



晶復科技股份有限公司

A Test Lab Techno Corp.

低功率射頻電機試驗報告

報告編號 2006DR118

版本(Rev.) 01

產品名稱 Wireless Subwoofer

申請廠商 Harman International Industries, Incorporated

商標或廠牌 harman/kardon

型式 (號) CITATION SUB S

產品試驗依據之標準 低功率射頻電機技術規範(LP0002) 107 年 1 月 10 日

報告發行日期 109 年 07 月 16 日

填發本型式認可報告之試驗機構 (認可代號)

晶復科技股份有限公司
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財團法人全國認證基金會
認證編號 : 1330
認證有效期間 : 108.09.06 ~ 111.09.05
認可能量範圍 : 低功率射頻電機技術規範(LP0002) (頻率範圍:9 kHz to 40 GHz)
2.4 GHz 射頻電信終端設備技術規範(RTTE01)

免責聲明

- 1.本測試報告所敘述之測試結果，僅對顧客所提供之測試樣品，在此測試報告所述及之測試條件下，所實施之量測有效。
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報告修訂紀錄

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00	109 年 07 月 08 日	初版發行	鄭安蓁
01	109 年 07 月 16 日	更新 1.1 章節(P.5) 更新 2.5 章節(P.8)	朱自佳

低功率射頻電機測試證明書

產品名稱 : Wireless Subwoofer

商 標 : harman/kardon

型 號 : CITATION SUB S

申請廠商 : Harman International Industries, Incorporated

申請者地址 : 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

製造廠商 : Guoguang Electric Co., Ltd.

製造廠商地址 : No. 8 Jinghu Road, Xinya Street, Huadu District, Guangzhou, Guangdong Province, P.R. China

待測物電壓 : AC 100-240 V, 50/60 Hz

試驗電壓 : 110 Vac, 60 Hz

量測規範 : 低功率射頻電機技術規範(LP0002) 107年1月10日

試驗實驗室 : 晶復科技股份有限公司(桃園市八德區長安街140-1號)

試驗受理日期 : 109 年 05 月 13 日

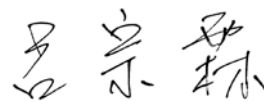
試驗日期 : 109 年 06 月 06 日 ~ 109 年 06 月 17 日

報告中所描述之測試結果與待測設備之架構組合, 均根據實際量測情況作詳實的記錄。

由測試結果顯示, 上述待測設備樣機確實已符合低功率射頻電機技術規範(LP0002)所規定的各項限制值。

特 此 證 明 !

審 核 者 :



(呂 宗 霖)

目 錄

名 稱	頁 次
低功率射頻電機測試證明書.....	3
1. 一般敘述	5
1.1 待測設備一般敘述.....	5
1.2 其他相關聲明	6
2. 量測儀器及測試配置說明	6
2.1 量測設備	6
2.2 檢驗系統示意圖	7
2.3 輔助測試之週邊設備描述	7
2.4 測試軟體版本.....	8
2.5 測試模式	8
2.6 量測不確定度.....	10
2.7 試驗環境.....	10
3. 測試項目與結果判定總表	11
4. 測試項目表列	12
4.1 電源線傳導干擾之量測.....	12
4.2 5 GHz U-NII 檢驗項目.....	15
4.2.1 場強輻射與非必要頻帶之量測	15
4.2.2 最大傳導輸出功率之量測	71
4.2.3 最大傳導功率頻譜密度之要求	74
4.2.4 26 dB 頻寬之要求.....	80
4.2.5 6 dB 頻寬之要求	84
4.2.6 發射功率控制(TPC)之量測.....	86
4.2.7 動態頻率選擇(DFS)之量測	87
4.2.8 頻道可用性檢查時間之量測.....	88
4.2.9 頻道移動時間之量測	89
4.2.10 不可佔用時間之量測	91
4.2.11 天線規格之要求	92
4.2.12 電波暴露量之評估	93

1. 一般敘述

1.1 待測設備一般敘述

本敘述僅針對產品簡單說明之，其他詳細之規格請參考使用說明書。

產 品 名 稱	Wireless Subwoofer				
商 標 或 廠 牌	harman/kardon				
型 號	CITATION SUB S				
額 定 電 源	AC 100-240 V, 50/60 Hz				
調 變 方 式	WISA: OFDM, BPSK, QPSK, 16QAM *此產品之不具有動態選擇(DFS)之雷達偵測功能				
頻 率 使 用 範 圍	Mode			Frequency Range (MHz)	
	WISA U-NII Band I			5180 – 5240	
	WISA U-NII Band II-A			5260 – 5320	
	WISA U-NII Band II-C			5500 – 5700	
	WISA U-NII Band III			5745 – 5825	
天 線 資 訊	Antenna	廠牌	型號	型態	增益值(dBi)
	ANT-0	Focus Enhancements	Ice Axe #3	PCB Antenna	1.24
RF 最大輸出功率	Mode			Power	
	WISA U-NII Band I			12.10 dBm	0.016 W
	WISA U-NII Band II-A			11.62 dBm	0.015 W
	WISA U-NII Band II-C			11.05 dBm	0.013 W
	WISA U-NII Band III			11.43 dBm	0.014 W

Note : Wisa Follow 802.11a。

輸出/輸入埠說明：

輸 出 / 入 埠		數量	介面內容說明
1	AC Power Port	1	連接至 AC Input
2	SERVICE 1 Port	1	連接至治具/售後維修使用
3	SERVICE 2 Port	1	原廠升級使用

待測設備外圍說明：

電 源 線 類 別	本產品透過電源線供電
附 屬 裝 置	請參見下列附屬裝置表

附屬裝置表：

裝置名稱	廠牌	型號	備註
電源線	harman/kardon	CITATION SUB S	Non-Shielded, 1.75 m

1.2 其他相關聲明

本測試報告屬(以下選擇一種打■)

☒	申請新的型式檢驗認可的測試。
☐	已取得型式檢驗認可之商品,因設計變更而重新測試。 登錄號碼: XXXXXXXX

2. 量測儀器及測試配置說明

2.1 量測設備

For Conducted

Test Period: Jun. 16 ~ Jun. 17, 2020

測試者: 呂迪曄

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/18/2019	1 year
Power Sensor	Agilent	N1921A	MY45241957	12/10/2020	1 year
Power Meter	Agilent	N1911A	MY45101619	12/10/2020	1 year

For Conducted Emission

Test Period: Jun. 06, 2020

測試者: 申世傑

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
測試接收機 (9 kHz~3 GHz)	R&S	ESCI	100367	05/22/2020	1 year
線性阻抗模擬網路	R&S	ENV216	101040	03/23/2020	1 year
線性阻抗模擬網路	R&S	ENV216	101041	04/06/2020	1 year

For Radiated Emissions

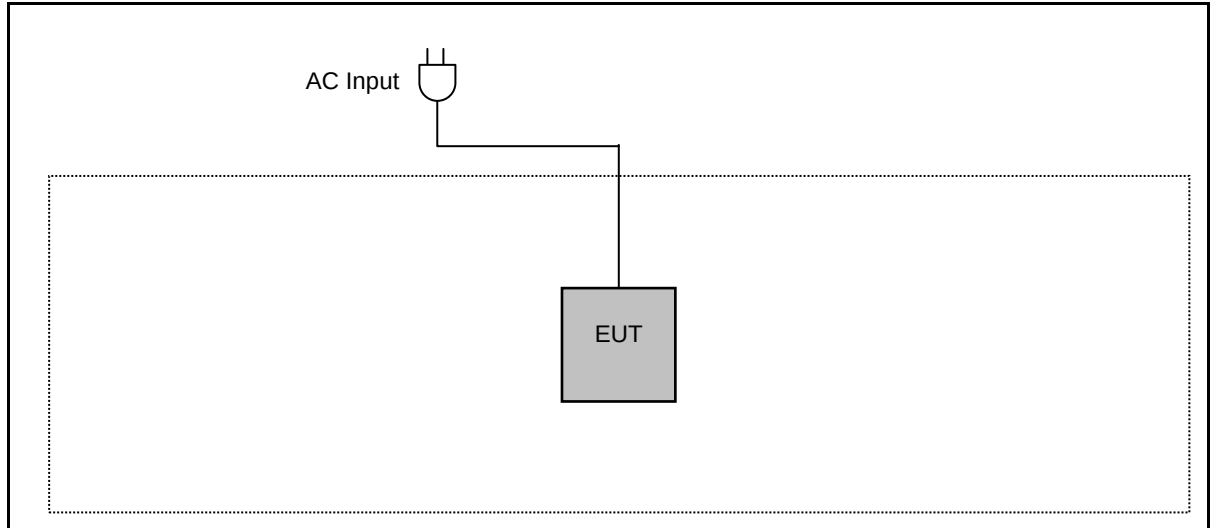
Test Period: Jun. 13, 2020

測試者: 廖經雄

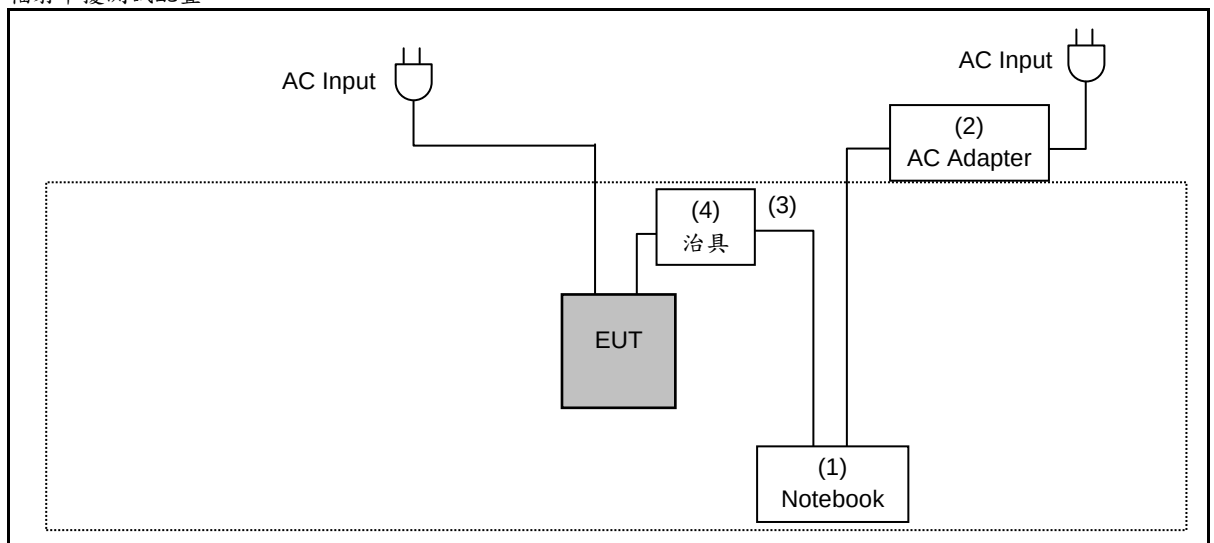
名稱	廠牌	型號	序號	本次校驗日期	校驗年限
EXA Signal Analyzer	Keysight	N9010A	MY52221312	01/13/2020	1 year
Amplifier	Agilent	8449B	3008A02237	10/18/2019	1 year
Amplifier	Agilent	8447D	2944A11119	01/15/2020	1 year
Preamplifier	EMCI	EMC2654045	980028	08/23/2019	1 year
天線	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	416	10/23/2019	1 year
天線(1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/22/2019	1 year
天線(18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/14/2019	1 year

2.2 檢驗系統示意圖

電源傳導干擾測試配置



輻射干擾測試配置



2.3 輔助測試之週邊設備描述

下列輔助設備或配件為測試中所使用，以形成一個代表性的受測系統。

週邊名稱	商標	型號	序號	電源線	備註
(1) Notebook	DELL	LATITUDE E5440	BRTQXY1	---	(實驗室提供)
(2) AC Adapter	DELL	HA65NM130	---	Non-Shielded, 0.8 m	INPUT : 100-240 VAC, 50/60 Hz, 1.7 A OUTPUT : 19.5 VDC, 3.34 A (實驗室提供)
(3) USB Cable	Just Power	---	---	---	規格 : STD-A to Micro B 長度 : 1 m (實驗室提供)
(4) 治具	harman/ kardon	E322995	---	---	(申請者提供)

2.4 測試軟體版本

Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

2.5 測試模式

使用定頻模式量測

Test Mode
Mode 1: Transmit Mode
Mode 2: WISA Continuous TX Mode
Mode 3: Receiver Mode

Note：此產品有黑色及灰色 2 種顏色，台灣僅販售灰色，黑色產品僅供輻射量測使用，與灰色產品差異僅有外觀顏色不同，不涉及材質差異。

Test Mode	ANT-0
Mode 2	V

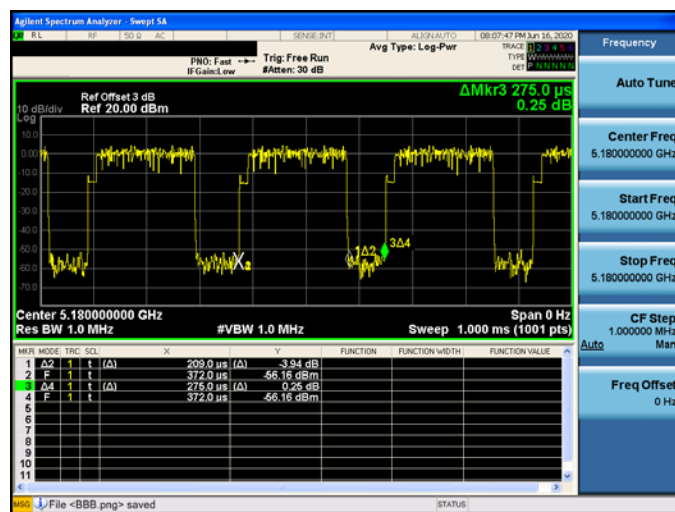
Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	1TX / 3RX	6	36, 40, 48, 52, 56, 64, 100, 112, 140, 149, 157, 165

Duty cycle

Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	5180.0	0.209	0.275	0.760	1.192	4.785

Mode 2: WISA Continuous TX Mode

On+off time



2.6 量測不確定度

下列量測不確定水準是參照量測儀器 CISPR 16-4-2 所規定之不確定度。

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.68
Radiated Emission	9 kHz ~ 30 MHz	2.14
	30 MHz ~ 1000 MHz	4.99
	1000 MHz ~ 18000 MHz	4.99
	18000 MHz ~ 26500 MHz	4.23
	26500 MHz ~ 40000 MHz	4.39
Conducted Output Power		0.92 dB
RF Bandwidth		4.79 %
Power Spectral Density		0.92 dB
Frequency Stability		4.1×10^{-8}
Duty Cycle		1.06 %
Time Occupancy		1.40 %

2.7 試驗環境

產品測試時之實驗室環境條件如下：

項 目	測 試 項 目	需 求	實 際
溫度 Temperature (°C)	LP0002	10 - 40	20 - 30
濕度 Humidity (%RH)		10 - 90	45 - 75

3. 測試項目與結果判定總表

本測試報告之所有項目皆依據 NCC 低功率射頻電機技術規範(LP0002)之檢驗法。

5 GHz U-NII 頻段適用下列表格

項次	測試項目	適用規範	測試結果	量測設備	結果判定
1	電源線傳導干擾	低功率射頻電機技術規範 2.3 節	請參閱 4.1 節	請參閱 2.1 節	符合
2	場強輻射	低功率射頻電機技術規範 2.8 節、2.9 節	請參閱 4.2.1 節	請參閱 2.1 節	符合
3	頻帶邊緣外之輻射發射	低功率射頻電機技術規範 2.7、4.7.4 節	請參閱 4.2.1 節	請參閱 2.1 節	符合
4	非必要頻帶	低功率射頻電機技術規範 4.7.4 節	請參閱 4.2.1 節	請參閱 2.1 節	符合
5	最大傳導輸出功率	低功率射頻電機技術規範 4.7.3.1、4.7.3.2、4.7.3.3 節	請參閱 4.2.2 節	請參閱 2.1 節	符合
6	最大傳導功率頻譜密度	低功率射頻電機技術規範 4.7.3.1、4.7.3.2、4.7.3.3 節	請參閱 4.2.3 節	請參閱 2.1 節	符合
7	26 dB 頻寬之要求	N/A	請參閱 4.2.4 節	請參閱 2.1 節	----
8	6 dB 頻寬之要求	低功率射頻電機技術規範 4.7.5 節	請參閱 4.2.5 節	請參閱 2.1 節	符合
9	發射功率控制(TPC)	低功率射頻電機技術規範 4.7.7.1 節	請參閱 4.2.6 節	請參閱 2.1 節	符合
10	動態頻率選擇(DFS) 雷達偵測功能	低功率射頻電機技術規範 4.7.7.2 節	請參閱 4.2.7 節	請參閱 2.1 節	不適用
11	動態頻率選擇(DFS) 頻道可用性檢查時間	低功率射頻電機技術規範 4.7.7.2(3)節	請參閱 4.2.8 節	請參閱 2.1 節	不適用
12	動態頻率選擇(DFS) 頻道移動時間	低功率射頻電機技術規範 4.7.7.2(4)節	請參閱 4.2.9 節	請參閱 2.1 節	符合
13	動態頻率選擇(DFS) 不可佔用時間	低功率射頻電機技術規範 4.7.7.2(5)節	請參閱 4.2.10 節	請參閱 2.1 節	不適用
14	天線規格	低功率射頻電機技術規範 4.7.8 節	請參閱 4.2.11 節	-----	符合
15	電波暴露量之評估	低功率射頻電機技術規範 5.20.2.1 節、5.20.2.2 節	請參閱 4.2.12 節	請參閱 2.1 節	符合

Decision Rule

☒ Uncertainty is not included.

☐ Uncertainty is included.

4. 測試項目表列

4.1 電源線傳導干擾之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之 2.3 節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 至 30 MHz 之射頻電壓（在電源端子每一電源線對接地點）不得超過下表所列之限值。測量時應經過 50 Ω /50 μ H 之電源線阻抗模擬網路 (LISN)。頻率重疊處，以較低限值為準。

Frequency (MHz)	傳導限制值 (dBuV)	
	準峰值 (Quasi – peak)	平均值 (Average)
0.15 – 0.5	66 - 56 (註)	56 - 46 (註)
0.5 – 5	56	46
5 - 30	60	50

註：隨頻率之對數遞減。

測試方法：

測試場地為標準傳導測試場地。將待測物置於 0.8 米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15 MHz 至 30 MHz 之間之電源線傳導放射強度。

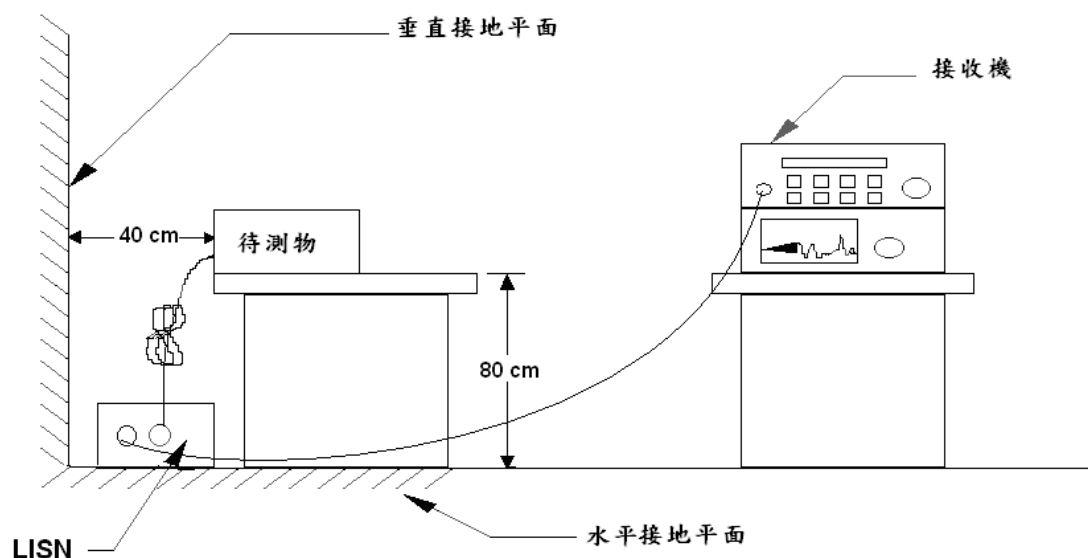
干擾值之計算

電源傳導干擾電壓之計算公式如下

結果值 = 儀器讀值(QP/AV) + 校正因子

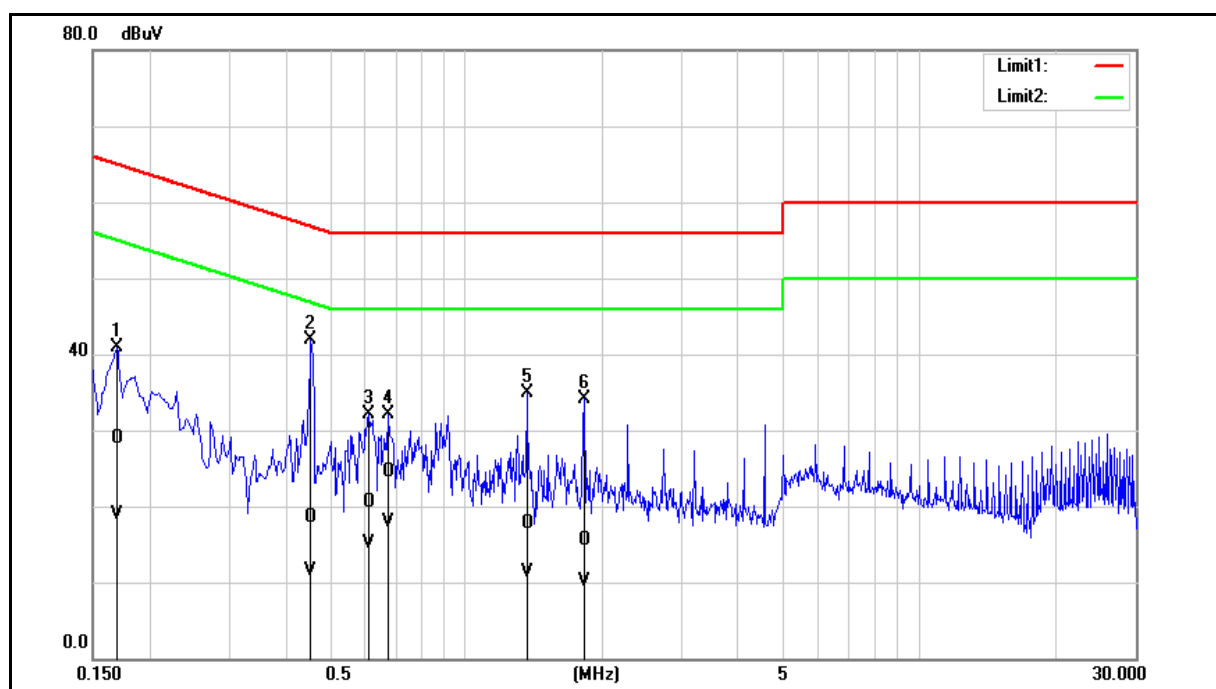
其中校正因子為：饋線損失 + 電源阻抗模擬網路損失

測試架構圖：



測試結果:

Standard:	LP0002	Line:	L1
Test item:	Conducted Emission	Power:	AC 110 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum. (%RH):	26(°C)/60 %RH
Description:			

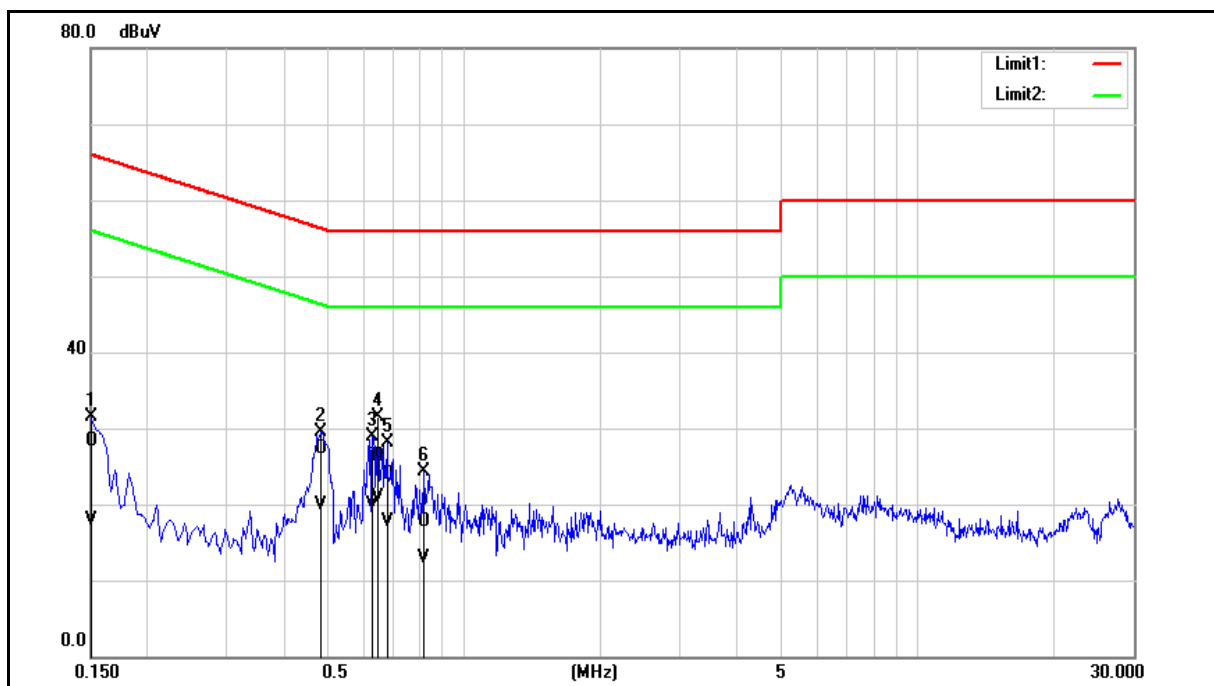


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1700	19.15	9.29	9.70	28.85	18.99	64.96	54.96	-36.11	-35.97	Pass
2	0.4540	8.70	1.73	9.71	18.41	11.44	56.80	46.80	-38.39	-35.36	Pass
3	0.6100	10.73	5.33	9.71	20.44	15.04	56.00	46.00	-35.56	-30.96	Pass
4	0.6740	14.87	8.13	9.71	24.58	17.84	56.00	46.00	-31.42	-28.16	Pass
5	1.3660	7.98	1.64	9.72	17.70	11.36	56.00	46.00	-38.30	-34.64	Pass
6	1.8220	5.75	0.28	9.75	15.50	10.03	56.00	46.00	-40.50	-35.97	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

