



1. Scaling-Up SAR Analysis for Hotspot mode Body SAR

For determining SAR compliance, the measured SAR value is scaled to the maximum tune-up power by formula below.

$$\text{Scaled SAR} = \text{Measured SAR} \times (\text{Tune-up Power} / \text{Measured Power})$$

The scaling up SAR is calculated listed in below table. All scaled SAR values are within the SAR limitation of 1.6 W/kg.

<Body SAR: Hotspot Mode>

Band	Mode	Test Position	Ch.	DUT	Battery	Earphone	Measured Conducted Power	Measured SAR _{1g} (W/kg)	Tune-up Power	Scaled SAR
GSM850	GPRS10	Front Face	189	1	1	w/o	32.94	0.578	33	0.586
GSM850	GPRS10	Rear Face	189	1	1	w/o	32.94	1.14	33	1.156
GSM850	GPRS10	Left Side	189	1	1	w/o	32.94	0.871	33	0.883
GSM850	GPRS10	Right Side	189	1	1	w/o	32.94	0.701	33	0.711
GSM850	GPRS10	Down Side	189	1	1	w/o	32.94	0.126	33	0.128
GSM850	GPRS10	Rear Face	128	1	1	w/o	32.75	1.36	33	1.441
GSM850	GPRS10	Rear Face	251	1	1	w/o	32.57	1.16	33	1.281
GSM850	GPRS10	Rear Face	128	1	1	1	32.75	1.03	33	1.091
GSM850	GPRS10	Left Side	128	1	1	w/o	32.75	0.708	33	0.750
GSM850	GPRS10	Left Side	251	1	1	w/o	32.57	0.822	33	0.908
GSM850	GPRS10	Rear Face	189	1	1	1	32.94	0.897	33	0.909
GSM850	GPRS10	Rear Face	251	1	1	1	32.57	0.815	33	0.900
GSM850	GPRS10	Rear Face	128	1	2	w/o	32.75	1.24	33	1.313
GSM850	GPRS10	Rear Face	189	1	2	w/o	32.94	1.1	33	1.115
GSM850	GPRS10	Rear Face	251	1	2	w/o	32.57	1.13	33	1.248
GSM850	GPRS10	Rear Face	128	2	1	w/o	32.75	1.33	33	1.409
GSM850	GPRS10	Rear Face	189	2	1	w/o	32.94	1.3	33	1.318
GSM850	GPRS10	Rear Face	251	2	1	w/o	32.57	1.21	33	1.336
GSM1900	GPRS10	Front Face	810	1	1	w/o	29.75	0.514	29.8	0.520
GSM1900	GPRS10	Rear Face	810	1	1	w/o	29.75	0.425	29.8	0.430
GSM1900	GPRS10	Left Side	810	1	1	w/o	29.75	0.15	29.8	0.152
GSM1900	GPRS10	Right Side	810	1	1	w/o	29.75	0.361	29.8	0.365
GSM1900	GPRS10	Down Side	810	1	1	w/o	29.75	0.34	29.8	0.344
GSM1900	GPRS10	Front Face	810	1	1	1	29.75	0.526	29.8	0.532
GSM1900	GPRS10	Front Face	810	1	2	1	29.75	0.385	29.8	0.389
GSM1900	GPRS10	Front Face	810	2	1	1	29.75	0.473	29.8	0.478
WCDMA V	RMC 12.2K	Front Face	4182	1	1	w/o	23.47	0.298	23.5	0.300
WCDMA V	RMC 12.2K	Rear Face	4182	1	1	w/o	23.47	0.611	23.5	0.615
WCDMA V	RMC 12.2K	Left Side	4182	1	1	w/o	23.47	0.445	23.5	0.448
WCDMA V	RMC 12.2K	Right Side	4182	1	1	w/o	23.47	0.294	23.5	0.296
WCDMA V	RMC 12.2K	Down Side	4182	1	1	w/o	23.47	0.051	23.5	0.051
WCDMA V	RMC 12.2K	Rear Face	4182	1	1	1	23.47	0.376	23.5	0.379
WCDMA V	RMC 12.2K	Rear Face	4182	1	2	w/o	23.47	0.689	23.5	0.694
WCDMA V	RMC 12.2K	Rear Face	4182	2	2	w/o	23.47	0.726	23.5	0.731
WCDMA II	RMC 12.2K	Front Face	9538	1	1	w/o	23.54	0.715	23.6	0.725
WCDMA II	RMC 12.2K	Rear Face	9538	1	1	w/o	23.54	0.489	23.6	0.496
WCDMA II	RMC 12.2K	Left Side	9538	1	1	w/o	23.54	0.184	23.6	0.187
WCDMA II	RMC 12.2K	Right Side	9538	1	1	w/o	23.54	0.383	23.6	0.388
WCDMA II	RMC 12.2K	Down Side	9538	1	1	w/o	23.54	0.351	23.6	0.356
WCDMA II	RMC 12.2K	Front Face	9538	1	1	1	23.54	0.583	23.6	0.591
WCDMA II	RMC 12.2K	Front Face	9538	1	2	w/o	23.54	0.479	23.6	0.486
WCDMA II	RMC 12.2K	Front Face	9538	1	1	w/o	23.54	0.6	23.6	0.608



