

低功率射頻電機技術規範測試報告

報告編號:

RT180103E09

申請者

威聯通科技股份有限公司

產品名稱

QNAP 無線網路卡

型號

QWA-AC2600

製造廠商

QNAP SYSTEMS, INC.

商標或廠牌

QNAP

該產品樣品試驗

國家通訊傳播委員會低功率射頻電機技術規範

依據之試驗標準

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 新竹實驗室

日期 107 年 03 月 15 日

報告簽署人簽章:

陳瓊美



目 錄

報告發行紀錄	5
1 低功率射頻電機量測記錄表	7
2 一般敘述	8
2.1 待測設備	8
2.2 輔助測試之週邊設備描述	16
2.3 測試架構圖	16
3 適用規範	17
3.1 規範要求	17
3.2 限制使用之頻帶	20
2.4 GHz 頻段測試紀錄結果	21
4 帶外發射之量測	21
4.1 適用標準	21
4.2 量測方法	21
4.3 量測儀器	22
4.4 測試配置	23
4.5 場強度之計算	23
4.6 量測結果	24
4.6.1 發射諧波	24
4.6.2 接收諧波	48
4.6.3 其它不必要之訊號	54
4.7 量測結果判定	55
4.8 配置照片	55
5 電源線傳導干擾之量測	56
5.1 適用標準	56
5.2 量測方法	56
5.3 量測儀器	56
5.4 測試配置	57
5.5 干擾值之計算	57
5.6 量測結果	58
5.7 量測結果判定	59
5.8 配置照片	59
6 6 dB 頻寬之要求	60
6.1 適用標準	60
6.2 量測方法	60
6.3 量測儀器	60
6.4 測試配置	60
6.5 量測結果	61
6.6 量測結果判定	62
7 傳導輸出功率之量測	63
7.1 適用標準	63
7.2 量測方法	63
7.3 量測儀器	63
7.4 測試配置	63
7.5 量測結果	64
7.6 量測結果判定	65

8	功率頻譜密度之量測	66
8.1	適用標準	66
8.2	量測方法	66
8.3	量測儀器	66
8.4	測試配置	66
8.5	量測結果	67
8.6	量測結果判定	70
	U-NII 頻段測試紀錄結果	71
9	帶外發射之量測	71
9.1	適用標準	71
9.2	量測方法	71
9.3	量測儀器	71
9.4	帶外發射之測試配置	71
9.5	場強度之計算	71
9.6	帶外發射之量測結果	73
9.6.1	發射諧波	73
9.6.2	接收諧波	109
9.6.3	其它不必要之訊號	121
9.7	量測結果判定	122
9.8	輻射量測之配置照片	122
10	電源線傳導干擾之量測	123
10.1	適用標準	123
10.2	量測方法	123
10.3	量測儀器	123
10.4	測試配置	123
10.5	干擾值之計算	123
10.6	量測結果	124
10.7	量測結果判定	125
10.8	配置照片	125
11	傳導輸出功率量測及發射頻寬之要求	126
11.1	適用標準	126
11.2	量測方法	126
11.3	量測儀器	126
11.4	測試配置	126
11.5	峰值傳導輸出功率之量測結果	127
11.6	量測結果判定	132
12	功率頻譜密度之量測	133
12.1	適用標準	133
12.2	量測方法	133
12.3	量測功率頻譜密度之儀器	134
12.4	功率頻譜密度之測試配置	134
12.5	功率頻譜密度之量測結果	135
12.6	量測結果判定	146
13	6 dB 頻寬之要求	147
13.1	適用標準	147
13.2	量測方法	147
13.3	量測儀器	147
13.4	測試配置	147

13.5	量測結果	148
13.6	量測結果判定	151
14	Radiated Out of Band Emisison (OOBE) Measurement (For U-NII-3 Band).....	152
15	檢測實驗室基本資料	170

報告發行紀錄

Issue No.	Description	Date Issued
RT180103E09	Original release.	107 年 03 月 15 日

證 明 書

產 品 名 稱：QNAP 無線網路卡
商 標：QNAP
型 號：QWA-AC2600
申 請 者：威聯通科技股份有限公司
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(型號：QWA-AC2600)，
收件日期 107 年 01 月 03 日，於 107 年 02 月 09 日至 27 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： 吳 茲 臻， 日 期： 107 年 03 月 15 日
吳 茲 臻 / 專員

審 核 者： 陳 瓊 美， 日 期： 107 年 03 月 15 日
陳 瓊 美 / 經理

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：300 新竹市科學工業園區力行一路 1 號 E-2

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： 威聯通科技股份有限公司

製造廠商： QNAP SYSTEMS, INC.

申請廠商地址： 新北市汐止區中興路 22 號 2 樓

廠牌： QNAP

產品名稱： QNAP 無線網路卡

型號： QWA-AC2600

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 新竹實驗室

量測單位地址： 300 新竹市科學工業園區力行一路 1 號 E-2

量測單位認可編號： TAF 2022

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

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

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

2 一般敘述

2.1 待測設備

產品名稱：	QNAP 無線網路卡
型號：	QWA-AC2600
額定電源：	DC 3.3V from host equipment
調變方式：	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
調變技術：	DSSS, OFDM
傳輸速率：	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps
載波頻率：	2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.18~ 5.24GHz, 5.745 ~ 5.825GHz
頻道數：	2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20: 11 802.11n (HT40), VHT40: 7 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 9 802.11n (HT40), 802.11ac (VHT40): 4 802.11ac (VHT80): 2
發射功率：	2.4GHz: CDD Mode: 29.86dBm Beamforming Mode: 27.96 dBm Master Mode CDD Mode: 5.18 ~ 5.24GHz: 29.76 dBm 5.745 ~ 5.825GHz: 29.97 dBm Beamforming Mode: 5.18 ~ 5.24GHz: 27.70 dBm 5.745 ~ 5.825GHz: 27.66 dBm Client Mode CDD Mode: 5.18 ~ 5.24GHz: 23.92 dBm 5.745 ~ 5.825GHz: 29.97 dBm Beamforming Mode: 5.18 ~ 5.24GHz: 21.69 dBm 5.745 ~ 5.825GHz: 27.66 dBm
天線種類：	見註
配件：	NA

Note:

1. 同一時間發射條件如下:

Condition	Technology	
1	WLAN 2.4GHz	WLAN 5GHz

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. 此待測設備搭配測試的天線，其資料如下:

Antenna Set	Chain No.	Model No.	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	*Cable Loss(dB)	excluding cable loss Antenna Gain(dBi)
1	0	98612PRSX000	1.93	2.4~2.4835	Dipole	R-SMA	1.1	3.03
			2.35	5.15~5.85			2.15	4.5
	1	98612PRSX000	1.79	2.4~2.4835	Dipole	R-SMA	1.24	3.03
			2.16	5.15~5.85			2.34	4.5
	2	98612PRSX000	1.94	2.4~2.4835	Dipole	R-SMA	1.09	3.03
			2.31	5.15~5.85			2.19	4.5
	3	98612PRSX000	1.92	2.4~2.4835	Dipole	R-SMA	1.11	3.03
			2.27	5.15~5.85			2.23	4.5

3. 此設備透過軟體功能可支援於 Master 模式或是 Client 模式應用類別。

4. 此待測物之技術的種類為 4TX / 4RX 之組合。

2.4GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11b	1 ~ 11Mbps	4TX	4RX
802.11g	6 ~ 54Mbps	4TX	4RX
802.11n (HT20)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
802.11n (HT40)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
5GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11a	6 ~ 54Mbps	4TX	4RX
802.11n (HT20)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
802.11n (HT40)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
802.11ac (VHT20)	MCS0~8 Nss=1	4TX	4RX
	MCS0~8 Nss=2	4TX	4RX
	MCS0~9 Nss=3	4TX	4RX
	MCS0~8 Nss=4	4TX	4RX
802.11ac (VHT40)	MCS0~9 Nss=1	4TX	4RX
	MCS0~9 Nss=2	4TX	4RX
	MCS0~9 Nss=3	4TX	4RX
	MCS0~9 Nss=4	4TX	4RX
802.11ac (VHT80)	MCS0~9 Nss=1	4TX	4RX
	MCS0~9 Nss=2	4TX	4RX
	MCS0~9 Nss=3	4TX	4RX
	MCS0~9 Nss=4	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.
2. 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.
3. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report

5. 此報告中，場強輻射量測經過評估後以下列測試模式進行最終量測。

量測項目	發射	接收
2412 ~ 2462MHz		
1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 VHT20: Ch 1, 6, 11 VHT40: Ch 3, 6, 9	Ch 1, 6, 11
其它不必要之訊號	802.11g : Ch 6	Ch 6
5180 ~ 5240MHz		
1GHz 以上量測	802.11a: Ch 36, 40, 48 802.11ac (VHT20): Ch 36, 40, 48 802.11ac (VHT40): Ch 38, 46 802.11ac (VHT80): Ch 42	Ch 36, 40, 48
5745 ~ 5825MHz		
1GHz 以上量測	802.11a: Ch 149, 157, 165 802.11ac (VHT20): Ch 149, 157, 165 802.11ac (VHT40): Ch 151, 159 802.11ac (VHT80): Ch 155	Ch 149, 157, 165
其它不必要之訊號	802.11ac (VHT20): Ch 149	Ch 149

*電源線傳導干擾量測經過評估後，2412 ~ 2462MHz以802.11g : Ch 6測試模式進行最終量測，5180 ~ 5240MHz & 5745 ~ 5825MHz以802.11ac (VHT20): Ch149測試模式進行最終量測。

6. Duty cycle of test signal.

2.4GHz频段

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

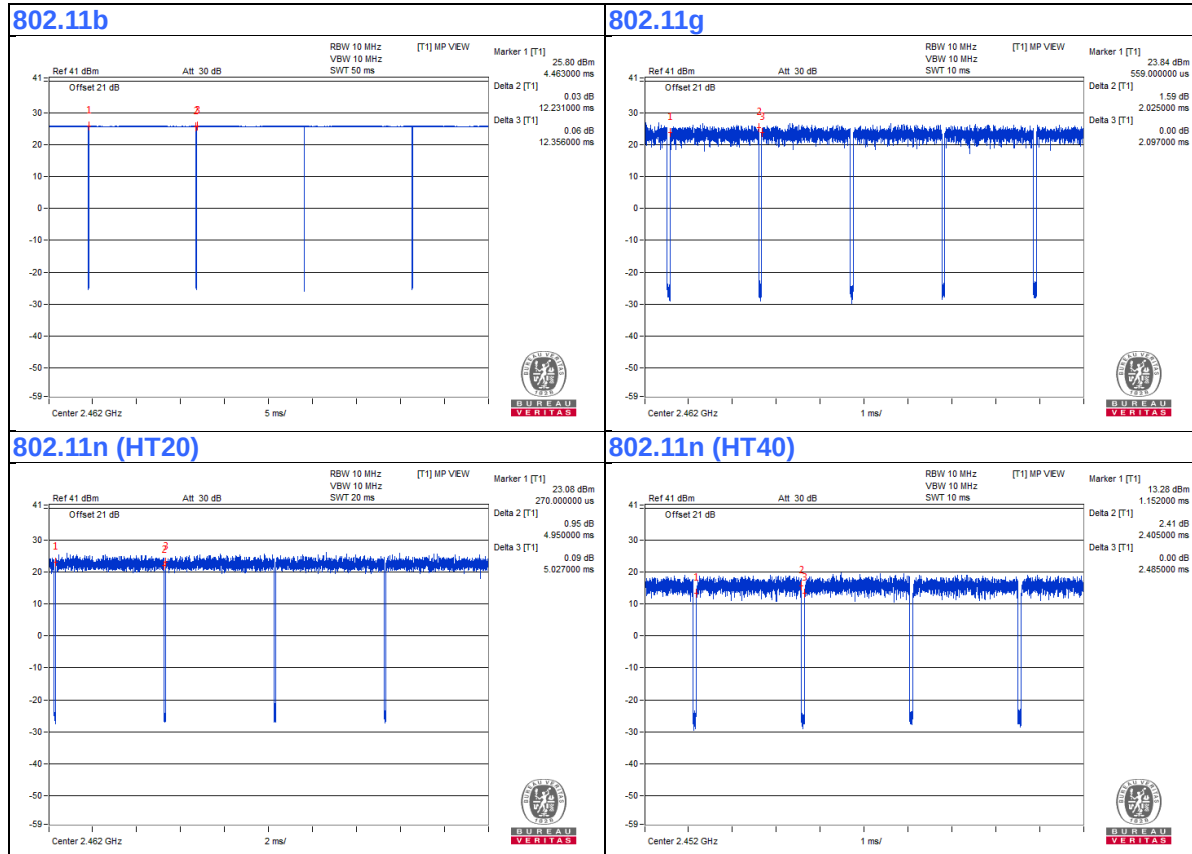
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11b: Duty cycle = $12.231 \text{ ms} / 12.356 \text{ ms} = 0.99$

802.11g: Duty cycle = $2.025 \text{ ms} / 2.097 \text{ ms} = 0.966$, Duty factor = $10 * \log(1/0.966) = 0.15$

802.11n (HT20): Duty cycle = $4.95 \text{ ms} / 5.027 \text{ ms} = 0.985$

802.11n (HT40): Duty cycle = $2.405 \text{ ms} / 2.485 \text{ ms} = 0.968$, Duty factor = $10 * \log(1/0.968) = 0.14$



5GHz 频段

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

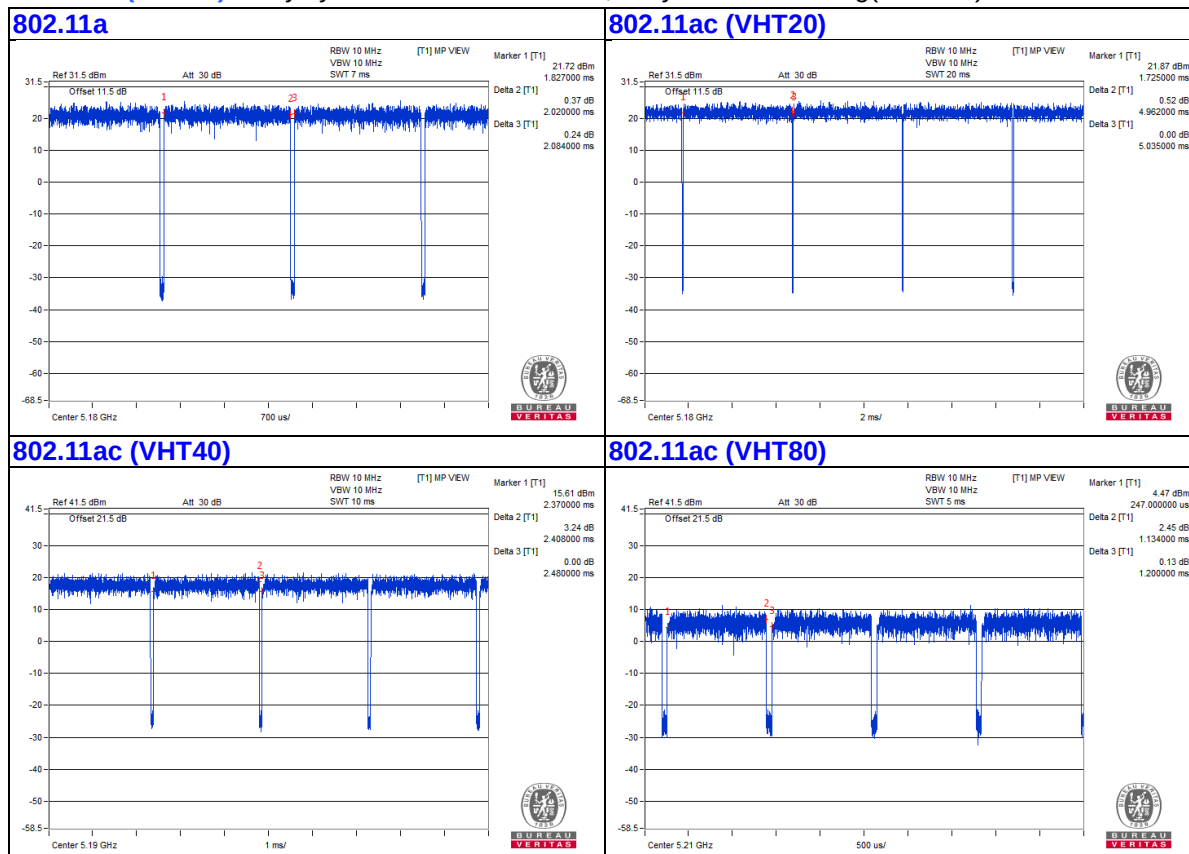
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = $2.02/2.084 = 0.969$, Duty factor = $10 * \log(1/0.969) = 0.14$

802.11ac (VHT20): Duty cycle = $4.962/5.035 = 0.986$

802.11ac (VHT40): Duty cycle = $2.409/2.48 = 0.971$, Duty factor = $10 * \log(1/0.971) = 0.13$

802.11ac (VHT80): Duty cycle = $1.134/1.2 = 0.945$, Duty factor = $10 * \log(1/0.945) = 0.25$



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	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
		165	5825

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

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

802.11ac (VHT80):

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

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:180103E09。

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。

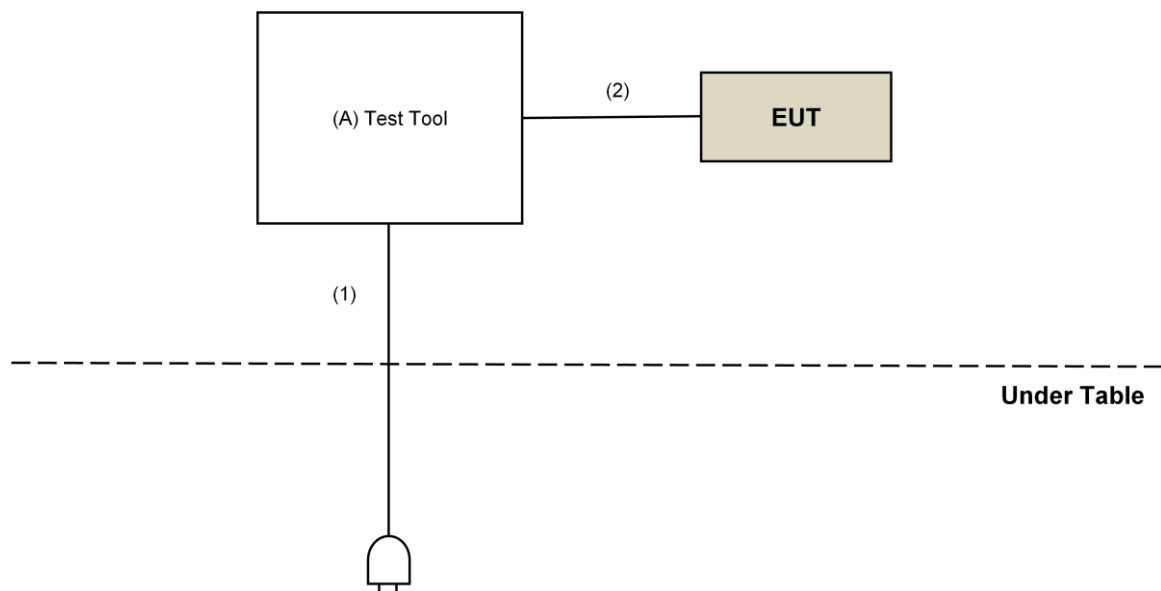
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Test Tool	NA	NA	NA	NA	Supplied by client

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	AC Cable	1	1.7	No	0	Provided by Lab
2.	Console Cable	1	0.2	No	0	Supplied by client

2.3 測試架構圖



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 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) ≤ -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) ≤ 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) ≤ 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) ≤ 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 ≥ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) ≤ -27 dBm/MHz；有關遮罩限制值詳圖 1。

在 5.725 GHz $\sim$ 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 $\sim$ 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。

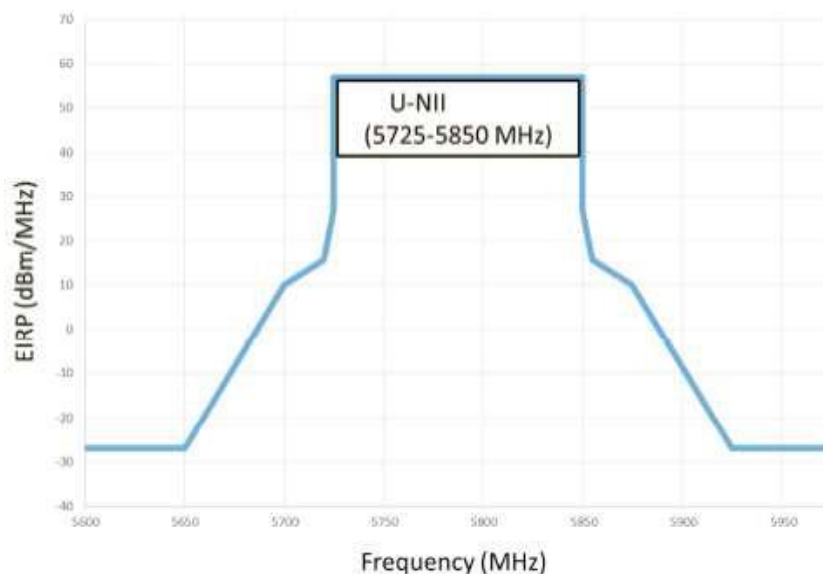


圖 1

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= 10log(天線陣列之單元數目)+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 5.725 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 5.725 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5.725 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。

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	

2.4 GHz 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.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010156	July 12, 2017	July 11, 2018
Pre-Amplifier ^(*) EMCI	EMC001340	980142	Feb. 09, 2018	Feb. 08, 2019
Loop Antenna ^(*) Electro-Metrics	EM-6879	264	Dec. 16, 2016	Dec. 15, 2018
RF Cable	5D-FB	LOOPCAB-001 LOOPCAB-002	Jan. 15, 2018	Jan. 14, 2019
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	May 06, 2017	May 05, 2018
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 29, 2017	Nov. 28, 2018
RF Cable	8D	966-3-1 966-3-2 966-3-3	Apr. 01, 2017	Mar. 31, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Oct. 03, 2017	Oct. 02, 2018
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160922 150317 150322	Jan. 29, 2018 Jan. 29, 2018 Jan. 29, 2018	Jan. 28, 2019 Jan. 28, 2019 Jan. 28, 2019
Spectrum Analyzer Keysight	N9030A	MY54490679	July 25, 2017	July 24, 2018
Pre-Amplifier EMCI	EMC184045SE	980386	Jan. 29, 2018	Jan. 28, 2019
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	EMC102-KM-KM-1200	160924	Jan. 29, 2018	Jan. 28, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

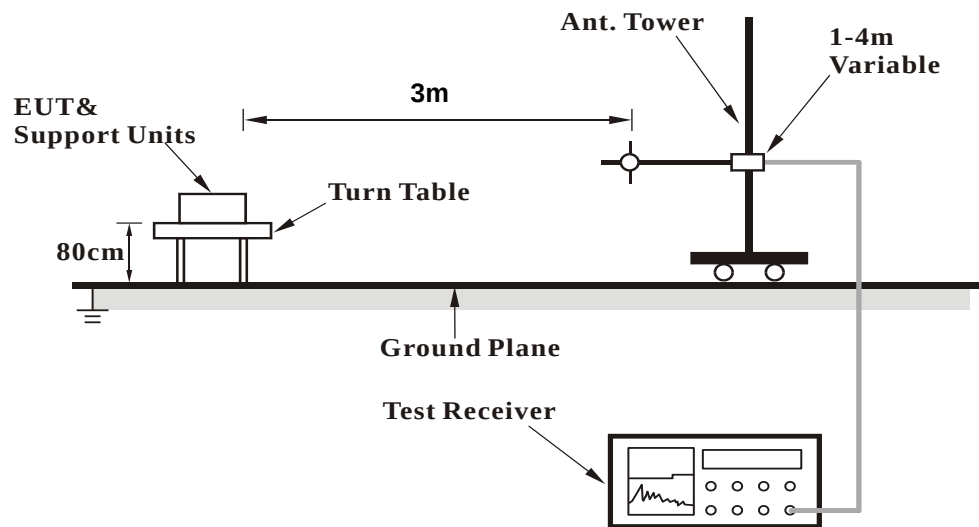
Note:

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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 3.
4. The CANADA Site Registration No. is 20331-1
5. Loop antenna was used for all emissions below 30 MHz.
6. 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.

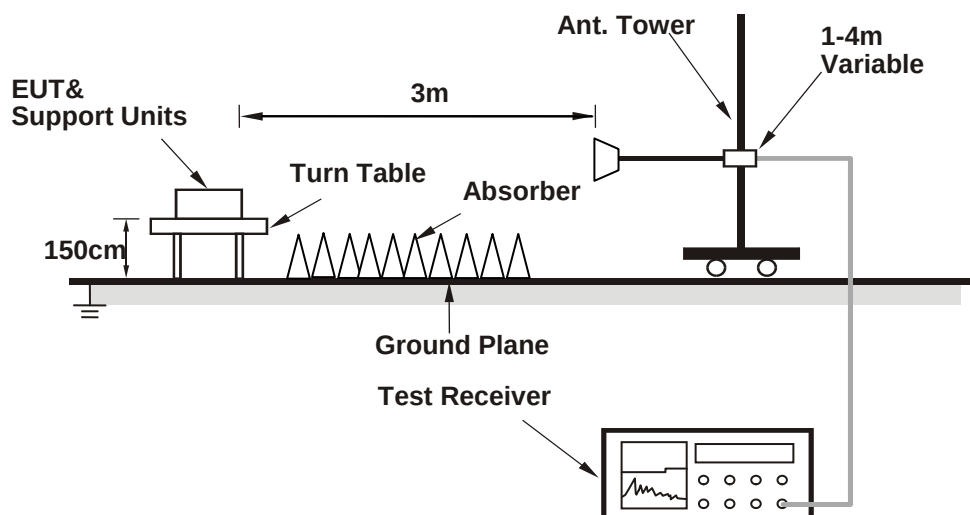
Measurement	Value
Radiated emissions (30MHz-1GHz)	5.53 dB
Radiated emissions (1GHz ~6GHz)	5.08 dB
Radiated emissions (6GHz ~18GHz)	4.98 dB
Radiated emissions (18GHz ~40GHz)	5.19 dB

4.4 測試配置

<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

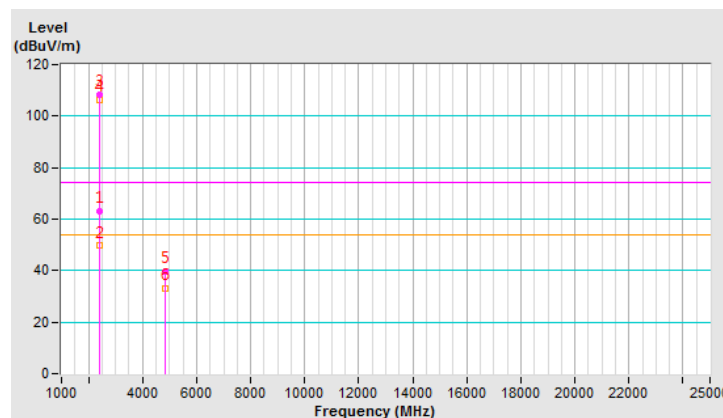
802.11b

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：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	62.9 PK	74.0	-11.1	1.28 H	122	64.6	-1.7
2	2390.00	49.6 AV	54.0	-4.4	1.28 H	122	51.3	-1.7
3	*2412.00	108.2 PK			1.19 H	114	110.0	-1.8
4	*2412.00	106.5 AV			1.19 H	114	108.3	-1.8
5	4824.00	39.6 PK	74.0	-34.4	1.39 H	4	36.5	3.1
6	4824.00	33.1 AV	54.0	-20.9	1.39 H	4	30.0	3.1
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

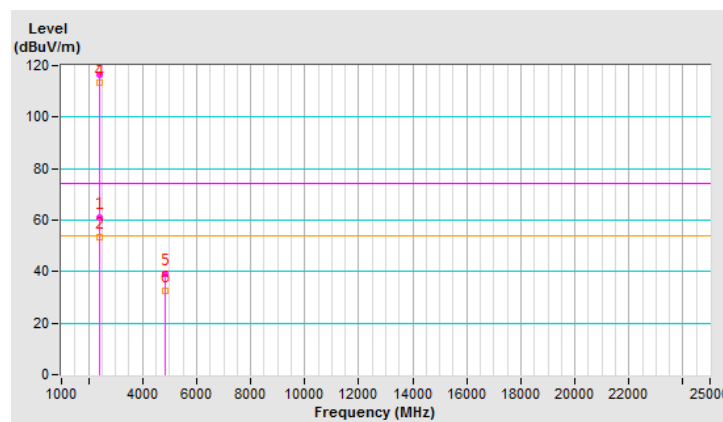


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	61.0 PK	74.0	-13.0	2.66 V	10	62.7	-1.7
2	2390.00	53.4 AV	54.0	-0.6	2.66 V	10	55.1	-1.7
3	*2412.00	116.4 PK			2.66 V	10	118.2	-1.8
4	*2412.00	113.2 AV			2.66 V	10	115.0	-1.8
5	4824.00	39.0 PK	74.0	-35.0	1.17 V	284	35.9	3.1
6	4824.00	32.5 AV	54.0	-21.5	1.17 V	284	29.4	3.1
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

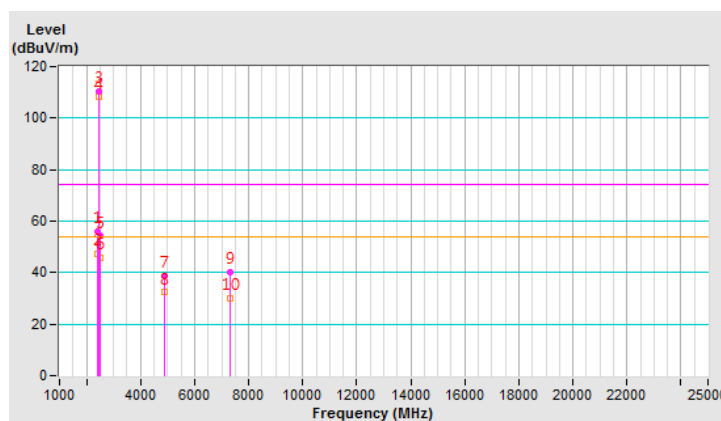


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	56.1 PK	74.0	-17.9	1.23 H	119	57.8	-1.7
2	2390.00	47.2 AV	54.0	-6.8	1.23 H	119	48.9	-1.7
3	*2437.00	110.4 PK			1.23 H	119	112.5	-2.1
4	*2437.00	108.1 AV			1.23 H	119	110.2	-2.1
5	2483.50	54.2 PK	74.0	-19.8	1.23 H	119	56.2	-2.0
6	2483.50	45.6 AV	54.0	-8.4	1.23 H	119	47.6	-2.0
7	4874.00	38.7 PK	74.0	-35.3	1.23 H	96	35.5	3.2
8	4874.00	32.3 AV	54.0	-21.7	1.23 H	96	29.1	3.2
9	7311.00	40.2 PK	74.0	-33.8	1.69 H	305	31.0	9.2
10	7311.00	30.1 AV	54.0	-23.9	1.69 H	305	20.9	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

