

## 電磁波功率量測報告

基站名稱：龍潭核研所風力發電塔  
基站編號：32597000



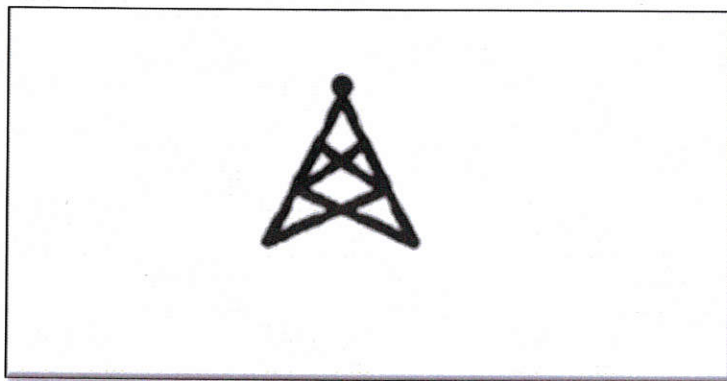
發行日期：中華民國 111 年 8 月 31 日

Test Report Form No.: SGS 電磁波功率測試報告\_01

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## 第一類電信事業電臺電磁波量測位置示意圖



◎ TEST3

TEST 2 ◎

◎ TEST 1

TEST 1 桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔

TEST 2 桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔

TEST 3 桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔

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第一類電信事業電台電磁波量測記錄表

量測日期	: 中華民國 111 年 8 月 24 日	溫度: 32.5℃, 濕度 52%
委託日期	: 中華民國 111 年 7 月 28 日	
顧客名稱	: 台灣大哥大股份有限公司	
顧客地址	: 台北市內湖區瑞光路 496 號 7F	
受量測天線	: 700MHz, 900MHz, 1800MHz, 2100MHz	
頻譜圖號碼	: T1(1M1~4M4), T2(5M1~8M3), T3(9M1~12M3)	
基地台地址	: 桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔	

量測地點	頻譜號碼	頻率MHz	功率值dBm	天線因子AF(dB/m)	電纜損耗CL(dB)	電場強度		功率密度(mW/cm <sup>2</sup> )	功率密度合計值(mW/cm <sup>2</sup> )	規範值(mW/cm <sup>2</sup> )	量測結果
						(dB μ V/m)	(V/m)				
T1	1M1	762.90	-42.22	25.10	1.08	90.96	0.0353	0.000000330557	0.000024019919	功率密度值 700MHz <0.35(mW/cm <sup>2</sup> )  900MHz <0.45(mW/cm <sup>2</sup> )  1800MHz <0.9(mW/cm <sup>2</sup> )  2100MHz <1(mW/cm <sup>2</sup> )	<input checked="" type="checkbox"/> 符合  <input type="checkbox"/> 不符合
	1M2	794.93	-43.70	25.10	1.08	89.48	0.0298	0.000000235096			
	2M1	937.22	-29.50	23.80	1.26	102.56	0.1343	0.000004777997			
	2M2	943.98	-29.84	23.80	1.26	102.22	0.1291	0.000004418205			
	3M1	1816.03	-28.70	25.40	1.89	105.59	0.1903	0.000009599439			
	3M2	1838.64	-36.68	25.40	1.93	97.65	0.0763	0.000001542574			
	3M3	1865.50	-40.10	25.50	1.91	94.31	0.0519	0.000000714901			
	4M1	2129.09	-40.00	26.40	2.11	95.51	0.0596	0.000000942423			
	4M2	2122.85	-40.27	26.40	2.12	95.25	0.0579	0.000000887658			
	4M3	2154.01	-44.90	27.00	2.11	91.21	0.0363	0.000000350143			
	4M4	2156.70	-46.94	27.00	2.15	89.21	0.0289	0.000000220926			
量測機構：台灣檢驗科技股份有限公司											
量測人員：李佳興					單位主管：林建興						
<div>佳興</div> <div>主任</div>					<div>建興</div> <div>技術經理</div>						
<div>SGS TAIWAN LTD</div> <div>SGS</div> <div>TAIWAN</div>											

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2. 參考文件：環署檢字第 1060004676 號，本報告的量測頻率點選定，係依本案申請單辦理。
3. 聲明本測試結果僅對測試場地試驗件有效，報告中之測試結果根據測試時之環境作實際量測與記錄並出報告。

