



Global Product Certification  
EMC-EMF Safety Approvals

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Timco Engineering, Inc  
TCB Application Form 731

14<sup>th</sup> April 2011

**Application for FCC Certification Part 15 Class B, FCC ID: MOQ-LF701, Base Station  
Additional Information Request, Reference: JOB 674AU11**

Dear Sir or Madam:

I refer to your email on 13<sup>th</sup> April 2011 about the additional information requested.

1. FILES: This filing should only be for the Base Station. Please remove the Battle Suit from the following files:  
Block Diagram  
Schematics Test Setup Photos  
Label Location
2. CONFIDENTIALITY REQUEST: Please include the following in the confidentiality request "Pursuant to Sections 0.457 & 0.49 of the Commission's Rules"
3. USER MANUAL: The user manual is for starting a business. Please provide a user manual for the Base Station.
4. TEST REPORT & GRAPHS EMI:
  - a. Please provide testing for the Base Station only.
  - b. Please provide test data, to the tenth harmonic, for all three fundamental frequencies.
  - c. Please provide plots and data to show emissions at 2400 MHz, are 20 dB or more below the fundamental, when transmitting at 2400.54 MHz.
  - d. Please provide plots and data to show emissions, in the adjacent lower restricted band 2310-2390 MHz, are at 54 dB $\mu$ V/m average or lower, when transmitting at 2400.54 MHz.
  - e. Please provide plots and data to show emissions, in the adjacent upper restricted band 2483.5-2500 MHz, are at 54 dB $\mu$ V/m average or lower, when transmitting at 2480.56 MHz.
5. COMPUTER PERIPHERAL: The external photos and the operational description shows a Laptop as auxiliary equipment. Please provide a JBP Part 15.109 filing for the Base Station or a Letter of Attestation from the applicant that DoC testing will be performed.

Reply:

- 1: The details have been separated to show only the Base Station within this submission.
- 2: An amended Confidential Request file is attached with the requested reference to Pursuant to Sections 0.457 & 0.49 of the Commission's Rules
- 3: An amended User Manual is attached
- 4a: The results have been separated to show only the Base Station within this submission.
- 4b: Testing was performed with the lowest, the highest and with a middle range channel, from 30MHz up to 25GHz. Only the highest results were reported in the final report. We have amended Section 4.5 of the report to clarify this.
- 4c: Please refer to Graph number 9. The limit shown is 54dB $\mu$ V/m outside and 94dB $\mu$ V/m within the allocated band. Testing was performed in average mode (above 1GHz). The peak was measured at 71.1dB $\mu$ V/m and the reading outside the carrier was about 35dB $\mu$ V/m (= more than 20dB below the fundamental).
- 4d: Refer to reply 4b and 4c. There were no emissions found above 54dB $\mu$ V/m in the restricted band 2310-2390MHz. Graph 5 and 6 show the worst case emissions for the 1-18GHz frequency range.
- 4e: Refer to reply 4b. There were no emissions found above 54dB $\mu$ V/m in the restricted band 2483.5-2500MHz. Graph 5 and 6 show the worst case emissions for the 1-18GHz frequency range, Graph 11 shows the carrier with surrounding levels..
- 5: We have attached the requested form for the DoC attestation (T101210B\_DoC attestation.doc)

Best regards,

*Ch. Kai*

Christian Kai  
Facility Manager  
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