

低功率射頻電機技術規範測試報告

報告編號	RT181019C20A
申請者	網件有限公司
產品名稱	奧秘企業吸頂分身路由, NETGEAR Insight 雲管理 AC3000 802.11ac Wave2 三頻無線接入點
型號	SRC60, WAC540
製造廠商	NETGEAR, INC.
商標或廠牌	NETGEAR
該產品樣品試驗 依據之試驗標準	國家通訊傳播委員會低功率射頻電機技術規範 107 年 1 月修訂
試驗結果	合格

香港商立德國際商品試驗有限公司桃園分公司林口實驗室
日期 108 年 04 月 17 日

報告簽署人簽章:



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報告發行紀錄

Issue No.	Description	Date Issued
RT181019C20A	Original release	108 年 04 月 17 日

證 明 書

發行日期：108 年 04 月 17 日

產 品 名 稱： 奧秘企業吸頂分身路由, NETGEAR Insight 雲管理 AC3000 802.11ac Wave2
三頻無線接入點
商 標： NETGEAR
型 號： SRC60, WAC540
申 請 者： 網件有限公司
量 測 規 範： 低功率射頻電機技術規範 LP0002
ANSI C63.10-2013

香港商立德國際商品試驗有限公司桃園分公司在此證明上述待測設備樣品一組(型號：SRC60) 收件日期 107 年 10 月 19 日，於 107 年 12 月 20 日至 108 年 01 月 23 日，已在本公司的標準測試場地完成量測。報告中所描述之測試結果和待測設備的架構組合，均根據樣品實際的量測情況作詳實的記錄。

立德桃園分公司依“低功率射頻電機技術規範”、“低功率電波輻射性電機管理辦法”及“電信管制射頻器材審驗辦法”製作測試結果報告。

特 此 證 明 ！

報告製作者：



， 日 期： 108 年 04 月 17 日

周 歆 穎 / 高級專員

審 核 者：



， 日 期： 108 年 04 月 17 日

陳 志 偉 / 專案工程師

香港商立德國際商品試驗有限公司桃園分公司

實驗室地址：新北市林口區嘉寶里 14 鄰 47-2 號

此份報告不得摘錄複製，除全份
複製外，需經實驗室書面同意。



1 低功率射頻電機量測記錄表

申請廠商: 網件有限公司

製造廠商: NETGEAR, INC.

申請廠商地址: 台北市內湖區湖基路3巷9號3樓

廠牌: NETGEAR

產品名稱: 奧秘企業吸頂分身路由, NETGEAR Insight 雲管理 AC3000 802.11ac Wave2 三頻無線接入點

型號: SRC60, WAC540

量測單位名稱: 香港商立德國際商品試驗有限公司桃園分公司
林口實驗室華亞檢測部

量測單位地址: 桃園市龜山區文化里華亞二路19號

量測單位認可編號: TAF 2021 (9kHz~40GHz)

量測規範: 低功率射頻電機技術規範 LP0002

ANSI C63.10-2013

KDB 558074

KDB 662911

KDB 789033

WLAN 2.4GHz 頻段概要

項次	量測項目	規 範	量測結果判定
1	帶外發射	低功率射頻電機技術規範 3.10.1.5 節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3 節	合格
3	6 dB 頻寬	低功率射頻電機技術規範 3.10.1.6 節	合格
4	峰值傳導輸出功率	低功率射頻電機技術規範 3.10.1.2 節	合格
5	功率頻譜密度	低功率射頻電機技術規範 3.10.1.6 節	合格

備註：量測結果之判定不考慮量測不確定度的貢獻。

WLAN 5.150~5.250GHz頻段概要

項次	量測項目	規 範	量測結果判定
1	電源線傳導干擾	低功率射頻電機技術規範2.3節	合格
2	帶外發射	低功率射頻電機技術規範4.7.4節	合格
3	最大傳導輸出功率	低功率射頻電機技術規範4.7.3.1節	合格
4	最大功率頻譜密度	低功率射頻電機技術規範4.7.3.1節	合格

備註：量測結果之判定不考慮量測不確定度的貢獻。

WLAN 5.725~5.850GHz 頻段概要

項次	量測項目	規 範	量測結果判定
1	電源線傳導干擾	低功率射頻電機技術規範2.3節	合格
2	帶外發射	低功率射頻電機技術規範4.7.4節	合格
3	最大傳導輸出功率	低功率射頻電機技術規範4.7.3.3節	合格
4	最大功率頻譜密度	低功率射頻電機技術規範4.7.3.3節	合格
5	6dB 頻寬	低功率射頻電機技術規範4.7.5節	合格

備註：量測結果之判定不考慮量測不確定度的貢獻。

最大暴露允許值(Maximum Permissible Exposure, MPE)

項次	量測項目	規 範	量測結果判定
1	電波暴露量	低功率射頻電機技術規範第 5.20.2 節	合格

2 一般敘述

2.1 待測設備

產品名稱：	奧秘企業吸頂分身路由, NETGEAR Insight 雲管理AC3000 802.11ac Wave2三頻無線接入點
型號：	SRC60, WAC540
額定電源：	12Vdc (Adapter) 54Vdc (POE)
調變技術：	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
傳輸速率：	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300Mbps (For 2.4G Band) 802.11n: up to 600Mbps (For 5G Band) 802.11ac: up to 1733.3Mbps
載波頻率：	2.4GHz: 2412 ~ 2462MHz 5.0GHz: 5180 ~ 5240MHz, 5745 ~ 5825MHz
頻道數：	2412 ~ 2462MHz: 802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7 5180 ~ 5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
發射功率：	見註 3
天線種類：	見註 4
電源線類別：	NA
信號線類別：	NA
配件：	見註 5

註 1: The EUT incorporates a MIMO function. Physically, the EUT provides 4 completed transmitters and 4 receivers.

Band	Modulation Mode	Beamforming Mode	TX Function
2.4GHz Band	802.11b	Not Support	2TX
	802.11g	Not Support	2TX
	802.11n (HT20)	Support	2TX
	802.11n (HT40)	Support	2TX
5GHz Band 1	802.11a	Not Support	2TX
	802.11n (HT20)	Support	2TX
	802.11n (HT40)	Support	2TX
	802.11ac (VHT20)	Support	2TX
	802.11ac (VHT40)	Support	2TX
	802.11ac (VHT80)	Support	2TX
5GHz Band 4	802.11a	Not Support	4TX
	802.11n (HT20)	Support	4TX
	802.11n (HT40)	Support	4TX
	802.11ac (VHT20)	Support	4TX
	802.11ac (VHT40)	Support	4TX
	802.11ac (VHT80)	Support	4TX

* For 802.11n, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

* The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for 20MHz/40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer note 7)

註 2: All models are listed as below. Model SRC60 is the representative for final test.

Brand	Product Name	Model	Difference
NETGEAR	奧秘企業吸頂分身路由	SRC60	Main test model. Same PCB with WAC540, only LED location and enclosures difference.
	NETGEAR Insight 雲管理 AC3000 802.11ac Wave2 三頻無線接入點	WAC540	Series model.

The following RF Modules are for the EUT.

RF Module	Band	Antenna No.
Module 1	2.4G	5, 6
	UNII-1	5, 6
Module 2	UNII-3	1, 2, 3, 4

註 3: 發射功率如下

Frequency Band (MHz)	Mode	發射功率 (dBm)	
		CDD	Beamforming
2412 ~ 2462MHz	802.11b	28.59	-
	802.11g	28.50	-
	802.11n (HT20)	28.57	28.57
	802.11n (HT40)	26.57	26.57
5180 ~ 5240MHz	802.11a	28.64	-
	802.11ac (VHT20)	28.80	28.80
	802.11ac (VHT40)	27.62	27.62
	802.11ac (VHT80)	22.80	22.80
5745 ~ 5825MHz	802.11a	29.67	-
	802.11ac (VHT20)	29.67	28.74
	802.11ac (VHT40)	29.67	28.74
	802.11ac (VHT80)	27.89	27.89

註 4: 此待測設備搭配測試的天線，其資料如下：

Ant. Type	Dipole	Connector Type	i-pex(MHF)
Directional Antenna Gain (dBi)			
2.4G	5G B1	5G B4	
4.27	4.42	7.09	

註 5: The EUT consumes power from the following adapters and POE.

Adapter	
Brand	NETGEAR
Model	AD2067M20
P/N	332-11074-01
Input	100-240Vac, 50/60Hz, 1.0A
Output	12Vdc, 2.5A
Power Line	1.8m DC cable without core attached on adapter

POE (Support unit only)	
Brand	NETGEAR
Model	GS110TP
Input Power	100-240Vac, 50/60Hz
Output Power	54Vdc, 1.25A

POE 's adapter (Support unit only)	
Brand	NETGEAR
Model	2ACL068S
P/N	332-11059-01
Input	100-240Vac, 50/60Hz, 1.7A Max
Output	54Vdc, 1.25A
Power Line	1.5m DC cable without core attached on adapter

註 6: 此待測物量測預測試模式如下：

測試模式	測試情形
A	Powered by adapter
B	Powered by POE

* 1GHz 以下的場強輻射量測與電源線傳導干擾量測以上述測試模式 A、B 進行測試，其餘測驗項目以測試模式 A 進行測試。

註 7: 此報告中，經過評估後以下列測試模式進行最終量測。

載波頻率	量測項目	發射	接收
2412 ~ 2462MHz			
場強輻射量測	1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11n (HT20): Ch 1, 6, 11 802.11n (HT40): Ch 3, 6, 9	802.11g: Ch 6
	其它不必要之訊號	802.11g: Ch 6	
電源線傳導干擾		802.11g: Ch 6	
5180 ~ 5240MHz, 5745 ~ 5825MHz			
場強輻射量測	1GHz 以上量測	802.11a: Ch 36, 40, 48, 149, 157, 165 802.11ac (VHT20): Ch 36, 40, 48, 149, 157, 165 802.11ac (VHT40): Ch 38, 46, 151, 159 802.11ac (VHT80): Ch 42, 155	802.11a: Ch 40, 157
	其它不必要之訊號	802.11a: Ch 40, 157	
電源線傳導干擾		802.11a: Ch 40, 157	
Co-located			
場強輻射量測	1GHz 以上量測& 其它不必要之訊號	802.11g: Ch 6 + 802.11a: Ch: 48 + 802.11a: Ch 149	

註 8: 此報告中傳輸模式，場強輻射量測及電源線傳導干擾量測之外的測試項目，以DSSS調變技術和OFDM調變技術分別進行測試並記錄最終量測結果於報告中。

註 9: 此待測設備，經評估三個正交軸方位評估測試擺設方式：平躺、側放、垂直，以平躺為最大干擾值之位置，故以此最大干擾值之擺放方式進行最終量測，並將測試結果紀錄。

註 10: Duty cycle of test signal.

2.4GHz Band:

802.11b: Duty cycle of test signal is 100%, duty factor is not required.

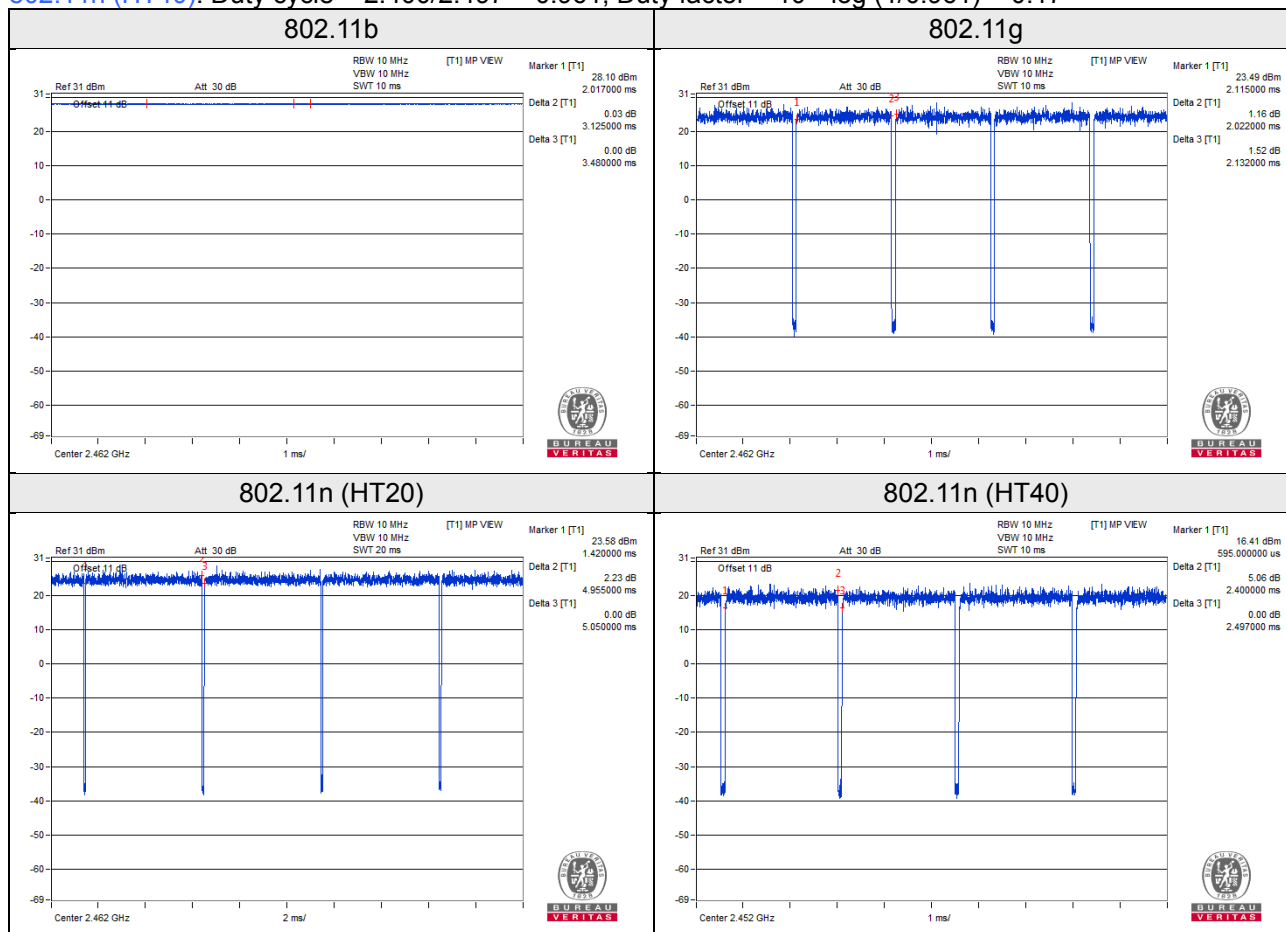
802.11n (HT20): Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

802.11g, 802.11n (HT40): Duty cycle of test signal is $< 98\%$, duty factor is required.

802.11g: Duty cycle = $2.022/2.132 = 0.948$, Duty factor = $10 * \log(1/0.948) = 0.23$

802.11n (HT20): Duty cycle = $4.955/5.050 = 0.981$

802.11n (HT40): Duty cycle = $2.400/2.497 = 0.961$, Duty factor = $10 * \log(1/0.961) = 0.17$



5GHz Band:

802.11ac (VHT20): Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

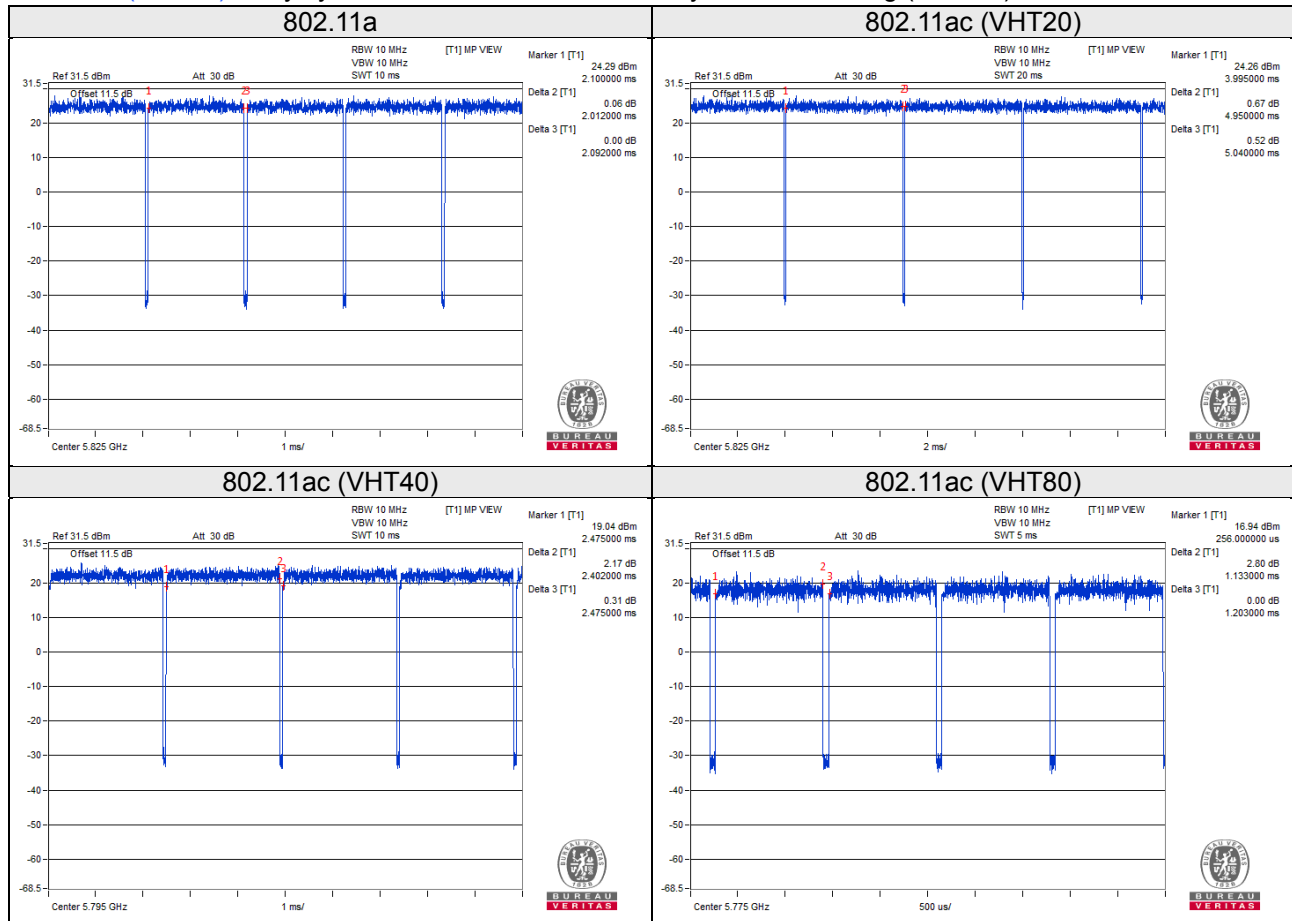
802.11a, 802.11ac (VHT40), 802.11ac (VHT80): Duty cycle of test signal is $< 98\%$, duty factor is required.

802.11a: Duty cycle = $2.012/2.092 = 0.962$, Duty factor = $10 * \log(1/0.962) = 0.17$

802.11ac (VHT20): Duty cycle = $4.950/5.040 = 0.982$

802.11ac (VHT40): Duty cycle = $2.402/2.475 = 0.971$, Duty factor = $10 * \log(1/0.971) = 0.13$

802.11ac (VHT80): Duty cycle = $1.133/1.203 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$



此裝置各頻道的中心頻率如下：

2.4 GHz 頻段：

802.11b, 802.11g, 802.11n (HT20):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437		

802.11n (HT40):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
03	2422	07	2442
04	2427	08	2447
05	2432	09	2452
06	2437		

5GHz 頻段：

802.11a, 802.11n (HT20), 802.11ac (VHT20):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
36	5180 MHz	153	5765 MHz
40	5200 MHz	157	5785 MHz
44	5220 MHz	161	5805 MHz
48	5240 MHz	165	5825 MHz
149	5745 MHz		

802.11n (HT40), 802.11ac (VHT40):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
38	5190 MHz	151	5755 MHz
46	5230 MHz	159	5795 MHz

802.11ac (VHT80):

頻道	對應頻率 (MHz)	頻道	對應頻率 (MHz)
42	5210MHz	155	5775 MHz

詳細之規格請參考使用說明書，產品的照片請參照BV報告編號: 190411C44。

2.2 輔助測試之週邊設備描述

待測設備於受測時均接上其所屬的配件或一般用途之相關設備；下列輔助設備或配件測試中所使用的配備，以形成一個代表待測物實際運作的受測系統。

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	Lenovo	81A4	YD02TWF5	PPD-QCNFA435	-
B.	Load	NA	NA	NA	NA	-
C.	POE	NETGEAR	GS110TP	NA	NA	Provided by client

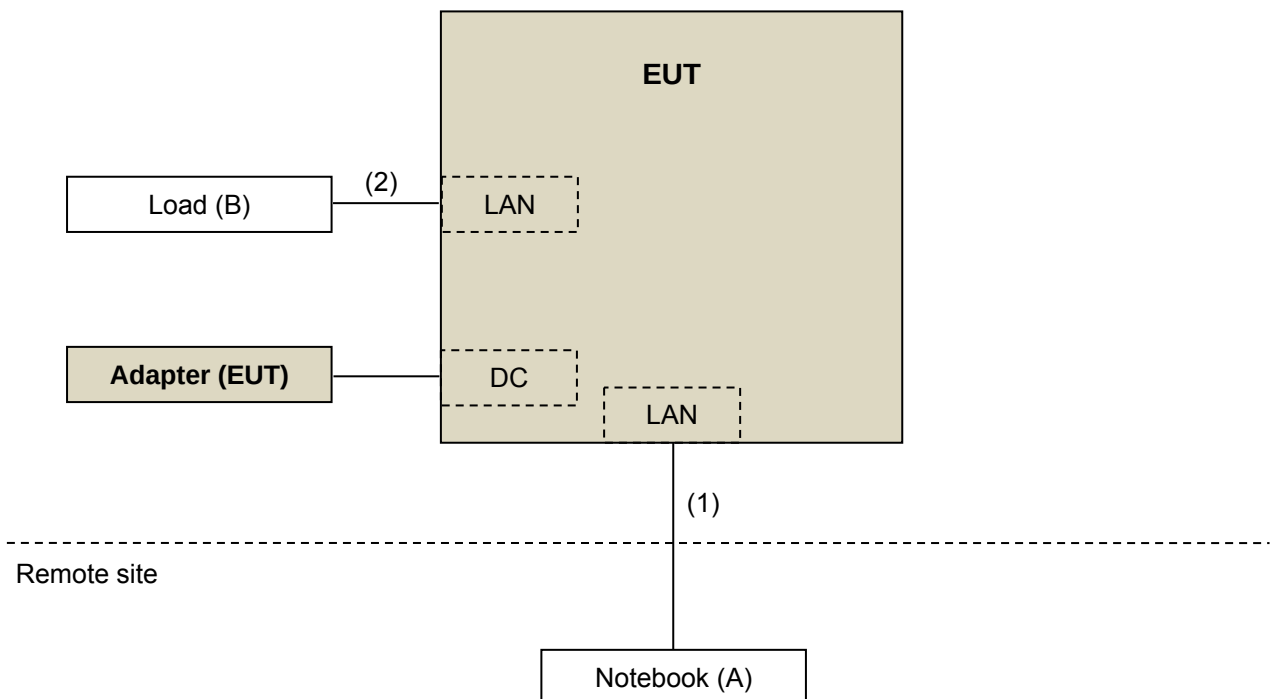
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

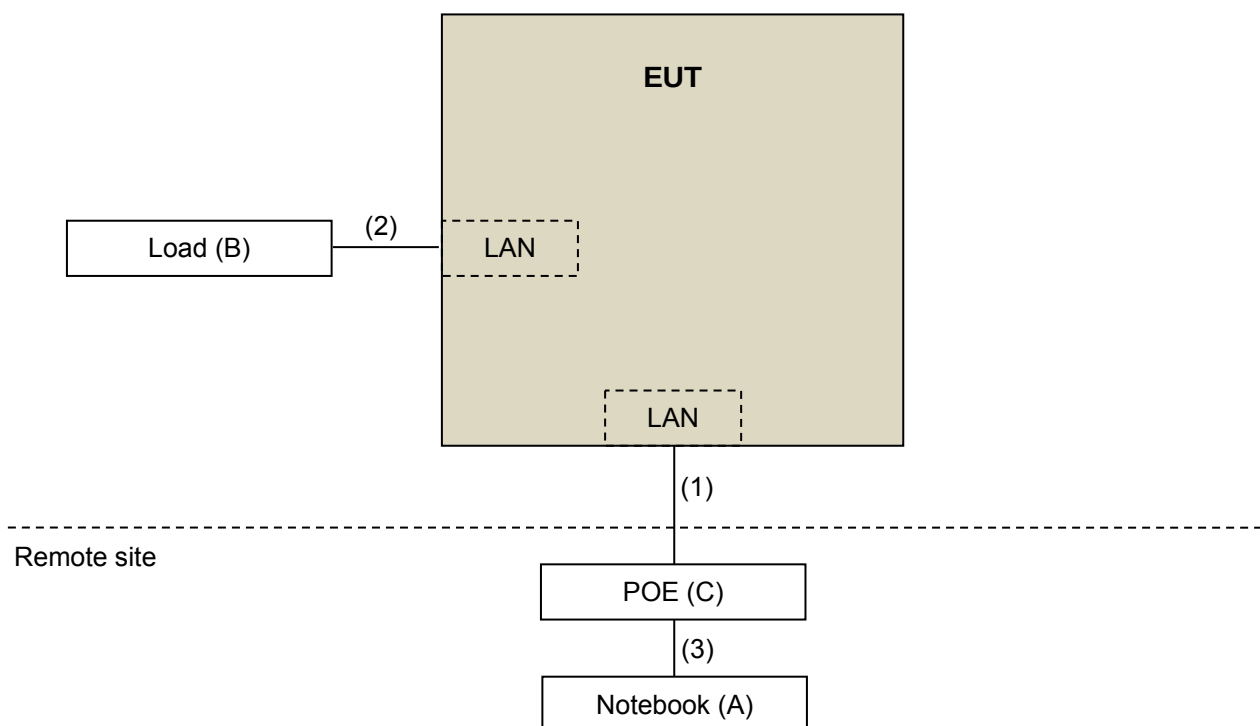
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	5	N	0	-
2.	RJ45, Cat5e	1	1.5	N	0	-
3.	RJ45, Cat5e	1	1	N	0	-

2.3 測試架構圖

Test Mode A



Test Mode B



3 適用規範

3.1 規範要求

(1) 傳導之規定

依據國家通訊傳播委員會低功率射頻電機技術規範之 2.3 節，電源傳導干擾之限制要求如下：

頻率(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。

(2) 帶外發射之規定

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1.5節之要求，操作頻帶範圍外之任意100 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 kHz 內的射頻功率，其衰減值限制如下：(1) 輸出功率以附件二之峰值輸出功率方式測量者，至少須衰減20 dB，可使用射頻傳導或輻射方式測量。(2) 輸出功率以3.10.1.2(1)(C)之最大傳導輸出功率測量方式者，至少須衰減30 dB。

(II) 操作於 5.15 GHz~5.35 GHz 及 5.470 GHz ~5.725 GHz 頻段:

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.4.1節之要求，帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。

(III) 操作於 5.725 GHz~5.850 GHz 頻段:

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.4.2節之要求，所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率35(EIRP) $\leq$ 15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；有關遮罩限制值詳圖1。

在5.725 GHz~5.850 GHz 頻段操作且天線增益大於10dBi 之設備於106 年3 月2日前得適用3.10.1.5 帶外發射限制；在5.725 GHz~5.850 GHz 頻段操作且天線增益小於等於10dBi之設備於107年3月2 日前得適用3.10.1.5帶外發射限制規定。

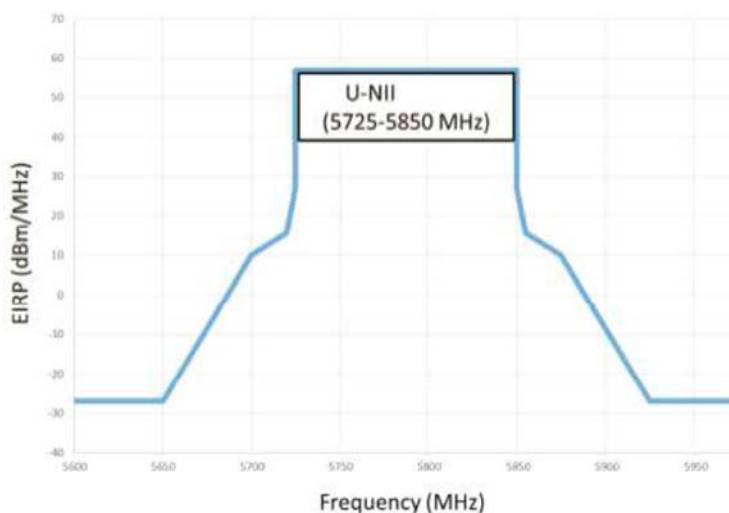


圖 1

在 1 GHz 以下不必要之發射，應符合 2.8 之規定。此外，落於 2.7 禁用頻段之輻射發射，應符合 2.8 之規定。

頻率(MHz)	電場強度(微伏特/公尺, uV/m)	測距(公尺)
0.009 - 0.490(含)	2,400/f(kHz)	300
0.490 (不含) - 1.705 (含)	24,000/f(kHz)	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

(3) 天線之規定

天線規格不受第 2.2 節規定之限制。

(4) 天線增益之要求

低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.3 節及 4.7.3 節之規定如下：

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

(A) 進行固定式點對點操作時，其發射天線之方向性增益超過 6 dBi，每超過 3 dBi，最大傳導輸出功率限制值應降低 1 dB。

(B) 天線以多向波束發射方式(含同時發射或循序發射)將訊號導向多個接收機或接收機群組時，應符合下列規定：

(a) 非同時發射多向波束者，所有載波或頻道傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合 3.10.1.2 之功率限制值。如天線/天線陣列群之方向性增益超過 6 dBi，每超過 3 dBi，總和傳導輸出功率限制值應降低 1 dB。方向性增益值應計算如下：

(i) 方向性增益值 = $10\log(\text{天線陣列之單元數目}) + \text{各單元中最高之方向性增益值}$ 。

(ii) 天線陣列間之遮蔽效應或波束干涉損失能充分佐證時，方向性增益得低於(i)計算數值。

(b) 同時發射多向波束於相同或不同頻道者，其每一波束功率應符合(a)之功率限制值。如發射波束有重疊現象，功率應降低，以確保總和傳導輸出功率符合(a)之限制值。同時發射的所有波束總和傳導輸出功率不大於(a)總和傳導輸出功率限制值加 8 dB。方向性增益值計算同(a)。

(c) 發射機之天線具備單向波束功能者，應符合(1)(A)及(3)後段之規定。

除(A)及(B)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。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

(A) 供戶外操作使用：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 應小於或等於 21 dBm。

(B) 供室內操作使用：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。

(C) 供固定式點對點操作使用：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。

(D) 供用戶端裝置(Client Device)操作使用：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。

(III) 操作於 5.25 GHz~5.35 GHz 與 5.470 GHz ~5.725 GHz 頻段：

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。

- (IV) 操作於 5.725 GHz~5.850 GHz 頻段:
- (A) 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。
- (B) 除(A)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。
- (5) 6dB 頻寬之要求
- (I) 操作於 2400 MHz~2483.5 MHz 頻段：
- 對使用數位調變技術(digital modulation techniques)系統之低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1.6節之規定，6dB頻寬至少應有500kHz。
- (II) 操作於 5.725 GHz~5.850 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.5節之規定，其6dB頻寬至少應有500kHz。
- (6) 傳導輸出功率之要求
- (I) 操作於 2.4000~2.4835 GHz band:
- 依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1.2節之規定：
- 數位調變技術系統：1 W(含)以下。
- (II) 操作於 5.15 GHz~5.25 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.1節之要求：
- (A) 供戶外操作使用/供室內操作使用/供固定式點對點操作使用：最大傳導輸出功率應小於或等於1 W。
- (B) 供用戶端裝置(Client Device)操作使用：最大傳導輸出功率應小於或等於250 mW。
- (III) 操作於 5.25 GHz~5.35 GHz 及 5.470 GHz ~5.725 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.2節之規定，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。
- (IV) 操作於 5.725 GHz~5.850 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.3節之規定，最大傳導輸出功率應小於或等於1 W。
- (7) 功率頻譜密度之要求
- (I) 操作於 2.4000~2.4835 GHz band:
- 依據國家通訊傳播委員會低功率射頻電機技術規範3.10.1.6節之規定，在使用頻率範圍之任一3 kHz 頻寬內，由發射機傳導至天線之功率頻譜密度在任意傳輸期間內，皆小於或等於8 毫分貝(dBm)，且應依3.10.1.3 之方式降低功率頻譜密度限制值。
- (II) 操作於 5.15 GHz~5.25 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.1節之要求：
- (A) 供戶外操作使用/供室內操作使用/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應小於或等於17 dBm。
- (B) 供用戶端裝置(Client Device)操作使用：在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (III) 操作於 5.25 GHz~5.35 GHz 及 5.470 GHz ~5.725 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.2節之規定，最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (IV) 操作於 5.725 GHz~5.850 GHz 頻段：
- 依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.3節之規定，在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。

(8) 發射功率控制(TPC)及動態頻率選擇(DFS)之要求

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.7.1 及 4.7.7.2 節之規定。

發射功率控制(TPC)：操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻段的設備，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 30 dBm 的能力。EIRP 低於 500 mW 之系統不須具備 TPC 功能。

動態頻率選擇(DFS)：操作於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻段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：

(1) 最低動態頻率選擇的偵測門檻

(A) 最大EIRP 為200 mW~1 W之設備，其最低動態頻率選擇的偵測門檻值為-64dBm。

(B) 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。

(C) 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-64 dBm。

(D) 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使用者手動選取。

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

(A) 頻道可用性檢查時間之規定，適用於主控運作模式。

(B) 頻道移動時間之規定，適用於主控及受控運作模式。

(3) 頻道可用性檢查時間：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訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：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，在偵測到雷達訊號後，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訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

