

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	<u>⊠</u> 2.4G: 2402MHz ~ 2480MHz						
(Operating)	☐ Bluetooth: 2402MHz ~ 2480MHz						
Device category	□ Portable (<20cm separation)						
Device dategory	☐ Mobile (>20cm separation)						
Exposure	posure						
classification	☐ General Population/Uncontrolled exposure						
	Single antenna						
Antenna diversity	☐ Multiple antennas						
	☐ Tx diversity						
	Rx diversity						
	☐ Tx/Rx diversity						
	MPE Evaluation*						
Evaluation applied	SAR Evaluation						
	⊠ N/A						
Remark:							
4 The section 1	1						
1. The maximum output power is <u>4.20 dBm (2.630mW) at 2402MHz (with 0.48 dBi antenna</u>							
<u>gain.)</u>							
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the							
compliance.							
B. For mobile or fixed location transmitters, no SAR consideration applied.							

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T-FD-508-0 Ver 1.5 Page No. FCC ID : ZHK-HS25

Issued date : Jan. 27, 2022 : 53 of 54



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 (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	4.20	4.70	2.95	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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Issued date : Jan. 27, 2022
Page No. : 54 of 54
FCC ID : ZHK-HS25