

Marianne Bosley

From: Greg Czumak
Sent: Wednesday, September 12, 2001 5:36 PM
To: Marianne Bosley
Cc: Chris Harvey
Subject: RE: Zirkon MET #11064

Technical review complete, RT questions below. The 1st question is a potential non-compliance issue...checklist attached.

Gregory

RT Questions:

1. The transmitter pulsed "on time" is listed in the test report as 112.5 ms, with a period of 2.175 s. Pursuant to Section 15.35(c), since the period is greater than 100 ms, the duty cycle is determined over the worst case period of 100 ms. If the unit transmits continually during the 112.5 ms, there would be a 100% duty cycle, and no allowable duty cycle correction factor (i.e., peak = average). The 5th harmonic, at 1575 MHz, is listed as having a peak field strength of 59.48 dBuV/m @ 3m. This emission falls in a restricted band, per Section 15.205, where the limit is defined by Section 15.209 as 53.9 dBuV/m @3m (the limit listed in the data table is incorrect). If there is no allowable duty cycle correction factor, the device would be noncompliant. However, the TX Spec sheet states that the pulsed "on time" is 50 ms. If this is the case, then the duty cycle correction factor would be 0.5 = -6dB, and the average level of the 5th harmonic would be (marginally) compliant. Please address. If the pulsed on time is, indeed, 50 ms, please provide a time domain plot verifying this value.
2. Please state what type of antenna is used (e.g., trace on pcb), and address Section 15.203.
3. Was the unit tested in 3 orthogonal planes, as required by the test procedure? Please state this specifically, if this is the case.

-----Original Message-----

From: Marianne Bosley
To: Greg Czumak
Sent: 9/11/2001 9:07 PM
Subject: Zirkon MET #11064

Greg,

This one is due for granting. Liming tested.

<<EMC11064.wpd>> <<configuration11064.wpd>> <<Document.PDF>>
<<extrnal.jpg>> <<back.jpg>> <<front.jpg>> <<064bw10.gif>>
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#11064 checklist
(DSC).doc