

CERPASS TECHNOLOGY CORP.

12. Radio Frequency Exposure

12.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1093)

LIMIT

KDB 447498 D01 § 4.3(a)

For 100 MHz to 6 GHz and test separation distances ≤ 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)] $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR, and ≤ 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 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 ≤ 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

12.2 EUT Specification

Frequency band	□ 2.4GHz: 2402MHz ~ 2480MHz				
(Operating)	Bluetooth: 2402MHz ~ 2480MHz				
(Operating)	☐ Portable (<20cm separation)				
Device category	i = '				
_	Mobile (>20cm separation)				
Exposure	Occupational/Controlled exposure				
classification	☐ ☐ General Population/Uncontrolled exposure				
Antenna diversity	Single antenna				
	Multiple antennas				
	Tx diversity				
	Rx diversity				
	Tx/Rx diversity				
	MPE Evaluation*				
Evaluation applied	SAR Evaluation				
	│ □ N/A				
Remark:					
1. The maximum output power is <u>-1.79 dBm (0.662 mW) at 2402MHz (with 3.73 dBi antenna</u>					
gain.)					
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the					
compliance.					
3. For mobile or fixed location transmitters, no SAR consideration applied.					

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12.3 Test Results

According to the KDB447498:

The SAR test exclusion thresholds Level:

[(max. power of channel, including tune-up tolerance, mW) /(min. test separation distance, mm)] * sqrt (freq. in GHz) < 3

Calculation

Channel Frequency	Max. Conducted output power	Max. Tune up	Max.		SAR test
			Tune up	Distance	exclusion
			power	(mm)	thresholds
(MHz)	(dBm)	(dBm)	(mW)		(mW)
2402-2480	-1.79	-1.29	0.74	5	10.00

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing

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