

低功率射頻電機技術規範測試報告

報告編號	RT171114C06
申請者	聯洲國際有限公司
產品名稱	300Mbps 無線 N 路由器
型號	TL-WR840N
製造廠商	普聯技術有限公司 / 中國
商標或廠牌	tp-link
該產品樣品試驗 依據之試驗標準	國家通訊傳播委員會低功率射頻電機技術規範 105 年 8 月 23 日修訂
試驗結果	合格

香港商立德國際商品試驗有限公司桃園分公司 林口實驗室
日期 106 年 12 月 06 日

報告簽署人簽章:



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報告發行紀錄

Issue No.	Description	Date Issued
RT171114C06	Original release	106 年 12 月 06 日

證 明 書

發行日期：106 年 12 月 06 日

產 品 名 稱：300Mbps 無線 N 路由器
商 標：tp-link
型 號：TL-WR840N
申 請 者：聯洲國際有限公司
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:TL-WR840N)，收件日期 106 年 11 月 14 日，於 106 年 11 月 16 日至 106 年 11 月 26 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：



簡 佳 琪 / 專員

， 日 期：

106 年 12 月 06 日

審 核 者：



劉 克 殷 / 資深經理

， 日 期：

106 年 12 月 06 日

香港商立德國際商品試驗有限公司桃園分公司

實驗室地址：新北市林口區嘉寶里 14 鄰 47-2 號

此份報告不得摘錄複製，除全份
複製外，需經實驗室書面同意。



1 低功率射頻電機量測記錄表

申請廠商： 聯洲國際有限公司

製造廠商： 普聯技術有限公司 / 中國

申請廠商地址： 新北市板橋區中山路一段 156 號 13 樓

廠牌： tp-link

產品名稱： 300Mbps 無線 N 路由器

型號： TL-WR840N

量測單位名稱： 香港商立德國際商品試驗有限公司桃園分公司

林口實驗室華亞檢測部

量測單位地址： 桃園市龜山區文化里華亞二路 19 號

量測單位認可編號： TAF 2021 (9kHz~40GHz)

量測規範： 低功率射頻電機技術規範 LP0002

ANSI C63.10-2013

KDB 558074

KDB 662911

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

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

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

2 一般敘述

2.1 待測設備

產品名稱：	300Mbps 無線N路由器
型號：	TL-WR840N
額定電源：	9Vdc (Adapter)
調變技術：	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
傳輸速率：	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps
載波頻率：	2412~2462MHz
頻道數：	802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7
發射功率：	802.11b: 23.34dBm 802.11g: 24.32dBm 802.11n (HT20): 24.16dBm 802.11n (HT40): 19.07dBm
天線種類：	見註2
電源線類別：	N/A
信號線類別：	N/A
配件：	Adapter

註 1: 此待測物之技術的種類為2Tx / 2Rx之組合。

Modulation Mode	TX Function
802.11b	2TX
802.11g	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX

註 2: 此待測設備搭配測試的天線，其資料如下：

Type	Brand	Model	Gain(dBi)	Connector
Dipole antenna	TP-LINK	3101501614	4.0	Weld

註 3: 此待測設備搭配使用之電源供應器規格如下：

Brand:	TP-LINK TECHNOLOGIES CO., LTD.
Model:	T090060-2B1
Input:	100-240Vac, 50/60Hz, 0.3A
Output:	9Vdc, 0.6A
Power Line:	1.5m power cable without core

註 4: 此報告中，場強輻射量經過評估後以下列測試模式進行最終量測。

載波頻率	量測項目	發射	接收
場強輻射量測	1GHz 以上量測	802.11b: Ch 1, 6, 11 802.11g: Ch 1, 6, 11 802.11n (HT20): Ch 1, 6, 11 802.11n (HT40): Ch 3, 6, 9	802.11g: Ch 6
	其它不必要之訊號	802.11g: Ch 6	
電源線傳導干擾		802.11g: Ch 6	

註 5: 此報告中傳輸模式，場強輻射量測其它不必要之訊號及電源線傳導干擾量測之外的測試項目，以DSSS調變技術和OFDM調變技術分別進行測試並記錄最終量測結果於報告中。

註 6: 此待測設備經評估三個正交軸方位評估測試擺設方式：平躺、側放、垂直，其中以平躺擺放擁有最大干擾值，故以此擺放方式進行最終量測。

註 7: 此待測設備測試時天線為黑色，與出貨僅顏色不同，其餘皆相同，出貨天線為灰色。

註 8: Duty cycle of test signal.

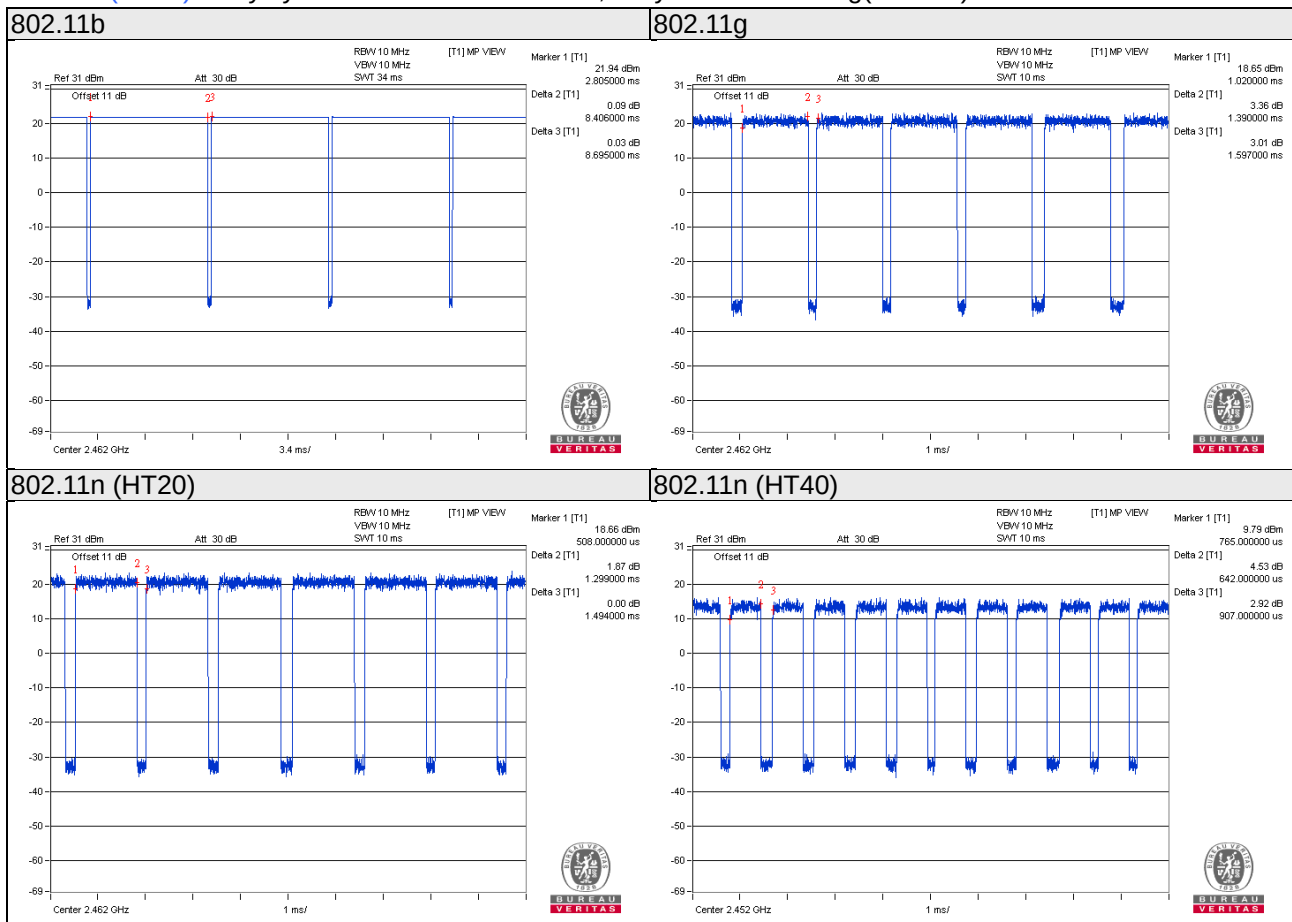
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11b: Duty cycle = $8.406/8.695 = 0.967$, Duty factor = $10 * \log(1/0.967) = 0.15$

802.11g: Duty cycle = $1.390/1.597 = 0.870$, Duty factor = $10 * \log(1/0.870) = 0.60$

802.11n (HT20): Duty cycle = $1.299/1.494 = 0.869$, Duty factor = $10 * \log(1/0.869) = 0.61$

802.11n (HT40): Duty cycle = $0.642/0.907 = 0.708$, Duty factor = $10 * \log(1/0.708) = 1.50$



此裝置各頻道的中心頻率如下：

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

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

802.11n (HT40):

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

詳細之規格請參考使用說明書，產品的照片請參照 BVCPS 報告編號:171114C06。

2.2 輔助測試之週邊設備描述

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

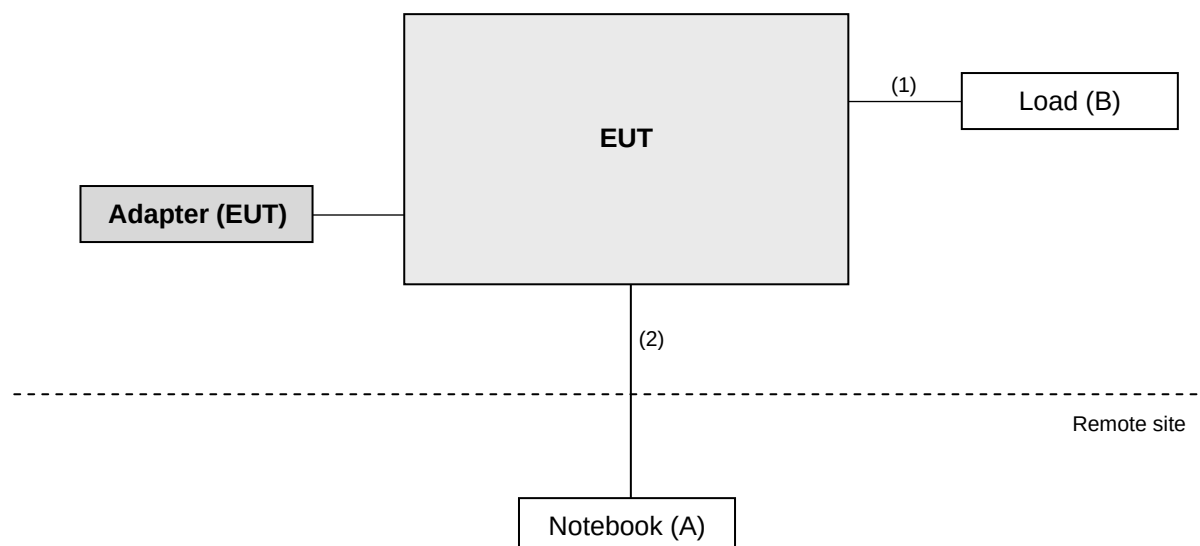
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5420	BPQ8MQ1	FCC DoC Approved	-
B.	Load	NA	NA	NA	NA	-

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	4	1.8	N	0	-
2.	RJ45 cable	1	10	N	0	-

