FCC ID: U7I-BP3NF1-2B

Report No.: ER/2014/A0040 Issue Date: Oct. 13, 2014

1. Maximum Permissible Exposure (MPE) Evaluation

1.1. 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)		
(IVII IZ)			`	(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		
1500-100.000	/	/	1.0	30		

F = frequency in MHz

= Plane-wave equipment power density



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1.2. Maximum Permissible Exposure (MPE) Evaluation

Frequency (MHz)	Peak Power Output (dBm)	Required Limit
2402	1.24	1 Watt = 30 dBm
2441	0.64	1 Watt = 30 dBm
2480	-0.05	1 Watt = 30 dBm

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:	1.24	(dBm)
Maximum peak output power at antenna input terminal:	1.330454418	(mW)
Duty cycle:	99	(%)
Maximum Pav :	1.317149874	(mW)
Antenna gain (typical):	0	(dBi)
Maximum antenna gain:	1	(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)	0.000262	(mW/cm^2)

Measurement Result

The predicted power density level at 20 cm is 0.000262mW/cm^2 . This is below the uncontrolled exposure limit of 1mW/cm^2 at 2402 MHz.

~ End of Report ~