(5) 不可佔用期間：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。

(9) 無線資訊傳輸設備必須擁有安全功能之要求：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.7.3 節之規定，無線資訊傳輸設備必須擁有安全功能，以保護未經授權之一方更改軟體。製造商應提出符合本節規定之相關證明文件或符合性聲明。

(10) 依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.7.4 節之規定，製造商必須在操作於 U-NII 頻段上之數位調變系統中提供安全功能，使第三方團體無法重寫程式，使其操作於非經認證之設定。該軟體必須避免發射機操作於非經認證之頻率、輸出功率、調變形式或其他射頻參數。製造商可使用私有網路，只有經授權的用戶能下載軟體、進行軟體式電子簽章或硬體式的韌體更新，新的軟體可以被合法的載入到設備中，同時又能符合上述事項，並於應用程式中描述設備授權的方法。

(11) 依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.7.5 節之規定，製造商必須確保 DFS 功能無法被無線資訊傳輸設備之操作者取消。

(12) 電波暴露量之評估

依據國家通訊傳播委員會低功率射頻電機技術規範 5.20.2 節之規定，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)以證明其符電波暴露量之要求。

限制值如下：

(1) 職業性/可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3 - 3.0	614	1.63	*100	30
3 - 30	1842/f	4.89/f	*180/f ²	30
30 - 300	27.5	0.073	1.0	30
300 - 1,500	---	---	f/1500	30
1,500 - 100,000	---	---	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

3.2 限制使用之頻帶

除本規範另有規定外，任何低功率射頻電機之主波皆不得使用下表所列各頻段之頻率；低功率射頻電機落於下表所列頻段之混附發射，其電場強度必須符合 2.8 之限制規定。

頻率(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090~0.110	240.00~285.00	3332.0~3339.0
0.490~0.510	322.00~335.40	3345.8~3358.0
2.172~2.198	399.90~410.00	3500.0~4400.0
3.013~3.033	485.00~510.00	4500.0~5250.0
4.115~4.198	608.00~614.00	5350.0~5460.0
5.670~5.690	703.00~748.00	7250.0~7750.0
6.200~6.300	758.00~803.00	8025.0~8500.0
8.230~8.400	825.00~915.00	9000.0~9200.0
12.265~12.600	930.00~1240.0	9300.0~9500.0
13.340~13.430	1300.0~1427.0	10600~12700
14.965~15.020	1435.0~1626.5	13250~13400
16.700~16.755	1660.0~1785.0	14470~14500
19.965~20.020	1805.0~1880.0	15350~16200
25.500~25.700	1885.0~1900.0	17700~21400
37.475~38.275	1905.0~1985.0	22010~23120
73.500~75.400	2010.0~2025.0	23600~24000
108.00~138.00	2110.0~2170.0	31200~31800
149.90~150.05	2200.0~2300.0	36430~36500
156.70~156.90	2310.0~2390.0	38600 以上
162.01~167.17	2483.5~2900.0	
167.72~173.20	3260.0~3267.0	

2.4GHz 頻段測試紀錄結果

4 帶外發射之量測

4.1 適用標準

請見本報告3.1節第2項(I)的規定。

4.2 量測方法

在電波暗室，將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態。接收天線置於3米距離。桌面要360度旋轉，另外接收天線從離地1米至4米升降變化，以找出最大的輻射電場強度，接收天線分別置於水平、垂直極化各執行測試一次。

備註：對於 1GHz 以上場強輻射的測試，待測物則置於1.5米高的非金屬桌面。

4.3 量測儀器

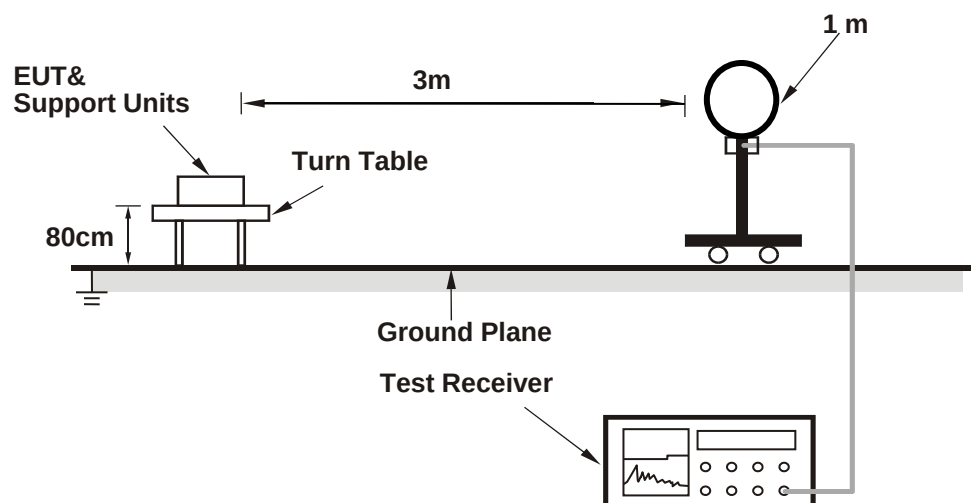
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 29, 2018	May 28, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Aug. 08, 2018	Aug. 07, 2019
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jul. 02, 2018	Jul. 01, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2018	Aug. 07, 2019
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Aug. 08, 2018	Aug. 07, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Nov. 14, 2018	Nov. 13, 2019

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.
3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
4. The IC Site Registration No. is 7450F-4.
5. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

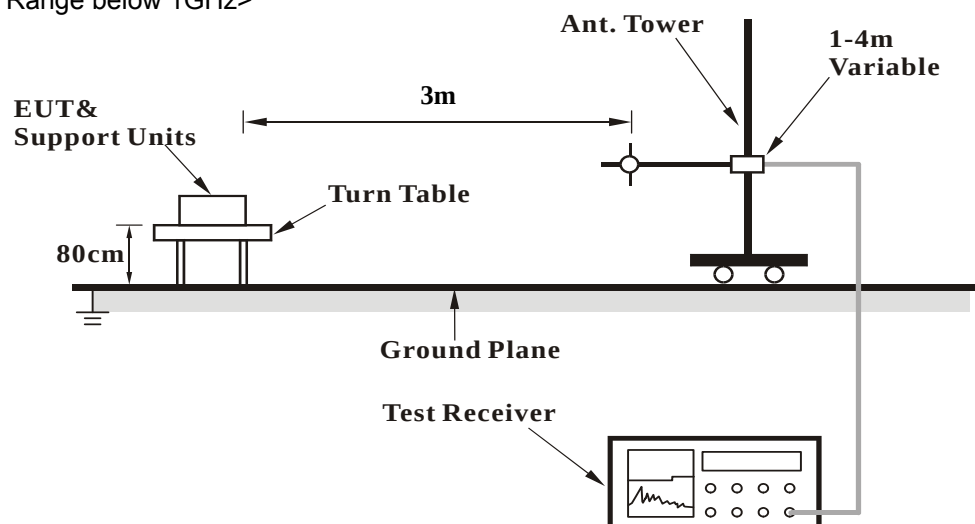
Measurement	Frequency	Uncertainty
Radiated emissions	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

4.4 測試配置

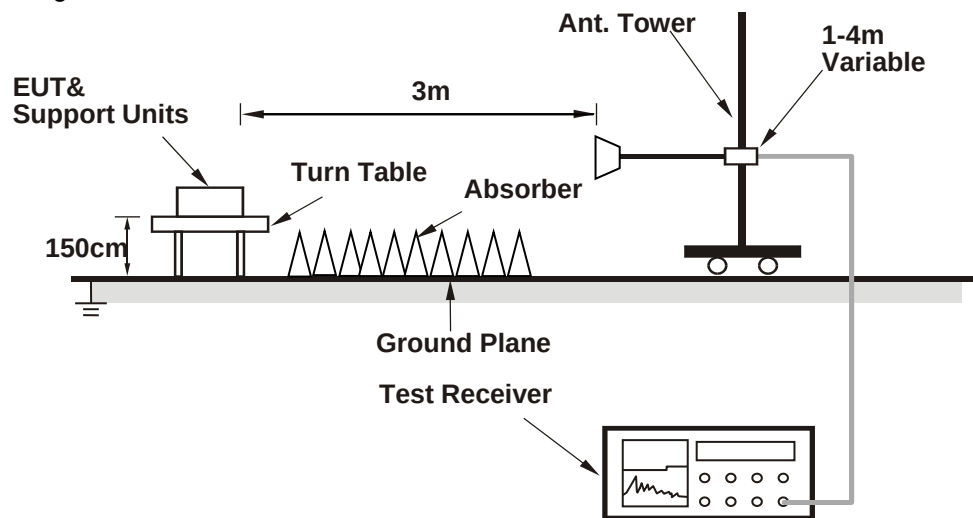
<Frequency Range below 30MHz>



<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



4.5 場強度之計算

場強之計算公式如下：

結果值Emission level (dBuV/m)=機器讀值 Raw Value (dBuV) +校正因子Correction Factor (dB/m)

餘裕度Margin(dB)= 結果值Emission level (dBuV/m)-限制值Limit value (dBuV/m)

量測結果請見下頁。

4.6 量測結果

4.6.1 發射諧波

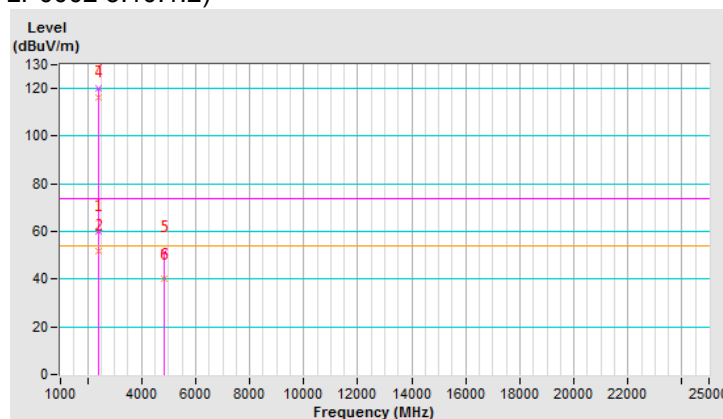
802.11b

操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	25°C	量測場地濕度：	70%RH
測試日期：	107 年 12 月 20 日	測試者：	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.0 PK	74.0	-14.0	2.32 H	35	26.2	33.8
2	2390.00	51.9 AV	54.0	-2.1	2.32 H	35	18.1	33.8
3	*2412.00	120.4 PK			2.32 H	35	86.6	33.8
4	*2412.00	116.2 AV			2.32 H	35	82.4	33.8
5	4824.00	51.2 PK	74.0	-22.8	2.15 H	320	38.0	13.2
6	4824.00	39.9 AV	54.0	-14.1	2.15 H	320	26.7	13.2
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “#”: The radiated frequency is out of the restricted band
7. “-”: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

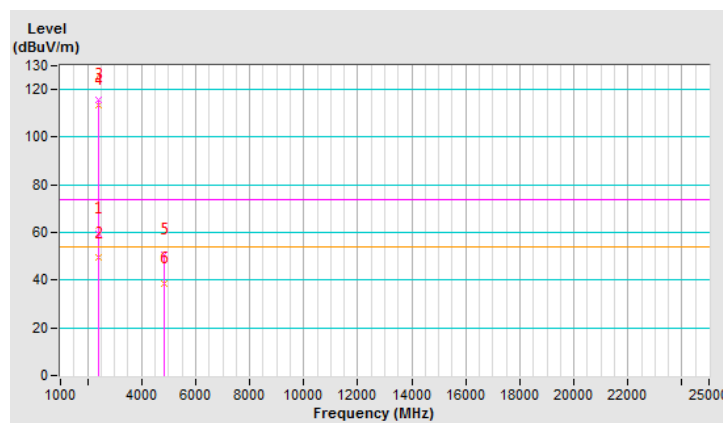


操 作 模 式 :	發射	調 變 技 術 :	DSSS
基 本 波 頻 率 :	CH 1 : 2412 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.7 PK	74.0	-14.3	3.98 V	307	25.9	33.8
2	2390.00	49.3 AV	54.0	-4.7	3.98 V	307	15.5	33.8
3	*2412.00	115.5 PK			3.98 V	307	81.7	33.8
4	*2412.00	113.5 AV			3.98 V	307	79.7	33.8
5	4824.00	50.7 PK	74.0	-23.3	2.41 V	187	37.5	13.2
6	4824.00	38.8 AV	54.0	-15.2	2.41 V	187	25.6	13.2
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

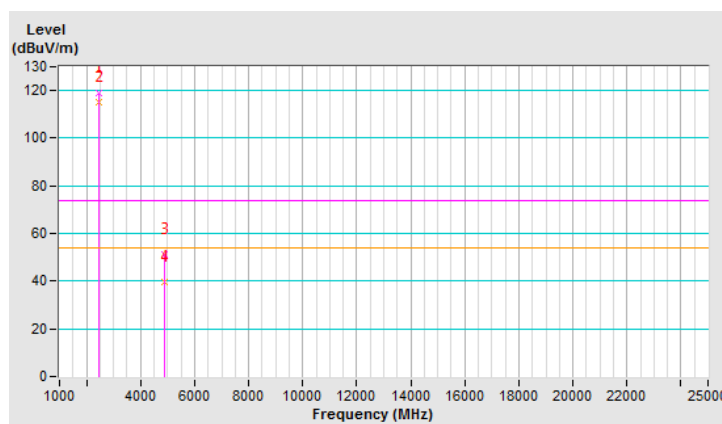


操 作 模 式 :	發射	調 變 技 術 :	DSSS
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 20 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	119.2 PK			2.74 H	336	85.4	33.8
2	*2437.00	115.4 AV			2.74 H	336	81.6	33.8
3	4874.00	51.2 PK	74.0	-22.8	2.89 H	105	38.0	13.2
4	4874.00	39.9 AV	54.0	-14.1	2.89 H	105	26.7	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

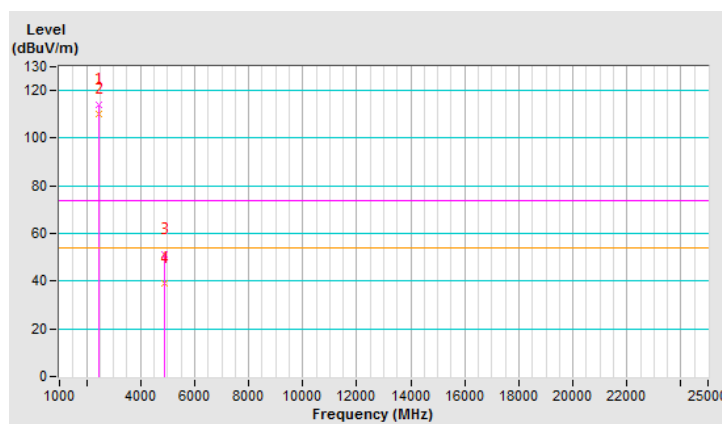


操 作 模 式 :	發射	調 變 技 術 :	DSSS
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.9 PK			3.90 V	298	80.1	33.8
2	*2437.00	110.1 AV			3.90 V	298	76.3	33.8
3	4874.00	51.1 PK	74.0	-22.9	2.54 V	117	37.9	13.2
4	4874.00	39.0 AV	54.0	-15.0	2.54 V	117	25.8	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

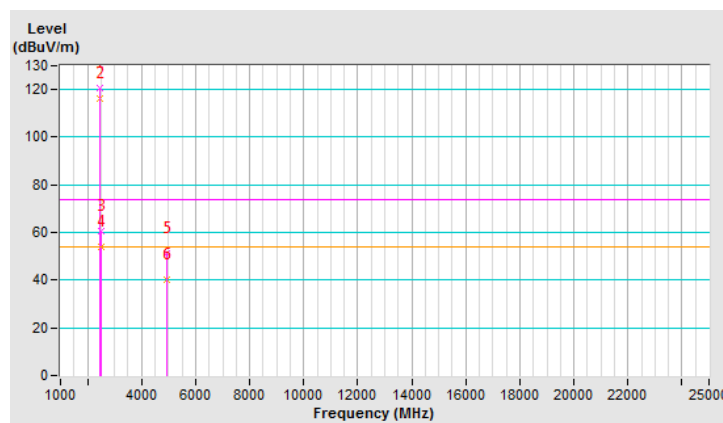


操 作 模 式 :	發射	調 變 技 術 :	DSSS
基 本 波 頻 率 :	CH 11 : 2462 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 20 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	120.5 PK			2.02 H	3	86.6	33.9
2	*2462.00	116.5 AV			2.02 H	3	82.6	33.9
3	2483.50	60.5 PK	74.0	-13.5	2.02 H	3	26.6	33.9
4	2483.50	53.8 AV	54.0	-0.2	2.02 H	3	19.9	33.9
5	4924.00	51.4 PK	74.0	-22.6	2.17 H	336	38.1	13.3
6	4924.00	40.2 AV	54.0	-13.8	2.17 H	336	26.9	13.3
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



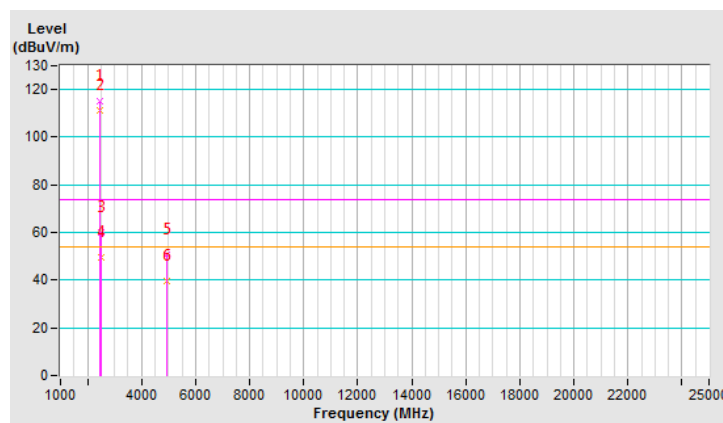
操 作 模 式 :	發射	調 變 技 術 :	DSSS
基 本 波 頻 率 :	CH 11 : 2462 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.1 PK			3.99 V	305	81.2	33.9
2	*2462.00	111.2 AV			3.99 V	305	77.3	33.9
3	2483.50	60.3 PK	74.0	-13.7	3.99 V	305	26.4	33.9
4	2483.50	49.5 AV	54.0	-4.5	3.99 V	305	15.6	33.9
5	4924.00	50.9 PK	74.0	-23.1	2.63 V	222	37.6	13.3
6	4924.00	39.6 AV	54.0	-14.4	2.63 V	222	26.3	13.3
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



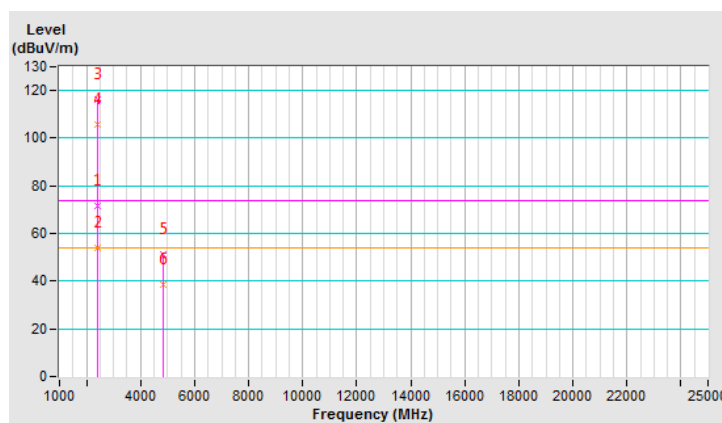
802.11g

操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 1 : 2412 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.4 PK	74.0	-2.6	1.80 H	5	37.6	33.8
2	2390.00	53.9 AV	54.0	-0.1	1.80 H	5	20.1	33.8
3	*2412.00	116.1 PK			1.80 H	5	82.3	33.8
4	*2412.00	105.9 AV			1.80 H	5	72.1	33.8
5	4824.00	51.4 PK	74.0	-22.6	2.44 H	135	38.2	13.2
6	4824.00	38.8 AV	54.0	-15.2	2.44 H	135	25.6	13.2
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

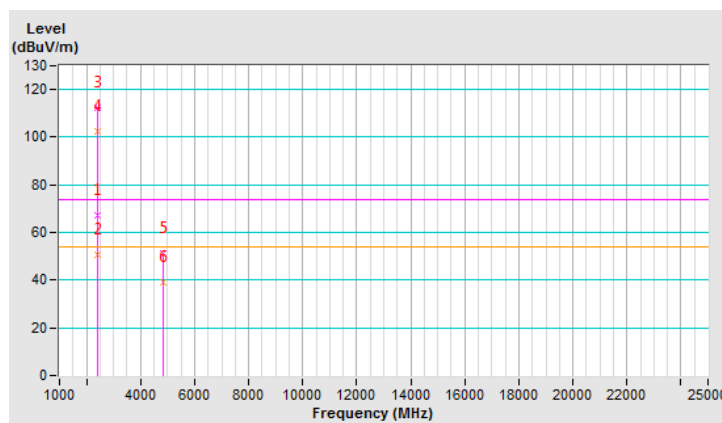


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 1 : 2412 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.3 PK	74.0	-6.7	3.88 V	57	33.5	33.8
2	2390.00	50.9 AV	54.0	-3.1	3.88 V	57	17.1	33.8
3	*2412.00	112.2 PK			3.88 V	57	78.4	33.8
4	*2412.00	102.3 AV			3.88 V	57	68.5	33.8
5	4824.00	51.1 PK	74.0	-22.9	2.55 V	193	37.9	13.2
6	4824.00	39.2 AV	54.0	-14.8	2.55 V	193	26.0	13.2
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

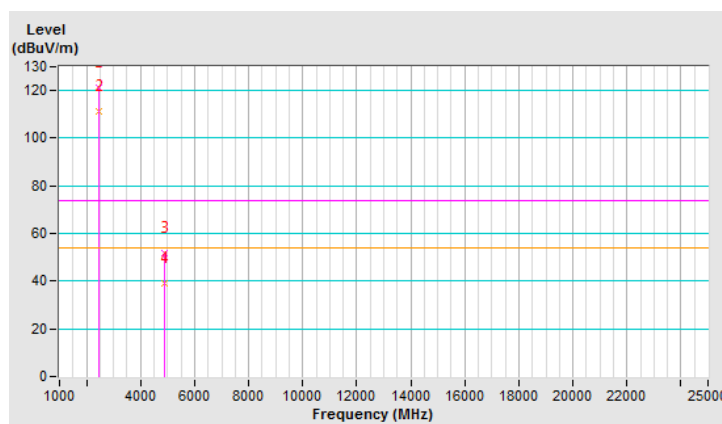


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	121.2 PK			1.43 H	3	87.4	33.8
2	*2437.00	111.0 AV			1.43 H	3	77.2	33.8
3	4874.00	51.8 PK	74.0	-22.2	1.68 H	225	38.6	13.2
4	4874.00	39.0 AV	54.0	-15.0	1.68 H	225	25.8	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

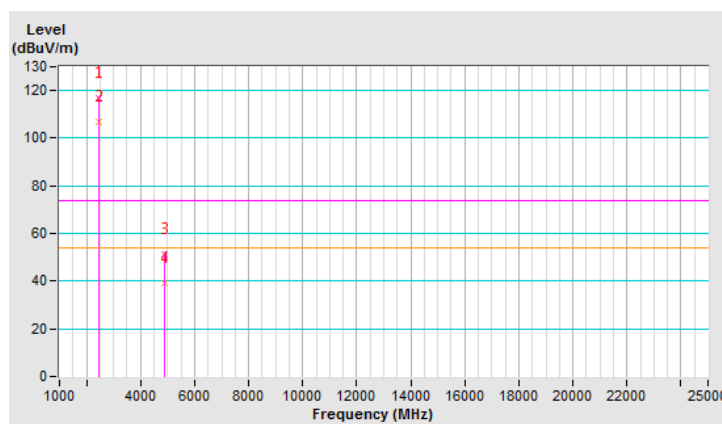


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.0 PK			3.86 V	63	83.2	33.8
2	*2437.00	106.9 AV			3.86 V	63	73.1	33.8
3	4874.00	51.4 PK	74.0	-22.6	1.96 V	220	38.2	13.2
4	4874.00	38.9 AV	54.0	-15.1	1.96 V	220	25.7	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

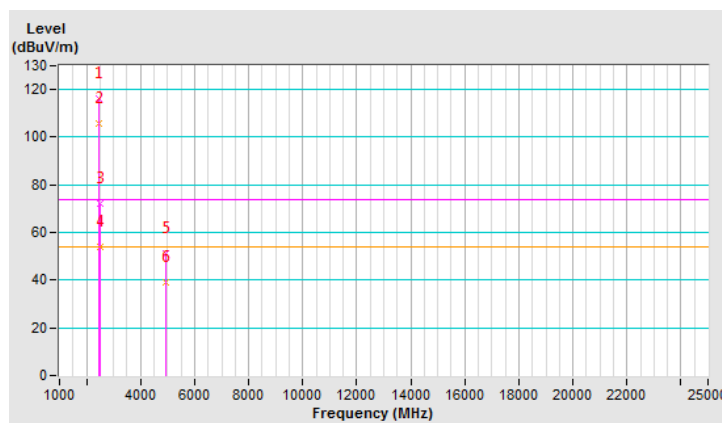


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 11 : 2462 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.3 PK			1.33 H	1	82.4	33.9
2	*2462.00	105.8 AV			1.33 H	1	71.9	33.9
3	2483.50	72.4 PK	74.0	-1.6	1.33 H	1	38.5	33.9
4	2483.50	53.9 AV	54.0	-0.1	1.33 H	1	20.0	33.9
5	4924.00	51.3 PK	74.0	-22.7	2.61 H	173	38.0	13.3
6	4924.00	39.0 AV	54.0	-15.0	2.61 H	173	25.7	13.3
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



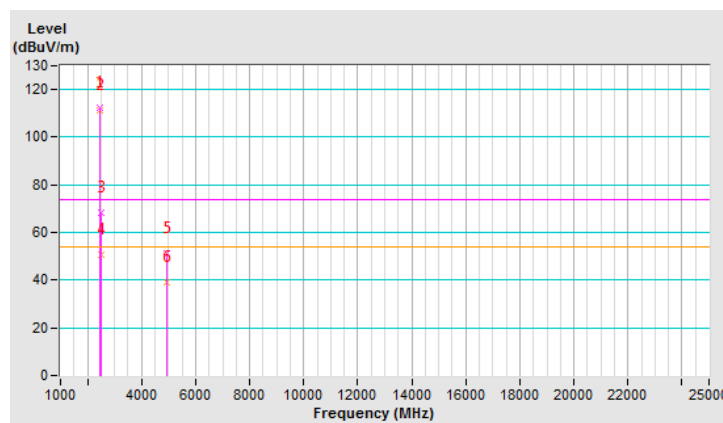
操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 11 : 2462 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.2 PK			3.92 V	55	78.3	33.9
2	*2462.00	111.4 AV			3.92 V	55	77.5	33.9
3	2483.50	68.2 PK	74.0	-5.8	3.92 V	55	34.3	33.9
4	2483.50	50.7 AV	54.0	-3.3	3.92 V	55	16.8	33.9
5	4924.00	51.0 PK	74.0	-23.0	1.93 V	201	37.7	13.3
6	4924.00	39.1 AV	54.0	-14.9	1.93 V	201	25.8	13.3
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



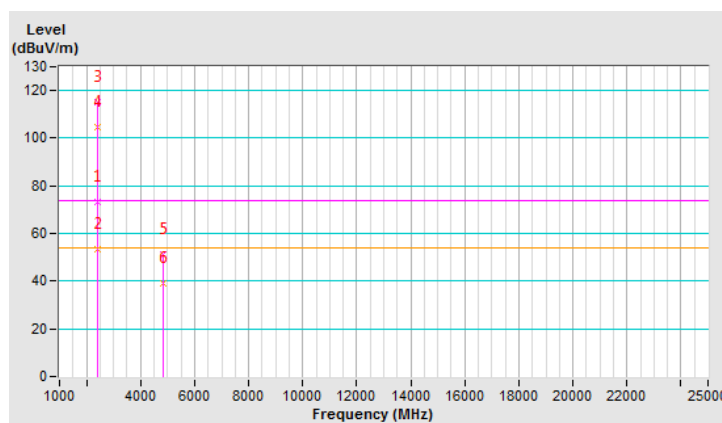
802.11n (HT20)

操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 1 : 2412 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	73.5 PK	74.0	-0.5	1.83 H	40	39.7	33.8
2	2390.00	53.7 AV	54.0	-0.3	1.83 H	40	19.9	33.8
3	*2412.00	115.2 PK			1.83 H	40	81.4	33.8
4	*2412.00	104.8 AV			1.83 H	40	71.0	33.8
5	4824.00	51.3 PK	74.0	-22.7	1.63 H	220	38.1	13.2
6	4824.00	39.1 AV	54.0	-14.9	1.63 H	220	25.9	13.2
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

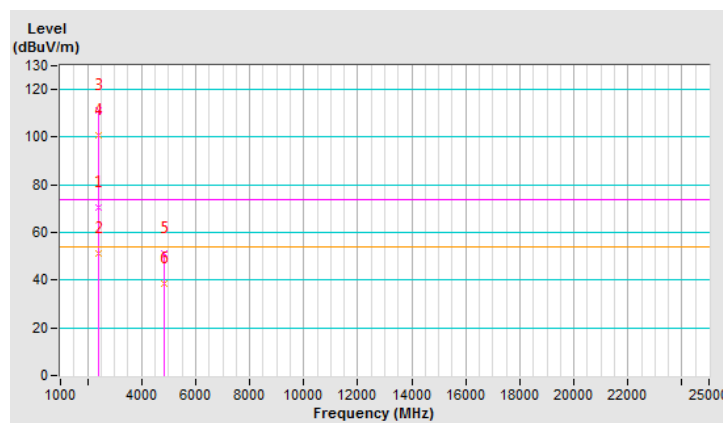


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 1 : 2412 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.7 PK	74.0	-3.3	3.90 V	59	36.9	33.8
2	2390.00	51.0 AV	54.0	-3.0	3.90 V	59	17.2	33.8
3	*2412.00	111.3 PK			3.90 V	59	77.5	33.8
4	*2412.00	100.8 AV			3.90 V	59	67.0	33.8
5	4824.00	51.0 PK	74.0	-23.0	1.90 V	142	37.8	13.2
6	4824.00	38.8 AV	54.0	-15.2	1.90 V	142	25.6	13.2
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

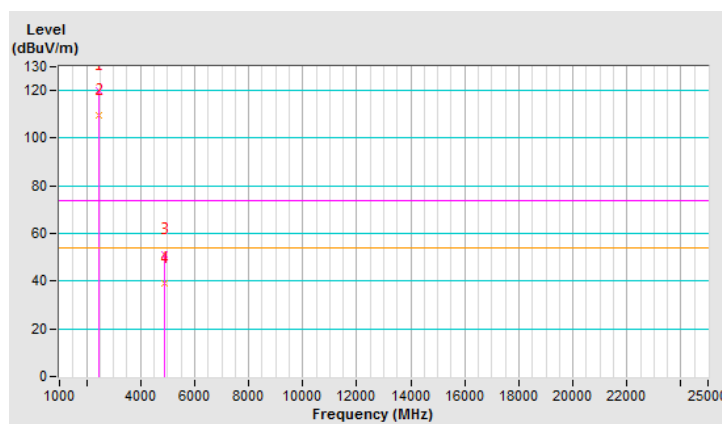


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	119.9 PK			1.62 H	318	86.1	33.8
2	*2437.00	109.8 AV			1.62 H	318	76.0	33.8
3	4874.00	51.3 PK	74.0	-22.7	2.35 H	174	38.1	13.2
4	4874.00	39.1 AV	54.0	-14.9	2.35 H	174	25.9	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

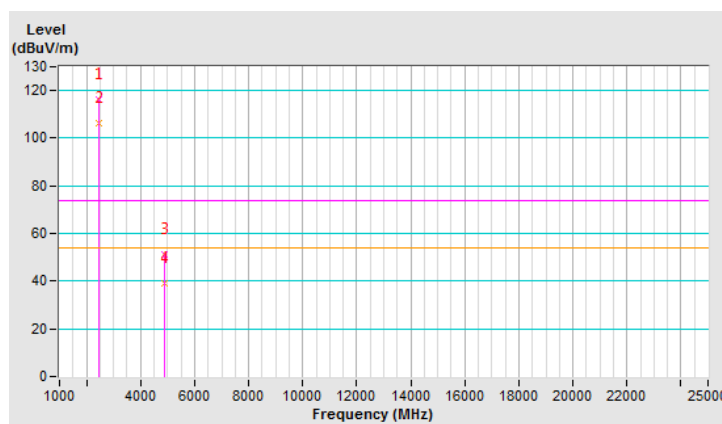


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.4 PK			3.88 V	50	82.6	33.8
2	*2437.00	106.1 AV			3.88 V	50	72.3	33.8
3	4874.00	51.2 PK	74.0	-22.8	1.63 V	220	38.0	13.2
4	4874.00	39.1 AV	54.0	-14.9	1.63 V	220	25.9	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

