12. Radio Frequency Exposure

12.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in

Report No.: TEFI1904074-976

FCC Part 2 (Section 2.1093)

KDB 447498

IEEE C95.1

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 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 | SRD: 2400MHz ~ 2483.5MHz | | | | | |
|--|--|--|--|--|--|--|
| (Operating) | Bluetooth: 2402MHz ~ 2480MHz | | | | | |
| 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 SAR | | | | | |
| | □ N/A | | | | | |
| | | | | | | |
| Remark: | | | | | | |
| 1. The maximum conducted output power is 5.45dBm (3.508mW) at 2437MHz (with | | | | | | |
| 1. The maximum conducted output power is <u>5.45dBm (3.508mW)</u> at <u>2437MHz</u> (with <u>4.08dBi antenna gain.</u>) | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | |
| 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 1.0 Page No. : 37 of 38 FCC ID. : ZHK-HS00021TX

Issued Date :

May. 16, 2019

^{*}The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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

| Modulation Mode | Frequency band (MHz) | Max. Conducted output power (dBm) | Max. Conducted output power(mW) | Distance (mm) | SAR test exclusion thresholds (mW) |
|--------------------|-------------------------|-----------------------------------|---------------------------------|------------------|---|
| π/4-DQPSK | 2403.35-2477.35 | 5.45 | 3.508 | 50 | 96.0000 |

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

Cerpass Technology Corp. T-FD-506-0 Ver 1.0 Issued Date : May. 16, 2019

Report No.: TEFI1904074-976

Page No. : 38 of 38

FCC ID. : ZHK-HS00021TX