

Matsushita Electric Corporation of America

Product Safety & Compliance Division

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June 17, 1999

KM499-U027A

Form 731 Confirmation No.: EA94139

Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Road
Columbia, MD. 21046

Attn: Joseph Dichoso, Electronic Engineer

Subject: Supplement to Original Application for Certification of 900/2400MHz Spread Spectrum Cordless Telephone System, Panasonic Model KX-TG2550 Series Base Unit, FCC ID: ACJ96NKX-TG2550

Dear Mr. Dichoso:

This is in response to your correspondence reference number 8216 dated June 14, 1999 regarding comments for the subject application that was assigned Form 731 Confirmation Number EA94139. Please note the following answers:

1. Spread Spectrum Chip

This employed spread spectrum chip, type PQVIMB8L3040 is manufactured by Fujitsu.

2. Theoretical Process Gain

The theoretical process gain is 14.1 dB based upon the following:

- RX spread spectrum rate is 1.28Mcps
- Baseband signal bandwidth (instead of data ratio) is 50kHz
- RX chip/symbol ratio is 1.28M/50K
- Regarding your statement that the jamming margin calculation did not take into account the pad loss for determining the jammer level at the receiver. Please be advised the pad loss for both desired and undesired signal is same 15 dB, so we believe this loss need not be included within the calculation. Please advise if our understand is incorrect.
- Theoretical Process Gain is: $10 \log (1.28M/50K) = 14.1 \text{ dB}$

3. Restricted Band 2483.5 – 2500 MHz

Attached, find the following amended and additional test data:

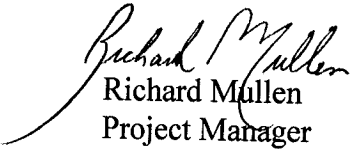
- Amended radiated measurements (fundamental and harmonics) to include outer channel 25 at 2477.84 MHz with average detector test measurement results for restricted band 2483.50 MHz.
- Additional test data generated on channel 25 with marker set at restricted band 2483.50 MHz @ -50.8dB μ V/m with video bandwidth set at 10Hz with maximum allowable limit being 54dB μ V/m.

4. Maximum Rated Output Power

We understand as the reported test result only included sample tested with maximum 126.6 mW output that it would not be acceptable to allow a higher rated output without additional tests. As such, we withdrawn our past request for authorization to include +3dB RF output for production tolerances.

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

Sincerely yours,


Richard Mullen
Project Manager

cc: K. Nawata / KME-KM4