

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)	18.66 mW
Power to Antenna (dBm)	12.7 dBm
Antenna Gain	18 dBi
Power+Ant Gain	1177.4 mW
Distance	20 cm
S=	0.234 mW/cm ²

Limit FCC: 1.0 mW/cm²

Limit Canada: 1.0 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/cm ²

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
6-15 GHz	1.0 mW/cm ²
15-150 GHz	1.0 mW/cm ²