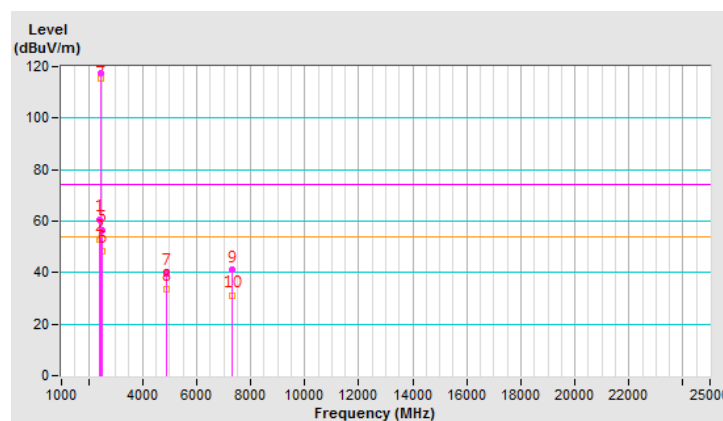


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	60.5 PK	74.0	-13.5	2.36 V	67	62.2	-1.7
2	2390.00	52.8 AV	54.0	-1.2	2.36 V	67	54.5	-1.7
3	*2437.00	117.5 PK			2.36 V	67	119.6	-2.1
4	*2437.00	115.3 AV			2.36 V	67	117.4	-2.1
5	2483.50	56.4 PK	74.0	-17.6	2.36 V	67	58.4	-2.0
6	2483.50	48.5 AV	54.0	-5.5	2.36 V	67	50.5	-2.0
7	4874.00	39.8 PK	74.0	-34.2	1.35 V	10	36.6	3.2
8	4874.00	33.4 AV	54.0	-20.6	1.35 V	10	30.2	3.2
9	7311.00	41.0 PK	74.0	-33.0	1.69 V	223	31.8	9.2
10	7311.00	31.2 AV	54.0	-22.8	1.69 V	223	22.0	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

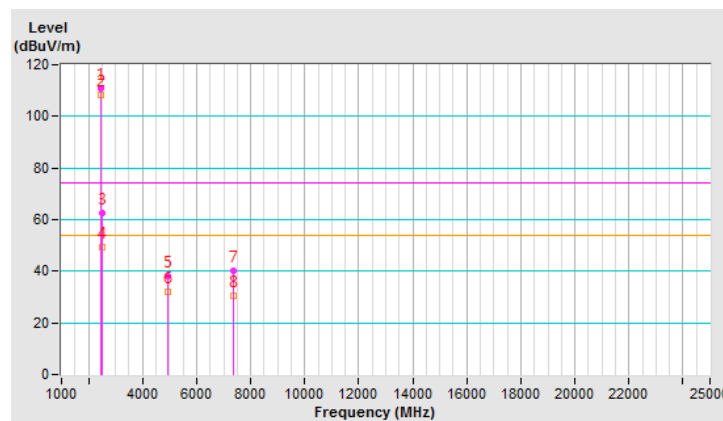


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	111.1 PK			1.24 H	277	113.1	-2.0
2	*2462.00	108.5 AV			1.24 H	277	110.5	-2.0
3	2483.50	62.6 PK	74.0	-11.4	1.24 H	277	64.6	-2.0
4	2483.50	49.5 AV	54.0	-4.5	1.24 H	277	51.5	-2.0
5	4924.00	38.0 PK	74.0	-36.0	1.21 H	128	34.7	3.3
6	4924.00	31.9 AV	54.0	-22.1	1.21 H	128	28.6	3.3
7	7386.00	40.3 PK	74.0	-33.7	2.41 H	292	30.9	9.4
8	7386.00	30.4 AV	54.0	-23.6	2.41 H	292	21.0	9.4
9	#9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	#14772.00	-	-	-	-	-	-	-
12	#17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

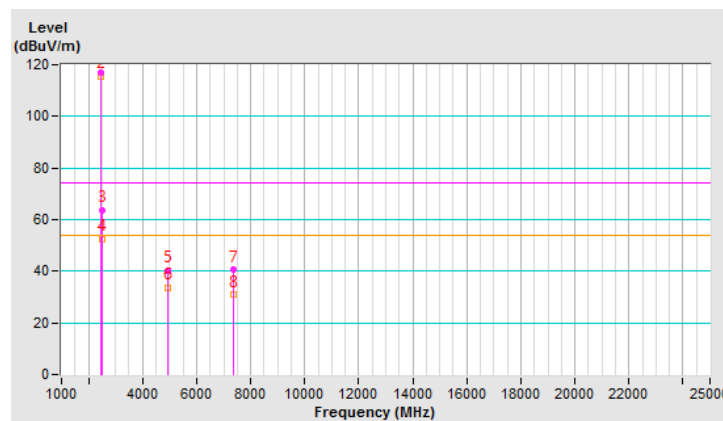


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	117.2 PK			1.54 V	87	119.2	-2.0
2	*2462.00	115.5 AV			1.54 V	87	117.5	-2.0
3	2483.50	63.6 PK	74.0	-10.4	1.54 V	87	65.6	-2.0
4	2483.50	52.5 AV	54.0	-1.5	1.54 V	87	54.5	-2.0
5	4924.00	40.2 PK	74.0	-33.8	1.34 V	241	36.9	3.3
6	4924.00	33.8 AV	54.0	-20.2	1.34 V	241	30.5	3.3
7	7386.00	40.5 PK	74.0	-33.5	1.73 V	339	31.1	9.4
8	7386.00	30.8 AV	54.0	-23.2	1.73 V	339	21.4	9.4
9	#9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	#14772.00	-	-	-	-	-	-	-
12	#17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



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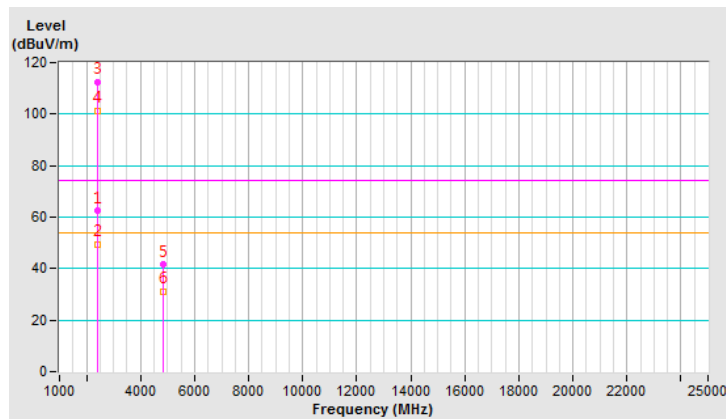
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	62.3 PK	74.0	-11.7	1.47 H	180	64.0	-1.7
2	2390.00	49.2 AV	54.0	-4.8	1.47 H	180	50.9	-1.7
3	*2412.00	112.6 PK			1.47 H	180	114.4	-1.8
4	*2412.00	101.2 AV			1.47 H	180	103.0	-1.8
5	4824.00	41.5 PK	74.0	-32.5	1.23 H	21	38.4	3.1
6	4824.00	30.9 AV	54.0	-23.1	1.23 H	21	27.8	3.1
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#24120.00	-	-	-	-	-	-	-

REMARKS:

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

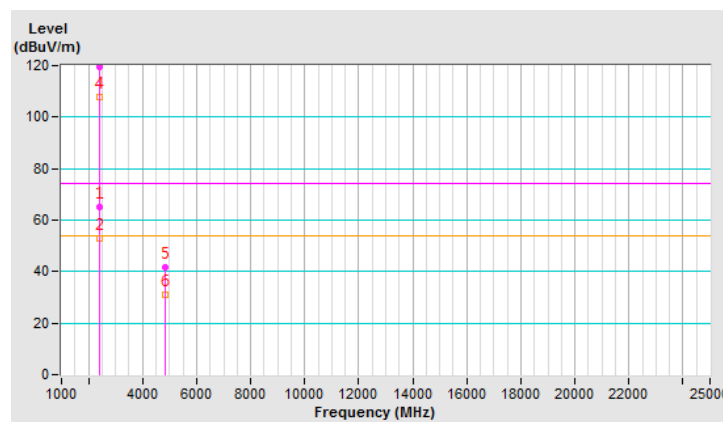


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	65.3 PK	74.0	-8.7	3.98 V	313	67.0	-1.7
2	2390.00	53.1 AV	54.0	-0.9	3.98 V	313	54.8	-1.7
3	*2412.00	119.5 PK			3.98 V	313	121.3	-1.8
4	*2412.00	107.7 AV			3.98 V	313	109.5	-1.8
5	4824.00	41.6 PK	74.0	-32.4	1.48 V	184	38.5	3.1
6	4824.00	31.1 AV	54.0	-22.9	1.48 V	184	28.0	3.1
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

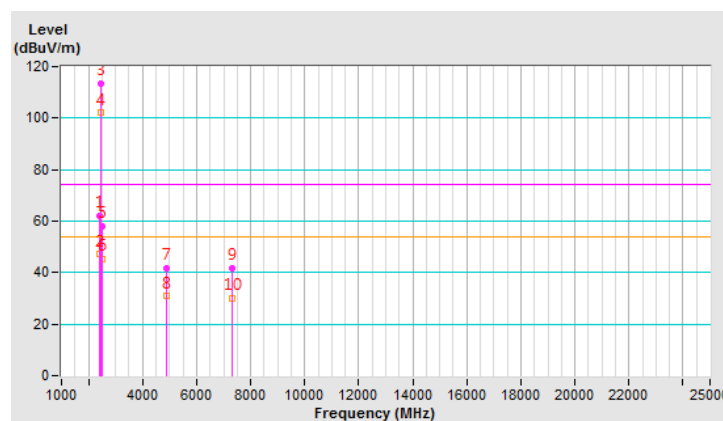


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	61.9 PK	74.0	-12.1	1.43 H	201	63.6	-1.7
2	2390.00	47.1 AV	54.0	-6.9	1.43 H	201	48.8	-1.7
3	*2437.00	113.6 PK			1.43 H	201	115.7	-2.1
4	*2437.00	102.0 AV			1.43 H	201	104.1	-2.1
5	2483.50	58.2 PK	74.0	-15.8	1.43 H	201	60.2	-2.0
6	2483.50	45.3 AV	54.0	-8.7	1.43 H	201	47.3	-2.0
7	4874.00	41.6 PK	74.0	-32.4	1.29 H	29	38.4	3.2
8	4874.00	30.8 AV	54.0	-23.2	1.29 H	29	27.6	3.2
9	7311.00	41.6 PK	74.0	-32.4	1.58 H	254	32.4	9.2
10	7311.00	30.1 AV	54.0	-23.9	1.58 H	254	20.9	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

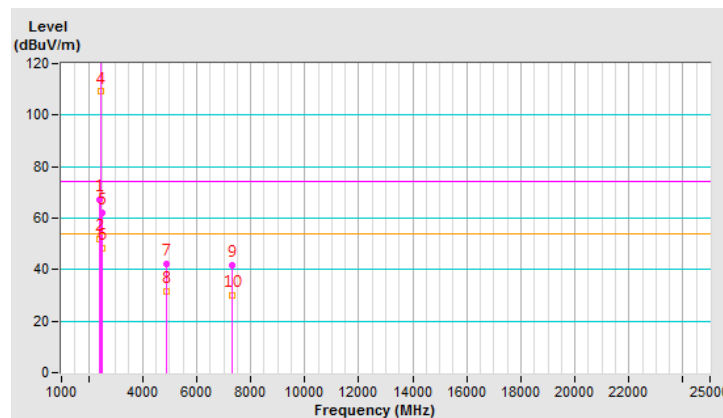


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	67.2 PK	74.0	-6.8	2.70 V	209	68.9	-1.7
2	2390.00	51.7 AV	54.0	-2.3	2.70 V	209	53.4	-1.7
3	*2437.00	121.5 PK			2.70 V	209	123.6	-2.1
4	*2437.00	109.1 AV			2.70 V	209	111.2	-2.1
5	2483.50	62.1 PK	74.0	-11.9	2.70 V	209	64.1	-2.0
6	2483.50	48.3 AV	54.0	-5.7	2.70 V	209	50.3	-2.0
7	4874.00	42.3 PK	74.0	-31.7	1.29 V	308	39.1	3.2
8	4874.00	31.6 AV	54.0	-22.4	1.29 V	308	28.4	3.2
9	7311.00	41.7 PK	74.0	-32.3	1.05 V	277	32.5	9.2
10	7311.00	30.2 AV	54.0	-23.8	1.05 V	277	21.0	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



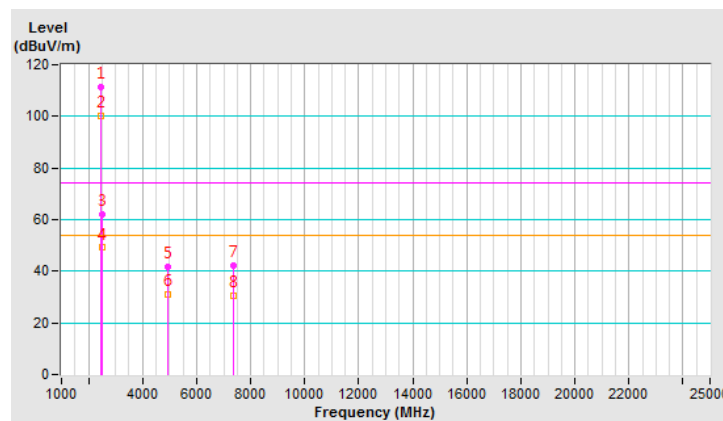
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	111.3 PK			1.49 H	204	113.3	-2.0
2	*2462.00	100.1 AV			1.49 H	204	102.1	-2.0
3	2483.50	62.1 PK	74.0	-11.9	1.49 H	204	64.1	-2.0
4	2483.50	49.1 AV	54.0	-4.9	1.49 H	204	51.1	-2.0
5	4924.00	41.8 PK	74.0	-32.2	1.37 H	171	38.5	3.3
6	4924.00	30.9 AV	54.0	-23.1	1.37 H	171	27.6	3.3
7	7386.00	42.3 PK	74.0	-31.7	1.33 H	98	32.9	9.4
8	7386.00	30.5 AV	54.0	-23.5	1.33 H	98	21.1	9.4
9	#9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	#14772.00	-	-	-	-	-	-	-
12	#17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

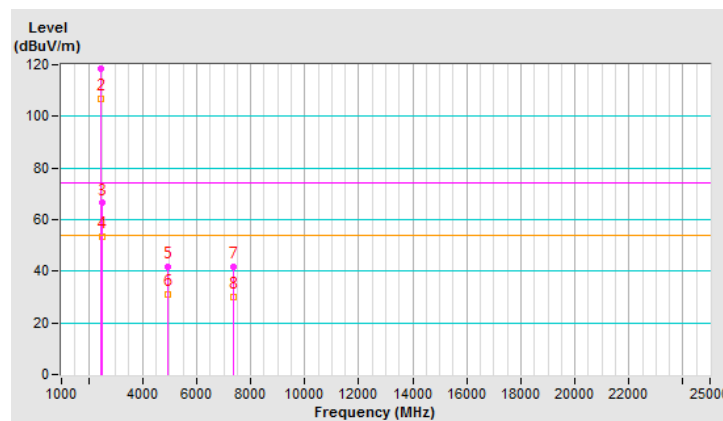


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	118.5 PK			2.46 V	93	120.5	-2.0
2	*2462.00	107.0 AV			2.46 V	93	109.0	-2.0
3	2483.50	66.4 PK	74.0	-7.6	2.46 V	93	68.4	-2.0
4	2483.50	53.4 AV	54.0	-0.6	2.46 V	93	55.4	-2.0
5	4924.00	41.8 PK	74.0	-32.2	1.34 V	177	38.5	3.3
6	4924.00	31.1 AV	54.0	-22.9	1.34 V	177	27.8	3.3
7	7386.00	41.9 PK	74.0	-32.1	2.15 V	262	32.5	9.4
8	7386.00	30.2 AV	54.0	-23.8	2.15 V	262	20.8	9.4
9	#9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	#14772.00	-	-	-	-	-	-	-
12	#17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



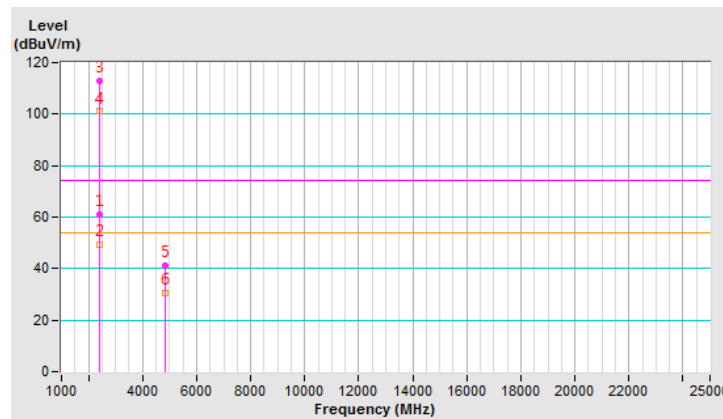
802.11n (HT20)

操作模式：	發射	調變技術：	OFDM
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：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	61.1 PK	74.0	-12.9	1.44 H	194	62.8	-1.7
2	2390.00	49.2 AV	54.0	-4.8	1.44 H	194	50.9	-1.7
3	*2412.00	112.8 PK			1.44 H	194	114.6	-1.8
4	*2412.00	101.0 AV			1.44 H	194	102.8	-1.8
5	4824.00	41.4 PK	74.0	-32.6	1.67 H	229	38.3	3.1
6	4824.00	30.6 AV	54.0	-23.4	1.67 H	229	27.5	3.1
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

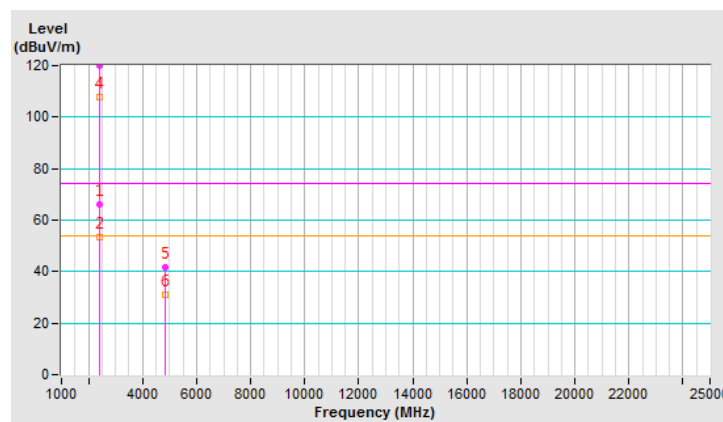


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	66.2 PK	74.0	-7.8	3.98 V	321	67.9	-1.7
2	2390.00	53.6 AV	54.0	-0.4	3.98 V	321	55.3	-1.7
3	*2412.00	119.9 PK			3.98 V	321	121.7	-1.8
4	*2412.00	107.8 AV			3.98 V	321	109.6	-1.8
5	4824.00	41.7 PK	74.0	-32.3	1.69 V	128	38.6	3.1
6	4824.00	31.0 AV	54.0	-23.0	1.69 V	128	27.9	3.1
7	#7236.00	-	-	-	-	-	-	-
8	#9648.00	-	-	-	-	-	-	-
9	12060.00	-	-	-	-	-	-	-
10	14472.00	-	-	-	-	-	-	-
11	#16884.00	-	-	-	-	-	-	-
12	19296.00	-	-	-	-	-	-	-
13	#21708.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

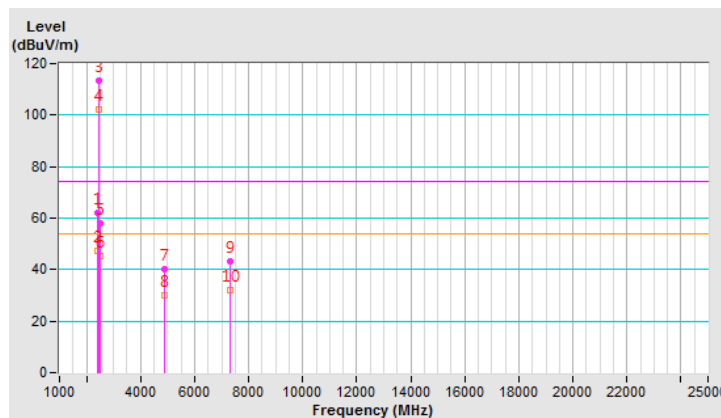


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	62.1 PK	74.0	-11.9	1.40 H	185	63.8	-1.7
2	2390.00	47.5 AV	54.0	-6.5	1.40 H	185	49.2	-1.7
3	*2437.00	113.5 PK			1.40 H	185	115.6	-2.1
4	*2437.00	102.3 AV			1.40 H	185	104.4	-2.1
5	2483.50	57.8 PK	74.0	-16.2	1.40 H	185	59.8	-2.0
6	2483.50	45.2 AV	54.0	-8.8	1.40 H	185	47.2	-2.0
7	4874.00	40.2 PK	74.0	-33.8	1.89 H	347	37.0	3.2
8	4874.00	30.1 AV	54.0	-23.9	1.89 H	347	26.9	3.2
9	7311.00	43.2 PK	74.0	-30.8	1.42 H	154	34.0	9.2
10	7311.00	32.0 AV	54.0	-22.0	1.42 H	154	22.8	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

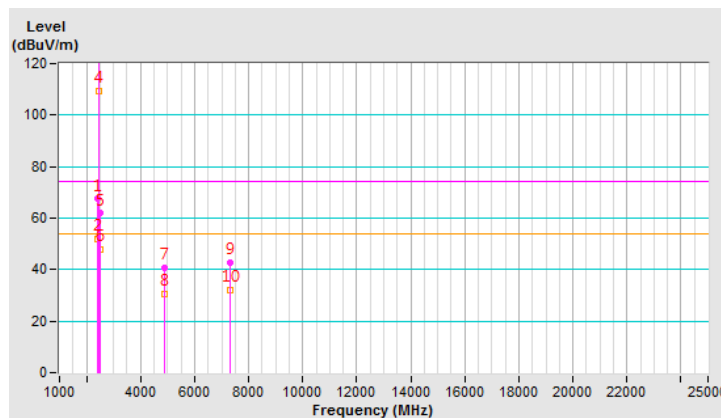


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	67.4 PK	74.0	-6.6	2.75 V	210	69.1	-1.7
2	2390.00	51.8 AV	54.0	-2.2	2.75 V	210	53.5	-1.7
3	*2437.00	121.9 PK			2.75 V	210	124.0	-2.1
4	*2437.00	109.3 AV			2.75 V	210	111.4	-2.1
5	2483.50	61.8 PK	74.0	-12.2	2.75 V	210	63.8	-2.0
6	2483.50	48.0 AV	54.0	-6.0	2.75 V	210	50.0	-2.0
7	4874.00	40.8 PK	74.0	-33.2	2.88 V	97	37.6	3.2
8	4874.00	30.5 AV	54.0	-23.5	2.88 V	97	27.3	3.2
9	7311.00	42.8 PK	74.0	-31.2	2.33 V	156	33.6	9.2
10	7311.00	31.9 AV	54.0	-22.1	2.33 V	156	22.7	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

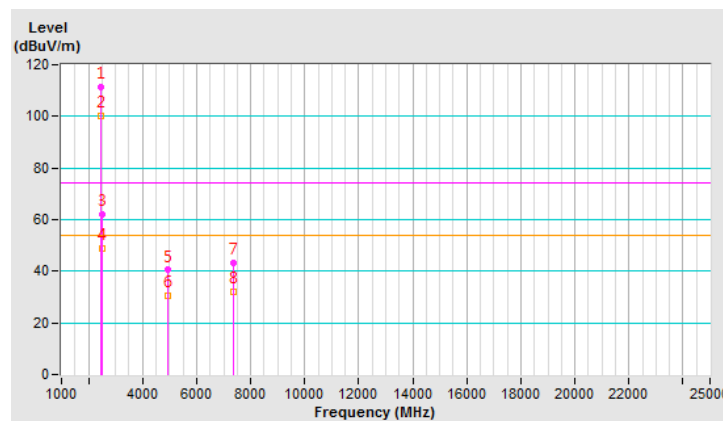


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	111.3 PK			1.14 H	298	113.3	-2.0
2	*2462.00	100.2 AV			1.14 H	298	102.2	-2.0
3	2483.50	62.0 PK	74.0	-12.0	1.14 H	298	64.0	-2.0
4	2483.50	48.7 AV	54.0	-5.3	1.14 H	298	50.7	-2.0
5	4924.00	40.5 PK	74.0	-33.5	2.30 H	184	37.2	3.3
6	4924.00	30.4 AV	54.0	-23.6	2.30 H	184	27.1	3.3
7	7386.00	43.4 PK	74.0	-30.6	2.04 H	168	34.0	9.4
8	7386.00	32.1 AV	54.0	-21.9	2.04 H	168	22.7	9.4
9	#9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	#14772.00	-	-	-	-	-	-	-
12	#17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

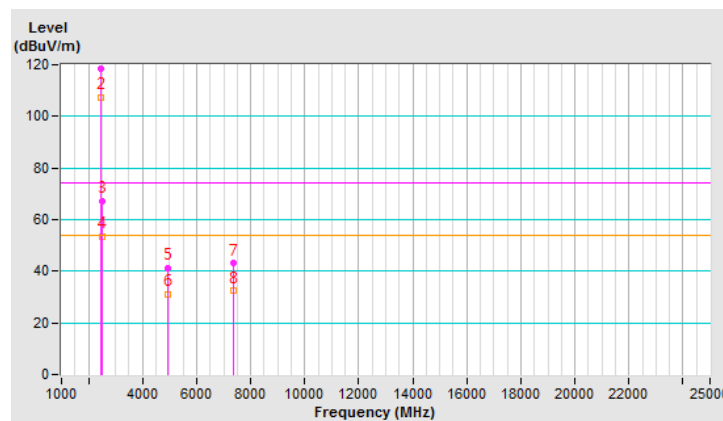


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	118.7 PK			2.48 V	96	120.7	-2.0
2	*2462.00	107.3 AV			2.48 V	96	109.3	-2.0
3	2483.50	67.2 PK	74.0	-6.8	2.48 V	96	69.2	-2.0
4	2483.50	53.5 AV	54.0	-0.5	2.48 V	96	55.5	-2.0
5	4924.00	41.3 PK	74.0	-32.7	2.83 V	103	38.0	3.3
6	4924.00	30.9 AV	54.0	-23.1	2.83 V	103	27.6	3.3
7	7386.00	43.0 PK	74.0	-31.0	1.54 V	128	33.6	9.4
8	7386.00	32.3 AV	54.0	-21.7	1.54 V	128	22.9	9.4
9	#9848.00	-	-	-	-	-	-	-
10	12310.00	-	-	-	-	-	-	-
11	#14772.00	-	-	-	-	-	-	-
12	#17234.00	-	-	-	-	-	-	-
13	19696.00	-	-	-	-	-	-	-
14	22158.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



802.11n (HT40)

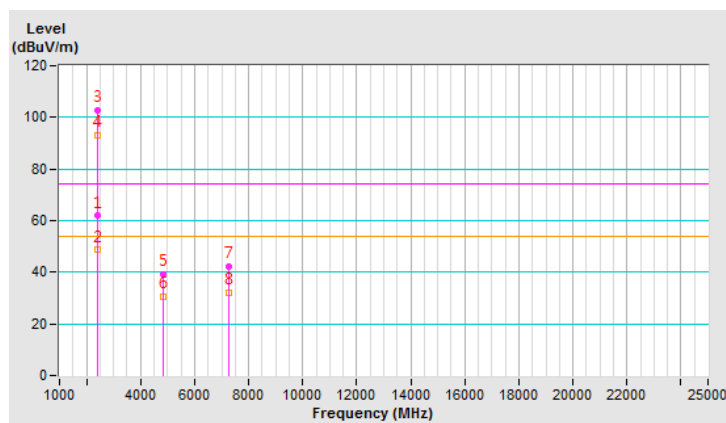
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	61.8 PK	74.0	-12.2	1.50 H	204	63.5	-1.7
2	2390.00	48.6 AV	54.0	-5.4	1.50 H	204	50.3	-1.7
3	*2422.00	102.7 PK			1.50 H	204	104.7	-2.0
4	*2422.00	92.9 AV			1.50 H	204	94.9	-2.0
5	4844.00	39.3 PK	74.0	-34.7	1.17 H	286	36.2	3.1
6	4844.00	30.4 AV	54.0	-23.6	1.17 H	286	27.3	3.1
7	7266.00	42.1 PK	74.0	-31.9	1.45 H	159	32.9	9.2
8	7266.00	32.0 AV	54.0	-22.0	1.45 H	159	22.8	9.2
9	#9688.00	-	-	-	-	-	-	-
10	12110.00	-	-	-	-	-	-	-
11	#14532.00	-	-	-	-	-	-	-
12	#16954.00	-	-	-	-	-	-	-
13	19376.00	-	-	-	-	-	-	-
14	#21798.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

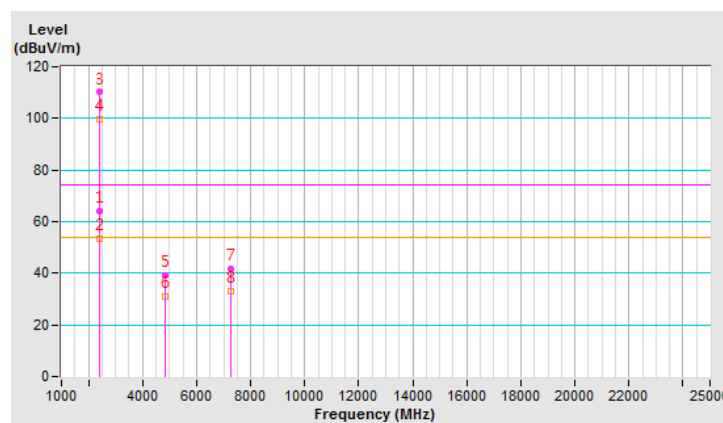


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	64.2 PK	74.0	-9.8	1.71 V	97	65.9	-1.7
2	2390.00	53.3 AV	54.0	-0.7	1.71 V	97	55.0	-1.7
3	*2422.00	110.1 PK			1.71 V	97	112.1	-2.0
4	*2422.00	99.9 AV			1.71 V	97	101.9	-2.0
5	4844.00	39.0 PK	74.0	-35.0	1.24 V	177	35.9	3.1
6	4844.00	30.9 AV	54.0	-23.1	1.24 V	177	27.8	3.1
7	7266.00	41.8 PK	74.0	-32.2	1.71 V	135	32.6	9.2
8	7266.00	33.1 AV	54.0	-20.9	1.71 V	135	23.9	9.2
9	#9688.00	-	-	-	-	-	-	-
10	12110.00	-	-	-	-	-	-	-
11	#14532.00	-	-	-	-	-	-	-
12	#16954.00	-	-	-	-	-	-	-
13	19376.00	-	-	-	-	-	-	-
14	#21798.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

