Analysis Report

Report No.: 16031022HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Transceiver (Controller Unit) for a RC plane operating at the frequency range of 2407-2477MHz including 26 channels, which are shown as below:

2407	2408	2409	2410	2411	2413	2435	2436	2438	2440
2441	2442	2443	2444	2445	2467	2468	2469	2470	2471
2472	2473	2474	2475	2476	2477				

The EUT is powered by 4 * 1.5V AA batteries. After switch on the EUT and paired with plane, the plane can be controlled to fly forward/ backward and turn left/ right by the controller.

Antenna Type: Internal integral antenna Antenna Gain: 0dBi Nominal rated field strength: 95.8dBµV/m at 3m Maximum allowed field strength of production tolerance: 92.8 dBµV/m – 98.8 dBµV/m

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 98.8dBµV/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 2.276mW

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

Conducted Power = 2.276mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.480) mW = 9.53 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.