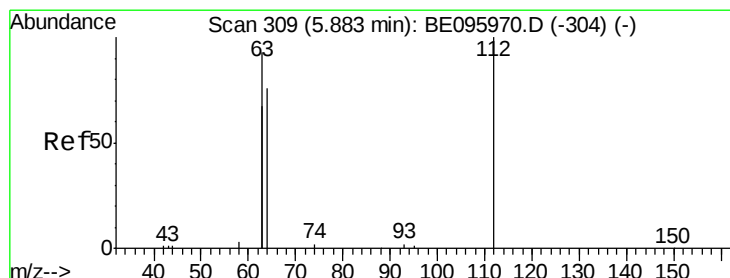
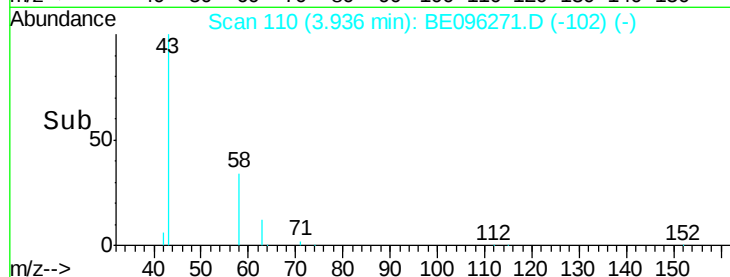
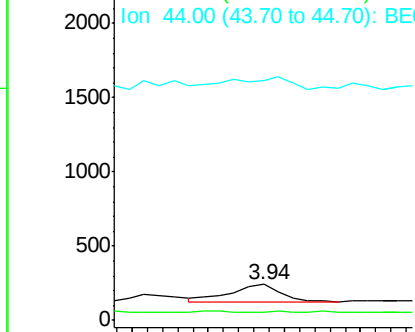
n-Nitrosodimethylamine
 Concen: 0.178 ng
 RT: 3.94 min Scan# 110
 Delta R.T. -0.02 min
 Lab File: BE096271.D
 Acq: 1 May 2018 23:32

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 278
 Ion Ratio Lower Upper
 42 100
 74 1.4 96.0 144.0#
 44 77.0 12.0 18.0#



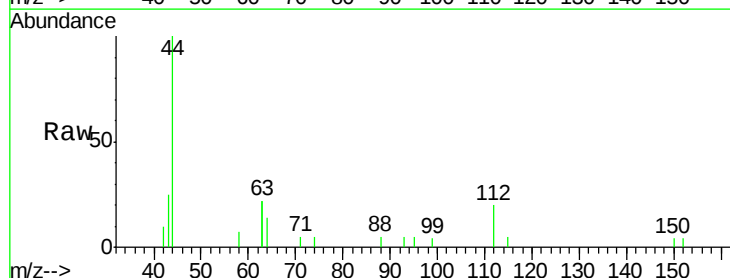
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



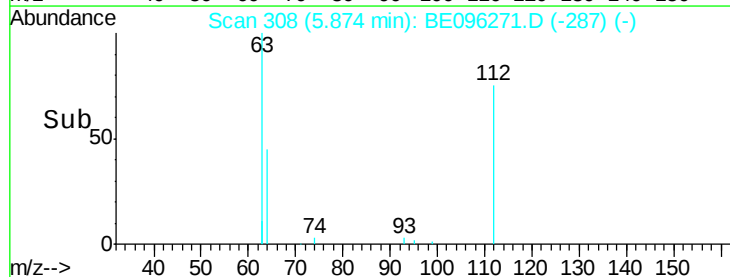
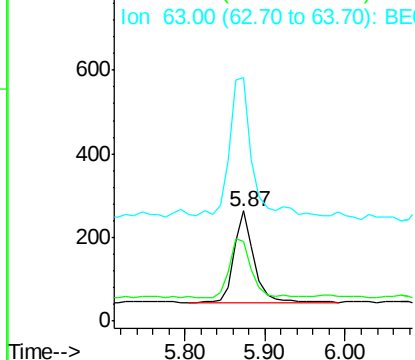
#4

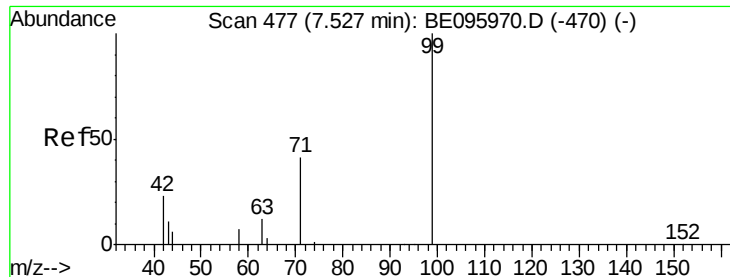
2-Fluorophenol
 Concen: 0.147 ng
 RT: 5.87 min Scan# 308
 Delta R.T. 0.01 min
 Lab File: BE096271.D
 Acq: 1 May 2018 23:32

Tgt Ion: 112 Resp: 377
 Ion Ratio Lower Upper
 112 100
 64 73.7 60.1 90.1
 63 188.9 116.8 175.2#



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BE0
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.098 ng

RT: 7.52 min Scan# 476

Delta R.T. 0.01 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampled :

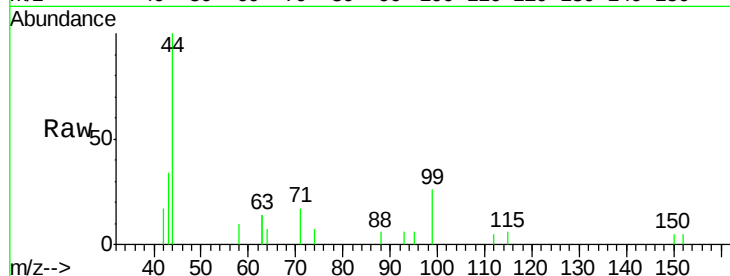
Tot Ion: 99 Resp: 345

Ion Ratio Lower Upper

99 100

42 39.7 20.2 30.2#

71 51.3 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

7.52

250

200

150

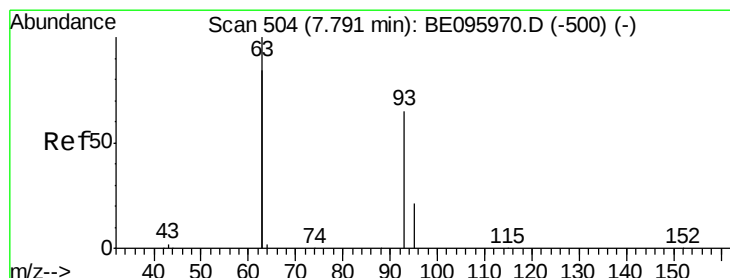
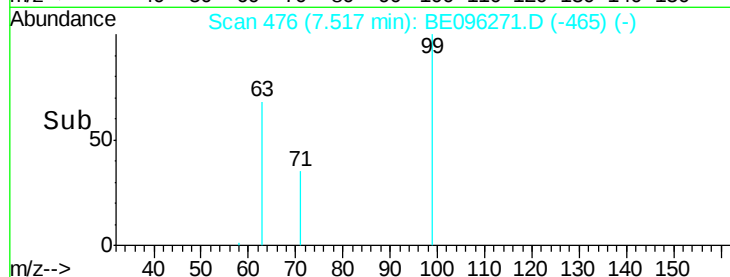
100

