

Data Path : Z:\HPCHEM1\BNA E\DATA\BE050118\
 Data File : BE096259.D
 Acq On : 1 May 2018 16:13
 Operator : SJ/JU
 Sample : PB108594BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: May 02 01:54:07 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	8.35	152	847	0.40	ng	0.00
7) Naphthalene-d8	11.19	136	3012	0.40	ng	0.00
13) Acenaphthene-d10	14.95	164	1488	0.40	ng	0.00
19) Phenanthrene-d10	17.65	188	3351	0.40	ng	0.00
27) Chrysene-d12	21.74	240	4119	0.40	ng	0.00
34) Perylene-d12	24.35	264	3940	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.87	112	944	0.36	ng	0.00
5) Phenol-d6	7.52	99	1304	0.36	ng	0.01
8) Nitrobenzene-d5	9.54	82	1295	0.37	ng	0.00
11) 2-Methylnaphthalene-d10	12.74	152	1601	0.34	ng	0.00
14) 2,4,6-Tribromophenol	16.41	330	176	0.24	ng	0.00
15) 2-Fluorobiphenyl	13.57	172	2396	0.38	ng	0.00
25) Fluoranthene-d10	19.64	212	17231	0.38	ng	0.00
29) Terphenyl-d14	20.19	244	2780	0.31	ng	0.00

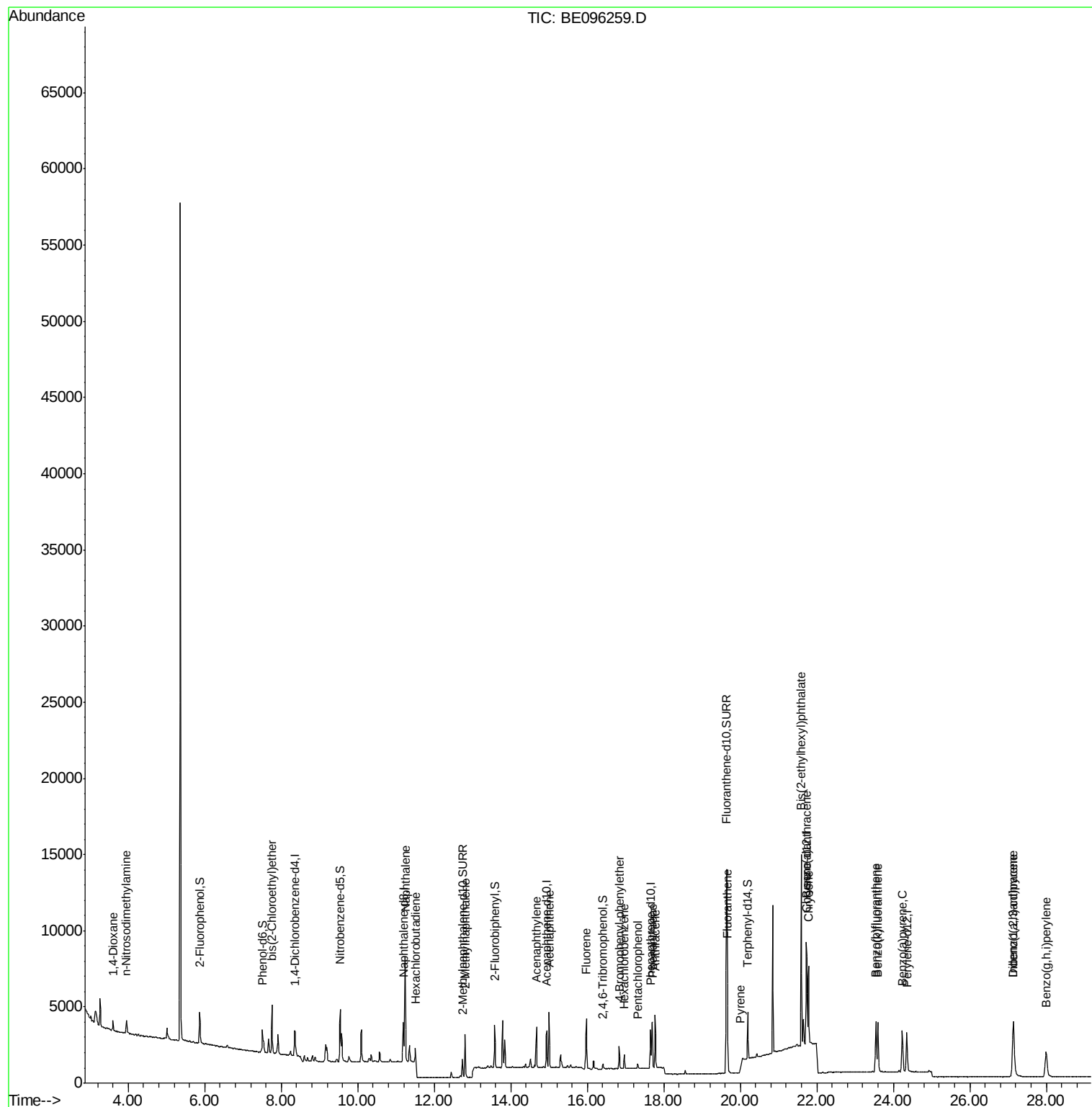
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.61	88	387	0.296	ng	# 78
3) n-Nitrosodimethylamine	3.95	42	690	0.430	ng	# 75
6) bis(2-Chloroethyl)ether	7.75	93	1078	0.339	ng	97
9) Naphthalene	11.24	128	12286	0.387	ng	99
10) Hexachlorobutadiene	11.50	225	333	0.237	ng	# 83
12) 2-Methylnaphthalene	12.81	142	1958	0.373	ng	95
16) Acenaphthylene	14.67	152	2938	0.370	ng	99
17) Acenaphthene	15.00	154	1757	0.368	ng	95
18) Fluorene	15.97	166	2231	0.378	ng	# 76
20) 4-Bromophenyl-phenylether	16.83	248	692	0.348	ng	# 72
21) Hexachlorobenzene	16.96	284	684	0.345	ng	# 79
22) Pentachlorophenol	17.31	266	177	0.329	ng	# 84
23) Phenanthrene	17.70	178	3657	0.388	ng	99
24) Anthracene	17.78	178	3674	0.408	ng	# 95
26) Fluoranthene	19.66	202	5067	0.410	ng	98
28) Pyrene	20.00	202	294	0.036	ng	# 68
30) Benzo(a)anthracene	21.73	228	5227	0.396	ng	98
31) Chrysene	21.79	228	5007	0.392	ng	99
32) Bis(2-ethylhexyl)phthalate	21.60	149	13451	0.395	ng	100
33) Indeno(1,2,3-cd)pyrene	27.13	276	5181	0.419	ng	95
35) Benzo(b)fluoranthene	23.54	252	5011	0.424	ng	# 94
36) Benzo(k)fluoranthene	23.59	252	4861	0.400	ng	# 86
37) Benzo(a)pyrene	24.23	252	4753	0.418	ng	# 89
38) Dibenzo(a,h)anthracene	27.14	278	4251	0.424	ng	95
39) Benzo(g,h,i)perylene	28.00	276	4403	0.416	ng	# 93

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

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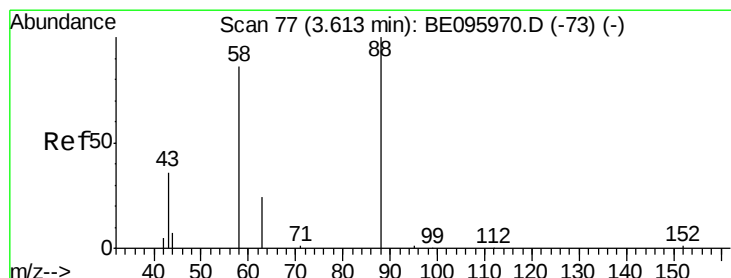
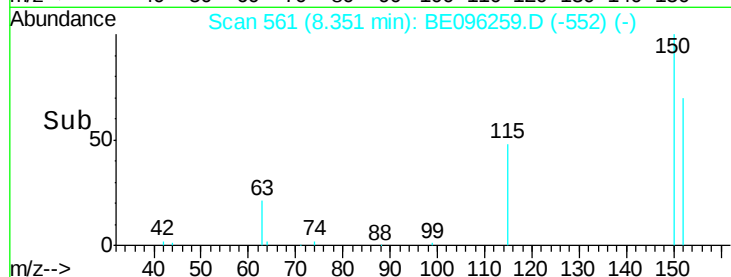
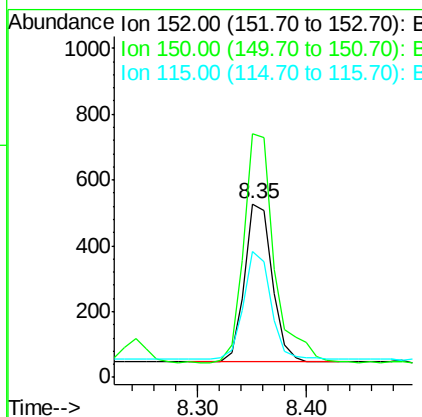
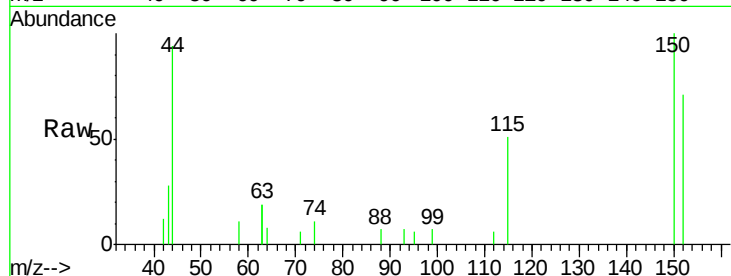


#1

1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 8.35 min Scan# 561
 Delta R.T. -0.01 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Instrument :
 BNA_E
 ClientSampled :

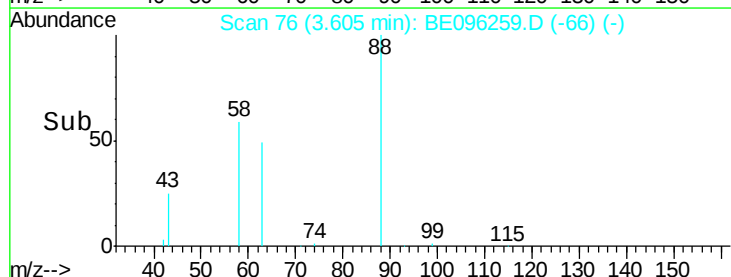
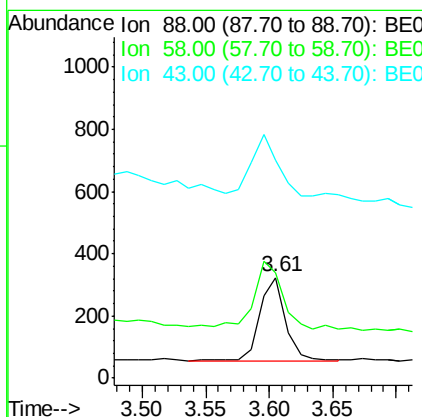
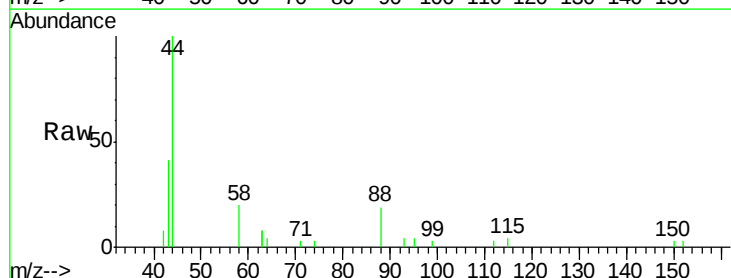
Tot Ion:152 Resp: 847
 Ion Ratio Lower Upper
 152 100
 150 140.4 117.2 175.8
 115 72.3 57.0 85.6



#2

1,4-Dioxane
 Concen: 0.296 ng
 RT: 3.61 min Scan# 76
 Delta R.T. 0.00 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Tgt Ion: 88 Resp: 387
 Ion Ratio Lower Upper
 88 100
 58 92.0 63.2 94.8
 43 74.4 41.2 61.8#



