# **RF Exposure Evaluation Report**

## 1 RF EXPOSURE

Product Name: Temperature & Humidity Sensor

Model No.: RSH-HS09

FCC ID: 2A9K2-RSH-HS09

## 2. RF Exposure Evaluation

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093 Radiofrequency radiation exposure evaluation: portable devices.

## 2.1 LIMITS

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:

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

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. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

## 2.2 EUT RF EXPOSURE EVALUATION

Worst Mode:						
Channel (MHz)	Conducted Power	Tune up Tolerance	Maxi tune-up	mum Power	Calculated value	Limit
	(dBm)	(dBm)	(dBm)	(mW)		
2480	-0.59	0±1.0	1.0	1.259	0.397	3.0

Calculated value 0.397 < 3.0, So there is no require SAR test.