

低功率射頻器材試驗報告

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NO.18 Gaoxin South 4th Ave, Nanshan District, Shenzhen,
Guangdong, China

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14th floor, West Wing, Skyworth Semiconductor Design Building
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Guangdong, China

產品名稱 Mavic 2 Enterprise Advanced

廠牌 DJI

型號 L1TE

系列申請 N/A

報告號碼 E2/2021/20047

技術標準 LP0002 5.7節

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待測裝置已於台灣檢驗科技股份有限公司射頻實驗中心，依據國家通訊傳播委員會於中華民國一百零九年七月頒佈之低功率射頻器材技術規範測試。

台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

報告中所描述之測試結果和待測設備的架構組合，均根據實際量測情況作詳實的記錄，且本測試報告僅對上述待測設備樣品負責。

Approved By:



裴笛翰 / 副主任



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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/20047	00	Original.	民國 110 年 4 月 8 日	林詩珊

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- 2、測試報告 E2/2021/20046 之電源線傳導干擾及 Fully system 場強輻射測試數據，沿用於此報告中。

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1 測試實驗室資料

1.1 認可登錄資訊:

實驗室認可登錄： 中華民國實驗室認證體系

認可編號： TAF 3702

認證有效期間： 109年01月30日起至110年06月13日止

實驗室名稱： 台灣檢驗科技股份有限公司射頻實驗中心

實驗室地址： 新北市新北產業園區五工路134號

電話： 886-2-22993939

傳真： 886-2-22982698

1.2 實驗室場地資訊

測試場地	測試場地編號		
新北市新北產業園區五工路 134 號	SAC 1	SAC 3	Conducted 1
	Conducted 2	Conducted 3	Conducted 4
	Conducted 5	Conducted 6	Conducted 7
	Conducted 8	Conducted 9	Conducted 10
桃園市龜山區(華亞科技園區)科技一路 2 號	Conduction A	SAC C	SAC D
	SAC E	Conducted A	Conducted B
	Conducted C	Conducted D	Conducted E
	Conducted F	Conducted G	Conducted H
	Conducted I	Conducted J	Conducted TS8997
註: 測試場地編號記錄於每項測試之儀器清單, 用以表示測試場地地址。			

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2 實驗室之量測不確定度

量測項目	量測不確定度			
	(擴充不確定度)			
傳導干擾量測	電源線	0.15-30MHz	2.34	dB
輻射干擾量測 (3m 測距)	水平極化	9kHz - 30MHz	2.64	dB
		30-1000MHz	4.45	dB
		1-18GHz	4.81	dB
		18-40GHz	4.52	dB
	垂直極化	9kHz - 30MHz	2.64	dB
		30-1000MHz	4.93	dB
		1-18GHz	4.81	dB
		18-40GHz	4.52	dB
頻率誤差量測			1.54	Hz
輸出功率	傳導方式		1	dB
有效輻射功率 (輻射方式)	水平極化	30-1000MHz	2	dB
		1-40GHz	3	dB
	垂直極化	30-1000MHz	2.33	dB
		1-40GHz	3	dB
功率頻譜密度	傳導方式		1.54	dB
鄰頻道功率量測 (輻射方式)	水平極化	30-1000MHz	2	dB
	垂直極化	30-1000MHz	2.33	dB
Transmitter Spurious Emission	33GHz-50GHz		3.8	dB
	50GHz-60GHz		4.67	dB
	60GHz-90GHz		4.81	dB
	90GHz-140GHz		4.57	dB
	140GHz-200GHz		5.42	dB

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度。

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3 一般資料

3.1 產品描述

產品名稱	Mavic 2 Enterprise Advanced		
型號	L1TE		
產品商標	DJI		
辰陽適配器	Model No.: QC24-US, Brand:DJI		
M2E 夜航燈	Model No.: M2E BEACON, Brand: DJI		
M2E 探照燈	Model No.: M2E SPOTLIGHT, Brand: DJI		
M2E 擴音器	Model No.: M2E SPEAKER, Brand: DJI		
Cable	1. Model No.: RC Cable, Brand: DJI 2. Model No.: A12-0103-AC2+A12-0102-AC2(125V 7A 2P C7), Brand: 博碩科技（江西）有限公司		
使用電源	15.4 Vdc from Lithium Ion Polymer Rechargeable Battery		
	Battery:	Model No.: FB2-3850mAh-15.4V, Brand: DJI	
	Adapter:	Model No.: F2C60, Brand: DJI	
	Remark: Battery is charged by 5V/2A , 17/3.53A , 17.6V/3.41A AC/DC Adapter		

3.2 天線型式/天線增益

天線型式	Brand	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	DJI	WM240 DRONE ANT L	5725~5850	4
PCB	DJI	WM240 DRONE ANT R	5725~5850	4

本案經申請者切結器材不提供隨貨配件，配件由申請者提供併同檢驗，產品名稱: RTK dongle，Brand: DJI，型號: M2EARM。

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3.3 射頻特性

5.8G

帶寬 (occupied bandwidth)	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
1.4M	5728.5-5844.5	60	10.84 dBm	OFDM
10M	5732.5-5844.5	115	22.93 dBm	OFDM
20M	5735.5~5839.5	105	22.56 dBm	OFDM

3.4 使用頻段

採用OFDM/OFDMA 調變技術之發射頻率：

5728.5-5844.5MHz 共有60個頻道,

5732.5-5844.5MHz 共有115個頻道,

5735.5~5839.5MHz 共有105個頻道,

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4 最差測試模式:**4.1.1 RADIATED EMISSION TEST:**

RADIATED EMISSION TEST (BELOW 1 GHz)						
Mode	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
1.4M	5728.5~5844.5	1 to 60	29	OFDM	N/A	ch1
Fully System						

RADIATED EMISSION TEST (ABOVE 1 GHz)						
Mode	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
1.4M	5728.5~5844.5	1 to 60	1,29,59	OFDM	N/A	ch1
10M	5732.5~5844.5	3 to 115	3,58,115	OFDM	N/A	ch1
20M	5735.5~5839.5	1 to 105	1,53,105	OFDM	N/A	ch1

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Transmitter for channel Low, Mid and High, the worst case H position was reported.

