



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	2004DR48
版本(Rev.)	00
產品名稱	Low Power Wi-Fi Module
申請廠商	GAINSPAN CORPORATION
商標或廠牌	Gainspan
型式 (號)	GS2200MIZ
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 08 月 03 日

填發本型式認可報告之試驗機構 (認可代號)

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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。
- 2.本測試報告未經晶復科技股份有限公司書面同意，不得部分複製本報告內容。
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報告修訂紀錄

版本 (Rev.)	發行日期	修訂內容	修訂者
00	109 年 07 月 20 日	初版發行	鄭安蓁
01	109 年 08 月 03 日	第 5 頁更新天線型態。 第 8 頁更新 Data Rate。	江玉

低功率射頻電機測試證明書

產品名稱 : Low Power Wi-Fi Module

商 標 : Gainspan

型 號 : GS2200MIZ

申請廠商 : GAINSPAN CORPORATION

申請者地址 : 251 LITTLE FALLS DRIVE, WILMINGTON, New Caslte, DE, 19808,
United States

製造廠商 : GAINSPAN CORPORATION

製造商地址 : 251 LITTLE FALLS DRIVE, WILMINGTON, New Caslte, DE, 19808,
United States

待測物電壓 : DC 3.3 V

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)

樣品接收日期 : 108 年 12 月 18 日

完成日期 : 109 年 04 月 11 日~109 年 04 月 13 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)

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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	Low Power Wi-Fi Module		
商 標 或 廠 牌	Gainspan		
型 號	GS2200MIZ		
額 定 電 源	DC 3.3 V		
調 變 方 式	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n 2.4 GHz 20 MHz: OFDM		
頻 率 使 用 範 圍	Mode	Frequency Range (MHz)	
	IEEE 802.11b / IEEE 802.11g / IEEE 802.11n 2.4 GHz 20 MHz		2412 – 2462
天 線 廠 牌	YAGEO		
天 線 型 號	ANT8010LL04R2400A		
天 線 型 態	Internal Ceramic Chip Antenna		
天 線 增 益 值	5.46 dBi		
R F 最 大 輸 出 功 率	Mode	Power	
	IEEE 802.11b	16.38 dBm	0.043 W
	IEEE 802.11g	19.06 dBm	0.081 W
	IEEE 802.11n 2.4 GHz 20 MHz	19.41 dBm	0.087 W

輸出/輸入埠說明：

輸 出 / 入 埠		數 量	介 面 內 容 說 明
1	Signal Port	1	連接至治具

待測設備外圍說明：

電 源 線 類 別	無
附 屬 裝 置	無

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: Apr. 13, 2020

測試者: 徐基哲

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
Power Sensor	Anritsu	MA2411B	1126022	09/02/2019	1 year
Power Meter	Anritsu	ML2495A	1135009	09/02/2019	1 year
Spectrum Analyzer (20 Hz~26.5 GHz)	Agilent	N9020A	US47520902	09/18/2019	1 year

For Radiated Emissions

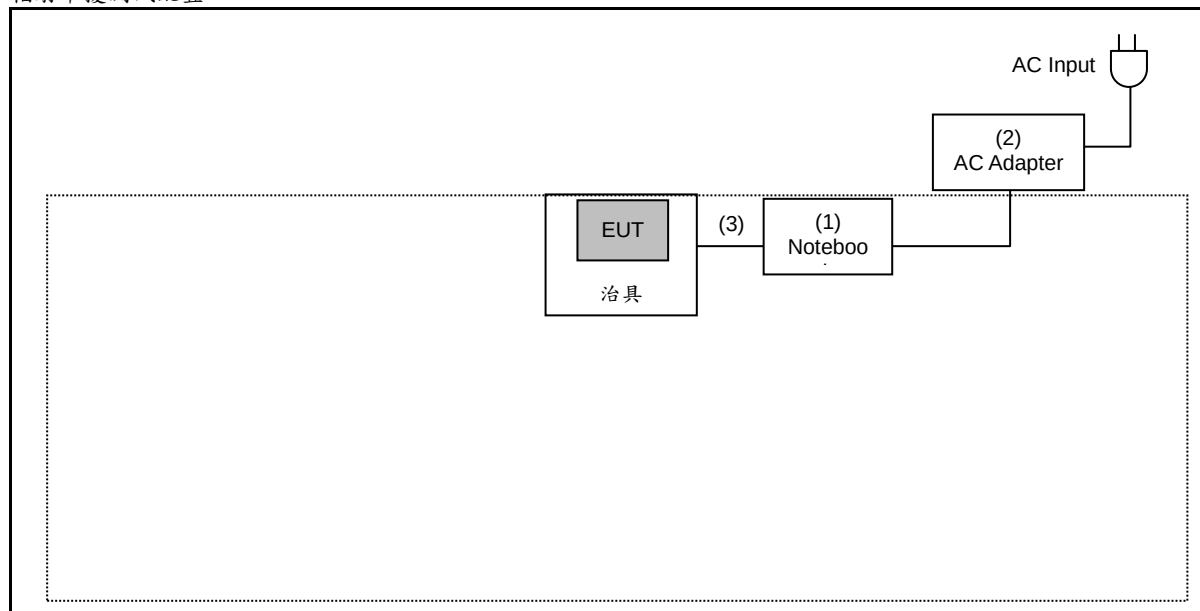
Test Period: Apr. 11, 2020

測試者: 廖經雄, 葉佳原

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
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

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	ASUS	P2430U	GANXCV04 H86940A	---	(實驗室提供)
(2) AC Adapter	ASUS	ADP-65GD B	---	Non-Shielded , 0.8 m	INPUT : 100-240 VAC, 50/60 Hz, 1.5 A OUTPUT : 19 VDC, 3.42 A (實驗室提供)
(3) USB Cable	Monoprice	Monoprice USB-A to Mini-B Cable - 5-Pin, 28/28AWG, Black, 3ft	---	---	規格 : STD-A to Mini B 長度 : 0.85 m (申請者提供)

註：本案經申請者切結器材不提供隨貨配件，配件由實驗室(或申請者)提供併同檢驗。

2.4 測試軟體版本

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

2.5 測試模式

使用定頻模式量測

Pre-Test Mode
Mode 1: Transmit Mode
Mode 2: IEEE 802.11b Continuous TX Mode
Mode 3: IEEE 802.11g Continuous TX Mode
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX Mode
Mode 5: Receiver Mode

Final-Test Mode
Mode 1: Transmit Mode
Mode 2: IEEE 802.11b Continuous TX Mode
Mode 3: IEEE 802.11g Continuous TX Mode
Mode 4: IEEE 802.11n 2.4 GHz 20 MHz Continuous TX Mode
Mode 5: Receiver Mode

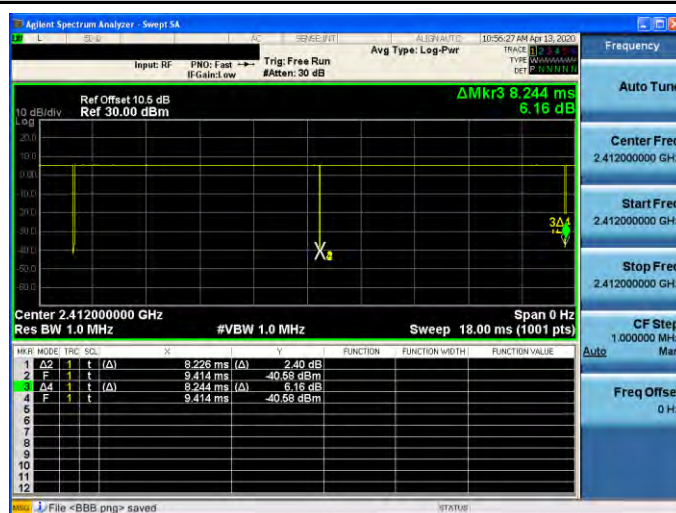
Test Mode	ANT-0
Mode 2	V
Mode 3	V
Mode 4	V

Test Mode	Antenna Delivery	Data Rate (Mbps)	Test Channel
Mode 2	1TX / 1RX	1	1, 6, 11
Mode 3	1TX / 1RX	6	1, 6, 11
Mode 4	1TX / 1RX	7.2	1, 6, 11

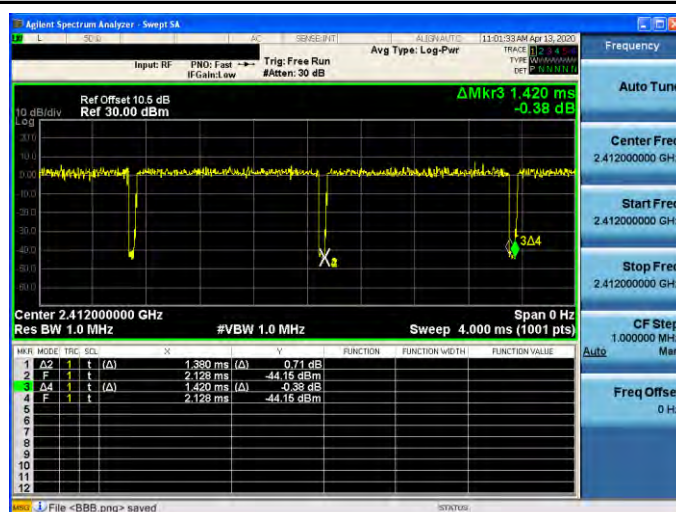
Duty cycle

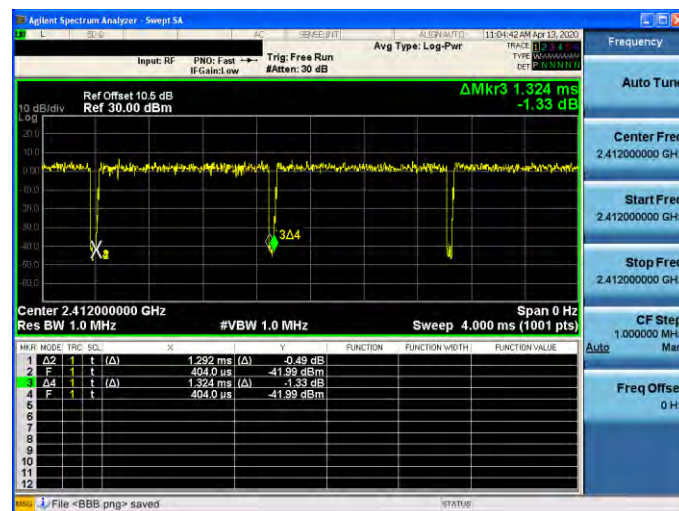
Test Mode	Frequency (MHz)	on time (ms)	on+off time (ms)	Duty cycle	Duty Factor (dB)	1/T Minimum VBW (kHz)
Mode 2	2412.0	8.226	8.244	0.998	0.009	0.010
Mode 3	2412.0	1.380	1.420	0.972	0.124	0.725
Mode 4	2412.0	1.292	1.324	0.976	0.106	0.774

Mode 2: IEEE 802.11b Continuous TX Mode



Mode 3: IEEE 802.11g Continuous TX Mode





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	

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
大氣壓力 (mbar)		860 - 1060	990 - 1005

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。

2.4 GHz 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	不適用
2	場強輻射	低功率射頻電機技術規範 2.8 節、2.9 節、3.10.1.5.(1)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 3.10.1.5.(1)節	請參閱 4.2.1 節	請參閱 2.1 節	符合
4	峰值傳導輸出功率	低功率射頻電機技術規範 3.10.1.2(1)(C)節	請參閱 4.2.2 節	請參閱 2.1 節	符合
5	天線規格	低功率射頻電機技術規範 3.10.1.3(3)、3.10.1.4 節	請參閱 4.2.3 節	-----	符合
6	非必要頻帶	低功率射頻電機技術規範 3.10.1.5(1)節	請參閱 4.2.4 節	請參閱 2.1 節	符合
7	6 dB 頻寬	低功率射頻電機技術規範 3.10.1.6(2)(A)節	請參閱 4.2.5 節	請參閱 2.1 節	符合
8	峰值發射功率頻譜密度	低功率射頻電機技術規範 3.10.1.6(2)(B)節	請參閱 4.2.6 節	請參閱 2.1 節	符合
9	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 4.2.7 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。

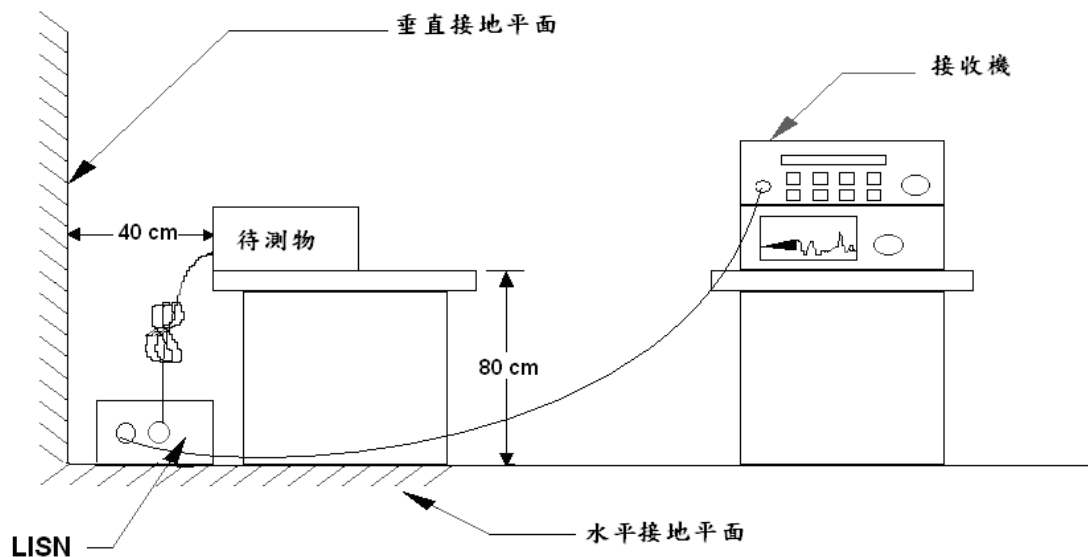
干擾值之計算

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：不適用，此產品透過 DC 電源供電。

4.2 2.4 GHz 檢驗項目

4.2.1 場強輻射之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之使用頻帶範圍外之任意 100 千赫 (kHz)內，發射機所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫(kHz)內的射頻功率，至少須衰減 20 dB，以射頻傳導或輻射方式測量。如發射機以依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.2(1)(C)之峰值傳導輸出功率量測方式者，至少須衰減 30 dB。此外，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	1660.0~1785.0	8025.0~8500.0
0.490~0.510	149.90~150.05	1805.0~1888.0	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	2010.0~2025.0	13250~13400
5.670~5.690	240.00~285.00	2110.0~2170.0	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

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。

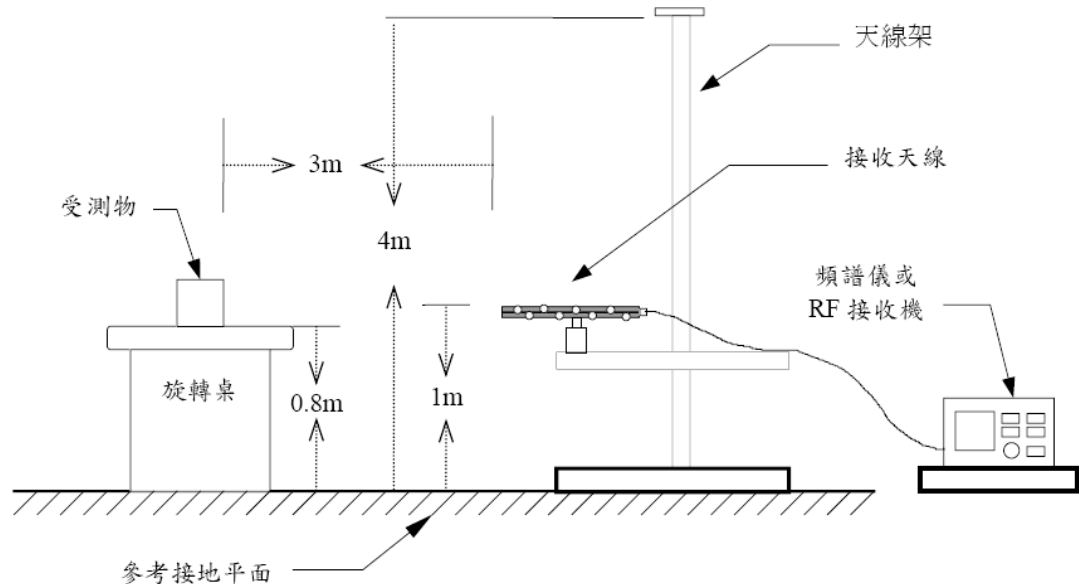
場強度之計算

場強之計算公式為：結果值 = 讀值 + 校正因子

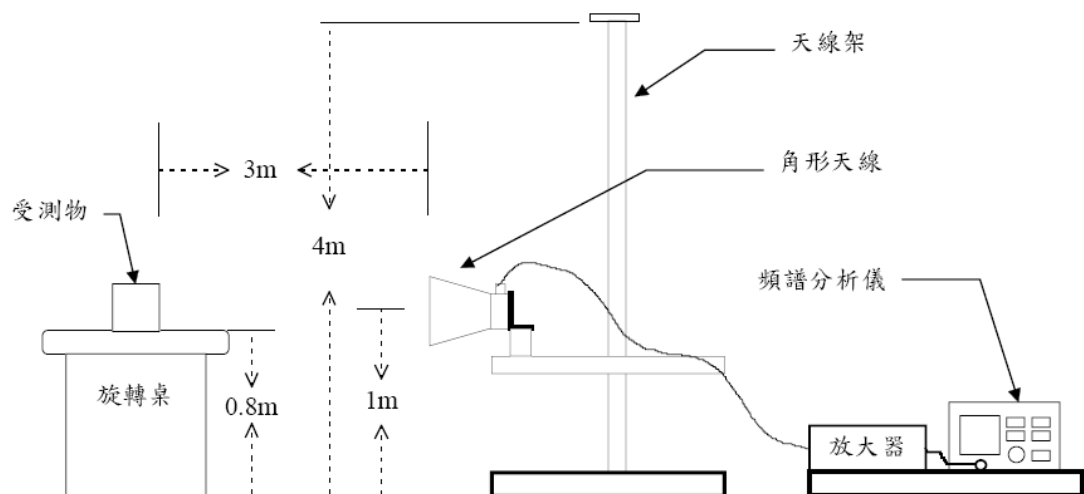
其中校正因子為：天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

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



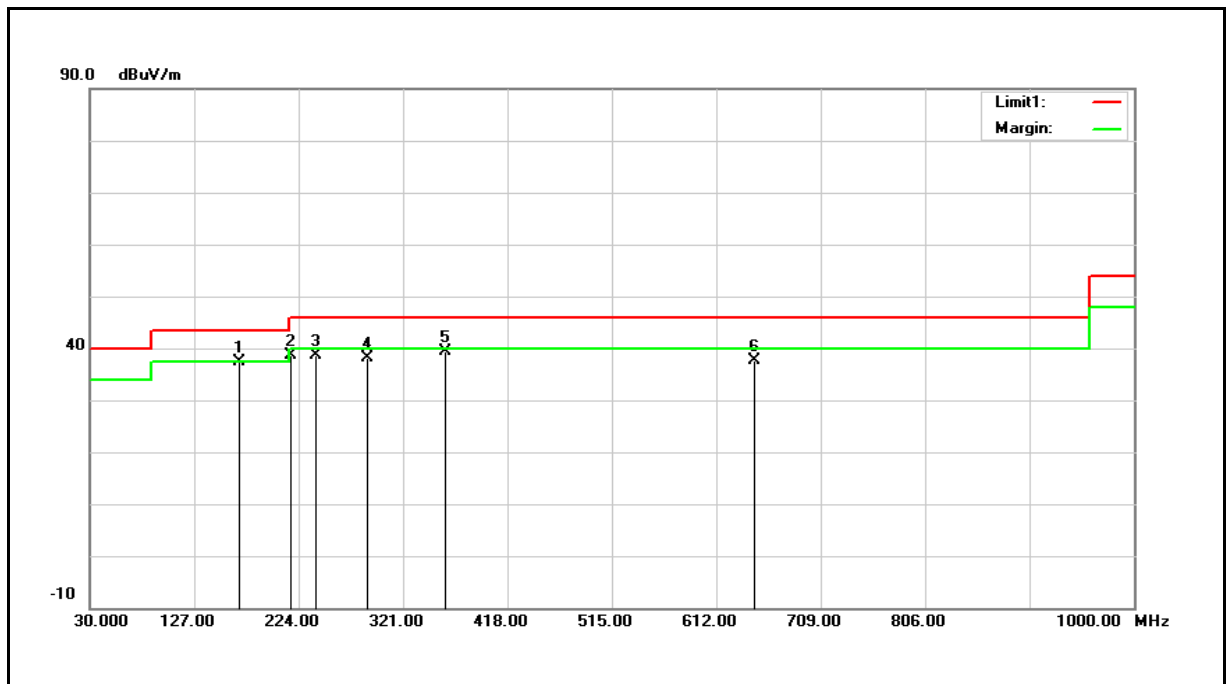
測試結果：

本產品透過預測測試確認 X、Y 和 Z 個軸中最差之結果軸向為 Y 軸，因此場強輻射完整測試 Y 軸並將其結果記錄於報告中。

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	168.7100	43.01	-5.75	37.26	43.50	-6.24	QP
2	216.2400	46.06	-7.34	38.72	46.00	-7.28	QP
3	240.4900	44.76	-6.15	38.61	46.00	-7.39	QP
4	288.0200	42.53	-4.50	38.03	46.00	-7.97	QP
5	360.7700	42.46	-3.11	39.35	46.00	-6.65	QP
6	647.8900	34.82	2.90	37.72	46.00	-8.28	QP

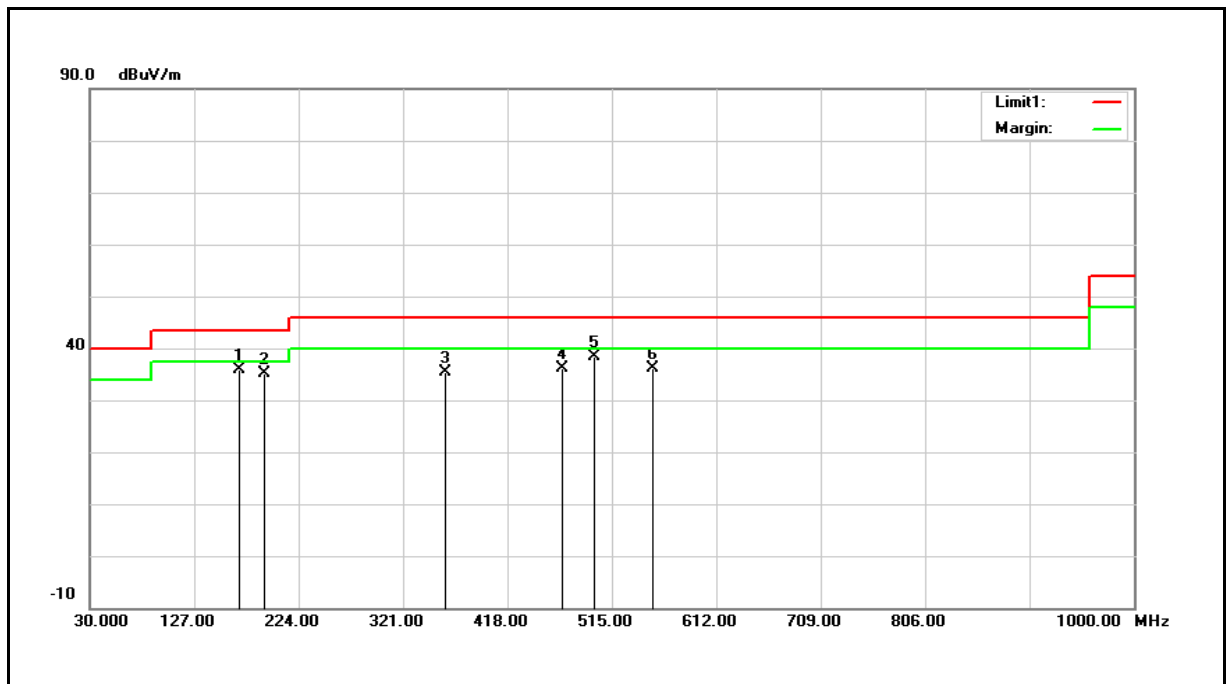
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $37.26 = -5.75 + 43.01$