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。

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

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

(3) 天線之規定

天線規格不受第 2.2 節規定之限制。

(4) 天線增益之要求

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

(I) 操作於 2400 MHz~2483.5 MHz 頻段：

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

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

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

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

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

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

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

除(A)及(B)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率限制值。

(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。

(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。

(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。

(8) 電波暴露量之評估

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

限制值如下：

(1) 職業性/可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

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

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

3.2 限制使用之頻帶

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

頻率(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090~0.110	240.00~285.00	3332.0~3339.0
0.490~0.510	322.00~335.40	3345.8~3358.0
2.172~2.198	399.90~410.00	3500.0~4400.0
3.013~3.033	485.00~510.00	4500.0~5250.0
4.115~4.198	608.00~614.00	5350.0~5460.0
5.670~5.690	703.00~748.00	7250.0~7750.0
6.200~6.300	758.00~803.00	8025.0~8500.0
8.230~8.400	825.00~915.00	9000.0~9200.0
12.265~12.600	930.00~1240.0	9300.0~9500.0
13.340~13.430	1300.0~1427.0	10600~12700
14.965~15.020	1435.0~1626.5	13250~13400
16.700~16.755	1660.0~1770.0	14470~14500
19.965~20.020	1805.0~1865.0	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	2015.0~2025.0	23600~24000
108.00~138.00	2125.0~2165.0	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	

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。

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

4.3 量測儀器

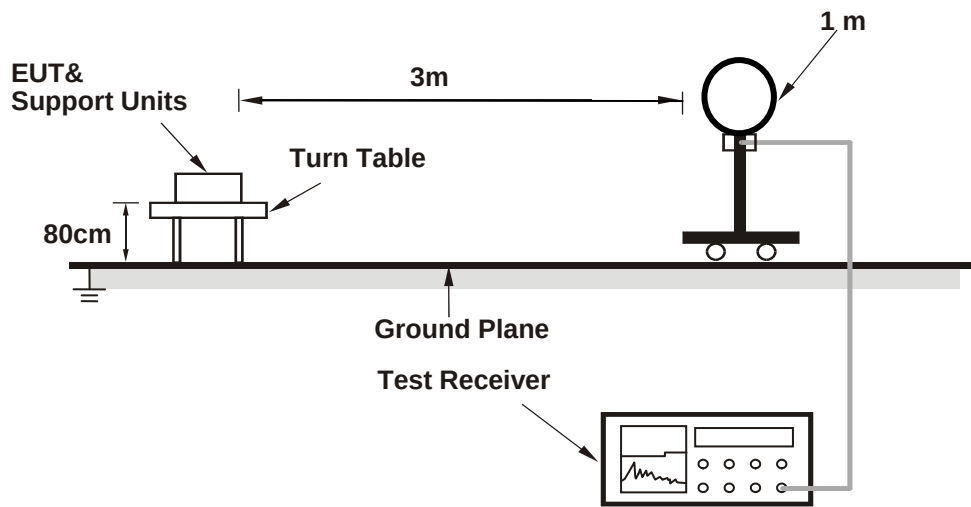
Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Mar. 27, 2017	Mar. 26, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	May 11, 2017	May 10, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Aug. 08, 2017	Aug. 07, 2018
Preamplifier Agilent (Above 1GHz)	8449B	3008A01638	Feb. 22, 2017	Feb. 21, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-02 (248780+MY13377)	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Aug. 08, 2017	Aug. 07, 2018
RF signal cable Woken	8D-FB	Cable-CH9-01	Aug. 01, 2017	Jul. 31, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
4. The IC Site Registration No. is IC 7450F-9.
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.

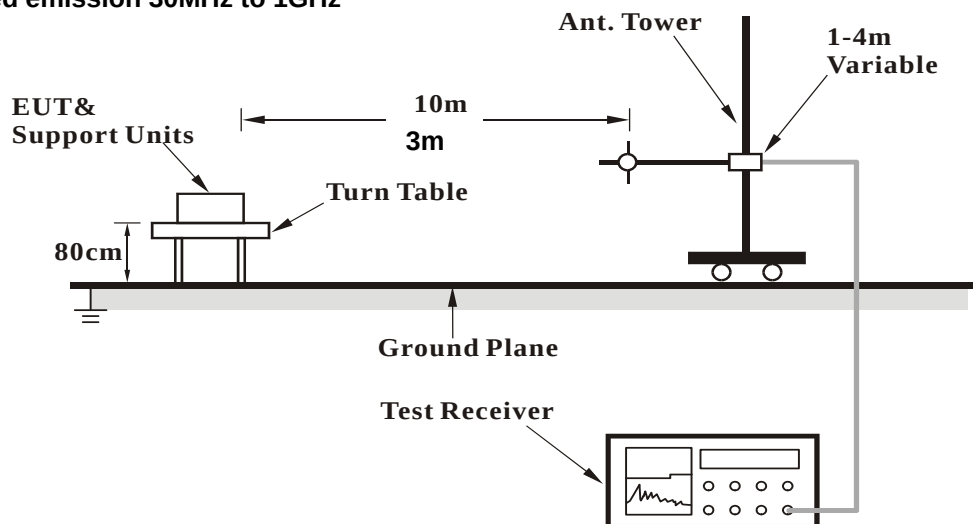
Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

4.4 測試配置

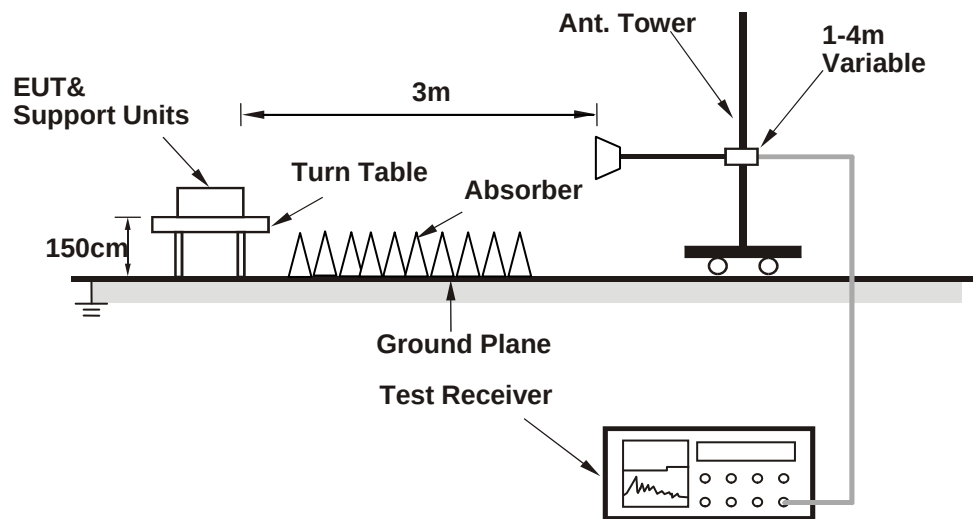
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



4.5 場強度之計算

場強之計算公式如下：

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

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

量測結果請見下頁。

4.6 量測結果

4.6.1 發射諧波

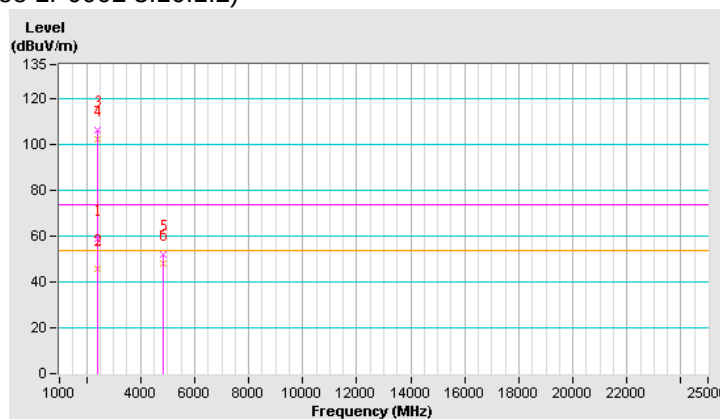
802.11b

操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1 : 2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	58.8 PK	74.0	-15.2	3.51 H	39	25.40	33.40
2	2390.00	46.0 AV	54.0	-8.0	3.51 H	39	12.60	33.40
3	*2412.00	106.3 PK			3.42 H	28	72.80	33.50
4	*2412.00	102.4 AV			3.42 H	28	68.90	33.50
5	4824.00	52.2 PK	74.0	-21.8	3.80 H	255	48.50	3.70
6	4824.00	48.2 AV	54.0	-5.8	3.80 H	255	44.50	3.70
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

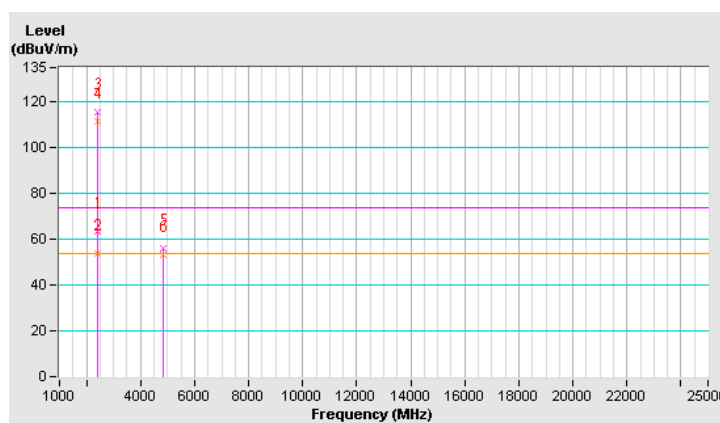


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	63.5 PK	74.0	-10.5	1.29 V	120	30.10	33.40
2	2390.00	53.7 AV	54.0	-0.3	1.29 V	120	20.30	33.40
3	*2412.00	115.6 PK			1.31 V	92	82.10	33.50
4	*2412.00	111.8 AV			1.31 V	92	78.30	33.50
5	4824.00	55.9 PK	74.0	-18.1	3.38 V	310	52.20	3.70
6	4824.00	53.3 AV	54.0	-0.7	3.38 V	310	49.60	3.70
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

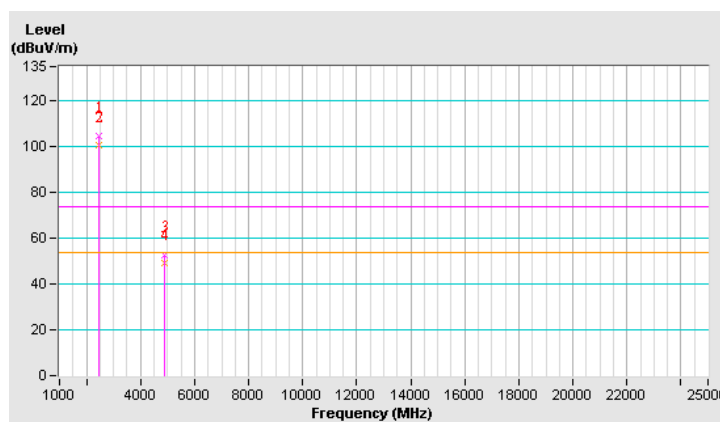


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.7 PK			3.38 H	35	71.10	33.60
2	*2437.00	100.8 AV			3.38 H	35	67.20	33.60
3	4874.00	52.8 PK	74.0	-21.2	3.29 H	308	48.90	3.90
4	4874.00	49.2 AV	54.0	-4.8	3.29 H	308	45.30	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