<Body SAR: Hotspot Mode>

Plot No.	Band	Mode	Test Position	Ch.	DUT	BW	Battery	Earphone	Measured Conducted Power	Measured SAR _{1g} (W/kg)	Tune-up Power	Scaled SAR
166	LTE Band XVII	QPSK,RB50%	Front Face	23800	1	10M	1	w/o	22.08	0.117	22.2	0.120
167	LTE Band XVII	QPSK,RB50%	Rear Face	23800	1	10M	1	w/o	22.08	0.276	22.2	0.284
168	LTE Band XVII	QPSK,RB50%	Left Side	23800	1	10M	1	w/o	22.08	0.09	22.2	0.093
169	LTE Band XVII	QPSK,RB50%	Right Side	23800	1	10M	1	w/o	22.08	0.139	22.2	0.143
170	LTE Band XVII	QPSK,RB50%	Top Side	23800	1	10M	1	w/o	22.08	0.045	22.2	0.046
171	LTE Band XVII	QPSK,RB1,U	Front Face	23800	1	10M	1	w/o	22.85	0.137	23.2	0.148
172	LTE Band XVII	QPSK,RB1,U	Rear Face	23800	1	10M	1	w/o	22.85	0.304	23.2	0.330
173	LTE Band XVII	QPSK,RB1,U	Left Side	23800	1	10M	1	w/o	22.85	0.102	23.2	0.111
174	LTE Band XVII	QPSK,RB1,U	Right Side	23800	1	10M	1	w/o	22.85	0.167	23.2	0.181
175	LTE Band XVII	QPSK,RB1,U	Top Side	23800	1	10M	1	w/o	22.85	0.053	23.2	0.057
176	LTE Band XVII	QPSK,RB1,L	Front Face	23800	1	10M	1	w/o	22.96	0.135	23.2	0.143
177	LTE Band XVII	QPSK,RB1,L	Rear Face	23800	1	10M	1	w/o	22.96	0.347	23.2	0.367
178	LTE Band XVII	QPSK,RB1,L	Left Side	23800	1	10M	1	w/o	22.96	0.103	23.2	0.109
179	LTE Band XVII	QPSK,RB1,L	Right Side	23800	1	10M	1	w/o	22.96	0.165	23.2	0.174
180	LTE Band XVII	QPSK,RB1,L	Top Side	23800	1	10M	1	w/o	22.96	0.057	23.2	0.060
208	LTE Band XVII	QPSK,RB1,L	Rear Face	23800	1	10M	1	1	22.96	0.389	23.2	0.411
214	LTE Band XVII	QPSK,RB1,L	Rear Face	23800	1	10M	2	1	22.96	0.383	23.2	0.405
216	LTE Band XVII	QPSK,RB1,L	Rear Face	23800	2	10M	1	1	22.96	0.339	23.2	0.358
193	LTE Band XVII	16QAM,RB50%	Front Face	23800	1	10M	1	w/o	21.36	0.163	21.2	0.157
194	LTE Band XVII	16QAM,RB50%	Rear Face	23800	1	10M	1	w/o	21.36	0.268	21.2	0.258
195	LTE Band XVII	16QAM,RB50%	Left Side	23800	1	10M	1	w/o	21.36	0.084	21.2	0.081
196	LTE Band XVII	16QAM,RB50%	Right Side	23800	1	10M	1	w/o	21.36	0.14	21.2	0.135
197	LTE Band XVII	16QAM,RB50%	Top Side	23800	1	10M	1	w/o	21.36	0.049	21.2	0.047
198	LTE Band XVII	16QAM,RB1,U	Front Face	23800	1	10M	1	w/o	22.17	0.182	22.2	0.183
199	LTE Band XVII	16QAM,RB1,U	Rear Face	23800	1	10M	1	w/o	22.17	0.317	22.2	0.319
200	LTE Band XVII	16QAM,RB1,U	Left Side	23800	1	10M	1	w/o	22.17	0.084	22.2	0.085
201	LTE Band XVII	16QAM,RB1,U	Right Side	23800	1	10M	1	w/o	22.17	0.153	22.2	0.154
202	LTE Band XVII	16QAM,RB1,U	Top Side	23800	1	10M	1	w/o	22.17	0.053	22.2	0.053
209	LTE Band XVII	16QAM,RB1,U	Rear Face	23800	1	10M	1	1	22.17	0.301	22.2	0.303
203	LTE Band XVII	16QAM,RB1,L	Front Face	23800	1	10M	1	w/o	22.35	0.185	22.2	0.179
204	LTE Band XVII	16QAM,RB1,L	Rear Face	23800	1	10M	1	w/o	22.35	0.306	22.2	0.296
205	LTE Band XVII	16QAM,RB1,L	Left Side	23800	1	10M	1	w/o	22.35	0.082	22.2	0.079
206	LTE Band XVII	16QAM,RB1,L	Right Side	23800	1	10M	1	w/o	22.35	0.161	22.2	0.156
207	LTE Band XVII	16QAM,RB1,L	Top Side	23800	1	10M	1	w/o	22.35	0.055	22.2	0.053