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	168.7100	41.73	-5.75	35.98	43.50	-7.52	QP
2	191.9900	42.52	-7.42	35.10	43.50	-8.40	QP
3	360.7700	38.52	-3.11	35.41	46.00	-10.59	QP
4	468.4400	36.57	-0.49	36.08	46.00	-9.92	QP
5	498.5100	38.55	-0.15	38.40	46.00	-7.60	QP
6	552.8300	34.93	1.13	36.06	46.00	-9.94	QP

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

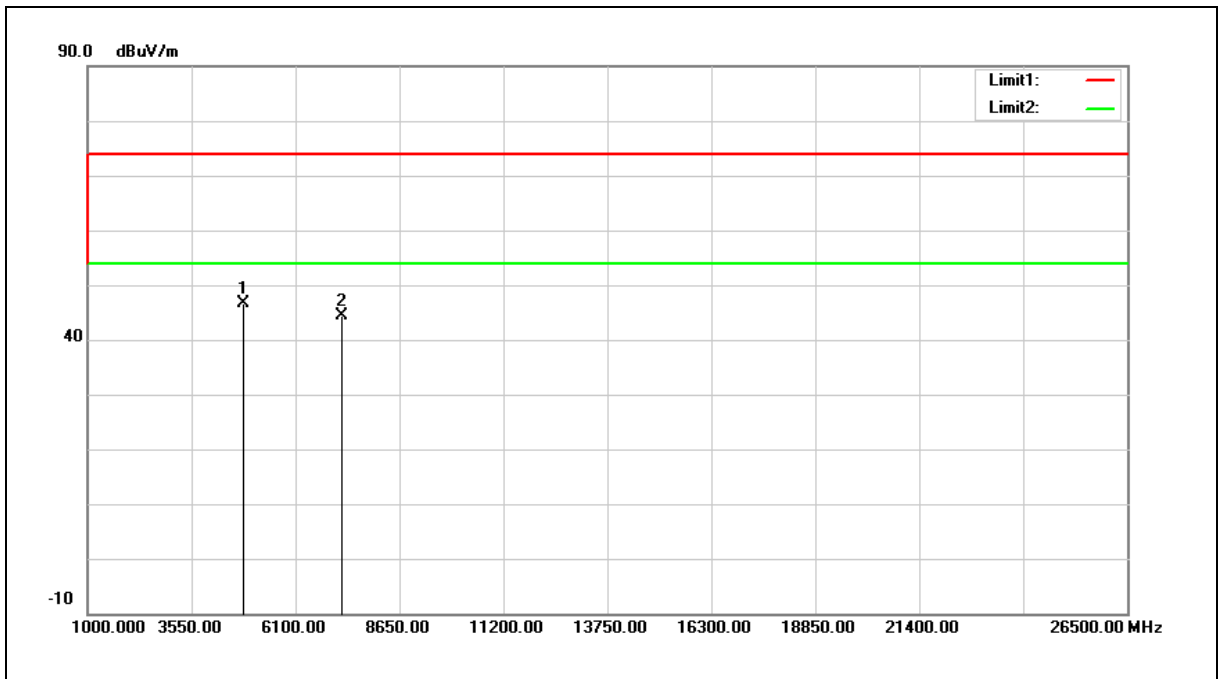
Example: $35.98 = -5.75 + 41.73$

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:	2412 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	4824.000	40.77	5.97	46.74	74.00	-27.26	peak
2	7236.000	31.81	12.48	44.29	74.00	-29.71	peak

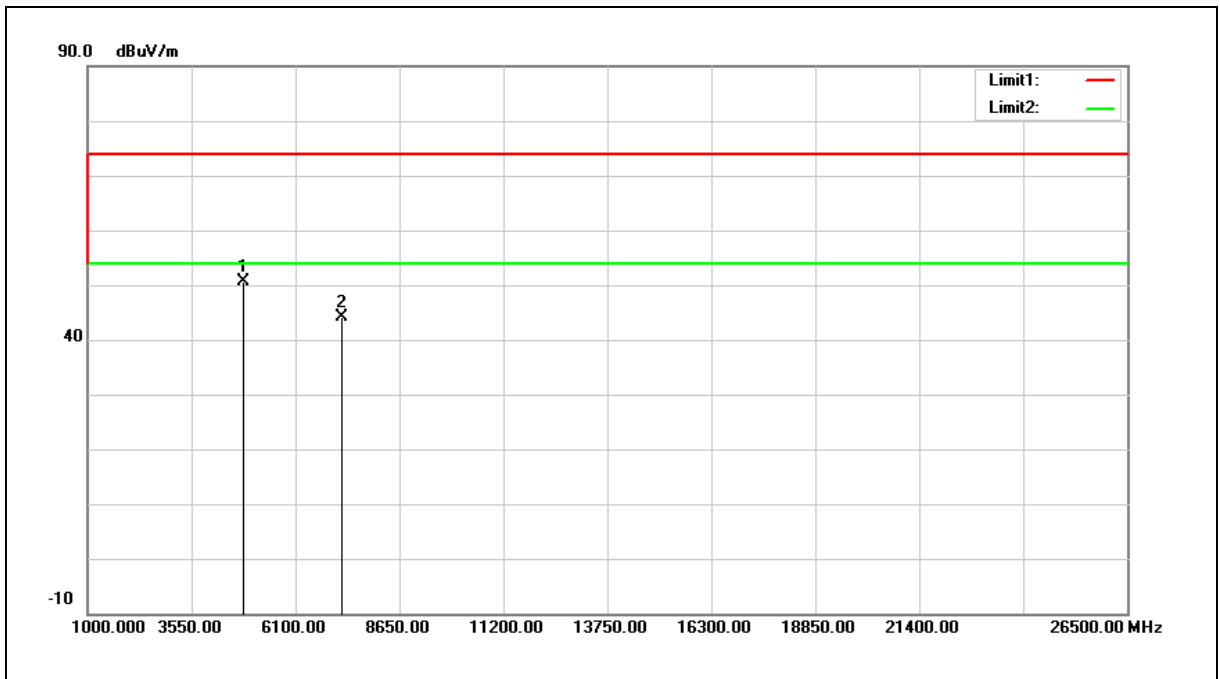
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $46.74 = 5.97 + 40.77$

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:	2412 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	4824.000	44.73	5.97	50.70	74.00	-23.30	peak
2	7236.000	31.69	12.48	44.17	74.00	-29.83	peak

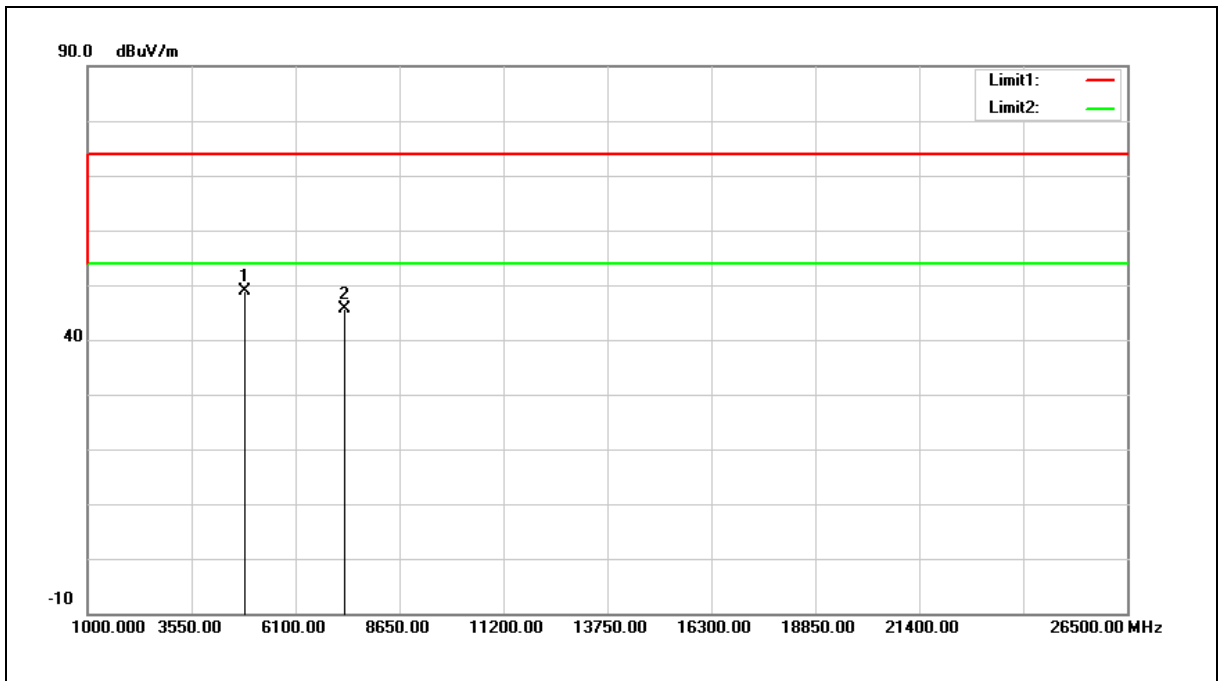
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $50.70 = 5.97 + 44.73$

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



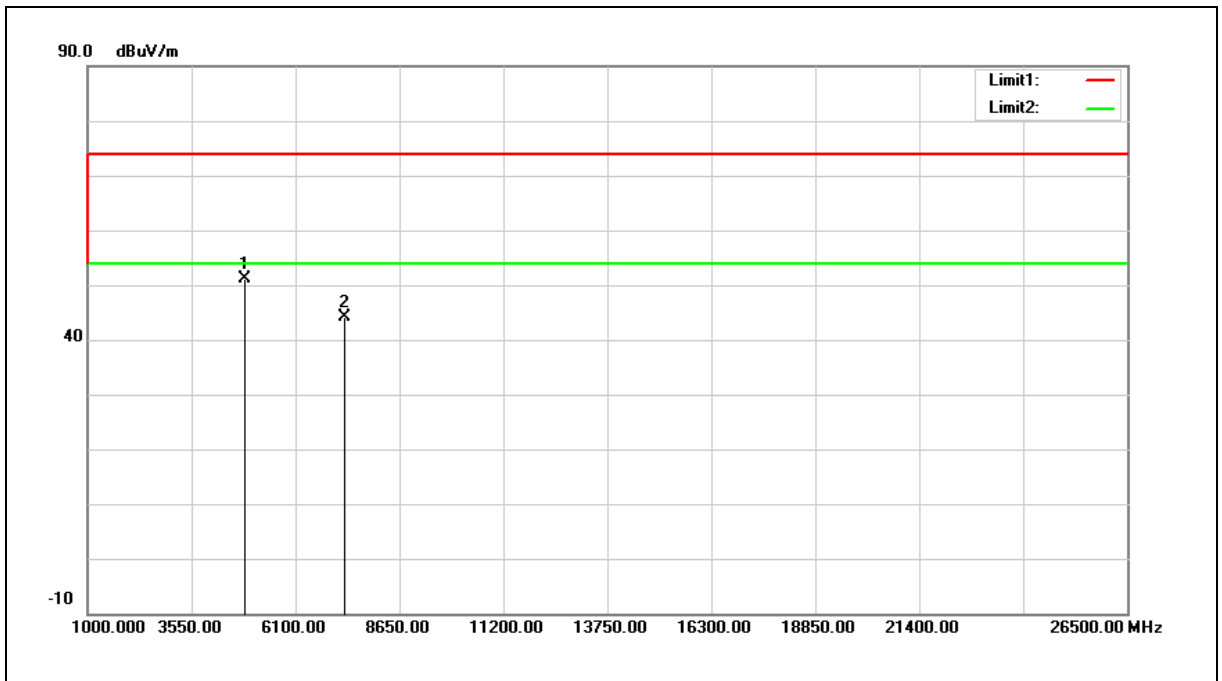
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	42.76	6.12	48.88	74.00	-25.12	peak
2	7311.000	32.83	12.73	45.56	74.00	-28.44	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



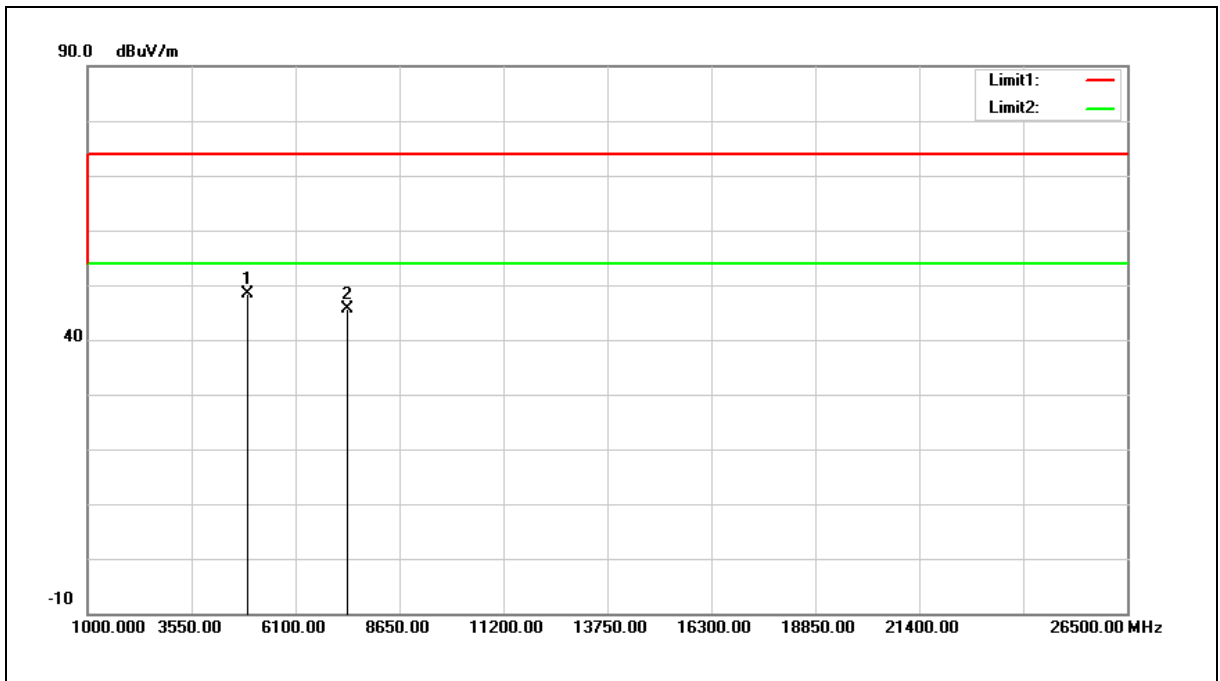
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	44.97	6.12	51.09	74.00	-22.91	peak
2	7311.000	31.46	12.73	44.19	74.00	-29.81	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



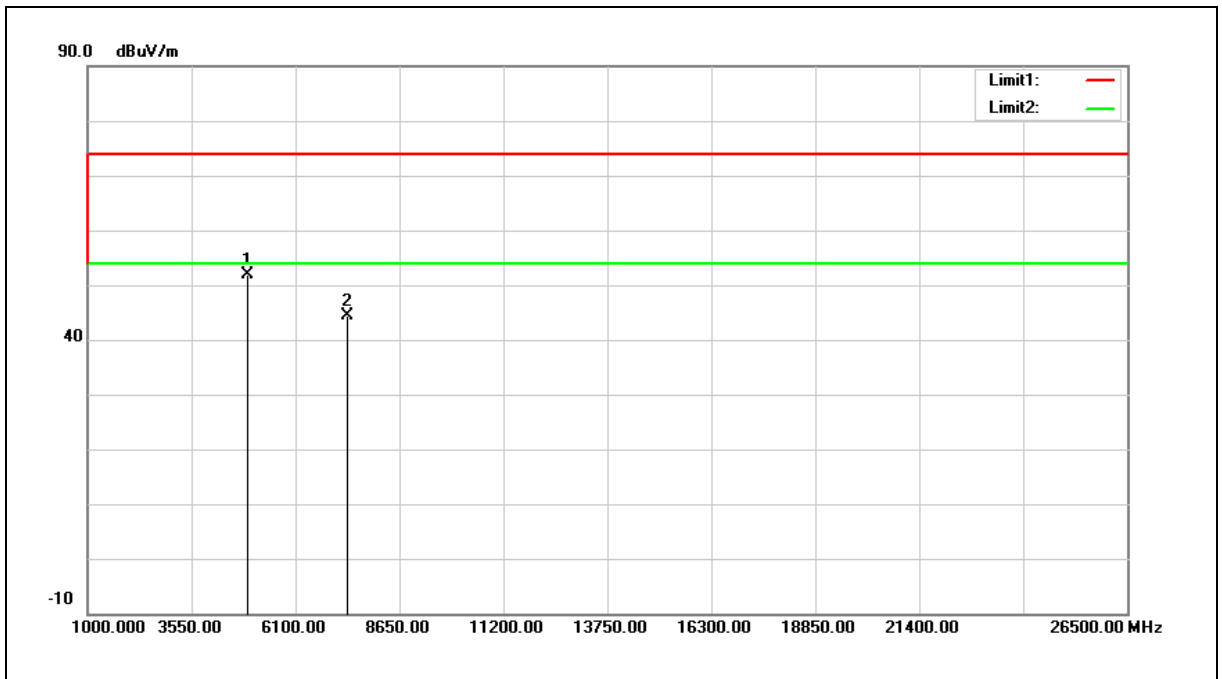
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	42.20	6.28	48.48	74.00	-25.52	peak
2	7386.000	32.64	12.99	45.63	74.00	-28.37	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



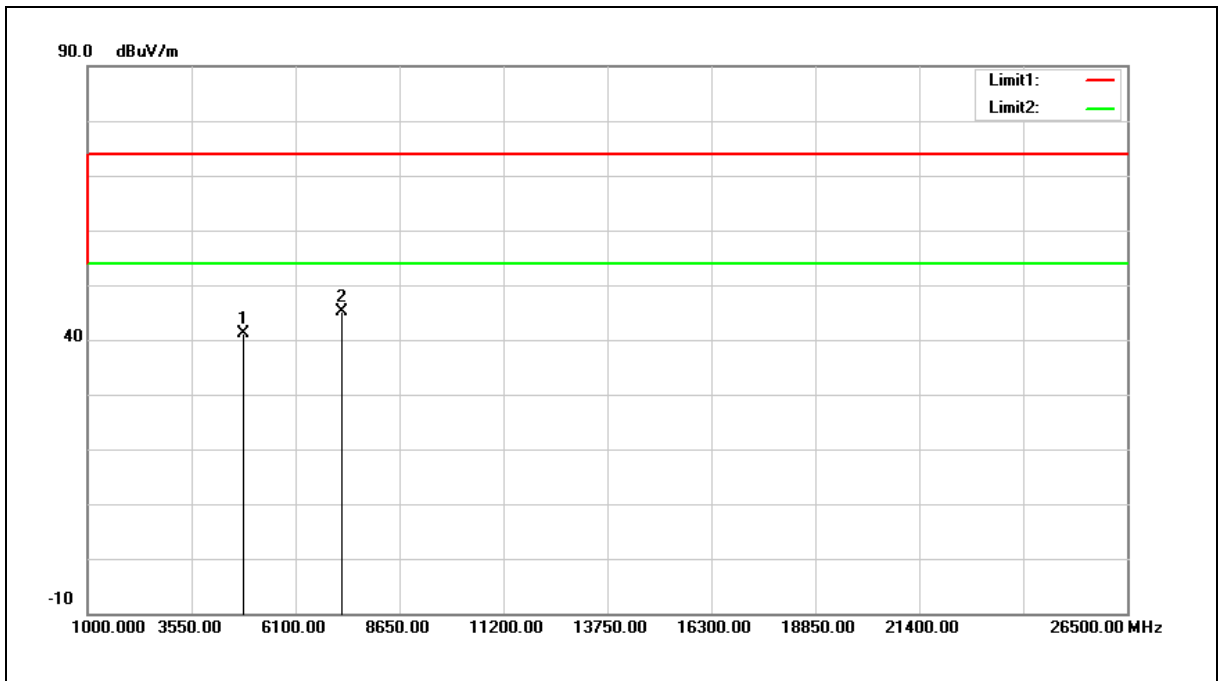
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	45.65	6.28	51.93	74.00	-22.07	peak
2	7386.000	31.27	12.99	44.26	74.00	-29.74	peak

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:	Harmonic	Power:	AC 110 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



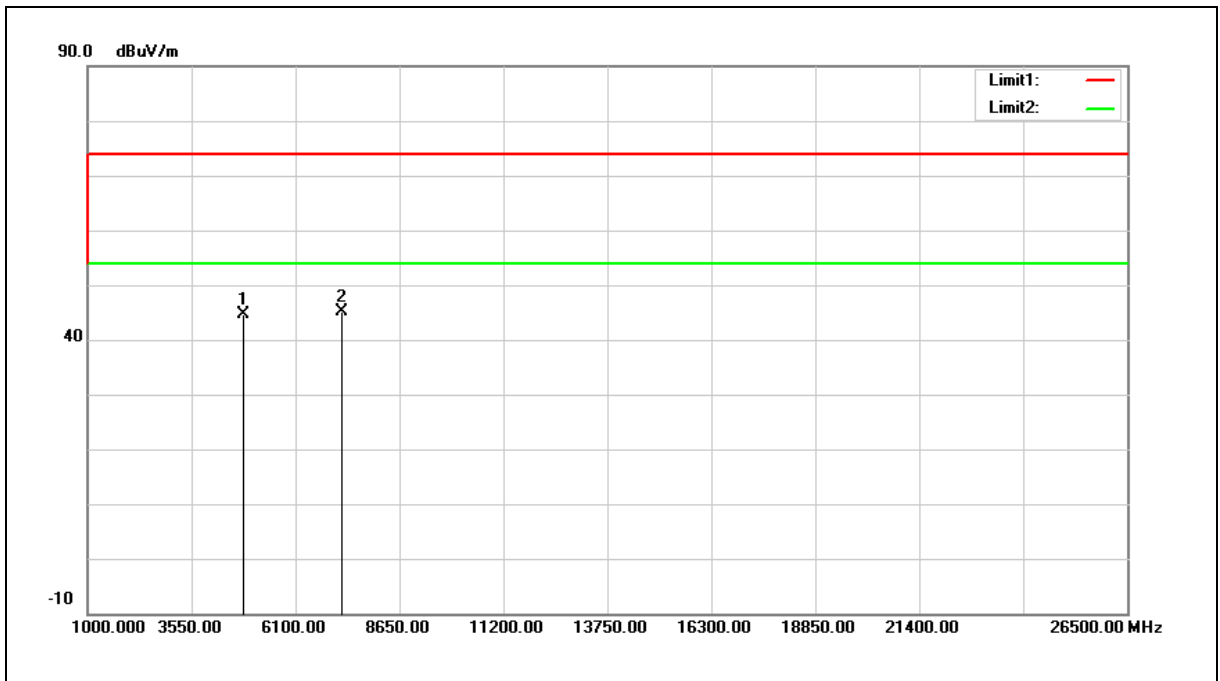
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	35.16	5.97	41.13	74.00	-32.87	peak
2	7236.000	32.63	12.48	45.11	74.00	-28.89	peak

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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



