



15. 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

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. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留別天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of the contained hereon reflects the Company's findings at the time of its intervention only and within the limits of the contained hereon reflects the Company's findings at the time of its intervention only and within the limits of the contained hereon reflects the Company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's findings at the time of its intervention only and within the limits of the contained hereon reflects the company's Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law

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

f (886-2) 2298-0488

^{* =} Plane-wave equipment power density





15.2. Measurement Result:

RFID					
СН	Freq. (MHz)	Avg. Out- put Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	902.75	28.16	654.64	1 Watt = 30.00 dBm	PASS
25	914.75	28.08	642.69	1 Watt = 30.00 dBm	PASS
50	927.25	28.16	654.64	1 Watt = 30.00 dBm	PASS

MPE Prediction

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

Max. output power including tune-up tolerancel:	28.16	(dBm)
Max. output power including tune-up tolerancel:	654.63617	(mW)
Duty cycle:	27	(%)
Maximum Pav :	176.75177	(mW)
Peak Antenna gain (Maximum):	2.79	(dBi)
Peak Antenna gain (linear):	1.9010783	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	902.75	(MHz)
MPE limit for uncontrolled exposure at prediction	0.6018333	(mW/cm2)
Power density at predication frequency at 20 (cm)	0.067	(mW/cm ²)
Magaziramant Dagult		-

Measurement Result

The predicted power density level at 20 cm is 0.067 mW/cm2.

This is below the uncontrolled exposure limit of 0.60183 mW/cm2 at 902.75MHz.

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. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appropriate of this document is any the presented to the full per vertical to the f pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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

f (886-2) 2298-0488