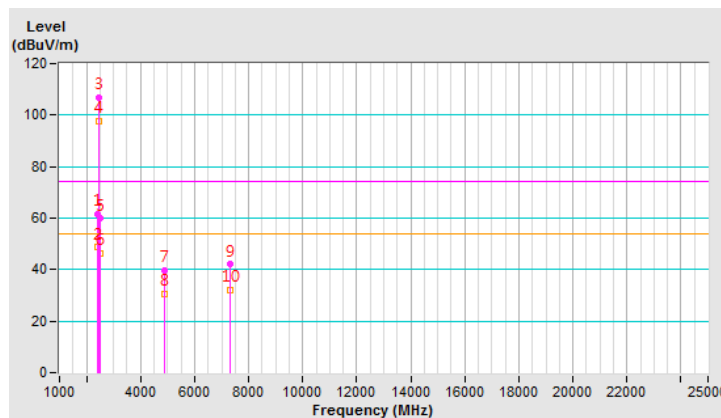


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	61.7 PK	74.0	-12.3	1.49 H	197	63.4	-1.7
2	2390.00	48.6 AV	54.0	-5.4	1.49 H	197	50.3	-1.7
3	*2437.00	106.9 PK			1.49 H	197	109.0	-2.1
4	*2437.00	97.8 AV			1.49 H	197	99.9	-2.1
5	2483.50	59.8 PK	74.0	-14.2	1.49 H	197	61.8	-2.0
6	2483.50	46.2 AV	54.0	-7.8	1.49 H	197	48.2	-2.0
7	4874.00	39.6 PK	74.0	-34.4	1.22 H	284	36.4	3.2
8	4874.00	30.6 AV	54.0	-23.4	1.22 H	284	27.4	3.2
9	7311.00	42.0 PK	74.0	-32.0	1.32 H	234	32.8	9.2
10	7311.00	31.9 AV	54.0	-22.1	1.32 H	234	22.7	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

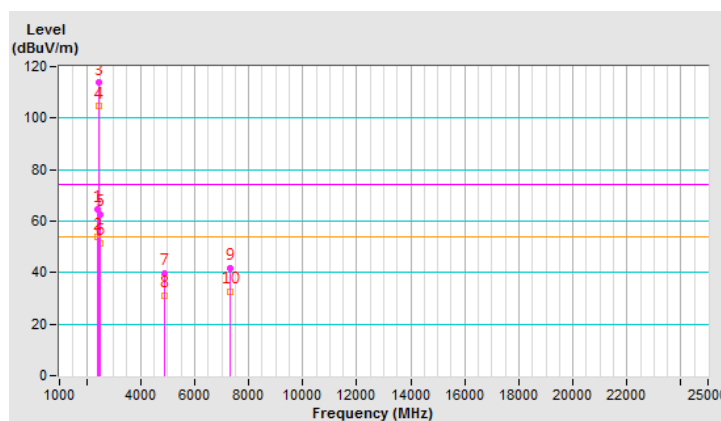


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	64.4 PK	74.0	-9.6	1.94 V	94	66.1	-1.7
2	2390.00	53.7 AV	54.0	-0.3	1.94 V	94	55.4	-1.7
3	*2437.00	113.7 PK			1.94 V	94	115.8	-2.1
4	*2437.00	104.5 AV			1.94 V	94	106.6	-2.1
5	2483.50	62.5 PK	74.0	-11.5	1.94 V	94	64.5	-2.0
6	2483.50	51.2 AV	54.0	-2.8	1.94 V	94	53.2	-2.0
7	4874.00	39.5 PK	74.0	-34.5	2.94 V	268	36.3	3.2
8	4874.00	31.2 AV	54.0	-22.8	2.94 V	268	28.0	3.2
9	7311.00	41.7 PK	74.0	-32.3	1.68 V	142	32.5	9.2
10	7311.00	32.7 AV	54.0	-21.3	1.68 V	142	23.5	9.2
11	#9748.00	-	-	-	-	-	-	-
12	12185.00	-	-	-	-	-	-	-
13	#14622.00	-	-	-	-	-	-	-
14	#17059.00	-	-	-	-	-	-	-
15	19496.00	-	-	-	-	-	-	-
16	#21933.00	-	-	-	-	-	-	-
17	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

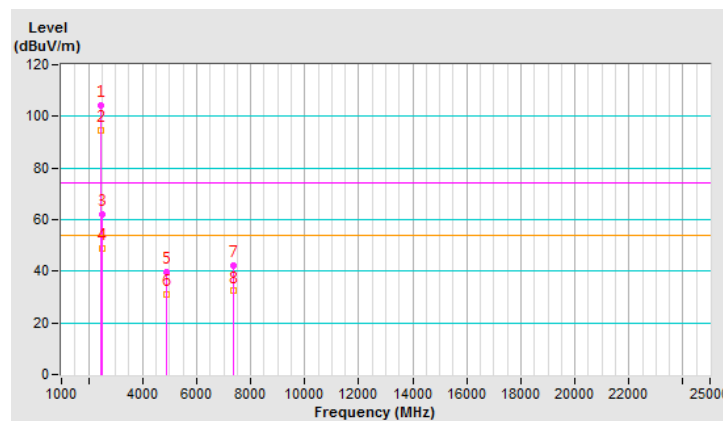


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	104.3 PK			1.45 H	207	106.3	-2.0
2	*2452.00	94.5 AV			1.45 H	207	96.5	-2.0
3	2483.50	62.2 PK	74.0	-11.8	1.45 H	207	64.2	-2.0
4	2483.50	48.8 AV	54.0	-5.2	1.45 H	207	50.8	-2.0
5	4904.00	39.8 PK	74.0	-34.2	1.21 H	152	36.5	3.3
6	4904.00	31.0 AV	54.0	-23.0	1.21 H	152	27.7	3.3
7	7356.00	42.2 PK	74.0	-31.8	1.98 H	236	32.8	9.4
8	7356.00	32.3 AV	54.0	-21.7	1.98 H	236	22.9	9.4
9	#9808.00	-	-	-	-	-	-	-
10	12260.00	-	-	-	-	-	-	-
11	#14712.00	-	-	-	-	-	-	-
12	#17164.00	-	-	-	-	-	-	-
13	19616.00	-	-	-	-	-	-	-
14	22068.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

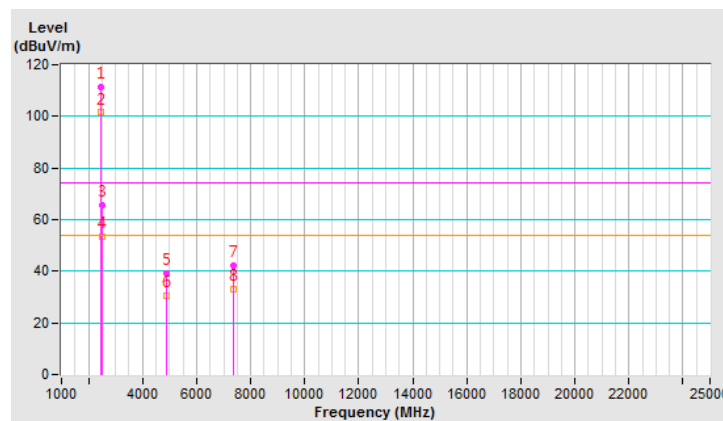


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	23℃	量測場地濕度：	66%RH
測試日期：	107 年 2 月 13 日	測試者：	江承舜

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	111.6 PK			1.51 V	96	113.6	-2.0
2	*2452.00	101.5 AV			1.51 V	96	103.5	-2.0
3	2483.50	65.8 PK	74.0	-8.2	1.51 V	96	67.8	-2.0
4	2483.50	53.5 AV	54.0	-0.5	1.51 V	96	55.5	-2.0
5	4904.00	39.3 PK	74.0	-34.7	1.25 V	158	36.0	3.3
6	4904.00	30.7 AV	54.0	-23.3	1.25 V	158	27.4	3.3
7	7356.00	42.2 PK	74.0	-31.8	1.35 V	49	32.8	9.4
8	7356.00	33.1 AV	54.0	-20.9	1.35 V	49	23.7	9.4
9	#9808.00	-	-	-	-	-	-	-
10	12260.00	-	-	-	-	-	-	-
11	#14712.00	-	-	-	-	-	-	-
12	#17164.00	-	-	-	-	-	-	-
13	19616.00	-	-	-	-	-	-	-
14	22068.00	-	-	-	-	-	-	-
15	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



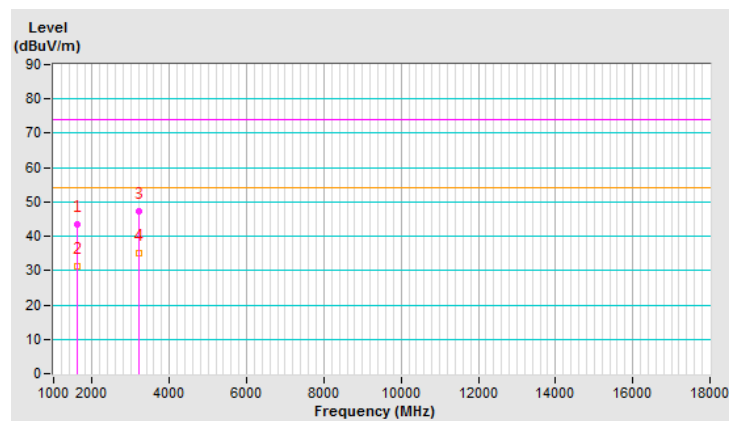
4.6.2 接收諧波

操作模式：	接收		
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	1608.00	43.4 PK	74.0	-30.6	1.60 H	146	48.4	-5.0
2	1608.00	31.1 AV	54.0	-22.9	1.60 H	146	36.1	-5.0
3	3216.00	47.1 PK	74.0	-26.9	1.56 H	97	47.5	-0.4
4	3216.00	35.2 AV	54.0	-18.8	1.56 H	97	35.6	-0.4

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

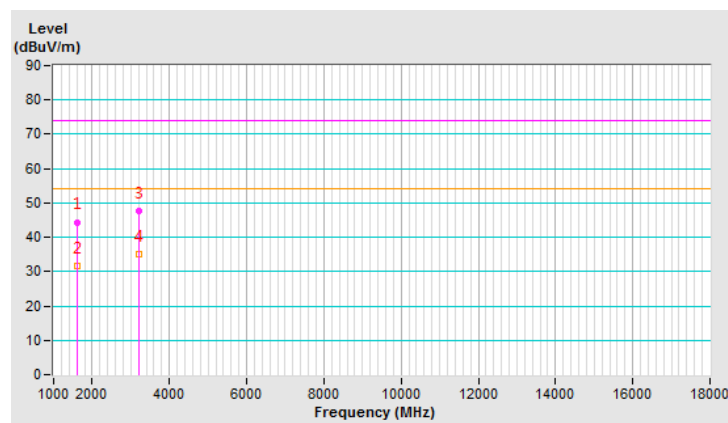


操作模式：	接收		
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	1608.00	44.4 PK	74.0	-29.6	1.61 V	195	49.4	-5.0
2	1608.00	31.7 AV	54.0	-22.3	1.61 V	195	36.7	-5.0
3	3216.00	47.6 PK	74.0	-26.4	1.80 V	188	48.0	-0.4
4	3216.00	35.0 AV	54.0	-19.0	1.80 V	188	35.4	-0.4

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

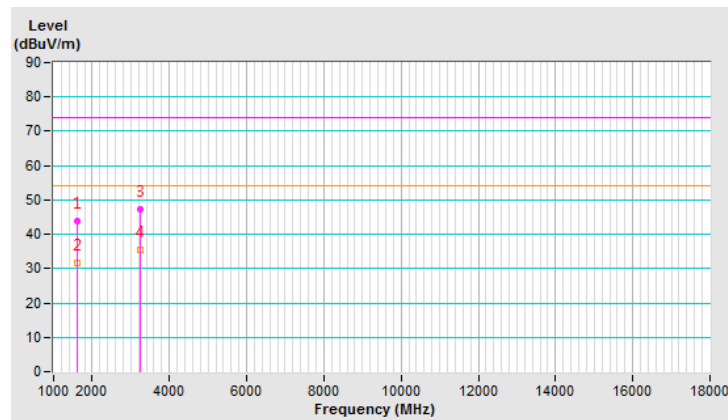


操作模式：	接收		
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	1624.67	44.0 PK	74.0	-30.0	1.57 H	145	49.1	-5.1
2	1624.67	31.7 AV	54.0	-22.3	1.57 H	145	36.8	-5.1
3	3249.33	47.4 PK	74.0	-26.6	1.63 H	80	47.9	-0.5
4	3249.33	35.4 AV	54.0	-18.6	1.63 H	80	35.9	-0.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

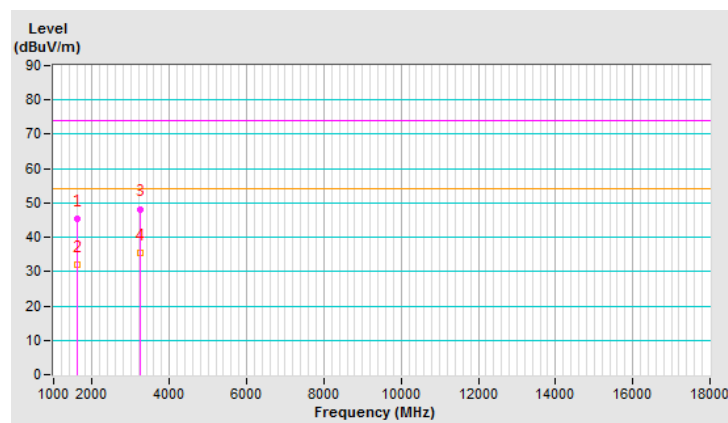


操作模式：	接收		
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	1624.67	45.2 PK	74.0	-28.8	1.58 V	212	50.3	-5.1
2	1624.67	31.9 AV	54.0	-22.1	1.58 V	212	37.0	-5.1
3	3249.33	48.2 PK	74.0	-25.8	1.83 V	204	48.7	-0.5
4	3249.33	35.6 AV	54.0	-18.4	1.83 V	204	36.1	-0.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

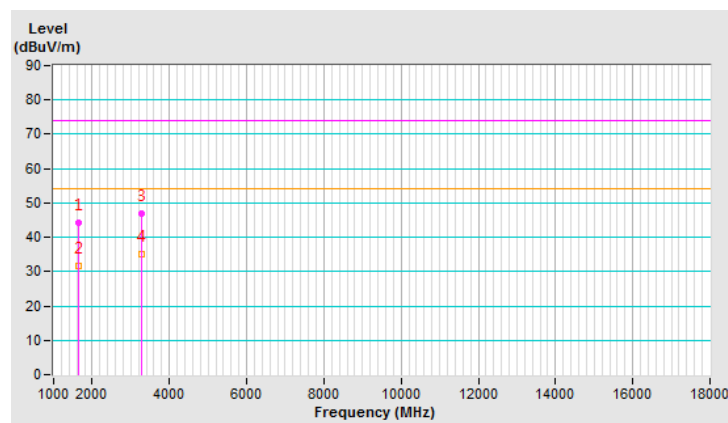


操作模式：	接收		
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	1641.33	44.2 PK	74.0	-29.8	1.63 H	170	49.3	-5.1
2	1641.33	31.7 AV	54.0	-22.3	1.63 H	170	36.8	-5.1
3	3282.67	47.0 PK	74.0	-27.0	1.56 H	96	47.5	-0.5
4	3282.67	35.1 AV	54.0	-18.9	1.56 H	96	35.6	-0.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

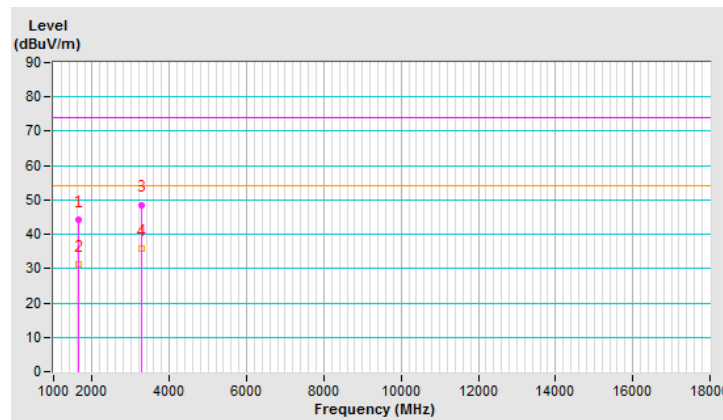


操作模式：	接收		
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	1641.33	44.2 PK	74.0	-29.8	1.55 V	191	49.3	-5.1
2	1641.33	31.3 AV	54.0	-22.7	1.55 V	191	36.4	-5.1
3	3282.67	48.6 PK	74.0	-25.4	1.84 V	184	49.1	-0.5
4	3282.67	35.8 AV	54.0	-18.2	1.84 V	184	36.3	-0.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



4.6.3 其它不必要之訊號

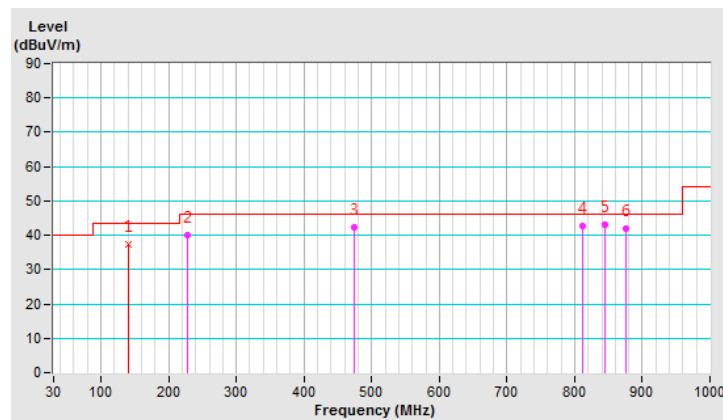
802.11g

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=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 9 日	測試者：	江承舜

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	141.53	37.3 QP	43.5	-6.2	2.00 H	201	45.5	-8.2
2	228.58	40.0 QP	46.0	-6.0	1.50 H	279	50.8	-10.8
3	475.06	42.4 QP	46.0	-3.6	2.00 H	3	45.7	-3.3
4	810.85	42.7 QP	46.0	-3.3	1.00 H	72	40.1	2.6
5	844.82	43.0 QP	46.0	-3.0	1.00 H	59	40.1	2.9
6	875.02	42.0 QP	46.0	-4.0	2.50 H	360	38.9	3.1

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.



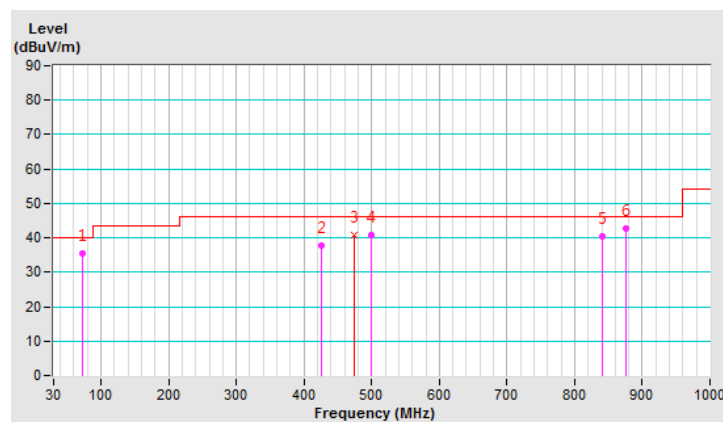
操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 9 日	測試者：	江承舜

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	72.75	35.4 QP	40.0	-4.6	1.00 V	247	46.2	-10.8
2	425.37	37.6 QP	46.0	-8.4	1.00 V	55	41.7	-4.1
3	475.04	40.8 QP	46.0	-5.2	1.00 V	75	44.1	-3.3
4	500.04	40.7 QP	46.0	-5.3	1.00 V	62	43.4	-2.7
5	840.17	40.3 QP	46.0	-5.7	1.50 V	247	37.5	2.8
6	875.04	42.8 QP	46.0	-3.2	2.00 V	247	39.7	3.1

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.


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

請參照 Test Setup Photos

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。

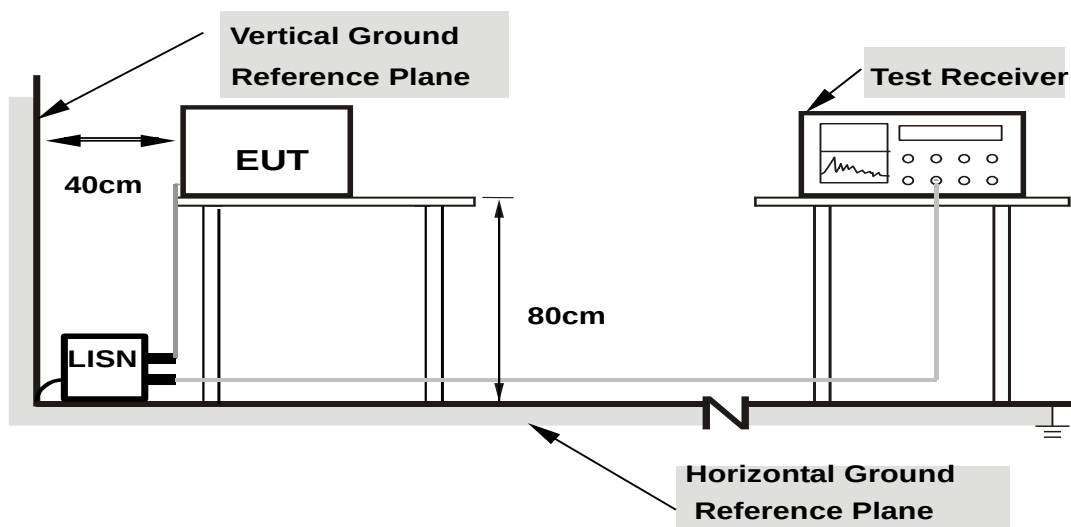
5.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Nov. 01, 2017	Oct. 31, 2018
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Nov. 15, 2017	Nov. 14, 2018
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 03, 2017	June 02, 2018
50 ohms Terminator	N/A	EMC-02	Sep. 22, 2017	Sep. 21, 2018
RF Cable	5D-FB	COCCAB-001	Sep. 29, 2017	Sep. 28, 2018
10 dB PAD Mini-Circuits	HAT-10+	CONATT-004	June 18, 2017	June 17, 2018
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
3. The measurement uncertainty is 2.98 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.

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

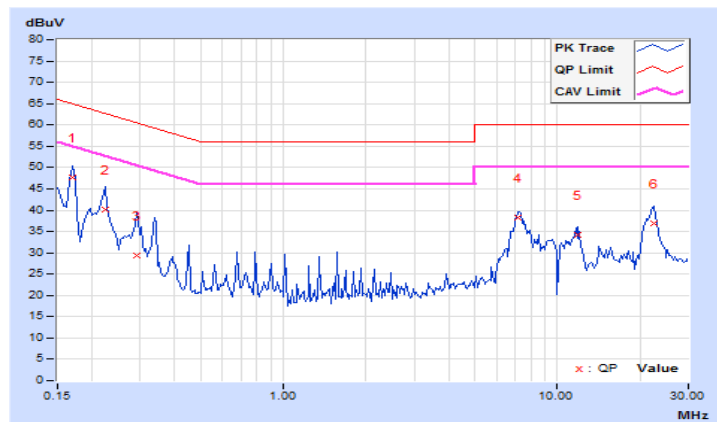
5.6 量測結果

操作模式	發射接收	測試日期	107 年 02 月 14 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		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.
0.16953	10.13	37.67	33.88	47.80	44.01	64.98	54.98	-17.18	-10.97
0.22422	10.15	29.99	23.40	40.14	33.55	62.66	52.66	-22.52	-19.11
0.29063	10.16	19.33	-1.86	29.49	8.30	60.51	50.51	-31.02	-42.21
7.21484	10.51	27.66	18.54	38.17	29.05	60.00	50.00	-21.83	-20.95
11.87891	10.75	23.42	15.14	34.17	25.89	60.00	50.00	-25.83	-24.11
22.47266	11.24	25.55	8.44	36.79	19.68	60.00	50.00	-23.21	-30.32

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.

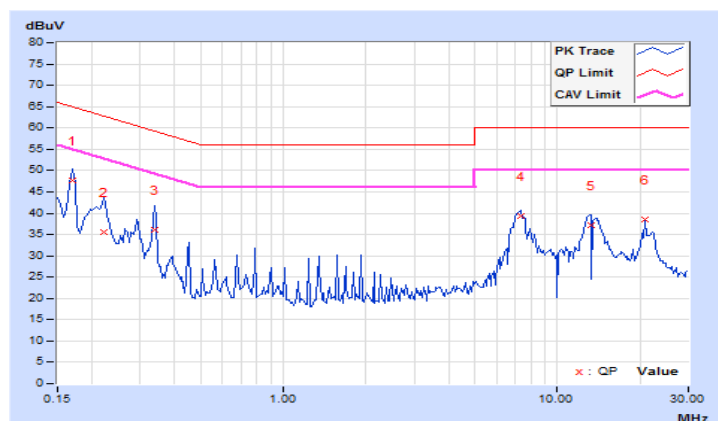


操作模式	發射接收	測試日期	107 年 02 月 09 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		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.
0.16953	10.04	37.59	34.08	47.63	44.12	64.98	54.98	-17.35	-10.86
0.22031	10.04	25.53	17.77	35.57	27.81	62.81	52.81	-27.24	-25.00
0.33750	10.07	26.03	17.27	36.10	27.34	59.26	49.26	-23.16	-21.92
7.31862	10.38	28.89	26.03	39.27	36.41	60.00	50.00	-20.73	-13.59
13.18750	10.67	26.42	12.70	37.09	23.37	60.00	50.00	-22.91	-26.63
20.88281	11.02	27.62	23.85	38.64	34.87	60.00	50.00	-21.36	-15.13

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

請參照 Test Setup Photos

6 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

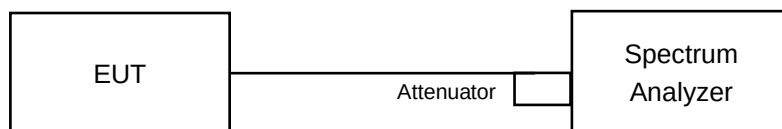
- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 計算最大輸出功率峰值減 6dB 的最大頻率範圍。

6.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	July 1, 2017	June 30, 2018

NOTE: 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

6.4 測試配置



6.5 量測結果

操作模式	發射	測試日期	107 年 02 月 27 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林俊鈞		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	8.07	8.10	8.55	8.59	0.5	Pass
6	2437	8.07	8.11	8.62	9.07	0.5	Pass
11	2462	8.09	8.55	8.62	8.63	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	16.38	16.39	16.39	16.39	0.5	Pass
6	2437	16.36	16.37	16.38	16.38	0.5	Pass
11	2462	16.36	16.35	16.37	16.37	0.5	Pass

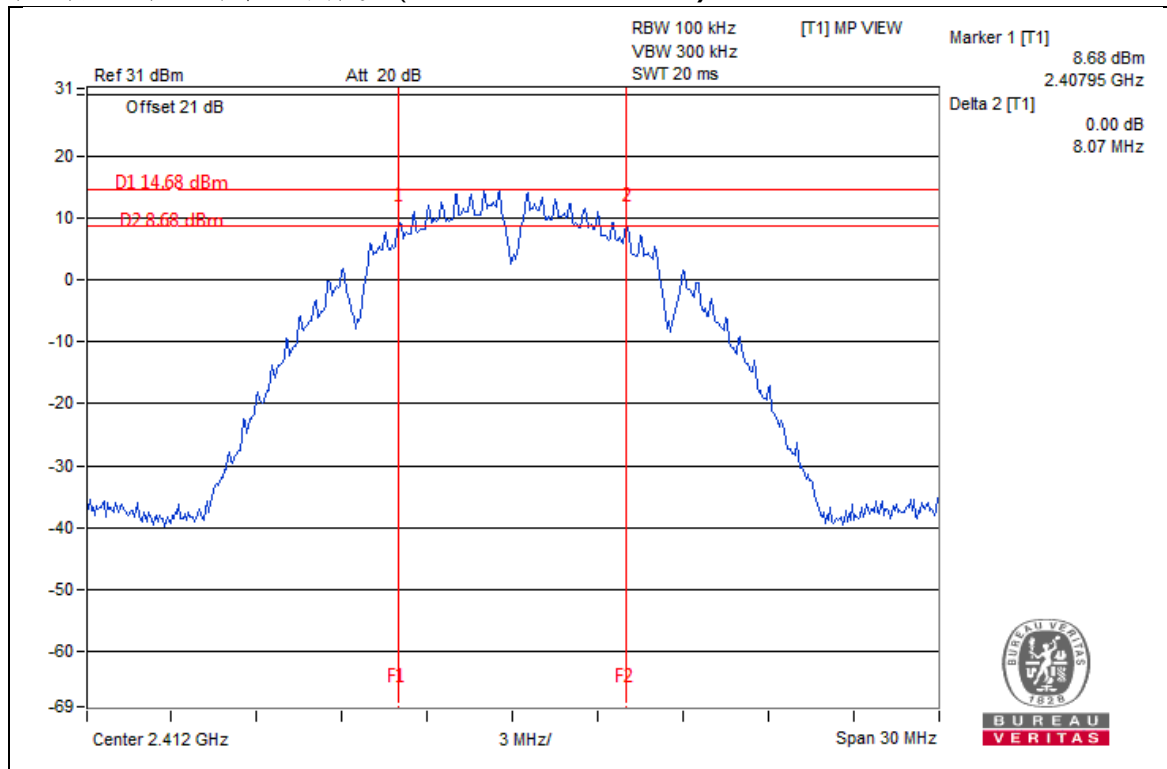
802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	17.54	17.57	17.60	17.62	0.5	Pass
6	2437	17.60	17.61	17.61	17.62	0.5	Pass
11	2462	17.24	17.18	17.64	17.62	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
3	2422	35.12	33.97	33.91	35.14	0.5	Pass
6	2437	35.27	35.15	35.13	33.27	0.5	Pass
9	2452	33.97	35.08	35.21	35.16	0.5	Pass

**此測試圖僅放測試結果最差的頻道。(802.11b / Chain 0 : CH1)



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 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

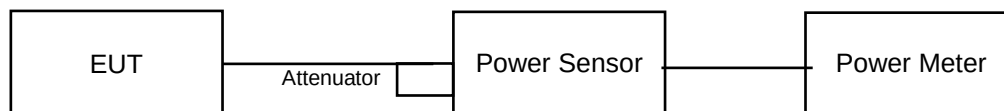
- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其最大輸出功率。

7.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018
Power sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018

NOTE: 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	107 年 02 月 27 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林俊鈞		

CDD Mode

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	22.52	23.44	22.53	20.95	702.961	28.47	30.00	Pass
6	2437	23.87	24.58	23.83	22.36	944.592	29.75	30.00	Pass
11	2462	23.22	23.90	23.19	21.72	812.408	29.10	30.00	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	21.15	22.39	21.61	20.18	552.806	27.43	30.00	Pass
6	2437	23.55	24.86	23.97	22.72	969.187	29.86	30.00	Pass
11	2462	19.59	20.88	20.45	18.78	399.879	26.02	30.00	Pass

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	20.29	22.12	21.32	20.28	512.014	27.09	30.00	Pass
6	2437	23.08	23.99	23.58	22.04	841.837	29.25	30.00	Pass
11	2462	19.02	20.45	20.07	18.61	364.952	25.62	30.00	Pass

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
3	2422	12.66	14.44	13.90	12.24	87.543	19.42	30.00	Pass
6	2437	17.51	18.99	18.80	16.89	260.337	24.16	30.00	Pass
9	2452	15.17	17.34	16.65	15.13	165.907	22.20	30.00	Pass

Beamforming Mode

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	20.29	22.12	21.32	20.28	512.014	27.09	28.08	Pass
6	2437	21.57	22.46	22.06	21.59	624.653	27.96	28.08	Pass
11	2462	19.02	20.45	20.07	18.61	364.952	25.62	28.08	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 7.92\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.92 - 6) = 28.08\text{dBm}$.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
3	2422	12.66	14.44	13.90	12.24	87.543	19.42	28.08	Pass
6	2437	17.51	18.99	18.80	16.89	260.337	24.16	28.08	Pass
9	2452	15.17	17.34	16.65	15.13	165.907	22.20	28.08	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 7.92\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.92 - 6) = 28.08\text{dBm}$.

