

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE072318\
 Data File : BE097032.D
 Acq On : 23 Jul 2018 11:34
 Operator : SJ/JU
 Sample : J4014-09MSD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RE104D3-071318MSD

Quant Time: Jul 23 12:14:34 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 11:34:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	1747	0.40	ng	0.00
7) Naphthalene-d8	10.15	136	7775	0.40	ng	0.00
13) Acenaphthene-d10	14.01	164	4221	0.40	ng	0.00
19) Phenanthrene-d10	16.77	188	12844	0.40	ng	0.00
27) Chrysene-d12	20.98	240	14061	0.40	ng	0.00
34) Perylene-d12	23.21	264	12094	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.05	112	668	0.16	ng	0.00
5) Phenol-d6	6.60	99	545	0.09	ng	0.00
8) Nitrobenzene-d5	8.52	82	2455	0.43	ng	0.00
11) 2-Methylnaphthalene-d10	11.73	152	4752	0.42	ng	0.00
14) 2,4,6-Tribromophenol	15.52	330	400	0.43	ng	0.00
15) 2-Fluorobiphenyl	12.63	172	8228	0.52	ng	0.00
25) Fluoranthene-d10	18.81	212	60328	0.54	ng	0.00
29) Terphenyl-d14	19.43	244	12868	0.47	ng	0.00

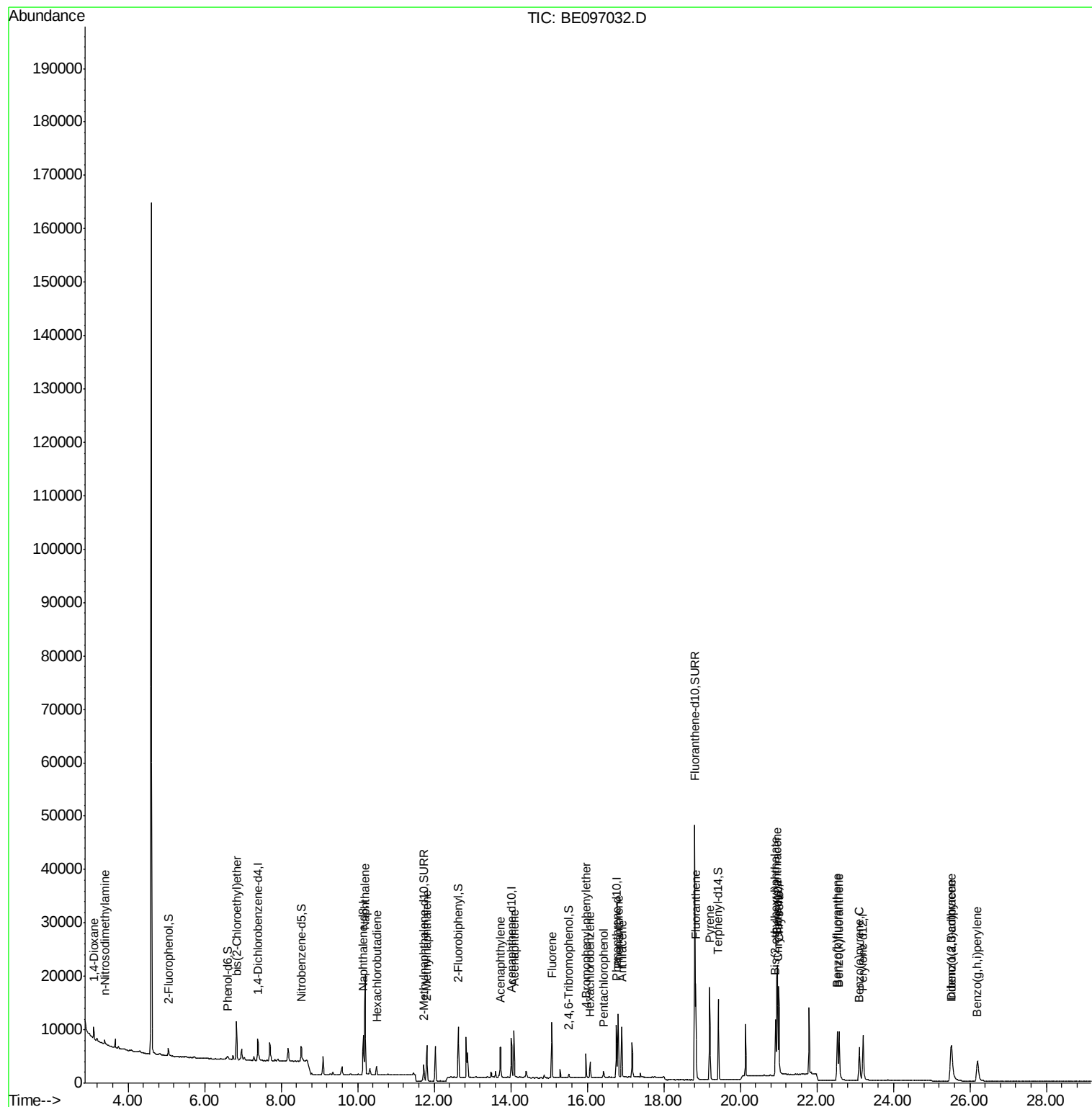
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.09	88	1190	0.476	ng	93
3) n-Nitrosodimethylamine	3.38	42	455	0.162	ng	# 88
6) bis(2-Chloroethyl)ether	6.84	93	2267	0.362	ng	97
9) Naphthalene	10.20	128	28754	0.413	ng	99
10) Hexachlorobutadiene	10.50	225	1172	0.417	ng	97
12) 2-Methylnaphthalene	11.80	142	4649	0.394	ng	97
16) Acenaphthylene	13.74	152	7173	0.372	ng	100
17) Acenaphthene	14.08	154	4353	0.363	ng	# 92
18) Fluorene	15.08	166	5959	0.443	ng	# 79
20) 4-Bromophenyl-phenylether	15.97	248	2244	0.369	ng	# 84
21) Hexachlorobenzene	16.08	284	2232	0.331	ng	# 83
22) Pentachlorophenol	16.43	266	642	0.608	ng	# 76
23) Phenanthrene	16.81	178	12716	0.413	ng	99
24) Anthracene	16.90	178	11177	0.418	ng	95
26) Fluoranthene	18.84	202	15847	0.488	ng	98
28) Pyrene	19.20	202	16039	0.386	ng	99
30) Benzo(a)anthracene	20.96	228	14332	0.428	ng	97
31) Chrysene	21.00	228	15349	0.409	ng	97
32) Bis(2-ethylhexyl)phthalate	20.92	149	13974	0.418	ng	99
33) Indeno(1,2,3-cd)pyrene	25.50	276	12653	0.462	ng	# 92
35) Benzo(b)fluoranthene	22.54	252	12174	0.394	ng	# 87
36) Benzo(k)fluoranthene	22.58	252	14680	0.400	ng	97
37) Benzo(a)pyrene	23.11	252	11141	0.418	ng	# 93
38) Dibenzo(a,h)anthracene	25.52	278	10452	0.464	ng	96
39) Benzo(g,h,i)perylene	26.20	276	10462	0.417	ng	# 90

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.39 min Scan# 393

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

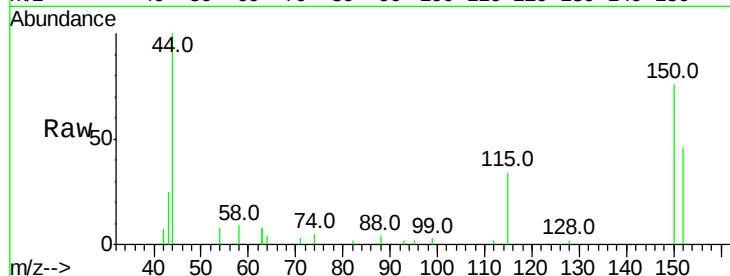
Tot Ion:152 Resp: 1747

Ion Ratio Lower Upper

152 100

150 167.1 117.2 175.8

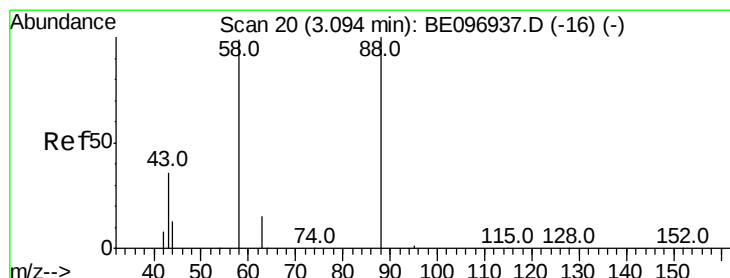
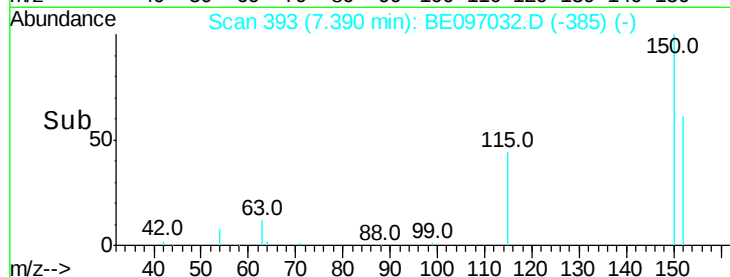
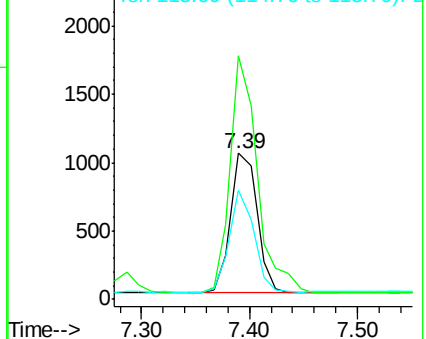
115 74.6 57.0 85.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.476 ng

RT: 3.09 min Scan# 20

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

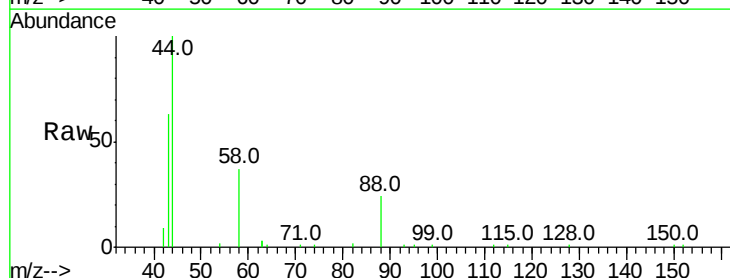
Tgt Ion: 88 Resp: 1190

Ion Ratio Lower Upper

88 100

58 81.7 63.2 94.8

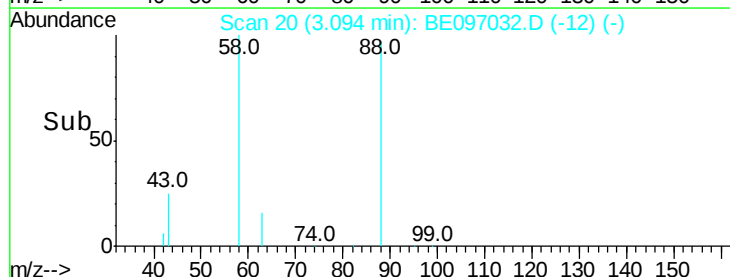
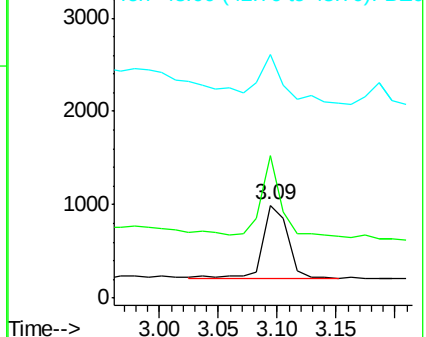
43 61.2 41.2 61.8



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





#3

n-Nitrosodimethylamine

Concen: 0.162 ng

RT: 3.38 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

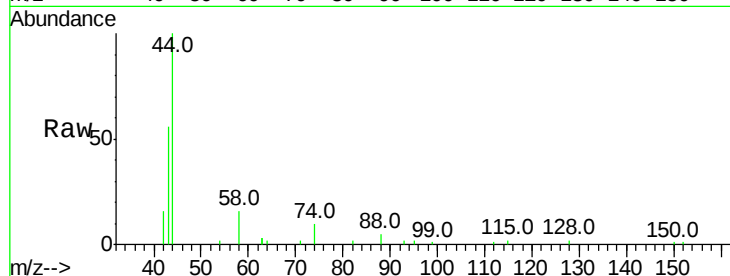
Tot Ion: 42 Resp: 455

Ion Ratio Lower Upper

42 100

74 109.5 96.0 144.0

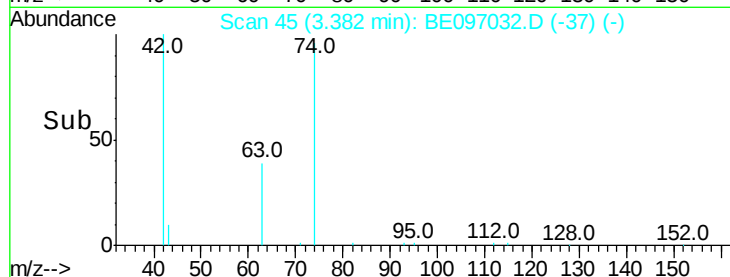
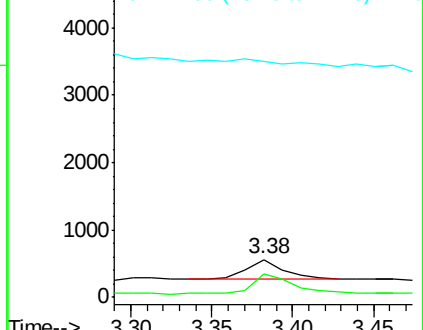
44 0.0 12.0 18.0#