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 委託日期：中華民國 111 年 7 月 28 日  
 顧客名稱：台灣大哥大股份有限公司  
 顧客地址：台北市內湖區瑞光路 496 號 7F  
 受量測天線：700MHz, 900MHz, 1800MHz, 2100MHz  
 頻譜圖號碼：T1(1M1~4M4), T2(5M1~8M3), T3(9M1~12M3)  
 基地台地址：桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔

量測地點	頻譜號碼	頻率 MHz	功率值 dBm	天線因子 AF(dB/m)	電纜損耗 CL(dB)	電場強度		功率密度 (mW/cm <sup>2</sup> )	功率密度合計值 (mW/cm <sup>2</sup> )	規範值 (mW/cm <sup>2</sup> )	量測結果
						(dB $\mu$ V/m)	(V/m)				
T2	5M1	761.92	-43.27	25.10	1.08	89.91	0.0313	0.000000259565	0.000003684048	功率密度值 700MHz <0.35(mW/cm <sup>2</sup> )  900MHz <0.45(mW/cm <sup>2</sup> )  1800MHz <0.9(mW/cm <sup>2</sup> )  2100MHz <1(mW/cm <sup>2</sup> )	<input checked="" type="checkbox"/> 符合          <input type="checkbox"/> 不符合
	5M2	783.93	-48.03	25.10	1.08	85.15	0.0181	0.000000086745			
	6M1	935.10	-39.63	23.80	1.26	92.43	0.0418	0.000000463709			
	6M2	943.91	-42.58	23.80	1.26	89.48	0.0298	0.000000235096			
	7M1	1836.90	-37.61	25.40	1.93	96.72	0.0685	0.000001245219			
	7M2	1817.79	-40.65	25.40	1.89	93.64	0.0481	0.000000612697			
	7M3	1855.42	-45.98	25.50	1.91	88.43	0.0264	0.000000184606			
	8M1	2121.01	-45.45	26.40	2.12	90.07	0.0319	0.000000269306			
	8M2	2126.63	-46.34	26.40	2.11	89.17	0.0287	0.000000218900			
	8M3	2149.07	-49.42	26.40	2.13	86.11	0.0202	0.000000108205			

量測機構：台灣檢驗科技股份有限公司

量測人員：李佳興

單位主管：林建興

佳興

主任

建興

技術經理



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基地台地址	: 桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔	

量測地點	頻譜號碼	頻率MHz	功率值dBm	天線因子AF(dB/m)	電纜損耗CL(dB)	電場強度		功率密度(mW/cm <sup>2</sup> )	功率密度合計值(mW/cm <sup>2</sup> )	規範值(mW/cm <sup>2</sup> )	量測結果
						(dB μV/m)	(V/m)				
T3	9M1	760.94	-39.09	25.10	1.08	94.09	0.0506	0.000000679588	0.000010932208	功率密度值 700MHz <0.35(mW/cm <sup>2</sup> )  900MHz <0.45(mW/cm <sup>2</sup> )  1800MHz <0.9(mW/cm <sup>2</sup> )  2100MHz <1(mW/cm <sup>2</sup> )	<input checked="" type="checkbox"/> 符合          <input type="checkbox"/> 不符合
	9M2	783.93	-44.66	25.10	1.08	88.52	0.0267	0.000000188472			
	10M1	935.10	-29.13	23.80	1.26	102.93	0.1401	0.000005202905			
	10M2	943.98	-33.52	23.80	1.26	98.54	0.0845	0.000001893415			
	11M1	1832.32	-41.36	25.40	1.89	92.93	0.0443	0.000000520290			
	11M2	1816.27	-45.33	25.40	1.89	88.96	0.0281	0.000000208567			
	11M3	1864.49	-43.28	25.50	1.91	91.13	0.0360	0.000000343753			
	12M1	2149.05	-38.84	26.40	2.13	96.69	0.0683	0.000001236647			
	12M2	2122.49	-45.45	26.40	2.12	90.07	0.0319	0.000000269306			
	12M3	2126.70	-43.84	26.40	2.11	91.67	0.0383	0.000000389265			
量測機構：台灣檢驗科技股份有限公司											
量測人員：李佳興					單位主管：林建興						
											