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

- 將待測物之天線埠連接至測試儀器。
- 設定解析頻寬為 3 kHz，視訊頻寬為 10kHz，掃描時間設為自動，直至掃描信號穩定。
- 使用峰值功能鍵,並找到最大的峰值準位。

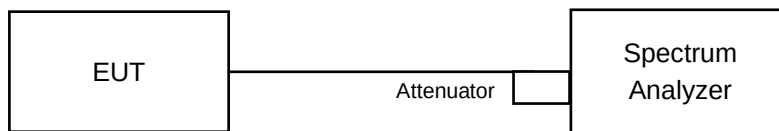
8.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	July 1, 2017	June 30, 2018

NOTE:

- The test was performed in Oven room 2.
- The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	107 年 02 月 27 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林俊鈞		

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=4) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-7.02	6.02	-1.00	6.08	Pass
	6	2437	-6.25	6.02	-0.23	6.08	Pass
	11	2462	-7.69	6.02	-1.67	6.08	Pass
1	1	2412	-7.53	6.02	-1.51	6.08	Pass
	6	2437	-6.72	6.02	-0.70	6.08	Pass
	11	2462	-6.65	6.02	-0.63	6.08	Pass
2	1	2412	-8.09	6.02	-2.07	6.08	Pass
	6	2437	-7.02	6.02	-1.00	6.08	Pass
	11	2462	-8.35	6.02	-2.33	6.08	Pass
3	1	2412	-10.59	6.02	-4.57	6.08	Pass
	6	2437	-8.86	6.02	-2.84	6.08	Pass
	11	2462	-9.52	6.02	-3.50	6.08	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 7.92\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (7.92 - 6) = 6.08\text{dBm}$.

802.11g

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/3kHz)	10 log (N=4) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-10.35	6.02	0.15	-4.18	6.08	Pass
	6	2437	-8.40	6.02	0.15	-2.23	6.08	Pass
	11	2462	-12.64	6.02	0.15	-6.47	6.08	Pass
1	1	2412	-10.36	6.02	0.15	-4.19	6.08	Pass
	6	2437	-8.58	6.02	0.15	-2.41	6.08	Pass
	11	2462	-11.10	6.02	0.15	-4.93	6.08	Pass
2	1	2412	-10.69	6.02	0.15	-4.52	6.08	Pass
	6	2437	-9.31	6.02	0.15	-3.14	6.08	Pass
	11	2462	-12.21	6.02	0.15	-6.04	6.08	Pass
3	1	2412	-13.03	6.02	0.15	-6.86	6.08	Pass
	6	2437	-10.56	6.02	0.15	-4.39	6.08	Pass
	11	2462	-12.91	6.02	0.15	-6.74	6.08	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 7.92\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (7.92 - 6) = 6.08\text{dBm}$.

2. Refer to section 2.1 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=4) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-12.75	6.02	-6.73	6.08	Pass
	6	2437	-10.26	6.02	-4.24	6.08	Pass
	11	2462	-13.15	6.02	-7.13	6.08	Pass
1	1	2412	-11.23	6.02	-5.21	6.08	Pass
	6	2437	-9.27	6.02	-3.25	6.08	Pass
	11	2462	-11.38	6.02	-5.36	6.08	Pass
2	1	2412	-12.08	6.02	-6.06	6.08	Pass
	6	2437	-10.04	6.02	-4.02	6.08	Pass
	11	2462	-12.91	6.02	-6.89	6.08	Pass
3	1	2412	-12.93	6.02	-6.91	6.08	Pass
	6	2437	-11.77	6.02	-5.75	6.08	Pass
	11	2462	-14.17	6.02	-8.15	6.08	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 7.92\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (7.92 - 6) = 6.08\text{dBm}$.

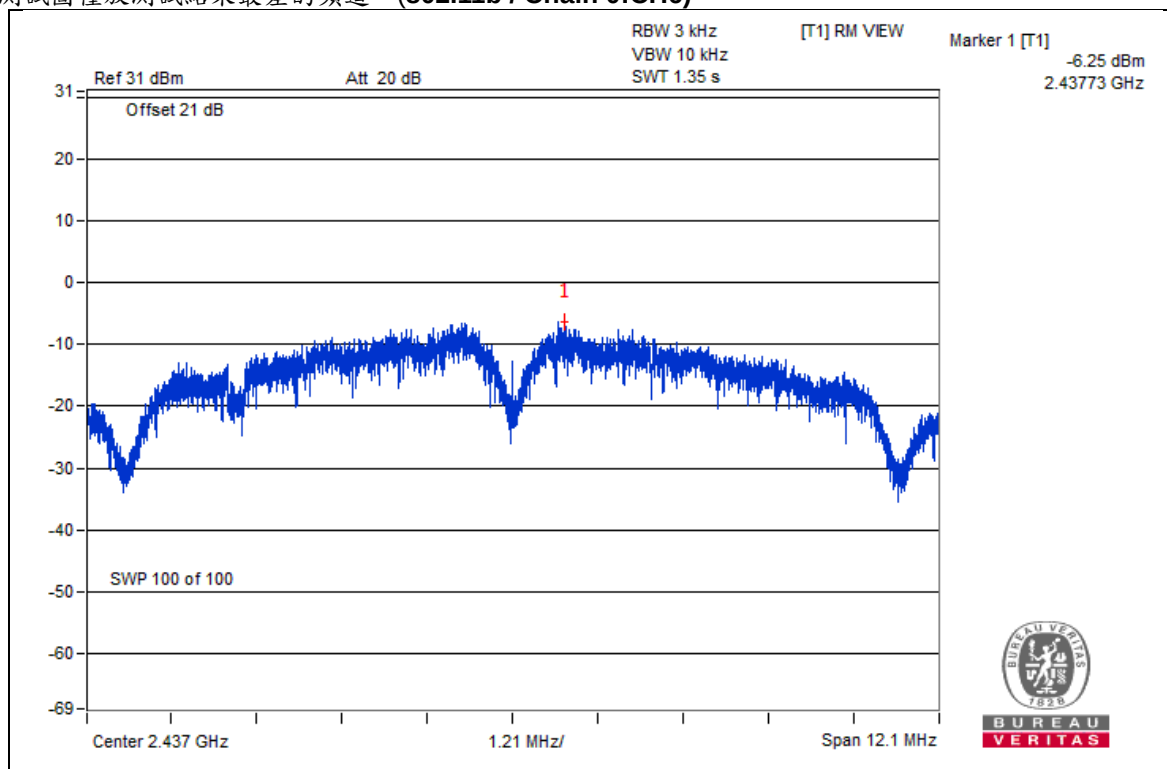
802.11n (HT40)

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/3kHz)	10 log (N=4) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-22.88	6.02	0.14	-16.72	6.08	Pass
	6	2437	-17.26	6.02	0.14	-11.10	6.08	Pass
	9	2452	-20.66	6.02	0.14	-14.50	6.08	Pass
1	3	2422	-21.36	6.02	0.14	-15.20	6.08	Pass
	6	2437	-15.86	6.02	0.14	-9.70	6.08	Pass
	9	2452	-18.68	6.02	0.14	-12.52	6.08	Pass
2	3	2422	-21.29	6.02	0.14	-15.13	6.08	Pass
	6	2437	-17.34	6.02	0.14	-11.18	6.08	Pass
	9	2452	-19.38	6.02	0.14	-13.22	6.08	Pass
3	3	2422	-22.91	6.02	0.14	-16.75	6.08	Pass
	6	2437	-18.77	6.02	0.14	-12.61	6.08	Pass
	9	2452	-19.70	6.02	0.14	-13.54	6.08	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 7.92\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (7.92 - 6) = 6.08\text{dBm}$.

2. 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。(802.11b / Chain 0:CH6)



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。

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

9.3 量測儀器

同 4.3 節

9.4 帶外發射之測試配置

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 (dBμV/m)	AV:54 (dBμV/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。

9.6 帶外發射之量測結果

9.6.1 發射諧波

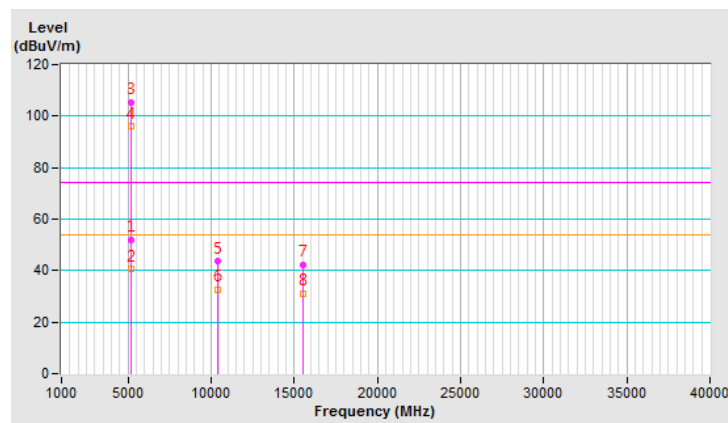
802.11a

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：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	51.8 PK	74.0	-22.2	2.47 H	251	47.8	4.0
2	5150.00	40.5 AV	54.0	-13.5	2.47 H	251	36.5	4.0
3	*5180.00	105.1 PK			2.47 H	251	101.2	3.9
4	*5180.00	95.9 AV			2.47 H	251	92.0	3.9
5	#10360.00	43.5 PK	74.0	-30.5	2.17 H	210	30.7	12.8
6	#10360.00	32.4 AV	54.0	-21.6	2.17 H	210	19.6	12.8
7	15540.00	42.1 PK	74.0	-31.9	1.34 H	66	28.8	13.3
8	15540.00	31.2 AV	54.0	-22.8	1.34 H	66	17.9	13.3
9	20720.00	-	-	-	-	-	-	-
10	#25900.00	-	-	-	-	-	-	-
11	#31080.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



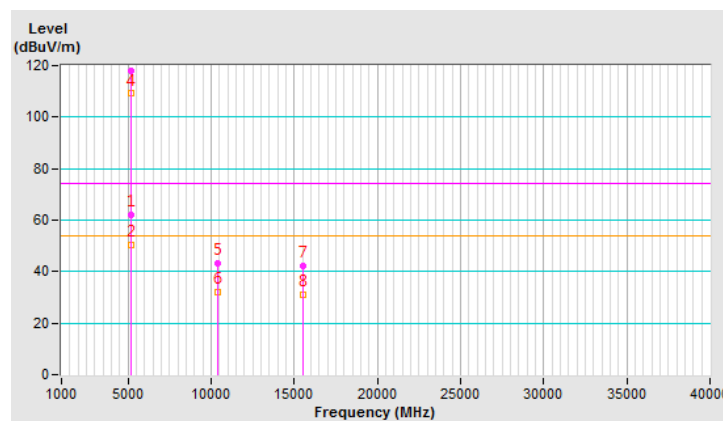
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	62.1 PK	74.0	-11.9	2.07 V	254	58.1	4.0
2	5150.00	50.2 AV	54.0	-3.8	2.07 V	254	46.2	4.0
3	*5180.00	118.2 PK			2.07 V	254	114.3	3.9
4	*5180.00	109.1 AV			2.07 V	254	105.2	3.9
5	#10360.00	43.1 PK	74.0	-30.9	1.42 V	213	30.3	12.8
6	#10360.00	31.9 AV	54.0	-22.1	1.42 V	213	19.1	12.8
7	15540.00	42.2 PK	74.0	-31.8	2.21 V	25	28.9	13.3
8	15540.00	31.2 AV	54.0	-22.8	2.21 V	25	17.9	13.3
9	20720.00	-	-	-	-	-	-	-
10	#25900.00	-	-	-	-	-	-	-
11	#31080.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

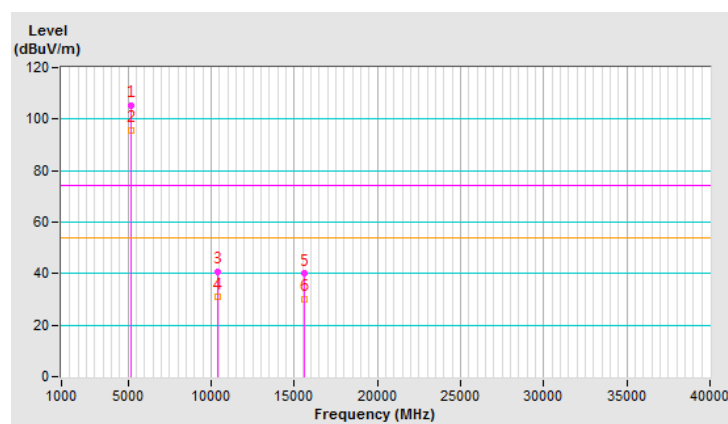


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	*5200.00	105.1 PK			2.42 H	238	101.3	3.8
2	*5200.00	95.8 AV			2.42 H	238	92.0	3.8
3	#10400.00	40.9 PK	74.0	-33.1	1.42 H	222	27.9	13.0
4	#10400.00	30.8 AV	54.0	-23.2	1.42 H	222	17.8	13.0
5	15600.00	40.0 PK	74.0	-34.0	1.45 H	28	26.3	13.7
6	15600.00	30.1 AV	54.0	-23.9	1.45 H	28	16.4	13.7
7	20800.00	-	-	-	-	-	-	-
8	#26000.00	-	-	-	-	-	-	-
9	31200.00	-	-	-	-	-	-	-
10	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

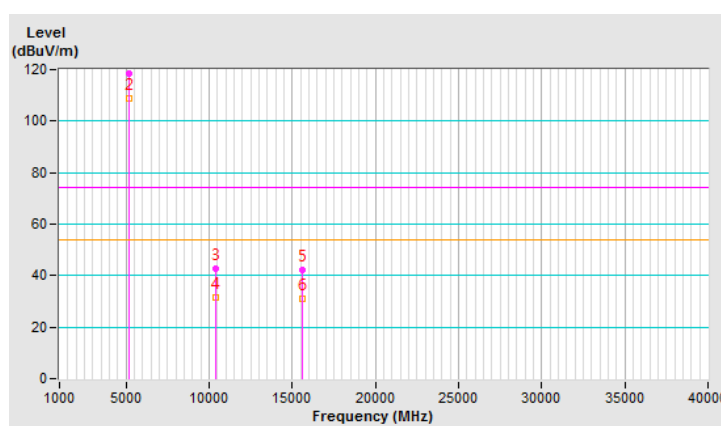


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	*5200.00	118.3 PK			2.10 V	258	114.5	3.8
2	*5200.00	108.9 AV			2.10 V	258	105.1	3.8
3	#10400.00	42.7 PK	74.0	-31.3	1.45 V	205	29.7	13.0
4	#10400.00	31.5 AV	54.0	-22.5	1.45 V	205	18.5	13.0
5	15600.00	42.3 PK	74.0	-31.7	1.43 V	2	28.6	13.7
6	15600.00	31.1 AV	54.0	-22.9	1.43 V	2	17.4	13.7
7	20800.00	-	-	-	-	-	-	-
8	#26000.00	-	-	-	-	-	-	-
9	31200.00	-	-	-	-	-	-	-
10	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



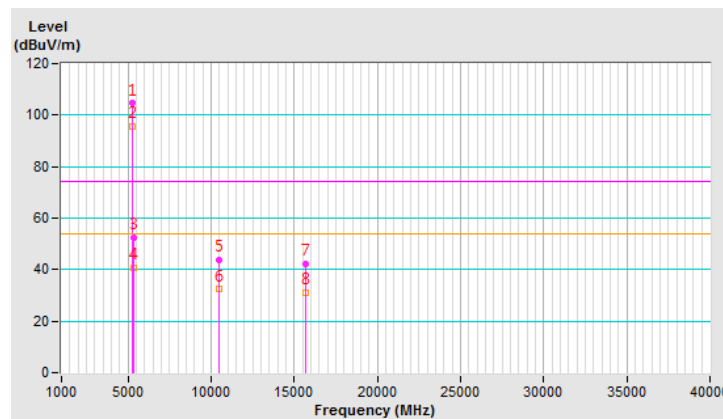
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	104.5 PK			2.38 H	244	100.9	3.6
2	*5240.00	95.6 AV			2.38 H	244	92.0	3.6
3	5350.00	52.3 PK	74.0	-21.7	2.38 H	244	48.7	3.6
4	5350.00	40.8 AV	54.0	-13.2	2.38 H	244	37.2	3.6
5	#10480.00	43.7 PK	74.0	-30.3	1.46 H	222	30.4	13.3
6	#10480.00	32.3 AV	54.0	-21.7	1.46 H	222	19.0	13.3
7	15720.00	42.1 PK	74.0	-31.9	2.22 H	18	29.3	12.8
8	15720.00	31.0 AV	54.0	-23.0	2.22 H	18	18.2	12.8
9	20960.00	-	-	-	-	-	-	-
10	#26200.00	-	-	-	-	-	-	-
11	31440.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

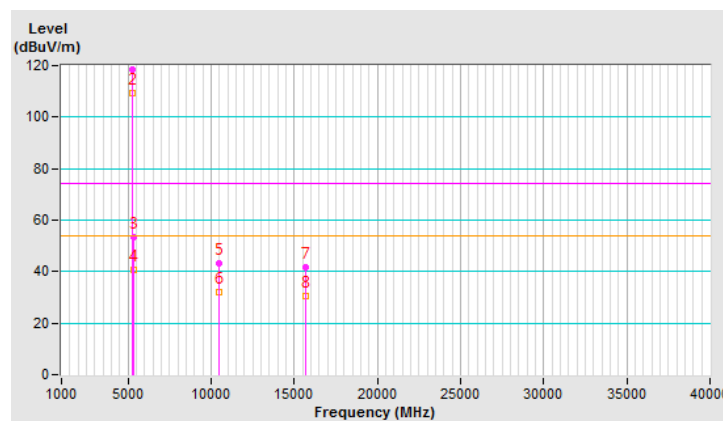


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	118.5 PK			2.02 V	258	114.9	3.6
2	*5240.00	109.5 AV			2.02 V	258	105.9	3.6
3	5350.00	53.3 PK	74.0	-20.7	2.02 V	258	49.7	3.6
4	5350.00	40.6 AV	54.0	-13.4	2.02 V	258	37.0	3.6
5	#10480.00	43.3 PK	74.0	-30.7	2.17 V	218	30.0	13.3
6	#10480.00	32.0 AV	54.0	-22.0	2.17 V	218	18.7	13.3
7	15720.00	41.9 PK	74.0	-32.1	1.40 V	77	29.1	12.8
8	15720.00	30.7 AV	54.0	-23.3	1.40 V	77	17.9	12.8
9	20960.00	-	-	-	-	-	-	-
10	#26200.00	-	-	-	-	-	-	-
11	31440.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

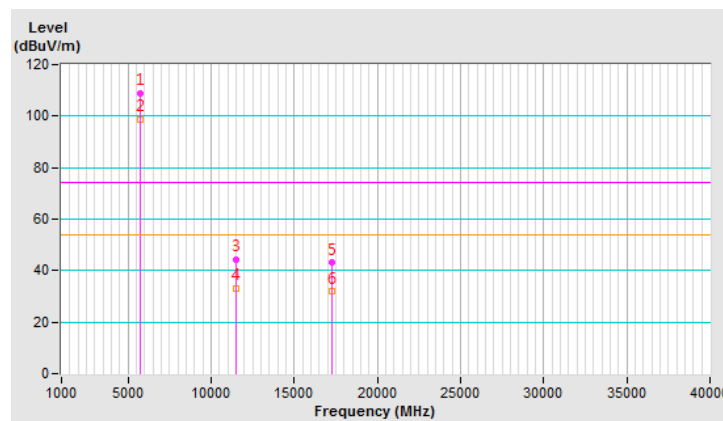


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	108.7 PK			2.51 H	248	104.3	4.4
2	*5745.00	98.5 AV			2.51 H	248	94.1	4.4
3	11490.00	44.3 PK	74.0	-29.7	2.12 H	246	31.0	13.3
4	11490.00	33.2 AV	54.0	-20.8	2.12 H	246	19.9	13.3
5	#17235.00	43.0 PK	74.0	-31.0	1.48 H	143	26.9	16.1
6	#17235.00	31.8 AV	54.0	-22.2	1.48 H	143	15.7	16.1
7	22980.00	-	-	-	-	-	-	-
8	#28725.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

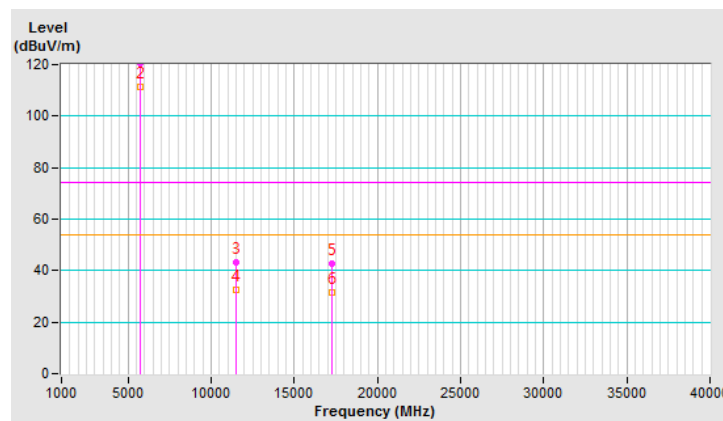


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	120.7 PK			1.94 V	176	116.3	4.4
2	*5745.00	111.2 AV			1.94 V	176	106.8	4.4
3	11490.00	43.4 PK	74.0	-30.6	2.15 V	243	30.1	13.3
4	11490.00	32.6 AV	54.0	-21.4	2.15 V	243	19.3	13.3
5	#17235.00	42.7 PK	74.0	-31.3	1.05 V	127	26.6	16.1
6	#17235.00	31.4 AV	54.0	-22.6	1.05 V	127	15.3	16.1
7	22980.00	-	-	-	-	-	-	-
8	#28725.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

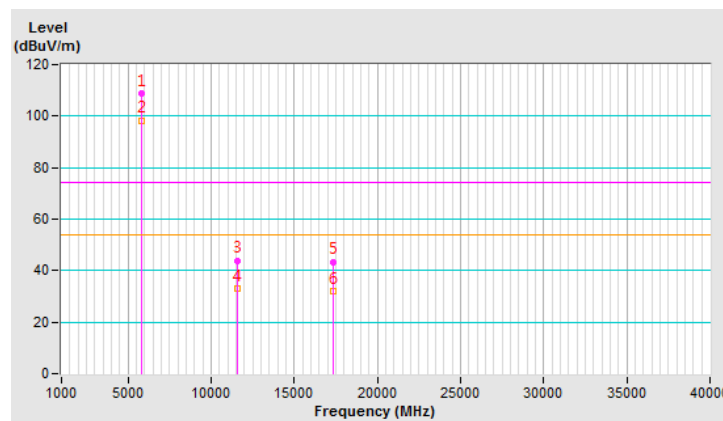


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	108.6 PK			2.61 H	241	104.0	4.6
2	*5785.00	98.2 AV			2.61 H	241	93.6	4.6
3	11570.00	43.8 PK	74.0	-30.2	2.13 H	240	30.3	13.5
4	11570.00	32.8 AV	54.0	-21.2	2.13 H	240	19.3	13.5
5	#17355.00	43.1 PK	74.0	-30.9	1.01 H	125	26.2	16.9
6	#17355.00	31.8 AV	54.0	-22.2	1.01 H	125	14.9	16.9
7	#23140.00	-	-	-	-	-	-	-
8	#28925.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

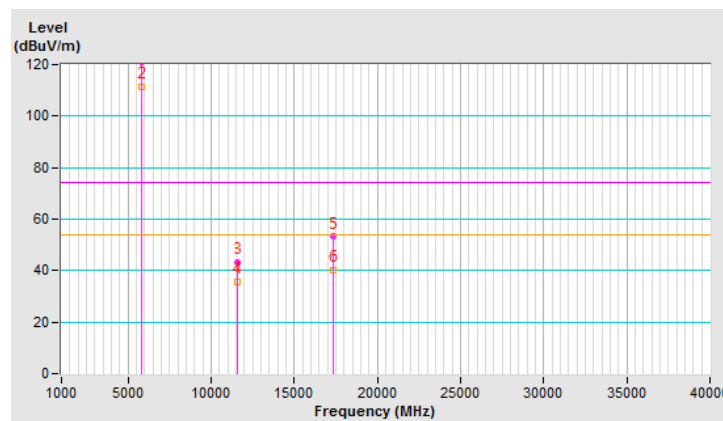


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	121.0 PK			1.52 V	228	116.4	4.6
2	*5785.00	111.4 AV			1.52 V	228	106.8	4.6
3	11570.00	43.2 PK	74.0	-30.8	1.56 V	155	29.7	13.5
4	11570.00	35.8 AV	54.0	-18.2	1.56 V	155	22.3	13.5
5	#17355.00	53.2 PK	74.0	-20.8	1.32 V	344	36.3	16.9
6	#17355.00	40.3 AV	54.0	-13.7	1.32 V	344	23.4	16.9
7	#23140.00	-	-	-	-	-	-	-
8	#28925.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

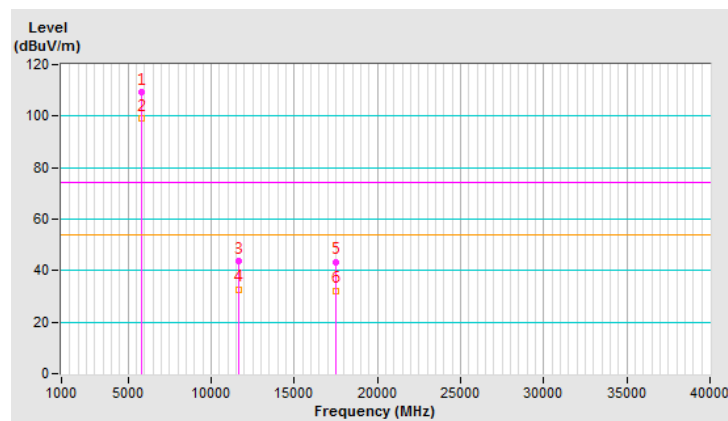


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	109.1 PK			2.66 H	228	104.4	4.7
2	*5825.00	98.9 AV			2.66 H	228	94.2	4.7
3	11650.00	43.5 PK	74.0	-30.5	2.11 H	255	30.0	13.5
4	11650.00	32.4 AV	54.0	-21.6	2.11 H	255	18.9	13.5
5	#17475.00	43.4 PK	74.0	-30.6	1.06 H	124	25.2	18.2
6	#17475.00	32.2 AV	54.0	-21.8	1.06 H	124	14.0	18.2
7	#23300.00	-	-	-	-	-	-	-
8	#29125.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

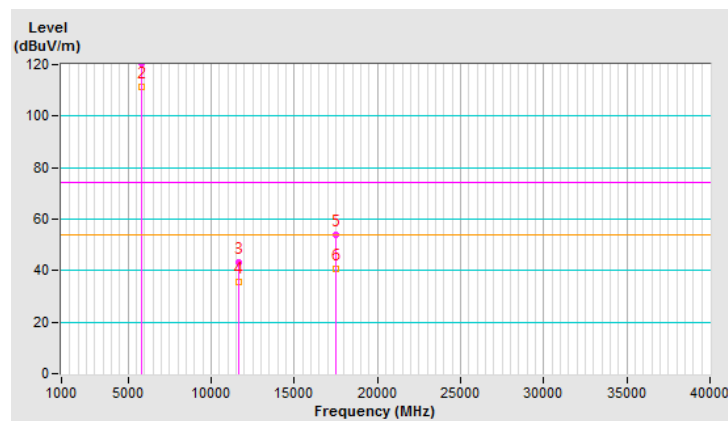


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	120.5 PK			1.18 V	229	115.8	4.7
2	*5825.00	111.2 AV			1.18 V	229	106.5	4.7
3	11650.00	43.1 PK	74.0	-30.9	1.56 V	162	29.6	13.5
4	11650.00	35.8 AV	54.0	-18.2	1.56 V	162	22.3	13.5
5	#17475.00	53.8 PK	74.0	-20.2	2.84 V	49	35.6	18.2
6	#17475.00	40.8 AV	54.0	-13.2	2.84 V	49	22.6	18.2
7	#23300.00	-	-	-	-	-	-	-
8	#29125.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



802.11ac (VHT20)

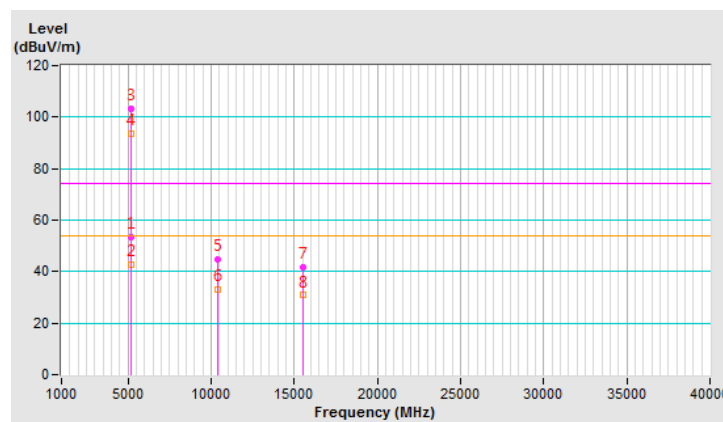
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	53.3 PK	74.0	-20.7	2.43 H	270	49.3	4.0
2	5150.00	42.6 AV	54.0	-11.4	2.43 H	270	38.6	4.0
3	*5180.00	103.3 PK			2.43 H	270	99.4	3.9
4	*5180.00	93.8 AV			2.43 H	270	89.9	3.9
5	#10360.00	44.8 PK	74.0	-29.2	2.29 H	226	32.0	12.8
6	#10360.00	33.2 AV	54.0	-20.8	2.29 H	226	20.4	12.8
7	15540.00	41.9 PK	74.0	-32.1	1.34 H	360	28.6	13.3
8	15540.00	30.8 AV	54.0	-23.2	1.34 H	360	17.5	13.3
9	20720.00	-	-	-	-	-	-	-
10	#25900.00	-	-	-	-	-	-	-
11	#31080.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

