

# FCC RF Exposure

Product Name: RC car  
 FCC ID: 2BQXM-553-01  
 Model(s): 553-01

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1 - g and 10 - g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1 - g SAR and } \leq 7.5 \text{ for 10 - g extremity SAR,}$$

Where:

$$\text{Result} = P/D \cdot \sqrt{F}$$

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

$$2.4\text{g tx: EIRP(dBm)} = 99.2 \text{ (dBuV/m)} - 95.2 = 4 \text{ (dBm)}$$

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm <sup>2</sup> )	SAR Test Exclusion
2455	4	4 ± 1	5/3.162	5	0.991	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report HK2506253385-E, antenna gain=0dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.991 which is  $\leq 3$ , RF Exposure testing is not required.

Note: Exclusion Thresholds Results =  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance=5mm