主任					技術經理						

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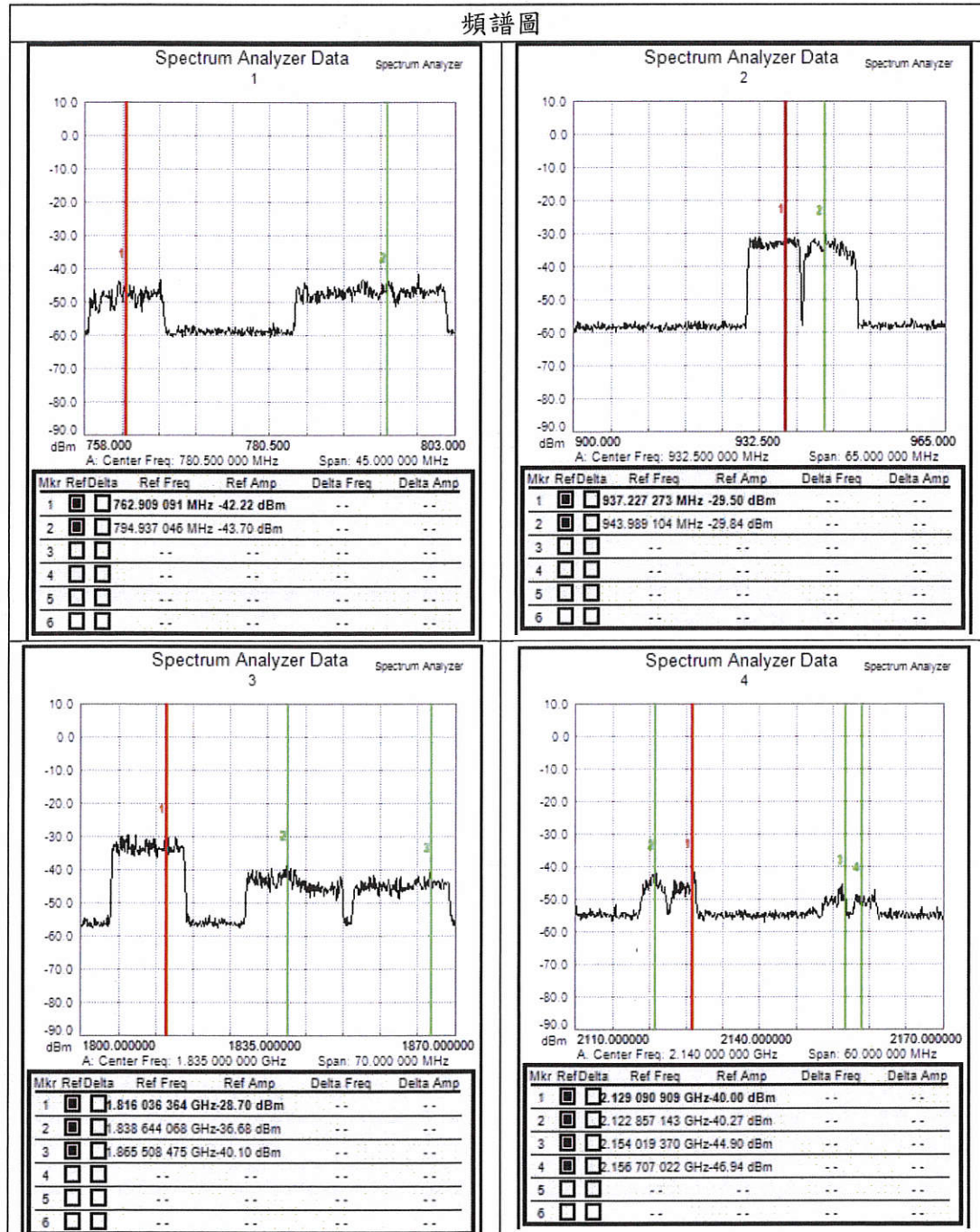
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