

低功率射頻電機技術規範測試報告

報告編號.

RT190716E02B

申請者

網件有限公司

產品名稱

無線路由器 / 無線延伸器

型號

RBR850

系列型號

RBS850

製造廠商

Netgear, Inc.

商標或廠牌

NETGEAR

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

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報告簽署人簽章:

陳 瓊 美



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報告發行紀錄

Issue No.	Description	Date Issued
RT190716E02B	Original release.	108 年 11 月 21 日

證 明 書

產 品 名 稱：無線路由器/無線延伸器
商 標：NETGEAR
型 號：RBR850
系 列 型 號：RBS850
申 請 者：網件有限公司
量 測 規 範：低功率射頻電機技術規範 LP0002
ANSI C63.10-2013

香港商立德國際商品試驗有限公司桃園分公司在此證明上述待測設備樣品一組(型號：RBR850)，收件日期 108 年 07 月 17 日，於 108 年 08 月 21 日至 23 日，已在本公司的標準測試場地完成量測。報告中所描述之測試結果和待測設備的架構組合，均根據樣品實際的量測情況作詳實的記錄。

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

特 此 證 明 ！

報告製作者： 黃心薇，日期： 108 年 11 月 21 日
黃 心 薇 / 專 員

審 核 者： 陳瓊美，日期： 108 年 11 月 21 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：網件有限公司

製造廠商：Netgear, Inc.

申請廠商地址：台北市內湖區基湖路 3 巷 9 號 3 樓

廠牌：NETGEAR

產品名稱：無線路由器/無線延伸器

型號：RBR850

系列型號：RBS850

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

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

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

備註: 量測結果之判定不考慮量測不確定度的貢獻

2 一般敘述

2.1 待測設備

產品名稱：	無線路由器/無線延伸器
型號：	RBR850
系列型號：	RBS850
額定電源：	12Vdc from power adapter
調變方式：	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz mode 1024QAM for OFDMA in 11ax HE mode
調變技術：	DSSS, OFDM, OFDMA
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 802.11ax: up to 2401.9Mbps
載波頻率：	2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.18~ 5.25GHz, 5.745 ~ 5.825GHz
頻道數：	2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 11 802.11n (HT40), VHT40, 802.11ax (HE40): 7 5GHz (U-NII-1): 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 5GHz (U-NII-3): 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
發射功率：	Non-Beamforming Mode: 2.412 ~ 2.462 GHz: 29.97 dBm 5.18 ~ 5.24GHz: 29.66 dBm 5.745 ~ 5.825GHz: 29.97 dBm Beamforming Mode: 2.412 ~ 2.462 GHz: 29.94 dBm 5.18 ~ 5.24GHz: 29.53 dBm 5.745 ~ 5.825GHz: 29.47 dBm
天線種類：	見註
電源線類別：	NA
信號線類別：	NA
配件：	Adapter x 1, RJ45 cable x 1 (Unshielded, 1.8m)

註：

1. 此待測設備依銷售需求而設有下列兩個型號,詳列如下：

Product	Model	Difference
無線路由器	RBR850	Function:Master With Internet port x 1
無線延伸器	RBS850	Function:Master+Client Without Internet port

Note: From the above models, model: **RBR850** was the worst case and it was selected as representative model for the test and its data was recorded in this report.

2. 待測設備有以下 radio:

Radio 1	Radio 2	Radio 3
WLAN(2.4GHz)	WLAN 5GHz (low band)	WLAN 5GHz (high band)

3. 同時發射條件如下:

Condition	Technology		
1	WLAN 2.4GHz	WLAN 5GHz (low band)	WLAN 5GHz (high band)

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

4. 此待測設備之額定電源來自一充電源供應器, 詳列如下:

No.	Brand	Model No.	P/N	Spec.
1	NETGEAR	2ABN042F	332-11507-01	Input: 100-240Vac, 1.3A, 50/60Hz Output: 12V, 3.5A DC Output cable: Unshielded, 1.8m
2	NETGEAR	AD2150F10	332-11093-01	Input: 100-120Vac, 1.0A, 50/60Hz Output: 12V, 3.5A DC Output cable: Unshielded, 1.8m

5. 此待測設備之輻射場強量測項目,以下列模式進行評估:

Pre-test 模式	描述
A	Power from Adapter 1
B	Power from Adapter 2

◆ 於場強輻射以模式 B 具較大干擾值, 故以此擺放方式進行最終量測, 並將測試結果紀錄。

6. 此待測設備之傳導干擾量測項目,以下列模式進行評估:

Pre-test 模式	描述
A	Power from Adapter 1
B	Power from Adapter 2

◆ 於傳導干擾以模式 A 具較大干擾值, 故以此擺放方式進行最終量測, 並將測試結果紀錄。

7. 此待測設備搭配測試的天線, 其資料如下:

Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Antenna Connector
2.4~2.4835	6.01	Dipole	i-pex(MHF)
5.15~5.25	6.22		
5.725~5.85	6.52		

Note: More detailed information, please refer to Antenna Specification.

8. The EUT incorporates a MIMO function:

2.4GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	4TX	4RX
802.11g	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
VHT20	4TX	4RX
VHT40	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.
2. The EUT support Beamforming and non-beamforming mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz), therefore investigated worst case to representative mode in test report.

9. 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。

2.4GHz		
量測項目	發射	接收
1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11ax (HE20): Ch 1, 6, 11 802.11ax (HE40): Ch 3, 6, 9	Ch 6
其它不必要之訊號	802.11b: Ch 6	Ch 6
5GHz		
量測項目	發射	接收
1GHz 以上量測	802.11a: Ch 36, 40, 48, 149, 157, 165 802.11ax (HE20): Ch 36, 40, 48, 149, 157, 165 802.11ax (HE40): Ch 38, 46, 151, 159 802.11ax (HE80): Ch 42, 155	Ch 48, 159
其它不必要之訊號	For low band: 802.11a: Ch 48 For high band: 802.11ax (HE40): Ch 159	Ch 48, 159

*電源線傳導干擾量測經過評估後，2.4GHz 以 802.11b: Ch 6 測試模式進行最終量測，5GHz 以 802.11a: Ch 48 和 802.11ax (HE40): Ch 159 測試模式進行最終量測。

10. Duty cycle of test signal.

2.4 GHz 频段

Duty cycle of test signal is < 98 %, duty factor shall be considered.

802.11b: Duty cycle = $0.687/0.91 = 0.755$, Duty factor = $10 * \log(1/\text{Duty cycle}) = 1.22$

802.11g: Duty cycle = $1.974/2.095 = 0.942$, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.26$

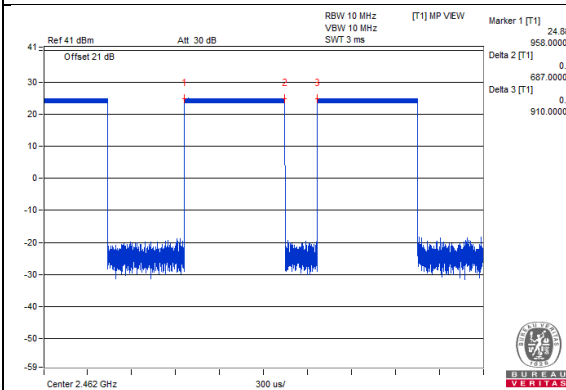
VHT20: Duty cycle = $5.422/5.662 = 0.958$, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.19$

VHT40: Duty cycle = $5.428/5.688 = 0.954$, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.2$

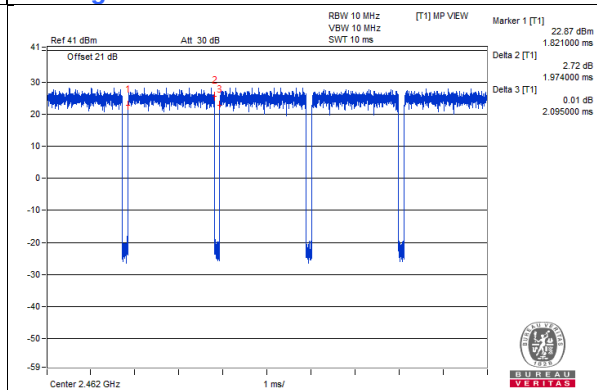
802.11ax (HE20): Duty cycle = $5.452/5.742 = 0.949$, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.23$

802.11ax (HE40): Duty cycle = $5.442/5.775 = 0.942$, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.26$

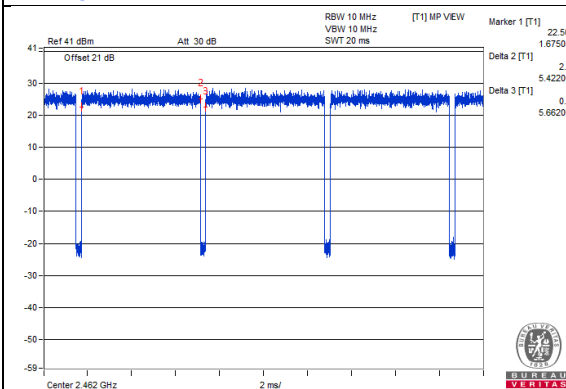
802.11b



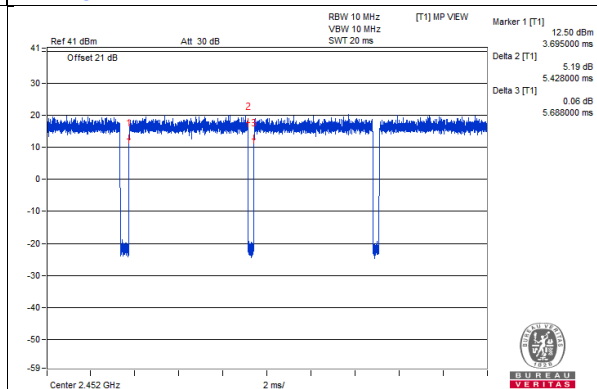
802.11g



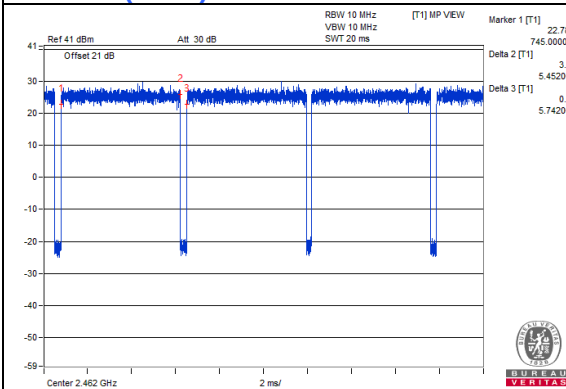
VHT20



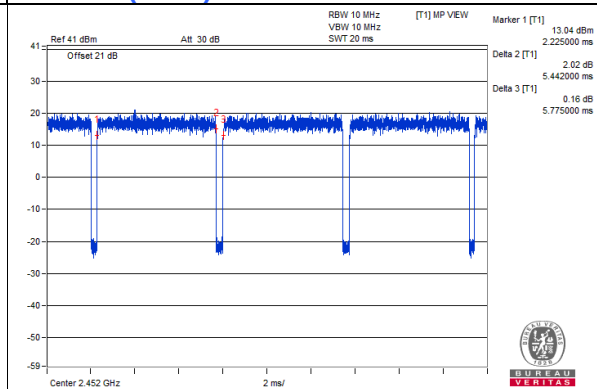
VHT40



802.11ax (HE20)



802.11ax (HE40)



5GHz 频段

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

For low band:

802.11a: Duty cycle = 1.972 ms/2.099 ms = 0.939, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.27$

802.11ac (VHT20): Duty cycle = 5.419 ms/5.692 ms = 0.952, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.21$

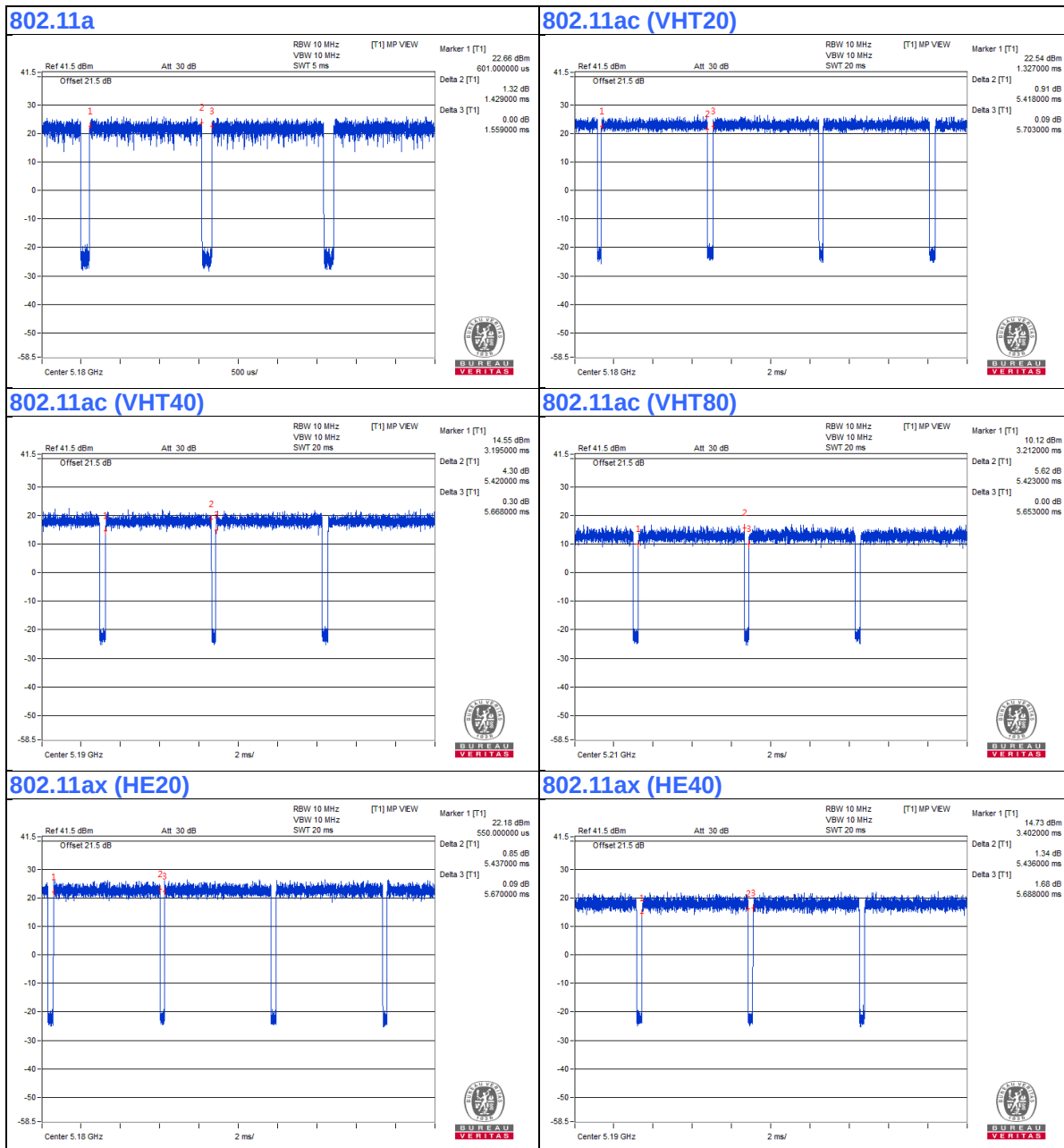
802.11ac (VHT40): Duty cycle = 5.41 ms/5.693 ms = 0.95, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.22$

802.11ac (VHT80): Duty cycle = 5.422 ms/5.668 ms = 0.957, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.19$

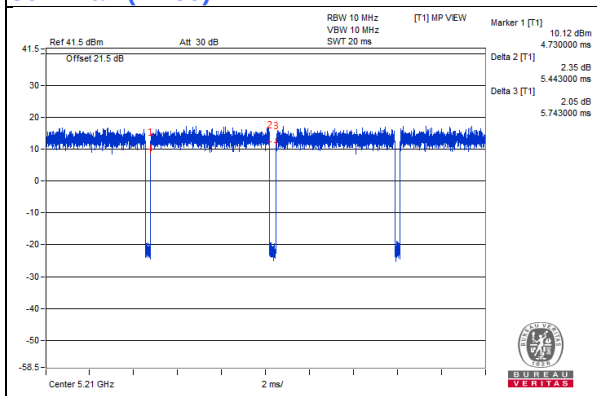
802.11ax (HE20): Duty cycle = 5.443 ms/5.7 ms = 0.955, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.20$

802.11ax (HE40): Duty cycle = 5.442 ms/5.734 ms = 0.949, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.23$

802.11ax (HE80): Duty cycle = 5.443 ms/5.764 ms = 0.944, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.25$



802.11ax (HE80)



For high band:

802.11a: Duty cycle = 1.971 ms/2.099 ms = 0.939, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.27$

802.11ac (VHT20): Duty cycle = 5.42 ms/5.683 ms = 0.954, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.21$

802.11ac (VHT40): Duty cycle = 5.423 ms/5.66 ms = 0.958, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.19$

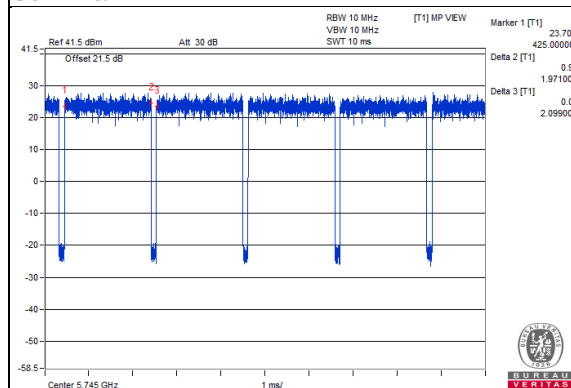
802.11ac (VHT80): Duty cycle = 5.419 ms/5.668 ms = 0.956, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.19$

802.11ax (HE20): Duty cycle = 5.443 ms/5.705 ms = 0.954, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.20$

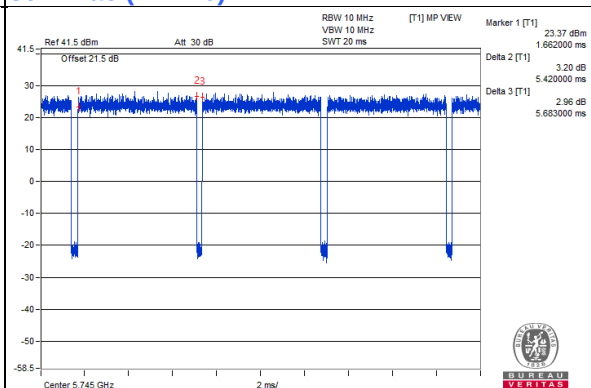
802.11ax (HE40): Duty cycle = 5.44 ms/5.668 ms = 0.96, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.18$

802.11ax (HE80): Duty cycle = 5.447 ms/5.7 ms = 0.956, Duty factor = $10 * \log(1/\text{Duty cycle}) = 0.20$

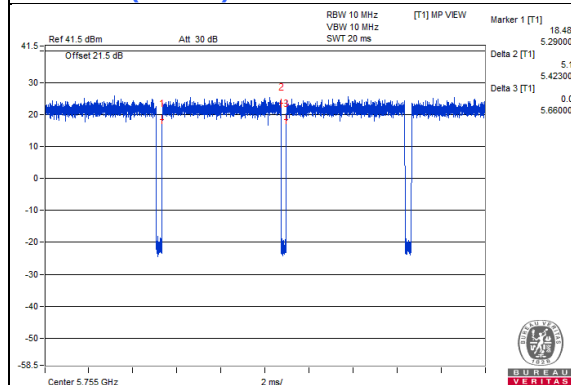
802.11a



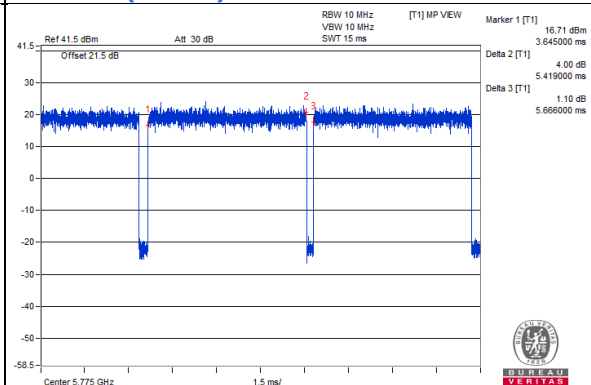
802.11ac (VHT20)



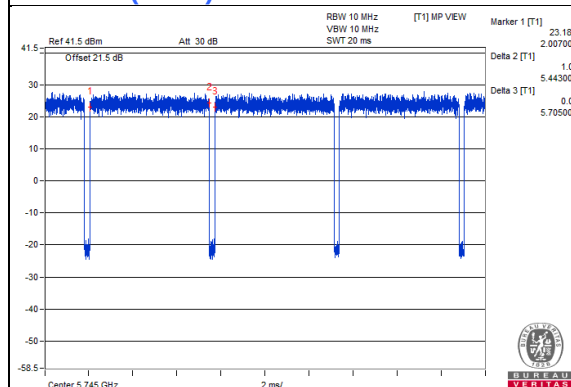
802.11ac (VHT40)



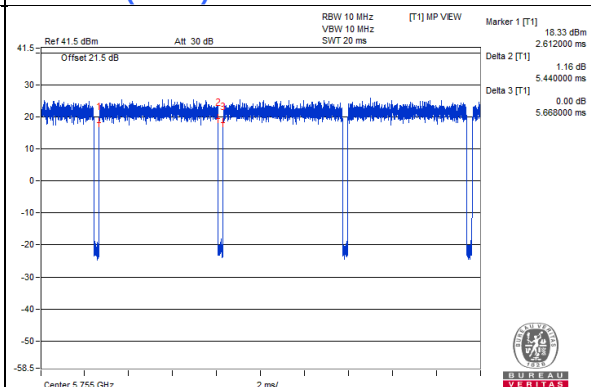
802.11ac (VHT80)



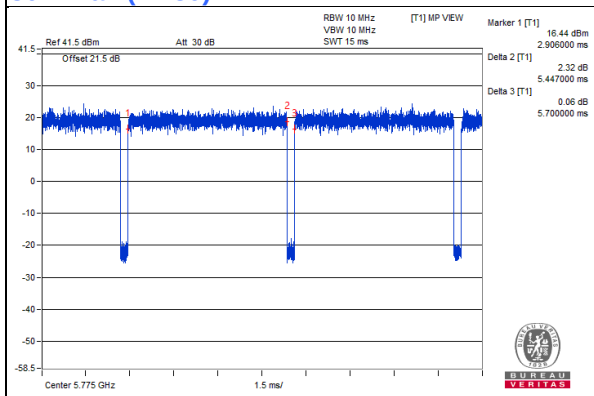
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



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), 802.11ax (HE20), VHT20:

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), 802.11ax (HE40), VHT40:

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), 802.11ax (HE20):

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

802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

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), 802.11ax (HE80):

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 編號:191108E09-1, 191108E09-2。

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。

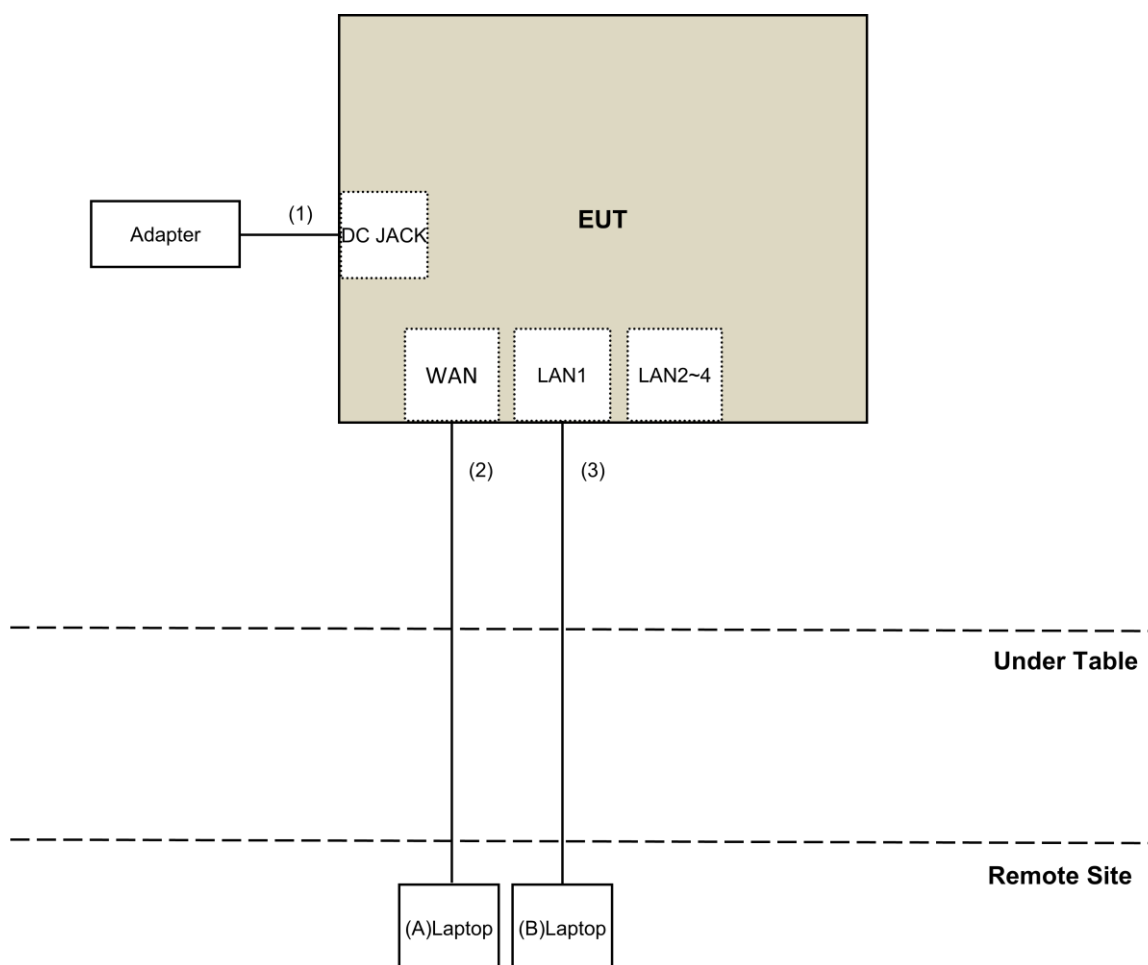
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	Inspiron 7570	DW3CSJ2	R43004	Provided by Lab
B.	Laptop	DELL	E6420	482T3R1	FCC DoC	Provided by Lab

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.	DC Cable	1	1.8	No	0	Supplied by client
2.	RJ-45 Cable	1	10	No	0	Provided by Lab
3.	RJ-45 Cable	1	10	No	0	Provided by Lab

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 及 5.470 GHz ~5.725 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.4.1 節之要求，帶外發射之有效等向輻射功率(EIRP) ≤ -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~5.850 GHz 頻段操作且天線增益大於 10dBi 之設備於 106 年 3 月 2 日前得適用 3.10.1.5 帶外發射限制；在 5.725 GHz~5.850 GHz 頻段操作且天線增益小於等於 10dBi 之設備於 107 年 3 月 2 日前得適用 3.10.1.5 帶外發射限制規定。

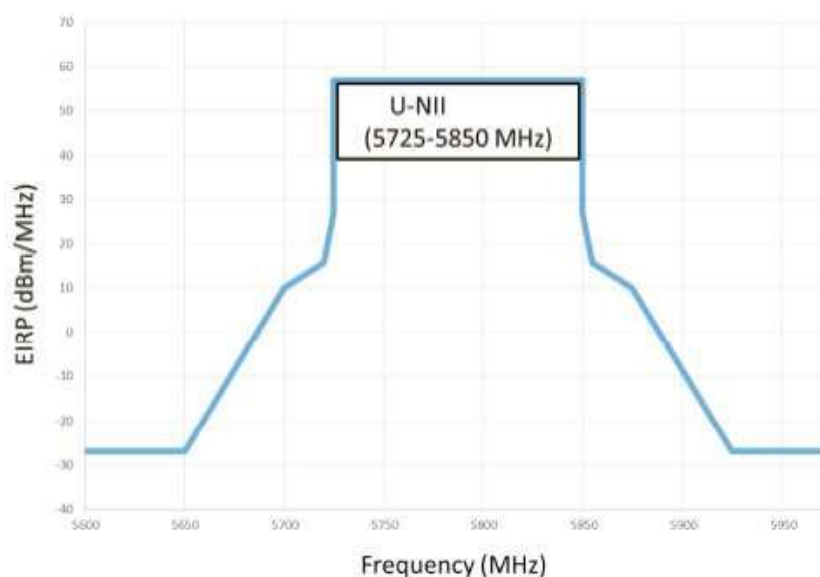


圖 1

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

規定。

頻率(MHz)	電場強度(微伏特/公尺, uV/m)	測距(公尺)
0.009 - 0.490(含)	2,400/f(kHz)	300
0.490 (不含) - 1.705 (含)	24,000/f(kHz)	30
1.705(不含) - 30 (不含)	30	30
30 (含) - 88 (含)	100	3
88 (不含)- 216 (含)	150	3
216 (不含)- 960 (含)	200	3
960 (不含)以上	500	3

