

Marianne Bosley

From: Ricardo Orejas Rodríguez [rorej@cecom.es]
Sent: Monday, January 27, 2003 6:43 AM
To: MBosley@metlabs.com
Cc: GCzumak@metlabs.com
Subject: RE: Metrak #13165 Barcode Wireless Technology Request for Technical Info

Importance: High



Annex to test report
17566RET....



Annex to test report
17566RET....



15.247 (a) (1)
Statement - Blu...



15.247 (g) Statement -
Bluetooth...



15.247 (h) Statement -
Bluetooth...

Hello,

Please find the answers to your questions:

MET QUESTION # 1. The measured conducted output power is 4.71 dBm, and the nominal antenna gain is listed as 1 dBi, yielding a theoretical EIRP of 5.71 dBm. The actual measured EIRP, however, is much lower: -7.77 dBm. Please address the discrepancy between the theoretical EIRP and the measured EIRP (i.e., losses in the transmit system, etc.). If the measured EIRP is accurate, then, per FCC policy, that is the level that will be listed on the grant of certification, with the note that it is the measured EIRP.

CETECOM's answer: See attached file "Annex to test report 17566RET.101_ EIRP clarification.doc"

<<Annex to test report 17566RET.101_ EIRP clarification.doc>>

MET QUESTION # 2. Please provide radiated emission data for emissions in Restricted Bands, as defined in Section 15.205, in particular, for spurious emissions at the upper bandedge, in the 2483.5 - 2500 MHz restricted band, as well as the 2nd and 3rd harmonics.

CETECOM's answer: See attached file "Annex to test report 17566RET.101_ Radiated emission data for emissions in Restricted Bands.doc"

<<Annex to test report 17566RET.101_ Radiated emission data for emissions in Restricted Bands.doc>>

MET QUESTION # 3. Please address the following 15.247(a)(1) issues:

- a. Is each frequency used equally, on average?
- b. Is the hopping sequence pseudorandom?
- c. Is the associated receiver input bandwidth approximately equal to the transmit bandwidth?
- d. Does the associated receiver have the capability to hop in sequence with the transmitted signal?

CETECOM's answer: See attached file "15.247 (a) (1) Statement - Bluetooth devices.doc"

<<15.247 (a) (1) Statement - Bluetooth devices.doc>>

MET QUESTION # 4. Please address Sections 15.247(g) and (h).

CETECOM's answer: See attached files "15.247 (g) Statement - Bluetooth devices.doc" and "15.247 (h) Statement - Bluetooth devices.doc"

<<15.247 (g) Statement - Bluetooth devices.doc>> <<15.247 (h) Statement - Bluetooth devices.doc>>

If you have any additional doubt please let me know.

Best regards,

Ricardo Orejas
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-----Original Message-----

From: MBosley@metlabs.com [mailto:MBosley@metlabs.com]
Sent: Thursday, January 23, 2003 5:59 PM
To: rorejas@cetecom.es
Cc: MBosley@metlabs.com; GCzumak@metlabs.com
Subject: Metrak #13165 Barcode Wireless Technology Request for Technical Info

Hello,

The reviewing engineer has completed his initial review and has the following technical questions:

RT questions:

1. The measured conducted output power is 4.71 dBm, and the nominal antenna gain is listed as 1 dBi, yielding a theoretical EIRP of 5.71 dBm. The actual measured EIRP, however, is much lower: -7.77 dBm. Please address the discrepancy between the theoretical EIRP and the measured EIRP (i.e., losses in the transmit system, etc.). If the measured EIRP is accurate, then, per FCC policy, that is the level that will be listed on the grant of certification, with the note that it is the measured EIRP.

2. Please provide radiated emission data for emissions in Restricted Bands, as defined in Section 15.205, in particular, for spurious emissions at the upper bandedge, in the 2483.5 - 2500 MHz restricted band, as well as the 2nd and 3rd harmonics.

3. Please address the following 15.247(a)(1) issues:

- a. Is each frequency used equally, on average?
- b. Is the hopping sequence pseudorandom?
- c. Is the associated receiver input bandwidth approximately equal to the transmit bandwidth?
- d. Does the associated receiver have the capability to hop in sequence with the transmitted signal?

4. Please address Sections 15.247(g) and (h).

Once these issues are addressed, we can go further. If you have any questions, please let me know.

Regards,

Marianne
checklist.doc