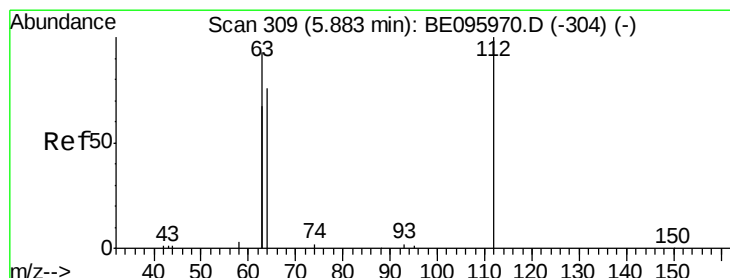
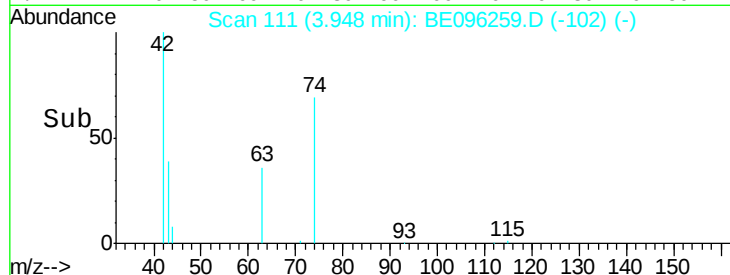
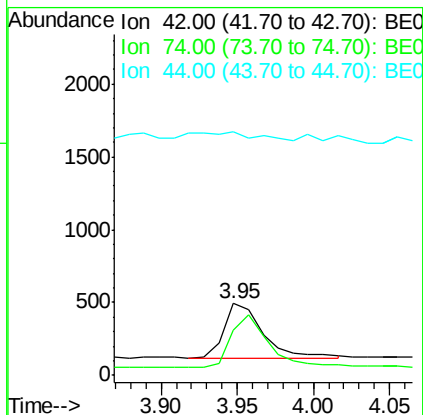
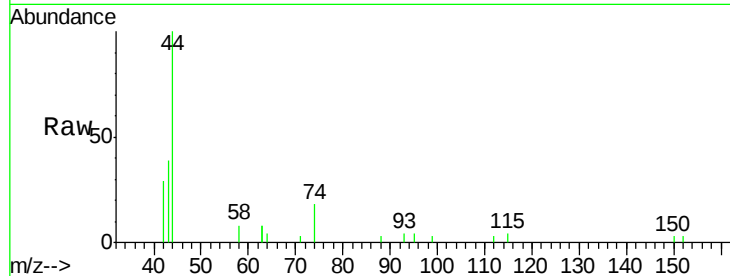


#3

n-Nitrosodimethylamine
 Concen: 0.430 ng
 RT: 3.95 min Scan# 111
 Delta R.T. -0.01 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Instrument :
 BNA_E
 ClientSampleId :

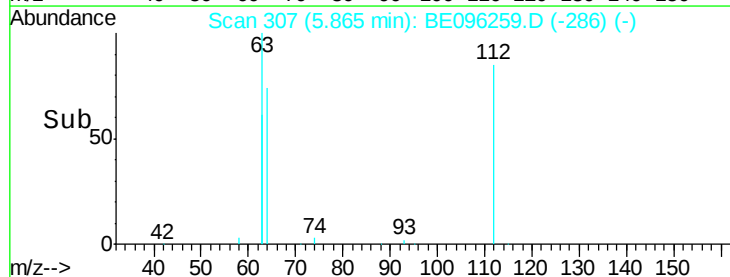
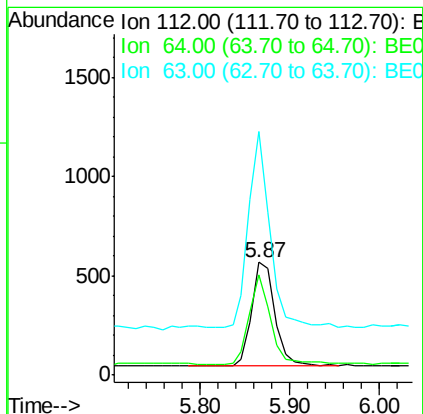
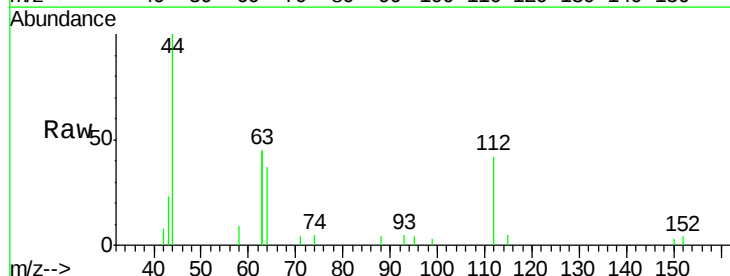
Tot Ion: 42 Resp: 690
 Ion Ratio Lower Upper
 42 100
 74 91.2 96.0 144.0#
 44 23.2 12.0 18.0#

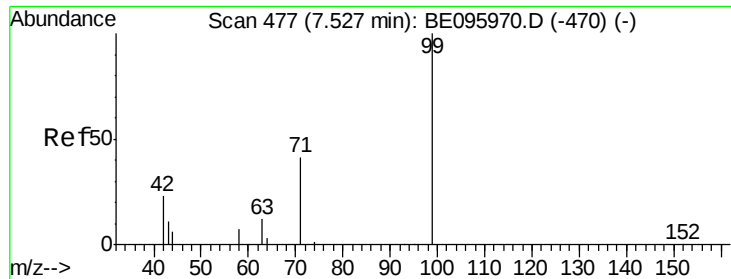


#4

2-Fluorophenol
 Concen: 0.360 ng
 RT: 5.87 min Scan# 307
 Delta R.T. 0.00 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Tgt Ion: 112 Resp: 944
 Ion Ratio Lower Upper
 112 100
 64 78.5 60.1 90.1
 63 174.9 116.8 175.2





#5

Phenol-d6

Concen: 0.361 ng

RT: 7.52 min Scan# 476

Delta R.T. 0.01 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

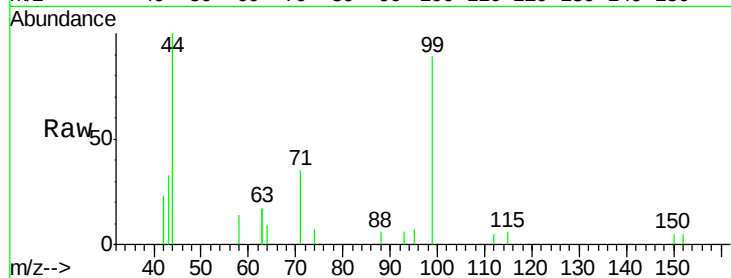
Tot Ion: 99 Resp: 1304

Ion Ratio Lower Upper

99 100

42 26.8 20.2 30.2

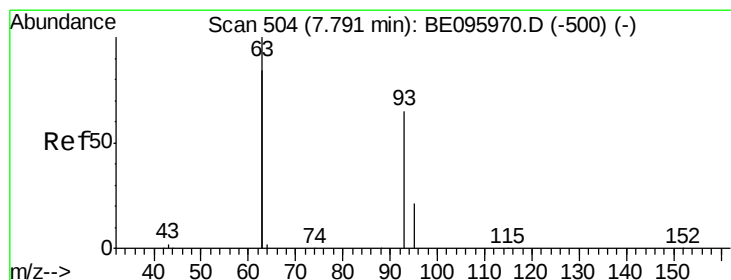
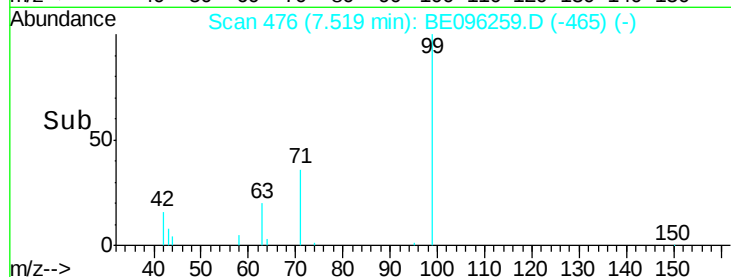
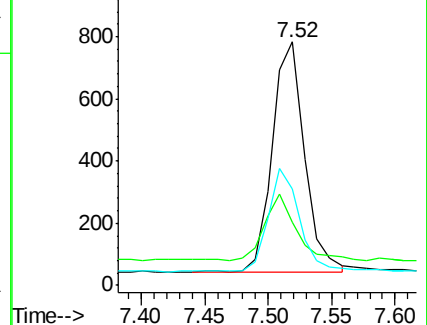
71 42.7 28.4 42.6#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.339 ng

RT: 7.75 min Scan# 500

Delta R.T. -0.01 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

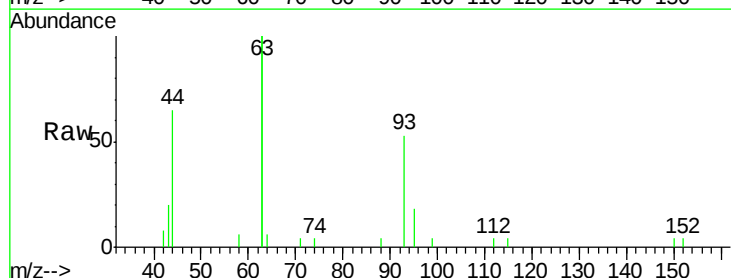
Tgt Ion: 93 Resp: 1078

Ion Ratio Lower Upper

93 100

63 338.3 275.3 412.9

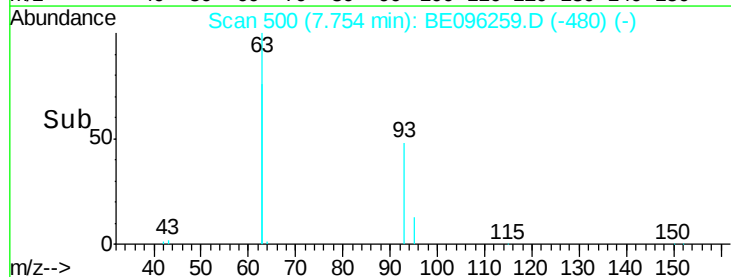
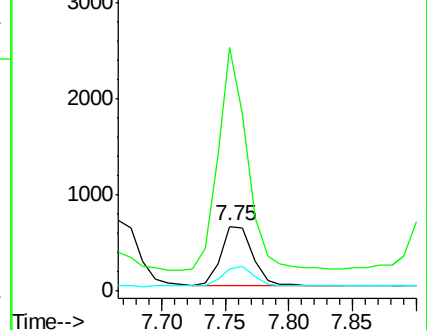
95 34.0 25.2 37.8



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

Naphthalene-d8

Concen: 0.400 ng

RT: 11.19 min Scan# 779

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampled :

Tot Ion:136 Resp: 3012

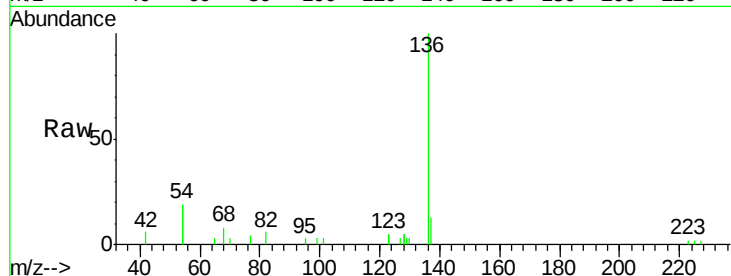
Ion Ratio Lower Upper

136 100

137 13.1 9.5 14.3

54 38.1 29.1 43.7

68 7.7 6.2 9.2

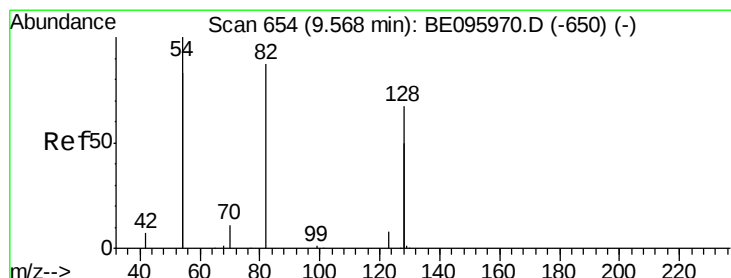
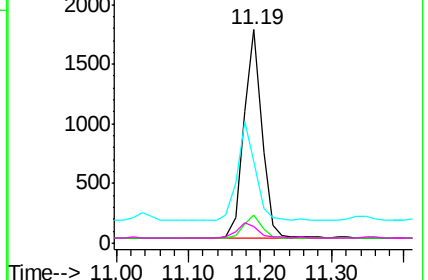
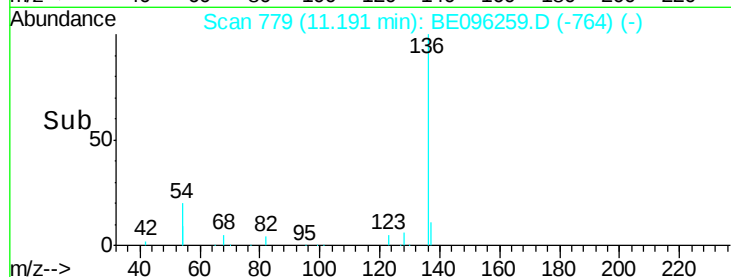


