

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range | Electric Field | Magnetic Field | Power Density | Averaging Time |
|---|----------------|----------------|------------------------|----------------|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm ²) | (minute) |
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

f = frequency in MHz

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^{* =} Plane-wave equipment power density



ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field (V/m rms) | Magnetic Field Strength (A/m rms) | Power Density (W/m²) | Reference Period (minutes) |
|-----------------------------|-------------------------------|---|-------------------------|----------------------------|
| 0.003-10 | 83 | 90 | - | Instantaneous* |
| 0.1-10 | - | 0.73/ f | - | 6** |
| 1.1-10 | 87/ f ^{0.5} | - | 1 | 6** |
| 10-20 | 27.46 | 0.0728 | 2 | 6 |
| 20-48 | 58.07/ f ^{0.25} | 0.1540/ f ^{0.25} | 8.944/ f ^{0.5} | 6 |
| 48-300 | 22.06 | 0.05852 | 1.291 | 6 |
| 300-6000 | 3.142 f ^{0.3417} | $0.008335 f^{0.3417}$ | $0.02619f^{0.6834}$ | 6 |
| 6000-15000 | 61.4 | 0.163 | 10 | 6 |
| 15000-150000 | 61.4 | 0.163 | 10 | 616000/ f ^{1.2} |
| 150000-300000 | 0.158 <i>f</i> ^{0.5} | 4.21 x 10-4 f ^{0.5} | 6.67 x 10-5 <i>f</i> | 616000/ f ^{1.2} |

F = frequency in MHz

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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^{* =} Based on nerve stimulation (NS).

^{** =} Based on specific absorption rate (SAR)



Power Density Calculation (Worst Case)

| FCC | | | | | | | |
|-------------------|----------------------------------|-------------------------------|----------------------------------|---------------------------------|------------------------------|-------------------|----------------|
| Operation Mode | Evaluation Frequency (MHz) | Operation Distance (cm) | Output Power EIRP (dBm) | Output Power EIRP (mW) | Power Density (mW/cm2) | Limit (mW/cm2) | Pass / Fail |
| LTE B2 | 1880.00 | 20 | 24.30 | 269.15 | 0.043 | 1.000 | Pass |
| LTE B4 | 1747.50 | 20 | 24.50 | 281.84 | 0.047 | 1.000 | Pass |
| LTE B12 | 714.50 | 20 | 19.41 | 87.30 | 0.035 | 1.000 | Pass |

| ISED | | | |
|-----------------------------|------------------|----------------|--|
| Power Density (W/cm2) | Limit (W/cm2) | Pass / Fail | |
| 0.426 | 4.526 | Pass | |
| 0.467 | 4.305 | Pass | |
| 0.345 | 2.336 | Pass | |

Note: WWAN and WLAN may not transmit simultaneously, and Bluetooth and WLAN Aux share the same antenna path, however BT and WLAN ransmitter can't be operating at the same time. Collocated/coexisted MPE is exclude for MPE evaluation.

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