RF EXPOSURE EVALUATION

EUT Specification

EUT	Pro Fit Bluetooth Mobile Mouse				
Frequency band	UWLAN: 2.412GHz ~ 2.462GHz				
(Operating)	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz				
	WLAN: 5.745GHz ~ 5825GHz				
	⊠Others(Bluetooth: 2.402GHz ~ 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	-1.55dBm(0.70mW)				
Antenna gain	-1.9dBi				
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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f}(GHz)] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where $\cdot f(GHz)$ 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.

Measurement Result

Channel	Channel Frequency (MHz)	Max Output power (dBm)	Max Output power (mW)	Calculati on Value (Note 1)	Threshold Value	
GFSK						
Low	2402	-2.69	0.54	0.1668	3.0	
Middle	2441	-2.11	0.62	0.1922	3.0	
High	2480	-1.55	0.70	0.2204	3.0	

Note 1: Calculation Value =[(max. power of channel, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$. Fox example: 0.70/5* $\sqrt{2.480}$ =0.2204 ≤ 3.0

According to KDB447498 D01 V06, threshold at which no SAR required is \leq 3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.