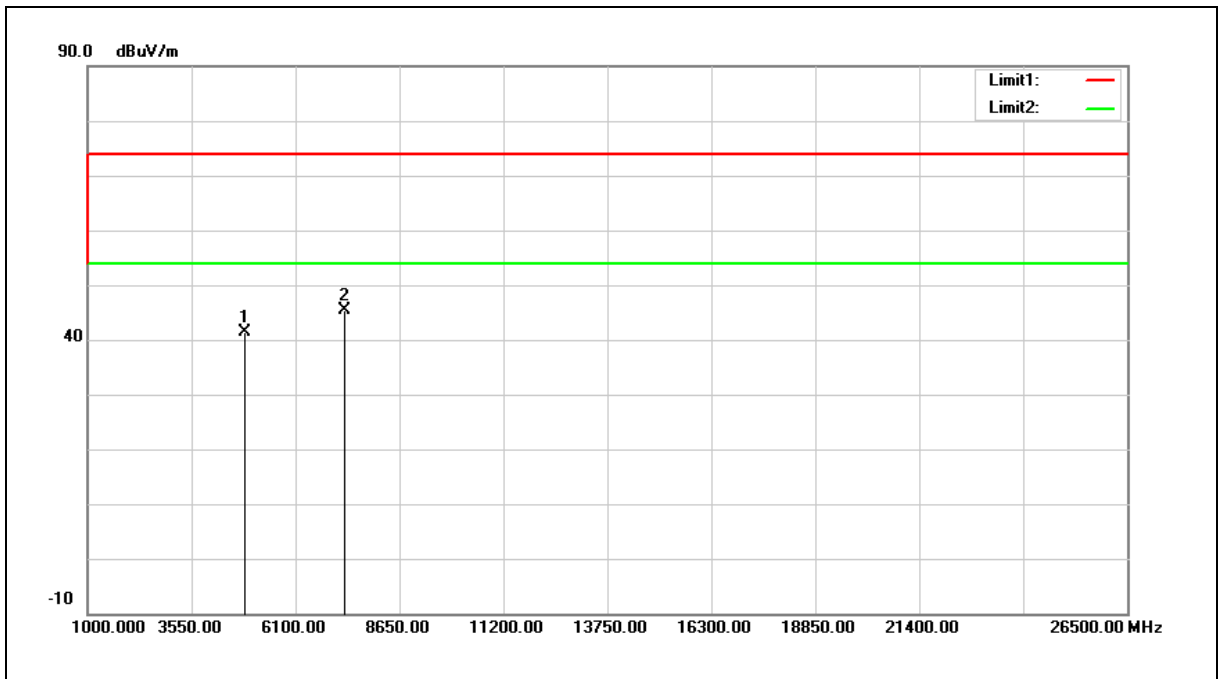
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	38.64	5.97	44.61	74.00	-29.39	peak
2	7236.000	32.73	12.48	45.21	74.00	-28.79	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



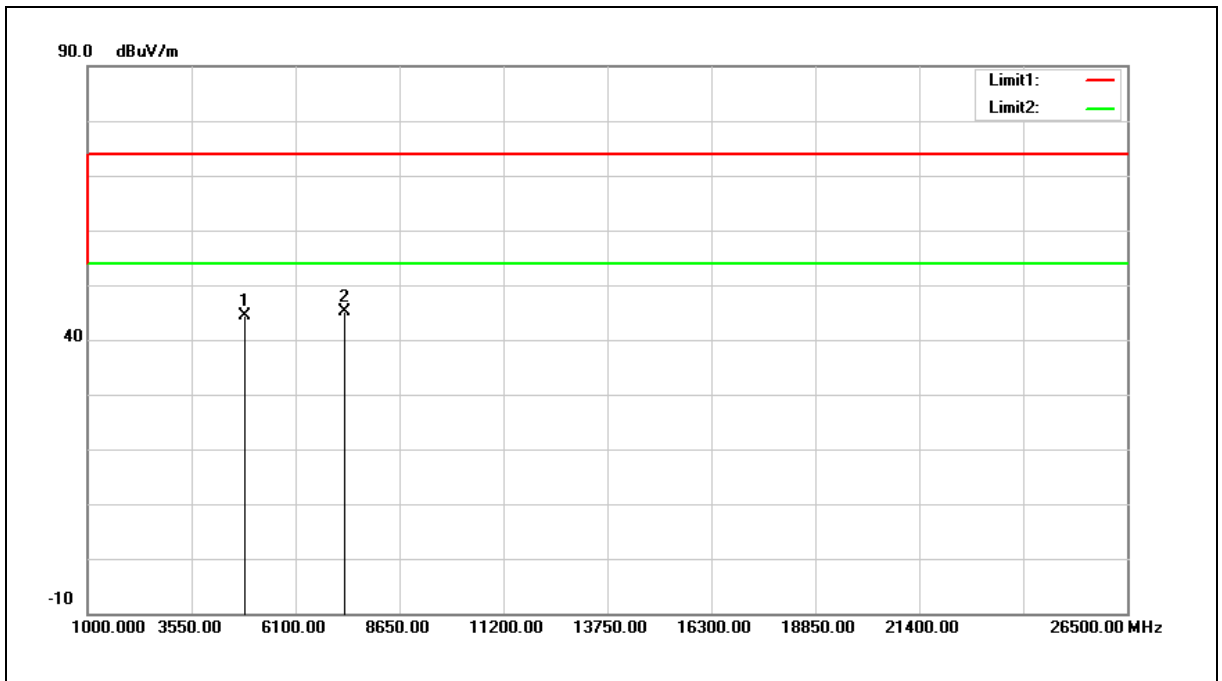
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	35.21	6.12	41.33	74.00	-32.67	peak
2	7311.000	32.65	12.73	45.38	74.00	-28.62	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



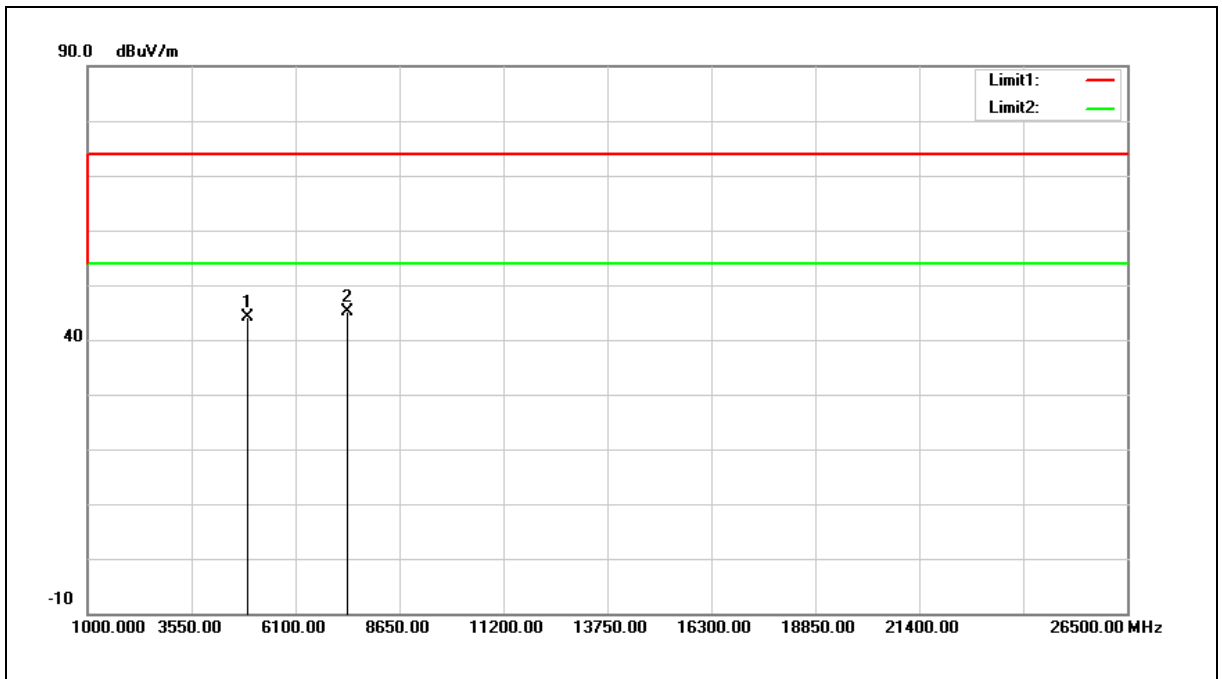
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	38.18	6.12	44.30	74.00	-29.70	peak
2	7311.000	32.50	12.73	45.23	74.00	-28.77	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



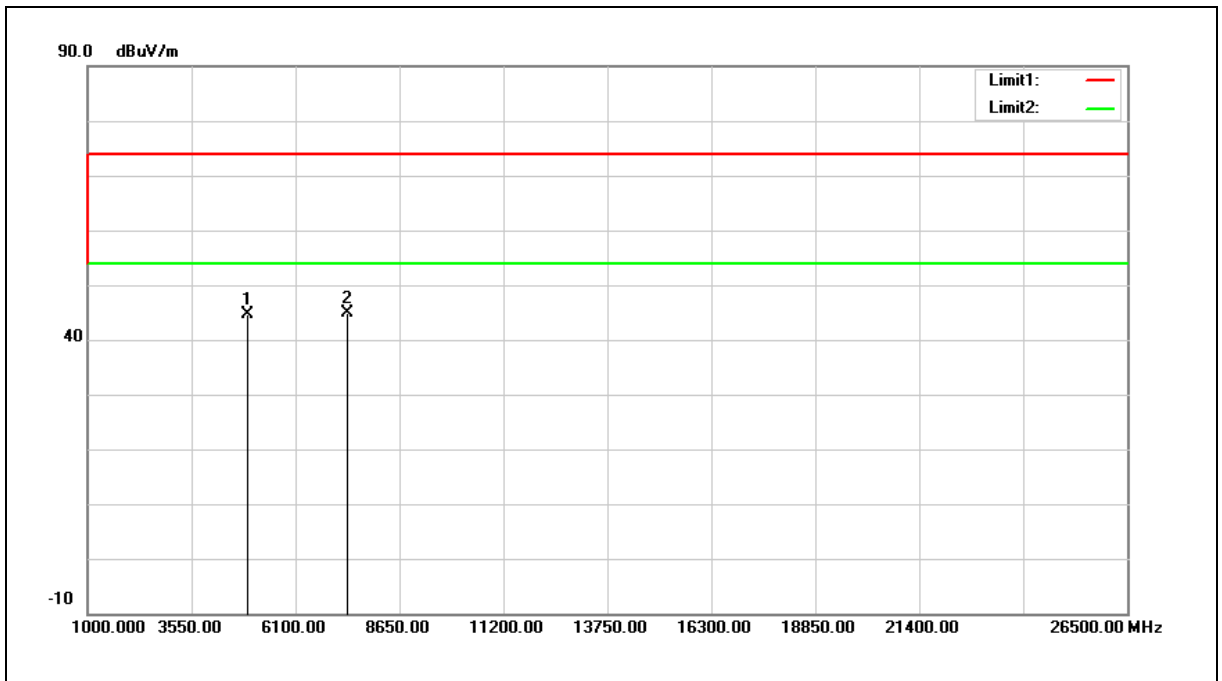
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	37.94	6.28	44.22	74.00	-29.78	peak
2	7386.000	32.03	12.99	45.02	74.00	-28.98	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



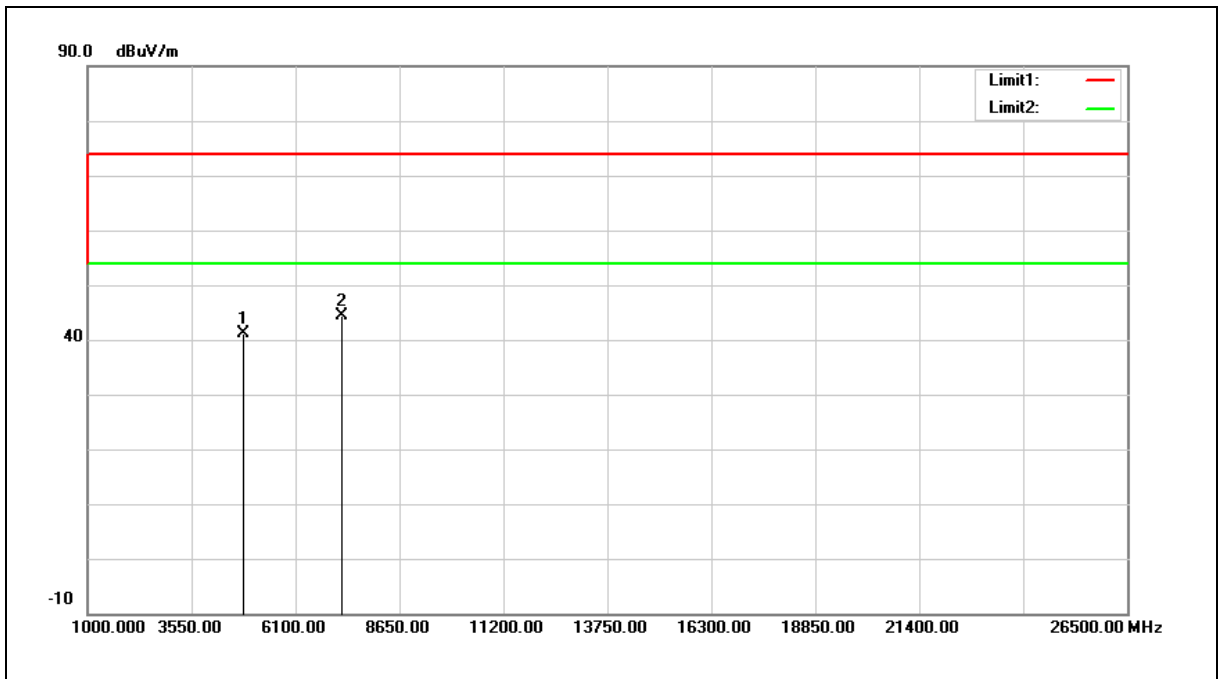
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	38.39	6.28	44.67	74.00	-29.33	peak
2	7386.000	31.81	12.99	44.80	74.00	-29.20	peak

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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



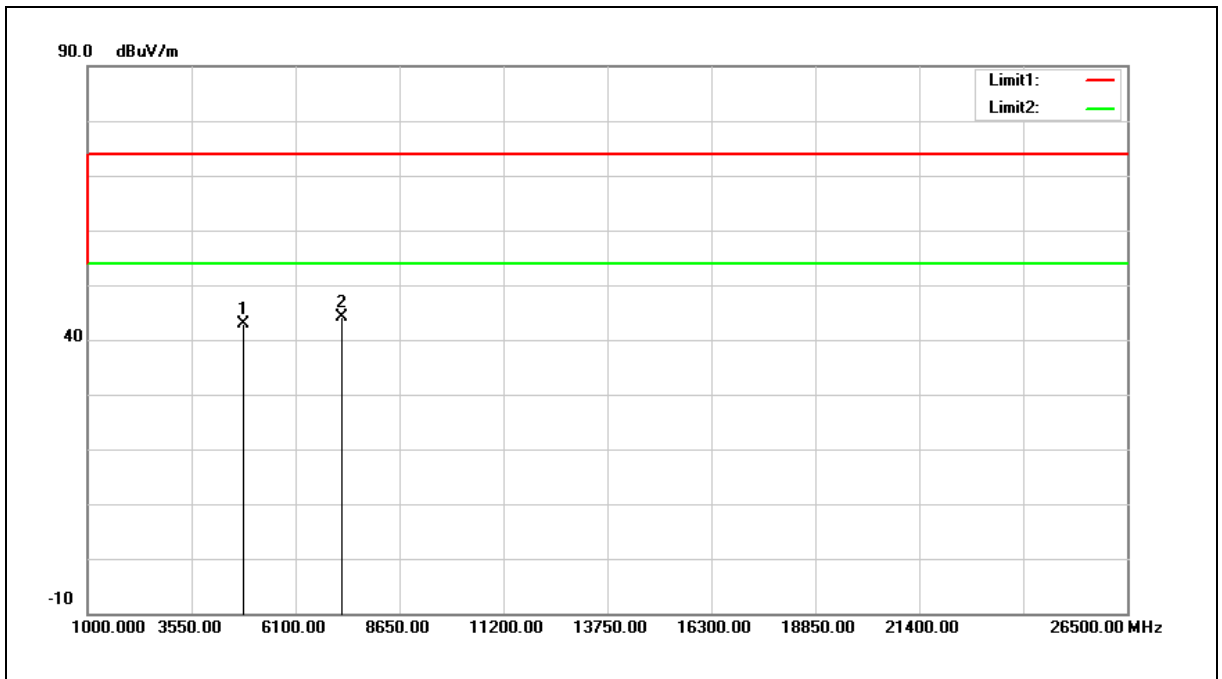
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	35.25	5.97	41.22	74.00	-32.78	peak
2	7236.000	31.84	12.48	44.32	74.00	-29.68	peak

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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



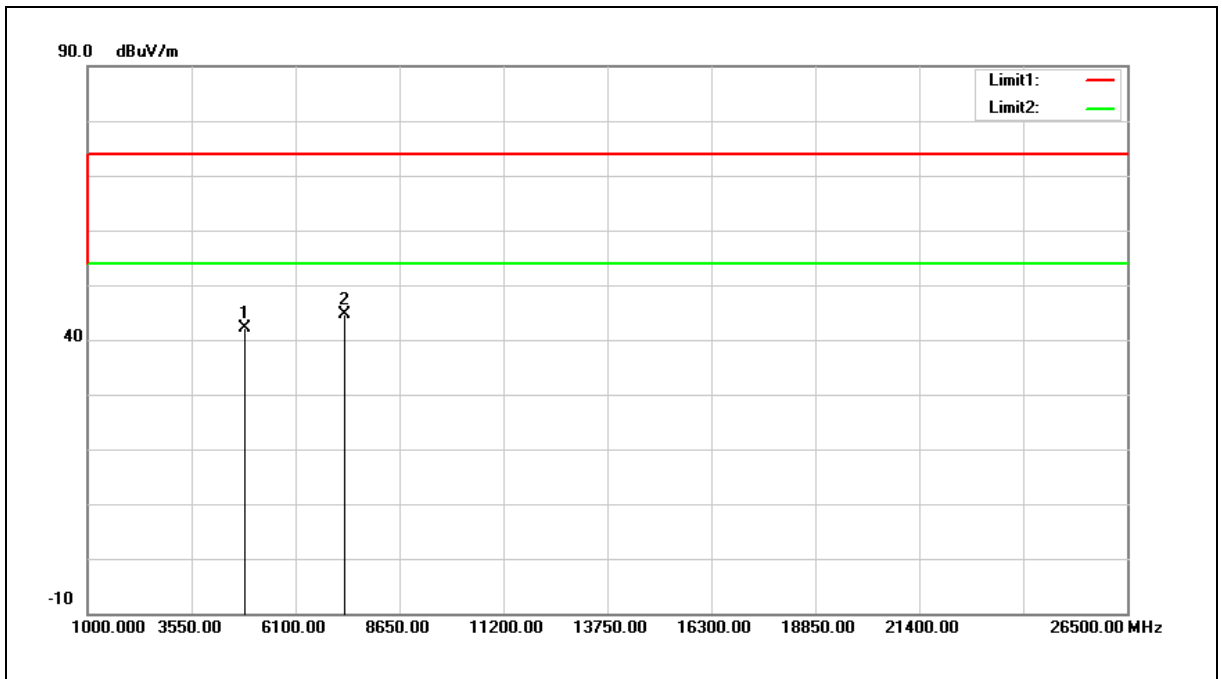
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	37.02	5.97	42.99	74.00	-31.01	peak
2	7236.000	31.57	12.48	44.05	74.00	-29.95	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



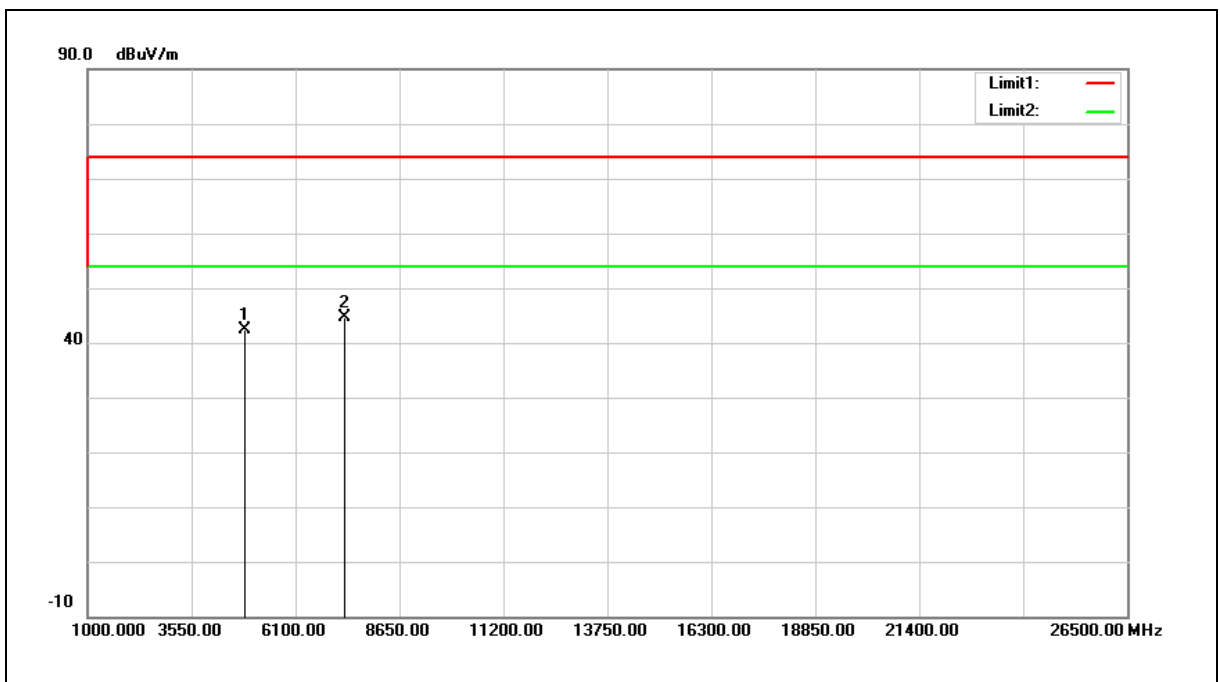
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.12	6.12	42.24	74.00	-31.76	peak
2	7311.000	31.99	12.73	44.72	74.00	-29.28	peak

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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



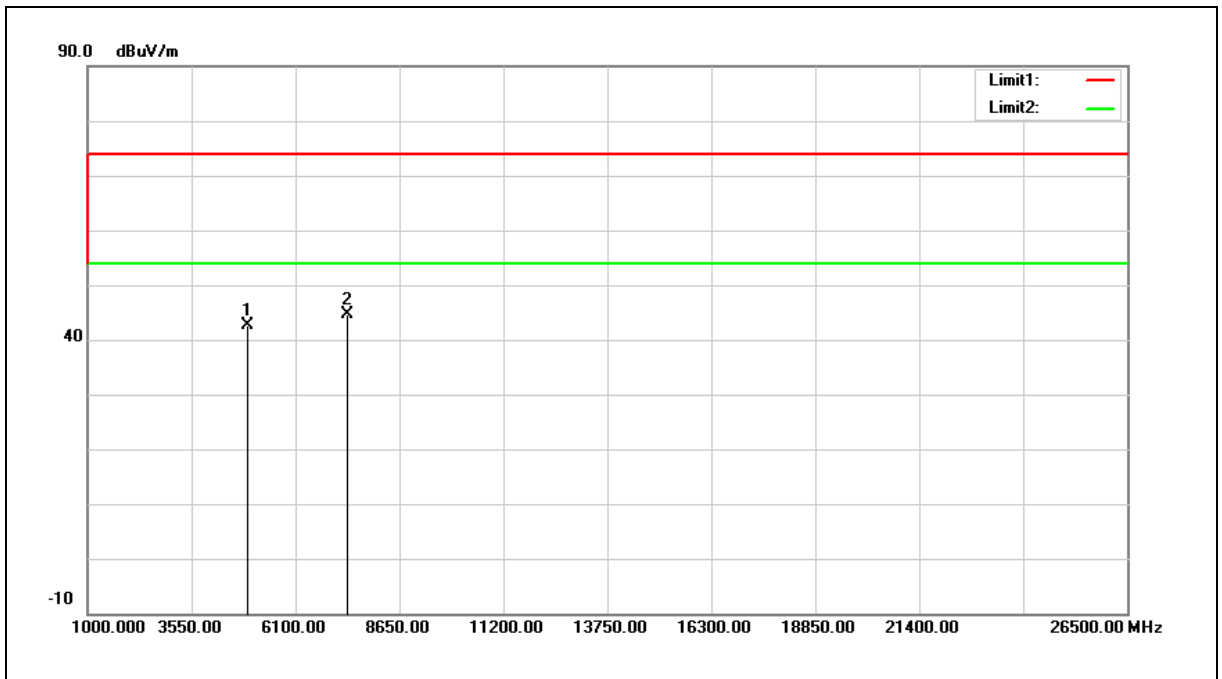
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	36.17	6.12	42.29	74.00	-31.71	peak
2	7311.000	31.97	12.73	44.70	74.00	-29.30	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