50

0

7.40 7.45 7.50 7.55 7.60

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.273 ng

RT: 7.67 min Scan# 492

Delta R.T. -0.09 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

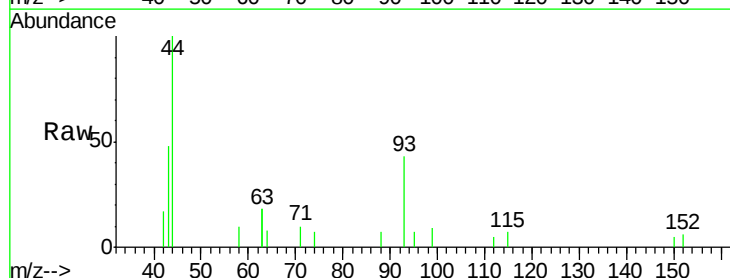
Tgt Ion: 93 Resp: 848

Ion Ratio Lower Upper

93 100

63 27.4 275.3 412.9#

95 1.3 25.2 37.8#



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

7.67

500

400

300

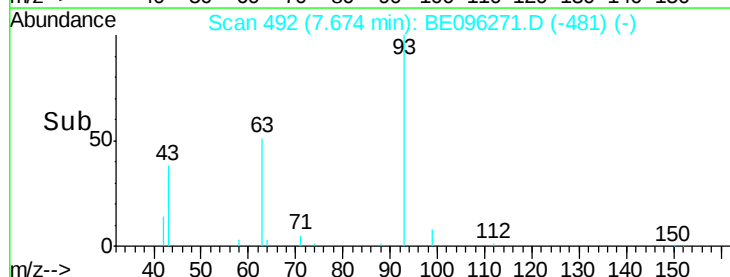
200

100

0

7.60 7.70 7.80

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.19 min Scan# 779

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 3120

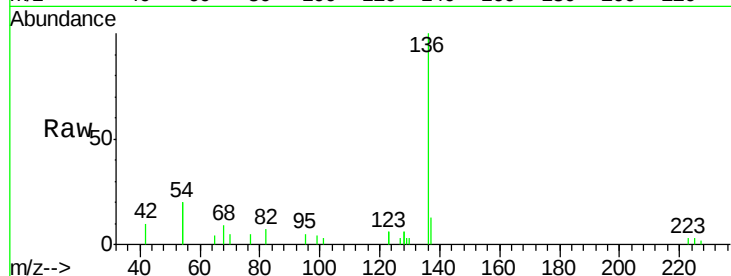
Ion Ratio Lower Upper

136 100

137 13.0 9.5 14.3

54 39.6 29.1 43.7

68 9.3 6.2 9.2#

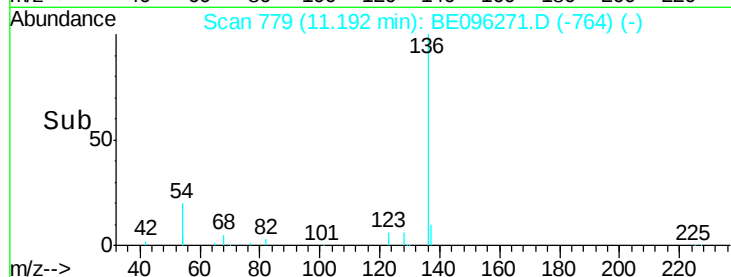


Abundance Ion 136.00 (135.70 to 136.70): E

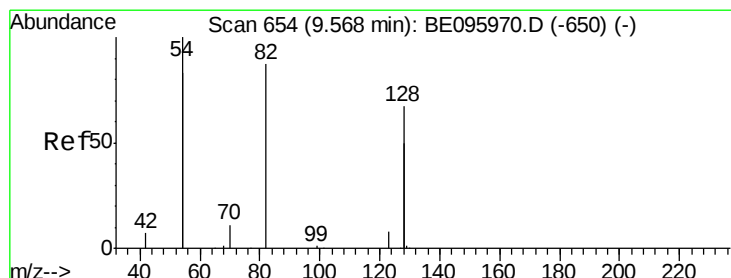
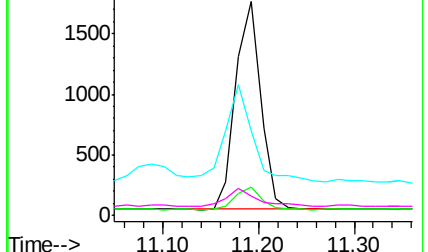
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->



#8

Nitrobenzene-d5

Concen: 0.450 ng

RT: 9.54 min Scan# 652

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

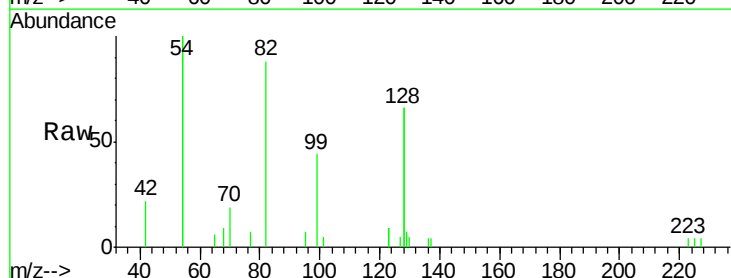
Tgt Ion: 82 Resp: 1645

Ion Ratio Lower Upper

82 100

128 150.8 150.0 225.0

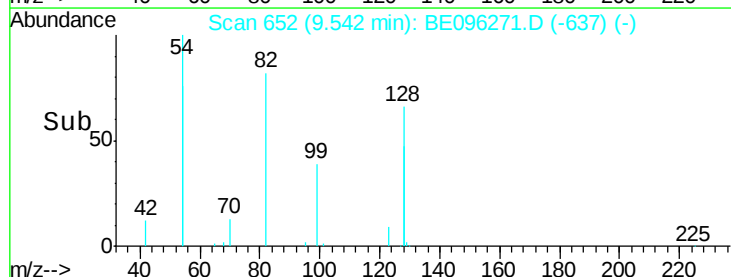
54 228.0 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE0

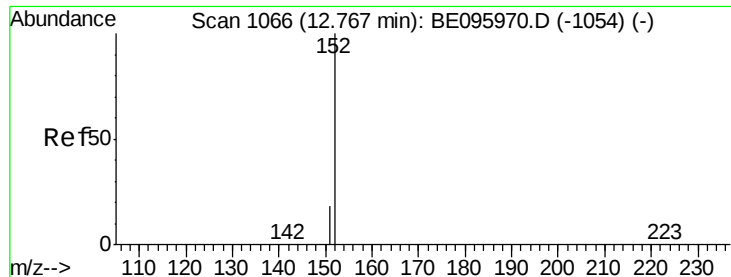
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->

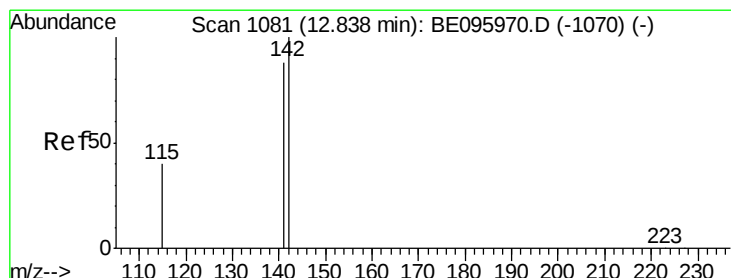
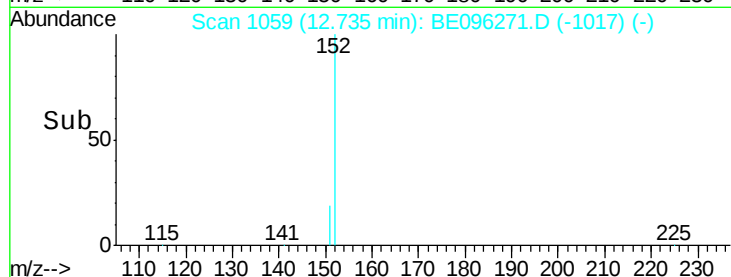
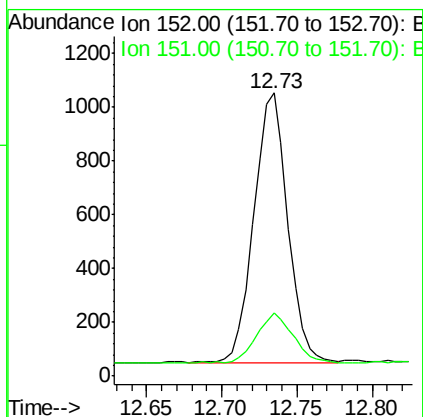
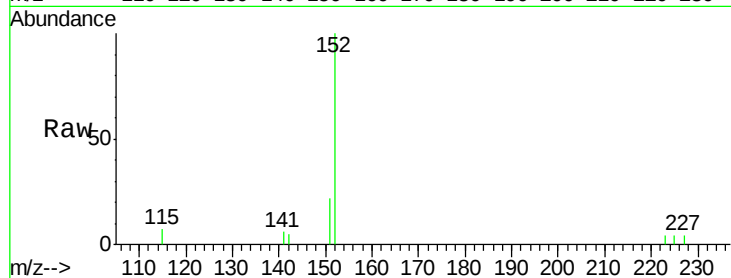




#11
 2-Methylnaphthalene-d10
 Concen: 0.315 ng
 RT: 12.73 min Scan# 1059
 Delta R.T. -0.00 min
 Lab File: BE096271.D
 Acq: 1 May 2018 23:32

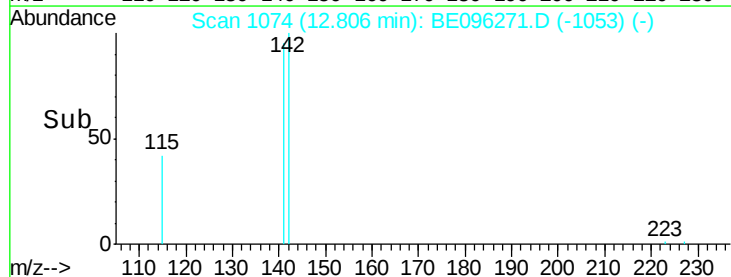
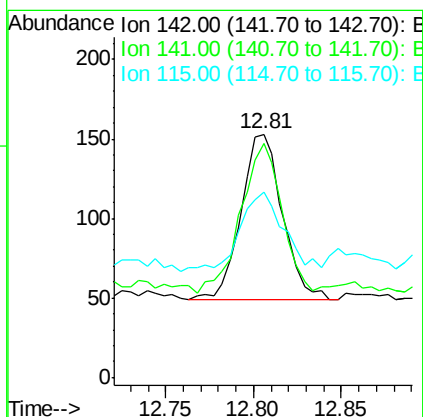
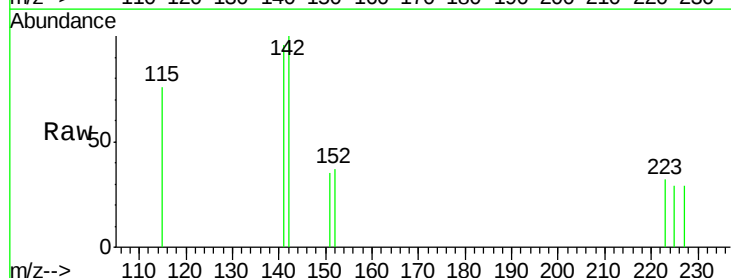
Instrument :
 BNA_E
 ClientSampled :