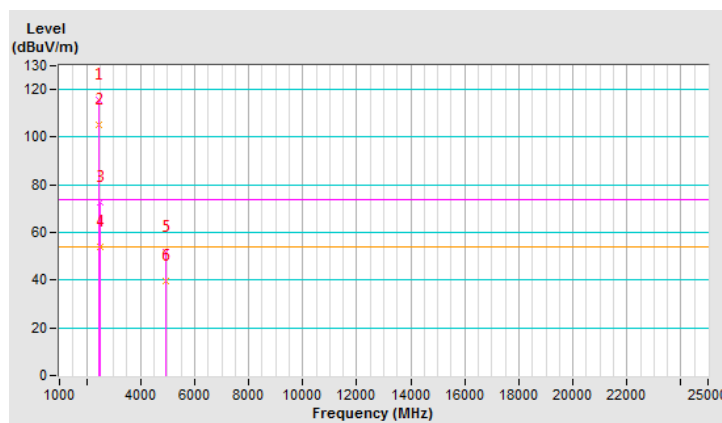


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 11 : 2462 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.5 PK			1.93 H	33	81.6	33.9
2	*2462.00	105.4 AV			1.93 H	33	71.5	33.9
3	2483.50	72.7 PK	74.0	-1.3	1.93 H	33	38.8	33.9
4	2483.50	53.8 AV	54.0	-0.2	1.93 H	33	19.9	33.9
5	4924.00	51.6 PK	74.0	-22.4	2.39 H	301	38.3	13.3
6	4924.00	39.5 AV	54.0	-14.5	2.39 H	301	26.2	13.3
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

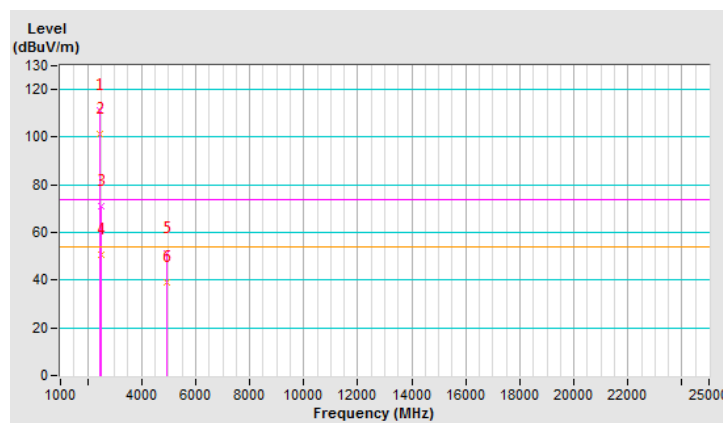


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 11 : 2462 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.5 PK			3.88 V	56	77.6	33.9
2	*2462.00	101.3 AV			3.88 V	56	67.4	33.9
3	2483.50	70.9 PK	74.0	-3.1	3.88 V	56	37.0	33.9
4	2483.50	50.8 AV	54.0	-3.2	3.88 V	56	16.9	33.9
5	4924.00	51.2 PK	74.0	-22.8	1.05 V	339	37.9	13.3
6	4924.00	39.1 AV	54.0	-14.9	1.05 V	339	25.8	13.3
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



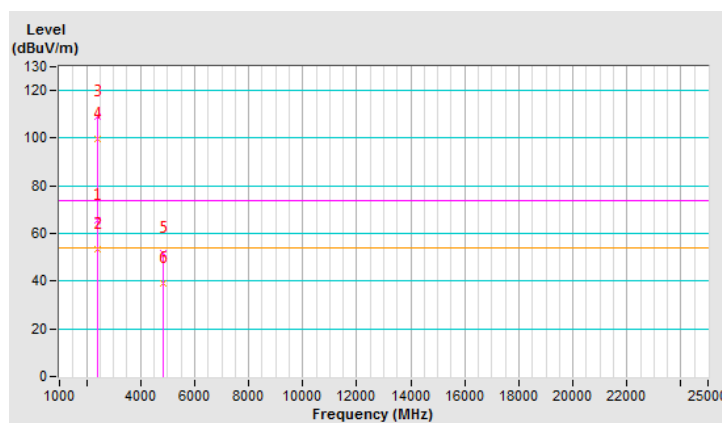
802.11n (HT40)

操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 3 : 2422 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.5 PK	74.0	-8.5	1.91 H	329	31.7	33.8
2	2390.00	53.5 AV	54.0	-0.5	1.91 H	329	19.7	33.8
3	*2422.00	108.9 PK			1.91 H	329	75.1	33.8
4	*2422.00	99.5 AV			1.91 H	329	65.7	33.8
5	4844.00	51.8 PK	74.0	-22.2	1.35 H	210	38.6	13.2
6	4844.00	39.3 AV	54.0	-14.7	1.35 H	210	26.1	13.2
	7266.00	-	-	-	-	-	-	-
	9688.00	-	-	-	-	-	-	-
	12110.00	-	-	-	-	-	-	-
	14532.00	-	-	-	-	-	-	-
	16954.00	-	-	-	-	-	-	-
	19376.00	-	-	-	-	-	-	-
	21798.00	-	-	-	-	-	-	-
	24220.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



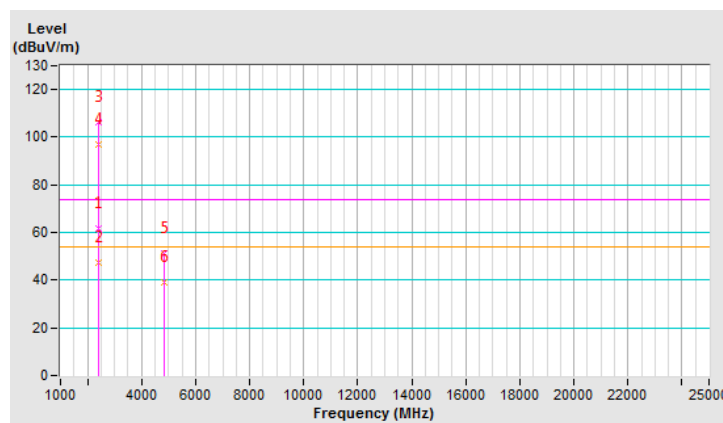
操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 3 : 2422 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.5 PK	74.0	-12.5	3.89 V	57	27.7	33.8
2	2390.00	47.1 AV	54.0	-6.9	3.89 V	57	13.3	33.8
3	*2422.00	106.4 PK			3.89 V	57	72.6	33.8
4	*2422.00	96.8 AV			3.89 V	57	63.0	33.8
5	4844.00	51.4 PK	74.0	-22.6	1.70 V	311	38.2	13.2
6	4844.00	39.0 AV	54.0	-15.0	1.70 V	311	25.8	13.2
	7266.00	-	-	-	-	-	-	-
	9688.00	-	-	-	-	-	-	-
	12110.00	-	-	-	-	-	-	-
	14532.00	-	-	-	-	-	-	-
	16954.00	-	-	-	-	-	-	-
	19376.00	-	-	-	-	-	-	-
	21798.00	-	-	-	-	-	-	-
	24220.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

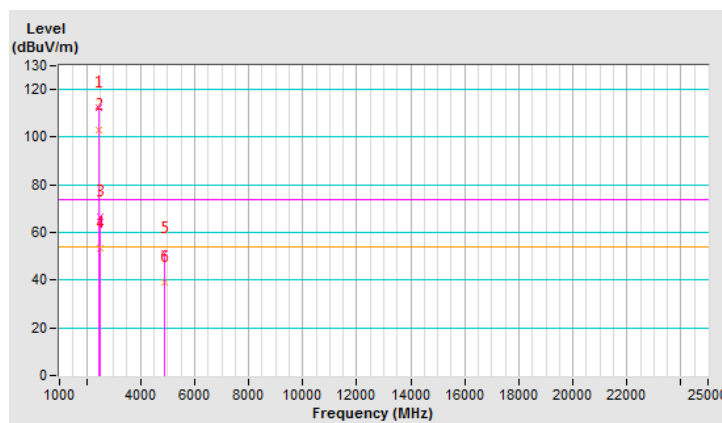


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.3 PK			1.04 H	2	78.5	33.8
2	*2437.00	102.9 AV			1.04 H	2	69.1	33.8
3	2483.50	66.4 PK	74.0	-7.6	1.04 H	2	32.5	33.9
4	2483.50	53.5 AV	54.0	-0.5	1.04 H	2	19.6	33.9
5	4874.00	51.3 PK	74.0	-22.7	2.92 H	157	38.1	13.2
6	4874.00	39.3 AV	54.0	-14.7	2.92 H	157	26.1	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

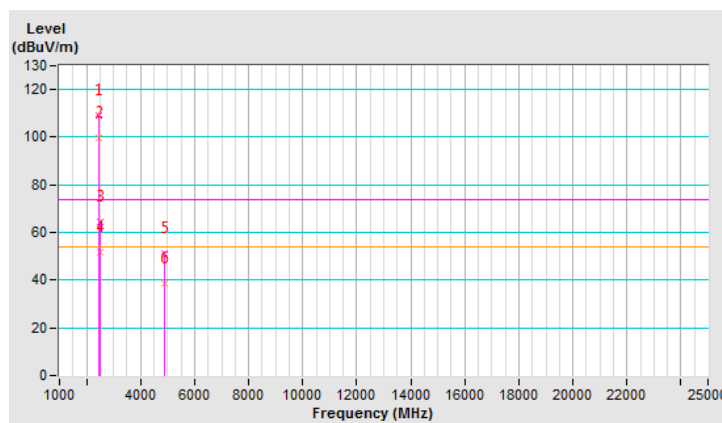


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.1 PK			3.87 V	53	75.3	33.8
2	*2437.00	99.8 AV			3.87 V	53	66.0	33.8
3	2483.50	64.4 PK	74.0	-9.6	3.87 V	53	30.5	33.9
4	2483.50	51.7 AV	54.0	-2.3	3.87 V	53	17.8	33.9
5	4874.00	51.0 PK	74.0	-23.0	1.68 V	215	37.8	13.2
6	4874.00	38.8 AV	54.0	-15.2	1.68 V	215	25.6	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

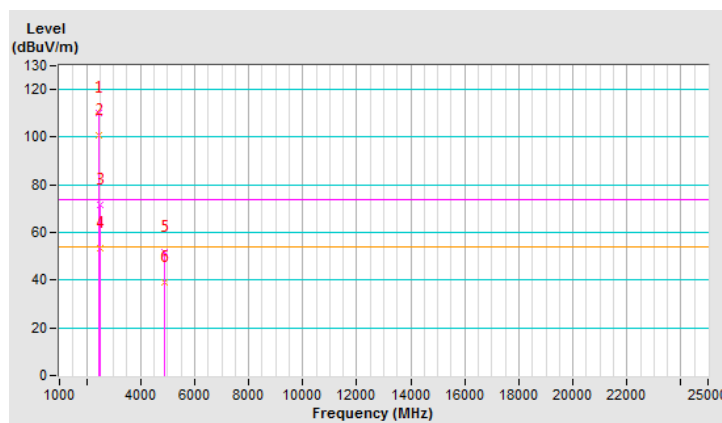


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 9 : 2452 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	110.4 PK			1.91 H	31	76.6	33.8
2	*2452.00	101.0 AV			1.91 H	31	67.2	33.8
3	2483.50	71.7 PK	74.0	-2.3	1.91 H	31	37.8	33.9
4	2483.50	53.5 AV	54.0	-0.5	1.91 H	31	19.6	33.9
5	4904.00	52.0 PK	74.0	-22.0	1.64 H	177	38.6	13.4
6	4904.00	39.2 AV	54.0	-14.8	1.64 H	177	25.8	13.4
	7356.00	-	-	-	-	-	-	-
	9808.00	-	-	-	-	-	-	-
	12260.00	-	-	-	-	-	-	-
	14712.00	-	-	-	-	-	-	-
	17164.00	-	-	-	-	-	-	-
	19616.00	-	-	-	-	-	-	-
	22068.00	-	-	-	-	-	-	-
	24520.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

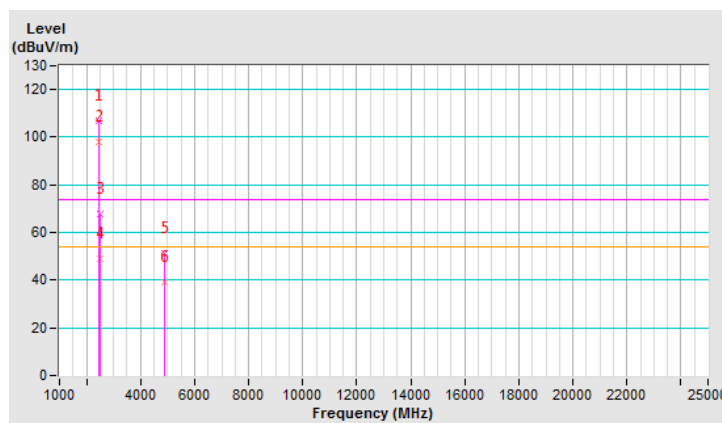


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 9 : 2452 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 21 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	107.1 PK			3.93 V	61	73.3	33.8
2	*2452.00	98.0 AV			3.93 V	61	64.2	33.8
3	2483.50	67.7 PK	74.0	-6.3	3.93 V	61	33.8	33.9
4	2483.50	49.3 AV	54.0	-4.7	3.93 V	61	15.4	33.9
5	4904.00	51.2 PK	74.0	-22.8	2.30 V	116	37.8	13.4
6	4904.00	39.3 AV	54.0	-14.7	2.30 V	116	25.9	13.4
	7356.00	-	-	-	-	-	-	-
	9808.00	-	-	-	-	-	-	-
	12260.00	-	-	-	-	-	-	-
	14712.00	-	-	-	-	-	-	-
	17164.00	-	-	-	-	-	-	-
	19616.00	-	-	-	-	-	-	-
	22068.00	-	-	-	-	-	-	-
	24520.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)



4.6.2 接收諧波

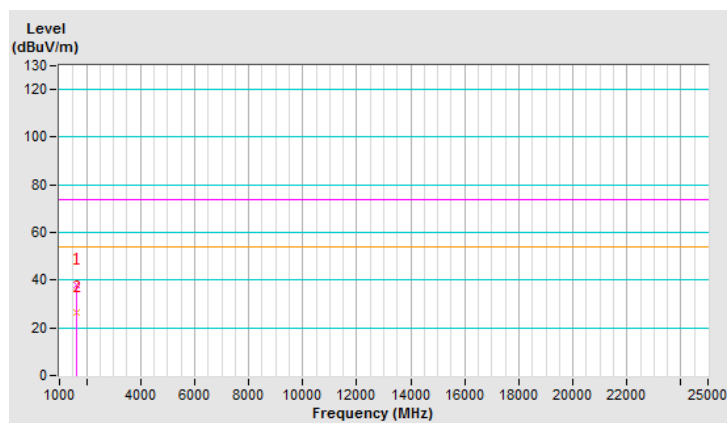
802.11g

操 作 模 式 :	接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1625.00	37.8 PK	74.0	-36.2	2.96 H	325	39.0	-1.2
2	1625.00	26.7 AV	54.0	-27.3	2.96 H	325	27.9	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit

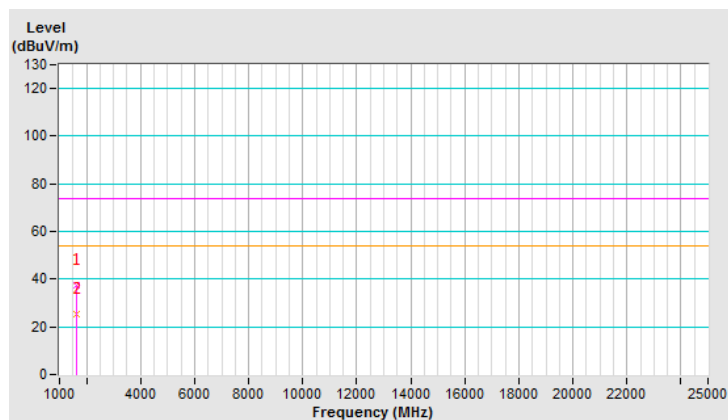


操 作 模 式 :	接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1625.00	37.3 PK	74.0	-36.7	1.05 V	325	38.5	-1.2
2	1625.00	25.6 AV	54.0	-28.4	1.05 V	325	26.8	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit



4.6.3 其它不必要之訊號

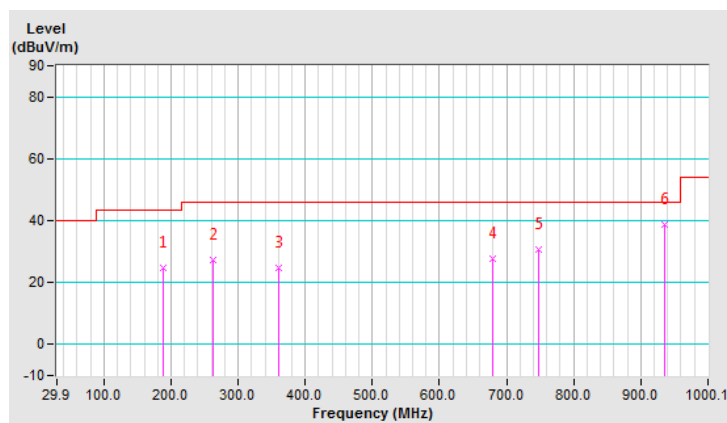
802.11g

操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李哲銘
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	189.01	24.9 QP	43.5	-18.6	2.00 H	276	36.0	-11.1
2	262.75	27.4 QP	46.0	-18.6	1.00 H	64	36.5	-9.1
3	359.77	24.6 QP	46.0	-21.4	1.00 H	161	31.8	-7.2
4	679.93	27.8 QP	46.0	-18.2	1.00 H	95	28.8	-1.0
5	747.85	30.7 QP	46.0	-15.3	1.50 H	112	29.8	0.9
6	936.07	38.6 QP	46.0	-7.4	1.00 H	22	34.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

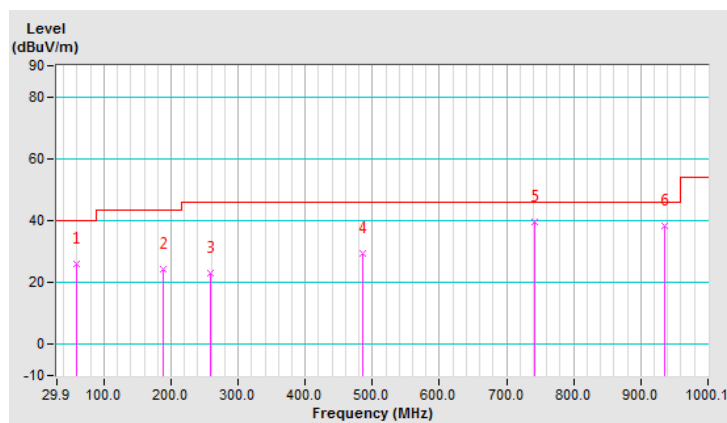


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李哲銘
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	59.01	26.2 QP	40.0	-13.8	2.00 V	45	35.9	-9.7
2	189.01	24.3 QP	43.5	-19.2	1.00 V	203	35.4	-11.1
3	258.87	23.2 QP	46.0	-22.8	1.00 V	286	32.4	-9.2
4	485.89	29.5 QP	46.0	-16.5	1.50 V	259	34.8	-5.3
5	742.03	39.4 QP	46.0	-6.6	1.00 V	40	38.6	0.8
6	936.07	38.4 QP	46.0	-7.6	1.50 V	354	34.4	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

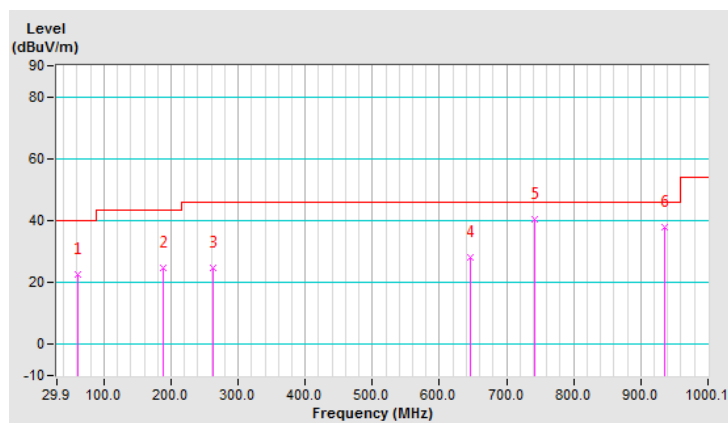


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李哲銘
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.95	22.7 QP	40.0	-17.3	1.50 H	76	32.8	-10.1
2	189.01	24.9 QP	43.5	-18.6	1.00 H	296	36.0	-11.1
3	262.75	24.7 QP	46.0	-21.3	1.50 H	80	33.8	-9.1
4	646.95	28.0 QP	46.0	-18.0	1.50 H	103	29.6	-1.6
5	742.03	40.5 QP	46.0	-5.5	1.00 H	307	39.7	0.8
6	936.07	37.8 QP	46.0	-8.2	1.00 H	168	33.8	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

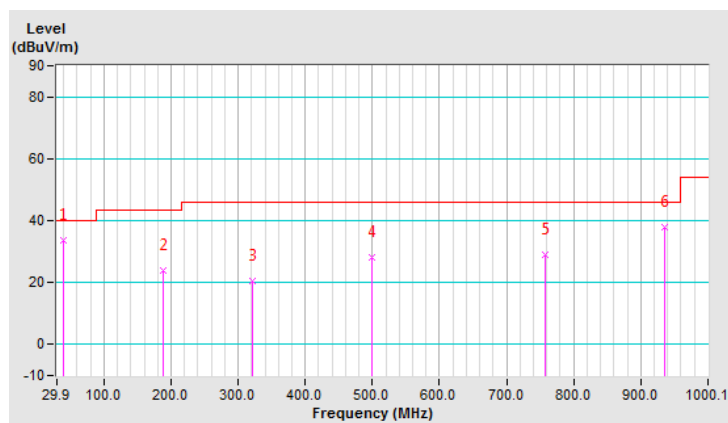


操作模式：	發射/接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	25°C	量測場地濕度：	70%RH
測試日期：	107 年 12 月 25 日	測試者：	李哲銘
測試模式：	B		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.60	33.6 QP	40.0	-6.4	1.50 V	330	43.0	-9.4
2	189.01	23.9 QP	43.5	-19.6	1.00 V	217	35.0	-11.1
3	320.96	20.5 QP	46.0	-25.5	1.00 V	130	28.0	-7.5
4	499.48	28.2 QP	46.0	-17.8	1.00 V	251	33.2	-5.0
5	757.55	29.0 QP	46.0	-17.0	1.50 V	239	27.8	1.2
6	936.07	37.9 QP	46.0	-8.1	1.00 V	282	33.9	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



4.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

4.8 配置照片

請參閱附件（測試設置照片）。

5 電源線傳導干擾之量測

5.1 適用標準

請見本報告3.1節第1項的規定。

5.2 量測方法

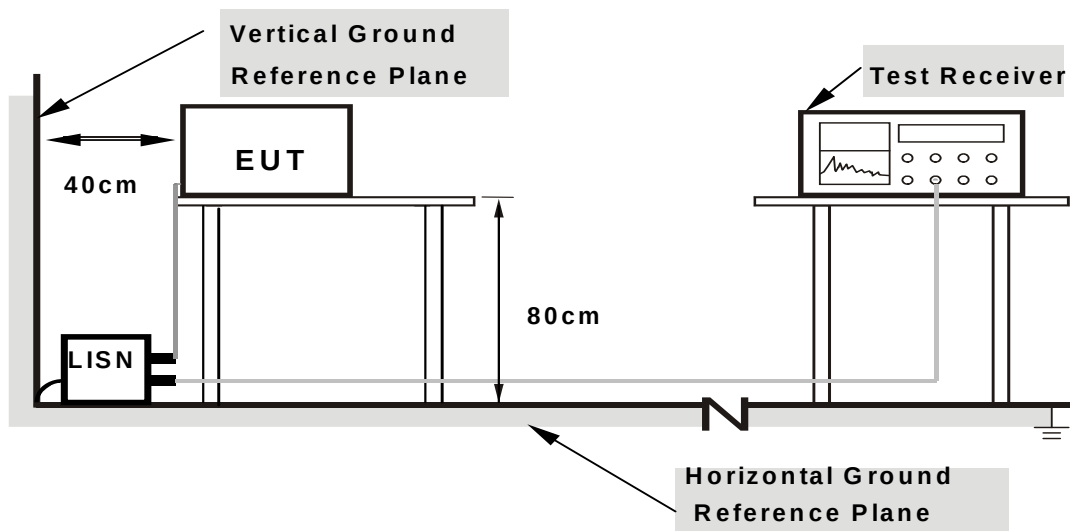
將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由0.15MHz至30MHz之間之電源線傳導放射強度。

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 10, 2018	Dec. 09, 2019
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 26, 2018	Feb. 25, 2019
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
Software ADT	BV ADT_Conf_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-12040.
 4. The measurement uncertainty is 2.94 dB, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.4 測試配置



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.5 干擾值之計算

餘裕度Margin(dB)= 結果值Emission level (dBuV)-限制值Limit value (dBuV)

電源傳導干擾電壓之計算公式如下

結果值Emission level (dBuV)=校正因子Correction Factor (dB)+儀器讀值Reading value (dBuV)

其中校正因子Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

5.6 量測結果

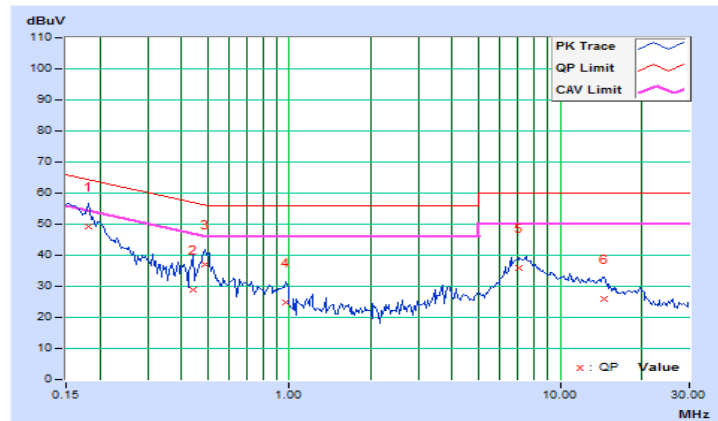
802.11g

操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	A

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.18125	9.67	39.73	25.02	49.40	34.69	64.43	54.43	-15.03	-19.74
0.43906	9.66	19.40	10.41	29.06	20.07	57.08	47.08	-28.02	-27.01
0.48984	9.66	27.55	19.55	37.21	29.21	56.17	46.17	-18.96	-16.96
0.96641	9.65	15.02	7.91	24.67	17.56	56.00	46.00	-31.33	-28.44
7.08594	9.79	26.07	21.48	35.86	31.27	60.00	50.00	-24.14	-18.73
14.55469	9.88	16.17	11.16	26.05	21.04	60.00	50.00	-33.95	-28.96

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Corrected factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

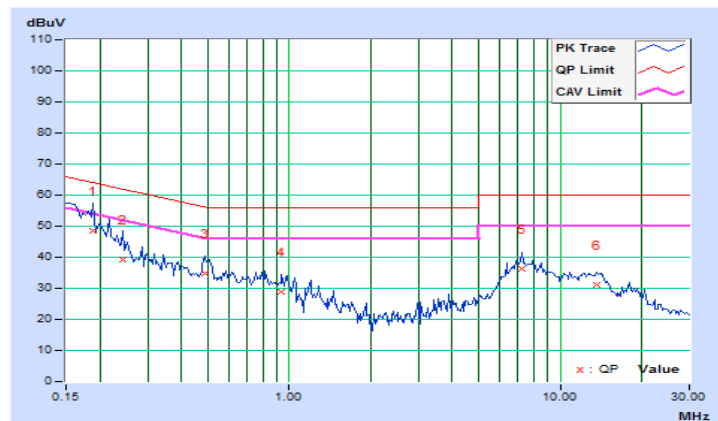


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	A

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.18906	9.67	39.01	24.02	48.68	33.69	64.08	54.08	-15.40	-20.39
0.24375	9.67	29.65	17.52	39.32	27.19	61.97	51.97	-22.65	-24.78
0.48594	9.67	25.15	13.99	34.82	23.66	56.24	46.24	-21.42	-22.58
0.93906	9.65	19.29	12.82	28.94	22.47	56.00	46.00	-27.06	-23.53
7.25781	9.80	26.49	21.72	36.29	31.52	60.00	50.00	-23.71	-18.48
13.61719	9.92	21.32	15.97	31.24	25.89	60.00	50.00	-28.76	-24.11

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

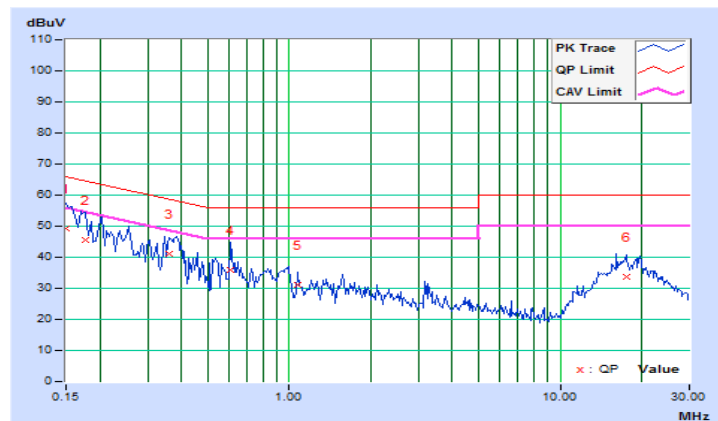


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	B

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	9.67	39.71	25.94	49.38	35.61	66.00	56.00	-16.62	-20.39
0.17734	9.67	35.80	21.05	45.47	30.72	64.61	54.61	-19.14	-23.89
0.36094	9.66	31.62	28.09	41.28	37.75	58.71	48.71	-17.43	-10.96
0.60703	9.66	26.26	26.01	35.92	35.67	56.00	46.00	-20.08	-10.33
1.07813	9.65	21.54	17.39	31.19	27.04	56.00	46.00	-24.81	-18.96
17.64063	9.90	23.62	18.79	33.52	28.69	60.00	50.00	-26.48	-21.31

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

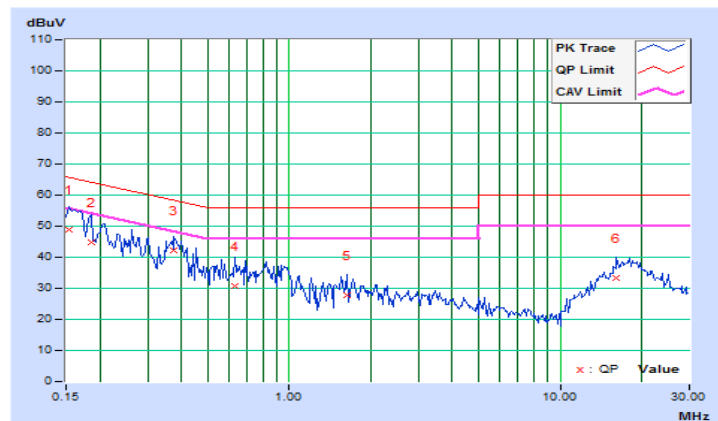


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	B

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15391	9.68	39.36	23.97	49.04	33.65	65.79	55.79	-16.75	-22.14
0.18516	9.67	35.06	20.74	44.73	30.41	64.25	54.25	-19.52	-23.84
0.37656	9.67	32.42	28.48	42.09	38.15	58.35	48.35	-16.26	-10.20
0.63438	9.66	20.95	17.97	30.61	27.63	56.00	46.00	-25.39	-18.37
1.64453	9.67	18.14	12.23	27.81	21.90	56.00	46.00	-28.19	-24.10
16.18359	9.96	23.22	18.77	33.18	28.73	60.00	50.00	-26.82	-21.27

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



5.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

5.8 配置照片

請參閱附件（測試設置照片）。

6 發射(6 dB)頻寬之要求

6.1 適用標準

請見本報告3.1節第5項(I)的規定。

6.2 量測方法

- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 計算由最大輸出功率峰值減6dB的最大頻率範圍。

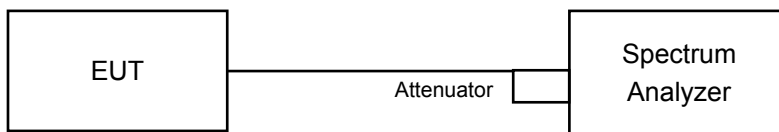
6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6.4 測試配置



6.5 量測結果

操作模式	發射	測試日期	108 年 01 月 03 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	張明逸		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	9.06	8.09	0.5	Pass
6	2437	8.57	8.12	0.5	Pass
11	2462	8.58	8.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.43	16.43	0.5	Pass
6	2437	16.41	16.40	0.5	Pass
11	2462	16.43	16.44	0.5	Pass

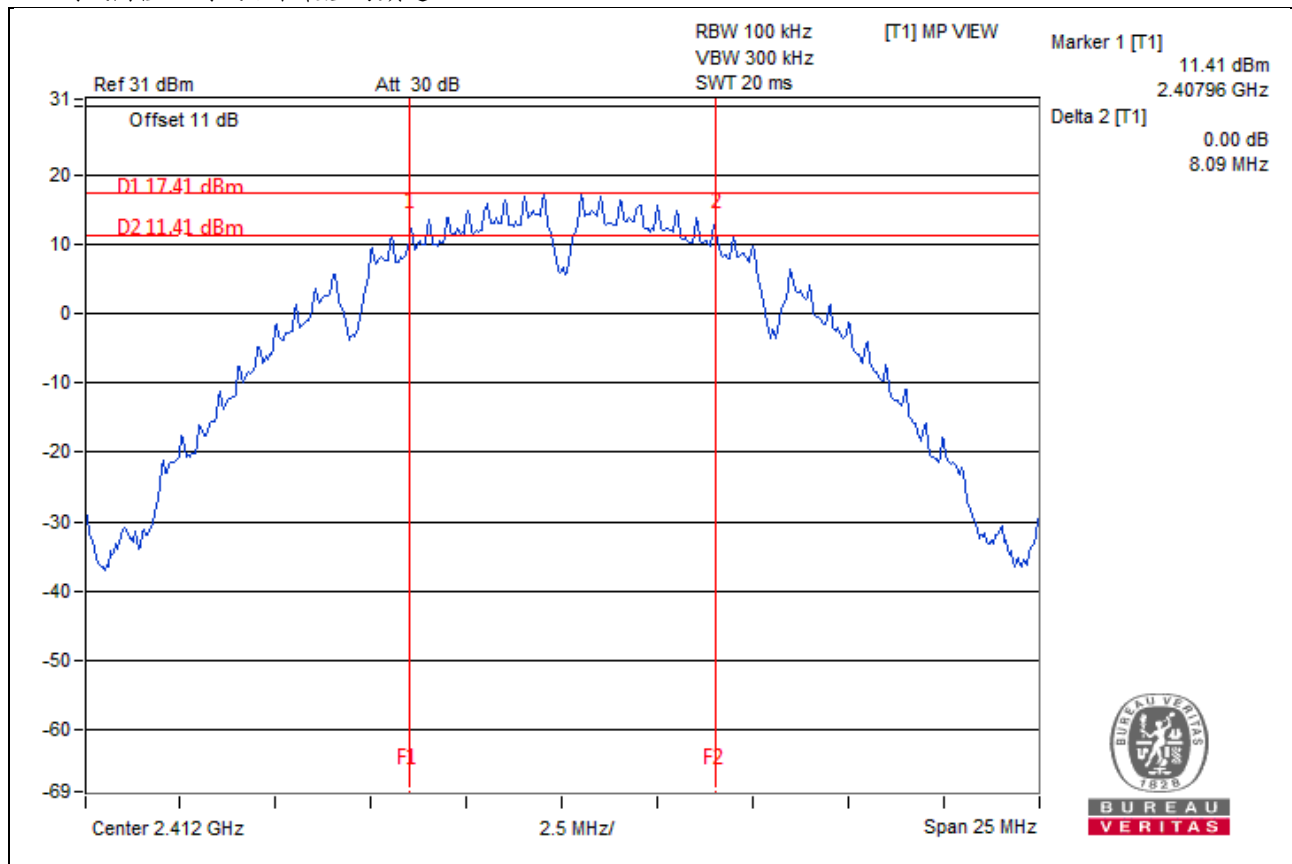
802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.66	17.65	0.5	Pass
6	2437	17.64	17.63	0.5	Pass
11	2462	17.66	17.65	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	36.46	36.47	0.5	Pass
6	2437	36.44	36.44	0.5	Pass
9	2452	36.45	36.44	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



6.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

7 峰值傳導輸出功率之量測

7.1 適用標準

請見本報告3.1節第6項(I)及4項(I)的規定。

7.2 量測方法

- 將待測物輸出經由衰減器接到功率計上 (Average Detector with Gating Function)。
- 設定待測物處於連續發射狀態。
- 計算其輸出功率峰值。

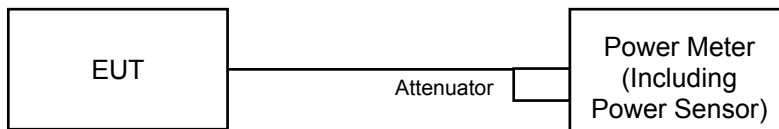
7.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
USB Wideband Power Meter KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 17, 2018	Jul. 16, 2019

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- The measurement uncertainty is 1.393dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- Measurement Bandwidth of U2021XA is 65MHz greater than 6dB bandwidth of emission.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	108 年 01 月 03 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	張明逸		

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	25.57	25.55	719.501	28.57	30.00	Pass
6	2437	25.67	25.48	722.161	28.59	30.00	Pass
11	2462	25.21	25.33	673.087	28.28	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.69	20.59	231.771	23.65	30.00	Pass
6	2437	25.52	25.46	708.011	28.50	30.00	Pass
11	2462	20.53	20.51	225.440	23.53	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.56	20.44	224.425	23.51	30.00	Pass
6	2437	25.60	25.51	718.709	28.57	30.00	Pass
11	2462	20.52	20.42	222.874	23.48	30.00	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	18.06	18.03	127.506	21.06	30.00	Pass
6	2437	23.66	23.45	453.583	26.57	30.00	Pass
9	2452	19.89	19.21	180.867	22.57	30.00	Pass

Beamforming Mode

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.56	20.44	224.425	23.51	30.00	Pass
6	2437	25.60	25.51	718.709	28.57	30.00	Pass
11	2462	20.52	20.42	222.874	23.48	30.00	Pass

Note: Directional gain = 4.27dBi < 6dBi, so the power limit no need to be reduced.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	18.06	18.03	127.506	21.06	30.00	Pass
6	2437	23.66	23.45	453.583	26.57	30.00	Pass
9	2452	19.89	19.21	180.867	22.57	30.00	Pass

Note: Directional gain = 4.27dBi < 6dBi, so the power limit no need to be reduced.

