13. Radio Frequency Exposure

13.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1093) KDB 447498 IEEE C95.1

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LIMIT

| KDB 447498 D01 § 4.3(a) For 100 MHz to 6 GHz and test separation distances \leq 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)] $\cdot [\sqrt{f(GHz)}] \leq 3.0$ for 1-g SAR, and \leq 7.5 for 10-g extremity SAR, where \square | |
|--|--|
| *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

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13.2 EUT Specification

| Frequency band | ☐ WLAN: 2412MHz ~ 2462MHz |
|---------------------------|--|
| (Operating) | ⊠ Bluetooth: 2402MHz ~ 2480MHz |
| Modulation | GFSK (1Mbps) |
| Device category | □ Portable (<20cm separation) |
| Device category | ☐ Mobile (>20cm separation) |
| Exposure | Occupational/Controlled exposure |
| classification | □ General Population/Uncontrolled exposure |
| Antenna diversity | Single antenna |
| | |
| | ☐ Tx diversity |
| | ☐ Rx diversity |
| | ☐ Tx/Rx diversity |
| | |
| Evaluation applied | SAR Evaluation SAR |
| | □ N/A |
| Remark: | |
| 1. The maximum out | out power is <u>-2.31 dBm (0.587mW)</u> at <u>2402MHz</u> (with <u>numeric 2.78</u> |
| <u>antenna gain</u> .) | · — · · · · · · · · · · · · · · · · · · |
| 2. DTS device is not s | subject to routine RF evaluation; MPE estimate is used to justify the |
| compliance. | |
| 3 For mobile or fixed | location transmitters, no SAR consideration applied. |

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) |
|--------------------|-------------------------|-----------------------------------|---------------------------------|------------------|---|
| GFSK | 2402-2480 | -2.31 | 0.59 | 5 | 10.0000 |

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

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