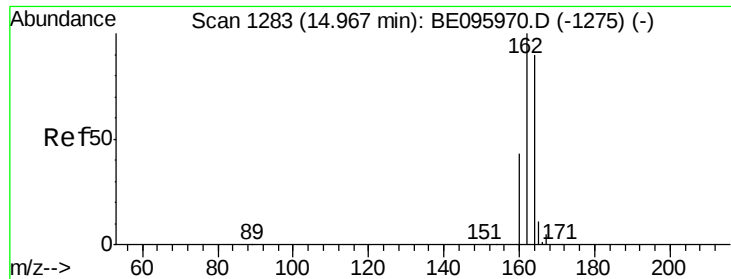
Tot Ion:152 Resp: 1560
 Ion Ratio Lower Upper
 152 100
 151 20.7 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.031 ng
 RT: 12.81 min Scan# 1074
 Delta R.T. -0.00 min
 Lab File: BE096271.D
 Acq: 1 May 2018 23:32

Tgt Ion:142 Resp: 171
 Ion Ratio Lower Upper
 142 100
 141 96.1 70.4 105.6
 115 76.5 31.7 47.5#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.94 min Scan# 1281

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampleId :

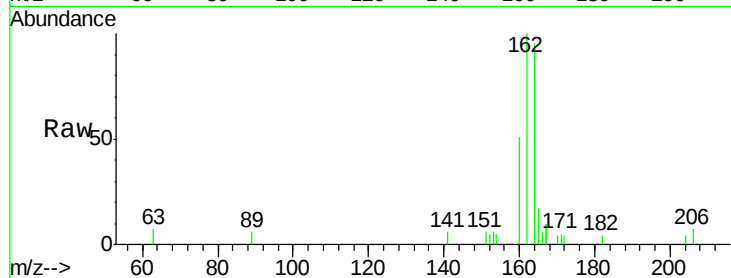
Tot Ion:164 Resp: 1736

Ion Ratio Lower Upper

164 100

162 105.1 83.1 124.7

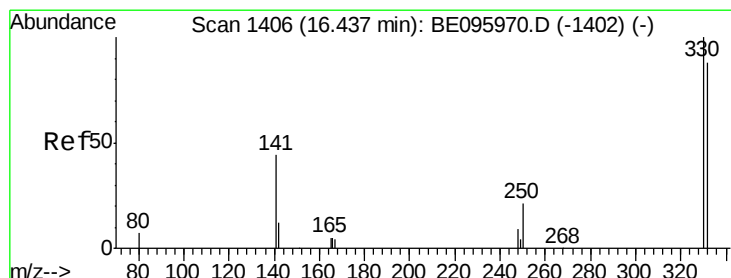
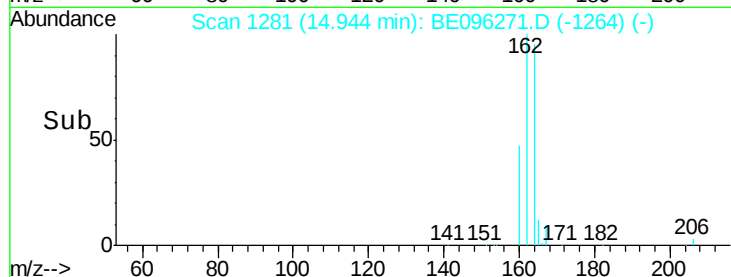
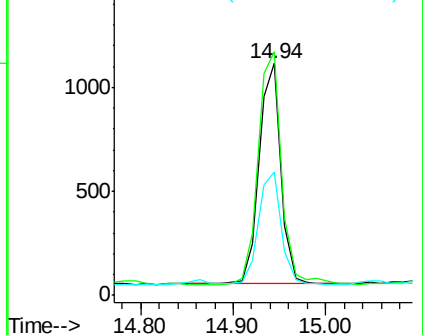
160 53.2 37.1 55.7



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: 0.365 ng

RT: 16.41 min Scan# 1404

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

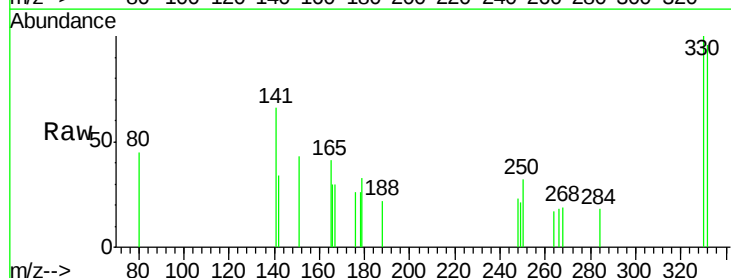
Tgt Ion:330 Resp: 306

Ion Ratio Lower Upper

330 100

332 95.8 152.7 229.1#

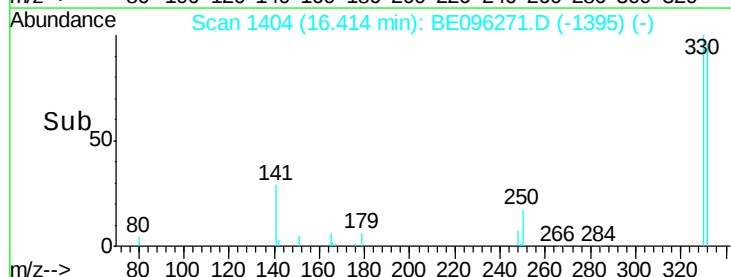
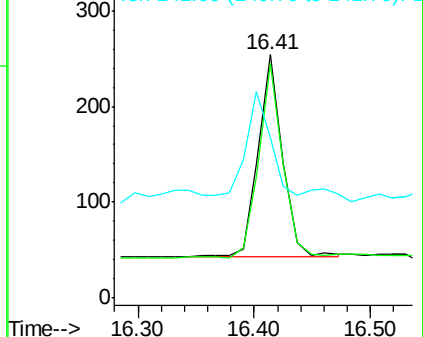
141 50.3 33.7 50.5

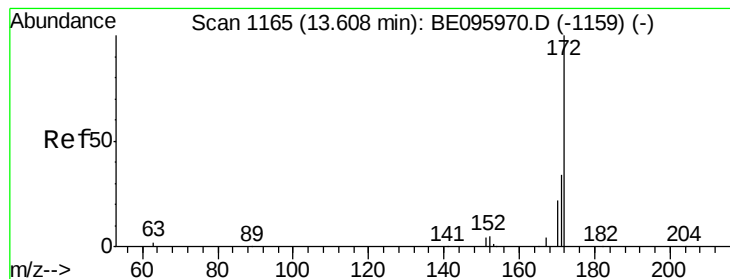


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.480 ng

RT: 13.57 min Scan# 1162

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampleId :

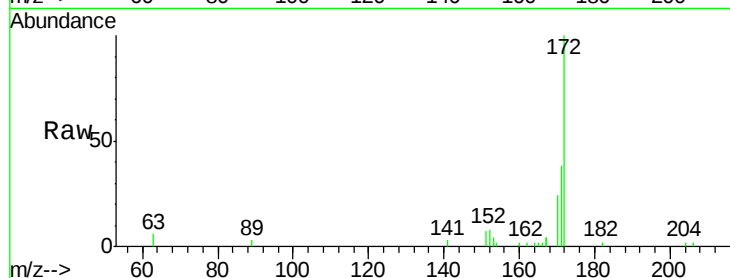
Tot Ion:172 Resp: 3568

Ion Ratio Lower Upper

172 100

171 37.6 29.9 44.9

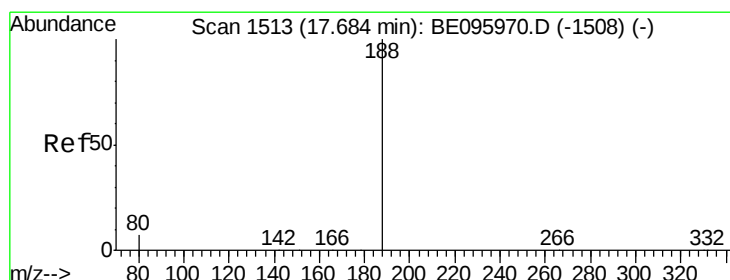
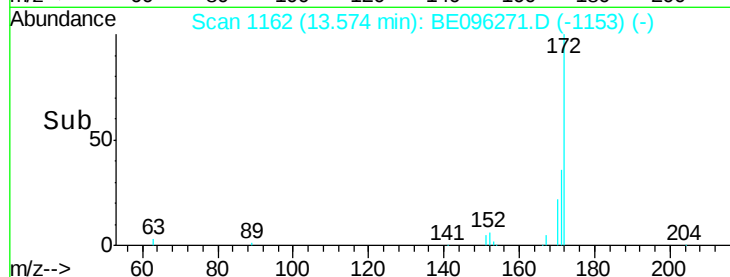
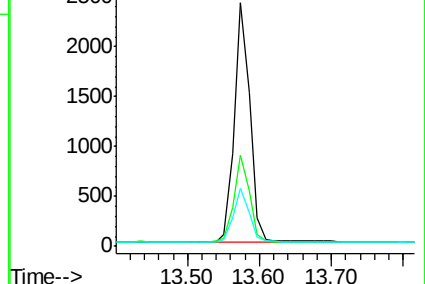
170 23.6 21.8 32.8



