# 12. Radio Frequency Exposure

# 12.1 Applicable Standards

	The available maximum time-averaged power is no more than 1 mW,								
§1.1307(b)(3)(i)(A)	regardless of separation distance.								
\[ \tag{\sqrt{1.1307(b)(3)(i)(c)}}	ERP is below a threshold calculated based on the distance , R between the personantenna / radiating structure, where R > $\lambda$ /2 $\pi$ .  TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION  RF Source							erson and	
∑ § 1.1307(b)(3)(i)(B).	Device operates I power or effective where	e radiate	d po	wer (ER $nw) = \begin{cases} E \\ E \end{cases}$ $x = -16$ $ERP_{20}$	P), whicher $RP_{20 cm}(d/2RP_{20 cm})$	0 204 (204 (306	is greater  20 cm  and fisin  0 f 0.3 GH  0 1.5 GH	$f, <= Pth$ $f, <= Pth$ $f, <= Pth$ $f, <= Pth$ $f, <= d \le 40 cm$	ed

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### 12.2 EUT Specification

Frequency band (Operating)	<ul> <li>◯ WLAN: 2412MHz ~ 2462MHz</li> <li>◯ WLAN: 5150MHz ~ 5250MHz</li> <li>◯ WLAN: 5250MHz ~ 5350MHz</li> <li>◯ WLAN: 5470MHz ~ 5725MHz</li> <li>◯ WLAN: 5725MHz ~ 5850MHz</li> <li>◯ Bluetooth: 2402MHz ~ 2480MHz</li> </ul>					
Device category	<ul><li>☐ Portable (&lt;20cm separation)</li><li>☑ Mobile (&gt;20cm separation)</li></ul>					
Antenna diversity	<ul> <li>☐ Single antenna</li> <li>☐ Multiple antennas</li> <li>☐ Tx diversity</li> <li>☐ Rx diversity</li> <li>☐ Tx/Rx diversity</li> </ul>					
Evaluation applied	<ul><li>☐ Blanket 1 mW Blanket Exemption</li><li>☐ MPE-based Exemption</li><li>☐ SAR-based Exemption</li></ul>					
Remark:						
The maximum conducted output power is 20.40dBm (109.550mW) at 2452MHz (with 3dBi antenna gain.) For 24010270-TRFCC03						
The maximum conducte antenna gain.) For 802.	ed output power is 20.04dBm (101.039mW) at 2437MHz (with 3dBi 11ax add test					

#### 12.3 Result

### For 24010270-TRFCC03

Channel Frequency (MHz)	Max. Conducted Max. Tune up output power power (dBm) (dBm)		Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
2422-2452	20.40	20.90	3	21.75	149.49	3060

No non-compliance noted.

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

BT+2.4G (For 24010270-TRFCC03)

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
8DPSK	2402-2480	8.68	9.18	3	20	10.069	3060.00	0.003
11n HT40	2422-2452	20.40	20.90	3	20	149.490	3060.00	0.049
Co-location Total								
$\Sigma$ MPE ratios Limit								

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