



Global Product Certification  
EMC-EMF Safety Approvals

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**To:** TIMCO Engineering Inc.

**Attention:** Certification Manager      **No. of pages:** 2

**From:** Donna Lennon      **Date:** 13<sup>th</sup> August 2009

**EMC Ref:** M090663\_Cert\_FM\_SM1XSR

**Subject:** FCC APPROVAL – FCC ID: XKS-SM1XSR

**TIMCO Job #** 1756AU9 – FM Check List

FM transmitters (FCC 15.239)

As you review the application you should be able to answer and provide the following items.

1) How does this device operate?

Answer: The FM transceiver always runs off a Lithium battery with 3.7V nominal voltage. The battery can be recharged with 5VDC via the DC jack. The user can configure the frequency via a user menu (please see user manual for details) in the range 88.1-97.0 MHz. The transmission is purely frequency modulated.

2) Provide information on the device and its antenna.

Answer: The antenna is a wire stub antenna which is built into the plastics of the device. It is placed in a U-shape 50mm above the GND plane.

3) How is it installed?

Answer: The transmitter is inside a portable device that is worn by the user. It is not installed.

4) What test procedure was used?

Answer: ANSI C63.4: 2003

5) If tested in a car, how was it configured/tested?

Answer: It was not tested in an automobile

6) Was the tuning range properly verified? The test lab should indicate in the report that the tuning controls were manually adjusted to verify maximum tuning range.

Answer: It is not possible for the user to tune the device outside the range 88.1-97.0 MHz. Even if the device is tampered with, it is not possible to change the tuning range using circuitry beyond range previously stated.

7) Was the bandwidth properly tested with maximum audio input? The test lab should describe the audio input signal (use a typical audio file from a typical device) – DO NOT use 1kHz tone from signal generator as specified under ETSI EN 301 375-1)

**Answer: Songs were played from the support laptop with maximum audio input.**

8) Provide the test report.

**Answer: Refer to attached Test Report.**

Regards

*Donna Lennon*

**Donna Lennon  
Report Secretary  
EMC Technologies Pty Ltd**