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 2.1091)

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12.2 EUT Specification

Frequency band	☐ WLAN: 2412MHz ~ 2462MHz					
(Operating) Bluetooth: 2402MHz ~ 2480MHz						
Device category	☐ Portable (<20cm separation)					
Device category						
Exposure	Occupational/Controlled exposure					
classification	☐ General Population/Uncontrolled exposure					
	Single antenna					
	☐ Multiple antennas					
Antenna diversity	☐ Tx diversity					
•	☐ Rx diversity					
	☐ Tx/Rx diversity					
Evaluation applied	SAR Evaluation					
•	□ N/A					
Remark:						
1. The maximum cond	ducted output power is <u>6.86dBm (4.853mW)</u> at <u>2402MHz</u> (with <u>2.00dBi</u>					
antenna gain.)	10000 00400 powor 10 <u>0.0005m (1.000mm)</u> 00 <u>2.0005m</u> (1000 powor 10 <u>0.0005m (1.000mm)</u>					
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the						
compliance.	abject to reduite rate evaluation, will be estimate to dood to justify the					
•	location transmitters, no SAR consideration applied. The maximum					
power density is 1.0 mW/cm ² even if the calculation indicates that the power density						
would be larger.	This word event if the calculation indicates that the power density					
would be larger.						

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12.3 Test Results

No non-compliance noted.

12.4 Calculation

Given
$$E = \frac{\sqrt{30 \times P \times G}}{d}$$
 & $S = \frac{E^2}{3770}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and $d(cm) = d(m) / 100$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

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12.5 Maximum Permissible Exposure

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
2402-2480	6.86	7.36	2	20	0.002	1

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

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