<Body SAR: Hotspot Mode>

Plot No.	Band	Mode	Test Position	Ch.	DUT	BW	Battery	Earphone	Measured Conducted Power	Measured SAR _{1g} (W/kg)	Tune-up Power	Scaled SAR
112	LTE Band IV	QPSK,RB50%	Front Face	20350	1	10M	1	w/o	22.68	0.369	22.8	0.379
113	LTE Band IV	QPSK,RB50%	Rear Face	20350	1	10M	1	w/o	22.68	0.57	22.8	0.586
114	LTE Band IV	QPSK,RB50%	Left Side	20350	1	10M	1	w/o	22.68	0.07	22.8	0.072
115	LTE Band IV	QPSK,RB50%	Right Side	20350	1	10M	1	w/o	22.68	0.193	22.8	0.198
232	LTE Band IV	QPSK,RB50%	Down Side	20350	1	10M	1	w/o	22.68	0.269	22.8	0.277
117	LTE Band IV	QPSK,RB1,U	Front Face	20350	1	10M	1	w/o	23.59	0.585	23.8	0.614
118	LTE Band IV	QPSK,RB1,U	Rear Face	20350	1	10M	1	w/o	23.59	0.887	23.8	0.931
119	LTE Band IV	QPSK,RB1,U	Left Side	20350	1	10M	1	w/o	23.59	0.118	23.8	0.124
120	LTE Band IV	QPSK,RB1,U	Right Side	20350	1	10M	1	w/o	23.59	0.316	23.8	0.332
233	LTE Band IV	QPSK,RB1,U	Down Side	20350	1	10M	1	w/o	23.59	0.406	23.8	0.426
210	LTE Band IV	QPSK,RB1,U	Rear Face	20000	1	10M	1	w/o	23.38	1.11	23.8	1.223
211	LTE Band IV	QPSK,RB1,U	Rear Face	20175	1	10M	1	w/o	22.82	0.733	23.8	0.919
218	LTE Band IV	QPSK,RB1,U	Rear Face	20000	1	10M	1	1	23.38	1.07	23.8	1.179
220	LTE Band IV	QPSK,RB1,U	Rear Face	20350	1	10M	1	1	23.59	0.883	23.8	0.927
221	LTE Band IV	QPSK,RB1,U	Rear Face	20175	1	10M	1	1	22.82	0.749	23.8	0.939
226	LTE Band IV	QPSK,RB1,U	Rear Face	20000	1	10M	2	w/o	23.38	1.03	23.8	1.135
227	LTE Band IV	QPSK,RB1,U	Rear Face	20175	1	10M	2	w/o	22.82	0.696	23.8	0.872
228	LTE Band IV	QPSK,RB1,U	Rear Face	20350	1	10M	2	w/o	23.59	0.825	23.8	0.866
229	LTE Band IV	QPSK,RB1,U	Rear Face	20000	2	10M	1	w/o	23.38	0.956	23.8	1.053
230	LTE Band IV	QPSK,RB1,U	Rear Face	20350	2	10M	1	w/o	23.59	0.842	23.8	0.884
231	LTE Band IV	QPSK,RB1,U	Rear Face	20175	2	10M	1	w/o	22.82	0.702	23.8	0.880
122	LTE Band IV	QPSK,RB1,L	Front Face	20350	1	10M	1	w/o	23.62	0.482	23.8	0.502