4.1.2 ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
Mode	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
1.4M	5728.5~5844.5	1 to 60	1,29,59	OFDM	N/A	ch1
10M	5732.5~5844.5	3 to 115	3,58,115	OFDM	N/A	ch1
20M	5735.5~5839.5	1 to 105	1,53,105	OFDM	N/A	ch1

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5 測試方法之依據

本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻器材技術規範(LP0002, 109.7.1 版本) 如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI C63.10:2013、FCC CFR 47 15.407、FCC 14-30、KDB 789033D02 之檢驗法。

低功率射頻器材技術規範5.7節及FCC Part 15.407

項次	測試項目	適用規範	測試結果
1	不必要發射之限制	低功率射頻器材技術規範 5.7.4	合格
2	電源線傳導干擾	低功率射頻器材技術規範 3.3節	合格
3	天線增益之要求	低功率射頻器材技術規範 5.7.3.1 (1) (C) , (2) (C) , (3) (C) , (4) (C) 5.7.3.2 (3) 5.7.3.3 (3) , (4)	合格
4	26 dB& 6dB頻寬	低功率射頻器材技術規範 5.7.3 ,4	合格
5	最大輸出功率	低功率射頻器材技術規範 5.7.3	合格
6	功率密度	低功率射頻器材技術規範 5.7.3	合格

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6 適用規範

6.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻器材技術規範之3.3節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自150 kHz~30 百萬赫(MHz) 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利(uH)及50 歐姆(Ω)之電源線阻抗穩定網路(Line Impedance Stabilization Network; LISN)。頻率重疊處，以較低限制值為準。

頻率(MHz)	傳導限制值 (dBuV)	
	準峰值 (Quasi – peak)	平均值 (Average)
0.15 – 0.5	66 – 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) 輻射之規定

依據NCC低功率射頻器材技術規範3.5節之要求，其他開放頻帶外不必要之輻射需符合3.6節之一般限制要求，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值為準。

頻率 MHz	測試距離 m	其他發射之限制值	
		dBuV/m	μ V/m
0.009 – 0.490 (含)	300	128.5-93.8	2,400 / 頻率 (千赫)
0.490 (不含) – 1.705 (含)	30	73.8-62.9	24,000 / 頻率 (千赫)
1.705 (不含) – 30 (含)	30		30
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
960以上	3	54.0	500

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻器材技術規範3.5節之要求，任何低功率射頻器材之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻器材落於下表所列頻帶內之混附發射，其電場強度必須符合第3.6節的限制規定。

頻率 (MHz)	頻率 (MHz)	頻率 (MHz)
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	

(4) 依據NCC低功率射頻器材技術規範3.9節之要求，低功率射頻電機之收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；收信機之輻射電場強度不得超過3.6之發射規定，且不得解調3.5所列之頻率。

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6.2 規範要求

依據NCC低功率射頻器材技術規範5.7節無線資訊傳輸設備規範之規定如下

(A) 最大輸出功率與功率頻譜密度及天線增益，以及發射限制之要求限制

依據NCC低功率射頻器材技術規範5.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 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。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 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。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 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。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 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。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 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。
- (4) 除(3)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。

(B) 不必要發射之限制

依據NCC低功率射頻器材技術規範5.7.4節之要求，在5.15 GHz~5.35 GHz 及5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。

在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率(EIRP) $\leq$ 15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；有關遮罩限制值詳圖1。

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

$E = 1000000 \cdot (30 \cdot EIRP)^{1/2} / 3 \text{ uV/m}$
= 68.3dBuV/m

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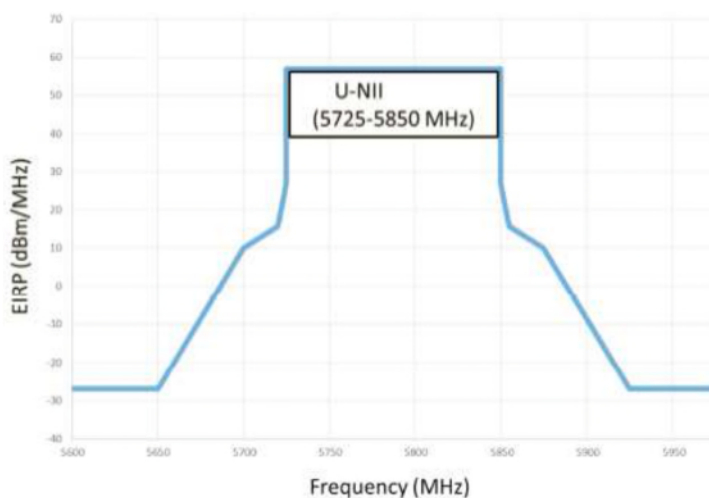


圖 1

(C) 依據 NCC 低功率射頻器材技術規範 5.7.3.4 節之要求，26dB & 6dB 發射頻寬之測試

(1) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻段，測試儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。

(2) 5.725 GHz~5.850 GHz 頻段，測試儀器之頻寬應設定為 500 kHz 或待測物之 26dB 發射頻寬，兩者取較小者。

解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

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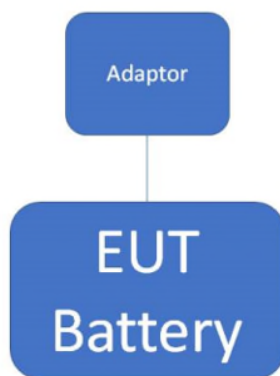
7 測試配置

7.1 待測物與測試週邊配置圖

Conducted (Antenna Port) & Radiated Emission



Conduction (AC Power Line) Emission

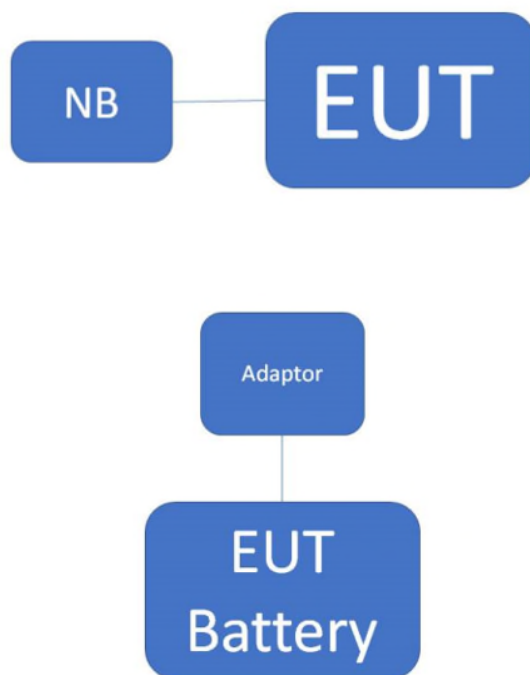


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System Mode



7.2 測試週邊描述

編號	產品別	商標	版本	型號	序號
1.	DjiSdrConsole	N/A	V1.3.5.67	N/A	N/A
2.	Notebook	Lenovo	N/A	L440	P0000367

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8 量測儀器設備

8.1 AC 電源端傳導干擾之量測儀器

Radiated Emission Test Site: Conduction A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2020	03/26/2021
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2020	03/26/2021
Micro SD Card	Transcend	8GB	NA	N.C.R	N.C.R
USB Cable	EDISON	EDS-J822	USB to Micro	N.C.R	N.C.R
Power Box	REMAX	REMAX E5	I/o Battery	N.C.R	N.C.R
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R

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8.2 量測場強輻射之量測儀器

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G016	RF199	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G021	RF200	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

8.3 天線端傳導測試之量測儀器

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A 196C	RF70	11/19/2020	11/18/2021
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
DC Block	PASTERNAK	PE8210	RF151	11/19/2020	11/18/2021