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 0.367 ng

RT: 9.54 min Scan# 652

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

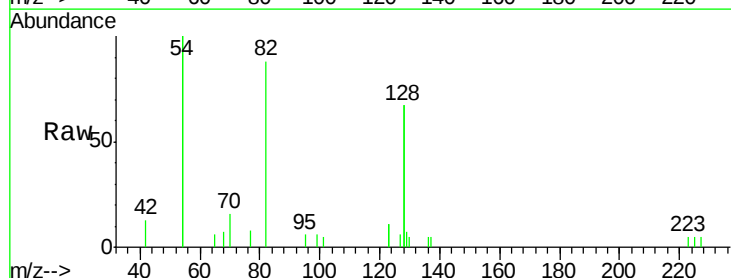
Tgt Ion: 82 Resp: 1295

Ion Ratio Lower Upper

82 100

128 152.8 150.0 225.0

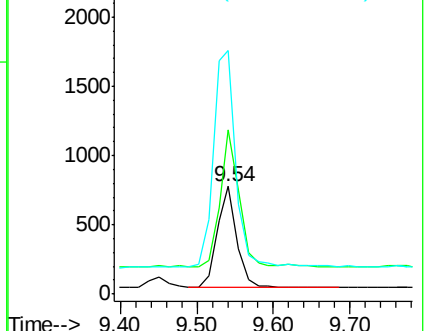
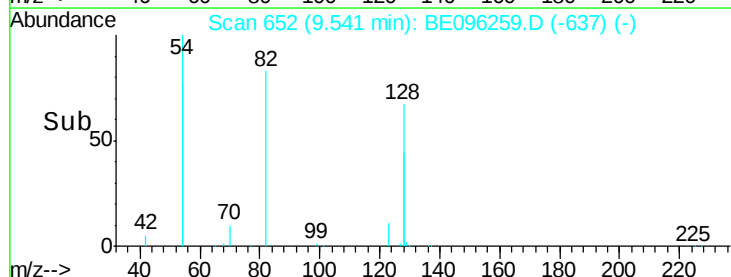
54 226.5 154.2 231.4



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





#9

Naphthalene

Concen: 0.387 ng

RT: 11.24 min Scan# 783

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

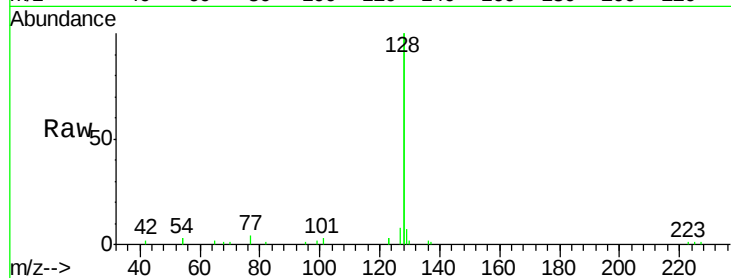
Tot Ion:128 Resp: 12286

Ion Ratio Lower Upper

128 100

129 3.3 2.6 3.8

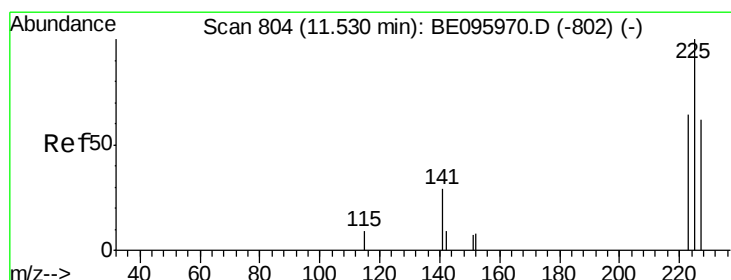
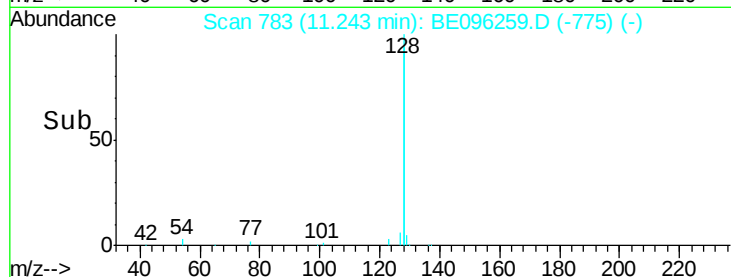
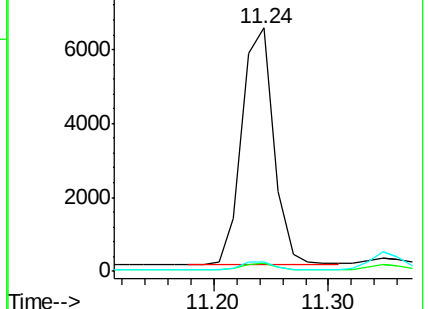
127 3.9 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.237 ng

RT: 11.50 min Scan# 803

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

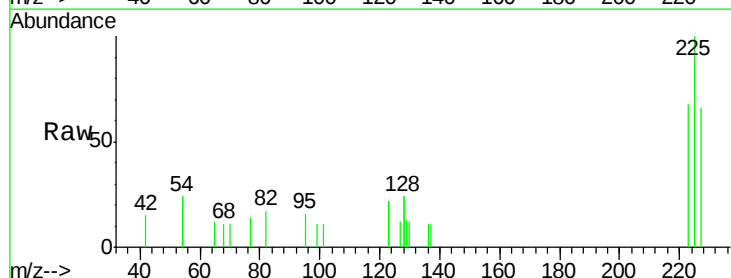
Tgt Ion:225 Resp: 333

Ion Ratio Lower Upper

225 100

223 90.1 53.0 79.6#

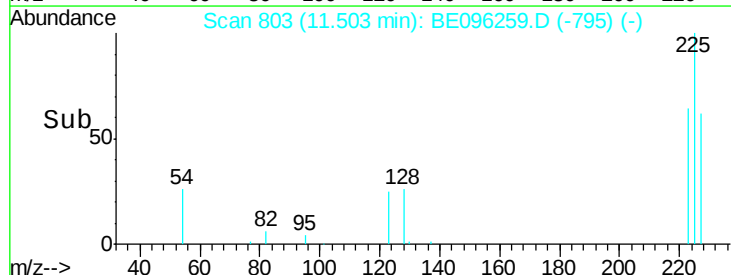
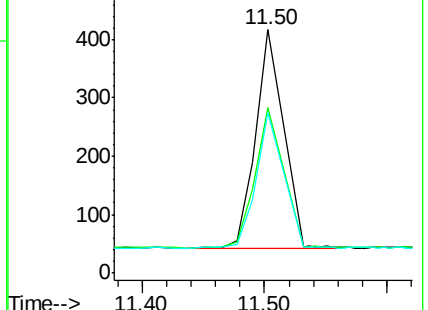
227 61.0 51.4 77.2

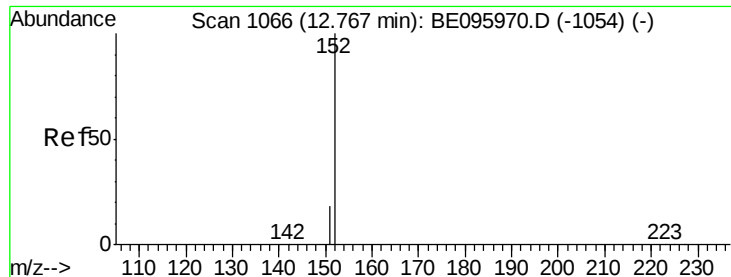


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

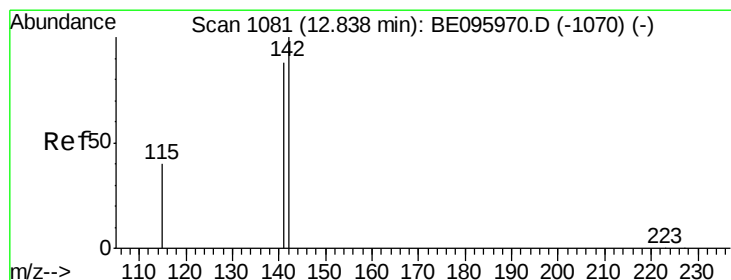
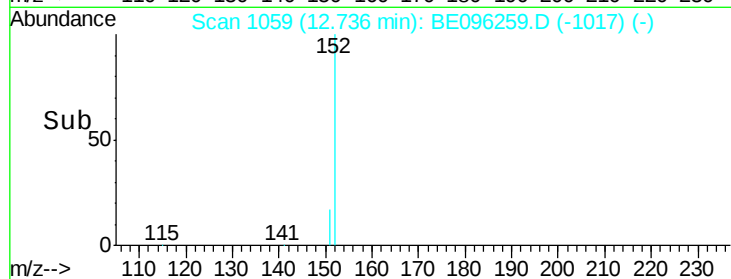
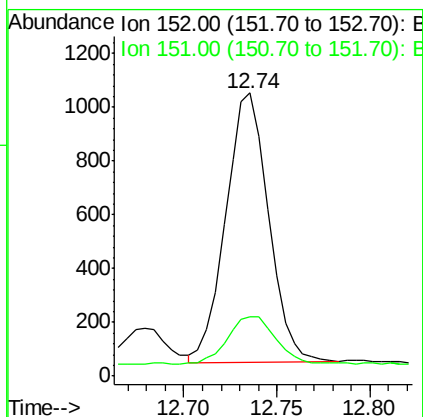
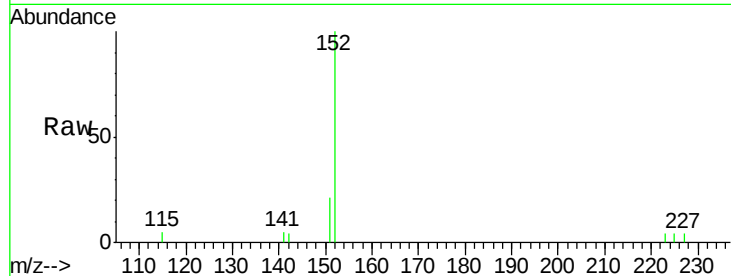




#11
 2-Methylnaphthalene-d10
 Concen: 0.335 ng
 RT: 12.74 min Scan# 1059
 Delta R.T. -0.00 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

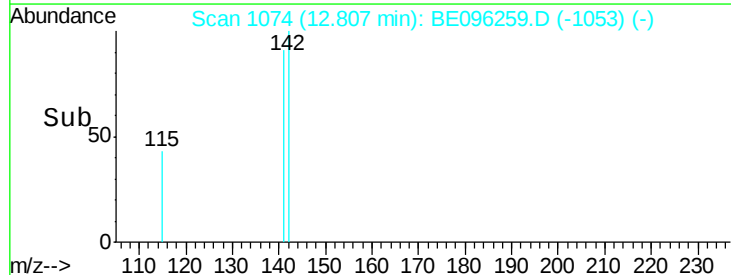
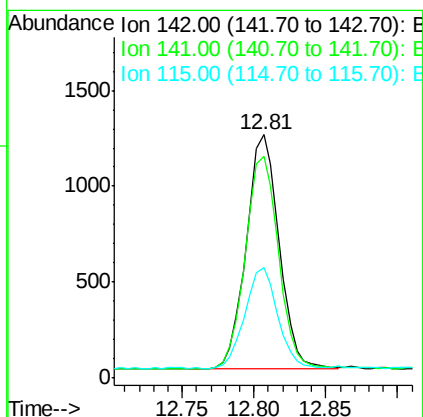
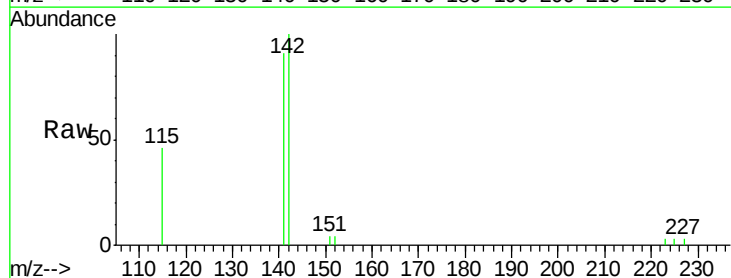
Instrument :
 BNA_E
 ClientSampleId :