123	LTE Band IV	QPSK,RB1,L	Rear Face	20350	1	10M	1	w/o	23.62	0.737	23.8	0.768
124	LTE Band IV	QPSK,RB1,L	Left Side	20350	1	10M	1	w/o	23.62	0.095	23.8	0.099
125	LTE Band IV	QPSK,RB1,L	Right Side	20350	1	10M	1	w/o	23.62	0.232	23.8	0.242
234	LTE Band IV	QPSK,RB1,L	Down Side	20350	1	10M	1	w/o	23.62	0.315	23.8	0.328
139	LTE Band IV	16QAM,RB50%	Front Face	20350	1	10M	1	w/o	22.14	0.467	21.8	0.432
140	LTE Band IV	16QAM,RB50%	Rear Face	20350	1	10M	1	w/o	22.14	0.477	21.8	0.441
141	LTE Band IV	16QAM,RB50%	Left Side	20350	1	10M	1	w/o	22.14	0.089	21.8	0.082
142	LTE Band IV	16QAM,RB50%	Right Side	20350	1	10M	1	w/o	22.14	0.251	21.8	0.232
235	LTE Band IV	16QAM,RB50%	Down Side	20350	1	10M	1	w/o	22.14	0.238	21.8	0.220
144	LTE Band IV	16QAM,RB1,U	Front Face	20350	1	10M	1	w/o	22.45	0.548	22.8	0.594
145	LTE Band IV	16QAM,RB1,U	Rear Face	20350	1	10M	1	w/o	22.45	0.695	22.8	0.753
146	LTE Band IV	16QAM,RB1,U	Left Side	20350	1	10M	1	w/o	22.45	0.104	22.8	0.113
147	LTE Band IV	16QAM,RB1,U	Right Side	20350	1	10M	1	w/o	22.45	0.315	22.8	0.341
236	LTE Band IV	16QAM,RB1,U	Down Side	20350	1	10M	1	w/o	22.45	0.333	22.8	0.361
216	LTE Band IV	16QAM,RB1,U	Rear Face	20000	1	10M	1	w/o	22.45	0.966	22.8	1.047
217	LTE Band IV	16QAM,RB1,U	Rear Face	20175	1	10M	1	w/o	21.94	0.675	22.8	0.823
219	LTE Band IV	16QAM,RB1,U	Rear Face	20000	1	10M	1	1	22.45	0.894	22.8	0.969
222	LTE Band IV	16QAM,RB1,U	Rear Face	20350	1	10M	1	1	22.45	0.661	22.8	0.716
223	LTE Band IV	16QAM,RB1,U	Rear Face	20175	1	10M	1	1	21.94	0.565	22.8	0.689
149	LTE Band IV	16QAM,RB1,L	Front Face	20350	1	10M	1	w/o	22.62	0.399	23.8	0.524
150	LTE Band IV	16QAM,RB1,L	Rear Face	20350	1	10M	1	w/o	22.62	0.506	23.8	0.664
151	LTE Band IV	16QAM,RB1,L	Left Side	20350	1	10M	1	w/o	22.62	0.081	23.8	0.106
152	LTE Band IV	16QAM,RB1,L	Right Side	20350	1	10M	1	w/o	22.62	0.222	23.8	0.291
237	LTE Band IV	16QAM,RB1,L	Down Side	20350	1	10M	1	w/o	22.62	0.26	23.8	0.341



