



To: Steven Dayhoff (Steven.Dayhoff@fcc.gov)
/FCC Equipment Authorization Branch

Date: 8/25/2004

From: James Kwon (james.kwon@sgs.com)
/Lab manager of R&TTE Div

CC: Klaus Knoerig (kknoerig@emcc.de)
Jong-woon Kim/E-TECH (jwk1970@chol.com)

Applicant : E-TECH Co., Ltd.
FCC ID : R72IP100
Correspondence Reference Number : 27442
731 Confirmation Number : EA878636

Subject : Reply for Info Request dated 8/23/2004

Q1) SAR system verification page 17 or 22 states 150MHz liquid - please describe how dipole SAR target value is obtained for Schwarzbeck dipole with this liquid.

A1) As you know, for all frequency range in the 30~300 MHz, the system verification shall be made at 300 MHz using a 300 MHz dipole antenna and the 300 MHz tissue equivalent liquid.

(We got this proposal information for 30~300 MHz testing from Mr. Meier Matthias (Matthias.Meier@motorola.com) by e-mail on 6/8/2004 and 6/9/2004))

The using frequency of IP100 is 136-174 MHz, so we made the liquid (30~300MHz) for 150 MHz test and named it as "150 MHz Head Simulated Liquid".

Then we did verification test with 300 MHz Schwarzbeck dipole antenna and the liquid (30~300 MHz) on point of 300 MHz. (Deviation is less than 10%)

(That is, the name of "150 MHz Head" on page 17 and 22 is just the "name of liquid we made".)

And SPEAG does not offer the dipole antenna under 450 MHz. We surveyed many SAR test report from FCC web site, and we found that most of them used standard dipole antenna. (One example : FCC ID: ONKATP-100, pager 5 of 6 of SAR test report, manufacturer: Airtech, tested by ETS Dr. Genz GmbH)



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Therefore we used the standard dipole antenna that we had. (Schwarzbeck / Model:UHAP-10dB).

Q2) Please submit photo of SAR sys. verification dipole setup.

A2) Please refer to attached two set-up photos.

If you have further questions feel free to contact me.

Regards,

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James Kwon (james_kwon@sgs.com) / R&TTE Division

Tel : 82-31-428-5740

Fax: 82-31-427-2371

Mobile : 82-11-9788-0485

SGS Testing Korea Co., Ltd. (www.sgstesting.co.kr)

Add: 18-34, Sanbon-Dong, Gunpo-City, Kyunggi-Do, Korea

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