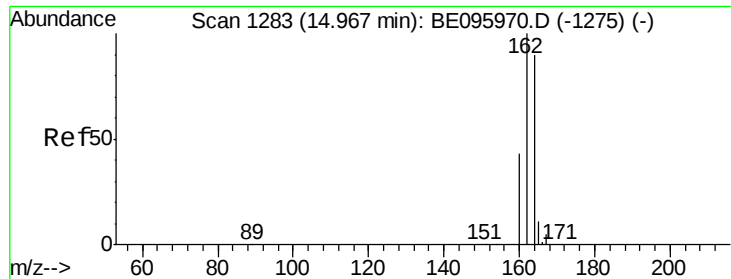
Tot Ion:152 Resp: 1601
 Ion Ratio Lower Upper
 152 100
 151 20.0 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.373 ng
 RT: 12.81 min Scan# 1074
 Delta R.T. -0.00 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Tgt Ion:142 Resp: 1958
 Ion Ratio Lower Upper
 142 100
 141 91.0 70.4 105.6
 115 45.5 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.95 min Scan# 1281

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

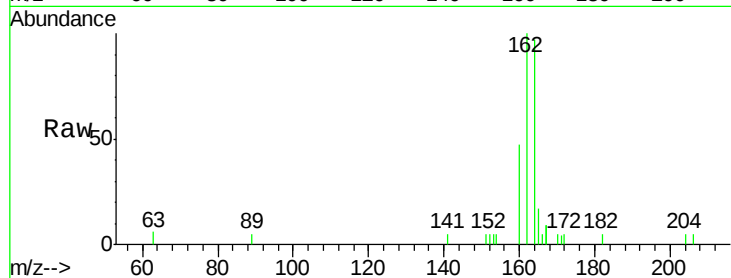
Tot Ion:164 Resp: 1488

Ion Ratio Lower Upper

164 100

162 103.0 83.1 124.7

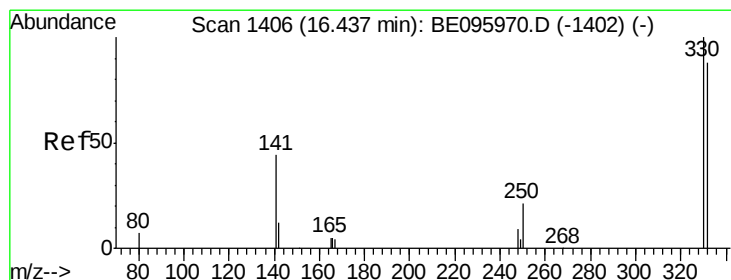
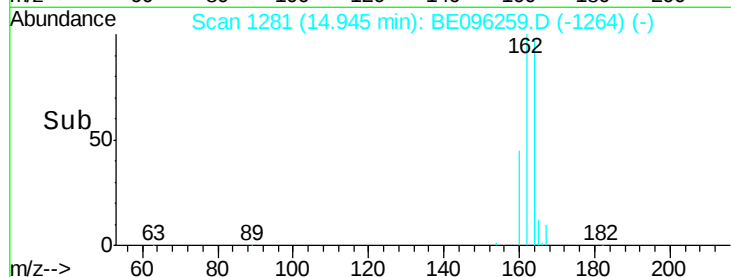
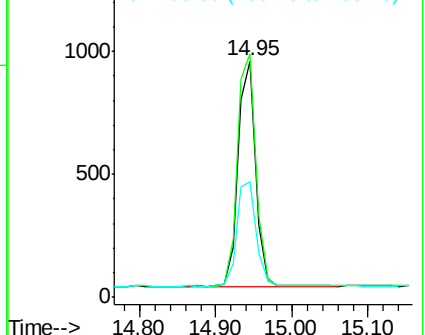
160 48.9 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.245 ng

RT: 16.41 min Scan# 1404

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

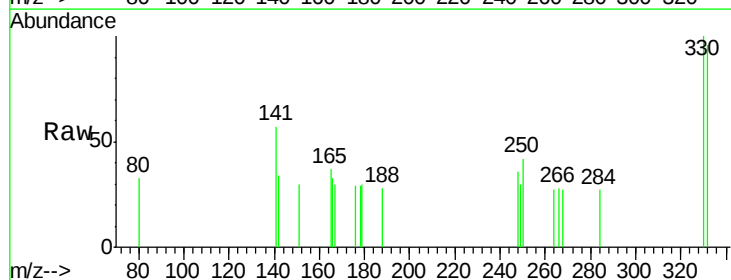
Tgt Ion:330 Resp: 176

Ion Ratio Lower Upper

330 100

332 102.3 152.7 229.1#

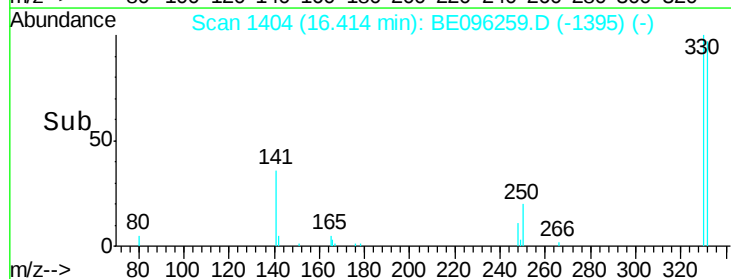
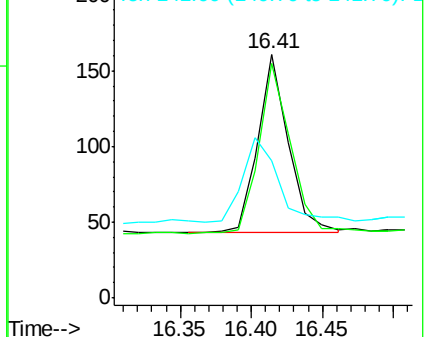
141 55.1 33.7 50.5#

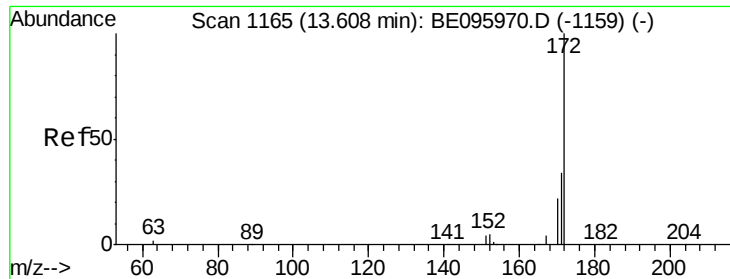


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

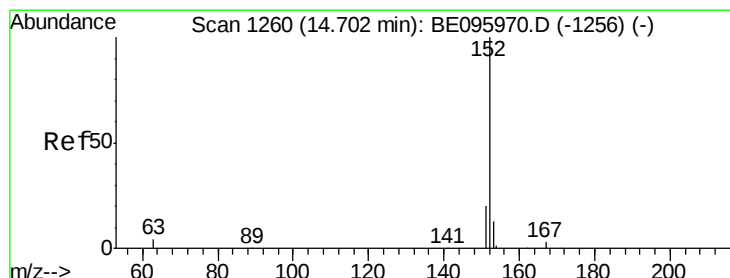
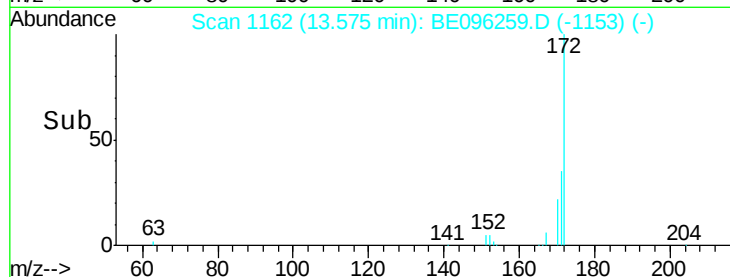
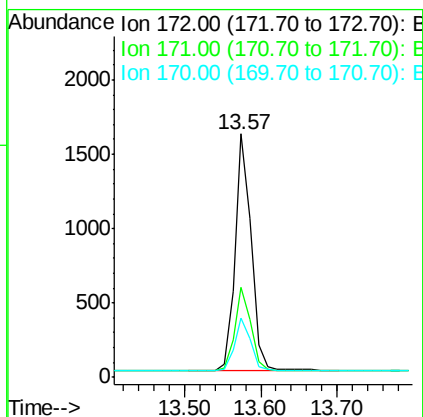
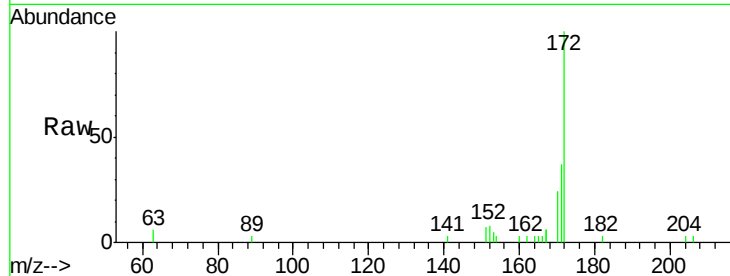




#15
2-Fluorobiphenyl
Concen: 0.376 ng
RT: 13.57 min Scan# 1162
Delta R.T. 0.00 min
Lab File: BE096259.D
Acq: 1 May 2018 16:13

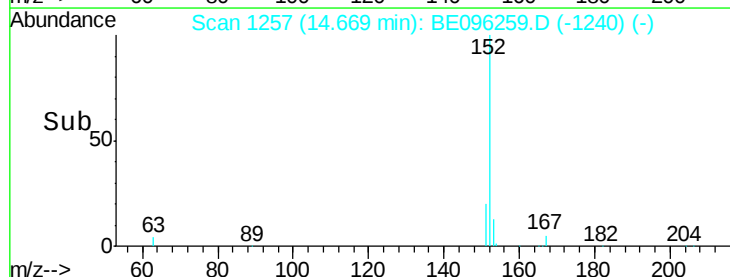
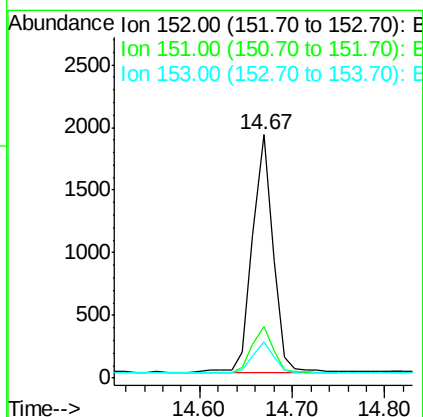
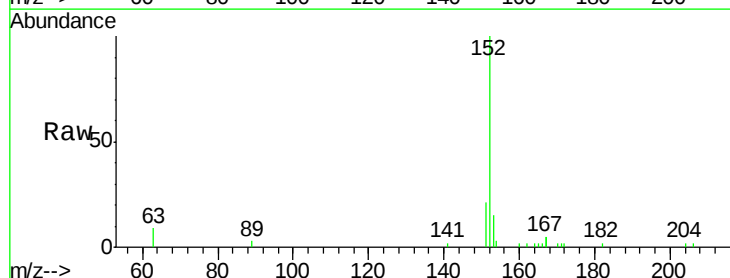
Instrument :
BNA_E
ClientSampleId :

Tot Ion:172 Resp: 2396
Ion Ratio Lower Upper
172 100
171 37.0 29.9 44.9
170 24.4 21.8 32.8



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.67 min Scan# 1257
Delta R.T. 0.00 min
Lab File: BE096259.D
Acq: 1 May 2018 16:13

Tgt Ion:152 Resp: 2938
Ion Ratio Lower Upper
152 100
151 20.3 15.7 23.5
153 13.2 10.5 15.7





#17

Acenaphthene

Concen: 0.368 ng

RT: 15.00 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

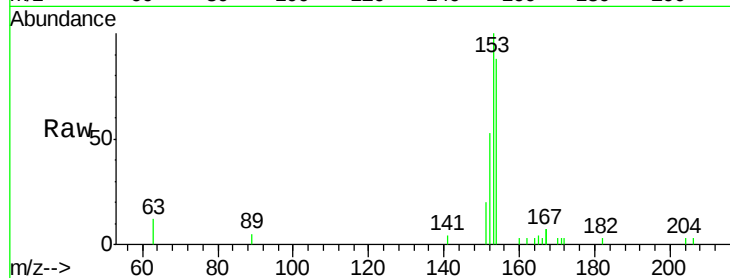
Tot Ion:154 Resp: 1757

Ion Ratio Lower Upper

154 100

153 114.7 89.2 133.8

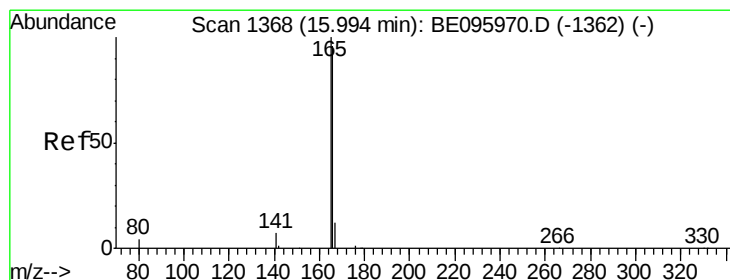
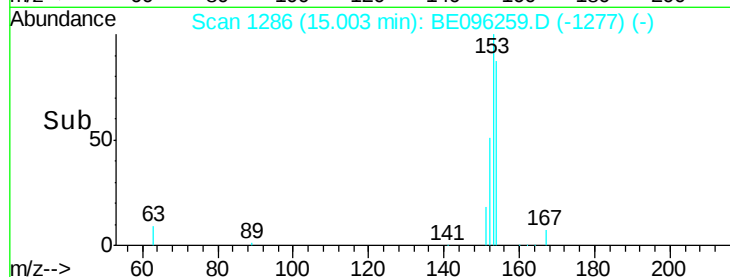
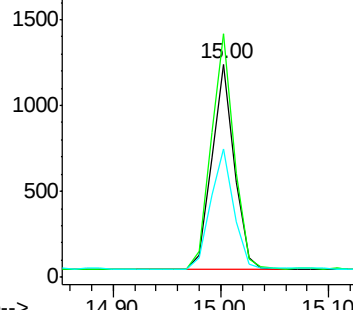
152 59.9 42.0 63.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.378 ng