2. 校正係數(dB) = 量測信號線損失(dB) + 電源阻抗模擬網路係數(dB)。

Standard:	LP0002	Line:	N
Test item:	Conducted Emission	Power:	AC 110 V/60 Hz
Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1500	18.59	8.20	9.69	28.28	17.89	66.00	56.00	-37.72	-38.11	Pass
2	0.4820	17.62	10.13	9.70	27.32	19.83	56.30	46.30	-28.98	-26.47	Pass
3	0.6300	16.62	10.26	9.70	26.32	19.96	56.00	46.00	-29.68	-26.04	Pass
4	0.6460	16.69	11.11	9.70	26.39	20.81	56.00	46.00	-29.61	-25.19	Pass
5	0.6780	14.28	7.98	9.70	23.98	17.68	56.00	46.00	-32.02	-28.32	Pass
6	0.8140	7.94	3.16	9.70	17.64	12.86	56.00	46.00	-38.36	-33.14	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

2. 校正係數(dB) = 量測信號線損失(dB) + 電源阻抗模擬網路係數(dB)。

4.2 5 GHz U-NII 檢驗項目

4.2.1 場強輻射與非必要頻帶之量測

場強輻射合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

依據 NCC 低功率射頻電機技術規範第 2.7 節之規定,禁用頻段如下：

頻率(MHz)	頻率(MHz)	頻率(MHz)	頻率(MHz)
0.090~0.110	108.00~138.00	1660.0~1770.0	8025.0~8500.0
0.490~0.510	149.90~150.05	1805.0~1865.0	9000.0~9200.0
2.172~2.198	156.70~156.90	1885.0~1900.0	9300.0~9500.0
3.013~3.033	162.01~167.17	1905.0~1985.0	10600~12700
4.115~4.198	167.72~173.20	2015.0~2025.0	13250~13400
5.670~5.690	240.00~285.00	2125.0~2165.0	14470~14500
6.200~6.300	322.00~335.40	2200.0~2300.0	15350~16200
8.230~8.400	399.90~410.00	2310.0~2390.0	17700~21400
12.265~12.600	485.00~510.00	2483.5~2900.0	22010~23120
13.340~13.430	608.00~614.00	3260.0~3267.0	23600~24000
14.965~15.020	703.00~748.00	3332.0~3339.0	31200~31800
16.700~16.755	758.00~803.00	3345.8~3358.0	36430~36500
19.965~20.020	825.00~915.00	3500.0~4400.0	38600 以上
25.500~25.700	930.00~1240.0	4500.0~5250.0	
37.475~38.275	1300.0~1427.0	5350.0~5460.0	
73.500~75.400	1435.0~1626.5	7250.0~7750.0	

依據 NCC 低功率射頻電機技術規範第 2.8 節之規定,除本規範各章節另有放寬規定者外，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻 率 (MHz)	電場強度 (μ V/m)	測距(m)
0.009 - 0.490(含)	2,400/頻率(千赫)	300
0.490 (不含) – 1.705 (含)	24,000/頻率(千赫)	30
1.705(不含) – 30 (不含)	30	30
30 (含) – 88 (含)	100	3
88 (不含)- 216 (含)	150	3
216 (不含)- 960 (含)	200	3
960 (不含)以上	500	3

非必要頻帶合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.4 節之要:

不必要發射之限值：在操作頻帶外的峰值發射應衰減至符合下列限值：

1. 在 5.15 GHz~5.35 GHz 及 5.470 GHz~5.725 GHz 頻帶操作的發射器：帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。
2. 在 5.725 GHz~5.850 GHz 的頻帶操作之發射器：所有頻帶邊緣的頻率發射，其有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz；所有頻帶邊緣向外 5 MHz 內頻率之發射從有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz 線性減少至有效等向輻射功率(EIRP) $\leq$ 15.6 dBm/MHz；所有頻帶邊緣向外 25 MHz 內頻率之發射從有效等向輻射功率(EIRP) $\leq$ 15.6 dBm/MHz 線性減少至有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz；所有頻帶邊緣向外 75 MHz 內頻率之發射從有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz 線性減少至有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；所有頻帶邊緣向外 75 MHz 頻率之發射的有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。
3. 量測不必要發射時，應使用之最低解析頻寬為 1 MHz。必要時，於頻帶邊緣附近可使用小於 1 MHz 之解析頻寬，並以補償方式計算其總值。
4. 當測量不必要發射之限值時，應將待測物的載波頻率調整到儘可能接近設備設計所允許的上、下頻帶邊緣。
5. 在 1 GHz 以下的不必要之發射，應符合第 2.8 條之規定，任何使用市電為供應電源之設備亦須符合 2.3 條之電源線傳導限值。
6. 不必要發射頻率屬第 2.7 條規定頻帶者，應符合第 2.8 條之規定。

測試方法：

測試場地為開放測試場，將待測物置於 0.8 米高的非金屬桌面，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

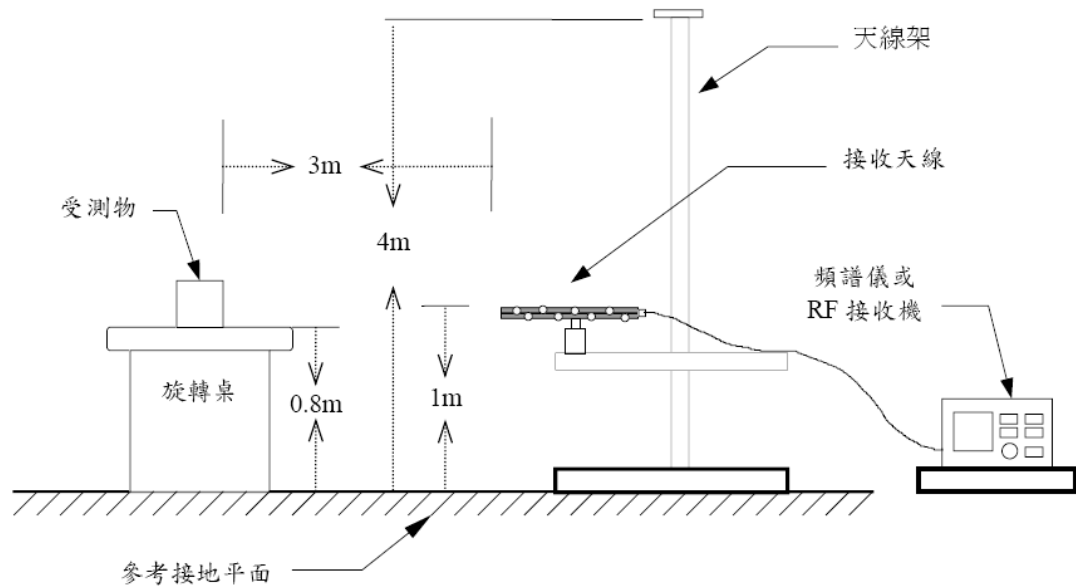
場強度之計算

場強之計算公式為：結果值 = 讀值 + 校正因子

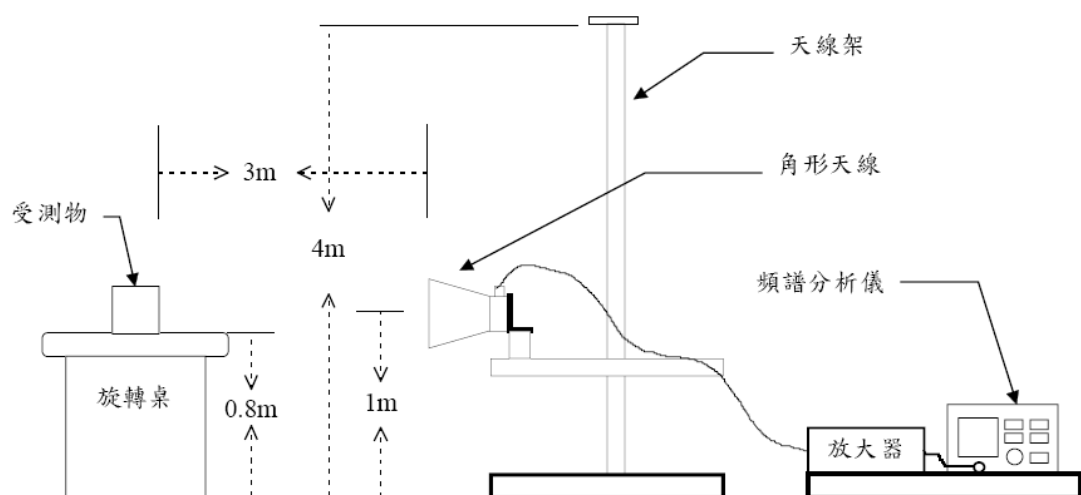
其中校正因子為：天線因子 + 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

測試架構圖：

量測頻率低於 1 GHz 以下之測試配置



量測頻率高於 1 GHz 以上之測試配置

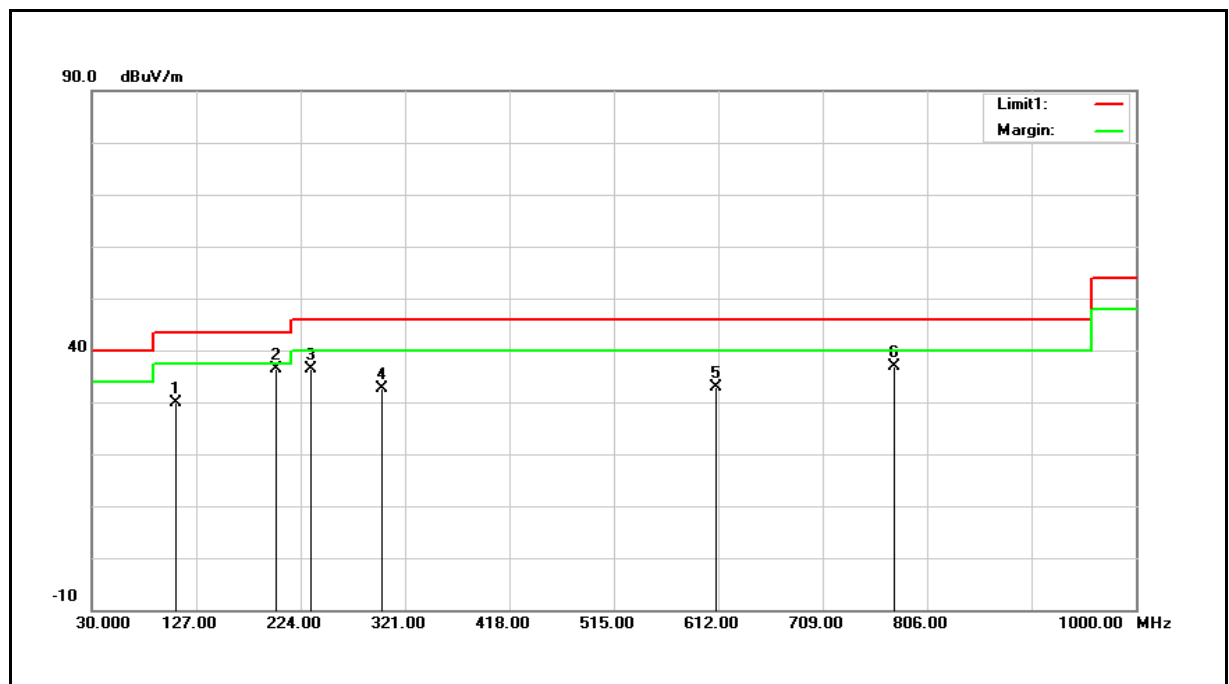


測試結果：

場強輻射之量測依據輸出峰值功率之量測結果取其最大值之操作模式為場強輻射測試模式。

其它不必要之訊號 (1 GHz 以下)

Standard:	LP0002	Test Distance:	3 m
Test item:	Radiated Emission	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	108.5700	39.24	-9.45	29.79	43.50	-13.71	QP
2	200.7200	44.29	-7.80	36.49	43.50	-7.01	QP
3	233.7000	43.09	-6.68	36.41	46.00	-9.59	QP
4	299.6600	36.87	-4.21	32.66	46.00	-13.34	QP
5	610.0600	30.37	2.58	32.95	46.00	-13.05	QP
6	775.9300	31.42	5.53	36.95	46.00	-9.05	QP

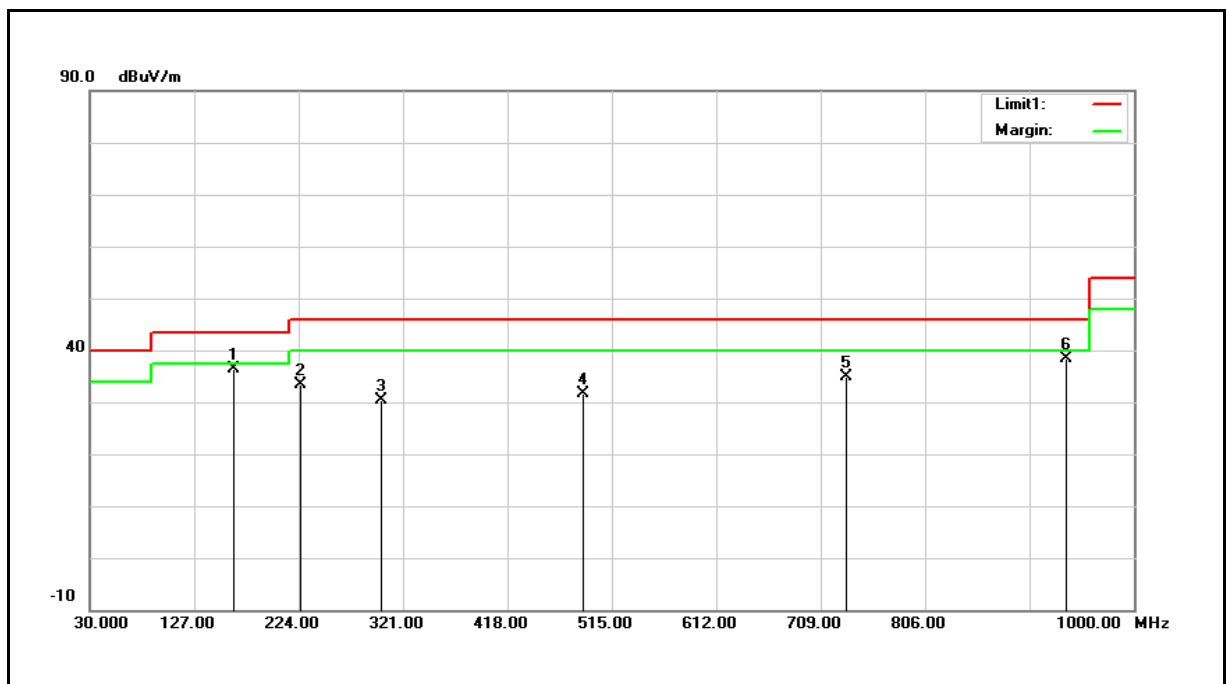
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $29.79 = -9.45 + 39.24$

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Radiated Emission	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	163.8600	42.05	-5.57	36.48	43.50	-7.02	QP
2	225.9400	40.34	-7.05	33.29	46.00	-12.71	QP
3	300.6300	34.47	-4.19	30.28	46.00	-15.72	QP
4	488.8100	31.95	-0.27	31.68	46.00	-14.32	QP
5	733.2500	30.03	4.78	34.81	46.00	-11.19	QP
6	936.9500	29.63	8.67	38.30	46.00	-7.70	QP

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

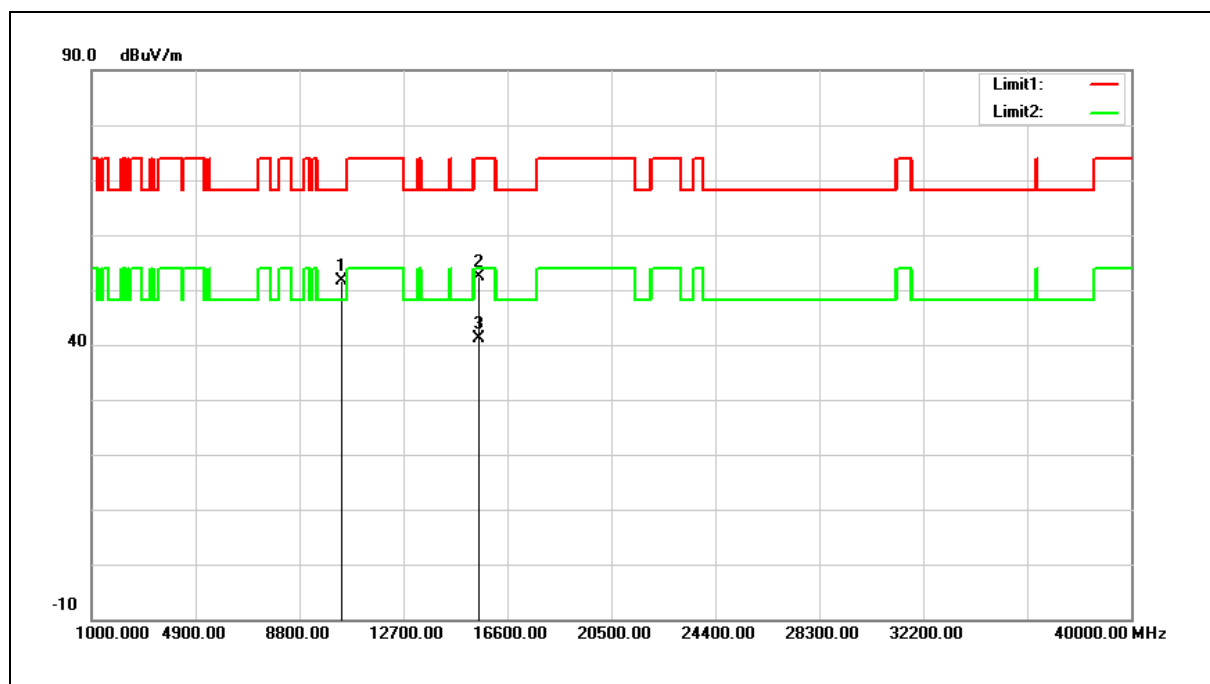
Example: $36.48 = -5.57 + 42.05$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

場強輻射量側 (1 GHz 以上)

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	34.31	17.29	51.60	68.20	-16.60	peak
2	15540.000	31.72	20.75	52.47	74.00	-21.53	peak
3	15540.000	20.50	20.75	41.25	54.00	-12.75	AVG

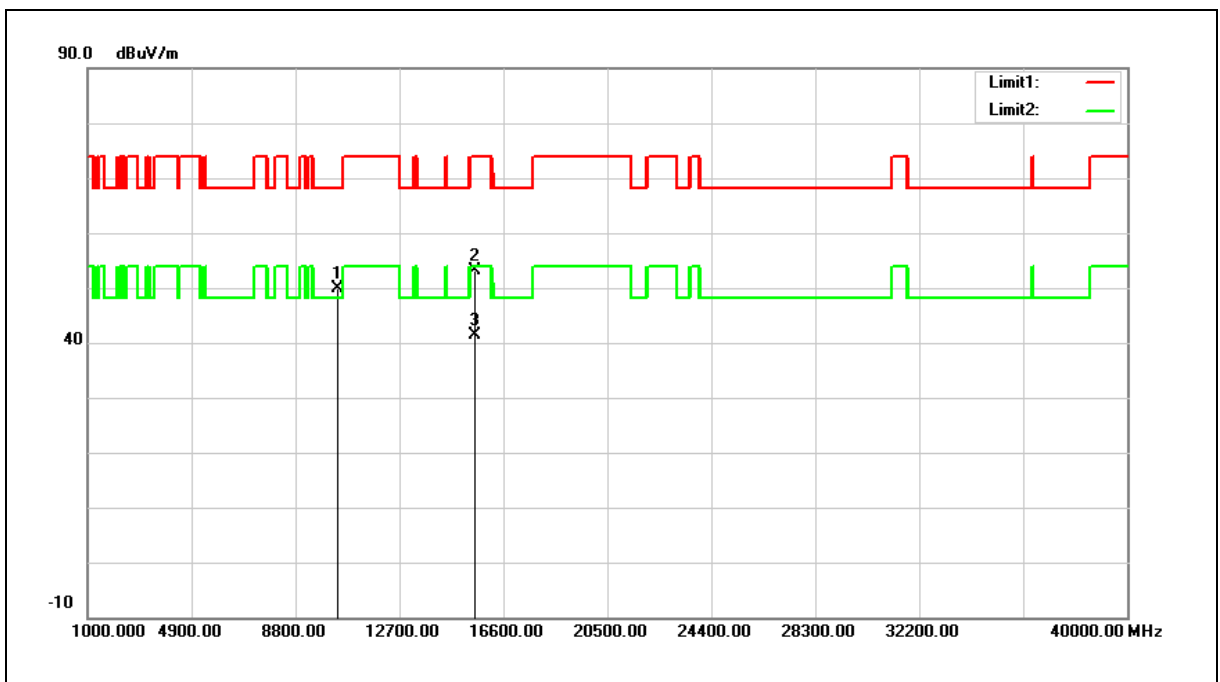
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 51.60 = 17.29 + 34.31

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	32.66	17.29	49.95	68.20	-18.25	peak
2	15540.000	32.36	20.75	53.11	74.00	-20.89	peak
3	15540.000	20.60	20.75	41.35	54.00	-12.65	AVG

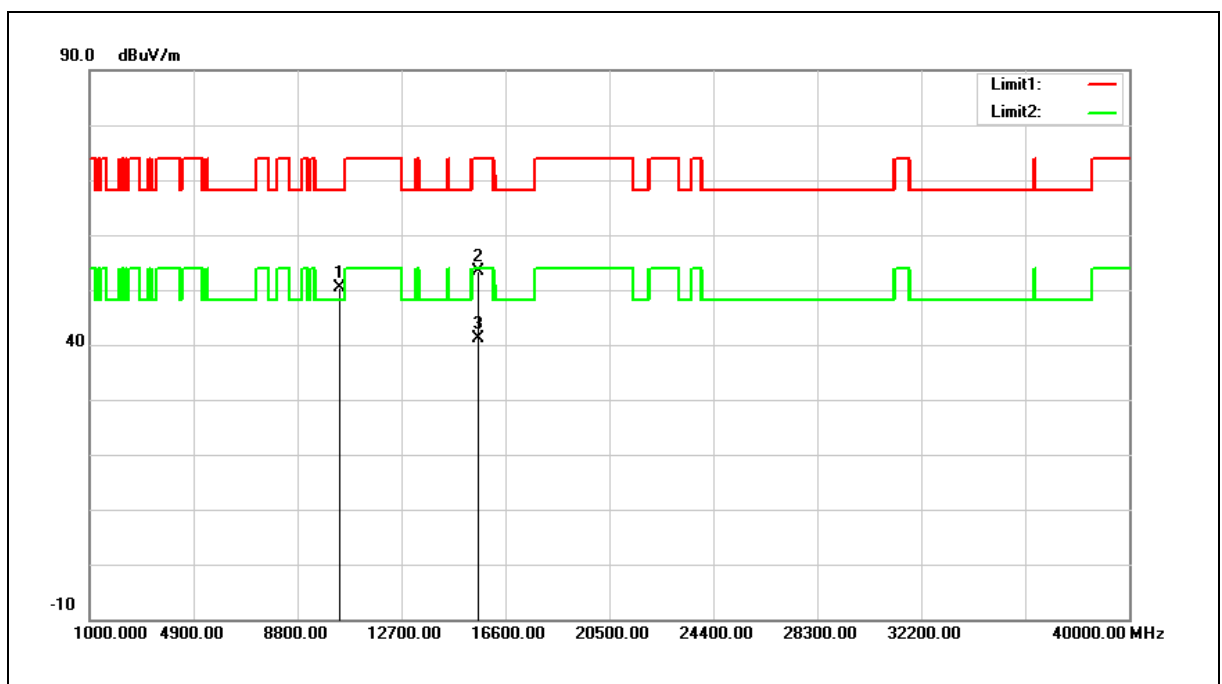
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 49.95 = 17.29 + 32.66

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



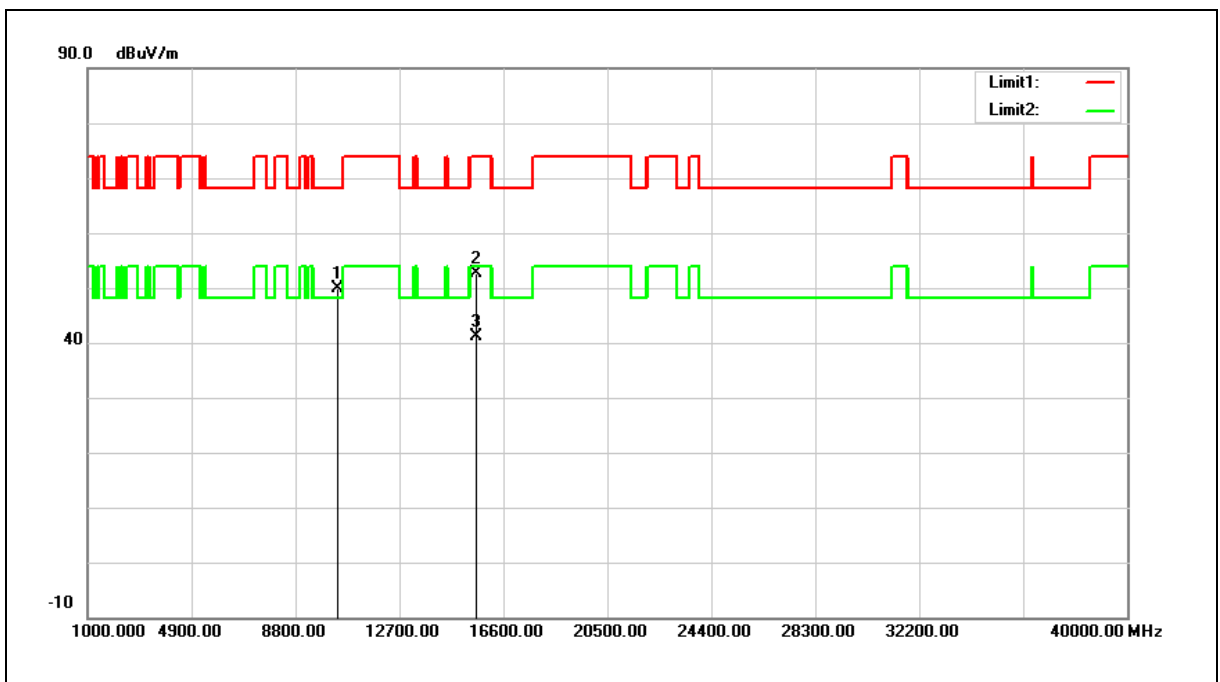
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	33.00	17.40	50.40	68.20	-17.80	peak
2	15600.000	32.83	20.60	53.43	74.00	-20.57	peak
3	15600.000	20.55	20.60	41.15	54.00	-12.85	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5200 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