註: 以上部份設備跟量測值沒有影響, 且沒有直接關聯, 因此不需要進行校正。

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9 電源線傳導干擾之量測

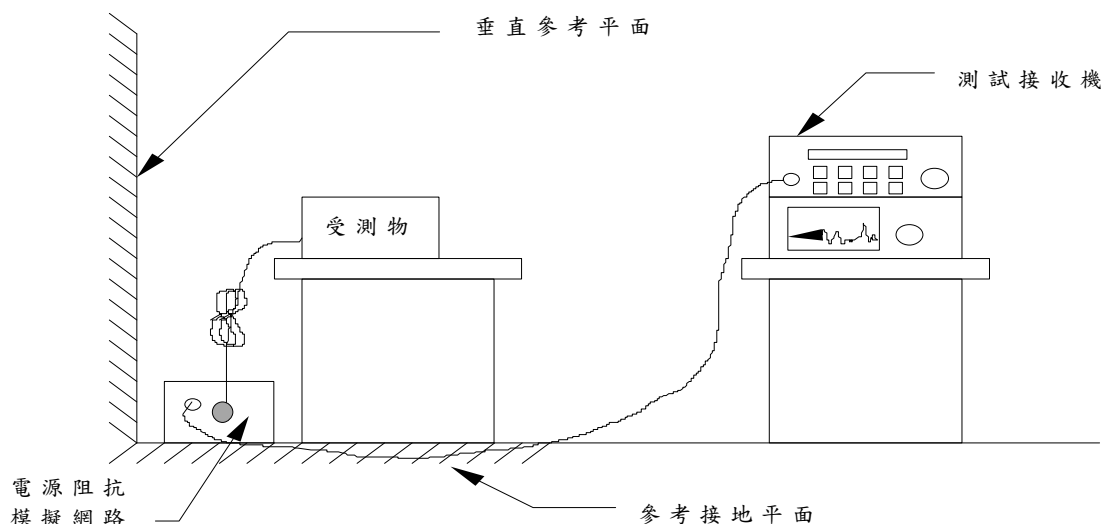
9.1 適用標準

依據NCC低功率射頻器材技術規範3.3節之要求。

9.2 測試方法

將待測物置於0.8米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線傳導放射強度的峰值量側(Peak)並提供掃描圖，Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

9.3 測試配置



9.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

結果值 = 儀器讀值(QP/AV) + 校正因子

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

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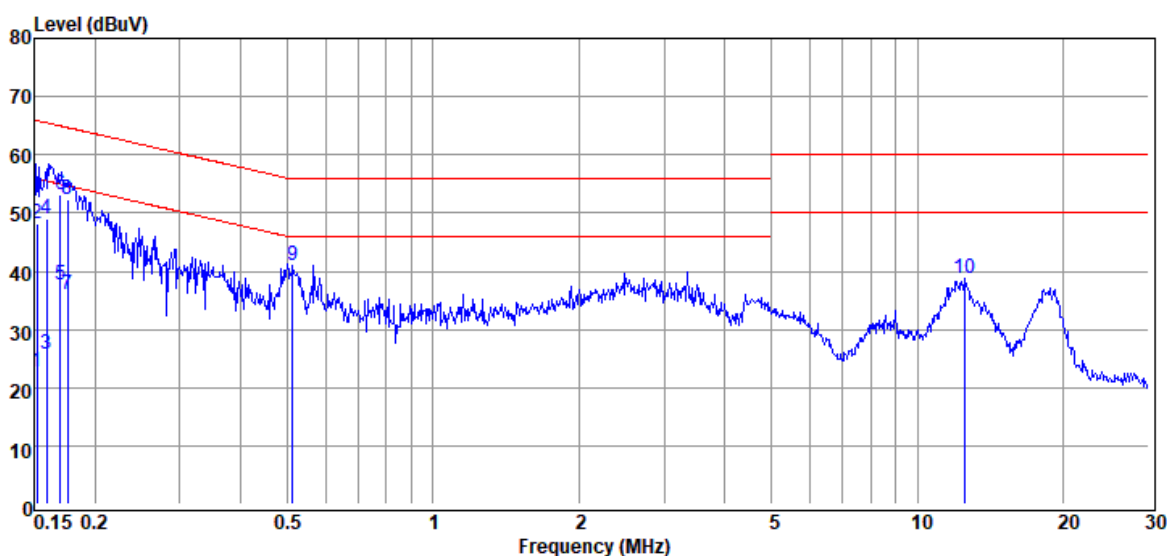
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9.5 傳導干擾之量測結果

Report Number :E2-2021-20046
Test Mode :System RTK模組
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	12.35	10.22	22.57	55.90	-33.33
0.15	QP	37.98	10.22	48.20	65.90	-17.70
0.16	Average	15.51	10.22	25.73	55.51	-29.78
0.16	QP	38.90	10.22	49.12	65.51	-16.39
0.17	Average	27.42	10.22	37.64	54.96	-17.32
0.17	QP	42.80	10.22	53.02	64.96	-11.94
0.18	Average	25.64	10.22	35.86	54.68	-18.82
0.18	QP	42.22	10.22	52.44	64.68	-12.24
0.51	Peak	30.71	10.23	40.94	56.00	-15.06
12.52	Peak	27.95	10.75	38.70	60.00	-21.30

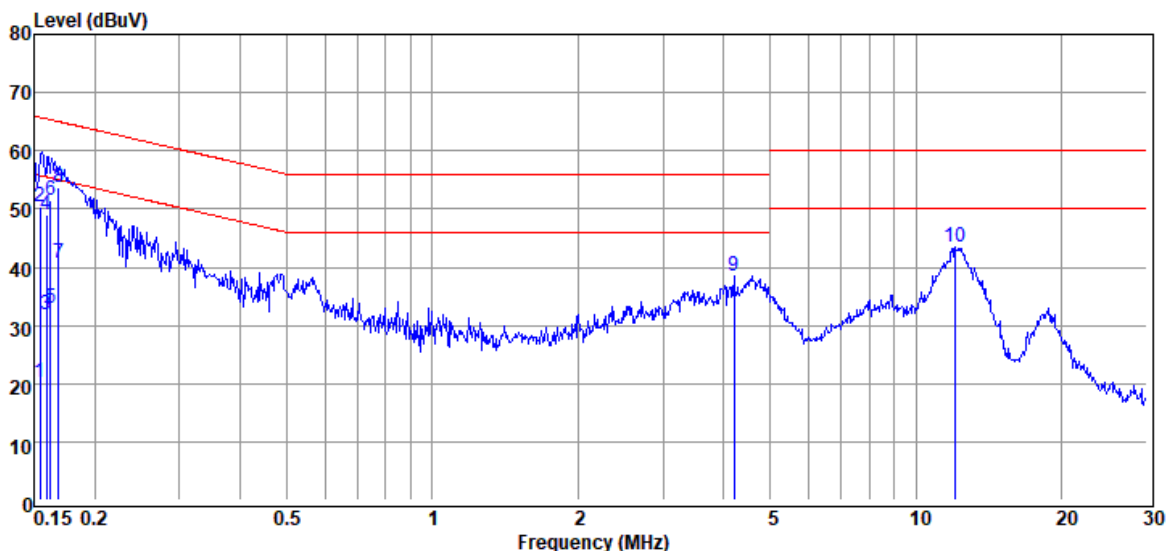
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Report Number :E2-2021-20046
Test Mode :System RTK模組
Power :110V/60Hz
Probe :N
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	9.88	10.21	20.09	55.76	-35.67
0.15	QP	40.11	10.21	50.32	65.76	-15.44
0.16	Average	21.60	10.21	31.81	55.50	-23.69
0.16	QP	38.69	10.21	48.90	65.50	-16.60
0.16	Average	22.66	10.21	32.87	55.35	-22.48
0.16	QP	41.40	10.21	51.61	65.35	-13.74
0.17	Average	30.39	10.21	40.60	55.03	-14.43
0.17	QP	43.45	10.21	53.66	65.03	-11.37
4.20	Peak	28.01	10.50	38.51	56.00	-17.49
12.06	Peak	32.63	10.75	43.38	60.00	-16.62

