1 最大暴露允許值 (MAXIMUM PERMISSIBLE EXPOSURE, MPE)

1.1 規範要求

依據 NCC 低功率射頻電機技術規範之 5.20.2，其發射機距離人體 20 公分以上者，需證明其符合電波暴露量之要求 ，限制值如下:

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm^2)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f^2	6
30-300	61.4	0.163	1.0	6
300-1,500	-----	-----	f/300	6
1,500-100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm2)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f2	30
30-300	27.5	0.073	1.0	30
300-1,500	-----	-----	f/1500	30
1,500-100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

1.2 適用種類

此待測物，為一般市面上販售，固適用表 2)之限制值

1.3 最大暴露允許值之評估

僅以最差模式進行評估，評估結果請見下頁。

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MIMO (最差模式)

802.11a_2Tx

CH	Freq. (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH0	CH1			
36	5180	6	13.72	13.31	16.70	30	PASS
44	5220	6	14.42	14.37	17.58	30	PASS
48	5240	6	14.61	14.52	17.75	30	PASS
149	5745	6	14.38	13.02	16.93	30	PASS
157	5785	6	16.15	14.03	**18.40**	30	PASS
165	5825	6	15.74	14.14	18.19	30	PASS

導入之公式: page 18 of OET Bulletin 65, Edition 97-01

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

S = 功率密度 P = 傳導功率 G = 天線增益值 R = 人體與天線之距離

MIMO 模式 gain 值計算= 4.49dBm

Max. output power including tune-up tolerancel:	18.40	(dBm)
Max. output power including tune-up tolerancel:	69.1830971	(mW)
Duty cycle:	95.26	(%)
Maximum Pav :	65.9038183	(mW)
Peak Antenna gain (Maximum):	4.49	(dBi)
Peak Antenna gain (linear):	2.81190083	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5785	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at predication frequency at 20 (cm) distance	0.0369	(mW/cm^2)

運算之結果:

當功率密度在 20 cm，其最大暴露值為 0.0369 mW/cm^2.

註:工作頻率為頻率範圍1,500-100,000 (MHz), 固其對應之限制值為1.0mW/cm^2.

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