(3)天線之規定

天線規格不受第 2.2 節規定之限制。

(4)天線增益之要求

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

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

- (A) 進行固定式點對點操作時，其發射天線之方向性增益超過6 dBi，每超過3 dBi，最大傳導輸出功率限制值應降低1 dB。
- (B) 天線以多向波束發射方式(含同時發射或循序發射)將訊號導向多個接收機或接收機群組時，應符合下列規定：
 - (a) 非同時發射多向波束者，所有載波或頻道傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合 3.10.1.2 之功率限制值。如天線/天線陣列群之方向性增益超過6 dBi，每超過3 dBi，總和傳導輸出功率限制值應降低1 dB。方向性增益值應計算如下：
 - (i) 方向性增益值= 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 5.25 GHz~5.35 GHz 與 5.470 GHz ~5.725 GHz 頻段：

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

(IV) 操作於 5.725 GHz~5.850 GHz 頻段：

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

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

(5) 6dB 頻寬之要求

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

對使用數位調變技術(digital modulation techniques)系統之低功率發射機，依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.6 節之規定，6dB 頻寬至少應有 500kHz。

(II) 操作於 5.725 GHz~5.850 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.5 節之規定，其 6dB 頻寬至少應有 500kHz。

(6) 傳導輸出功率之要求

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.2 節之規定：

數位調變技術系統：1 W(含)以下。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.1 節之要求：

(A) 供戶外操作使用/供室內操作使用/供固定式點對點操作使用：最大傳導輸出功率應小於或等於1 W。

(B) 供用戶端裝置(Client Device)操作使用：最大傳導輸出功率應小於或等於250 mW。

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

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.2節之規定，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B是26 dB發射頻寬，單位MHz)之較小者。

(IV) 操作於 5.725 GHz~5.850 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.3 節之規定，最大傳導輸出功率應小於或等於 1 W。

(7) 功率頻譜密度之要求

(I) 操作於 2.4000~2.4835 GHz band:

依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.6 節之規定，在使用頻率範圍之任一 3 kHz 頻寬內，由發射機傳導至天線之功率頻譜密度在任意傳輸期間內，皆小於或等於 8 毫分貝(dBm)，且應依 3.10.1.3 之方式降低功率頻譜密度限制值。

(II) 操作於 5.15 GHz~5.25 GHz 頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.1 節之要求：

(A) 供戶外操作使用/供室內操作使用/供固定式點對點操作使用：在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。

(B) 供用戶端裝置(Client Device)操作使用：在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。

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

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.3.2節之規定，最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。

(IV) 操作於5.725 GHz~5.850 GHz頻段：

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.3.3 節之規定，在任何 500 kHz 頻帶中最大功率頻譜密度應小於或等於 30 dBm。

(8) 發射功率控制(TPC)及動態頻率選擇(DFS)之要求

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

發射功率控制(TPC)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段的設備，應具備發射功率控制功能。設備必須至少具有6 dB低於平均EIRP 30 dBm的能力。EIRP 低於500 mW 之系統不須具備TPC 功能。

動態頻率選擇(DFS)：操作於5.25 GHz~5.35 GHz與5.470 GHz~5.725 GHz頻段之設備應具備動態頻率

選擇雷達偵測功能並啟動之，以完整偵測使用頻帶內之雷達訊號，避免與雷達系統同頻道操作。相關規定如下：

(1) 最低動態頻率選擇的偵測門檻

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

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

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

(3) 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在偵測到雷達訊號後，該期間內的傳輸應維持最多200 毫秒的正常通訊。另外，間歇性的管理與控制訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

(5) 不可佔用期間：某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統，至少須有30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

(9)無線資訊傳輸設備必須擁有安全功能之要求:

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

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

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

(12)電波暴露量之評估

依據國家通訊傳播委員會低功率射頻電機技術規範 5.20.2 節之規定，若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure，MPE)以證明其符合電波暴露量之要求。

限制值如下：

(1) 職業性/可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

(2) 一般人/不可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：MHz。

3.2 限制使用之頻帶

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

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

2.4 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 Keysight	N9038A	MY54450088	July 03, 2019	July 02, 2020
Pre-Amplifier EMCI	EMC001340	980142	May 30, 2019	May 29, 2020
Loop Antenna Electro-Metrics	EM-6879	264	Jan. 22, 2019	Jan. 21, 2020
RF Cable	NA	LOOPCAB-001	Jan. 14, 2019	Jan. 13, 2020
RF Cable	NA	LOOPCAB-002	Jan. 14, 2019	Jan. 13, 2020
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Oct. 30, 2018	Oct. 29, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 22, 2018	Nov. 21, 2019
RF Cable	8D	966-4-1	Mar. 19, 2019	Mar. 18, 2020
RF Cable	8D	966-4-2	Mar. 19, 2019	Mar. 18, 2020
RF Cable	8D	966-4-3	Mar. 19, 2019	Mar. 18, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Sep. 27, 2018	Sep. 26, 2019
Horn Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980385	Aug. 15, 2019	Aug. 14, 2020
RF Cable	EMC104-SM-SM-1200	160923	Jan. 28, 2019	Jan. 27, 2020
RF Cable	104 RF cable	131215	Jan. 10, 2019	Jan. 09, 2020
RF Cable	EMC104-SM-SM-6000	180418	May 03, 2019	May 02, 2020
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	NA	NA

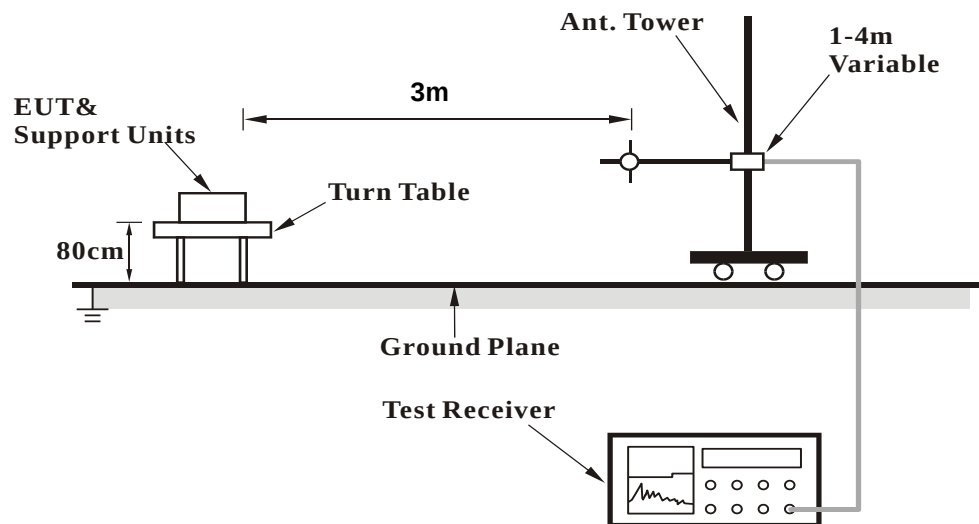
Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Loop antenna was used for all emissions below 30 MHz.
5. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

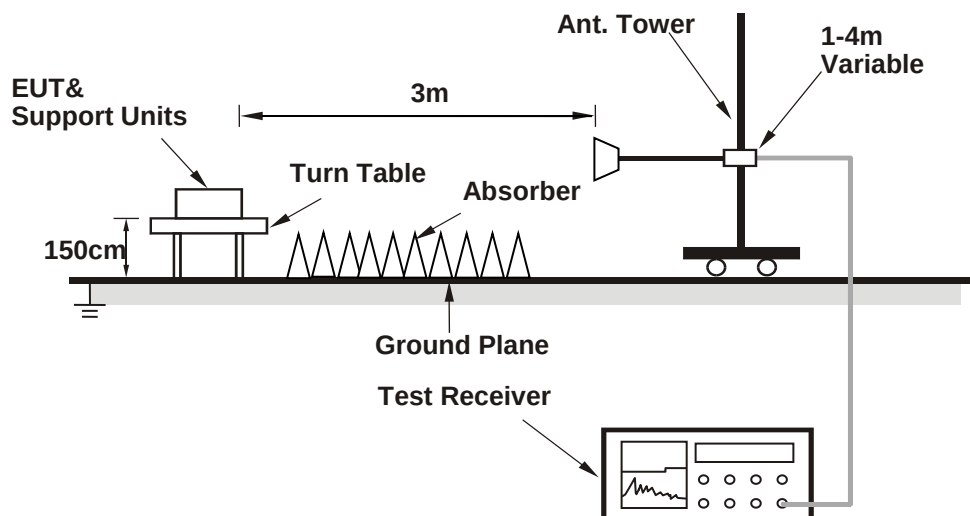
Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 1GHz	4.9 dB
	1GHz ~6GHz	5.1 dB
	6GHz ~ 18GHz	4.9 dB
	18GHz ~ 40GHz	5.2 dB

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

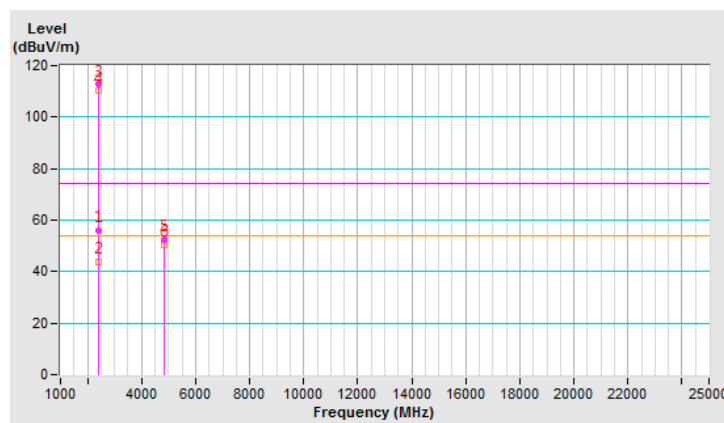
802.11b

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=1MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	56.0 PK	74.0	-18.0	2.11 H	156	57.6	-1.6
2	2390.00	43.8 AV	54.0	-10.2	2.11 H	156	45.4	-1.6
3	*2412.00	112.7 PK			2.11 H	156	114.4	-1.7
4	*2412.00	110.1 AV			2.11 H	156	111.8	-1.7
5	4824.00	52.4 PK	74.0	-21.6	2.30 H	223	50.1	2.3
6	4824.00	50.3 AV	54.0	-3.7	2.30 H	223	48.0	2.3
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

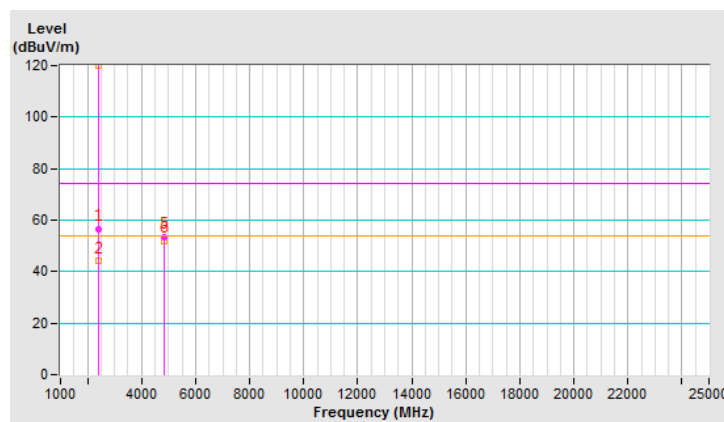


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	56.3 PK	74.0	-17.7	3.13 V	45	57.9	-1.6
2	2390.00	44.0 AV	54.0	-10.0	3.13 V	45	45.6	-1.6
3	*2412.00	122.6 PK			3.13 V	45	124.3	-1.7
4	*2412.00	120.0 AV			3.13 V	45	121.7	-1.7
5	4824.00	53.3 PK	74.0	-20.7	2.14 V	217	51.0	2.3
6	4824.00	51.8 AV	54.0	-2.2	2.14 V	217	49.5	2.3
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)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": 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.

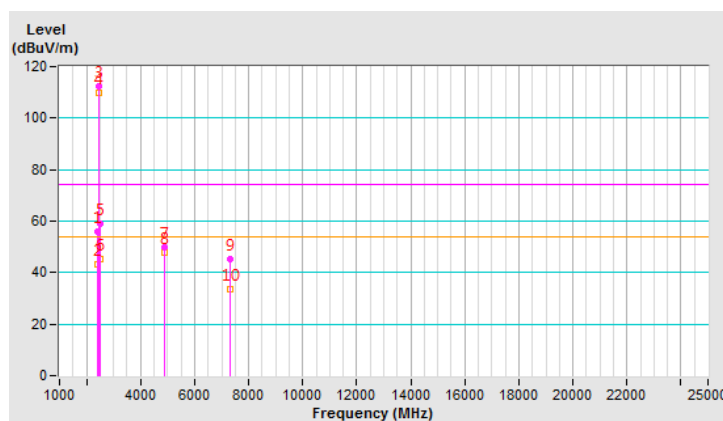


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	55.9 PK	74.0	-18.1	2.09 H	147	57.5	-1.6
2	2390.00	43.2 AV	54.0	-10.8	2.09 H	147	44.8	-1.6
3	*2437.00	112.3 PK			2.09 H	147	114.1	-1.8
4	*2437.00	110.0 AV			2.09 H	147	111.8	-1.8
5	2483.50	59.0 PK	74.0	-15.0	2.09 H	147	60.7	-1.7
6	2483.50	45.5 AV	54.0	-8.5	2.09 H	147	47.2	-1.7
7	4874.00	49.9 PK	74.0	-24.1	1.83 H	233	47.5	2.4
8	4874.00	47.7 AV	54.0	-6.3	1.83 H	233	45.3	2.4
9	7311.00	45.1 PK	74.0	-28.9	1.62 H	266	35.9	9.2
10	7311.00	33.8 AV	54.0	-20.2	1.62 H	266	24.6	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

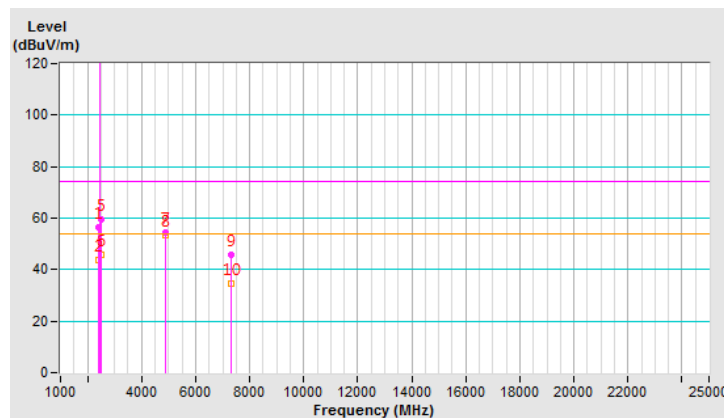


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	56.4 PK	74.0	-17.6	2.79 V	69	58.0	-1.6
2	2390.00	43.8 AV	54.0	-10.2	2.79 V	69	45.4	-1.6
3	*2437.00	123.7 PK			2.79 V	69	125.5	-1.8
4	*2437.00	121.3 AV			2.79 V	69	123.1	-1.8
5	2483.50	59.4 PK	74.0	-14.6	2.79 V	69	61.1	-1.7
6	2483.50	46.0 AV	54.0	-8.0	2.79 V	69	47.7	-1.7
7	4874.00	54.6 PK	74.0	-19.4	1.93 V	216	52.2	2.4
8	4874.00	53.5 AV	54.0	-0.5	1.93 V	216	51.1	2.4
9	7311.00	45.6 PK	74.0	-28.4	1.70 V	181	36.4	9.2
10	7311.00	34.6 AV	54.0	-19.4	1.70 V	181	25.4	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

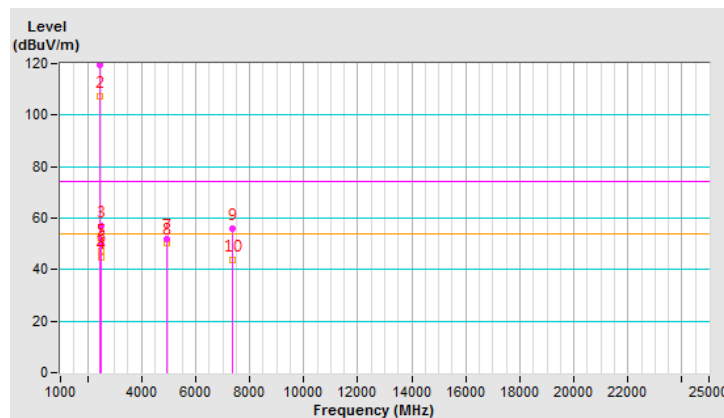


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	119.5 PK			2.06 H	159	121.3	-1.8
2	*2462.00	107.4 AV			2.06 H	159	109.2	-1.8
3	2483.50	57.1 PK	74.0	-16.9	2.06 H	159	58.8	-1.7
4	2483.50	44.9 AV	54.0	-9.1	2.06 H	159	46.6	-1.7
5	2488.70	49.8 PK	74.0	-24.2	2.08 H	138	51.5	-1.7
6	2488.70	47.5 AV	54.0	-6.5	2.08 H	138	49.2	-1.7
7	4924.00	52.1 PK	74.0	-21.9	2.21 H	224	49.6	2.5
8	4924.00	50.2 AV	54.0	-3.8	2.21 H	224	47.7	2.5
9	7386.00	56.0 PK	74.0	-18.0	1.77 H	265	46.6	9.4
10	7386.00	43.9 AV	54.0	-10.1	1.77 H	265	34.5	9.4
11	#9848.00	-	-	-	-	-	-	-
12	12310.00	-	-	-	-	-	-	-
13	#14772.00	-	-	-	-	-	-	-
14	#17234.00	-	-	-	-	-	-	-
15	19696.00	-	-	-	-	-	-	-
16	22158.00	-	-	-	-	-	-	-
17	#24620.00	-	-	-	-	-	-	-

REMARKS:

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

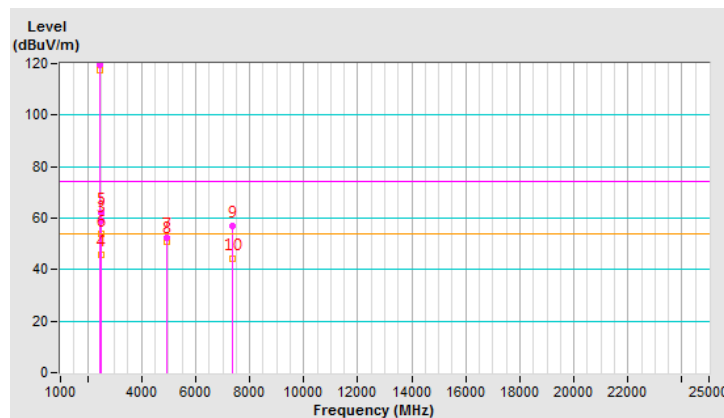


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	119.7 PK			2.32 V	38	121.5	-1.8
2	*2462.00	117.3 AV			2.32 V	38	119.1	-1.8
3	2483.50	58.9 PK	74.0	-15.1	2.32 V	38	60.6	-1.7
4	2483.50	45.7 AV	54.0	-8.3	2.32 V	38	47.4	-1.7
5	2488.70	61.9 PK	74.0	-12.1	2.32 V	38	63.6	-1.7
6	2488.70	53.7 AV	54.0	-0.3	2.32 V	38	55.4	-1.7
7	4924.00	52.6 PK	74.0	-21.4	3.05 V	211	50.1	2.5
8	4924.00	50.7 AV	54.0	-3.3	3.05 V	211	48.2	2.5
9	7386.00	56.9 PK	74.0	-17.1	1.60 V	177	47.5	9.4
10	7386.00	44.2 AV	54.0	-9.8	1.60 V	177	34.8	9.4
11	#9848.00	-	-	-	-	-	-	-
12	12310.00	-	-	-	-	-	-	-
13	#14772.00	-	-	-	-	-	-	-
14	#17234.00	-	-	-	-	-	-	-
15	19696.00	-	-	-	-	-	-	-
16	22158.00	-	-	-	-	-	-	-
17	#24620.00	-	-	-	-	-	-	-

REMARKS:

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



802.11g

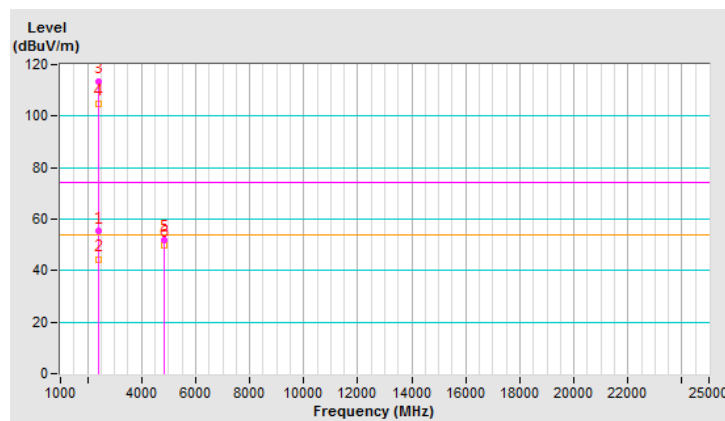
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	55.2 PK	74.0	-18.8	2.37 H	146	56.8	-1.6
2	2390.00	44.4 AV	54.0	-9.6	2.37 H	146	46.0	-1.6
3	*2412.00	113.3 PK			2.37 H	146	115.0	-1.7
4	*2412.00	104.9 AV			2.37 H	146	106.6	-1.7
5	4824.00	52.0 PK	74.0	-22.0	2.27 H	212	49.7	2.3
6	4824.00	50.0 AV	54.0	-4.0	2.27 H	212	47.7	2.3
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

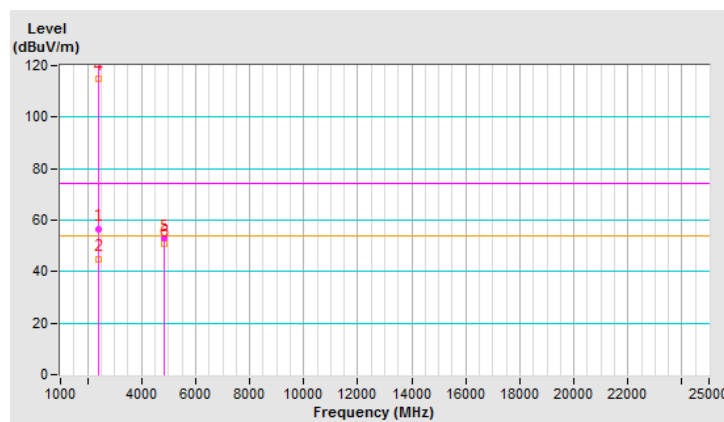


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	56.6 PK	74.0	-17.4	2.79 V	66	58.2	-1.6
2	2390.00	44.6 AV	54.0	-9.4	2.79 V	66	46.2	-1.6
3	*2412.00	123.9 PK			2.79 V	66	125.6	-1.7
4	*2412.00	115.0 AV			2.79 V	66	116.7	-1.7
5	4824.00	52.7 PK	74.0	-21.3	3.01 V	203	50.4	2.3
6	4824.00	50.6 AV	54.0	-3.4	3.01 V	203	48.3	2.3
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

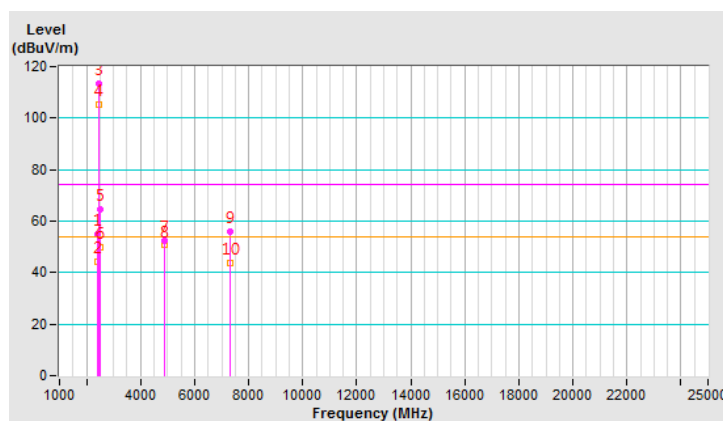


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	55.1 PK	74.0	-18.9	2.34 H	147	56.7	-1.6
2	2390.00	44.2 AV	54.0	-9.8	2.34 H	147	45.8	-1.6
3	*2437.00	113.6 PK			2.34 H	147	115.4	-1.8
4	*2437.00	105.1 AV			2.34 H	147	106.9	-1.8
5	2483.50	64.5 PK	74.0	-9.5	2.34 H	147	66.2	-1.7
6	2483.50	49.9 AV	54.0	-4.1	2.34 H	147	51.6	-1.7
7	4874.00	52.4 PK	74.0	-21.6	2.22 H	239	50.0	2.4
8	4874.00	50.6 AV	54.0	-3.4	2.22 H	239	48.2	2.4
9	7311.00	55.9 PK	74.0	-18.1	1.81 H	266	46.7	9.2
10	7311.00	43.6 AV	54.0	-10.4	1.81 H	266	34.4	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

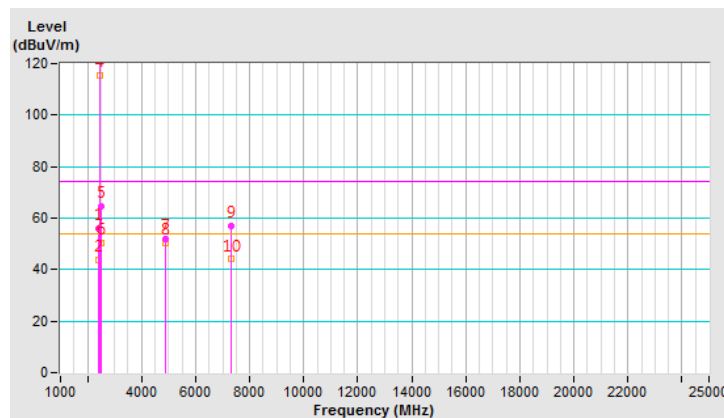


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	55.8 PK	74.0	-18.2	2.86 V	64	57.4	-1.6
2	2390.00	43.6 AV	54.0	-10.4	2.86 V	64	45.2	-1.6
3	*2437.00	124.5 PK			2.86 V	64	126.3	-1.8
4	*2437.00	115.6 AV			2.86 V	64	117.4	-1.8
5	2483.50	64.8 PK	74.0	-9.2	2.86 V	64	66.5	-1.7
6	2483.50	50.2 AV	54.0	-3.8	2.86 V	64	51.9	-1.7
7	4874.00	52.0 PK	74.0	-22.0	3.08 V	205	49.6	2.4
8	4874.00	50.2 AV	54.0	-3.8	3.08 V	205	47.8	2.4
9	7311.00	56.9 PK	74.0	-17.1	1.60 V	187	47.7	9.2
10	7311.00	44.0 AV	54.0	-10.0	1.60 V	187	34.8	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

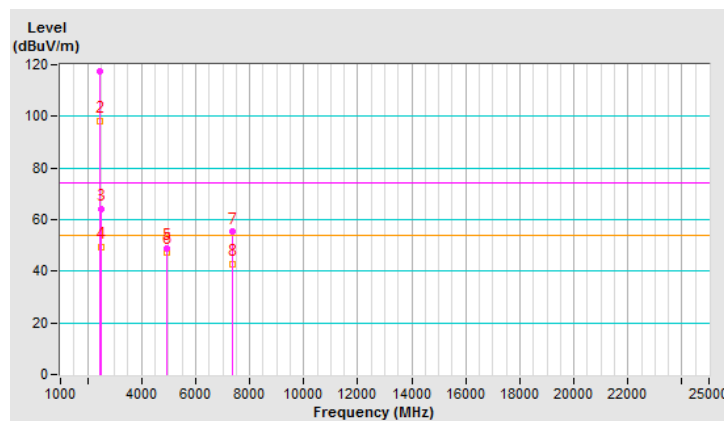


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	117.4 PK			2.33 H	152	119.2	-1.8
2	*2462.00	98.2 AV			2.33 H	152	100.0	-1.8
3	2483.50	64.0 PK	74.0	-10.0	2.33 H	152	65.7	-1.7
4	2483.50	49.2 AV	54.0	-4.8	2.33 H	152	50.9	-1.7
5	4924.00	49.0 PK	74.0	-25.0	2.20 H	243	46.5	2.5
6	4924.00	47.5 AV	54.0	-6.5	2.20 H	243	45.0	2.5
7	7386.00	55.2 PK	74.0	-18.8	1.85 H	267	45.8	9.4
8	7386.00	42.8 AV	54.0	-11.2	1.85 H	267	33.4	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

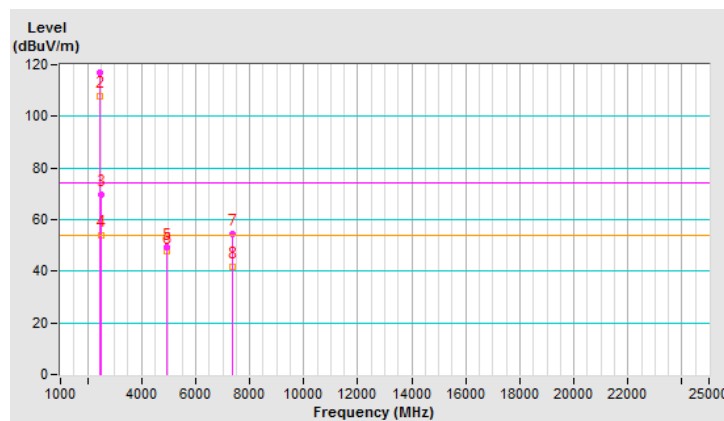


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	117.1 PK			2.77 V	86	118.9	-1.8
2	*2462.00	107.9 AV			2.77 V	86	109.7	-1.8
3	2483.50	69.5 PK	74.0	-4.5	2.77 V	86	71.2	-1.7
4	2483.50	53.9 AV	54.0	-0.1	2.77 V	86	55.6	-1.7
5	4924.00	49.1 PK	74.0	-24.9	3.13 V	202	46.6	2.5
6	4924.00	47.6 AV	54.0	-6.4	3.13 V	202	45.1	2.5
7	7386.00	54.6 PK	74.0	-19.4	1.56 V	168	45.2	9.4
8	7386.00	41.8 AV	54.0	-12.2	1.56 V	168	32.4	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