<Body SAR: Hotspot Mode>

Plot No.	Band	Test Position	Channel	DUT	Battery	Earphone	Measured Conducted Power	Measured SAR _{1g} (W/kg)	Tune-up Power	Scaled SAR
304	802.11b	Front Face	6	1	1	w/o	18.1	0.062	18.1	0.062
305	802.11b	Rear Face	6	1	1	w/o	18.1	0.211	18.1	0.211
306	802.11b	Left Side	6	1	1	w/o	18.1	0.143	18.1	0.143
310	802.11b	Rear Face	6	1	1	1	18.1	0.127	18.1	0.127
335	802.11b	Rear Face	6	1	2	w/o	18.1	0.206	18.1	0.206
348	802.11b	Rear Face	6	2	1	w/o	18.1	0.197	18.1	0.197

2. Scaling-Up SAR Analysis for Simultaneous Transmission Mode

For simultaneous transmission evaluation, the standalone SAR and maximum SAR summation are calculated listed as below. The scaled SAR summation has only one condition over 1.6 on GSM850 and WLAN in Rear Face position. After volume scan analysis, the scaled multi-band SAR is within SAR limitation of 1.6 W/kg. The detail analysis is as below.

Measured SAR in Rear Face

GSM850 (Data) : 1.36

WLAN (Data) : 0.211

SAR Summation : 1.571

Scaled SAR in Rear Face

GSM850 (Data) : 1.441

WLAN (Data) : 0.211

SAR Summation : **1.652****Volume Scan SAR in Rear Face**

GSM850 (Data) : 1.32

WLAN (Data) : 0.212

Multi-Band SAR : 1.36

The contribution of GSM850 is 1.32 W/kg

The contribution of WLAN is "Multi-Band SAR" - "GSM850" = 1.36 - 1.32 = 0.04 W/kg

Since the scaled WLAN SAR is almost the same as volume scan WLAN SAR, the contribution for scaled WLAN SAR would be the same as 0.04 W/kg. Therefore, the scaled Multi-Band SAR would be as below.

Scaled GSM850 SAR= Volume SAR x (Tune-up Power / Measured Power)

= 1.32 x (10^(33 / 10) / 10^(32.75 / 10)) = 1.40**Scaled Multi-Band SAR**= Scaled GSM850 SAR + WLAN Contribution = 1.40 + 0.04 = **1.44** W/kg



<Simultaneous Transmission Configuration 1>

Position (Hotspot)	Measured SAR GSM850 (Data)	Measured SAR 802.11b/g/n (Data)	Maximum Measured SAR Summation	Scaled SAR GSM850 (Data)	Scaled SAR 802.11b/g/n (Data)	Maximum Scaled SAR Summation
Front Face	0.578	0.062	0.640	0.586	0.062	0.648
Rear Face	1.36	0.211	1.571	1.441	0.211	1.652
Left Side	0.822	0.143	0.965	0.908	0.143	1.051
Right Side	0.701	0	0.701	0.711	0	0.711
Top Side	0	0	0.000	0	0	0.000
Down Side	0.126	0	0.126	0.128	0	0.128

<Simultaneous Transmission Configuration 2>

Position (Hotspot)	Measured SAR GSM1900 (Data)	Measured SAR 802.11b/g/n (Data)	Maximum Measured SAR Summation	Scaled SAR GSM1900 (Data)	Scaled SAR 802.11b/g/n (Data)	Maximum Scaled SAR Summation
Front Face	0.526	0.062	0.588	0.532	0.062	0.594
Rear Face	0.425	0.211	0.636	0.430	0.211	0.641
Left Side	0.15	0.143	0.293	0.152	0.143	0.295
Right Side	0.361	0	0.361	0.365	0	0.365
Top Side	0	0	0.000	0	0	0.000
Down Side	0.34	0	0.340	0.344	0	0.344

<Simultaneous Transmission Configuration 3>

Position (Hotspot)	Measured SAR WCDMA V (Data)	Measured SAR 802.11b/g/n (Data)	Maximum Measured SAR Summation	Scaled SAR WCDMA V (Data)	Scaled SAR 802.11b/g/n (Data)	Maximum Scaled SAR Summation
Front Face	0.298	0.062	0.360	0.300	0.062	0.362
Rear Face	0.726	0.211	0.937	0.731	0.211	0.942
Left Side	0.445	0.143	0.588	0.448	0.143	0.591
Right Side	0.294	0	0.294	0.296	0	0.296
Top Side	0	0	0.000	0	0	0.000
Down Side	0.051	0	0.051	0.051	0	0.051