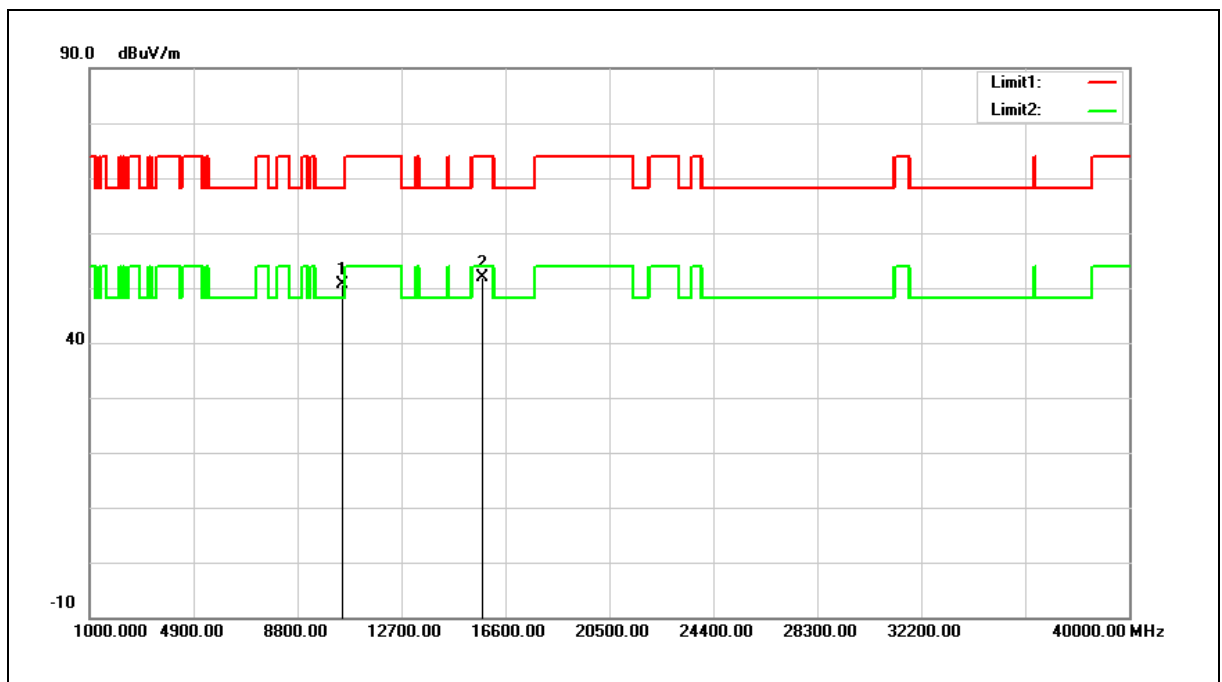
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	32.46	17.40	49.86	68.20	-18.34	peak
2	15600.000	31.97	20.60	52.57	74.00	-21.43	peak
3	15600.000	20.49	20.60	41.09	54.00	-12.91	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



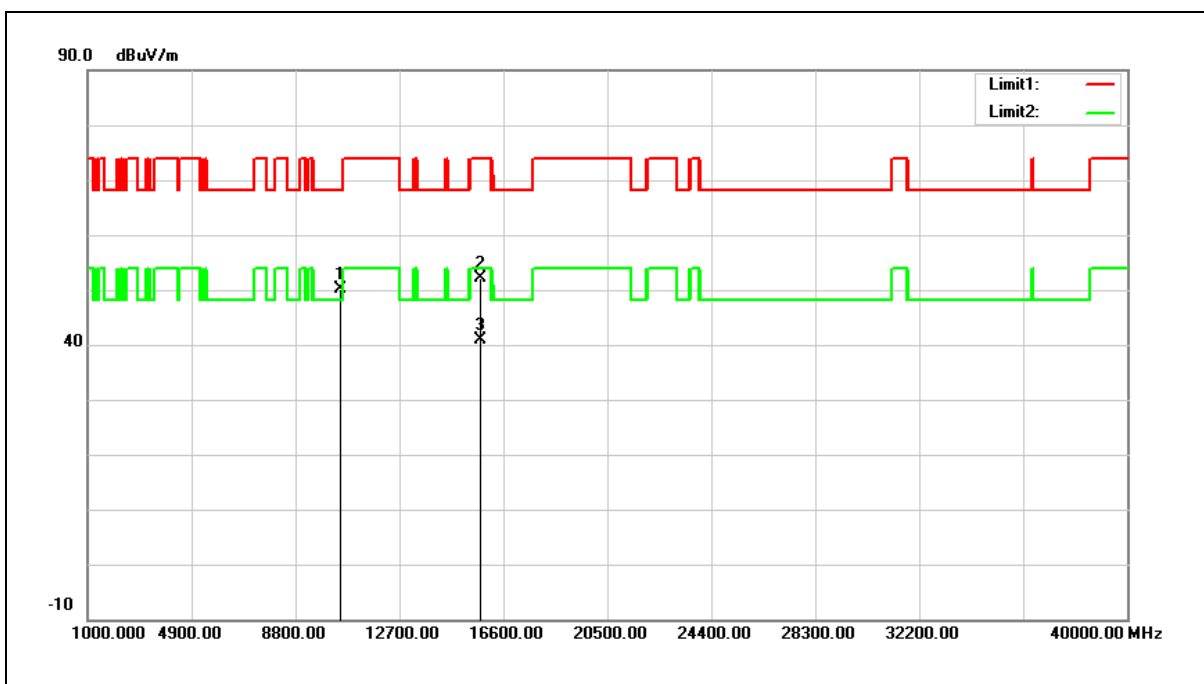
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	32.94	17.64	50.58	68.20	-17.62	peak
2	15720.000	31.65	20.30	51.95	74.00	-22.05	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5240 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



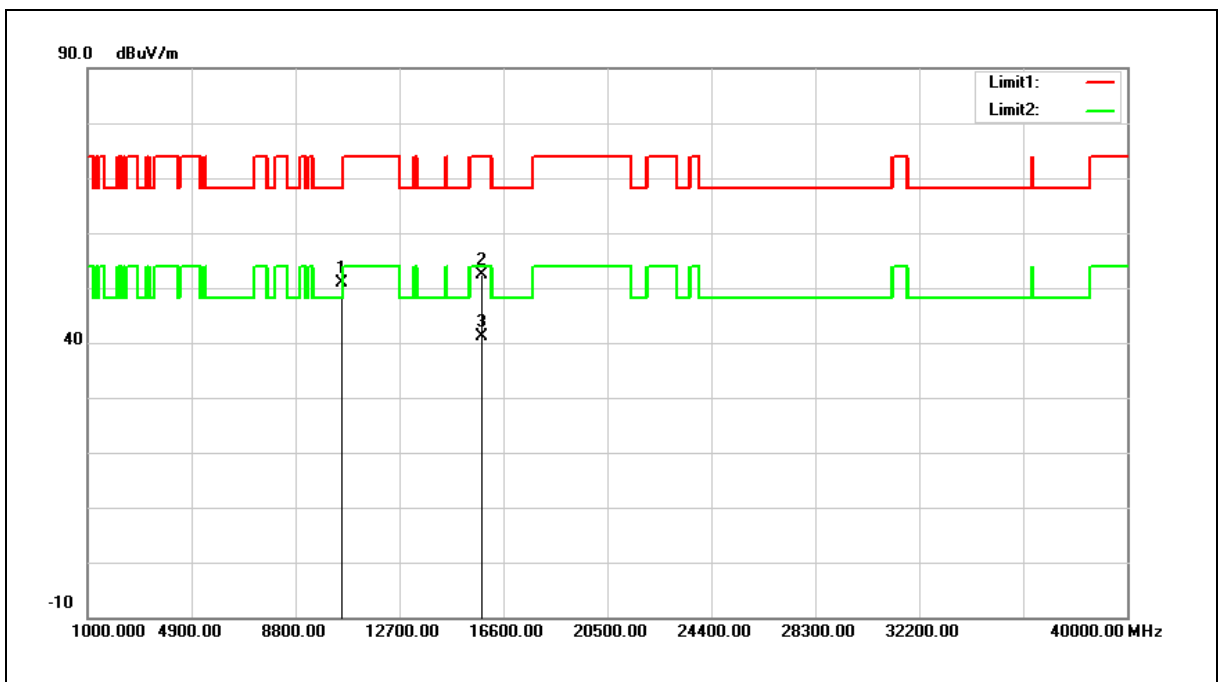
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	32.53	17.64	50.17	68.20	-18.03	peak
2	15720.000	31.72	20.30	52.02	74.00	-21.98	peak
3	15720.000	20.51	20.30	40.81	54.00	-13.19	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5260 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



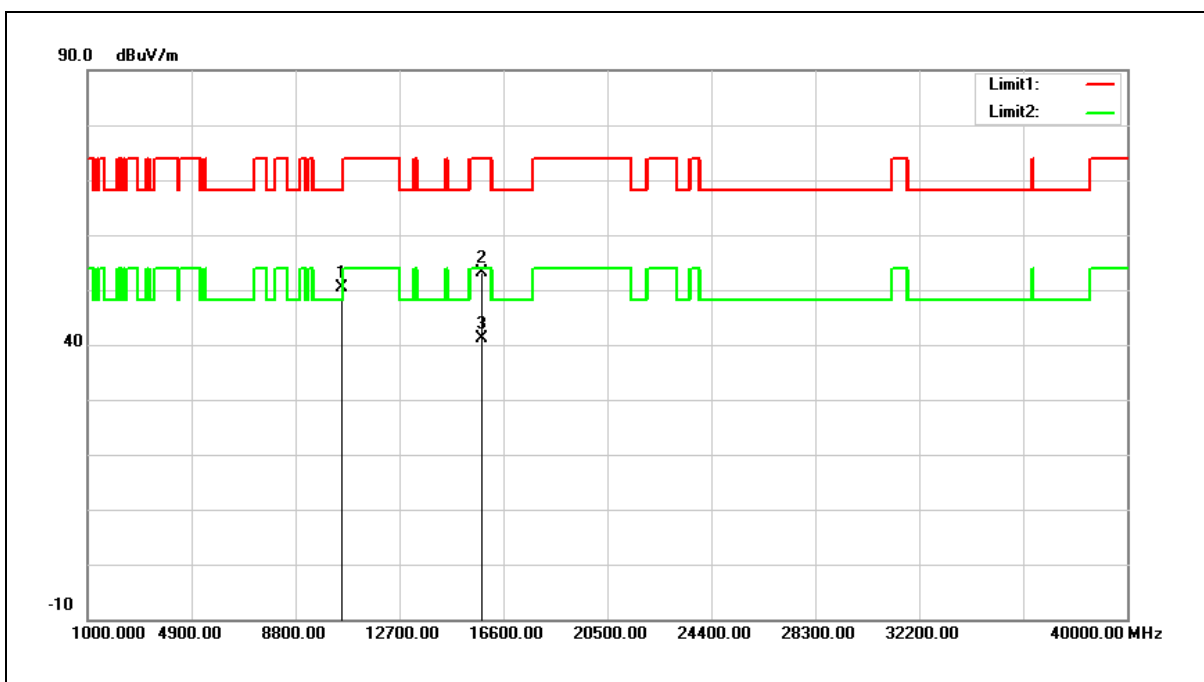
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	33.03	17.74	50.77	68.20	-17.43	peak
2	15780.000	32.20	20.15	52.35	74.00	-21.65	peak
3	15780.000	20.98	20.15	41.13	54.00	-12.87	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5260 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



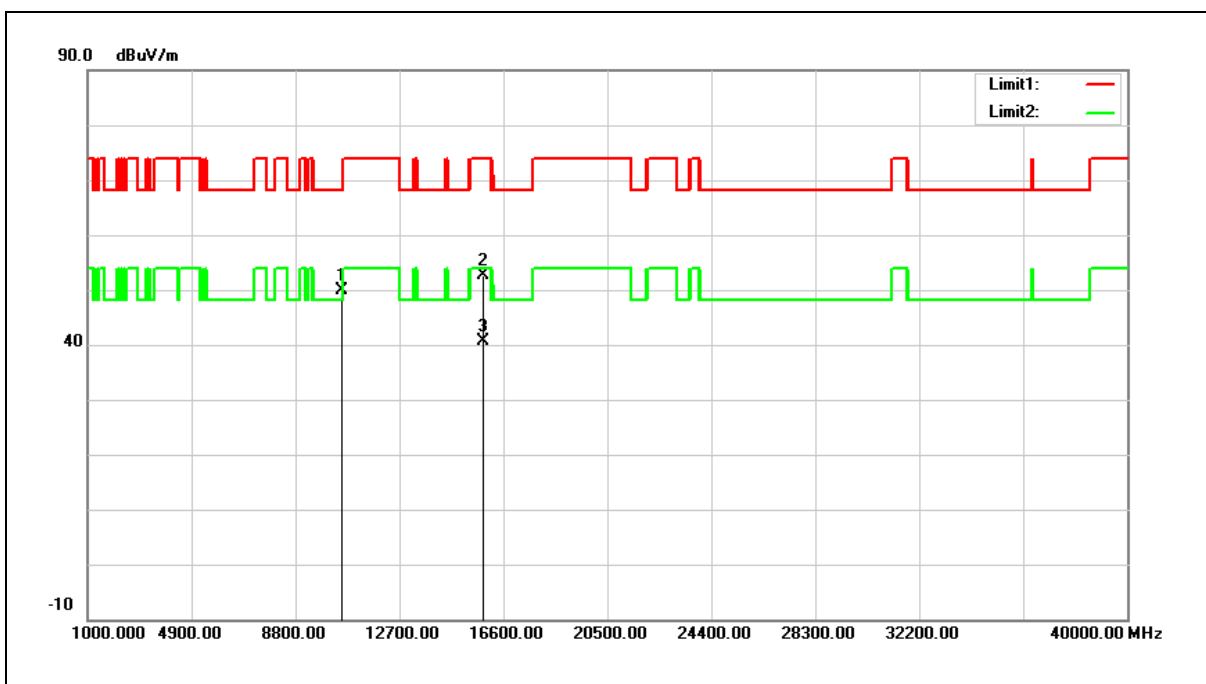
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	32.58	17.74	50.32	68.20	-17.88	peak
2	15780.000	32.86	20.15	53.01	74.00	-20.99	peak
3	15780.000	20.94	20.15	41.09	54.00	-12.91	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5280 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



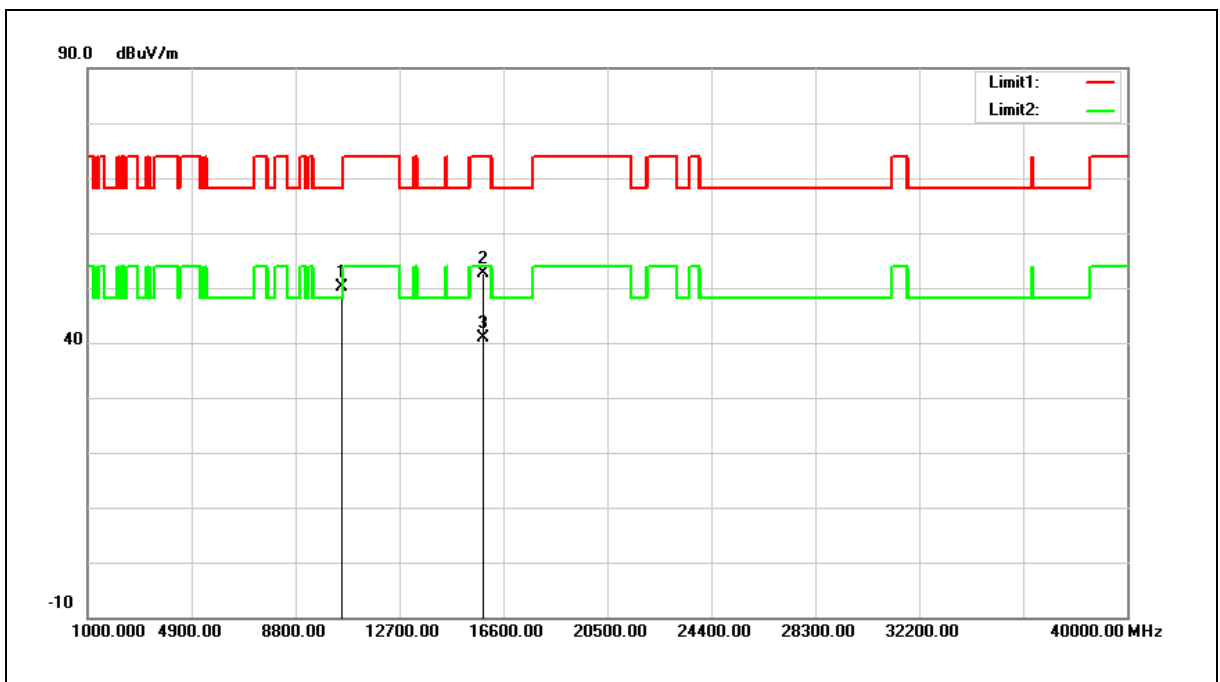
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	32.15	17.81	49.96	68.20	-18.24	peak
2	15840.000	32.63	20.00	52.63	74.00	-21.37	peak
3	15840.000	20.72	20.00	40.72	54.00	-13.28	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5280 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



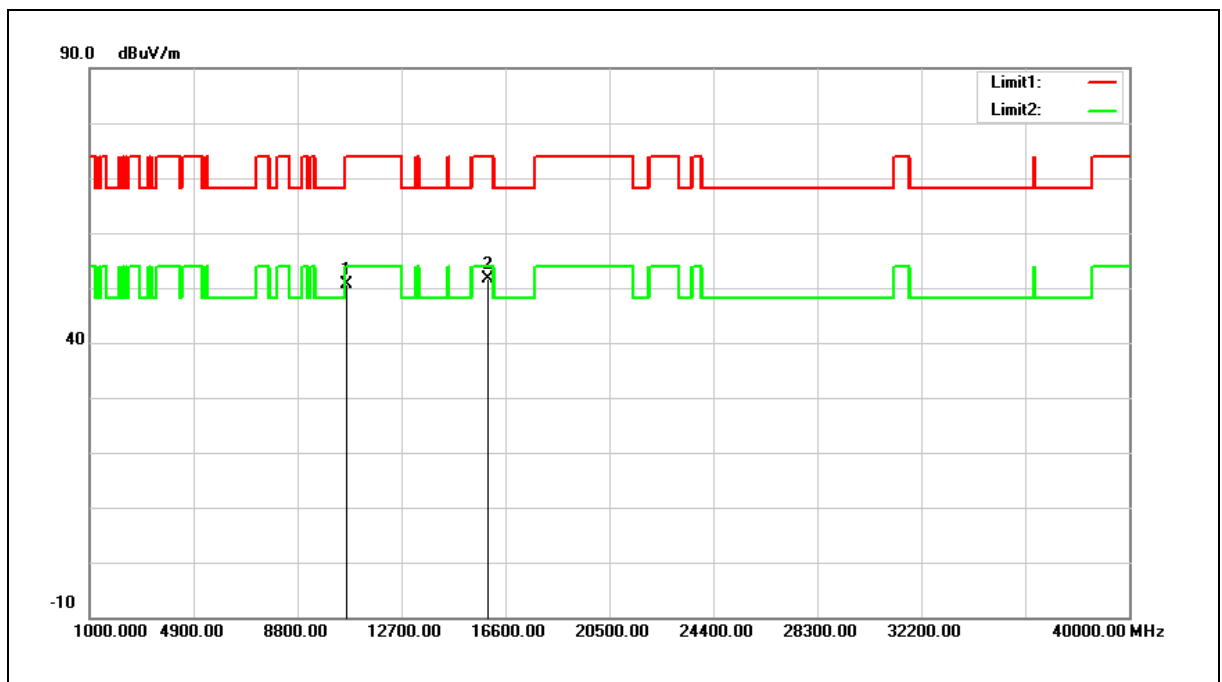
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10560.000	32.34	17.81	50.15	68.20	-18.05	peak
2	15840.000	32.59	20.00	52.59	74.00	-21.41	peak
3	15840.000	20.80	20.00	40.80	54.00	-13.20	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



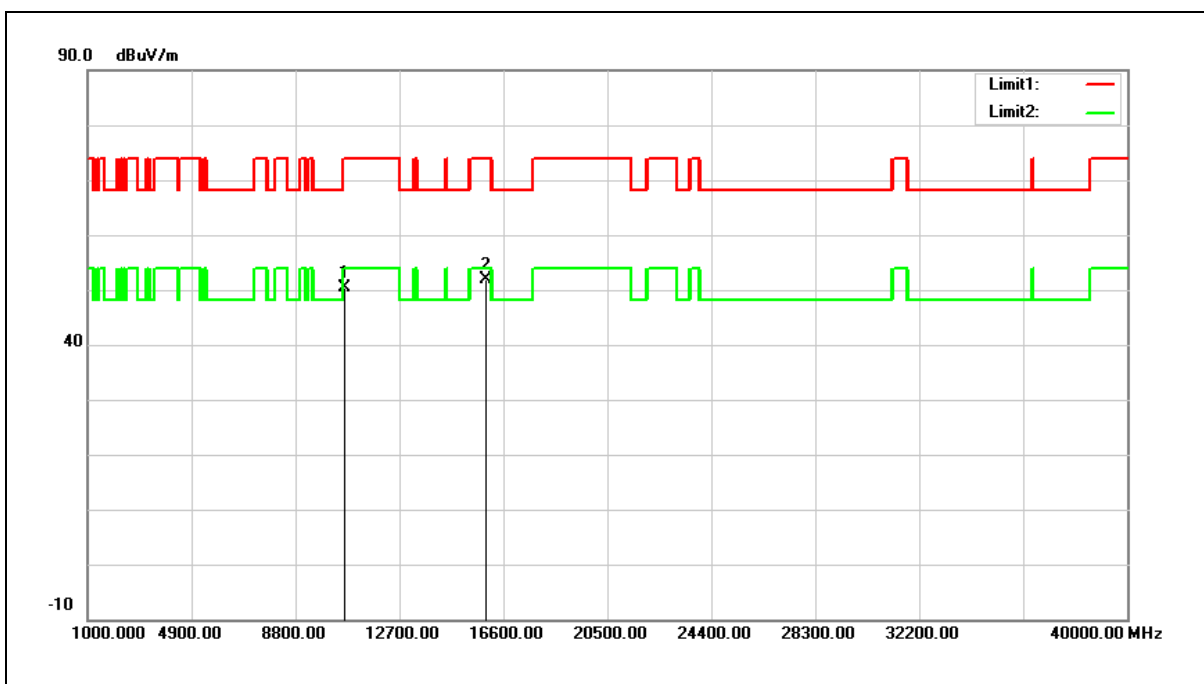
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	32.57	17.96	50.53	74.00	-23.47	peak
2	15960.000	31.93	19.71	51.64	74.00	-22.36	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



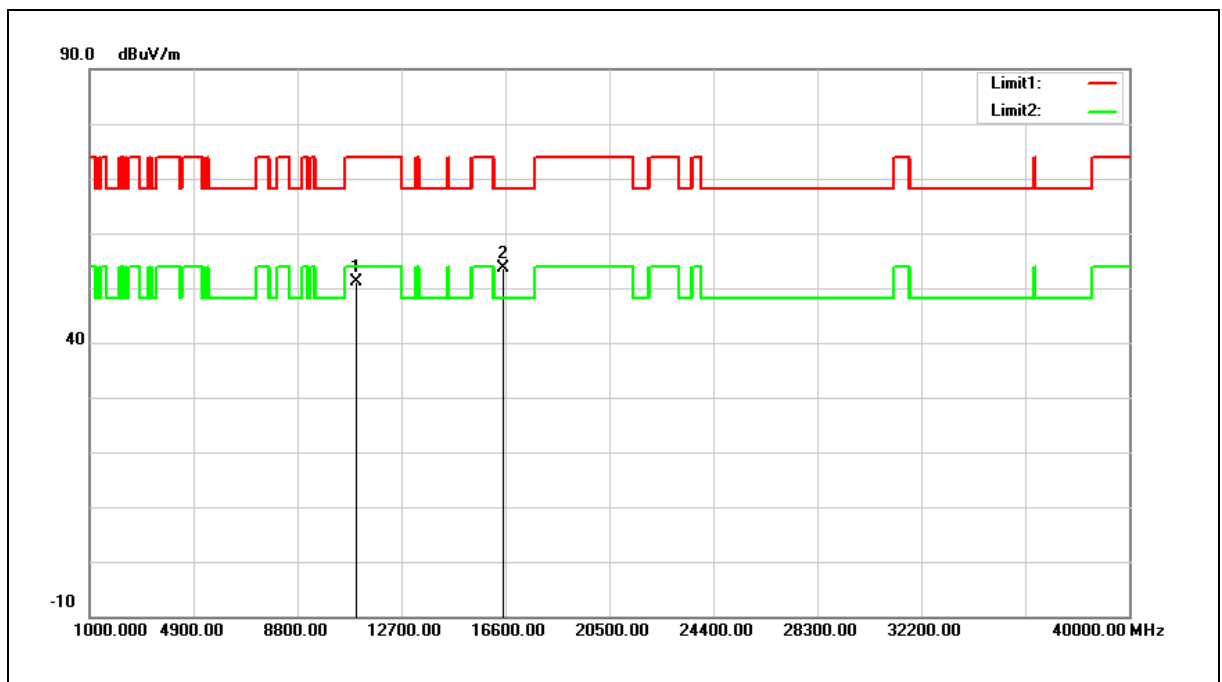
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	32.40	17.96	50.36	74.00	-23.64	peak
2	15960.000	32.23	19.71	51.94	74.00	-22.06	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5500 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



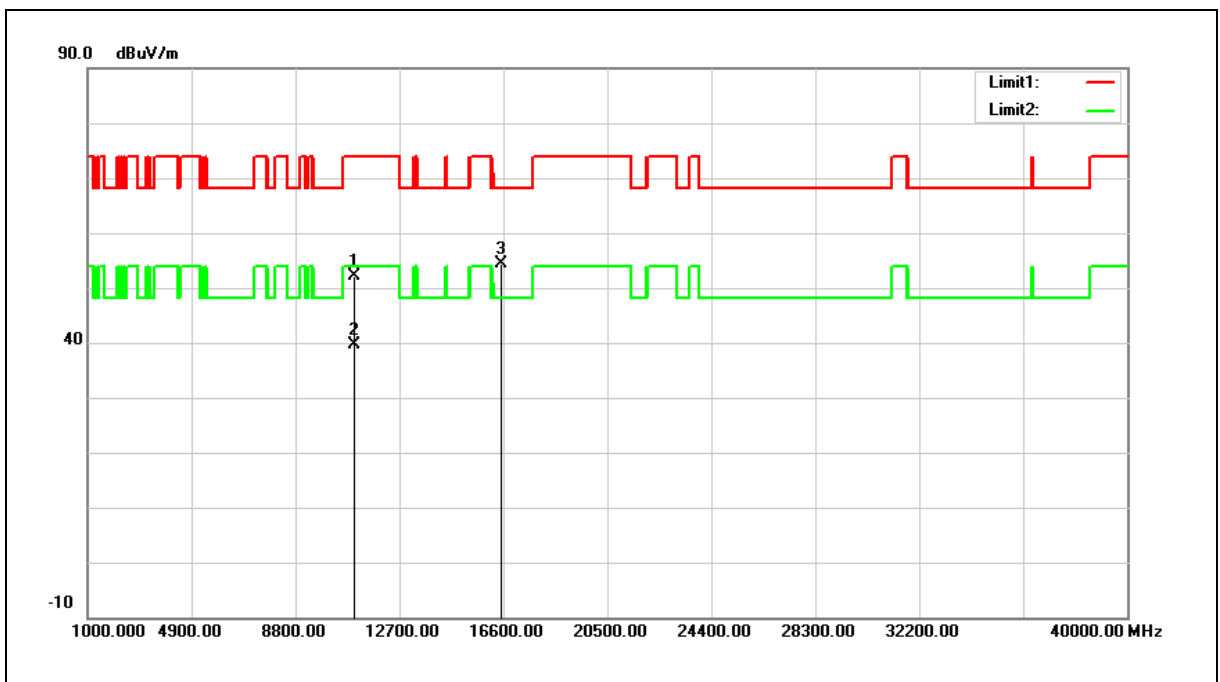
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	32.50	18.63	51.13	74.00	-22.87	peak
2	16500.000	31.87	21.66	53.53	68.20	-14.67	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5500 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