802.11ax (HE20)

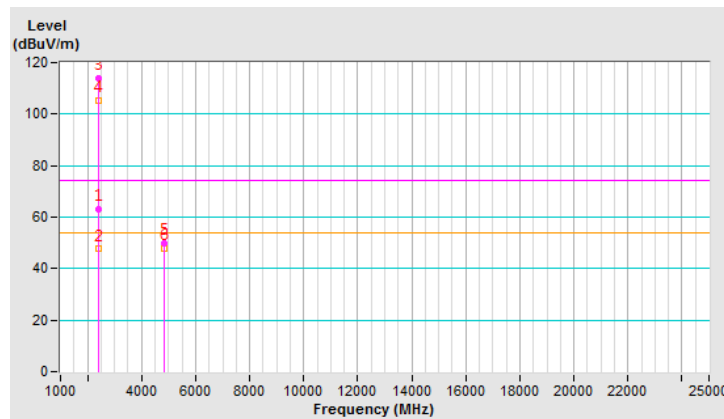
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	63.0 PK	74.0	-11.0	2.34 H	158	64.6	-1.6
2	2390.00	47.6 AV	54.0	-6.4	2.34 H	158	49.2	-1.6
3	*2412.00	114.1 PK			2.34 H	158	115.8	-1.7
4	*2412.00	105.5 AV			2.34 H	158	107.2	-1.7
5	4824.00	49.7 PK	74.0	-24.3	2.14 H	242	47.4	2.3
6	4824.00	48.0 AV	54.0	-6.0	2.14 H	242	45.7	2.3
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

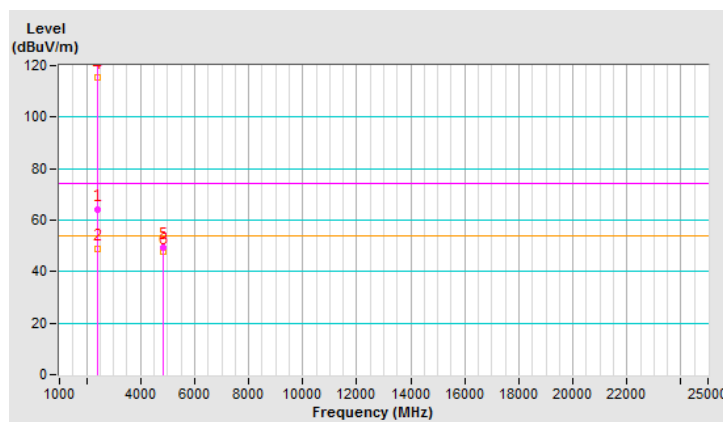


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	64.3 PK	74.0	-9.7	2.63 V	34	65.9	-1.6
2	2390.00	49.0 AV	54.0	-5.0	2.63 V	34	50.6	-1.6
3	*2412.00	128.2 PK			2.63 V	34	129.9	-1.7
4	*2412.00	115.3 AV			2.63 V	34	117.0	-1.7
5	4824.00	49.4 PK	74.0	-24.6	3.16 V	215	47.1	2.3
6	4824.00	47.6 AV	54.0	-6.4	3.16 V	215	45.3	2.3
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

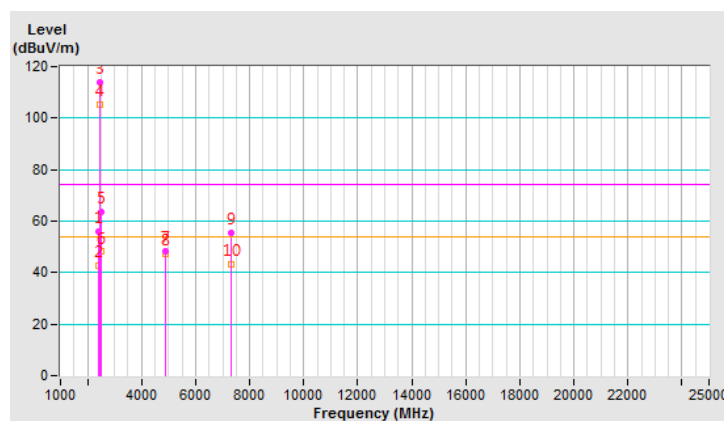


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	56.0 PK	74.0	-18.0	2.35 H	148	57.6	-1.6
2	2390.00	42.9 AV	54.0	-11.1	2.35 H	148	44.5	-1.6
3	*2437.00	113.9 PK			2.35 H	148	115.7	-1.8
4	*2437.00	105.1 AV			2.35 H	148	106.9	-1.8
5	2483.50	63.7 PK	74.0	-10.3	2.35 H	148	65.4	-1.7
6	2483.50	48.1 AV	54.0	-5.9	2.35 H	148	49.8	-1.7
7	4874.00	48.4 PK	74.0	-25.6	2.23 H	259	46.0	2.4
8	4874.00	47.2 AV	54.0	-6.8	2.23 H	259	44.8	2.4
9	7311.00	55.5 PK	74.0	-18.5	1.82 H	252	46.3	9.2
10	7311.00	43.2 AV	54.0	-10.8	1.82 H	252	34.0	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

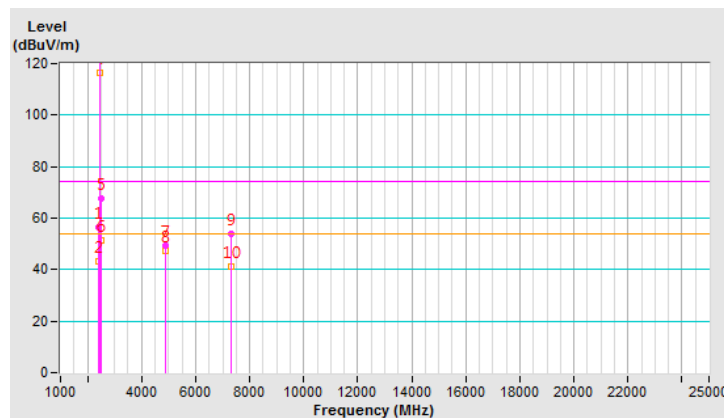


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	56.3 PK	74.0	-17.7	2.63 V	10	57.9	-1.6
2	2390.00	43.2 AV	54.0	-10.8	2.63 V	10	44.8	-1.6
3	*2437.00	128.9 PK			2.63 V	10	130.7	-1.8
4	*2437.00	116.6 AV			2.63 V	10	118.4	-1.8
5	2483.50	67.5 PK	74.0	-6.5	2.63 V	10	69.2	-1.7
6	2483.50	51.2 AV	54.0	-2.8	2.63 V	10	52.9	-1.7
7	4874.00	49.3 PK	74.0	-24.7	3.12 V	207	46.9	2.4
8	4874.00	47.2 AV	54.0	-6.8	3.12 V	207	44.8	2.4
9	7311.00	53.8 PK	74.0	-20.2	1.61 V	155	44.6	9.2
10	7311.00	41.3 AV	54.0	-12.7	1.61 V	155	32.1	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

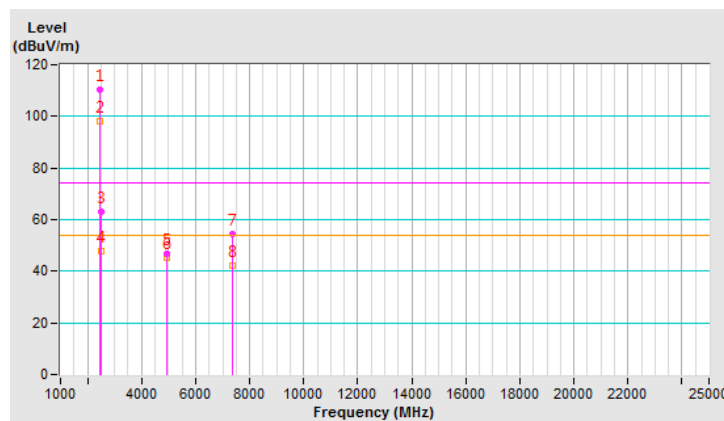


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	110.4 PK			2.33 H	160	112.2	-1.8
2	*2462.00	98.3 AV			2.33 H	160	100.1	-1.8
3	2483.50	63.2 PK	74.0	-10.8	2.33 H	160	64.9	-1.7
4	2483.50	47.8 AV	54.0	-6.2	2.33 H	160	49.5	-1.7
5	4924.00	46.9 PK	74.0	-27.1	2.32 H	249	44.4	2.5
6	4924.00	45.3 AV	54.0	-8.7	2.32 H	249	42.8	2.5
7	7386.00	54.6 PK	74.0	-19.4	1.83 H	251	45.2	9.4
8	7386.00	42.4 AV	54.0	-11.6	1.83 H	251	33.0	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

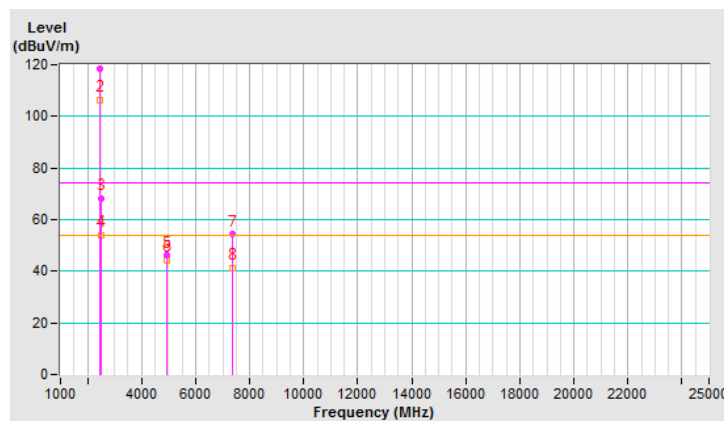


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	118.3 PK			1.51 V	46	120.1	-1.8
2	*2462.00	106.3 AV			1.51 V	46	108.1	-1.8
3	2483.50	68.2 PK	74.0	-5.8	1.51 V	46	69.9	-1.7
4	2483.50	53.9 AV	54.0	-0.1	1.51 V	46	55.6	-1.7
5	4924.00	46.1 PK	74.0	-27.9	3.16 V	196	43.6	2.5
6	4924.00	44.3 AV	54.0	-9.7	3.16 V	196	41.8	2.5
7	7386.00	54.2 PK	74.0	-19.8	1.57 V	160	44.8	9.4
8	7386.00	41.3 AV	54.0	-12.7	1.57 V	160	31.9	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.



802.11ax (HE40)

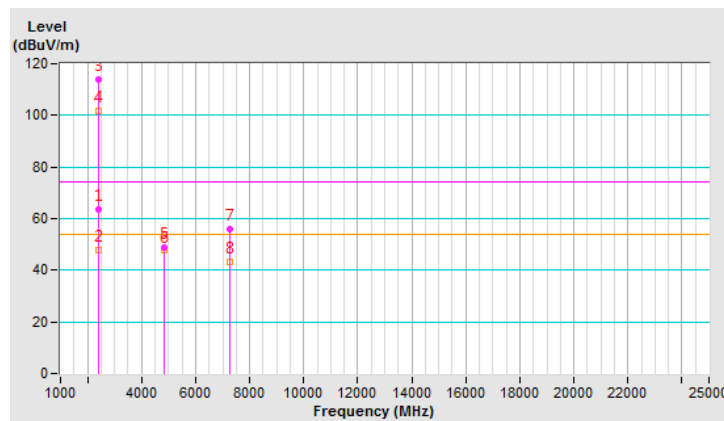
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22℃	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	63.7 PK	74.0	-10.3	2.30 H	148	65.3	-1.6
2	2390.00	47.9 AV	54.0	-6.1	2.30 H	148	49.5	-1.6
3	*2422.00	114.0 PK			2.30 H	148	115.7	-1.7
4	*2422.00	101.9 AV			2.30 H	148	103.6	-1.7
5	4844.00	48.9 PK	74.0	-25.1	2.26 H	237	46.7	2.2
6	4844.00	47.6 AV	54.0	-6.4	2.26 H	237	45.4	2.2
7	7266.00	55.8 PK	74.0	-18.2	1.84 H	277	46.8	9.0
8	7266.00	43.1 AV	54.0	-10.9	1.84 H	277	34.1	9.0
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

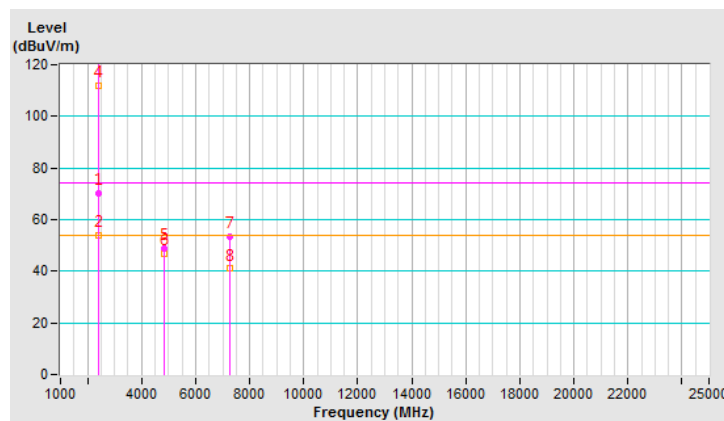


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22℃	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	70.3 PK	74.0	-3.7	2.10 V	8	71.9	-1.6
2	2390.00	53.9 AV	54.0	-0.1	2.10 V	8	55.5	-1.6
3	*2422.00	123.8 PK			2.10 V	8	125.5	-1.7
4	*2422.00	111.8 AV			2.10 V	8	113.5	-1.7
5	4844.00	49.0 PK	74.0	-25.0	3.20 V	190	46.8	2.2
6	4844.00	46.8 AV	54.0	-7.2	3.20 V	190	44.6	2.2
7	7266.00	53.6 PK	74.0	-20.4	1.62 V	179	44.6	9.0
8	7266.00	41.0 AV	54.0	-13.0	1.62 V	179	32.0	9.0
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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency (主頻).
6. " # ": The radiated frequency is out of the restricted band.
7. " - ": The emission levels were too low to be detected.
8. The blank is not available, the limit of fundamental frequency was restricted at the output power.

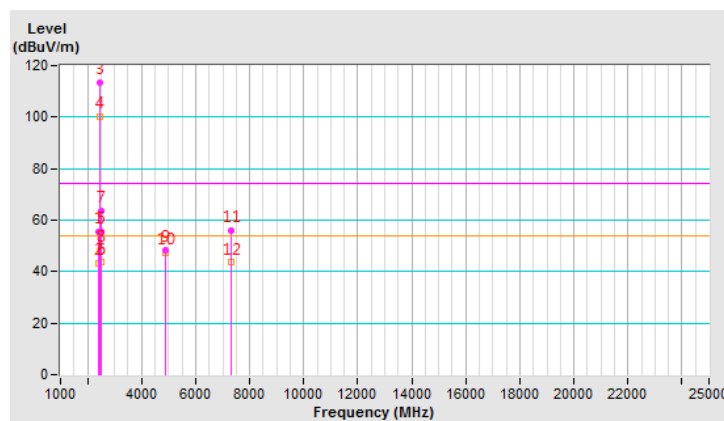


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	55.5 PK	74.0	-18.5	2.28 H	143	57.1	-1.6
2	2390.00	43.3 AV	54.0	-10.7	2.28 H	143	44.9	-1.6
3	*2437.00	113.6 PK			2.28 H	143	115.4	-1.8
4	*2437.00	100.1 AV			2.28 H	143	101.9	-1.8
5	2483.50	55.6 PK	74.0	-18.4	2.28 H	143	57.3	-1.7
6	2483.50	43.5 AV	54.0	-10.5	2.28 H	143	45.2	-1.7
7	2493.90	63.8 PK	74.0	-10.2	2.28 H	143	65.5	-1.7
8	2493.90	48.2 AV	54.0	-5.8	2.28 H	143	49.9	-1.7
9	4874.00	48.5 PK	74.0	-25.5	2.30 H	252	46.1	2.4
10	4874.00	47.3 AV	54.0	-6.7	2.30 H	252	44.9	2.4
11	7311.00	56.0 PK	74.0	-18.0	1.83 H	270	46.8	9.2
12	7311.00	43.5 AV	54.0	-10.5	1.83 H	270	34.3	9.2
13	#9748.00	-	-	-	-	-	-	-
14	12185.00	-	-	-	-	-	-	-
15	#14622.00	-	-	-	-	-	-	-
16	#17059.00	-	-	-	-	-	-	-
17	19496.00	-	-	-	-	-	-	-
18	#21933.00	-	-	-	-	-	-	-
19	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

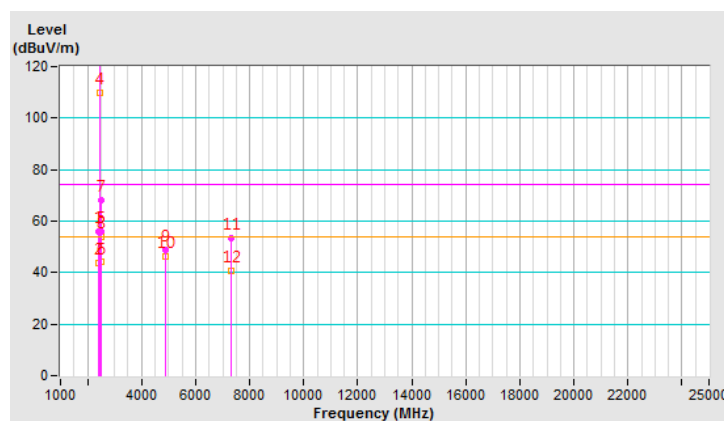


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	55.8 PK	74.0	-18.2	1.75 V	30	57.4	-1.6
2	2390.00	43.6 AV	54.0	-10.4	1.75 V	30	45.2	-1.6
3	*2437.00	123.2 PK			1.75 V	30	125.0	-1.8
4	*2437.00	109.7 AV			1.75 V	30	111.5	-1.8
5	2483.50	56.0 PK	74.0	-18.0	1.75 V	30	57.7	-1.7
6	2483.50	44.0 AV	54.0	-10.0	1.75 V	30	45.7	-1.7
7	2493.90	68.0 PK	74.0	-6.0	1.75 V	30	69.7	-1.7
8	2493.90	53.9 AV	54.0	-0.1	1.75 V	30	55.6	-1.7
9	4874.00	48.8 PK	74.0	-25.2	3.23 V	180	46.4	2.4
10	4874.00	46.4 AV	54.0	-7.6	3.23 V	180	44.0	2.4
11	7311.00	53.4 PK	74.0	-20.6	1.59 V	180	44.2	9.2
12	7311.00	40.6 AV	54.0	-13.4	1.59 V	180	31.4	9.2
13	#9748.00	-	-	-	-	-	-	-
14	12185.00	-	-	-	-	-	-	-
15	#14622.00	-	-	-	-	-	-	-
16	#17059.00	-	-	-	-	-	-	-
17	19496.00	-	-	-	-	-	-	-
18	#21933.00	-	-	-	-	-	-	-
19	#24370.00	-	-	-	-	-	-	-

REMARKS:

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

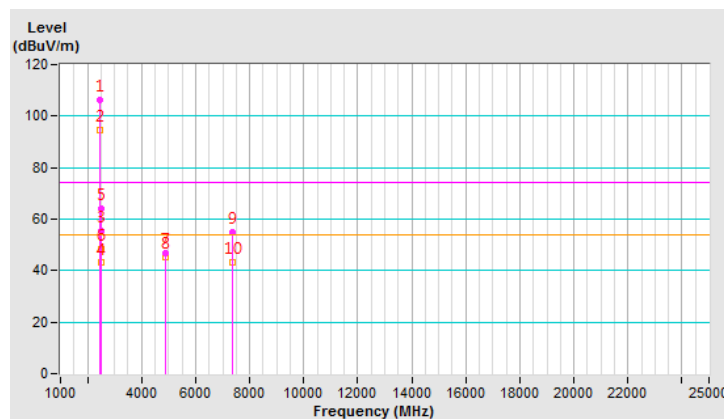


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	106.2 PK			2.30 H	143	108.0	-1.8
2	*2452.00	94.5 AV			2.30 H	143	96.3	-1.8
3	2483.50	55.3 PK	74.0	-18.7	2.30 H	143	57.0	-1.7
4	2483.50	43.0 AV	54.0	-11.0	2.30 H	143	44.7	-1.7
5	2486.70	64.1 PK	74.0	-9.9	2.30 H	143	65.8	-1.7
6	2486.70	48.3 AV	54.0	-5.7	2.30 H	143	50.0	-1.7
7	4904.00	46.9 PK	74.0	-27.1	2.25 H	265	44.4	2.5
8	4904.00	45.2 AV	54.0	-8.8	2.25 H	265	42.7	2.5
9	7356.00	54.8 PK	74.0	-19.2	1.87 H	266	45.6	9.2
10	7356.00	43.1 AV	54.0	-10.9	1.87 H	266	33.9	9.2
11	#9808.00	-	-	-	-	-	-	-
12	12260.00	-	-	-	-	-	-	-
13	#14712.00	-	-	-	-	-	-	-
14	#17164.00	-	-	-	-	-	-	-
15	19616.00	-	-	-	-	-	-	-
16	22068.00	-	-	-	-	-	-	-
17	#24520.00	-	-	-	-	-	-	-

REMARKS:

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

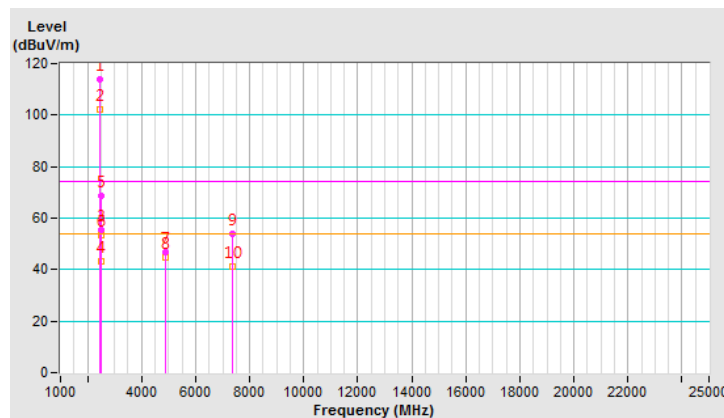


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	114.0 PK			1.96 V	26	115.8	-1.8
2	*2452.00	102.4 AV			1.96 V	26	104.2	-1.8
3	2483.50	55.5 PK	74.0	-18.5	1.96 V	26	57.2	-1.7
4	2483.50	43.2 AV	54.0	-10.8	1.96 V	26	44.9	-1.7
5	2486.70	68.7 PK	74.0	-5.3	1.96 V	26	70.4	-1.7
6	2486.70	53.6 AV	54.0	-0.4	1.96 V	26	55.3	-1.7
7	4904.00	47.0 PK	74.0	-27.0	3.18 V	205	44.5	2.5
8	4904.00	44.8 AV	54.0	-9.2	3.18 V	205	42.3	2.5
9	7356.00	54.1 PK	74.0	-19.9	1.56 V	137	44.9	9.2
10	7356.00	41.3 AV	54.0	-12.7	1.56 V	137	32.1	9.2
11	#9808.00	-	-	-	-	-	-	-
12	12260.00	-	-	-	-	-	-	-
13	#14712.00	-	-	-	-	-	-	-
14	#17164.00	-	-	-	-	-	-	-
15	19616.00	-	-	-	-	-	-	-
16	22068.00	-	-	-	-	-	-	-
17	#24520.00	-	-	-	-	-	-	-

REMARKS:

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



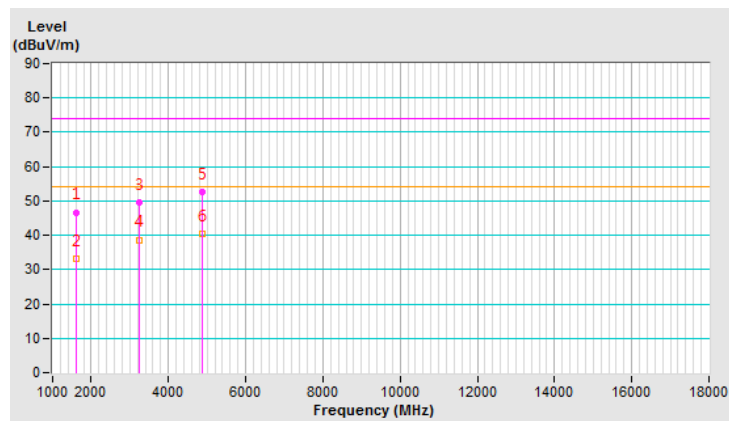
4.6.2 接收諧波

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：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	46.7 PK	74.0	-27.3	3.21 H	209	51.2	-4.5
2	1624.67	33.1 AV	54.0	-20.9	3.21 H	209	37.6	-4.5
3	3249.33	49.5 PK	74.0	-24.5	1.52 H	135	50.3	-0.8
4	3249.33	38.7 AV	54.0	-15.3	1.52 H	135	39.5	-0.8
5	4874.00	52.7 PK	74.0	-21.3	1.28 H	93	50.3	2.4
6	4874.00	40.5 AV	54.0	-13.5	1.28 H	93	38.1	2.4

REMARKS:

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

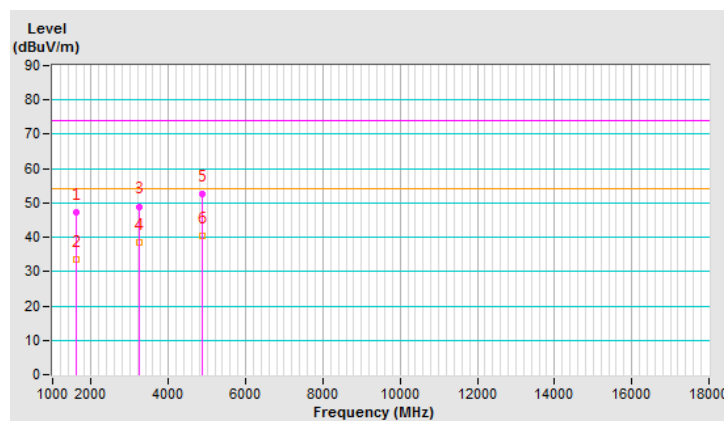


操作模式：	接收		
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	47.3 PK	74.0	-26.7	3.21 V	216	51.8	-4.5
2	1624.67	33.4 AV	54.0	-20.6	3.21 V	216	37.9	-4.5
3	3249.33	49.0 PK	74.0	-25.0	1.50 V	124	49.8	-0.8
4	3249.33	38.6 AV	54.0	-15.4	1.50 V	124	39.4	-0.8
5	4874.00	52.7 PK	74.0	-21.3	1.26 V	102	50.3	2.4
6	4874.00	40.5 AV	54.0	-13.5	1.26 V	102	38.1	2.4

REMARKS:

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



4.6.3 其它不必要之訊號

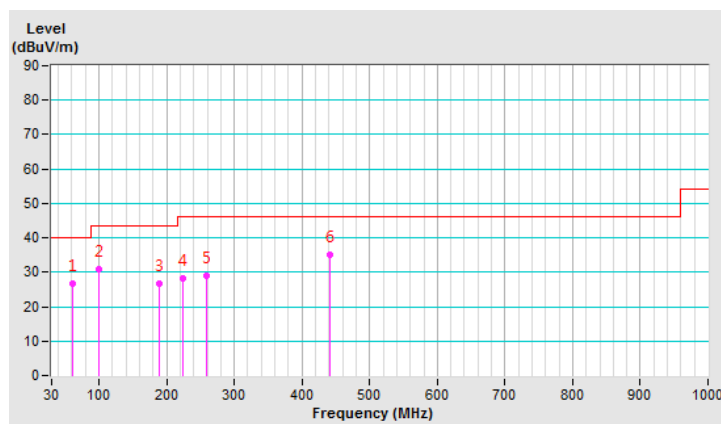
802.11b

操作模式：	發射接收	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	108 年 8 月 22 日	測試者：	陳星睿

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	61.34	26.6 QP	40.0	-13.4	1.00 H	293	35.7	-9.1
2	100.54	30.7 QP	43.5	-12.8	1.50 H	225	42.6	-11.9
3	189.48	26.8 QP	43.5	-16.7	1.50 H	99	36.9	-10.1
4	223.36	28.2 QP	46.0	-17.8	1.50 H	266	38.4	-10.2
5	259.83	28.9 QP	46.0	-17.1	2.00 H	44	37.3	-8.4
6	441.68	35.1 QP	46.0	-10.9	1.50 H	221	37.8	-2.7

REMARKS:

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

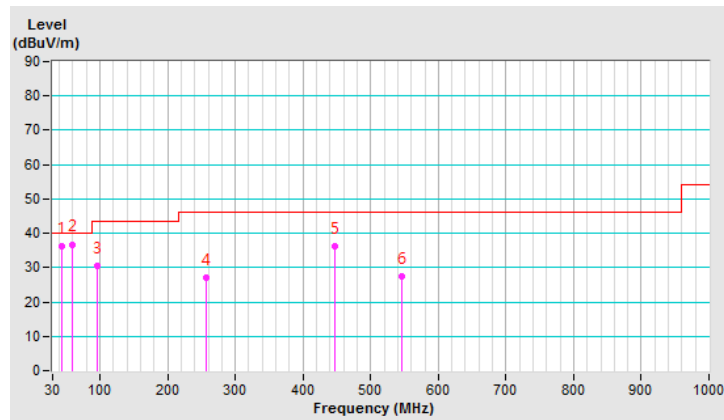


操作模式：	發射接收	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	108 年 8 月 22 日	測試者：	陳星睿

