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1.0 Phantom Thickness

The 450MHz validations performed on the 24th and 25th February were performed in the 6mm section of the combination 2mm/6mm phantom. Validations were also confirmed using the SPEAG 6mm reference phantom.

2.0 SAR Scaling

Please refer to SAR report M030212R issue date 7th March 2003 page 16 and letter "Response to TCB questions" 7th March 2003, Question 7.

Example of Scaling to account for Droop

It appears that our explanation for power droop scaling is not clear. The droop period is accounted for. The SAR is scaled up to include worst-case power droop, i.e from moment of initial power up of device, to the end of the 20-minute discharge period plus the SAR scan time.

An example calculation follows:

Refer to Table 7, page 17 of SAR report M030212R, Row 1 "Belt-Clip Position", Plot Number 1.

- A. The measured SAR level was 6.60 mW/g (1g), this is the value that appears on the SAR Plot 1 on Page 25.
- B. The *Conducted Power Measured after test* (*2) (34.81 dBm) is listed in Table 6.
- C. The reference power measured at initial power on (i.e start of the 20min battery drainage period) for the particular channel is listed in Table 1 page 5.
- D. The difference between these two power measurements is used to scale up the SAR level.

e.g Row 1 "Belt-Clip Position", Plot Number 1.

- A. Measured SAR level 6.6mW/g
- B. Power measured after test is 34.81dBm
- C. Reference value listed in Table 1 for channel number 1 is 36.17dBm.
- D_(dB) Difference between power measurements is 1.36dB
- D_(Linear) Difference between power measurements in 'linear' units is 1.37
- D_(Linear) $6.6\text{mW/g} \Rightarrow$ Scale up measured SAR by the worst case power difference = 9.04mW/g

Scaled SAR value is 9.04mW/g (this value is listed in table 7, row 1 column 1 "Belt-Clip position", Plot 1)



NATA Accredited
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