

RF exposure Estimation

1. Introduction

Product: 360 wifi Panoramic remote control Model no.: SP8001, SP8000, SWK 360 A1

FCC ID: 2AJ9O-SWK360R

The EUT is 360 wifi Panoramic remote control, which contain 2.4G function inside.

2. Limit and Guidelines on Exposure to Electromagnetic Fields

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 Mobile Portable RF Exposure v05r01, no SAR required if power is lower than the flowing threshold:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

3. Calculation method

[(max. power of` channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$

Conducted Power + tune up tolerance =91.51dBuV/m=-15.49dBm= 0.0282mW Distance = 5 mm f = 2.450 GHz

[0.0282/5] * SQRT (2.450) =0.0088 0.0088≤ 3.0 Therefore, excluded from SAR testing.

- TÜV SÜD Shenzhen LTD. -

Reviewed by:

Prepared By:

Mark chen

Phoebe Hu/EMC Department Manager

Date: 2017-06-23

Mark Chen/EMC Project Engineer

Date: 2017-06-23