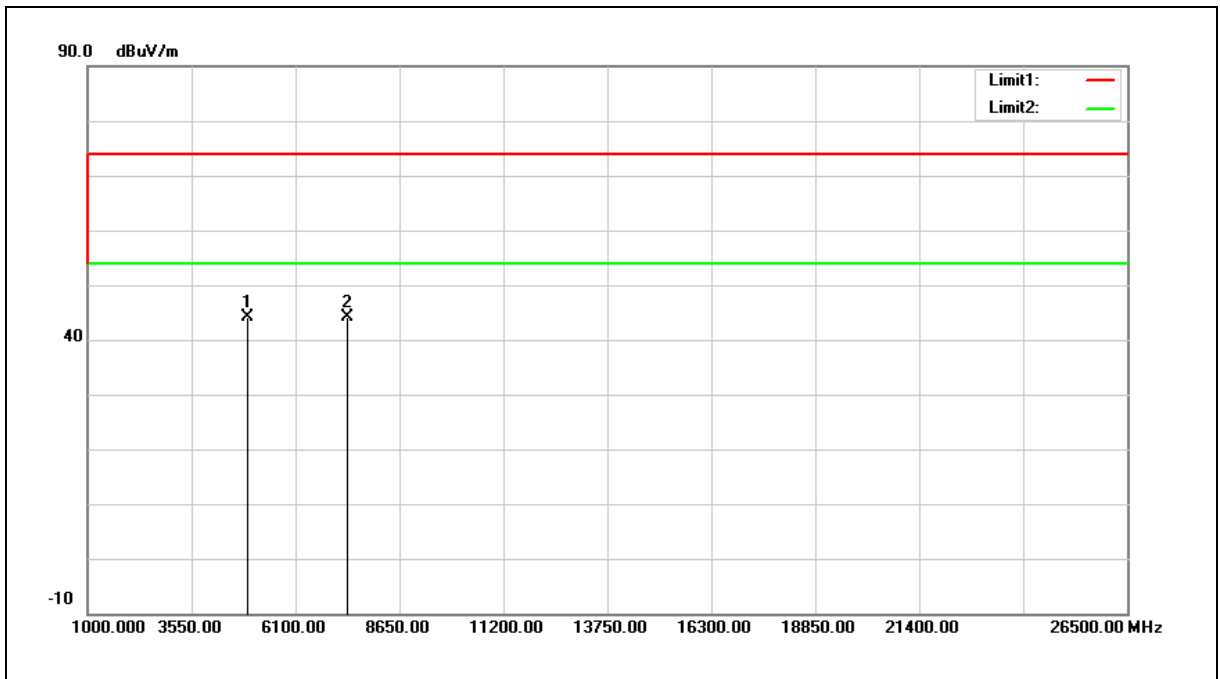
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	36.38	6.28	42.66	74.00	-31.34	peak
2	7386.000	31.53	12.99	44.52	74.00	-29.48	peak

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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



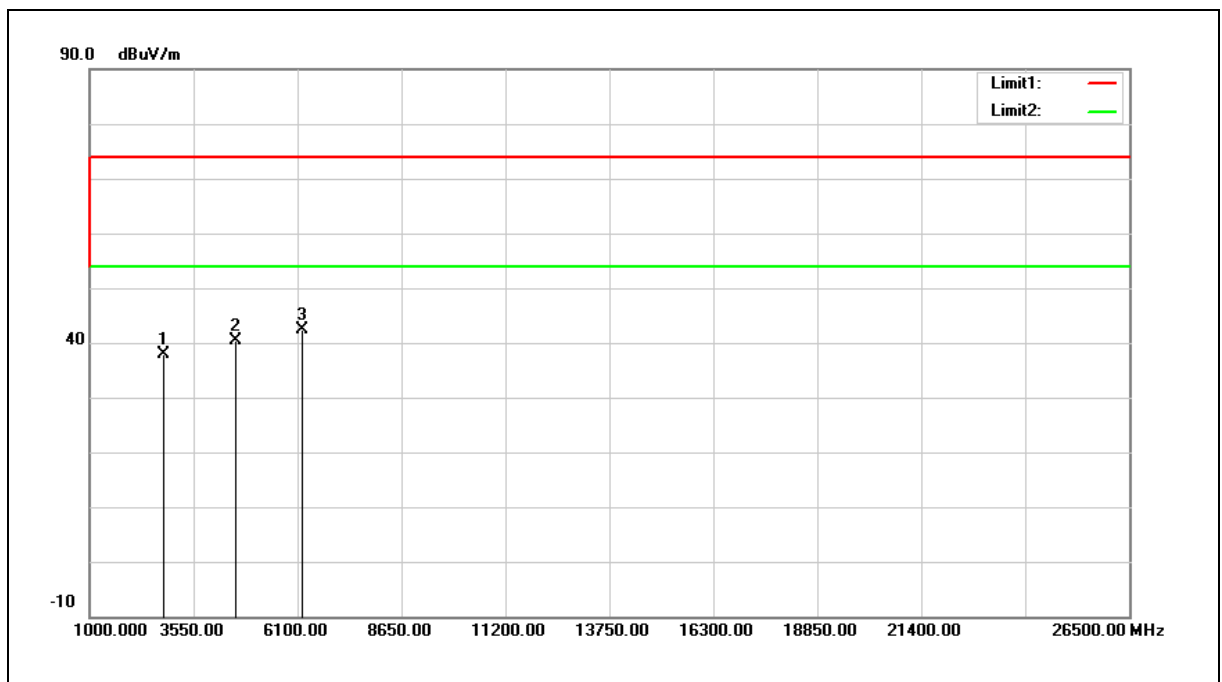
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	37.81	6.28	44.09	74.00	-29.91	peak
2	7386.000	31.02	12.99	44.01	74.00	-29.99	peak

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 5	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Ant.Polar.:	Horizontal		
Description:			



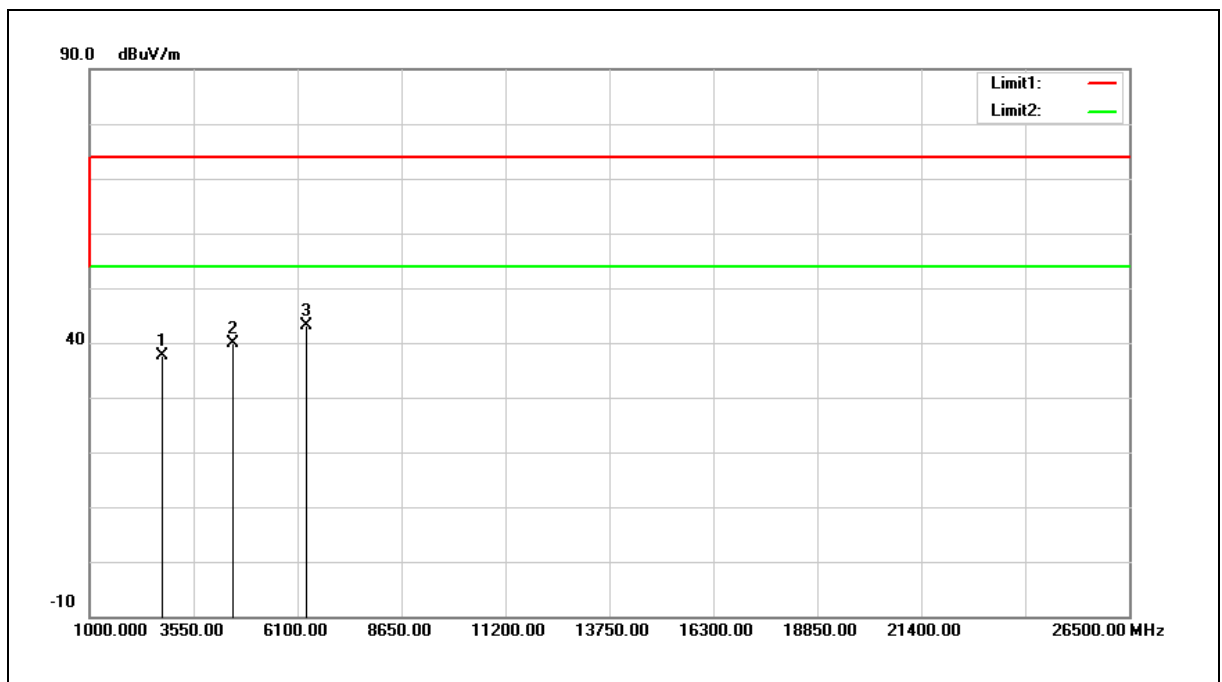
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2802.000	37.38	0.56	37.94	74.00	-36.06	peak
2	4570.000	35.15	5.19	40.34	74.00	-33.66	peak
3	6219.000	32.76	9.59	42.35	74.00	-31.65	peak

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 5	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	2785.000	37.00	0.52	37.52	74.00	-36.48	peak
2	4502.000	34.97	4.98	39.95	74.00	-34.05	peak
3	6321.000	33.29	9.90	43.19	74.00	-30.81	peak

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

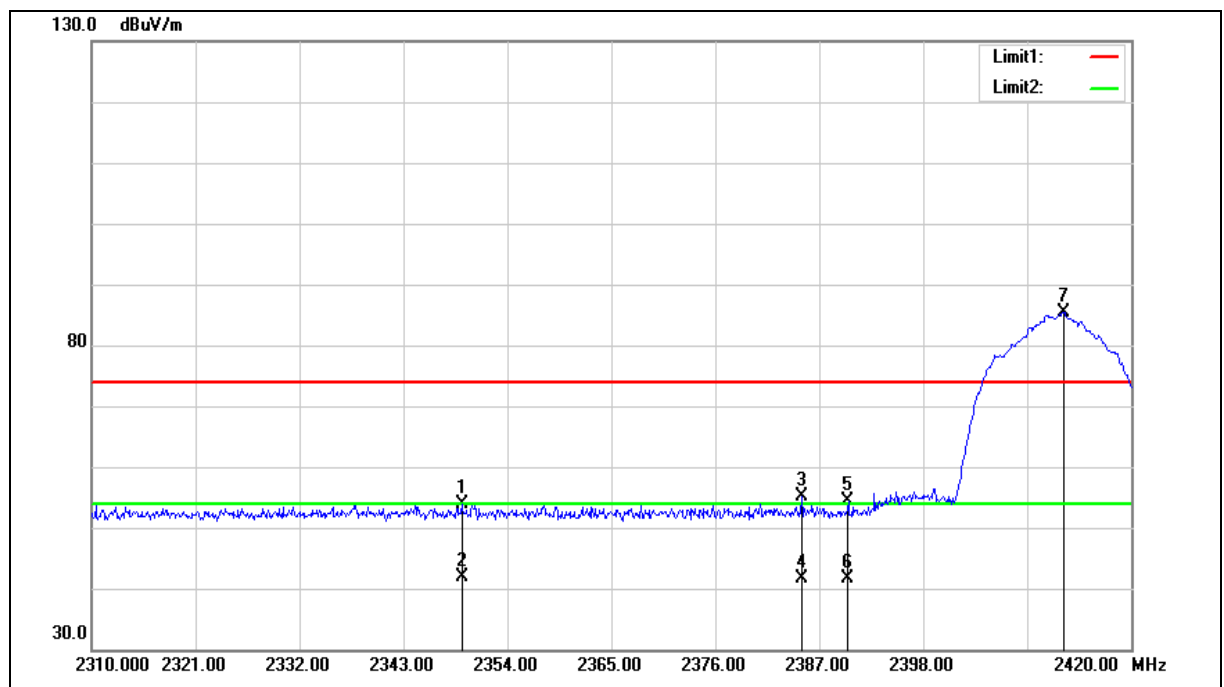
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

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:	2412 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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

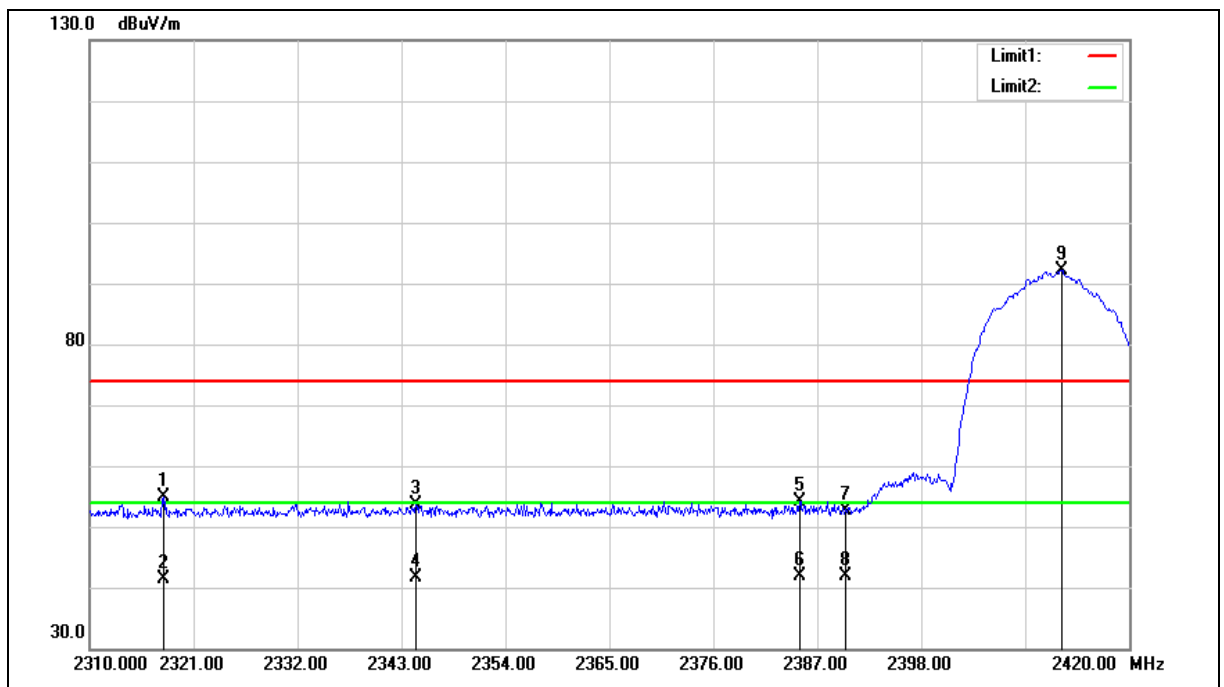
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2349.160	54.87	-1.07	53.80	74.00	-20.20	peak
2	2349.160	42.91	-1.07	41.84	54.00	-12.16	AVG
3	2385.130	55.97	-0.90	55.07	74.00	-18.93	peak
4	2385.130	42.57	-0.90	41.67	54.00	-12.33	AVG
5	2390.000	55.32	-0.87	54.45	74.00	-19.55	peak
6	2390.000	42.54	-0.87	41.67	54.00	-12.33	AVG
7	2412.850	86.12	-0.76	85.36	--	--	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:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2412 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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

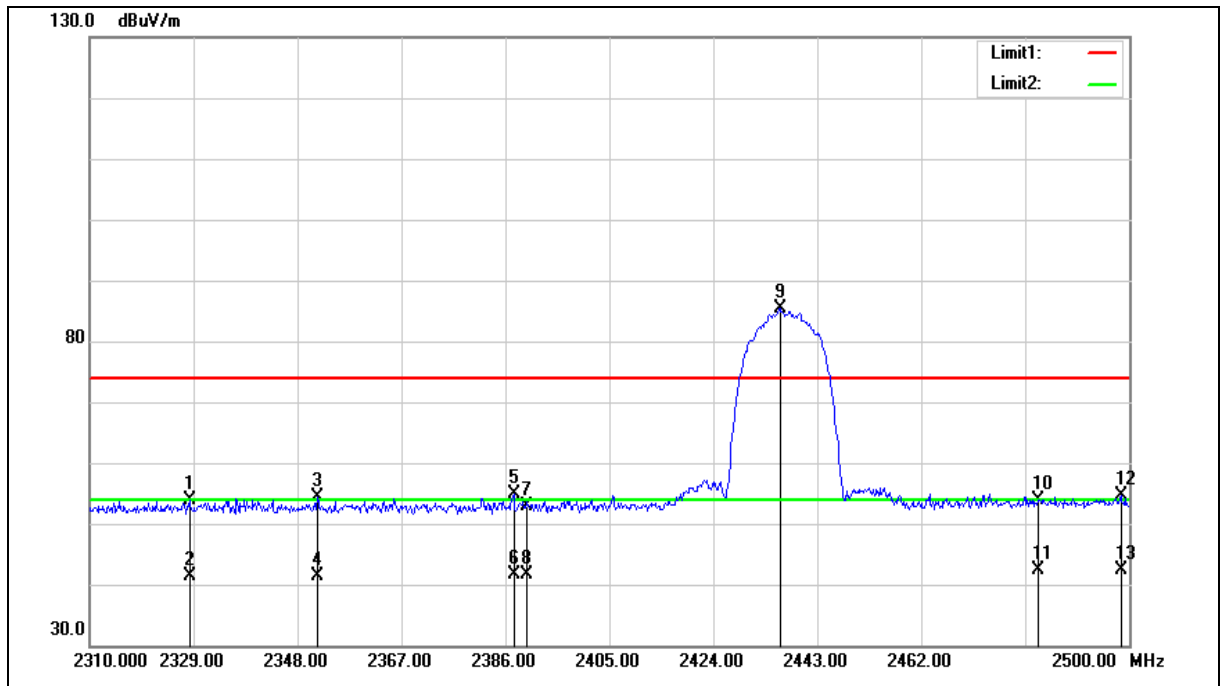
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2317.810	56.11	-1.23	54.88	74.00	-19.12	peak
2	2317.810	42.54	-1.23	41.31	54.00	-12.69	AVG
3	2344.540	54.69	-1.10	53.59	74.00	-20.41	peak
4	2344.540	42.62	-1.10	41.52	54.00	-12.48	AVG
5	2385.130	54.95	-0.90	54.05	74.00	-19.95	peak
6	2385.130	42.71	-0.90	41.81	54.00	-12.19	AVG
7	2390.000	53.53	-0.87	52.66	74.00	-21.34	peak
8	2390.000	42.84	-0.87	41.97	54.00	-12.03	AVG
9	2412.850	92.87	-0.76	92.11	--	--	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:	2437 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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

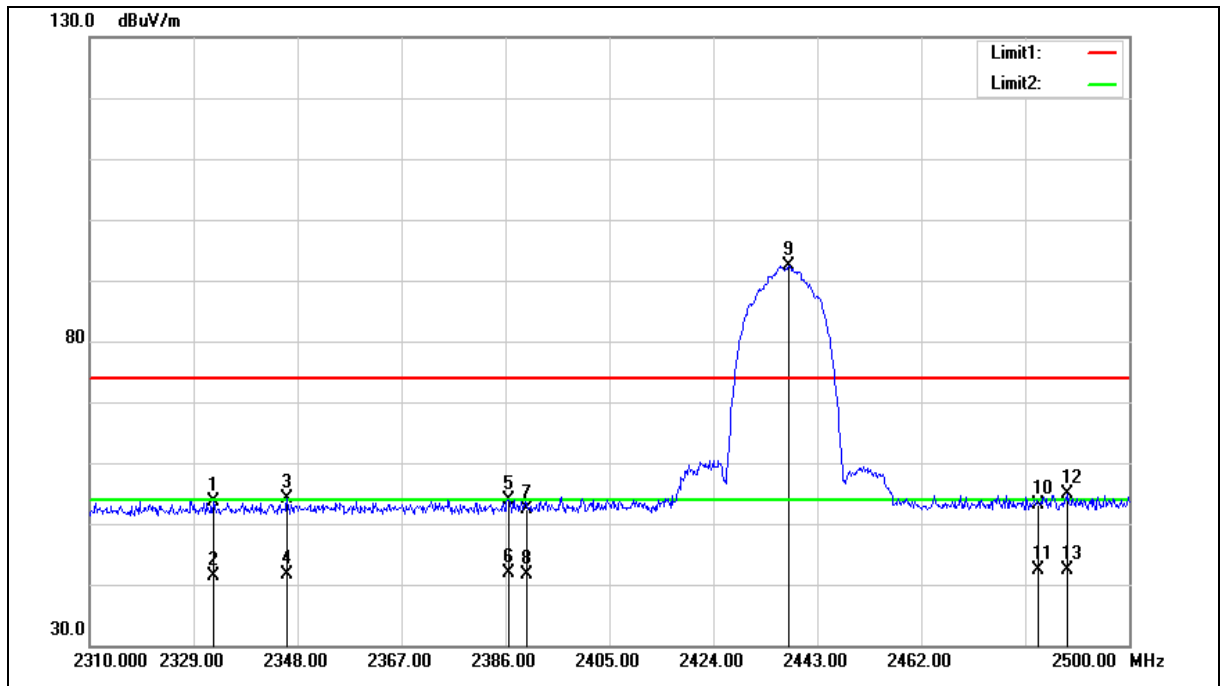
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2328.240	55.07	-1.18	53.89	74.00	-20.11	peak
2	2328.240	42.60	-1.18	41.42	54.00	-12.58	AVG
3	2351.610	55.40	-1.06	54.34	74.00	-19.66	peak
4	2351.610	42.54	-1.06	41.48	54.00	-12.52	AVG
5	2387.520	55.73	-0.88	54.85	74.00	-19.15	peak
6	2387.520	42.59	-0.88	41.71	54.00	-12.29	AVG
7	2390.000	53.82	-0.87	52.95	74.00	-21.05	peak
8	2390.000	42.58	-0.87	41.71	54.00	-12.29	AVG
9	2436.160	85.91	-0.64	85.27	--	--	peak
10	2483.500	54.33	-0.40	53.93	74.00	-20.07	peak
11	2483.500	42.75	-0.40	42.35	54.00	-11.65	AVG
12	2498.480	54.95	-0.32	54.63	74.00	-19.37	peak
13	2498.480	42.77	-0.32	42.45	54.00	-11.55	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:	2437 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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

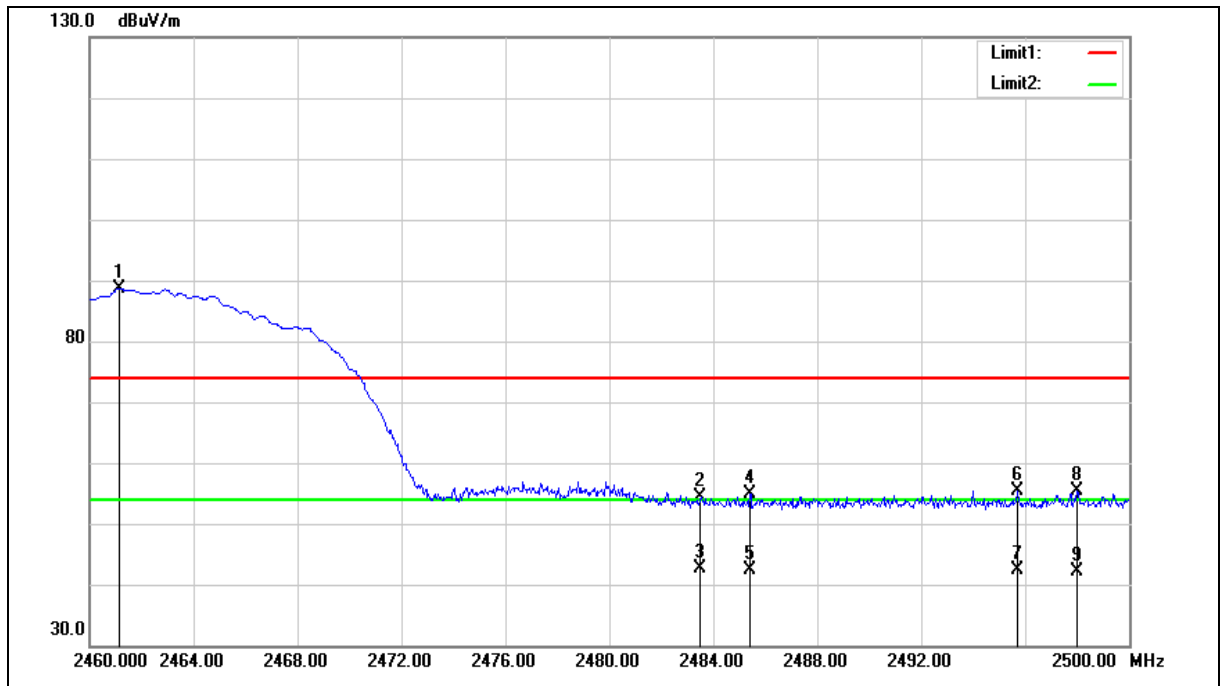
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2332.610	54.85	-1.16	53.69	74.00	-20.31	peak
2	2332.610	42.64	-1.16	41.48	54.00	-12.52	AVG
3	2346.100	55.30	-1.08	54.22	74.00	-19.78	peak
4	2346.100	42.63	-1.08	41.55	54.00	-12.45	AVG
5	2386.570	54.90	-0.90	54.00	74.00	-20.00	peak
6	2386.570	42.77	-0.90	41.87	54.00	-12.13	AVG
7	2390.000	53.22	-0.87	52.35	74.00	-21.65	peak
8	2390.000	42.59	-0.87	41.72	54.00	-12.28	AVG
9	2437.870	93.10	-0.63	92.47	--	--	peak
10	2483.500	53.55	-0.40	53.15	74.00	-20.85	peak
11	2483.500	42.78	-0.40	42.38	54.00	-11.62	AVG
12	2488.790	55.18	-0.37	54.81	74.00	-19.19	peak
13	2488.790	42.84	-0.37	42.47	54.00	-11.53	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:	2462 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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