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.65 min Scan# 1510

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

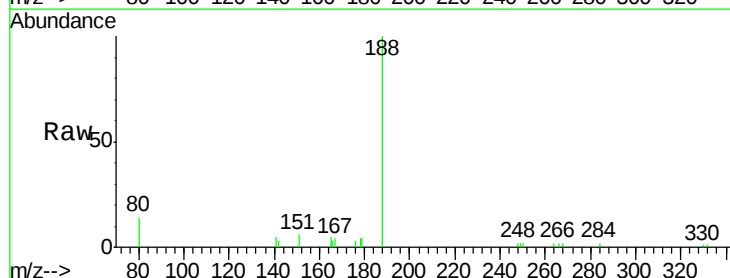
Tgt Ion:188 Resp: 4104

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

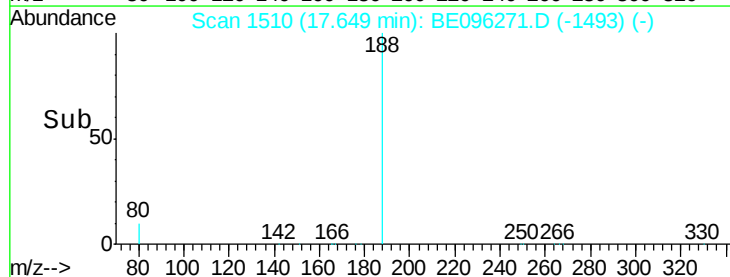
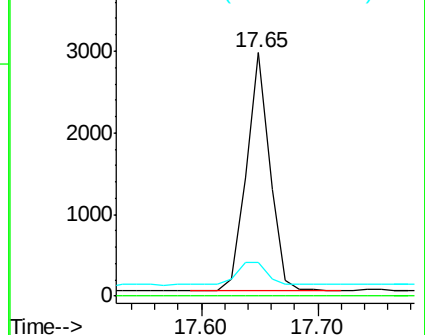
80 14.1 3.6 5.4#

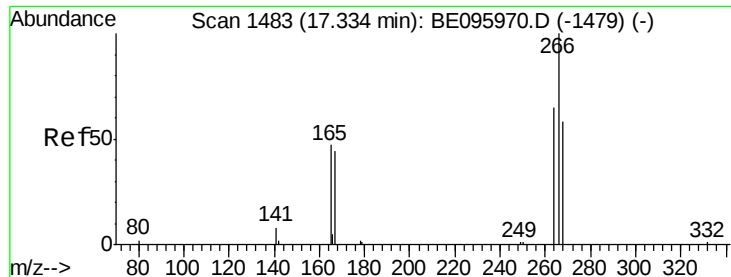


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#22

Pentachlorophenol

Concen: 0.158 ng

RT: 17.31 min Scan# 1481

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampleId :

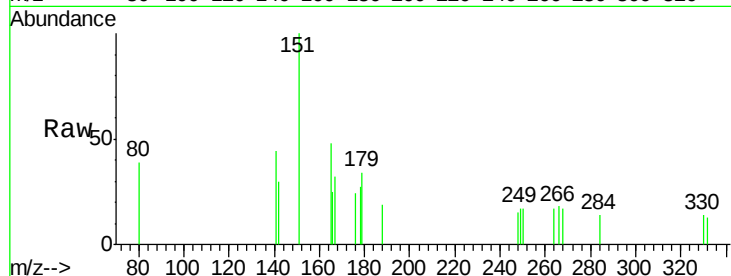
Tot Ion:266 Resp: 25

Ion Ratio Lower Upper

266 100

264 93.1 72.5 108.7

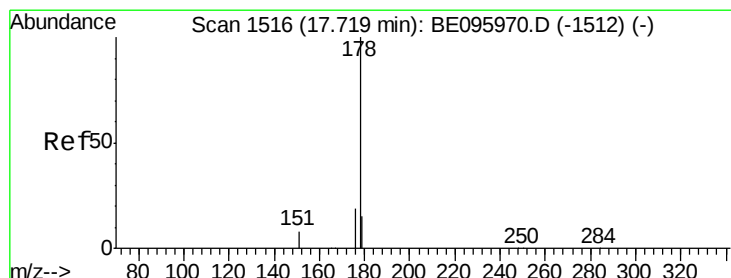
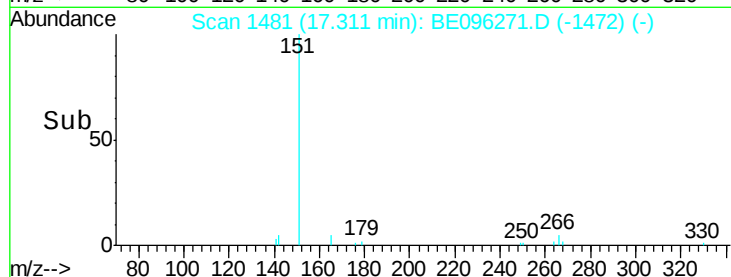
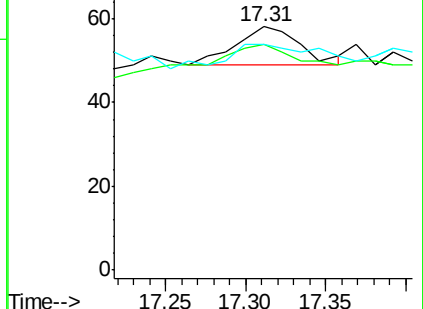
268 93.1 73.8 110.6



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: 0.164 ng

RT: 17.68 min Scan# 1513

Delta R.T. -0.01 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

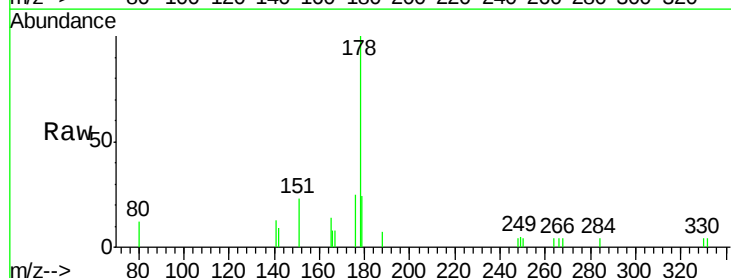
Tgt Ion:178 Resp: 1894

Ion Ratio Lower Upper

178 100

176 20.0 15.1 22.7

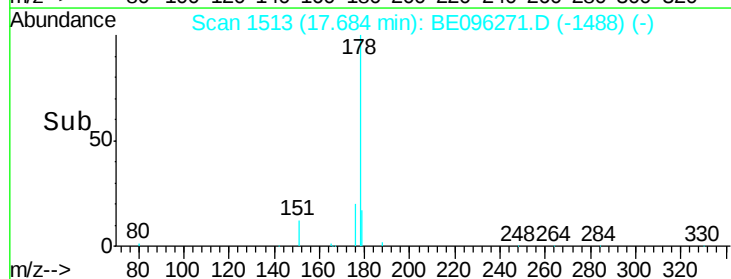
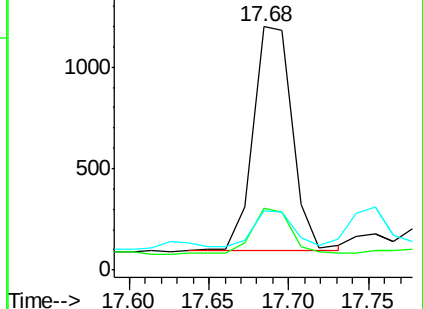
179 16.4 11.8 17.6

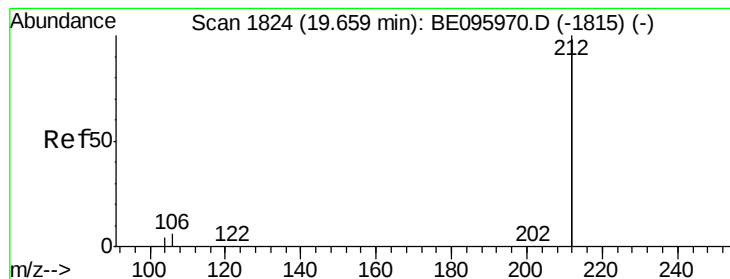


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.320 ng

RT: 19.63 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampleId :

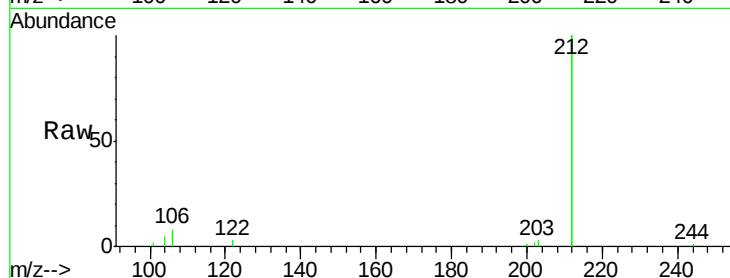
Tot Ion:212 Resp: 17825

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

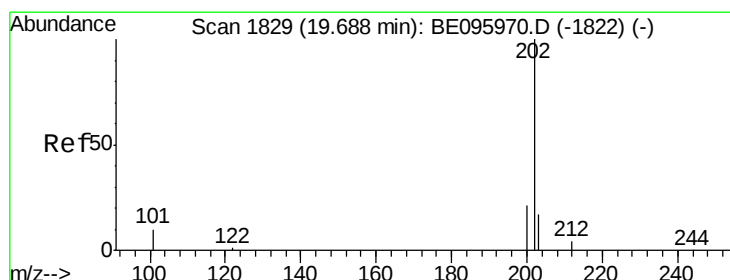
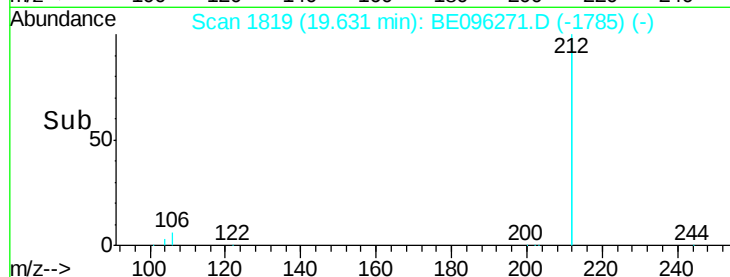
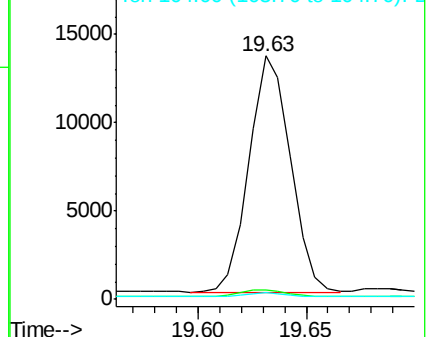
104 2.0 1.6 2.4



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: 0.330 ng

RT: 19.67 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

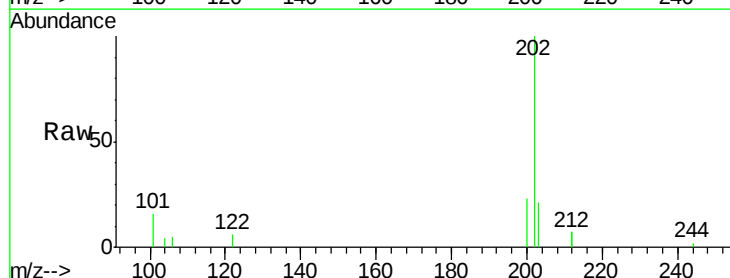
Tgt Ion:202 Resp: 4997

Ion Ratio Lower Upper

202 100

101 16.1 9.8 14.8#

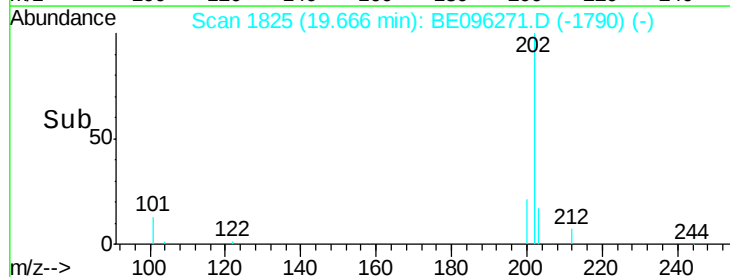
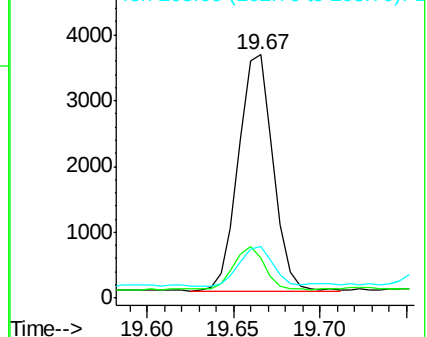
203 17.6 13.7 20.5

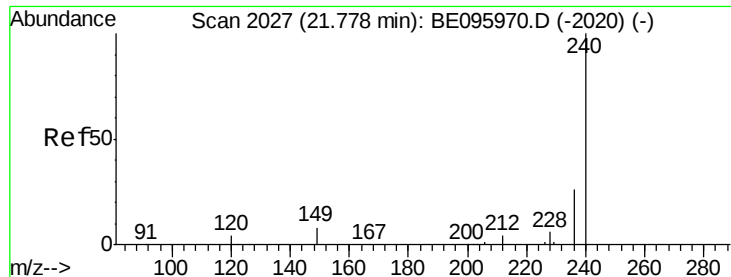


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.74 min Scan# 2024

Delta R.T. -0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampled :

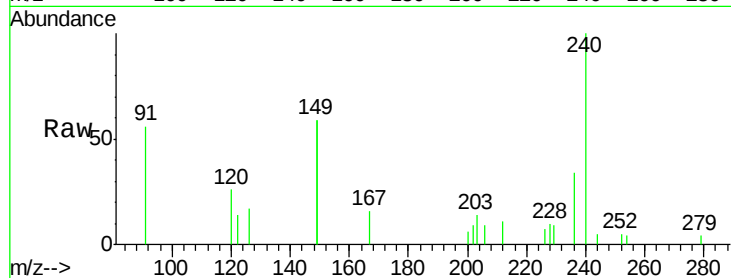
Tot Ion:240 Resp: 4068

Ion Ratio Lower Upper

240 100

120 25.6 5.5 8.3#

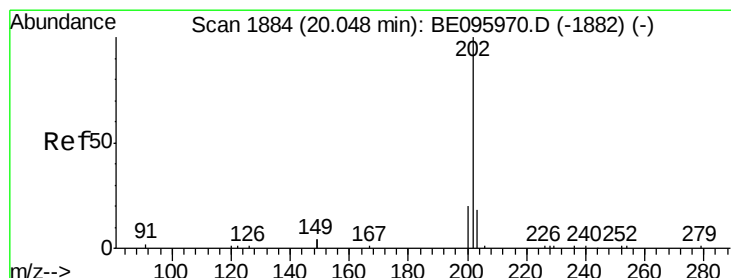
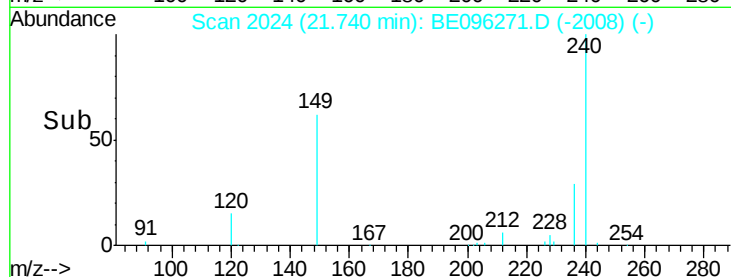
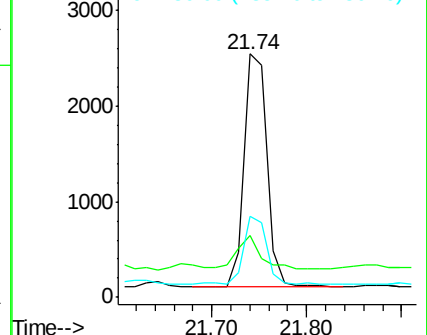
236 33.5 20.7 31.1#



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: 0.029 ng

RT: 20.00 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

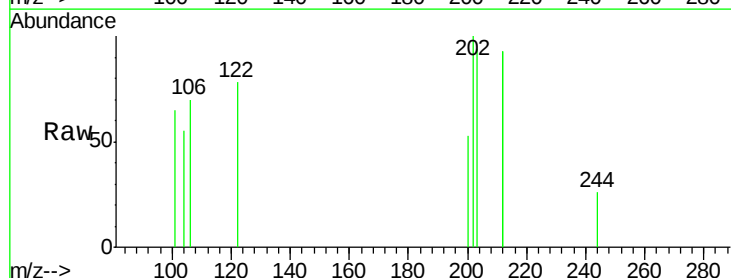
Tgt Ion:202 Resp: 231

Ion Ratio Lower Upper

202 100

200 31.2 16.6 25.0#

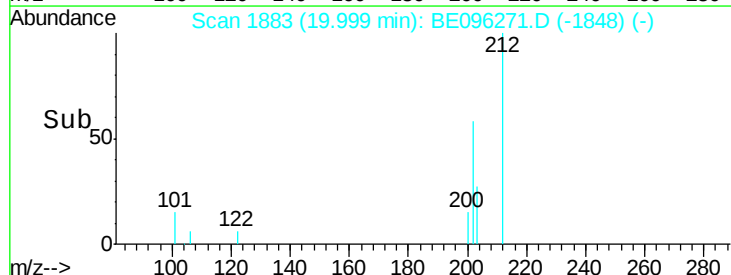
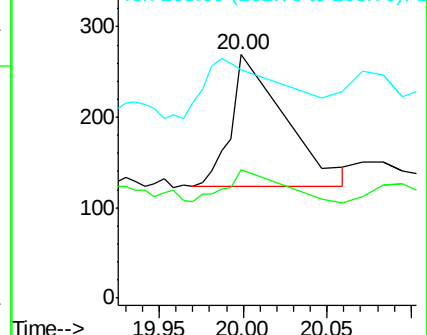
203 97.4 13.8 20.8#

