Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1704229FV00-1 FCC ID: 2AICR-SM003

RF EXPOSURE EVALUATION EUT Specification

EUT	Switchmate			
Model Name	TSM003, RSM003, TSM003W, RSM003W, TSM003B, RSM003B			
Frequency band	□WLAN: 2.412GHz ~ 2.462GHz			
(Operating)	□WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz			
	□WLAN: 5.745GHz ~ 5825GHz			
	⊠Others Bluetooth: 2.402~2.480GHz			
Device category	⊠Portable (<20cm separation)			
	☐Mobile (>20cm separation)			
	Others			
Antenna diversity	⊠Single antenna			
	☐Multiple antennas			
	☐Tx diversity			
	☐Rx diversity			
	☐Tx/Rx diversity			
Max. output power	-1.44dBm (0.72mW)			
Antenna gain	1.43dBi			
Evaluation applied	☐MPE Evaluation			
	SAR Evaluation			

Standard Requirement

Portable Device

According to §15.247(i) and §1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1.

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)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-q SAR and ≤ 7.5 for 10-q extremity SAR, ¹⁶ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- 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.

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Measurement Result

Channel	Max Output	Max Output	Calculation	Threshold
Frequency	power (dBm)	power (mW)	Value (Note 1)	Value
(MHz)				
2402	-1.44	0.72	0.223	3.0
2440	-2.55	0.56	0.175	3.0
2480	-4.27	0.37	0.117	3.0

Note 1: Calculation Value =[(max. power of channel, mW)/(min.

test separation distance, mm)] • [$\sqrt{f(GHz)}$]. Fox example: 0.72/5* $\sqrt{2.402}$ =0.223 ≤ 3.0

According to KDB447498 D01 V05, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.

The SAR measurement is not necessary.