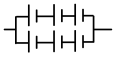
Analysis Report

Report No.: 14040555HKG-004

The WSF01 is an Auto-Feed Portable WiFi Scanner.

For 802.11b mode, it operates at frequency range of 2412MHz to 2462MHz with 11 channels. It transmits via DSSS modulation. Maximum bit rate can be up to 11Mbps. For 802.11g mode, it operates at frequency range of 2412MHz to 2462MHz with 11 channels. It transmits via OFDM modulation. Maximum bit rate can be up to 54Mbps. For 802.11n (with 20MHz bandwidth) mode, it operates at frequency rage of 2412MHz to 2462MHz with 11 channels. It transmits via OFDM modulation. Maximum but rate can support up to 65Mbps.

The EUT is power by 6VDC (6x"AA"size batteries)  .

Antenna Type: Internal integral antenna
Antenna Gain: +2.3dBi
Nominal rated field strength: 97.4dBμV/m at 3m
Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 100.4dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 3.289mW

Conducted power = Radiated Power (EIRP) – Antenna Gain
So;

Conducted Power = 1.937mW.

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.462) mW
= 9.56 mW

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.