RT: 15.97 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

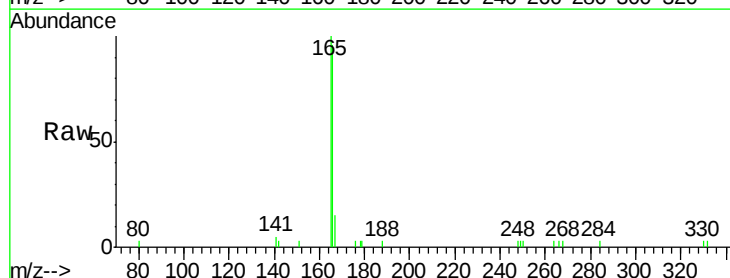
Tgt Ion:166 Resp: 2231

Ion Ratio Lower Upper

166 100

165 104.2 77.8 116.6

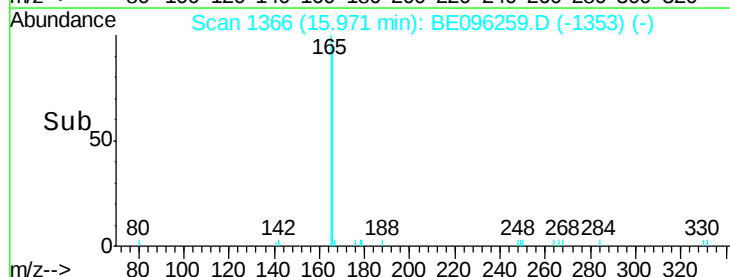
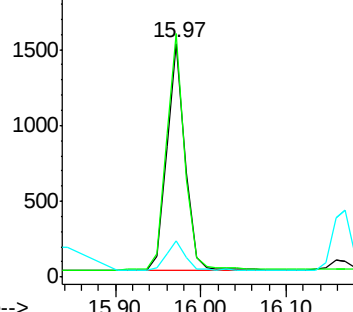
167 13.8 42.4 63.6#



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: 17.65 min Scan# 1510

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

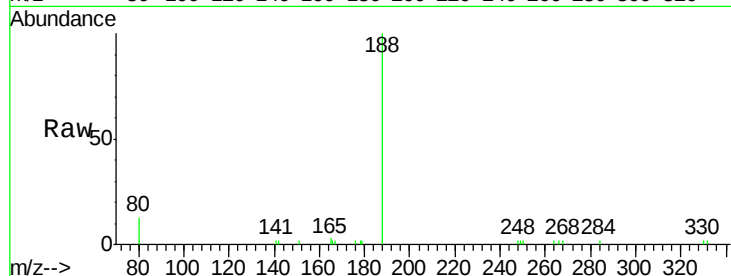
Tot Ion:188 Resp: 3351

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

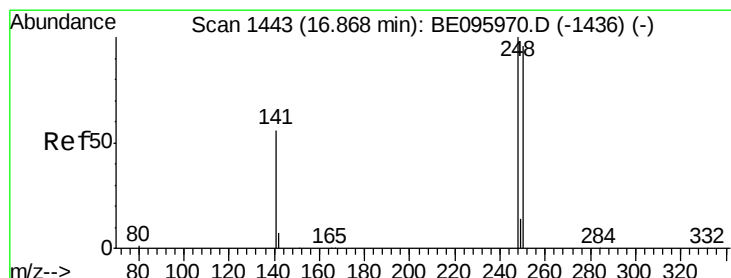
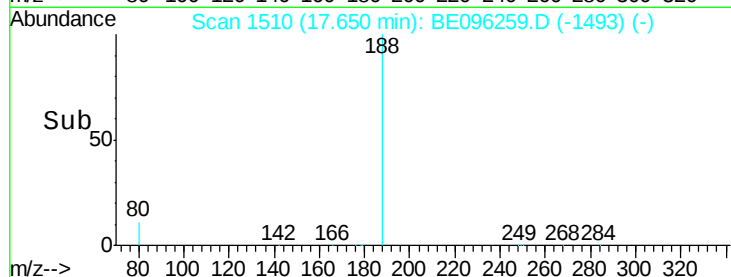
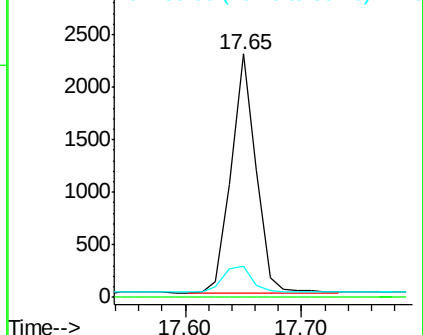
80 12.8 3.6 5.4#



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



#20

4-Bromophenyl-phenylether

Concen: 0.348 ng

RT: 16.83 min Scan# 1440

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

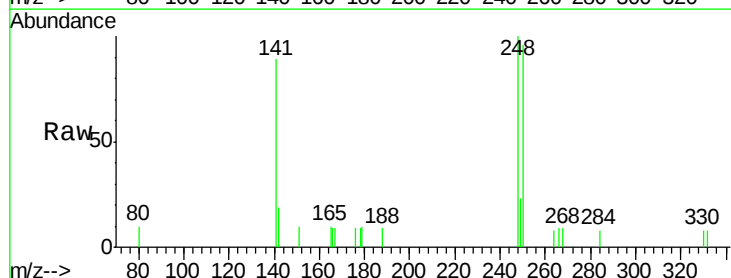
Tgt Ion:248 Resp: 692

Ion Ratio Lower Upper

248 100

250 95.6 62.7 94.1#

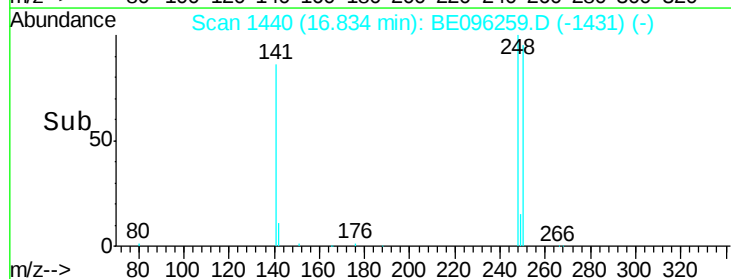
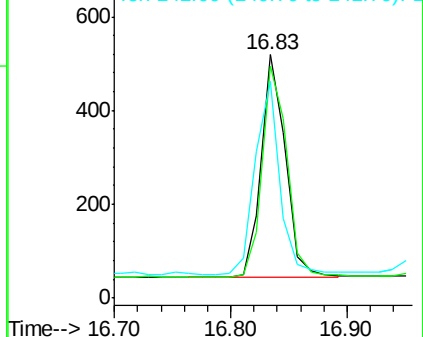
141 88.8 48.2 72.2#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.345 ng

RT: 16.96 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

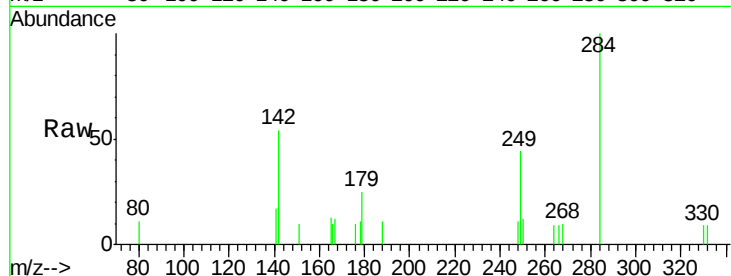
Tot Ion:284 Resp: 684

Ion Ratio Lower Upper

284 100

142 45.8 22.1 33.1#

249 35.8 34.8 52.2



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

16.96

400

300

200

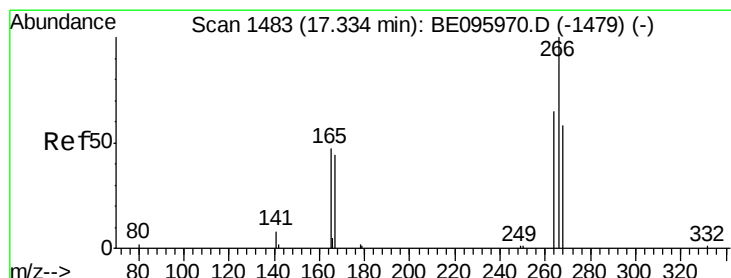
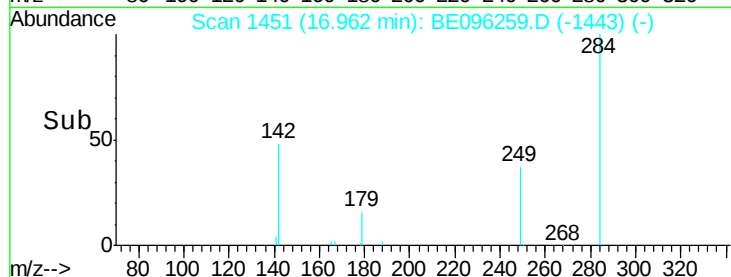
100