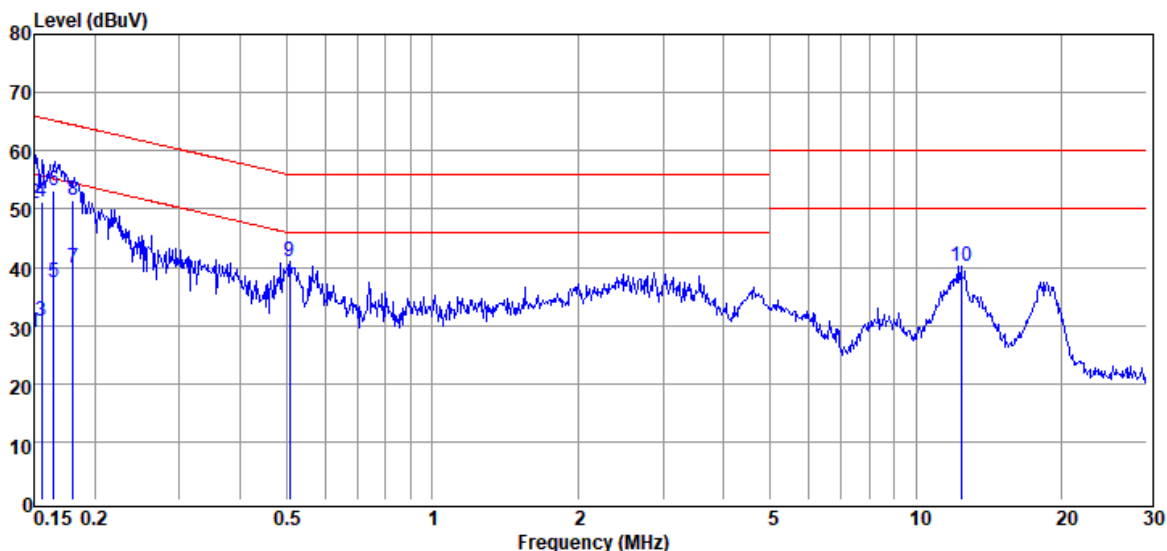
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Report Number :E2-2021-20046
Test Mode :System 探照燈
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.3/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	18.62	10.22	28.84	55.98	-27.14
0.15	QP	40.60	10.22	50.82	65.98	-15.16
0.16	Average	20.39	10.22	30.61	55.70	-25.09
0.16	QP	40.90	10.22	51.12	65.70	-14.58
0.16	Average	27.02	10.22	37.24	55.22	-17.98
0.16	QP	42.87	10.22	53.09	65.22	-12.13
0.18	Average	29.73	10.22	39.95	54.47	-14.52
0.18	QP	41.34	10.22	51.56	64.47	-12.91
0.51	Peak	30.70	10.23	40.93	56.00	-15.07
12.38	Peak	29.48	10.75	40.23	60.00	-19.77

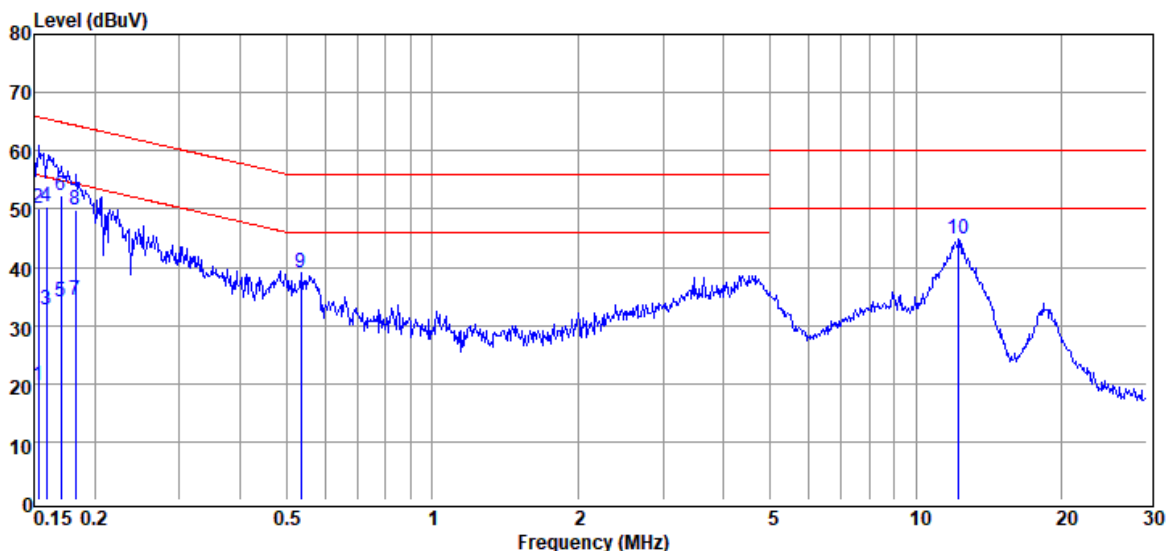
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Report Number :E2-2021-20046
Test Mode :System 探照燈
Power :110V/60Hz
Probe :N
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.3/56
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	9.39	10.21	19.60	55.84	-36.24
0.15	QP	39.99	10.21	50.20	65.84	-15.64
0.16	Average	22.49	10.21	32.70	55.51	-22.81
0.16	QP	40.23	10.21	50.44	65.51	-15.07
0.17	Average	23.97	10.21	34.18	54.94	-20.76
0.17	QP	42.19	10.21	52.40	64.94	-12.54
0.18	Average	24.09	10.21	34.30	54.37	-20.07
0.18	QP	39.60	10.21	49.81	64.37	-14.56
0.53	Peak	28.82	10.24	39.06	56.00	-16.94
12.25	Peak	34.13	10.75	44.88	60.00	-15.12