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: 0.160 ng

RT: 5.05 min Scan# 190

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

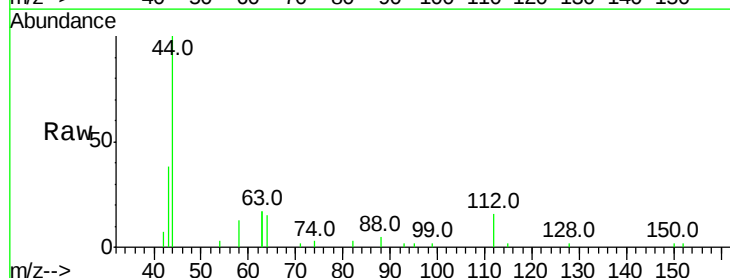
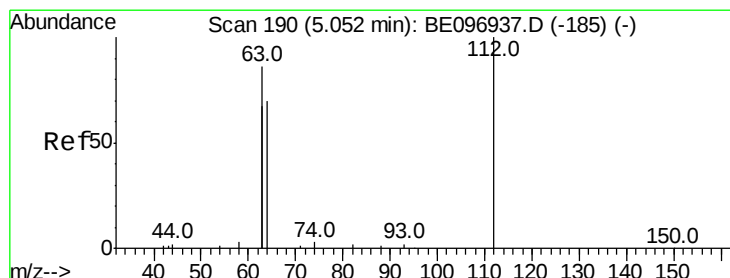
Tgt Ion: 112 Resp: 668

Ion Ratio Lower Upper

112 100

64 72.9 60.1 90.1

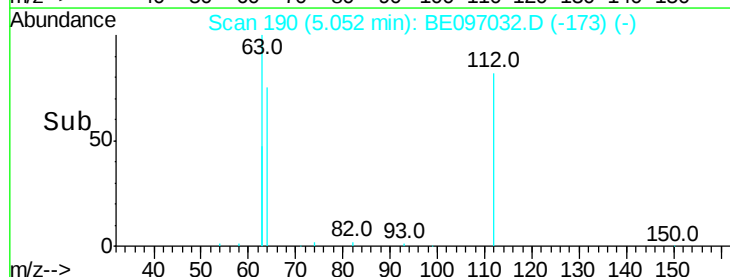
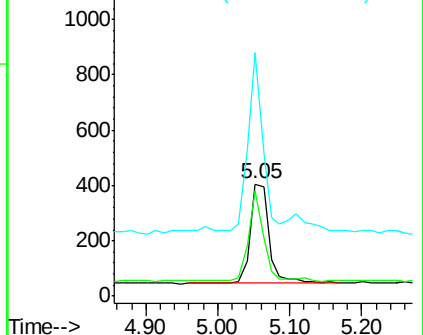
63 141.8 116.8 175.2

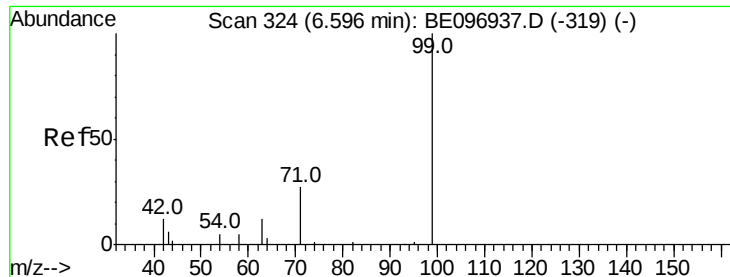


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.085 ng

RT: 6.60 min Scan# 324

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

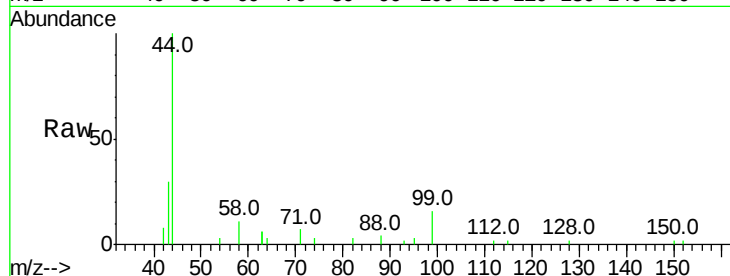
Tot Ion: 99 Resp: 545

Ion Ratio Lower Upper

99 100

42 33.4 20.2 30.2#

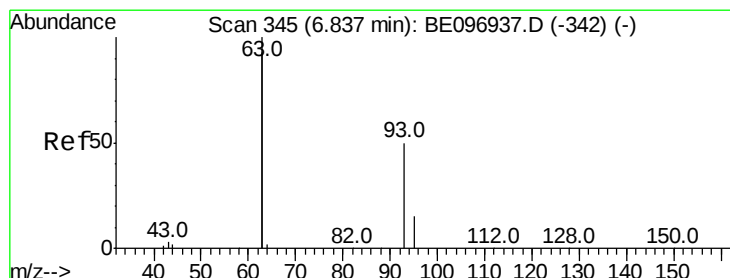
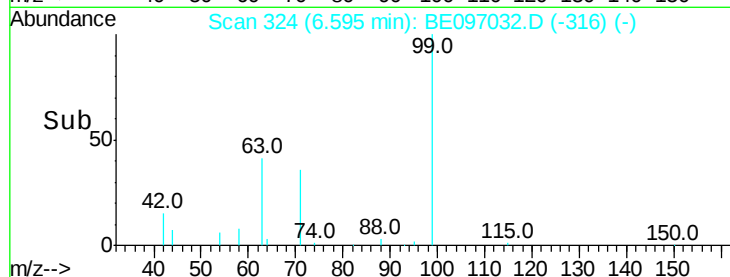
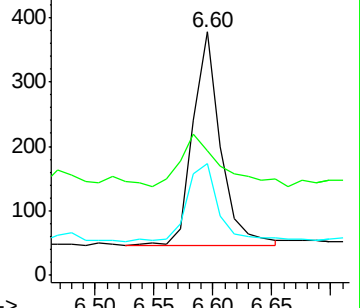
71 41.1 28.4 42.6



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: 0.362 ng

RT: 6.84 min Scan# 345

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

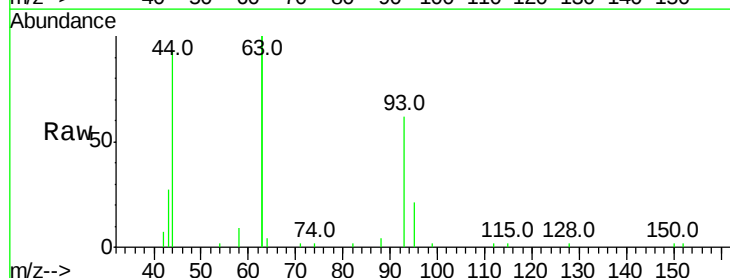
Tgt Ion: 93 Resp: 2267

Ion Ratio Lower Upper

93 100

63 338.7 275.3 412.9

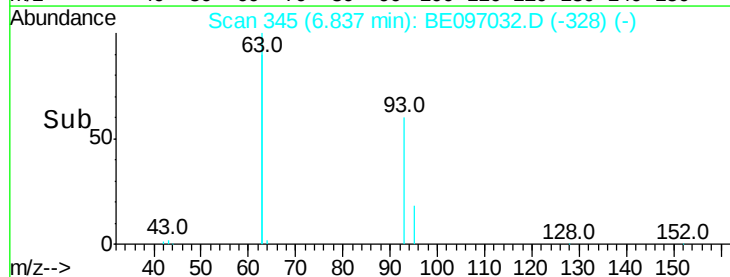
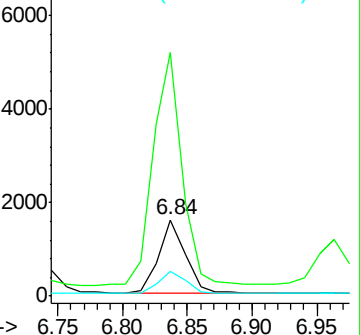
95 32.8 25.2 37.8

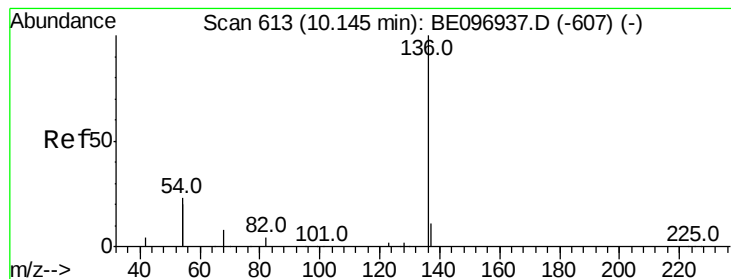


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.15 min Scan# 613

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

Tot Ion:136 Resp: 7775

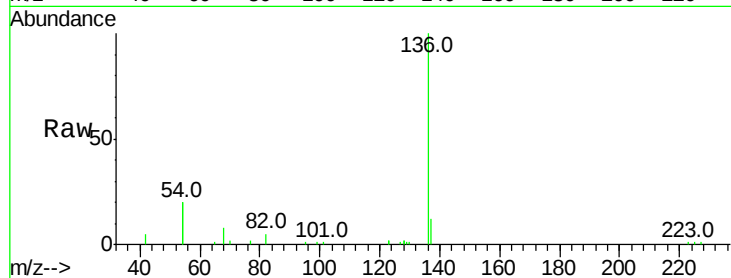
Ion Ratio Lower Upper

136 100

137 11.8 9.5 14.3

54 39.9 29.1 43.7

68 7.6 6.2 9.2

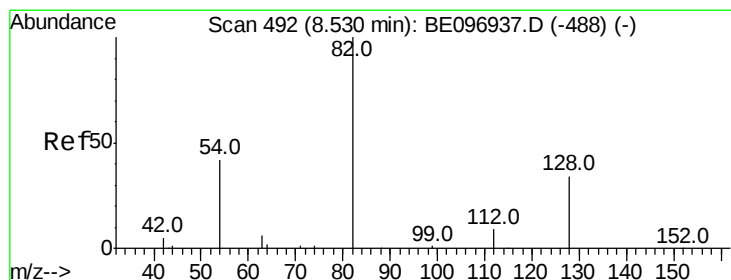
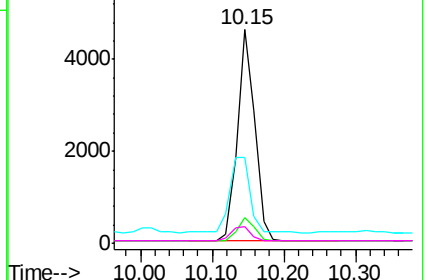
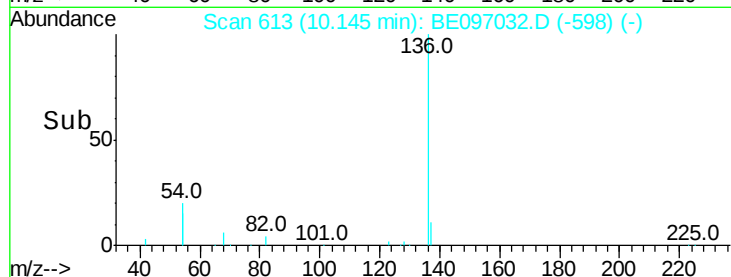


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.433 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

