

FCC ID: 2AXB9-OSPR5

FCC 1.1310 General Population/Uncontrolled Exposure

	Frequency (F)	Power (P)	Duty Cycle (D)	Antenna Gain (G) ⁶	EIRP ¹	EIRP	Distance (R)	Power Density ² (PD)	Limit ³	Margin	PD/Limit
	MHz	dBm	dB	dBi	dBm	mW	cm	mW/m ²	mW/cm ²	dB	
LTE	699	24.0	0.00	6	30.0	1000.0	35	0.06496	0.466	8.6	0.1394
2.4 GHz	2442	26.0	0.00	8	34.0	2512	35	0.163	1.628	10.0	0.100
5 GHz	5220	26.0	0.00	10	36.0	3981	35	0.2586	1.00	5.9	0.2586
										Total	0.4982
										Limit	1.0000
										Margin	0.5018

ISED: 26409-OSPR5

CANADA RSS-102, Issue 5 General Population/Uncontrolled Exposure

	Frequency (F)	Power (P)	Duty Cycle (D)	Antenna Gain (G) ⁶	EIRP ¹	EIRP	Distance (R)	Power Density ² (PD)	Limit ⁴	Margin	PD/Limit	Exemption Limit ⁵
	MHz	dBm	dB	dBi	dBm	W	m	W/m ²	W/m ²	dB		W
LTE	699	24.0	0.00	6	30.0	1.0000	0.35	0.6496	2.30	5.49	0.2822	1.15
2.4 GHz	2442	26.0	0.00	8	34.0	2.51	0.35	1.63	5.412	5.2	0.302	2.71
5 GHz	5745	26.0	0.00	8	34.0	2.512	0.35	1.632	9.71	7.7	0.168	4.86
										Total	0.7518	
										Limit	1.000	
										Margin	0.2482	

¹EIRP = P + D + G

²Power Density = EIRP/(4πr²); Health Canada Technical Guide - Safety Code 6_2015, Eq 5-6 at 5.2; OET Bulletin 65, Edition 97-01, August 1997, Eq (4)

³FCC 1.1310 Table 1; Limit = F/1500 (300 ≤ F ≤ 1,500); Limit = 1 (1,500 MHz ≤ F ≤ 100,000 MHz)

⁴RSS-102 Issue 5 Table 4; Limit = 0.02619 × F^{0.6834} (300 MHz ≤ F ≤ 6,000 MHz)

⁵RSS-102 Issue 5 at 2.5.2; Exemption Limit = 1.31 × 10⁻² × F^{0.6834} (300 MHz ≤ F < 6 GHz)

⁶Combined output power and MIMO accounted for in 2.4 and 5 GHz calculations. LTE operates in diversity mode. No 2 × 2 MIMO accounted for this mode of operation