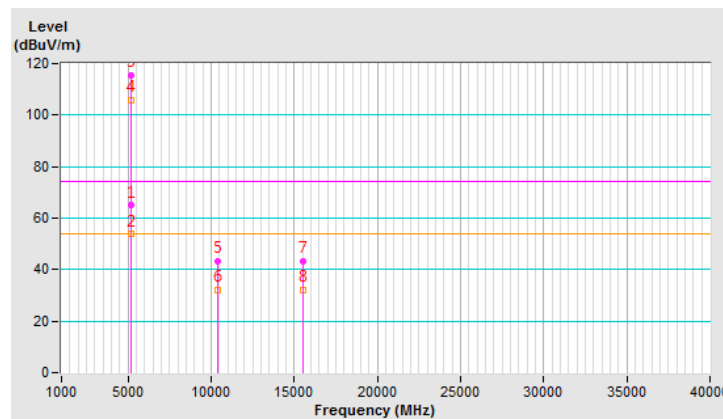


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	64.9 PK	74.0	-9.1	2.36 V	234	60.9	4.0
2	5150.00	53.7 AV	54.0	-0.3	2.36 V	234	49.7	4.0
3	*5180.00	115.6 PK			2.36 V	234	111.7	3.9
4	*5180.00	105.7 AV			2.36 V	234	101.8	3.9
5	#10360.00	43.1 PK	74.0	-30.9	2.16 V	254	30.3	12.8
6	#10360.00	32.1 AV	54.0	-21.9	2.16 V	254	19.3	12.8
7	15540.00	43.2 PK	74.0	-30.8	2.74 V	305	29.9	13.3
8	15540.00	32.1 AV	54.0	-21.9	2.74 V	305	18.8	13.3
9	20720.00	-	-	-	-	-	-	-
10	#25900.00	-	-	-	-	-	-	-
11	#31080.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



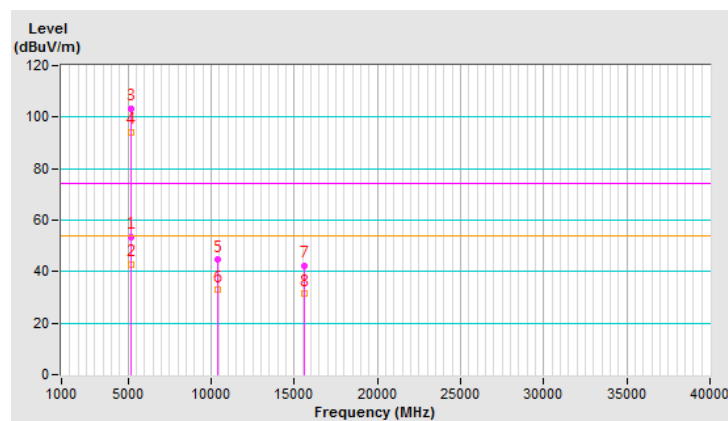
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	53.5 PK	74.0	-20.5	2.39 H	279	49.5	4.0
2	5150.00	42.9 AV	54.0	-11.1	2.39 H	279	38.9	4.0
3	*5200.00	103.2 PK			2.39 H	279	99.4	3.8
4	*5200.00	93.9 AV			2.39 H	279	90.1	3.8
5	#10400.00	44.5 PK	74.0	-29.5	2.30 H	223	31.5	13.0
6	#10400.00	32.8 AV	54.0	-21.2	2.30 H	223	19.8	13.0
7	15600.00	42.1 PK	74.0	-31.9	1.36 H	353	28.4	13.7
8	15600.00	31.3 AV	54.0	-22.7	1.36 H	353	17.6	13.7
9	20800.00	-	-	-	-	-	-	-
10	#26000.00	-	-	-	-	-	-	-
11	31200.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



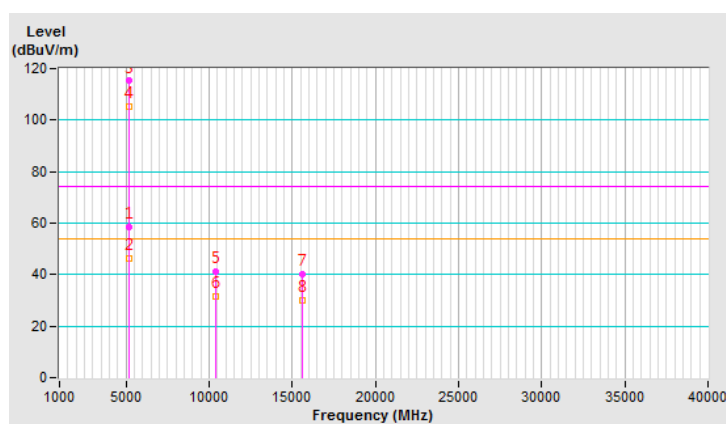
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	58.4 PK	74.0	-15.6	2.08 V	232	54.4	4.0
2	5150.00	46.5 AV	54.0	-7.5	2.08 V	232	42.5	4.0
3	*5200.00	115.2 PK			2.08 V	232	111.4	3.8
4	*5200.00	105.3 AV			2.08 V	232	101.5	3.8
5	#10400.00	41.2 PK	74.0	-32.8	1.48 V	200	28.2	13.0
6	#10400.00	31.6 AV	54.0	-22.4	1.48 V	200	18.6	13.0
7	15600.00	40.3 PK	74.0	-33.7	1.56 V	339	26.6	13.7
8	15600.00	30.2 AV	54.0	-23.8	1.56 V	339	16.5	13.7
9	20800.00	-	-	-	-	-	-	-
10	#26000.00	-	-	-	-	-	-	-
11	31200.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



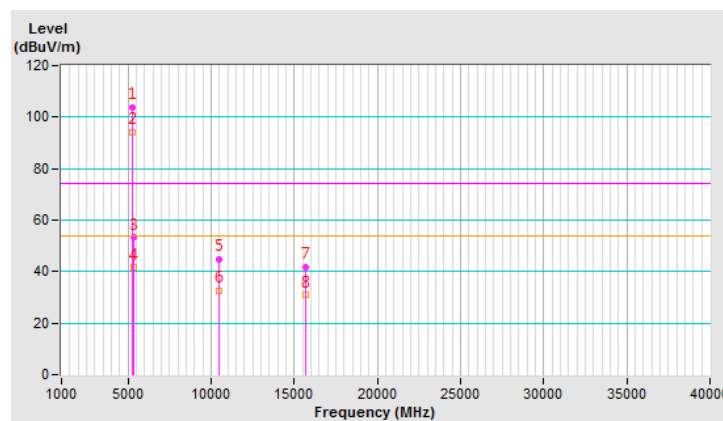
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	103.7 PK			2.37 H	282	100.1	3.6
2	*5240.00	94.0 AV			2.37 H	282	90.4	3.6
3	5350.00	53.2 PK	74.0	-20.8	2.37 H	282	49.6	3.6
4	5350.00	41.5 AV	54.0	-12.5	2.37 H	282	37.9	3.6
5	#10480.00	44.6 PK	74.0	-29.4	2.35 H	149	31.3	13.3
6	#10480.00	32.7 AV	54.0	-21.3	2.35 H	149	19.4	13.3
7	15720.00	41.6 PK	74.0	-32.4	1.39 H	158	28.8	12.8
8	15720.00	30.8 AV	54.0	-23.2	1.39 H	158	18.0	12.8
9	20960.00	-	-	-	-	-	-	-
10	#26200.00	-	-	-	-	-	-	-
11	31440.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

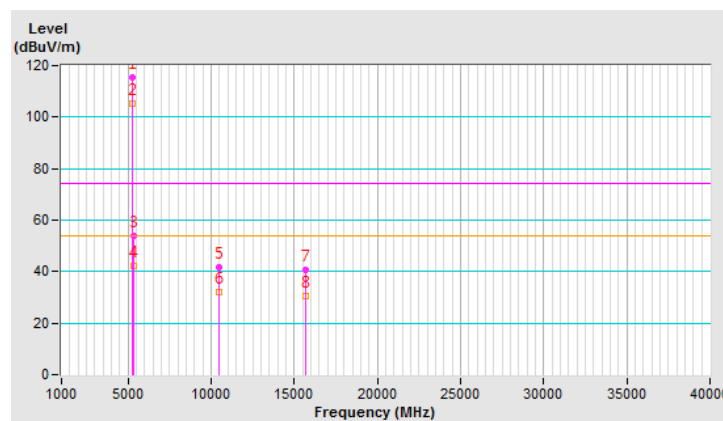


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48 : 5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	115.5 PK			2.01 V	229	111.9	3.6
2	*5240.00	105.4 AV			2.01 V	229	101.8	3.6
3	5350.00	53.8 PK	74.0	-20.2	2.01 V	229	50.2	3.6
4	5350.00	42.1 AV	54.0	-11.9	2.01 V	229	38.5	3.6
5	#10480.00	41.6 PK	74.0	-32.4	1.53 V	78	28.3	13.3
6	#10480.00	31.9 AV	54.0	-22.1	1.53 V	78	18.6	13.3
7	15720.00	40.7 PK	74.0	-33.3	2.41 V	354	27.9	12.8
8	15720.00	30.6 AV	54.0	-23.4	2.41 V	354	17.8	12.8
9	20960.00	-	-	-	-	-	-	-
10	#26200.00	-	-	-	-	-	-	-
11	31440.00	-	-	-	-	-	-	-
12	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

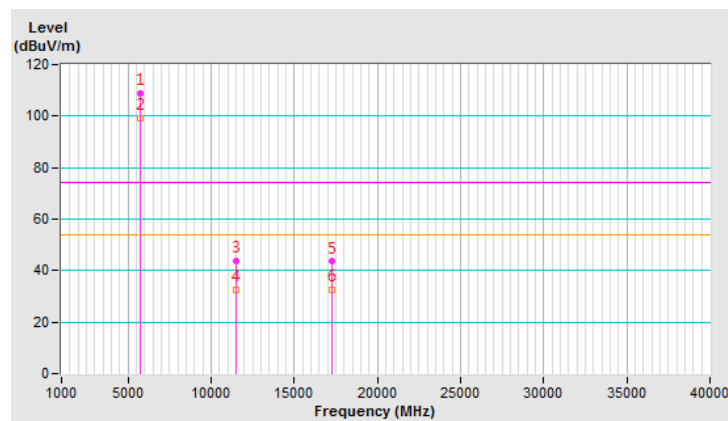


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	109.0 PK			2.68 H	234	104.6	4.4
2	*5745.00	99.0 AV			2.68 H	234	94.6	4.4
3	11490.00	43.7 PK	74.0	-30.3	2.09 H	257	30.4	13.3
4	11490.00	32.5 AV	54.0	-21.5	2.09 H	257	19.2	13.3
5	#17235.00	43.5 PK	74.0	-30.5	1.02 H	136	27.4	16.1
6	#17235.00	32.4 AV	54.0	-21.6	1.02 H	136	16.3	16.1
7	22980.00	-	-	-	-	-	-	-
8	#28725.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

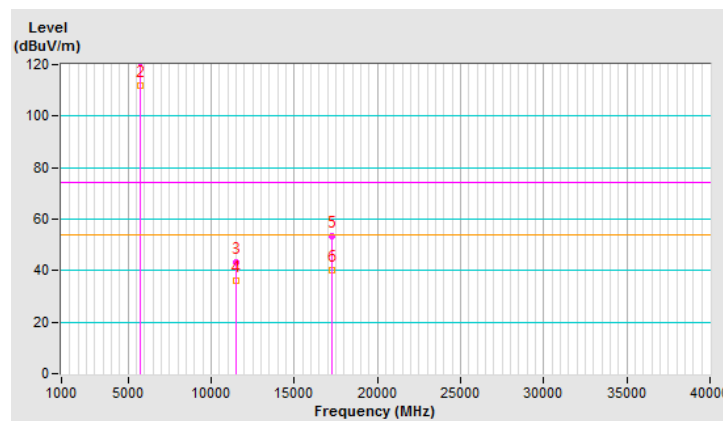


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	121.2 PK			1.13 V	242	116.8	4.4
2	*5745.00	111.7 AV			1.13 V	242	107.3	4.4
3	11490.00	43.2 PK	74.0	-30.8	1.59 V	169	29.9	13.3
4	11490.00	36.0 AV	54.0	-18.0	1.59 V	169	22.7	13.3
5	#17235.00	53.3 PK	74.0	-20.7	2.81 V	46	37.2	16.1
6	#17235.00	40.3 AV	54.0	-13.7	2.81 V	46	24.2	16.1
7	22980.00	-	-	-	-	-	-	-
8	#28725.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

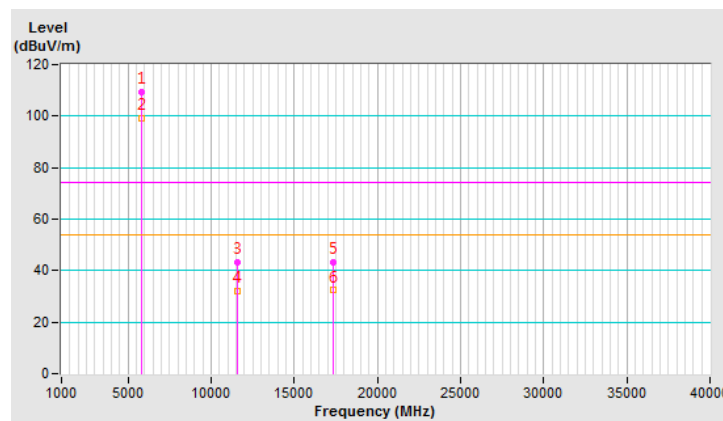


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	109.2 PK			2.69 H	242	104.6	4.6
2	*5785.00	99.4 AV			2.69 H	242	94.8	4.6
3	11570.00	43.1 PK	74.0	-30.9	2.03 H	260	29.6	13.5
4	11570.00	32.0 AV	54.0	-22.0	2.03 H	260	18.5	13.5
5	#17355.00	43.4 PK	74.0	-30.6	1.01 H	139	26.5	16.9
6	#17355.00	32.3 AV	54.0	-21.7	1.01 H	139	15.4	16.9
7	#23140.00	-	-	-	-	-	-	-
8	#28925.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

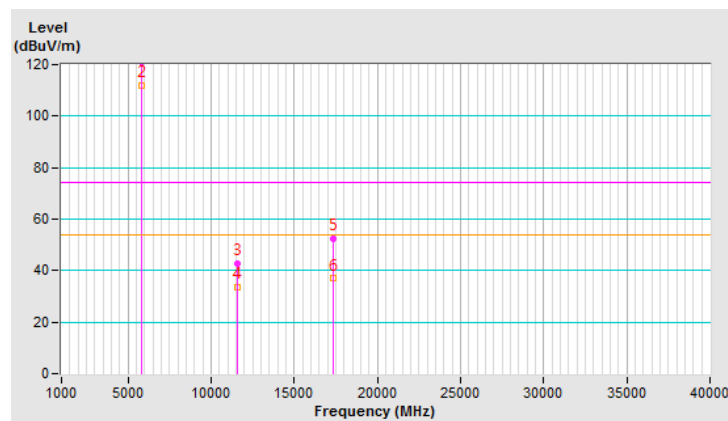


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	121.1 PK			1.41 V	228	116.5	4.6
2	*5785.00	111.7 AV			1.41 V	228	107.1	4.6
3	11570.00	42.7 PK	74.0	-31.3	1.50 V	152	29.2	13.5
4	11570.00	33.5 AV	54.0	-20.5	1.50 V	152	20.0	13.5
5	#17355.00	52.3 PK	74.0	-21.7	1.54 V	19	35.4	16.9
6	#17355.00	36.9 AV	54.0	-17.1	1.54 V	19	20.0	16.9
7	#23140.00	-	-	-	-	-	-	-
8	#28925.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

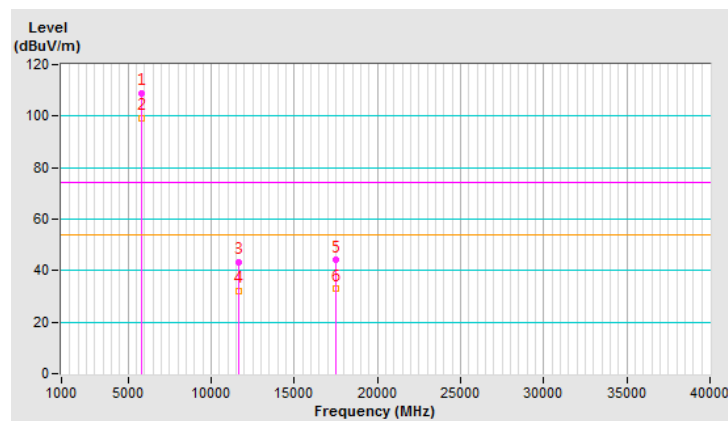


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	108.9 PK			2.64 H	253	104.2	4.7
2	*5825.00	99.1 AV			2.64 H	253	94.4	4.7
3	11650.00	43.1 PK	74.0	-30.9	1.97 H	249	29.6	13.5
4	11650.00	31.9 AV	54.0	-22.1	1.97 H	249	18.4	13.5
5	#17475.00	44.0 PK	74.0	-30.0	1.03 H	149	25.8	18.2
6	#17475.00	32.8 AV	54.0	-21.2	1.03 H	149	14.6	18.2
7	#23300.00	-	-	-	-	-	-	-
8	#29125.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

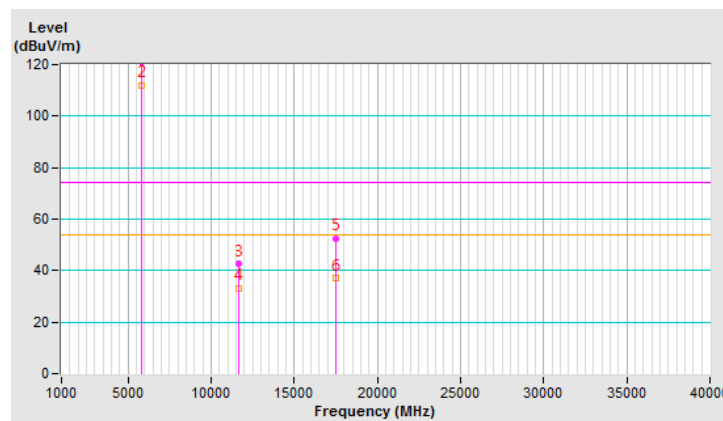


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=10Hz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	121.2 PK			1.37 V	217	116.5	4.7
2	*5825.00	111.8 AV			1.37 V	217	107.1	4.7
3	11650.00	42.5 PK	74.0	-31.5	1.55 V	148	29.0	13.5
4	11650.00	33.2 AV	54.0	-20.8	1.55 V	148	19.7	13.5
5	#17475.00	52.6 PK	74.0	-21.4	1.57 V	10	34.4	18.2
6	#17475.00	36.9 AV	54.0	-17.1	1.57 V	10	18.7	18.2
7	#23300.00	-	-	-	-	-	-	-
8	#29125.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



802.11ac (VHT40)

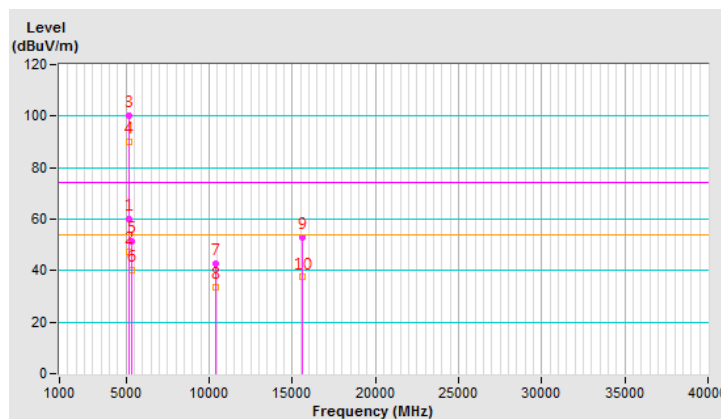
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	60.2 PK	74.0	-13.8	2.14 H	245	56.2	4.0
2	5150.00	47.5 AV	54.0	-6.5	2.14 H	245	43.5	4.0
3	*5190.00	100.1 PK			2.14 H	245	96.2	3.9
4	*5190.00	90.2 AV			2.14 H	245	86.3	3.9
5	5350.00	51.2 PK	74.0	-22.8	2.14 H	245	47.6	3.6
6	5350.00	40.2 AV	54.0	-13.8	2.14 H	245	36.6	3.6
7	#10380.00	42.6 PK	74.0	-31.4	1.52 H	136	29.7	12.9
8	#10380.00	33.4 AV	54.0	-20.6	1.52 H	136	20.5	12.9
9	15570.00	52.9 PK	74.0	-21.1	1.63 H	12	39.5	13.4
10	15570.00	37.4 AV	54.0	-16.6	1.63 H	12	24.0	13.4
11	20760.00	-	-	-	-	-	-	-
12	#25950.00	-	-	-	-	-	-	-
13	#31140.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

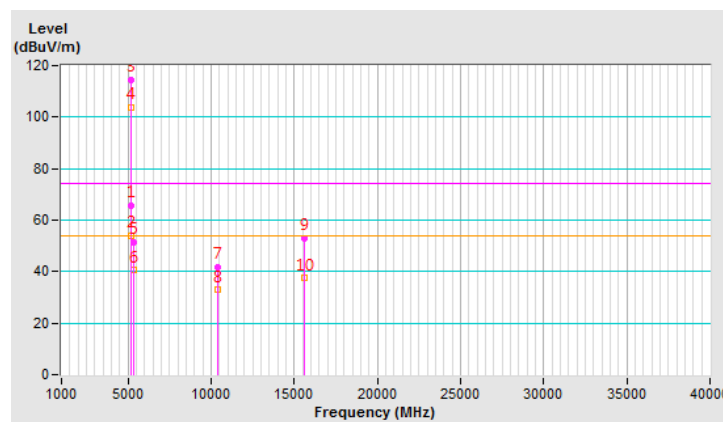


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 38：5190 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	65.7 PK	74.0	-8.3	2.07 V	261	61.7	4.0
2	5150.00	53.9 AV	54.0	-0.1	2.07 V	261	49.9	4.0
3	*5190.00	114.3 PK			2.07 V	261	110.4	3.9
4	*5190.00	103.9 AV			2.07 V	261	100.0	3.9
5	5350.00	51.4 PK	74.0	-22.6	2.07 V	261	47.8	3.6
6	5350.00	40.5 AV	54.0	-13.5	2.07 V	261	36.9	3.6
7	#10380.00	41.9 PK	74.0	-32.1	1.52 V	228	29.0	12.9
8	#10380.00	32.8 AV	54.0	-21.2	1.52 V	228	19.9	12.9
9	15570.00	53.1 PK	74.0	-20.9	1.58 V	159	39.7	13.4
10	15570.00	37.4 AV	54.0	-16.6	1.58 V	159	24.0	13.4
11	20760.00	-	-	-	-	-	-	-
12	#25950.00	-	-	-	-	-	-	-
13	#31140.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



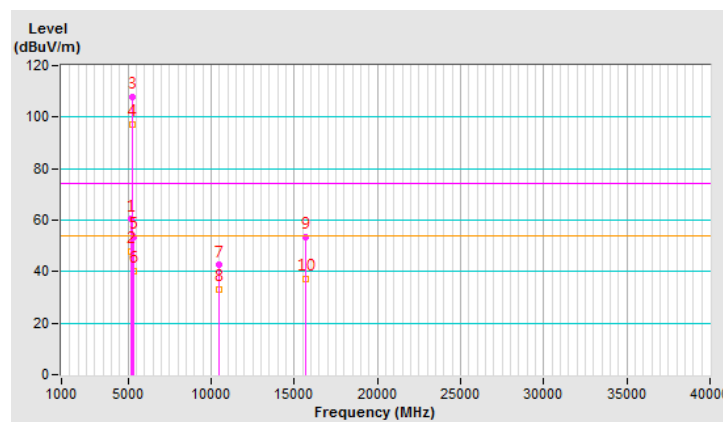
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	60.3 PK	74.0	-13.7	2.20 H	234	56.3	4.0
2	5150.00	47.8 AV	54.0	-6.2	2.20 H	234	43.8	4.0
3	*5230.00	107.7 PK			2.20 H	234	104.1	3.6
4	*5230.00	97.1 AV			2.20 H	234	93.5	3.6
5	5350.00	53.3 PK	74.0	-20.7	2.20 H	234	49.7	3.6
6	5350.00	40.3 AV	54.0	-13.7	2.20 H	234	36.7	3.6
7	#10460.00	42.5 PK	74.0	-31.5	1.46 H	228	29.2	13.3
8	#10460.00	33.2 AV	54.0	-20.8	1.46 H	228	19.9	13.3
9	15690.00	53.3 PK	74.0	-20.7	1.54 H	157	40.3	13.0
10	15690.00	37.3 AV	54.0	-16.7	1.54 H	157	24.3	13.0
11	20920.00	-	-	-	-	-	-	-
12	#26150.00	-	-	-	-	-	-	-
13	31380.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

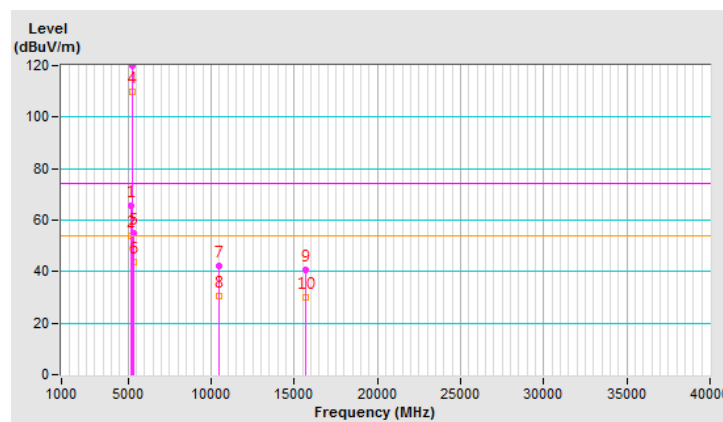


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	65.7 PK	74.0	-8.3	1.98 V	261	61.7	4.0
2	5150.00	53.8 AV	54.0	-0.2	1.98 V	261	49.8	4.0
3	*5230.00	119.8 PK			1.98 V	261	116.2	3.6
4	*5230.00	110.0 AV			1.98 V	261	106.4	3.6
5	5350.00	54.9 PK	74.0	-19.1	1.98 V	261	51.3	3.6
6	5350.00	43.8 AV	54.0	-10.2	1.98 V	261	40.2	3.6
7	#10460.00	42.2 PK	74.0	-31.8	1.72 V	241	28.9	13.3
8	#10460.00	30.7 AV	54.0	-23.3	1.72 V	241	17.4	13.3
9	15690.00	40.6 PK	74.0	-33.4	2.41 V	192	27.6	13.0
10	15690.00	30.1 AV	54.0	-23.9	2.41 V	192	17.1	13.0
11	20920.00	-	-	-	-	-	-	-
12	#26150.00	-	-	-	-	-	-	-
13	31380.00	-	-	-	-	-	-	-
14	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

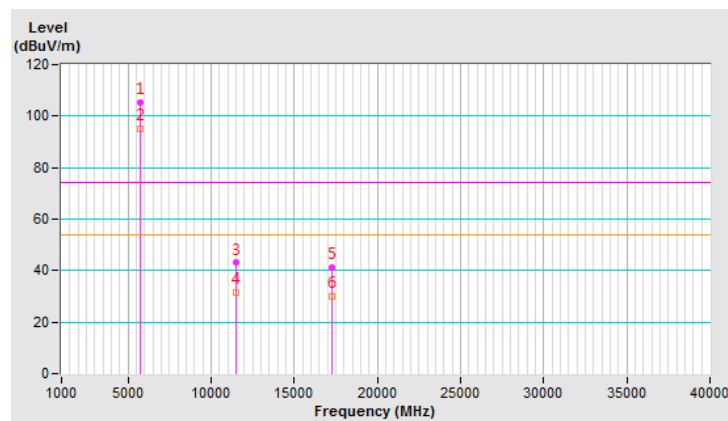


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	105.4 PK			2.07 H	265	100.9	4.5
2	*5755.00	95.2 AV			2.07 H	265	90.7	4.5
3	11510.00	43.0 PK	74.0	-31.0	1.67 H	12	29.7	13.3
4	11510.00	31.7 AV	54.0	-22.3	1.67 H	12	18.4	13.3
5	#17265.00	41.1 PK	74.0	-32.9	1.29 H	184	24.9	16.2
6	#17265.00	30.2 AV	54.0	-23.8	1.29 H	184	14.0	16.2
7	23020.00	-	-	-	-	-	-	-
8	#28775.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

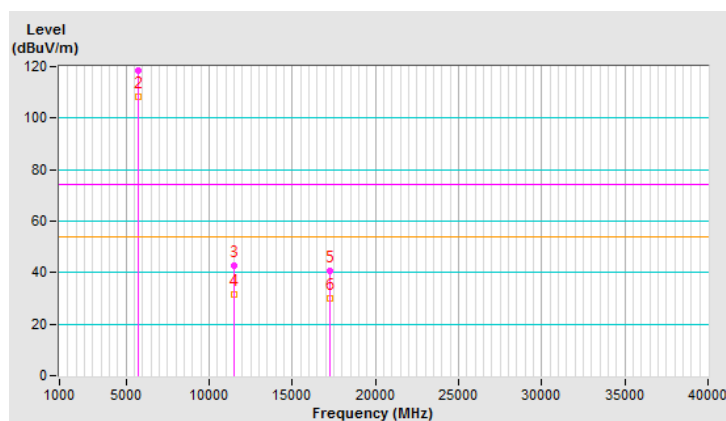


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	118.3 PK			2.04 V	176	113.8	4.5
2	*5755.00	108.4 AV			2.04 V	176	103.9	4.5
3	11510.00	42.8 PK	74.0	-31.2	1.69 V	15	29.5	13.3
4	11510.00	31.4 AV	54.0	-22.6	1.69 V	15	18.1	13.3
5	#17265.00	40.9 PK	74.0	-33.1	1.31 V	198	24.7	16.2
6	#17265.00	30.1 AV	54.0	-23.9	1.31 V	198	13.9	16.2
7	23020.00	-	-	-	-	-	-	-
8	#28775.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

