11. Radio Frequency Exposure

11.1 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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KDB 447498 IEEE C95.1:2005

11.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz						
	☐ WLAN: 5150MHz ~ 5250MHz						
Frequency band	☐ WLAN: 5250MHz ~ 5350MHz						
(Operating)	☐ WLAN: 5470MHz ~ 5725MHz						
	WLAN: 5725MHz ~ 5850MHz						
	Bluetooth: 2402MHz ~ 2480MHz						
Davies astemany	□ Portable (<20cm separation)						
Device category	Mobile (>20cm separation)						
F	Occupational/Controlled exposure (S = 5mW/cm²)						
Exposure	☐ General Population/Uncontrolled exposure						
classification	(S=1mW/cm ²)						
	Single antenna						
	☐ Multiple antennas						
Antenna diversity	☐ Tx diversity						
	☐ Rx diversity						
	☐ Tx/Rx diversity						
Evaluation applied	SAR Evaluation						
	□ N/A						
Remark:							
4 The meaning was a stra	ust manuage in 2 44 d Phys. (0 400 ms M/) at 2 400 M I I (writing manuage in 0 F						
-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	antenna gain.)						
	subject to routine RF evaluation; MPE estimate is used to justify the						
compliance.	location transmitters as CAD consideration applied. The receivers						
 For mobile or fixed location transmitters, no SAR consideration applied. The maxis power density is 1.0 mW/cm² even if the calculation indicates that the power de would be larger. 							

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11.3 Test Results

No non-compliance noted.

11.4 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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11.5 Maximum Permissible Exposure

Max. output power	GFSK: -3.11 dBm (0.489mW)
Antenna gain (Max)	1.96dBi

Modulation Mode	Frequency band (MHz)	Max. Conducted output power(dBm)	Antenna Gain(dBi)	Distance (cm)	SAR test exclusion thresholds (mW)	Pass/Fail
GFSK	2402-2480	-3.11	0.5	0.5	10.0000	PASS

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