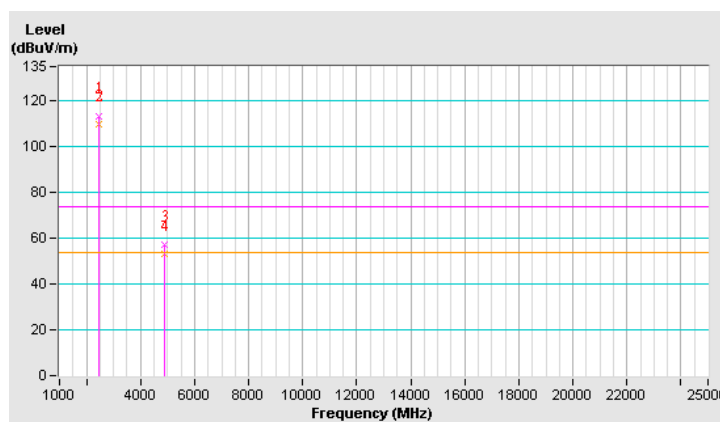


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.5 PK			1.00 V	93	79.90	33.60
2	*2437.00	110.0 AV			1.00 V	93	76.40	33.60
3	4874.00	57.0 PK	74.0	-17.0	3.43 V	307	53.10	3.90
4	4874.00	53.1 AV	54.0	-0.9	3.43 V	307	49.20	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

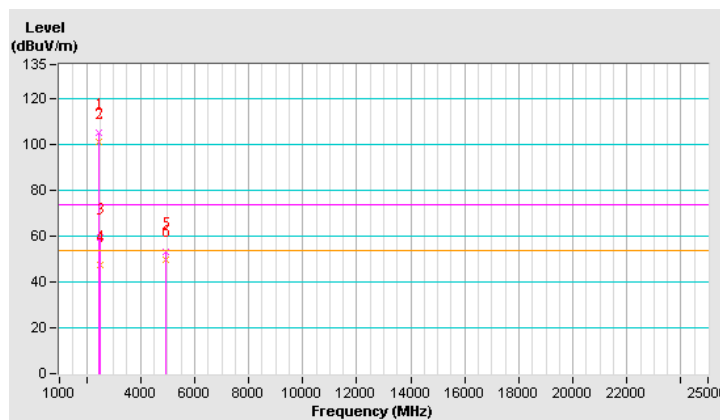


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	105.0 PK			3.31 H	29	71.20	33.80
2	*2462.00	101.1 AV			3.31 H	29	67.30	33.80
3	2483.50	59.5 PK	74.0	-14.5	3.43 H	41	25.60	33.90
4	2483.50	47.3 AV	54.0	-6.7	3.43 H	41	13.40	33.90
5	4924.00	53.4 PK	74.0	-20.6	3.37 H	306	49.40	4.00
6	4924.00	49.8 AV	54.0	-4.2	3.37 H	306	45.80	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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

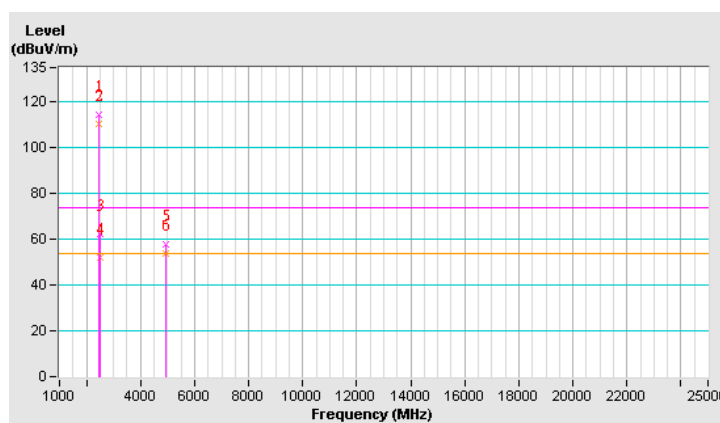


操作模式：	發射	調變技術：	DSSS
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	114.3 PK			1.00 V	101	80.50	33.80
2	*2462.00	110.4 AV			1.00 V	101	76.60	33.80
3	2483.50	62.5 PK	74.0	-11.5	1.26 V	138	28.60	33.90
4	2483.50	52.2 AV	54.0	-1.8	1.26 V	138	18.30	33.90
5	4924.00	57.5 PK	74.0	-16.5	3.51 V	304	53.50	4.00
6	4924.00	53.9 AV	54.0	-0.1	3.51 V	304	49.90	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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



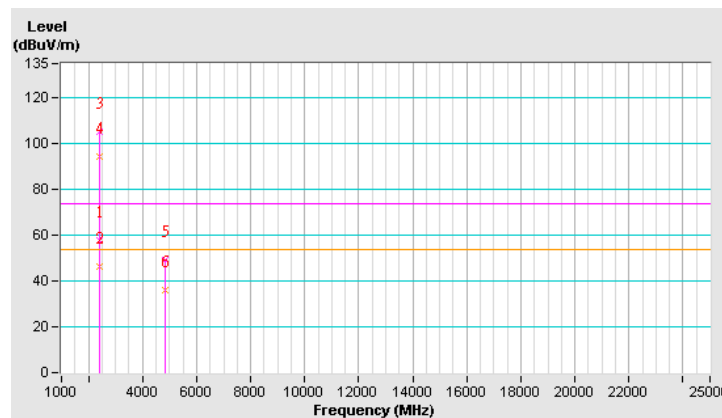
802.11g

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=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	57.7 PK	74.0	-16.3	2.81 H	45	24.30	33.40
2	2390.00	46.2 AV	54.0	-7.8	2.81 H	45	12.80	33.40
3	*2412.00	105.4 PK			2.74 H	31	71.90	33.50
4	*2412.00	94.6 AV			2.74 H	31	61.10	33.50
5	4824.00	49.3 PK	74.0	-24.7	2.81 H	275	45.60	3.70
6	4824.00	36.2 AV	54.0	-17.8	2.81 H	275	32.50	3.70
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

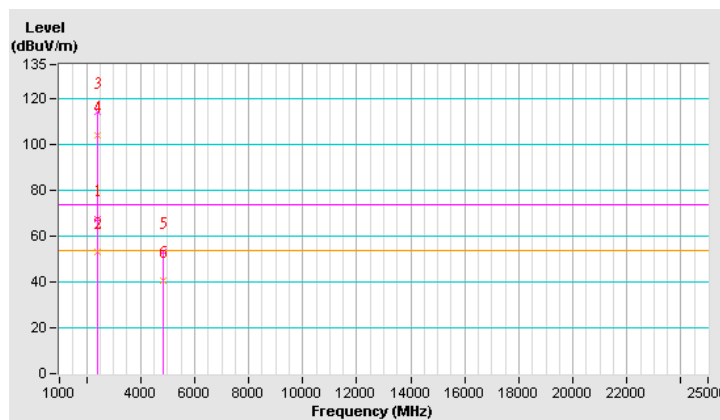


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.6 PK	74.0	-6.4	1.00 V	156	34.20	33.40
2	2390.00	53.2 AV	54.0	-0.8	1.00 V	156	19.80	33.40
3	*2412.00	114.5 PK			1.00 V	70	81.00	33.50
4	*2412.00	104.3 AV			1.00 V	70	70.80	33.50
5	4824.00	53.3 PK	74.0	-20.7	2.83 V	296	49.60	3.70
6	4824.00	40.4 AV	54.0	-13.6	2.83 V	296	36.70	3.70
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

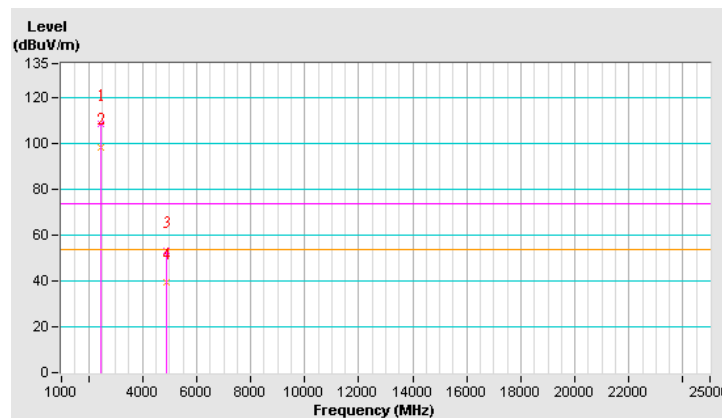


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.9 PK			2.69 H	36	75.30	33.60
2	*2437.00	98.4 AV			2.69 H	36	64.80	33.60
3	4874.00	53.1 PK	74.0	-20.9	3.11 H	298	49.20	3.90
4	4874.00	39.2 AV	54.0	-14.8	3.11 H	298	35.30	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

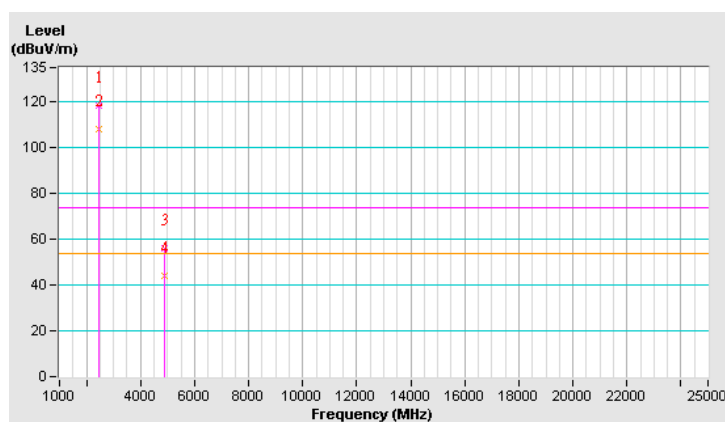


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.6 PK			1.00 V	130	85.00	33.60
2	*2437.00	107.9 AV			1.00 V	130	74.30	33.60
3	4874.00	56.0 PK	74.0	-18.0	3.29 V	308	52.10	3.90
4	4874.00	43.8 AV	54.0	-10.2	3.29 V	308	39.90	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

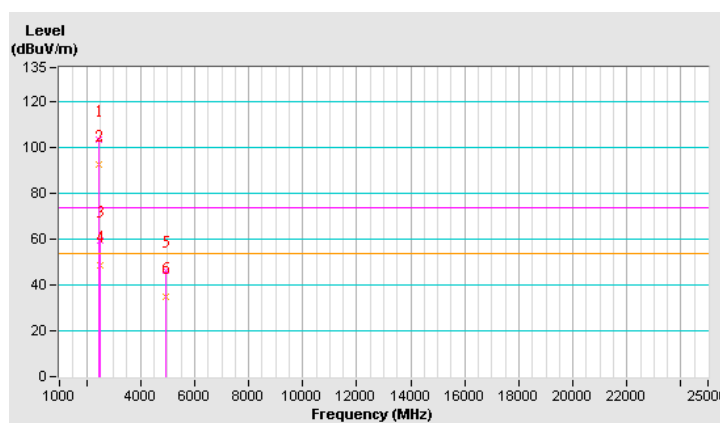


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	103.3 PK			2.83 H	41	69.50	33.80
2	*2462.00	92.9 AV			2.83 H	41	59.10	33.80
3	2483.50	59.7 PK	74.0	-14.3	2.76 H	36	25.80	33.90
4	2483.50	48.5 AV	54.0	-5.5	2.76 H	36	14.60	33.90
5	4924.00	46.3 PK	74.0	-27.7	3.36 H	271	42.30	4.00
6	4924.00	34.8 AV	54.0	-19.2	3.36 H	271	30.80	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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