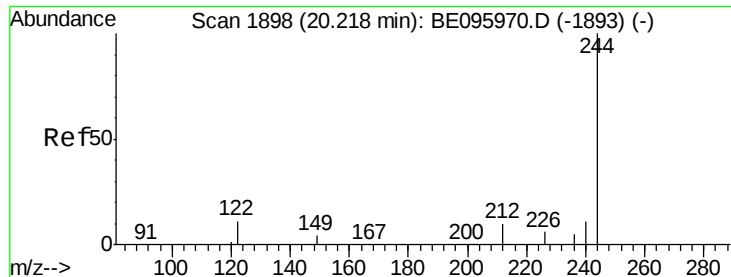


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.521 ng

RT: 20.19 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampleId :

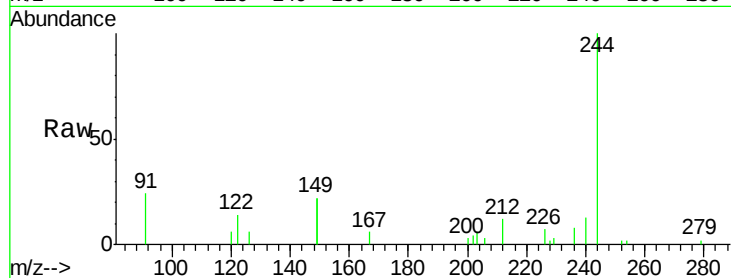
Tot Ion:244 Resp: 4687

Ion Ratio Lower Upper

244 100

212 12.1 25.4 38.0#

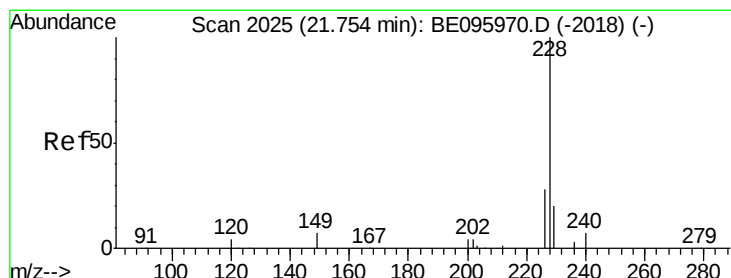
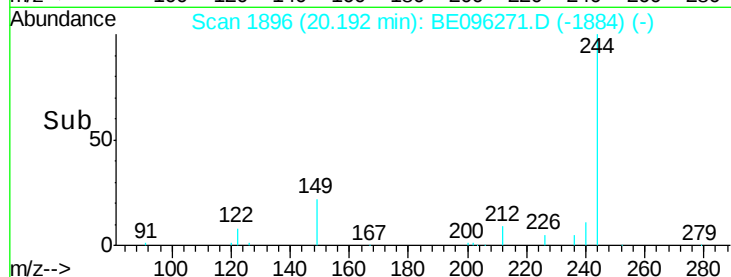
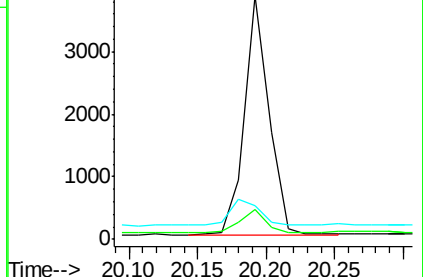
122 13.8 8.1 12.1#



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: 0.213 ng

RT: 21.79 min Scan# 2028

Delta R.T. 0.06 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

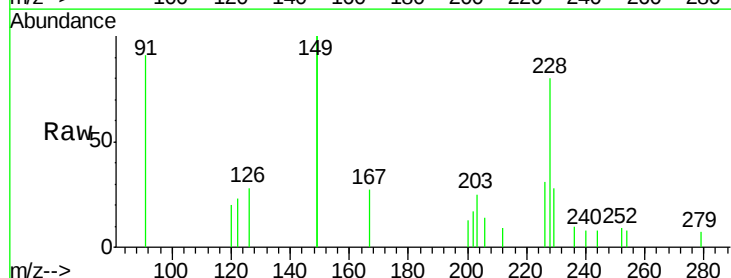
Tgt Ion:228 Resp: 2779

Ion Ratio Lower Upper

228 100

226 38.4 24.0 36.0#

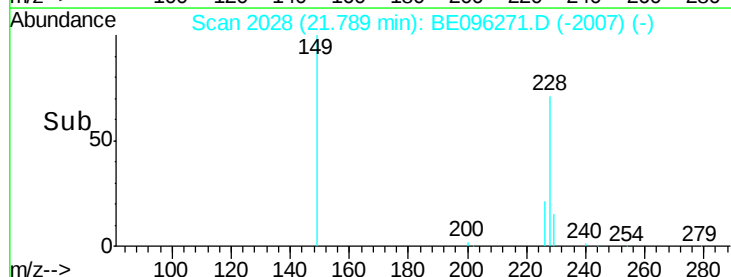
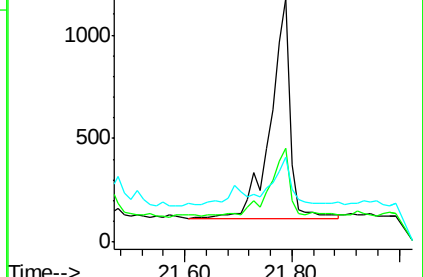
229 34.7 16.0 24.0#

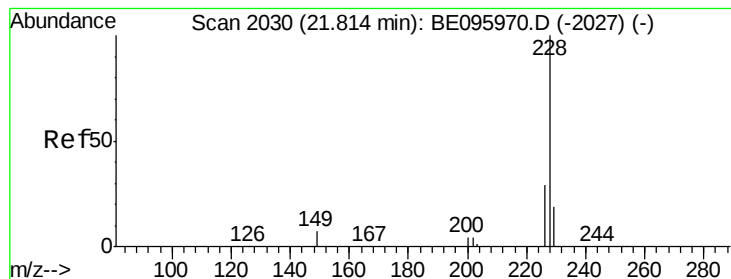


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.192 ng

RT: 21.79 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampled :

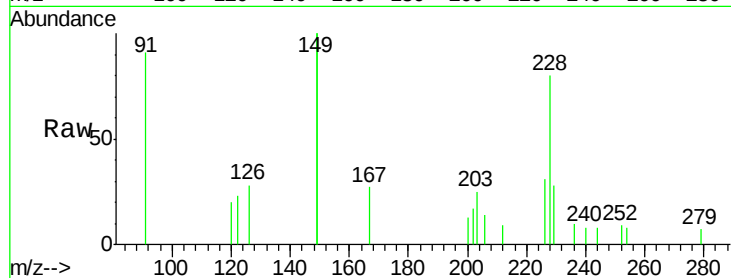
Tot Ion:228 Resp: 2424

Ion Ratio Lower Upper

228 100

226 38.4 24.0 36.0#

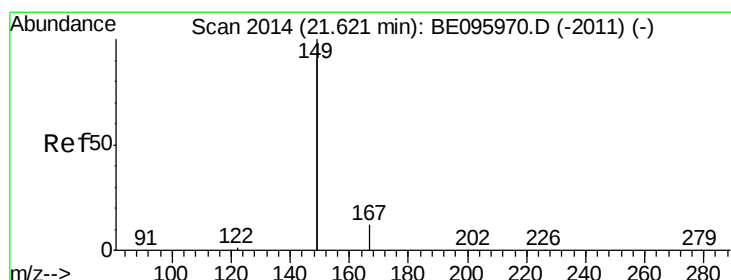
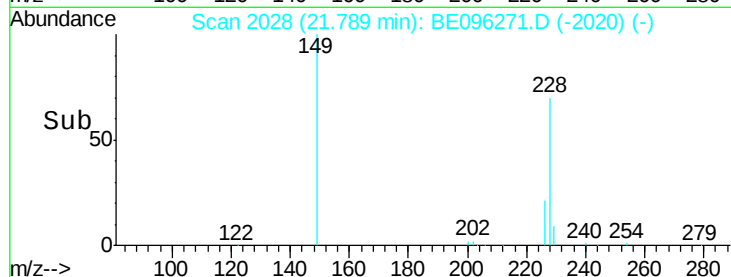
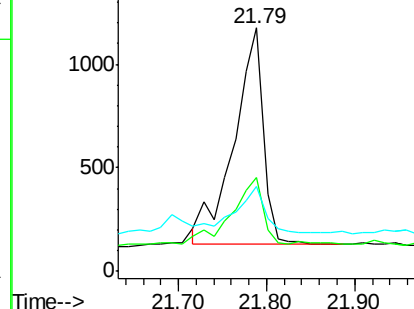
229 34.7 16.0 24.0#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 6.124 ng