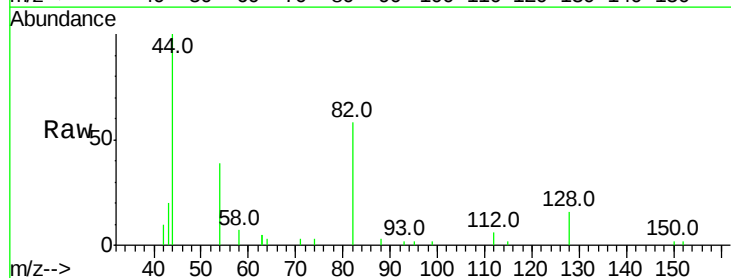
Tgt Ion: 82 Resp: 2455

Ion Ratio Lower Upper

82 100

128 26.9 24.0 36.0

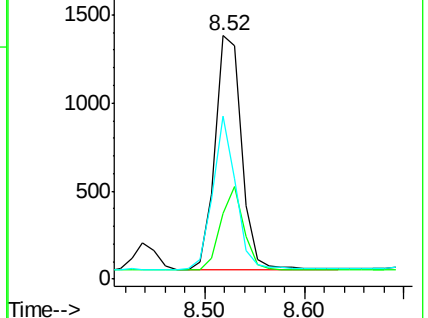
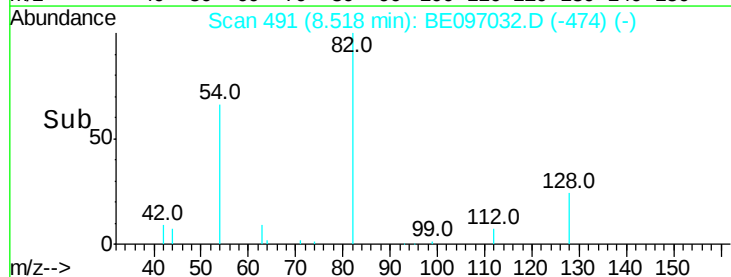
54 67.1 40.0 60.0#



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: 0.413 ng

RT: 10.20 min Scan# 617

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

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ClientSampleId :

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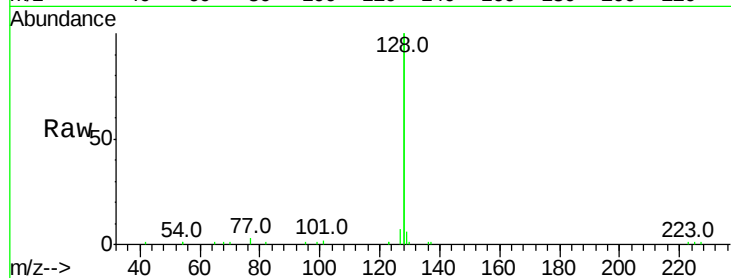
Tot Ion:128 Resp: 28754

Ion Ratio Lower Upper

128 100

129 3.0 2.6 3.8

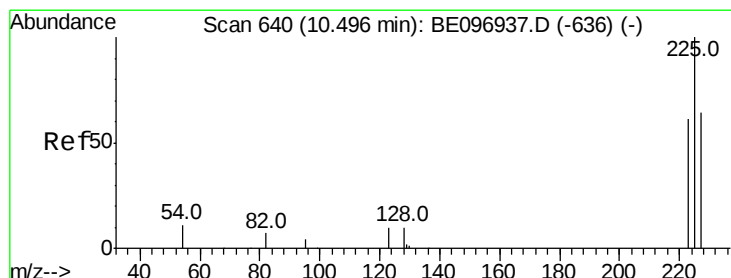
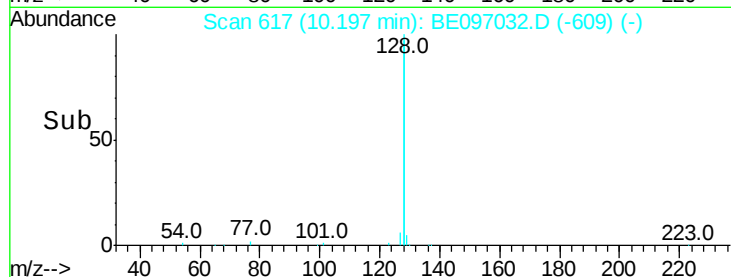
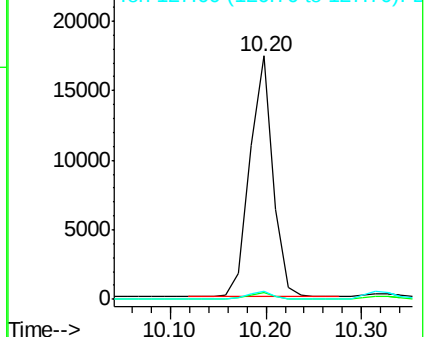
127 3.3 2.8 4.2



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: 0.417 ng

RT: 10.50 min Scan# 640

Delta R.T. 0.01 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

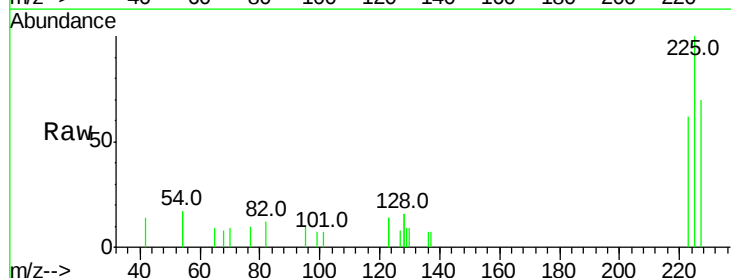
Tgt Ion:225 Resp: 1172

Ion Ratio Lower Upper

225 100

223 62.5 53.0 79.6

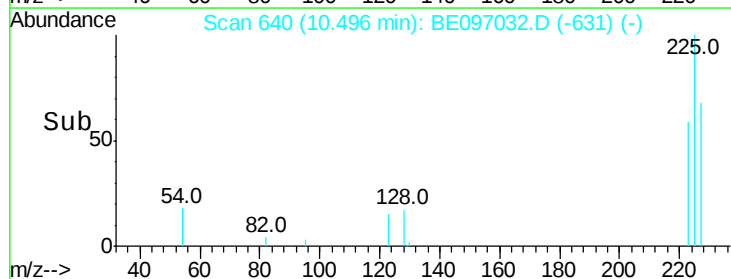
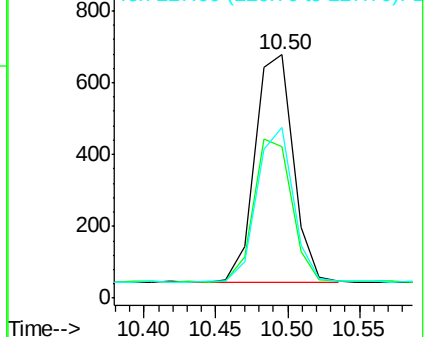
227 64.9 51.4 77.2



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: 0.419 ng

RT: 11.73 min Scan# 761

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

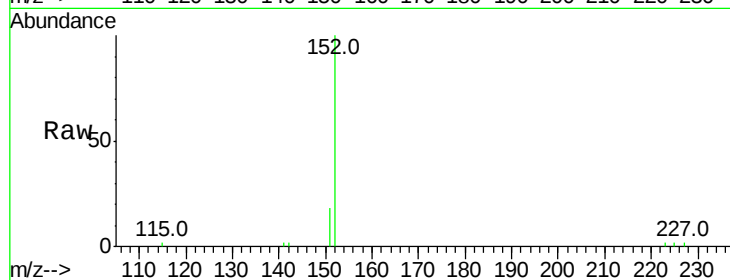
RE104D3-071318MSD

Tot Ion:152 Resp: 4752

Ion Ratio Lower Upper

152 100

151 17.3 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.73

2500

2000

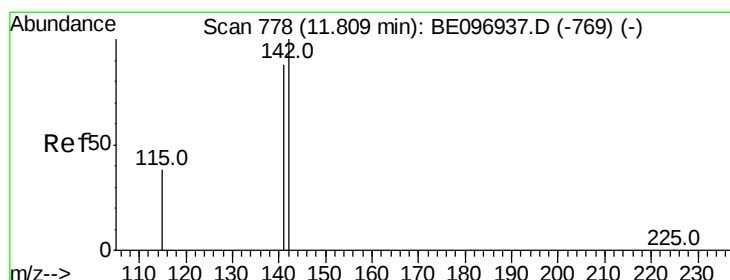
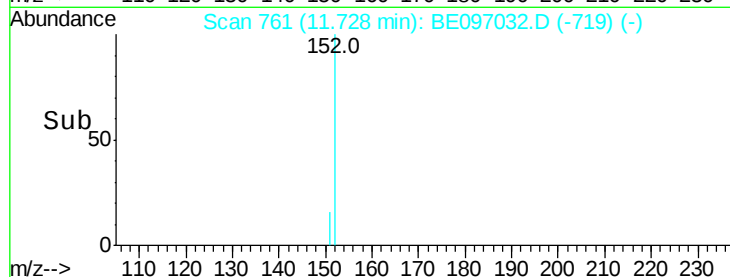
1500

1000

500

0

Time--> 11.60 11.70 11.80



#12

2-Methylnaphthalene

Concen: 0.394 ng

RT: 11.80 min Scan# 777

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

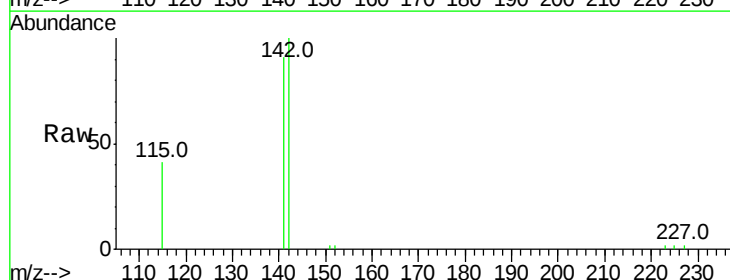
Tgt Ion:142 Resp: 4649

Ion Ratio Lower Upper

142 100

141 91.1 70.4 105.6

115 40.9 31.7 47.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

4000

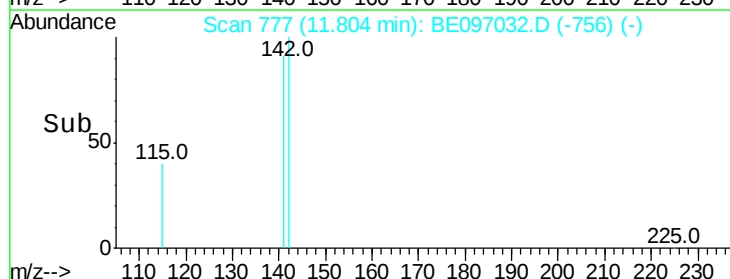
3000

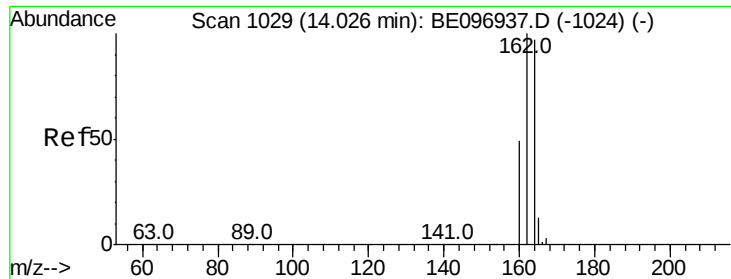
2000

1000

0

Time--> 11.70 11.80 11.90





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.01 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

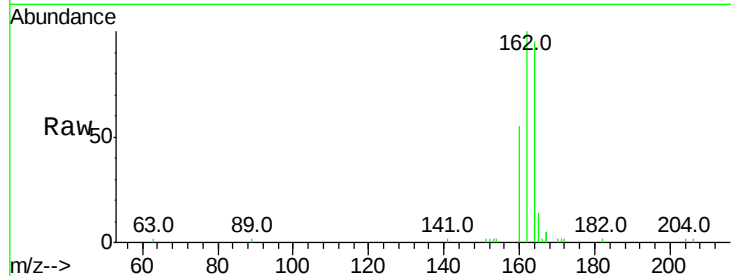
Tot Ion:164 Resp: 4221

Ion Ratio Lower Upper

164 100

162 105.1 83.1 124.7

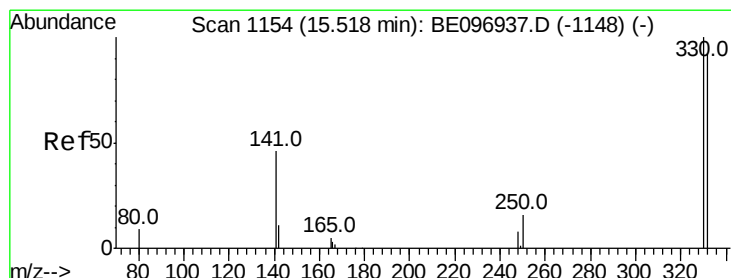
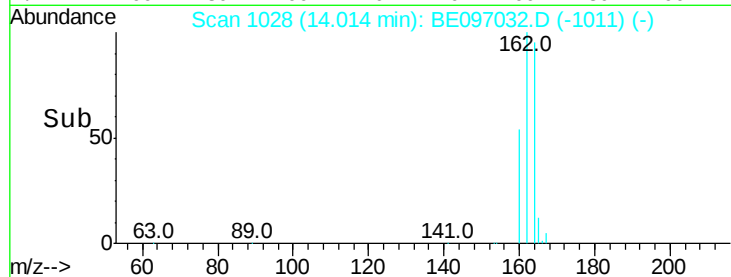
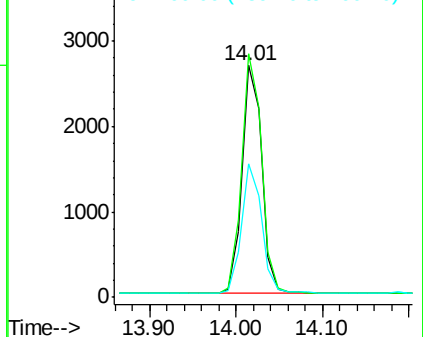
160 57.7 37.1 55.7#