<Simultaneous Transmission Configuration 4>

Position (Hotspot)	Measured SAR WCDMA II (Data)	Measured SAR 802.11b/g/n (Data)	Maximum Measured SAR Summation	Scaled SAR WCDMA II (Data)	Scaled SAR 802.11b/g/n (Data)	Maximum Scaled SAR Summation
Front Face	0.715	0.062	0.777	0.725	0.062	0.787
Rear Face	0.489	0.211	0.700	0.496	0.211	0.707
Left Side	0.184	0.143	0.327	0.187	0.143	0.330
Right Side	0.383	0	0.383	0.388	0	0.388
Top Side	0	0	0.000	0	0	0.000
Down Side	0.351	0	0.351	0.356	0	0.356



<Simultaneous Transmission Configuration 5>

Position (Hotspot)	Measured SAR LTE XVII (Data)	Measured SAR 802.11b/g/n (Data)	Maximum Measured SAR Summation	Scaled SAR LTE XVII (Data)	Scaled SAR 802.11b/g/n (Data)	Maximum Scaled SAR Summation
Front Face	0.182	0.062	0.244	0.183	0.062	0.245
Rear Face	0.389	0.211	0.600	0.411	0.211	0.622
Left Side	0.102	0.143	0.245	0.111	0.143	0.254
Right Side	0.167	0	0.167	0.181	0	0.181
Top Side	0.057	0	0.057	0.060	0	0.060
Down Side	0	0	0.000	0	0	0.000

<Simultaneous Transmission Configuration 6>

Position (Hotspot)	Measured SAR LTE IV (Data)	Measured SAR 802.11b/g/n (Data)	Maximum Measured SAR Summation	Scaled SAR LTE IV (Data)	Scaled SAR 802.11b/g/n (Data)	Maximum Scaled SAR Summation
Front Face	0.585	0.062	0.647	0.614	0.062	0.676
Rear Face	1.11	0.211	1.321	1.223	0.211	1.434
Left Side	0.118	0.143	0.261	0.124	0.143	0.267
Right Side	0.315	0	0.315	0.341	0	0.341
Top Side	0	0	0.000	0	0	0.000
Down Side	0.406	0	0.406	0.426	0	0.426

<Volume Scan result for GSM850 GPRS10 hotspot mode>

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2012/03/06

P401 GSM850_GPRS10_Rear Face_1cm_Ch128_Volume**DUT: 110805C09**

Communication System: GSM850 GPRS10; Frequency: 824.2 MHz; Duty Cycle: 1:4
Medium: B835_0306 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$

kg/m³

Ambient Temperature : 21.5 °C; Liquid Temperature : 20.6 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch128/Volume Scan (12x20x10): Measurement grid: dx=8mm, dy=8mm, dz=5mm

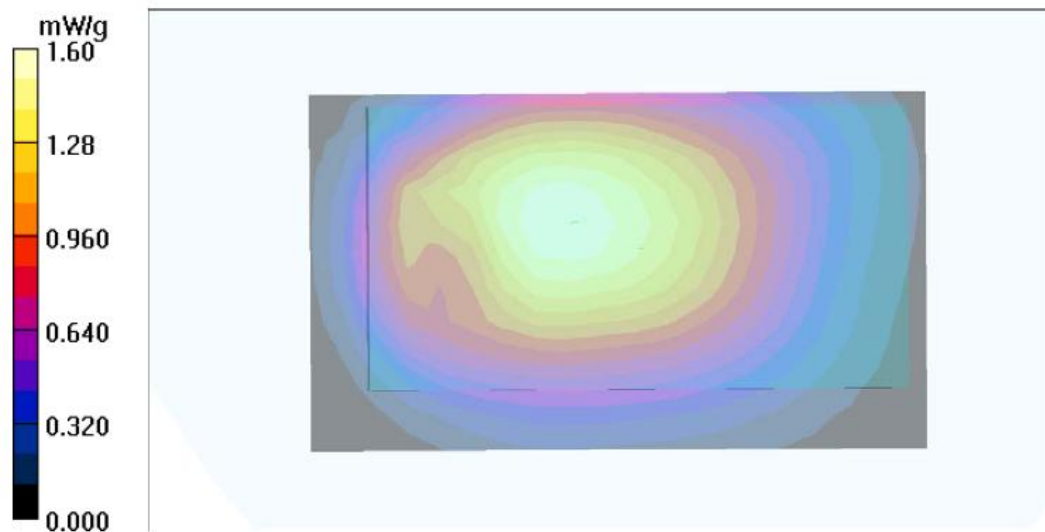
Reference Value = 36.9 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 1.01 mW/g

