

Matsushita Electric Corporation of America

Product Safety & Compliance Division

Panasonic Quasar Technics

1 Panasonic Way, 4B-8
Secaucus, NJ 07094
Fax: (201) 392-4564
e-mail: shahatz@panasonic.com

Zameel Shahat
Project Engineer
Tel: (201) 392-4161

July 31, 2001

KMTDKM4-01-U24

731 Confirmation Number: EA101211

To: Joseph Dichoso / FCC Application Processing Branch
From: Zameel Shahat / Matsushita Electric Corp. of America

Re: FCC ID ACJ96NKX-TG2481
Applicant: Matsushita Electric Industrial Co Ltd
Correspondence Reference Number: 20008
731 Confirmation Number: EA101211

Please note following answers to your above referenced correspondence inquiry:

1- The antenna gain is 2.14 dBi.

2- The sample calculation @ 2434.5 MHz

$$\begin{aligned} F/S &= \text{Meter reading @ 3 m. in dBm} + 107.0 + \text{AFCL} \\ &= -24.5 + 107.0 + 32.8 = 115.3 \text{ dBuV/M} \end{aligned}$$

The antenna gain is 2.14 dBi.

$$(\text{FS} * 3)^2$$

$$\begin{aligned} \text{Conducted Power} &= \frac{\text{Power Density} \times \text{Area}}{\text{Gain}} \\ &= \frac{(115.3 \text{ dBuV/M})^2 \times (3 \text{ m})^2}{(30)(1.64)} = 62.0 \text{ mW} \end{aligned}$$

Please see the amendment sample calculation file.

3- The Theoretical Process Gain is 11.76 dB (for Base and Portable Units).

4- I download the RF photo for base and handset at 7/31/01.

5- the reason that the conductivity tissue parameter is over estimated by over 5% because the Glycol proof SAM phantom is not yet commercially available so we had to use a recipe that would not damage our phantom. Please be advised that this configuration is on the side of caution.

6- Please see the Amendment SAR test file.

Should you have any questions, please contact the undersigned. Thank you for your attention in this matter.

Sincerely yours,

Zameel Shahat
Project Engineer