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RE: Tekkeon
FCC ID: RJ6ET1000S

1) Only one of the users manuals provided was updated for the missing the statements required by 15.21. Please correct both manuals.

Response: Second manual uploaded with 15.21 statement.

2) Note that Run #3 has labeled all channels as LOW. This likely should have been LOW, MIDDLE, and HIGH.

Response: This has been corrected.

3) Has the antenna of this device been quantified for gain as 0 dBi? If not, please provide additional information using the substitution method to support the power measurements provided.

Response: Per client the gain is about 2dBi. The stated conducted power is 4dBm + 2dBi = 6 dBm EIRP (6.07dBm is the reported EIRP power). Per OET 63 (Page 29) states another formula to use for low power non-license transmitters. Using this equation, and assuming a unity gain antenna (G = 1) for EIRP or (G = 1.64) for ERP and a measurement distance of 3 meters (D = 3), a formula for determining power given field strength can be developed:

P=0.3*E^2

Where:

P = power in watts EIRP
E = Field strength in V/m

So:

101.37 dBuV/m = 0.117 V/m
P = 0.3 * (0.117)^2
P = 0.004113 Watts
P = 6.14 dBm (EIRP)

The formula we used:

P = E (dBuV/m) - 95.3dB

Where:

P = power in dBm
E = Field strength in dBuV/m

So:

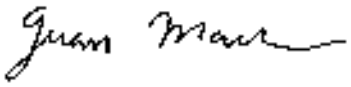
P = 101.37 – 95.3dB
P = 6.07 dBm (EIRP)

The difference between this equation and formula we use is about 0.07 dB differences.

Per the client the power cannot be measured directly due to mismatch impedance problems.

Anything else please let me know.

Regards,



Juan Martinez
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