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: 0.430 ng

RT: 15.52 min Scan# 1154

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

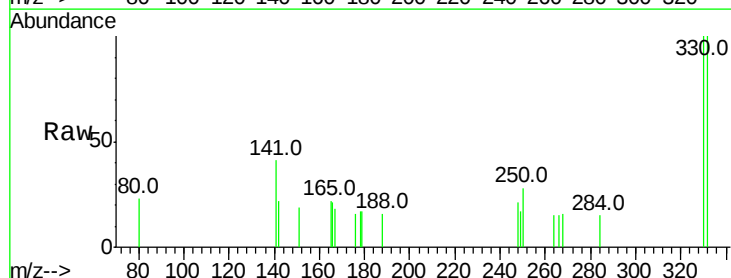
Tgt Ion:330 Resp: 400

Ion Ratio Lower Upper

330 100

332 97.5 152.7 229.1#

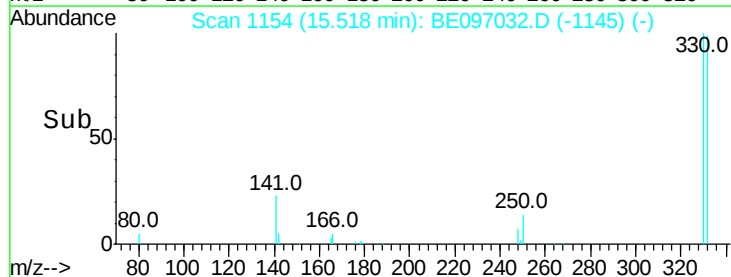
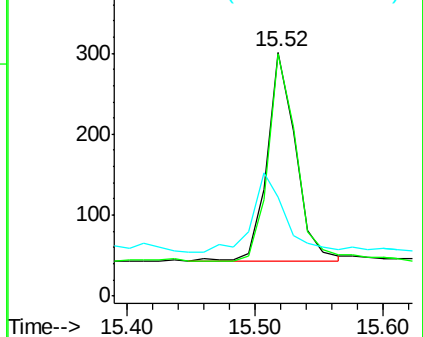
141 44.3 33.7 50.5

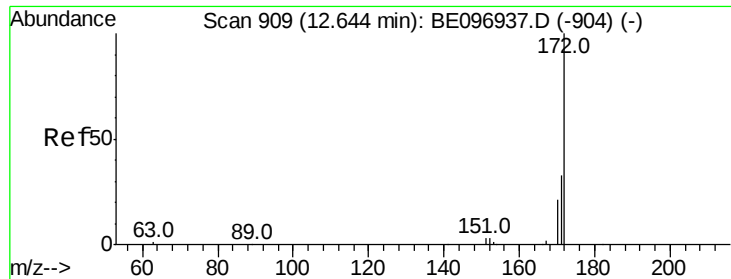


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

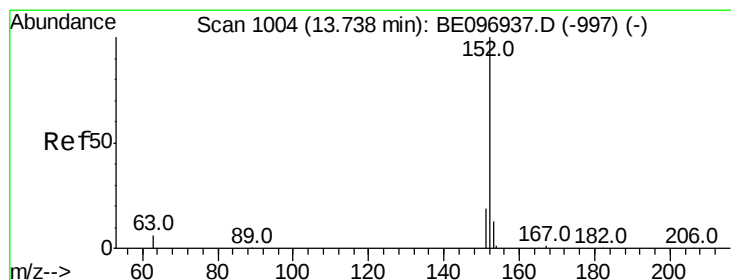
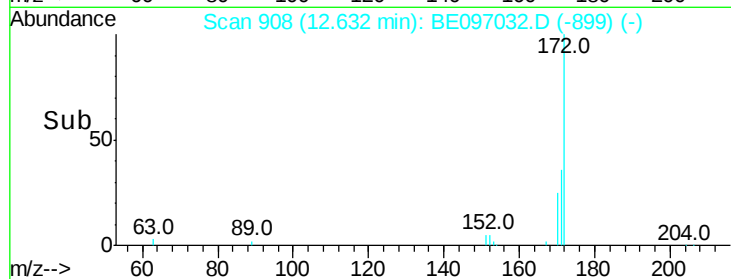
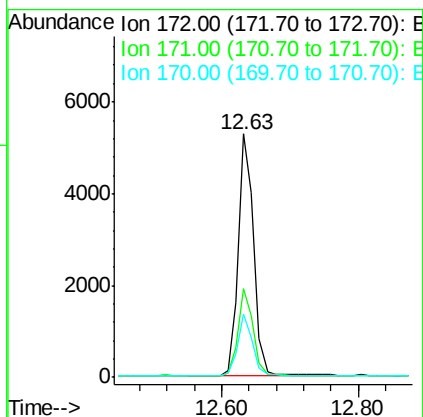
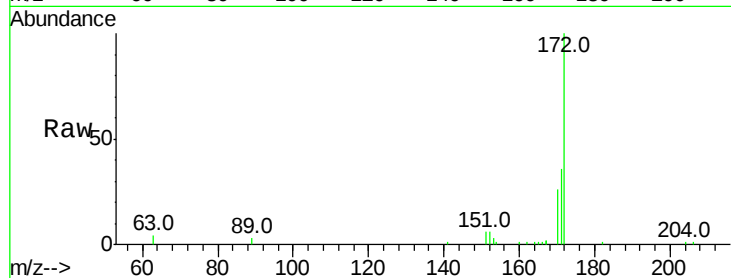




#15
2-Fluorobiphenyl
Concen: 0.524 ng
RT: 12.63 min Scan# 908
Delta R.T. -0.00 min
Lab File: BE097032.D
Acq: 23 Jul 2018 11:34

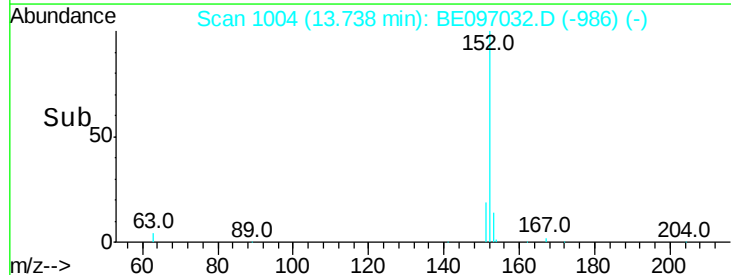
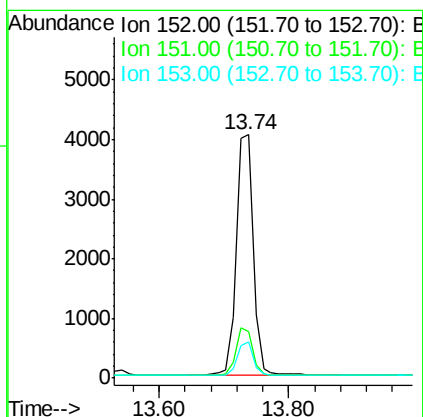
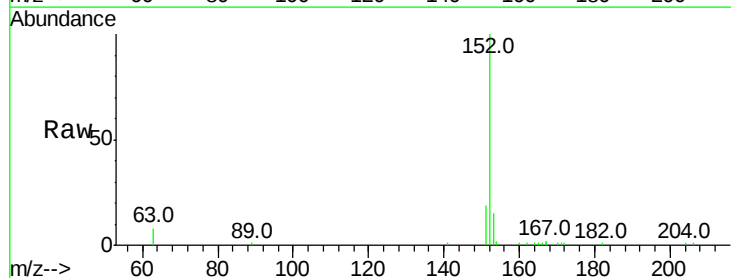
Instrument :
BNA_E
ClientSampleId :
RE104D3-071318MSD

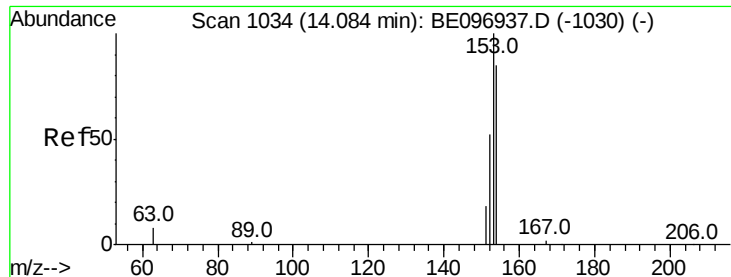
Tot Ion:172 Resp: 8228
Ion Ratio Lower Upper
172 100
171 36.3 29.9 44.9
170 25.7 21.8 32.8



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.74 min Scan# 1004
Delta R.T. 0.01 min
Lab File: BE097032.D
Acq: 23 Jul 2018 11:34

Tgt Ion:152 Resp: 7173
Ion Ratio Lower Upper
152 100
151 19.3 15.7 23.5
153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.363 ng

RT: 14.08 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

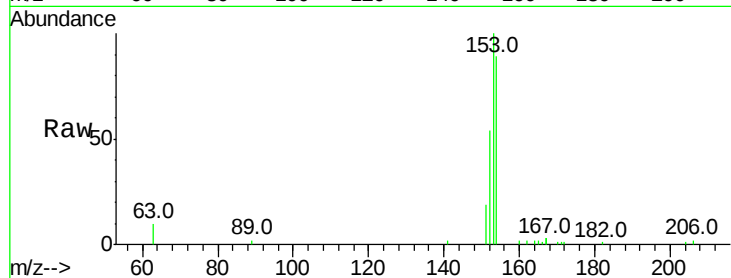
Tot Ion:154 Resp: 4353

Ion Ratio Lower Upper

154 100

153 114.6 89.2 133.8

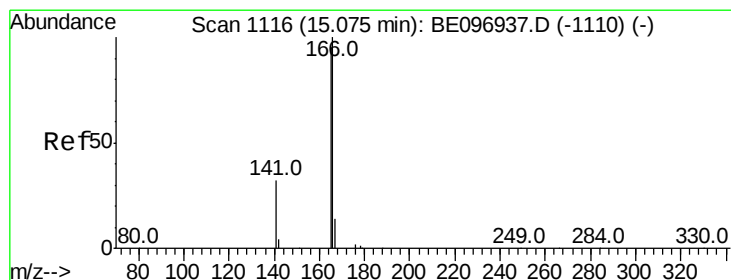
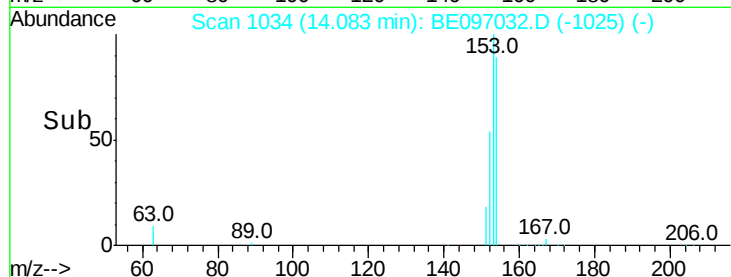
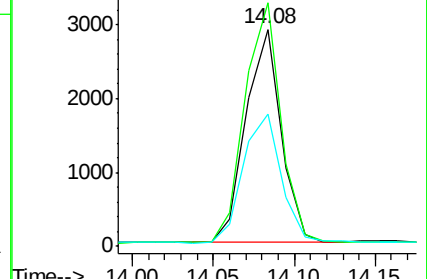
152 66.0 42.0 63.0#



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: 0.443 ng

RT: 15.08 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

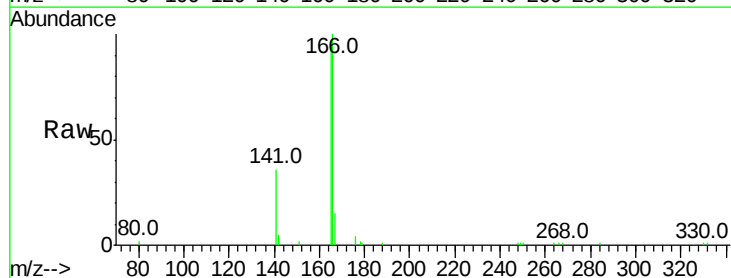
Tgt Ion:166 Resp: 5959

Ion Ratio Lower Upper

166 100

165 99.9 77.8 116.6

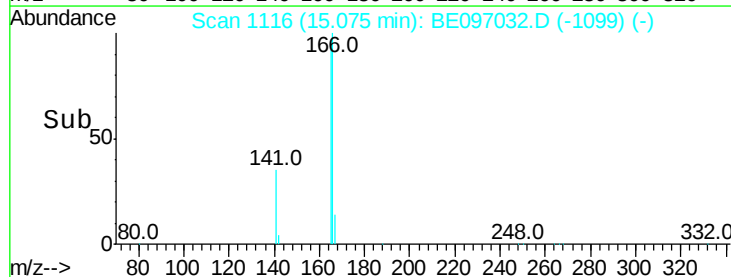
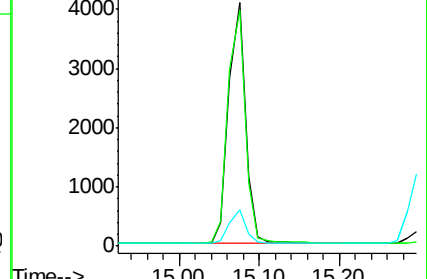
167 13.8 42.4 63.6#