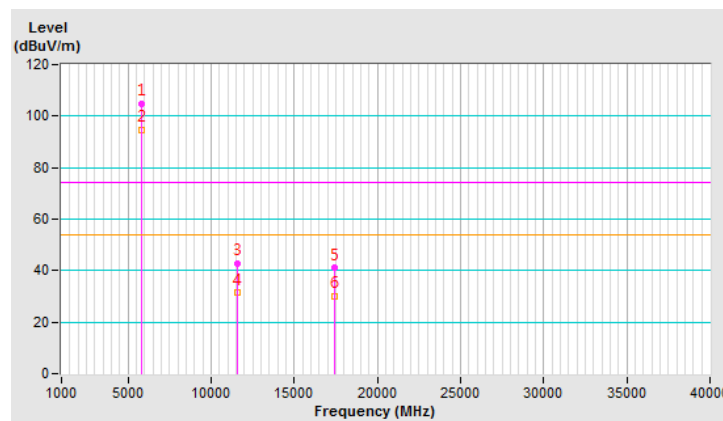


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	105.0 PK			2.05 H	274	100.5	4.5
2	*5795.00	94.8 AV			2.05 H	274	90.3	4.5
3	11590.00	42.8 PK	74.0	-31.2	1.66 H	11	29.1	13.7
4	11590.00	31.3 AV	54.0	-22.7	1.66 H	11	17.6	13.7
5	#17385.00	41.0 PK	74.0	-33.0	1.32 H	184	23.9	17.1
6	#17385.00	30.1 AV	54.0	-23.9	1.32 H	184	13.0	17.1
7	#23180.00	-	-	-	-	-	-	-
8	#28975.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

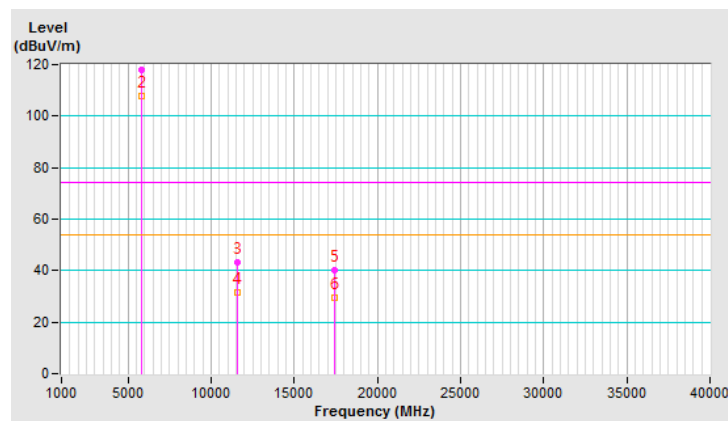


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	117.9 PK			1.99 V	177	113.4	4.5
2	*5795.00	107.9 AV			1.99 V	177	103.4	4.5
3	11590.00	43.1 PK	74.0	-30.9	1.70 V	31	29.4	13.7
4	11590.00	31.6 AV	54.0	-22.4	1.70 V	31	17.9	13.7
5	#17385.00	40.3 PK	74.0	-33.7	1.30 V	195	23.2	17.1
6	#17385.00	29.7 AV	54.0	-24.3	1.30 V	195	12.6	17.1
7	#23180.00	-	-	-	-	-	-	-
8	#28975.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



802.11ac (VHT80)

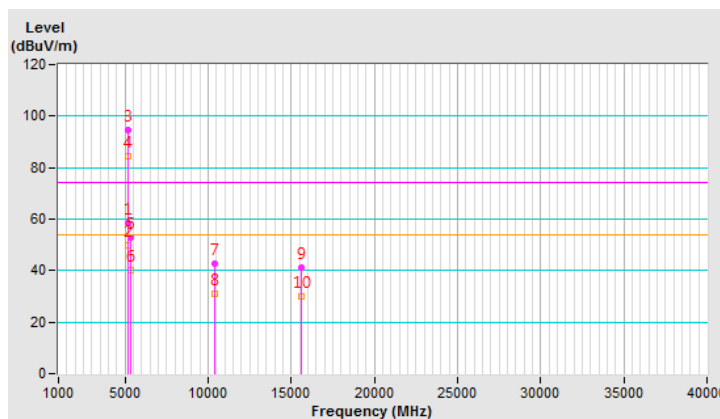
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	58.4 PK	74.0	-15.6	2.57 H	257	54.4	4.0
2	5150.00	49.8 AV	54.0	-4.2	2.57 H	257	45.8	4.0
3	*5210.00	94.8 PK			2.57 H	257	91.0	3.8
4	*5210.00	84.5 AV			2.57 H	257	80.7	3.8
5	5350.00	52.8 PK	74.0	-21.2	2.57 H	257	49.2	3.6
6	5350.00	40.3 AV	54.0	-13.7	2.57 H	257	36.7	3.6
7	#10420.00	42.6 PK	74.0	-31.4	1.68 H	142	29.5	13.1
8	#10420.00	31.1 AV	54.0	-22.9	1.68 H	142	18.0	13.1
9	15630.00	41.1 PK	74.0	-32.9	3.51 H	193	27.7	13.4
10	15630.00	30.2 AV	54.0	-23.8	3.51 H	193	16.8	13.4
11	20840.00	-	-	-	-	-	-	-
12	#26050.00	-	-	-	-	-	-	-
13	31260.00	-	-	-	-	-	-	-
14	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

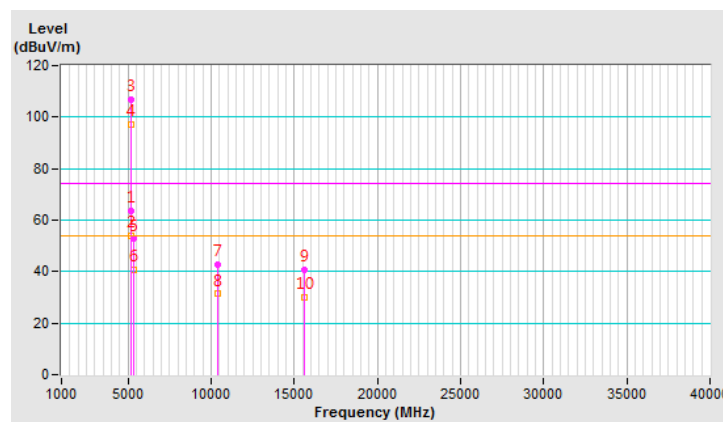


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24℃	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	2.52 V	262	59.8	4.0
2	5150.00	53.9 AV	54.0	-0.1	2.52 V	262	49.9	4.0
3	*5210.00	106.9 PK			2.52 V	262	103.1	3.8
4	*5210.00	97.3 AV			2.52 V	262	93.5	3.8
5	5350.00	52.7 PK	74.0	-21.3	2.52 V	262	49.1	3.6
6	5350.00	40.9 AV	54.0	-13.1	2.52 V	262	37.3	3.6
7	#10420.00	42.8 PK	74.0	-31.2	1.65 V	31	29.7	13.1
8	#10420.00	31.3 AV	54.0	-22.7	1.65 V	31	18.2	13.1
9	15630.00	40.8 PK	74.0	-33.2	1.31 V	197	27.4	13.4
10	15630.00	30.2 AV	54.0	-23.8	1.31 V	197	16.8	13.4
11	20840.00	-	-	-	-	-	-	-
12	#26050.00	-	-	-	-	-	-	-
13	31260.00	-	-	-	-	-	-	-
14	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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

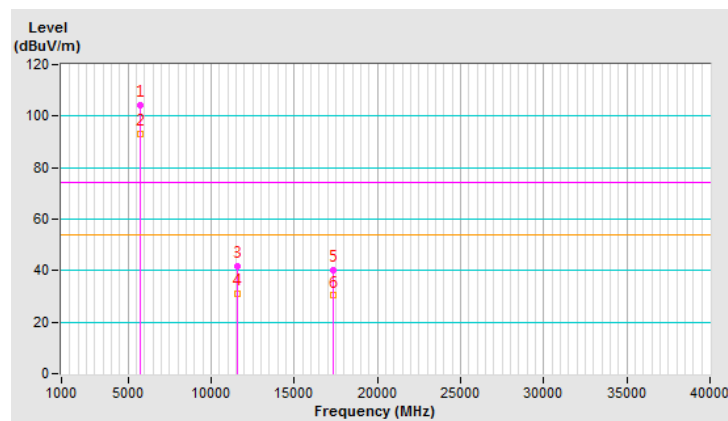


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	104.1 PK			2.41 H	253	99.6	4.5
2	*5775.00	93.3 AV			2.41 H	253	88.8	4.5
3	11550.00	41.9 PK	74.0	-32.1	1.65 H	187	28.4	13.5
4	11550.00	31.1 AV	54.0	-22.9	1.65 H	187	17.6	13.5
5	#17325.00	40.1 PK	74.0	-33.9	1.30 H	228	23.5	16.6
6	#17325.00	30.3 AV	54.0	-23.7	1.30 H	228	13.7	16.6
7	23100.00	-	-	-	-	-	-	-
8	#28875.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.

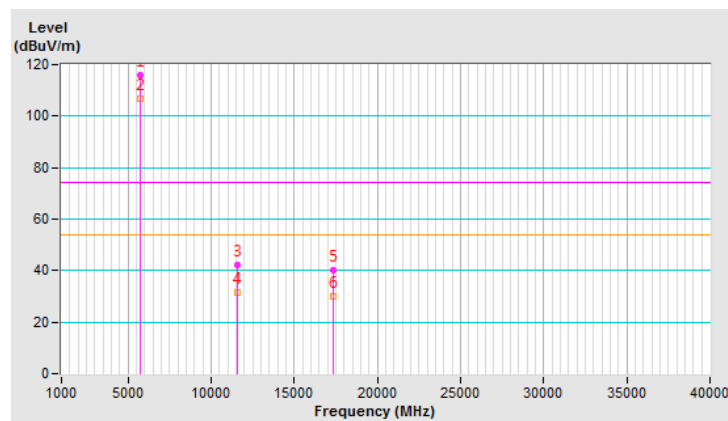


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155 : 5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	115.8 PK			1.30 V	227	111.3	4.5
2	*5775.00	106.7 AV			1.30 V	227	102.2	4.5
3	11550.00	42.4 PK	74.0	-31.6	1.68 V	184	28.9	13.5
4	11550.00	31.4 AV	54.0	-22.6	1.68 V	184	17.9	13.5
5	#17325.00	40.1 PK	74.0	-33.9	1.36 V	201	23.5	16.6
6	#17325.00	30.0 AV	54.0	-24.0	1.36 V	201	13.4	16.6
7	23100.00	-	-	-	-	-	-	-
8	#28875.00	-	-	-	-	-	-	-
9	#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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
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 output power.



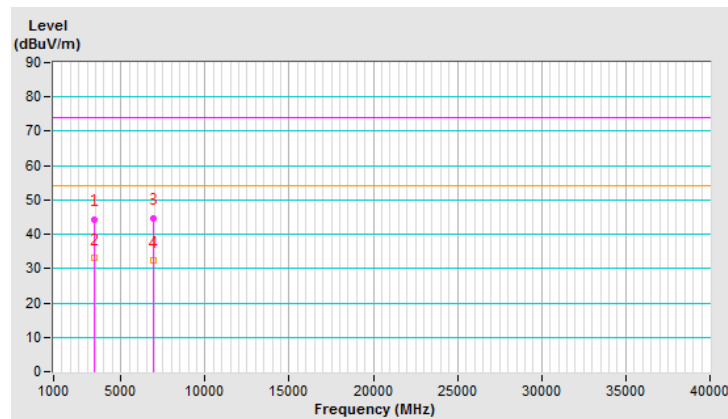
9.6.2 接收諧波

操作模式：	接收		
基本波頻率：	CH 36 : 5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3453.33	44.4 PK	74.0	-29.6	1.55 H	195	44.6	-0.2
2	3453.33	33.3 AV	54.0	-20.7	1.55 H	195	33.5	-0.2
3	6906.67	44.8 PK	74.0	-29.2	1.26 H	76	36.9	7.9
4	6906.67	32.4 AV	54.0	-21.6	1.26 H	76	24.5	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

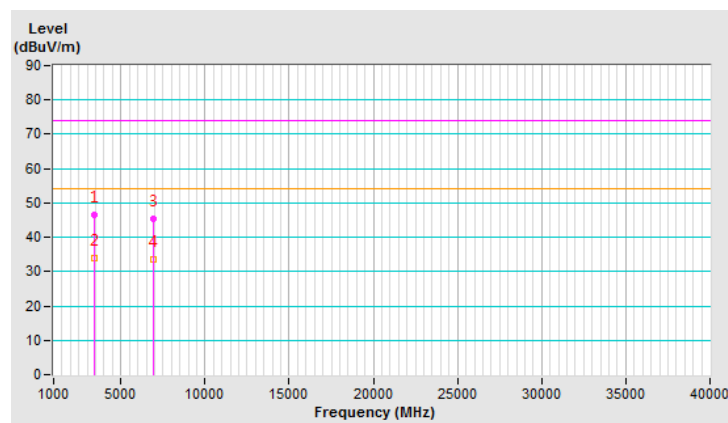


操作模式：	接收		
基本波頻率：	CH 36 : 5180 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3453.33	46.5 PK	74.0	-27.5	1.51 V	167	46.7	-0.2
2	3453.33	34.0 AV	54.0	-20.0	1.51 V	167	34.2	-0.2
3	6906.67	45.4 PK	74.0	-28.6	1.54 V	197	37.5	7.9
4	6906.67	33.6 AV	54.0	-20.4	1.54 V	197	25.7	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

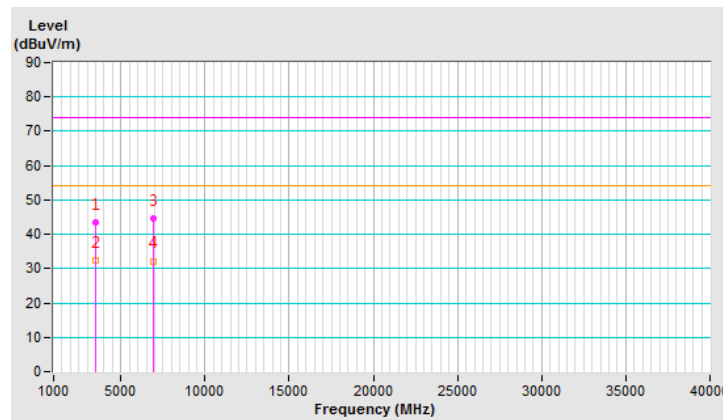


操作模式：	接收		
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3466.67	43.6 PK	74.0	-30.4	1.56 H	211	43.7	-0.1
2	3466.67	32.5 AV	54.0	-21.5	1.56 H	211	32.6	-0.1
3	6933.33	44.5 PK	74.0	-29.5	1.34 H	71	36.6	7.9
4	6933.33	32.2 AV	54.0	-21.8	1.34 H	71	24.3	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

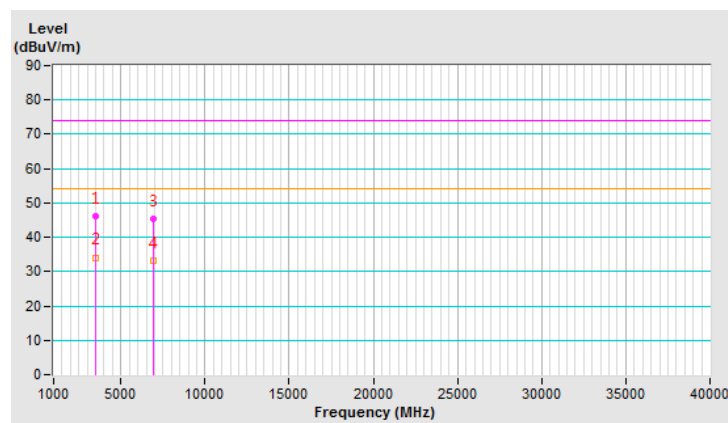


操作模式：	接收		
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3466.67	46.2 PK	74.0	-27.8	1.49 V	158	46.3	-0.1
2	3466.67	34.1 AV	54.0	-19.9	1.49 V	158	34.2	-0.1
3	6933.33	45.5 PK	74.0	-28.5	1.40 V	176	37.6	7.9
4	6933.33	33.0 AV	54.0	-21.0	1.40 V	176	25.1	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

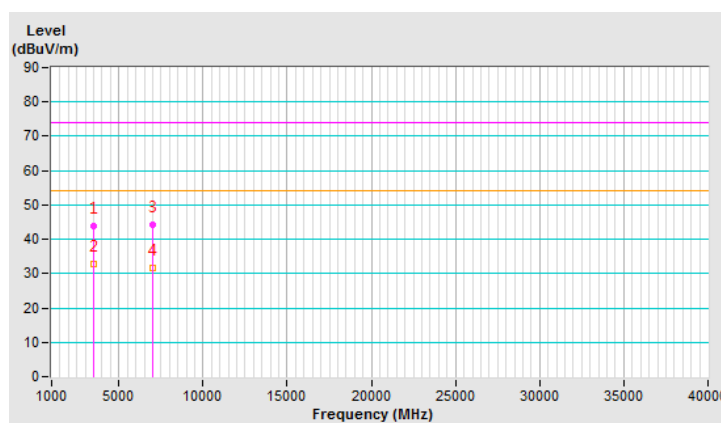


操作模式：	接收		
基本波頻率：	CH 48 : 5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3493.33	44.0 PK	74.0	-30.0	1.52 H	187	44.0	0.0
2	3493.33	32.7 AV	54.0	-21.3	1.52 H	187	32.7	0.0
3	6986.67	44.1 PK	74.0	-29.9	1.30 H	56	35.6	8.5
4	6986.67	31.6 AV	54.0	-22.4	1.30 H	56	23.1	8.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

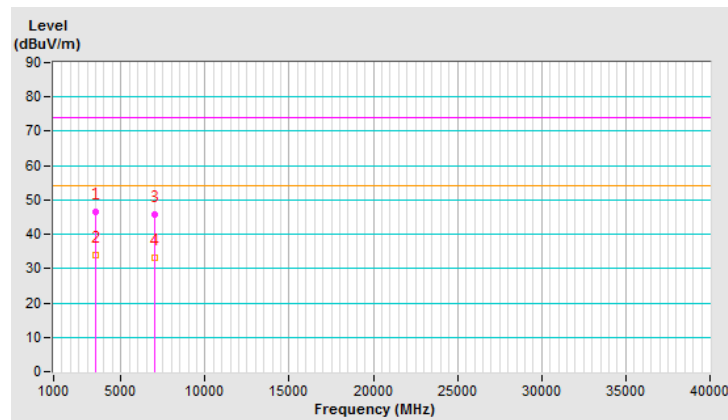


操作模式：	接收		
基本波頻率：	CH 48 : 5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3493.33	46.4 PK	74.0	-27.6	1.56 V	176	46.4	0.0
2	3493.33	33.9 AV	54.0	-20.1	1.56 V	176	33.9	0.0
3	6986.67	45.9 PK	74.0	-28.1	1.43 V	193	37.4	8.5
4	6986.67	33.3 AV	54.0	-20.7	1.43 V	193	24.8	8.5

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

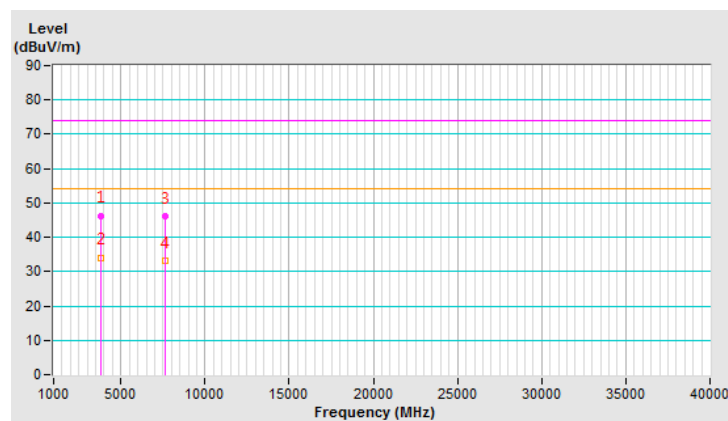


操作模式：	接收		
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3830.00	46.3 PK	74.0	-27.7	1.54 H	187	45.2	1.1
2	3830.00	34.1 AV	54.0	-19.9	1.54 H	187	33.0	1.1
3	7660.00	46.1 PK	74.0	-27.9	1.50 H	174	37.0	9.1
4	7660.00	33.2 AV	54.0	-20.8	1.50 H	174	24.1	9.1

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

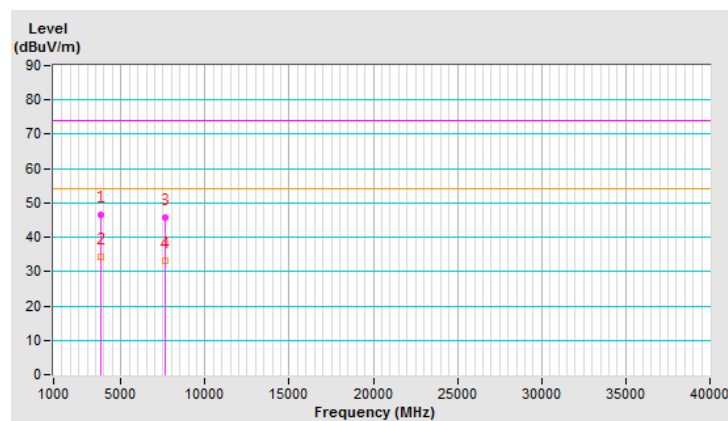


操作模式：	接收		
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3830.00	46.5 PK	74.0	-27.5	1.61 V	168	45.4	1.1
2	3830.00	34.3 AV	54.0	-19.7	1.61 V	168	33.2	1.1
3	7660.00	45.7 PK	74.0	-28.3	1.45 V	187	36.6	9.1
4	7660.00	33.1 AV	54.0	-20.9	1.45 V	187	24.0	9.1

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

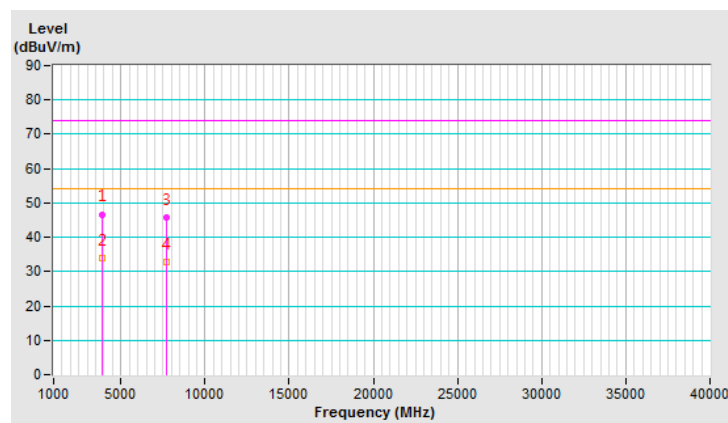


操作模式：	接收		
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3856.67	46.7 PK	74.0	-27.3	1.57 H	183	45.6	1.1
2	3856.67	34.0 AV	54.0	-20.0	1.57 H	183	32.9	1.1
3	7713.33	45.6 PK	74.0	-28.4	1.43 H	187	36.6	9.0
4	7713.33	32.9 AV	54.0	-21.1	1.43 H	187	23.9	9.0

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.
4. Margin value = Emission Level – Limit value

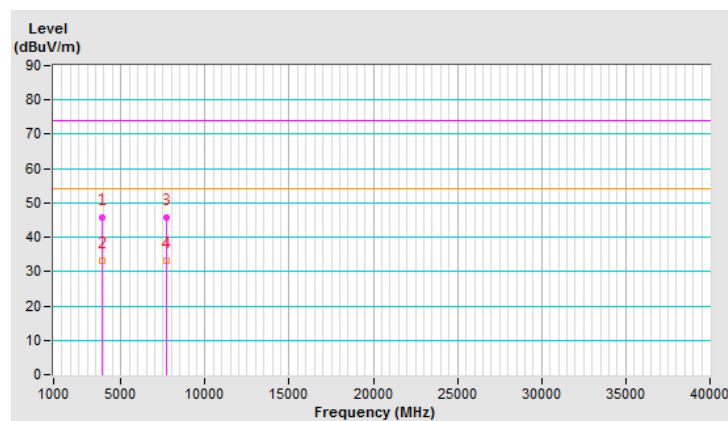


操作模式：	接收		
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3856.67	45.9 PK	74.0	-28.1	1.46 V	167	44.8	1.1
2	3856.67	33.2 AV	54.0	-20.8	1.46 V	167	32.1	1.1
3	7713.33	45.6 PK	74.0	-28.4	1.40 V	179	36.6	9.0
4	7713.33	33.2 AV	54.0	-20.8	1.40 V	179	24.2	9.0

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.
4. Margin value = Emission Level – Limit value

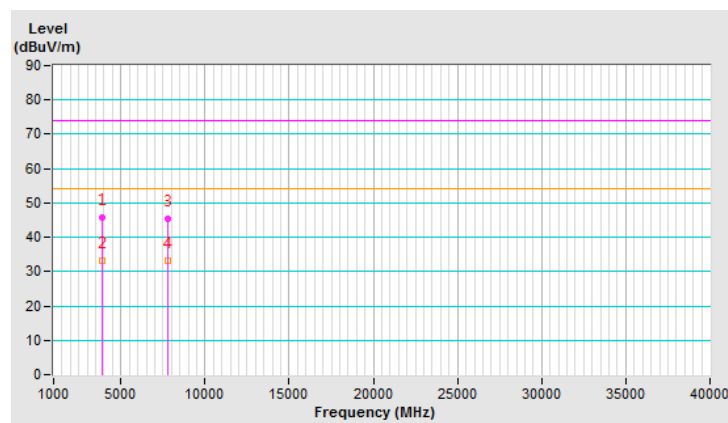


操作模式：	接收		
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3883.33	45.7 PK	74.0	-28.3	1.46 H	157	44.6	1.1
2	3883.33	33.2 AV	54.0	-20.8	1.46 H	157	32.1	1.1
3	7766.67	45.2 PK	74.0	-28.8	1.35 H	193	35.9	9.3
4	7766.67	33.2 AV	54.0	-20.8	1.35 H	193	23.9	9.3

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

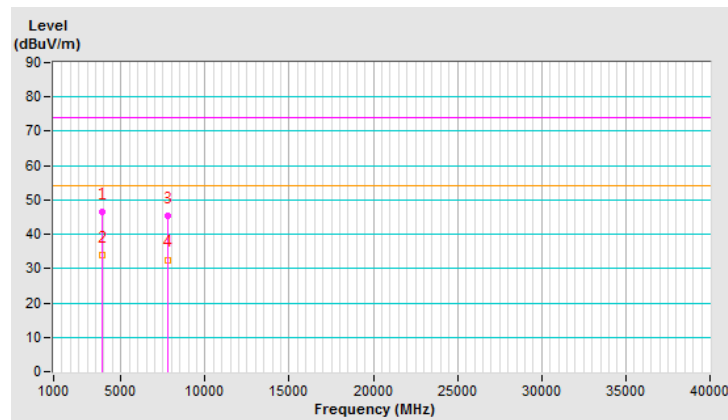


操作模式：	接收		
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	67%RH
測試日期：	107 年 2 月 14 日	測試者：	江承舜

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	3883.33	46.5 PK	74.0	-27.5	1.61 V	186	45.4	1.1
2	3883.33	34.0 AV	54.0	-20.0	1.61 V	186	32.9	1.1
3	7766.67	45.5 PK	74.0	-28.5	1.40 V	201	36.2	9.3
4	7766.67	32.6 AV	54.0	-21.4	1.40 V	201	23.3	9.3

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. 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

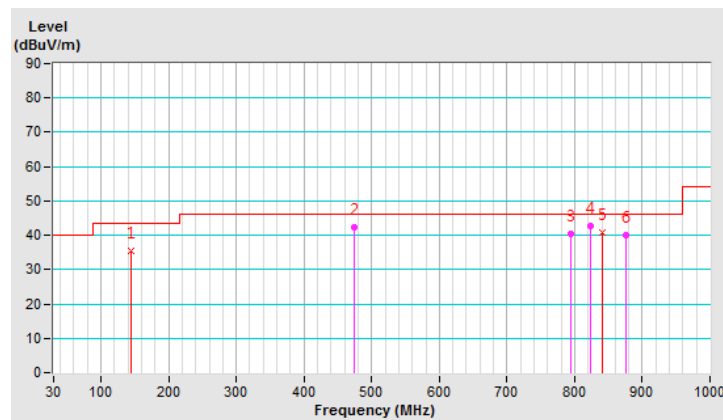
802.11ac (VHT20)

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 9 日	測試者：	江承舜

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	144.01	35.3 QP	43.5	-8.2	2.00 H	230	43.4	-8.1
2	475.13	42.2 QP	46.0	-3.8	2.00 H	0	45.5	-3.3
3	794.53	40.5 QP	46.0	-5.5	1.00 H	63	37.9	2.6
4	823.85	42.8 QP	46.0	-3.2	1.00 H	56	40.1	2.7
5	840.17	40.8 QP	46.0	-5.2	1.00 H	56	38.0	2.8
6	875.02	40.0 QP	46.0	-6.0	1.50 H	322	36.9	3.1

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.



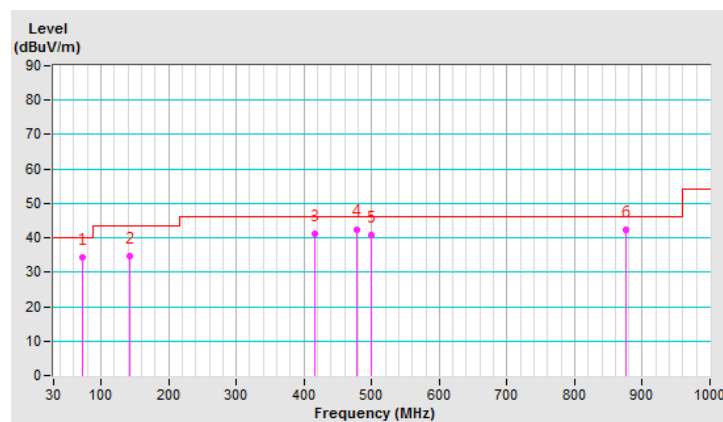
操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 149：5745 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	23°C	量測場地濕度：	66%RH
測試日期：	107 年 2 月 9 日	測試者：	江承舜

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	72.75	34.4 QP	40.0	-5.6	2.00 V	94	45.2	-10.8
2	141.57	34.5 QP	43.5	-9.0	1.00 V	48	42.7	-8.2
3	415.33	41.1 QP	46.0	-4.9	1.50 V	107	45.7	-4.6
4	477.80	42.5 QP	46.0	-3.5	1.00 V	62	45.7	-3.2
5	500.04	40.7 QP	46.0	-5.3	1.00 V	75	43.4	-2.7
6	875.04	42.3 QP	46.0	-3.7	1.50 V	108	39.2	3.1

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.