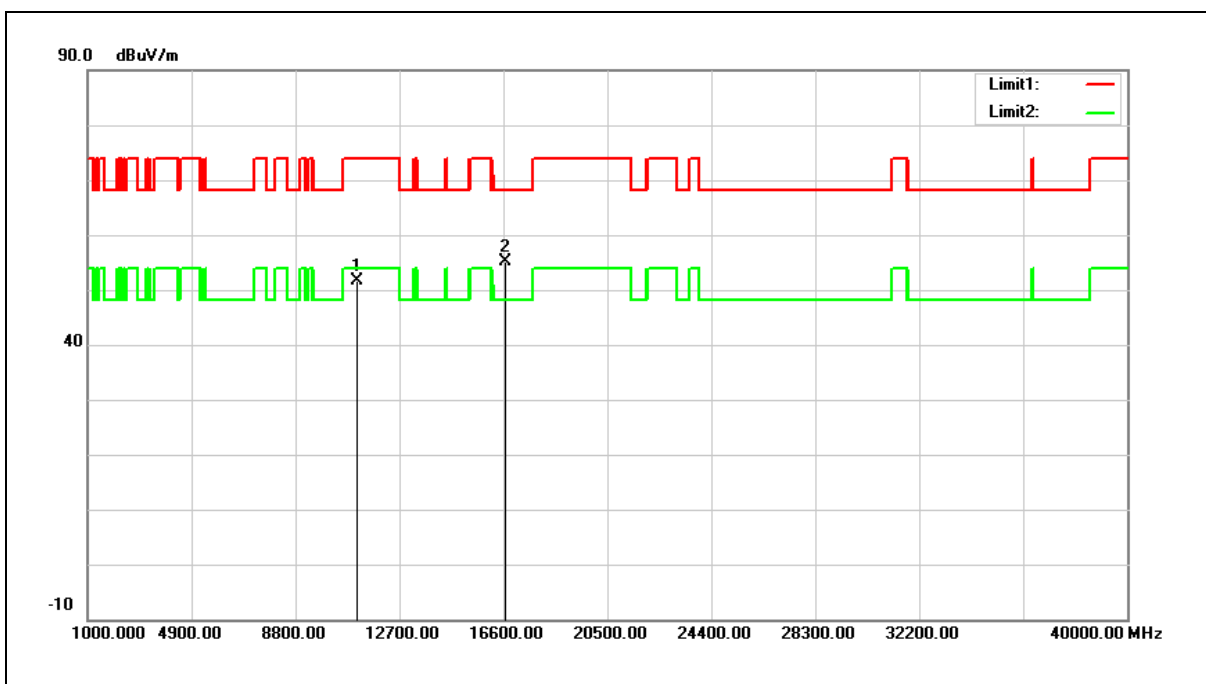
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	33.52	18.63	52.15	74.00	-21.85	peak
2	11000.000	20.96	18.63	39.59	54.00	-14.41	AVG
3	16500.000	32.79	21.66	54.45	68.20	-13.75	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5560 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



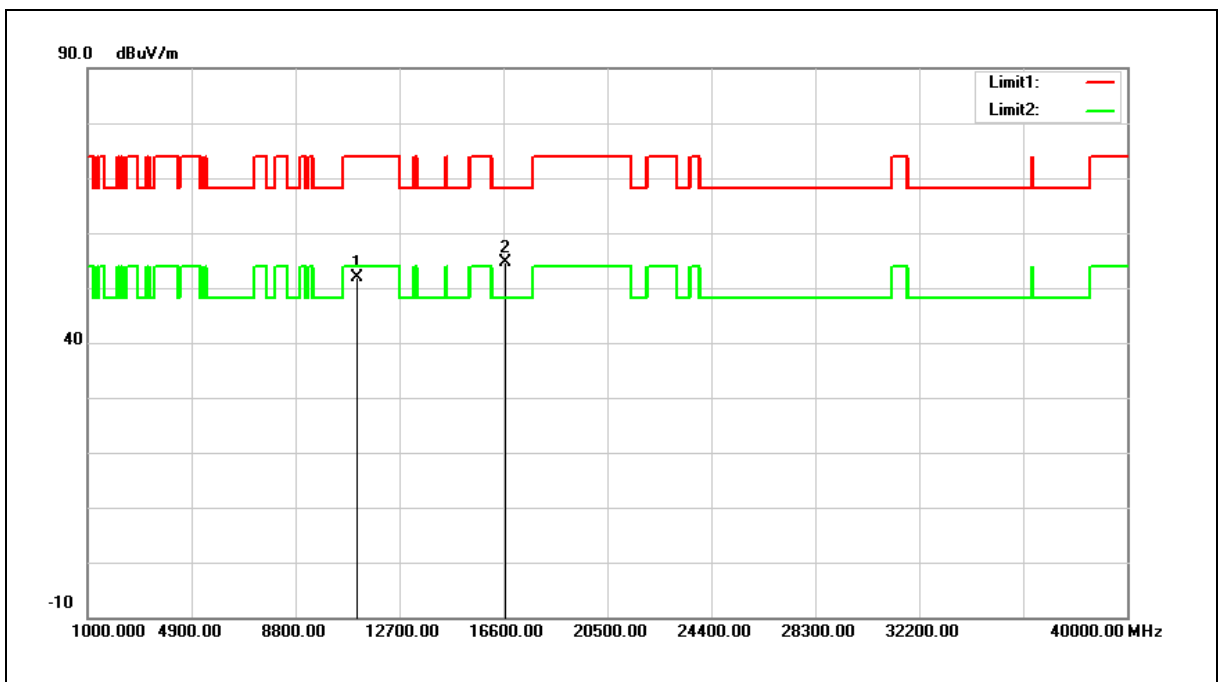
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	32.88	18.83	51.71	74.00	-22.29	peak
2	16680.000	32.44	22.64	55.08	68.20	-13.12	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5560 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



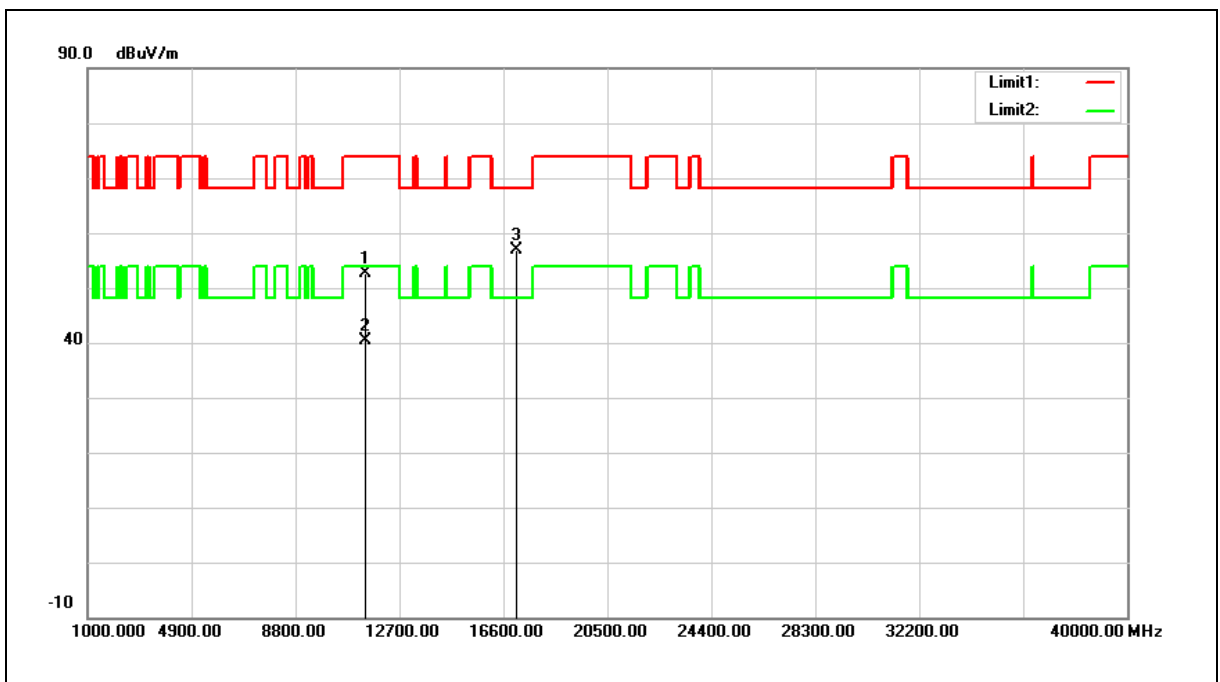
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11120.000	33.11	18.83	51.94	74.00	-22.06	peak
2	16680.000	32.11	22.64	54.75	68.20	-13.45	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5700 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



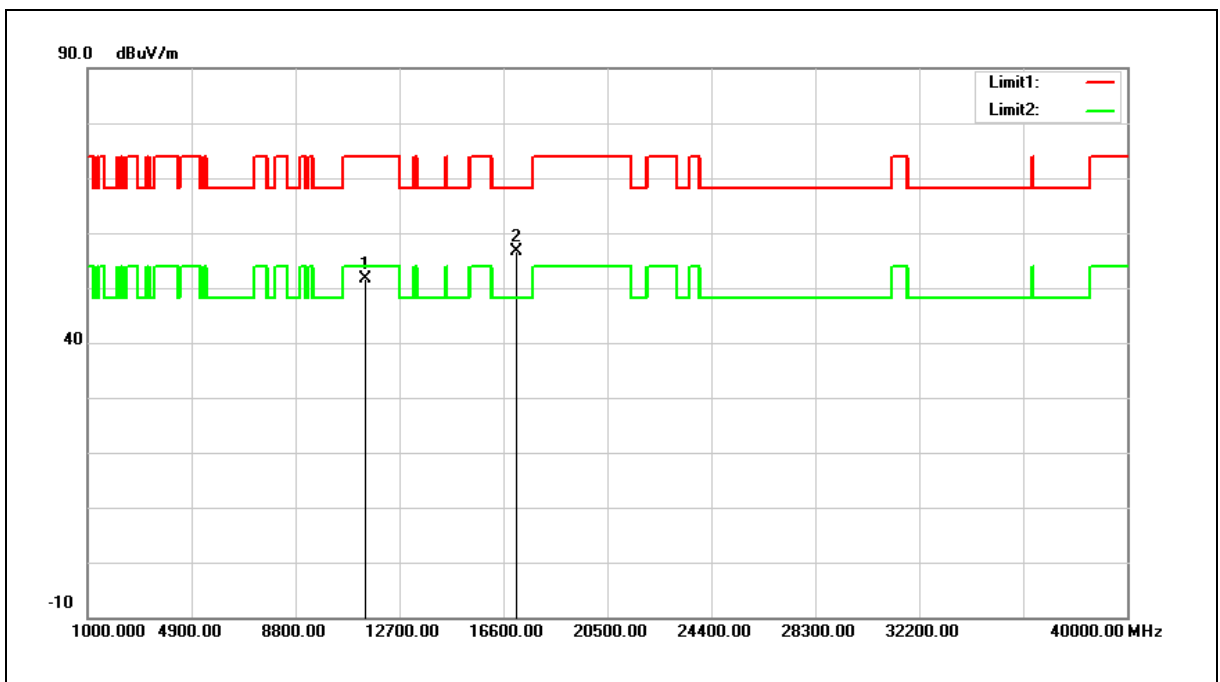
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	33.39	19.30	52.69	74.00	-21.31	peak
2	11400.000	21.19	19.30	40.49	54.00	-13.51	AVG
3	17100.000	32.27	24.65	56.92	68.20	-11.28	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5700 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



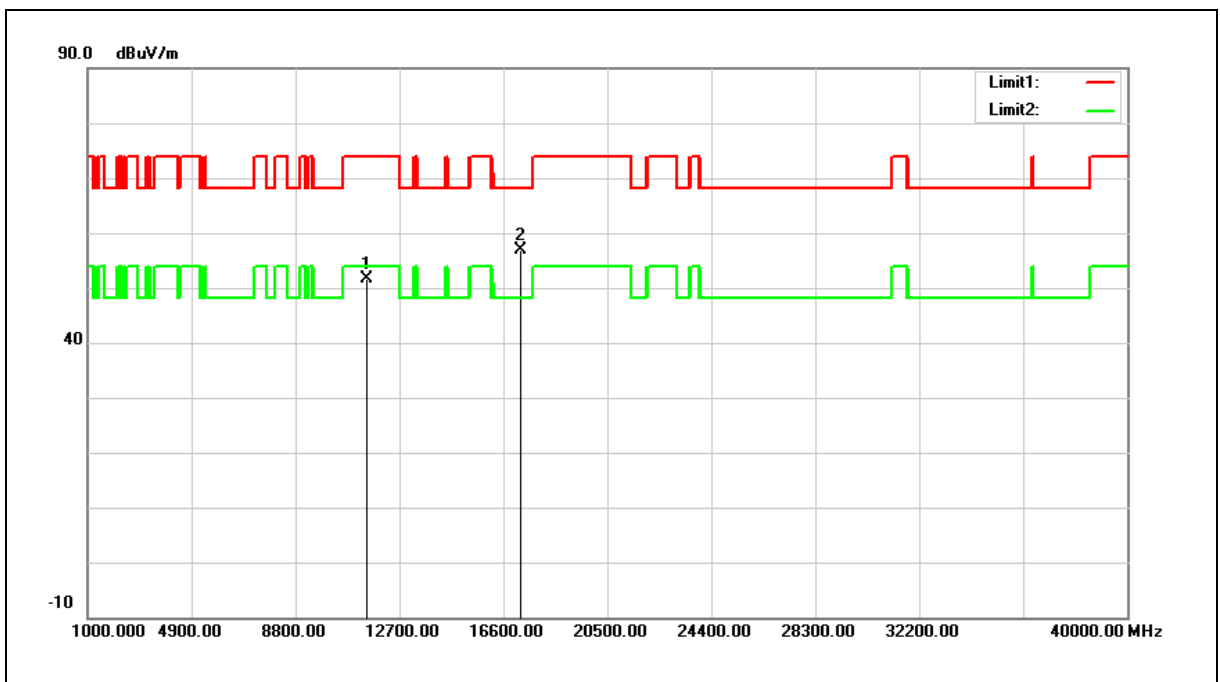
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	32.26	19.30	51.56	74.00	-22.44	peak
2	17100.000	32.09	24.65	56.74	68.20	-11.46	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



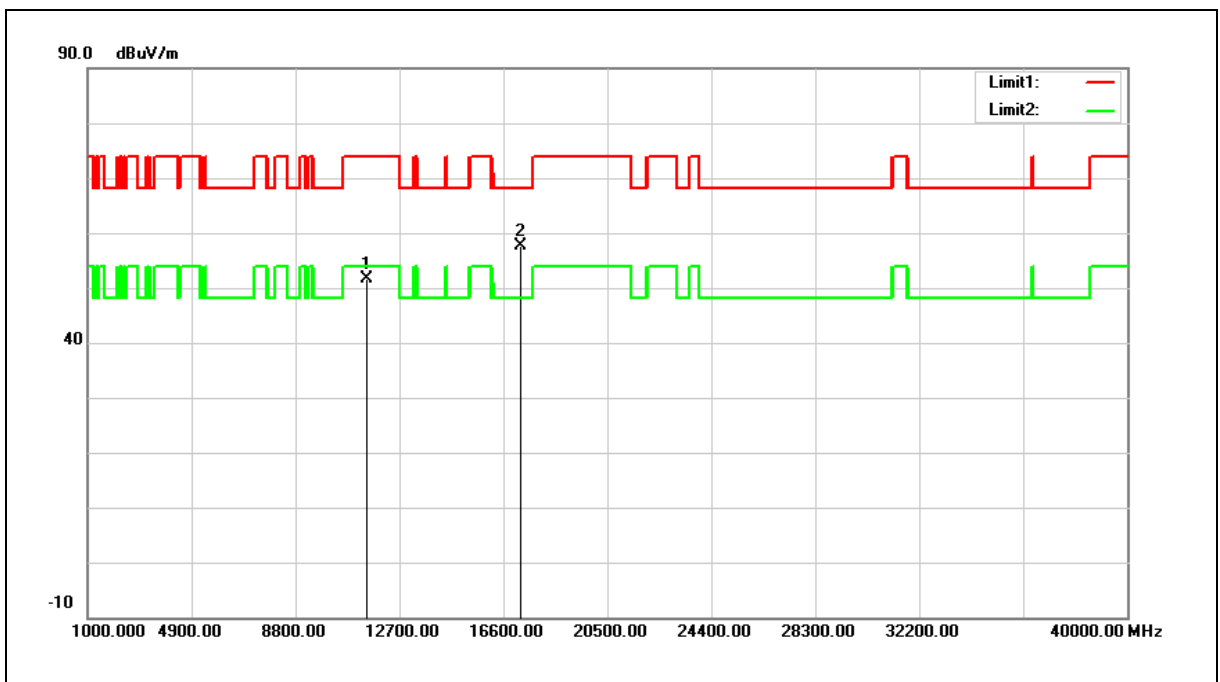
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.12	19.45	51.57	74.00	-22.43	peak
2	17235.000	31.92	25.01	56.93	68.20	-11.27	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



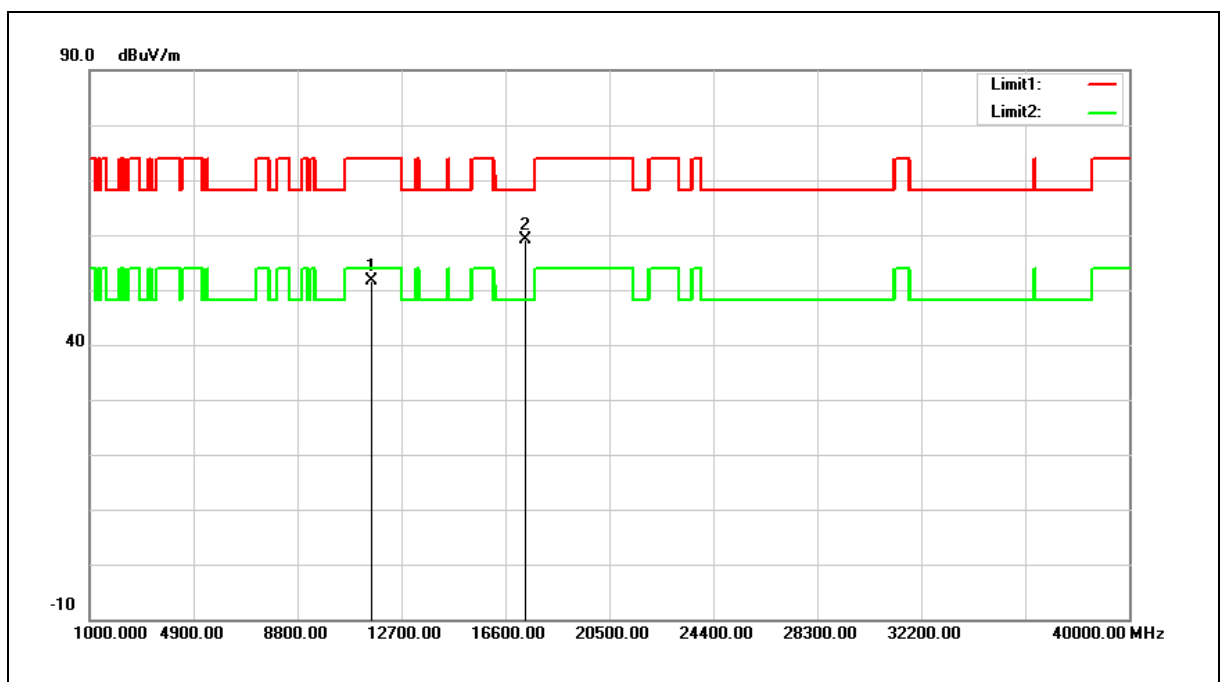
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	32.08	19.45	51.53	74.00	-22.47	peak
2	17235.000	32.55	25.01	57.56	68.20	-10.64	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



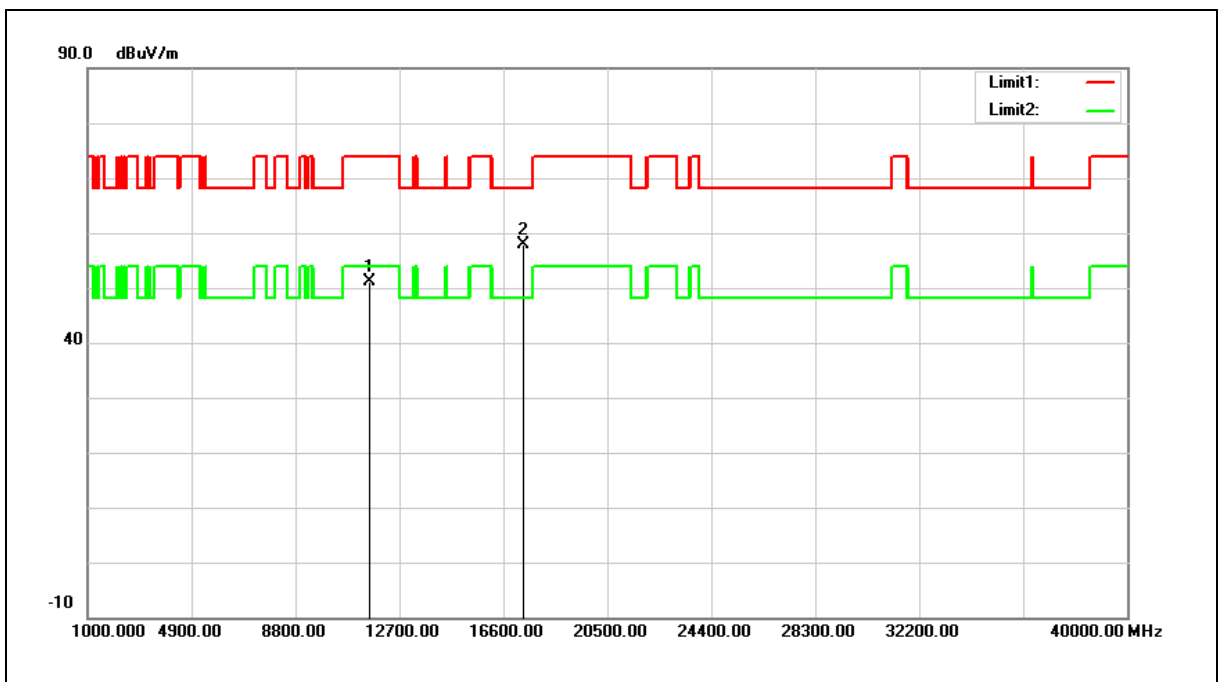
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	32.36	19.39	51.75	74.00	-22.25	peak
2	17355.000	33.81	25.34	59.15	68.20	-9.05	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5785 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



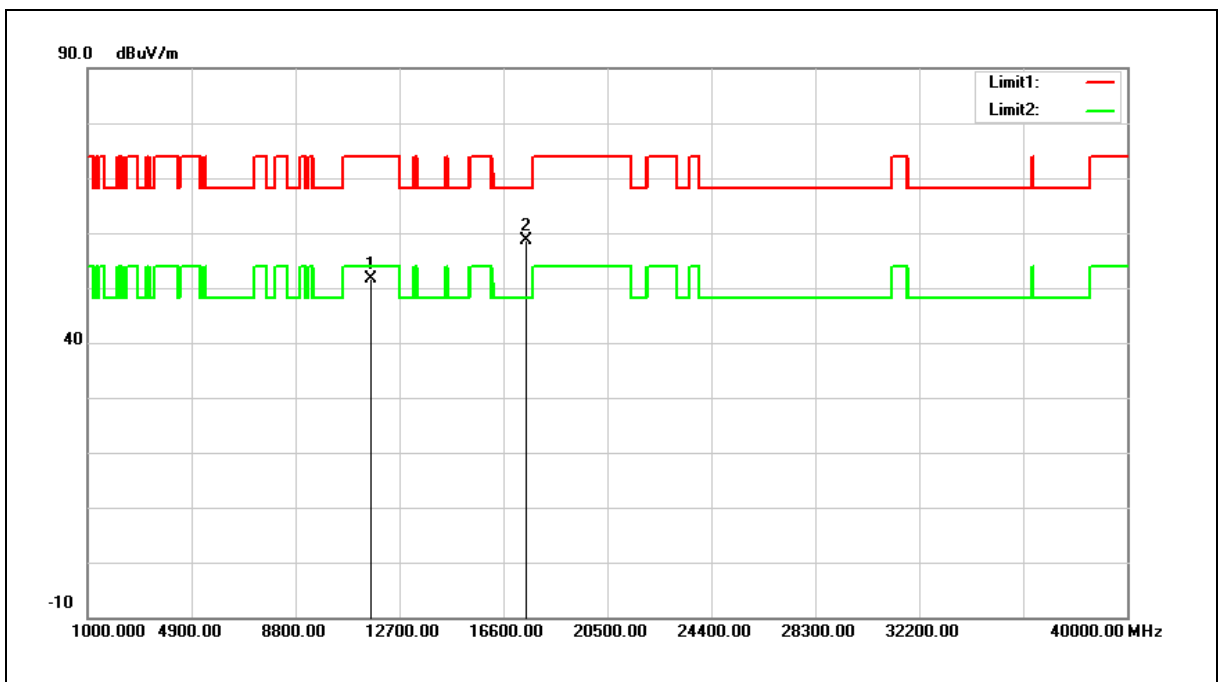
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	31.65	19.39	51.04	74.00	-22.96	peak
2	17355.000	32.50	25.34	57.84	68.20	-10.36	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



