

1. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 the mobile device. The MPE of this device 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				
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

* = 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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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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1.2. Maximum Permissible Exposure (MPE) Evaluation

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
2402	2.55	0.0018	1
2441	2.31	0.0017	1
2480	2.11	0.0016	1

MPE Prediction (BT Mode)

Prediction of MPE limit at a given distance

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

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

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:	2.55	(dBm)
Maximum peak output power at antenna input terminal:	1.798870915	(mW)
Duty cycle:	78	(%)
Maximum Pav :	1.403119314	(mW)
Antenna gain (Maximum):	-15.1	(dBi)
Antenna gain (linear):	0.030902954	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2402	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0000086	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.0000086 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2402MHz.

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1.3. Maximum Permissible Exposure (MPE) Evaluation – Maximum tune up power

Max. Rated Peak Power + Max. Tolerance (dBm): 3.55dBm

MPE Prediction (BT Mode)

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:	3.55	(dBm)
Maximum peak output power at antenna input terminal:	2.264644308	(mW)
Duty cycle:	78	(%)
Maximum Pav :	1.76642256	(mW)
Antenna gain (Maximum):	-15.1	(dBi)
Antenna gain (linear):	0.030902954	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2402	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0000109	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.0000109 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2402MHz.

~ End of Report ~

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