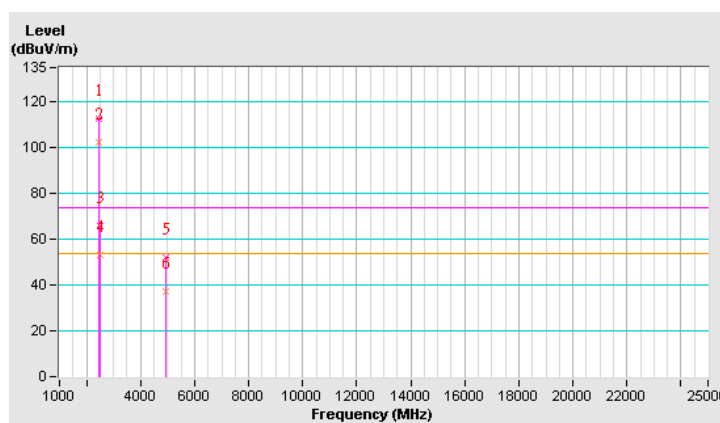


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.6 PK			1.00 V	268	78.80	33.80
2	*2462.00	102.3 AV			1.00 V	268	68.50	33.80
3	2483.50	65.8 PK	74.0	-8.2	1.00 V	249	31.90	33.90
4	2483.50	53.0 AV	54.0	-1.0	1.00 V	249	19.10	33.90
5	4924.00	51.8 PK	74.0	-22.2	3.47 V	282	47.80	4.00
6	4924.00	37.4 AV	54.0	-16.6	3.47 V	282	33.40	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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



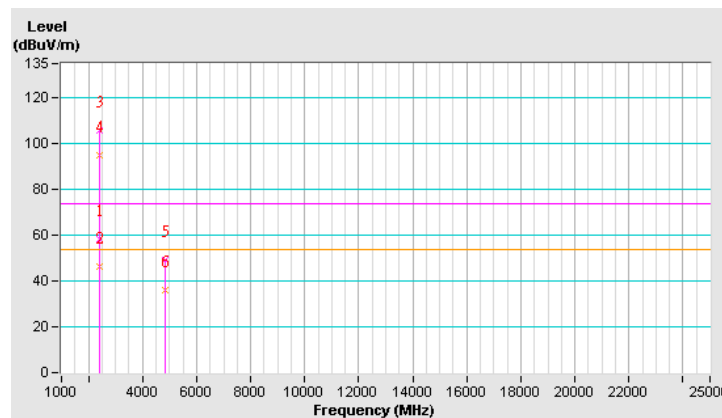
802.11n (HT20)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	58.2 PK	74.0	-15.8	2.74 H	52	24.80	33.40
2	2390.00	46.5 AV	54.0	-7.5	2.74 H	52	13.10	33.40
3	*2412.00	105.8 PK			2.78 H	35	72.30	33.50
4	*2412.00	94.8 AV			2.78 H	35	61.30	33.50
5	4824.00	49.3 PK	74.0	-24.7	2.93 H	281	45.60	3.70
6	4824.00	36.2 AV	54.0	-17.8	2.93 H	281	32.50	3.70
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

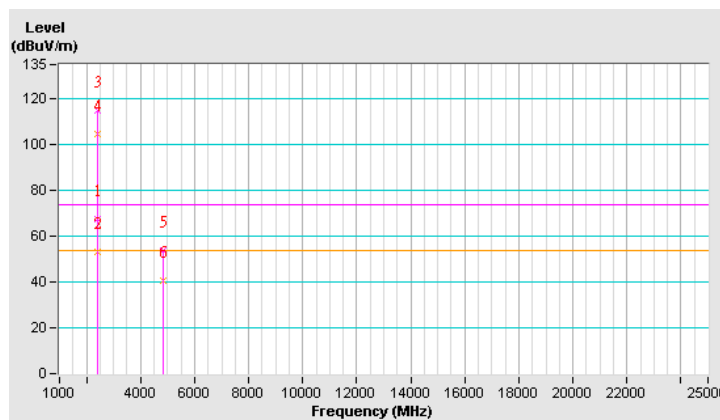


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 1：2412 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.5 PK	74.0	-6.5	1.02 V	149	34.10	33.40
2	2390.00	53.0 AV	54.0	-1.0	1.02 V	149	19.60	33.40
3	*2412.00	115.0 PK			1.00 V	78	81.50	33.50
4	*2412.00	104.6 AV			1.00 V	78	71.10	33.50
5	4824.00	53.8 PK	74.0	-20.2	2.85 V	291	50.10	3.70
6	4824.00	40.5 AV	54.0	-13.5	2.85 V	291	36.80	3.70
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

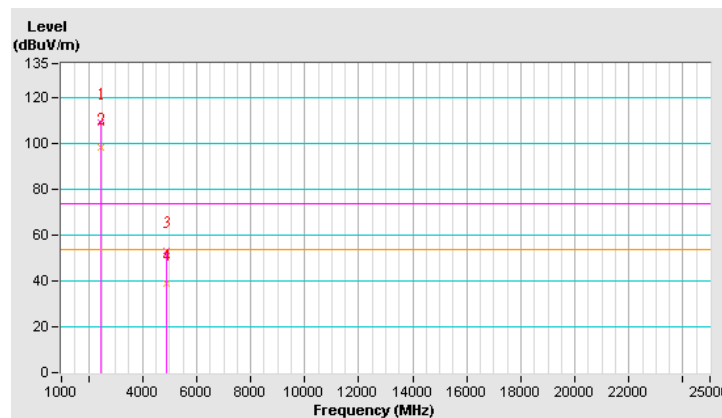


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.2 PK			2.71 H	43	75.60	33.60
2	*2437.00	98.2 AV			2.71 H	43	64.60	33.60
3	4874.00	53.4 PK	74.0	-20.6	3.08 H	306	49.50	3.90
4	4874.00	38.9 AV	54.0	-15.1	3.08 H	306	35.00	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

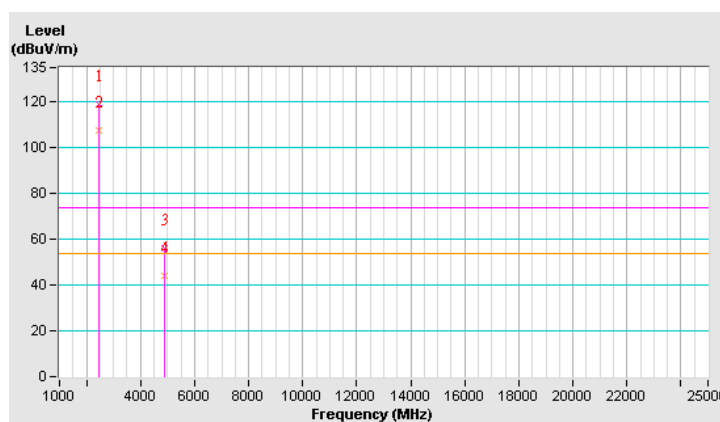


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.9 PK			1.01 V	126	85.30	33.60
2	*2437.00	107.7 AV			1.01 V	126	74.10	33.60
3	4874.00	56.3 PK	74.0	-17.7	3.22 V	313	52.40	3.90
4	4874.00	44.1 AV	54.0	-9.9	3.22 V	313	40.20	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

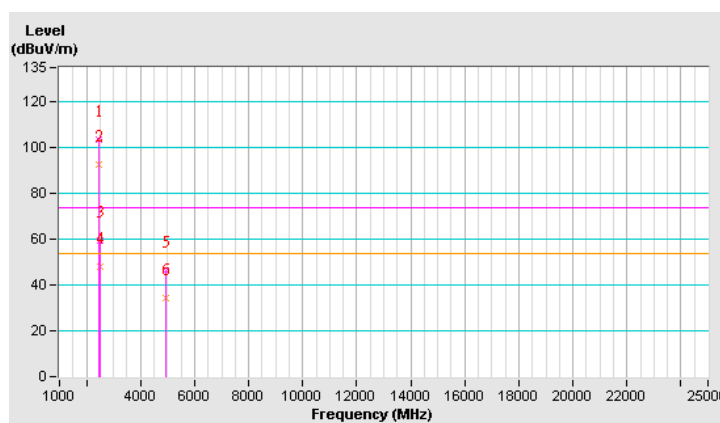


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	103.6 PK			2.78 H	38	69.80	33.80
2	*2462.00	92.9 AV			2.78 H	38	59.10	33.80
3	2483.50	59.5 PK	74.0	-14.5	2.83 H	44	25.60	33.90
4	2483.50	48.2 AV	54.0	-5.8	2.83 H	44	14.30	33.90
5	4924.00	46.6 PK	74.0	-27.4	3.27 H	279	42.60	4.00
6	4924.00	34.4 AV	54.0	-19.6	3.27 H	279	30.40	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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

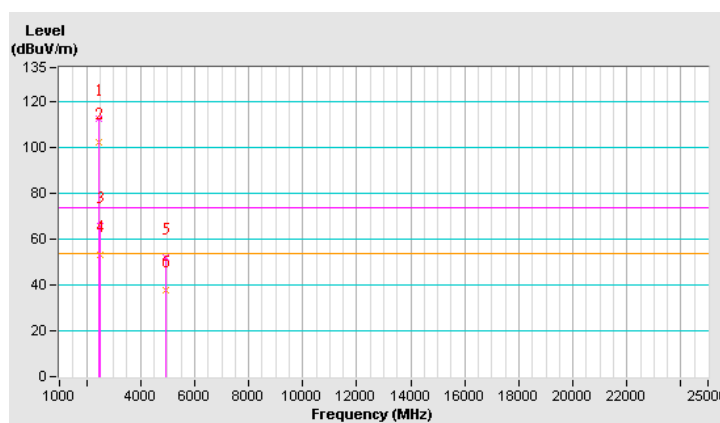


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 11：2462 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.9 PK			1.00 V	259	79.10	33.80
2	*2462.00	102.5 AV			1.00 V	259	68.70	33.80
3	2483.50	65.9 PK	74.0	-8.1	1.00 V	253	32.00	33.90
4	2483.50	53.2 AV	54.0	-0.8	1.00 V	253	19.30	33.90
5	4924.00	52.2 PK	74.0	-21.8	3.38 V	279	48.20	4.00
6	4924.00	37.6 AV	54.0	-16.4	3.38 V	279	33.60	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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



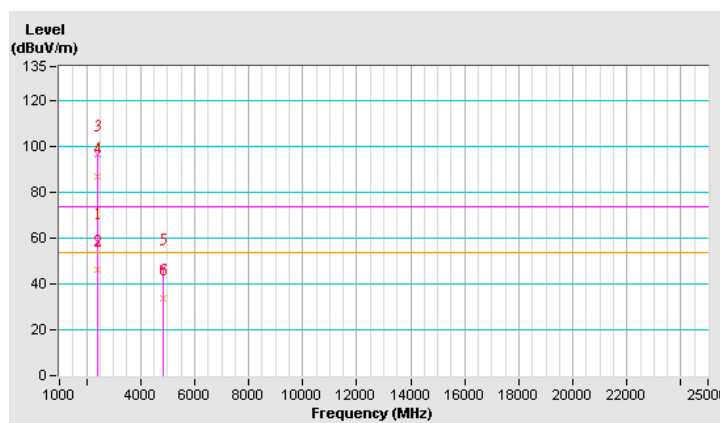
802.11n (HT40)

