## RF Exposure

The equipment under test (EUT) is a 1/41 Bluetooth RC + 1/41 Diecast (Mix Carton) (1:41 Bluetooth RC Ferrari 499P) with Bluetooth 5.0 BLE function operating in 2402-2480MHz. The EUT is powered by DC 3.2V (1 x 3.2V rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
Bluetooth Version: 5.0 BLE (Single Mode)
The normal radiated output power (e.i.r.p) is: -3.0dBm (tolerance: +/- 3dB).
The normal conducted output power is -3.0dBm (tolerance: +/- 3dB).
Modulation Type: GFSK.

According to the KDB 447498 D01 V06 section 4.3:

The Maximum peak radiated emission for the EUT is 91.3dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW = -3.93dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 90.3dBμV/m at 3m in the frequency 2480MHz
The EIRP = [(FS*D) ^2 / 30] mW = -4.93dBm
which is within the production variation.

The maximum conducted output power specified is 0dBm= 1.000mW
The source- based time-averaging conducted output power
=1.000mW

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 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.