

1. Describe the operation of the device

The EUT was supplied with DC 12V~24V from vehicle's cigarette lighter receptacle or power port.

2. Provide information on the device and its antenna

This device is a FM transmitter operation at 88.3MHz to 107.7MHz.

The EUT uses a permanently connected antenna.

3. How is it installed?

Play MP3 continuously, then place the whole set onto of the testing site for test.

4. Describe the test procedure used

Regarding to the operation frequency, the lowest, middle and highest channel should be selected to perform test. The testing is conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.239. The test process is as below:

The EUT and its simulators are placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meter to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna is set on measurement. In order to find out the maximum emission, all of the interface cables must be manipulated according to ANSI C6.4: 2003 on the radiated measurement.

5. If tested in a car, describe how was it configured and tested

N/A

6. At the present time, FM transmitters (subject to 15.239) tested in vehicles must also be tested on a test table. Provide both sets of data. All data must be compliant.

The EUT was only performed on the test table. All the test data was complied with FCC 15. 239 requirements.

7. 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.

The turning range is properly verified. The channel selection method is manual switch.

8. Was the bandwidth properly tested with maximum audio input?

The bandwidth has properly tested with maximum audio input. The maximum audio input is as the Apply EUT product specification as 800mVp-p.

9. Was a typical audio file used during testing?

We use the typical audio file to perform test. The audio file is mp3 format and its 1 KHz tone. The test doesn't use 1 kHz signal from a signal generator.

10. Provide the test report showing compliance with the rules.

Test Report