操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	58.4 PK	74.0	-15.6	1.00 H	318	25.00	33.40
2	2390.00	46.5 AV	54.0	-7.5	1.00 H	318	13.10	33.40
3	*2422.00	96.8 PK			2.33 H	69	63.20	33.60
4	*2422.00	87.0 AV			2.33 H	69	53.40	33.60
5	4844.00	47.0 PK	74.0	-27.0	1.25 H	53	43.20	3.80
6	4844.00	33.8 AV	54.0	-20.2	1.25 H	53	30.00	3.80
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

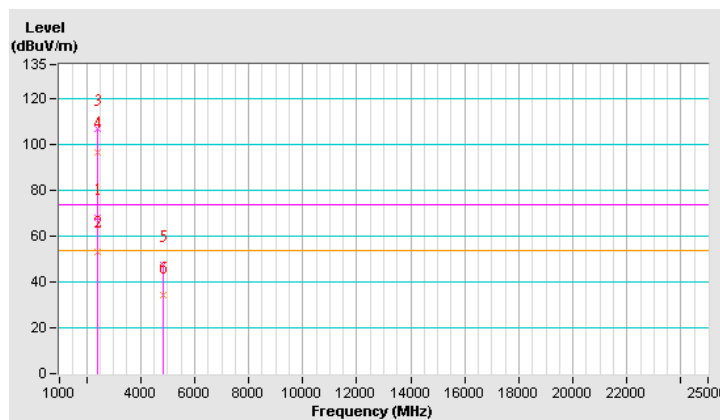


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 3：2422 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.9 PK	74.0	-6.1	1.09 V	67	34.50	33.40
2	2390.00	53.5 AV	54.0	-0.5	1.09 V	67	20.10	33.40
3	*2422.00	106.8 PK			1.10 V	330	73.20	33.60
4	*2422.00	97.0 AV			1.10 V	330	63.40	33.60
5	4844.00	47.3 PK	74.0	-26.7	1.55 V	286	43.50	3.80
6	4844.00	34.0 AV	54.0	-20.0	1.55 V	286	30.20	3.80
	7236.00	-	-	-	-	-	-	-
	9648.00	-	-	-	-	-	-	-
	12060.00	-	-	-	-	-	-	-
	14472.00	-	-	-	-	-	-	-
	16884.00	-	-	-	-	-	-	-
	19296.00	-	-	-	-	-	-	-
	21708.00	-	-	-	-	-	-	-
	24120.00	-	-	-	-	-	-	-

Remarks:

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

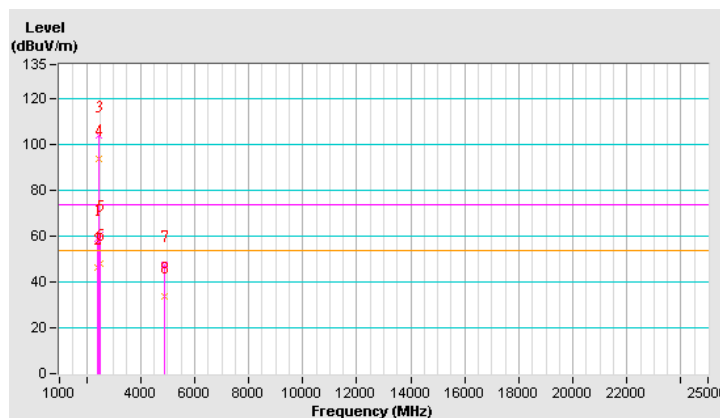


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	58.7 PK	74.0	-15.3	1.34 H	67	25.30	33.40
2	2390.00	46.6 AV	54.0	-7.4	1.34 H	67	13.20	33.40
3	*2437.00	104.3 PK			1.77 H	8	70.70	33.60
4	*2437.00	94.0 AV			1.77 H	8	60.40	33.60
5	2483.50	60.6 PK	74.0	-13.4	1.20 H	64	26.70	33.90
6	2483.50	48.0 AV	54.0	-6.0	1.20 H	64	14.10	33.90
7	4874.00	47.3 PK	74.0	-26.7	1.24 H	340	43.40	3.90
8	4874.00	33.8 AV	54.0	-20.2	1.24 H	340	29.90	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

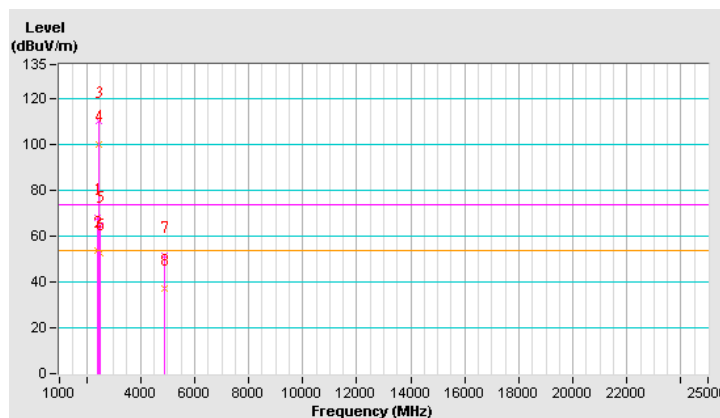


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.9 PK	74.0	-6.1	1.49 V	70	34.50	33.40
2	2390.00	53.5 AV	54.0	-0.5	1.49 V	70	20.10	33.40
3	*2437.00	110.4 PK			1.00 V	238	76.80	33.60
4	*2437.00	99.9 AV			1.00 V	238	66.30	33.60
5	2483.50	64.7 PK	74.0	-9.3	1.48 V	334	30.80	33.90
6	2483.50	52.4 AV	54.0	-1.6	1.48 V	334	18.50	33.90
7	4874.00	51.3 PK	74.0	-22.7	2.98 V	301	47.40	3.90
8	4874.00	37.4 AV	54.0	-16.6	2.98 V	301	33.50	3.90
	7311.00	-	-	-	-	-	-	-
	9748.00	-	-	-	-	-	-	-
	12185.00	-	-	-	-	-	-	-
	14622.00	-	-	-	-	-	-	-
	17059.00	-	-	-	-	-	-	-
	19496.00	-	-	-	-	-	-	-
	21933.00	-	-	-	-	-	-	-
	24370.00	-	-	-	-	-	-	-

Remarks:

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

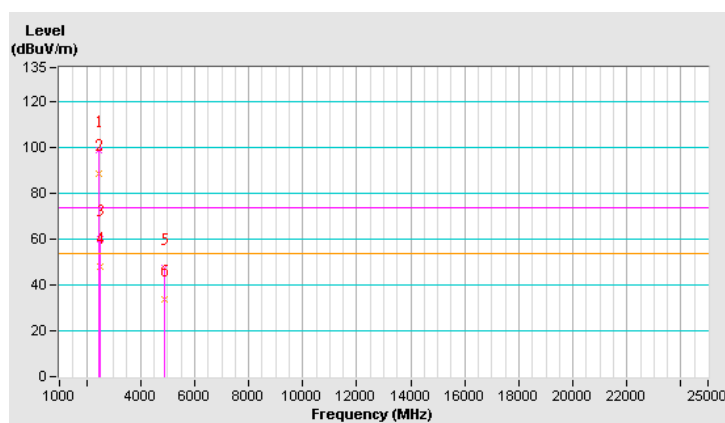


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	99.1 PK			1.22 H	14	65.30	33.80
2	*2452.00	88.6 AV			1.22 H	14	54.80	33.80
3	2483.50	59.9 PK	74.0	-14.1	1.08 H	27	26.00	33.90
4	2483.50	48.2 AV	54.0	-5.8	1.08 H	27	14.30	33.90
5	4904.00	47.5 PK	74.0	-26.5	1.89 H	268	43.50	4.00
6	4904.00	33.9 AV	54.0	-20.1	1.89 H	268	29.90	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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

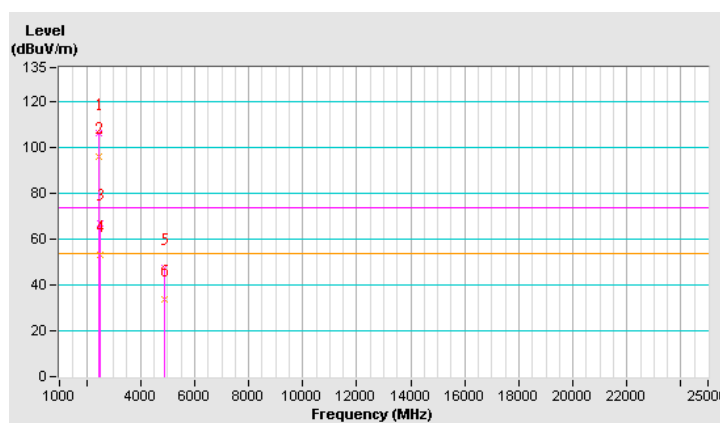


操作模式：	發射	調變技術：	OFDM
基本波頻率：	CH 9：2452 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=3kHz
量測場地溫度：	20°C	量測場地濕度：	65%RH
測試日期：	106 年 11 月 21 日	測試者：	林聖博

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	106.5 PK			1.00 V	63	72.70	33.80
2	*2452.00	96.0 AV			1.00 V	63	62.20	33.80
3	2483.50	66.7 PK	74.0	-7.3	1.00 V	64	32.80	33.90
4	2483.50	53.2 AV	54.0	-0.8	1.00 V	64	19.30	33.90
5	4904.00	47.3 PK	74.0	-26.7	1.83 V	216	43.30	4.00
6	4904.00	33.6 AV	54.0	-20.4	1.83 V	216	29.60	4.00
	7386.00	-	-	-	-	-	-	-
	9848.00	-	-	-	-	-	-	-
	12310.00	-	-	-	-	-	-	-
	14772.00	-	-	-	-	-	-	-
	17234.00	-	-	-	-	-	-	-
	19696.00	-	-	-	-	-	-	-
	22158.00	-	-	-	-	-	-	-
	24620.00	-	-	-	-	-	-	-

Remarks:

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



4.6.2 接收諧波

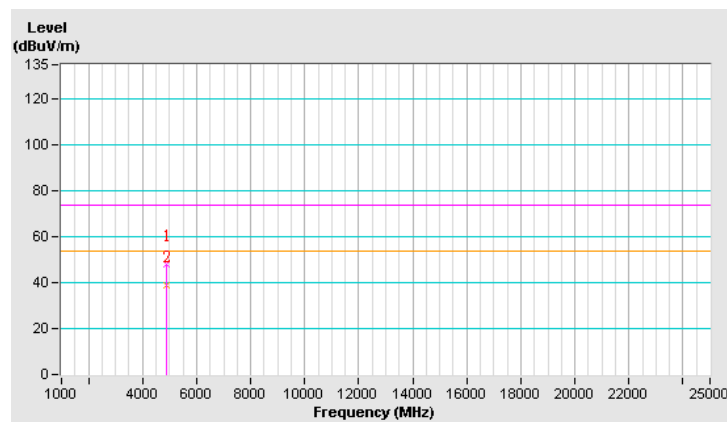
802.11g

操作模式：	接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	66%RH
測試日期：	106 年 11 月 22 日	測試者：	楊德彥

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	4874.00	48.3 PK	74.0	-25.7	1.02 H	175	44.90	3.40
2	4874.00	38.7 AV	54.0	-15.3	1.02 H	175	35.30	3.40