0

16.90

17.00

Time-->



#22

Pentachlorophenol

Concen: 0.329 ng

RT: 17.31 min Scan# 1481

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

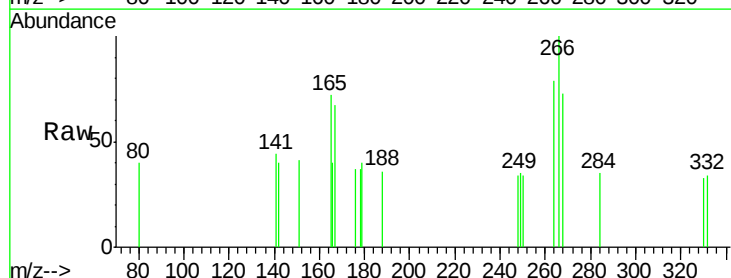
Tgt Ion:266 Resp: 177

Ion Ratio Lower Upper

266 100

264 78.6 72.5 108.7

268 73.3 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

17.31

150

100

50

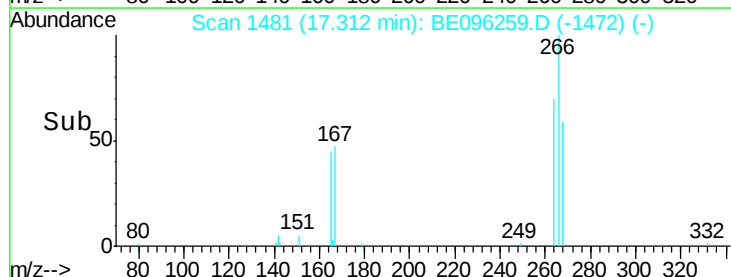
0

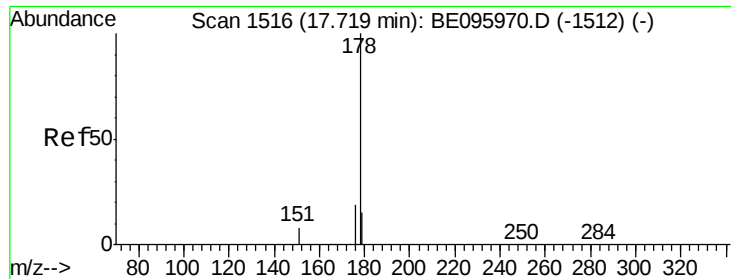
17.20

17.30

17.40

Time-->





#23

Phenanthrene

Concen: 0.388 ng

RT: 17.70 min Scan# 1514

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

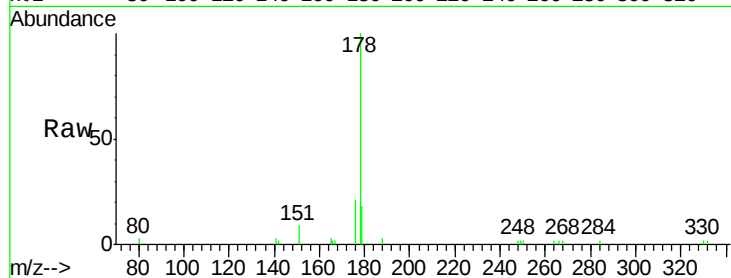
Tot Ion:178 Resp: 3657

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

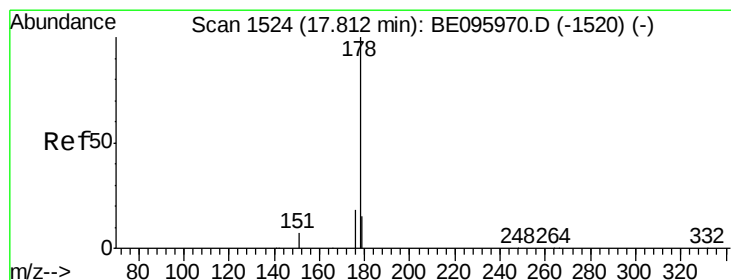
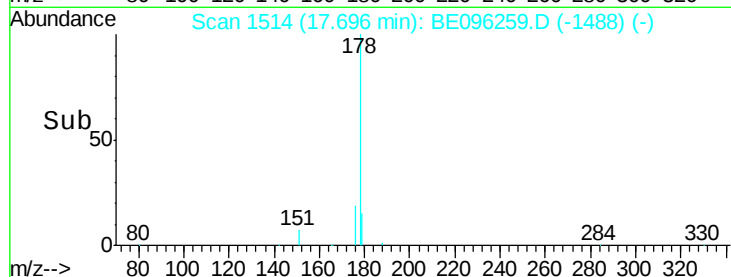
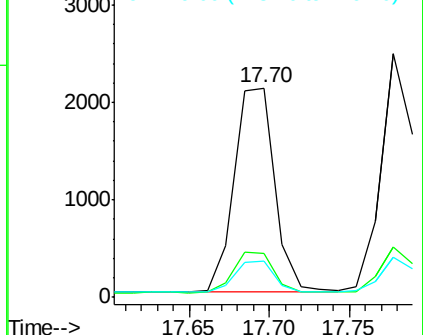
179 15.3 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.408 ng

RT: 17.78 min Scan# 1521

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

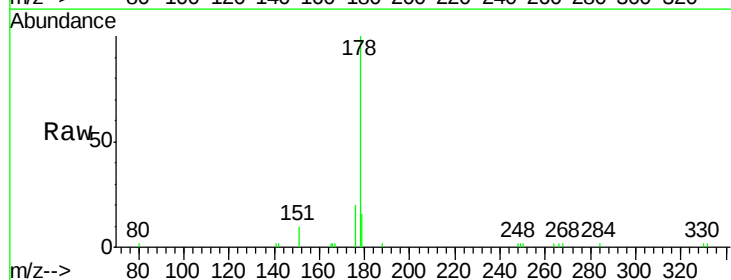
Tgt Ion:178 Resp: 3674

Ion Ratio Lower Upper

178 100

176 19.3 12.8 19.2#

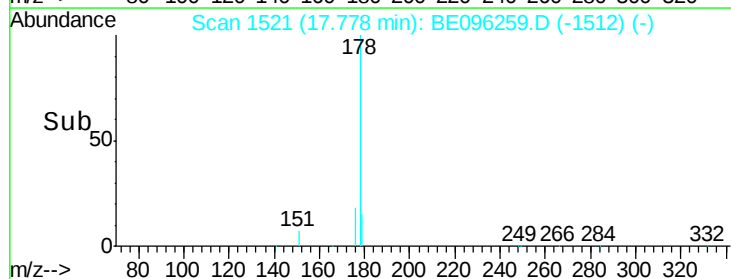
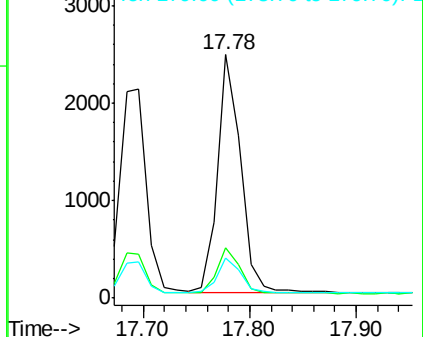
179 14.9 13.0 19.6

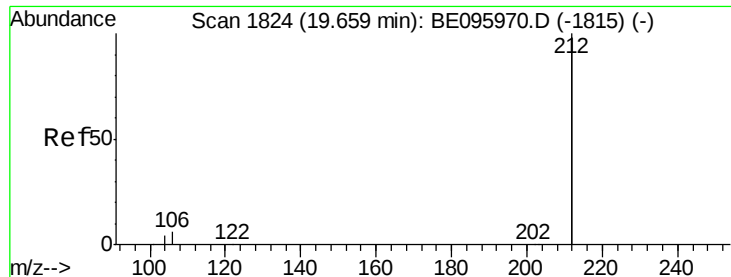


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.379 ng

RT: 19.64 min Scan# 1820

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

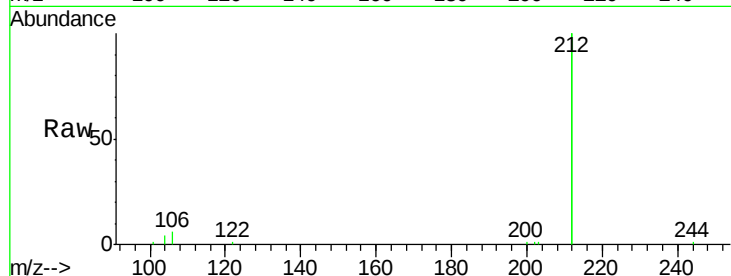
Tot Ion:212 Resp: 17231

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

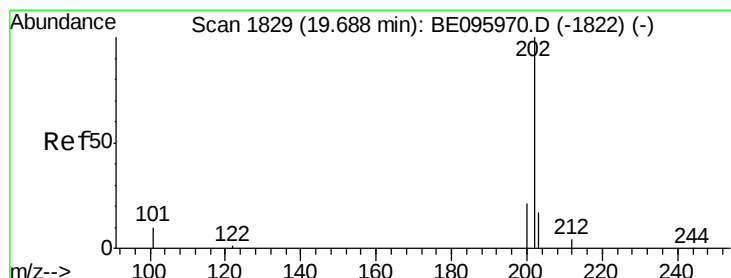
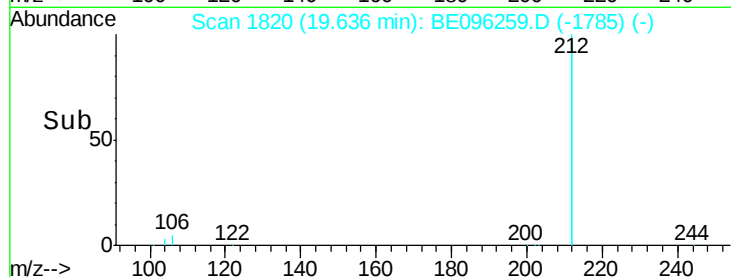
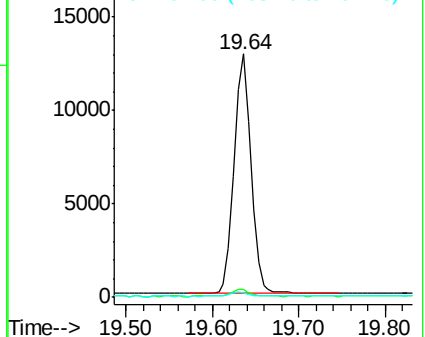
104 1.9 1.6 2.4



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.410 ng

RT: 19.66 min Scan# 1825

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

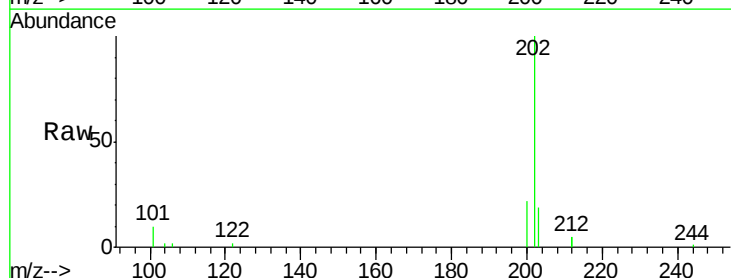
Tgt Ion:202 Resp: 5067

Ion Ratio Lower Upper

202 100

101 10.4 9.8 14.8

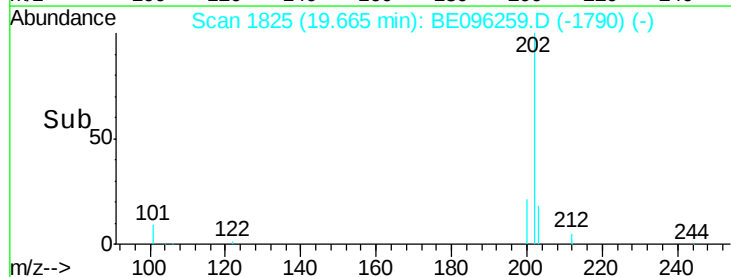
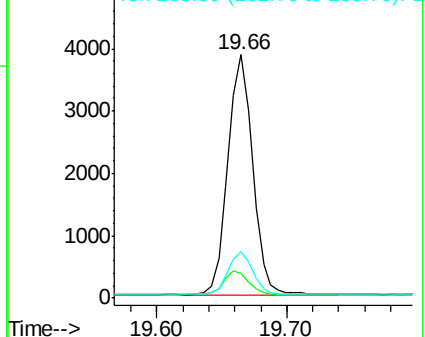
203 17.3 13.7 20.5



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: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

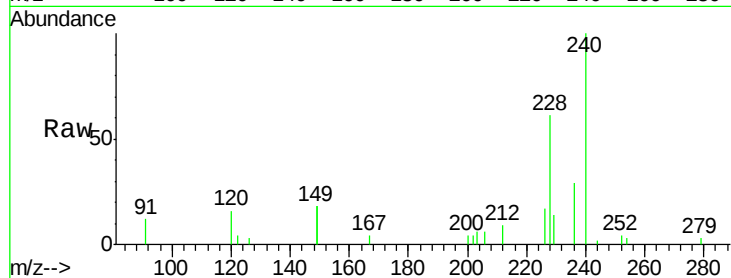
Tot Ion:240 Resp: 4119

Ion Ratio Lower Upper

240 100

120 16.4 5.5 8.3#

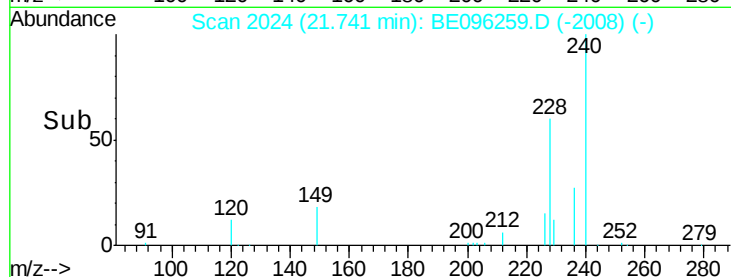
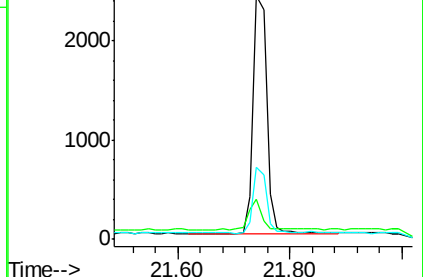
236 29.4 20.7 31.1



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: 0.036 ng

RT: 20.00 min Scan# 1883

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

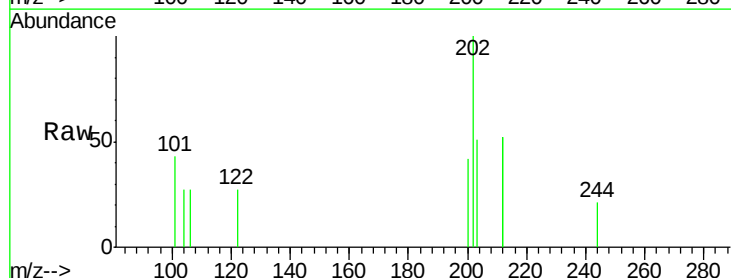
Tgt Ion:202 Resp: 294

Ion Ratio Lower Upper

202 100

200 25.9 16.6 25.0#

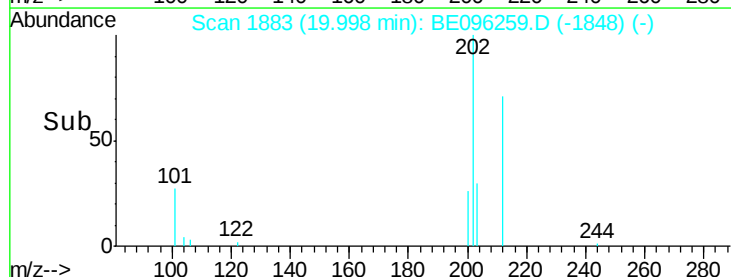
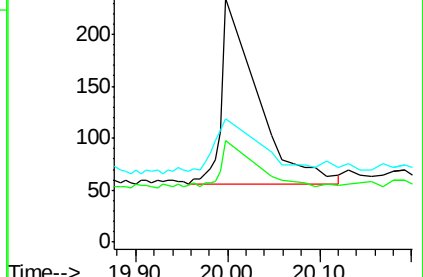
203 42.2 13.8 20.8#