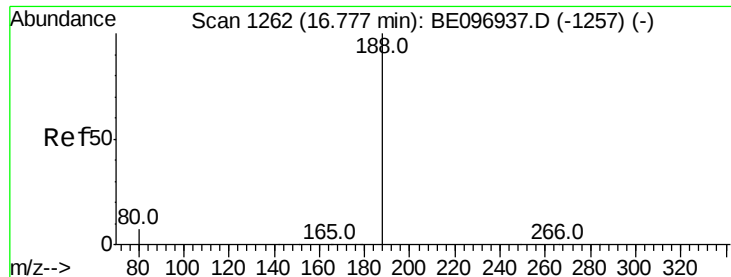


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.77 min Scan# 1261

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

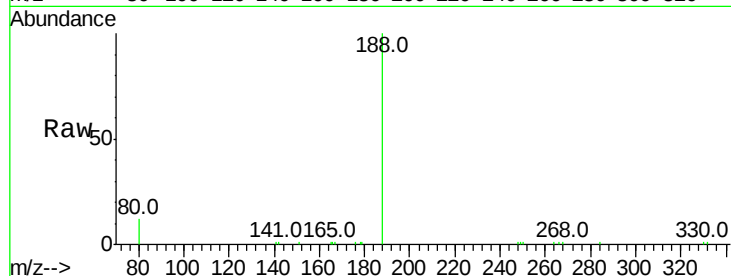
Tot Ion:188 Resp: 12844

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

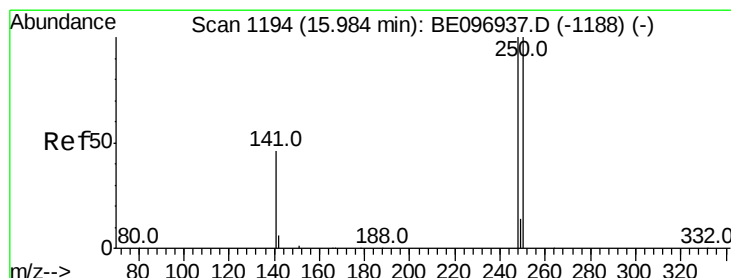
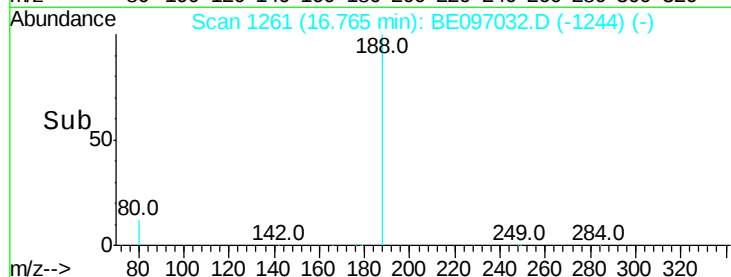
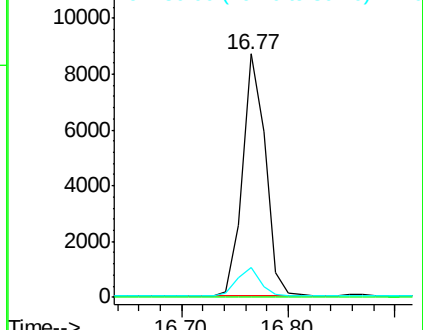
80 12.2 3.6 5.4#



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: 0.369 ng

RT: 15.97 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

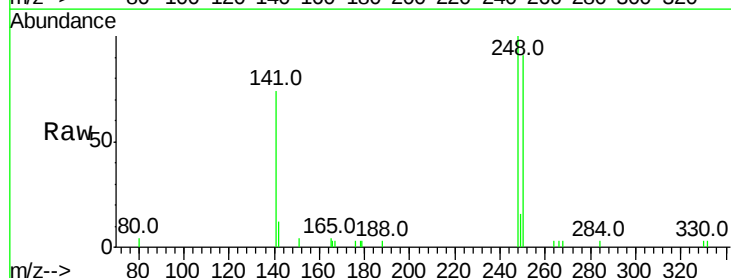
Tgt Ion:248 Resp: 2244

Ion Ratio Lower Upper

248 100

250 90.9 62.7 94.1

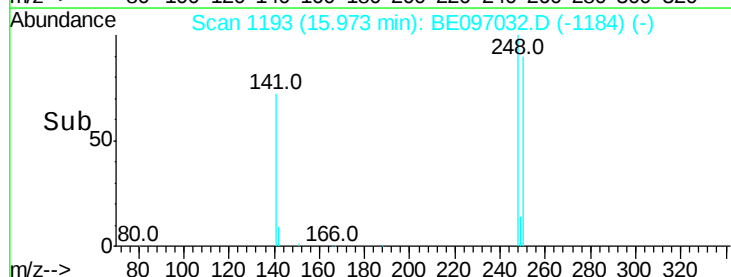
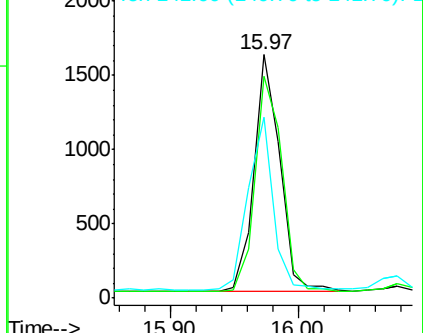
141 74.0 48.2 72.2#



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: 0.331 ng

RT: 16.08 min Scan# 1202

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

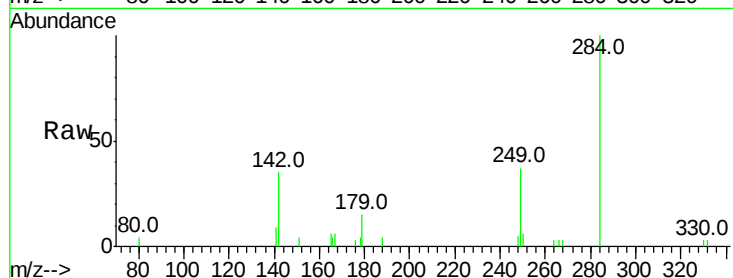
Tot Ion:284 Resp: 2232

Ion Ratio Lower Upper

284 100

142 35.1 22.1 33.1#

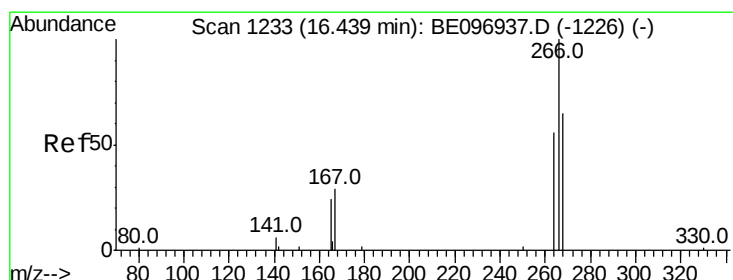
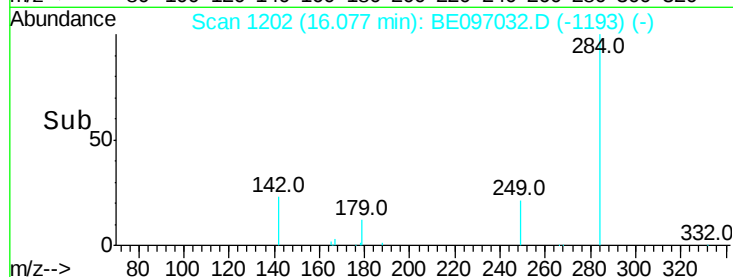
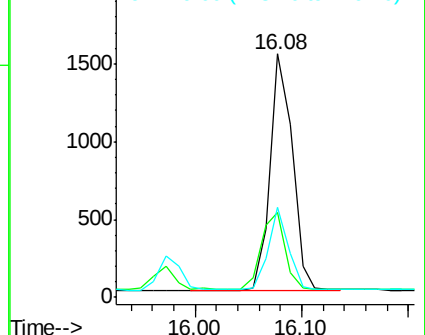
249 31.6 34.8 52.2#



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



#22

Pentachlorophenol

Concen: 0.608 ng

RT: 16.43 min Scan# 1232

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

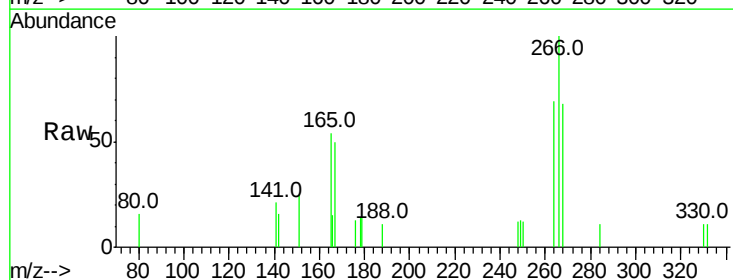
Tgt Ion:266 Resp: 642

Ion Ratio Lower Upper

266 100

264 68.6 72.5 108.7#

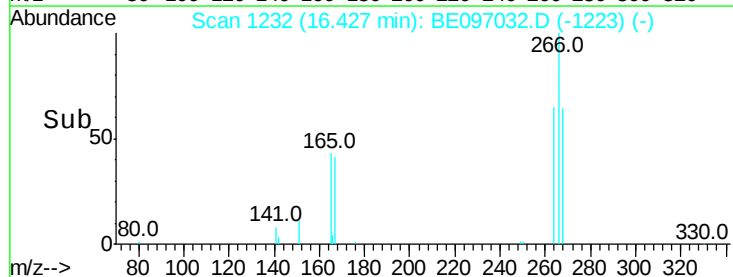
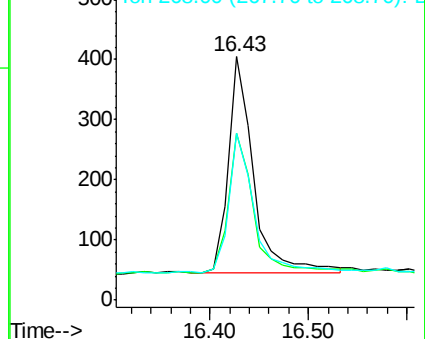
268 68.4 73.8 110.6#



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: 0.413 ng

RT: 16.81 min Scan# 1265

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

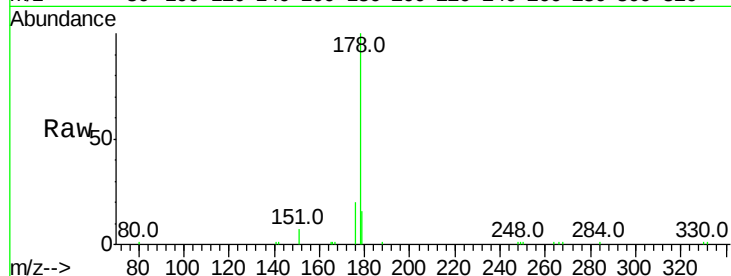
Tot Ion:178 Resp: 12716

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

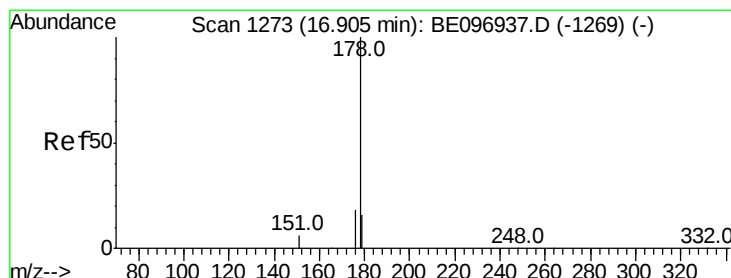
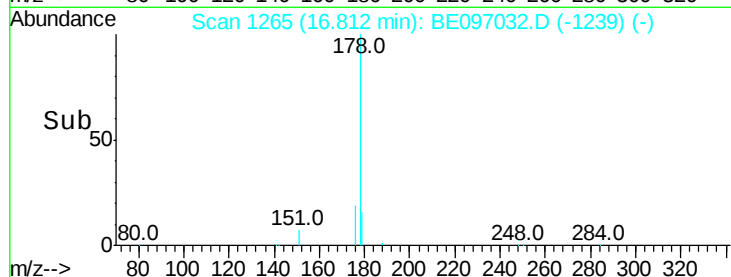
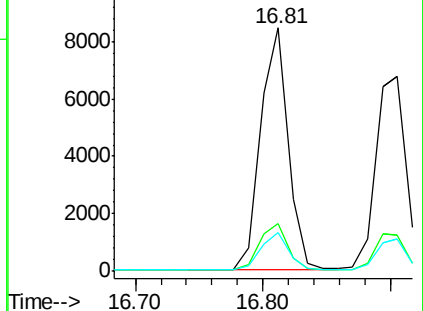
179 15.2 11.8 17.6