Remarks:

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

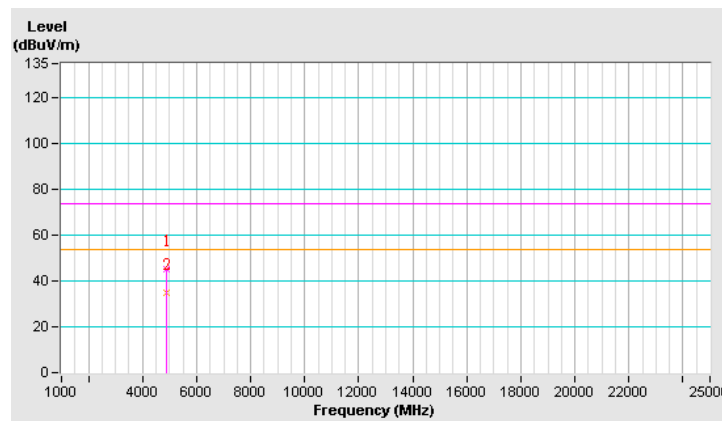


操作模式：	接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(PK) RB=1MHz, VB=3MHz (AV) RB=1MHz, VB=1kHz
量測場地溫度：	22°C	量測場地濕度：	66%RH
測試日期：	106 年 11 月 22 日	測試者：	楊德彥

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	4874.00	45.1 PK	74.0	-28.9	1.01 V	325	41.70	3.40
2	4874.00	34.8 AV	54.0	-19.2	1.01 V	325	31.40	3.40

Remarks:

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



4.6.3 其它不必要之訊號

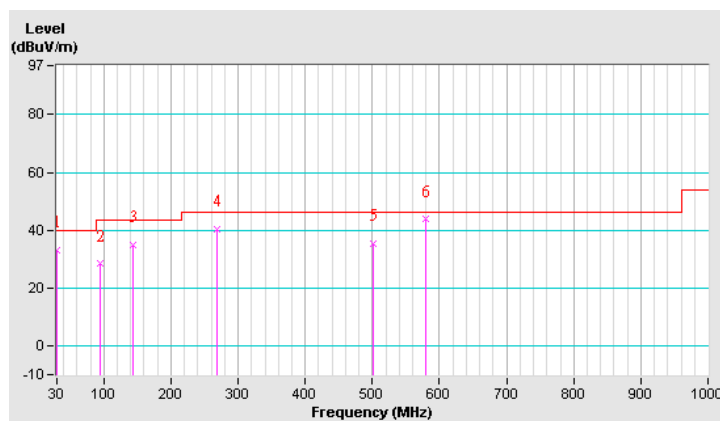
802.11g

操作模式：	發射/接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	25°C	量測場地濕度：	66%RH
測試日期：	106 年 11 月 21 日	測試者：	楊德彥

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	30.97	33.2 QP	40.0	-6.8	1.00 H	16	48.70	-15.50
2	94.99	28.3 QP	43.5	-15.2	1.99 H	299	47.00	-18.70
3	143.49	35.0 QP	43.5	-8.5	1.99 H	304	48.70	-13.70
4	268.62	40.1 QP	46.0	-5.9	1.50 H	261	53.40	-13.30
5	501.42	35.5 QP	46.0	-10.5	1.50 H	135	44.90	-9.40
6	579.99	43.7 QP	46.0	-2.3	1.50 H	123	51.70	-8.00

Remarks:

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

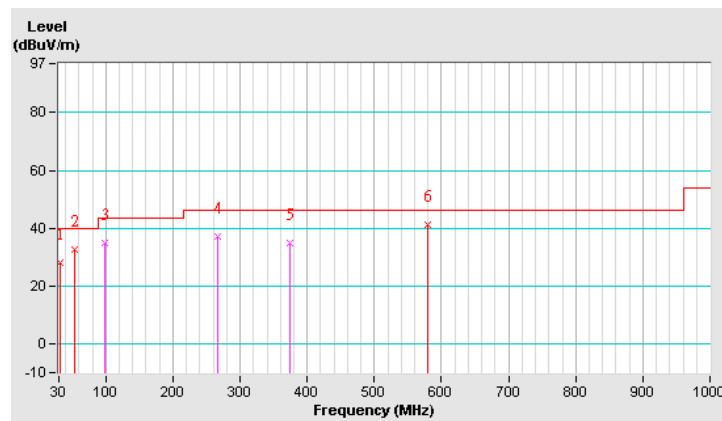


操作模式：	發射/接收	調變技術：	OFDM
基本波頻率：	CH 6：2437 MHz	測試儀器：	(QP) RB=VB=120kHz
量測場地溫度：	25°C	量測場地濕度：	66%RH
測試日期：	106 年 11 月 21 日	測試者：	楊德彥

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	32.25	28.1 QP	40.0	-11.9	1.00 V	146	43.40	-15.30
2	53.56	32.7 QP	40.0	-7.3	1.00 V	0	46.30	-13.60
3	98.87	35.1 QP	43.5	-8.4	1.00 V	292	53.30	-18.20
4	266.68	37.1 QP	46.0	-8.9	1.00 V	161	50.50	-13.40
5	373.38	34.8 QP	46.0	-11.2	1.49 V	127	46.10	-11.30
6	580.00	41.1 QP	46.0	-4.9	1.00 V	7	49.10	-8.00

Remarks:

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

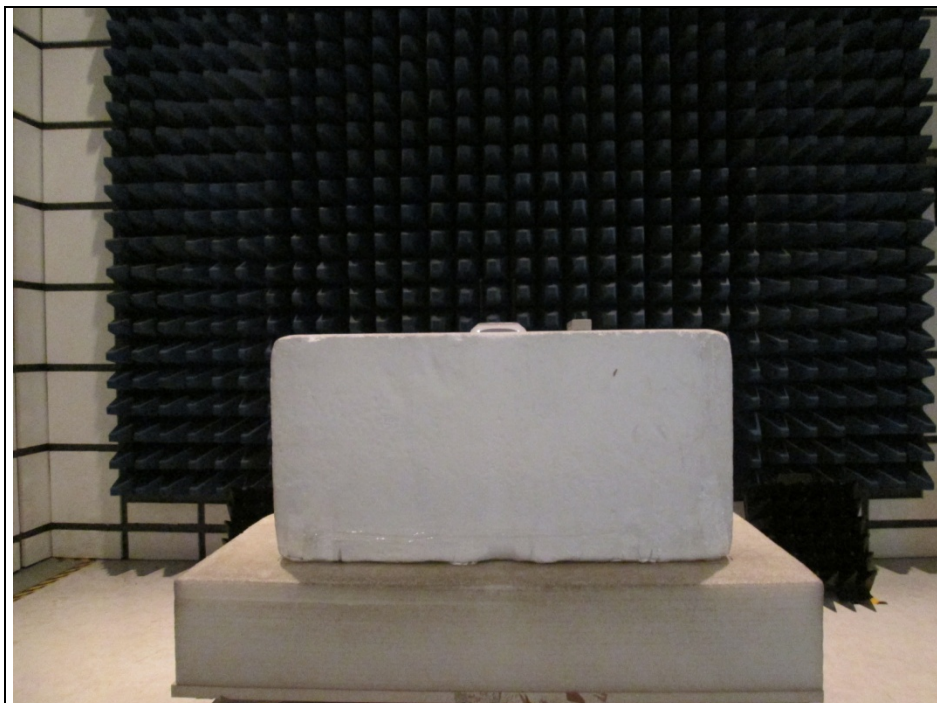


4.7 量測結果判定

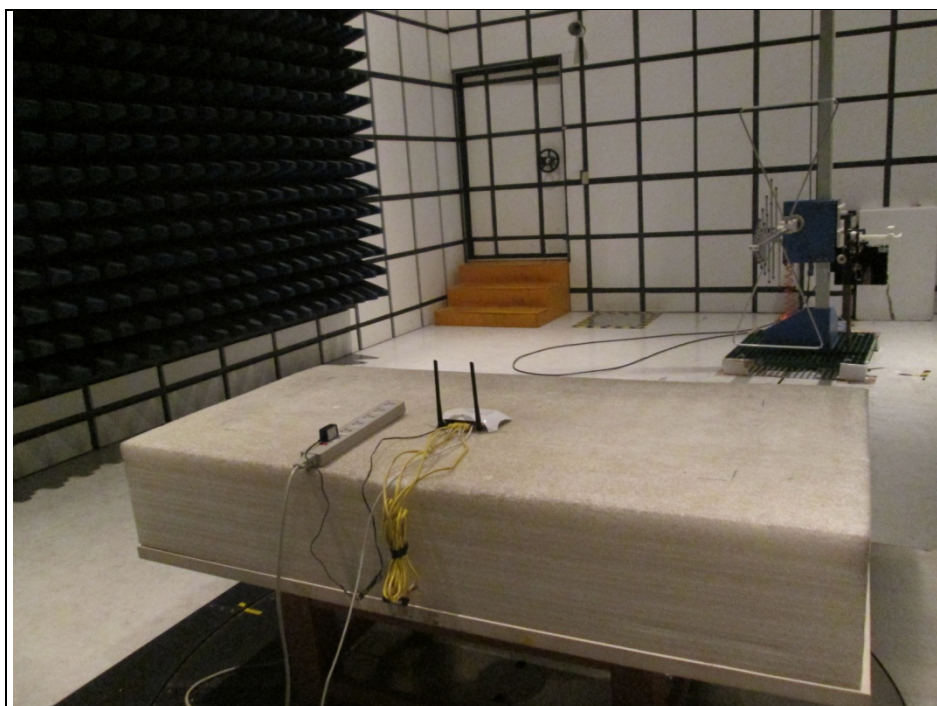
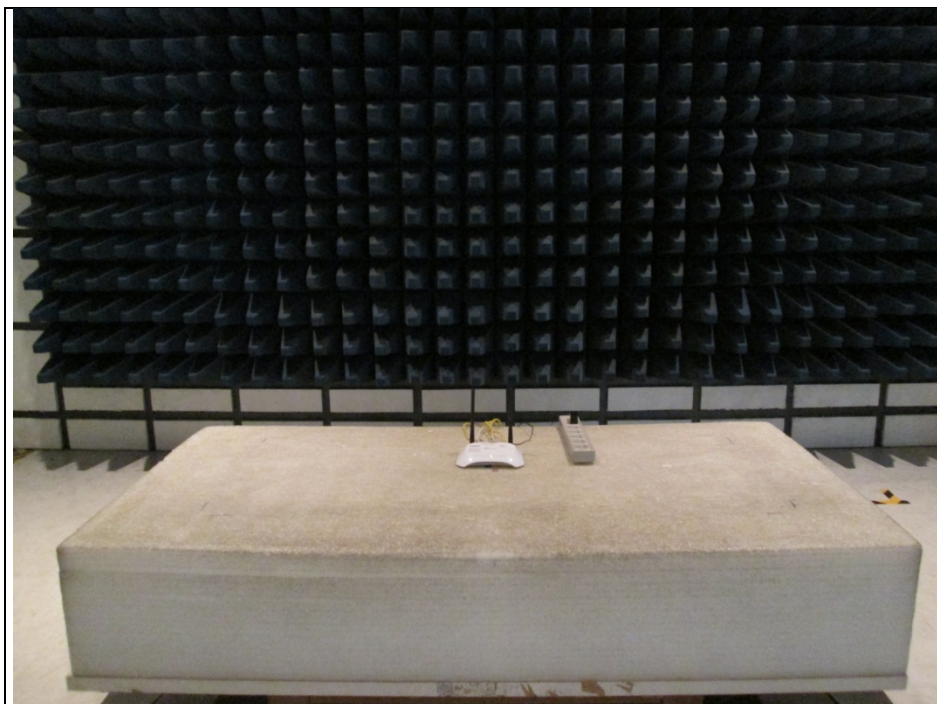
依據測試數據結果，符合低功率射頻電機技術規範之要求。