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	43.04	36.3 QP	40.0	-3.7	1.00 V	314	44.7	-8.4
2	59.98	36.8 QP	40.0	-3.2	1.00 V	348	45.4	-8.6
3	96.57	30.5 QP	43.5	-13.0	1.00 V	236	43.0	-12.5
4	256.02	27.2 QP	46.0	-18.8	1.50 V	196	35.8	-8.6
5	448.02	36.3 QP	46.0	-9.7	1.50 V	112	38.9	-2.6
6	545.68	27.5 QP	46.0	-18.5	1.00 V	309	28.4	-0.9

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.7 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

4.8 配置照片

請參照 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。

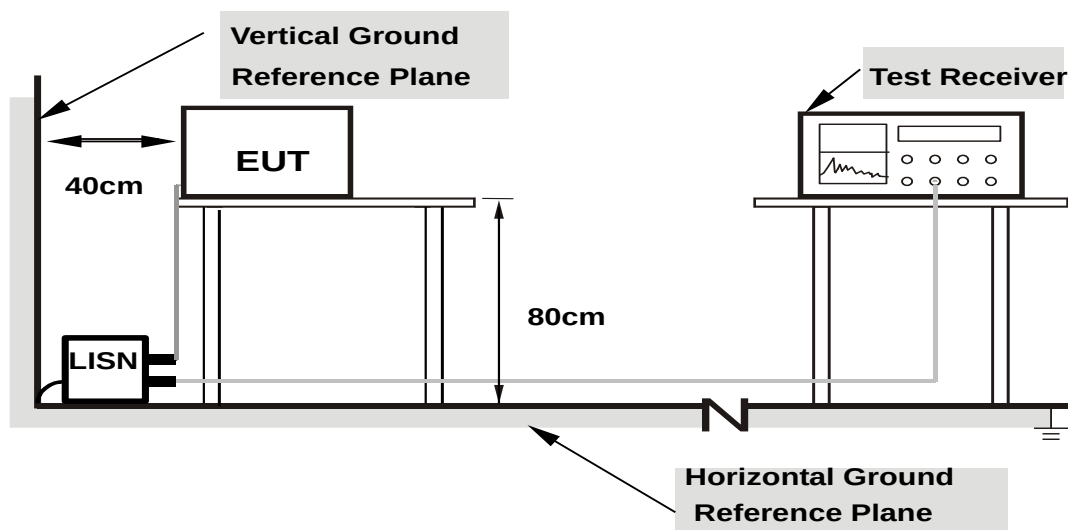
5.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2018	Oct. 23, 2019
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 22, 2018	Oct. 21, 2019
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
50 ohms Terminator	N/A	3	Oct. 22, 2018	Oct. 21, 2019
RF Cable	5D-FB	COCCAB-001	Sep. 28, 2018	Sep. 27, 2019
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 14, 2019	Mar. 13, 2020
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 Conduction 1.
- 4 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

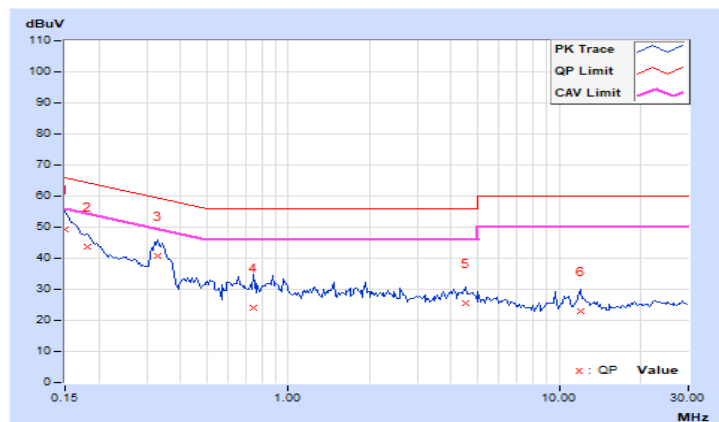
5.6 量測結果

操作模式	發射/ 接收	測試日期	108 年 08 月 21 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	24°C
調變技術	DSSS	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.
0.15000	9.96	39.30	22.41	49.26	32.37	66.00	56.00	-16.74	-23.63
0.18125	9.97	33.58	18.59	43.55	28.56	64.43	54.43	-20.88	-25.87
0.32969	9.98	30.65	21.62	40.63	31.60	59.46	49.46	-18.83	-17.86
0.74766	10.01	14.13	5.76	24.14	15.77	56.00	46.00	-31.86	-30.23
4.51172	10.29	15.26	8.72	25.55	19.01	56.00	46.00	-30.45	-26.99
12.02734	10.79	12.28	7.15	23.07	17.94	60.00	50.00	-36.93	-32.06

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.

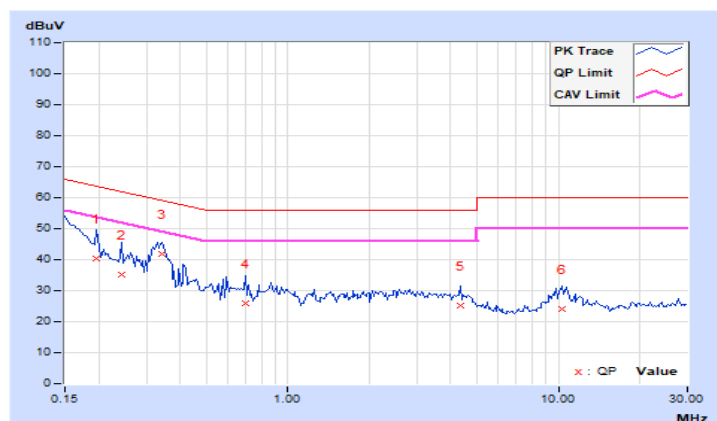


操作模式	發射/ 接收	測試日期	108 年 08 月 21 日
基本波頻率	CH 6: 2437MHz	量測場地溫度	24°C
調變技術	DSSS	量測場地濕度	75%RH
測試者	何欣儒		

		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.
0.19687	9.95	30.38	13.73	40.33	23.68	63.74	53.74	-23.41	-30.06
0.24375	9.95	25.40	13.05	35.35	23.00	61.97	51.97	-26.62	-28.97
0.34141	9.96	31.97	27.44	41.93	37.40	59.17	49.17	-17.24	-11.77
0.70078	9.99	15.79	8.27	25.78	18.26	56.00	46.00	-30.22	-27.74
4.35547	10.21	14.99	9.13	25.20	19.34	56.00	46.00	-30.80	-26.66
10.38281	10.57	13.51	8.69	24.08	19.26	60.00	50.00	-35.92	-30.74

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

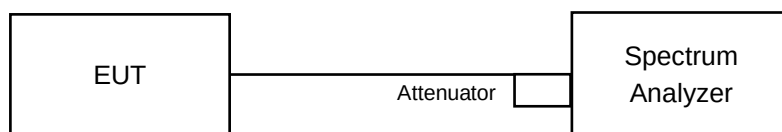
- 將待測物輸出經由衰減器接到頻譜分析儀上。
- 設定待測物處於連續發射狀態。
- 計算最大輸出功率峰值減 6dB 的最大頻率範圍。

6.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	June 04, 2019	June 03, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020

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	108 年 08 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	陳高逸		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	8.06	8.08	8.05	8.10	0.5	Pass
6	2437	7.58	7.59	8.09	8.08	0.5	Pass
11	2462	8.05	8.08	7.60	8.09	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	15.94	16.00	15.97	15.77	0.5	Pass
6	2437	16.34	15.75	16.34	16.36	0.5	Pass
11	2462	16.35	15.77	16.01	16.36	0.5	Pass

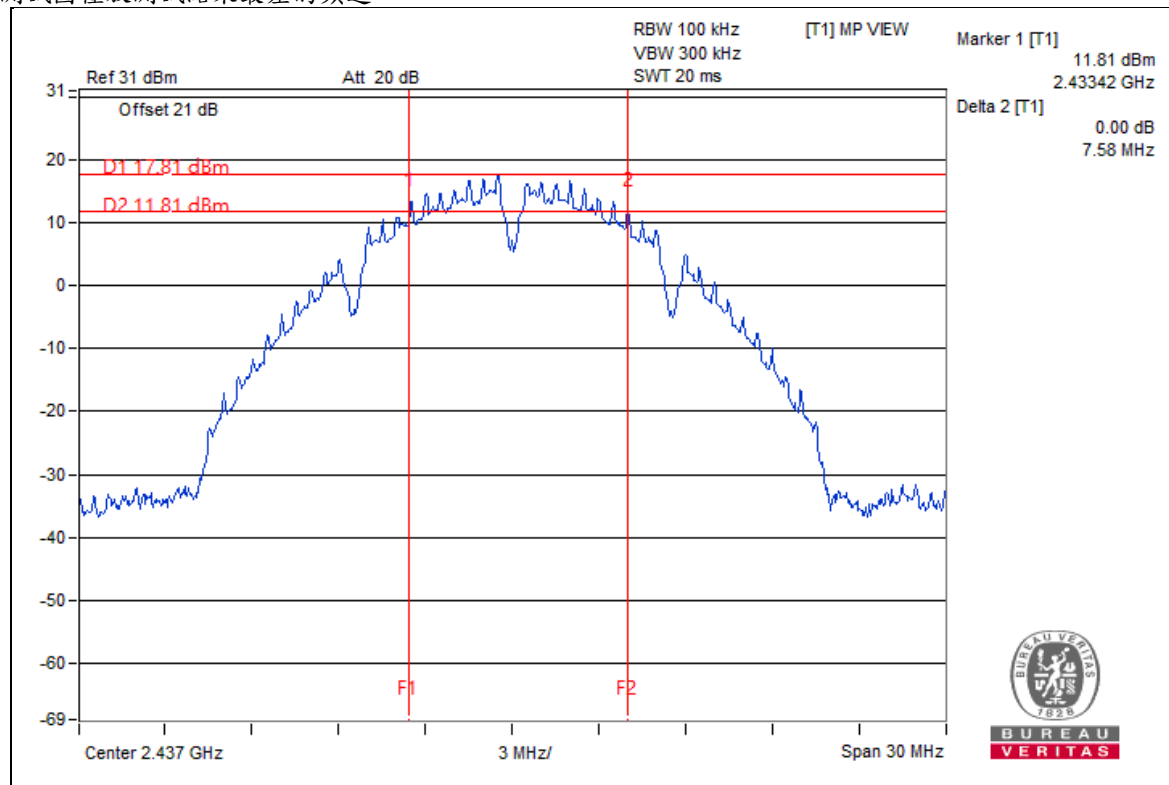
802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	18.71	18.95	17.04	18.59	0.5	Pass
6	2437	18.92	18.60	18.89	18.84	0.5	Pass
11	2462	18.81	18.74	19.03	19.02	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
3	2422	35.39	36.60	36.55	36.44	0.5	Pass
6	2437	38.00	37.55	38.09	37.96	0.5	Pass
9	2452	38.13	38.01	38.07	37.94	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



6.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

7 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

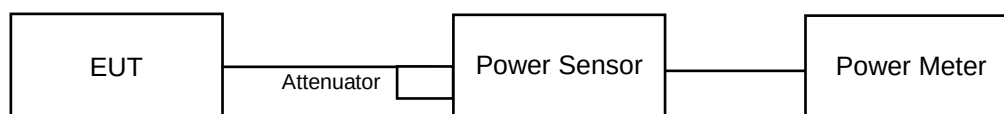
- 將待測物輸出經由衰減器接到功率計上。
- 設定待測物處於連續發射狀態。
- 計算其最大輸出功率。

7.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Power meter Anritsu	ML2495A	1014008	May 13, 2019	May 12, 2020
Power sensor Anritsu	MA2411B	0917122	May 13, 2019	May 12, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020

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	108 年 08 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	陳高逸		

Non-Beamforming 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	23.96	24.15	23.73	23.81	985.386	29.94	30.00	Pass
6	2437	23.77	23.76	24.05	24.19	992.435	29.97	30.00	Pass
11	2462	21.51	21.95	21.37	22.15	599.401	27.78	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	23.72	24.02	23.72	24.04	976.871	29.90	30.00	Pass
6	2437	23.57	23.55	23.77	23.74	928.798	29.68	30.00	Pass
11	2462	22.47	22.72	22.48	22.63	723.914	28.60	30.00	Pass

VHT20

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	23.71	24.11	23.46	24.35	986.685	29.94	30.00	Pass
6	2437	23.51	23.63	23.72	23.82	931.559	29.69	30.00	Pass
11	2462	21.68	22.22	21.97	21.96	628.39	27.98	30.00	Pass

VHT40

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	21.09	21.97	21.68	22.24	600.652	27.79	30.00	Pass
6	2437	19.38	19.52	19.67	19.63	360.748	25.57	30.00	Pass
9	2452	15.36	15.48	15.08	15.56	137.86	21.39	30.00	Pass

802.11ax (HE20)

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	23.71	24.11	23.46	24.35	986.685	29.94	30.00	Pass
6	2437	23.51	23.63	23.72	23.82	931.559	29.69	30.00	Pass
11	2462	21.68	22.22	21.97	21.96	628.39	27.98	30.00	Pass

802.11ax (HE40)

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	21.09	21.97	21.68	22.24	600.652	27.79	30.00	Pass
6	2437	19.38	19.52	19.67	19.63	360.748	25.57	30.00	Pass
9	2452	15.36	15.48	15.08	15.56	137.86	21.39	30.00	Pass

Beamforming Mode

VHT20

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	23.71	24.11	23.46	24.35	986.685	29.94	29.99	Pass
6	2437	23.51	23.63	23.72	23.82	931.559	29.69	29.99	Pass
11	2462	21.68	22.22	21.97	21.96	628.39	27.98	29.99	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to 30.00-(6.01-6) = 29.99dBm.

VHT40

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	21.09	21.97	21.68	22.24	600.652	27.79	29.99	Pass
6	2437	19.38	19.52	19.67	19.63	360.748	25.57	29.99	Pass
9	2452	15.36	15.48	15.08	15.56	137.86	21.39	29.99	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to 30.00-(6.01-6) = 29.99dBm.

802.11ax (HE20)

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	23.71	24.11	23.46	24.35	986.685	29.94	29.99	Pass
6	2437	23.51	23.63	23.72	23.82	931.559	29.69	29.99	Pass
11	2462	21.68	22.22	21.97	21.96	628.39	27.98	29.99	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to 30.00-(6.01-6) = 29.99dBm.

802.11ax (HE40)

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	21.09	21.97	21.68	22.24	600.652	27.79	29.99	Pass
6	2437	19.38	19.52	19.67	19.63	360.748	25.57	29.99	Pass
9	2452	15.36	15.48	15.08	15.56	137.86	21.39	29.99	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to 30.00-(6.01-6) = 29.99dBm.

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。

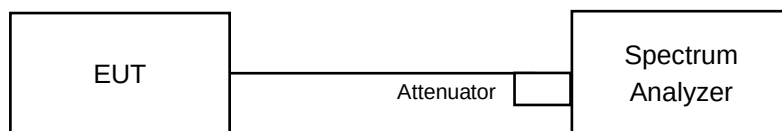
8.3 量測儀器

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	June 04, 2019	June 03, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020

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	108 年 08 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	陳高逸		

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	-11.12	6.02	1.22	-3.88	Pass
	6	2437	-10.04	6.02	1.22	-2.80	Pass
	11	2462	-11.22	6.02	1.22	-3.98	Pass
1	1	2412	-11.31	6.02	1.22	-4.07	Pass
	6	2437	-10.13	6.02	1.22	-2.89	Pass
	11	2462	-11.05	6.02	1.22	-3.81	Pass
2	1	2412	-11.79	6.02	1.22	-4.55	Pass
	6	2437	-9.25	6.02	1.22	-2.01	Pass
	11	2462	-11.53	6.02	1.22	-4.29	Pass
3	1	2412	-10.49	6.02	1.22	-3.25	Pass
	6	2437	-10.05	6.02	1.22	-2.81	Pass
	11	2462	-11.04	6.02	1.22	-3.80	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to $8 - (6.01 - 6) = 7.99\text{dBm}$.

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

802.11g

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	-9.15	6.02	0.26	-2.87	Pass
	6	2437	-9.07	6.02	0.26	-2.79	Pass
	11	2462	-10.67	6.02	0.26	-4.39	Pass
1	1	2412	-8.98	6.02	0.26	-2.70	Pass
	6	2437	-8.91	6.02	0.26	-2.63	Pass
	11	2462	-11.23	6.02	0.26	-4.95	Pass
2	1	2412	-9.05	6.02	0.26	-2.77	Pass
	6	2437	-9.83	6.02	0.26	-3.55	Pass
	11	2462	-11.32	6.02	0.26	-5.04	Pass
3	1	2412	-8.34	6.02	0.26	-2.06	Pass
	6	2437	-9.40	6.02	0.26	-3.12	Pass
	11	2462	-10.68	6.02	0.26	-4.40	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to $8-(6.01-6) = 7.99\text{dBm}$.

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

802.11ax (HE20)

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	-11.91	6.02	0.23	-5.66	7.99	Pass
	6	2437	-12.30	6.02	0.23	-6.05	7.99	Pass
	11	2462	-13.99	6.02	0.23	-7.74	7.99	Pass
1	1	2412	-11.63	6.02	0.23	-5.38	7.99	Pass
	6	2437	-12.39	6.02	0.23	-6.14	7.99	Pass
	11	2462	-14.56	6.02	0.23	-8.31	7.99	Pass
2	1	2412	-11.93	6.02	0.23	-5.68	7.99	Pass
	6	2437	-12.11	6.02	0.23	-5.86	7.99	Pass
	11	2462	-14.81	6.02	0.23	-8.56	7.99	Pass
3	1	2412	-11.80	6.02	0.23	-5.55	7.99	Pass
	6	2437	-12.45	6.02	0.23	-6.20	7.99	Pass
	11	2462	-14.83	6.02	0.23	-8.58	7.99	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to $8-(6.01-6) = 7.99\text{dBm}$.

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

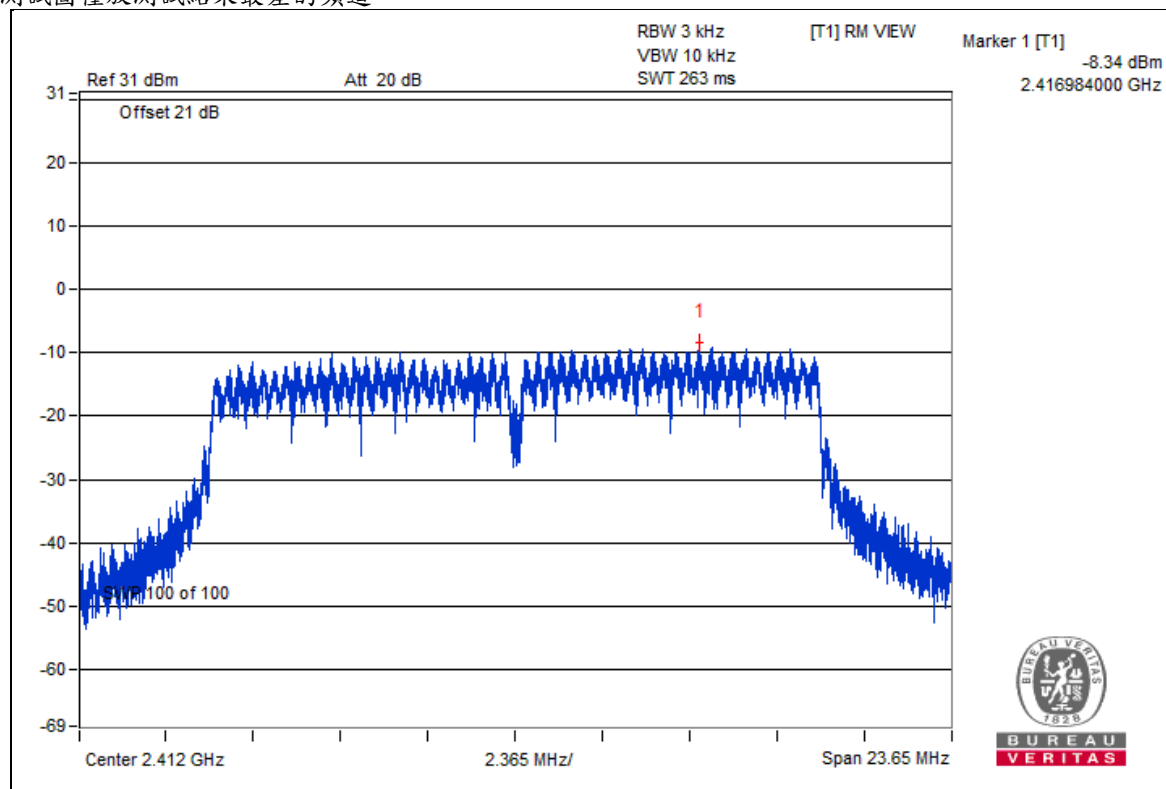
802.11ax (HE40)

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	-16.40	6.02	0.26	-10.12	7.99	Pass
	6	2437	-18.85	6.02	0.26	-12.57	7.99	Pass
	9	2452	-22.68	6.02	0.26	-16.40	7.99	Pass
1	3	2422	-16.24	6.02	0.26	-9.96	7.99	Pass
	6	2437	-18.86	6.02	0.26	-12.58	7.99	Pass
	9	2452	-23.27	6.02	0.26	-16.99	7.99	Pass
2	3	2422	-16.14	6.02	0.26	-9.86	7.99	Pass
	6	2437	-17.93	6.02	0.26	-11.65	7.99	Pass
	9	2452	-23.20	6.02	0.26	-16.92	7.99	Pass
3	3	2422	-15.71	6.02	0.26	-9.43	7.99	Pass
	6	2437	-18.97	6.02	0.26	-12.69	7.99	Pass
	9	2452	-23.75	6.02	0.26	-17.47	7.99	Pass

Note: 1. The directional gain = 6.01dBi > 6dBi , so the power limit shall be reduced to $8 - (6.01 - 6) = 7.99\text{dBm}$.

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。



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

For U-NII-1:

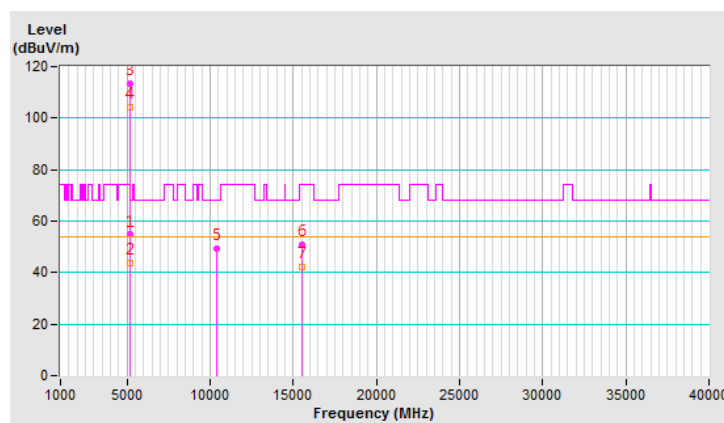
802.11a

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=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	54.7 PK	74.0	-19.3	1.39 H	228	51.2	3.5
2	5150.00	43.7 AV	54.0	-10.3	1.39 H	228	40.2	3.5
3	*5180.00	113.3 PK			1.39 H	228	109.9	3.4
4	*5180.00	104.1 AV			1.39 H	228	100.7	3.4
5	#10360.00	49.3 PK	68.2	-18.9	1.40 H	228	36.2	13.1
6	15540.00	51.0 PK	74.0	-23.0	2.35 H	320	37.4	13.6
7	15540.00	42.2 AV	54.0	-11.8	2.35 H	320	28.6	13.6
8	20720.00	-	-	-	-	-	-	-
9	#25900.00	-	-	-	-	-	-	-
10	#31080.00	-	-	-	-	-	-	-
11	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

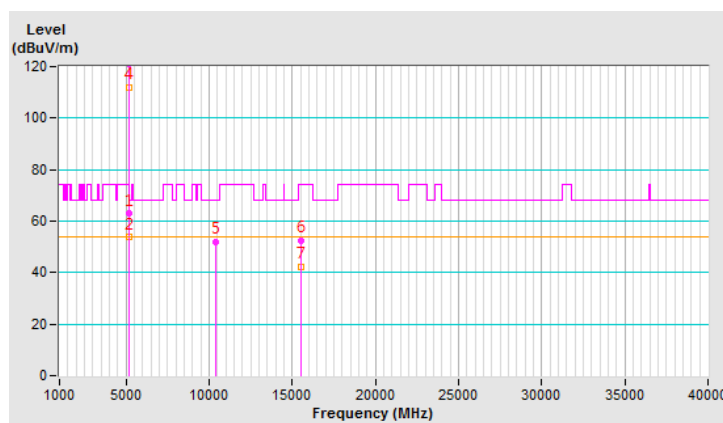


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	62.8 PK	74.0	-11.2	2.70 V	161	59.3	3.5
2	5150.00	53.7 AV	54.0	-0.3	2.70 V	161	50.2	3.5
3	*5180.00	120.9 PK			2.70 V	161	117.5	3.4
4	*5180.00	111.9 AV			2.70 V	161	108.5	3.4
5	#10360.00	51.8 PK	68.2	-16.4	2.06 V	186	38.7	13.1
6	15540.00	52.3 PK	74.0	-21.7	1.62 V	227	38.7	13.6
7	15540.00	42.2 AV	54.0	-11.8	1.62 V	227	28.6	13.6
8	20720.00	-	-	-	-	-	-	-
9	#25900.00	-	-	-	-	-	-	-
10	#31080.00	-	-	-	-	-	-	-
11	#36260.00	-	-	-	-	-	-	-

REMARKS:

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



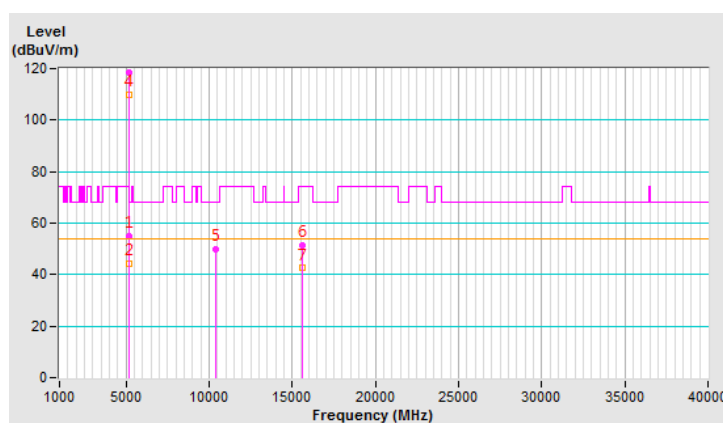
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	54.9 PK	74.0	-19.1	1.41 H	214	51.4	3.5
2	5150.00	44.1 AV	54.0	-9.9	1.41 H	214	40.6	3.5
3	*5200.00	118.7 PK			1.41 H	214	115.3	3.4
4	*5200.00	109.7 AV			1.41 H	214	106.3	3.4
5	#10400.00	49.7 PK	68.2	-18.5	1.45 H	216	36.3	13.4
6	15600.00	51.2 PK	74.0	-22.8	2.39 H	326	37.8	13.4
7	15600.00	42.5 AV	54.0	-11.5	2.39 H	326	29.1	13.4
8	20800.00	-	-	-	-	-	-	-
9	#26000.00	-	-	-	-	-	-	-
10	31200.00	-	-	-	-	-	-	-
11	#36400.00	-	-	-	-	-	-	-

REMARKS:

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



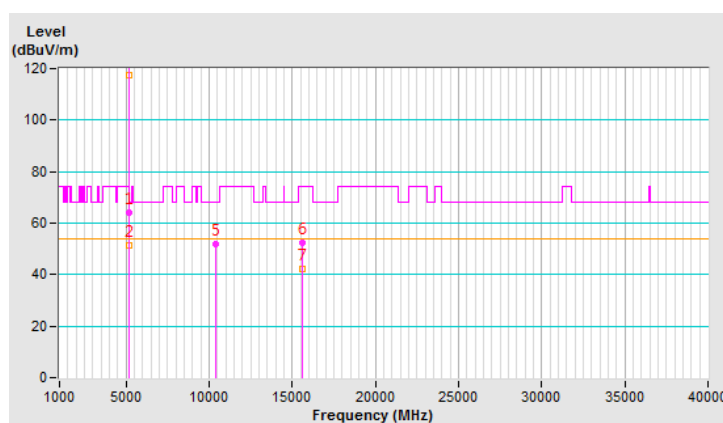
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	64.1 PK	74.0	-9.9	1.50 V	9	60.6	3.5
2	5150.00	51.6 AV	54.0	-2.4	1.50 V	9	48.1	3.5
3	*5200.00	126.4 PK			1.50 V	9	123.0	3.4
4	*5200.00	117.3 AV			1.50 V	9	113.9	3.4
5	#10400.00	52.0 PK	68.2	-16.2	2.06 V	199	38.6	13.4
6	15600.00	52.6 PK	74.0	-21.4	1.56 V	219	39.2	13.4
7	15600.00	42.4 AV	54.0	-11.6	1.56 V	219	29.0	13.4
8	20800.00	-	-	-	-	-	-	-
9	#26000.00	-	-	-	-	-	-	-
10	31200.00	-	-	-	-	-	-	-
11	#36400.00	-	-	-	-	-	-	-

REMARKS:

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



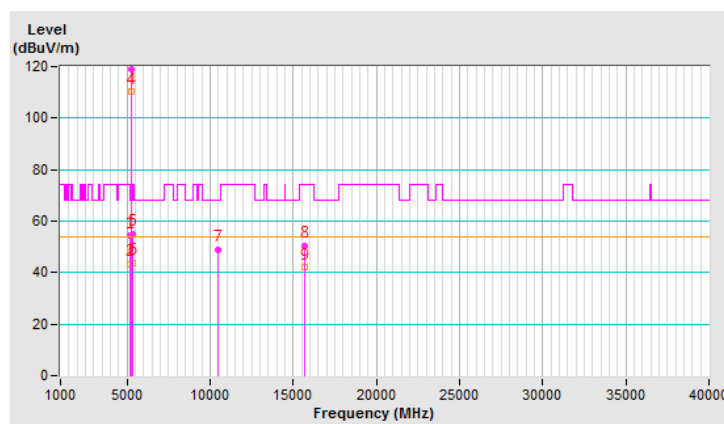
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	54.2 PK	74.0	-19.8	1.43 H	211	50.7	3.5
2	5150.00	43.2 AV	54.0	-10.8	1.43 H	211	39.7	3.5
3	*5240.00	118.9 PK			1.43 H	211	115.9	3.0
4	*5240.00	110.1 AV			1.43 H	211	107.1	3.0
5	5350.00	54.8 PK	74.0	-19.2	1.43 H	211	51.5	3.3
6	5350.00	43.9 AV	54.0	-10.1	1.43 H	211	40.6	3.3
7	#10480.00	49.0 PK	68.2	-19.2	1.44 H	202	35.5	13.5
8	15720.00	50.5 PK	74.0	-23.5	2.36 H	333	37.7	12.8
9	15720.00	42.0 AV	54.0	-12.0	2.36 H	333	29.2	12.8
10	20960.00	-	-	-	-	-	-	-
11	#26200.00	-	-	-	-	-	-	-
12	31440.00	-	-	-	-	-	-	-
13	#36680.00	-	-	-	-	-	-	-

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)
- Margin value = Emission Level – Limit value
- The other emission levels were very low against the limit.
- " * ": 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.