7.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

8 功率頻譜密度之量測

8.1 適用標準

請見本報告3.1節第7項(I)的規定。

8.2 量測方法

- a) 將待測物之天線埠連接至測試儀器。
- b) 設定解析頻寬為 10kHz，視訊頻寬為 30kHz，掃描時間設為自動，直至掃描信號穩定。
- c) 使用峰值功能鍵，並找到最大的峰值準位。

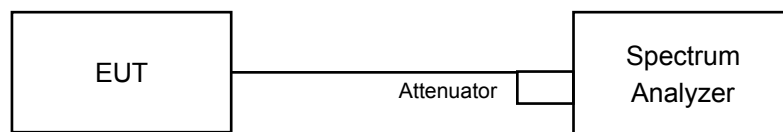
8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 25, 2018	Sep. 24, 2019

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	108 年 01 月 03 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	張明逸		

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-2.91	3.01	0.10	8.00	Pass
	6	2437	-1.94	3.01	1.07	8.00	Pass
	11	2462	-2.38	3.01	0.63	8.00	Pass
1	1	2412	-2.28	3.01	0.73	8.00	Pass
	6	2437	-2.39	3.01	0.62	8.00	Pass
	11	2462	-2.58	3.01	0.43	8.00	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.27dBi < 6dBi, so the power density limit no need to be reduced.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-9.58	3.01	0.23	-6.34	8.00	Pass
	6	2437	-5.18	3.01	0.23	-1.94	8.00	Pass
	11	2462	-9.32	3.01	0.23	-6.08	8.00	Pass
1	1	2412	-9.32	3.01	0.23	-6.08	8.00	Pass
	6	2437	-4.58	3.01	0.23	-1.34	8.00	Pass
	11	2462	-9.60	3.01	0.23	-6.36	8.00	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.27dBi < 6dBi, so the power density limit no need to be reduced.
- Refer to section 2.1 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-10.29	3.01	-7.28	8.00	Pass
	6	2437	-5.71	3.01	-2.70	8.00	Pass
	11	2462	-9.72	3.01	-6.71	8.00	Pass
1	1	2412	-9.96	3.01	-6.95	8.00	Pass
	6	2437	-5.40	3.01	-2.39	8.00	Pass
	11	2462	-9.59	3.01	-6.58	8.00	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4.27dBi < 6dBi, so the power density limit no need to be reduced.

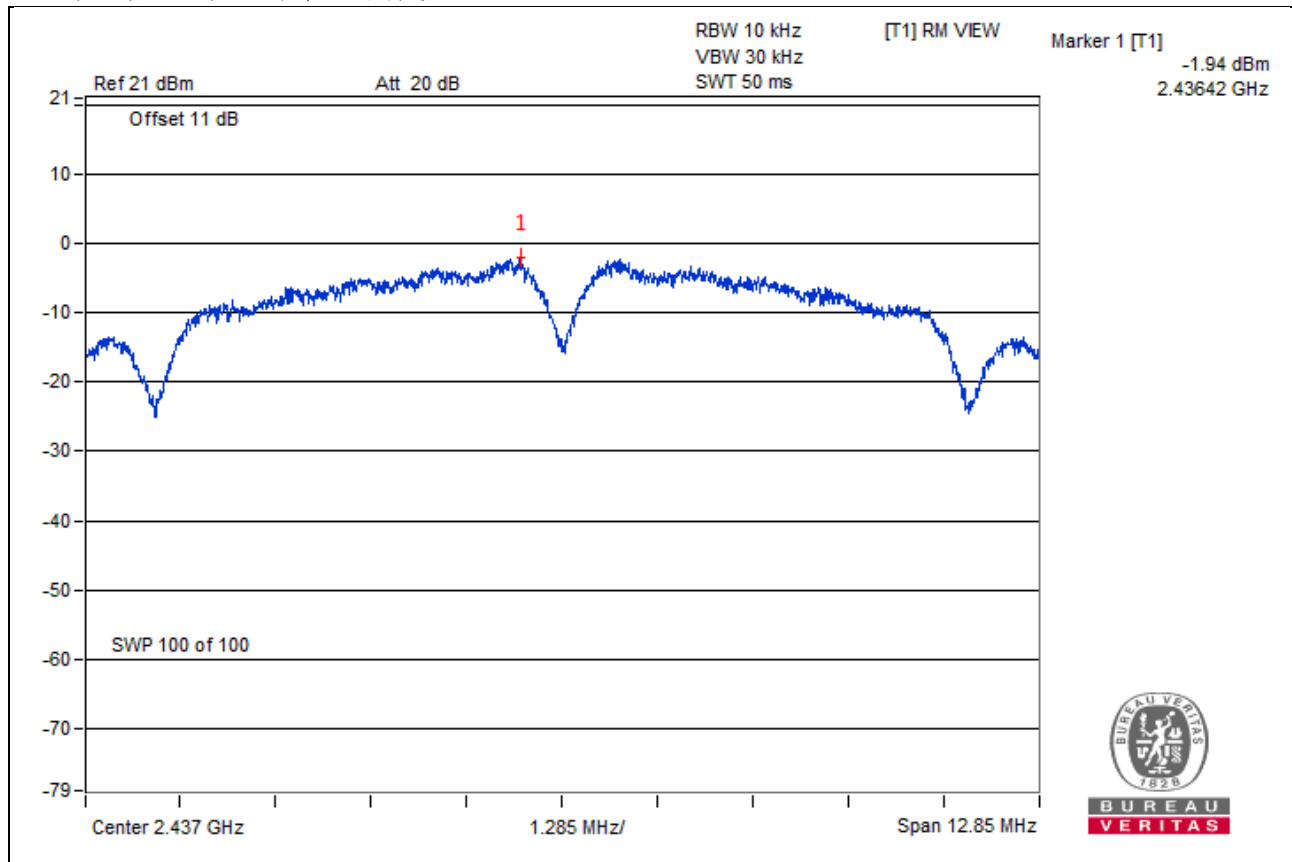
802.11n (HT40)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-17.12	3.01	0.17	-13.94	8.00	Pass
	6	2437	-13.70	3.01	0.17	-10.52	8.00	Pass
	9	2452	-14.53	3.01	0.17	-11.35	8.00	Pass
1	3	2422	-17.14	3.01	0.17	-13.96	8.00	Pass
	6	2437	-14.18	3.01	0.17	-11.00	8.00	Pass
	9	2452	-14.53	3.01	0.17	-11.35	8.00	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4.27dBi < 6dBi, so the power density limit no need to be reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



8.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

U-NII 頻段測試紀錄結果

9 帶外發射之量測

9.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	請見本報告 3.1 節第 2 項(II)的規定
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 2 項(II)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 2 項(II)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 2 項(III)的規定

9.2 量測方法

在電波暗室，將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態。接收天線置於3米距離。桌面要360度旋轉，另外接收天線從離地1米至4米升降變化，以找出最大的輻射電場強度，接收天線分別置於水平、垂直極化各執行測試一次。

Note: 對於 1GHz 以上場強輻射的測試，待測物則置於1.5米高的非金屬桌面。

9.3 量測儀器

同4.3節。

9.4 測試配置

同4.4節。

9.5 場強度之計算

場強之計算公式如下：

結果值Emission level (dBuV/m)=機器讀值 Raw Value (dBuV) +校正因子Correction Factor (dB/m)

餘裕度Margin(dB)= 結果值Emission level (dBuV/m)-限制值Limit value (dBuV/m)

*有效等向輻射功率限制值轉換場強值如下：

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBuV/m)	AV:54 (dBuV/m)
操作頻帶	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	技術規範 4.7.4.1 節	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	技術規範 4.7.4.1 節		
5470~5725 MHz	技術規範 4.7.4.1 節		
5725~5850 MHz	☒ 技術規範 4.7.4.2 節	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8(dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
	☐ 技術規範 4.7.4.7 節	適用 3.10.1.5 節帶外發射限制	
^{*1} beyond 75 MHz or more above of the band edge.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

有效等向輻射功率限制值轉換場強之公式如下：

$$E=(30PG)^{1/2}/d$$

E: 以最寬解析頻寬所測得之最大場強值，單位:V/m。

G: 發射天線相對於全向性輻射器之數值增益。

d: 測試場強的距離，單位: m。

P: 求得之功率，單位:W。

量測結果請見下頁。

9.6 量測結果

9.6.1 發射諧波

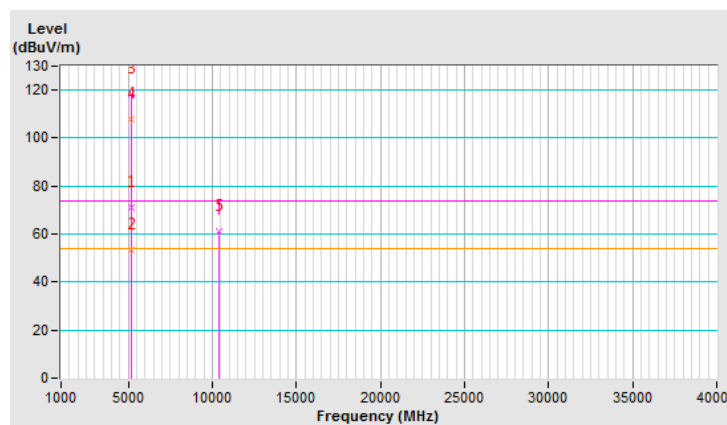
802.11a

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36 : 5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	25°C	量測場地濕度：	70%RH
測試日期：	107 年 12 月 24 日	測試者：	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.1 PK	74.0	-2.9	1.27 H	55	58.5	12.6
2	5150.00	53.7 AV	54.0	-0.3	1.27 H	55	41.1	12.6
3	*5180.00	118.2 PK			1.27 H	55	76.7	41.5
4	*5180.00	107.8 AV			1.27 H	55	66.3	41.5
5	#10360.00	61.0 PK	68.2	-7.2	2.98 H	155	38.5	22.5
	15540.00	-	-	-	-	-	-	-
	20720.00	-	-	-	-	-	-	-
	25900.00	-	-	-	-	-	-	-
	31080.00	-	-	-	-	-	-	-
	36260.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “* “: Fundamental frequency (主頻)
6. “# “: The radiated frequency is out of the restricted band
7. “- “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

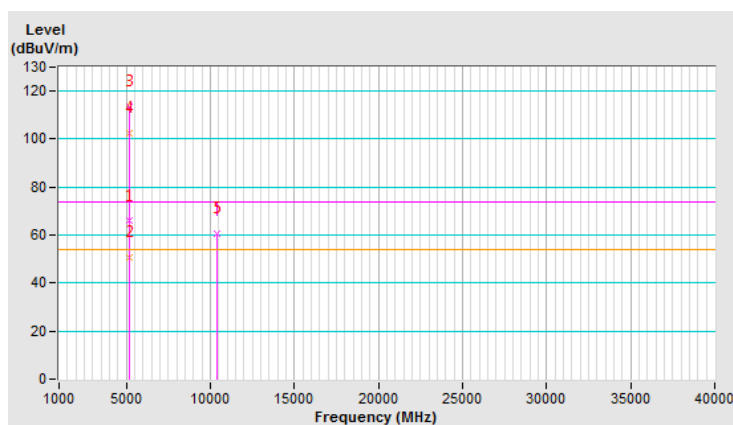


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 36 : 5180 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.01 V	160	53.2	12.6
2	5150.00	50.9 AV	54.0	-3.1	1.01 V	160	38.3	12.6
3	*5180.00	113.2 PK			1.01 V	160	71.7	41.5
4	*5180.00	102.4 AV			1.01 V	160	60.9	41.5
5	#10360.00	60.5 PK	68.2	-7.7	2.62 V	233	38.0	22.5
	15540.00	-	-	-	-	-	-	-
	20720.00	-	-	-	-	-	-	-
	25900.00	-	-	-	-	-	-	-
	31080.00	-	-	-	-	-	-	-
	36260.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

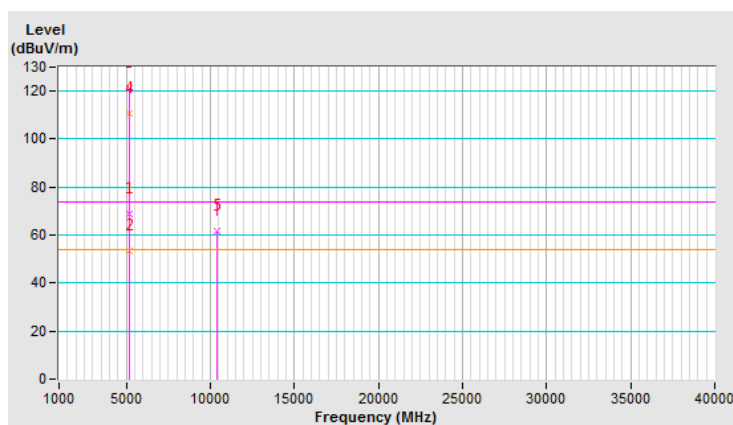


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.7 PK	74.0	-5.3	1.17 H	50	56.1	12.6
2	5150.00	53.5 AV	54.0	-0.5	1.17 H	50	40.9	12.6
3	*5200.00	121.4 PK			1.17 H	50	79.9	41.5
4	*5200.00	110.6 AV			1.17 H	50	69.1	41.5
5	#10400.00	61.8 PK	68.2	-6.4	1.62 H	216	38.9	22.9
	15600.00	-	-	-	-	-	-	-
	20800.00	-	-	-	-	-	-	-
	26000.00	-	-	-	-	-	-	-
	31200.00	-	-	-	-	-	-	-
	36400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

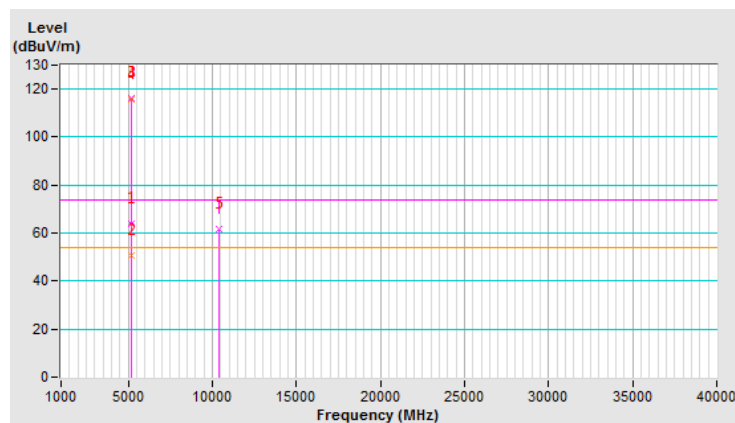


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.8 PK	74.0	-10.2	1.21 V	159	51.2	12.6
2	5150.00	50.5 AV	54.0	-3.5	1.21 V	159	37.9	12.6
3	*5200.00	116.4 PK			1.21 V	159	74.9	41.5
4	*5200.00	115.6 AV			1.21 V	159	74.1	41.5
5	#10400.00	61.5 PK	68.2	-6.7	2.15 V	239	38.6	22.9
	15600.00	-	-	-	-	-	-	-
	20800.00	-	-	-	-	-	-	-
	26000.00	-	-	-	-	-	-	-
	31200.00	-	-	-	-	-	-	-
	36400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

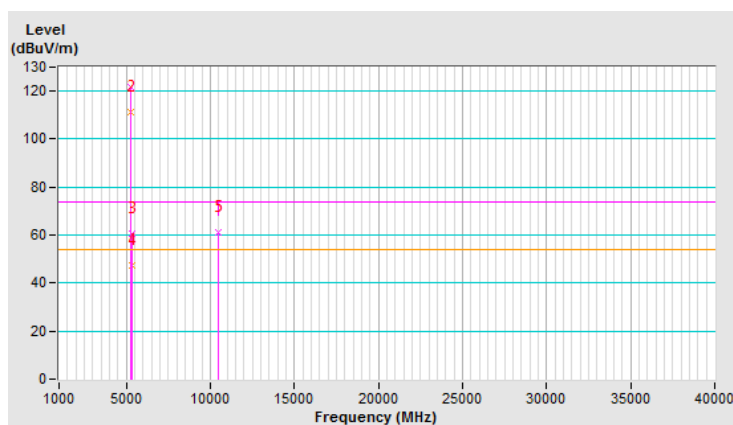


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 48 : 5240 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	121.7 PK			1.22 H	53	80.5	41.2
2	*5240.00	111.0 AV			1.22 H	53	69.8	41.2
3	5350.00	60.6 PK	74.0	-13.4	1.22 H	53	48.2	12.4
4	5350.00	47.4 AV	54.0	-6.6	1.22 H	53	35.0	12.4
5	#10480.00	61.4 PK	68.2	-6.8	1.96 H	285	38.6	22.8
	15720.00	-	-	-	-	-	-	-
	20960.00	-	-	-	-	-	-	-
	26200.00	-	-	-	-	-	-	-
	31440.00	-	-	-	-	-	-	-
	36680.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

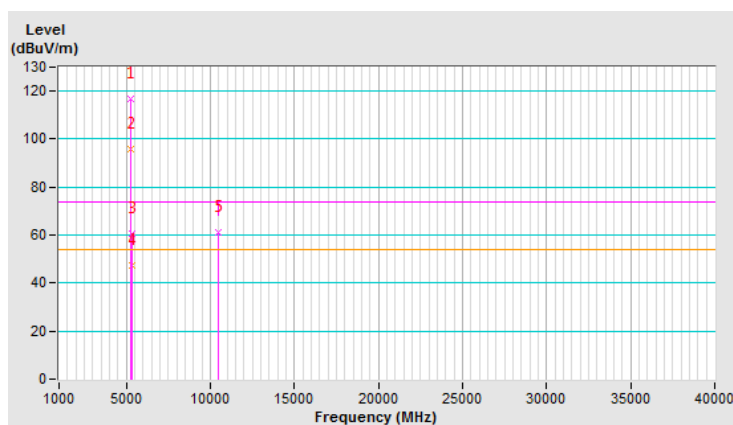


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 48 : 5240 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.7 PK			1.03 V	159	75.5	41.2
2	*5240.00	95.7 AV			1.03 V	159	54.5	41.2
3	5350.00	60.5 PK	74.0	-13.5	1.00 V	176	48.1	12.4
4	5350.00	47.4 AV	54.0	-6.6	1.00 V	176	35.0	12.4
5	#10480.00	60.9 PK	68.2	-7.3	2.33 V	263	38.1	22.8
	15720.00	-	-	-	-	-	-	-
	20960.00	-	-	-	-	-	-	-
	26200.00	-	-	-	-	-	-	-
	31440.00	-	-	-	-	-	-	-
	36680.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

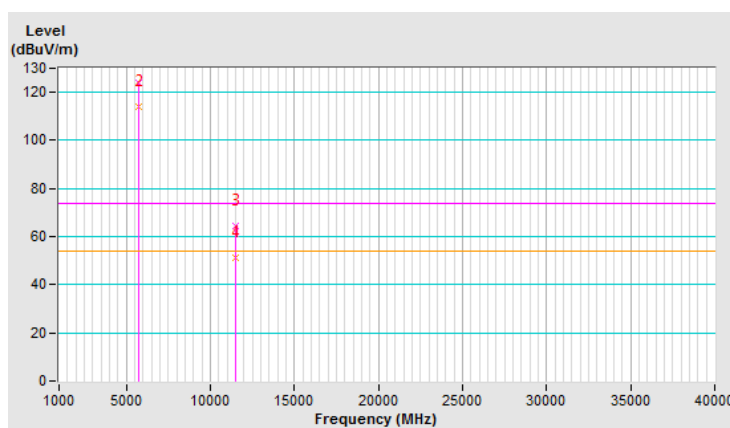


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	124.2 PK			1.16 H	85	81.7	42.5
2	*5745.00	113.8 AV			1.16 H	85	71.3	42.5
3	11490.00	64.4 PK	74.0	-9.6	2.41 H	153	40.3	24.1
4	11490.00	51.2 AV	54.0	-2.8	2.41 H	153	27.1	24.1
	17235.00	-	-	-	-	-	-	-
	22980.00	-	-	-	-	-	-	-
	28725.00	-	-	-	-	-	-	-
	34470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

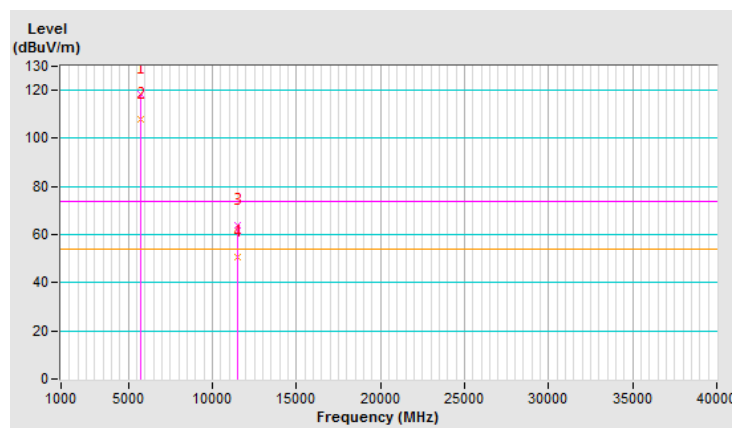


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	118.7 PK			2.44 V	83	76.2	42.5
2	*5745.00	107.8 AV			2.44 V	83	65.3	42.5
3	11490.00	63.8 PK	74.0	-10.2	1.85 V	223	39.7	24.1
4	11490.00	50.6 AV	54.0	-3.4	1.85 V	223	26.5	24.1
	17235.00	-	-	-	-	-	-	-
	22980.00	-	-	-	-	-	-	-
	28725.00	-	-	-	-	-	-	-
	34470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

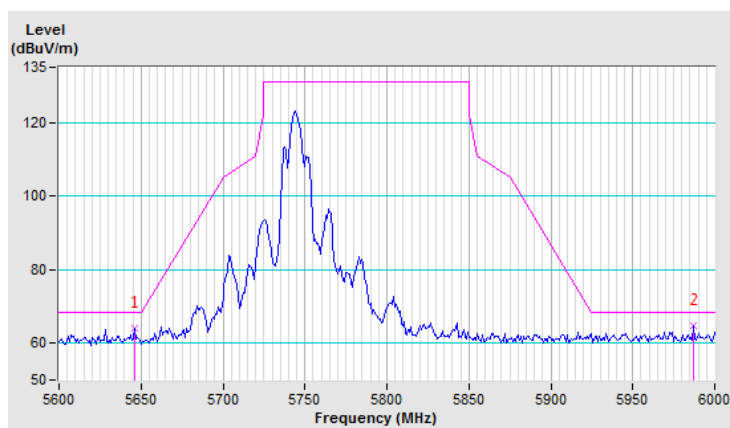


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5646.40	64.0 PK	68.2	-4.2	1.16 H	85	51.4	12.6
2	#5987.20	64.9 PK	68.2	-3.3	1.16 H	85	51.1	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

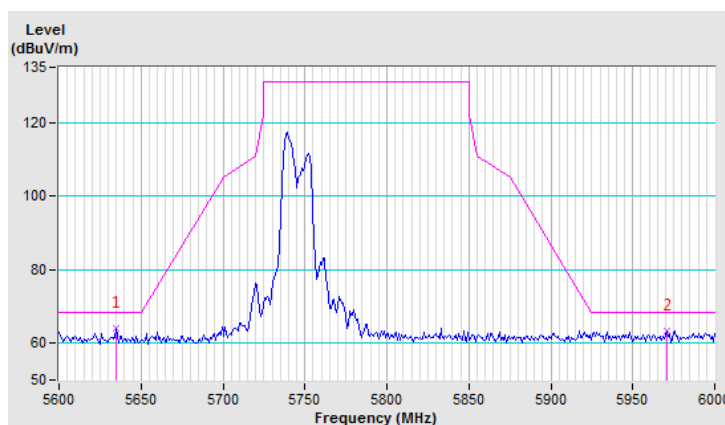


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.20	63.9 PK	68.2	-4.3	2.44 V	83	51.2	12.7
2	#5971.20	63.3 PK	68.2	-4.9	2.44 V	83	49.6	13.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

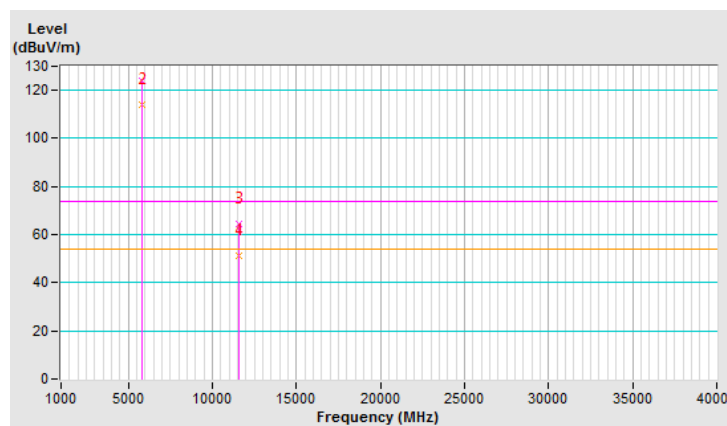


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	124.0 PK			1.48 H	87	81.4	42.6
2	*5785.00	113.8 AV			1.48 H	87	71.2	42.6
3	11570.00	64.5 PK	74.0	-9.5	2.65 H	188	40.5	24.0
4	11570.00	51.3 AV	54.0	-2.7	2.65 H	188	27.3	24.0
	17355.00	-	-	-	-	-	-	-
	23140.00	-	-	-	-	-	-	-
	28925.00	-	-	-	-	-	-	-
	34710.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “* “: Fundamental frequency (主頻)
6. “- “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

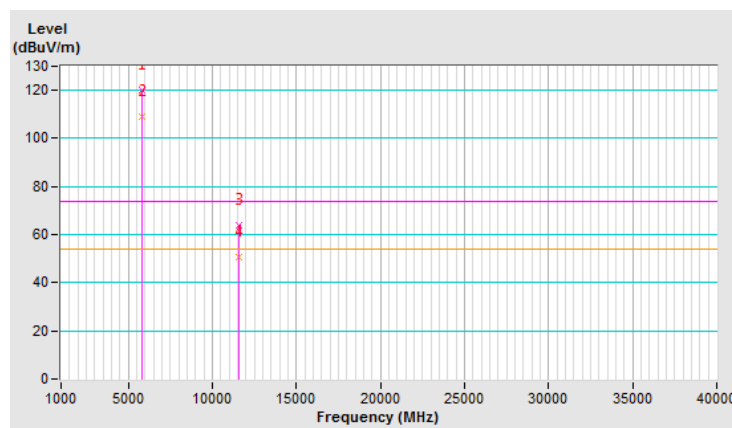


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	119.9 PK			2.47 V	87	77.3	42.6
2	*5785.00	109.0 AV			2.47 V	87	66.4	42.6
3	11570.00	63.9 PK	74.0	-10.1	2.01 V	142	39.9	24.0
4	11570.00	50.8 AV	54.0	-3.2	2.01 V	142	26.8	24.0
	17355.00	-	-	-	-	-	-	-
	23140.00	-	-	-	-	-	-	-
	28925.00	-	-	-	-	-	-	-
	34710.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

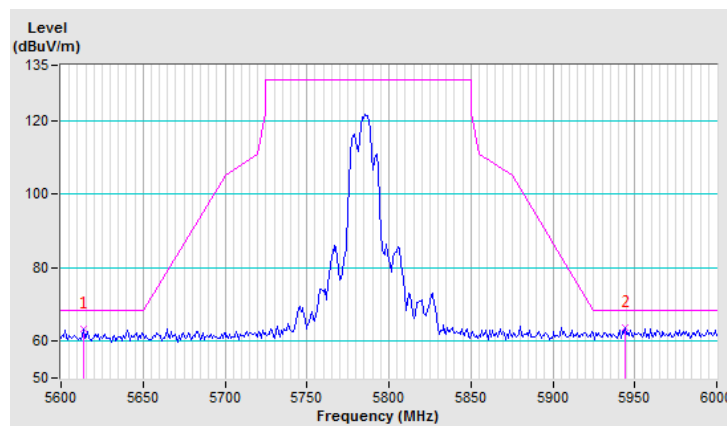


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	63.3 PK	68.2	-4.9	1.48 H	87	50.6	12.7
2	#5944.00	63.7 PK	68.2	-4.5	1.48 H	87	50.1	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ # “: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



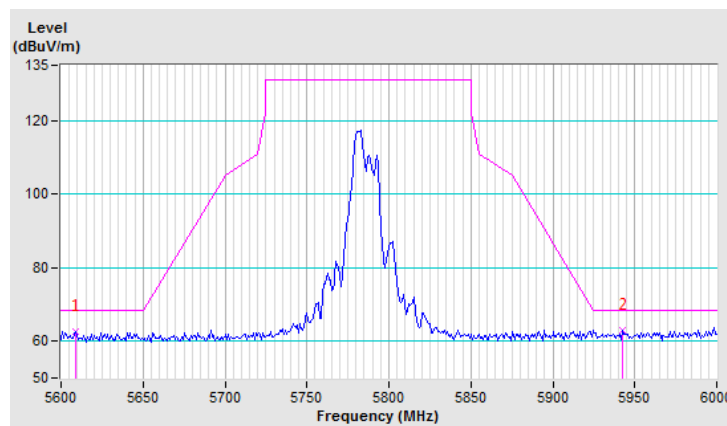
操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.80	62.5 PK	68.2	-5.7	2.47 V	87	49.8	12.7
2	#5942.40	63.1 PK	68.2	-5.1	2.47 V	87	49.5	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