4.8 配置照片

Radiated Emissions above 1 GHz Test



Radiated Emissions below 1 GHz Test



5 電源線傳導干擾之量測

5.1 適用標準

請見本報告3.1節第1項的規定。

5.2 量測方法

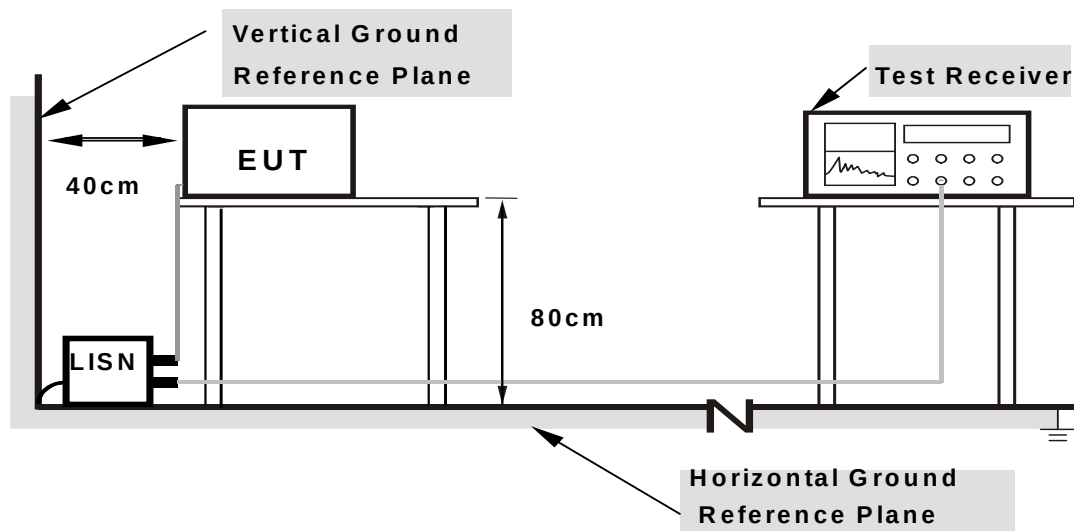
將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由0.15MHZ至30MHZ之間之電源線傳導放射強度。

5.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Conf_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.
 4. The measurement uncertainty is 2.94 dB, which is calculated as per the document CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.4 測試配置



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.5 干擾值之計算

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

電源傳導干擾電壓之計算公式如下

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

其中校正因子Correction Factor (dB)為：

饋線損失+電源阻抗模擬網路損失

5.6 量測結果

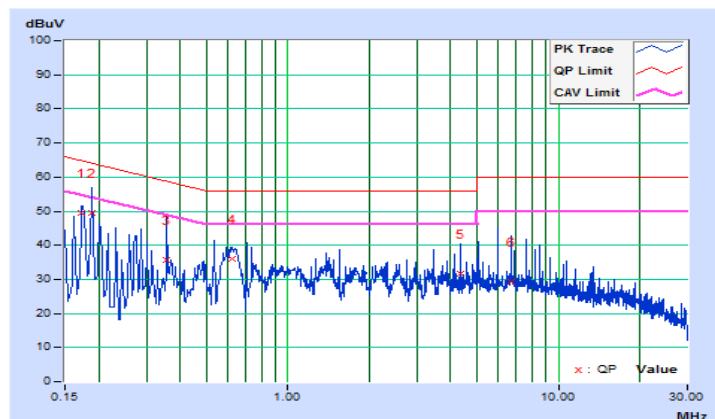
802.11g

操作模式	發射/接收	測試日期	106 年 11 月 16 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張仲志		

		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.
0.17328	10.45	39.09	23.24	49.54	33.69	64.80	54.80	-15.26	-21.11
0.18910	10.45	38.89	26.24	49.34	36.69	64.08	54.08	-14.74	-17.39
0.35723	10.50	25.19	12.53	35.69	23.03	58.79	48.79	-23.10	-25.76
0.62311	10.50	25.46	18.22	35.96	28.72	56.00	46.00	-20.04	-17.28
4.34934	10.66	21.06	8.79	31.72	19.45	56.00	46.00	-24.28	-26.55
6.66015	10.77	18.42	9.23	29.19	20.00	60.00	50.00	-30.81	-30.00

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.

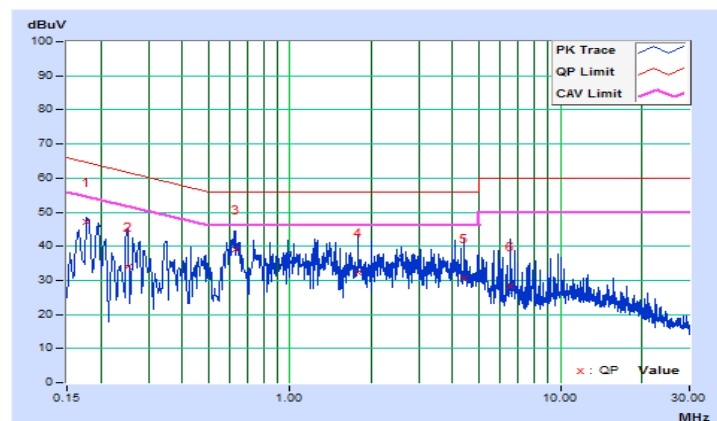


操作模式	發射/接收	測試日期	106 年 11 月 16 日
基本波頻率	CH 6 : 2437 MHz	量測場地溫度	25°C
調變技術	OFDM	量測場地濕度	75%RH
測試者	張仲志		

		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.
0.17744	10.21	37.06	20.61	47.27	30.82	64.60	54.60	-17.33	-23.78
0.25125	10.23	23.76	7.90	33.99	18.13	61.72	51.72	-27.73	-33.59
0.62689	10.25	28.82	17.49	39.07	27.74	56.00	46.00	-16.93	-18.26
1.78829	10.30	21.91	11.85	32.21	22.15	56.00	46.00	-23.79	-23.85
4.43145	10.42	20.30	8.03	30.72	18.45	56.00	46.00	-25.28	-27.55
6.56631	10.52	17.72	5.23	28.24	15.75	60.00	50.00	-31.76	-34.25

Note:

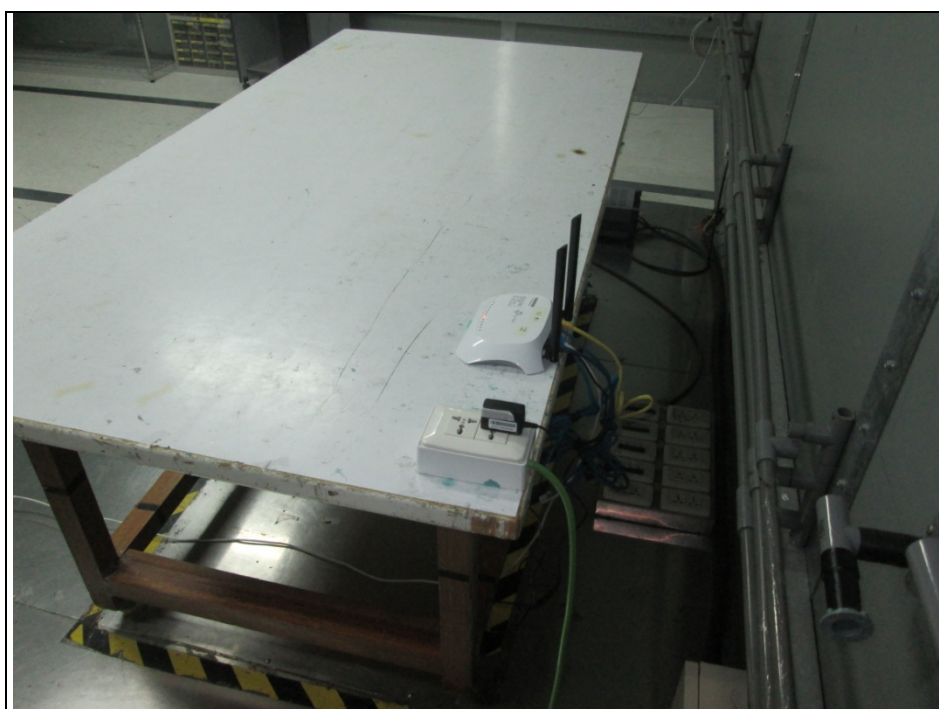
- 1.Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2.The emission levels of other frequencies were very low against the limit.
- 3.Margin value = Emission level - Limit value
- 4.Correction factor = Insertion loss + Cable loss
- 5.Emission Level = Correction Factor + Reading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



6 發射頻寬之要求

6.1 適用標準

請見本報告3.1節第5項(I)的規定。

6.2 量測方法

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

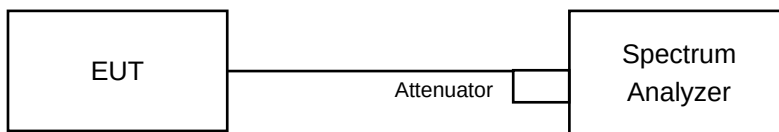
6.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer R&S	FSP40	100040	Aug.18, 2017	Aug.17, 2018

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

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

6.4 測試配置



6.5 量測結果

操作模式	發射	測試日期	106 年 11 月 26 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林山銘		

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	9.57	10.03	0.5	Pass
6	2437	10.08	10.00	0.5	Pass
11	2462	10.07	10.09	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	15.16	15.14	0.5	Pass
6	2437	15.15	15.15	0.5	Pass
11	2462	15.12	15.14	0.5	Pass

