

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:
Passed

Test standard : FCC KDB Publication 447498 D01
 RSS-102 issue 5, Table 4

Separation distance is more than 20 cm, thus mobile device exposure limits can be applied

Maximum Exposure:

Power to Antenna (mW)	0.108 mW
Power to Antenna (dBm)	-9.7 dBm
Antenna Gain	14 dBi
Power+Ant Gain	2.7 mW
Distance	20 cm
S=	0.001 mW/cm ²

This device is operated typically outdoors and facing vehicle traffic lanes. The operating band is 24000-24250MHz. Power is determined from the measured field strength.

Limit FCC: 1 mW/cm²

Limit Canada: 0.16 mW/cm²

FCC:

0.3-1.34 MHz	(100) mW/cm ²
1.34-30 MHz	(180/f ²) mW/cm ²
30-300 MHz	0.2 mW/cm ²
300-1500 MHz f/1500	mW/cm ²
1500-100,000 MHz	1.0 mW/cm²

Canada:

10-20 MHz	0.2 mW/cm ²
20-48 MHz	(0.8944/f ^{0.5}) mW/cm ²
48-300 MHz	0.129 mW/cm ²
300-6000 MHz (0.002619*f ^{0.6834})	mW/cm ²
6000-15000MHz	1.0 mW/cm ²
15000-150000MHz	1.0 mW/cm²
150000-300000MHz	6.67*10 ⁻⁵ f