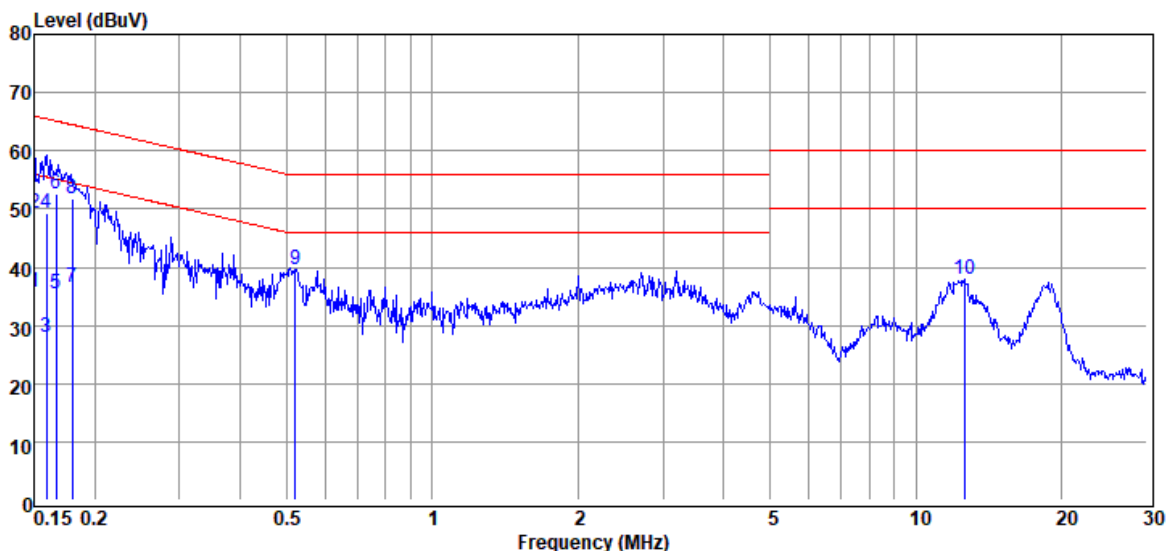
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Report Number :E2-2021-20046
Test Mode :System 夜航燈
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.2/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	25.51	10.22	35.73	55.99	-20.26
0.15	QP	39.00	10.22	49.22	65.99	-16.77
0.16	Average	17.88	10.22	28.10	55.51	-27.41
0.16	QP	39.19	10.22	49.41	65.51	-16.10
0.17	Average	25.31	10.22	35.53	55.12	-19.59
0.17	QP	42.29	10.22	52.51	65.12	-12.61
0.18	Average	26.35	10.22	36.57	54.49	-17.92
0.18	QP	41.41	10.22	51.63	64.49	-12.86
0.52	Peak	29.38	10.25	39.63	56.00	-16.37
12.58	Peak	27.08	10.75	37.83	60.00	-22.17

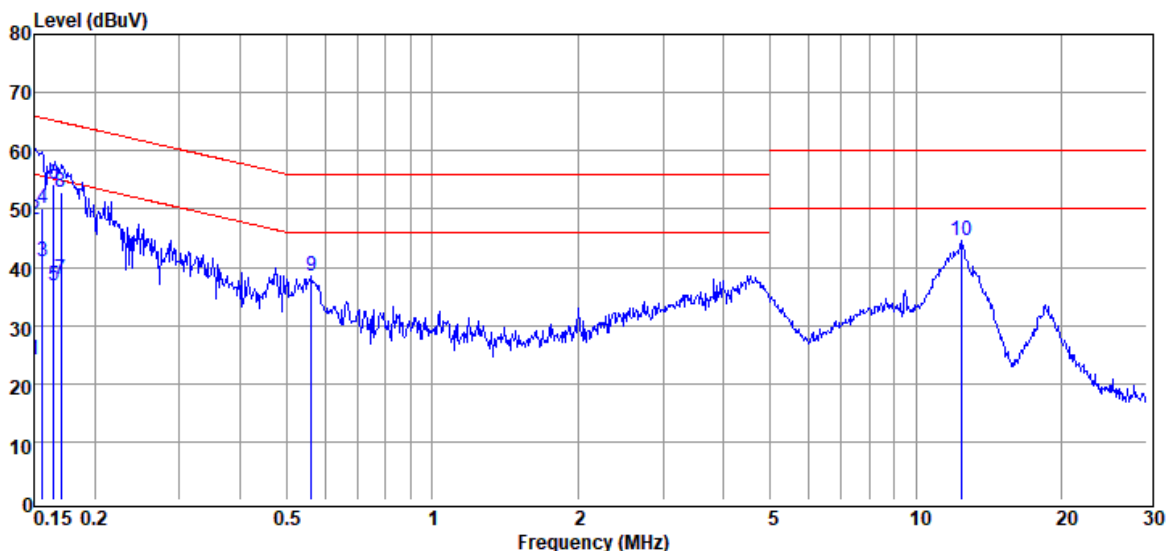
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Report Number :E2-2021-20046
Test Mode :System 夜航燈
Power :110V/60Hz
Probe :N
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.2/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	13.90	10.21	24.11	55.98	-31.87
0.15	QP	37.89	10.21	48.10	65.98	-17.88
0.16	Average	30.86	10.21	41.07	55.66	-14.59
0.16	QP	39.96	10.21	50.17	65.66	-15.49
0.16	Average	26.68	10.21	36.89	55.21	-18.32
0.16	QP	44.06	10.21	54.27	65.21	-10.94
0.17	Average	27.73	10.21	37.94	54.94	-17.00
0.17	QP	42.59	10.21	52.80	64.94	-12.14
0.56	Peak	28.32	10.26	38.58	56.00	-17.42
12.38	Peak	33.83	10.76	44.59	60.00	-15.41

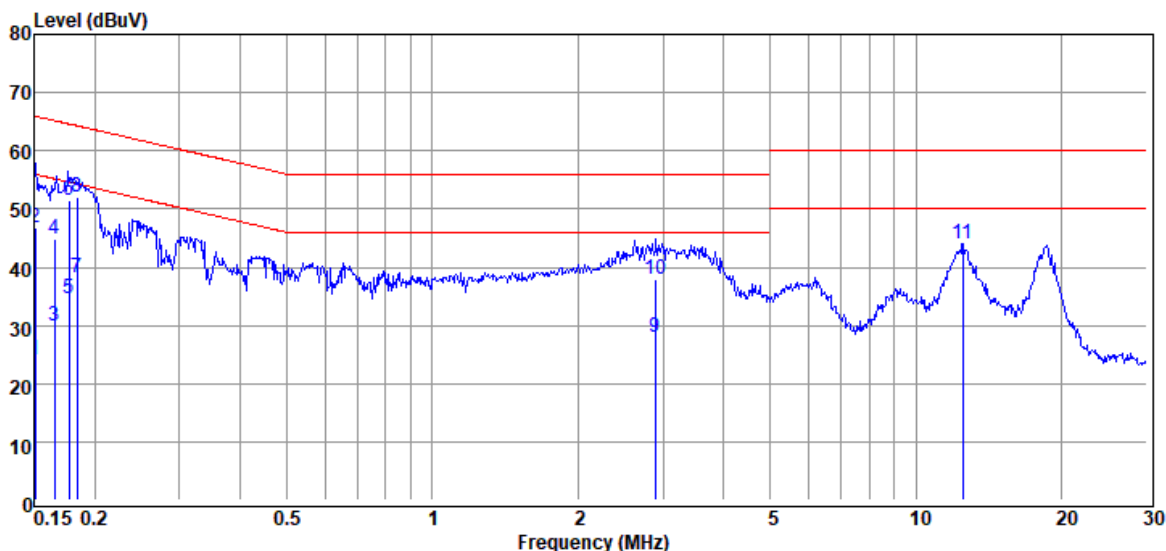
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Report Number :E2-2021-20046
Test Mode :System 擴音器
Power :110V/60Hz
Probe :L1
Note: :