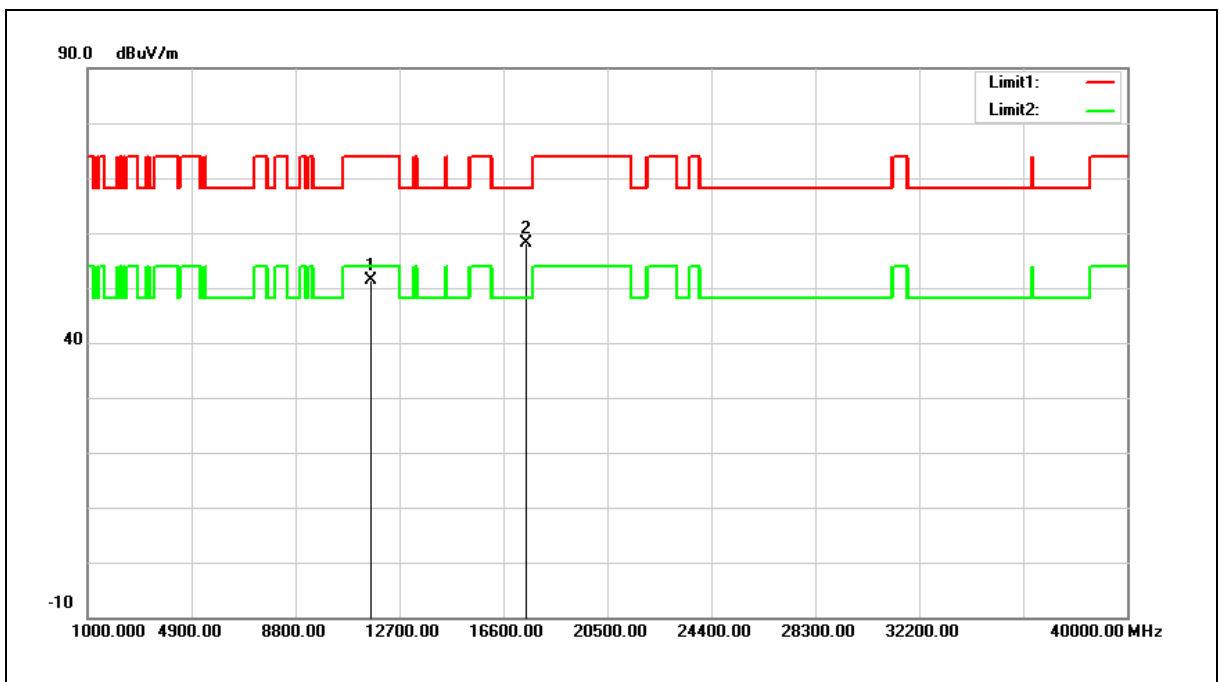
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	32.37	19.32	51.69	74.00	-22.31	peak
2	17475.000	32.87	25.65	58.52	68.20	-9.68	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



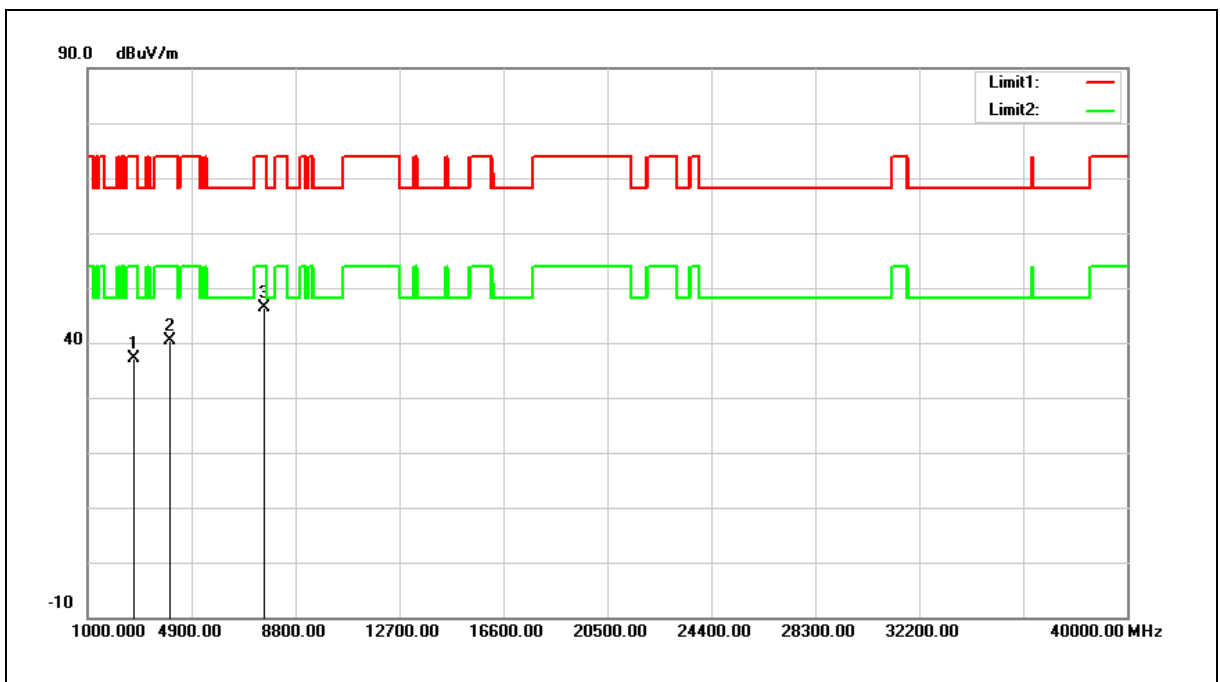
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	32.10	19.32	51.42	74.00	-22.58	peak
2	17475.000	32.38	25.65	58.03	68.20	-10.17	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Mode:	Mode 3	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Horizontal		
Description:			



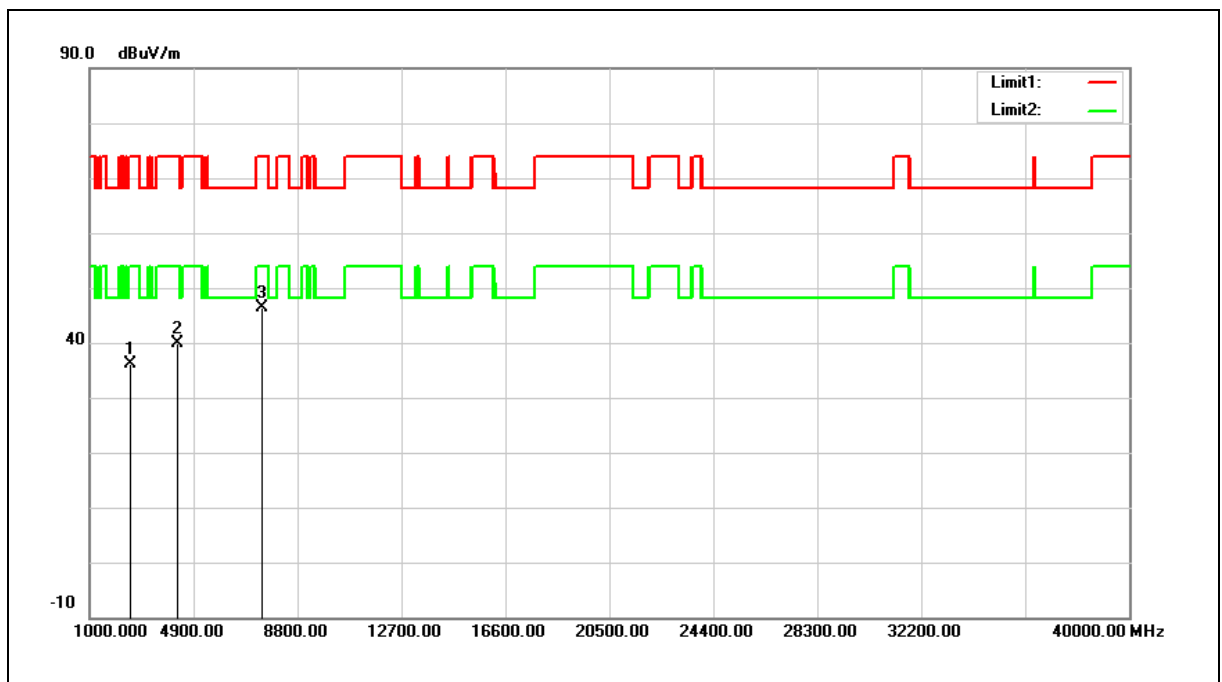
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2717.000	36.88	0.32	37.20	74.00	-36.80	peak
2	4094.000	36.17	4.20	40.37	74.00	-33.63	peak
3	7647.000	32.79	13.69	46.48	74.00	-27.52	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	AC 110 V/60 Hz
Mode:	Mode 3	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Vertical		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2530.000	36.46	-0.23	36.23	74.00	-37.77	peak
2	4281.000	35.25	4.55	39.80	74.00	-34.20	peak
3	7494.000	33.09	13.36	46.45	74.00	-27.55	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

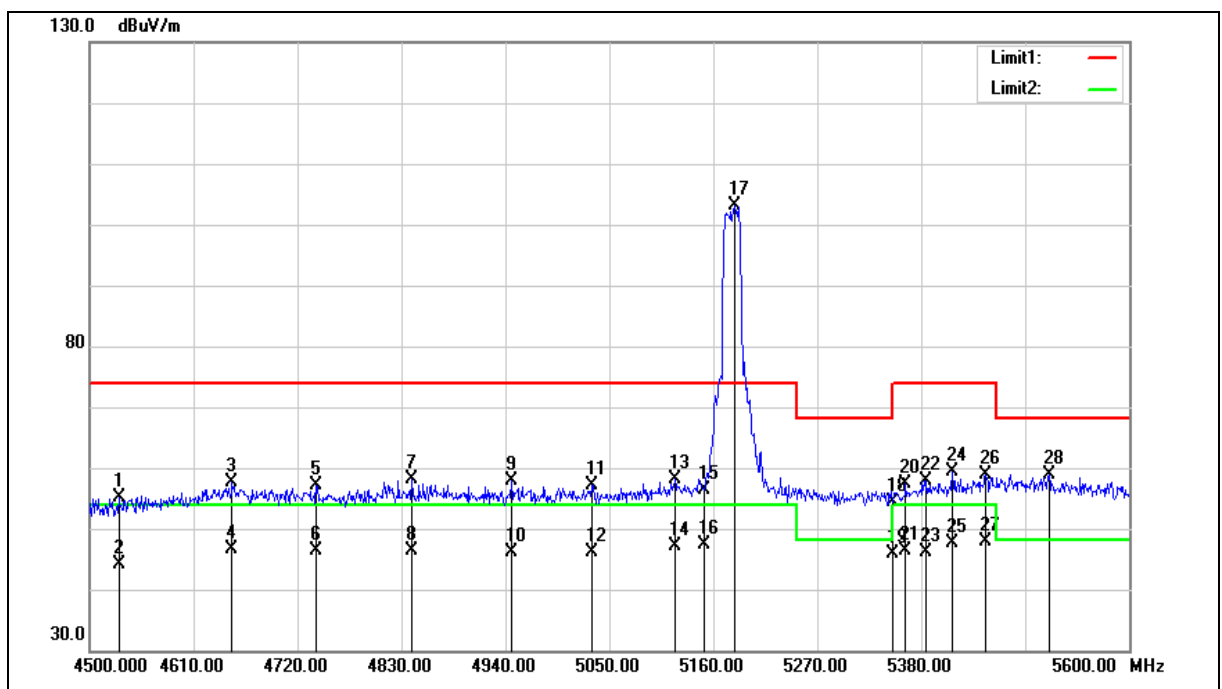
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

頻帶邊緣

附註：其上下邊緣落於低功率射頻電機第 2.7 節所列頻帶內之混附發射，其電場強度必須符合第 2.8 節的限制規定。

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4530.800	50.08	5.07	55.15	74.00	-18.85	peak
2	4530.800	39.14	5.07	44.21	54.00	-9.79	AVG
3	4650.700	52.15	5.44	57.59	74.00	-16.41	peak
4	4650.700	41.09	5.44	46.53	54.00	-7.47	AVG
5	4739.800	51.53	5.72	57.25	74.00	-16.75	peak
6	4739.800	40.64	5.72	46.36	54.00	-7.64	AVG
7	4841.000	52.20	6.02	58.22	74.00	-15.78	peak
8	4841.000	40.39	6.02	46.41	54.00	-7.59	AVG
9	4946.600	51.47	6.34	57.81	74.00	-16.19	peak
10	4946.600	39.90	6.34	46.24	54.00	-7.76	AVG
11	5031.300	50.56	6.60	57.16	74.00	-16.84	peak
12	5031.300	39.53	6.60	46.13	54.00	-7.87	AVG
13	5119.300	51.33	6.84	58.17	74.00	-15.83	peak
14	5119.300	40.23	6.84	47.07	54.00	-6.93	AVG
15	5150.000	49.37	6.94	56.31	74.00	-17.69	peak
16	5150.000	40.48	6.94	47.42	54.00	-6.58	AVG
17	5183.100	96.20	7.03	103.23	--	--	peak
18	5350.000	46.99	7.50	54.49	74.00	-19.51	peak
19	5350.000	38.35	7.50	45.85	54.00	-8.15	AVG
20	5363.500	49.84	7.53	57.37	74.00	-16.63	peak
21	5363.500	38.90	7.53	46.43	54.00	-7.57	AVG
22	5385.500	50.37	7.61	57.98	74.00	-16.02	peak
23	5385.500	38.43	7.61	46.04	54.00	-7.96	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

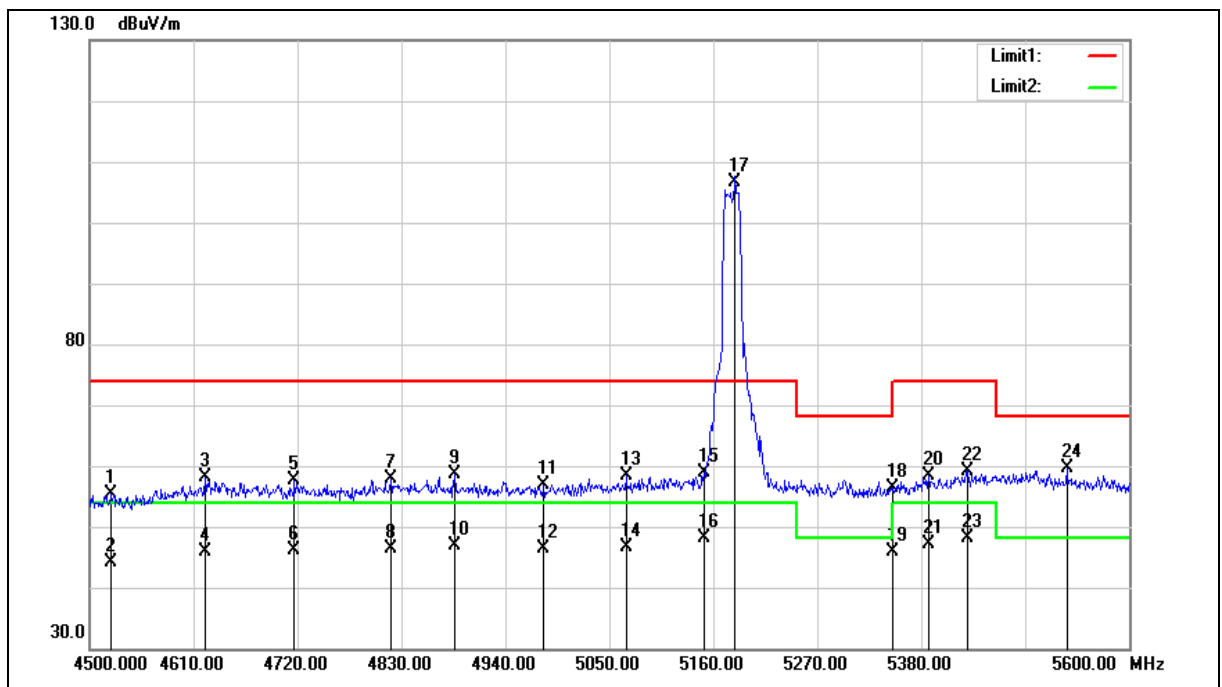
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	5413.000	51.75	7.68	59.43	74.00	-14.57	peak
25	5413.000	39.86	7.68	47.54	54.00	-6.46	AVG
26	5448.200	51.07	7.79	58.86	74.00	-15.14	peak
27	5448.200	40.16	7.79	47.95	54.00	-6.05	AVG
28	5515.300	50.97	7.96	58.93	68.20	-9.27	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5180 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

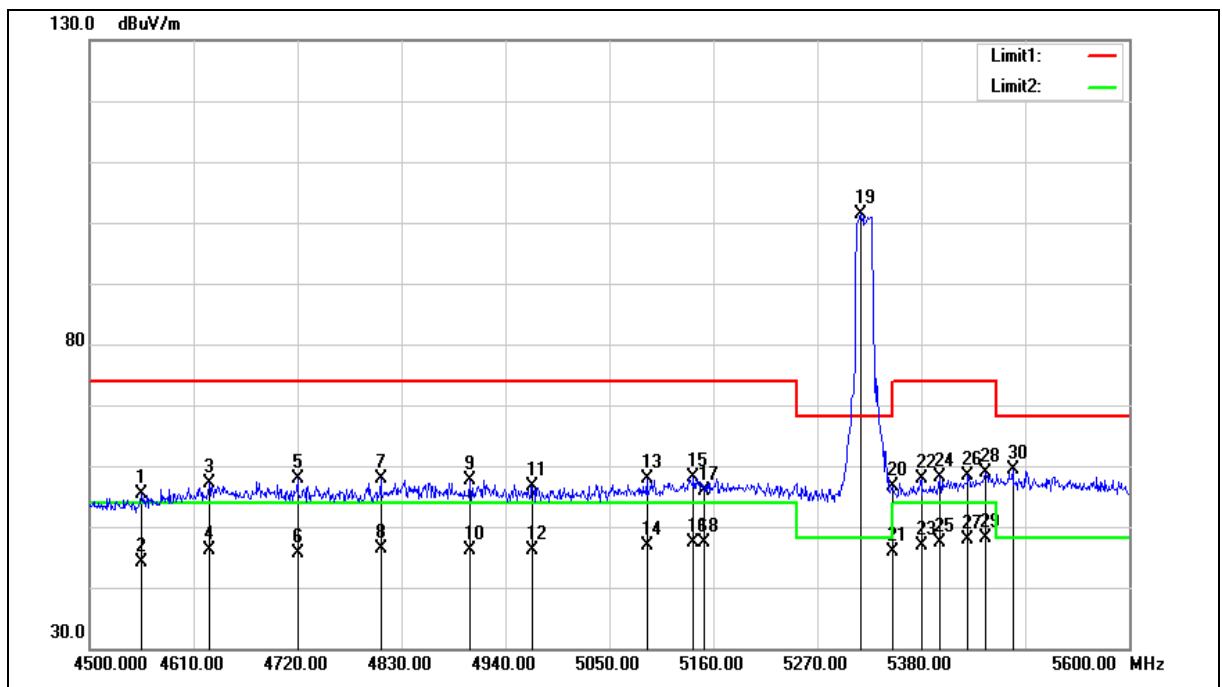
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4523.100	50.27	5.05	55.32	74.00	-18.68	peak
2	4523.100	39.02	5.05	44.07	54.00	-9.93	AVG
3	4622.100	52.74	5.36	58.10	74.00	-15.90	peak
4	4622.100	40.60	5.36	45.96	54.00	-8.04	AVG
5	4716.700	51.87	5.64	57.51	74.00	-16.49	peak
6	4716.700	40.47	5.64	46.11	54.00	-7.89	AVG
7	4819.000	51.96	5.95	57.91	74.00	-16.09	peak
8	4819.000	40.44	5.95	46.39	54.00	-7.61	AVG
9	4886.100	52.46	6.16	58.62	74.00	-15.38	peak
10	4886.100	40.71	6.16	46.87	54.00	-7.13	AVG
11	4980.700	50.38	6.46	56.84	74.00	-17.16	peak
12	4980.700	39.84	6.46	46.30	54.00	-7.70	AVG
13	5067.600	51.61	6.70	58.31	74.00	-15.69	peak
14	5067.600	39.89	6.70	46.59	54.00	-7.41	AVG
15	5150.000	51.88	6.94	58.82	74.00	-15.18	peak
16	5150.000	41.31	6.94	48.25	54.00	-5.75	AVG
17	5183.100	99.69	7.03	106.72	--	--	peak
18	5350.000	49.00	7.50	56.50	74.00	-17.50	peak
19	5350.000	38.35	7.50	45.85	54.00	-8.15	AVG
20	5387.700	50.68	7.62	58.30	74.00	-15.70	peak
21	5387.700	39.42	7.62	47.04	54.00	-6.96	AVG
22	5428.400	51.38	7.73	59.11	74.00	-14.89	peak
23	5428.400	40.29	7.73	48.02	54.00	-5.98	AVG
24	5534.000	51.54	7.99	59.53	68.20	-8.67	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4555.000	50.14	5.15	55.29	74.00	-18.71	peak
2	4555.000	39.05	5.15	44.20	54.00	-9.80	AVG
3	4626.500	51.76	5.37	57.13	74.00	-16.87	peak
4	4626.500	40.83	5.37	46.20	54.00	-7.80	AVG
5	4720.000	52.28	5.65	57.93	74.00	-16.07	peak
6	4720.000	40.09	5.65	45.74	54.00	-8.26	AVG
7	4808.000	51.89	5.93	57.82	74.00	-16.18	peak
8	4808.000	40.44	5.93	46.37	54.00	-7.63	AVG
9	4902.600	51.44	6.21	57.65	74.00	-16.35	peak
10	4902.600	40.02	6.21	46.23	54.00	-7.77	AVG
11	4968.600	50.21	6.41	56.62	74.00	-17.38	peak
12	4968.600	39.65	6.41	46.06	54.00	-7.94	AVG
13	5089.600	51.07	6.76	57.83	74.00	-16.17	peak
14	5089.600	40.04	6.76	46.80	54.00	-7.20	AVG
15	5139.100	51.11	6.91	58.02	74.00	-15.98	peak
16	5139.100	40.49	6.91	47.40	54.00	-6.60	AVG
17	5150.000	48.89	6.94	55.83	74.00	-18.17	peak
18	5150.000	40.34	6.94	47.28	54.00	-6.72	AVG
19	5316.200	93.86	7.41	101.27	--	--	peak
20	5350.000	49.23	7.50	56.73	74.00	-17.27	peak
21	5350.000	38.48	7.50	45.98	54.00	-8.02	AVG
22	5380.000	50.26	7.59	57.85	74.00	-16.15	peak
23	5380.000	39.19	7.59	46.78	54.00	-7.22	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

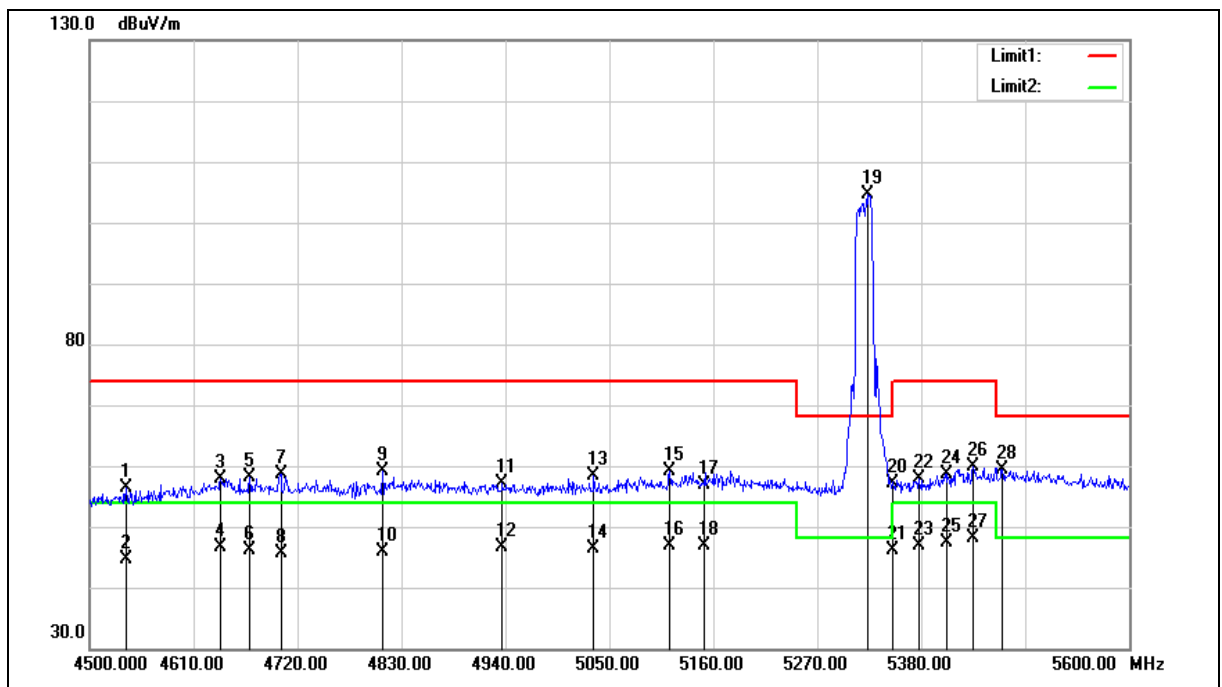
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	5399.800	50.53	7.65	58.18	74.00	-15.82	peak
25	5399.800	39.63	7.65	47.28	54.00	-6.72	AVG
26	5429.500	50.58	7.73	58.31	74.00	-15.69	peak
27	5429.500	40.10	7.73	47.83	54.00	-6.17	AVG
28	5448.200	51.13	7.79	58.92	74.00	-15.08	peak
29	5448.200	40.24	7.79	48.03	54.00	-5.97	AVG
30	5476.800	51.61	7.87	59.48	68.20	-8.72	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4538.500	51.17	5.10	56.27	74.00	-17.73	peak
2	4538.500	39.49	5.10	44.59	54.00	-9.41	AVG
3	4638.600	52.49	5.40	57.89	74.00	-16.11	peak
4	4638.600	41.21	5.40	46.61	54.00	-7.39	AVG
5	4669.400	52.53	5.50	58.03	74.00	-15.97	peak
6	4669.400	40.70	5.50	46.20	54.00	-7.80	AVG
7	4702.400	52.98	5.60	58.58	74.00	-15.42	peak
8	4702.400	40.02	5.60	45.62	54.00	-8.38	AVG
9	4810.200	53.19	5.93	59.12	74.00	-14.88	peak
10	4810.200	40.02	5.93	45.95	54.00	-8.05	AVG
11	4936.700	50.72	6.32	57.04	74.00	-16.96	peak
12	4936.700	40.41	6.32	46.73	54.00	-7.27	AVG
13	5033.500	51.74	6.60	58.34	74.00	-15.66	peak
14	5033.500	39.71	6.60	46.31	54.00	-7.69	AVG
15	5113.800	52.24	6.82	59.06	74.00	-14.94	peak
16	5113.800	40.04	6.82	46.86	54.00	-7.14	AVG
17	5150.000	49.99	6.94	56.93	74.00	-17.07	peak
18	5150.000	39.84	6.94	46.78	54.00	-7.22	AVG
19	5323.900	97.18	7.42	104.60	--	--	peak
20	5350.000	49.61	7.50	57.11	74.00	-16.89	peak
21	5350.000	38.65	7.50	46.15	54.00	-7.85	AVG
22	5377.800	50.26	7.59	57.85	74.00	-16.15	peak
23	5377.800	39.30	7.59	46.89	54.00	-7.11	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5320 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