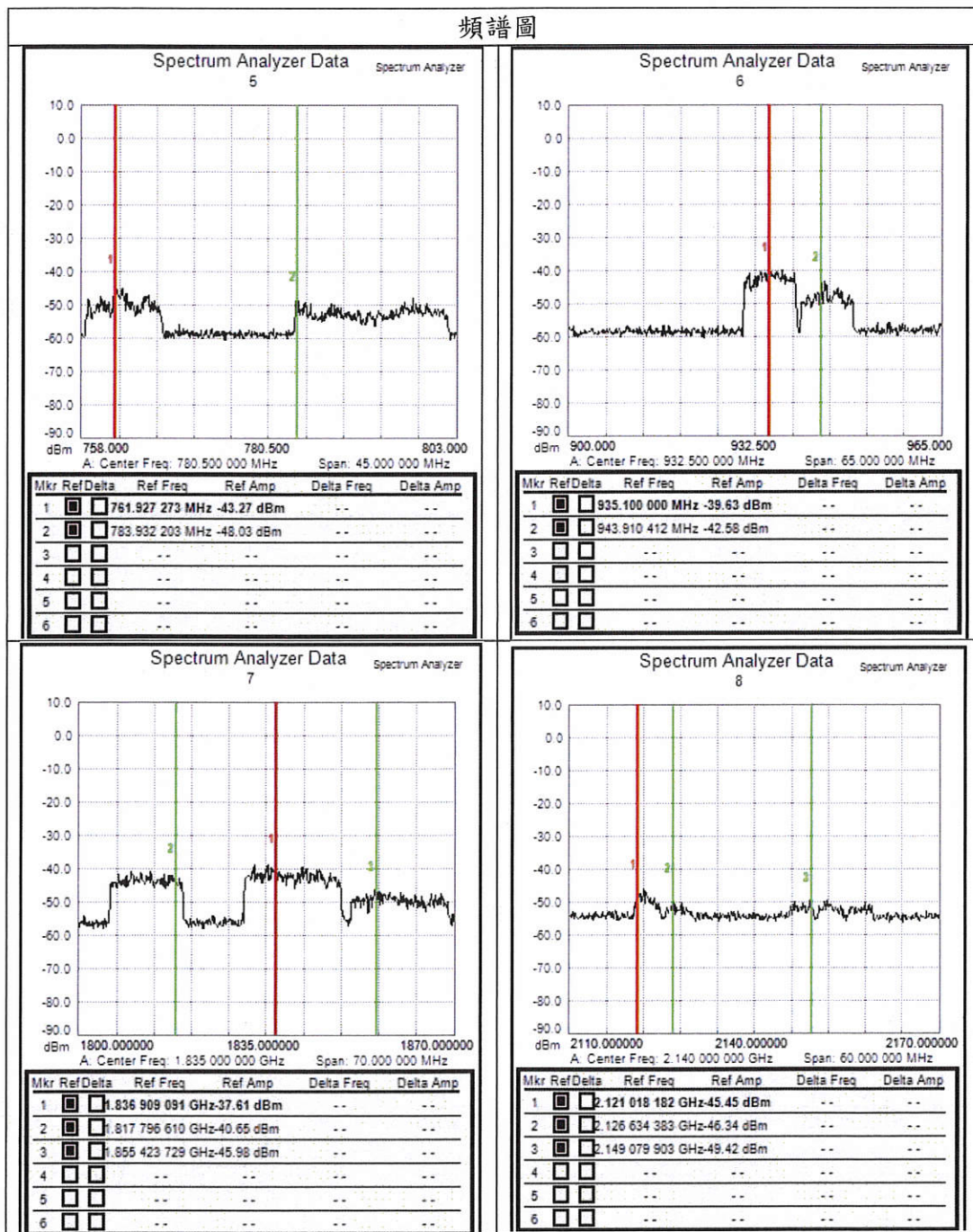
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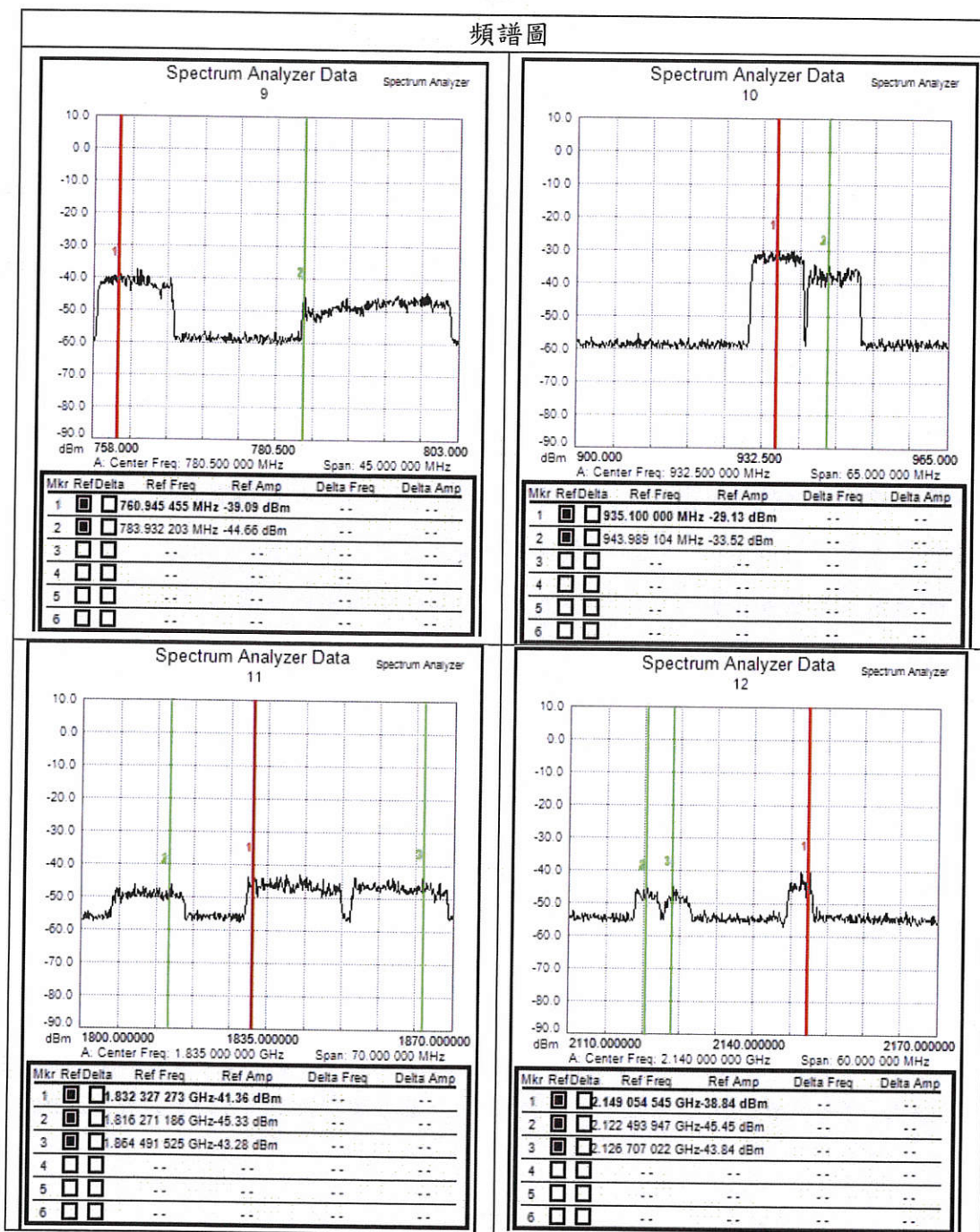


