

RF exposure

The EUT is a RFID SD card device. The device is intended to be installed and used in cell phone.

The application of device is to read tag info. The device will not transmit or work when screen is off and when phone is in voice mode. and it is designed and intended to read tags info only when holding in hand .

The EUT highest RF conducted power is 25mW , with 5mm separation distance, it meet Extremity SAR exempt threshold as shown in below.

100MHz - 6GHz , Test separation distance ≤ 50 mm		
Max Power of channel (mW)	Min Test separation distance (mm)	Frequency (GHz)
25	5	0.902
Result =	4.749	≤ 3.0 for 1-g , ≤ 7.5 for 10-g SAR

In addition , the maximum transmission duration reading single tag is 10msec , and 350msec for reading multiple tags,. Per KDB 447498 Section 5.3 , the max duration of overlapping transmission of EUT with cell phone will be less than 30 sec. therefore , simultaneously transmission RF exposure evaluation is no needed.