

RF Exposure Compliance for Simultaneous Operations

Configurations for Simultaneous Operations

Configuration 1: WiFi 2.4GHz + Bluetooth

Configuration 2: WiFi 5GHz + Bluetooth

Power Density is calculated from Maximum Conducted Power and Antenna Gain at prediction distance

RF Function	WiFi 2.4GHz	WiFi 5GHz	BT	Σ of MPE ratios	
Frequency (MHz)	2440	5500	2402		
Conducted Output Power (dBm)	21.50	12.10	5.80		
Tune Up Tolerance (dB)	0.00	0.00	0.00		
Output Power incl. Tune Up Tolerance (W)	0.141	0.016	0.004		
Antenna Gain (dBi)	0.00	0.00	0.00		
Antenna Gain (Numeric)	1.00	1.00	1.00		
Prediction Distance (cm)	20	20	20		
Time Averaged Duty Cycle (%)	100	100	100		
Calculated Power Density (W/m2)	0.281	0.032	0.008		
Requirement (W/m2)	10.000	10.000	10.000		
MPE ratio (Power Density/Requirement)	0.028	0.003	0.001		
Configuration 1 (MPE Ratio)	0.028		0.001		0.029
Configuration 2 (MPE Ratio)		0.003	0.001		0.004

Requirement: Σ of MPE ratios ≤ 1