



13. Radio Frequency Exposure

13.1. Applicable Standards

<input type="checkbox"/>	§1.1307(b)(3)(i)(A)	The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.																																															
<input checked="" type="checkbox"/>	§1.1307(b)(3)(i)(c)	ERP is below a threshold calculated based on the distance , R between the person and the antenna / radiating structure, where $R > \lambda / 2\pi$.																																															
		<p style="text-align: center;">TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">RF Source Frequency</th> <th colspan="2">Minimum Distance</th> <th colspan="2">Threshold ERP</th> </tr> <tr> <th>f_L MHz</th> <th>f_H MHz</th> <th>$\lambda_L / 2\pi$</th> <th>$\lambda_H / 2\pi$</th> <th colspan="2">W</th> </tr> </thead> <tbody> <tr> <td>0.3</td> <td>—</td> <td>1.34</td> <td>159 m</td> <td>—</td> <td>35.6 m</td> </tr> <tr> <td>1.34</td> <td>—</td> <td>30</td> <td>35.6 m</td> <td>—</td> <td>1.6 m</td> </tr> <tr> <td>30</td> <td>—</td> <td>300</td> <td>1.6 m</td> <td>—</td> <td>159 mm</td> </tr> <tr> <td>300</td> <td>—</td> <td>1,500</td> <td>159 mm</td> <td>—</td> <td>3.83 R^2</td> </tr> <tr> <td>1,500</td> <td>—</td> <td>100,000</td> <td>31.8 mm</td> <td>—</td> <td>0.0128 $R^2 f$</td> </tr> </tbody> </table> <p>Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.</p>						RF Source Frequency		Minimum Distance		Threshold ERP		f_L MHz	f_H MHz	$\lambda_L / 2\pi$	$\lambda_H / 2\pi$	W		0.3	—	1.34	159 m	—	35.6 m	1.34	—	30	35.6 m	—	1.6 m	30	—	300	1.6 m	—	159 mm	300	—	1,500	159 mm	—	3.83 R^2	1,500	—	100,000	31.8 mm	—	0.0128 $R^2 f$
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13.2.EUT Specification

Frequency band (Operating)	<input checked="" type="checkbox"/> WLAN: 5925MHz~6425MHz <input checked="" type="checkbox"/> WLAN: 6425MHz~6525MHz <input checked="" type="checkbox"/> WLAN: 6525MHz~6875MHz <input checked="" type="checkbox"/> WLAN: 6875MHz~7125MHz
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation)
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Evaluation applied	<input type="checkbox"/> Blanket 1 mW Blanket Exemption <input checked="" type="checkbox"/> MPE-based Exemption <input type="checkbox"/> SAR-based Exemption
Remark:	
<ol style="list-style-type: none"> 1. The maximum conducted output power is <u>18.80 dBm (75.887mW)</u> at <u>6985MHz</u> (with <u>4.50dBi antenna gain.</u>) From Non BeamForming 2. The maximum conducted output power is <u>16.14 dBm (41.153 mW)</u> at <u>6185MHz</u> (with <u>7.51dBi antenna gain.</u>) From BeamForming 	

13.3.Result

Non BeamForming

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max. Tune up EIRP (dBm)	Max. Tune up ERP (dBm)	Distance (cm)	$\lambda/2\pi$ (m)	Max. Tune up ERP (W)	ERP Threshold (W)
6985	18.80	19.30	4.00	23.30	21.15	20	0.0068	0.043	1

No non-compliance noted.

BeamForming

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max. Tune up EIRP (dBm)	Max. Tune up ERP (dBm)	Distance (cm)	$\lambda/2\pi$ (cm)	Max. Tune up ERP (W)	ERP Threshold (W)
6185	16.14	16.64	7.31	23.95	21.80	20	0.77	0.151	0.768

No non-compliance noted.

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