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)

Report No.: TEFQ2011022-268

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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 \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

12.2 EUT Specification

Frequency band	L WLAN: 2412MHz ~ 2462MHz					
(Operating)						
Davisa satamani	□ Portable (<20cm separation)					
Device category	☐ 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>-0.88 dBm (0.82mW)</u> at <u>2402MHz</u> (with <u>1.005 dBi</u>						
antenna 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.						

Cerpass Technology Corp.

T-FD-506-0 Ver 1.4 Page No. : 43 of 44 FCC ID. : ZHK-M00030

Issued Date :

Dec. 24, 2020

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	-0.88	1.12	1.29	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

-----THE END OF REPORT-----

Cerpass Technology Corp. T-FD-506-0 Ver 1.4 Issued Date : Dec. 24, 2020
Page No. : 44 of 44
FCC ID. : ZHK-M00030

Report No.: TEFQ2011022-268