

5.9. RF Exposure

5.9.1 Limit

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

5.9.2 EUT Specification

Frequency Range		Center frequency (MHz)	60/f SAR Limitation (mw)
Low Frequency (MHz)	High Frequency (MHz)		
5745	5825	5785	10.372

Maximum measured transmitter power: 802.11a

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
5.39	1.0	4.355

Maximum measured transmitter power: 802.11 HT20 Mode- port 1

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
5.96	1.0	4.966

Maximum measured transmitter power: 802.11 HT40 Mode- port 1

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
5.82	1.0	4.808

Maximum measured transmitter power: 802.11 HT20 Mode- port 2

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
5.93	1.0	4.932

Maximum measured transmitter power: 802.11 HT40 Mode- port 2

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
5.99	1.0	5.000

Maximum measured transmitter power: 802.11n mode (20MHz) All Ports

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
8.955	1.0	9.897

Maximum measured transmitter power: 802.11n mode (40MHz) All Ports

Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
8.916	1.0	9.808

5.9.3 Test Results

Threshold at which no SAR required is 10.372 mw.

Maximum Tx Output power is 9.897mw EIRP.

Conclusion: No SAR is required.