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## 電波功率密度之測試程序

- (1) 測試點之高度：基地臺架設於建築物者，將量測儀器（頻譜分析儀）測試用之接收天線設置於基地臺天線所在區域之人員合理活動範圍，並離該樓板地面 1.6 公尺處為測試點之高度；基地臺架設於空地者，將測試用之接收天線設置於離地面 1.6 公尺處為測試點之高度。
- (2) 測試點之選擇：測試點選擇，以基地臺每一天線附近人體可活動範圍內為測試區域。
- (3) 測試方法：以測試饋電線之兩端分別連接至接收天線信號輸出端與量測儀器信號輸入端。審驗人員在測試區域內先以儀器或工程型用戶終端設備量測電波功率值 (dBm)，並以量測出最大值之地點為測試點，再利用量測儀器進行量測並記錄之。每一測試點均須以該天線所發射頻率，進行電波功率值量測，其量測時間為一分鐘，必要時得延長測試時間為六分鐘，並以量測最大值記錄之。
- (4) 測試值換算：每一測試紀錄值換算成電波功率密度值毫瓦/平方公分 ( $\text{mW}/\text{cm}^2$ ) 再加總，始為此測試點之電波功率密度值。

若無發證方案及其標準規範特別要求，依據 IEC GUIDE 115 CL.4.4.3 Figure 2 (不考量量測不確定度的影響)，實驗室所出具之測試報告不包含量測不確定度。當實驗室出具之測試報告須提供符合性聲明時，其符合性決定規則將不考量量測不確定度。

### 參考文件：

1. 行政院環境保護署公告「環境中射頻電磁波檢測方法」(環署檢字第 1060004676 號)。
2. 行政院環境保護署公告「限制時變電場、磁場及電磁場曝露指引」(環署空字第 1090004463 號)。

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## 電場強度及電波功率密度換算說明

### 1. 電場強度(V/m, $\mu\text{V/m}$ , dB $\mu\text{V/m}$ ):

表示空間中電場向量之大小值。其單位為伏特每公尺 (V/m)。對於較微弱之電場值，常以微伏特每公尺 ( $\mu\text{V/m}$ ) 為表示單位。以對數表示時，則常以 dB  $\mu\text{V/m}$  為表示單位。

