



MOTOROLA

Date: April 24, 2003

Subject: Request for additional information (FCC ID IHDT56CG1)

Reference:

Correspondence Reference Number:	6119
Confirmation Number:	TC516641
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Summary of FCC request for additional information:

Regarding your answer to correspondence 5688 please make the requested measurements with a fully calibrated probe. The proper utilization of a probe can be easily verified by the calibration certificate. In this case the provided certificate does not show calibration for 1900 MHZ body.

Response:

The manufacturer of the probes (SPEAG) agrees with the use of the 1800MHz body-worn conversion factor. To resolve this issue, they are now updating our calibration sheets to reflect that the 1800MHz body worn conversion factor can also be used for 1900MHz body worn. Please see the example in appendix 1.

Appendix 1

New Probe Calibration Sheet Supplied by SPEAG

Additional Conversion Factors for Dosimetric E-Field Probe

Type:

ET3DV6R

Serial Number:

1522

Place of Assessment:

Zurich

Date of Assessment:

May 8, 2002

Probe Calibration Date:

April 25, 2002

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by:

Dosimetric E-Field Probe ET3DV6R SN:1522

Conversion factor (\pm standard deviation)

835 MHz	ConvF	$4.6 \pm 8\%$	$\epsilon = 41.5 \pm 5\%$ $\sigma = 0.90 \pm 5\% \text{ mho/m}$ (head tissue)
1950 MHz	ConvF	$3.2 \pm 8\%$	$\epsilon = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\% \text{ mho/m}$ (head tissue)
835 MHz	ConvF	$4.4 \pm 8\%$	$\epsilon = 55.2 \pm 5\%$ $\sigma = 0.97 \pm 5\% \text{ mho/m}$ (body tissue)
900 MHz	ConvF	$4.3 \pm 8\%$	$\epsilon = 55.0 \pm 5\%$ $\sigma = 1.05 \pm 5\% \text{ mho/m}$ (body tissue)
1800 MHz 1900 MHz	ConvF	$3.1 \pm 8\%$	$\epsilon = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\% \text{ mho/m}$ (body tissue)
1950 MHz	ConvF	$3.0 \pm 8\%$	$\epsilon = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\% \text{ mho/m}$ (body tissue)