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Average	13.92	10.22	24.14	55.94	-31.80
0.15	QP	36.54	10.22	46.76	65.94	-19.18
0.17	Average	19.73	10.22	29.95	55.19	-25.24
0.17	QP	34.50	10.22	44.72	65.19	-20.47
0.18	Average	24.42	10.22	34.64	54.63	-19.99
0.18	QP	41.40	10.22	51.62	64.63	-13.01
0.18	Average	27.86	10.22	38.08	54.30	-16.22
0.18	QP	41.93	10.22	52.15	64.30	-12.15
2.89	Average	17.36	10.47	27.83	46.00	-18.17
2.89	QP	27.55	10.47	38.02	56.00	-17.98
12.52	Peak	33.23	10.75	43.98	60.00	-16.02

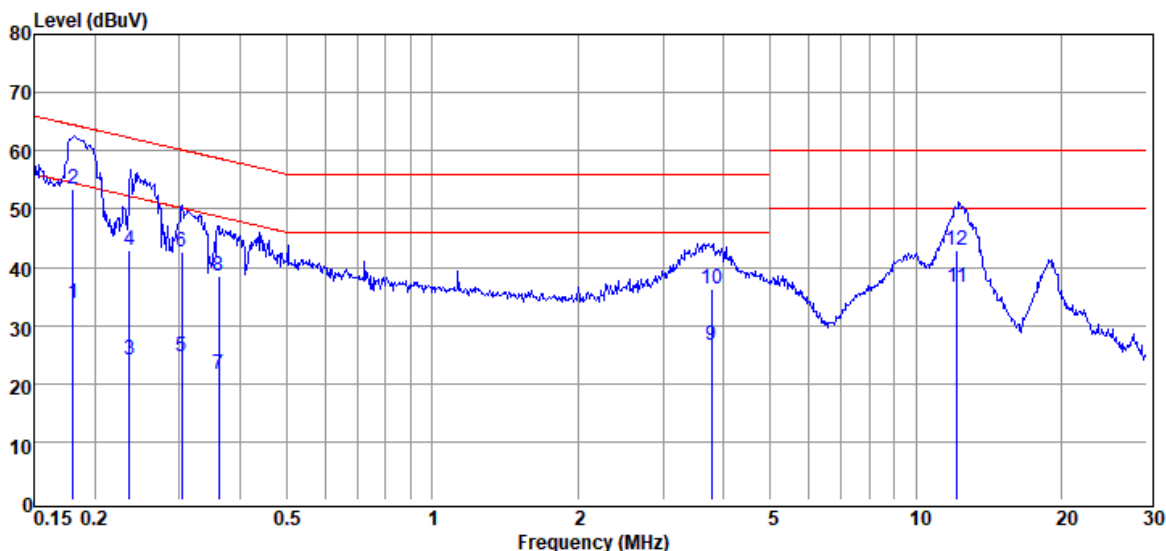
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Report Number :E2-2021-20046
Test Mode :System 擴音器
Power :110V/60Hz
Probe :N
Note:

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.1/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.18	Average	23.43	10.21	33.64	54.47	-20.83
0.18	QP	43.27	10.21	53.48	64.47	-10.99
0.24	Average	13.89	10.21	24.10	52.21	-28.11
0.24	QP	32.78	10.21	42.99	62.21	-19.22
0.30	Average	14.38	10.22	24.60	50.16	-25.56
0.30	QP	32.42	10.22	42.64	60.16	-17.52
0.36	Average	11.38	10.22	21.60	48.69	-27.09
0.36	QP	28.34	10.22	38.56	58.69	-20.13
3.78	Average	15.95	10.49	26.44	46.00	-19.56
3.78	QP	25.84	10.49	36.33	56.00	-19.67
12.14	Average	25.66	10.75	36.41	50.00	-13.59
12.14	QP	32.15	10.75	42.90	60.00	-17.10

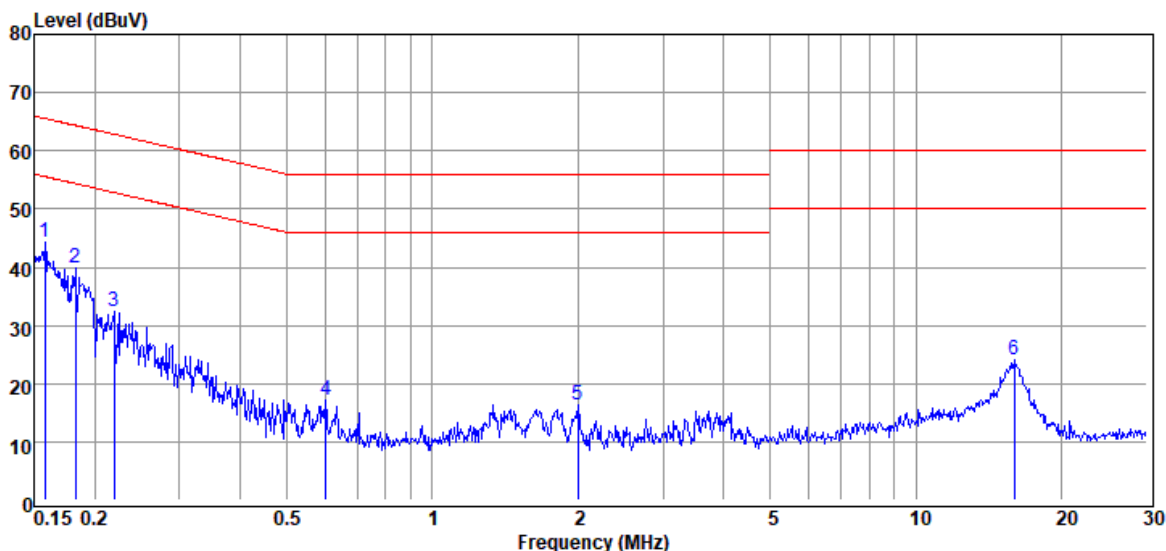
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Report Number :E2-2021-20046
Test Mode :System 充電組
Power :110V/60Hz
Probe :L1
Note: : Adapter:F2C60

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.0/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Peak	34.06	10.22	44.28	65.56	-21.28
0.18	Peak	29.73	10.22	39.95	64.37	-24.42
0.22	Peak	22.09	10.22	32.31	62.83	-30.52
0.60	Peak	7.00	10.29	17.29	56.00	-38.71
2.00	Peak	5.92	10.45	16.37	56.00	-39.63
15.97	Peak	13.25	10.80	24.05	60.00	-35.95

