## RF Exposure

The equipment under test (EUT) is a R/C Plane operating at 2.4G Band. The EUT can be powered by DC3.0V (2 x 1.5V AAA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
The normal radiated output power (e.i.r.p) is: -8.0dBm (tolerance: +/- 3dB).
The normal conducted output power is -8.0dBm (tolerance: +/- 3dB).
Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 87.4dBμV/m at 3m in the frequency 2442MHz
The EIRP = [(FS*D) ^2 / 30] mW = -7.83dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 85.8dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW = -9.43dBm
which is within the production variation.

The maximum conducted output power specified is -5dBm =0.32mW
The source- based time-averaging conducted output power
=0.32* Duty cycle mW <0.32 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.478) mW
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 15.072ms
Effective period of the cycle = 3043μs
DC =3.043ms / 15.072ms =0.2019 or 20.19%