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: 0.418 ng

RT: 16.90 min Scan# 1273

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

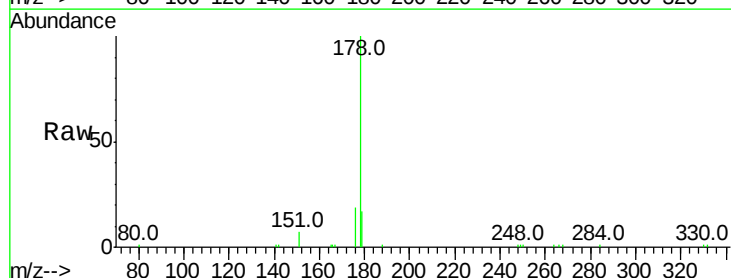
Tgt Ion:178 Resp: 11177

Ion Ratio Lower Upper

178 100

176 18.9 12.8 19.2

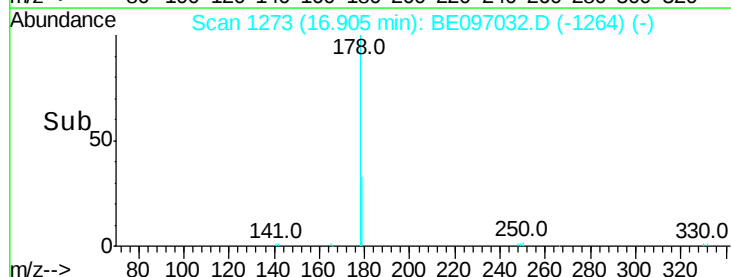
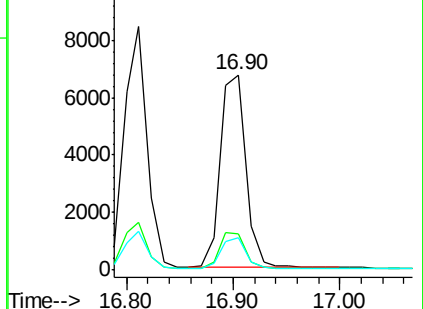
179 15.1 13.0 19.6

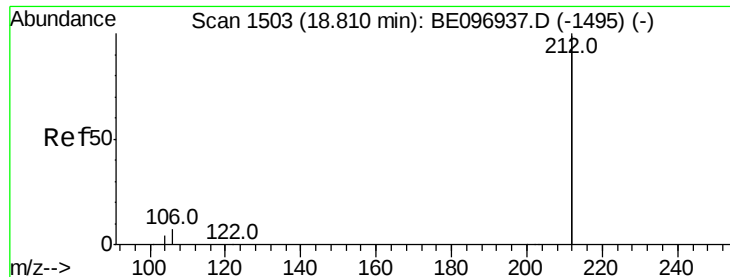


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.540 ng

RT: 18.81 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

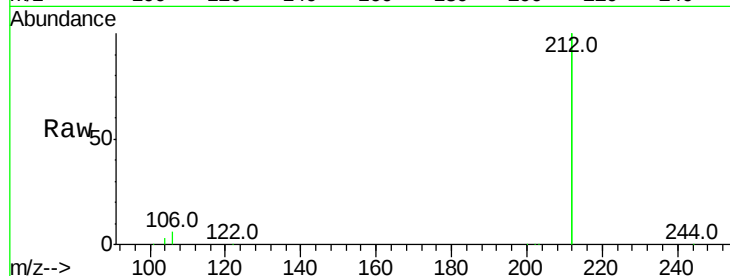
Tot Ion:212 Resp: 60328

Ion Ratio Lower Upper

212 100

106 3.1 2.8 4.2

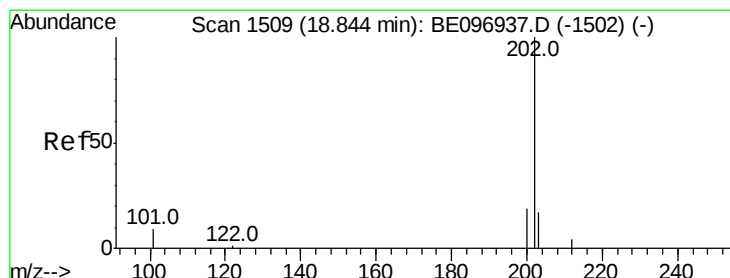
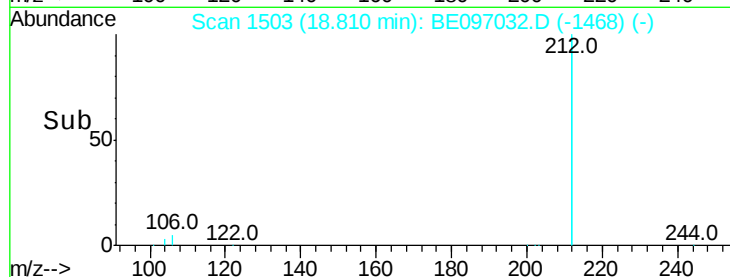
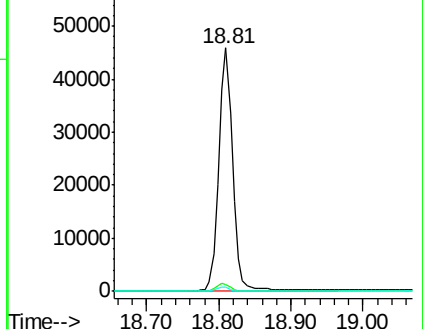
104 1.7 1.6 2.4



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: 0.488 ng

RT: 18.84 min Scan# 1508

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

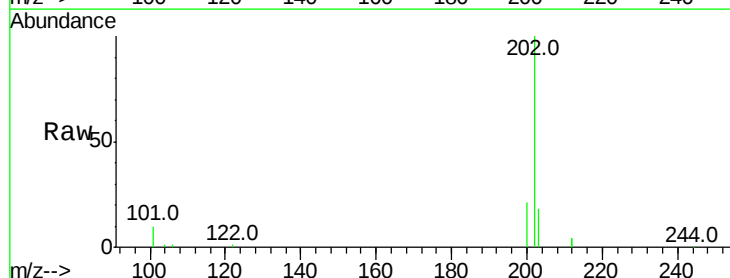
Tgt Ion:202 Resp: 15847

Ion Ratio Lower Upper

202 100

101 10.8 9.8 14.8

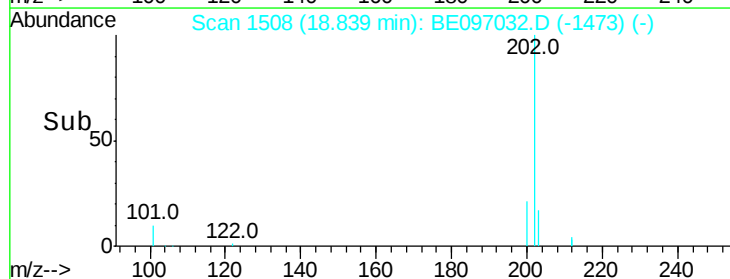
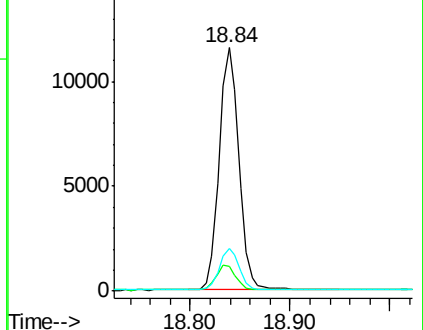
203 17.2 13.7 20.5



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: 20.98 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

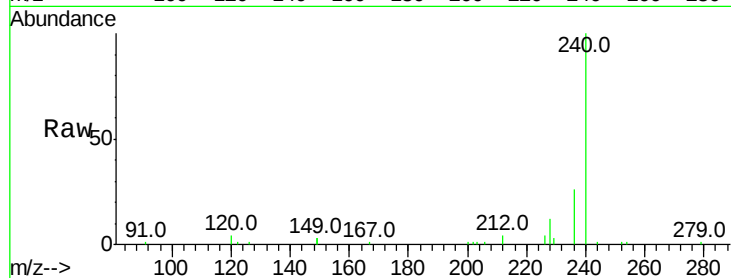
Tot Ion:240 Resp: 14061

Ion Ratio Lower Upper

240 100

120 3.8 5.5 8.3#

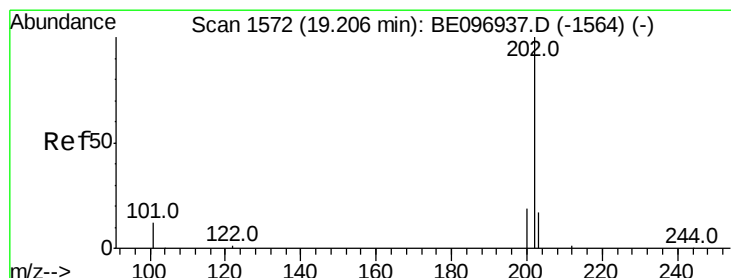
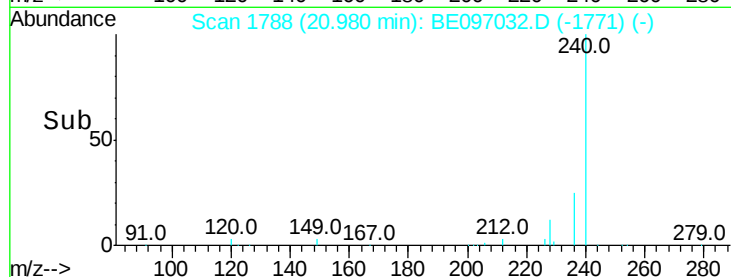
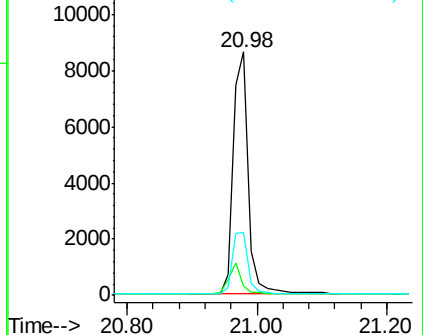
236 25.7 20.7 31.1



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: 0.386 ng

RT: 19.20 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

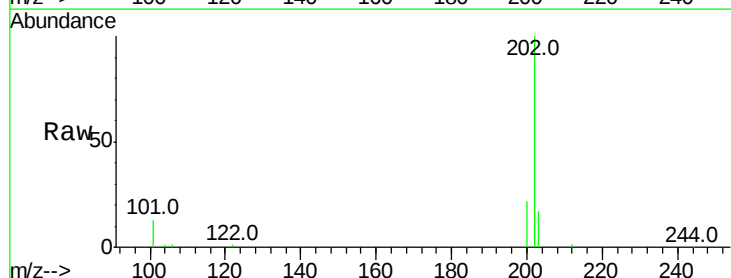
Tgt Ion:202 Resp: 16039

Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

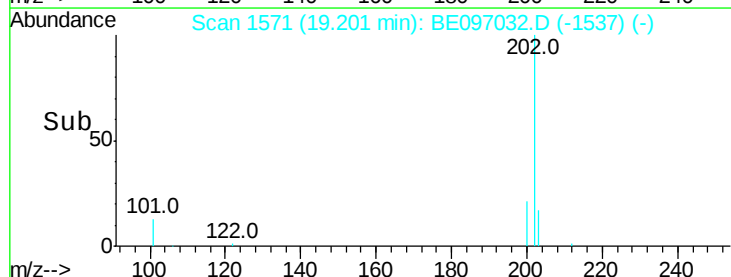
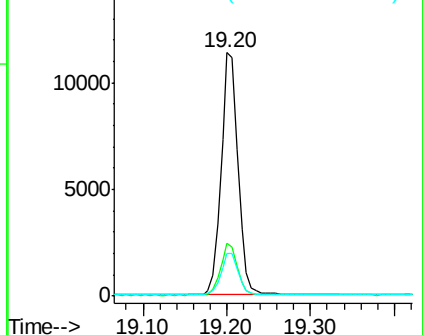
203 17.6 13.8 20.8