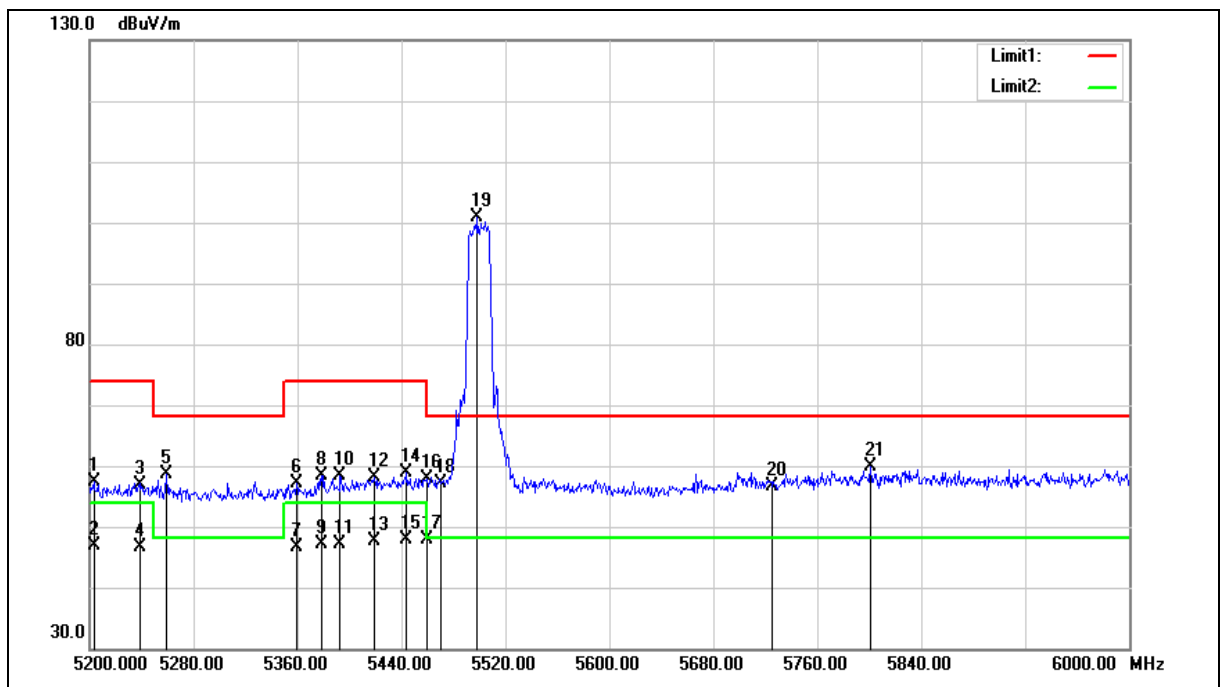
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
24	5407.500	51.03	7.67	58.70	74.00	-15.30	peak
25	5407.500	39.81	7.67	47.48	54.00	-6.52	AVG
26	5435.000	52.04	7.75	59.79	74.00	-14.21	peak
27	5435.000	40.42	7.75	48.17	54.00	-5.83	AVG
28	5465.800	51.53	7.84	59.37	68.20	-8.83	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5500 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5500 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

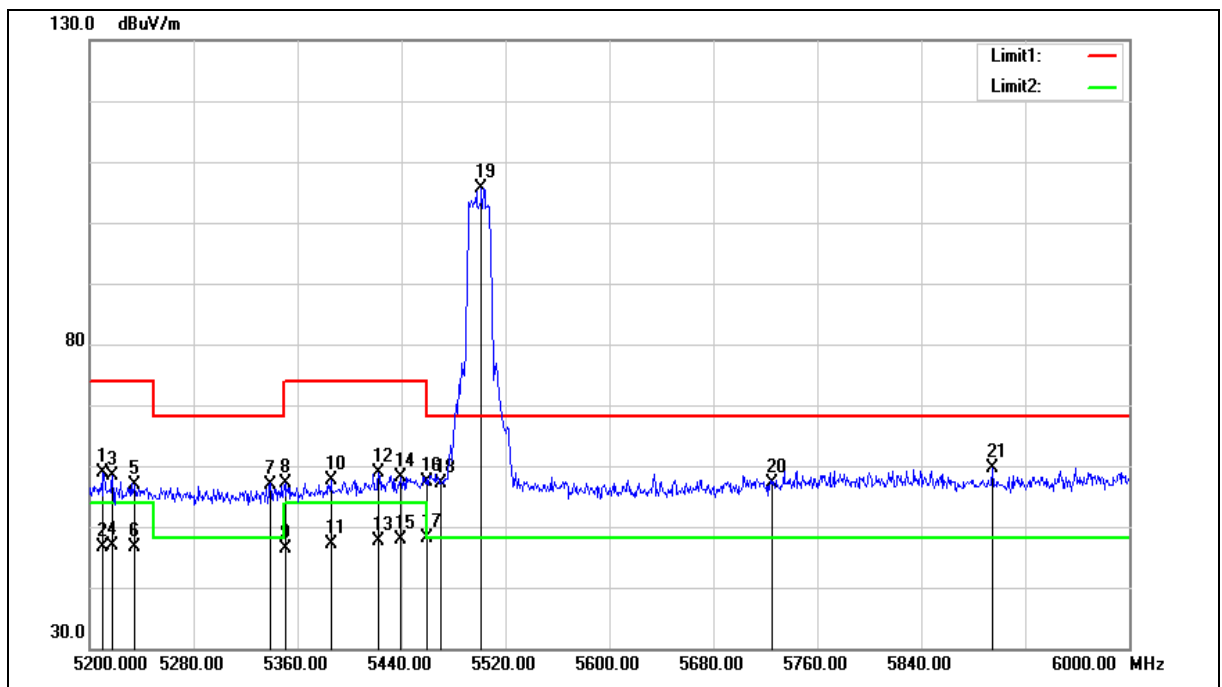
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5203.200	50.36	7.09	57.45	74.00	-16.55	peak
2	5203.200	39.89	7.09	46.98	54.00	-7.02	AVG
3	5239.200	49.81	7.19	57.00	74.00	-17.00	peak
4	5239.200	39.38	7.19	46.57	54.00	-7.43	AVG
5	5259.200	51.27	7.25	58.52	68.20	-9.68	peak
6	5359.200	49.64	7.53	57.17	74.00	-16.83	peak
7	5359.200	39.10	7.53	46.63	54.00	-7.37	AVG
8	5378.400	50.89	7.59	58.48	74.00	-15.52	peak
9	5378.400	39.65	7.59	47.24	54.00	-6.76	AVG
10	5392.800	50.82	7.63	58.45	74.00	-15.55	peak
11	5392.800	39.41	7.63	47.04	54.00	-6.96	AVG
12	5419.200	50.42	7.70	58.12	74.00	-15.88	peak
13	5419.200	39.94	7.70	47.64	54.00	-6.36	AVG
14	5444.000	51.06	7.77	58.83	74.00	-15.17	peak
15	5444.000	40.08	7.77	47.85	54.00	-6.15	AVG
16	5460.000	50.08	7.82	57.90	74.00	-16.10	peak
17	5460.000	40.05	7.82	47.87	54.00	-6.13	AVG
18	5470.000	49.38	7.85	57.23	68.20	-10.97	peak
19	5498.400	92.97	7.93	100.90	--	--	peak
20	5725.000	48.16	8.39	56.55	68.20	-11.65	peak
21	5800.800	51.27	8.53	59.80	68.20	-8.40	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5500 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5500 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

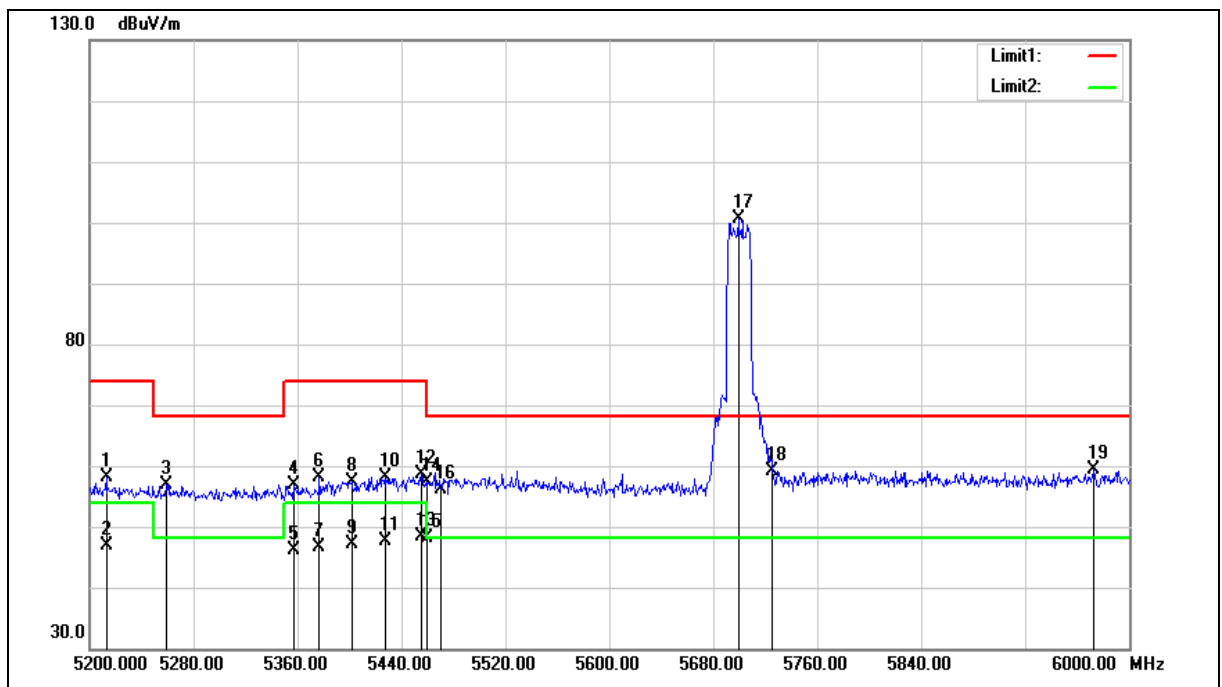
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5210.400	51.68	7.11	58.79	74.00	-15.21	peak
2	5210.400	39.64	7.11	46.75	54.00	-7.25	AVG
3	5217.600	51.24	7.13	58.37	74.00	-15.63	peak
4	5217.600	39.69	7.13	46.82	54.00	-7.18	AVG
5	5234.400	49.81	7.17	56.98	74.00	-17.02	peak
6	5234.400	39.41	7.17	46.58	54.00	-7.42	AVG
7	5339.200	49.53	7.47	57.00	68.20	-11.20	peak
8	5350.400	49.74	7.50	57.24	74.00	-16.76	peak
9	5350.400	38.95	7.50	46.45	54.00	-7.55	AVG
10	5385.600	49.98	7.61	57.59	74.00	-16.41	peak
11	5385.600	39.55	7.61	47.16	54.00	-6.84	AVG
12	5422.400	51.23	7.71	58.94	74.00	-15.06	peak
13	5422.400	40.03	7.71	47.74	54.00	-6.26	AVG
14	5439.200	50.43	7.76	58.19	74.00	-15.81	peak
15	5439.200	40.15	7.76	47.91	54.00	-6.09	AVG
16	5460.000	49.51	7.82	57.33	74.00	-16.67	peak
17	5460.000	40.25	7.82	48.07	54.00	-5.93	AVG
18	5470.000	49.39	7.85	57.24	68.20	-10.96	peak
19	5501.600	97.65	7.93	105.58	--	--	peak
20	5725.000	48.83	8.39	57.22	68.20	-10.98	peak
21	5895.200	50.80	8.74	59.54	68.20	-8.66	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5700 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5700 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

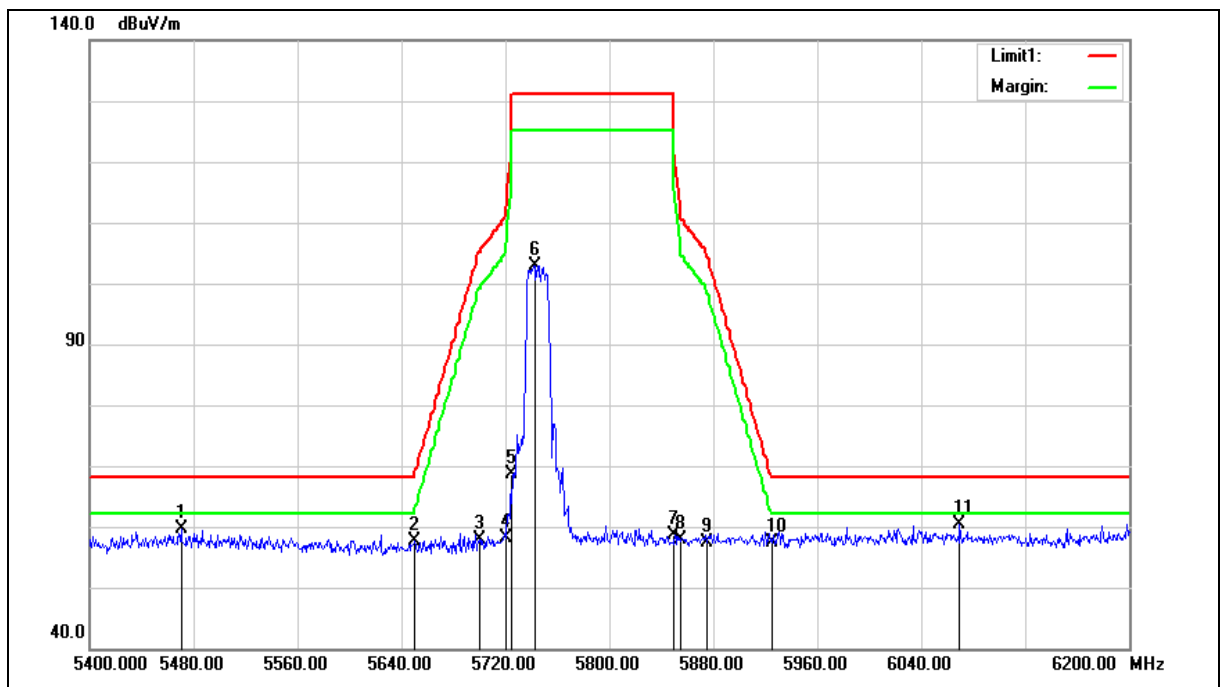
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5212.800	51.06	7.11	58.17	74.00	-15.83	peak
2	5212.800	39.74	7.11	46.85	54.00	-7.15	AVG
3	5259.200	49.59	7.25	56.84	68.20	-11.36	peak
4	5356.800	49.30	7.52	56.82	74.00	-17.18	peak
5	5356.800	38.68	7.52	46.20	54.00	-7.80	AVG
6	5376.800	50.57	7.59	58.16	74.00	-15.84	peak
7	5376.800	39.14	7.59	46.73	54.00	-7.27	AVG
8	5401.600	49.79	7.65	57.44	74.00	-16.56	peak
9	5401.600	39.60	7.65	47.25	54.00	-6.75	AVG
10	5428.000	50.42	7.73	58.15	74.00	-15.85	peak
11	5428.000	39.85	7.73	47.58	54.00	-6.42	AVG
12	5455.200	50.72	7.81	58.53	74.00	-15.47	peak
13	5455.200	40.48	7.81	48.29	54.00	-5.71	AVG
14	5460.000	49.49	7.82	57.31	74.00	-16.69	peak
15	5460.000	40.22	7.82	48.04	54.00	-5.96	AVG
16	5470.000	48.35	7.85	56.20	68.20	-12.00	peak
17	5699.200	92.25	8.34	100.59	--	--	peak
18	5725.000	50.72	8.39	59.11	68.20	-9.09	peak
19	5972.800	50.40	8.88	59.28	68.20	-8.92	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

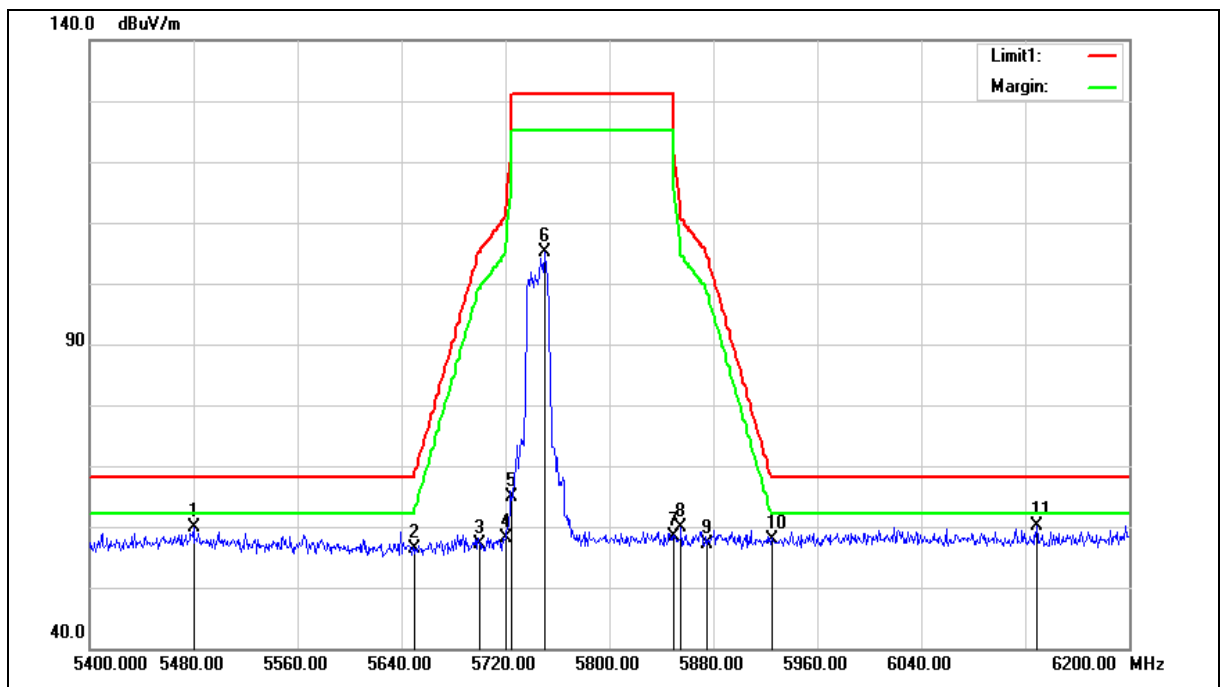
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5470.400	51.76	7.85	59.61	68.20	-8.59	peak
2	5650.000	49.39	8.24	57.63	68.20	-10.57	peak
3	5700.000	49.58	8.34	57.92	105.20	-47.28	peak
4	5720.000	49.69	8.38	58.07	110.80	-52.73	peak
5	5725.000	60.14	8.39	68.53	122.20	-53.67	peak
6	5742.400	94.45	8.42	102.87	--	--	peak
7	5850.000	49.89	8.63	58.52	122.20	-63.68	peak
8	5855.000	49.24	8.64	57.88	110.80	-52.92	peak
9	5875.000	48.64	8.69	57.33	105.20	-47.87	peak
10	5925.000	48.54	8.79	57.33	68.20	-10.87	peak
11	6069.600	51.31	9.15	60.46	68.20	-7.74	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5745 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

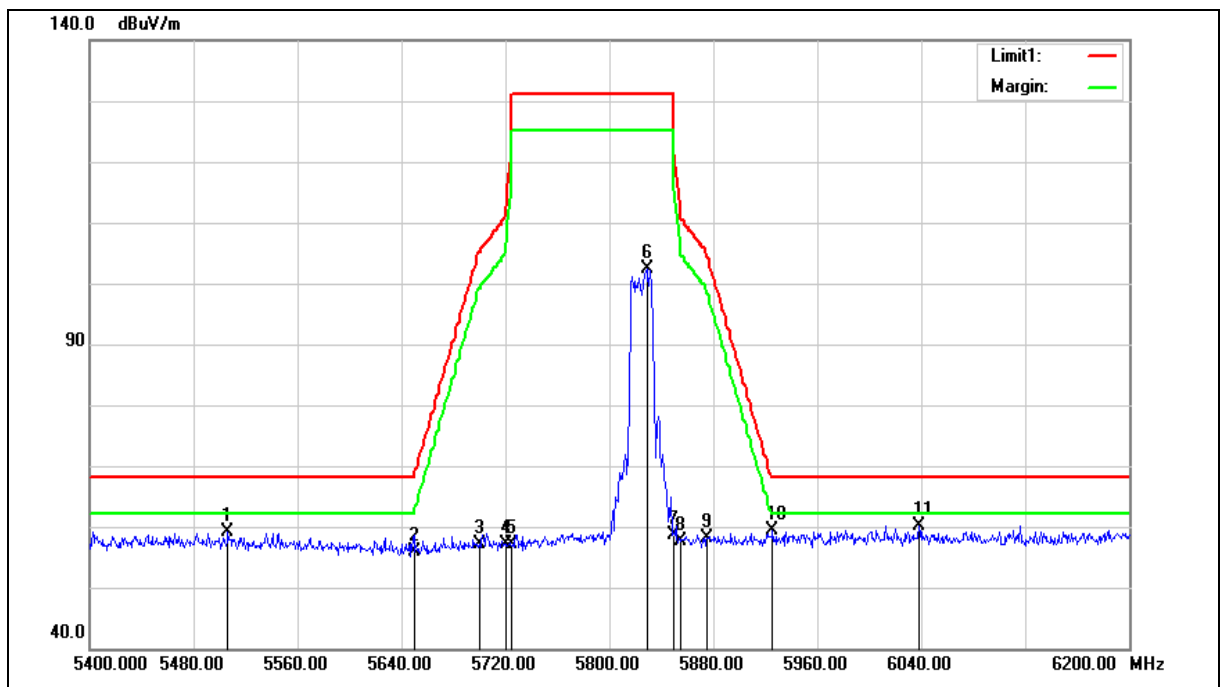
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5480.000	51.89	7.87	59.76	68.20	-8.44	peak
2	5650.000	48.13	8.24	56.37	68.20	-11.83	peak
3	5700.000	48.74	8.34	57.08	105.20	-48.12	peak
4	5720.000	49.63	8.38	58.01	110.80	-52.79	peak
5	5725.000	56.52	8.39	64.91	122.20	-57.29	peak
6	5750.400	96.65	8.44	105.09	--	--	peak
7	5850.000	49.64	8.63	58.27	122.20	-63.93	peak
8	5855.000	51.12	8.64	59.76	110.80	-51.04	peak
9	5875.000	48.52	8.69	57.21	105.20	-47.99	peak
10	5925.000	49.05	8.79	57.84	68.20	-10.36	peak
11	6128.800	50.85	9.32	60.17	68.20	-8.03	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

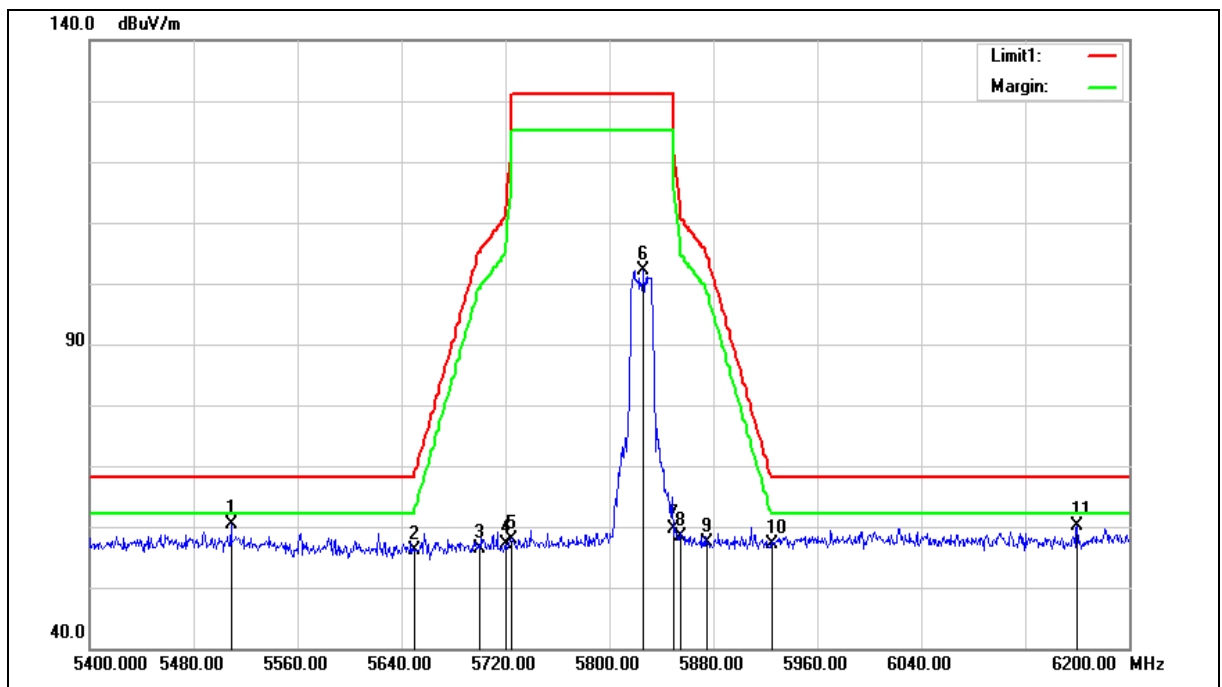
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5506.400	51.16	7.95	59.11	68.20	-9.09	peak
2	5650.000	47.72	8.24	55.96	68.20	-12.24	peak
3	5700.000	48.76	8.34	57.10	105.20	-48.10	peak
4	5720.000	48.66	8.38	57.04	110.80	-53.76	peak
5	5725.000	48.83	8.39	57.22	122.20	-64.98	peak
6	5828.800	93.79	8.59	102.38	--	--	peak
7	5850.000	50.10	8.63	58.73	122.20	-63.47	peak
8	5855.000	48.91	8.64	57.55	110.80	-53.25	peak
9	5875.000	49.45	8.69	58.14	105.20	-47.06	peak
10	5925.000	50.58	8.79	59.37	68.20	-8.83	peak
11	6038.400	51.15	9.05	60.20	68.20	-8.00	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	5825 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5508.800	52.48	7.95	60.43	68.20	-7.77	peak
2	5650.000	47.79	8.24	56.03	68.20	-12.17	peak
3	5700.000	48.08	8.34	56.42	105.20	-48.78	peak
4	5720.000	48.82	8.38	57.20	110.80	-53.60	peak
5	5725.000	49.42	8.39	57.81	122.20	-64.39	peak
6	5826.400	93.51	8.59	102.10	--	--	peak
7	5850.000	50.88	8.63	59.51	122.20	-62.69	peak
8	5855.000	49.77	8.64	58.41	110.80	-52.39	peak
9	5875.000	48.77	8.69	57.46	105.20	-47.74	peak
10	5925.000	48.44	8.79	57.23	68.20	-10.97	peak
11	6160.000	50.62	9.41	60.03	68.20	-8.17	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

4.2.2 最大傳導輸出功率之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.3 節之要求:

1. 5.15-5.25 GHz 頻帶

(1) 供戶外操作使用:

- 最大傳導輸出功率不能超過 1 W。
- 在任何 1MHz 頻帶中最大功率頻譜密度不能超過 17 dBm。
- 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- 在水平面仰角超過 30 度時，其最大 EIRP 不能超過 21dBm。