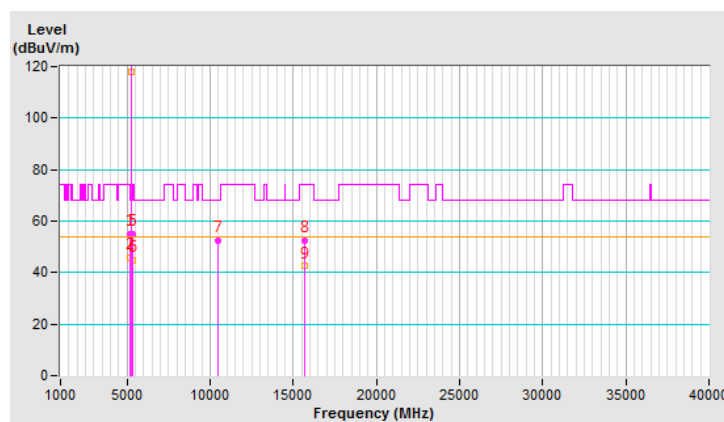


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	55.1 PK	74.0	-18.9	1.65 V	4	51.6	3.5
2	5150.00	45.6 AV	54.0	-8.4	1.65 V	4	42.1	3.5
3	*5240.00	126.1 PK			1.65 V	4	123.1	3.0
4	*5240.00	118.2 AV			1.65 V	4	115.2	3.0
5	5350.00	54.8 PK	74.0	-19.2	1.65 V	4	51.5	3.3
6	5350.00	44.8 AV	54.0	-9.2	1.65 V	4	41.5	3.3
7	#10480.00	52.6 PK	68.2	-15.6	2.08 V	193	39.1	13.5
8	15720.00	52.4 PK	74.0	-21.6	1.62 V	219	39.6	12.8
9	15720.00	42.5 AV	54.0	-11.5	1.62 V	219	29.7	12.8
10	20960.00	-	-	-	-	-	-	-
11	#26200.00	-	-	-	-	-	-	-
12	31440.00	-	-	-	-	-	-	-
13	#36680.00	-	-	-	-	-	-	-

REMARKS:

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



802.11ax (HE20)

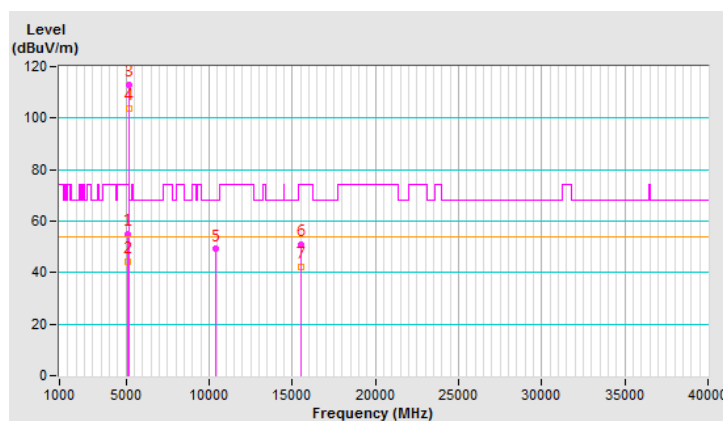
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	5138.00	54.8 PK	74.0	-19.2	1.41 H	239	51.3	3.5
2	5138.00	44.1 AV	54.0	-9.9	1.41 H	239	40.6	3.5
3	*5180.00	113.1 PK			1.41 H	239	109.7	3.4
4	*5180.00	103.8 AV			1.41 H	239	100.4	3.4
5	#10360.00	49.1 PK	68.2	-19.1	1.44 H	229	36.0	13.1
6	15540.00	50.8 PK	74.0	-23.2	2.42 H	334	37.2	13.6
7	15540.00	42.2 AV	54.0	-11.8	2.42 H	334	28.6	13.6
8	20720.00	-	-	-	-	-	-	-
9	#25900.00	-	-	-	-	-	-	-
10	#31080.00	-	-	-	-	-	-	-
11	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

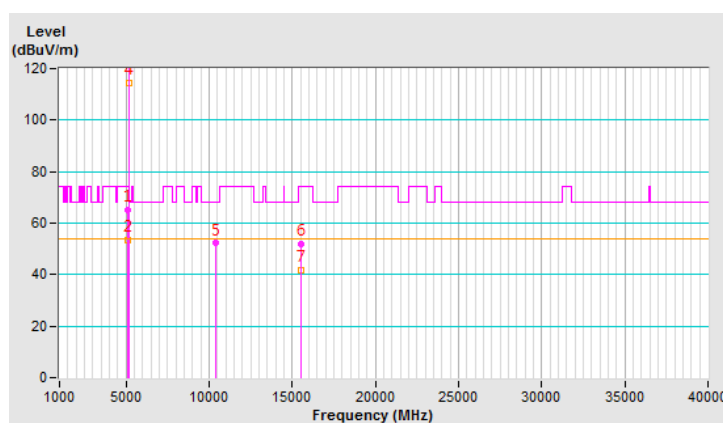


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 36：5180 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	5138.00	65.2 PK	74.0	-8.8	1.61 V	186	61.7	3.5
2	5138.00	53.4 AV	54.0	-0.6	1.61 V	186	49.9	3.5
3	*5180.00	124.2 PK			1.61 V	186	120.8	3.4
4	*5180.00	114.6 AV			1.61 V	186	111.2	3.4
5	#10360.00	52.2 PK	68.2	-16.0	2.11 V	198	39.1	13.1
6	15540.00	52.1 PK	74.0	-21.9	1.54 V	208	38.5	13.6
7	15540.00	41.8 AV	54.0	-12.2	1.54 V	208	28.2	13.6
8	20720.00	-	-	-	-	-	-	-
9	#25900.00	-	-	-	-	-	-	-
10	#31080.00	-	-	-	-	-	-	-
11	#36260.00	-	-	-	-	-	-	-

REMARKS:

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

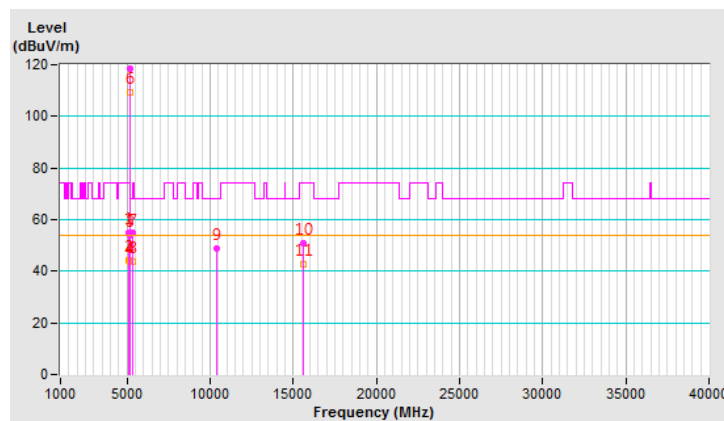


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	5140.30	54.9 PK	74.0	-19.1	1.45 H	204	51.4	3.5
2	5140.30	44.1 AV	54.0	-9.9	1.45 H	204	40.6	3.5
3	5150.00	54.1 PK	74.0	-19.9	1.45 H	204	50.6	3.5
4	5150.00	43.7 AV	54.0	-10.3	1.45 H	204	40.2	3.5
5	*5200.00	118.4 PK			1.45 H	204	115.0	3.4
6	*5200.00	109.5 AV			1.45 H	204	106.1	3.4
7	5350.00	54.7 PK	74.0	-19.3	1.45 H	204	51.4	3.3
8	5350.00	43.7 AV	54.0	-10.3	1.45 H	204	40.4	3.3
9	#10400.00	48.9 PK	68.2	-19.3	1.44 H	200	35.5	13.4
10	15600.00	51.1 PK	74.0	-22.9	2.39 H	309	37.7	13.4
11	15600.00	42.7 AV	54.0	-11.3	2.39 H	309	29.3	13.4
12	20800.00	-	-	-	-	-	-	-
13	#26000.00	-	-	-	-	-	-	-
14	31200.00	-	-	-	-	-	-	-
15	#36400.00	-	-	-	-	-	-	-

REMARKS:

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

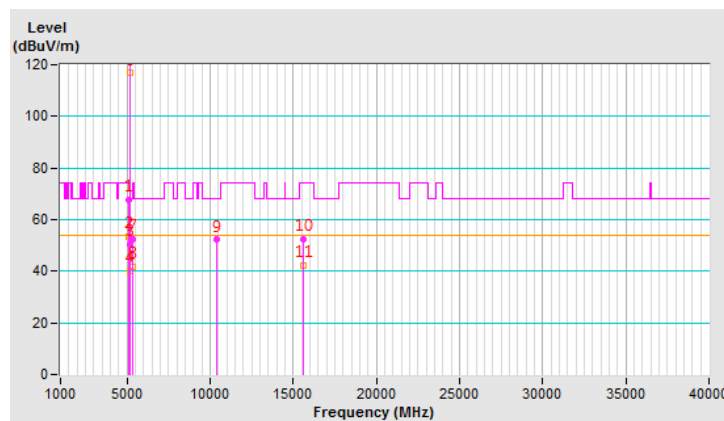


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 40：5200 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	5140.30	67.8 PK	74.0	-6.2	1.39 V	179	64.3	3.5
2	5140.30	53.5 AV	54.0	-0.5	1.39 V	179	50.0	3.5
3	5150.00	50.3 PK	74.0	-23.7	1.34 V	226	46.8	3.5
4	5150.00	40.2 AV	54.0	-13.8	1.34 V	226	36.7	3.5
5	*5200.00	127.4 PK			1.39 V	179	124.0	3.4
6	*5200.00	116.7 AV			1.39 V	179	113.3	3.4
7	5350.00	52.3 PK	74.0	-21.7	1.46 V	223	49.0	3.3
8	5350.00	41.6 AV	54.0	-12.4	1.46 V	223	38.3	3.3
9	#10400.00	52.2 PK	68.2	-16.0	2.16 V	190	38.8	13.4
10	15600.00	52.5 PK	74.0	-21.5	1.61 V	198	39.1	13.4
11	15600.00	42.4 AV	54.0	-11.6	1.61 V	198	29.0	13.4
12	20800.00	-	-	-	-	-	-	-
13	#26000.00	-	-	-	-	-	-	-
14	31200.00	-	-	-	-	-	-	-
15	#36400.00	-	-	-	-	-	-	-

REMARKS:

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



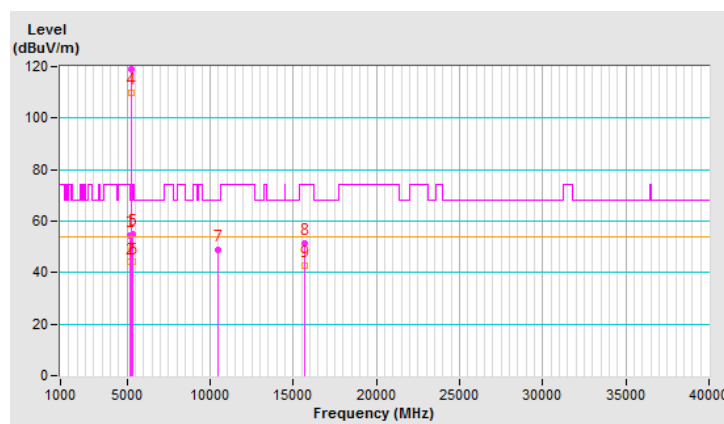
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	54.5 PK	74.0	-19.5	1.36 H	204	51.0	3.5
2	5150.00	44.0 AV	54.0	-10.0	1.36 H	204	40.5	3.5
3	*5240.00	119.0 PK			1.36 H	204	116.0	3.0
4	*5240.00	109.7 AV			1.36 H	204	106.7	3.0
5	5350.00	55.0 PK	74.0	-19.0	1.36 H	204	51.7	3.3
6	5350.00	44.0 AV	54.0	-10.0	1.36 H	204	40.7	3.3
7	#10480.00	49.0 PK	68.2	-19.2	1.41 H	200	35.5	13.5
8	15720.00	51.2 PK	74.0	-22.8	2.39 H	323	38.4	12.8
9	15720.00	42.7 AV	54.0	-11.3	2.39 H	323	29.9	12.8
10	20960.00	-	-	-	-	-	-	-
11	#26200.00	-	-	-	-	-	-	-
12	31440.00	-	-	-	-	-	-	-
13	#36680.00	-	-	-	-	-	-	-

REMARKS:

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

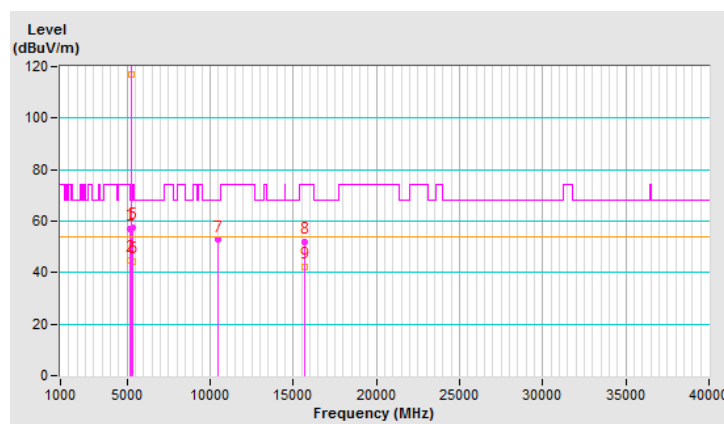


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 48：5240 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	56.8 PK	74.0	-17.2	2.42 V	192	53.3	3.5
2	5150.00	44.8 AV	54.0	-9.2	2.42 V	192	41.3	3.5
3	*5240.00	127.1 PK			2.42 V	192	124.1	3.0
4	*5240.00	116.8 AV			2.42 V	192	113.8	3.0
5	5350.00	57.4 PK	74.0	-16.6	2.42 V	192	54.1	3.3
6	5350.00	44.1 AV	54.0	-9.9	2.42 V	192	40.8	3.3
7	#10480.00	52.7 PK	68.2	-15.5	2.07 V	182	39.2	13.5
8	15720.00	52.1 PK	74.0	-21.9	1.63 V	218	39.3	12.8
9	15720.00	42.1 AV	54.0	-11.9	1.63 V	218	29.3	12.8
10	20960.00	-	-	-	-	-	-	-
11	#26200.00	-	-	-	-	-	-	-
12	31440.00	-	-	-	-	-	-	-
13	#36680.00	-	-	-	-	-	-	-

REMARKS:

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



802.11ax (HE40)

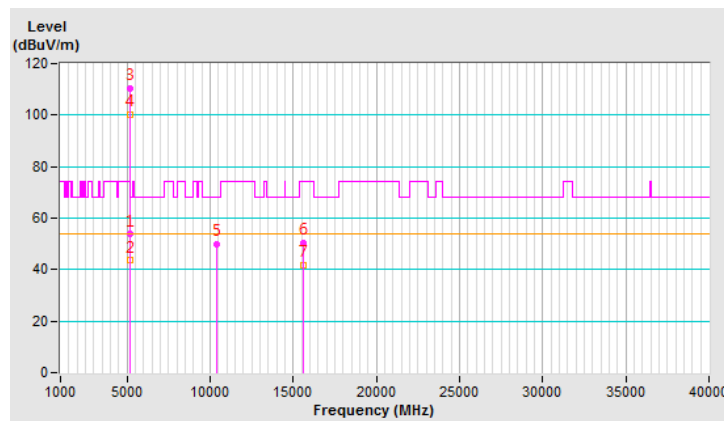
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	53.7 PK	74.0	-20.3	1.39 H	224	50.2	3.5
2	5150.00	43.5 AV	54.0	-10.5	1.39 H	224	40.0	3.5
3	*5190.00	110.3 PK			1.39 H	224	106.9	3.4
4	*5190.00	100.2 AV			1.39 H	224	96.8	3.4
5	#10380.00	50.0 PK	68.2	-18.2	1.39 H	205	36.7	13.3
6	15570.00	50.5 PK	74.0	-23.5	2.36 H	308	37.1	13.4
7	15570.00	41.8 AV	54.0	-12.2	2.36 H	308	28.4	13.4
8	20760.00	-	-	-	-	-	-	-
9	#25950.00	-	-	-	-	-	-	-
10	#31140.00	-	-	-	-	-	-	-
11	#36330.00	-	-	-	-	-	-	-

REMARKS:

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



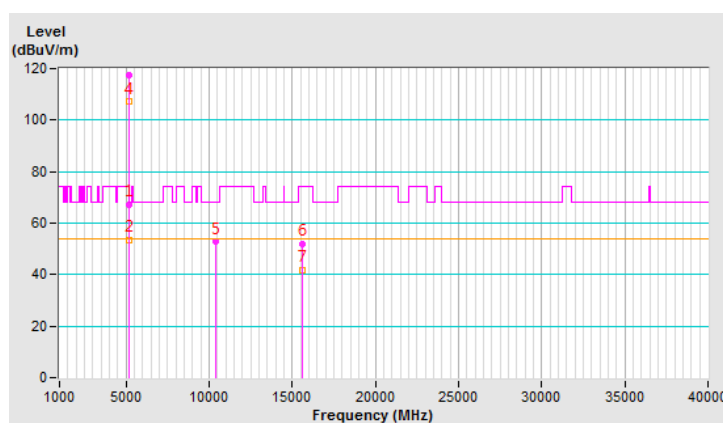
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 38 : 5190 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.3 PK	74.0	-6.7	1.78 V	191	63.8	3.5
2	5150.00	53.4 AV	54.0	-0.6	1.78 V	191	49.9	3.5
3	*5190.00	117.5 PK			1.78 V	191	114.1	3.4
4	*5190.00	107.1 AV			1.78 V	191	103.7	3.4
5	#10380.00	52.7 PK	68.2	-15.5	2.04 V	185	39.4	13.3
6	15570.00	51.9 PK	74.0	-22.1	1.58 V	216	38.5	13.4
7	15570.00	41.8 AV	54.0	-12.2	1.58 V	216	28.4	13.4
8	20760.00	-	-	-	-	-	-	-
9	#25950.00	-	-	-	-	-	-	-
10	#31140.00	-	-	-	-	-	-	-
11	#36330.00	-	-	-	-	-	-	-

REMARKS:

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



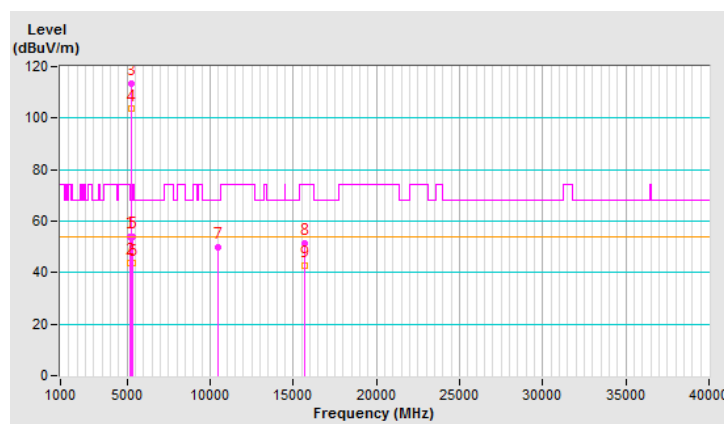
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108年8月23日	測試者：	鄭樹營

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	54.1 PK	74.0	-19.9	1.40 H	240	50.6	3.5
2	5150.00	43.6 AV	54.0	-10.4	1.40 H	240	40.1	3.5
3	*5230.00	113.3 PK			1.40 H	240	110.2	3.1
4	*5230.00	103.5 AV			1.40 H	240	100.4	3.1
5	5350.00	53.9 PK	74.0	-20.1	1.40 H	240	50.6	3.3
6	5350.00	43.5 AV	54.0	-10.5	1.40 H	240	40.2	3.3
7	#10460.00	50.0 PK	68.2	-18.2	1.36 H	198	36.5	13.5
8	15690.00	51.4 PK	74.0	-22.6	2.30 H	328	38.5	12.9
9	15690.00	42.6 AV	54.0	-11.4	2.30 H	328	29.7	12.9
10	20920.00	-	-	-	-	-	-	-
11	#26150.00	-	-	-	-	-	-	-
12	31380.00	-	-	-	-	-	-	-
13	#36610.00	-	-	-	-	-	-	-

REMARKS:

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

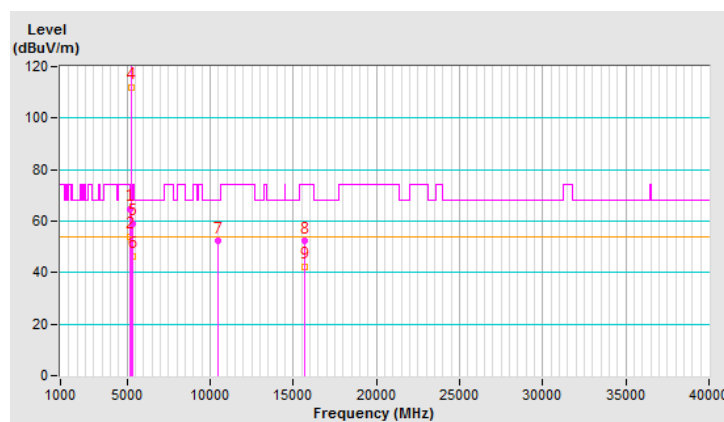


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 46：5230 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	64.6 PK	74.0	-9.4	1.38 V	168	61.1	3.5
2	5150.00	53.8 AV	54.0	-0.2	1.38 V	168	50.3	3.5
3	*5230.00	121.7 PK			1.38 V	168	118.6	3.1
4	*5230.00	112.1 AV			1.38 V	168	109.0	3.1
5	5350.00	58.9 PK	74.0	-15.1	1.38 V	168	55.6	3.3
6	5350.00	46.5 AV	54.0	-7.5	1.38 V	168	43.2	3.3
7	#10460.00	52.2 PK	68.2	-16.0	2.15 V	209	38.7	13.5
8	15690.00	52.2 PK	74.0	-21.8	1.59 V	202	39.3	12.9
9	15690.00	42.2 AV	54.0	-11.8	1.59 V	202	29.3	12.9
10	20920.00	-	-	-	-	-	-	-
11	#26150.00	-	-	-	-	-	-	-
12	31380.00	-	-	-	-	-	-	-
13	#36610.00	-	-	-	-	-	-	-

REMARKS:

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



802.11ax (HE80)

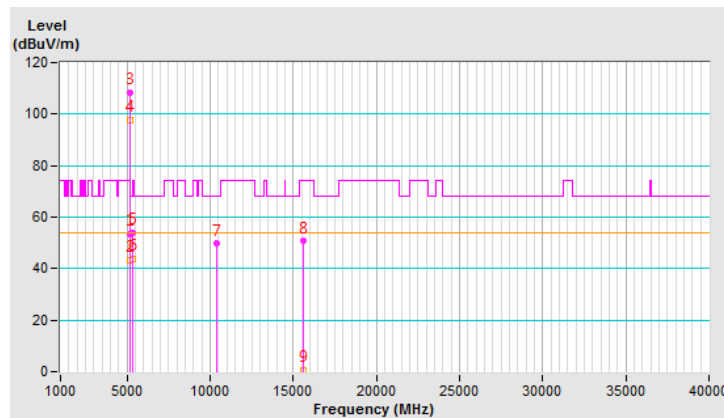
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	53.6 PK	74.0	-20.4	1.43 H	235	50.1	3.5
2	5150.00	43.2 AV	54.0	-10.8	1.43 H	235	39.7	3.5
3	*5210.00	108.3 PK			1.43 H	235	105.0	3.3
4	*5210.00	97.6 AV			1.43 H	235	94.3	3.3
5	5350.00	54.0 PK	74.0	-20.0	1.43 H	235	50.7	3.3
6	5350.00	43.8 AV	54.0	-10.2	1.43 H	235	40.5	3.3
7	#10420.00	49.6 PK	68.2	-18.6	1.23 H	199	36.1	13.5
8	15630.00	50.6 PK	74.0	-23.4	2.14 H	321	37.4	13.2
9	15630.00	0.5 AV	54.0	-53.5	2.14 H	321	-12.7	13.2
10	20840.00	-	-	-	-	-	-	-
11	#26050.00	-	-	-	-	-	-	-
12	31260.00	-	-	-	-	-	-	-
13	36470.00	-	-	-	-	-	-	-

REMARKS:

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



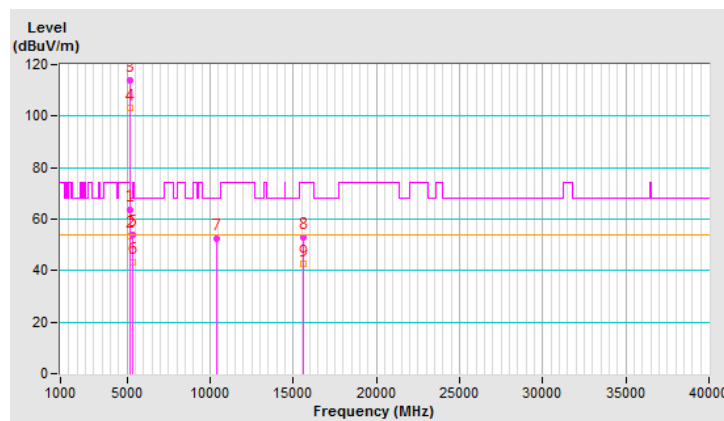
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 42：5210 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	63.6 PK	74.0	-10.4	1.44 V	167	60.1	3.5
2	5150.00	53.5 AV	54.0	-0.5	1.44 V	167	50.0	3.5
3	*5210.00	113.9 PK			1.44 V	167	110.6	3.3
4	*5210.00	103.0 AV			1.44 V	167	99.7	3.3
5	5350.00	54.1 PK	74.0	-19.9	1.44 V	167	50.8	3.3
6	5350.00	43.4 AV	54.0	-10.6	1.44 V	167	40.1	3.3
7	#10420.00	52.5 PK	68.2	-15.7	2.04 V	195	39.0	13.5
8	15630.00	52.8 PK	74.0	-21.2	1.56 V	223	39.6	13.2
9	15630.00	42.5 AV	54.0	-11.5	1.56 V	223	29.3	13.2
10	20840.00	-	-	-	-	-	-	-
11	#26050.00	-	-	-	-	-	-	-
12	31260.00	-	-	-	-	-	-	-
13	36470.00	-	-	-	-	-	-	-

REMARKS:

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

[Notes End]



For U-NII-3:

802.11a

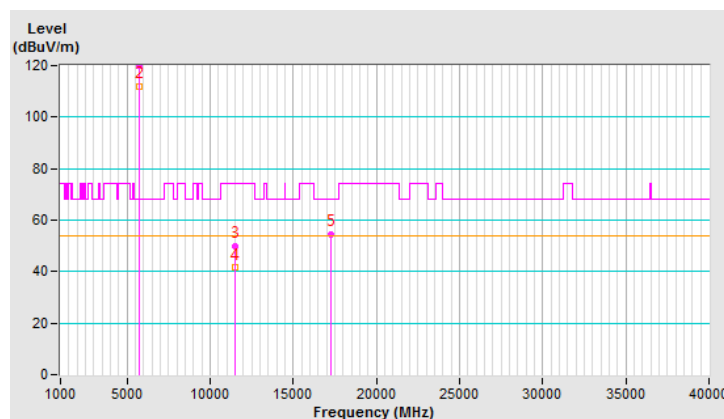
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	120.2 PK			2.35 H	349	116.3	3.9
2	*5745.00	111.8 AV			2.35 H	349	107.9	3.9
3	11490.00	49.8 PK	74.0	-24.2	2.30 H	322	35.6	14.2
4	11490.00	41.5 AV	54.0	-12.5	2.30 H	322	27.3	14.2
5	#17235.00	54.6 PK	68.2	-13.6	2.85 H	269	37.3	17.3
6	22980.00	-	-	-	-	-	-	-
7	#28725.00	-	-	-	-	-	-	-
8	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

