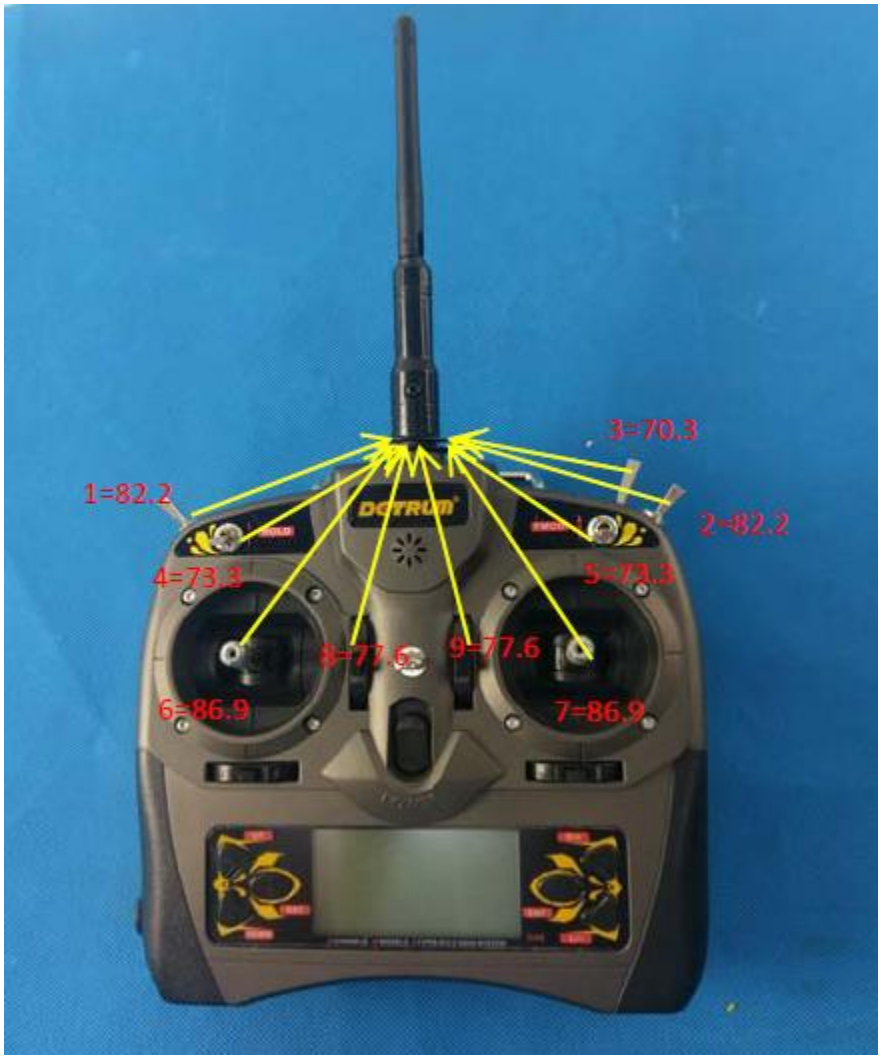
RF Exposure evaluation



Shortest distance between ant and switch is 70.3mm

According to KDB 447498 D01 General RF Exposure Guidance v05

Step 1: 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)] •[√f(GHz)] ≤ 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 calculation
- The result is rounded to one decimal place for comparison

At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
[Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm)•10] mW at > 1500 MHz and ≤ 6 GHz

Worse case is 19.3dBm（85.1mW） @2401MHz
Threshold is {【（7.5/√2.401）x 50】+（70.3-50）x10}=207.8mW
85.1mW<207.8mW
So Extremity SAR test is exclusion