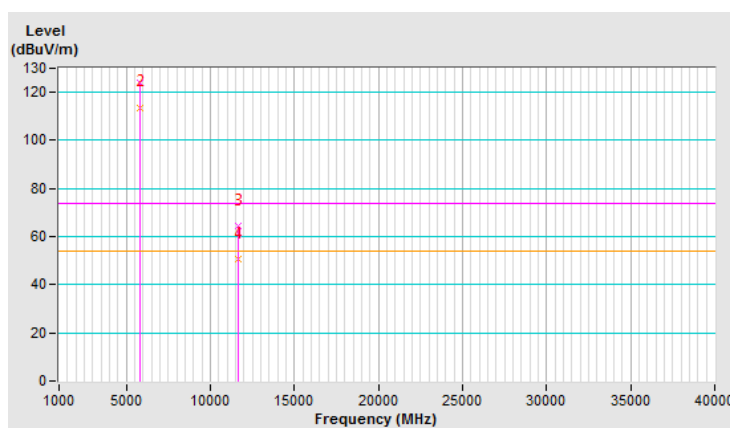


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 165 : 5825 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	123.8 PK			1.33 H	91	81.2	42.6
2	*5825.00	113.8 AV			1.33 H	91	71.2	42.6
3	11650.00	64.3 PK	74.0	-9.7	2.52 H	180	40.7	23.6
4	11650.00	50.8 AV	54.0	-3.2	2.52 H	180	27.2	23.6
	17475.00	-	-	-	-	-	-	-
	23300.00	-	-	-	-	-	-	-
	29125.00	-	-	-	-	-	-	-
	34950.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

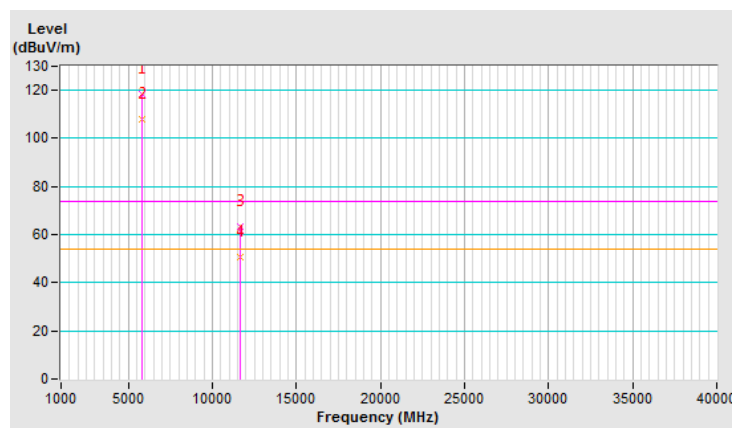


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 165 : 5825 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	118.5 PK			2.47 V	83	75.9	42.6
2	*5825.00	107.9 AV			2.47 V	83	65.3	42.6
3	11650.00	63.3 PK	74.0	-10.7	1.38 V	228	39.7	23.6
4	11650.00	50.5 AV	54.0	-3.5	1.38 V	228	26.9	23.6
	17475.00	-	-	-	-	-	-	-
	23300.00	-	-	-	-	-	-	-
	29125.00	-	-	-	-	-	-	-
	34950.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

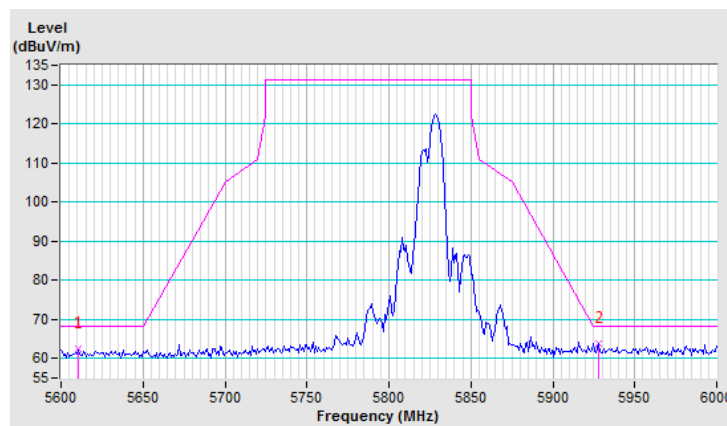


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 165 : 5825 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5610.40	62.3 PK	68.2	-5.9	1.33 H	91	49.6	12.7
2	#5928.00	63.9 PK	68.2	-4.3	1.33 H	91	50.3	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ # “: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



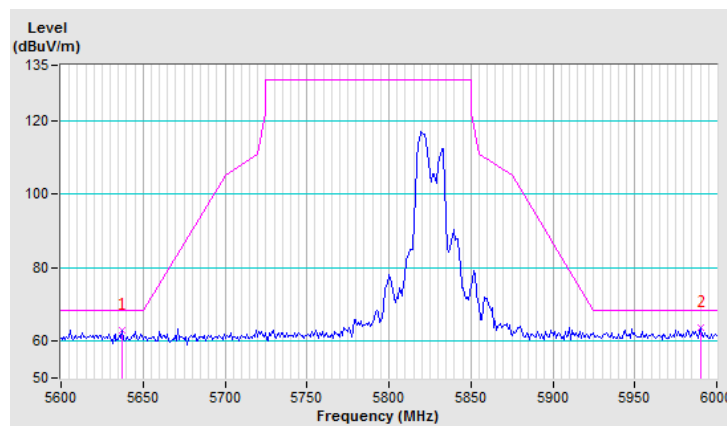
操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 165 : 5825 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.60	63.1 PK	68.2	-5.1	2.47 V	83	50.4	12.7
2	#5990.40	63.7 PK	68.2	-4.5	2.47 V	83	49.9	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



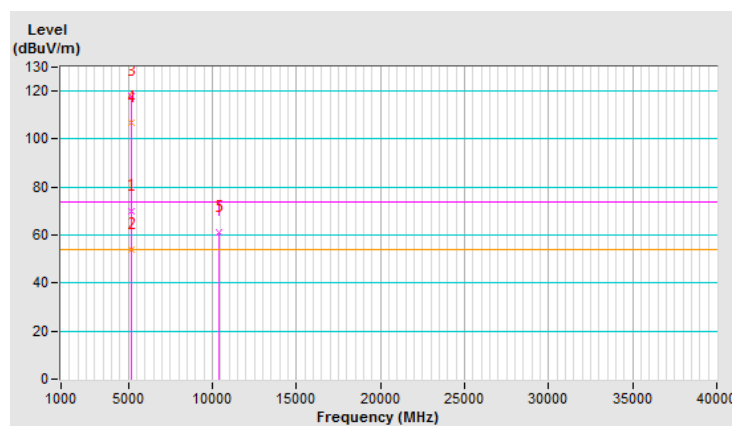
802.11ac (VHT20)

操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 36 : 5180 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.2 PK	74.0	-3.8	1.13 H	59	57.6	12.6
2	5150.00	53.8 AV	54.0	-0.2	1.13 H	59	41.2	12.6
3	*5180.00	117.9 PK			1.13 H	59	76.4	41.5
4	*5180.00	106.9 AV			1.13 H	59	65.4	41.5
5	#10360.00	61.2 PK	68.2	-7.0	1.67 H	210	38.7	22.5
	15540.00	-	-	-	-	-	-	-
	20720.00	-	-	-	-	-	-	-
	25900.00	-	-	-	-	-	-	-
	31080.00	-	-	-	-	-	-	-
	36260.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

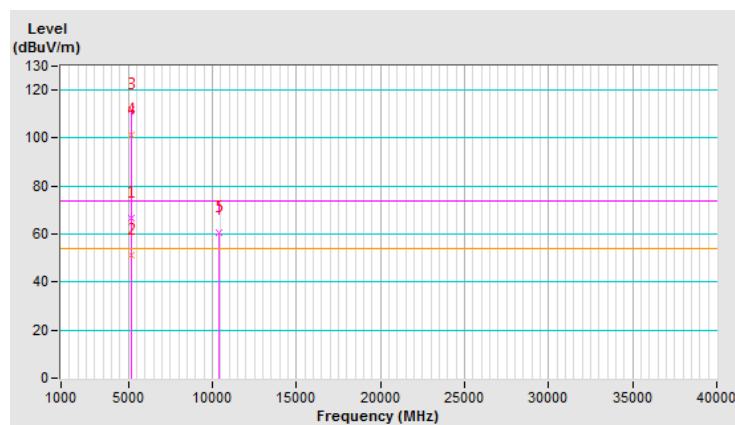


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 36 : 5180 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.8 PK	74.0	-7.2	1.08 V	176	54.2	12.6
2	5150.00	51.1 AV	54.0	-2.9	1.08 V	176	38.5	12.6
3	*5180.00	111.6 PK			1.08 V	176	70.1	41.5
4	*5180.00	101.2 AV			1.08 V	176	59.7	41.5
5	#10360.00	60.7 PK	68.2	-7.5	3.25 V	263	38.2	22.5
	15540.00	-	-	-	-	-	-	-
	20720.00	-	-	-	-	-	-	-
	25900.00	-	-	-	-	-	-	-
	31080.00	-	-	-	-	-	-	-
	36260.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

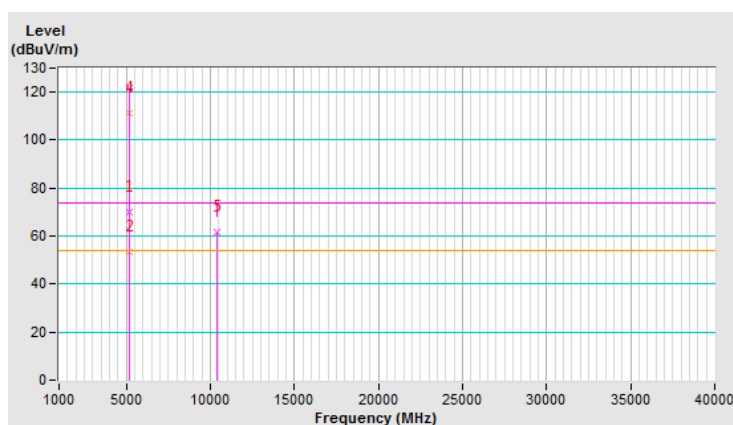


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.8 PK	74.0	-4.2	1.17 H	51	57.2	12.6
2	5150.00	53.6 AV	54.0	-0.4	1.17 H	51	41.0	12.6
3	*5200.00	121.6 PK			1.17 H	51	80.1	41.5
4	*5200.00	111.2 AV			1.17 H	51	69.7	41.5
5	#10400.00	61.6 PK	68.2	-6.6	1.83 H	260	38.7	22.9
	15600.00	-	-	-	-	-	-	-
	20800.00	-	-	-	-	-	-	-
	26000.00	-	-	-	-	-	-	-
	31200.00	-	-	-	-	-	-	-
	36400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

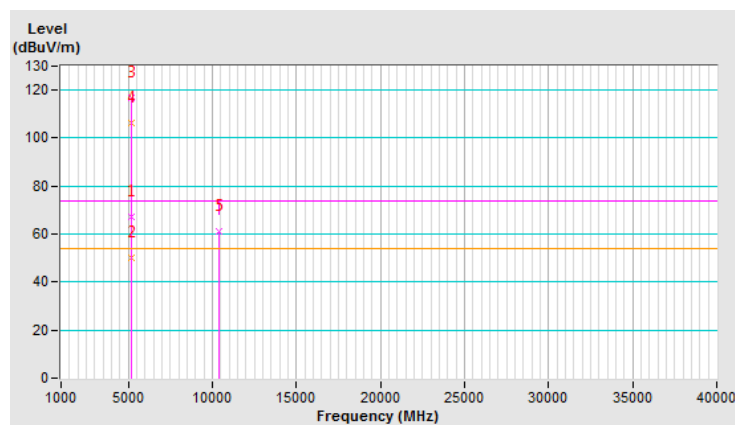


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	1.10 V	169	54.8	12.6
2	5150.00	50.1 AV	54.0	-3.9	1.10 V	169	37.5	12.6
3	*5200.00	116.6 PK			1.10 V	169	75.1	41.5
4	*5200.00	106.2 AV			1.10 V	169	64.7	41.5
5	#10400.00	60.9 PK	68.2	-7.3	2.96 V	287	38.0	22.9
	15600.00	-	-	-	-	-	-	-
	20800.00	-	-	-	-	-	-	-
	26000.00	-	-	-	-	-	-	-
	31200.00	-	-	-	-	-	-	-
	36400.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

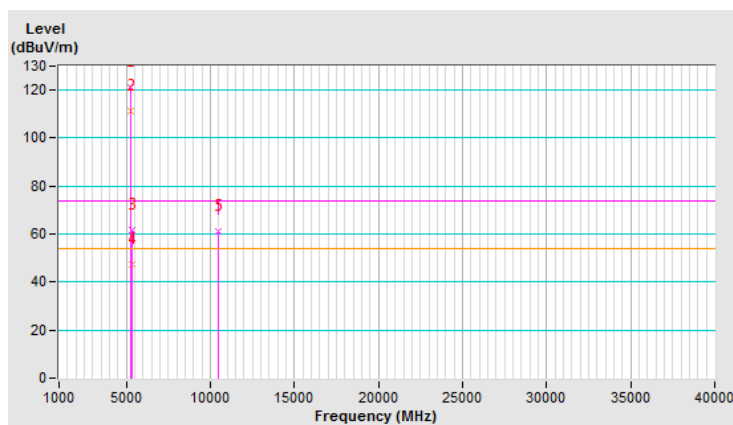


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 48 : 5240 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	121.2 PK			1.02 H	56	80.0	41.2
2	*5240.00	111.0 AV			1.02 H	56	69.8	41.2
3	5350.00	61.9 PK	74.0	-12.1	1.02 H	56	49.5	12.4
4	5350.00	47.6 AV	54.0	-6.4	1.02 H	56	35.2	12.4
5	#10480.00	61.3 PK	68.2	-6.9	1.94 H	271	38.5	22.8
	15720.00	-	-	-	-	-	-	-
	20960.00	-	-	-	-	-	-	-
	26200.00	-	-	-	-	-	-	-
	31440.00	-	-	-	-	-	-	-
	36680.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

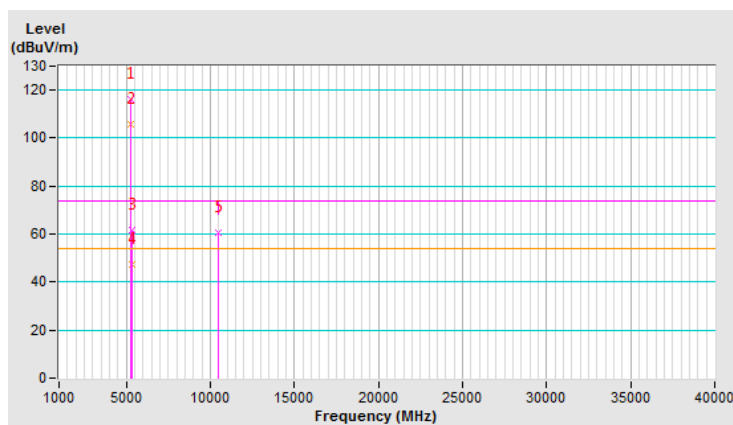


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 48 : 5240 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.2 PK			1.03 V	168	75.0	41.2
2	*5240.00	106.0 AV			1.03 V	168	64.8	41.2
3	5350.00	61.6 PK	74.0	-12.4	1.03 V	168	49.2	12.4
4	5350.00	47.4 AV	54.0	-6.6	1.03 V	168	35.0	12.4
5	#10480.00	60.8 PK	68.2	-7.4	3.33 V	322	38.0	22.8
	15720.00	-	-	-	-	-	-	-
	20960.00	-	-	-	-	-	-	-
	26200.00	-	-	-	-	-	-	-
	31440.00	-	-	-	-	-	-	-
	36680.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

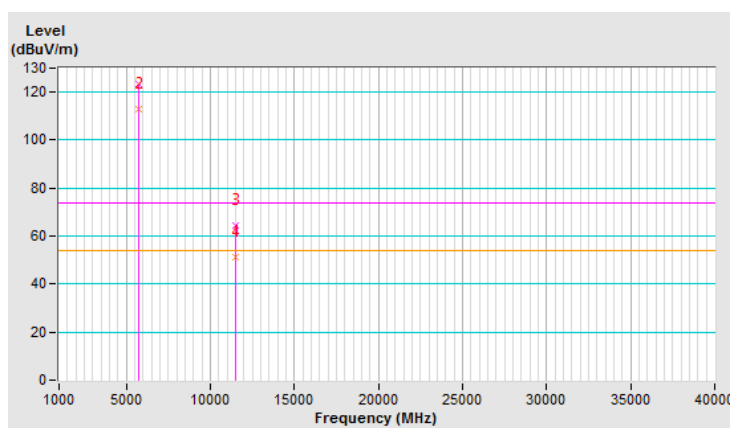


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	123.3 PK			1.17 H	81	80.8	42.5
2	*5745.00	112.8 AV			1.17 H	81	70.3	42.5
3	11490.00	64.6 PK	74.0	-9.4	2.69 H	233	40.5	24.1
4	11490.00	51.4 AV	54.0	-2.6	2.69 H	233	27.3	24.1
	17235.00	-	-	-	-	-	-	-
	22980.00	-	-	-	-	-	-	-
	28725.00	-	-	-	-	-	-	-
	34470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

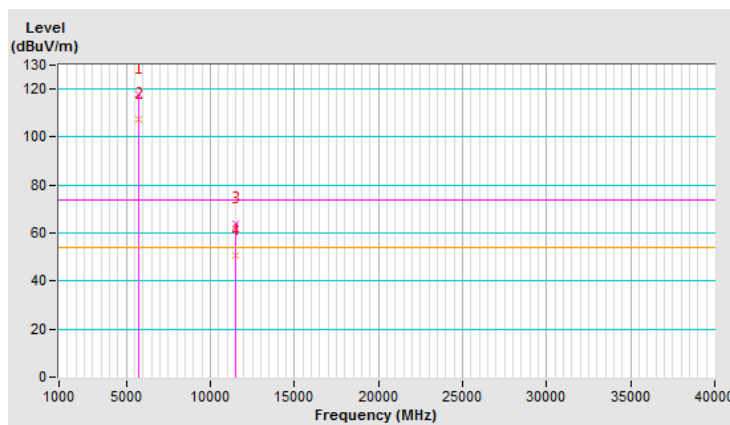


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	118.1 PK			2.59 V	81	75.6	42.5
2	*5745.00	107.4 AV			2.59 V	81	64.9	42.5
3	11490.00	63.8 PK	74.0	-10.2	1.63 V	225	39.7	24.1
4	11490.00	50.9 AV	54.0	-3.1	1.63 V	225	26.8	24.1
	17235.00	-	-	-	-	-	-	-
	22980.00	-	-	-	-	-	-	-
	28725.00	-	-	-	-	-	-	-
	34470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

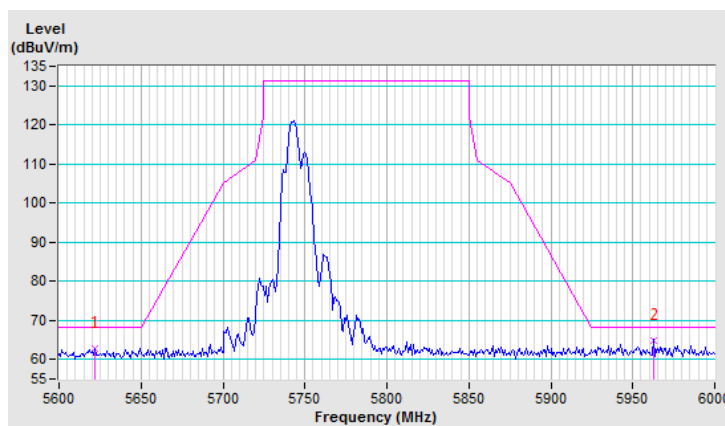


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 149 : 5745 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5621.60	62.8 PK	68.2	-5.4	1.17 H	81	50.1	12.7
2	#5962.40	65.0 PK	68.2	-3.2	1.17 H	81	51.3	13.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

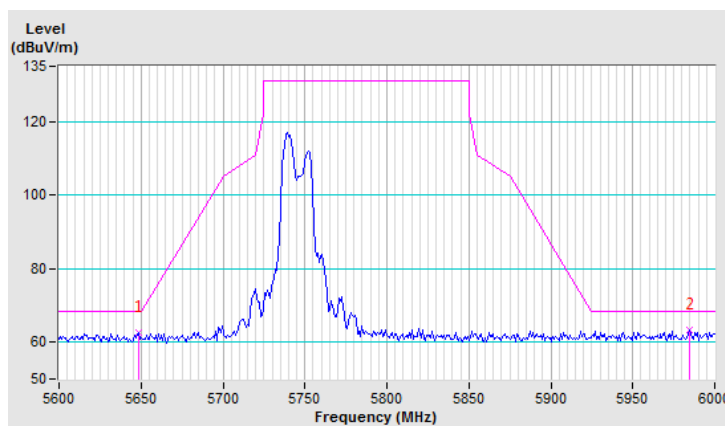


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 149 : 5745 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.80	62.5 PK	68.2	-5.7	2.59 V	81	49.9	12.6
2	#5984.80	63.4 PK	68.2	-4.8	2.59 V	81	49.6	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

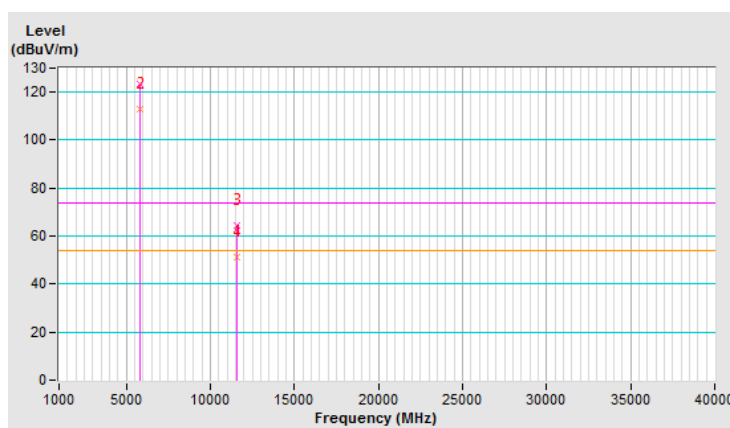


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	123.6 PK			1.41 H	81	81.0	42.6
2	*5785.00	113.1 AV			1.41 H	81	70.5	42.6
3	11570.00	64.4 PK	74.0	-9.6	2.17 H	114	40.4	24.0
4	11570.00	51.1 AV	54.0	-2.9	2.17 H	114	27.1	24.0
	17355.00	-	-	-	-	-	-	-
	23140.00	-	-	-	-	-	-	-
	28925.00	-	-	-	-	-	-	-
	34710.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

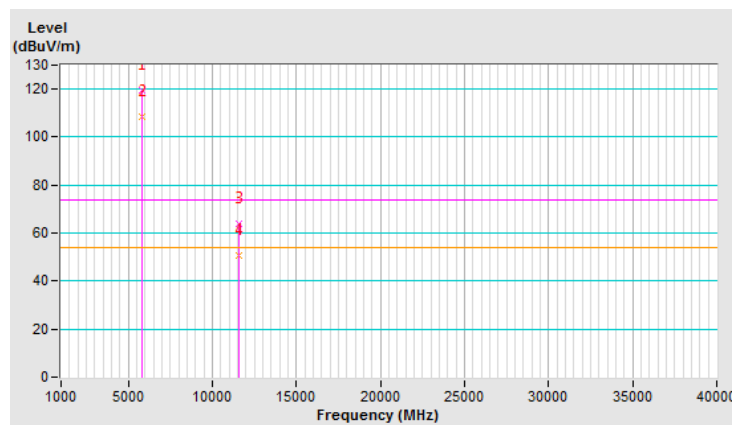


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	119.5 PK			2.60 V	79	76.9	42.6
2	*5785.00	108.5 AV			2.60 V	79	65.9	42.6
3	11570.00	63.9 PK	74.0	-10.1	1.78 V	235	39.9	24.0
4	11570.00	50.8 AV	54.0	-3.2	1.78 V	235	26.8	24.0
	17355.00	-	-	-	-	-	-	-
	23140.00	-	-	-	-	-	-	-
	28925.00	-	-	-	-	-	-	-
	34710.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

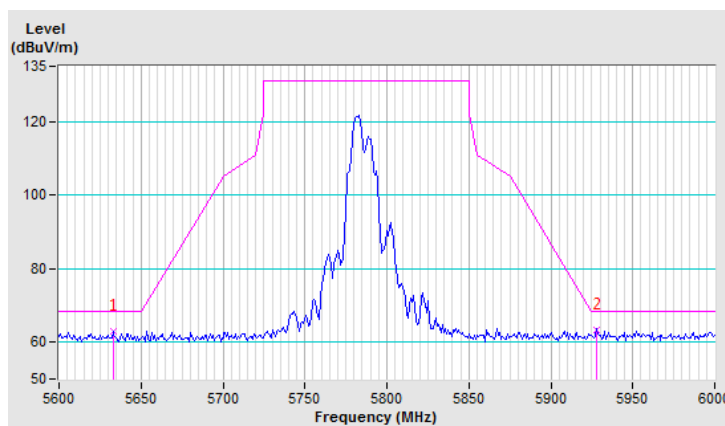


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 157 : 5785 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.80	62.9 PK	68.2	-5.3	1.41 H	81	50.2	12.7
2	#5928.00	63.5 PK	68.2	-4.7	1.41 H	81	49.9	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

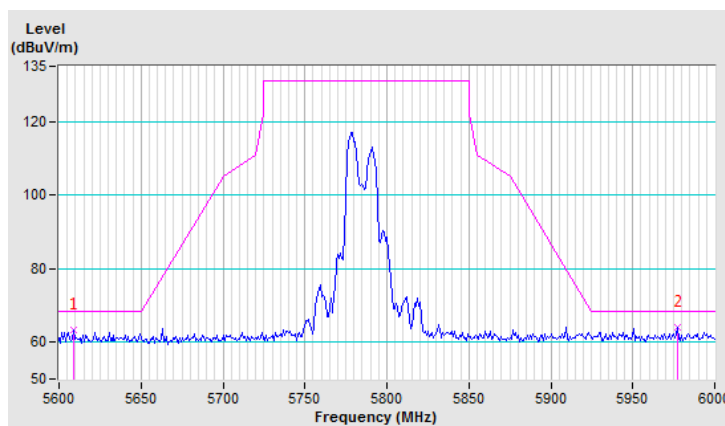


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 157 : 5785 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5608.80	63.4 PK	68.2	-4.8	2.60 V	79	50.7	12.7
2	#5977.60	64.0 PK	68.2	-4.2	2.60 V	79	50.2	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

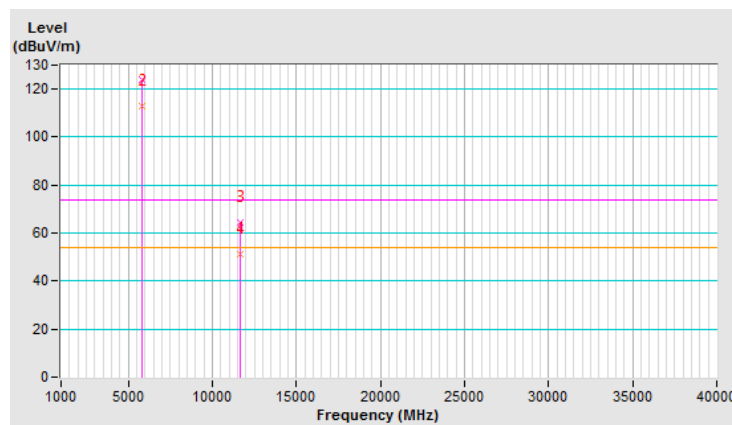


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 165 : 5825 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	123.8 PK			1.41 H	83	81.2	42.6
2	*5825.00	112.8 AV			1.41 H	83	70.2	42.6
3	11650.00	64.3 PK	74.0	-9.7	1.98 H	260	40.7	23.6
4	11650.00	51.0 AV	54.0	-3.0	1.98 H	260	27.4	23.6
	17475.00	-	-	-	-	-	-	-
	23300.00	-	-	-	-	-	-	-
	29125.00	-	-	-	-	-	-	-
	34950.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

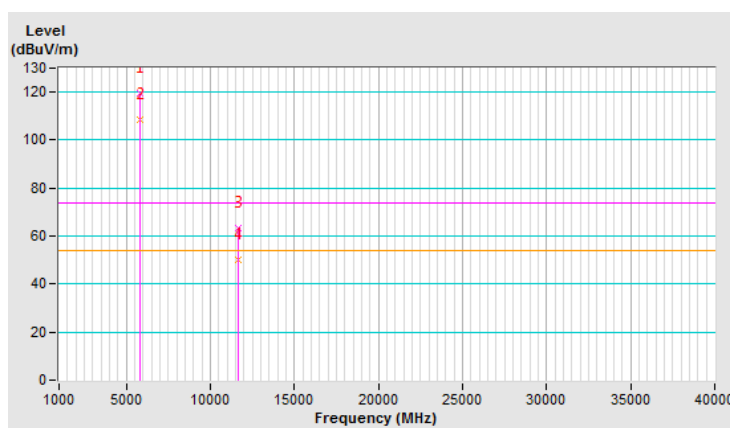


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 165 : 5825 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	119.7 PK			2.60 V	80	77.1	42.6
2	*5825.00	108.5 AV			2.60 V	80	65.9	42.6
3	11650.00	63.2 PK	74.0	-10.8	3.10 V	175	39.6	23.6
4	11650.00	50.3 AV	54.0	-3.7	3.10 V	175	26.7	23.6
	17475.00	-	-	-	-	-	-	-
	23300.00	-	-	-	-	-	-	-
	29125.00	-	-	-	-	-	-	-
	34950.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

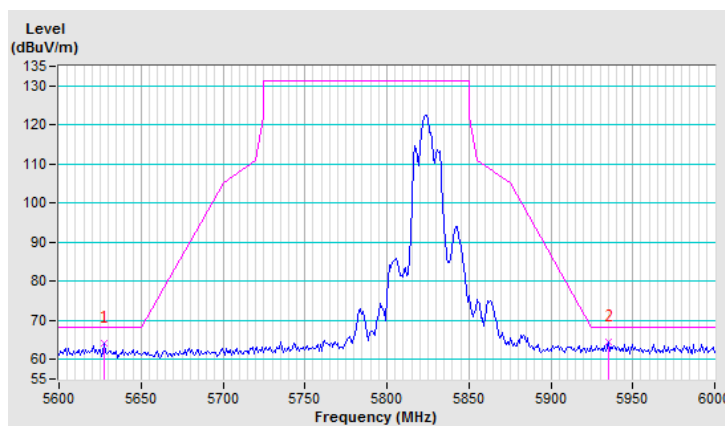


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 165 : 5825 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.20	64.2 PK	68.2	-4.0	1.41 H	83	51.5	12.7
2	#5935.20	64.5 PK	68.2	-3.7	1.41 H	83	50.9	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

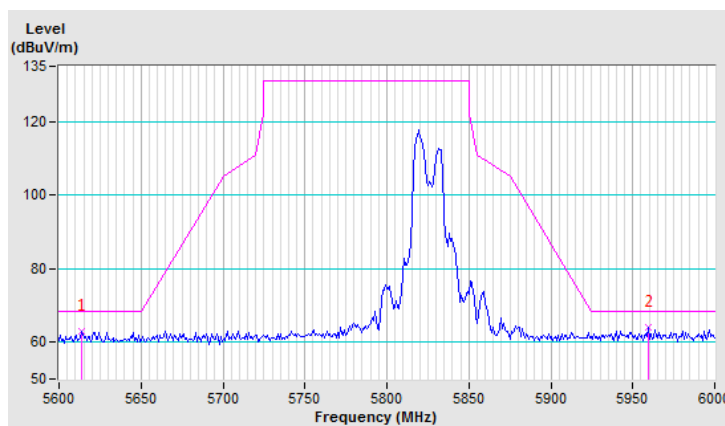


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 165 : 5825 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5613.60	63.0 PK	68.2	-5.2	2.60 V	80	50.3	12.7
2	#5959.20	64.0 PK	68.2	-4.2	2.60 V	80	50.4	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



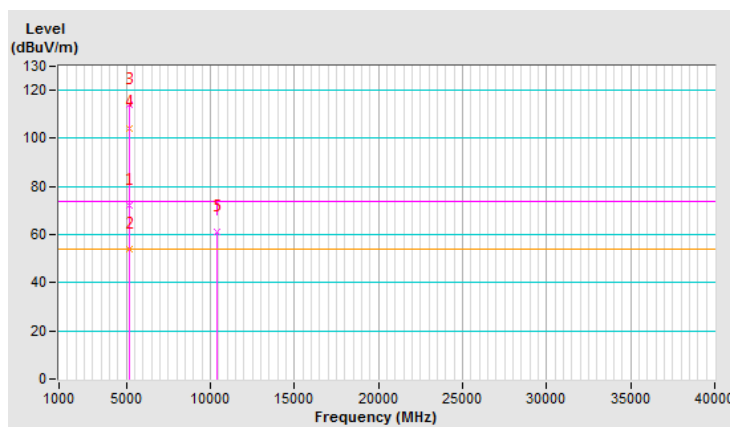
802.11ac (VHT40)

操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 38 : 5190 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	72.1 PK	74.0	-1.9	1.24 H	50	59.5	12.6
2	5145.00	53.9 AV	54.0	-0.1	1.24 H	50	41.3	12.6
3	*5190.00	113.9 PK			1.24 H	50	72.4	41.5
4	*5190.00	104.4 AV			1.24 H	50	62.9	41.5
5	#10380.00	61.2 PK	68.2	-7.0	1.68 H	220	38.5	22.7
	15570.00	-	-	-	-	-	-	-
	20760.00	-	-	-	-	-	-	-
	25950.00	-	-	-	-	-	-	-
	31140.00	-	-	-	-	-	-	-
	36330.00	-	-	-	-	-	-	-
	36330.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