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 輻射量測之配置照片

請參照 Test Setup Photos

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 0.15 MHz 至 30 MHz 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

餘裕度 $\text{Margin(dB)} = \text{結果值 Emission level (dBuV)} - \text{限制值 Limit value (dBuV)}$

電源傳導干擾電壓之計算公式如下

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

其中校正因子 $\text{Correction Factor (dB)}$ 為：

饋線損失+電源阻抗模擬網路損失

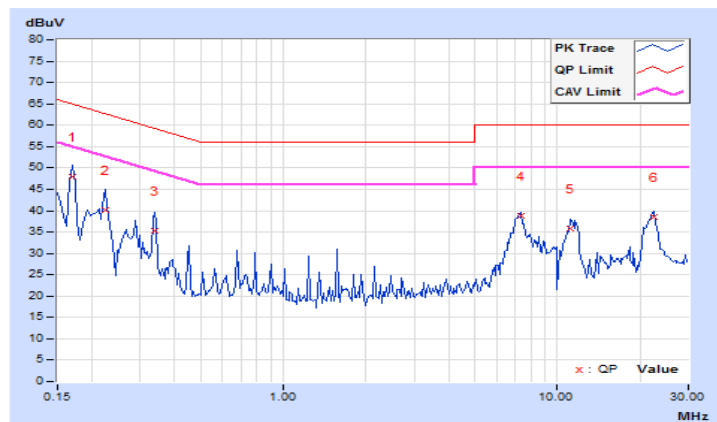
10.6 量測結果

操作模式	發射	測試日期	107 年 02 月 14 日
基本波頻率	Ch 149: 5745MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		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.
0.16953	10.13	37.75	33.96	47.88	44.09	64.98	54.98	-17.10	-10.89
0.22422	10.15	30.05	23.38	40.20	33.53	62.66	52.66	-22.46	-19.13
0.33750	10.17	25.15	14.90	35.32	25.07	59.26	49.26	-23.94	-24.19
7.33203	10.52	28.27	20.79	38.79	31.31	60.00	50.00	-21.21	-18.69
11.16797	10.71	25.22	13.32	35.93	24.03	60.00	50.00	-24.07	-25.97
22.37500	11.24	27.21	14.11	38.45	25.35	60.00	50.00	-21.55	-24.65

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.

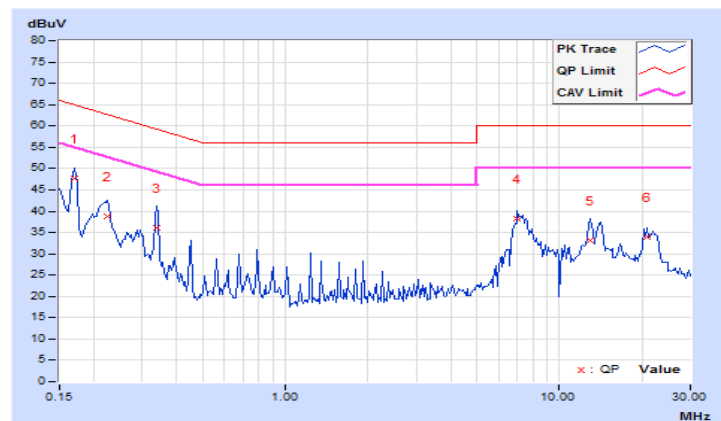


操作模式	發射	測試日期	107 年 02 月 14 日
基本波頻率	Ch 149: 5745MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	何欣儒		

		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.
0.16953	10.04	37.57	34.10	47.61	44.14	64.98	54.98	-17.37	-10.84
0.22422	10.04	28.81	23.47	38.85	33.51	62.66	52.66	-23.81	-19.15
0.33750	10.07	25.99	17.35	36.06	27.42	59.26	49.26	-23.20	-21.84
6.98828	10.36	27.94	25.33	38.30	35.69	60.00	50.00	-21.70	-14.31
12.96484	10.65	22.60	10.22	33.25	20.87	60.00	50.00	-26.75	-29.13
20.88281	11.02	23.05	22.78	34.07	33.80	60.00	50.00	-25.93	-16.20

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

請參照 Test Setup Photos

11 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

傳導輸出功率量測方法:

- 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。
- 計算其最大傳導輸出功率。

11.3 量測儀器

峰值傳導輸出功率量測儀器:同 7.3 節

發射頻寬之量測儀器: 同 6.3 節

11.4 測試配置

峰值傳導輸出功率測試配置:同 7.4 節

發射頻寬之測試配置: 同 6.4 節

11.5 峰值傳導輸出功率之量測結果

操作模式	發射	測試日期	107 年 02 月 27 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林俊鈞		

Master Mode / CDD Mode

802.11a

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.94	20.73	21.39	21.48	495.258	26.95	30.00	Pass
40	5200	20.24	21.15	21.32	21.53	513.751	27.11	30.00	Pass
48	5240	20.22	21.22	21.50	21.65	525.102	27.20	30.00	Pass
149	5745	22.30	23.84	24.86	23.96	967.009	29.85	30.00	Pass
157	5785	22.72	23.79	24.76	24.06	980.309	29.91	30.00	Pass
165	5825	22.24	23.02	24.39	23.59	871.29	29.40	30.00	Pass

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.72	20.97	21.38	21.34	492.33	26.92	30.00	Pass
40	5200	20.10	20.99	21.44	21.79	518.256	27.15	30.00	Pass
48	5240	20.13	21.02	21.26	21.64	509.054	27.07	30.00	Pass
149	5745	22.98	24.08	24.06	24.55	994.253	29.97	30.00	Pass
157	5785	22.26	23.58	23.57	23.86	867.031	29.38	30.00	Pass
165	5825	21.86	22.88	24.09	23.38	821.77	29.15	30.00	Pass

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.47	20.21	20.39	20.43	413.27	26.16	30.00	Pass
46	5230	23.05	23.64	24.32	23.87	947.22	29.76	30.00	Pass
151	5755	21.28	24.16	25.15	23.86	965.452	29.85	30.00	Pass
159	5795	21.10	23.44	24.97	23.51	888.064	29.48	30.00	Pass

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	10.52	13.11	13.66	13.19	75.808	18.80	30.00	Pass
155	5775	20.78	23.46	24.72	23.12	843.093	29.26	30.00	Pass

Master Mode / Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.72	20.97	21.38	21.34	492.33	26.92	27.71	Pass
40	5200	20.10	20.99	21.44	21.79	518.256	27.15	27.71	Pass
48	5240	20.13	21.02	21.26	21.64	509.054	27.07	27.71	Pass
149	5745	20.35	21.57	21.60	21.89	551.011	27.41	27.71	Pass
157	5785	20.25	21.59	21.54	21.84	545.455	27.37	27.71	Pass
165	5825	20.46	21.35	22.54	21.94	583.419	27.66	27.71	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.47	20.21	20.39	20.43	413.27	26.16	27.71	Pass
46	5230	21.04	21.56	22.30	21.74	589.379	27.70	27.71	Pass
151	5755	18.87	21.69	22.74	21.37	549.681	27.40	27.71	Pass
159	5795	19.12	21.42	22.89	21.48	555.475	27.45	27.71	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	10.52	13.11	13.66	13.19	75.808	18.80	27.71	Pass
155	5775	19.89	21.54	22.78	21.23	562.47	27.50	27.71	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

Client Mode / CDD Mode

802.11a

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	14.23	15.12	15.64	15.48	130.956	21.17	24.00	Pass
40	5200	14.38	15.30	15.38	15.53	131.541	21.19	24.00	Pass
48	5240	14.21	15.21	15.37	15.59	130.211	21.15	24.00	Pass
149	5745	22.30	23.84	24.86	23.96	967.009	29.85	30.00	Pass
157	5785	22.72	23.79	24.76	24.06	980.309	29.91	30.00	Pass
165	5825	22.24	23.02	24.39	23.59	871.29	29.40	30.00	Pass

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	13.98	15.11	15.46	15.53	128.32	21.08	24.00	Pass
40	5200	14.24	15.02	15.51	15.64	130.522	21.16	24.00	Pass
48	5240	14.10	14.90	15.45	15.66	128.495	21.09	24.00	Pass
149	5745	22.98	24.08	24.06	24.55	994.253	29.97	30.00	Pass
157	5785	22.26	23.58	23.57	23.86	867.031	29.38	30.00	Pass
165	5825	21.86	22.88	24.09	23.38	821.77	29.15	30.00	Pass

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.02	17.61	17.84	17.83	229.515	23.61	24.00	Pass
46	5230	17.16	17.64	18.67	17.98	246.503	23.92	24.00	Pass
151	5755	21.28	24.16	25.15	23.86	965.452	29.85	30.00	Pass
159	5795	21.10	23.44	24.97	23.51	888.064	29.48	30.00	Pass

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	10.52	13.11	13.66	13.19	75.808	18.80	24.00	Pass
155	5775	20.78	23.46	24.72	23.12	843.093	29.26	30.00	Pass

Client Mode / Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	13.98	15.11	15.46	15.53	128.32	21.08	21.71	Pass
40	5200	14.24	15.02	15.51	15.64	130.522	21.16	21.71	Pass
48	5240	14.10	14.90	15.45	15.66	128.495	21.09	21.71	Pass
149	5745	20.35	21.57	21.60	21.89	551.011	27.41	27.71	Pass
157	5785	20.25	21.59	21.54	21.84	545.455	27.37	27.71	Pass
165	5825	20.46	21.35	22.54	21.94	583.419	27.66	27.71	Pass

Note: 1. For UNII-1: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (8.29 - 6) = 21.71\text{dBm}$.
 2. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.01	15.77	15.89	15.94	147.532	21.69	21.71	Pass
46	5230	15.04	15.54	16.23	15.57	145.759	21.64	21.71	Pass
151	5755	18.87	21.69	22.74	21.37	549.681	27.40	27.71	Pass
159	5795	19.12	21.42	22.89	21.48	555.475	27.45	27.71	Pass

Note: 1. For UNII-1: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (8.29 - 6) = 21.71\text{dBm}$.
 2. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	10.52	13.11	13.66	13.19	75.808	18.80	21.71	Pass
155	5775	19.89	21.54	22.78	21.23	562.47	27.50	27.71	Pass

Note: 1. For UNII-1: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (8.29 - 6) = 21.71\text{dBm}$.
 2. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

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

	待測物操作頻帶	KDB 789033 D02 量測方法	KDB 662911 D01 量測方法
☒	5.15 GHz~5.25 GHz	☒ SA-1 ☐ SA-1 alternative ☒ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☒ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)
☐	5.25 GHz~5.35 GHz	☐ SA-1 ☐ SA-1 alternative ☐ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☐ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)
☐	5.470 GHz~5.725 GHz	☐ SA-1 ☐ SA-1 alternative ☐ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☐ Section E)2)a) ☐ Section E)2)b) ☐ Section E)2)c)
☒	5.725 GHz~5.850 GHz	☒ SA-1 ☐ SA-1 alternative ☒ SA-2 ☐ SA-2 alternative ☐ SA-3 ☐ SA-3 alternative	☐ Section E)2)a) ☐ Section E)2)b) ☒ Section E)2)c)

802.11ac (VHT20)**For U-NII-1:**

Using method SA-1

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

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. 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 $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value

802.11a, 802.11ac (VHT40), 802.11ac (VHT80)**For U-NII-1:**

Using method SA-2

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

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. 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 $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add $10 \log (1/\text{duty cycle})$

12.3 量測功率頻譜密度之儀器

同 9.3 節。

12.4 功率頻譜密度之測試配置

同 9.4 節

12.5 功率頻譜密度之量測結果

操作模式	發射	測試日期	107 年 02 月 27 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林俊鈞		

Master Mode

For U-NII-1:

802.11a

Chan.	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	Chain 2	Chain 3				
36	5180	6.23	6.92	7.60	7.40	0.14	13.22	14.71	Pass
40	5200	5.98	6.82	7.42	7.89	0.14	13.24	14.71	Pass
48	5240	6.10	7.20	7.78	7.70	0.14	13.40	14.71	Pass

- Note: 1. Method a) 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. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (8.29 - 6) = 14.71\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.73	6.93	7.85	8.26	13.32	14.71	Pass
40	5200	5.89	7.02	7.62	8.26	13.30	14.71	Pass
48	5240	5.90	7.10	7.39	8.26	13.26	14.71	Pass

- Note: 1. Method a) 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. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (8.29 - 6) = 14.71\text{dBm}$.

802.11ac (VHT40)

Chan.	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	Chain 2	Chain 3				
38	5190	1.44	3.33	3.47	3.79	0.13	9.25	14.71	Pass
46	5230	5.77	3.81	7.97	5.94	0.13	12.27	14.71	Pass

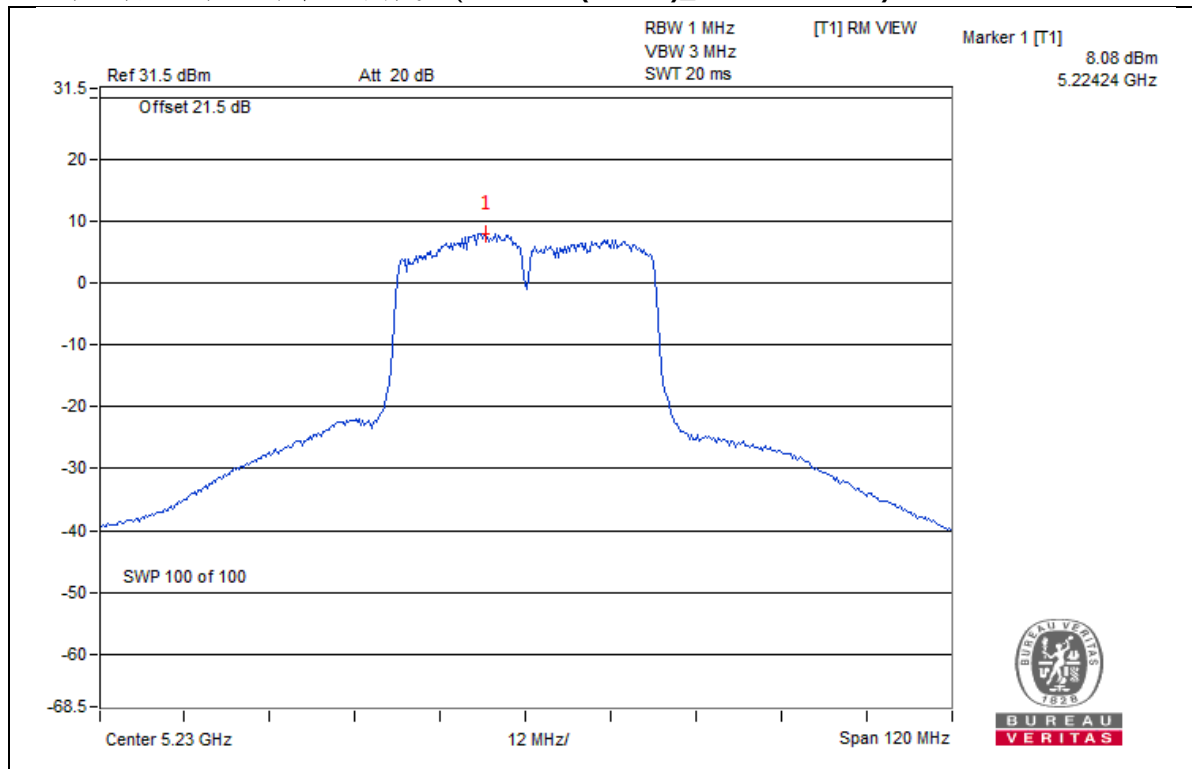
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.29-6) = 14.71\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	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	Chain 2	Chain 3				
42	5210	-9.92	-7.44	-5.90	-23.54	0.25	-2.40	14.71	Pass

- Note: 1. Method a) 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. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(8.29-6) = 14.71\text{dBm}$.
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。(802.11ac (VHT40)_Chain 2 / CH46)



For U-NII-3:

802.11a

TX chain	Chan.	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	0.02	2.24	6.02	0.14	8.40	27.71	Pass
	157	5785	0.86	3.08	6.02	0.14	9.24	27.71	Pass
	165	5825	0.70	2.92	6.02	0.14	9.08	27.71	Pass
1	149	5745	1.45	3.67	6.02	0.14	9.83	27.71	Pass
	157	5785	1.65	3.87	6.02	0.14	10.03	27.71	Pass
	165	5825	1.68	3.90	6.02	0.14	10.06	27.71	Pass
2	149	5745	3.97	6.19	6.02	0.14	12.35	27.71	Pass
	157	5785	4.32	6.54	6.02	0.14	12.70	27.71	Pass
	165	5825	3.45	5.67	6.02	0.14	11.83	27.71	Pass
3	149	5745	1.70	3.92	6.02	0.14	10.08	27.71	Pass
	157	5785	2.20	4.42	6.02	0.14	10.58	27.71	Pass
	165	5825	2.13	4.35	6.02	0.14	10.51	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

2. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Chan.	Chan. Freq. (MHz)	PSD		10 log (N=4) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-2.43	-0.21	6.02	5.81	27.71	Pass
	157	5785	-0.02	2.20	6.02	8.22	27.71	Pass
	165	5825	-0.12	2.10	6.02	8.12	27.71	Pass
1	149	5745	2.00	4.22	6.02	10.24	27.71	Pass
	157	5785	0.99	3.21	6.02	9.23	27.71	Pass
	165	5825	0.96	3.18	6.02	9.20	27.71	Pass
2	149	5745	3.90	6.12	6.02	12.14	27.71	Pass
	157	5785	3.37	5.59	6.02	11.61	27.71	Pass
	165	5825	3.58	5.80	6.02	11.82	27.71	Pass
3	149	5745	2.13	4.35	6.02	10.37	27.71	Pass
	157	5785	1.74	3.96	6.02	9.98	27.71	Pass
	165	5825	1.76	3.98	6.02	10.00	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(8.29-6) = 27.71\text{dBm}$.

802.11ac (VHT40)

TX chain	Chan.	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	5745	-4.21	-1.99	6.02	0.13	4.16	27.71	Pass
	159	5785	-4.44	-2.22	6.02	0.13	3.93	27.71	Pass
1	151	5745	-1.48	0.74	6.02	0.13	6.89	27.71	Pass
	159	5785	-1.74	0.48	6.02	0.13	6.63	27.71	Pass
2	151	5745	1.21	3.43	6.02	0.13	9.58	27.71	Pass
	159	5785	1.30	3.52	6.02	0.13	9.67	27.71	Pass
3	151	5745	-1.30	0.92	6.02	0.13	7.07	27.71	Pass
	159	5785	-1.60	0.62	6.02	0.13	6.77	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(8.29-6) = 27.71\text{dBm}$.

2. Refer to section 2.1 for duty cycle spectrum plot.

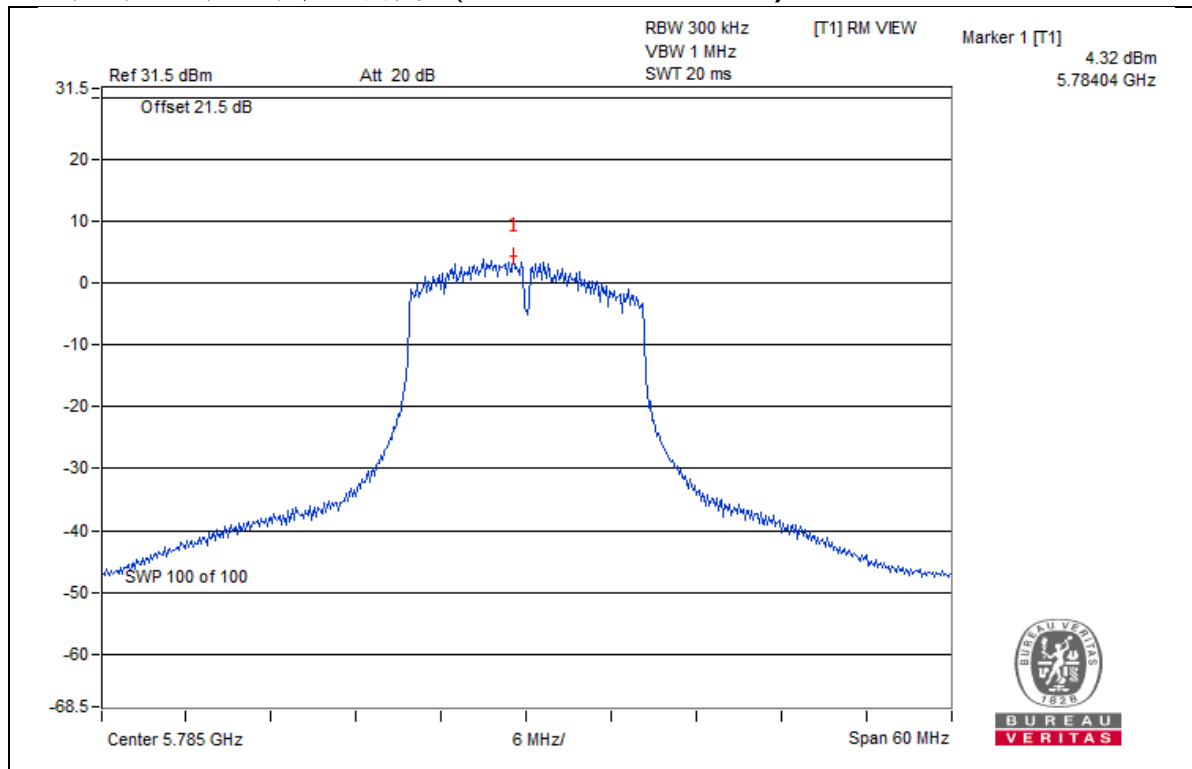
802.11ac (VHT80)

TX chain	Chan.	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	5745	-8.04	-5.82	6.02	0.25	0.45	27.71	Pass
1	155	5745	-5.61	-3.39	6.02	0.25	2.88	27.71	Pass
2	155	5745	-2.85	-0.63	6.02	0.25	5.64	27.71	Pass
3	155	5745	-5.57	-3.35	6.02	0.25	2.92	27.71	Pass

Note: 1. The $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dB} > 6\text{dB}$, so the power density limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

2. 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。(802.11a / Chain 2: CH157)



Client Mode

For U-NII-1:

802.11a

Chan.	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	Chain 2	Chain 3				
36	5180	0.06	1.26	2.43	0.67	0.14	7.35	8.71	Pass
40	5200	0.72	0.99	1.24	1.61	0.14	7.31	8.71	Pass
48	5240	0.17	1.53	2.15	0.72	0.14	7.36	8.71	Pass

- Note: 1. Method a) 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. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.29-6) = 8.71\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	-0.19	1.07	2.33	2.04	7.44	8.71	Pass
40	5200	-0.58	0.34	2.62	1.36	7.12	8.71	Pass
48	5240	0.00	0.80	2.06	2.00	7.32	8.71	Pass

- Note: 1. Method a) 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. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.29-6) = 8.71\text{dBm}$.

802.11ac (VHT40)

Chan.	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	Chain 2	Chain 3				
38	5190	-0.41	0.64	1.79	0.57	0.13	6.87	8.71	Pass
46	5230	-0.11	0.60	2.35	0.34	0.13	7.05	8.71	Pass

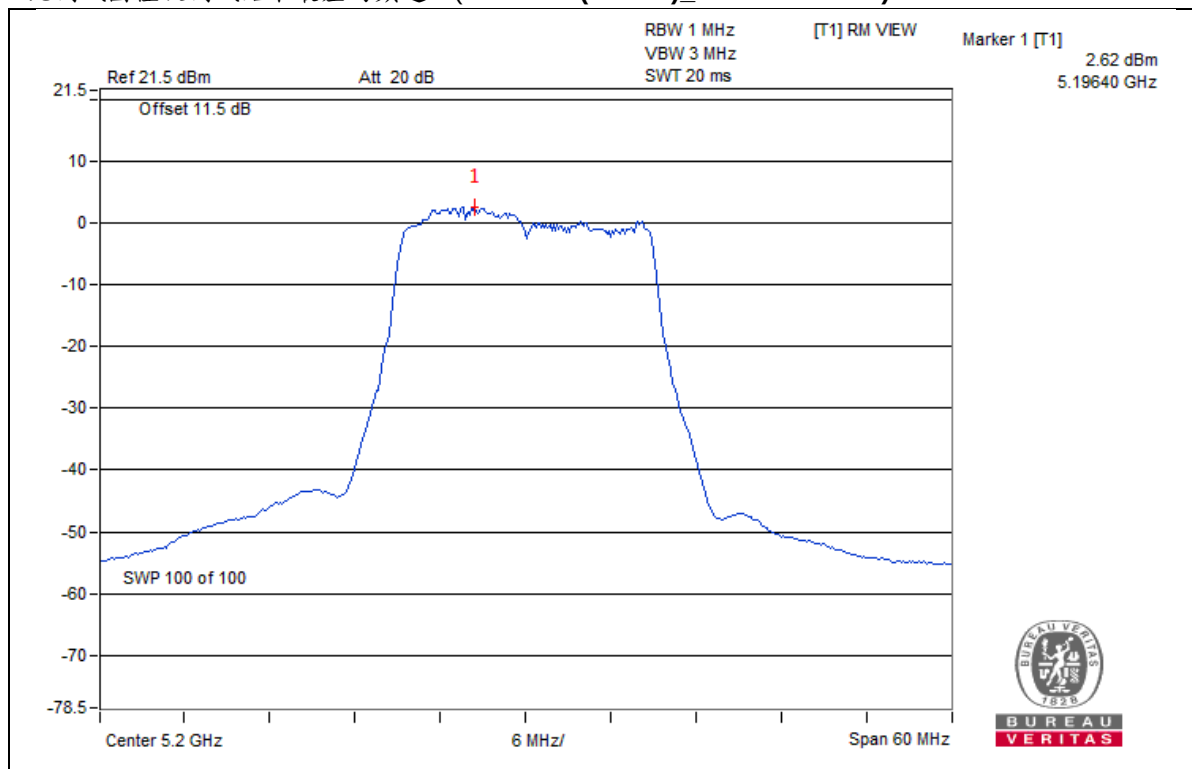
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(8.29-6) = 8.71\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	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	Chain 2	Chain 3				
42	5210	-9.92	-7.44	-5.90	-23.54	0.25	-2.40	8.71	Pass

- Note: 1. Method a) 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. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (8.29 - 6) = 8.71\text{dBm}$.
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。(802.11ac (VHT20)_Chain 2 / CH40)



For U-NII-3:

802.11a

TX chain	Chan.	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	0.02	2.24	6.02	0.14	8.40	27.71	Pass
	157	5785	0.86	3.08	6.02	0.14	9.24	27.71	Pass
	165	5825	0.70	2.92	6.02	0.14	9.08	27.71	Pass
1	149	5745	1.45	3.67	6.02	0.14	9.83	27.71	Pass
	157	5785	1.65	3.87	6.02	0.14	10.03	27.71	Pass
	165	5825	1.68	3.90	6.02	0.14	10.06	27.71	Pass
2	149	5745	3.97	6.19	6.02	0.14	12.35	27.71	Pass
	157	5785	4.32	6.54	6.02	0.14	12.70	27.71	Pass
	165	5825	3.45	5.67	6.02	0.14	11.83	27.71	Pass
3	149	5745	1.70	3.92	6.02	0.14	10.08	27.71	Pass
	157	5785	2.20	4.42	6.02	0.14	10.58	27.71	Pass
	165	5825	2.13	4.35	6.02	0.14	10.51	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

2. Refer to section 2.1 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Chan.	Chan. Freq. (MHz)	PSD		10 log (N=4) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-2.43	-0.21	6.02	5.81	27.71	Pass
	157	5785	-0.02	2.20	6.02	8.22	27.71	Pass
	165	5825	-0.12	2.10	6.02	8.12	27.71	Pass
1	149	5745	2.00	4.22	6.02	10.24	27.71	Pass
	157	5785	0.99	3.21	6.02	9.23	27.71	Pass
	165	5825	0.96	3.18	6.02	9.20	27.71	Pass
2	149	5745	3.90	6.12	6.02	12.14	27.71	Pass
	157	5785	3.37	5.59	6.02	11.61	27.71	Pass
	165	5825	3.58	5.80	6.02	11.82	27.71	Pass
3	149	5745	2.13	4.35	6.02	10.37	27.71	Pass
	157	5785	1.74	3.96	6.02	9.98	27.71	Pass
	165	5825	1.76	3.98	6.02	10.00	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(8.29-6) = 27.71\text{dBm}$.

802.11ac (VHT40)

TX chain	Chan.	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	5745	-4.21	-1.99	6.02	0.13	4.16	27.71	Pass
	159	5785	-4.44	-2.22	6.02	0.13	3.93	27.71	Pass
1	151	5745	-1.48	0.74	6.02	0.13	6.89	27.71	Pass
	159	5785	-1.74	0.48	6.02	0.13	6.63	27.71	Pass
2	151	5745	1.21	3.43	6.02	0.13	9.58	27.71	Pass
	159	5785	1.30	3.52	6.02	0.13	9.67	27.71	Pass
3	151	5745	-1.30	0.92	6.02	0.13	7.07	27.71	Pass
	159	5785	-1.60	0.62	6.02	0.13	6.77	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(8.29-6) = 27.71\text{dBm}$.

2. Refer to section 2.1 for duty cycle spectrum plot.

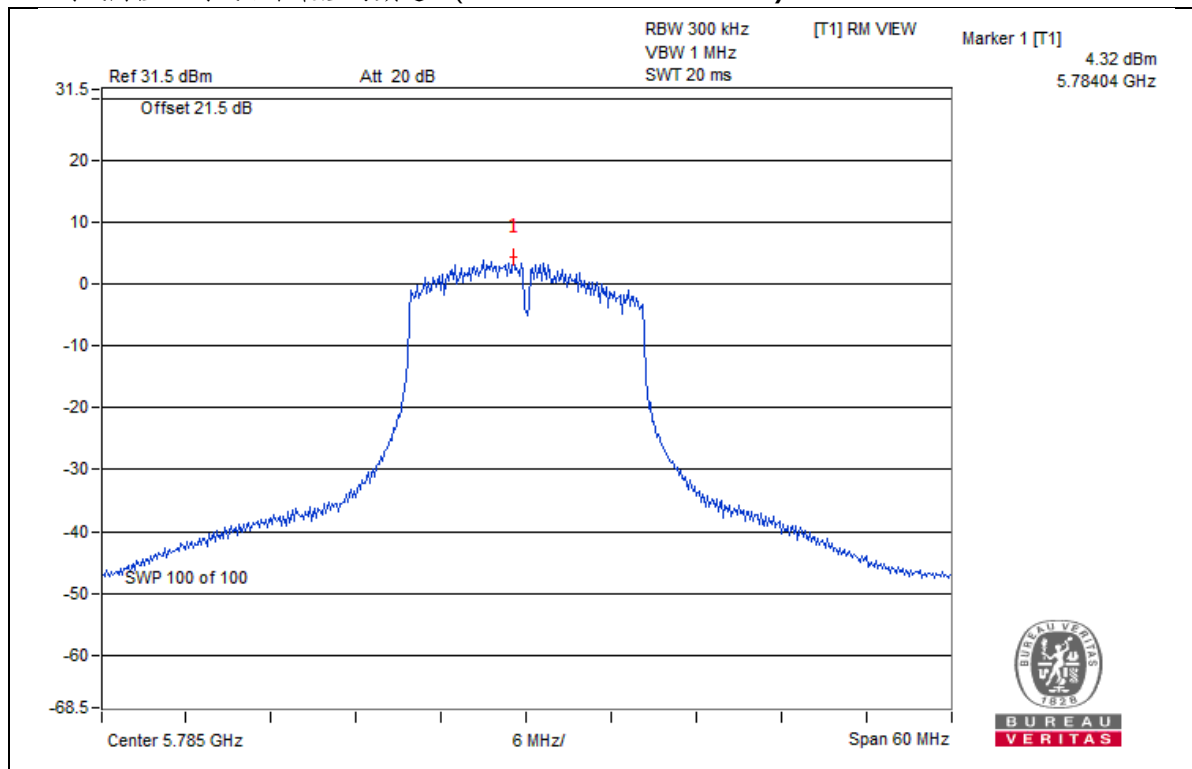
802.11ac (VHT80)

TX chain	Chan.	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	5745	-8.04	-5.82	6.02	0.25	0.45	27.71	Pass
1	155	5745	-5.61	-3.39	6.02	0.25	2.88	27.71	Pass
2	155	5745	-2.85	-0.63	6.02	0.25	5.64	27.71	Pass
3	155	5745	-5.57	-3.35	6.02	0.25	2.92	27.71	Pass

Note: 1. The Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 8.29\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (8.29 - 6) = 27.71\text{dBm}$.