(2) 供室內操作使用:

- 最大傳導輸出功率不能超過 1 W。
- 在任何 1MHz 頻帶中最大功率頻譜密度不能超過 17 dBm。
- 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用:

- 最大傳導輸出功率不能超過 1 W。
- 在任何 1MHz 頻帶中最大功率頻譜密度不能超過 17 dBm。
- 使用超過 23dBi 方向增益之指向性天線時，應依超過 23dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供行動或可攜式裝置操作使用:

- 最大傳導輸出功率不能超過 250 mW。
- 在任何 1MHz 頻帶中最大功率頻譜密度不能超過 11dBm。
- 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

2. 5.25-5.35 GHz 與 5.470-5.725 GHz 頻帶

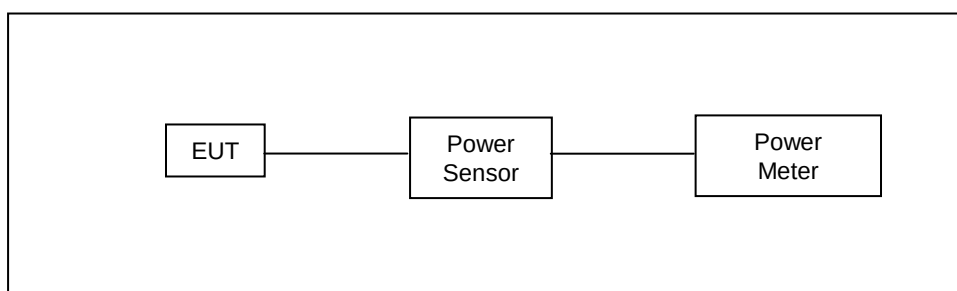
- (1) 最大傳導輸出功率不能超過 250 mW 或 $11 \text{ dBm} + 10 \log B$ (B 是 26 dB 發射頻寬，單位 MHz)之較小者。
- (2) 最大功率頻譜密度在任何 1 MHz 頻帶中不能超過 11 dBm。
- (3) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

3. 5.725-5.850 GHz 頻帶

- (1) 最大傳導輸出功率不能超過 1 W。
- (2) 在任何 500 kHz 頻帶中最大功率頻譜密度不能超過 30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過 6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

4. 最大傳導輸出功率必須使用依據均方根等效電壓校準之儀器量測於任何連續傳輸之時段，量測結果須依儀器限制（如偵測器反應時間、相較於發射頻寬有限之解析頻寬能力，靈敏度等）調整得出正確之峰值量測，以符合本段落所提之發射定義。

測試架構圖：



測試結果:

操作模式 : Mode 2						
操作模式	Data Rate (Mbps)	頻道 CH	頻率 MHz	最大傳導輸出功率(Average)		
				ANT-0		Limit (dBm)
				dBm	W	
Mode 2	6	36	5180.0	11.73	0.015	≤ 24.00
		40	5200.0	12.10	0.016	≤ 24.00
		44	5220.0	11.74	0.015	≤ 24.00
		48	5240.0	11.67	0.015	≤ 24.00
		52	5260.0	11.62	0.015	≤ 24.00
		56	5280.0	11.54	0.014	≤ 24.00
		60	5300.0	11.15	0.013	≤ 24.00
		64	5320.0	10.75	0.012	≤ 24.00
		100	5500.0	10.11	0.010	≤ 24.00
		104	5520.0	9.64	0.009	≤ 24.00
		108	5540.0	9.32	0.009	≤ 24.00
		112	5560.0	9.70	0.009	≤ 24.00
		116	5580.0	9.03	0.008	≤ 24.00
		132	5660.0	9.63	0.009	≤ 24.00
		136	5680.0	10.31	0.011	≤ 24.00
		140	5700.0	11.05	0.013	≤ 24.00
		149	5745.0	11.43	0.014	≤ 30.00
		153	5765.0	11.35	0.014	≤ 30.00
		157	5785.0	11.41	0.014	≤ 30.00
		161	5805.0	11.03	0.013	≤ 30.00
		165	5825.0	10.46	0.011	≤ 30.00

4.2.3 最大傳導功率頻譜密度之要求

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.3 節之要求:

1. 5.15-5.25 GHz 頻帶

(1) 供戶外操作使用:

- 在任何 1 MHz 頻帶中最大功率頻譜密度不能超過 17 dBm。
- 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- 在水平面仰角超過 30 度時，其最大 EIRP 不能超過 21 dBm。

(2) 供室內操作使用:

- 在任何 1 MHz 頻帶中最大功率頻譜密度不能超過 17 dBm。
- 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 供固定式點對點操作使用:

- 在任何 1 MHz 頻帶中最大功率頻譜密度不能超過 17 dBm。
- 使用超過 23 dBi 方向增益之指向性天線時，應依超過 23 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。
- 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供行動或可攜式裝置操作使用:

- 在任何 1 MHz 頻帶中最大功率頻譜密度不能超過 11 dBm。
- 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

2. 5.25-5.35 GHz 與 5.470-5.725 GHz 頻帶

(1) 最大功率頻譜密度在任何 1 MHz 頻帶中不能超過 11 dBm。

(2) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

3. 5.725-5.850 GHz 頻帶

(1) 在任何 500 kHz 頻帶中最大功率頻譜密度不能超過 30 dBm。

(2) 供固定式點對點操作時，使用方向增益超過 6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(3) 除(2)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

4. 最大功率頻譜密度量測規定:

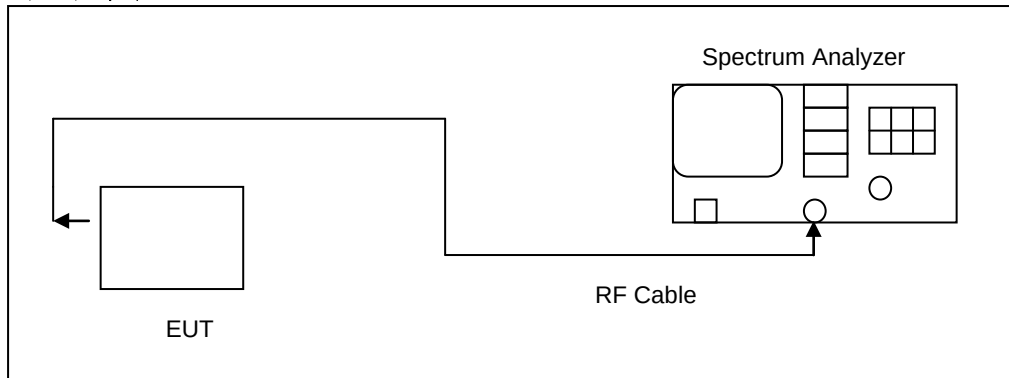
(1) 應將量測儀器直接連接待測物，以傳導方式執行。

(2) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻帶，量測儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。

(3) 5.725 GHz~5.850 GHz 頻帶，量測器之頻寬應設定為 500 kHz 或待測物之 26 dB 發射頻寬，兩者取較小者。

(4) 解析頻寬小於(2)或(3)時，應以補償方式計算總功率頻譜密度。

測試架構圖：



測試結果：

操作模式	: Mode 2
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ANT-0						
操作模式	頻道 (CH)	頻率 (MHz)	量測值 (dBm/MHz)	Duty Factor (dB)	轉換值 (dBm/MHz)	限制值 (dBm/MHz)
Mode 2	36	5180.0	-0.818	1.192	0.374	11
	40	5200.0	-0.947	1.192	0.245	11
	48	5240.0	-1.202	1.192	-0.010	11
	52	5260.0	-1.523	1.192	-0.331	11
	56	5280.0	-1.468	1.192	-0.276	11
	64	5320.0	-2.021	1.192	-0.829	11
	100	5500.0	-2.366	1.192	-1.174	11
	112	5560.0	-3.400	1.192	-2.208	11
	140	5700.0	-1.260	1.192	-0.068	11

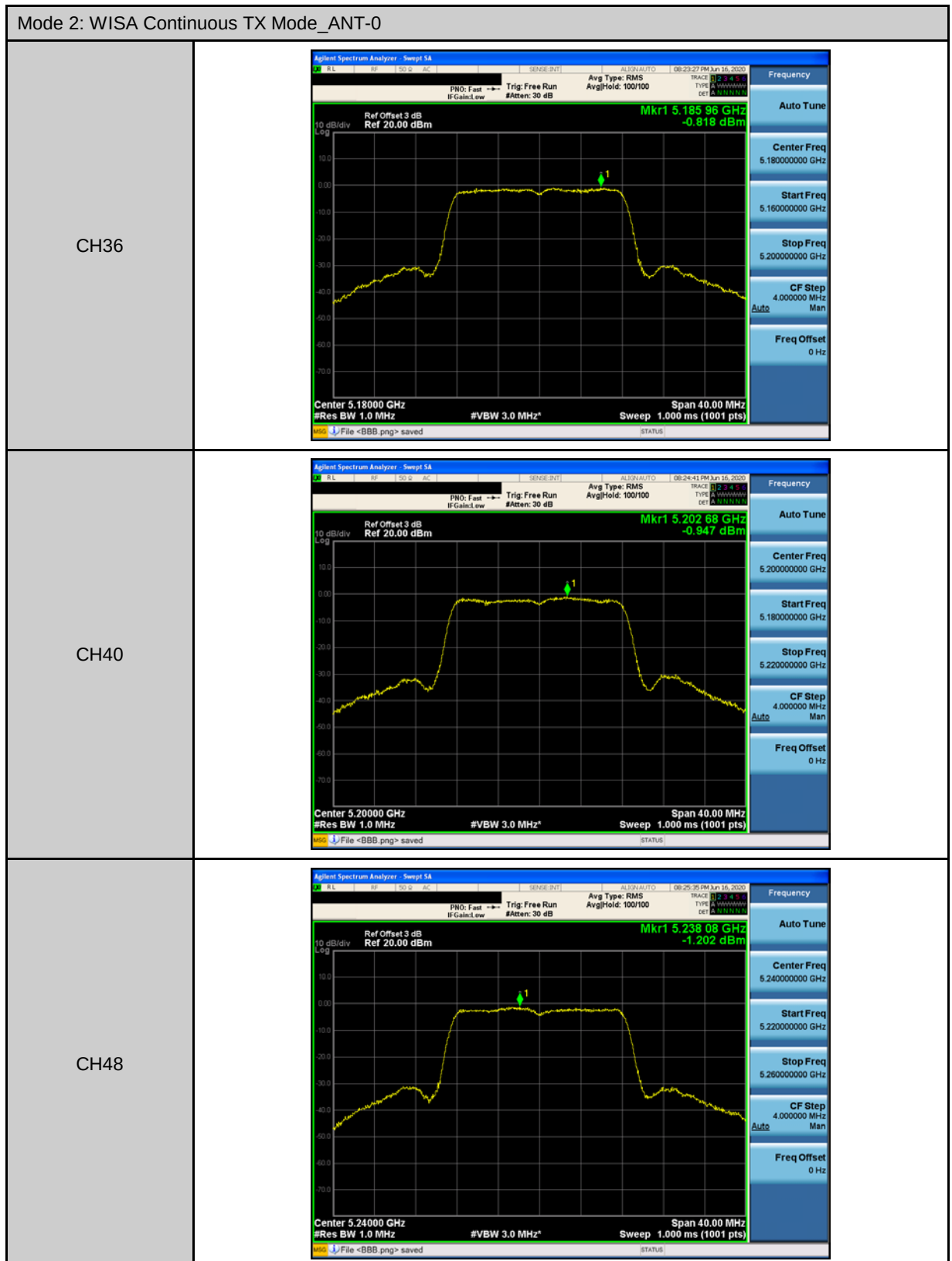
Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + dutNote: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

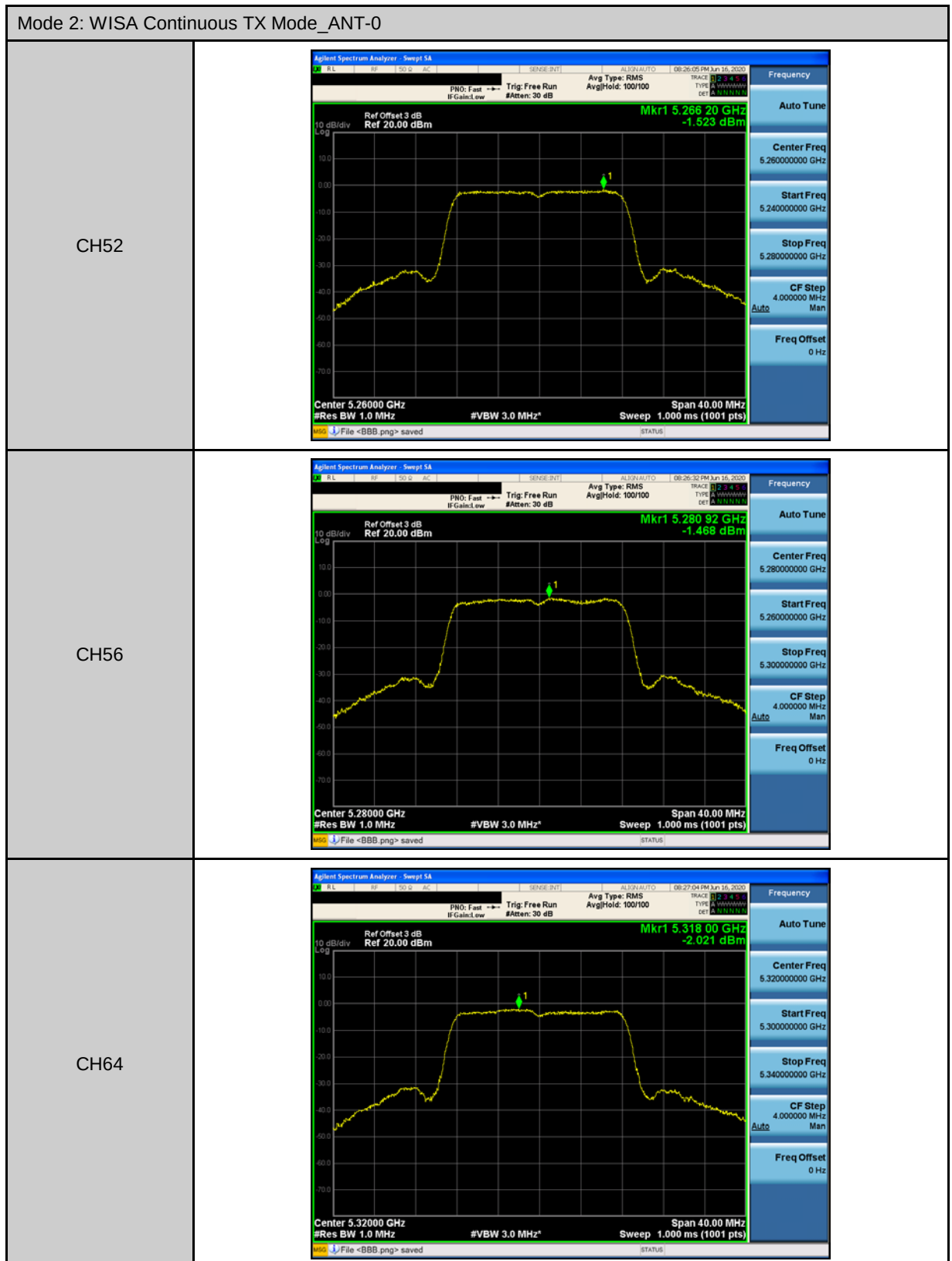
Conversion ratio = 10*Log(500 kHz/100 kHz)

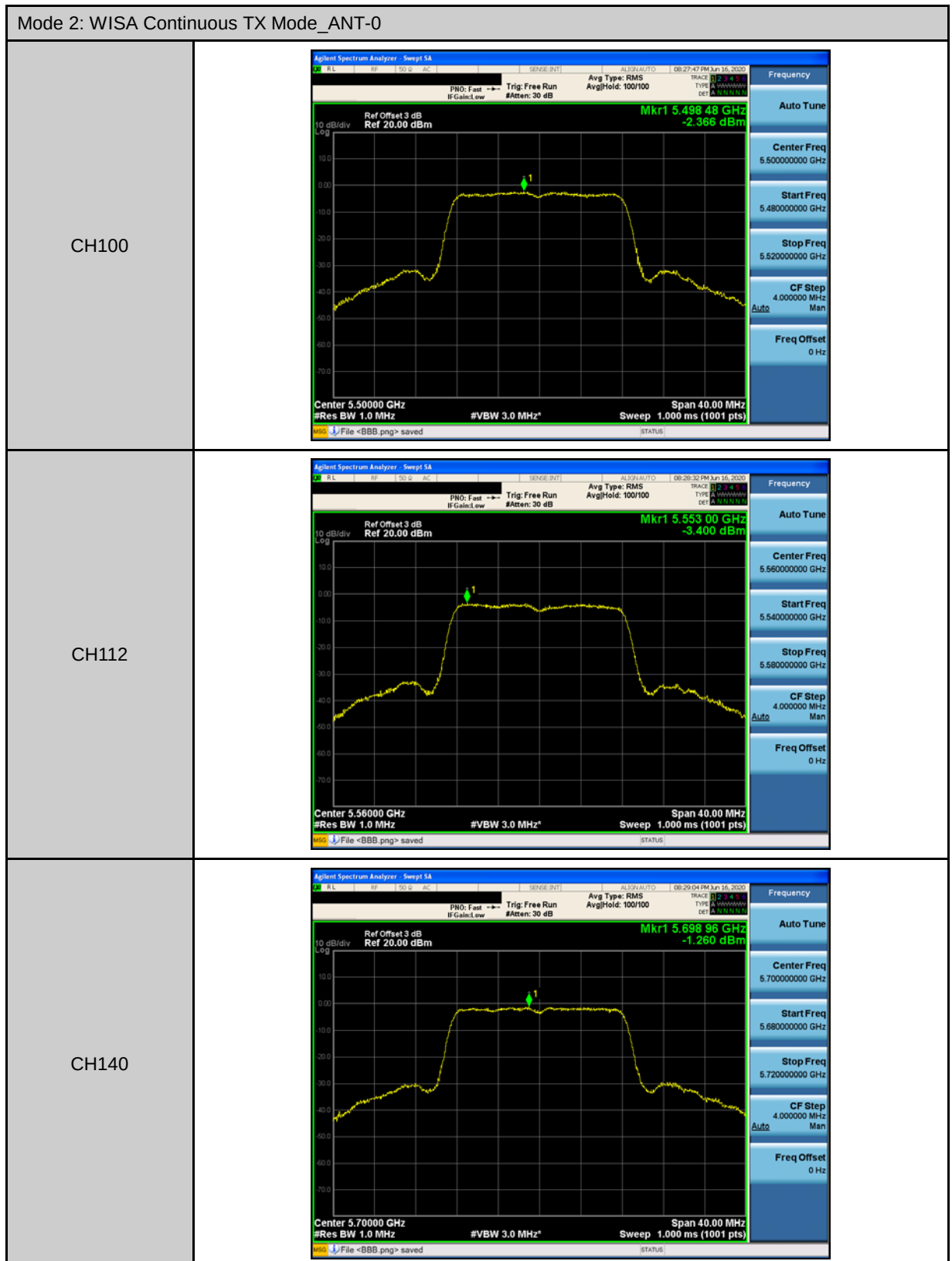
ANT-0						
操作模式	頻道 (CH)	頻率 (MHz)	量測值 (dBm/100 kHz)	Duty Factor (dB)	轉換值 (dBm/500 kHz)	限制值 (dBm/500 kHz)
Mode 2	149	5745.0	-8.335	1.192	-0.153	30
	157	5785.0	-8.390	1.192	-0.208	30
	165	5825.0	-10.349	1.192	-2.167	30

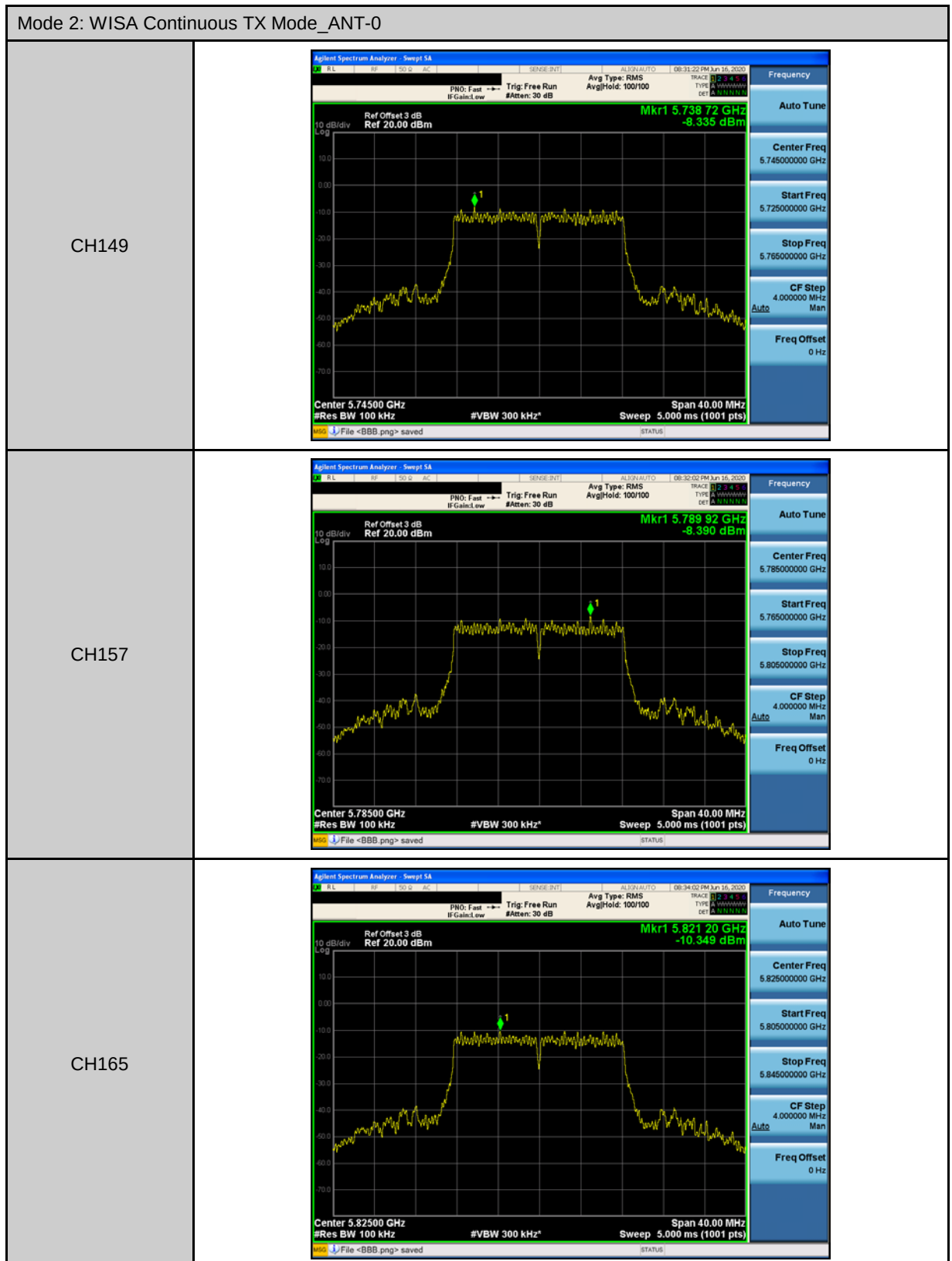
Note: Power Density = measured result + 10 log (1/duty cycle) + Conversion ratio = measured result + duty factory.