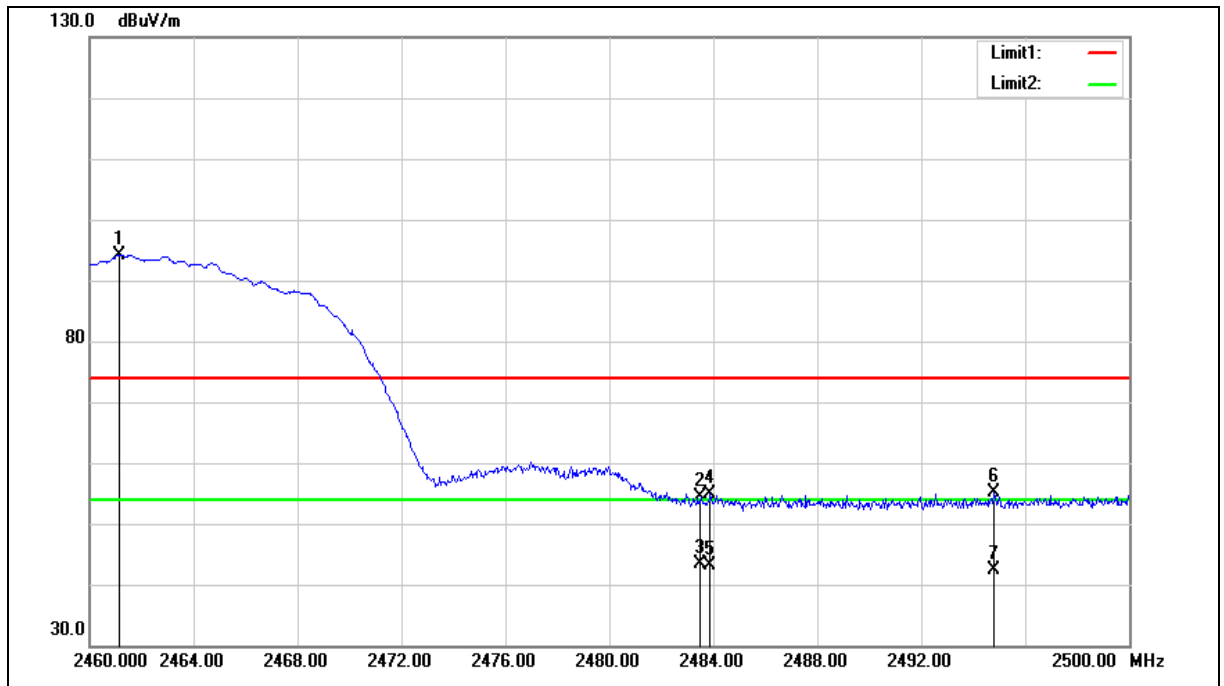
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.120	89.16	-0.51	88.65	--	--	peak
2	2483.500	54.68	-0.40	54.28	74.00	-19.72	peak
3	2483.500	43.03	-0.40	42.63	54.00	-11.37	AVG
4	2485.400	55.33	-0.39	54.94	74.00	-19.06	peak
5	2485.400	42.77	-0.39	42.38	54.00	-11.62	AVG
6	2495.680	55.73	-0.33	55.40	74.00	-18.60	peak
7	2495.680	42.69	-0.33	42.36	54.00	-11.64	AVG
8	2498.000	55.69	-0.32	55.37	74.00	-18.63	peak
9	2498.000	42.56	-0.32	42.24	54.00	-11.76	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:	2462 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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

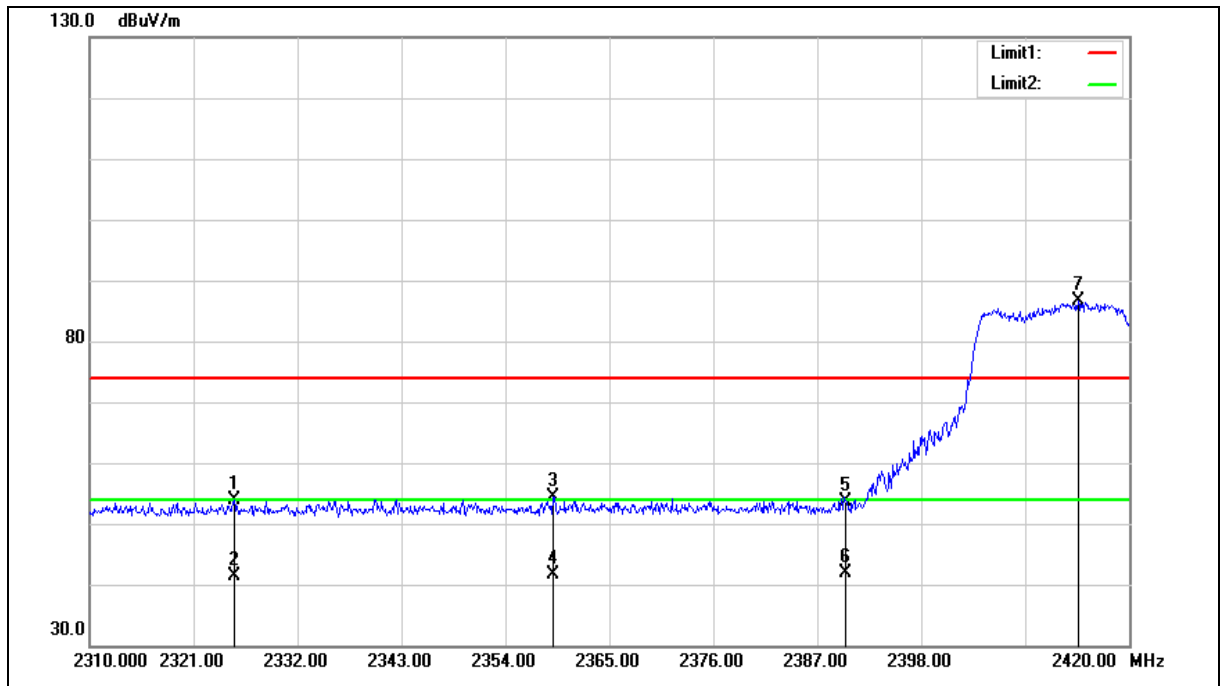
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.160	94.75	-0.51	94.24	--	--	peak
2	2483.500	54.70	-0.40	54.30	74.00	-19.70	peak
3	2483.500	43.66	-0.40	43.26	54.00	-10.74	AVG
4	2483.880	55.37	-0.39	54.98	74.00	-19.02	peak
5	2483.880	43.49	-0.39	43.10	54.00	-10.90	AVG
6	2494.800	55.37	-0.34	55.03	74.00	-18.97	peak
7	2494.800	42.80	-0.34	42.46	54.00	-11.54	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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

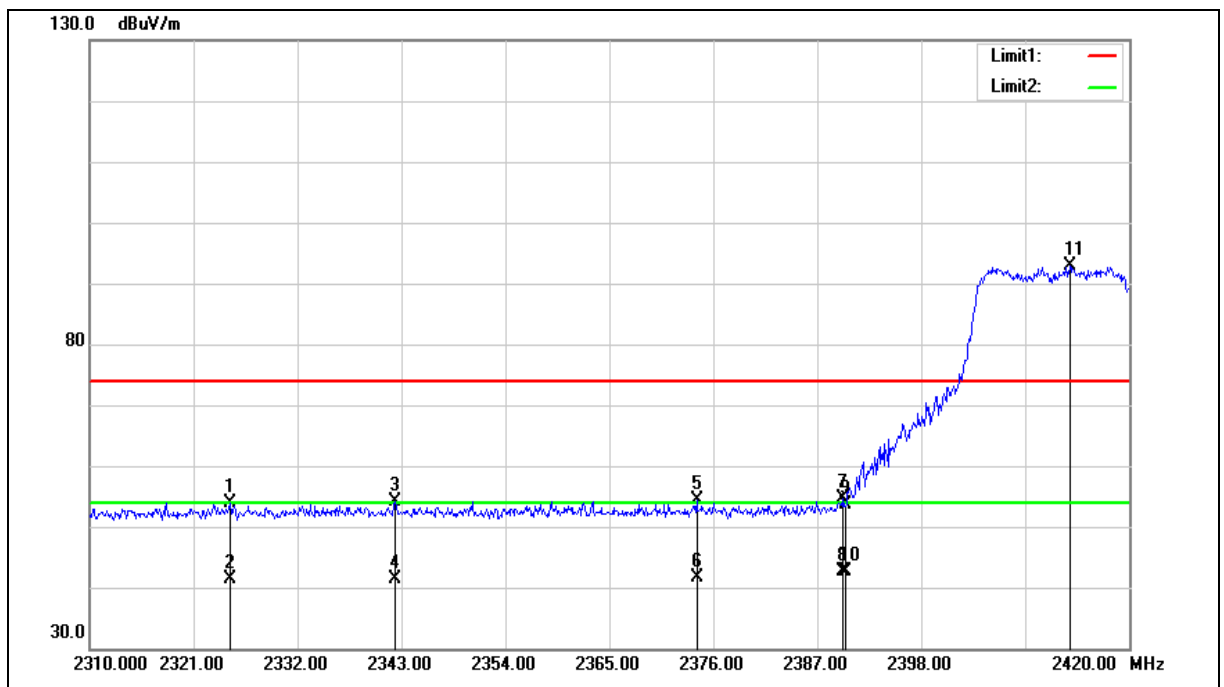
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2325.290	55.02	-1.19	53.83	74.00	-20.17	peak
2	2325.290	42.61	-1.19	41.42	54.00	-12.58	AVG
3	2359.060	55.34	-1.03	54.31	74.00	-19.69	peak
4	2359.060	42.56	-1.03	41.53	54.00	-12.47	AVG
5	2390.000	54.44	-0.87	53.57	74.00	-20.43	peak
6	2390.000	42.81	-0.87	41.94	54.00	-12.06	AVG
7	2414.610	87.42	-0.75	86.67	--	--	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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

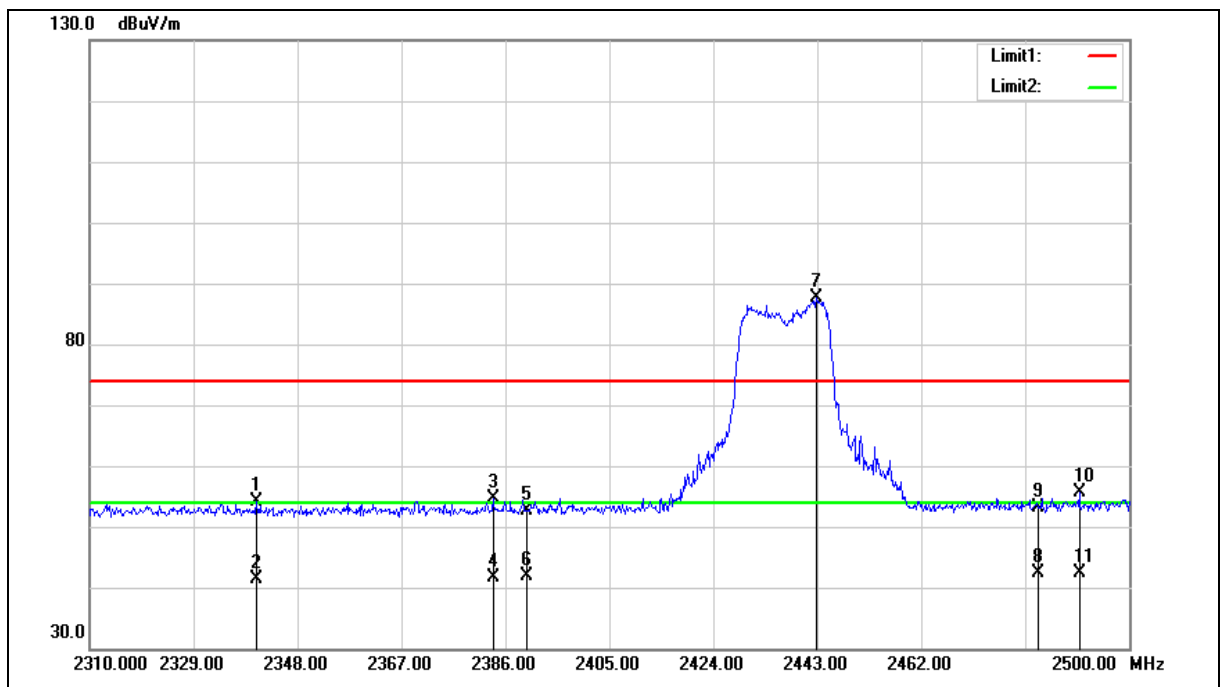
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2324.850	55.16	-1.20	53.96	74.00	-20.04	peak
2	2324.850	42.62	-1.20	41.42	54.00	-12.58	AVG
3	2342.340	55.34	-1.11	54.23	74.00	-19.77	peak
4	2342.340	42.56	-1.11	41.45	54.00	-12.55	AVG
5	2374.240	55.34	-0.96	54.38	74.00	-19.62	peak
6	2374.240	42.61	-0.96	41.65	54.00	-12.35	AVG
7	2389.750	55.51	-0.87	54.64	74.00	-19.36	peak
8	2389.750	43.54	-0.87	42.67	54.00	-11.33	AVG
9	2390.000	54.49	-0.87	53.62	74.00	-20.38	peak
10	2390.000	43.50	-0.87	42.63	54.00	-11.37	AVG
11	2413.730	93.54	-0.75	92.79	--	--	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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

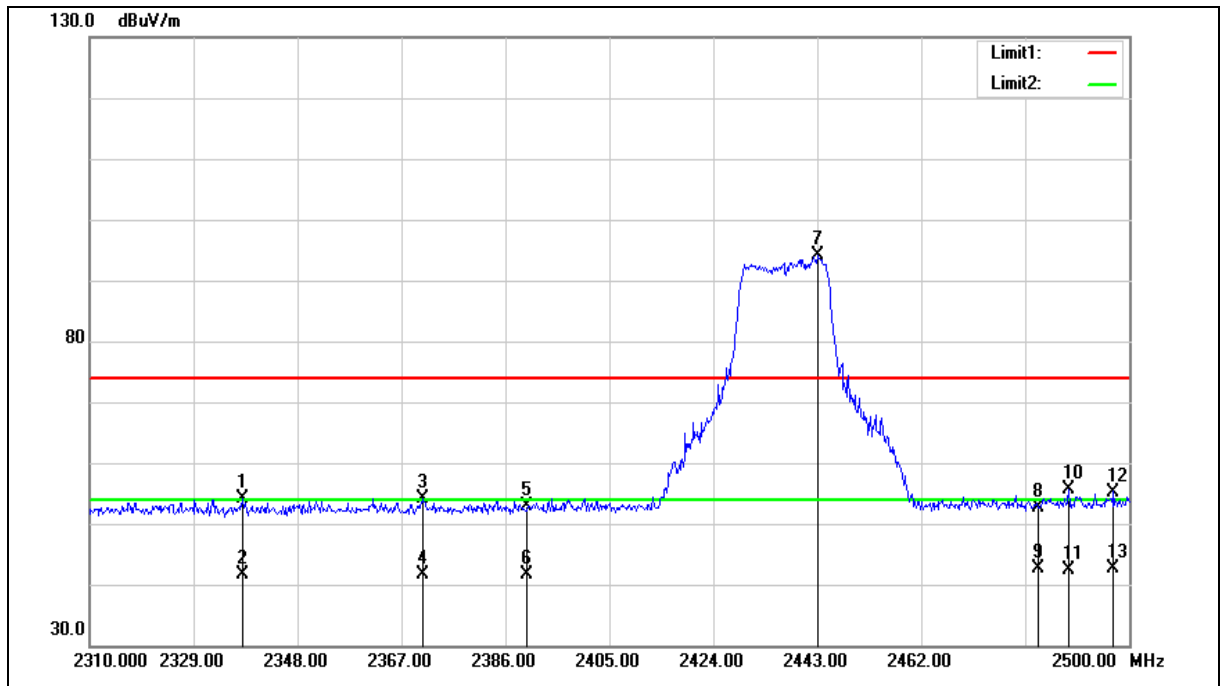
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2340.400	55.12	-1.11	54.01	74.00	-19.99	peak
2	2340.400	42.59	-1.11	41.48	54.00	-12.52	AVG
3	2383.720	55.46	-0.91	54.55	74.00	-19.45	peak
4	2383.720	42.61	-0.91	41.70	54.00	-12.30	AVG
5	2390.000	53.48	-0.87	52.61	74.00	-21.39	peak
6	2390.000	42.63	-0.87	41.76	54.00	-12.24	AVG
7	2442.810	88.11	-0.60	87.51	--	--	peak
8	2483.500	42.78	-0.40	42.38	74.00	-31.62	peak
9	2483.500	53.58	-0.40	53.18	54.00	-0.82	AVG
10	2490.880	56.03	-0.36	55.67	74.00	-18.33	peak
11	2490.880	42.73	-0.36	42.37	54.00	-11.63	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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

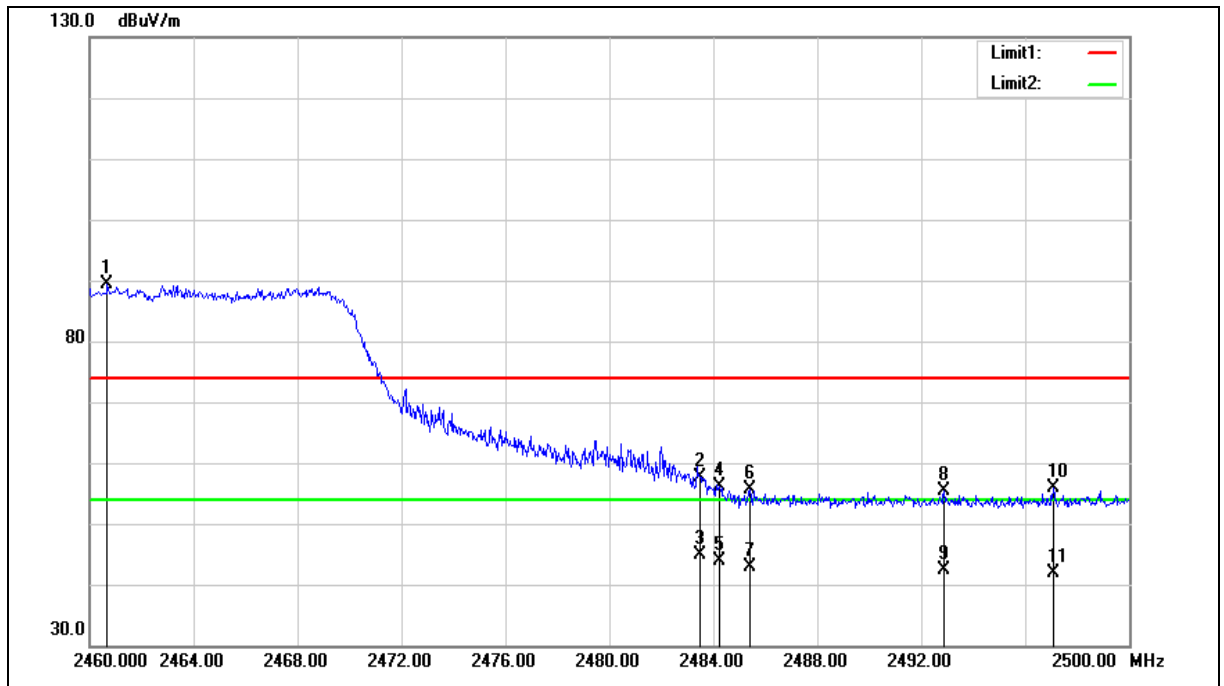
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2337.930	55.25	-1.13	54.12	74.00	-19.88	peak
2	2337.930	42.72	-1.13	41.59	54.00	-12.41	AVG
3	2370.990	55.19	-0.97	54.22	74.00	-19.78	peak
4	2370.990	42.64	-0.97	41.67	54.00	-12.33	AVG
5	2390.000	53.72	-0.87	52.85	74.00	-21.15	peak
6	2390.000	42.61	-0.87	41.74	54.00	-12.26	AVG
7	2443.000	94.76	-0.60	94.16	--	--	peak
8	2483.500	53.07	-0.40	52.67	74.00	-21.33	peak
9	2483.500	42.91	-0.40	42.51	54.00	-11.49	AVG
10	2488.980	55.96	-0.37	55.59	74.00	-18.41	peak
11	2488.980	42.80	-0.37	42.43	54.00	-11.57	AVG
12	2497.150	55.57	-0.32	55.25	74.00	-18.75	peak
13	2497.150	42.99	-0.32	42.67	54.00	-11.33	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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

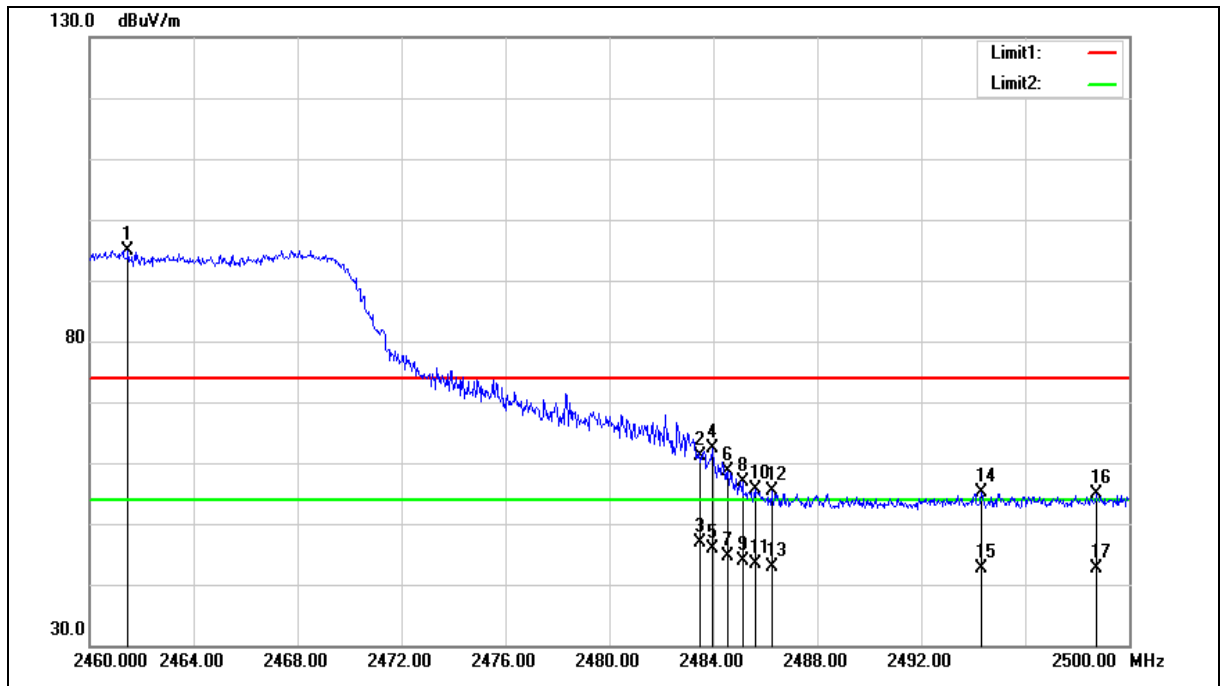
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.680	89.96	-0.51	89.45	--	--	peak
2	2483.500	58.04	-0.40	57.64	74.00	-16.36	peak
3	2483.500	45.27	-0.40	44.87	54.00	-9.13	AVG
4	2484.240	56.47	-0.39	56.08	74.00	-17.92	peak
5	2484.240	44.36	-0.39	43.97	54.00	-10.03	AVG
6	2485.400	56.07	-0.39	55.68	74.00	-18.32	peak
7	2485.400	43.17	-0.39	42.78	54.00	-11.22	AVG
8	2492.880	55.60	-0.34	55.26	74.00	-18.74	peak
9	2492.880	42.76	-0.34	42.42	54.00	-11.58	AVG
10	2497.080	56.20	-0.33	55.87	74.00	-18.13	peak
11	2497.080	42.29	-0.33	41.96	54.00	-12.04	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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

