



11. Conservative and stable test with walkie talkie discription

11.1 SAR vs. time table

Time (min)	Drift measurement (dB)	SAR Total (W/kg)	Drift measurement (dB)	SAR Total (W/kg)
	Ni-MH		Alkaline	
0		2.979		3.382
1	-0.082	2.923	-0.134	3.279
2	-0.195	2.848	-0.313	3.147
3	-0.268	2.801	-0.418	3.072
4	-0.319	2.768	-0.561	2.972
5	-0.36	2.742	-0.619	2.933
6	-0.395	2.72	-0.611	2.938
7	-0.377	2.731	-0.668	2.9
8	-0.459	2.68	-0.671	2.898
9	-0.417	2.706	-0.686	2.888
10	-0.508	2.65	-0.725	2.862
11	-0.482	2.666	-0.749	2.846
12	-0.515	2.646	-0.803	2.811
13	-0.603	2.593	-0.834	2.791
14	-0.558	2.62	-0.865	2.771
15	-0.579	2.607	-0.903	2.747
16	-0.603	2.593	-0.936	2.726
17	-0.638	2.572	-0.98	2.699
18	-0.718	2.525	-1.02	2.672
19	-0.754	2.504	-1.06	2.65
20	-0.723	2.522	-1.08	2.635
21	-0.76	2.501	-1.12	2.612
22	-0.86	2.444	-1.17	2.583
23	-0.833	2.459	-1.23	2.546
24	-0.865	2.441	-1.27	2.527
25	-0.919	2.411	-1.29	2.511
26	-0.982	2.376	-1.33	2.492
27	-1.08	2.323	-1.35	2.476
28	-1.22	2.248	-1.38	2.46
29	-1.36	2.176	-1.41	2.446
30	-1.56	2.082	-1.46	2.418

Note: Since this power drift will more than 5%.

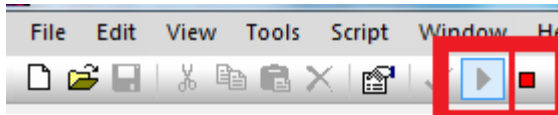
Then we try to measure conservative SAR therefore we find one method about EUT transmission stable ,please see conclution and about conservative test.

Stable table

Time (min)	Drift measurement (dB)	SAR Total (W/kg)	Drift measurement (dB)	SAR Total (W/kg)
	Ni-MH		Alkaline	
0	transmiting			
1				
2				
3				
4				
5 Reference	-	2.72	-	2.927
6	-0.026	2.704	-0.006	2.923
7	0.011	2.727	-0.019	2.914
8	-0.141	2.633	-0.058	2.888
9	-0.056	2.685	-0.073	2.878
10	-0.188	2.605	-0.078	2.875
11	stop transmiting			
12				
13				
14				
15				
16	0.018	2.731	-0.016	2.916
17	-0.063	2.681	0.016	2.938
18	-0.186	2.606	-0.037	2.902
19	-0.174	2.613	-0.054	2.891
20	-0.105	2.655	-0.052	2.892
21	stop transmiting			
22				
23				
24				
25				
26	-0.037	2.697	-0.012	2.919
27	-0.038	2.696	-0.027	2.909
28	-0.121	2.645	0.004	2.93
29	-0.191	2.603	-0.082	2.872
30	-0.14	2.634	-0.049	2.894

11.2 Conclusion with power drift

1. Every walkie talkie stable condition not the same, SAR test should be verify and check how many minutes the EUT can stable transmission from SAR vs. time table. (In this case is 5 minutes [red font])
2. Since walkie talkie sar value need come back to inictial sar value and make sure power drift close 0dB. Therefore let walkie talkie take a break is required. please see stable table.
3. SAR test implement as below:
 - 3.1. We are use stop function of DASY system. (this stop equal pause because if you not test finished, next time system can find last measure point)
 - 3.2. Stop transmit power of walkie talkie. (release button of walkie talkie)



- 3.3. EUT wait 4 ~5 minute (let module take a break)
 - 3.4. Control DASY system with resume SAR test. (make sure drift close 0dB and start to continue)
 - 3.5. Repeat step 2 to step 5 until sar test finished.
4. We checked sar vs. time table, that sar value have unstable condition in initial 5 minutes.