Confirmation letter for FM Transmitter

Applicant: DIGIANA Co., Ltd.
FCC ID: QDNDGT301

We, SK TECH CO., LTD. would like to answer to the following questions for requesting by the TCB.

1. How does the device operate?

- Connect the device to the earphone jack of a portable audio device.
- Press the On/Off button over 1 sec for start.
- Tune the FM transmitting frequency to the empty channel with pressing Up/Down button.
- The audio signals from a typical audio player will be transmitted at the tuned FM frequency.

2. Provide information on the device and its antenna.

Product	FM transmitter(portable)
Transmitting frequency	88.1 MHz ~ 107.9 MHz (100 kHz step)
Power Source	1.5 V AAA battery(× 1) or 12 V battery on a vehicle
Audio input rating	1.0 Vpp
Antenna	Integral(Fixed Stereo Cable, 3.5 φ)

The product uses the antenna as a stereo audio cable and the length of the antenna is extensible from about 0.2 m up to maximum 0.8 m.

3. How is it installed?

Connecting the device to the earphone jack of a portable audio device.
Power source is either 1.5 V alkaline battery or DC 12 V via cigarette adaptor. when using the cigarette adaptor, the power is fed from the cigarette adaptor regardless of the of the 1.5 V battery.

4. What test procedure was used?

ANSI C63.4:2003 was used as the test procedure.
To find the worst radiated emissions, for the three operating frequencies, the length of the EUT antenna was varied from 0.2 m to maximum 0.8 m with the polarization, vertical/horizontal.

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

N/A

6. Was the tuning range properly verified?

YES. To verify the maximum tuning range, the tuning controls were manually adjusted.

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

YES. The occupied bandwidth measurements were made using a typical audio file from a typical MP3 player with maximum volume setting.

8. Does the device operate in a vehicle?

The product can be operated in a vehicle, however it does not be tested in a car because the device is designed to use an integral antenna(stereo cable) that does not affect open-field radiated emission such as a vehicle's wiring.