



14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

F = frequency in MHz

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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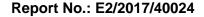
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台灣檢驗科技股份有限公司 t (886-2) 2299-3279

SGS Taiwan Ltd.

f (886-2) 2298-0488

^{* =} Plane-wave equipment power density





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

802.11b Main									
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT			
1	2412	1	16.04	40.18	1 Watt = 30.00 dBm	PASS			
6	2437	1	16.03	40.09	1 Watt = 30.00 dBm	PASS			
11	2462	1	16.30	42.66	1 Watt = 30.00 dBm	PASS			
802.11b Main									
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT			
1	2412	1	13.78	23.88	1 Watt = 30.00 dBm	PASS			
6	2437	1	13.75	23.71	1 Watt = 30.00 dBm	PASS			
11	2462	1	13.76	23.77	1 Watt = 30.00 dBm	PASS			

MPE Prediction (802.11b 2412~2462)

Prediction of MPE limit at a given distance

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

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

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

13.78	(dBm)
23.878113	(mW)
99.5	(%)
23.758722	(mW)
2.3	(dBi)
1.6982437	(numeric)
20	(cm)
2412	(MHz)
1	(mW/cm ²)
0.008	(mW/cm ²)
	13.78 23.878113 99.5 23.758722 2.3 1.6982437 20 2412 1 0.008

Measurement Result

The predicted power density level at 20 cm is 0.008 mW/cm2.

This is below the uncontrolled exposure limit of 1 mW/cm2 at 2412MHz.

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

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