RT: 21.60 min Scan# 2012

Delta R.T. -0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

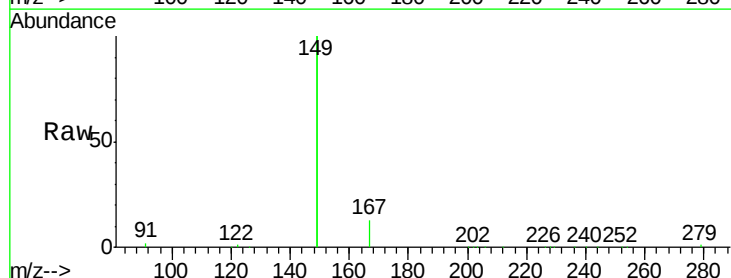
Tgt Ion:149 Resp: 206193

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

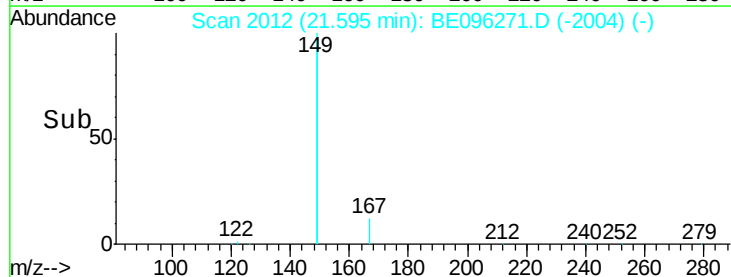
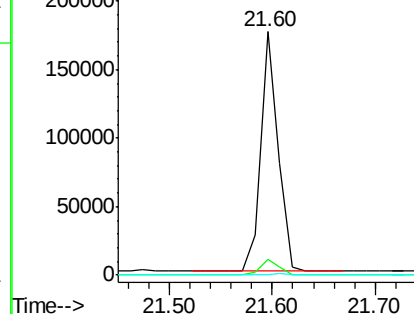
279 0.7 0.7 1.1

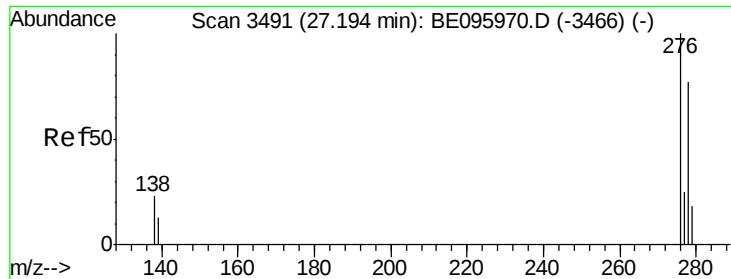


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

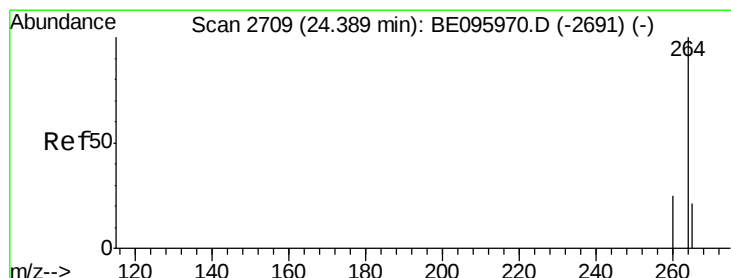
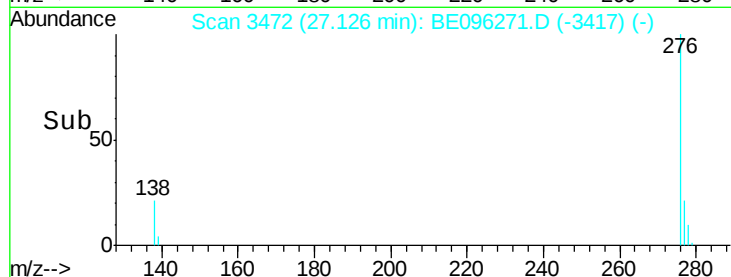
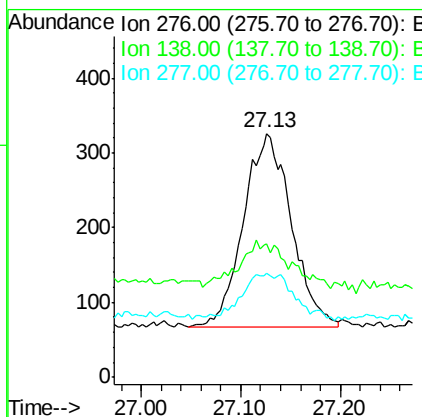
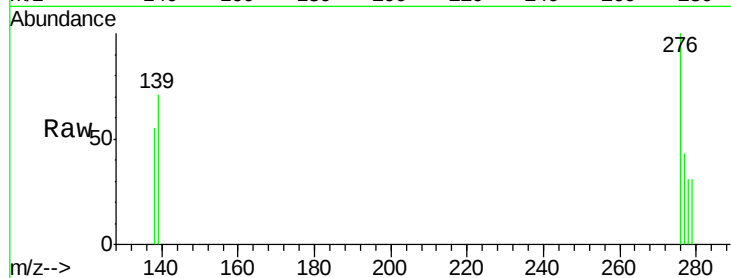




#33
Indeno(1,2,3-cd)pyrene
Concen: 0.070 ng
RT: 27.13 min Scan# 3472
Delta R.T. -0.00 min
Lab File: BE096271.D
Acq: 1 May 2018 23:32

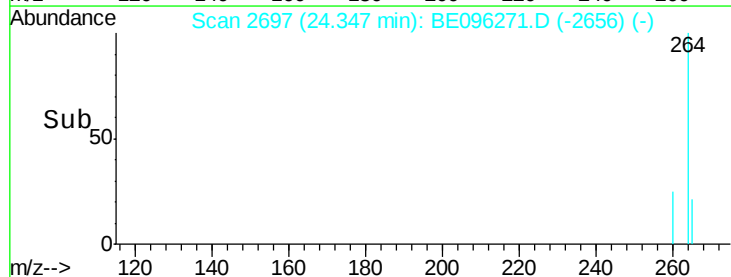
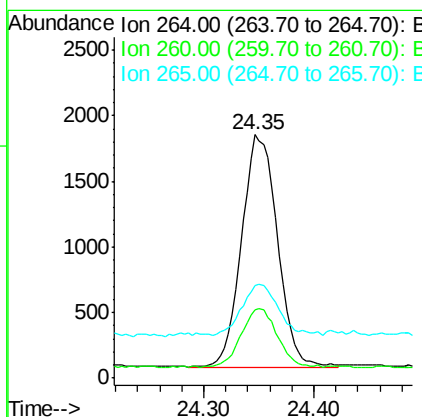
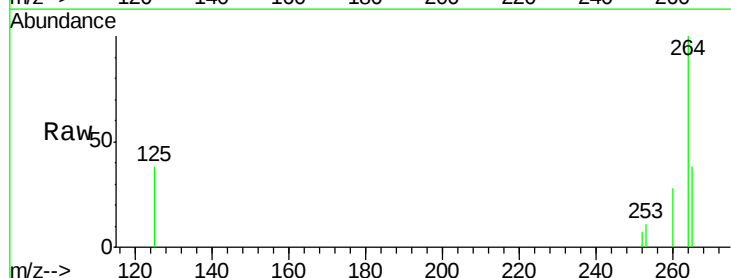
Instrument :
BNA_E
ClientSampleId :

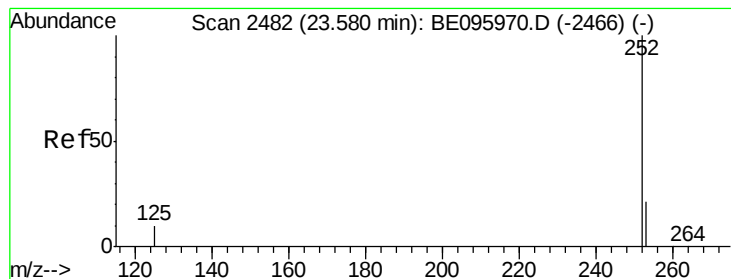
Tot Ion:276 Resp: 854
Ion Ratio Lower Upper
276 100
138 20.4 22.5 33.7#
277 13.7 19.9 29.9#



#34
Perylene-d12
Concen: 0.400 ng
RT: 24.35 min Scan# 2697
Delta R.T. -0.00 min
Lab File: BE096271.D
Acq: 1 May 2018 23:32

Tgt Ion:264 Resp: 3980
Ion Ratio Lower Upper
264 100
260 27.9 20.5 30.7
265 37.8 22.8 34.2#





