

FCC ID: KWC-TVLINKII IC: 2262A-TVLINKII

15. Maximum Permissible Exposure (MPE) Evaluation

15.1. 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 §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) | |
|---|----------------------------------|----------------------------------|-------------------------------------|-------------------------|--|
| Limits for General Population/Uncontrolled Exposure | | | | | |
| Entities for General 1 optimion/encontrolled 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 | |
| 1500-100.000 | / | / | 1.0 | 30 | |

F = frequency in MHz

= Plane-wave equipment power density

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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15.2. Maximum Permissible Exposure (MPE) Evaluation

| Frequency (MHz) | Peak Power Output (dBm) | Required Limit |
|-----------------|-------------------------|-----------------|
| 2402 | 15.28 | 1 Watt = 30 dBm |
| 2441 | 14.95 | 1 Watt = 30 dBm |
| 2480 | 14.41 | 1 Watt = 30 dBm |

^{*}Note: Measured by power meter, cable loss as 11.5dB that offsets on the power meter.

MPE Prediction

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4 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

| Maximum peak output power at antenna input terminal: | 15.28 | (dBm) |
|--|-------------|-----------|
| Maximum peak output power at antenna input terminal: | 33.72873087 | (mW) |
| Duty cycle: | 99 | (%) |
| Maximum Pav : | 33.39144356 | (mW) |
| Antenna gain (typical): | 2.5 | (dBi) |
| Maximum antenna gain: | 1.77827941 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 2402 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm2) |
| Power density at predication frequency at 20 (cm) | 0.011819 | (mW/cm^2) |

Measurement Result

The predicted power density level at 20 cm is 0.011819mW/cm². This is below the uncontrolled exposure limit of 1mW/cm² at 2402MHz.

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