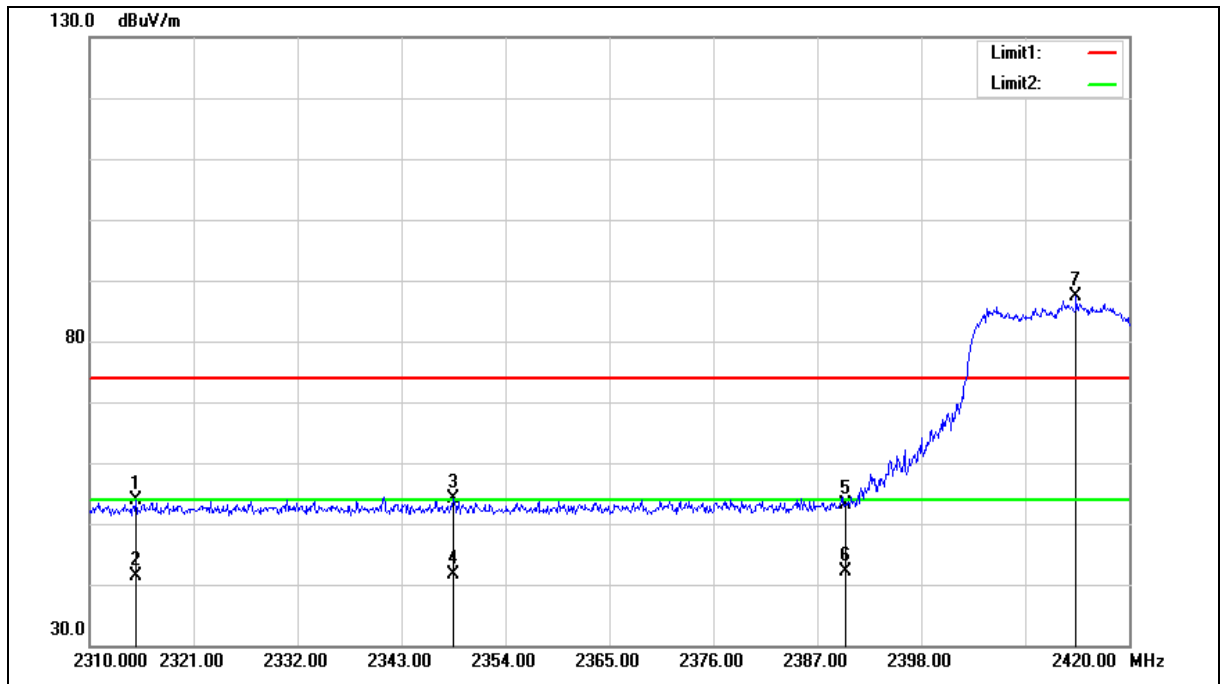
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.480	95.46	-0.51	94.95	--	--	peak
2	2483.500	61.65	-0.40	61.25	74.00	-12.75	peak
3	2483.500	47.20	-0.40	46.80	54.00	-7.20	AVG
4	2483.960	62.85	-0.39	62.46	74.00	-11.54	peak
5	2483.960	46.21	-0.39	45.82	54.00	-8.18	AVG
6	2484.560	59.13	-0.39	58.74	74.00	-15.26	peak
7	2484.560	45.14	-0.39	44.75	54.00	-9.25	AVG
8	2485.120	57.34	-0.39	56.95	74.00	-17.05	peak
9	2485.120	44.37	-0.39	43.98	54.00	-10.02	AVG
10	2485.600	56.08	-0.38	55.70	74.00	-18.30	peak
11	2485.600	43.67	-0.38	43.29	54.00	-10.71	AVG
12	2486.240	55.68	-0.38	55.30	74.00	-18.70	peak
13	2486.240	43.20	-0.38	42.82	54.00	-11.18	AVG
14	2494.320	55.35	-0.34	55.01	74.00	-18.99	peak
15	2494.320	43.01	-0.34	42.67	54.00	-11.33	AVG
16	2498.720	55.18	-0.31	54.87	74.00	-19.13	peak
17	2498.720	42.89	-0.31	42.58	54.00	-11.42	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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

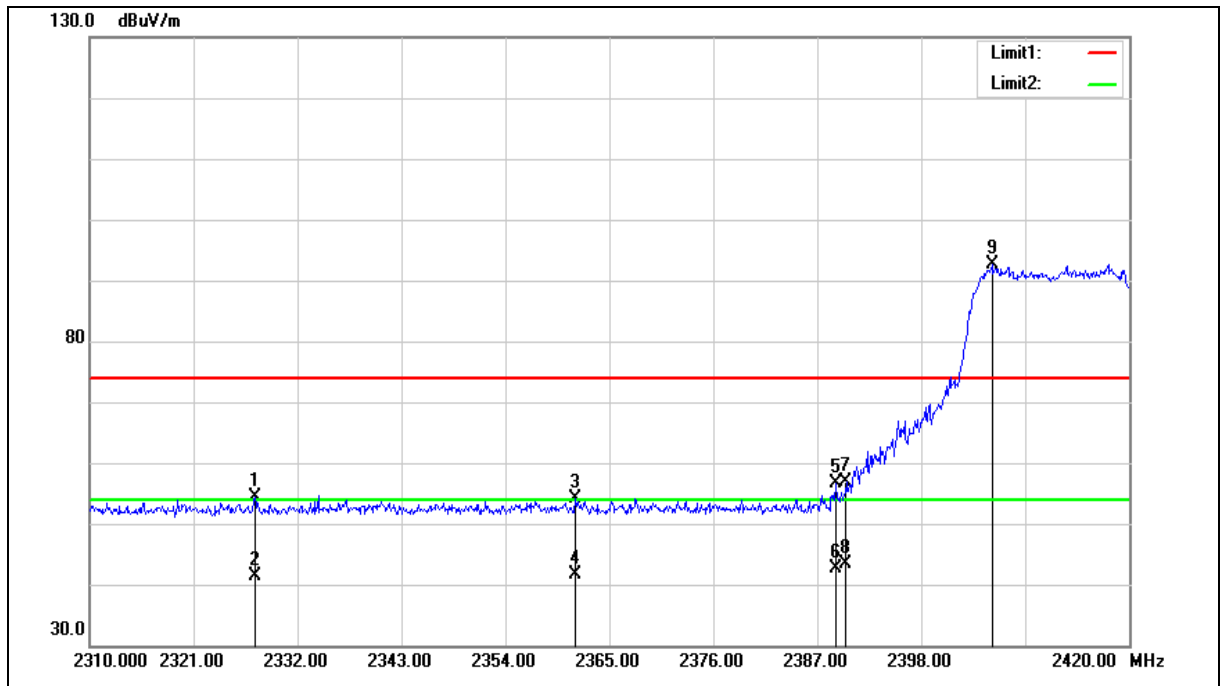
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2314.840	55.23	-1.25	53.98	74.00	-20.02	peak
2	2314.840	42.61	-1.25	41.36	54.00	-12.64	AVG
3	2348.500	55.09	-1.08	54.01	74.00	-19.99	peak
4	2348.500	42.64	-1.08	41.56	54.00	-12.44	AVG
5	2390.000	54.09	-0.87	53.22	74.00	-20.78	peak
6	2390.000	43.01	-0.87	42.14	54.00	-11.86	AVG
7	2414.390	88.04	-0.75	87.29	--	--	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:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2412 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

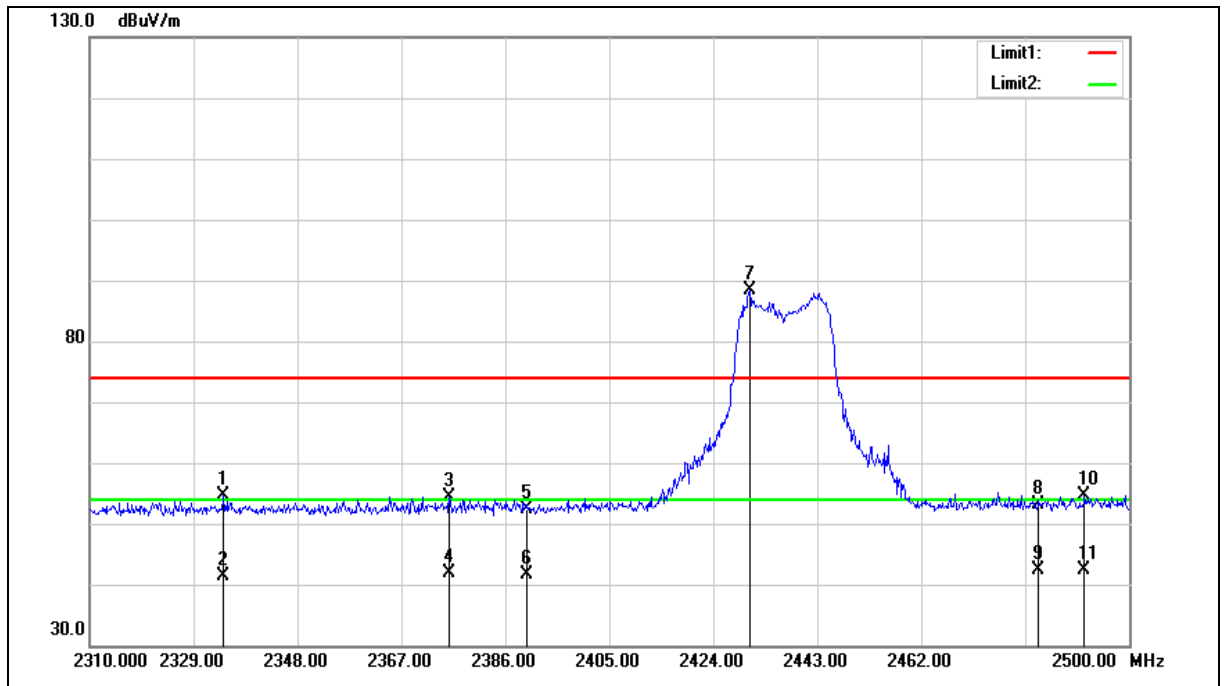
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2327.490	55.60	-1.19	54.41	74.00	-19.59	peak
2	2327.490	42.67	-1.19	41.48	54.00	-12.52	AVG
3	2361.370	55.24	-1.02	54.22	74.00	-19.78	peak
4	2361.370	42.62	-1.02	41.60	54.00	-12.40	AVG
5	2388.980	57.63	-0.88	56.75	74.00	-17.25	peak
6	2388.980	43.63	-0.88	42.75	54.00	-11.25	AVG
7	2390.000	57.83	-0.87	56.96	74.00	-17.04	peak
8	2390.000	44.18	-0.87	43.31	54.00	-10.69	AVG
9	2405.480	93.54	-0.79	92.75	--	--	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:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

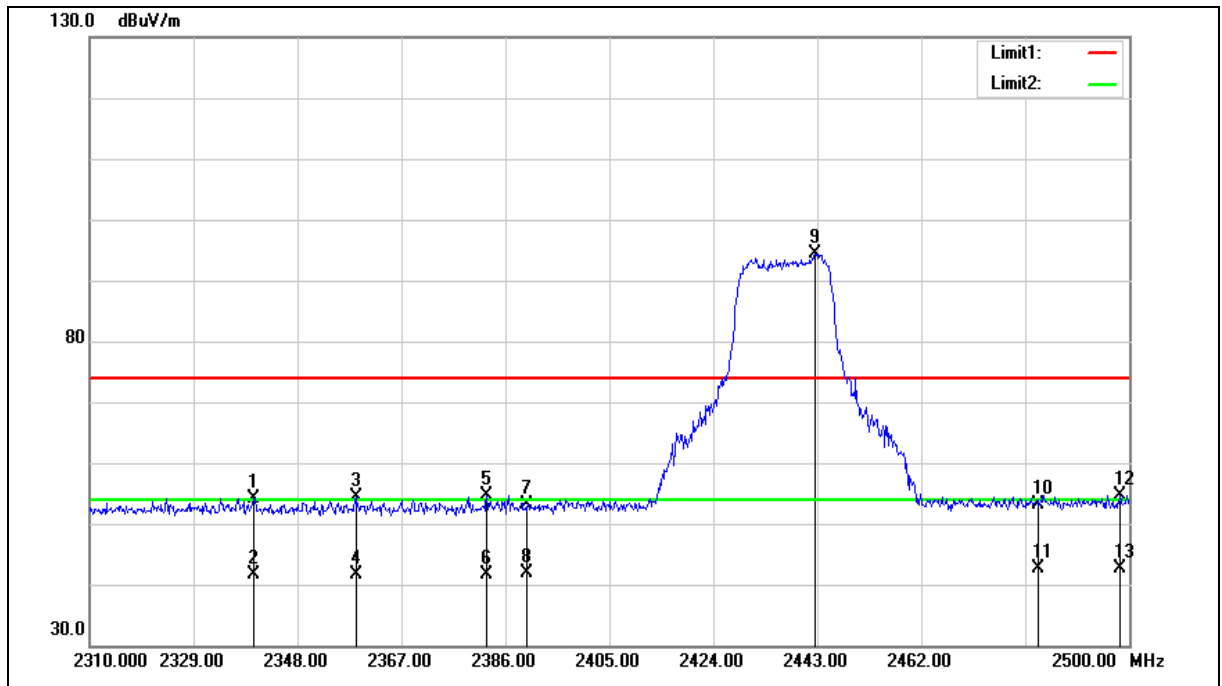
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2334.510	55.86	-1.14	54.72	74.00	-19.28	peak
2	2334.510	42.63	-1.14	41.49	54.00	-12.51	AVG
3	2375.740	55.41	-0.94	54.47	74.00	-19.53	peak
4	2375.740	42.78	-0.94	41.84	54.00	-12.16	AVG
5	2390.000	53.25	-0.87	52.38	74.00	-21.62	peak
6	2390.000	42.59	-0.87	41.72	54.00	-12.28	AVG
7	2430.650	88.93	-0.67	88.26	--	--	peak
8	2483.500	53.42	-0.40	53.02	74.00	-20.98	peak
9	2483.500	42.79	-0.40	42.39	54.00	-11.61	AVG
10	2491.830	54.97	-0.35	54.62	74.00	-19.38	peak
11	2491.830	42.74	-0.35	42.39	54.00	-11.61	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:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2437 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

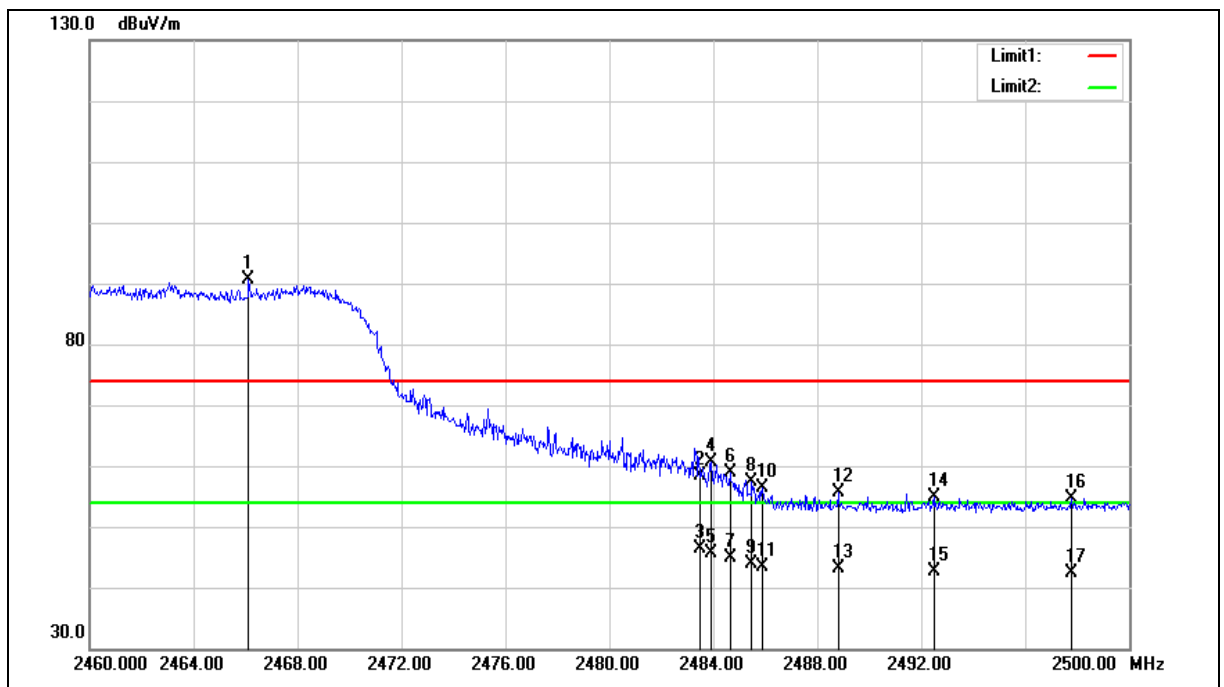
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2340.020	55.29	-1.12	54.17	74.00	-19.83	peak
2	2340.020	42.65	-1.12	41.53	54.00	-12.47	AVG
3	2358.640	55.30	-1.03	54.27	74.00	-19.73	peak
4	2358.640	42.68	-1.03	41.65	54.00	-12.35	AVG
5	2382.580	55.59	-0.91	54.68	74.00	-19.32	peak
6	2382.580	42.63	-0.91	41.72	54.00	-12.28	AVG
7	2390.000	53.95	-0.87	53.08	74.00	-20.92	peak
8	2390.000	42.63	-0.87	41.76	54.00	-12.24	AVG
9	2442.620	94.93	-0.61	94.32	--	--	peak
10	2483.500	53.53	-0.40	53.13	74.00	-20.87	peak
11	2483.500	42.97	-0.40	42.57	54.00	-11.43	AVG
12	2498.290	54.92	-0.32	54.60	74.00	-19.40	peak
13	2498.290	42.90	-0.32	42.58	54.00	-11.42	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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

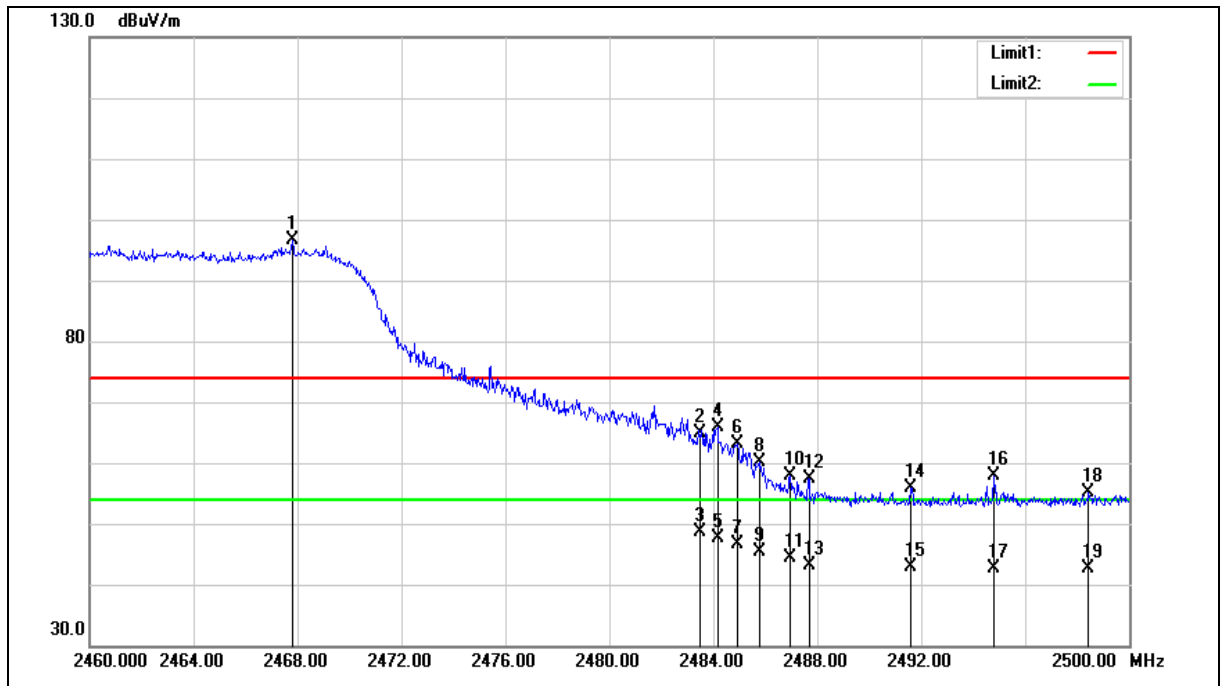
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2466.120	91.14	-0.49	90.65	--	--	peak
2	2483.500	58.76	-0.40	58.36	74.00	-15.64	peak
3	2483.500	46.66	-0.40	46.26	54.00	-7.74	AVG
4	2483.920	61.05	-0.39	60.66	74.00	-13.34	peak
5	2483.920	46.06	-0.39	45.67	54.00	-8.33	AVG
6	2484.640	59.17	-0.39	58.78	74.00	-15.22	peak
7	2484.640	45.25	-0.39	44.86	54.00	-9.14	AVG
8	2485.480	57.66	-0.38	57.28	74.00	-16.72	peak
9	2485.480	44.26	-0.38	43.88	54.00	-10.12	AVG
10	2485.880	56.72	-0.38	56.34	74.00	-17.66	peak
11	2485.880	43.80	-0.38	43.42	54.00	-10.58	AVG
12	2488.800	55.88	-0.37	55.51	74.00	-18.49	peak
13	2488.800	43.44	-0.37	43.07	54.00	-10.93	AVG
14	2492.480	55.20	-0.35	54.85	74.00	-19.15	peak
15	2492.480	43.10	-0.35	42.75	54.00	-11.25	AVG
16	2497.800	55.05	-0.32	54.73	74.00	-19.27	peak
17	2497.800	42.78	-0.32	42.46	54.00	-11.54	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:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	AC 110 V/60 Hz
Frequency:	2462 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.800	97.08	-0.48	96.60	--	--	peak
2	2483.500	65.24	-0.40	64.84	74.00	-9.16	peak
3	2483.500	48.98	-0.40	48.58	54.00	-5.42	AVG
4	2484.160	66.18	-0.39	65.79	74.00	-8.21	peak
5	2484.160	47.91	-0.39	47.52	54.00	-6.48	AVG
6	2484.920	63.59	-0.39	63.20	74.00	-10.80	peak
7	2484.920	47.12	-0.39	46.73	54.00	-7.27	AVG
8	2485.760	60.51	-0.38	60.13	74.00	-13.87	peak
9	2485.760	45.64	-0.38	45.26	54.00	-8.74	AVG
10	2486.960	58.19	-0.37	57.82	74.00	-16.18	peak
11	2486.960	44.80	-0.37	44.43	54.00	-9.57	AVG
12	2487.680	57.76	-0.37	57.39	74.00	-16.61	peak
13	2487.680	43.53	-0.37	43.16	54.00	-10.84	AVG
14	2491.600	56.19	-0.35	55.84	74.00	-18.16	peak
15	2491.600	43.32	-0.35	42.97	54.00	-11.03	AVG
16	2494.800	58.26	-0.34	57.92	74.00	-16.08	peak
17	2494.800	43.03	-0.34	42.69	54.00	-11.31	AVG
18	2498.440	55.41	-0.32	55.09	74.00	-18.91	peak
19	2498.440	42.97	-0.32	42.65	54.00	-11.35	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).