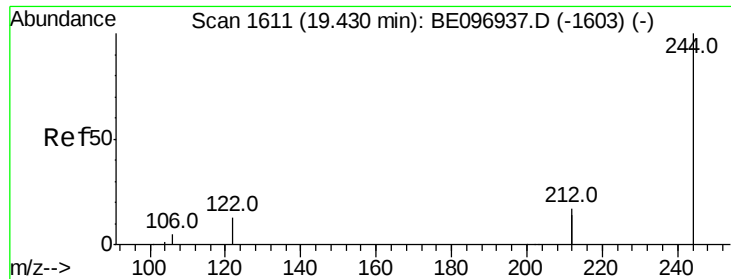


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.474 ng

RT: 19.43 min Scan# 1611

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

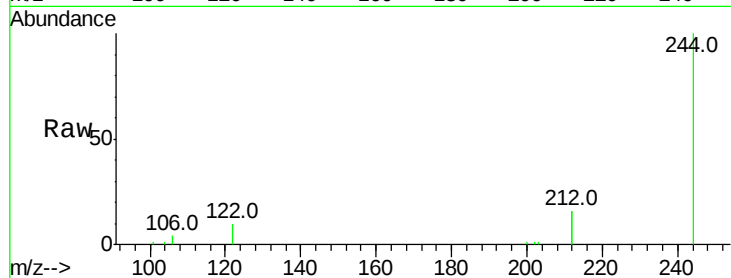
Tot Ion:244 Resp: 12868

Ion Ratio Lower Upper

244 100

212 32.4 25.4 38.0

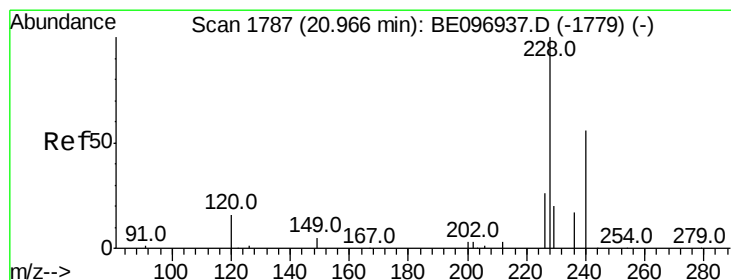
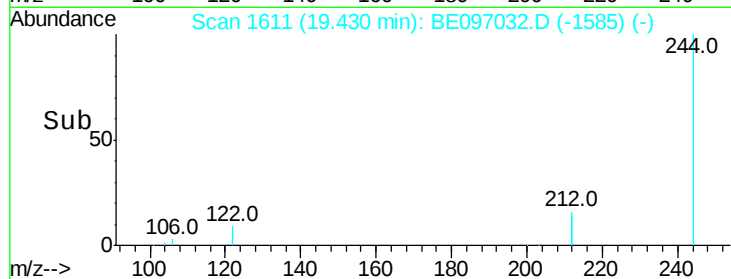
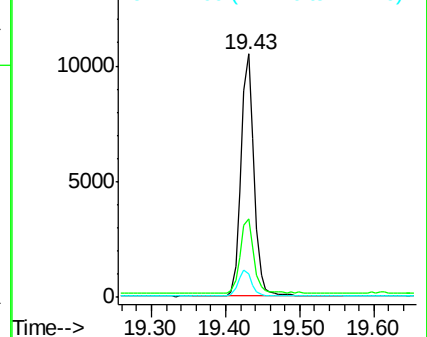
122 9.8 8.1 12.1



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: 0.428 ng

RT: 20.96 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

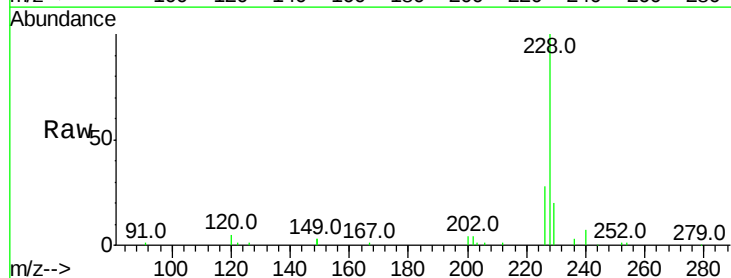
Tgt Ion:228 Resp: 14332

Ion Ratio Lower Upper

228 100

226 27.6 24.0 36.0

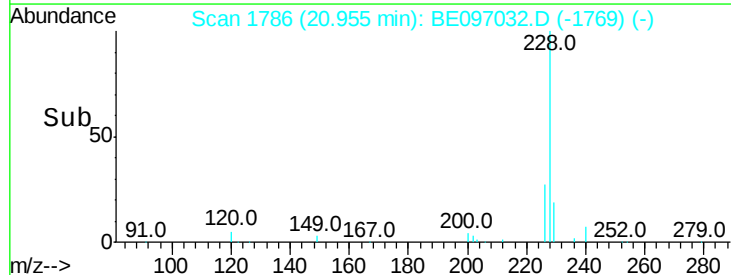
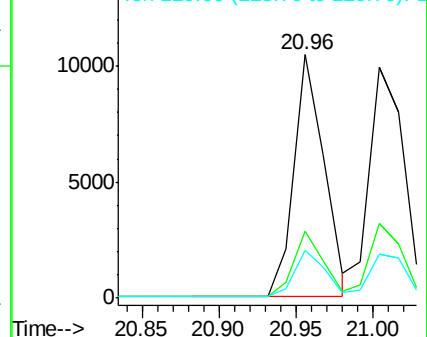
229 19.6 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.409 ng

RT: 21.00 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

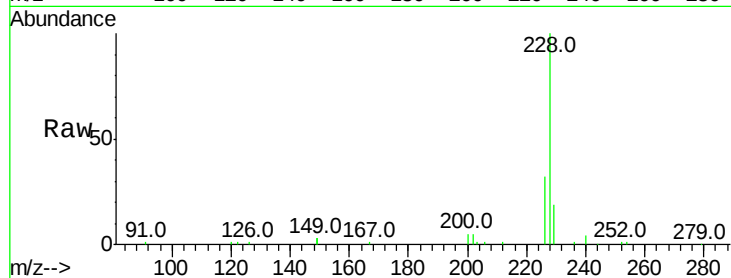
BNA_E

ClientSampleId :

RE104D3-071318MSD

Tot Ion:228 Resp: 15349

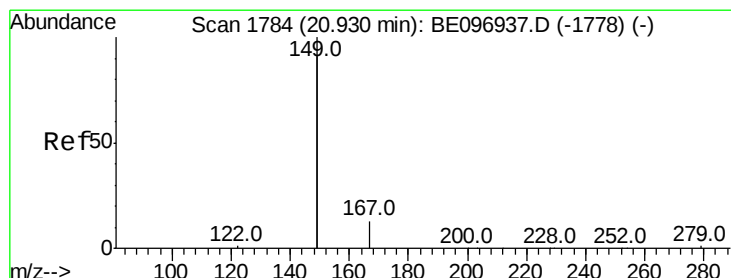
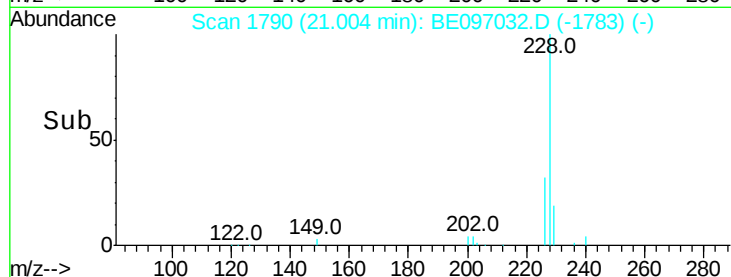
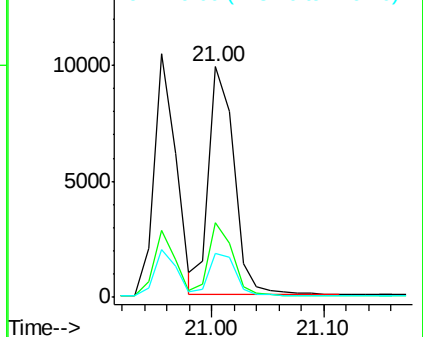
Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.2	16.0	24.0



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.418 ng

RT: 20.92 min Scan# 1783

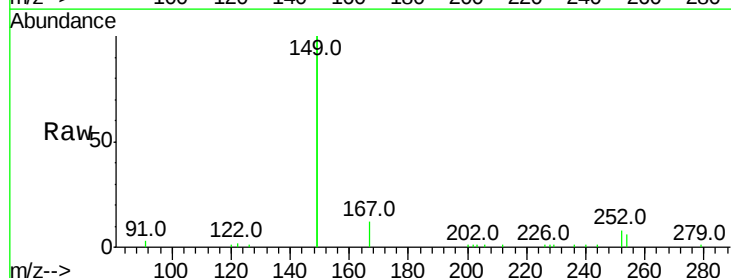
Delta R.T. -0.01 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Tgt Ion:149 Resp: 13974

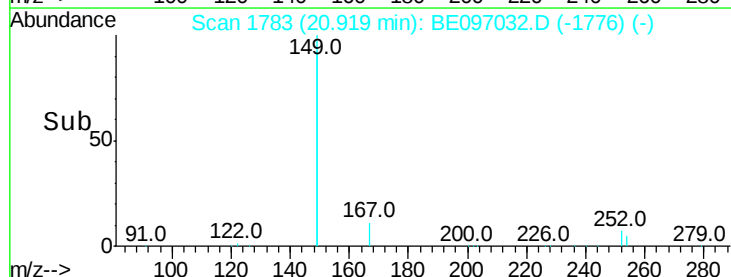
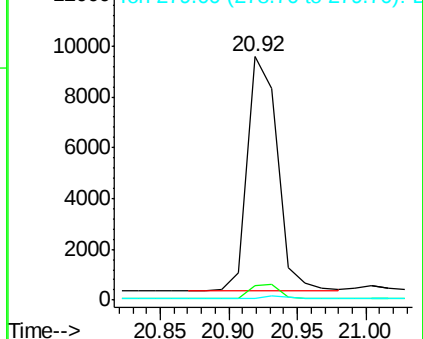
Ion	Ratio	Lower	Upper
149	100		
167	6.3	5.4	8.0
279	0.9	0.7	1.1



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

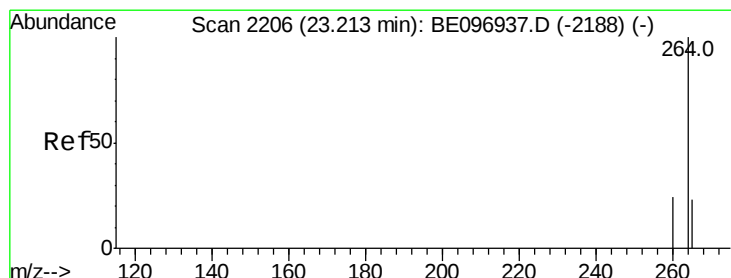
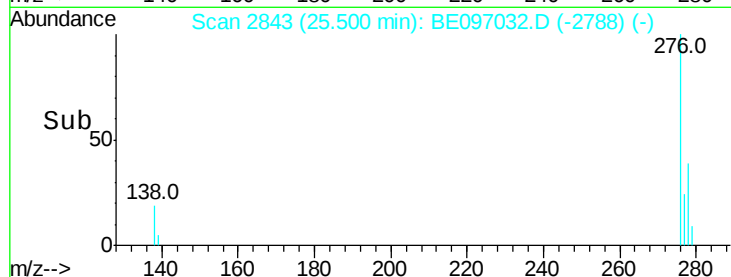
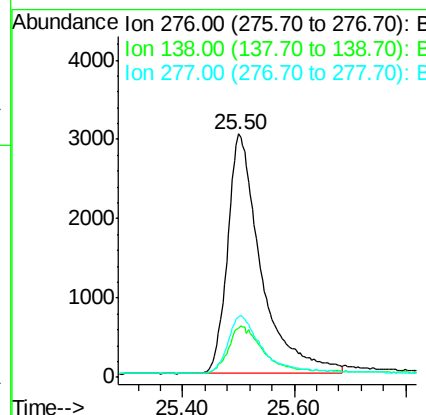
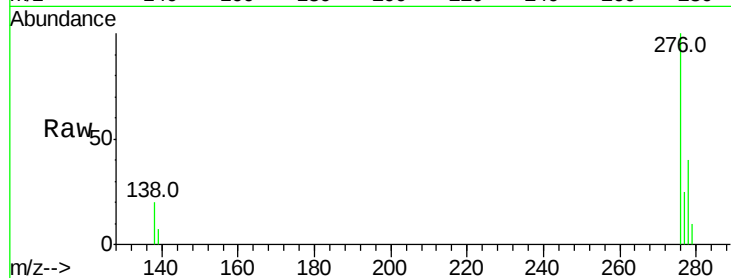




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.462 ng
 RT: 25.50 min Scan# 2843
 Delta R.T. -0.00 min
 Lab File: BE097032.D
 Acq: 23 Jul 2018 11:34

