RADIO FREQUENCY EXPOSURE

Product Information

EUT	: Timelapse Trigger
Model Number	: AF-E1
Model Declaration	: N/A
Test Model	: AF-E1
Power Supply	: 1,DC 3.7V by battery 2, USB input: DC5V,0.5A
Hardware version	: 1.0
Software version	: 1.0
Sample ID	. TSCT2105220001–1#, TSCT2105220001–2#,TSCT2105220001–3#
Bluetooth	
Bluetooth Version	: V5.0
Channel Number	: 40 Channels
Modulation Technology	: GFSK
Data Rates	: 1Mbps
Antenna Type And Gain	Internal Antenna /3.0 dBi(Max.)

Note: Antenna position refer to EUT Photos.

Limit

According to section 4.3.1 of KDB 447498 D01 General RF Exposure Guidance v06:

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

a) For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(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 calculation31
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) 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. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

Test Mode	Channel	Frequency (MHz)	Measured Peak Output Power (dBm)
GFSK(1Mbps)	00	2402	-3.14
	19	2440	-2.03
	39	2480	-2.07

Conducted Power Results

Manufacturing tolerance

GFSK (1Mbps Peak)							
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)	-2.5	-2.5	-2.5				
Tolerance ±(dB)	1.0	1.0	1.0				

Results

Test Mode	Channel Frequency (MHz)	Max. Tune Up Power(dBm)	Distance(mm)	Calculate Result	Upper limit
GFSK(1Mbps)	2402	-1.5	5	0.2	3
	2440	-1.5	5	0.2	3
	2480	-1.5	5	0.2	3

the Routine Evaluation Exemption according to section 4.3.1 of KDB 447498 D01.

So, the SAR evaluation is not required.

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