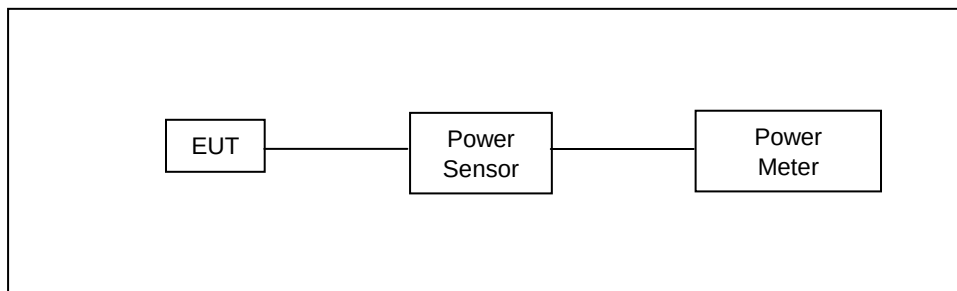
3. When the peak results are less than average limit, so not need to evaluate the average.

4.2.2 峰值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 3.10.1.2(1)(C)節之要求，操作於 2400-2483.5 兆赫(MHz)數位調變技術系統：1 瓦(W)(含)以下

測試架構圖：



測試結果:

操作模式：Mode 2 / Mode 3 / Mode 4							
操作模式	Data Rate (Mbps)	頻道 CH	輸出功率(Average)		輸出功率(Peak)		Limit (dBm)
			dBm	W	dBm	W	
Mode 2	1	01	14.35	0.027	16.38	0.043	≤ 30.00
		06	14.11	0.026	16.16	0.041	≤ 30.00
		11	14.12	0.026	16.21	0.042	≤ 30.00
Mode 3	6	01	13.08	0.020	19.06	0.081	≤ 30.00
		06	12.72	0.019	18.90	0.078	≤ 30.00
		11	12.63	0.018	18.92	0.078	≤ 30.00
Mode 4	6.5	01	12.92	0.020	19.01	0.080	≤ 30.00
		06	13.83	0.024	19.37	0.086	≤ 30.00
		11	13.92	0.025	19.41	0.087	≤ 30.00

4.2.3 天線規格之要求

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.3(3)節之要求,除 3.10.1.3(1)及 3.10.1.3(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限制值。

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.4 節之要求,天線之規格不受第 2.2 節規定之限制

判定結果:

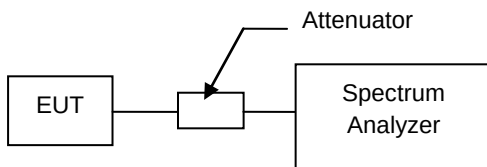
符合。

4.2.4 非必要頻帶之量測

合格標準:

發射限制：使用頻帶範圍外之任意 100 千赫 (kHz)內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz)內的射頻功率，須衰減 20 分貝(dB)，以射頻傳導或輻射方式測量。

測試架構圖：



測試結果:

操作模式	: Mode 2 / Mode 3 / Mode 4
量測之結果掃圖如下頁所示	

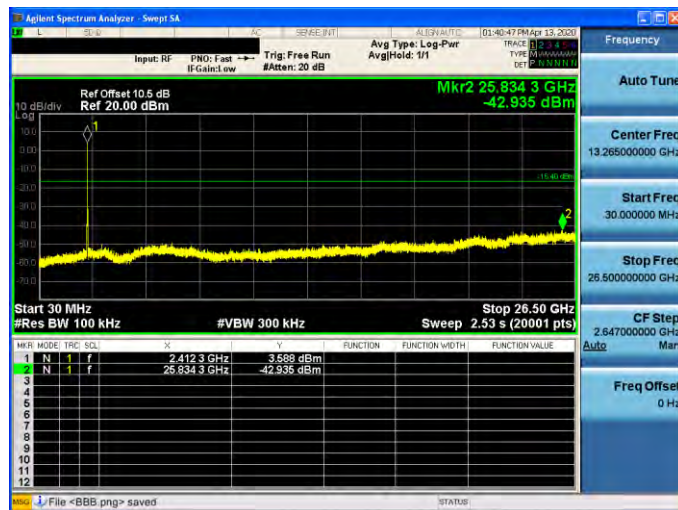
附註 1: 於使用頻帶範圍之任意 100 千赫 (kHz)內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz)內的射頻功率，衰減 20 分貝(dB)以上，符合規定。

附註 2: 測試結果頻帶外之輻射雜訊皆小於主頻 TX 20 dB。

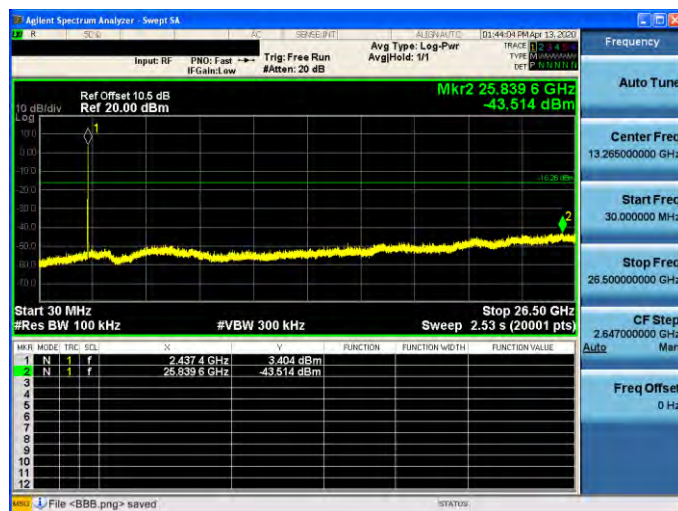
Out of Band Conducted Spurious Emission

Mode 2: IEEE 802.11b Continuous TX Mode

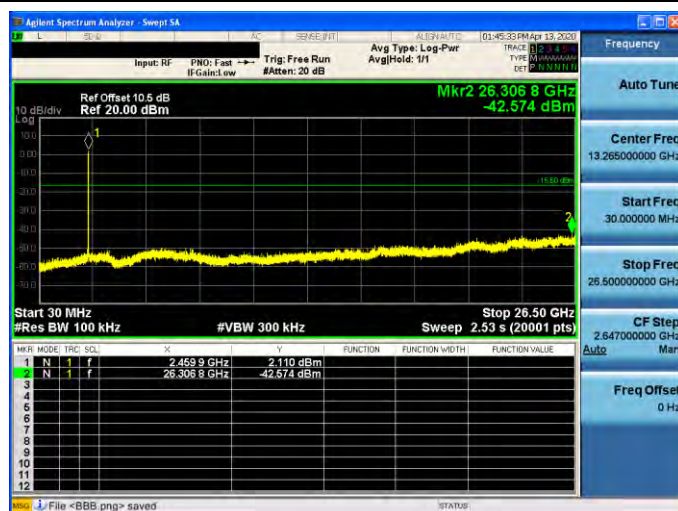
CH01

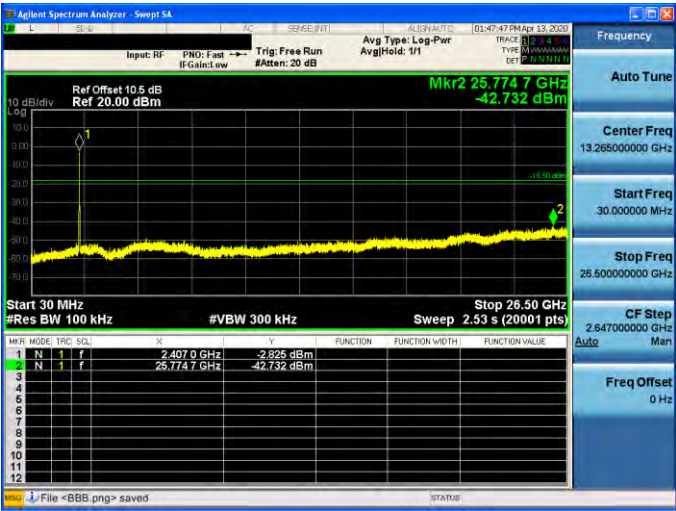
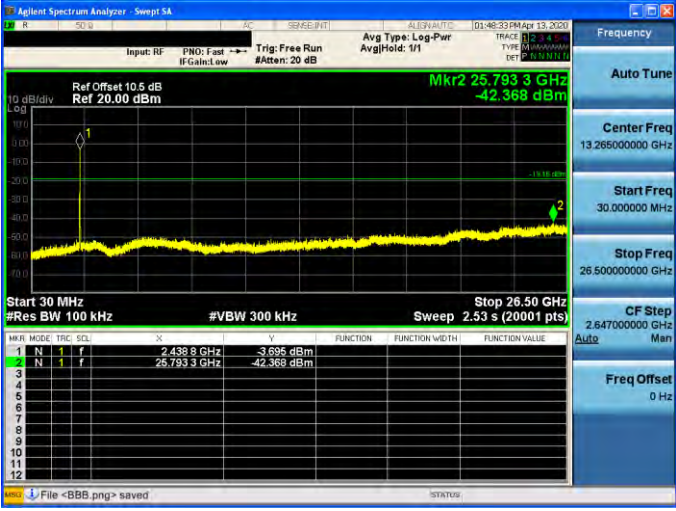
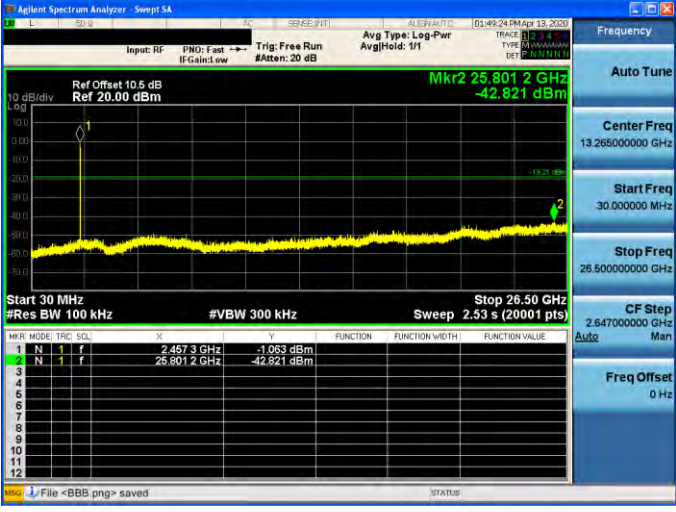


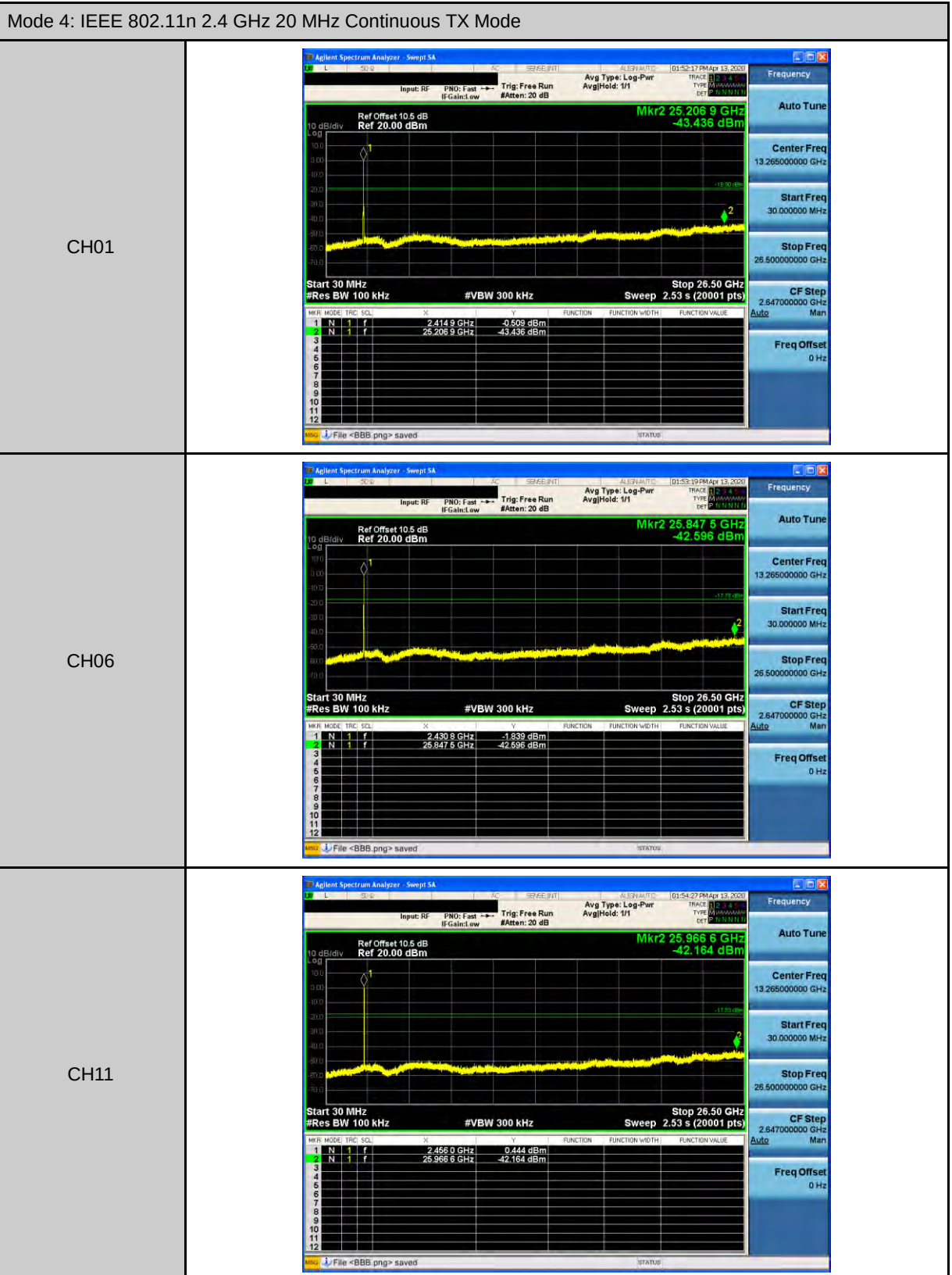
CH06



CH11

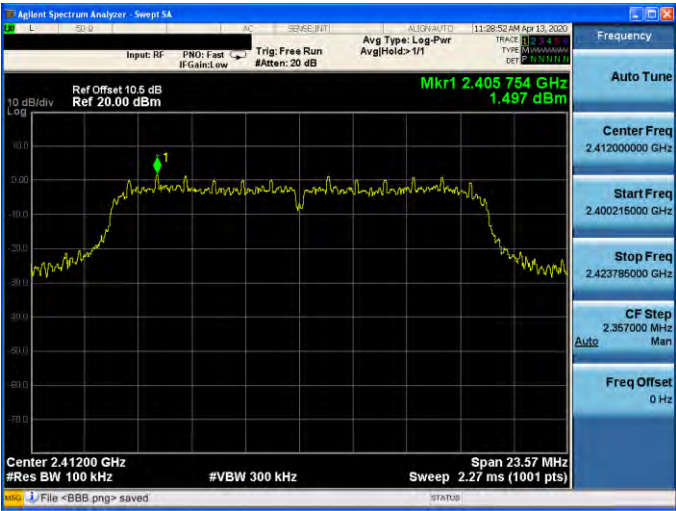
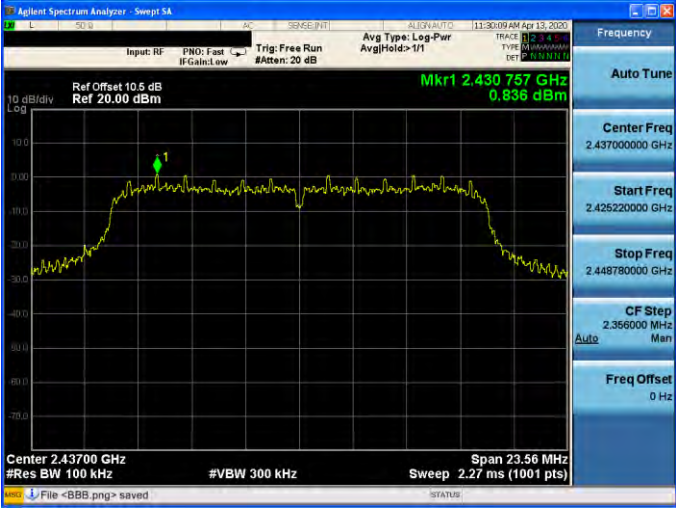
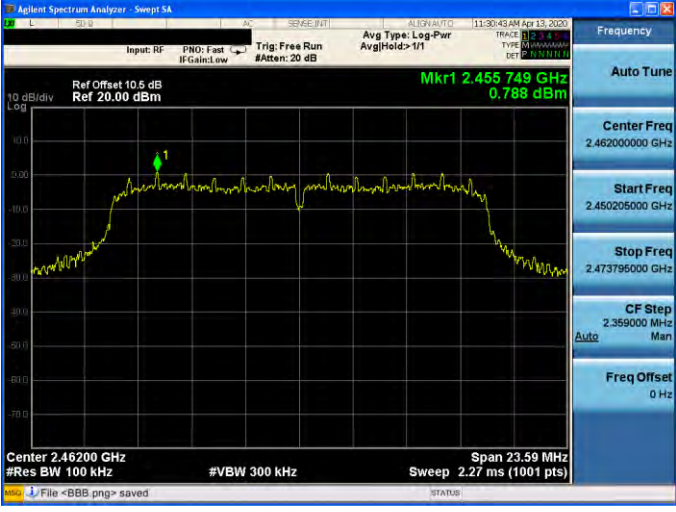


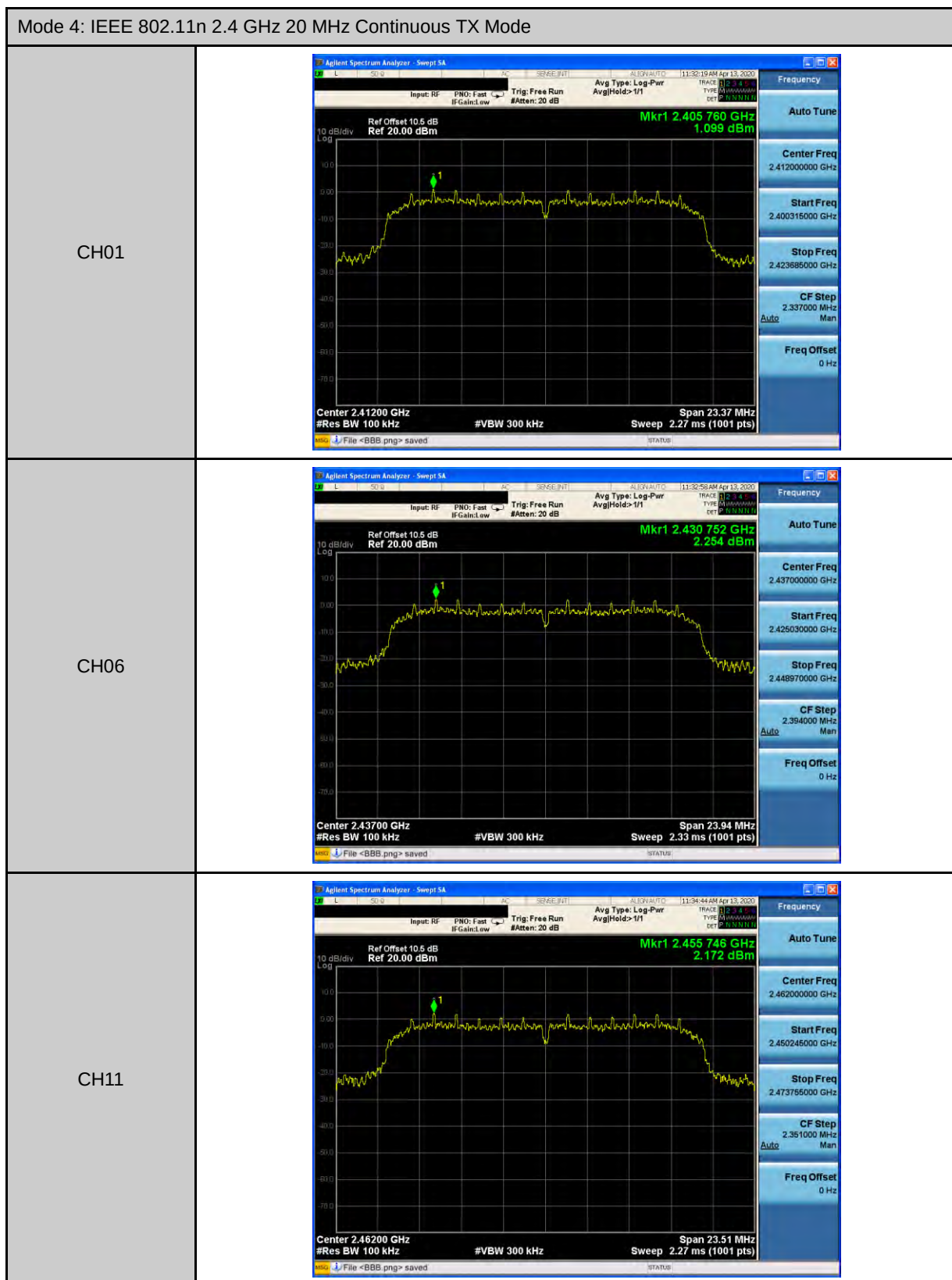
Mode 3: IEEE 802.11g Continuous TX Mode	
CH01	
CH06	
CH11	



Reference level

Mode 2: IEEE 802.11b Continuous TX Mode	
CH01	
CH06	
CH11	

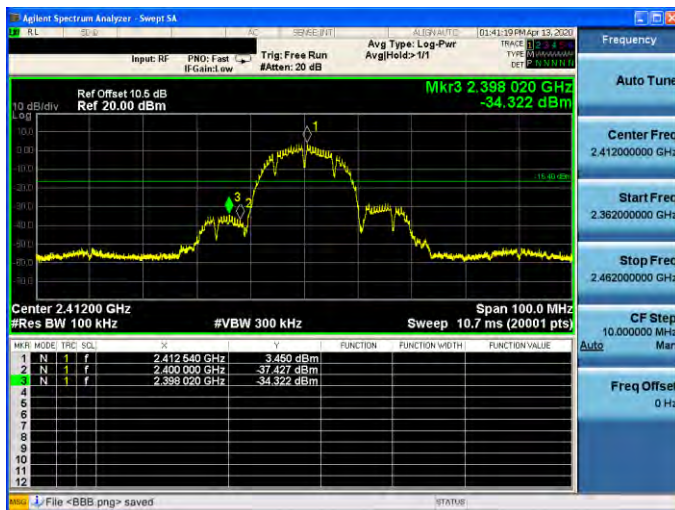
Mode 3: IEEE 802.11g Continuous TX Mode	
CH01	
CH06	
CH11	