### 2. 電波功率密度 ( $\text{W/m}^2$ , $\text{mW/cm}^2$ ):

於垂直電磁波行進方向之平面上，單位面積上之電波功率值。其單位為瓦特每平方公尺 ( $\text{W/m}^2$ )。對於較微弱之電波功率密度，常以毫瓦特每平方公分 ( $\text{mW/cm}^2$ ) 為表示單位。

### 3. 天線因子：

為天線之特性參數之一，表示接收機自天線端點所量測到之電壓值（單位為伏特，V）與天線所在位置空間中之電場強度（單位為伏特每公尺，V/m）關係。

$$AF (\text{dB/m}) = 20 \log (f \text{ MHz}) - \text{Gain} - [29.8 \text{ dB} (50 \Omega) \text{ or } 31.54 \text{ dB} (75 \Omega)]$$

### 4. 電纜損耗 (dB): 信號在電纜線上傳輸過程中，信號強度之衰減率。

### 5. 換算說明：

$$\text{電場強度 } E_0 (\text{dB}\mu\text{V/m}) = \text{接收信號功率強度 (dBm)} + 107 (\text{dB})$$

$$+ \text{天線因子 (dB/m)}$$

$$+ \text{電纜損耗 (dB)}$$

$$E_0 (\text{dB}\mu\text{V/m}) = 20 * \log E_1 (\mu\text{V/m})$$

$$E_2 (\text{V/m}) = E_1 (\mu\text{V/m}) / 10^6$$

$$\text{電波功率密度: } P (\text{mW/cm}^2) = [E_2 (\text{V/m})]^2 / (10 \times Z_0) = [E_2 (\text{V/m})]^2 / 3770$$

( $Z_0$ : 自由空間之波阻抗，約等於  $377 \Omega$ )

## 電磁場最大容許曝露量與頻率之關係

頻率範圍 (MHz)	電場強度(E) (V/m)	磁場強度(H) (A/m)	電波功率密度(S) ( $\text{mW/cm}^2$ )
10~400	28	0.073	0.2
400~2000	$1.375f^{1/2}$	$0.0037f^{1/2}$	$f/2000$
2000~300000	61	0.16	1

### 量測儀器

儀器名稱	廠牌	型號	序號	校正日期
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 A	459	Oct. 18, 2021
Handheld Spectrum Analyzer	ANRITSU	MS2712E	1152114	Oct. 14, 2021

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量測人員資格：高級電信工程人員資格名冊

台灣檢驗科技股份有限公司

高級電信工程人員資格准予備查名冊

製表日期：中華民國 108 年 7 月 2 日

遴用人員類別	姓名	身分證字號	符合資格規定	遴用人員資格	電信工作年資	擔任工作及時間
高級電信工程人員	李佳興	P12044****	第四條第一項第三款規定	95 年亞東技術學院通訊工程系畢業	19 年	89 年 4 月 20 日起在本公司擔任主任，從事電信電力之工作
高級電信工程人員	陳信憲	B12274****	第四條第一項第三款規定	101 年勤益科技大學電子工程系畢業	5 年	103 年 3 月 1 日起在本公司擔任測試工程師，從事電信電力之工作
以下空白						

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實驗室量測資格：NCC 第一類電信事業電臺電磁波量測證書



## 辦理第一類電信事業電臺電磁波量測證書

證照字號：量測字第 1100072912 號

- 一、量測機構名稱：台灣檢驗科技股份有限公司
- 二、公司地址：新北市五股區新北產業園區五工路 136 之 1 號
- 三、量測頻段範圍：300MHz - 35,000MHz
- 四、有效期限：民國 110 年 11 月 15 日起至 113 年 11 月 14 日止
- 五、發照日期：民國 110 年 11 月 5 日



中華民國 110 年 11 月 5 日

序號 1319970

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## 量測說明書

中華民國 111 年 8 月 24 日至桃園市龍潭區文化路 1000 號中科院核研所風力鐵塔，依環署檢字第 1060004676 號測試，經檢測結果均符合環署空字第 1090004463 號令限制時變電場、磁場及電磁場曝露指引之規定。

SGS 為 TAF(財團法人全國認證基金會)核可檢測單位，認可編號：2806。

詳細測試內容如附件：TSSC2208000216T1