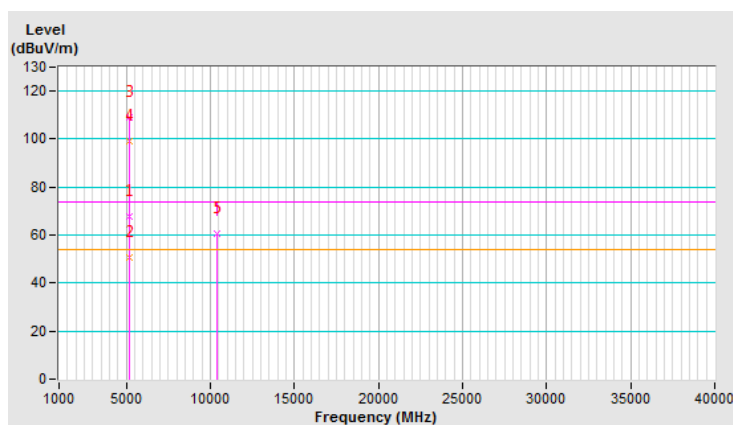


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 38 : 5190 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	67.5 PK	74.0	-6.5	1.10 V	168	54.9	12.6
2	5145.00	50.5 AV	54.0	-3.5	1.10 V	168	37.9	12.6
3	*5190.00	108.9 PK			1.10 V	168	67.4	41.5
4	*5190.00	99.4 AV			1.10 V	168	57.9	41.5
5	#10380.00	60.6 PK	68.2	-7.6	3.15 V	345	37.9	22.7
	15570.00	-	-	-	-	-	-	-
	20760.00	-	-	-	-	-	-	-
	25950.00	-	-	-	-	-	-	-
	31140.00	-	-	-	-	-	-	-
	36330.00	-	-	-	-	-	-	-
	36330.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

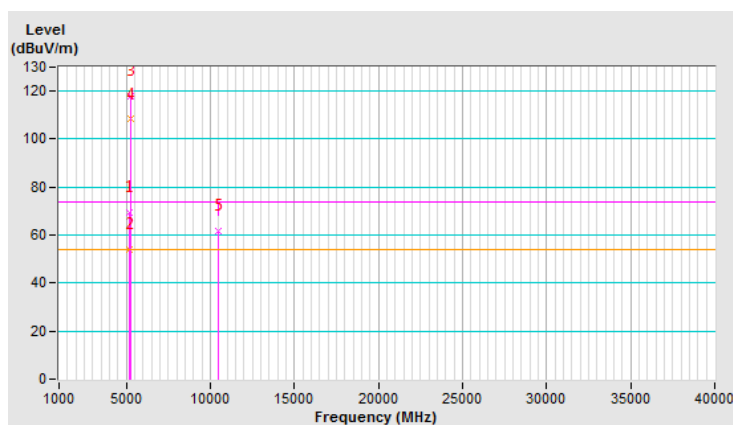


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 46 : 5230 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.3 PK	74.0	-4.7	1.44 H	54	56.7	12.6
2	5150.00	53.8 AV	54.0	-0.2	1.44 H	54	41.2	12.6
3	*5230.00	118.1 PK			1.44 H	54	76.8	41.3
4	*5230.00	108.2 AV			1.44 H	54	66.9	41.3
5	#10460.00	61.5 PK	68.2	-6.7	1.96 H	204	38.6	22.9
	15690.00	-	-	-	-	-	-	-
	20920.00	-	-	-	-	-	-	-
	26150.00	-	-	-	-	-	-	-
	31380.00	-	-	-	-	-	-	-
	36610.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

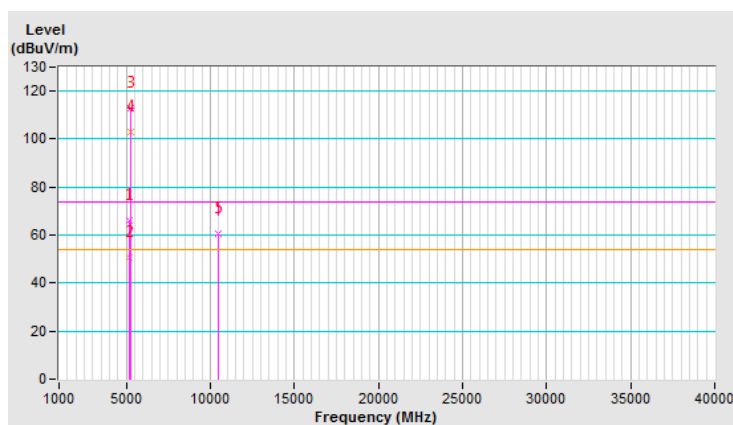


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 46 : 5230 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.3 PK	74.0	-7.7	1.09 V	169	53.7	12.6
2	5150.00	50.8 AV	54.0	-3.2	1.09 V	169	38.2	12.6
3	*5230.00	113.1 PK			1.09 V	169	71.8	41.3
4	*5230.00	103.2 AV			1.09 V	169	61.9	41.3
5	#10460.00	60.8 PK	68.2	-7.4	2.96 V	274	37.9	22.9
	15690.00	-	-	-	-	-	-	-
	20920.00	-	-	-	-	-	-	-
	26150.00	-	-	-	-	-	-	-
	31380.00	-	-	-	-	-	-	-
	36610.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

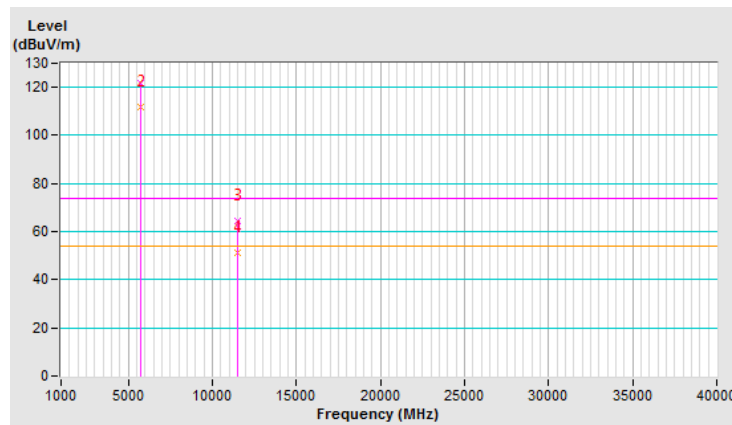


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 151 : 5755 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	121.9 PK			1.30 H	83	79.4	42.5
2	*5755.00	111.7 AV			1.30 H	83	69.2	42.5
3	11510.00	64.2 PK	74.0	-9.8	2.38 H	177	40.3	23.9
4	11510.00	51.1 AV	54.0	-2.9	2.38 H	177	27.2	23.9
	17265.00	-	-	-	-	-	-	-
	23020.00	-	-	-	-	-	-	-
	28775.00	-	-	-	-	-	-	-
	34530.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

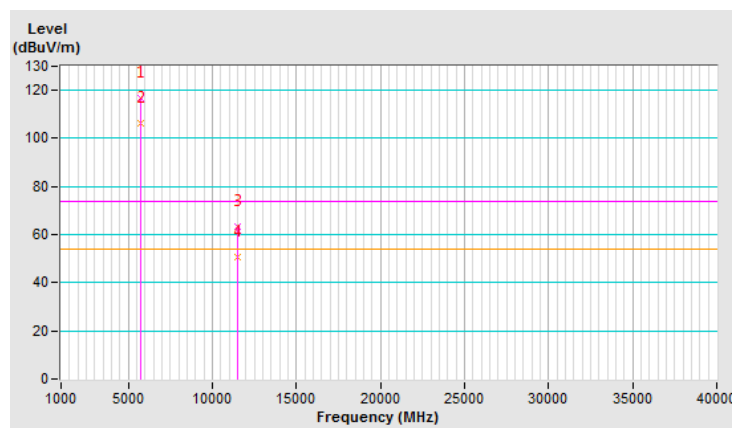


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 151 : 5755 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	116.6 PK			2.64 V	85	74.1	42.5
2	*5755.00	106.4 AV			2.64 V	85	63.9	42.5
3	11510.00	63.6 PK	74.0	-10.4	1.63 V	220	39.7	23.9
4	11510.00	50.5 AV	54.0	-3.5	1.63 V	220	26.6	23.9
	17265.00	-	-	-	-	-	-	-
	23020.00	-	-	-	-	-	-	-
	28775.00	-	-	-	-	-	-	-
	34530.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



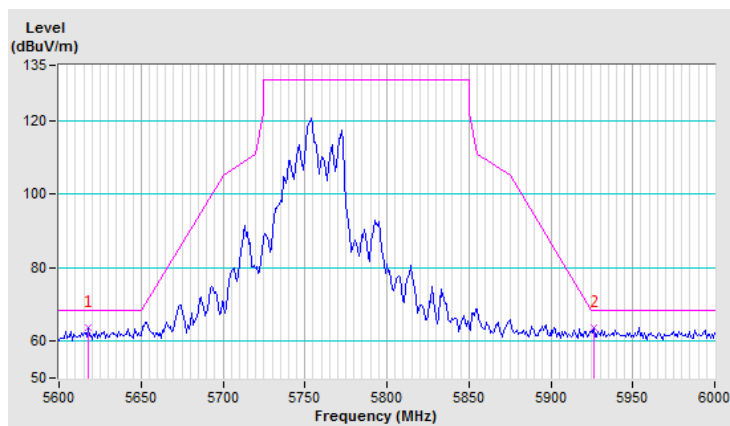
操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 151 : 5755 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5617.60	63.6 PK	68.2	-4.6	1.30 H	83	50.9	12.7
2	#5926.40	63.8 PK	68.2	-4.4	1.30 H	83	50.2	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ # “: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

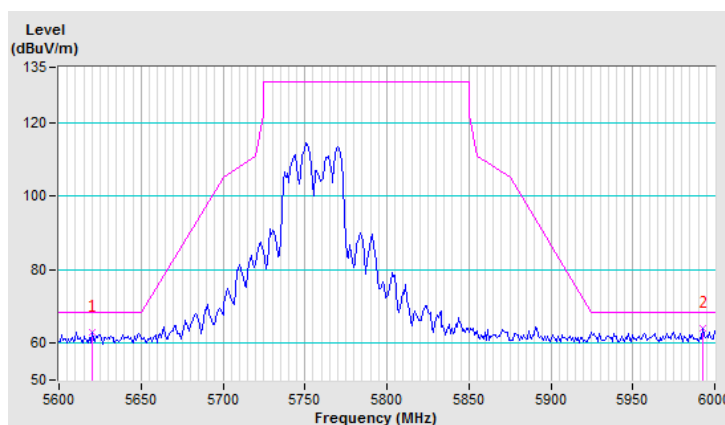


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 151 : 5755 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5620.00	63.1 PK	68.2	-5.1	2.64 V	85	50.4	12.7
2	#5992.80	63.9 PK	68.2	-4.3	2.64 V	85	50.1	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

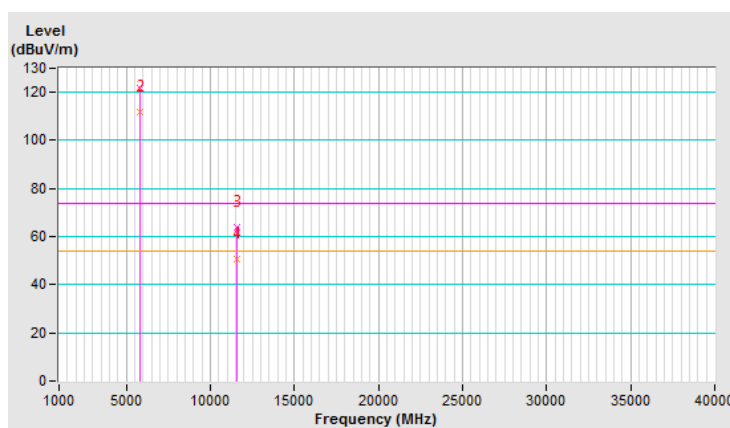


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 159 : 5795 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	121.6 PK			1.25 H	83	79.0	42.6
2	*5795.00	111.8 AV			1.25 H	83	69.2	42.6
3	11590.00	64.0 PK	74.0	-10.0	2.26 H	159	40.2	23.8
4	11590.00	50.7 AV	54.0	-3.3	2.26 H	159	26.9	23.8
	17385.00	-	-	-	-	-	-	-
	23180.00	-	-	-	-	-	-	-
	28975.00	-	-	-	-	-	-	-
	34770.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “* “: Fundamental frequency (主頻)
6. “- “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

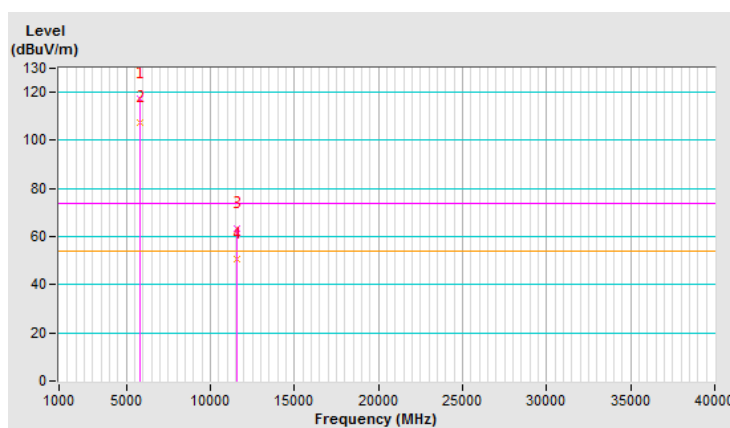


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 159 : 5795 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	117.2 PK			2.50 V	79	74.6	42.6
2	*5795.00	107.2 AV			2.50 V	79	64.6	42.6
3	11590.00	63.5 PK	74.0	-10.5	1.86 V	303	39.7	23.8
4	11590.00	50.7 AV	54.0	-3.3	1.86 V	303	26.9	23.8
	17385.00	-	-	-	-	-	-	-
	23180.00	-	-	-	-	-	-	-
	28975.00	-	-	-	-	-	-	-
	34770.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “* “: Fundamental frequency (主頻)
6. “- “: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

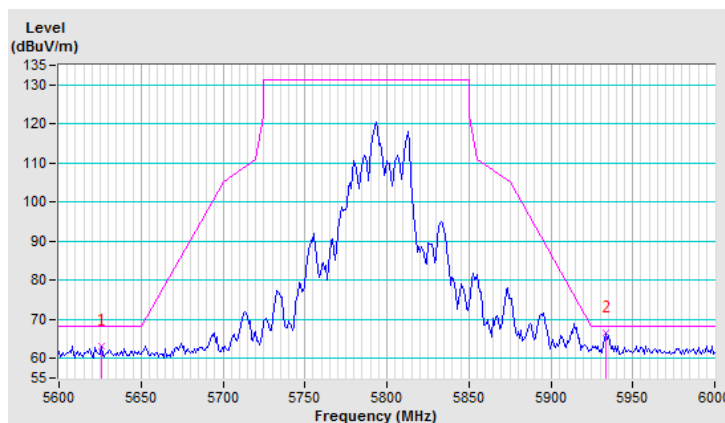


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 159 : 5795 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.60	63.3 PK	68.2	-4.9	1.25 H	83	50.6	12.7
2	#5933.60	66.6 PK	68.2	-1.6	1.25 H	83	53.0	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ # “: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

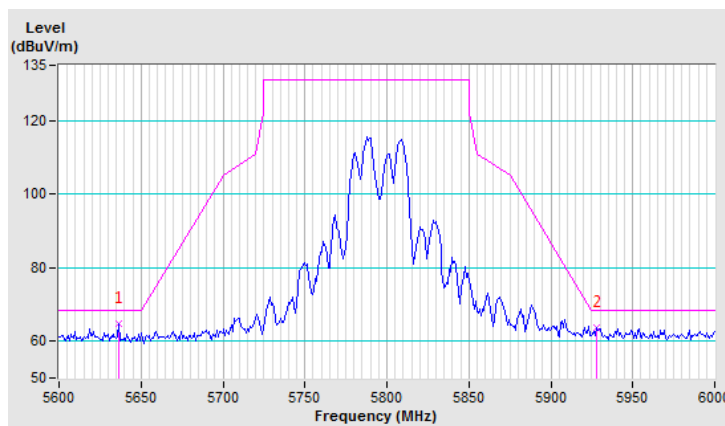


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 159 : 5795 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.80	64.7 PK	68.2	-3.5	2.50 V	79	52.0	12.7
2	#5928.00	63.8 PK	68.2	-4.4	2.50 V	79	50.2	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



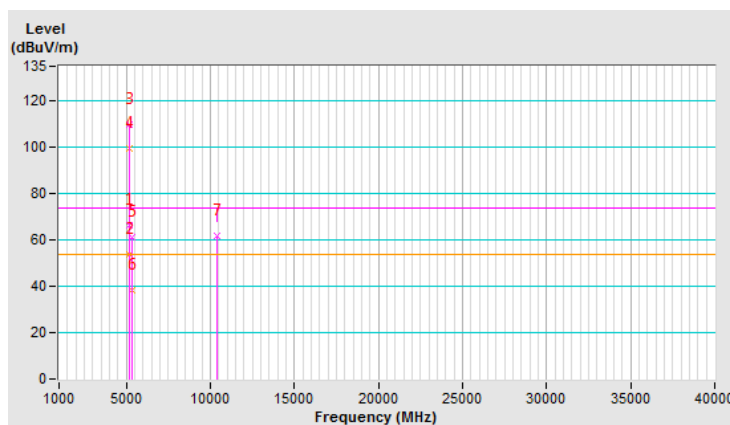
802.11ac (VHT80)

操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 42 : 5210 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 7 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.5 PK	74.0	-7.5	1.45 H	55	53.9	12.6
2	5150.00	53.9 AV	54.0	-0.1	1.45 H	55	41.3	12.6
3	*5210.00	109.7 PK			1.45 H	55	68.3	41.4
4	*5210.00	99.5 AV			1.45 H	55	58.1	41.4
5	5350.00	61.3 PK	74.0	-12.7	1.45 H	55	48.9	12.4
6	5350.00	38.5 AV	54.0	-15.5	1.45 H	55	26.1	12.4
7	#10420.00	61.7 PK	68.2	-6.5	2.66 H	174	38.9	22.8
	15630.00	-	-	-	-	-	-	-
	20840.00	-	-	-	-	-	-	-
	26050.00	-	-	-	-	-	-	-
	31260.00	-	-	-	-	-	-	-
	36470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

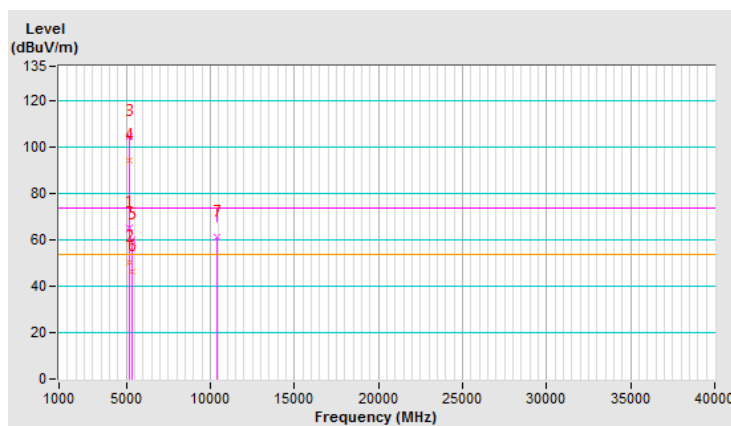


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 42 : 5210 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	108 年 01 月 7 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	1.10 V	168	52.7	12.6
2	5150.00	50.4 AV	54.0	-3.6	1.10 V	168	37.8	12.6
3	*5210.00	104.5 PK			1.10 V	168	63.1	41.4
4	*5210.00	94.5 AV			1.10 V	168	53.1	41.4
5	5350.00	60.2 PK	74.0	-13.8	1.10 V	168	47.8	12.4
6	5350.00	46.6 AV	54.0	-7.4	1.10 V	168	34.2	12.4
7	#10420.00	61.0 PK	68.2	-7.2	2.96 V	275	38.2	22.8
	15630.00	-	-	-	-	-	-	-
	20840.00	-	-	-	-	-	-	-
	26050.00	-	-	-	-	-	-	-
	31260.00	-	-	-	-	-	-	-
	36470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

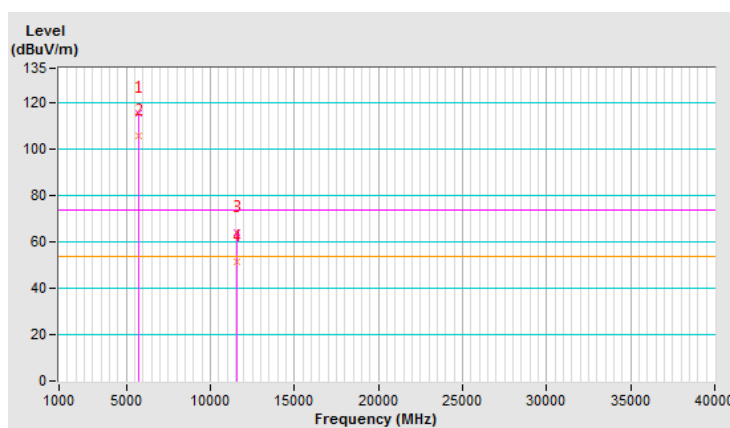


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 155 : 5775 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 7 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5775.00	115.7 PK			1.00 H	346	73.1	42.6
2	*5775.00	106.1 AV			1.00 H	346	63.5	42.6
3	11550.00	64.3 PK	74.0	-9.7	1.96 H	241	40.4	23.9
4	11550.00	51.2 AV	54.0	-2.8	1.96 H	241	27.3	23.9
	17325.00	-	-	-	-	-	-	-
	23100.00	-	-	-	-	-	-	-
	28875.00	-	-	-	-	-	-	-
	34650.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

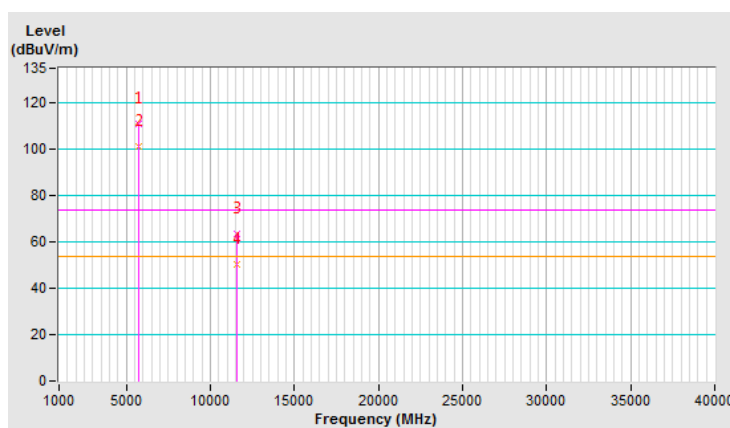


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 155 : 5775 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 7 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5775.00	111.1 PK			2.36 V	108	68.5	42.6
2	*5775.00	101.2 AV			2.36 V	108	58.6	42.6
3	11550.00	63.7 PK	74.0	-10.3	1.55 V	136	39.8	23.9
4	11550.00	50.6 AV	54.0	-3.4	1.55 V	136	26.7	23.9
	17325.00	-	-	-	-	-	-	-
	23100.00	-	-	-	-	-	-	-
	28875.00	-	-	-	-	-	-	-
	34650.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

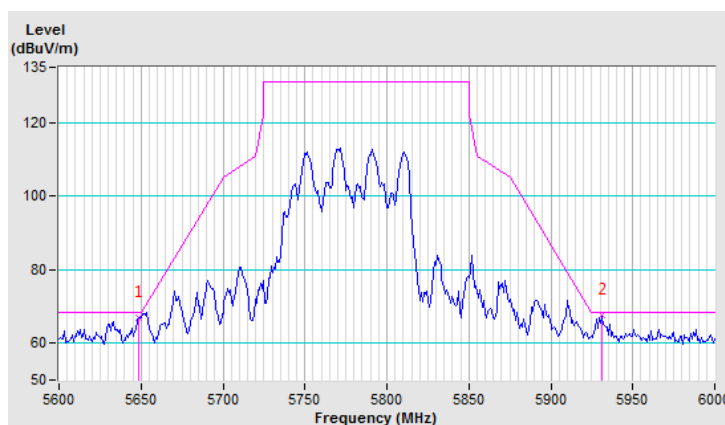


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 155 : 5775 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	68%RH
測 試 日 期 :	108 年 01 月 7 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5648.80	67.0 PK	68.2	-1.2	1.00 H	346	54.4	12.6
2	#5931.20	67.7 PK	68.2	-0.5	1.00 H	346	54.1	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ # “: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



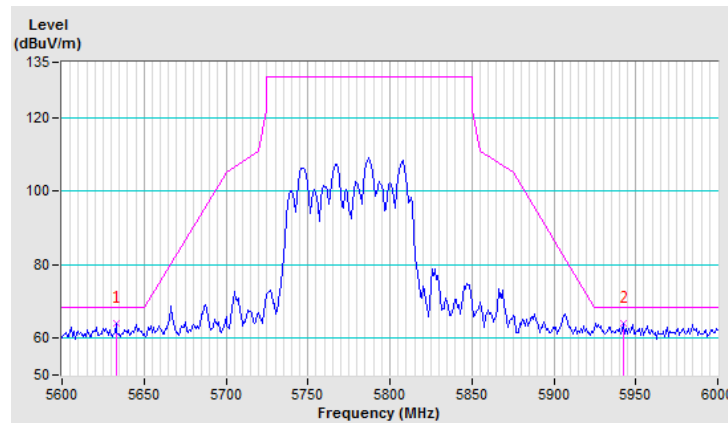
操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 155 : 5775 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 7 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.80	64.0 PK	68.2	-4.2	2.36 V	108	51.3	12.7
2	#5942.40	64.0 PK	68.2	-4.2	2.36 V	108	50.4	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



9.6.2 接收諧波

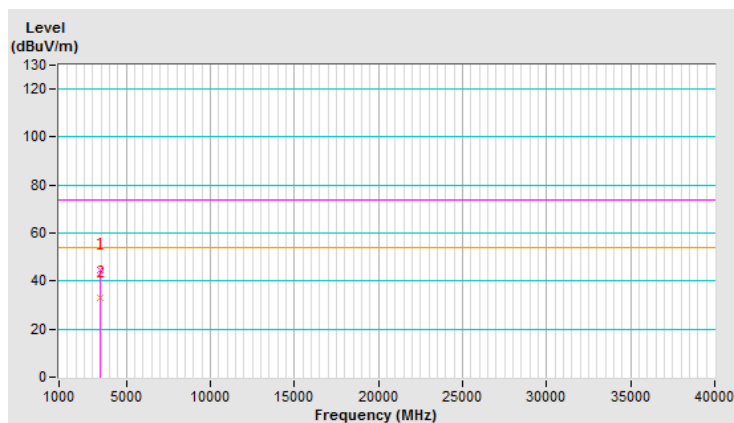
802.11a

操 作 模 式 :	接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3467.00	44.6 PK	74.0	-29.4	1.56 H	122	38.2	6.4
2	3467.00	33.2 AV	54.0	-20.8	1.56 H	122	26.8	6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value

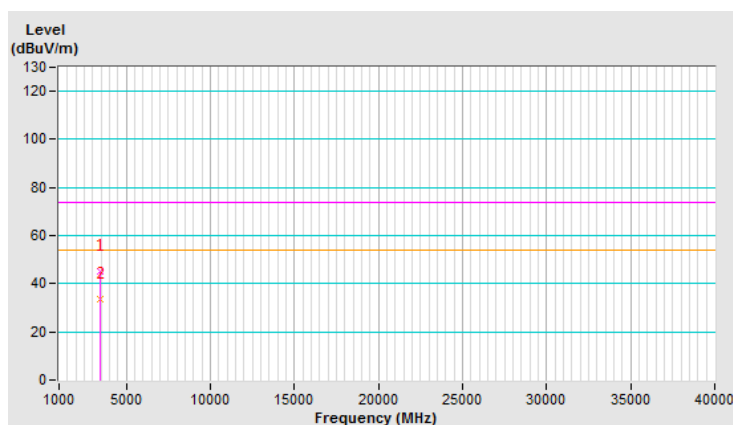


操 作 模 式 :	接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3467.00	45.0 PK	74.0	-29.0	2.69 V	22	38.6	6.4
2	3467.00	33.4 AV	54.0	-20.6	2.69 V	22	27.0	6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value

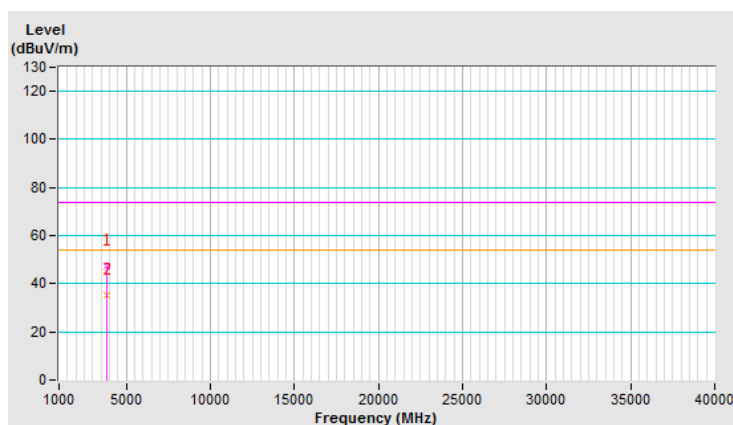


操 作 模 式 :	接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3857.00	47.6 PK	74.0	-26.4	2.69 H	284	39.7	7.9
2	3857.00	35.3 AV	54.0	-18.7	2.69 H	284	27.4	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value

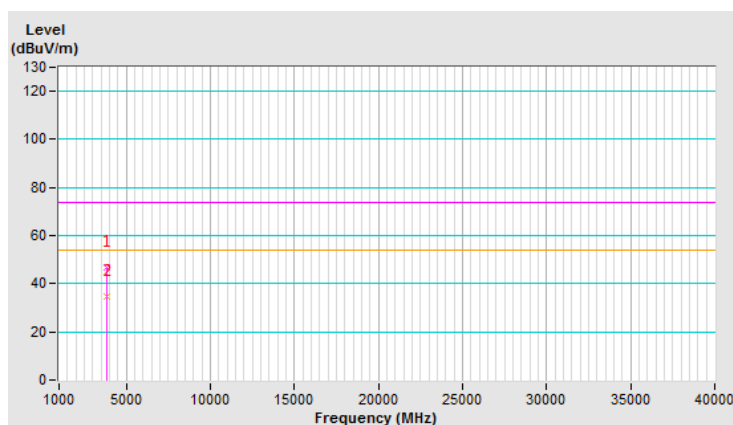


操 作 模 式 :	接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	張家誠

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	3857.00	46.6 PK	74.0	-27.4	1.15 V	25	38.7	7.9
2	3857.00	34.8 AV	54.0	-19.2	1.15 V	25	26.9	7.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value



9.6.3 其它不必要之訊號

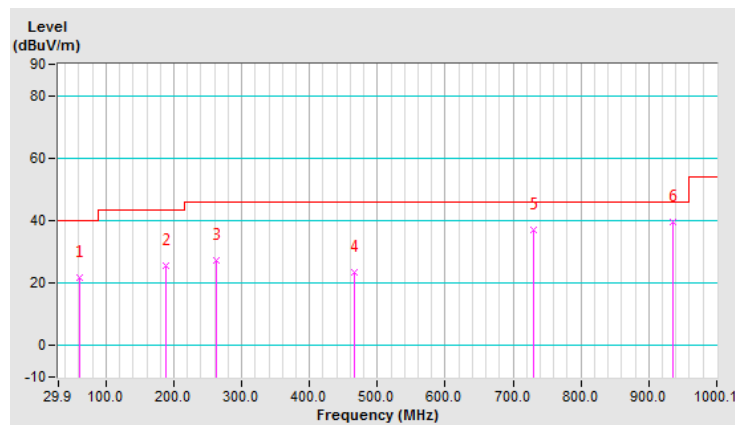
802.11a

操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李哲銘
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.95	21.9 QP	40.0	-18.1	2.00 H	10	32.0	-10.1
2	189.01	25.4 QP	43.5	-18.1	1.00 H	308	36.5	-11.1
3	262.75	27.2 QP	46.0	-18.8	1.00 H	85	36.3	-9.1
4	466.49	23.5 QP	46.0	-22.5	1.00 H	36	28.9	-5.4
5	730.38	37.1 QP	46.0	-8.9	1.00 H	288	36.7	0.4
6	936.07	39.6 QP	46.0	-6.4	1.00 H	157	35.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

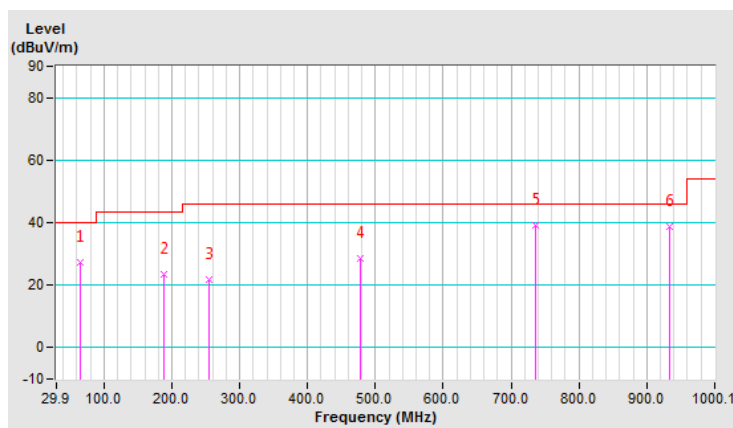


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李哲銘
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	64.83	27.3 QP	40.0	-12.7	1.50 V	29	37.8	-10.5
2	189.01	23.5 QP	43.5	-20.0	1.00 V	299	34.6	-11.1
3	254.99	21.9 QP	46.0	-24.1	1.00 V	220	31.2	-9.3
4	478.13	28.6 QP	46.0	-17.4	1.00 V	339	33.9	-5.3
5	736.21	39.2 QP	46.0	-6.8	1.50 V	12	38.7	0.5
6	934.13	38.6 QP	46.0	-7.4	1.00 V	95	34.7	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