Total Absorbed Power = 0.163773 W

Maximum value of SAR (measured) = 1.60 mW/g



<Volume Scan result for 802.11b hotspot mode>

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2012/03/06

P113 802.11b_Rear Face_Ch6_Volume

DUT: 110805C09

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: B2450_0306 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³
Ambient Temperature : 22.6 °C; Liquid Temperature : 21.5 °C

DASY4 Configuration:

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch6/Volume Scan (12x20x10): Measurement grid: dx=8mm, dy=8mm, dz=5mm

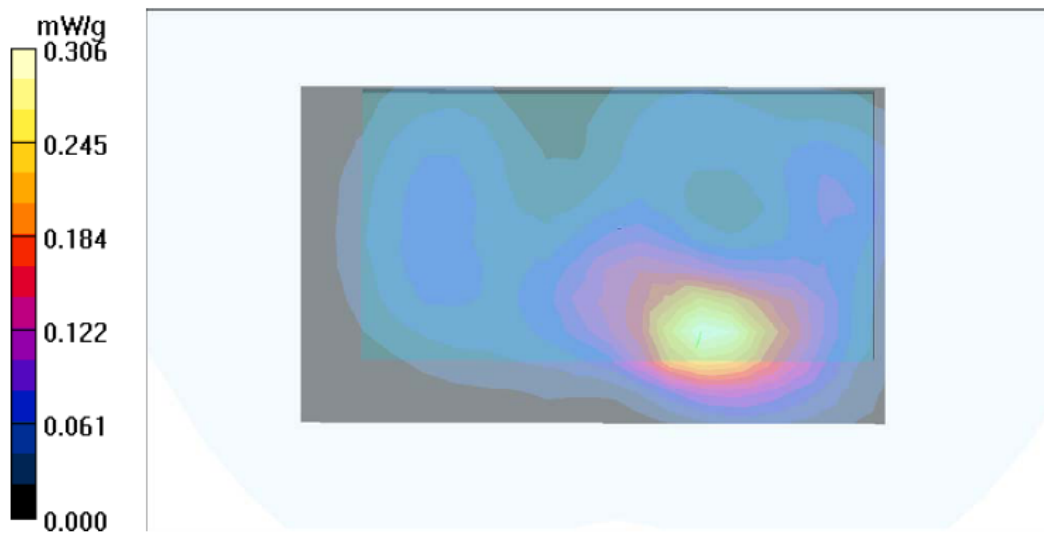
Reference Value = 6.74 V/m; Power Drift = -0.142 dB

Peak SAR (extrapolated) = 0.418 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.107 mW/g

Total Absorbed Power = 0.00781928 W

Maximum value of SAR (measured) = 0.306 mW/g



<Multi-Band SAR result for GSM850 GPRS10 and 802.11b hotspot mode>

Test Laboratory: Bureau Veritas ADT SAR/HAC Testing Lab

Date: 2012/03/06

DUT: 110805C09

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: B2450_0306 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASy4 (High Precision Assessment)

- Probe: EX3DV4 - SN3800; ConvF(6.75, 6.75, 6.75); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASy4, V4.7 Build 80

Date/Time: 2012/03/06

DUT: 110805C09

Communication System: GSM850 GPRS10; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: B835_0306 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.983$ mho/m; $\epsilon_r = 55.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASy4 (High Precision Assessment)

- Probe: EX3DV4 - SN3800; ConvF(8.94, 8.94, 8.94); Calibrated: 2011/08/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1277; Calibrated: 2011/07/29
- Phantom: SAM Phantom_Front; Type: SAM V4.0; Serial: TP 1654
- Measurement SW: DASy4, V4.7 Build 80

Multi Band Result:**SAR(1 g) = 1.36 mW/g; SAR(10 g) = 1.03 mW/g**

Maximum value of SAR (measured) = 1.63 mW/g