Conversion ratio = 10*Log(500 kHz/100 kHz)







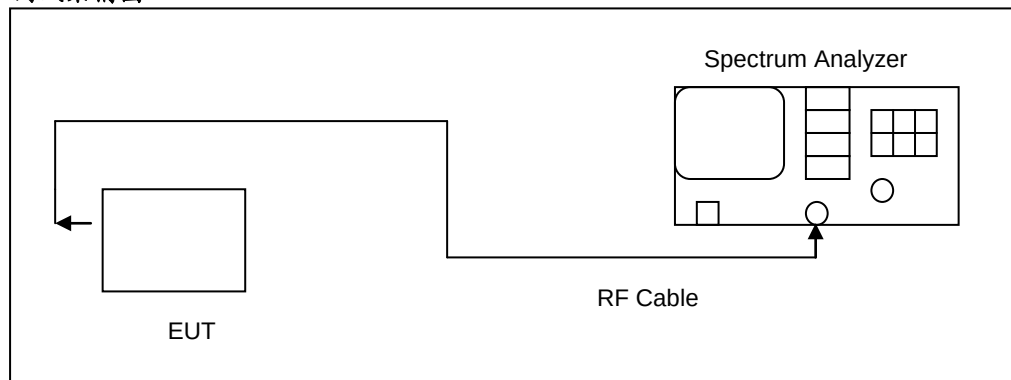


4.2.4 26 dB頻寬之要求

合格標準:

N/A

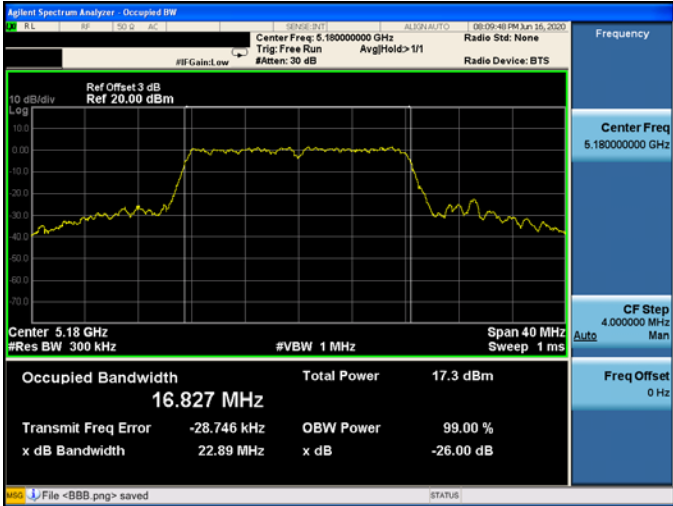
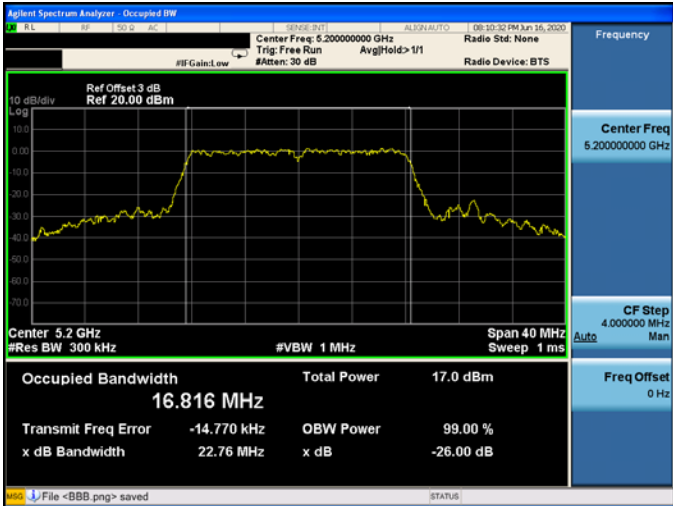
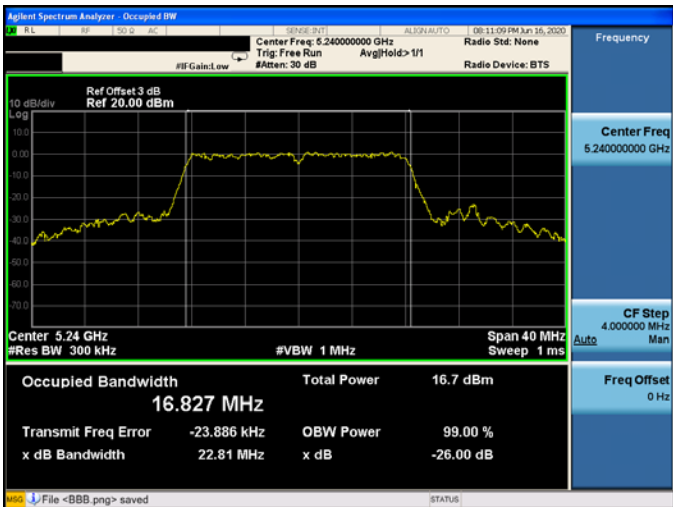
測試架構圖：

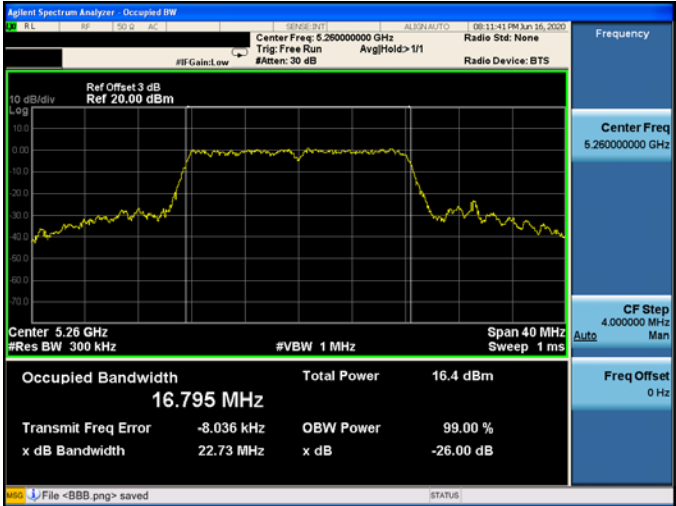


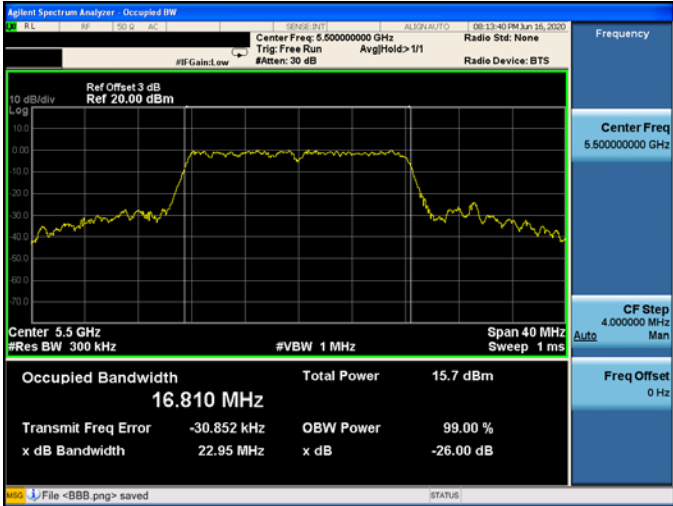
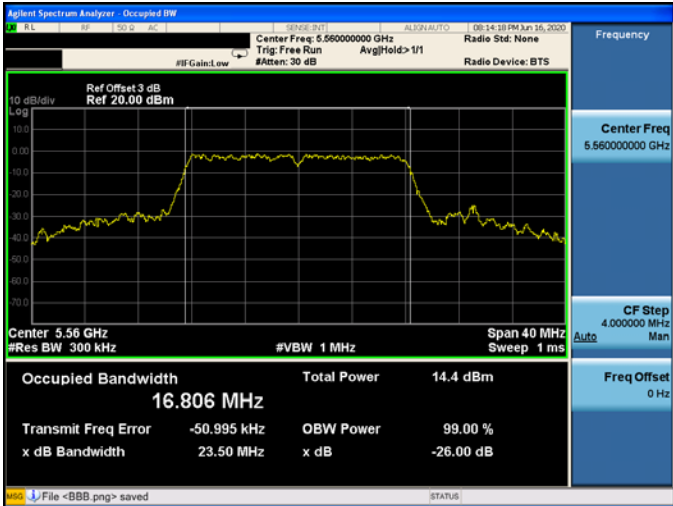
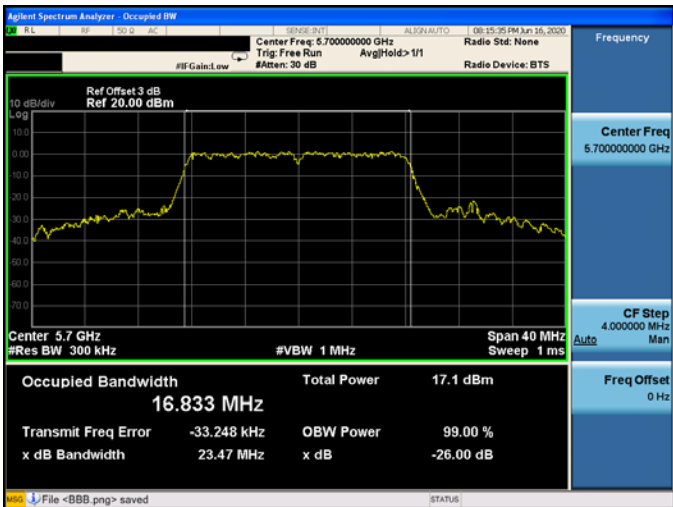
測試結果:

操作模式 : Mode 2

操作模式	頻道 (CH)	頻率 (MHz)	26 dB 頻寬量測值 (MHz)
			ANT-0
Mode 2	36	5180.0	22.890
	40	5200.0	22.760
	48	5240.0	22.810
	52	5260.0	22.730
	56	5280.0	22.830
	64	5320.0	22.730
	100	5500.0	22.950
	112	5560.0	23.500
	140	5700	23.470

Mode 2: WISA Continuous TX Mode_ANT-0	
CH36	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.180000000 GHz Trig: Free Run AvgHold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.18 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.827 MHz Total Power 17.3 dBm Transmit Freq Error -28.746 kHz OBW Power 99.00 % x dB Bandwidth 22.89 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.180000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
CH40	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.200000000 GHz Trig: Free Run AvgHold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.2 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.816 MHz Total Power 17.0 dBm Transmit Freq Error -14.770 kHz OBW Power 99.00 % x dB Bandwidth 22.76 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.200000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
CH48	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.240000000 GHz Trig: Free Run AvgHold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.24 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.827 MHz Total Power 16.7 dBm Transmit Freq Error -23.886 kHz OBW Power 99.00 % x dB Bandwidth 22.81 MHz x dB -26.00 dB File <BBB.png> saved STATUS Frequency Center Freq 5.240000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

Mode 2: WISA Continuous TX Mode_ANT-0	
CH52	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.260000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.26 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.795 MHz Total Power 16.4 dBm Transmit Freq Error -8.036 kHz OBW Power 99.00 % x dB Bandwidth 22.73 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH56	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.280000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.799 MHz Total Power 16.6 dBm Transmit Freq Error -26.980 kHz OBW Power 99.00 % x dB Bandwidth 22.83 MHz x dB -26.00 dB File <BBB.png> saved STATUS
CH64	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.320000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.32 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.810 MHz Total Power 16.0 dBm Transmit Freq Error -22.076 kHz OBW Power 99.00 % x dB Bandwidth 22.73 MHz x dB -26.00 dB File <BBB.png> saved STATUS

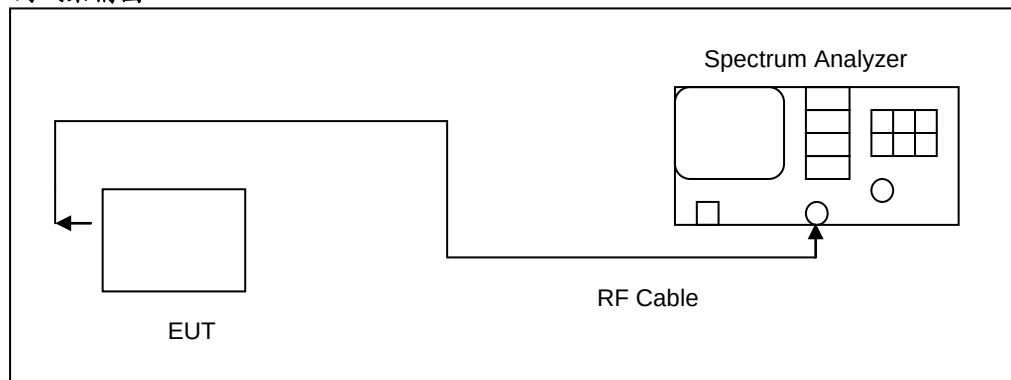
Mode 2: WISA Continuous TX Mode_ANT-0	
CH100	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.50000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.810 MHz Total Power 15.7 dBm Transmit Freq Error -30.852 kHz OBW Power 99.00 % x dB Bandwidth 22.95 MHz x dB -26.00 dB Center Freq 5.50000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz File <BBB.png> saved
CH112	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.56000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.806 MHz Total Power 14.4 dBm Transmit Freq Error -50.995 kHz OBW Power 99.00 % x dB Bandwidth 23.50 MHz x dB -26.00 dB Center Freq 5.56000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz File <BBB.png> saved
CH140	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.70000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 16.833 MHz Total Power 17.1 dBm Transmit Freq Error -33.248 kHz OBW Power 99.00 % x dB Bandwidth 23.47 MHz x dB -26.00 dB Center Freq 5.70000000 GHz CF Step 4.000000 MHz Freq Offset 0 Hz File <BBB.png> saved

4.2.5 6 dB頻寬之要求

合格標準:

在 5.725 GHz~5.850 GHz 頻帶操作之設備，其 6 dB 頻寬至少應有 500 kHz。

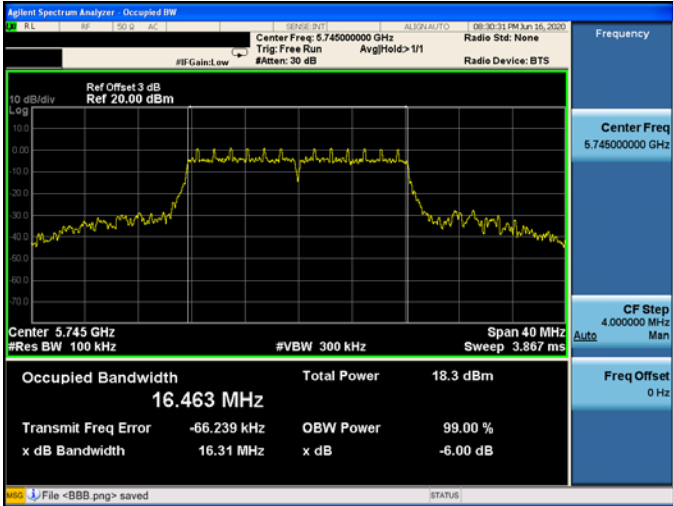
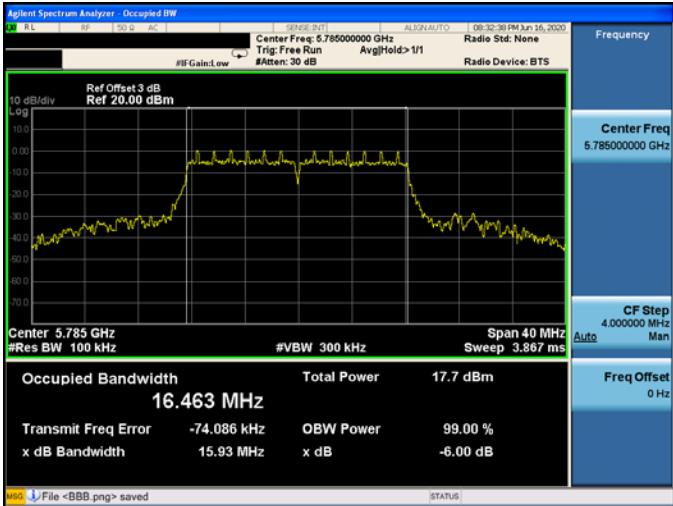
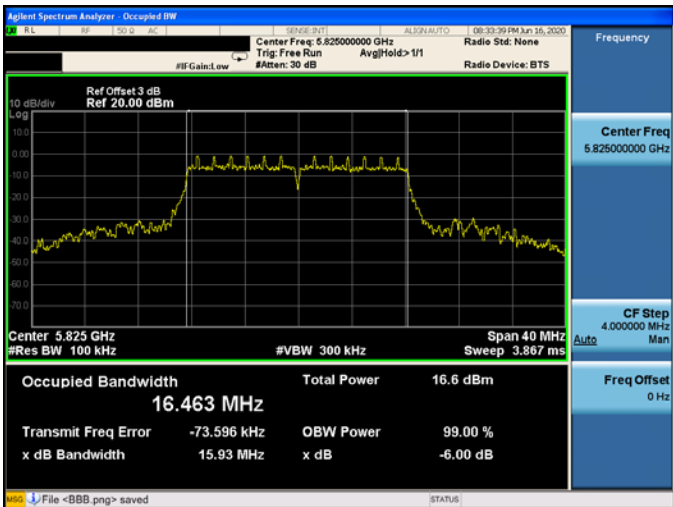
測試架構圖：



測試結果:

操作模式 : Mode 2

操作模式	頻道 (CH)	頻率 (MHz)	6 dB 頻寬量測值 (kHz)	限制值 (kHz)
			ANT-0	
Mode 2	149	5745.0	16310	≥ 500
	157	5785.0	15930	≥ 500
	165	5825.0	15930	≥ 500

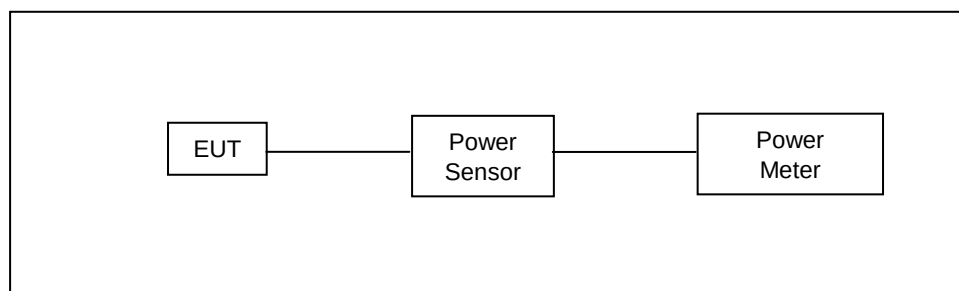
Mode 2: WISA Continuous TX Mode_ANT-0	
CH149	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.745 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.463 MHz Total Power 18.3 dBm Transmit Freq Error -66.239 kHz OBW Power 99.00 % x dB Bandwidth 16.31 MHz x dB -6.00 dB File <BBB.png> saved STATUS
CH157	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.785000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.463 MHz Total Power 17.7 dBm Transmit Freq Error -74.086 kHz OBW Power 99.00 % x dB Bandwidth 15.93 MHz x dB -6.00 dB File <BBB.png> saved STATUS
CH165	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 5.825000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None Radio Device: BTS Ref Offset 3 dB Ref 20.00 dBm 10 dB/div Log Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 3.867 ms Occupied Bandwidth 16.463 MHz Total Power 16.6 dBm Transmit Freq Error -73.596 kHz OBW Power 99.00 % x dB Bandwidth 15.93 MHz x dB -6.00 dB File <BBB.png> saved STATUS

4.2.6 發射功率控制(TPC)之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)4.7.7.1 節之要求，發射功率控制(TPC)操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻帶的設備，應具備發射功率控制功能。設備必須至少具有 6 dB 低於平均 EIRP 值 30 dBm 的能力。EIRP 值低於 500 mW 之系統不須具備 TPC 功能。

測試架構圖：



測試結果：

操作模式	: Mode 2
測試結果	: Mode 2: EIRP = 19.320 mW < 500 mW , 故不需評估發射功率控制(TPC)。

4.2.7 動態頻率選擇(DFS)之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)4.7.7.2 節之要求, 操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻帶之設備應具備動態頻率選擇雷達偵測功能並啟動之, 以完整偵測使用頻帶內之雷達訊號, 避免與雷達系統

同頻道操作。相關規定如下:

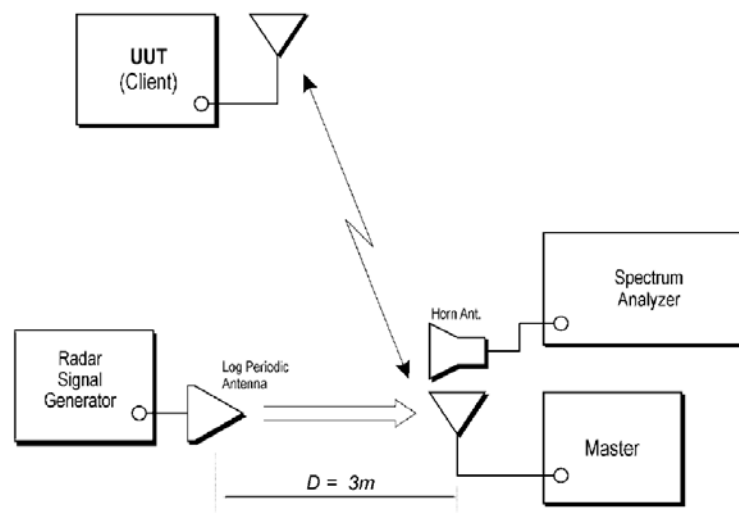
最低動態頻率選擇的偵測門檻

- 最大 EIRP 為 200 mW 至 1 W 之設備, 其最低動態頻率選擇的偵測門檻值為-64 dBm。
- 最大 EIRP 低於 200 mW, 且功率頻譜密度小於 10 dBm/MHz 之設備, 其最低動態頻率選擇的偵測門檻值為-62 dBm。
- 最大 EIRP 低於 200 mW, 且功率頻譜密度大於或等於 10 dBm/MHz 之設備, 其最低動態頻率選擇的偵測門檻值為-64dBm。
- 此偵測門檻值為 1 微秒內之平均接收功率, 並以 0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用

操作模式: 動態頻率選擇之規定適用於以下之操作模式:

- 頻道可用性檢查時間之規定, 適用於主控運作模式。
- 頻道移動時間之規定, 適用於主控及受控運作模式。

測試架構圖:



測試結果:

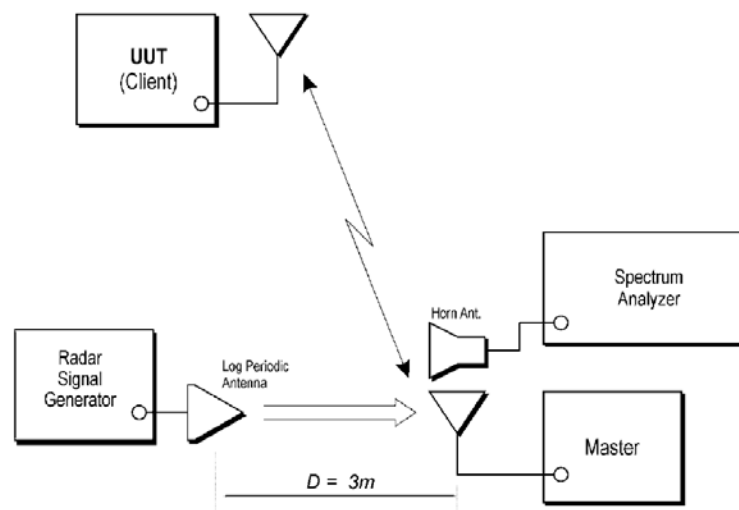
操作模式	: Mode 2
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估動態頻率選擇(DFS)

4.2.8 頻道可用性檢查時間之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(3)節之要求，設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在 60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達信號時，設備才可開始使用該頻道。

測試架構圖：



測試結果：

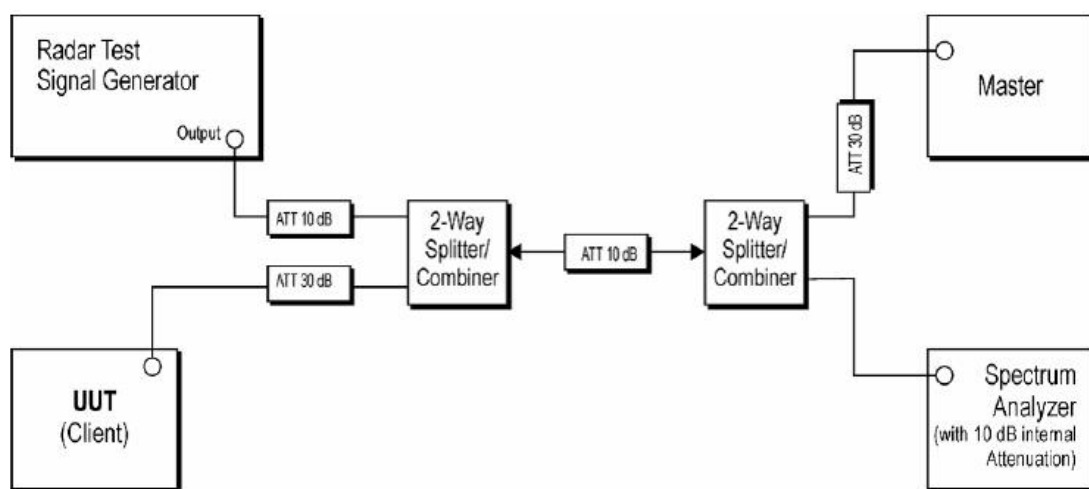
操作模式	: Mode 2
測試結果	: 不適用；此產品為受控裝置，因此不須評估頻道可用性檢查時間

4.2.9 頻道移動時間之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(4)節節之要求，在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在 10 秒內停止，在偵測到雷達信號後，該期間內的傳輸應維持最多 200 毫秒的正常通訊。另外，間歇性的管理與控制信號可在剩餘的時間中傳送，以便撤離該操作頻道。

測試架構圖：



Product		Manufacturer	Model No.	ID
1	Netgear Access Point	Netgear	R7800	FCC : PY315100319

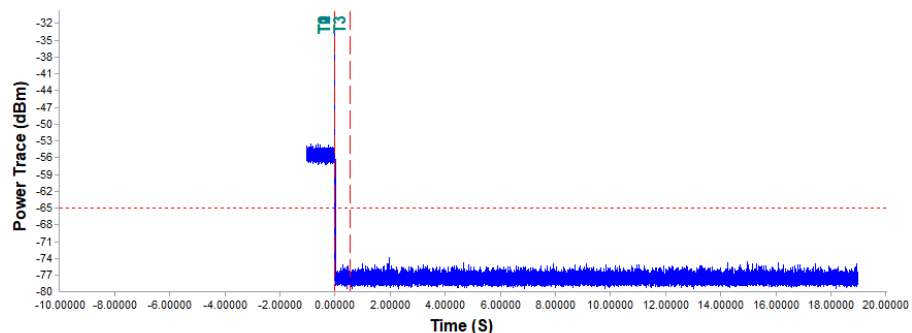
測試結果:

操作模式 : Mode 2

Frequency (MHz)	Radar Type	Channel Move Time (sec)	Limit (sec)
5560	Type 0	0.0000	10

Frequency (MHz)	Radar Type	Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
5560	Type 0	0.0000	200

Mode 2: IEEE 802.11ac 80 MHz Continuous TX Mode

Channel Move Time
/
Channel Closing
Transmission Time

Time Index Info

T0 : -0.0240 S
T1 : 0.0000 S
T2 : 0.0000 S
T3 : 0.0000 S

Time Per Bin: 0.4999875 ms
T2~T3 Bins Over Threshold:
= 1 Bins

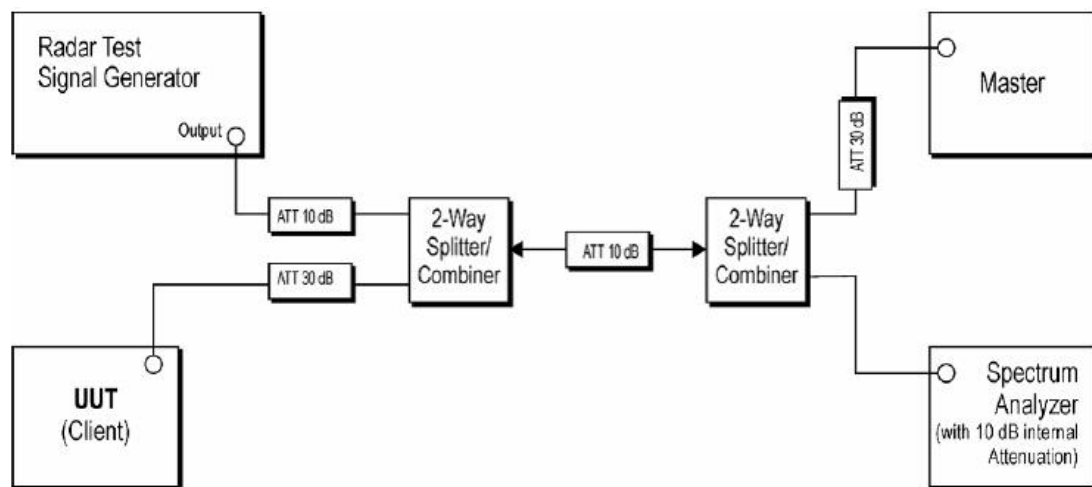
Channel Move Time: 0.0 S
Channel Close Time: 0.0000 S

4.2.10 不可佔用時間之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.7.2(5)節節之要求, 某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統, 至少須有 30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

測試架構圖：



測試結果:

操作模式	: Mode 2
測試結果	: 不適用, 此產品為受控裝置, 因此不須評估不可佔用時間

4.2.11 天線規格之要求

合格標準:

據 NCC 低功率射頻電機技術規範(LP0002)之 4.7.8 節之要求，天線之規格不受第 2.2 節規定之限制

判定結果: 符合。

4.2.12 電波暴露量之評估

合格標準:

若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符合電波暴露量之要求。限制值如下：

5.20.2.1 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：MHz。

5.20.2.2 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/cm ²)	平均時間 (minutes)
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
300~1,500	-----	-----	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：MHz。

判定結果:

Band	Frequency (MHz)	Limit (mW/cm ²)	Distance [R] (cm)	Power [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	With Duty cycle [P] x [G] (mW)	Power Density [S] (mW/cm ²)
WISA 5 GHz	5150-5850	1	20	12.10	1.24	1.33	1	21.57	0.0043

---END---