

7. RF Exposure

7.1 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.

7.2 EUT Specification

Frequency Range		Center frequency (MHz)	60/f SAR Limitation (mw)
Low Frequency (MHz)	High Frequency (MHz)		
2402	2480	2441	24.58

Maximum measured transmitter power: GFSK mode

Channel	Frequency (MHz)	Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
Low	2402	-0.76	1.84	1.282
Mid	2441	-0.18	1.84	1.466
High	2480	-0.32	1.84	1.419

Maximum measured transmitter power: $\pi/4$ -QPSK mode

Channel	Frequency (MHz)	Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
Low	2402	-0.36	1.84	1.406
Mid	2441	0.49	1.84	1.710
High	2480	0.09	1.84	1.560

Maximum measured transmitter power: 8DPSK mode

Channel	Frequency (MHz)	Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)
Low	2402	-0.22	1.84	1.452
Mid	2441	0.93	1.84	1.892
High	2480	0.29	1.84	1.633

7.3 Test Results

Threshold at which no SAR required is 24.58 mw.

Conclusion: No SAR is required.