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: 0.305 ng

RT: 20.19 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampled :

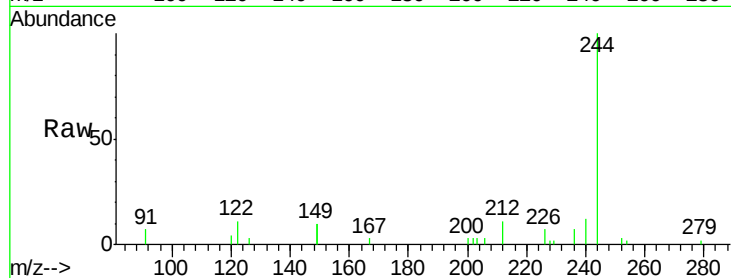
Tot Ion:244 Resp: 2780

Ion Ratio Lower Upper

244 100

212 11.4 25.4 38.0#

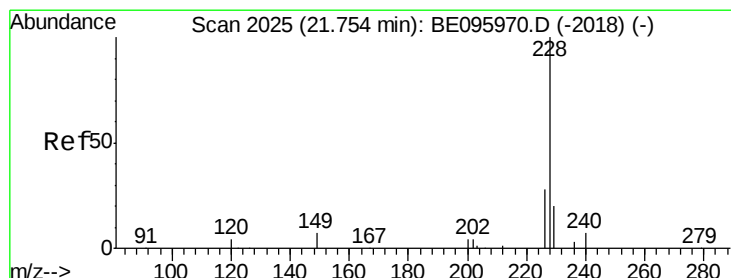
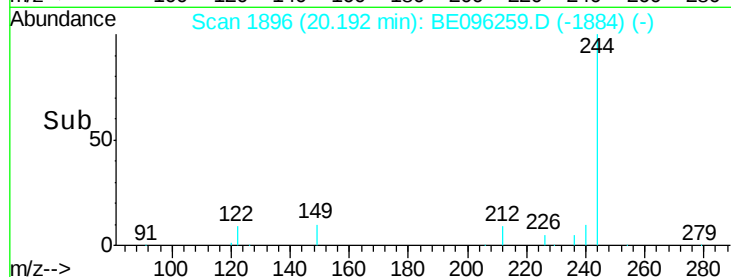
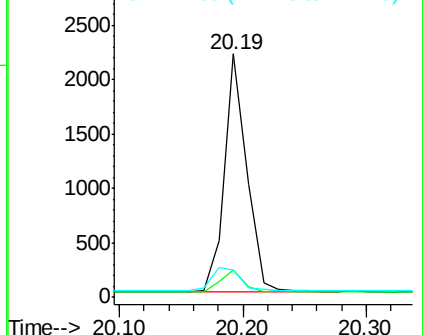
122 11.4 8.1 12.1



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: 0.396 ng

RT: 21.73 min Scan# 2023

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

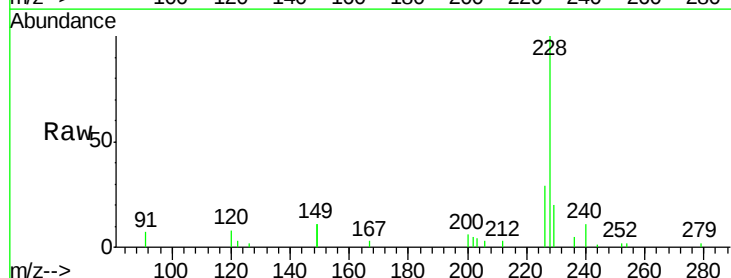
Tgt Ion:228 Resp: 5227

Ion Ratio Lower Upper

228 100

226 28.5 24.0 36.0

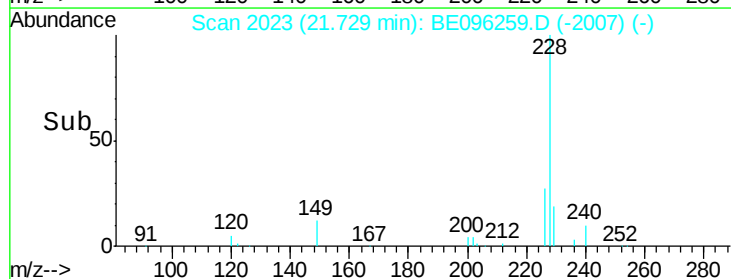
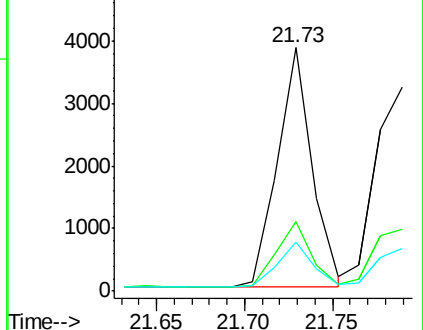
229 20.3 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.392 ng

RT: 21.79 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampled :

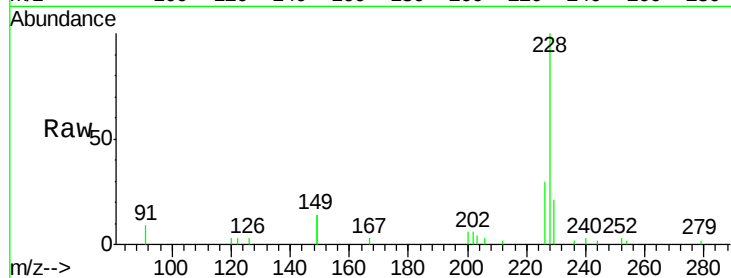
Tot Ion:228 Resp: 5007

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

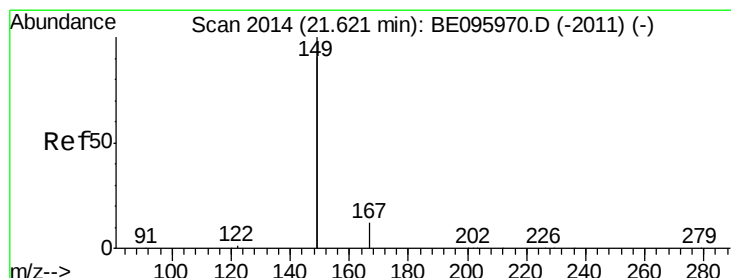
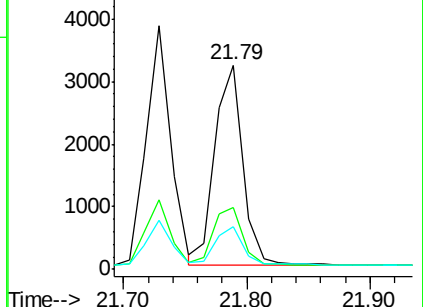
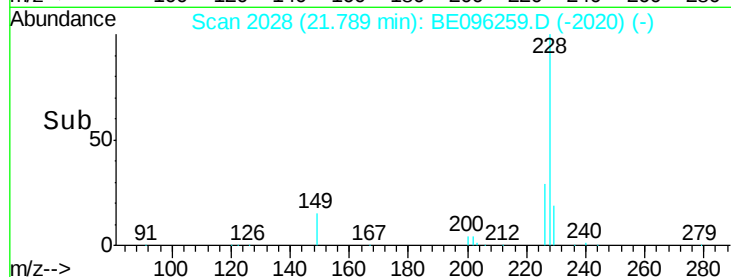
229 21.1 16.0 24.0



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: 0.395 ng

RT: 21.60 min Scan# 2012

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

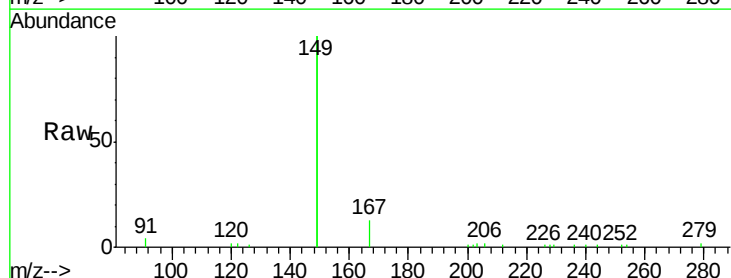
Tgt Ion:149 Resp: 13451

Ion Ratio Lower Upper

149 100

167 6.6 5.4 8.0

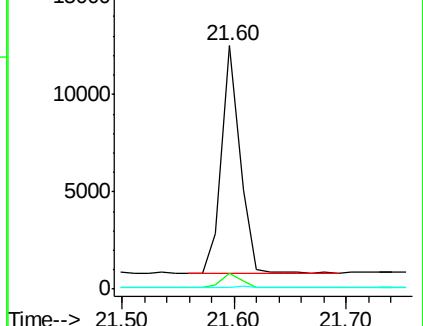
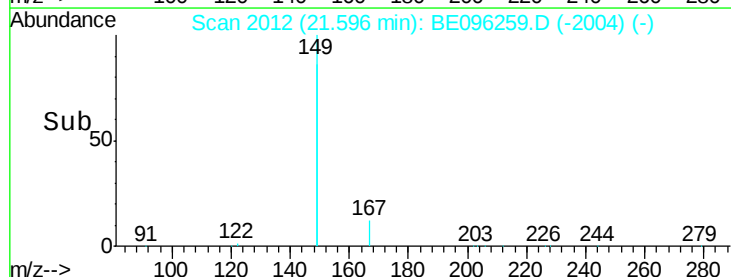
279 0.7 0.7 1.1



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

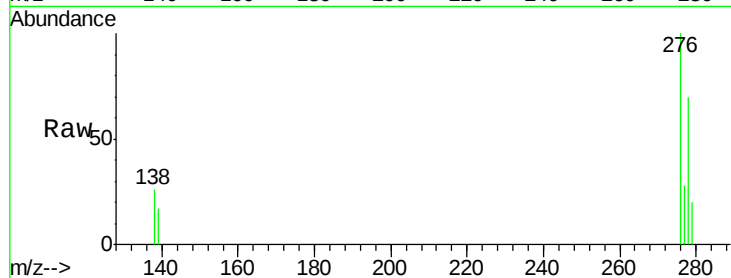




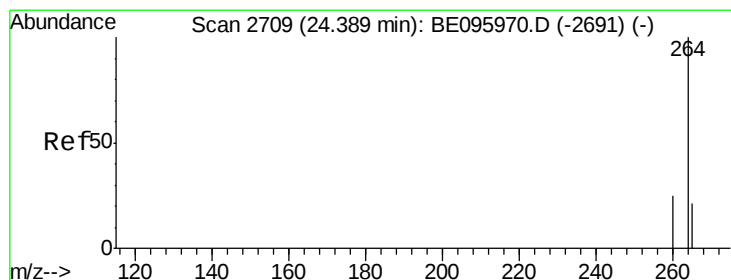
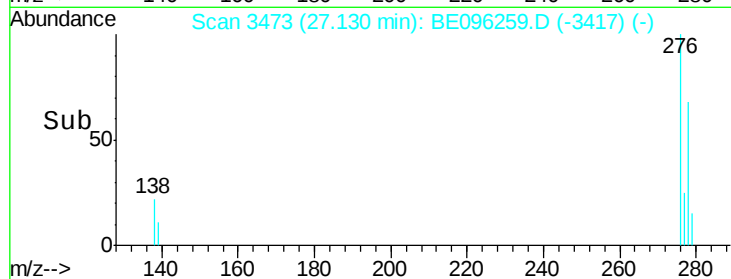
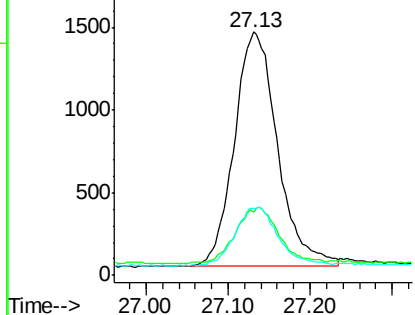
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.419 ng
 RT: 27.13 min Scan# 3473
 Delta R.T. 0.00 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion:276 Resp: 5181
 Ion Ratio Lower Upper
 276 100
 138 23.1 22.5 33.7
 277 24.9 19.9 29.9