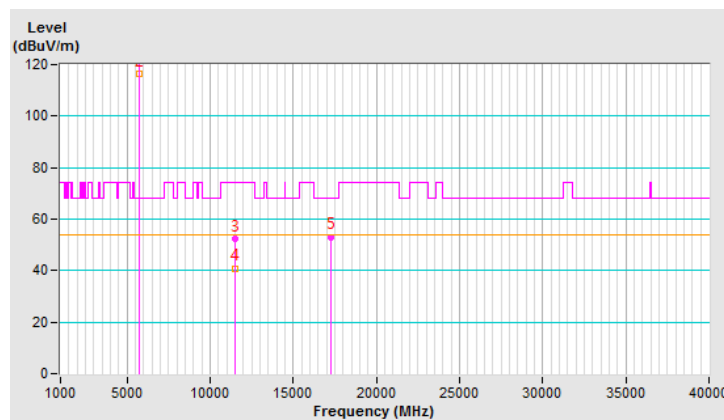


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	123.1 PK			2.58 V	16	119.2	3.9
2	*5745.00	116.2 AV			2.58 V	16	112.3	3.9
3	11490.00	52.2 PK	74.0	-21.8	2.14 V	177	38.0	14.2
4	11490.00	40.8 AV	54.0	-13.2	2.14 V	177	26.6	14.2
5	#17235.00	53.1 PK	68.2	-15.1	1.62 V	212	35.8	17.3
6	22980.00	-	-	-	-	-	-	-
7	#28725.00	-	-	-	-	-	-	-
8	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

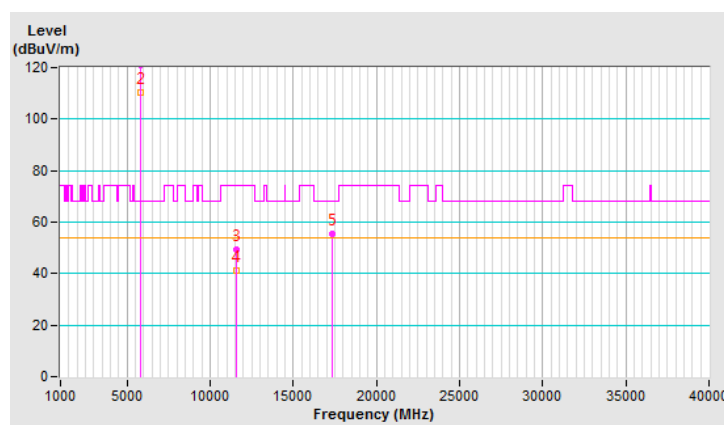


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	121.0 PK			1.50 H	140	117.0	4.0
2	*5785.00	110.4 AV			1.50 H	140	106.4	4.0
3	11570.00	49.4 PK	74.0	-24.6	2.35 H	315	35.2	14.2
4	11570.00	41.2 AV	54.0	-12.8	2.35 H	315	27.0	14.2
5	#17355.00	55.3 PK	68.2	-12.9	2.81 H	260	37.6	17.7
6	#23140.00	-	-	-	-	-	-	-
7	#28925.00	-	-	-	-	-	-	-
8	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

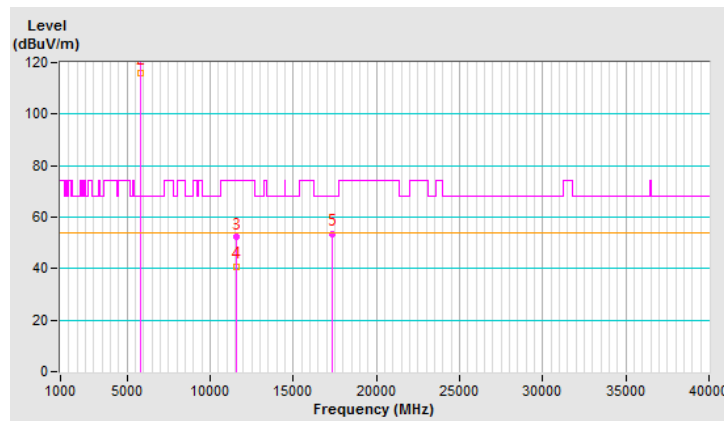


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.4 PK			2.57 V	349	118.4	4.0
2	*5785.00	116.1 AV			2.57 V	349	112.1	4.0
3	11570.00	52.2 PK	74.0	-21.8	2.15 V	173	38.0	14.2
4	11570.00	40.6 AV	54.0	-13.4	2.15 V	173	26.4	14.2
5	#17355.00	53.4 PK	68.2	-14.8	1.60 V	212	35.7	17.7
6	#23140.00	-	-	-	-	-	-	-
7	#28925.00	-	-	-	-	-	-	-
8	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

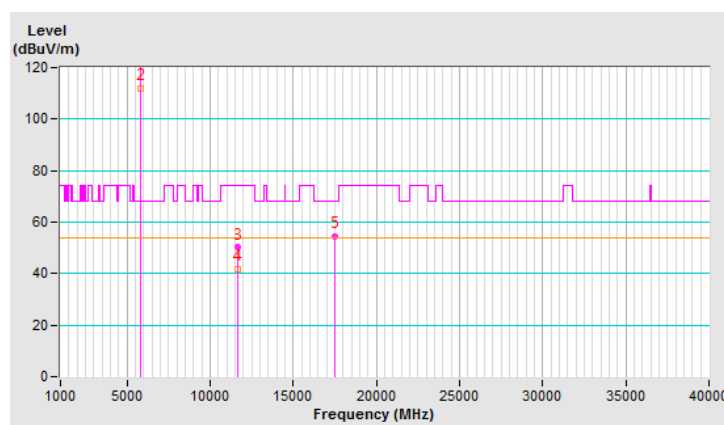


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.2 PK			2.43 H	198	118.0	4.2
2	*5825.00	112.0 AV			2.43 H	198	107.8	4.2
3	11650.00	50.1 PK	74.0	-23.9	2.33 H	321	36.2	13.9
4	11650.00	41.6 AV	54.0	-12.4	2.33 H	321	27.7	13.9
5	#17475.00	54.6 PK	68.2	-13.6	2.80 H	268	35.8	18.8
6	#23300.00	-	-	-	-	-	-	-
7	#29125.00	-	-	-	-	-	-	-
8	#34950.00	-	-	-	-	-	-	-

REMARKS:

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

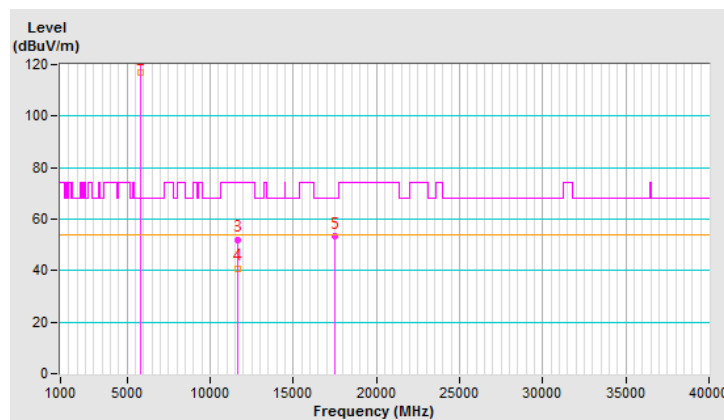


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.8 PK			2.43 V	355	118.6	4.2
2	*5825.00	116.7 AV			2.43 V	355	112.5	4.2
3	11650.00	52.0 PK	74.0	-22.0	2.17 V	189	38.1	13.9
4	11650.00	40.6 AV	54.0	-13.4	2.17 V	189	26.7	13.9
5	#17475.00	53.2 PK	68.2	-15.0	1.60 V	205	34.4	18.8
6	#23300.00	-	-	-	-	-	-	-
7	#29125.00	-	-	-	-	-	-	-
8	#34950.00	-	-	-	-	-	-	-

REMARKS:

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



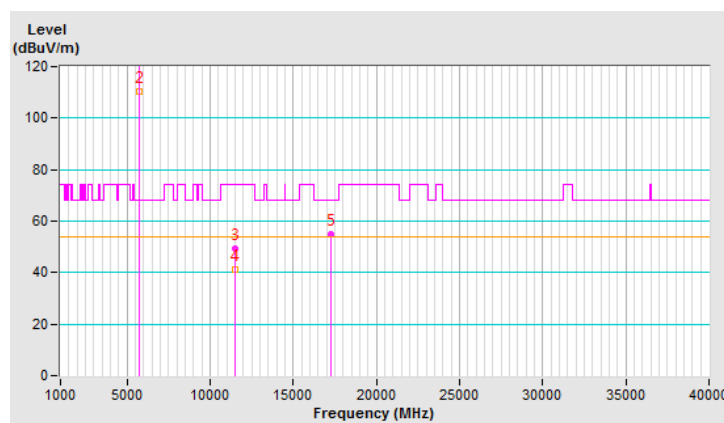
802.11ax (HE20)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	121.3 PK			1.58 H	171	117.4	3.9
2	*5745.00	110.3 AV			1.58 H	171	106.4	3.9
3	11490.00	49.5 PK	74.0	-24.5	2.25 H	331	35.3	14.2
4	11490.00	41.1 AV	54.0	-12.9	2.25 H	331	26.9	14.2
5	#17235.00	54.8 PK	68.2	-13.4	2.86 H	282	37.5	17.3
6	22980.00	-	-	-	-	-	-	-
7	#28725.00	-	-	-	-	-	-	-
8	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

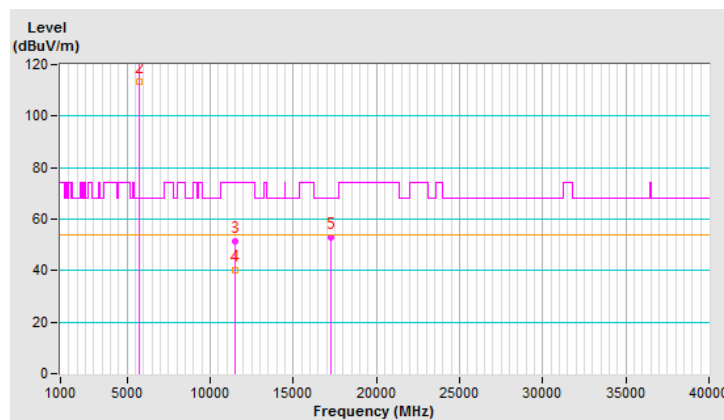


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.5 PK			2.45 V	18	118.6	3.9
2	*5745.00	113.6 AV			2.45 V	18	109.7	3.9
3	11490.00	51.5 PK	74.0	-22.5	2.15 V	181	37.3	14.2
4	11490.00	40.2 AV	54.0	-13.8	2.15 V	181	26.0	14.2
5	#17235.00	53.1 PK	68.2	-15.1	1.62 V	197	35.8	17.3
6	22980.00	-	-	-	-	-	-	-
7	#28725.00	-	-	-	-	-	-	-
8	#34470.00	-	-	-	-	-	-	-

REMARKS:

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

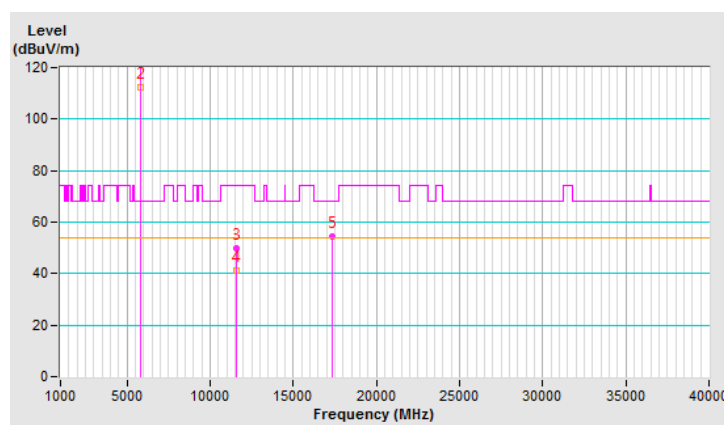


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	121.7 PK			1.48 H	140	117.7	4.0
2	*5785.00	112.5 AV			1.48 H	140	108.5	4.0
3	11570.00	49.7 PK	74.0	-24.3	2.30 H	325	35.5	14.2
4	11570.00	41.4 AV	54.0	-12.6	2.30 H	325	27.2	14.2
5	#17355.00	54.6 PK	68.2	-13.6	2.86 H	272	36.9	17.7
6	#23140.00	-	-	-	-	-	-	-
7	#28925.00	-	-	-	-	-	-	-
8	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

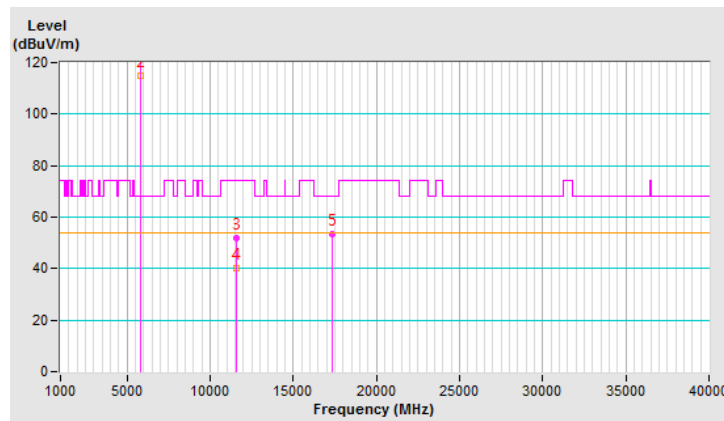


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.3 PK			2.46 V	5	118.3	4.0
2	*5785.00	114.8 AV			2.46 V	5	110.8	4.0
3	11570.00	52.1 PK	74.0	-21.9	2.20 V	169	37.9	14.2
4	11570.00	40.4 AV	54.0	-13.6	2.20 V	169	26.2	14.2
5	#17355.00	53.3 PK	68.2	-14.9	1.60 V	196	35.6	17.7
6	#23140.00	-	-	-	-	-	-	-
7	#28925.00	-	-	-	-	-	-	-
8	#34710.00	-	-	-	-	-	-	-

REMARKS:

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

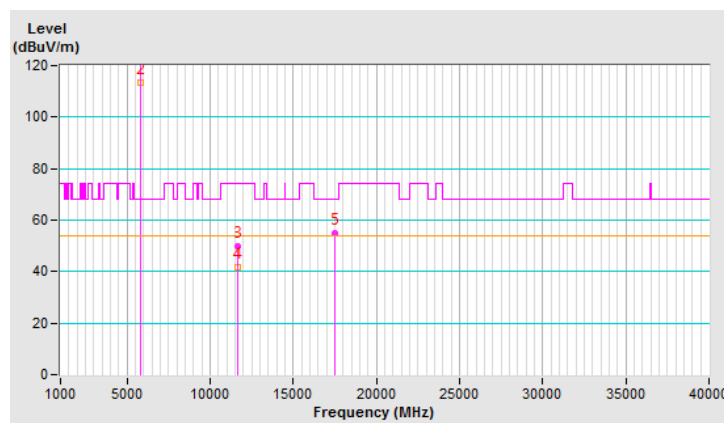


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.5 PK			2.48 H	198	118.3	4.2
2	*5825.00	113.6 AV			2.48 H	198	109.4	4.2
3	11650.00	49.8 PK	74.0	-24.2	2.29 H	332	35.9	13.9
4	11650.00	41.7 AV	54.0	-12.3	2.29 H	332	27.8	13.9
5	#17475.00	54.8 PK	68.2	-13.4	2.89 H	273	36.0	18.8
6	#23300.00	-	-	-	-	-	-	-
7	#29125.00	-	-	-	-	-	-	-
8	#34950.00	-	-	-	-	-	-	-

REMARKS:

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

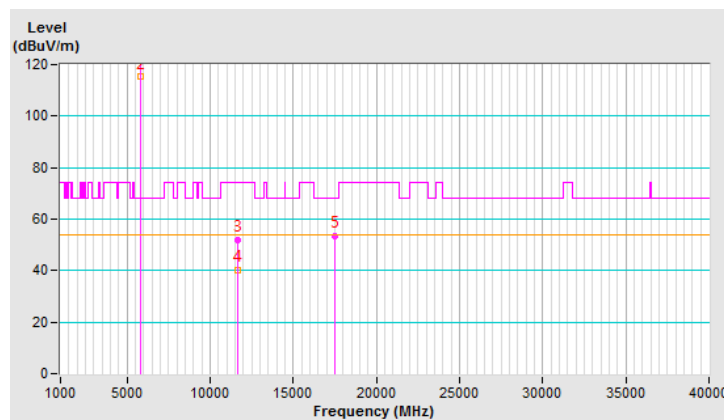


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	123.1 PK			2.47 V	14	118.9	4.2
2	*5825.00	115.2 AV			2.47 V	14	111.0	4.2
3	11650.00	52.0 PK	74.0	-22.0	2.09 V	168	38.1	13.9
4	11650.00	40.2 AV	54.0	-13.8	2.09 V	168	26.3	13.9
5	#17475.00	53.6 PK	68.2	-14.6	1.55 V	209	34.8	18.8
6	#23300.00	-	-	-	-	-	-	-
7	#29125.00	-	-	-	-	-	-	-
8	#34950.00	-	-	-	-	-	-	-

REMARKS:

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



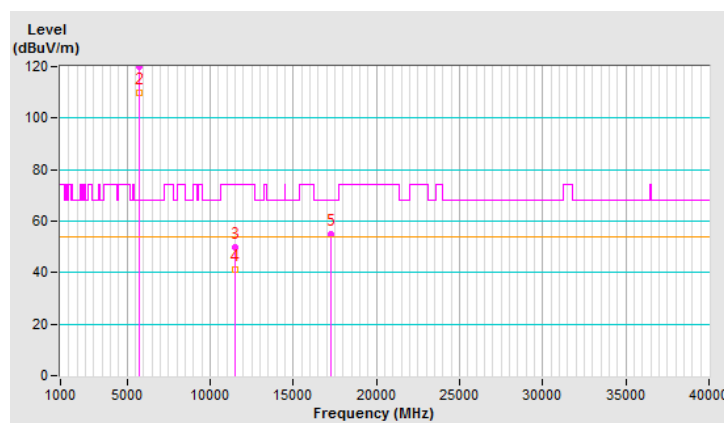
802.11ax (HE40)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151 : 5755 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	120.2 PK			1.49 H	144	116.3	3.9
2	*5755.00	109.8 AV			1.49 H	144	105.9	3.9
3	11510.00	49.7 PK	74.0	-24.3	2.27 H	336	35.5	14.2
4	11510.00	41.4 AV	54.0	-12.6	2.27 H	336	27.2	14.2
5	#17265.00	54.9 PK	68.2	-13.3	2.88 H	259	37.7	17.2
6	23020.00	-	-	-	-	-	-	-
7	#28775.00	-	-	-	-	-	-	-
8	#34530.00	-	-	-	-	-	-	-

REMARKS:

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

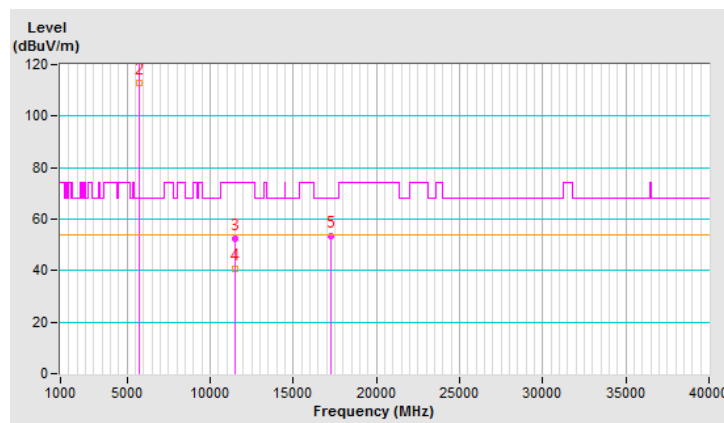


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151：5755 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	121.3 PK			2.38 V	355	117.4	3.9
2	*5755.00	112.9 AV			2.38 V	355	109.0	3.9
3	11510.00	52.4 PK	74.0	-21.6	2.18 V	181	38.2	14.2
4	11510.00	40.8 AV	54.0	-13.2	2.18 V	181	26.6	14.2
5	#17265.00	53.6 PK	68.2	-14.6	1.60 V	223	36.4	17.2
6	23020.00	-	-	-	-	-	-	-
7	#28775.00	-	-	-	-	-	-	-
8	#34530.00	-	-	-	-	-	-	-

REMARKS:

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

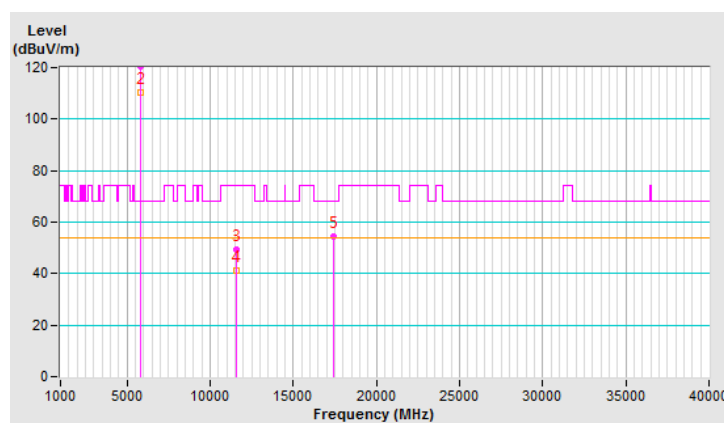


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	120.7 PK			2.92 H	143	116.7	4.0
2	*5795.00	110.5 AV			2.92 H	143	106.5	4.0
3	11590.00	49.5 PK	74.0	-24.5	2.26 H	324	35.3	14.2
4	11590.00	41.4 AV	54.0	-12.6	2.26 H	324	27.2	14.2
5	#17385.00	54.4 PK	68.2	-13.8	2.88 H	258	36.6	17.8
6	#23180.00	-	-	-	-	-	-	-
7	#28975.00	-	-	-	-	-	-	-
8	#34770.00	-	-	-	-	-	-	-

REMARKS:

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

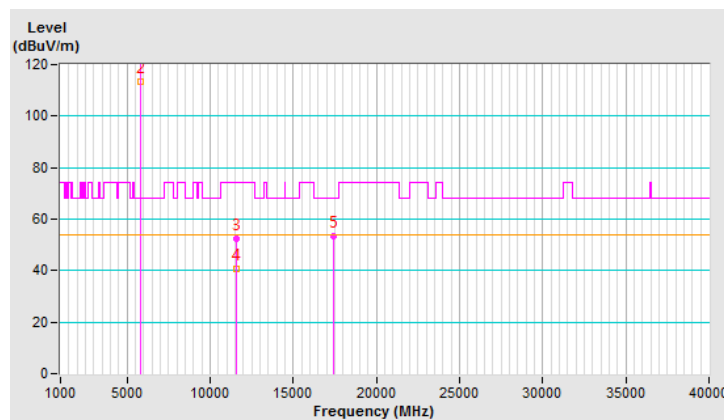


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	122.0 PK			2.35 V	356	118.0	4.0
2	*5795.00	113.6 AV			2.35 V	356	109.6	4.0
3	11590.00	52.6 PK	74.0	-21.4	2.16 V	175	38.4	14.2
4	11590.00	40.8 AV	54.0	-13.2	2.16 V	175	26.6	14.2
5	#17385.00	53.3 PK	68.2	-14.9	1.59 V	217	35.5	17.8
6	#23180.00	-	-	-	-	-	-	-
7	#28975.00	-	-	-	-	-	-	-
8	#34770.00	-	-	-	-	-	-	-

REMARKS:

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



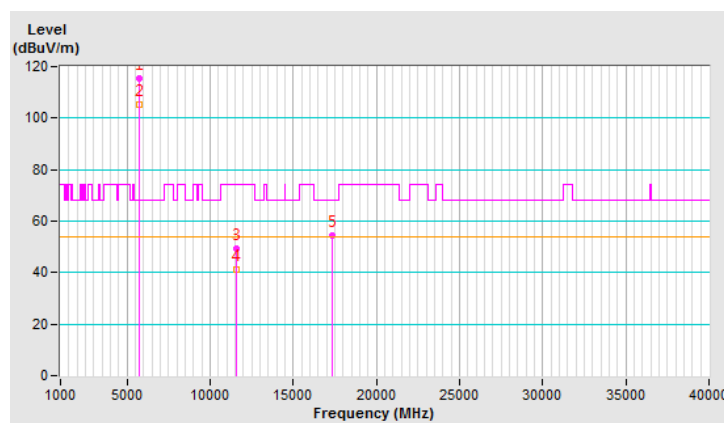
802.11ax (HE80)

操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155 : 5775 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5775.00	115.6 PK			3.33 H	140	111.7	3.9
2	*5775.00	105.3 AV			3.33 H	140	101.4	3.9
3	11550.00	49.3 PK	74.0	-24.7	2.35 H	328	35.1	14.2
4	11550.00	41.3 AV	54.0	-12.7	2.35 H	328	27.1	14.2
5	#17325.00	54.5 PK	68.2	-13.7	2.81 H	262	37.1	17.4
6	23100.00	-	-	-	-	-	-	-
7	#28875.00	-	-	-	-	-	-	-
8	#34650.00	-	-	-	-	-	-	-

REMARKS:

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

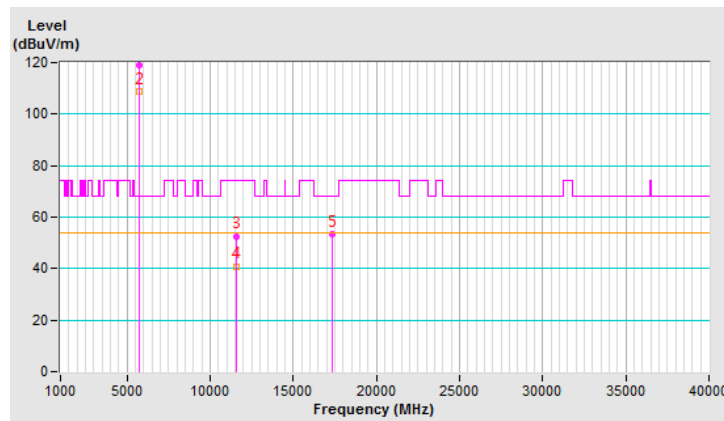


操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155 : 5775 MHz	測試儀器：	(PK) RB=1MHz, VB=1MHz (AV) RB=1MHz, VB=300Hz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	119.0 PK			2.48 V	357	115.1	3.9
2	*5775.00	108.6 AV			2.48 V	357	104.7	3.9
3	11550.00	52.6 PK	74.0	-21.4	2.17 V	162	38.4	14.2
4	11550.00	40.8 AV	54.0	-13.2	2.17 V	162	26.6	14.2
5	#17325.00	53.2 PK	68.2	-15.0	1.57 V	221	35.8	17.4
6	23100.00	-	-	-	-	-	-	-
7	#28875.00	-	-	-	-	-	-	-
8	#34650.00	-	-	-	-	-	-	-

REMARKS:

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

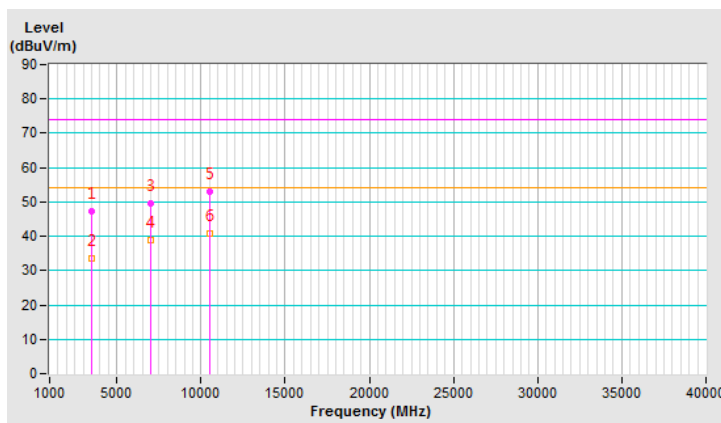
For U-NII-1

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：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	47.3 PK	74.0	-26.7	3.17 H	210	47.8	-0.5
2	3493.33	33.6 AV	54.0	-20.4	3.17 H	210	34.1	-0.5
3	6986.67	49.5 PK	74.0	-24.5	1.51 H	117	41.5	8.0
4	6986.67	38.8 AV	54.0	-15.2	1.51 H	117	30.8	8.0
5	10480.00	53.0 PK	74.0	-21.0	1.30 H	112	39.5	13.5
6	10480.00	40.8 AV	54.0	-13.2	1.30 H	112	27.3	13.5

REMARKS:

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

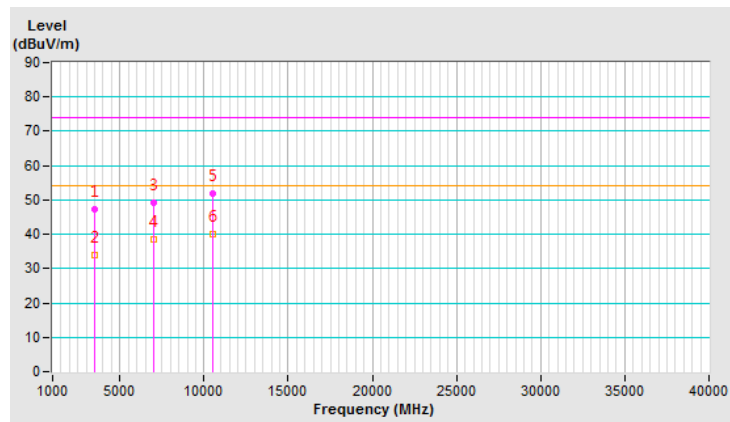


操作模式：	接收		
基本波頻率：	CH 48 : 5240 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	47.4 PK	74.0	-26.6	3.19 V	220	47.9	-0.5
2	3493.33	33.8 AV	54.0	-20.2	3.19 V	220	34.3	-0.5
3	6986.67	49.3 PK	74.0	-24.7	1.50 V	137	41.3	8.0
4	6986.67	38.5 AV	54.0	-15.5	1.50 V	137	30.5	8.0
5	10480.00	51.7 PK	74.0	-22.3	1.22 V	116	38.2	13.5
6	10480.00	40.0 AV	54.0	-14.0	1.22 V	116	26.5	13.5

REMARKS:

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



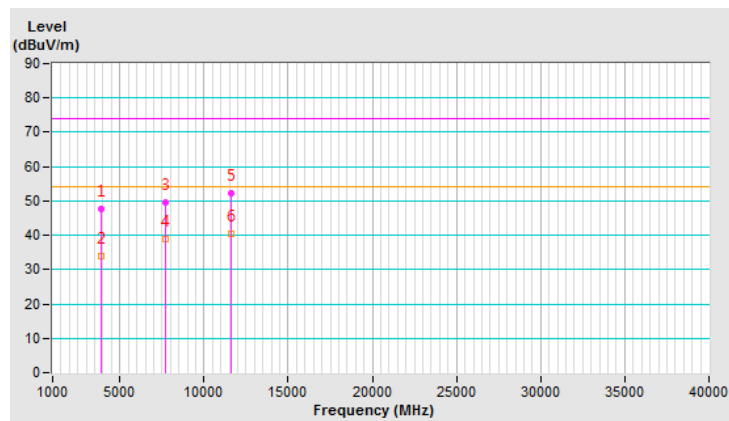
For U-NII-3

操作模式：	接收		
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	47.5 PK	74.0	-26.5	3.16 H	211	46.9	0.6
2	3856.67	33.8 AV	54.0	-20.2	3.16 H	211	33.2	0.6
3	7713.33	49.4 PK	74.0	-24.6	1.47 H	112	40.2	9.2
4	7713.33	38.8 AV	54.0	-15.2	1.47 H	112	29.6	9.2
5	11570.00	52.2 PK	74.0	-21.8	1.22 H	114	38.0	14.2
6	11570.00	40.3 AV	54.0	-13.7	1.22 H	114	26.1	14.2

REMARKS:

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

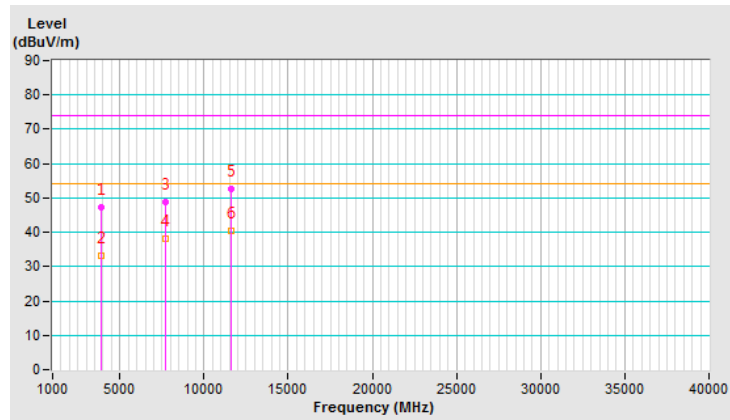


操作模式：	接收		
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	69%RH
測試日期：	108 年 8 月 23 日	測試者：	鄭樹營

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	47.1 PK	74.0	-26.9	3.16 V	214	46.5	0.6
2	3856.67	33.1 AV	54.0	-20.9	3.16 V	214	32.5	0.6
3	7713.33	48.9 PK	74.0	-25.1	1.50 V	126	39.7	9.2
4	7713.33	38.1 AV	54.0	-15.9	1.50 V	126	28.9	9.2
5	11570.00	52.7 PK	74.0	-21.3	1.22 V	90	38.5	14.2
6	11570.00	40.4 AV	54.0	-13.6	1.22 V	90	26.2	14.2

REMARKS:

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



9.6.3 其它不必要之訊號

For U-NII-1

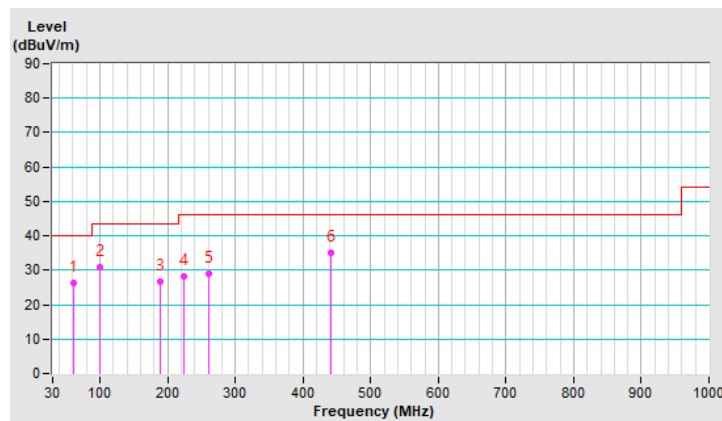
802.11a

操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	108 年 8 月 22 日	測試者：	陳星睿

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	61.86	26.4 QP	40.0	-13.6	1.00 H	271	35.5	-9.1
2	100.80	30.9 QP	43.5	-12.6	1.50 H	233	42.7	-11.8
3	189.19	26.7 QP	43.5	-16.8	1.50 H	105	36.8	-10.1
4	223.76	28.3 QP	46.0	-17.7	1.50 H	281	38.5	-10.2
5	260.09	29.0 QP	46.0	-17.0	2.00 H	57	37.4	-8.4
6	441.91	35.0 QP	46.0	-11.0	1.50 H	208	37.7	-2.7

REMARKS:

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



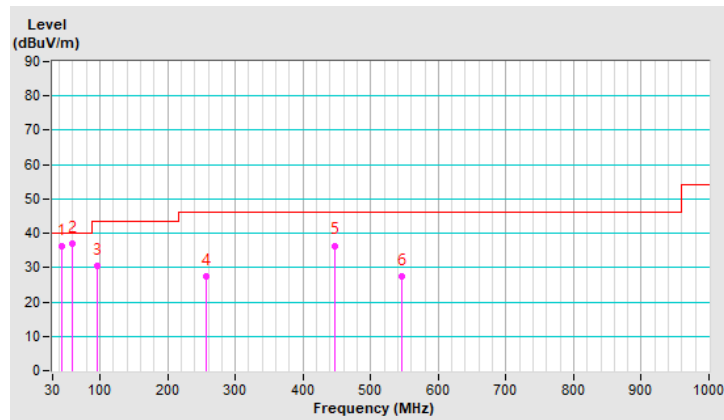
操作模式：	發射接收	調變技術：	OFDM
基本波頻率：	CH 48：5240 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	108 年 8 月 22 日	測試者：	陳星睿

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	42.81	36.1 QP	40.0	-3.9	1.00 V	296	44.5	-8.4
2	60.03	36.9 QP	40.0	-3.1	1.00 V	338	45.5	-8.6
3	96.77	30.4 QP	43.5	-13.1	1.00 V	227	42.9	-12.5
4	256.16	27.4 QP	46.0	-18.6	1.50 V	209	36.0	-8.6
5	447.96	36.4 QP	46.0	-9.6	1.50 V	144	39.0	-2.6
6	545.99	27.3 QP	46.0	-18.7	1.00 V	321	28.2	-0.9

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



For U-NII-3

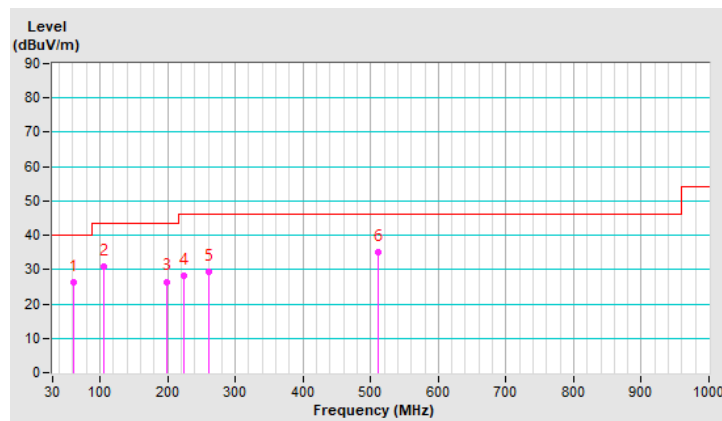
802.11ax (HE40)

操作模式：	發射接收	調變技術：	OFDMA
基本波頻率：	CH 159：5795 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	108年8月23日	測試者：	陳星睿

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	61.76	26.2 QP	40.0	-13.8	1.70 H	311	35.3	-9.1
2	104.80	30.9 QP	43.5	-12.6	1.80 H	273	42.2	-11.3
3	199.19	26.5 QP	43.5	-17.0	1.45 H	145	36.9	-10.4
4	223.66	28.3 QP	46.0	-17.7	1.56 H	311	38.5	-10.2
5	260.29	29.3 QP	46.0	-16.7	2.06 H	87	37.7	-8.4
6	511.91	35.0 QP	46.0	-11.0	1.70 H	248	36.4	-1.4

REMARKS:

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

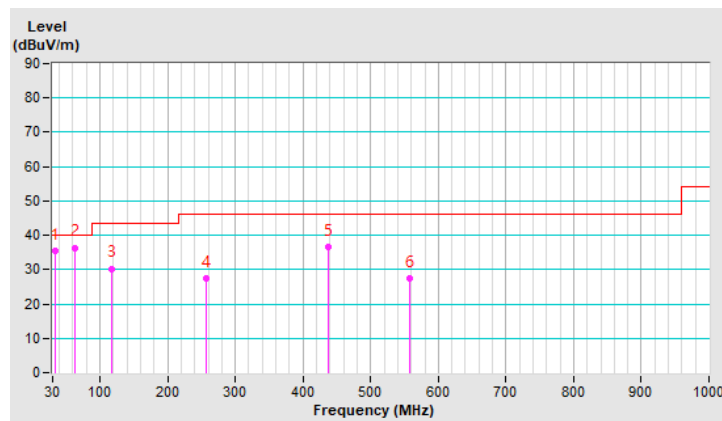


操作模式：	發射接收	調變技術：	OFDMA
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(QP) RB=120kHz
量測場地溫度：	23°C	量測場地濕度：	71%RH
測試日期：	108 年 8 月 23 日	測試者：	陳星睿

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	32.91	35.6 QP	40.0	-4.4	1.18 V	286	45.3	-9.7
2	62.23	36.4 QP	40.0	-3.6	1.40 V	358	45.5	-9.1
3	116.77	30.3 QP	43.5	-13.2	1.60 V	237	40.5	-10.2
4	256.16	27.4 QP	46.0	-18.6	1.50 V	259	36.0	-8.6
5	437.86	36.6 QP	46.0	-9.4	2.02 V	184	39.5	-2.9
6	556.99	27.3 QP	46.0	-18.7	2.00 V	301	28.0	-0.7

REMARKS:

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



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

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

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

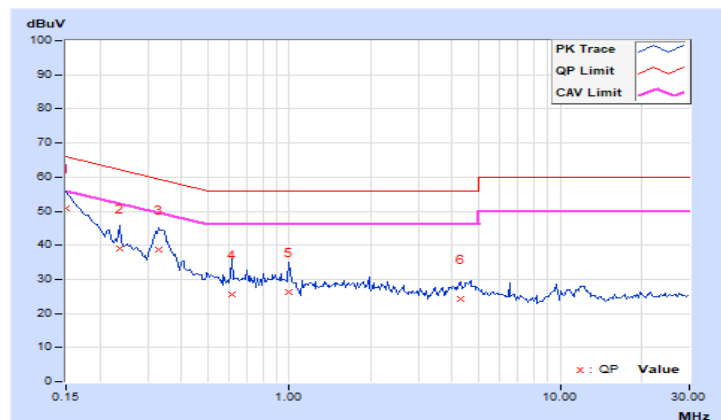
For U-NII-1:

操作模式	發射	測試日期	108 年 08 月 21 日
基本波頻率	CH 48: 5240MHz	量測場地溫度	24°C
調變技術	OFDM	量測場地濕度	76%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.
0.15000	9.96	40.88	23.63	50.84	33.59	66.00	56.00	-15.16	-22.41
0.23594	9.97	28.94	17.56	38.91	27.53	62.24	52.24	-23.33	-24.71
0.32969	9.98	28.87	20.08	38.85	30.06	59.46	49.46	-20.61	-19.40
0.61484	10.00	15.57	8.74	25.57	18.74	56.00	46.00	-30.43	-27.26
0.99766	10.03	16.22	10.13	26.25	20.16	56.00	46.00	-29.75	-25.84
4.29297	10.28	14.01	7.99	24.29	18.27	56.00	46.00	-31.71	-27.73

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	108 年 08 月 21 日
基本波頻率	CH 48: 5240MHz	量測場地溫度	24°C
調變技術	OFDM	量測場地濕度	76%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.
0.15000	9.94	40.85	22.81	50.79	32.75	66.00	56.00	-15.21	-23.25
0.18125	9.95	35.32	19.39	45.27	29.34	64.43	54.43	-19.16	-25.09
0.28281	9.96	25.72	16.41	35.68	26.37	60.73	50.73	-25.05	-24.36
0.33750	9.96	30.99	25.44	40.95	35.40	59.26	49.26	-18.31	-13.86
2.53906	10.12	15.15	9.96	25.27	20.08	56.00	46.00	-30.73	-25.92
10.00000	10.55	13.93	9.24	24.48	19.79	60.00	50.00	-35.52	-30.21

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.



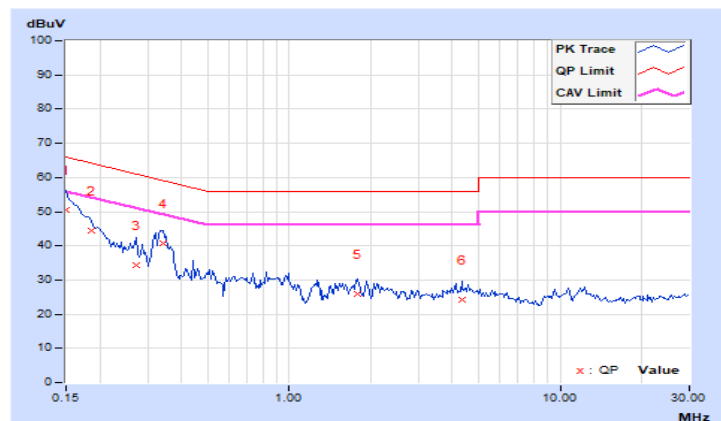
For U-NII-3:

操作模式	發射	測試日期	108 年 08 月 21 日
基本波頻率	CH 159: 5795MHz	量測場地溫度	24°C
調變技術	OFDMA	量測場地濕度	76%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.
0.15000	9.96	40.39	23.28	50.35	33.24	66.00	56.00	-15.65	-22.76
0.18515	9.97	34.55	18.75	44.52	28.72	64.25	54.25	-19.73	-25.53
0.27108	9.97	24.31	13.61	34.28	23.58	61.08	51.08	-26.80	-27.50
0.34140	9.98	30.72	25.76	40.70	35.74	59.17	49.17	-18.47	-13.43
1.79687	10.09	15.69	10.28	25.78	20.37	56.00	46.00	-30.22	-25.63
4.32812	10.28	14.12	8.01	24.40	18.29	56.00	46.00	-31.60	-27.71

NOTE:

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



操作模式	發射	測試日期	108 年 08 月 21 日
基本波頻率	CH 159: 5795MHz	量測場地溫度	24°C
調變技術	OFDMA	量測場地濕度	76%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.
0.15780	9.95	40.46	25.13	50.41	35.08	65.58	55.58	-15.17	-20.50
0.18125	9.95	35.31	19.48	45.26	29.43	64.43	54.43	-19.17	-25.00
0.32968	9.96	29.72	20.13	39.68	30.09	59.46	49.46	-19.78	-19.37
0.63437	9.99	15.76	10.10	25.75	20.09	56.00	46.00	-30.25	-25.91
0.89218	10.00	15.40	7.48	25.40	17.48	56.00	46.00	-30.60	-28.52
10.11327	10.56	14.55	9.28	25.11	19.84	60.00	50.00	-34.89	-30.16

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。

發射頻寬量測方法:

- 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。
- 最大輸出功率峰值減 26dB 的最大頻率範圍。

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	108 年 08 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	鄭樹營		

For U-NII-1:

Non-Beamforming 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	23.15	23.04	23.70	22.74	830.265	29.19	30.00	Pass
40	5200	23.48	23.31	24.35	23.05	911.24	29.60	30.00	Pass
48	5240	23.49	23.37	24.44	23.14	924.661	29.66	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	23.05	23.01	23.65	22.68	818.915	29.13	30.00	Pass
40	5200	23.44	23.21	24.25	22.98	894.893	29.52	30.00	Pass
48	5240	23.35	23.34	24.31	22.90	896.804	29.53	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	18.46	18.48	18.51	18.92	289.556	24.62	30.00	Pass
46	5230	23.36	23.04	23.99	23.48	891.597	29.50	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	17.48	17.02	17.41	17.76	221.111	23.45	30.00	Pass

802.11ax (HE20)

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	23.05	23.01	23.65	22.68	818.915	29.13	30.00	Pass
40	5200	23.44	23.21	24.25	22.98	894.893	29.52	30.00	Pass
48	5240	23.35	23.34	24.31	22.90	896.804	29.53	30.00	Pass

802.11ax (HE40)

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	18.46	18.48	18.51	18.92	289.556	24.62	30.00	Pass
46	5230	23.36	23.04	23.99	23.48	891.597	29.50	30.00	Pass

802.11ax (HE80)

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	17.48	17.02	17.41	17.76	221.111	23.45	30.00	Pass

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	23.05	23.01	23.65	22.68	818.915	29.13	29.78	Pass
40	5200	23.44	23.21	24.25	22.98	894.893	29.52	29.78	Pass
48	5240	23.35	23.34	24.31	22.90	896.804	29.53	29.78	Pass

Note: 1. Directional gain = 6.22dBi > 6dBi , so the power limit shall be reduced to $30-(6.22-6) = 29.78\text{dBm}$.

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	18.46	18.48	18.51	18.92	289.556	24.62	29.78	Pass
46	5230	23.36	23.04	23.99	23.48	891.597	29.50	29.78	Pass

Note: 1. Directional gain = 6.22dBi > 6dBi , so the power limit shall be reduced to $30-(6.22-6) = 29.78\text{dBm}$.

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	17.48	17.02	17.41	17.76	221.111	23.45	29.78	Pass

Note: 1. Directional gain = 6.22dBi > 6dBi , so the power limit shall be reduced to $30-(6.22-6) = 29.78\text{dBm}$.

802.11ax (HE20)

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	23.05	23.01	23.65	22.68	818.915	29.13	29.78	Pass
40	5200	23.44	23.21	24.25	22.98	894.893	29.52	29.78	Pass
48	5240	23.35	23.34	24.31	22.90	896.804	29.53	29.78	Pass

Note: 1. Directional gain = 6.22dBi > 6dBi , so the power limit shall be reduced to $30-(6.22-6) = 29.78\text{dBm}$.

802.11ax (HE40)

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	18.46	18.48	18.51	18.92	289.556	24.62	29.78	Pass
46	5230	23.36	23.04	23.99	23.48	891.597	29.50	29.78	Pass

Note: 1. Directional gain = 6.22dBi > 6dBi , so the power limit shall be reduced to $30-(6.22-6) = 29.78\text{dBm}$.

802.11ax (HE80)

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	17.48	17.02	17.41	17.76	221.111	23.45	29.78	Pass

Note: 1. Directional gain = 6.22dBi > 6dBi , so the power limit shall be reduced to $30-(6.22-6) = 29.78\text{dBm}$.

For U-NII-3:

Non-Beamforming 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				
149	5745	24.06	24.09	22.88	24.24	970.681	29.87	30.00	Pass
157	5785	23.65	23.59	23.75	23.36	914.206	29.61	30.00	Pass
165	5825	23.64	23.93	23.11	23.85	925.683	29.66	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				
149	5745	23.85	24.03	23.01	23.68	928.923	29.68	30.00	Pass
157	5785	23.86	24.01	23.31	23.81	949.713	29.78	30.00	Pass
165	5825	23.59	24.20	23.38	23.82	950.349	29.78	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				
151	5755	23.74	23.89	23.61	23.55	937.577	29.72	30.00	Pass
159	5795	23.88	24.20	23.95	23.76	993.367	29.97	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				
155	5775	22.59	22.60	22.50	22.08	702.786	28.47	30.00	Pass

802.11ax (HE20)

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				
149	5745	23.85	24.03	23.01	23.68	928.923	29.68	30.00	Pass
157	5785	23.86	24.01	23.31	23.81	949.713	29.78	30.00	Pass
165	5825	23.59	24.20	23.38	23.82	950.349	29.78	30.00	Pass

802.11ax (HE40)

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				
151	5755	23.74	23.89	23.61	23.55	937.577	29.72	30.00	Pass
159	5795	23.88	24.20	23.95	23.76	993.367	29.97	30.00	Pass

802.11ax (HE80)

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				
155	5775	22.59	22.60	22.50	22.08	702.786	28.47	30.00	Pass

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				
149	5745	23.35	23.53	22.51	23.18	827.904	29.18	29.48	Pass
157	5785	23.36	23.51	22.81	23.31	846.432	29.28	29.48	Pass
165	5825	23.09	23.70	22.88	23.32	846.999	29.28	29.48	Pass

Note: 1. Directional gain = 6.52dBi > 6dBi , so the power limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.

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				
151	5755	23.24	23.39	23.11	23.05	835.617	29.22	29.48	Pass
159	5795	23.38	23.70	23.45	23.26	885.339	29.47	29.48	Pass

Note: 1. Directional gain = 6.52dBi > 6dBi , so the power limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.

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				
155	5775	22.59	22.60	22.50	22.08	702.786	28.47	29.48	Pass

Note: 1. Directional gain = 6.52dBi > 6dBi , so the power limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.

802.11ax (HE20)

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				
149	5745	23.35	23.53	22.51	23.18	827.904	29.18	29.48	Pass
157	5785	23.36	23.51	22.81	23.31	846.432	29.28	29.48	Pass
165	5825	23.09	23.70	22.88	23.32	846.999	29.28	29.48	Pass

Note: 1. Directional gain = 6.52dBi > 6dBi , so the power limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.

802.11ax (HE40)

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				
151	5755	23.24	23.39	23.11	23.05	835.617	29.22	29.48	Pass
159	5795	23.38	23.70	23.45	23.26	885.339	29.47	29.48	Pass

Note: 1. Directional gain = 6.52dBi > 6dBi , so the power limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.

802.11ax (HE80)

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				
155	5775	22.59	22.60	22.50	22.08	702.786	28.47	29.48	Pass

Note: 1. Directional gain = 6.52dBi > 6dBi , so the power limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.

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)

For U-NII-1 band:

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/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/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	108 年 08 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	鄭樹營		

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	10.22	7.60	9.06	9.91	0.27	15.60	16.78	Pass
40	5200	8.52	9.34	8.03	9.70	0.27	15.24	16.78	Pass
48	5240	9.73	8.59	8.40	8.92	0.27	15.23	16.78	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. Directional gain = 6.22dBi > 6dBi, so the power density limit shall be reduced to $17 - (6.22 - 6) = 16.78\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

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	8.57	8.54	9.47	8.07	0.20	14.91	16.78	Pass
40	5200	8.67	7.36	9.54	7.44	0.20	14.57	16.78	Pass
48	5240	8.44	7.95	8.34	8.27	0.20	14.47	16.78	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. Directional gain = 6.22dBi > 6dBi, so the power density limit shall be reduced to $17 - (6.22 - 6) = 16.78\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

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	1.26	0.93	1.41	1.41	0.23	7.51	16.78	Pass
46	5230	8.44	1.34	5.91	6.69	0.23	12.51	16.78	Pass

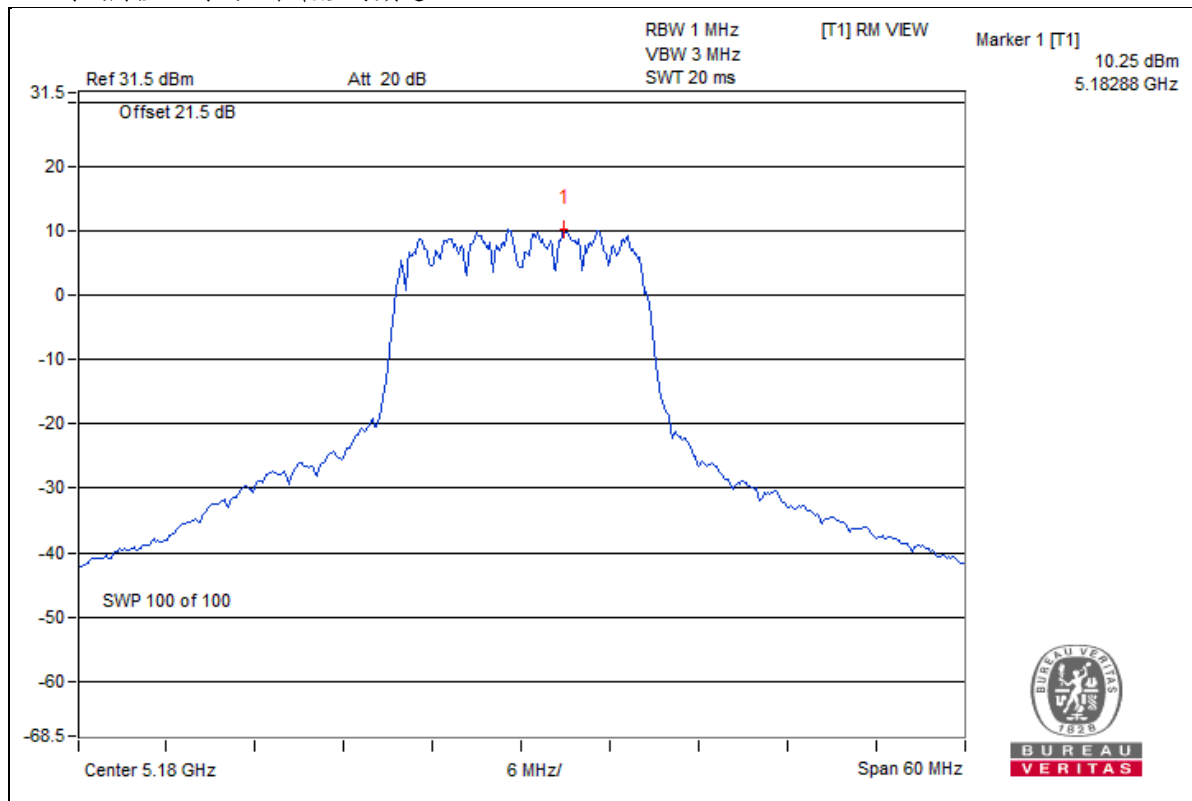
- Note:** 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.22dBi > 6dBi , so the power density limit shall be reduced to $17-(6.22-6) = 16.78\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

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	-2.00	-1.18	-1.56	-1.01	0.25	4.85	16.78	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. Directional gain = 6.22dBi > 6dBi , so the power density limit shall be reduced to $17-(6.22-6) = 16.78\text{dBm}$.
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。



For U-NII-3:

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
149	5745	1.48	1.09	1.45	2.09	0.27	6.0763	7.84	10.06	29.48	Pass
157	5785	1.55	2.31	3.21	2.33	0.27	7.3856	8.68	10.90	29.48	Pass
165	5825	1.01	1.36	1.74	1.50	0.27	5.8943	7.70	9.92	29.48	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 6.52dBi > 6dBi , so the power density limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
149	5745	0.84	0.02	1.13	0.45	0.20	4.847	6.85	9.07	29.48	Pass
157	5785	1.06	0.93	1.82	1.82	0.20	5.8238	7.65	9.87	29.48	Pass
165	5825	0.05	-0.10	0.51	0.57	0.20	4.4584	6.49	8.71	29.48	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 6.52dBi > 6dBi , so the power density limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
151	5755	-1.68	-1.94	-1.11	-1.78	0.18	2.8727	4.58	6.80	29.48	Pass
159	5795	-1.98	-1.01	-1.04	-1.26	0.18	3.0857	4.89	7.11	29.48	Pass

