



## 14. Radio Frequency Exposure

### 14.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1091)

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

### 14.2 EUT Specification

<b>Frequency band (Operating)</b>	<input type="checkbox"/> WLAN: 2412MHz ~ 2462MHz <input type="checkbox"/> WLAN: 5150MHz ~ 5250MHz <input type="checkbox"/> WLAN: 5250MHz ~ 5350MHz <input type="checkbox"/> WLAN: 5470MHz ~ 5725MHz <input type="checkbox"/> WLAN: 5725MHz ~ 5850MHz <input checked="" type="checkbox"/> Bluetooth: 2402MHz ~ 2480MHz
<b>Device category</b>	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation)
<b>Antenna diversity</b>	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
<b>Evaluation applied</b>	<input type="checkbox"/> Blanket 1 mW Blanket Exemption <input checked="" type="checkbox"/> MPE-based Exemption <input type="checkbox"/> SAR-based Exemption
<b>Remark:</b>	
The maximum conducted output power is <u>14.84dBm (30.479 mW)</u> at <u>2402MHz</u> (with <u>2.55dBi</u> antenna gain.)	

### 14.3 Result

Modulation Mode	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max. Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
GFSK	2402	14.84	15.34	2.55	15.87	38.64	3060

No non-compliance noted.



**Maximum Permissible Exposure (Co-location)**

Non-Beamforming(BT+2.4G)

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Max. Tune up e.r.p power (mW)	Limit (mW)	MPE Ratio	
GFSK	2402	14.84	15.34	2.55	20	38.64	3060	0.013	
11g	2437	24.87	25.37	3.96	20	521.89	3060	0.171	
Co-location Total									0.184
Σ MPE ratios Limit									1

Beamforming(BT+2.4G)

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Max. Tune up e.r.p power (mW)	Limit (mW)	MPE Ratio	
GFSK	2402	14.84	15.34	2.55	20	38.64	3060	0.013	
11ax HE40	2422	20.95	21.45	6.75	20	402.40	3060	0.132	
Co-location Total									0.145
Σ MPE ratios Limit									1

Non-Beamforming(BT+5G)

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Max. Tune up e.r.p power (mW)	Limit (mW)	MPE Ratio	
GFSK	2402	14.84	15.34	2.55	20	38.64	3060	0.013	
11ax40	5230	24.75	25.25	4.76	20	610.94	3060	0.200	
Co-location Total									0.213
Σ MPE ratios Limit									1

Beamforming (BT+5G)

Modulation Type	Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Max. Tune up e.r.p power (mW)	Limit (mW)	MPE Ratio	
GFSK	2402	14.84	15.34	2.55	20	38.64	3060	0.013	
11ax40	5230	19.89	20.39	7.58	20	381.94	3060	0.125	
Co-location Total									0.138
Σ MPE ratios Limit									1

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