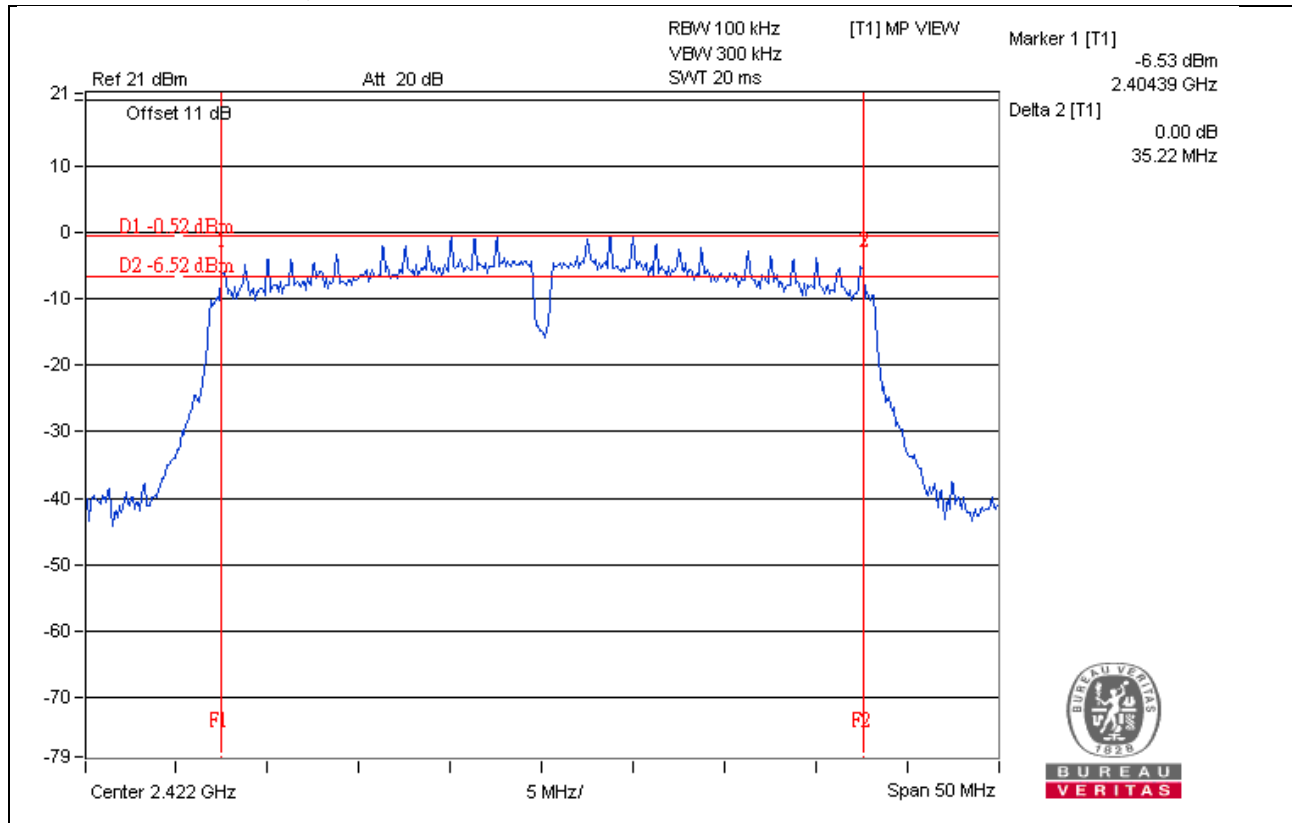
802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	15.15	15.16	0.5	Pass
6	2437	15.16	15.15	0.5	Pass
11	2462	15.13	15.15	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.22	35.16	0.5	Pass
6	2437	35.17	35.16	0.5	Pass
9	2452	35.19	35.18	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 輸出峰值功率之量測

7.1 適用標準

請見本報告3.1節第6項(I)及4項(I)的規定。

7.2 量測方法

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

7.3 量測儀器

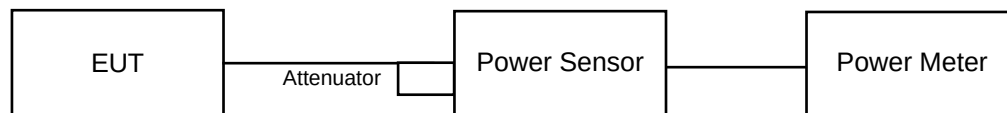
Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Power meter Anritsu	ML2495A	0842014	Apr. 24, 2017	Apr. 23, 2018
Power sensor Anritsu	MA2411B	0738404	Apr. 24, 2017	Apr. 23, 2018

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

- The measurement uncertainty is 1.393dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

- Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	106 年 11 月 26 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林山銘		

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.43	20.22	215.604	23.34	30	Pass
6	2437	19.03	19.13	161.829	22.09	30	Pass
11	2462	19.91	20.11	200.514	23.02	30	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	16.05	15.69	77.34	18.88	30	Pass
6	2437	21.16	21.46	270.576	24.32	30	Pass
11	2462	15.96	16.25	81.616	19.12	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.86	15.74	76.045	18.81	30	Pass
6	2437	21.04	21.25	260.409	24.16	30	Pass
11	2462	15.74	16.25	79.667	19.01	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	11.32	11.35	27.198	14.35	30	Pass
6	2437	15.89	16.23	80.791	19.07	30	Pass
9	2452	10.96	11.30	25.964	14.14	30	Pass

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

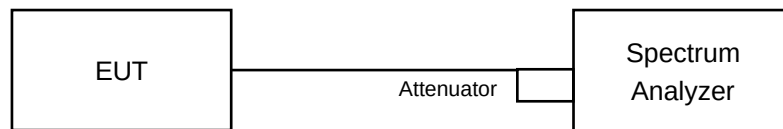
- 將待測物之天線埠經由適當之衰減直接連至測試儀器。
- 設定解析頻寬為10kHz，視訊頻寬為30kHz，掃描時間為auto。
- 掃描頻寬設於足夠觀察發射機所產生的主頻信號，並找到最大的峰值準位。
- 校正後的值，其峰值位準必須不大於+8dBm。

8.3 量測儀器

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer R&S	FSP40	100040	Aug.18, 2017	Aug.17, 2018

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	106 年 11 月 26 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	林山銘		

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Duty Factor	Total PSD with Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-8.48	3.01	0.15	-5.32	6.99	Pass
	6	2437	-8.73	3.01	0.15	-5.57	6.99	Pass
	11	2462	-8.06	3.01	0.15	-4.90	6.99	Pass
1	1	2412	-7.43	3.01	0.15	-4.27	6.99	Pass
	6	2437	-8.80	3.01	0.15	-5.64	6.99	Pass
	11	2462	-7.87	3.01	0.15	-4.71	6.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.0dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Duty Factor	Total PSD with Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-14.44	3.01	0.60	-10.83	6.99	Pass
	6	2437	-9.81	3.01	0.60	-6.20	6.99	Pass
	11	2462	-14.56	3.01	0.60	-10.95	6.99	Pass
1	1	2412	-15.41	3.01	0.60	-11.80	6.99	Pass
	6	2437	-11.13	3.01	0.60	-7.52	6.99	Pass
	11	2462	-15.02	3.01	0.60	-11.41	6.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4.0dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Duty Factor	Total PSD with Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-14.11	3.01	0.61	-10.49	6.99	Pass
	6	2437	-10.04	3.01	0.61	-6.42	6.99	Pass
	11	2462	-14.37	3.01	0.61	-10.75	6.99	Pass
1	1	2412	-14.32	3.01	0.61	-10.70	6.99	Pass
	6	2437	-10.09	3.01	0.61	-6.47	6.99	Pass
	11	2462	-13.02	3.01	0.61	-9.40	6.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4.0dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

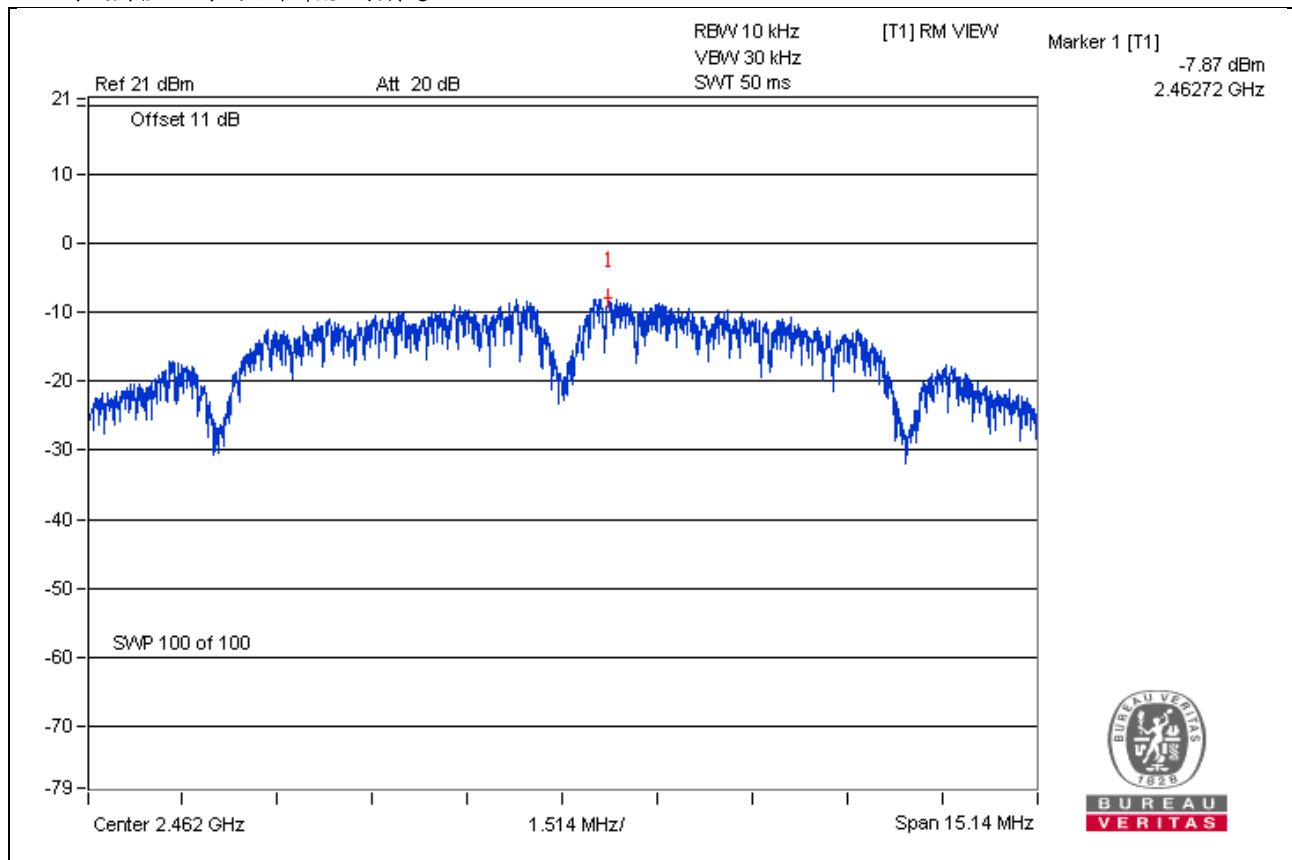
802.11n (HT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Duty Factor	Total PSD with Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-24.49	3.01	1.50	-19.98	6.99	Pass
	6	2437	-19.25	3.01	1.50	-14.74	6.99	Pass
	9	2452	-24.75	3.01	1.50	-20.24	6.99	Pass
1	3	2422	-23.49	3.01	1.50	-18.98	6.99	Pass
	6	2437	-20.44	3.01	1.50	-15.93	6.99	Pass
	9	2452	-25.14	3.01	1.50	-20.63	6.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4.0dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



8.6 量測結果判定

依據測試數據結果，符合低功率射頻電機技術規範之要求。

9 電波暴露量之評估

9.1 適用標準

請見本報告3.1節第8項的規定。

9.2 評估方法

a) 以7.5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/cm^2

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

9.3 評估結果

電波暴露量之評估

☐ 待測物並非是 WLAN AP/Router 產品，不需進行電波暴露量之評估

☒ 待測物為 WLAN AP/Router 產品，需進行電波暴露量之評估

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	24.32	7.01	20	0.270	1

Note: Directional gain = 4.0dBi + 10log(2) = 7.01dBi

10 檢測實驗室基本資料

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

如您有任何問題或建議，請與下列實驗室聯絡：

林口 EMC / RF 實驗室：

Tel: 886-2-26052180

Fax: 886-2-26051924

新竹 EMC / RF 及通訊實驗室：

Tel: 886-3-6668565

Fax: 886-3-6668323

華亞 EMC / RF / Safety 實驗室：

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

您也可以在我们的網站內找到各實驗室的地圖。

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