## 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)

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#### **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  $\le 7.5$  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					
(Operating)	□ BLE: 2402MHz ~ 2480MHz				
Device category	□ Portable (<20cm separation)				
	☐ Mobile (>20cm separation)				
Exposure	Occupational/Controlled exposure				
classification	☐ General Population/Uncontrolled exposure				
	Single antenna				
Antenna diversity	☐ Multiple antennas				
	☐ Tx diversity				
	Rx diversity				
	☐ Tx/Rx diversity				
	☐ MPE Evaluation*				
Evaluation applied	$\overline{\boxtimes}$ SAR Evaluation				
	□ N/A				
Remark:					
1. The maximum out	out power is <u>0.69 dBm (1.172mW)</u> at <u>2480MHz</u> (with <u>3.27 dBi</u>				
antenna gain.)	out portor to oto dom (1.112mm) at 2 toolwitz (with oter dor				
<ol> <li>DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the</li> </ol>					
compliance.	,				
2. For mobile or fixed leastion transmitters, no SAD consideration applied					

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# **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	0.69	2.69	1.86	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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