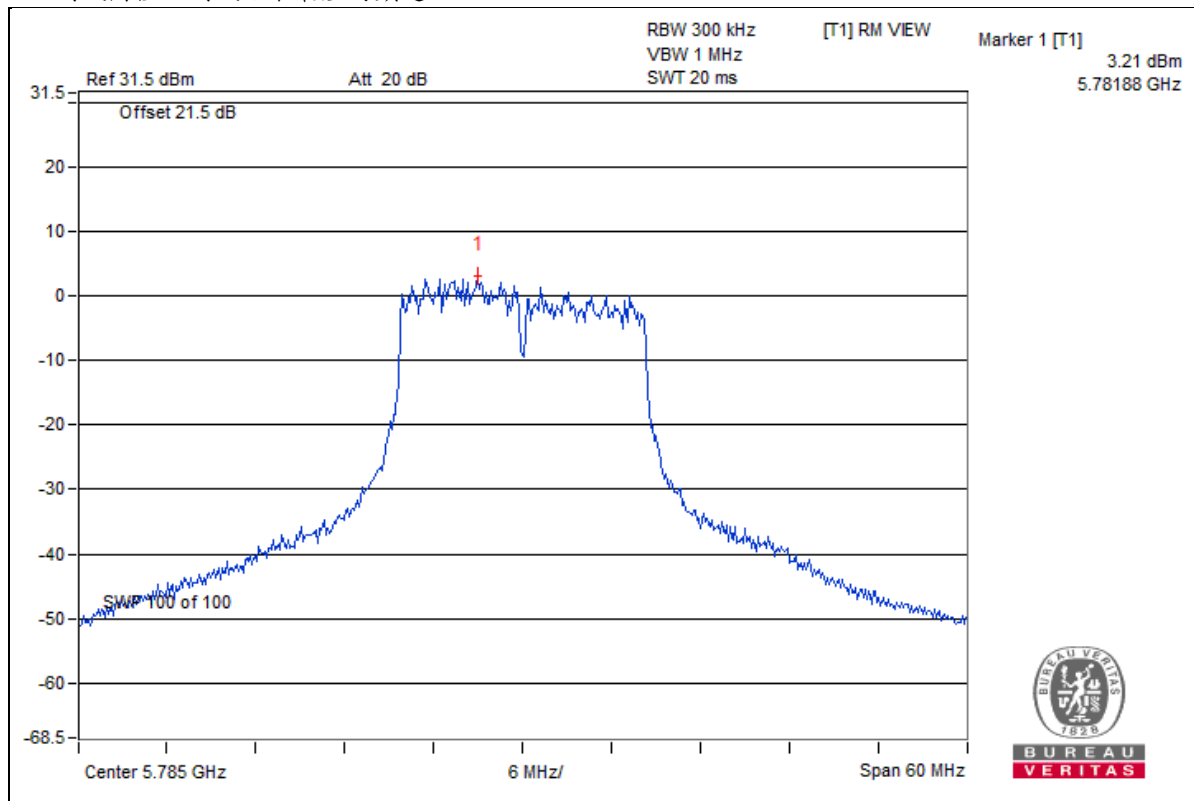
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 6.52dBi > 6dBi , so the power density limit shall be reduced to $30-(6.52-6) = 29.48\text{dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD With Duty Factor		Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	Chain 2	Chain 3		mW/300 kHz	dBm/300kHz			
155	5775	-5.27	-5.62	-4.77	-6.20	0.20	1.1978	0.78	3.00	29.48	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 6.52dBi > 6dBi , so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48\text{dBm}$.
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。



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

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

13.3 量測儀器

同 6.3 節。

13.4 測試配置

同 6.4 節。

13.5 量測結果

操作模式	發射	測試日期	108 年 08 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	陳高逸		

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	15.99	16.35	16.35	16.36	0.5	Pass
157	5785	16.35	15.98	15.76	15.98	0.5	Pass
165	5825	15.96	15.93	15.73	16.37	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	18.89	18.92	19.01	18.92	0.5	Pass
157	5785	18.35	18.50	18.81	18.79	0.5	Pass
165	5825	18.92	19.02	18.93	18.93	0.5	Pass

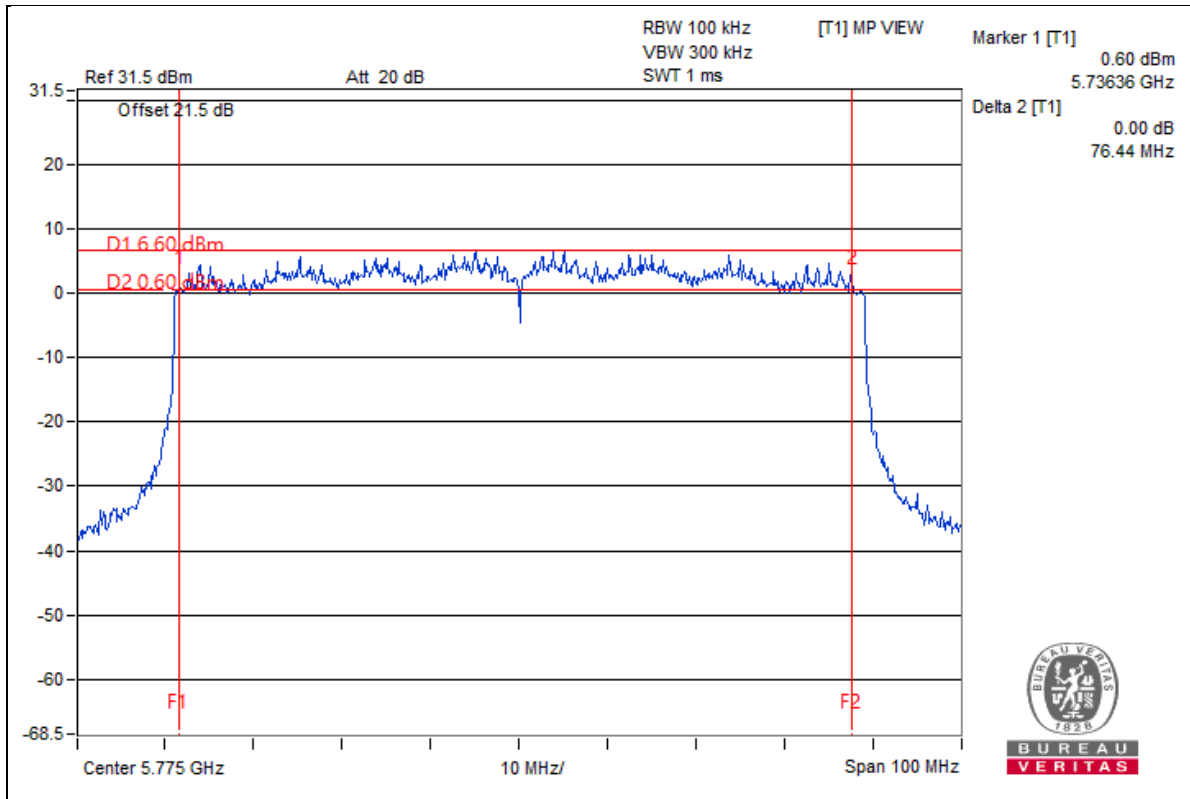
802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	37.91	38.11	37.87	37.75	0.5	Pass
159	5795	37.44	37.97	36.67	37.70	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	76.44	77.51	76.75	77.65	0.5	Pass

**此測試圖僅放測試結果最差的頻道。



13.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

14 電波暴露量之評估

14.1 適用標準

請見本報告 3.1 節第 12 項的規定。

14.2 評估方法

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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

14.3 評估結果

Operation Mode	Max. Power (dBm)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz	2437	992.435	6.01	33	0.28938	1
WLAN U-NII-1	5240	924.661	6.22	33	0.28297	1
WLAN U-NII-3	5795	993.367	6.52	33	0.32574	1

NOTE:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. 2.4GHz: The directional gain = 6.01dBi

5GHz:

U-NII-1: The directional gain = 6.22dBi

U-NII-3: The directional gain = 6.52dBi

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = $0.28938 / 1 + 0.32574 / 1 = 0.61512$

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

15 Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 Band)

802.11a

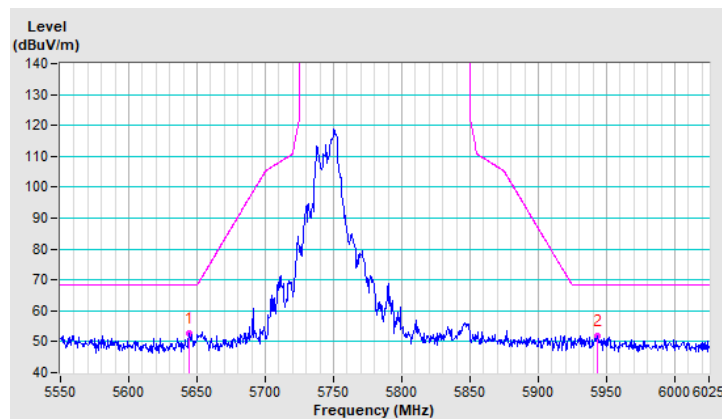
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5644.50	52.7 PK	68.2	-15.5	2.35 H	349	49.1	3.6
2	#5943.34	51.9 PK	68.2	-16.3	2.35 H	349	47.5	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



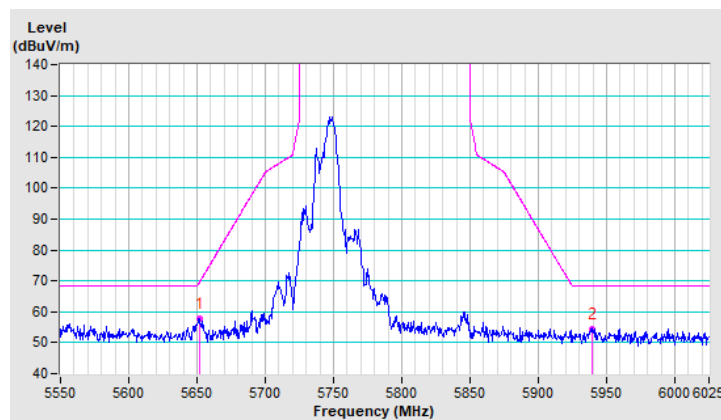
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5651.67	57.9 PK	69.4	-11.5	2.58 V	16	54.3	3.6
2	#5939.44	54.6 PK	68.2	-13.6	2.58 V	16	50.3	4.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



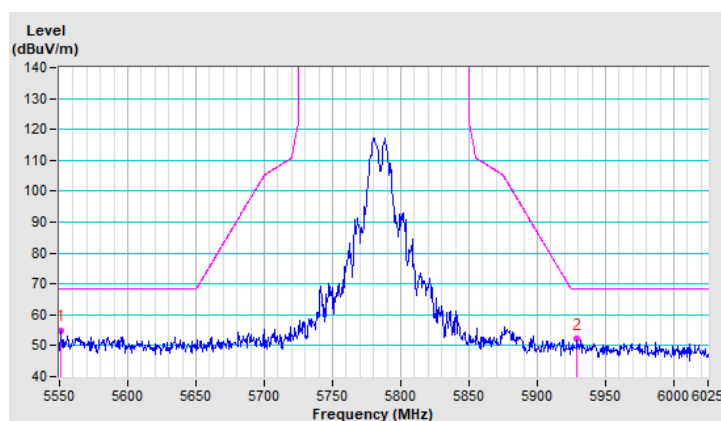
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5551.28	54.8 PK	68.2	-13.4	1.50 H	140	51.1	3.7
2	#5929.26	52.1 PK	68.2	-16.1	1.50 H	140	47.9	4.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



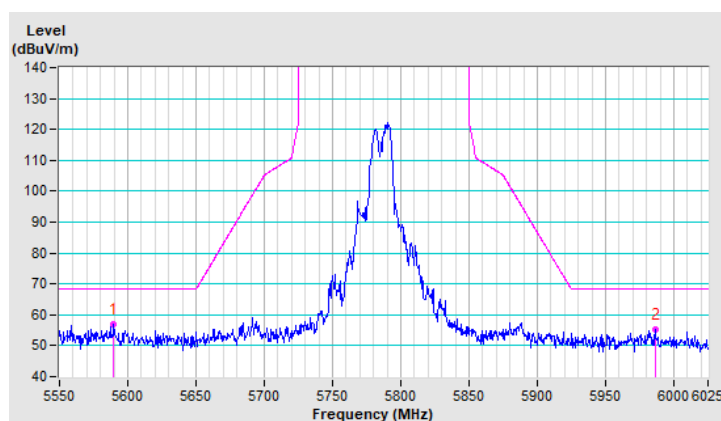
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5589.61	57.1 PK	68.2	-11.1	2.57 V	349	53.4	3.7
2	#5986.18	55.2 PK	68.2	-13.0	2.57 V	349	50.8	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



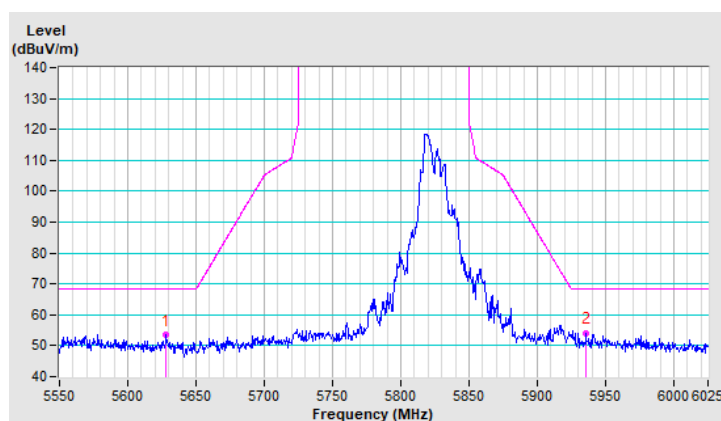
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165 : 5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.77	53.4 PK	68.2	-14.8	2.43 H	198	49.8	3.6
2	#5935.39	53.9 PK	68.2	-14.3	2.43 H	198	49.6	4.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



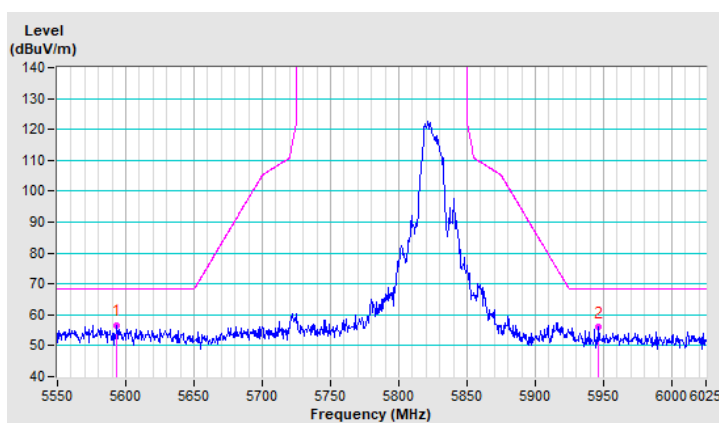
操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5593.50	56.6 PK	68.2	-11.6	2.43 V	355	52.9	3.7
2	#5946.46	55.9 PK	68.2	-12.3	2.43 V	355	51.5	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



802.11ax (HE20)

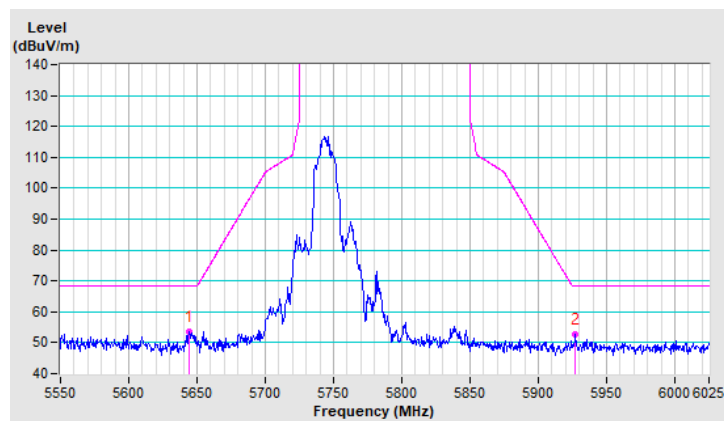
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5644.32	53.7 PK	68.2	-14.5	1.58 H	171	50.1	3.6
2	#5927.22	52.7 PK	68.2	-15.5	1.58 H	171	48.5	4.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



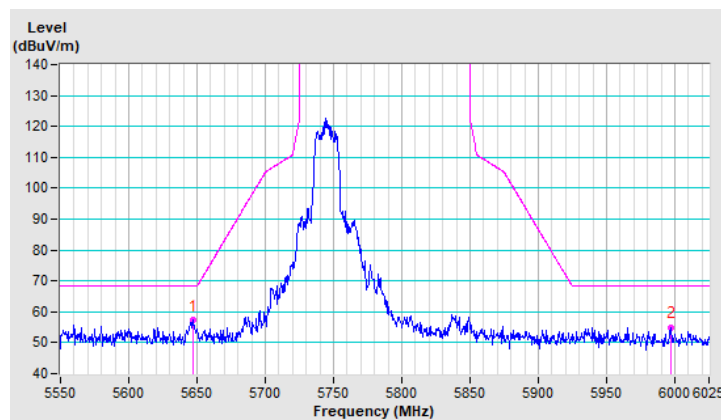
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 149 : 5745 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5647.17	57.2 PK	68.2	-11.0	2.45 V	18	53.6	3.6
2	#5996.93	54.9 PK	68.2	-13.3	2.45 V	18	50.5	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



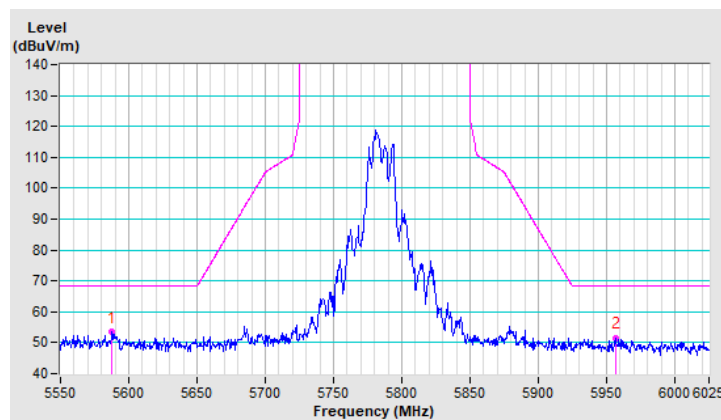
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5587.86	53.4 PK	68.2	-14.8	1.48 H	140	49.7	3.7
2	#5956.31	51.6 PK	68.2	-16.6	1.48 H	140	47.2	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



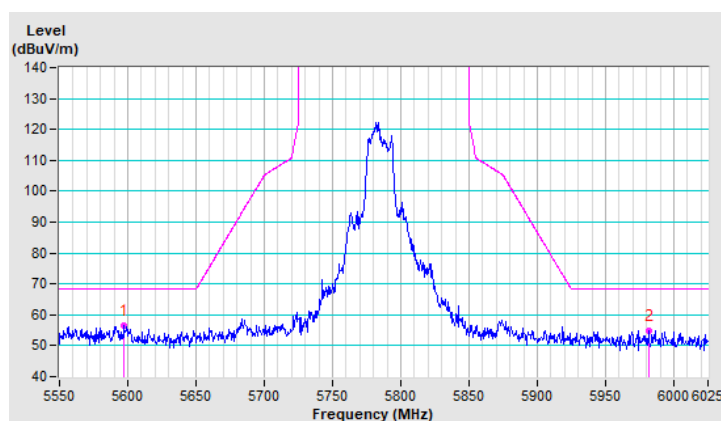
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 157 : 5785 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5597.38	56.4 PK	68.2	-11.8	2.46 V	5	52.7	3.7
2	#5981.47	54.9 PK	68.2	-13.3	2.46 V	5	50.5	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



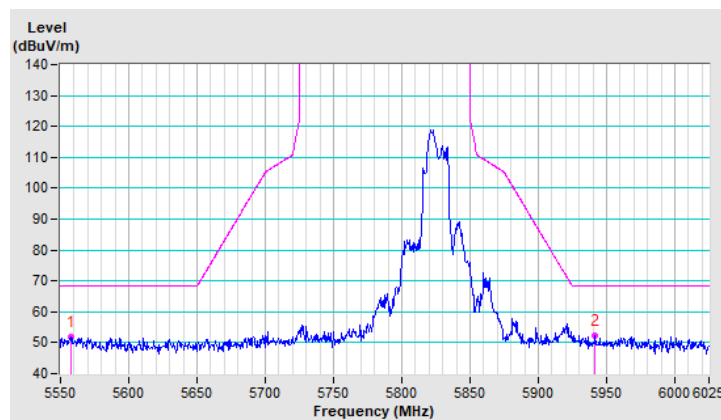
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5557.37	51.9 PK	68.2	-16.3	2.48 H	198	48.2	3.7
2	#5941.70	52.2 PK	68.2	-16.0	2.48 H	198	47.9	4.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



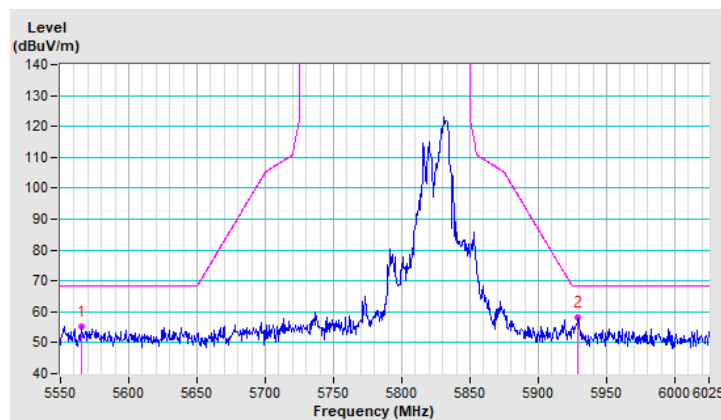
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 165：5825 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5565.71	55.4 PK	68.2	-12.8	2.47 V	14	51.7	3.7
2	#5928.68	58.2 PK	68.2	-10.0	2.47 V	14	54.0	4.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



802.11ax (HE40)

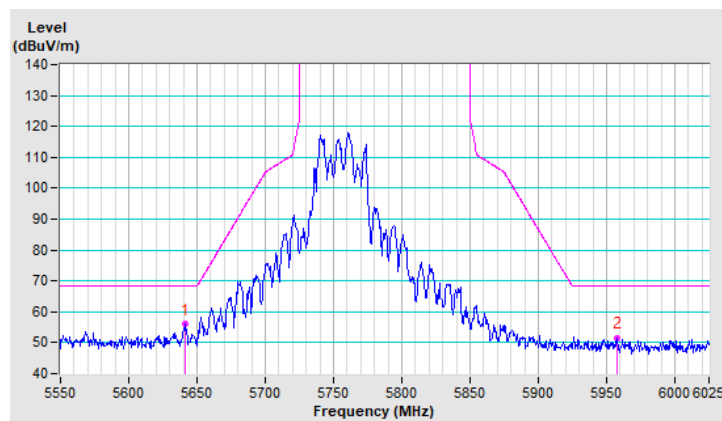
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151 : 5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5640.97	55.9 PK	68.2	-12.3	1.49 H	144	52.3	3.6
2	#5957.66	51.5 PK	68.2	-16.7	1.49 H	144	47.1	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



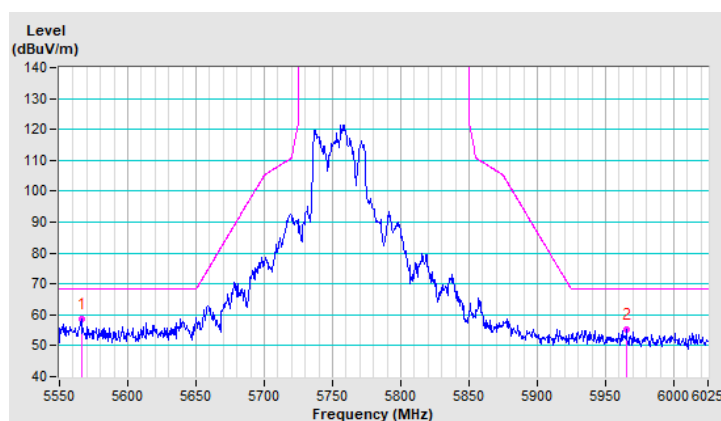
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 151 : 5755 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5565.90	58.7 PK	68.2	-9.5	2.38 V	355	55.0	3.7
2	#5965.41	55.3 PK	68.2	-12.9	2.38 V	355	50.9	4.4

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



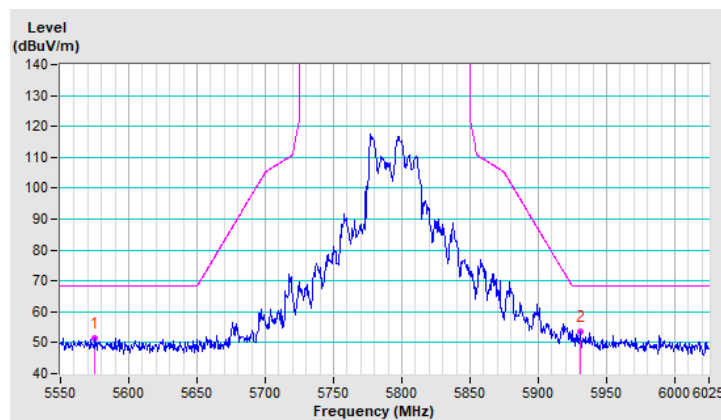
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159 : 5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5575.34	51.4 PK	68.2	-16.8	2.92 H	143	47.7	3.7
2	#5931.07	53.7 PK	68.2	-14.5	2.92 H	143	49.4	4.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



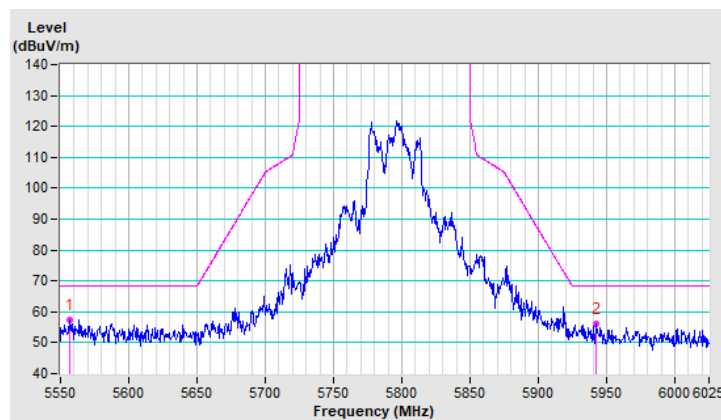
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 159：5795 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5556.47	57.5 PK	68.2	-10.7	2.35 V	356	53.8	3.7
2	#5942.17	56.1 PK	68.2	-12.1	2.35 V	356	51.8	4.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



802.11ax (HE80)

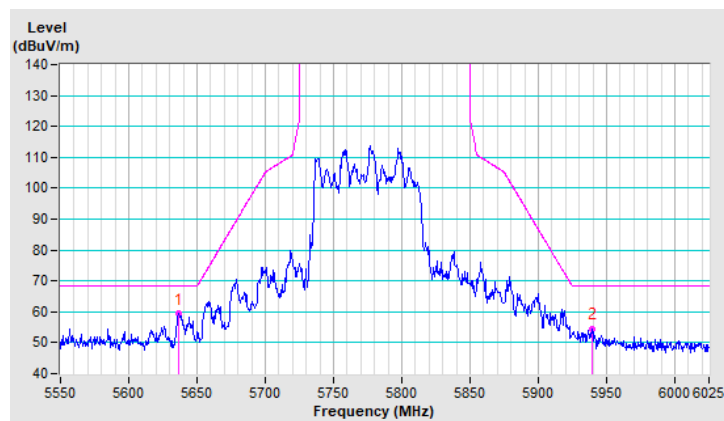
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155：5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	23°C	量測場地濕度：	65%RH
測試日期：	108 年 8 月 22 日	測試者：	何欣儒

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	#5636.75	59.3 PK	68.2	-8.9	3.33 H	140	55.7	3.6
2	#5939.89	54.3 PK	68.2	-13.9	3.33 H	140	50.0	4.3

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



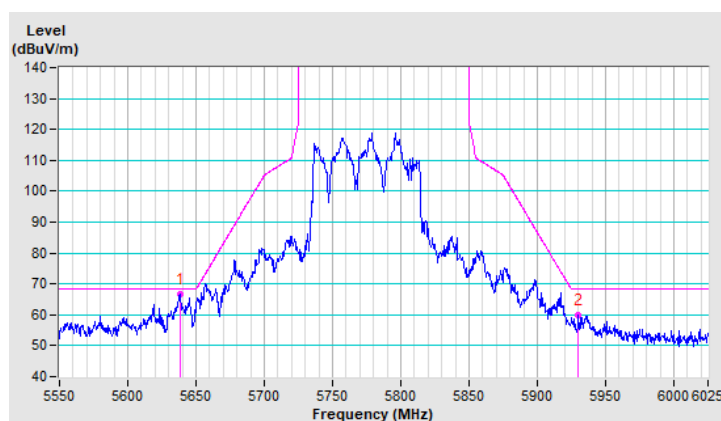
操作模式：	發射	調變技術：	OFDMA
基本波頻率：	CH 155 : 5775 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz
量測場地溫度：	22°C	量測場地濕度：	68%RH
測試日期：	108 年 7 月 27 日	測試者：	何欣儒

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	#5638.17	66.8 PK	68.2	-1.4	2.48 V	357	63.2	3.6
2	#5929.76	60.1 PK	68.2	-8.1	2.48 V	357	55.9	4.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " # ": The radiated frequency is out of the restricted band.



16 檢測實驗室基本資料

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

如您有任何問題或建議，請與下列實驗室聯絡：

林口 EMC / RF 實驗室：

Tel: 886-2-26052180

Fax: 886-2-26051924

新竹 EMC / RF 及通訊實驗室：

Tel: 886-3-6668565

Fax: 886-3-6668323

華亞 EMC / RF / Safety 實驗室：

Tel: 886-3-3183232

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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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