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TCB & FCB

FCC Approvals
Industry Canada Approvals
Notified Body for Europe

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APPLICANT: CCA ELECTRONIC FACTORY
FCC ID: SYM-0718A

ALL-KIT FCC Question Response:

1). How does this device operate?

Connect iPod male connector, a 12 Volt DC adapter is plugged into the vehicle's 12 Volt cigarette lighter socket. Then open iPod power and play the MP3 type music signal , the MP3 type music signal through the ALL-KIT transmitted out .

2). Provide information on the device and its antenna.

The EUT is an automobile stereo FM transmitter, designed around a high quality stereo FM transmitter Integrated Circuit. The frequency range is 88.1 MHz to 107.9 MHz with 100KHz channel spacing. 199 Channels are available.

Major technical description of the EUT is described as following:

- A). Operation Frequency: 88.1MHz~107.9MHz
- B). Antenna Design: Internal (etched)
- C). Power Supply: Auto 12.0 VDC battery system.
- D.) ALL-KIT is KT0801 Integrated Circuit.

Antenna requirement: The antenna is etched on the circuit board, and meets the requirements of section 15.203.

3). How is it installed?

The plug-in unit is inserted into the vehicle's 12 Volt cigarette lighter socket. then connect with iPod male connector.

4). What test procedure was used?

a). ANSI 63.4 (2003) Section 13.1.4.1 Radiated Emissions.

b). Radiated Emission test procedure.

- i). The EUT was placed on a turn table which is 0.8m above ground plane.
- ii). Maximum system performance was selected (stated by the Test Lab - and the six highest emissions were examined) to ensure EUT compliance and stated in the Test Report results.
- iii). Emission were maximized by changing the polarization of Test Range receiving antenna both horizontal and vertical polarization. Three orthogonal positions were tested and worse case emissions are reported.
- iv). Repeat of the above procedures were performed until all frequency measurements were complete.

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

Not Applicable.

6). Was the tuning range properly verified?

Our Lab has verified the following: "The actual tuning controls were manually adjusted to from 88.1MHz to 107.9MHz, with total channel spacing of 100KHz. For this device, 199 channels are available and/or selected.

7). Was the bandwidth properly tested with the maximum audio input?

The bandwidth was tested PASSED with maximum audio of iPod device. the volume control of iPod Player was set to maximum during the test, It means that the test was performed with the maximum audio input. And the iPod device play the MP3 type music. The details please View page 21-22 of test report .

8. Does the device operate in a vehicle?

This device can operate in a vehicle, Connect iPod male connector, a 12 Volt DC adapter is plugged into the vehicle's 12 Volt cigarette lighter socket. Then open iPod power and play the MP3 type music signal , and the FM radio can receive the music Signal . and verified this device can work normally, and vehicle other device can Work normally also.