

Analysis Report
Report No.: 13041841HKG-003

The Equipment Under Test (EUT) is Multi-Charging Station. It can accept analog and Digital audio input sources: 3.5mm phone-jack line-in and wireless Bluetooth device. The EUT support charging function, the total output power of the EUT is 5.0VDC(5.7A). The Bluetooth module in the EUT operates in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing).

Antenna Type: Internal integral (PCB Trace)
Antenna Gain: 0dB
Nominal rated field strength: 93.9dB μ V/m at 3m
Maximum allowed field strength of production tolerance: -/+3 dBm
According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 96.9dB μ V/m at 3m in frequency 2.4GHz, thus;
The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.469\text{mW}$
Conducted power = Radiated Power (EIRP) - Antenna Gain
So;
Conducted Power = 1.469mW.

The SAR Exclusion Threshold Level:
= $3.0 \cdot (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$
= $3.0 \cdot 5 / \text{sqrt}(2.480) \text{ mW}$
= 9.53 mWm

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.