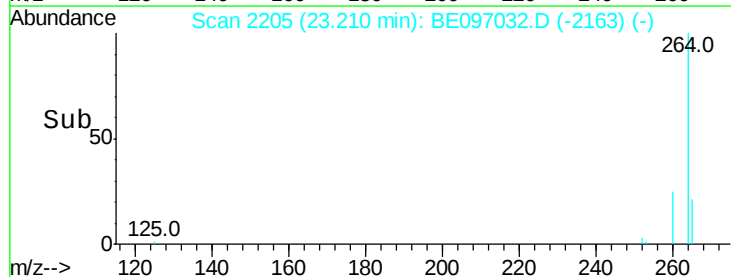
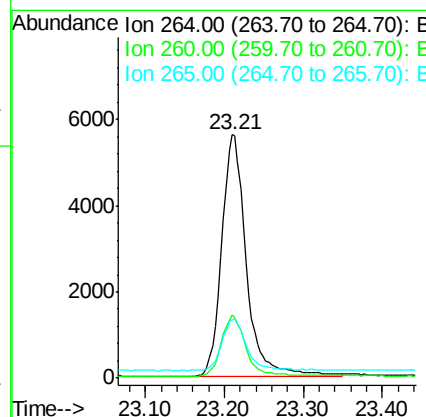
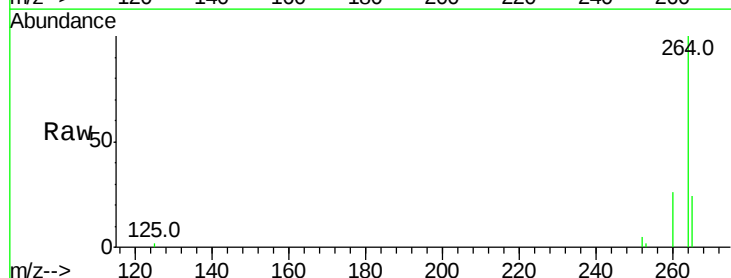
Instrument :
 BNA_E
 ClientSampleId :
 RE104D3-071318MSD

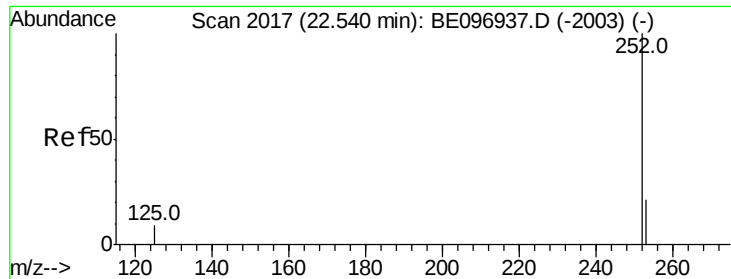
Tot Ion:276 Resp: 12653
 Ion Ratio Lower Upper
 276 100
 138 20.6 22.5 33.7#
 277 25.0 19.9 29.9



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.21 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: BE097032.D
 Acq: 23 Jul 2018 11:34

Tgt Ion:264 Resp: 12094
 Ion Ratio Lower Upper
 264 100
 260 25.9 20.5 30.7
 265 24.0 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 22.54 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

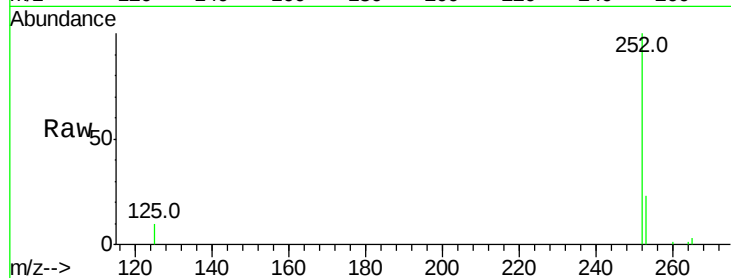
Tot Ion:252 Resp: 12174

Ion Ratio Lower Upper

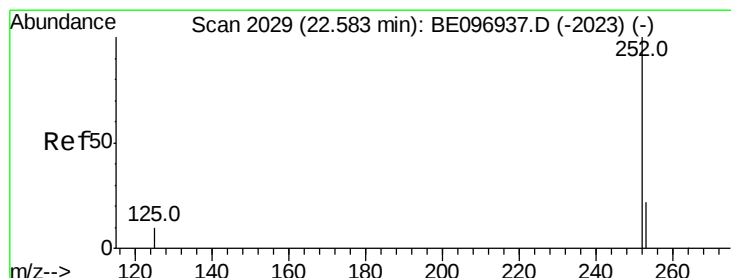
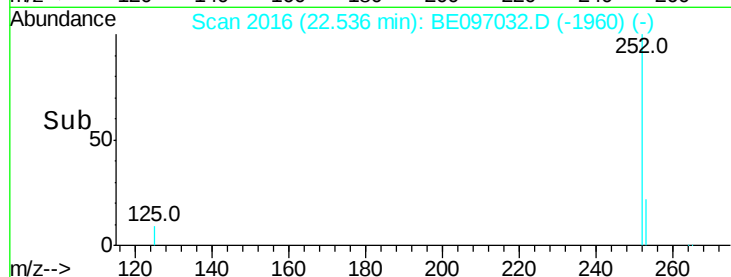
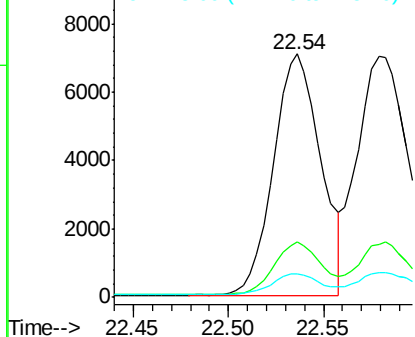
252 100

253 22.6 20.0 30.0

125 9.8 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: 22.58 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

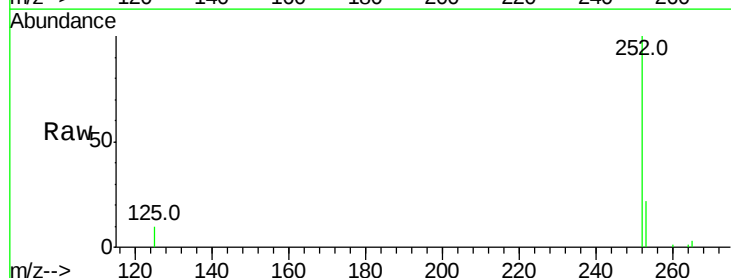
Tgt Ion:252 Resp: 14680

Ion Ratio Lower Upper

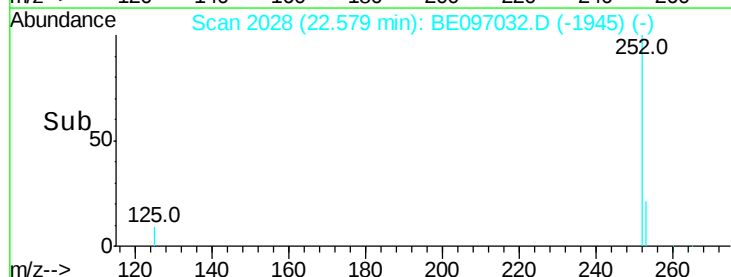
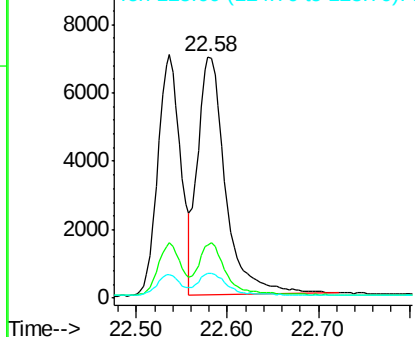
252 100

253 22.0 16.0 24.0

125 10.3 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: 23.11 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

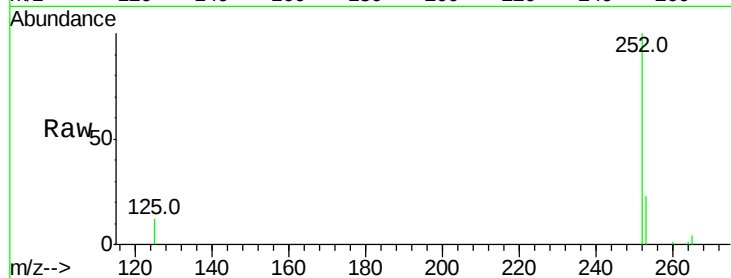
Tot Ion:252 Resp: 11141

Ion Ratio Lower Upper

252 100

253 23.0 16.0 24.0

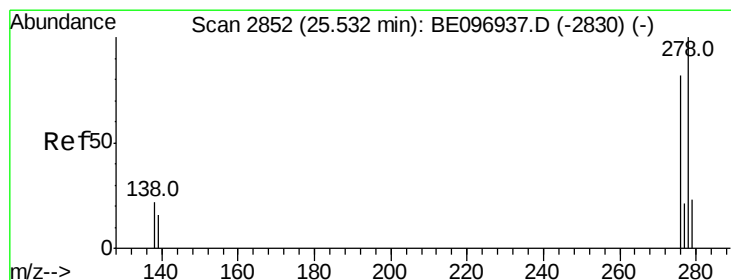
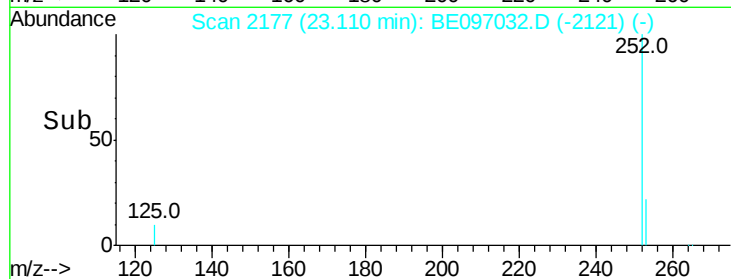
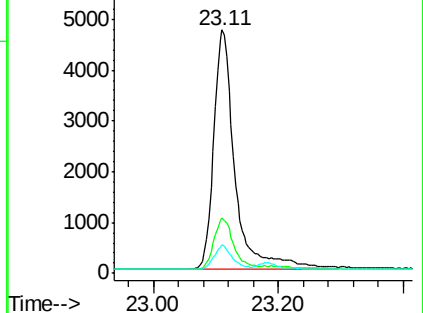
125 11.7 12.0 18.0#



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: 0.464 ng

RT: 25.52 min Scan# 2850

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

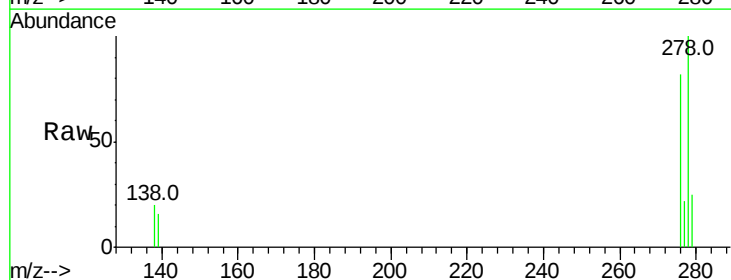
Tgt Ion:278 Resp: 10452

Ion Ratio Lower Upper

278 100

139 16.3 16.0 24.0

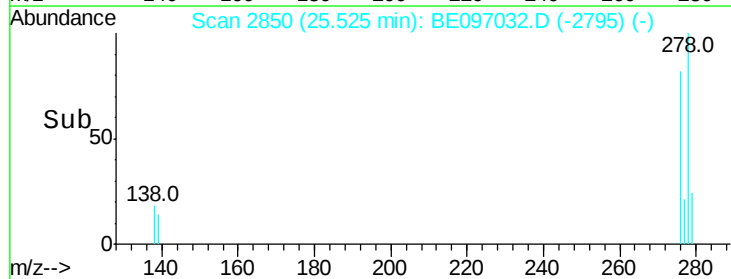
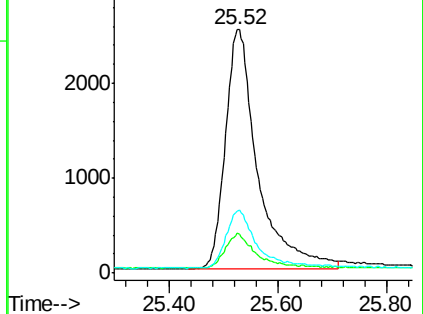
279 25.3 20.0 30.0



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: 0.417 ng

RT: 26.20 min Scan# 3039

Delta R.T. -0.00 min

Lab File: BE097032.D

Acq: 23 Jul 2018 11:34

Instrument :

BNA_E

ClientSampleId :

RE104D3-071318MSD

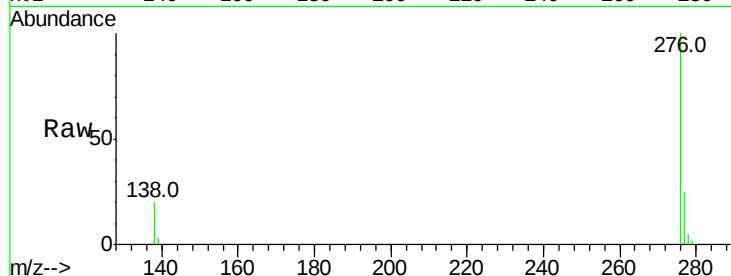
Tot Ion:276 Resp: 10462

Ion Ratio Lower Upper

276 100

277 25.1 16.0 24.0#

138 20.1 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