#35

Benzo(b)fluoranthene

Concen: 0.191 ng

RT: 23.55 min Scan# 2473

Delta R.T. 0.01 min

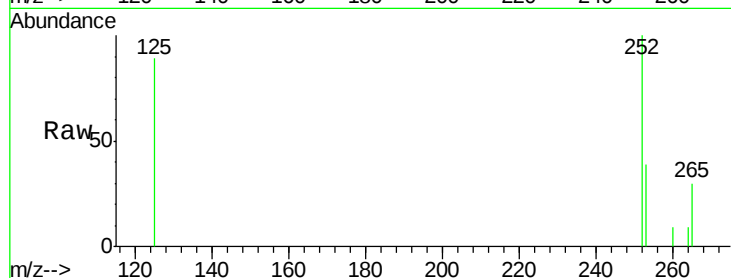
Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampled :



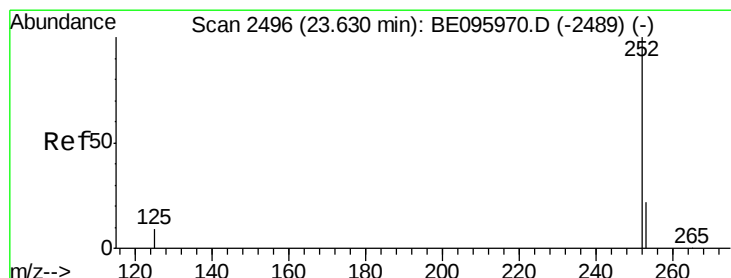
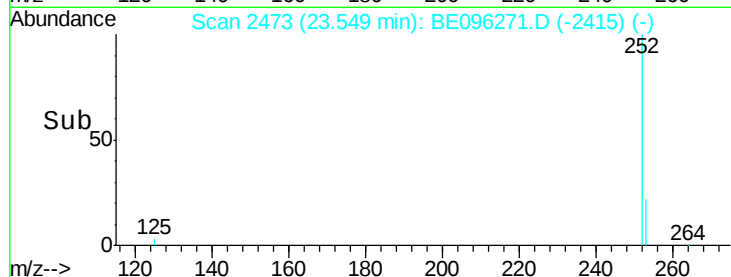
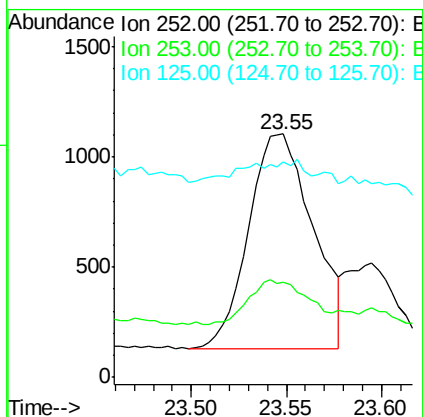
Tot Ion:252 Resp: 2283

Ion Ratio Lower Upper

252 100

253 39.3 20.0 30.0#

125 88.6 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.186 ng

RT: 23.55 min Scan# 2473

Delta R.T. -0.05 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

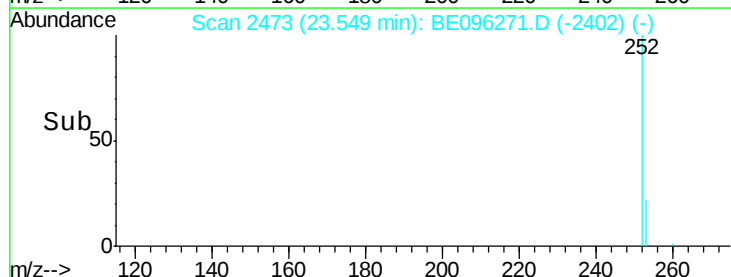
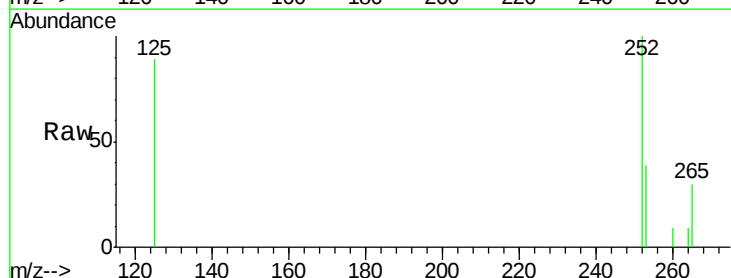
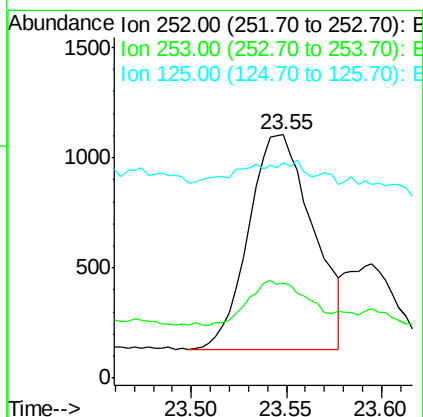
Tgt Ion:252 Resp: 2283

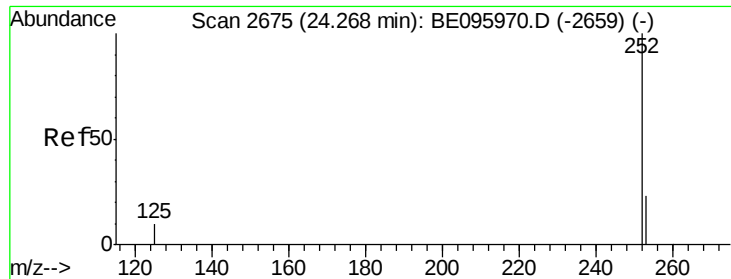
Ion Ratio Lower Upper

252 100

253 39.3 16.0 24.0#

125 88.6 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.050 ng

RT: 24.23 min Scan# 2665

Delta R.T. -0.00 min

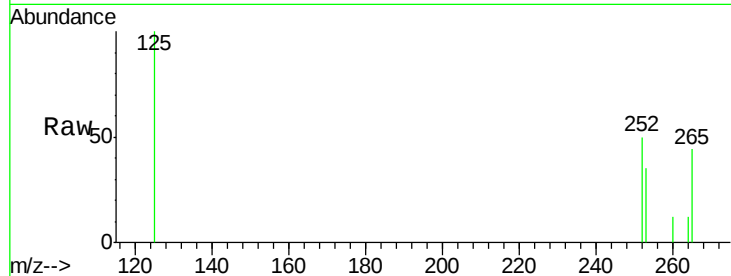
Lab File: BE096271.D

Acq: 1 May 2018 23:32

Instrument :

BNA_E

ClientSampled :



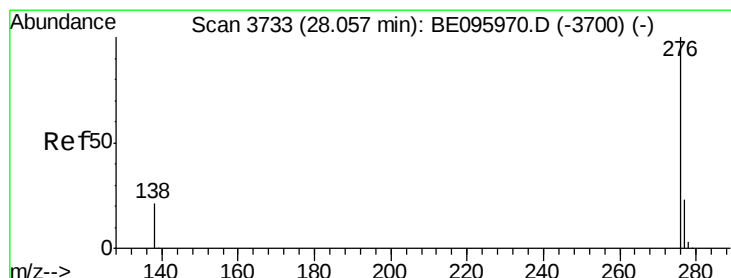
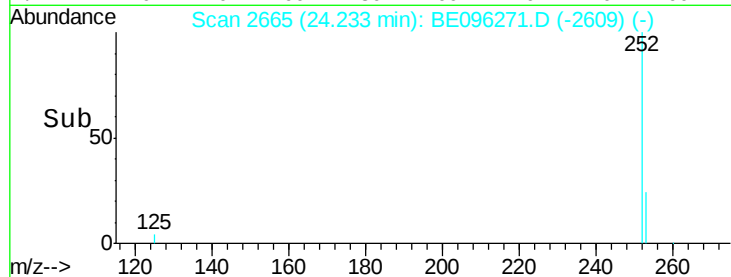
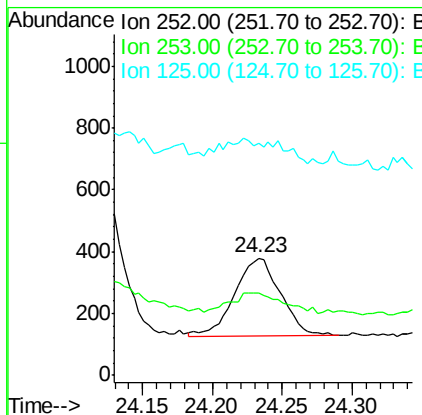
Tot Ion:252 Resp: 571

Ion Ratio Lower Upper

252 100

253 70.4 16.0 24.0#

125 198.4 12.0 18.0#



#39

Benzo(g,h,i)perylene

Concen: 0.087 ng

RT: 27.99 min Scan# 3714

Delta R.T. -0.00 min

Lab File: BE096271.D

Acq: 1 May 2018 23:32

Tgt Ion:276 Resp: 935

Ion Ratio Lower Upper

276 100

277 42.0 16.0 24.0#

138 47.6 20.0 30.0#