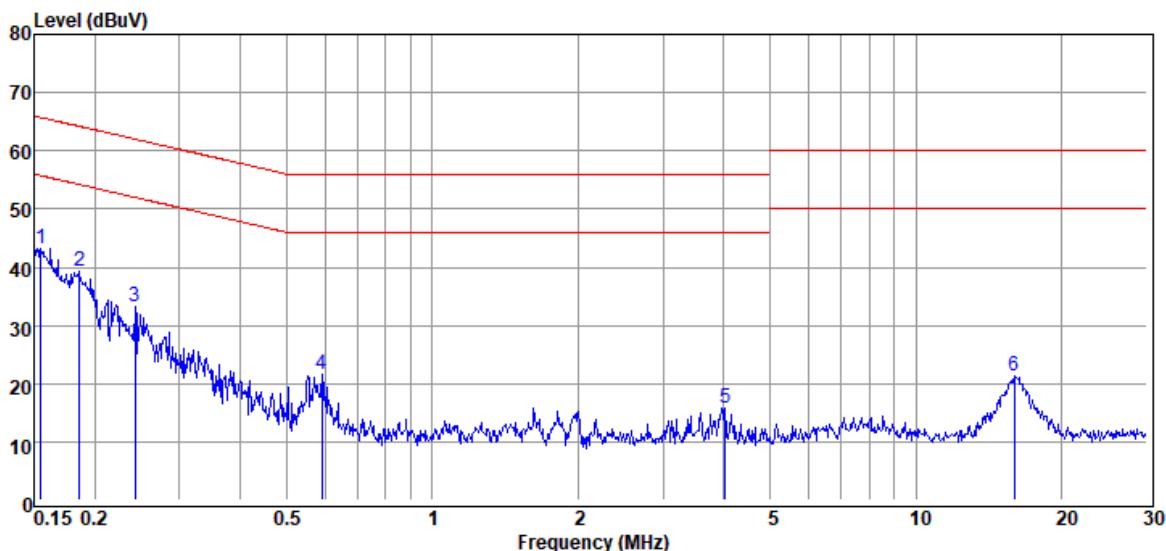
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Report Number :E2-2021-20046
Test Mode :System 充電組
Power :110V/60Hz
Probe :N
Note: : Adapter:F2C60

Test Site :Conduction Room C
Test Date :2021-03-08
Temp./Humi. :24.0/55
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.15	Peak	33.09	10.21	43.30	65.74	-22.44
0.19	Peak	29.14	10.21	39.35	64.20	-24.85
0.24	Peak	22.91	10.21	33.12	62.00	-28.88
0.59	Peak	11.42	10.26	21.68	56.00	-34.32
4.03	Peak	5.38	10.49	15.87	56.00	-40.13
15.97	Peak	10.54	10.81	21.35	60.00	-38.65

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10 不必要發射限制之量測

10.1 適用標準

依據NCC低功率射頻器材技術規範5.7.4節之要求，在5.15 GHz~5.35 GHz 及5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz。

在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP) $\leq$ 27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率(EIRP) $\leq$ 15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP) $\leq$ 10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -27 dBm/MHz；有關遮罩限制值詳圖1。

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

$E = 1000000 \cdot (30 \cdot EIRP)^{1/2} / 3$ uV/m

= 68.3dBuV/m

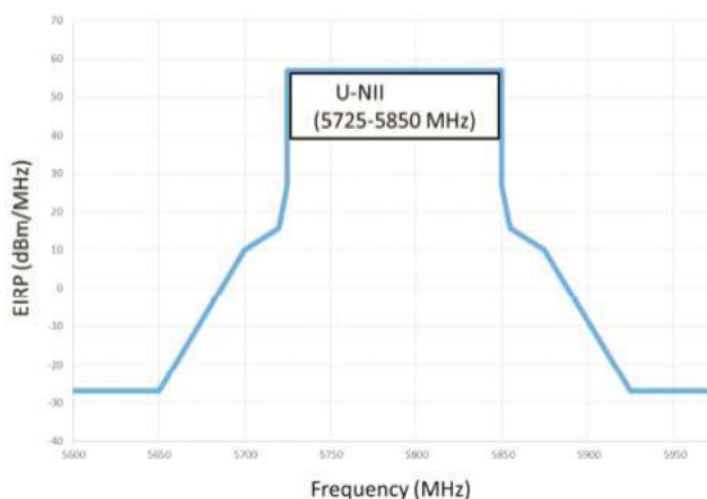


圖1

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10.2 量測方法

輻射場強量測

將待測物置於非金屬桌面，測試頻率1GHz以下時，使用桌高0.8 米，1GHz以上時，使用桌高1.5米，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

輻射傳導量測

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬為1MHz,視訊頻寬>=解析頻寬,將待測物天線增益offset至測試儀器。

頻率	RBW	VBW	Detector
9kHz~150kHz	300Hz	300Hz	Quasi-Peak
150kHz~30MHz	10kHz	10kHz	Quasi-Peak
1GHz以下	100kHz	100kHz	Peak / Quasi-Peak
1GHz以上	1MHz	3MHz	Peak
1GHz以上 Duty Cycle ≥ 98%	1MHz	10Hz	Average
1GHz以上 Duty Cycle < 98%	1MHz	1/T	Average

註: 9 kHz ~ 30MHz 之輻射量測皆低於限制值 20dB 以上，依據LP0002 6.13規定混附發射毋需記錄。

輻射量測僅放最差模式 (30MHz 以上)。

10.3 場強度之計算

場強之計算公式如

$$\text{結果值} = \text{讀值} + \text{校正因子}$$

其中校正因子為：

天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

量測結果請見下頁。

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

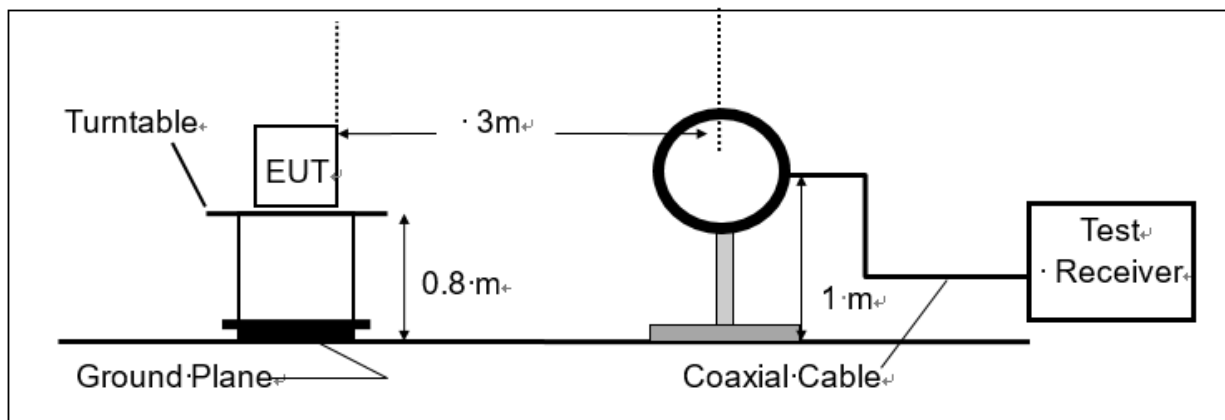
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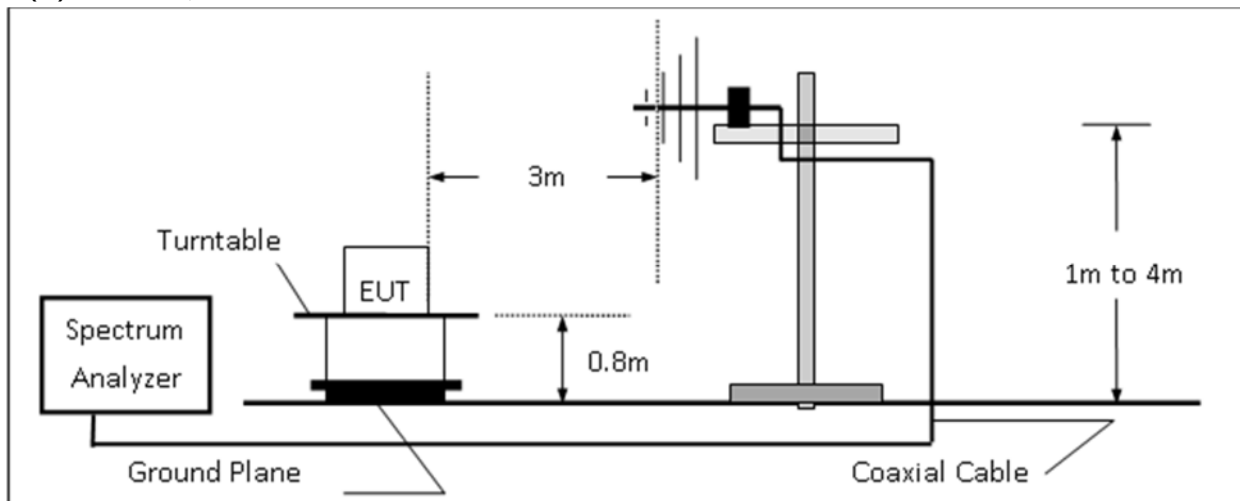
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10.4 輻射之測試配置

