



15. FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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	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	1	1	F/1500	30		
1500-15000	1	1	1.0	30		

F = frequency in MHz

Note:

Prediction of MPE limit at a given distance

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

S=PG/4πR2

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

*Note: BT / WLAN 2.4G / WLAN 5G will transmit together.

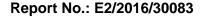
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^{* =} Plane-wave equipment power density





15.2 Maximum Permissible Exposure (MPE) Evaluation (Worst Case)

1M BR mode (Average): Tune up tolerance ± dBm

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Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)		
0	2402.00	0.15	1.035	1000		
39	2441.00	2.48	1.770	1000		
78	2480.00	0.73	1.183	1000		

MPE Prediction (BR 2402~2480)

Max. output power including tune-up tolerancel:	2.48	(dBm)
Max. output power including tune-up tolerancel:	1.770109	(mW)
Duty cycle:	77	(%)
Maximum Pav :	1.3629839	(mW)
Peak Antenna gain (Maximum):	2	(dBi)
Peak Antenna gain (linear):	1.5848932	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2441	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm2)
Power density at predication frequency at 20 (cm)	0.000	(mW/cm ²)
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Measurement Result

The predicted power density level at 20 cm is 0 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 2441MHz.

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