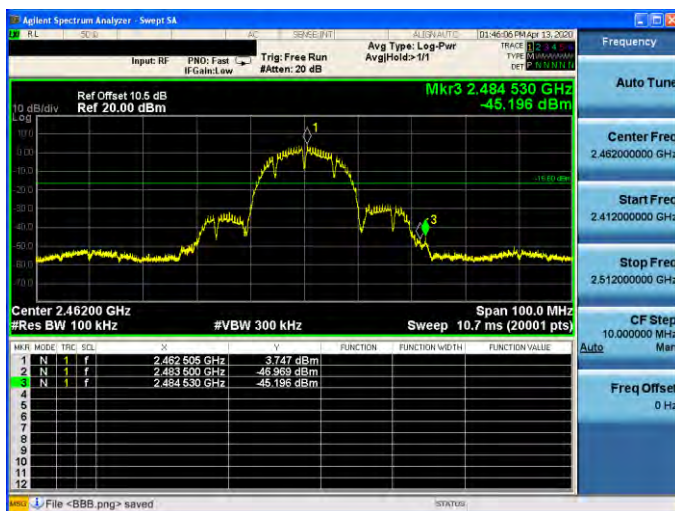
Conducted Band Edge

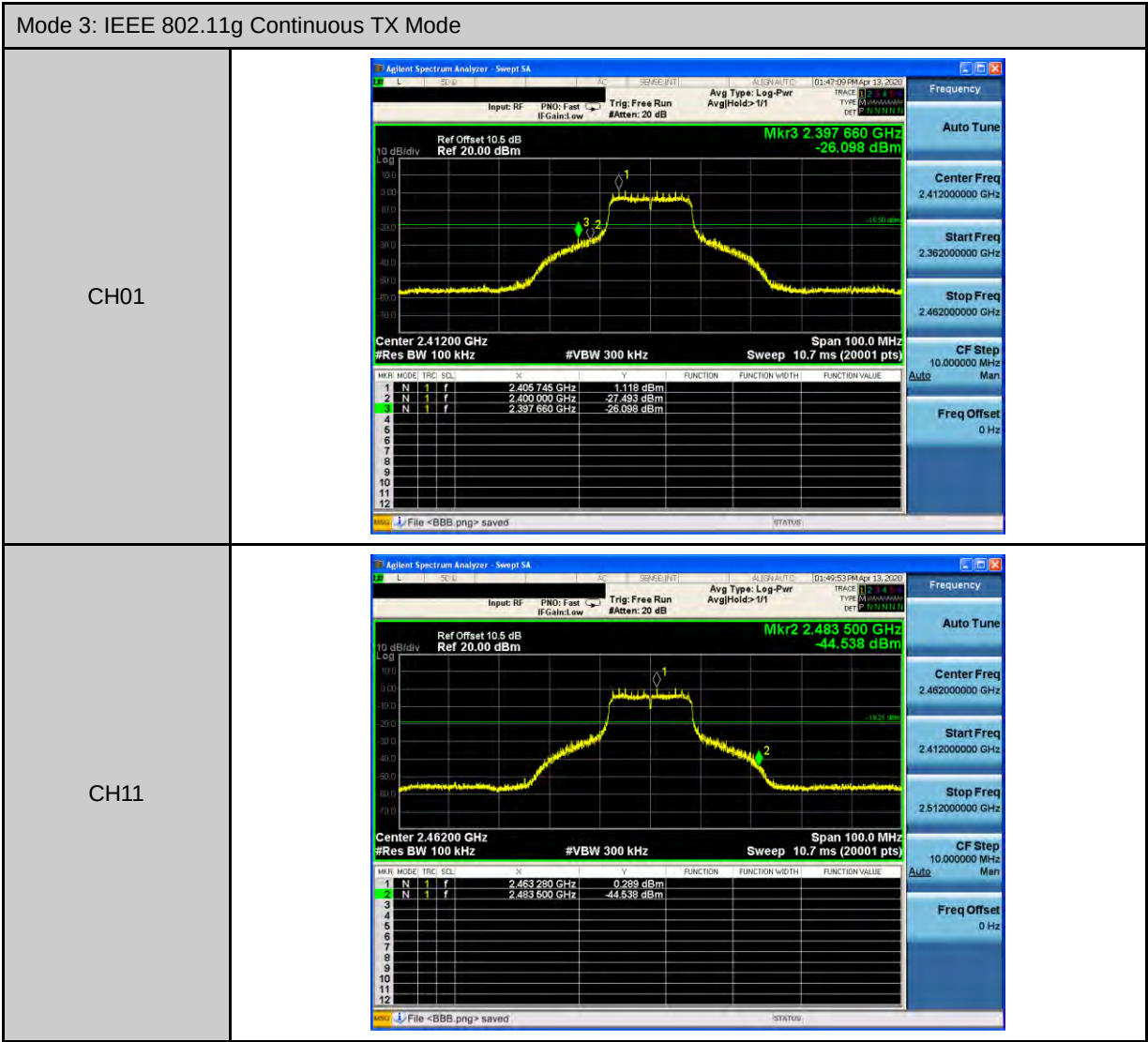
Mode 2: IEEE 802.11b Continuous TX Mode

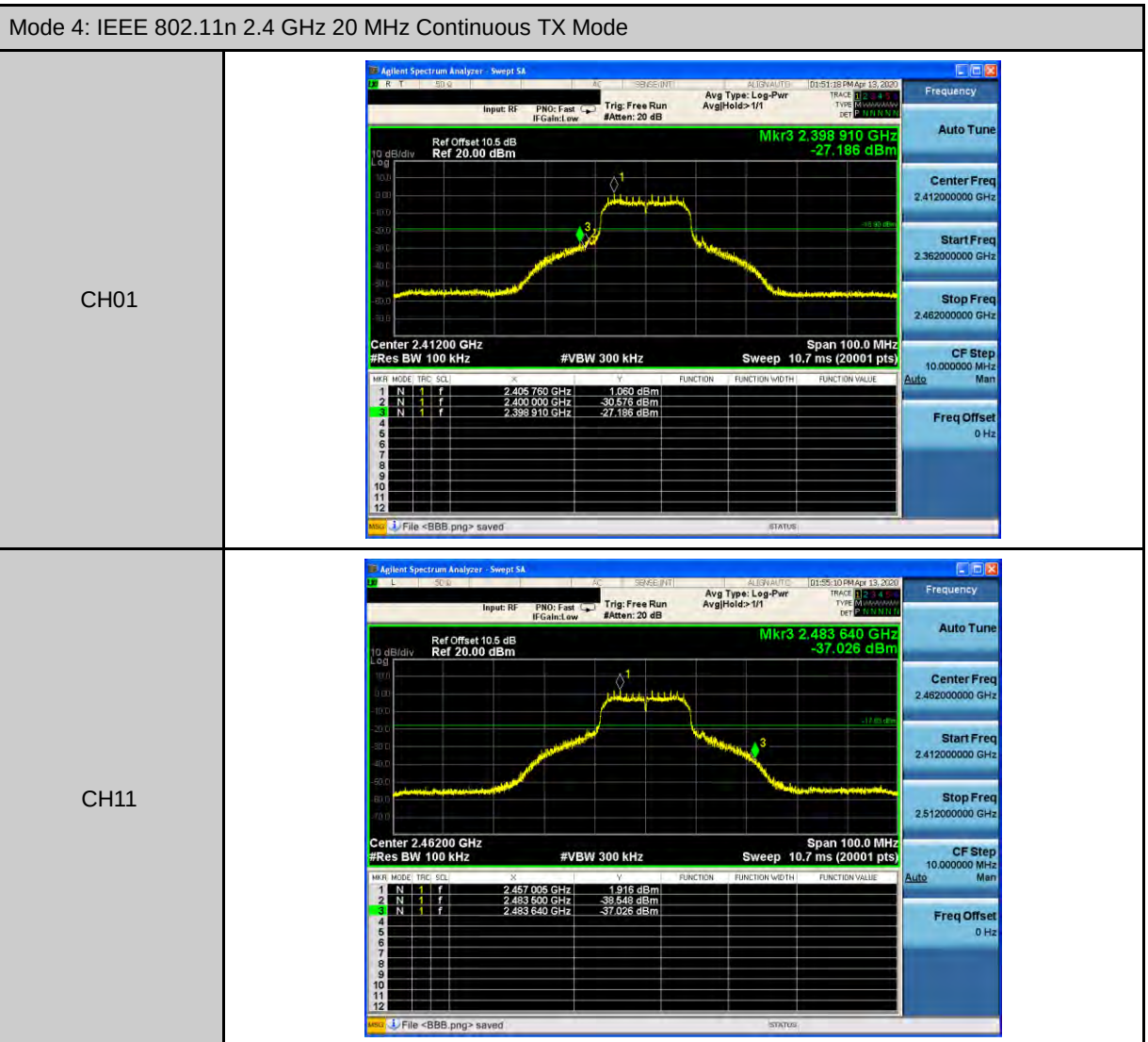
CH01



CH11





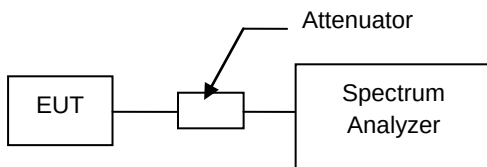


4.2.5 6 dB頻寬之要求

合格標準:

依據 NCC 低功率射頻電機技術規範 3.10.1.6(2)(A)節之要求，對使用數位調變技術(Digital Modulation Techniques)系統而言，6 dB 頻寬至少應有 500 千赫(kHz)。

測試架構圖：



測試結果:

操作模式：Mode 2 / Mode 3 / Mode 4			
操作模式	頻道	量測值 (kHz)	限制值 (kHz)
Mode 2	CH01	11111	≥ 500
	CH06	11108	≥ 500
	CH11	11092	≥ 500
Mode 3	CH01	15713	≥ 500
	CH06	15705	≥ 500
	CH11	15722	≥ 500
Mode 4	CH01	15577	≥ 500
	CH06	15956	≥ 500
	CH11	15672	≥ 500
測試掃描圖請參考下頁。			

Mode 2: IEEE 802.11b Continuous TX Mode

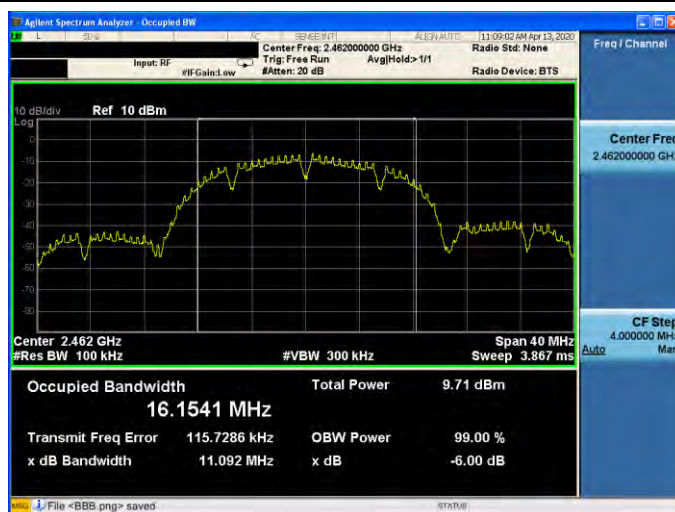
CH01



CH06

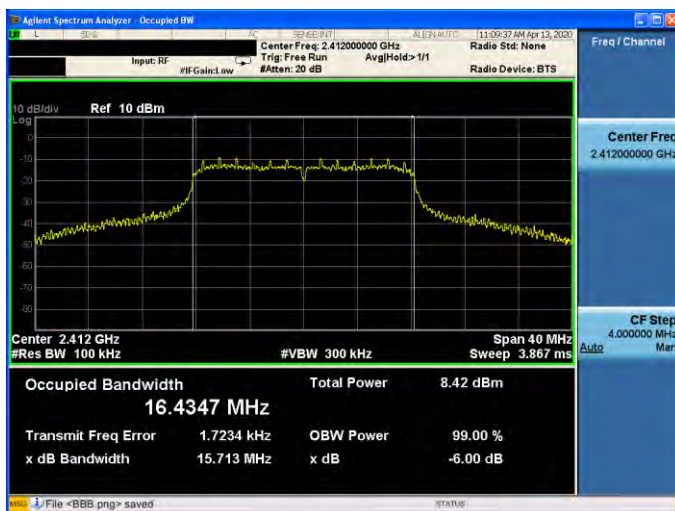


CH11

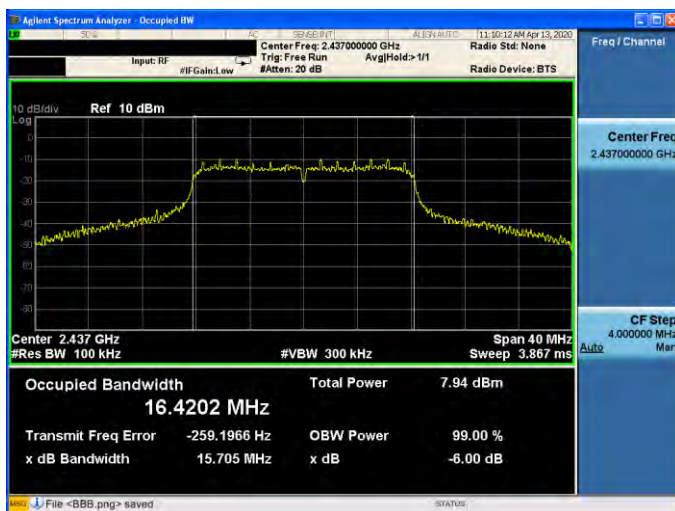


Mode 3: IEEE 802.11g Continuous TX Mode

CH01

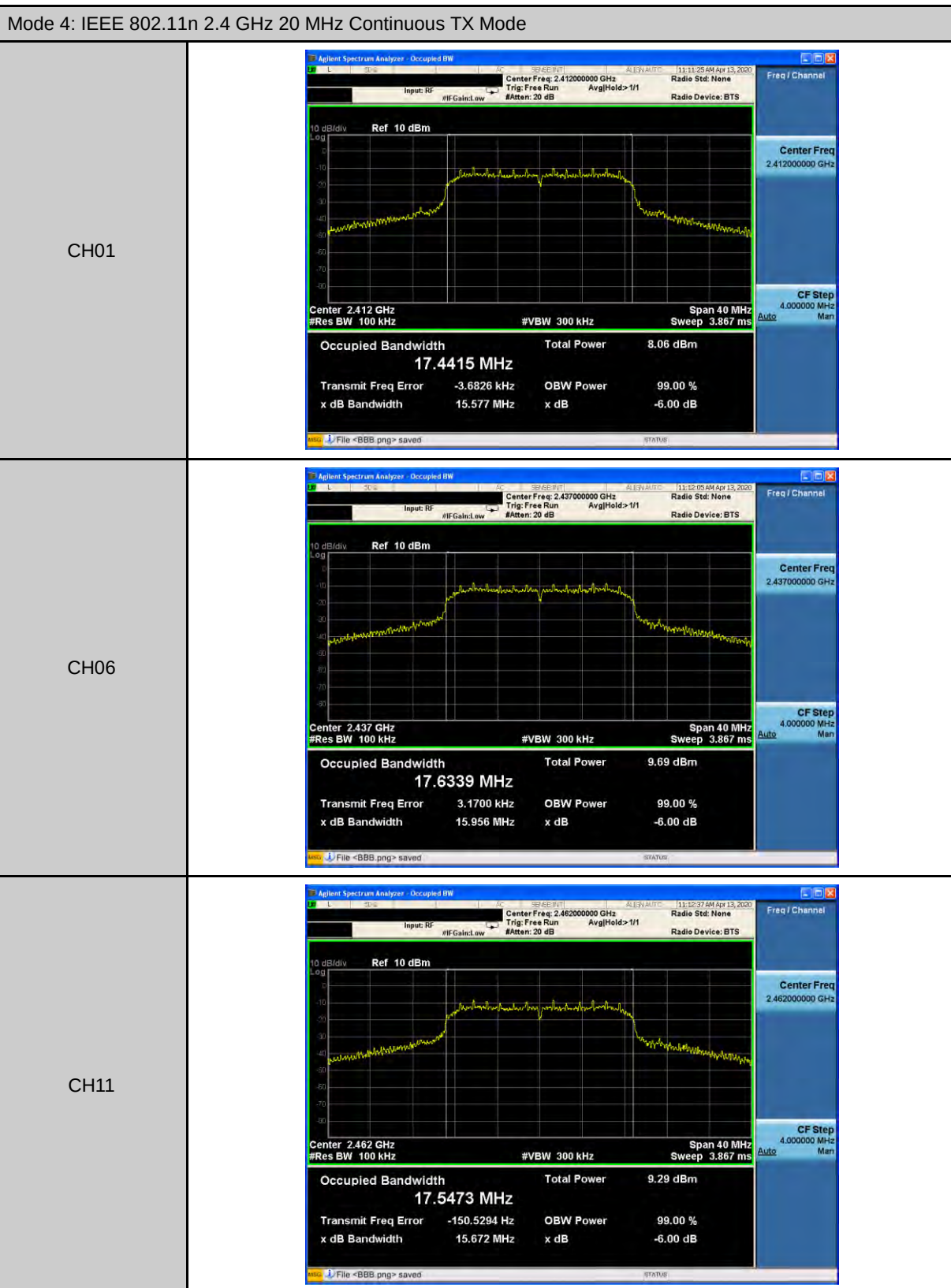


CH06



CH11





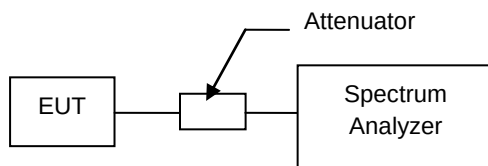
4.2.6 峰值發射功率頻譜密度之要求

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.6(2)(B)節之要求，數位調變技術(Digital Modulation Techniques)系統之功率密度,再使用頻率範圍之任意 3 kHz 頻寬內,由發射機傳導至天線之峰值發射功率頻譜密度在任意期間內,皆不得大於 8 dBm(複合系統時, 關閉跳頻作業狀態檢驗)。

測試架構圖：

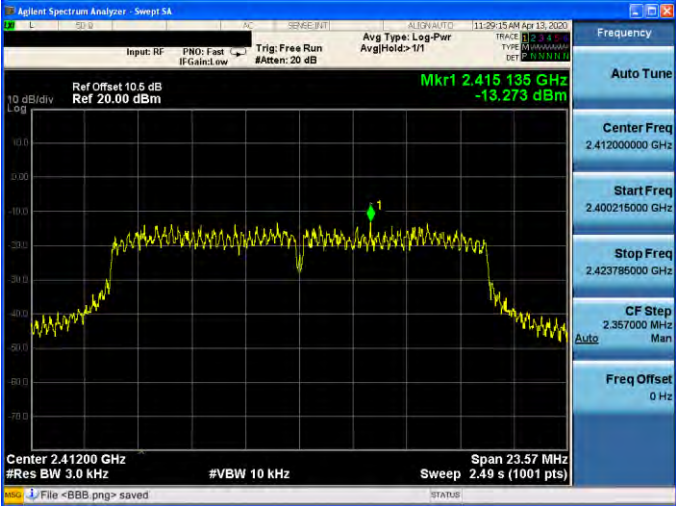
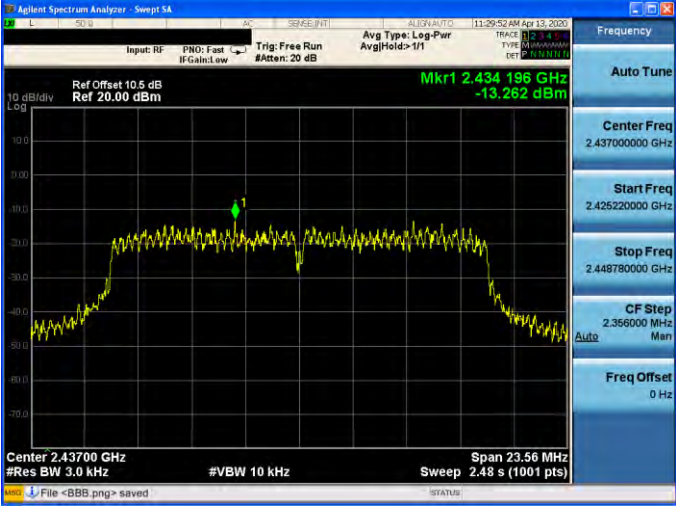
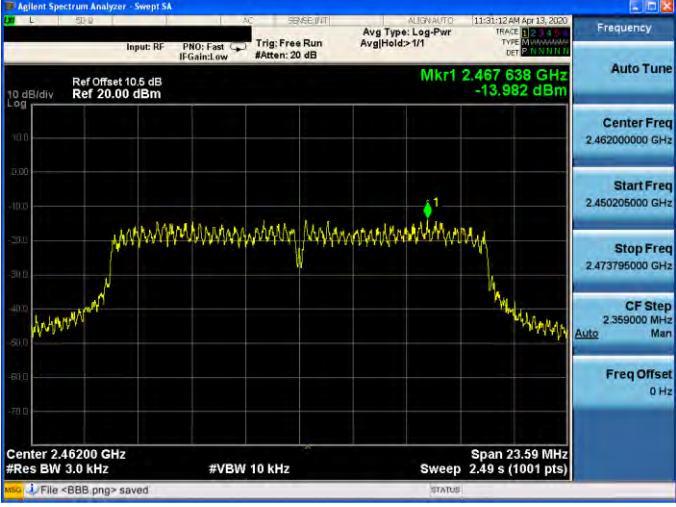
測試場地測試配置如圖所示。

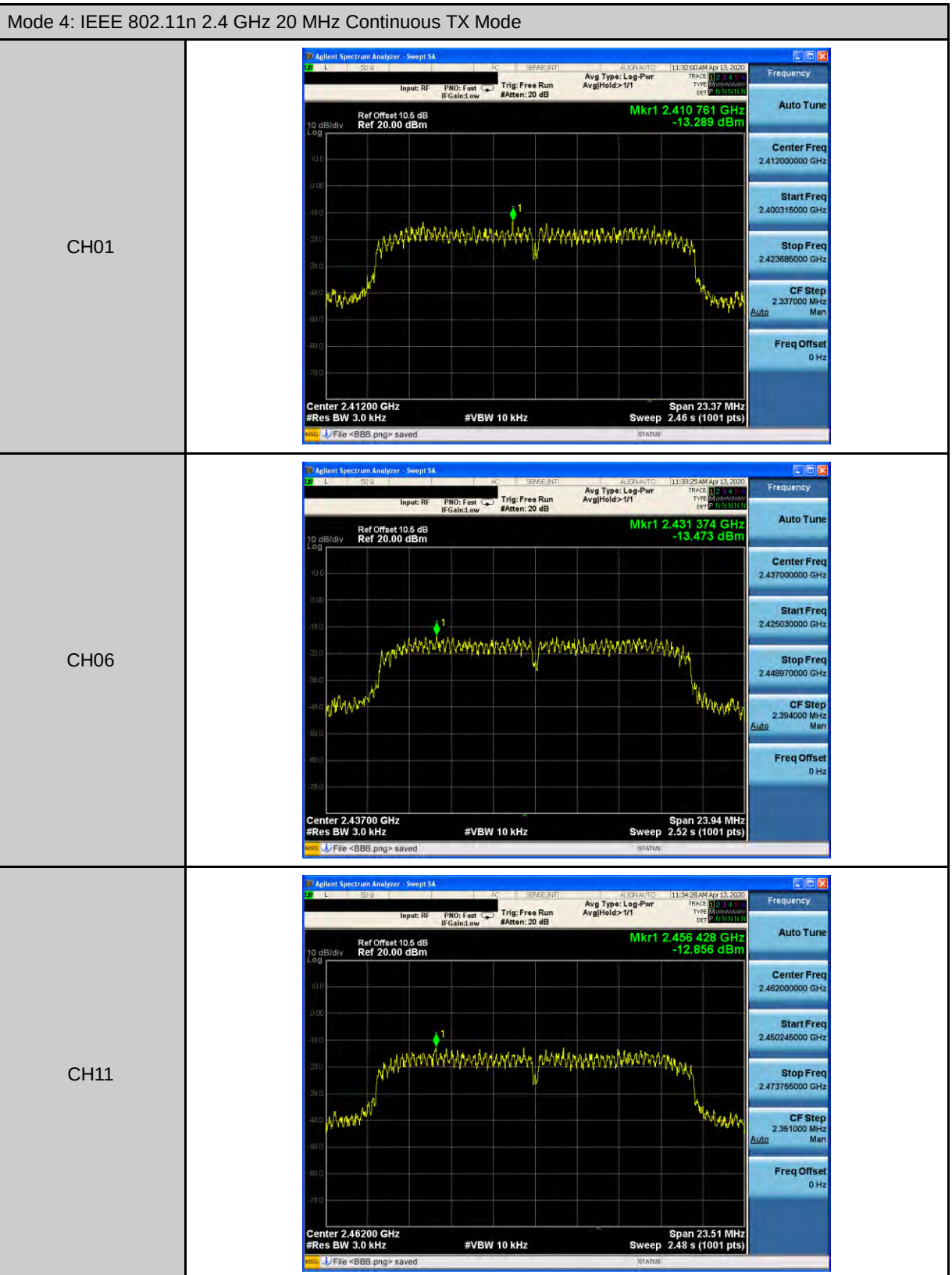


測試結果:

操作模式： Mode 2 / Mode 3 / Mode 4			
操作模式	頻道	量測值 (dBm)	限制值 (dBm)
Mode 2	CH01	-9.379	≤ 8
	CH06	-9.959	≤ 8
	CH11	-9.640	≤ 8
Mode 3	CH01	-13.273	≤ 8
	CH06	-13.262	≤ 8
	CH11	-13.982	≤ 8
Mode 4	CH01	-13.289	≤ 8
	CH06	-13.473	≤ 8
	CH11	-12.856	≤ 8

Mode 2: IEEE 802.11b Continuous TX Mode	
CH01	
CH06	
CH11	

Mode 3: IEEE 802.11g Continuous TX Mode	
CH01	
CH06	
CH11	



4.2.7 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)
WLAN 2.4 GHz	2412~2462	1	20	14.35	5.46	3.52	1	95.839	0.0191

---END---