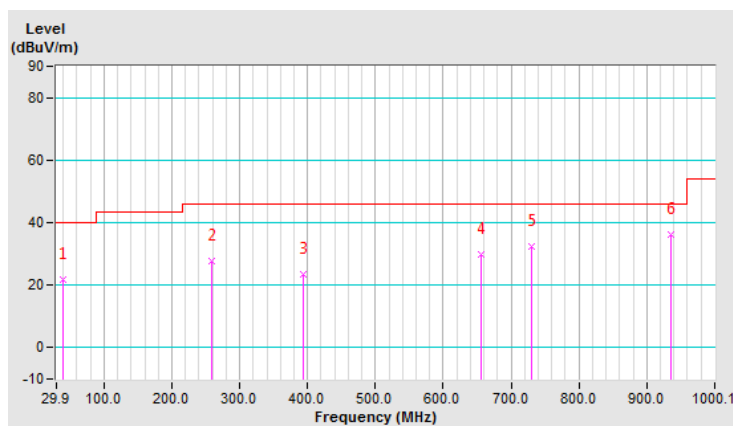


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李哲銘
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.60	21.8 QP	40.0	-18.2	2.00 H	101	31.2	-9.4
2	258.87	27.9 QP	46.0	-18.1	1.00 H	246	37.1	-9.2
3	394.70	23.5 QP	46.0	-22.5	1.00 H	143	30.1	-6.6
4	656.65	29.9 QP	46.0	-16.1	1.00 H	218	31.4	-1.5
5	730.38	32.3 QP	46.0	-13.7	1.50 H	10	31.9	0.4
6	936.07	36.3 QP	46.0	-9.7	1.50 H	44	32.3	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

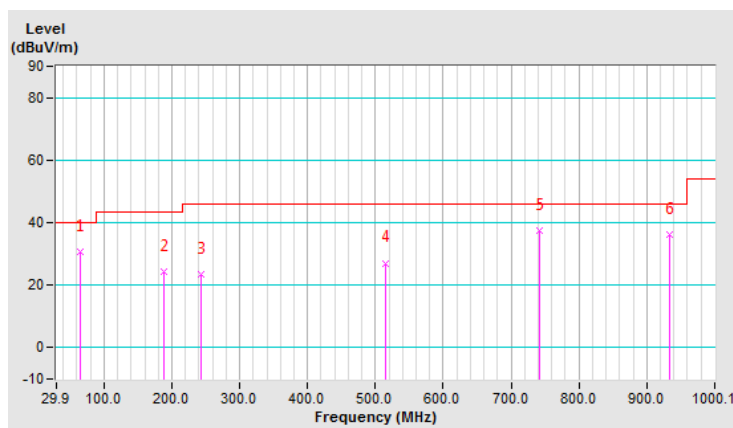


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 40 : 5200 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李哲銘
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	64.83	30.6 QP	40.0	-9.4	1.50 V	18	41.1	-10.5
2	189.01	24.2 QP	43.5	-19.3	1.50 V	259	35.3	-11.1
3	243.34	23.3 QP	46.0	-22.7	1.00 V	243	32.9	-9.6
4	515.00	27.1 QP	46.0	-18.9	1.00 V	253	31.8	-4.7
5	742.03	37.5 QP	46.0	-8.5	1.00 V	53	36.7	0.8
6	934.13	36.1 QP	46.0	-9.9	1.00 V	99	32.2	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

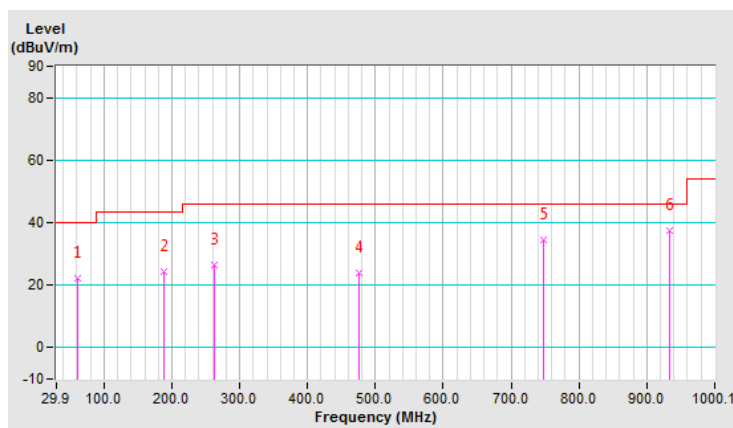


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李哲銘
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.95	22.2 QP	40.0	-17.8	1.50 H	193	32.3	-10.1
2	189.01	24.4 QP	43.5	-19.1	1.00 H	297	35.5	-11.1
3	262.75	26.6 QP	46.0	-19.4	1.00 H	100	35.7	-9.1
4	476.19	24.0 QP	46.0	-22.0	1.00 H	143	29.3	-5.3
5	747.85	34.4 QP	46.0	-11.6	1.00 H	210	33.5	0.9
6	934.13	37.4 QP	46.0	-8.6	2.00 H	72	33.5	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

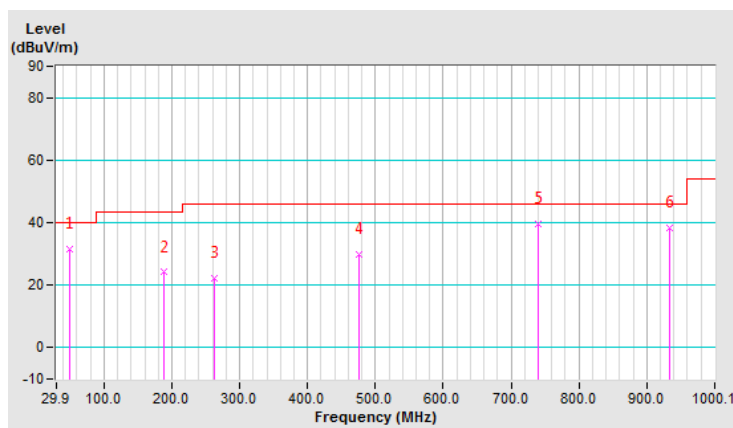


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李哲銘
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	49.30	31.7 QP	40.0	-8.3	1.00 V	76	40.6	-8.9
2	189.01	24.1 QP	43.5	-19.4	1.00 V	232	35.2	-11.1
3	262.75	22.3 QP	46.0	-23.7	1.00 V	33	31.4	-9.1
4	476.19	29.8 QP	46.0	-16.2	1.00 V	91	35.1	-5.3
5	740.09	39.4 QP	46.0	-6.6	1.00 V	63	38.7	0.7
6	934.13	38.1 QP	46.0	-7.9	1.00 V	338	34.2	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

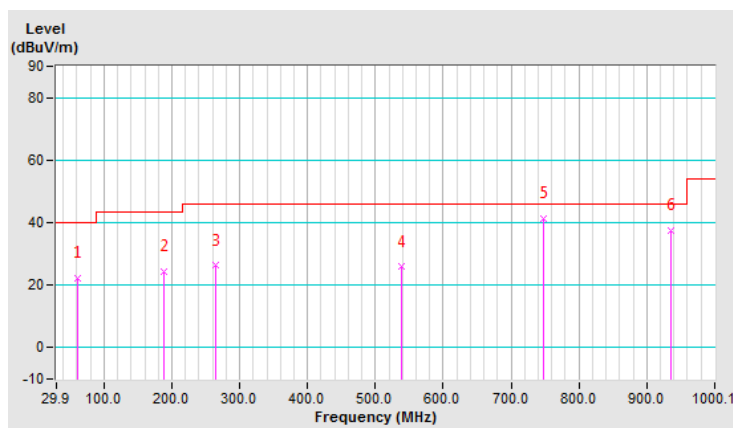


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李哲銘
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.95	22.0 QP	40.0	-18.0	1.50 H	267	32.1	-10.1
2	189.01	24.4 QP	43.5	-19.1	1.00 H	304	35.5	-11.1
3	264.69	26.2 QP	46.0	-19.8	1.00 H	88	35.2	-9.0
4	538.28	25.8 QP	46.0	-20.2	1.00 H	9	30.2	-4.4
5	747.85	41.4 QP	46.0	-4.6	2.00 H	136	40.5	0.9
6	936.07	37.4 QP	46.0	-8.6	1.00 H	276	33.4	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

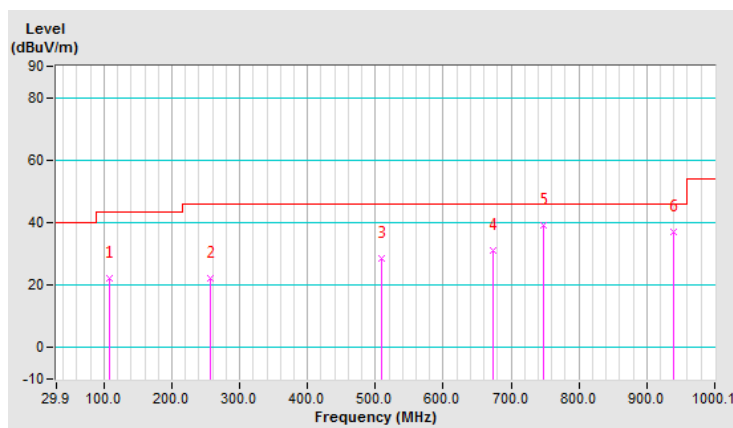


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 157 : 5785 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李哲銘
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	107.52	22.3 QP	43.5	-21.2	1.00 V	180	34.5	-12.2
2	256.93	22.2 QP	46.0	-23.8	1.00 V	313	31.5	-9.3
3	509.18	28.5 QP	46.0	-17.5	1.00 V	29	33.3	-4.8
4	674.11	31.3 QP	46.0	-14.7	1.00 V	343	32.4	-1.1
5	747.85	39.1 QP	46.0	-6.9	1.00 V	139	38.2	0.9
6	939.95	37.0 QP	46.0	-9.0	1.00 V	68	33.0	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



9.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

9.8 配置照片

請參閱附件（測試設置照片）。

10 電源線傳導干擾之量測

10.1 適用標準

請見本報告3.1節第1項的規定。

10.2 量測方法

將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，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0.15MHz至30MHz之間之電源線傳導放射強度。

10.3 量測儀器

同 5.3 節。

10.4 測試配置

同 5.4 節。

10.5 干擾值之計算

同 5.5 節。

10.6 量測結果

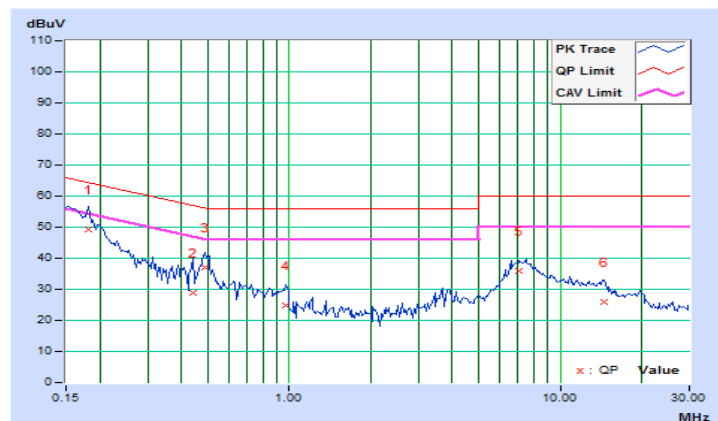
802.11a

操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 40 : 5200 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	A

輻射頻率 [MHz]	校正因子 [dB]	6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
		儀器讀值		結果值		限制值		餘裕度	
		[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.18125	9.67	39.73	25.02	49.40	34.69	64.43	54.43	-15.03	-19.74
0.43906	9.66	19.40	10.41	29.06	20.07	57.08	47.08	-28.02	-27.01
0.48984	9.66	27.55	19.55	37.21	29.21	56.17	46.17	-18.96	-16.96
0.96641	9.65	15.02	7.91	24.67	17.56	56.00	46.00	-31.33	-28.44
7.08594	9.79	26.07	21.48	35.86	31.27	60.00	50.00	-24.14	-18.73
14.55469	9.88	16.17	11.16	26.05	21.04	60.00	50.00	-33.95	-28.96

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

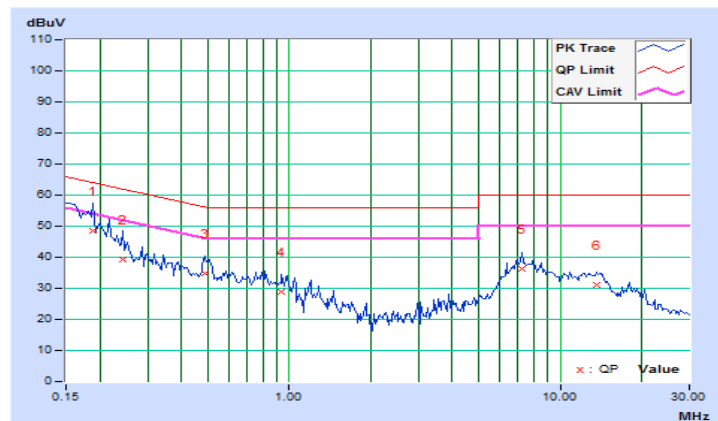


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 40 : 5200 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	A

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.18906	9.67	39.01	24.02	48.68	33.69	64.08	54.08	-15.40	-20.39
0.24375	9.67	29.65	17.52	39.32	27.19	61.97	51.97	-22.65	-24.78
0.48594	9.67	25.15	13.99	34.82	23.66	56.24	46.24	-21.42	-22.58
0.93906	9.65	19.29	12.82	28.94	22.47	56.00	46.00	-27.06	-23.53
7.25781	9.80	26.49	21.72	36.29	31.52	60.00	50.00	-23.71	-18.48
13.61719	9.92	21.32	15.97	31.24	25.89	60.00	50.00	-28.76	-24.11

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

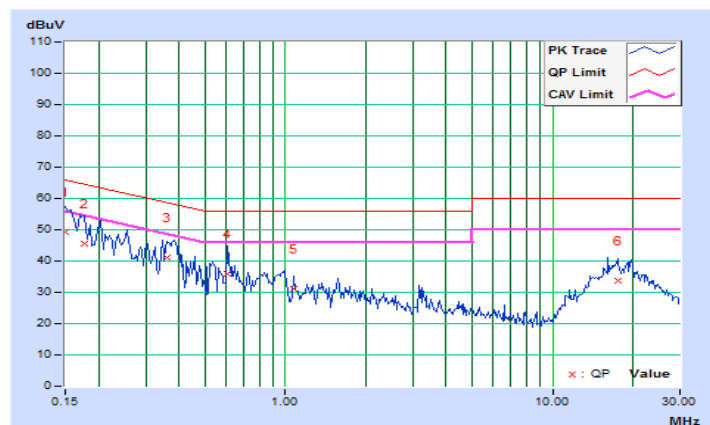


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 40 : 5200 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	B

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	9.67	39.71	25.94	49.38	35.61	66.00	56.00	-16.62	-20.39
0.17734	9.67	35.80	21.05	45.47	30.72	64.61	54.61	-19.14	-23.89
0.36094	9.66	31.62	28.09	41.28	37.75	58.71	48.71	-17.43	-10.96
0.60703	9.66	26.26	26.01	35.92	35.67	56.00	46.00	-20.08	-10.33
1.07813	9.65	21.54	17.39	31.19	27.04	56.00	46.00	-24.81	-18.96
17.64063	9.90	23.62	18.79	33.52	28.69	60.00	50.00	-26.48	-21.31

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

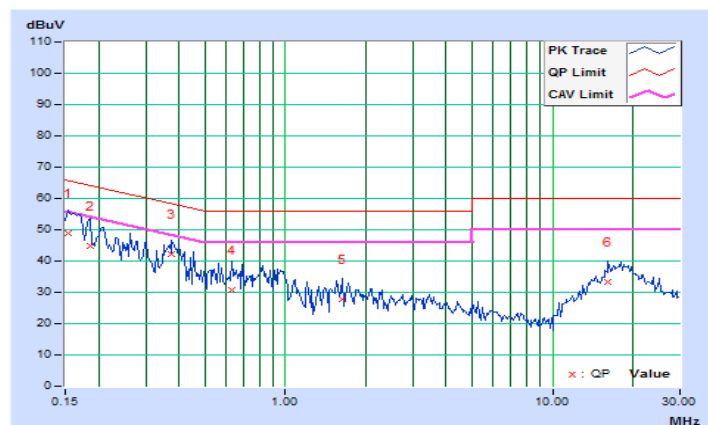


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 40 : 5200 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	B

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15391	9.68	39.36	23.97	49.04	33.65	65.79	55.79	-16.75	-22.14
0.18516	9.67	35.06	20.74	44.73	30.41	64.25	54.25	-19.52	-23.84
0.37656	9.67	32.42	28.48	42.09	38.15	58.35	48.35	-16.26	-10.20
0.63438	9.66	20.95	17.97	30.61	27.63	56.00	46.00	-25.39	-18.37
1.64453	9.67	18.14	12.23	27.81	21.90	56.00	46.00	-28.19	-24.10
16.18359	9.96	23.22	18.77	33.18	28.73	60.00	50.00	-26.82	-21.27

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

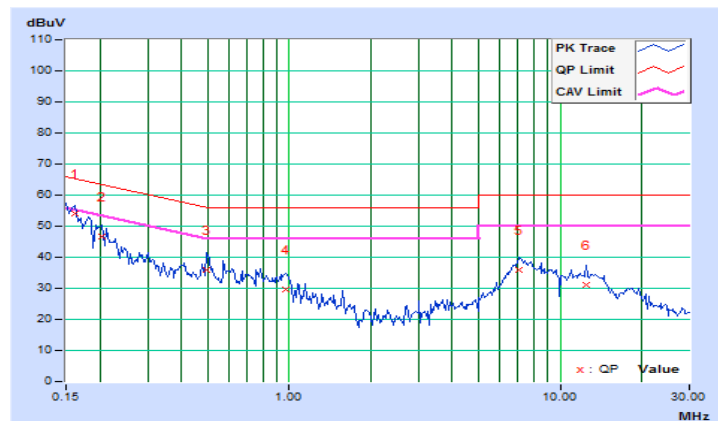


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 157 : 5785 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	A

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.16172	9.67	44.24	30.22	53.91	39.89	65.38	55.38	-11.47	-15.49
0.20469	9.67	36.94	26.50	46.61	36.17	63.42	53.42	-16.81	-17.25
0.49375	9.66	26.23	18.62	35.89	28.28	56.10	46.10	-20.21	-17.82
0.97422	9.65	20.15	14.17	29.80	23.82	56.00	46.00	-26.20	-22.18
7.08984	9.79	26.09	21.48	35.88	31.27	60.00	50.00	-24.12	-18.73
12.50391	9.87	21.33	15.60	31.20	25.47	60.00	50.00	-28.80	-24.53

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

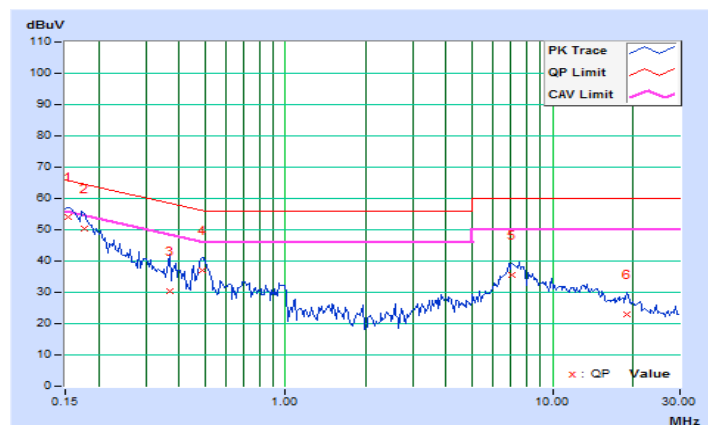


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 157 : 5785 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	A

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15391	9.68	44.48	28.72	54.16	38.40	65.79	55.79	-11.63	-17.39
0.17734	9.67	40.57	24.97	50.24	34.64	64.61	54.61	-14.37	-19.97
0.36875	9.67	20.58	10.15	30.25	19.82	58.53	48.53	-28.28	-28.71
0.48594	9.67	27.33	20.47	37.00	30.14	56.24	46.24	-19.24	-16.10
7.08594	9.80	25.71	21.19	35.51	30.99	60.00	50.00	-24.49	-19.01
18.91797	9.99	12.94	8.63	22.93	18.62	60.00	50.00	-37.07	-31.38

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

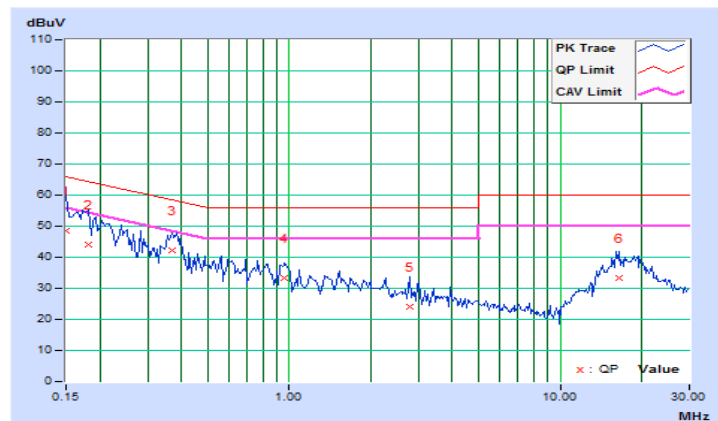


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 157 : 5785 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	B

		6 dB Bandwidth: 9kHz				PHASE: LINE (L)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	9.67	39.01	24.20	48.68	33.87	66.00	56.00	-17.32	-22.13
0.18125	9.67	34.56	20.20	44.23	29.87	64.43	54.43	-20.20	-24.56
0.36875	9.66	32.40	29.05	42.06	38.71	58.53	48.53	-16.47	-9.82
0.96250	9.65	23.74	19.13	33.39	28.78	56.00	46.00	-22.61	-17.22
2.77344	9.70	14.45	8.74	24.15	18.44	56.00	46.00	-31.85	-27.56
16.61328	9.89	23.41	18.40	33.30	28.29	60.00	50.00	-26.70	-21.71

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.

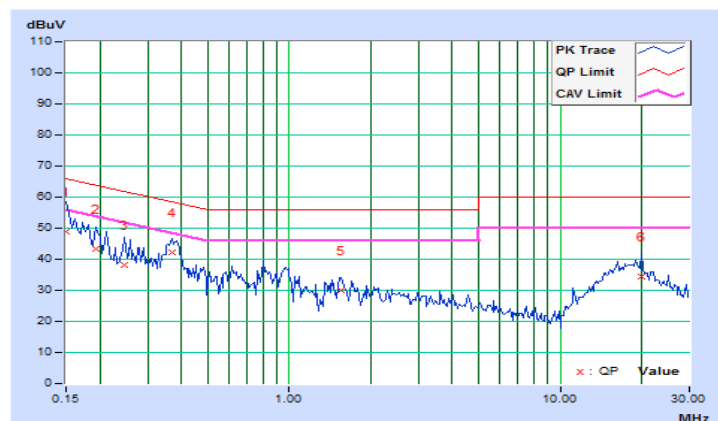


操作模式	發射/接收	測試日期	107 年 12 月 25 日
基本波頻率	CH 157 : 5785 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張家誠	測試模式	B

		6 dB Bandwidth: 9kHz				PHASE: NEUTRAL (N)			
輻射頻率	校正因子	儀器讀值		結果值		限制值		餘裕度	
[MHz]	[dB]	[dB (uV)]		[dB (uV)]		[dB (uV)]		[dB]	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.15000	9.68	39.21	24.48	48.89	34.16	66.00	56.00	-17.11	-21.84
0.19297	9.67	33.57	21.08	43.24	30.75	63.91	53.91	-20.67	-23.16
0.24766	9.67	28.61	19.24	38.28	28.91	61.84	51.84	-23.56	-22.93
0.36875	9.67	32.67	28.95	42.34	38.62	58.53	48.53	-16.19	-9.91
1.55859	9.67	20.44	16.00	30.11	25.67	56.00	46.00	-25.89	-20.33
19.91797	10.01	24.50	19.24	34.51	29.25	60.00	50.00	-25.49	-20.75

Note:

- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading Value.



10.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

10.8 配置照片

請參閱附件（測試設置照片）。

11 峰值傳導輸出功率量測及發射頻寬之要求

11.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	請見本報告 3.1 節第 6 項(II)及 4 項(II)的規定
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 6 項(III)及 4 項(III)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 6 項(IV)及 4 項(IV)的規定

11.2 量測方法

輸出峰值功率量測方法：

- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其輸出功率峰值。

11.3 量測儀器

同 7.3 節。

11.4 測試配置

同 7.4 節。

11.5 量測結果

操作模式	發射	測試日期	108 年 01 月 03 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	張明逸		

For 5180 ~ 5240MHz

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	21.66	21.54	289.116	24.61	30.00	Pass
40	5200	25.63	25.62	730.349	28.64	30.00	Pass
48	5240	25.56	25.45	710.501	28.52	30.00	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	22.66	22.35	356.293	25.52	30.00	Pass
40	5200	25.73	25.85	758.703	28.80	30.00	Pass
48	5240	25.51	25.48	708.814	28.51	30.00	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	20.45	20.56	224.680	23.52	30.00	Pass
46	5230	24.65	24.56	577.502	27.62	30.00	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	19.88	19.69	190.386	22.80	30.00	Pass

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	22.66	22.35	356.293	25.52	30.00	Pass
40	5200	25.73	25.85	758.703	28.80	30.00	Pass
48	5240	25.51	25.48	708.814	28.51	30.00	Pass

Note: Directional gain = 4.42dBi < 6dBi, so the power limit no need to be reduced.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	20.45	20.56	224.680	23.52	30.00	Pass
46	5230	24.65	24.56	577.502	27.62	30.00	Pass

Note: Directional gain = 4.42dBi < 6dBi, so the power limit no need to be reduced.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	19.88	19.69	190.386	22.80	30.00	Pass

Note: Directional gain = 4.42dBi < 6dBi, so the power limit no need to be reduced.

For 5745 ~ 5825MHz

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	23.48	23.81	23.79	23.52	927.517	29.67	30.00	Pass
157	5785	23.38	23.61	23.90	23.57	920.367	29.64	30.00	Pass
165	5825	23.56	23.80	23.70	23.48	924.136	29.66	30.00	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	23.52	23.78	23.72	23.59	927.751	29.67	30.00	Pass
157	5785	23.60	23.46	23.92	23.58	925.545	29.66	30.00	Pass
165	5825	23.62	23.74	23.61	23.46	918.171	29.63	30.00	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
151	5755	23.58	23.57	23.47	23.61	907.490	29.58	30.00	Pass
159	5795	23.72	23.54	23.42	23.89	926.141	29.67	30.00	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
155	5775	21.89	21.90	21.66	22.02	615.183	27.89	30.00	Pass

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	22.59	22.85	22.79	22.66	748.914	28.74	28.91	Pass
157	5785	22.67	22.53	22.99	22.65	747.132	28.73	28.91	Pass
165	5825	22.69	22.81	22.68	22.53	741.179	28.70	28.91	Pass

Note: Directional gain = 7.09dBi > 6dBi, so the power limit shall be reduced to $30 - (7.09 - 6) = 28.91\text{dBm}$.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
151	5755	22.65	22.64	22.54	22.68	732.557	28.65	28.91	Pass
159	5795	22.79	22.61	22.49	22.96	747.614	28.74	28.91	Pass

Note: Directional gain = 7.09dBi > 6dBi, so the power limit shall be reduced to $30 - (7.09 - 6) = 28.91\text{dBm}$.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
155	5775	21.89	21.90	21.66	22.02	615.183	27.89	28.91	Pass

Note: Directional gain = 7.09dBi > 6dBi, so the power limit shall be reduced to $30 - (7.09 - 6) = 28.91\text{dBm}$.

11.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

12 功率頻譜密度之量測

12.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	請見本報告 3.1 節第 7 項(II)及 4 項(II)的規定
☐ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定
☐ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 7 項(III)及 4 項(III)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 7 項(IV)及 4 項(IV)的規定

12.2 量測方法

For 5180 ~ 5240MHz:

Duty cycle of test signal is > 98%

Using method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Duty cycle of test signal is < 98%

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Set Channel power measure = 1MHz
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add $10 \log (1/\text{duty cycle})$

For 5745 ~ 5825MHz:

Duty cycle of test signal is > 98%

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Duty cycle of test signal is < 98%

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz} / 300 \text{ kHz})$
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add $10 \log (1/\text{duty cycle})$

12.3 量測儀器

同 8.3 節。

12.4 測試配置

同 8.4 節。

12.5 量測結果

操作模式	發射	測試日期	108 年 01 月 03 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	張明逸		

For 5180 ~ 5240MHz

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	7.40	7.55	0.17	10.66	17.00	Pass
40	5200	10.38	10.64	0.17	13.69	17.00	Pass
48	5240	9.47	9.99	0.17	12.92	17.00	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.42dBi < 6dBi, so the power density limit no need to be reduced.
- Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	7.01	7.62	10.34	17.00	Pass
40	5200	10.00	10.69	13.37	17.00	Pass
48	5240	9.38	9.81	12.61	17.00	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.42dBi < 6dBi, so the power density limit no need to be reduced.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	2.65	3.58	0.13	6.28	17.00	Pass
46	5230	6.58	7.25	0.13	10.07	17.00	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.42dBi < 6dBi, so the power density limit no need to be reduced.
- Refer to section 2.1 for duty cycle spectrum plot.