2. 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。(802.11a / Chain 2: CH157)



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

同 6.2 節。

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	107 年 02 月 27 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林俊鈞		

Master Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.40	16.40	15.08	16.39	0.5	Pass
157	5785	16.40	16.41	15.14	16.37	0.5	Pass
165	5825	16.39	16.40	15.13	16.37	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	17.62	17.66	13.89	17.62	0.5	Pass
157	5785	17.63	17.64	15.03	17.62	0.5	Pass
165	5825	17.59	17.58	15.00	16.98	0.5	Pass

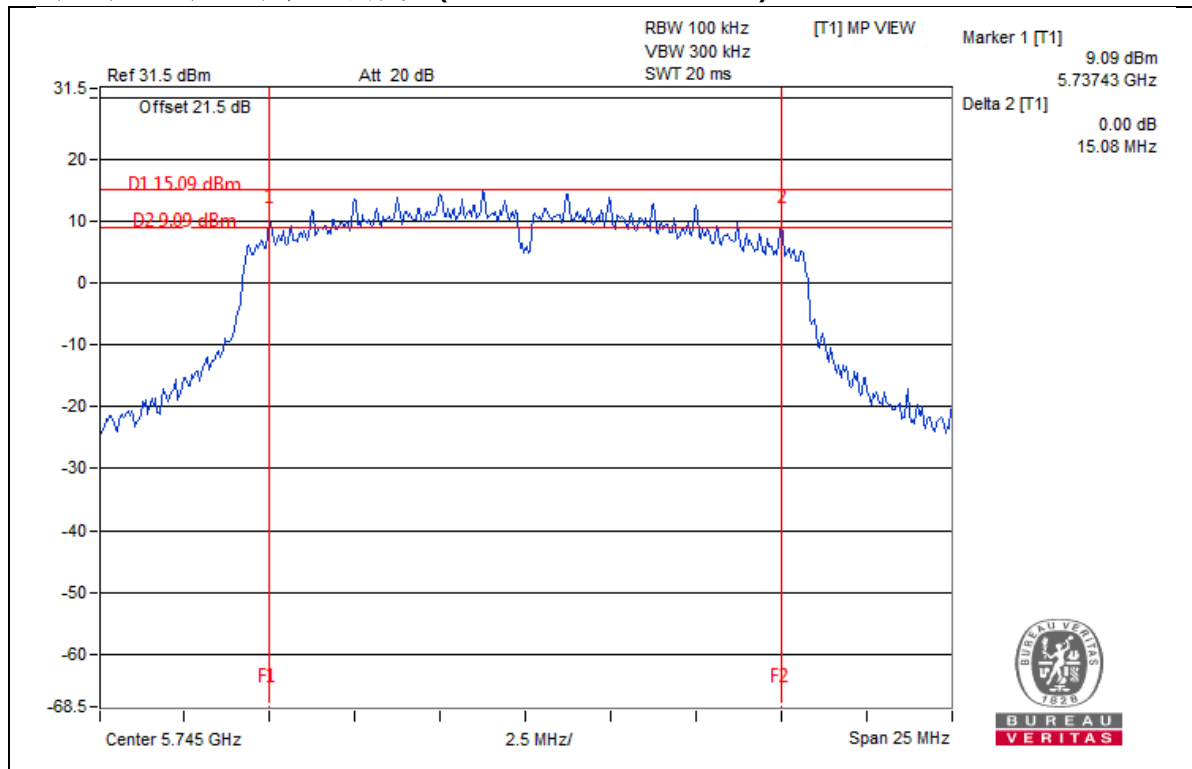
802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	35.19	35.69	36.25	35.18	0.5	Pass
159	5795	35.18	35.20	36.46	35.09	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	75.97	75.84	73.73	74.72	0.5	Pass

**此測試圖僅放測試結果最差的頻道。(802.11a / Chain 2: CH149)



Client Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.40	16.40	15.08	16.39	0.5	Pass
157	5785	16.40	16.41	15.14	16.37	0.5	Pass
165	5825	16.39	16.40	15.13	16.37	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	17.62	17.66	13.89	17.62	0.5	Pass
157	5785	17.63	17.64	15.03	17.62	0.5	Pass
165	5825	17.59	17.58	15.00	16.98	0.5	Pass

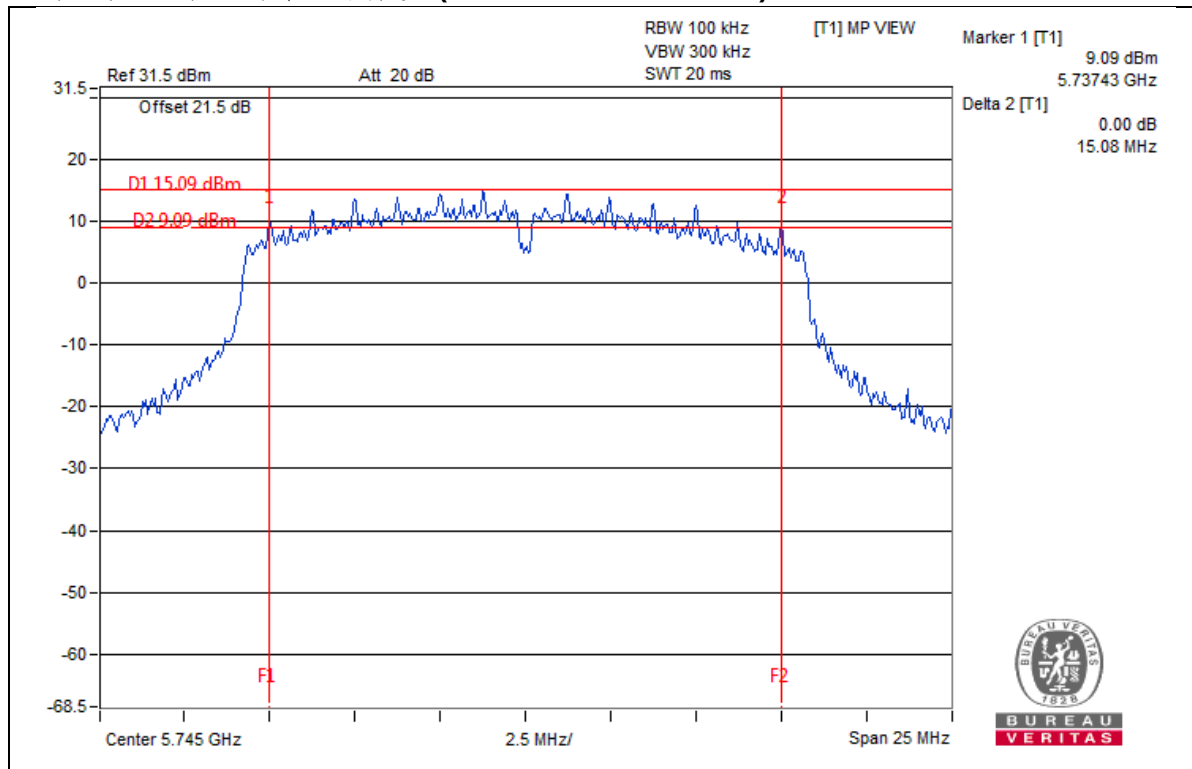
802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	35.19	35.69	36.25	35.18	0.5	Pass
159	5795	35.18	35.20	36.46	35.09	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	75.97	75.84	73.73	74.72	0.5	Pass

**此測試圖僅放測試結果最差的頻道。(802.11a / Chain 2: CH149)



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。

14 Radiated Out of Band Emisison (OOBE) Measurement (For U-NII-3 Band)

802.11a

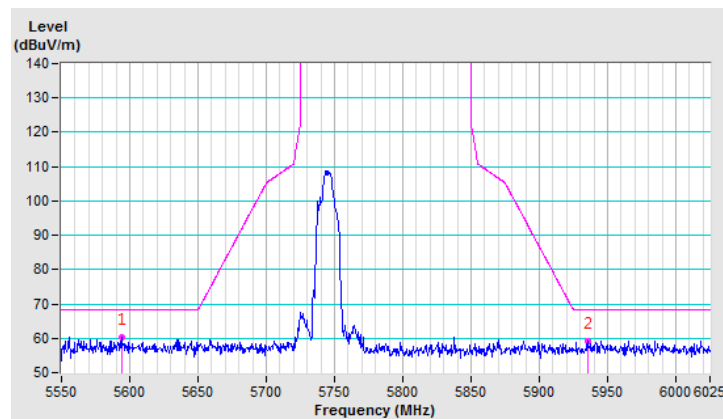
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 2 日	測試者：	江承舜

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	#5593.81	60.3 PK	68.2	-7.9	2.51 H	248	56.0	4.3
2	#5935.64	59.3 PK	68.2	-8.9	2.51 H	248	54.6	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



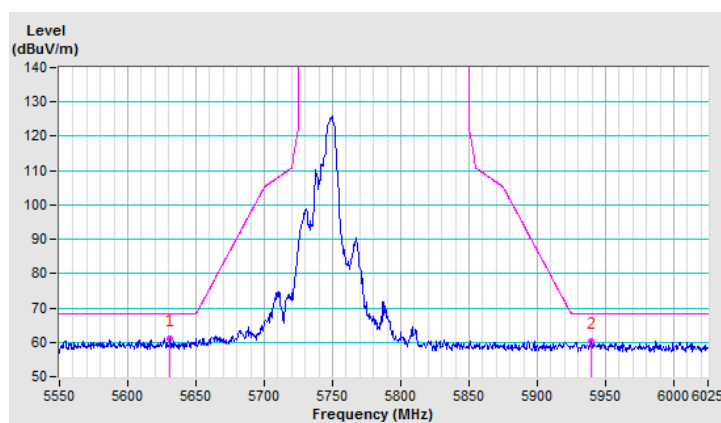
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5630.98	61.1 PK	68.2	-7.1	1.94 V	176	56.9	4.2
2	#5939.84	60.4 PK	68.2	-7.8	1.94 V	176	55.7	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



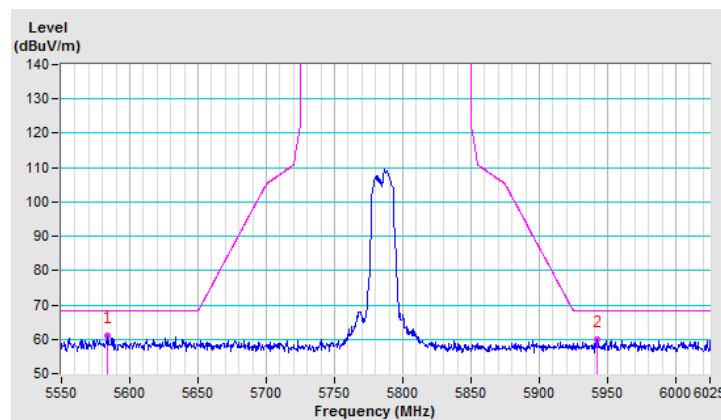
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 2 日	測試者：	江承舜

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	#5583.86	61.1 PK	68.2	-7.1	2.61 H	241	56.9	4.2
2	#5942.36	59.8 PK	68.2	-8.4	2.61 H	241	55.1	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



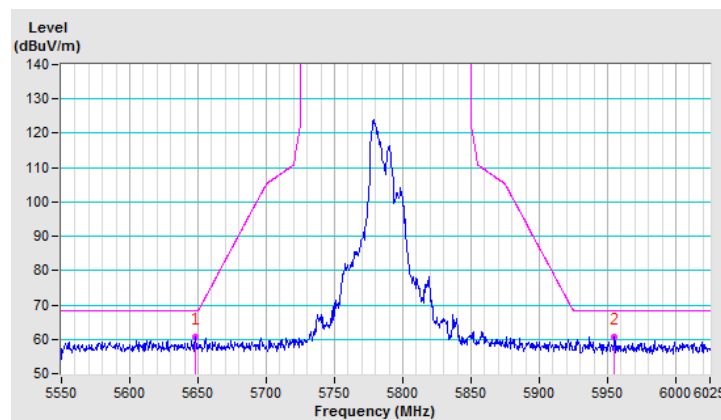
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5648.10	60.8 PK	68.2	-7.4	1.52 V	228	56.7	4.1
2	#5955.01	60.6 PK	68.2	-7.6	1.52 V	228	56.0	4.6

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



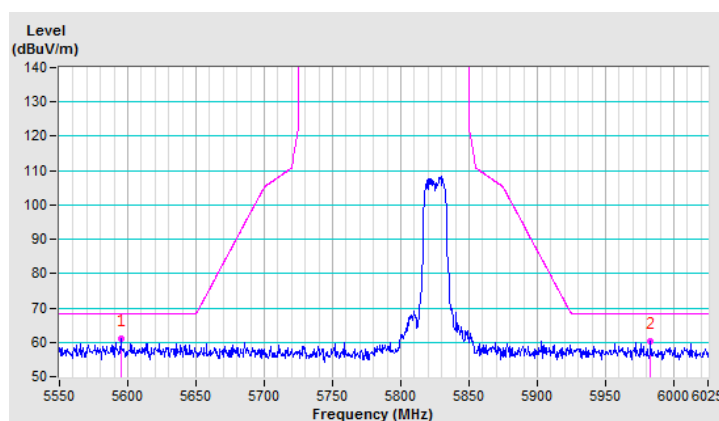
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 2 日	測試者：	江承舜

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	#5594.74	60.9 PK	68.2	-7.3	2.66 H	228	56.6	4.3
2	#5982.97	60.4 PK	68.2	-7.8	2.66 H	228	55.7	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



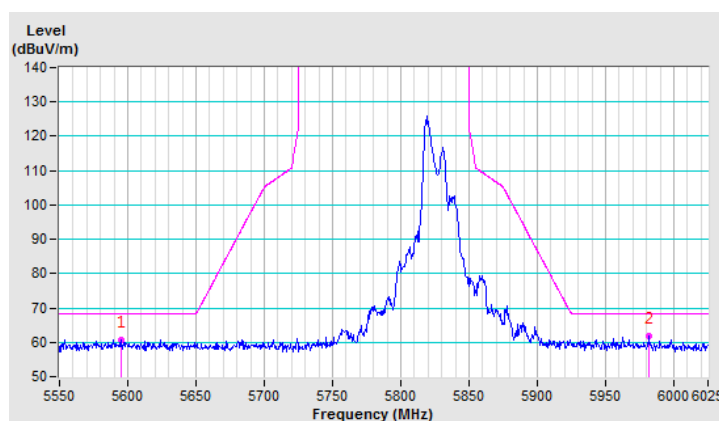
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5594.90	60.7 PK	68.2	-7.5	1.00 V	229	56.5	4.2
2	#5981.32	61.9 PK	68.2	-6.3	1.18 V	229	57.2	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



802.11ac (VHT20)

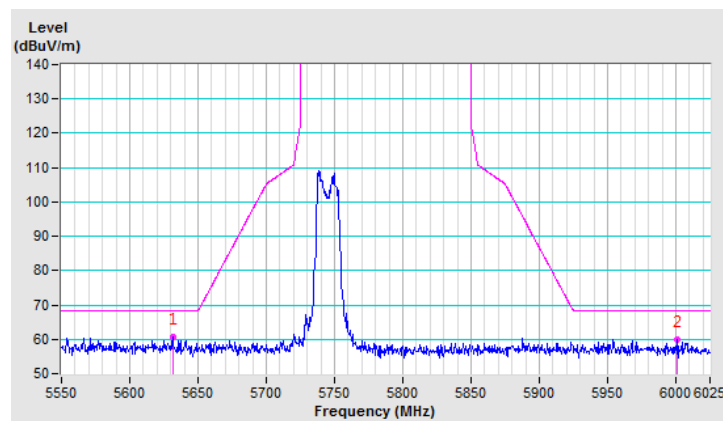
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24℃	量測場地濕度：	68%RH
測試日期：	107 年 3 月 2 日	測試者：	江承舜

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	#5631.60	60.6 PK	68.2	-7.6	2.68 H	234	56.2	4.4
2	#6000.83	60.0 PK	68.2	-8.2	2.68 H	234	55.2	4.8

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



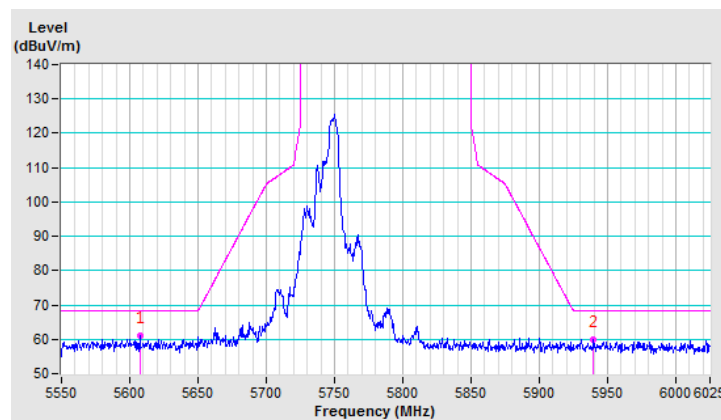
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5607.27	60.9 PK	68.2	-7.3	1.92 V	178	56.7	4.2
2	#5939.81	60.0 PK	68.2	-8.2	1.92 V	178	55.3	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



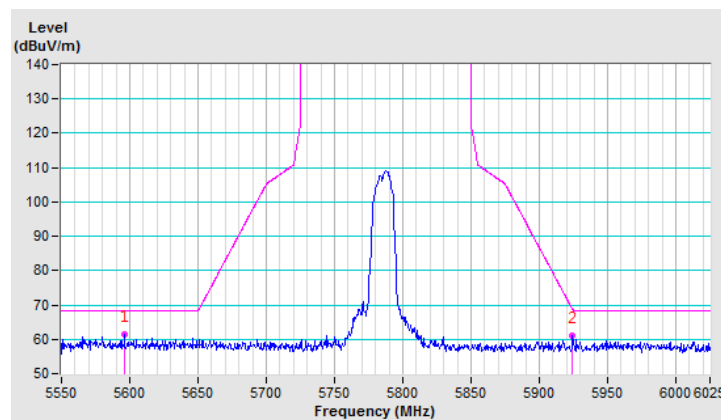
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 2 日	測試者：	江承舜

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	#5596.43	61.3 PK	68.2	-6.9	2.69 H	242	57.0	4.3
2	#5924.09	60.9 PK	68.9	-8.0	2.69 H	242	56.2	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



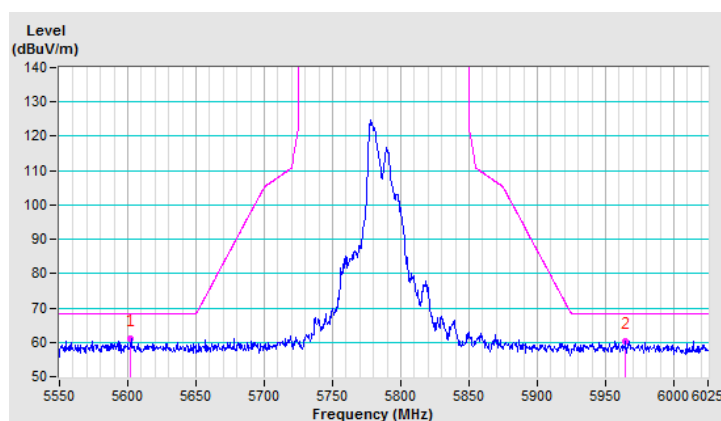
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5602.40	60.9 PK	68.2	-7.3	1.41 V	228	56.7	4.2
2	#5964.53	60.2 PK	68.2	-8.0	1.41 V	228	55.5	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



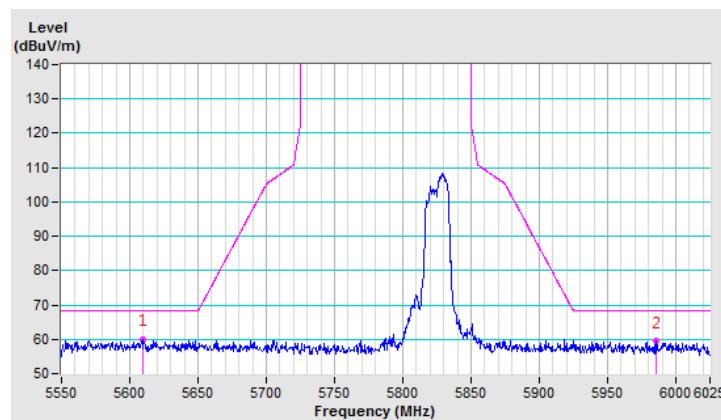
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 3 日	測試者：	江承舜

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	#5609.28	60.1 PK	68.2	-8.1	2.64 H	253	55.7	4.4
2	#5985.87	59.4 PK	68.2	-8.8	2.64 H	253	54.7	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



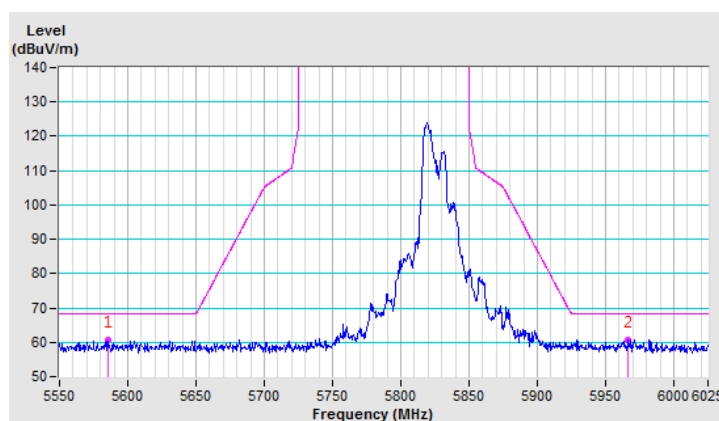
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基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5585.70	60.5 PK	68.2	-7.7	1.48 V	229	56.4	4.1
2	#5966.74	60.7 PK	68.2	-7.5	1.48 V	229	56.0	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



802.11ac (VHT40)

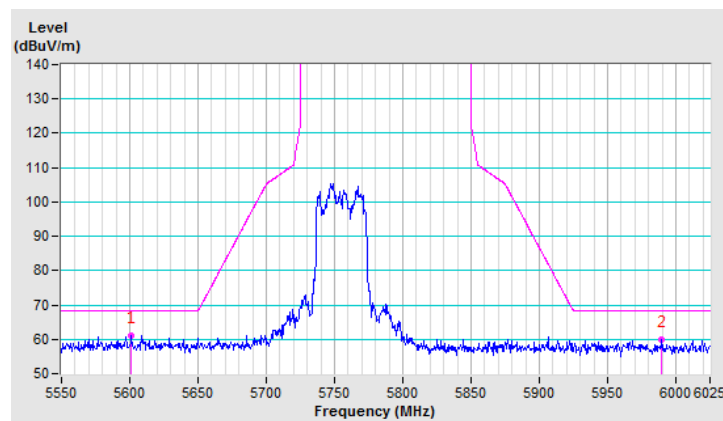
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24℃	量測場地濕度：	68%RH
測試日期：	107 年 3 月 3 日	測試者：	江承舜

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	#5601.40	61.2 PK	68.2	-7.0	2.07 H	265	56.8	4.4
2	#5989.59	59.8 PK	68.2	-8.4	2.07 H	265	55.1	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



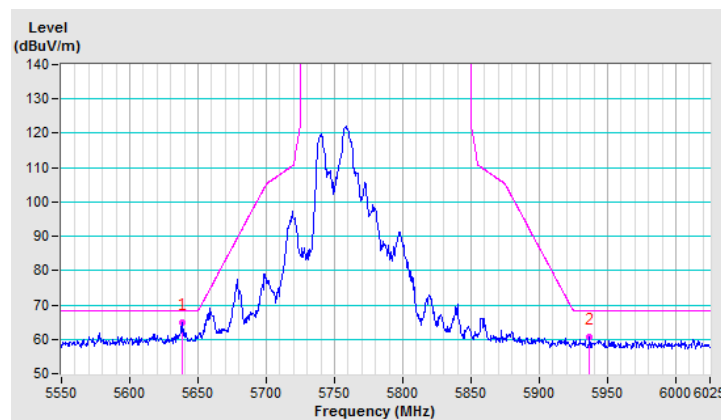
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 151 : 5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5638.22	64.9 PK	68.2	-3.3	2.04 V	176	60.8	4.1
2	#5936.71	60.8 PK	68.2	-7.4	2.04 V	176	56.1	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



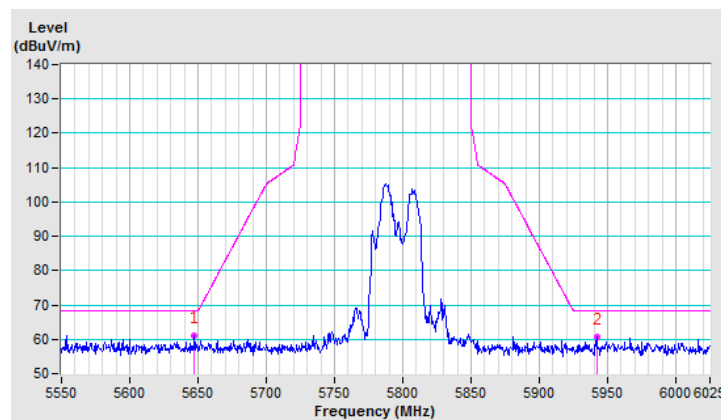
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 3 日	測試者：	江承舜

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	#5647.02	61.1 PK	68.2	-7.1	2.05 H	274	56.7	4.4
2	#5941.83	60.6 PK	68.2	-7.6	2.05 H	274	55.9	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



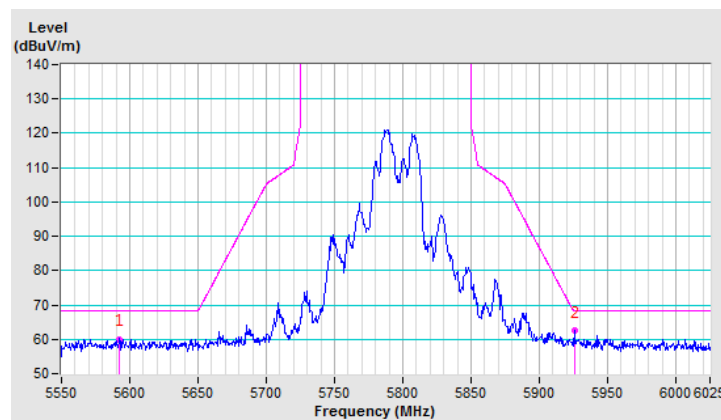
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5592.31	60.1 PK	68.2	-8.1	1.57 V	229	55.9	4.2
2	#5925.84	62.6 PK	68.2	-5.6	1.57 V	229	57.9	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



802.11ac (VHT80)

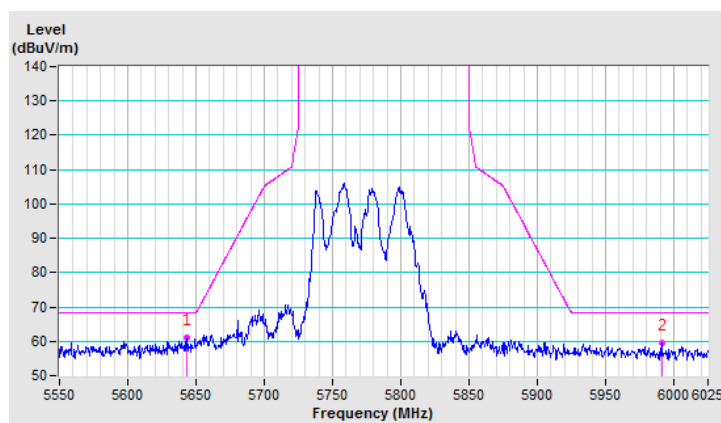
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	24°C	量測場地濕度：	68%RH
測試日期：	107 年 3 月 3 日	測試者：	江承舜

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	#5643.31	61.1 PK	68.2	-7.1	2.41 H	253	56.7	4.4
2	#5991.14	59.6 PK	68.2	-8.6	2.41 H	253	54.9	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



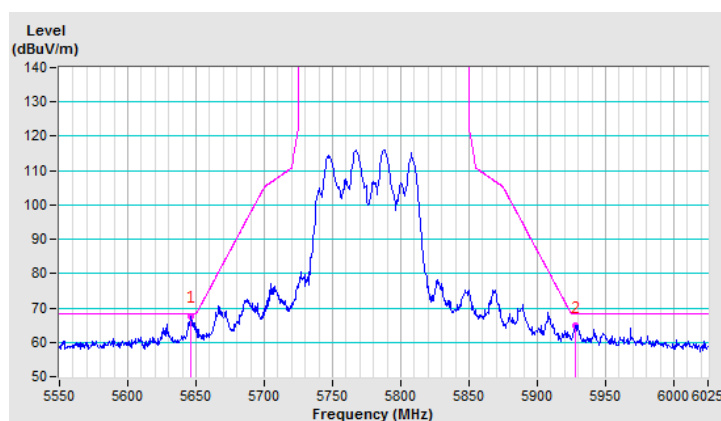
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 155 : 5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	68%RH
測試日期：	106 年 12 月 15 日	測試者：	江承舜

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	#5646.31	67.7 PK	68.2	-0.5	1.30 V	227	63.6	4.1
2	#5928.18	65.0 PK	68.2	-3.2	1.30 V	227	60.3	4.7

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. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " # ": The radiated frequency is out of the restricted band.



15 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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