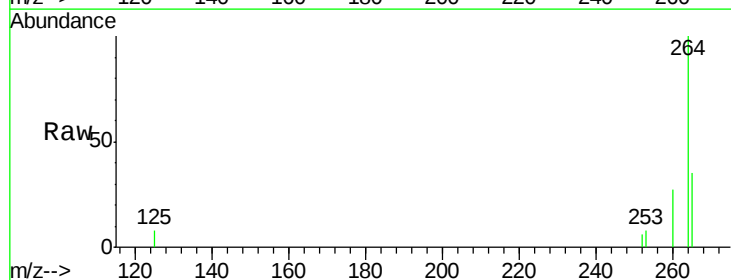


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

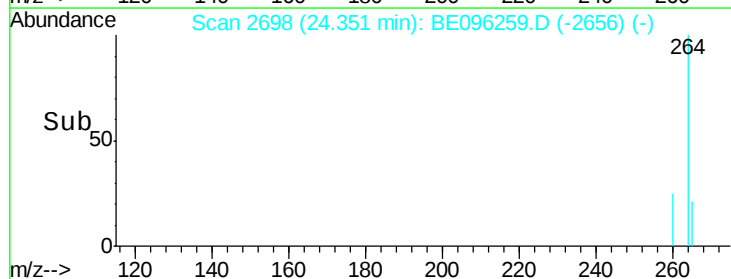
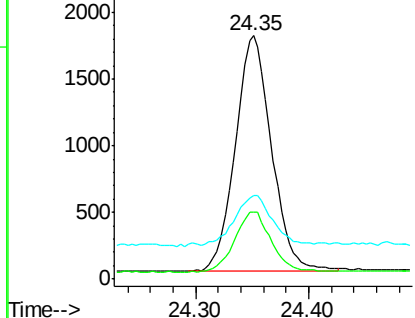


#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.35 min Scan# 2698
 Delta R.T. -0.00 min
 Lab File: BE096259.D
 Acq: 1 May 2018 16:13

Tgt Ion:264 Resp: 3940
 Ion Ratio Lower Upper
 264 100
 260 27.3 20.5 30.7
 265 34.6 22.8 34.2#



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.424 ng

RT: 23.54 min Scan# 2471

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

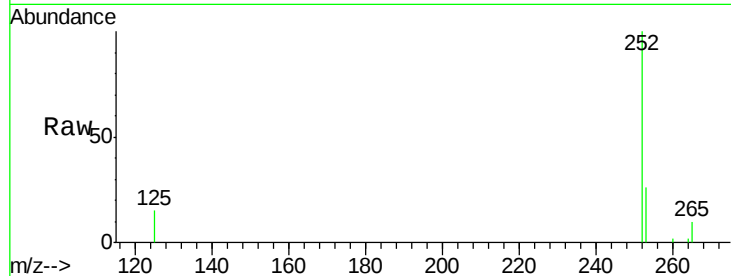
Tot Ion:252 Resp: 5011

Ion Ratio Lower Upper

252 100

253 25.7 20.0 30.0

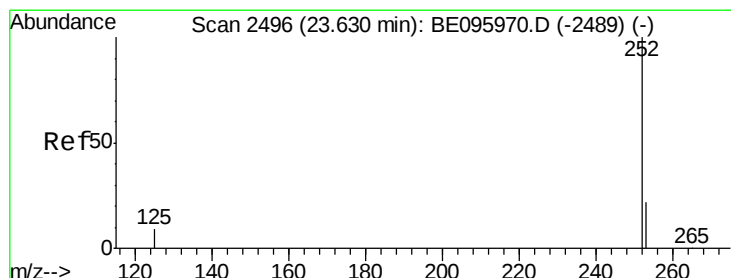
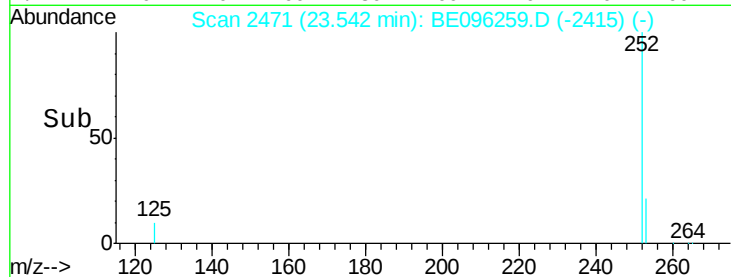
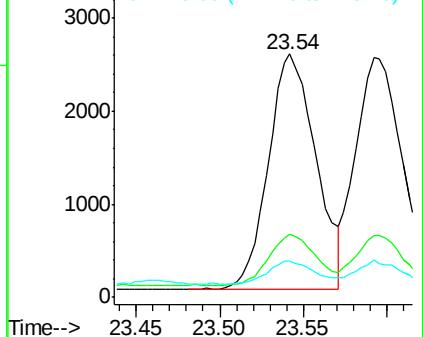
125 14.7 16.0 24.0#



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: 0.400 ng

RT: 23.59 min Scan# 2485

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

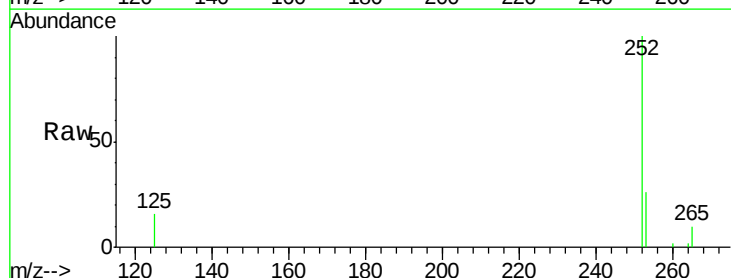
Tgt Ion:252 Resp: 4861

Ion Ratio Lower Upper

252 100

253 25.8 16.0 24.0#

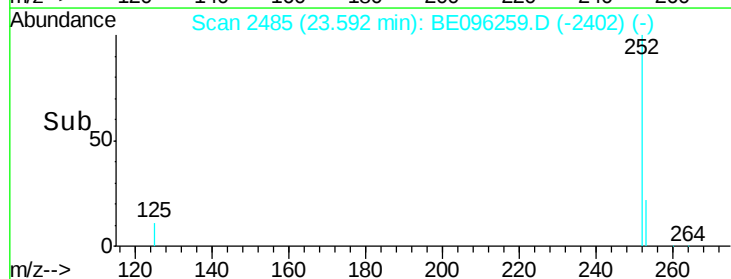
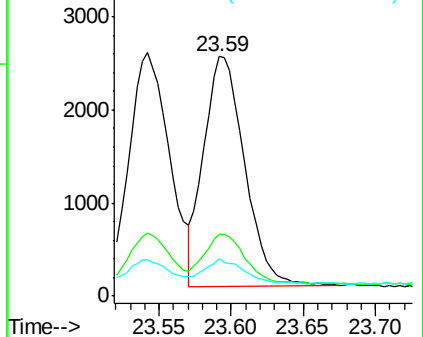
125 15.6 8.0 12.0#



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: 0.418 ng

RT: 24.23 min Scan# 2665

Delta R.T. -0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :

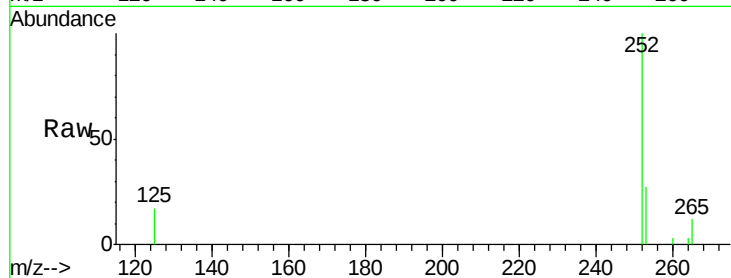
Tot Ion:252 Resp: 4753

Ion Ratio Lower Upper

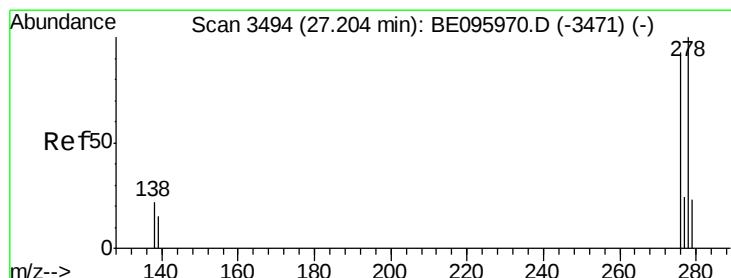
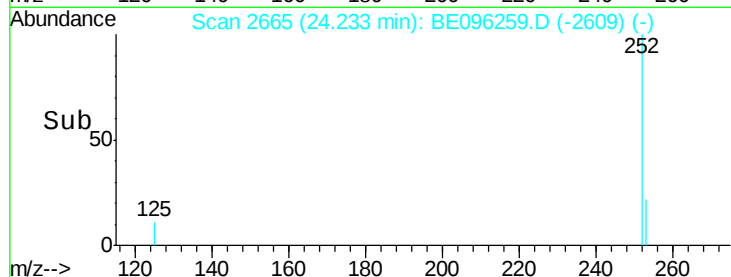
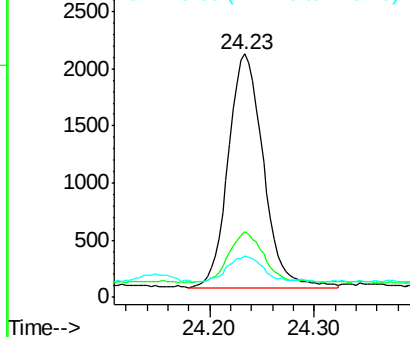
252 100

253 27.2 16.0 24.0#

125 16.9 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.424 ng

RT: 27.14 min Scan# 3477

Delta R.T. 0.00 min

Lab File: BE096259.D

Acq: 1 May 2018 16:13

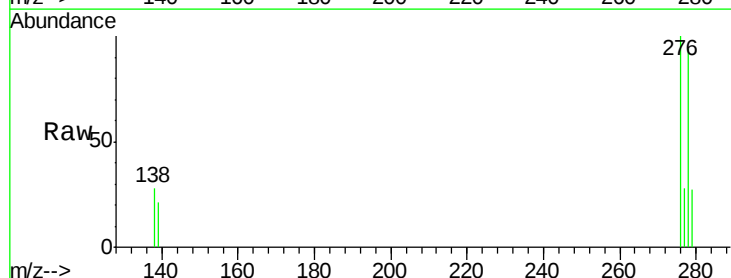
Tgt Ion:278 Resp: 4251

Ion Ratio Lower Upper

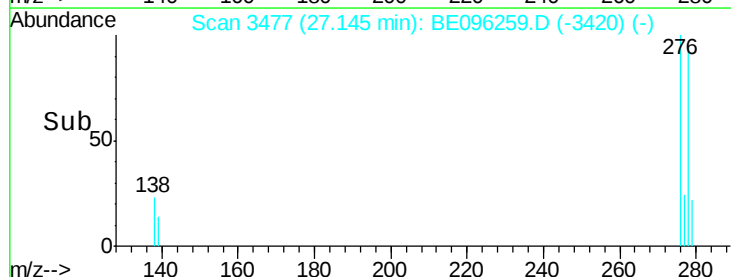
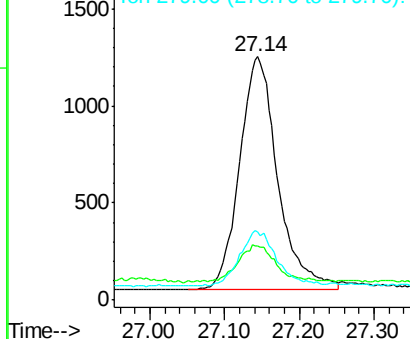
278 100

139 22.0 16.0 24.0

279 28.1 20.0 30.0



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





#39

Benzo(a,h,i)perylene

Concen: 0.416 ng

RT: 28.00 min Scan# 3716

Delta R.T. 0.00 min

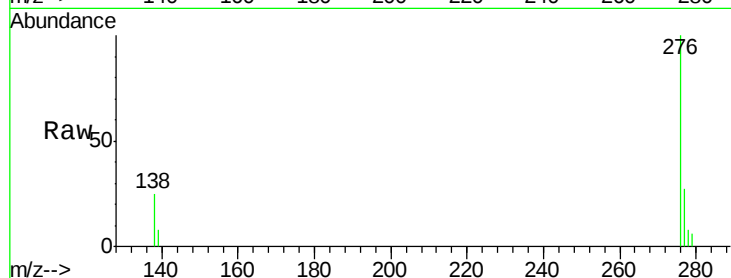
Lab File: BE096259.D

Acq: 1 May 2018 16:13

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 4403

Ion Ratio Lower Upper

276 100

277 26.5 16.0 24.0#

138 25.5 20.0 30.0

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