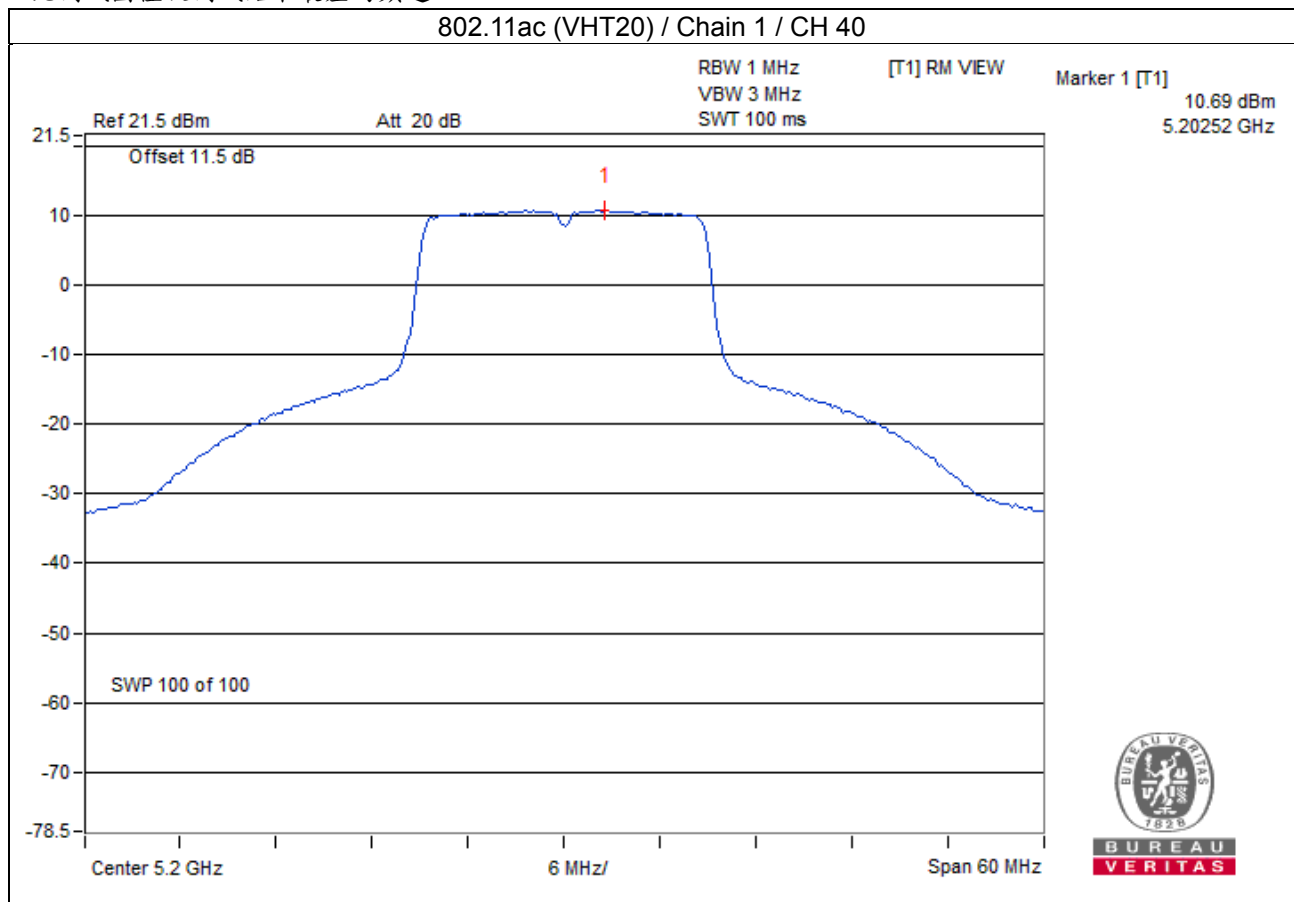
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-0.72	-0.52	0.26	2.65	17.00	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4.42dBi < 6dBi, so the power density limit no need to be reduced.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



For 5745 ~ 5825MHz

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	0.89	3.11	6.02	0.17	9.30	28.91	Pass
	157	5785	1.18	3.40	6.02	0.17	9.59	28.91	Pass
	165	5825	1.35	3.57	6.02	0.17	9.76	28.91	Pass
1	149	5745	1.07	3.29	6.02	0.17	9.48	28.91	Pass
	157	5785	1.27	3.49	6.02	0.17	9.68	28.91	Pass
	165	5825	1.41	3.63	6.02	0.17	9.82	28.91	Pass
2	149	5745	1.16	3.38	6.02	0.17	9.57	28.91	Pass
	157	5785	1.43	3.65	6.02	0.17	9.84	28.91	Pass
	165	5825	2.16	4.38	6.02	0.17	10.57	28.91	Pass
3	149	5745	1.18	3.40	6.02	0.17	9.59	28.91	Pass
	157	5785	1.00	3.22	6.02	0.17	9.41	28.91	Pass
	165	5825	1.26	3.48	6.02	0.17	9.67	28.91	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.09dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.09 - 6) = 28.91$ dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	0.36	2.58	6.02	8.60	28.91	Pass
	157	5785	0.64	2.86	6.02	8.88	28.91	Pass
	165	5825	0.73	2.95	6.02	8.97	28.91	Pass
1	149	5745	0.61	2.83	6.02	8.85	28.91	Pass
	157	5785	0.74	2.96	6.02	8.98	28.91	Pass
	165	5825	0.93	3.15	6.02	9.17	28.91	Pass
2	149	5745	0.53	2.75	6.02	8.77	28.91	Pass
	157	5785	0.99	3.21	6.02	9.23	28.91	Pass
	165	5825	1.66	3.88	6.02	9.90	28.91	Pass
3	149	5745	0.54	2.76	6.02	8.78	28.91	Pass
	157	5785	0.26	2.48	6.02	8.50	28.91	Pass
	165	5825	-0.27	1.95	6.02	7.97	28.91	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 7.09dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.09 - 6) = 28.91$ dBm.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-1.67	0.55	6.02	0.13	6.70	28.91	Pass
	159	5795	-1.31	0.91	6.02	0.13	7.06	28.91	Pass
1	151	5755	-1.52	0.70	6.02	0.13	6.85	28.91	Pass
	159	5795	-1.32	0.90	6.02	0.13	7.05	28.91	Pass
2	151	5755	-1.27	0.95	6.02	0.13	7.10	28.91	Pass
	159	5795	-0.89	1.33	6.02	0.13	7.48	28.91	Pass
3	151	5755	-1.78	0.44	6.02	0.13	6.59	28.91	Pass
	159	5795	-2.56	-0.34	6.02	0.13	5.81	28.91	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 7.09dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.09 - 6) = 28.91$ dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

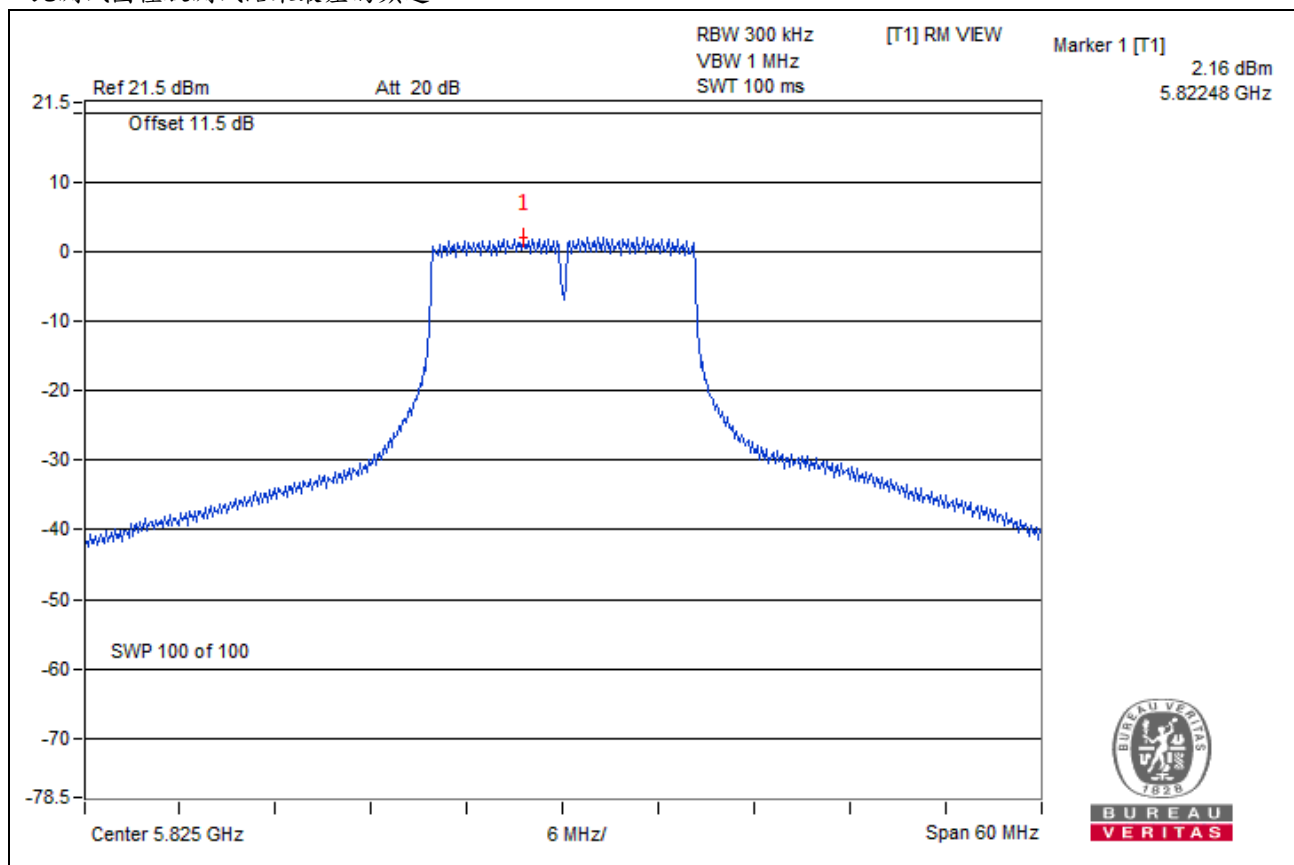
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-4.76	-2.54	6.02	0.26	3.74	28.91	Pass
1	155	5775	-4.55	-2.33	6.02	0.26	3.95	28.91	Pass
2	155	5775	-4.60	-2.38	6.02	0.26	3.90	28.91	Pass
3	155	5775	-5.44	-3.22	6.02	0.26	3.06	28.91	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7.09dBi > 6dBi, so the power density limit shall be reduced to $30 - (7.09 - 6) = 28.91$ dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



12.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

13 6 dB 頻寬之要求

13.1 適用標準

待測物操作頻帶	適用標準
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 6 項(II)的規定

13.2 量測方法

- a) 將待測物輸出經由衰減器接到頻譜分析儀上。
- b) 設定待測物處於連續發射狀態。
- c) 計算由最大輸出功率峰值減6dB的最大頻率範圍。

13.3 量測儀器

同 6.3 節。

13.4 測試配置

同 6.4 節。

13.5 量測結果

操作模式	發射	測試日期	108 年 01 月 03 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	張明逸		

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.39	16.41	16.39	16.40	0.5	Pass
157	5785	16.41	16.42	16.39	16.41	0.5	Pass
165	5825	16.40	16.43	16.39	16.38	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	17.63	17.63	17.62	17.62	0.5	Pass
157	5785	17.63	17.64	17.57	17.63	0.5	Pass
165	5825	17.61	17.62	17.59	17.63	0.5	Pass

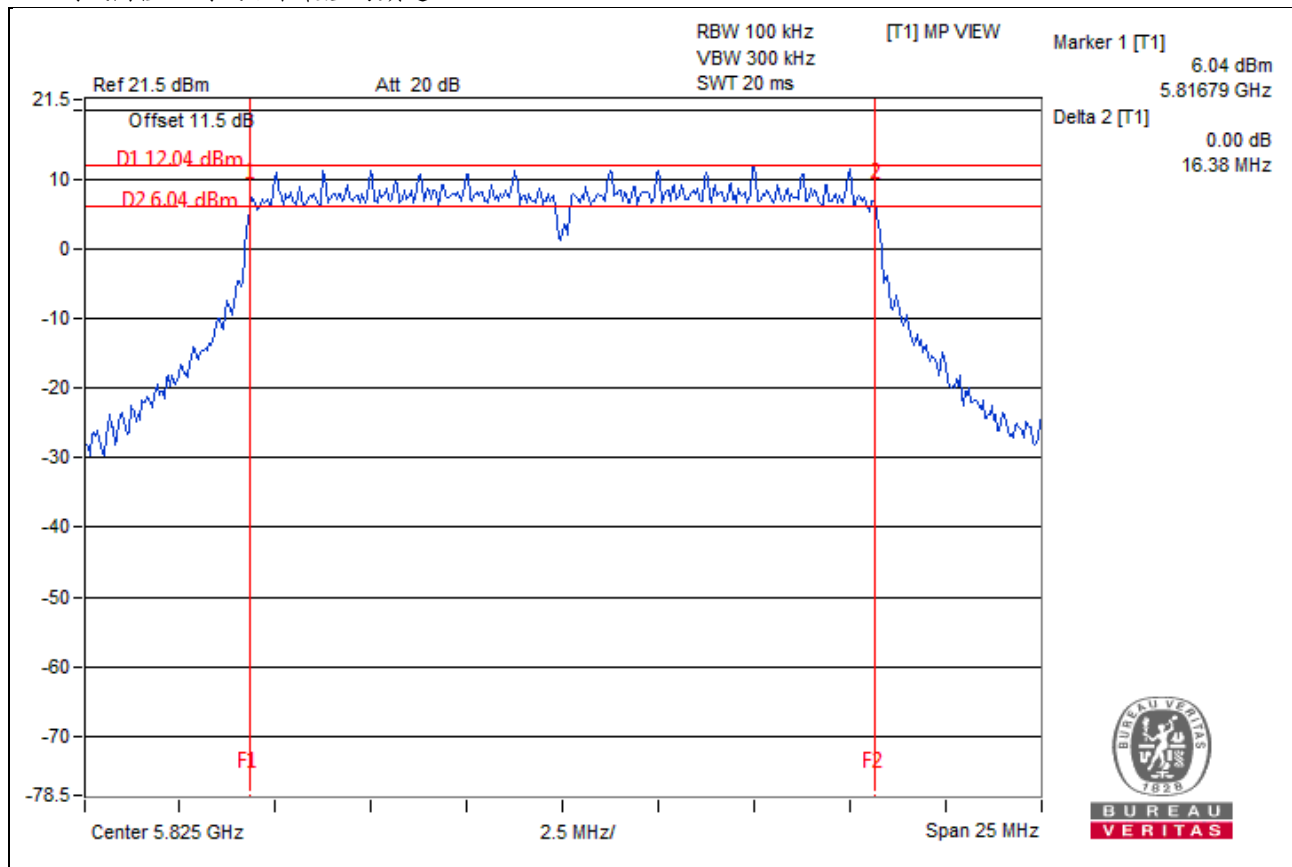
802.11 (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	35.17	35.42	35.22	35.16	0.5	Pass
159	5795	35.20	35.16	35.17	35.28	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	76.41	75.91	76.41	76.46	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



13.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

Co-Located 測試項目及結果

14 場強輻射及開放頻帶邊緣之量測

14.1 適用標準

請見本報告3.1節第2項的規定。

14.2 量測方法

在電波暗室，將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態。接收天線置於3米處。桌面要360度旋轉，另外接收天線也要從離地1米至4米升降變化，以找出最大的輻射電場強度，接收天線分別置於水平、垂直極化各執行測試一次。

Note: 對於 1GHz 以上場強輻射的測試，待測物則置於1.5米高的非金屬桌面

14.3 量測儀器

同4.3節

14.4 測試配置

同4.4節。

14.5 場強度之計算

場強之計算公式如下：

結果值Emission level (dBuV/m)=機器讀值 Raw Value (dBuV) +校正因子Correction Factor (dB/m)

餘裕度Margin(dB)= 結果值Emission level (dBuV/m)-限制值Limit value (dBuV/m)

量測結果請見下頁。

14.6 量測結果

14.6.1 發射諧波

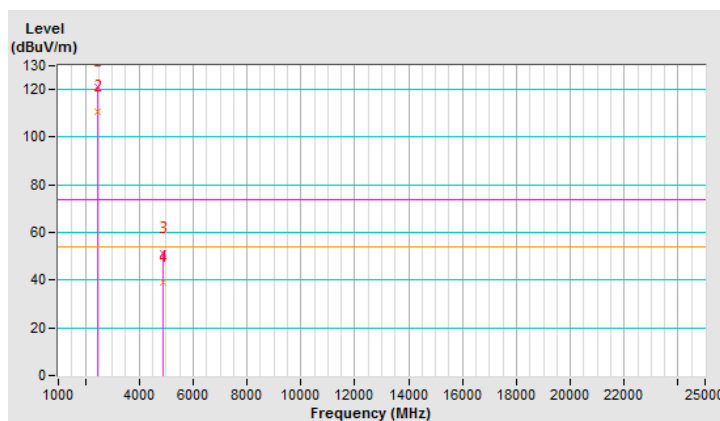
802.11g: Ch 6 + 802.11a: Ch: 48 + 802.11a: Ch 149

操作模式：	發射	調變技術：	OFDM-MIMO
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	25°C	量測場地濕度：	70%RH
測試日期：	108 年 01 月 23 日	測試者：	李銘哲

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	121.3 PK			1.56 H	18	87.5	33.8
2	*2437.00	110.7 AV			1.56 H	18	76.9	33.8
3	4874.00	51.5 PK	74.0	-22.5	1.72 H	201	38.3	13.2
4	4874.00	39.1 AV	54.0	-14.9	1.72 H	201	25.9	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “* “: Fundamental frequency (主頻)
6. “# “: The radiated frequency is out of the restricted band
7. “- “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

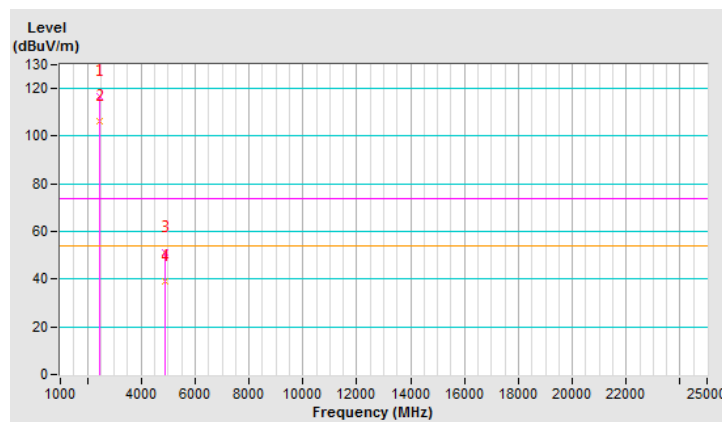


操 作 模 式 :	發射	調 變 技 術 :	OFDM-MIMO
基 本 波 頻 率 :	CH 6 : 2437 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 23 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.6 PK			3.32 V	102	82.8	33.8
2	*2437.00	106.5 AV			3.32 V	102	72.7	33.8
3	4874.00	51.2 PK	74.0	-22.8	2.15 V	163	38.0	13.2
4	4874.00	39.0 AV	54.0	-15.0	2.15 V	163	25.8	13.2
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 3.10.1.2)

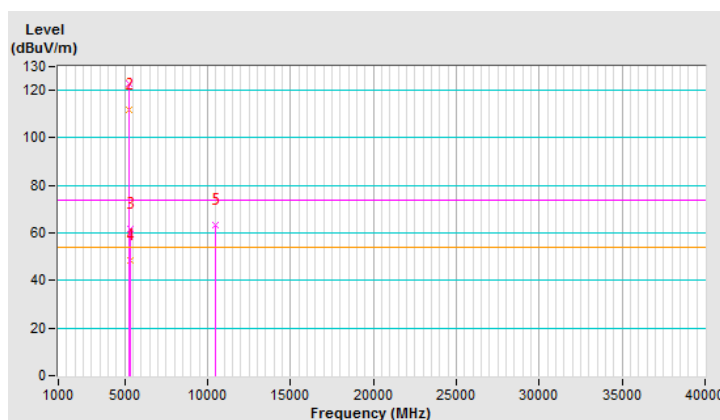


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 48 : 5240 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	122.7 PK			1.52 H	93	81.5	41.2
2	*5240.00	112.0 AV			1.52 H	93	70.8	41.2
3	5350.00	61.6 PK	74.0	-12.4	1.52 H	90	49.2	12.4
4	5350.00	48.4 AV	54.0	-5.6	1.52 H	93	36.0	12.4
5	#10480.00	63.4 PK	68.2	-4.8	1.99 H	289	40.6	22.8
	15720.00	-	-	-	-	-	-	-
	20960.00	-	-	-	-	-	-	-
	26200.00	-	-	-	-	-	-	-
	31440.00	-	-	-	-	-	-	-
	36680.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

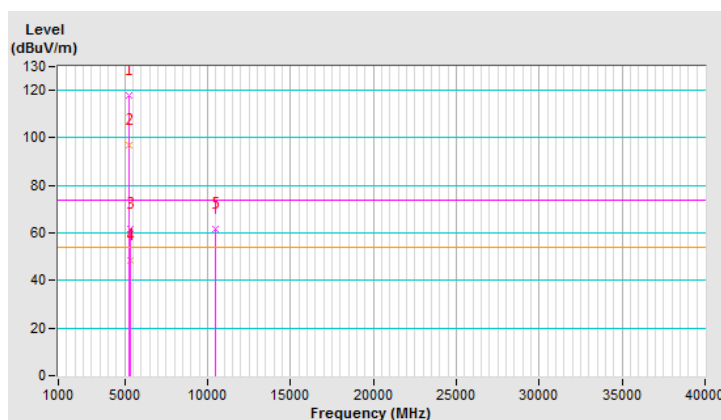


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 48 : 5240 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	69%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	117.7 PK			1.23 V	150	76.5	41.2
2	*5240.00	96.7 AV			1.23 V	150	55.5	41.2
3	5350.00	61.5 PK	74.0	-12.5	1.00 V	179	49.1	12.4
4	5350.00	48.4 AV	54.0	-5.6	1.00 V	179	36.0	12.4
5	#10480.00	61.9 PK	68.2	-6.3	2.30 V	243	39.1	22.8
	15720.00	-	-	-	-	-	-	-
	20960.00	-	-	-	-	-	-	-
	26200.00	-	-	-	-	-	-	-
	31440.00	-	-	-	-	-	-	-
	36680.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ * “: Fundamental frequency (主頻)
6. “ # “: The radiated frequency is out of the restricted band
7. “ - “: The emission levels were too low to be detected
8. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

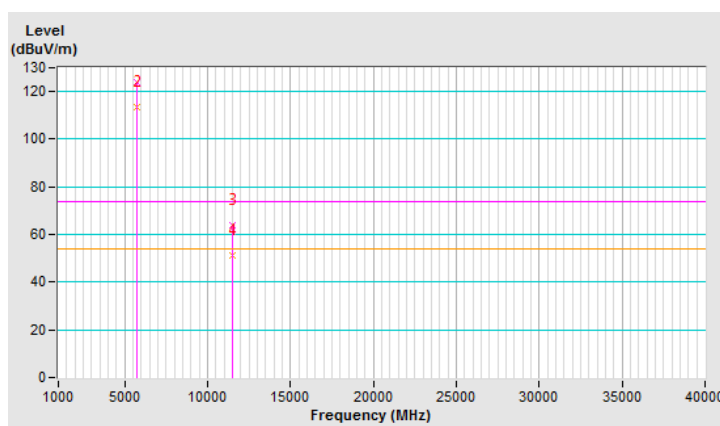


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 23 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	123.9 PK			1.26 H	80	81.4	42.5
2	*5745.00	113.5 AV			1.26 H	80	71.0	42.5
3	11490.00	63.9 PK	74.0	-10.1	2.38 H	155	39.8	24.1
4	11490.00	51.0 AV	54.0	-3.0	2.38 H	155	26.9	24.1
	17235.00	-	-	-	-	-	-	-
	22980.00	-	-	-	-	-	-	-
	28725.00	-	-	-	-	-	-	-
	34470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

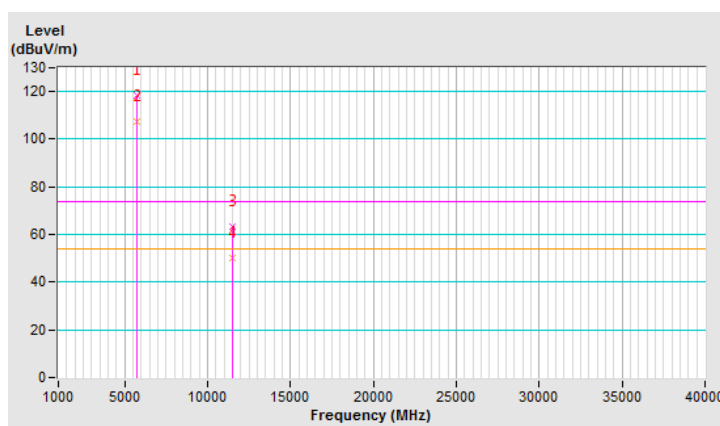


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 23 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	118.3 PK			2.30 V	61	75.8	42.5
2	*5745.00	107.5 AV			2.30 V	61	65.0	42.5
3	11490.00	63.5 PK	74.0	-10.5	1.74 V	190	39.4	24.1
4	11490.00	50.3 AV	54.0	-3.7	1.74 V	190	26.2	24.1
	17235.00	-	-	-	-	-	-	-
	22980.00	-	-	-	-	-	-	-
	28725.00	-	-	-	-	-	-	-
	34470.00	-	-	-	-	-	-	-

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “*”: Fundamental frequency (主頻)
6. “-”: The emission levels were too low to be detected
7. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)

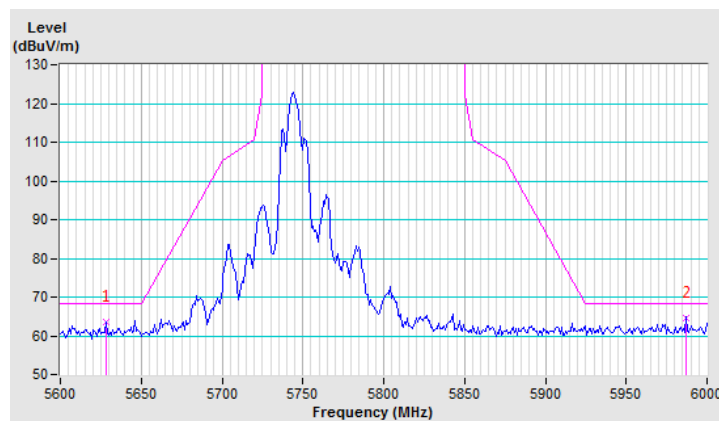


操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 23 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5628.00	63.6 PK	68.2	-4.6	1.26 H	80	50.9	12.7
2	#5987.20	64.5 PK	68.2	-3.7	1.26 H	80	50.7	13.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “ # “: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



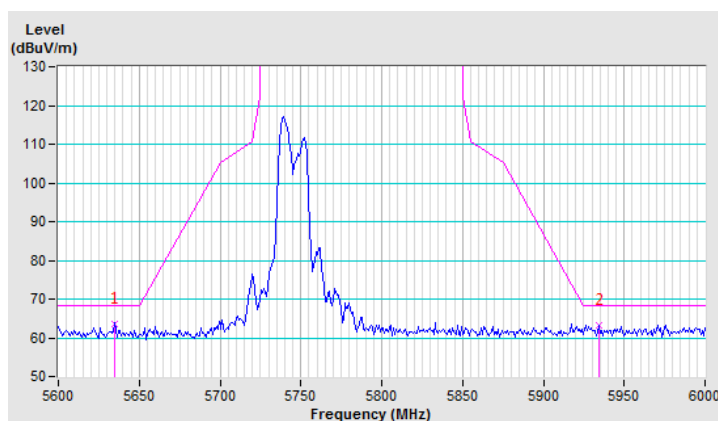
操 作 模 式 :	發射	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 149 : 5745 MHz (OOBE)	測 試 儀 器 :	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	108 年 01 月 23 日	測 試 者 :	李銘哲

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5635.20	63.4 PK	68.2	-4.8	2.30 V	61	50.7	12.7
2	#5934.40	63.1 PK	68.2	-5.1	2.30 V	61	49.5	13.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit
5. “#”: The radiated frequency is out of the restricted band
6. The blank is not available, the limit of fundamental frequency was restricted at the peak output power (see LP0002 4.7.3)



14.6.2 其它不必要之訊號

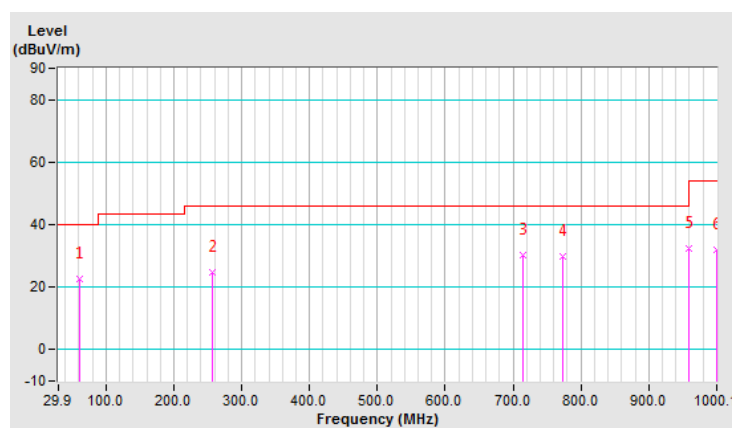
802.11g: Ch 6 + 802.11a: Ch: 48 + 802.11a: Ch 149

操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz + CH 48 : 5240 MHz + CH 149 : 5745 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李銘哲
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.95	22.6 QP	40.0	-17.4	1.00 H	76	32.7	-10.1
2	256.93	24.9 QP	46.0	-21.1	1.00 H	259	34.2	-9.3
3	714.86	30.4 QP	46.0	-15.6	1.00 H	159	30.6	-0.2
4	773.07	29.9 QP	46.0	-16.1	1.00 H	170	28.5	1.4
5	959.35	32.5 QP	46.0	-13.5	1.00 H	172	28.1	4.4
6	1000.00	31.9 QP	54.0	-22.1	1.00 H	145	27.4	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

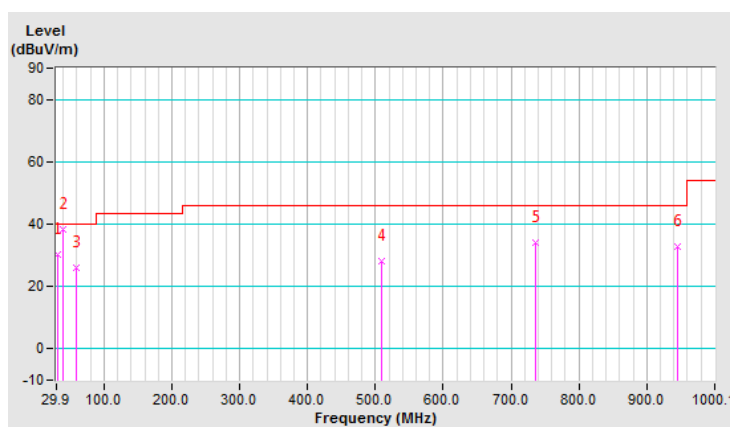


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz + CH 48 : 5240 MHz + CH 149 : 5745 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 24 日	測 試 者 :	李銘哲
測 試 模 式 :	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.84	30.3 QP	40.0	-9.7	1.00 V	9	41.3	-11.0
2	39.60	38.1 QP	40.0	-1.9	1.00 V	41	47.5	-9.4
3	59.01	26.2 QP	40.0	-13.8	1.00 V	45	35.9	-9.7
4	509.18	28.0 QP	46.0	-18.0	1.00 V	11	32.8	-4.8
5	736.21	34.1 QP	46.0	-11.9	1.00 V	63	33.6	0.5
6	945.77	32.6 QP	46.0	-13.4	1.00 V	108	28.3	4.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

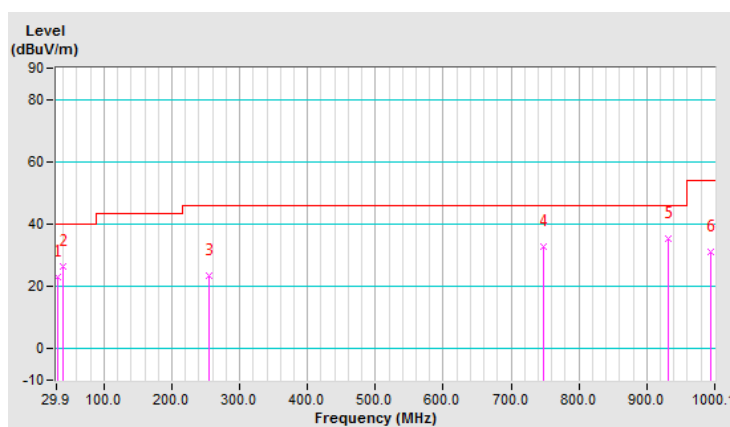


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz + CH 48 : 5240 MHz + CH 149 : 5745 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李銘哲
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.84	23.2 QP	40.0	-16.8	1.00 H	353	34.2	-11.0
2	39.60	26.5 QP	40.0	-13.5	1.00 H	99	35.9	-9.4
3	254.99	23.3 QP	46.0	-22.7	1.00 H	267	32.6	-9.3
4	747.85	33.0 QP	46.0	-13.0	1.00 H	299	32.1	0.9
5	932.19	35.3 QP	46.0	-10.7	1.00 H	234	31.3	4.0
6	994.28	31.1 QP	54.0	-22.9	1.00 H	253	26.7	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

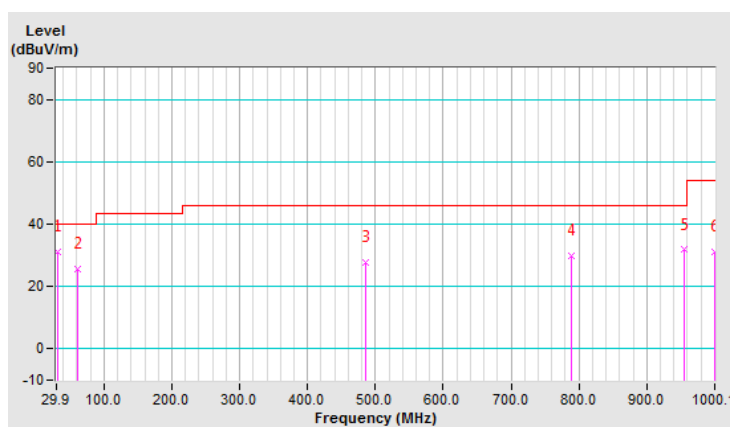


操 作 模 式 :	發射/接收	調 變 技 術 :	OFDM
基 本 波 頻 率 :	CH 6 : 2437 MHz + CH 48 : 5240 MHz + CH 149 : 5745 MHz	測 試 儀 器 :	(QP) RB=120kHz
量 測 場 地 溫 度 :	25°C	量 測 場 地 濕 度 :	70%RH
測 試 日 期 :	107 年 12 月 25 日	測 試 者 :	李銘哲
測 試 模 式 :	B		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.84	30.9 QP	40.0	-9.1	2.00 V	330	41.9	-11.0
2	60.95	25.8 QP	40.0	-14.2	1.00 V	78	35.9	-10.1
3	485.89	27.7 QP	46.0	-18.3	1.00 V	80	33.0	-5.3
4	788.60	29.7 QP	46.0	-16.3	1.00 V	10	28.1	1.6
5	955.47	31.7 QP	46.0	-14.3	1.00 V	196	27.4	4.3
6	1000.00	31.2 QP	54.0	-22.8	1.50 V	75	26.7	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



14.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

14.8 配置照片

請參閱附件（測試設置照片）。

15 電波暴露量之評估

15.1 適用標準

請見本報告3.1節第12項的規定。

15.2 評估方法

a) 以第7.5、11.5節所測得的最大輸出功率值再加上待測物天線的增益值(Gain)帶入下面公式換算出待測物所輻射的功率密度。

b) $P_d = (P_{out} * G) / (4 * \pi * r^2)$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

15.3 評估結果

電波暴露量之評估

- ☐ 待測物並非是 WLAN AP/Router 產品，不需進行電波暴露量之評估
- ☒ 待測物為 WLAN AP/Router 產品，需進行電波暴露量之評估
- ☐ 待測物為手機或平板電腦產品，具備 WiFi hot spot 功能，需進行電波暴露量之評估

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
CDD Mode					
2412-2462	28.59	4.27	27	0.211	1
5180-5240	28.80	4.42	27	0.229	1
5745-5825	29.67	7.09	27	0.518	1
Beamforming Mode					
2412-2462	28.57	4.27	27	0.210	1
5180-5240	28.80	4.42	27	0.229	1
5745-5825	28.74	7.09	27	0.418	1

Note:

2412 ~ 2462MHz: Directional gain = 4.27dBi

5180 ~ 5240MHz: Directional gain = 4.42dBi

5745 ~ 5825MHz: Directional gain = 7.09dBi

Conclusion:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

$2.4G + 5G \text{ Band } 1 + 5G \text{ Band } 4 = 0.211 / 1 + 0.229 / 1 + 0.518 / 1 = 0.958$

Therefore the maximum calculations of above situations are less than the "1" limit.

16 檢測實驗室基本資料

立德國際商品試驗有限公司桃園分公司提供產業界最佳的檢測以及諮詢服務。
本公司為ISO/IEC 17025認可實驗室。

如您有任何問題或建議，請與下列實驗室聯絡：

林口 EMC / RF 實驗室：

Tel: 886-2-26052180

Fax: 886-2-26051924

新竹 EMC / RF 及通訊實驗室：

Tel: 886-3-6668565

Fax: 886-3-6668323

華亞 EMC / RF / Safety 實驗室：

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

您也可以在我们的網站內找到各實驗室的地圖。

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