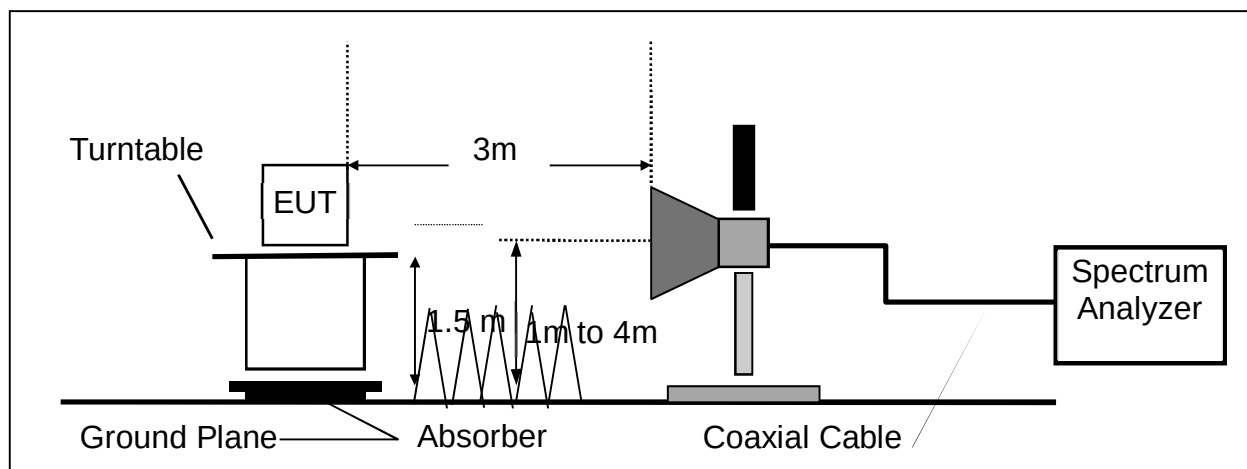
(A) 量測頻率低於 30MHz 以下之測試配置



(B) 量測頻率 30MHz 至 1000MHz 之測試配置



(C) 量測頻率 1000MHz 以上之測試配置

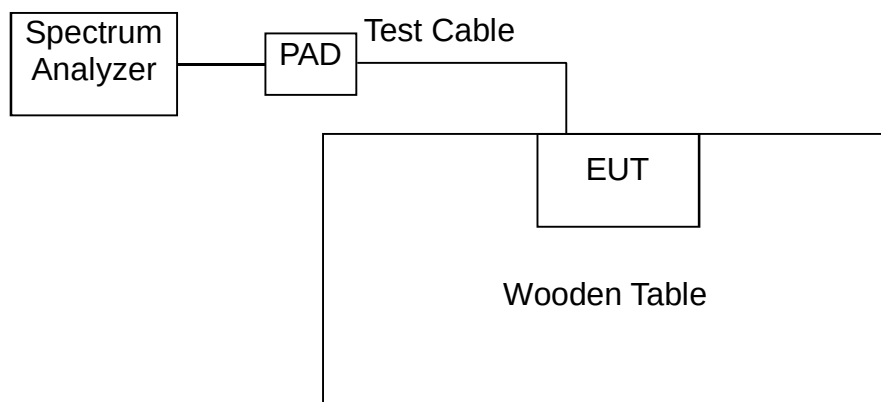


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(D) 傳導之測試配置圖



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10.5 場強輻射之量測結果

發射模式 1GHz 以下測試

Report Number :E2/2021/20047

Test Site :966 Chamber C

Operation Mode :5.8G 1.4M

Test Date :2021-03-12

Test Frequency :5784.5 MHz

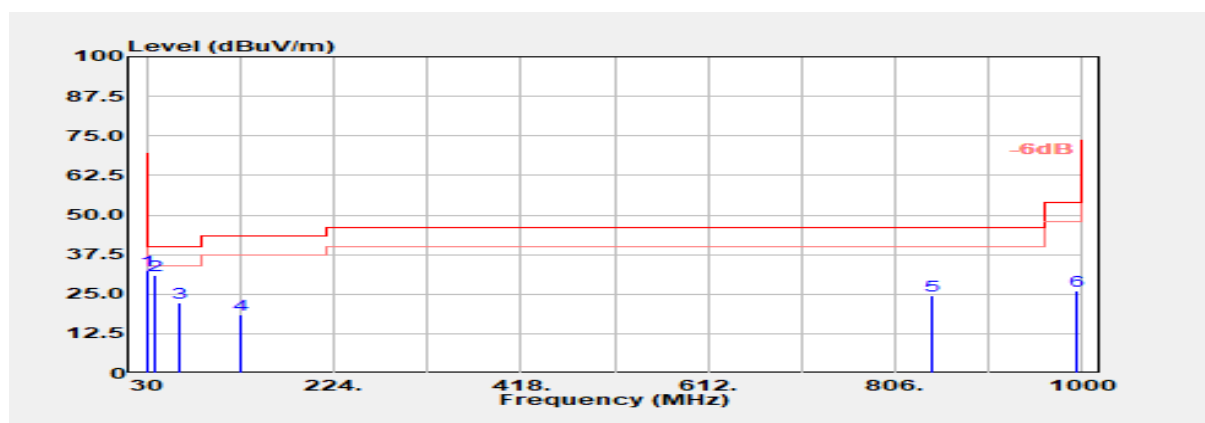
Temp./Humi. :20.8/65

Test Mode :Tx CH Mid

Antenna Pol. :Vertical

EUT Pol :H Plan

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.554	Peak	39.85	-7.29	32.56	40.00	-7.44
39.327	Peak	42.45	-11.58	30.87	40.00	-9.13
64.199	Peak	45.48	-23.33	22.16	40.00	-17.84
126.378	Peak	35.22	-16.78	18.44	43.50	-25.06
844.551	Peak	30.99	-6.47	24.52	46.00	-21.48
993.782	Peak	30.74	-4.86	25.88	54.00	-28.12

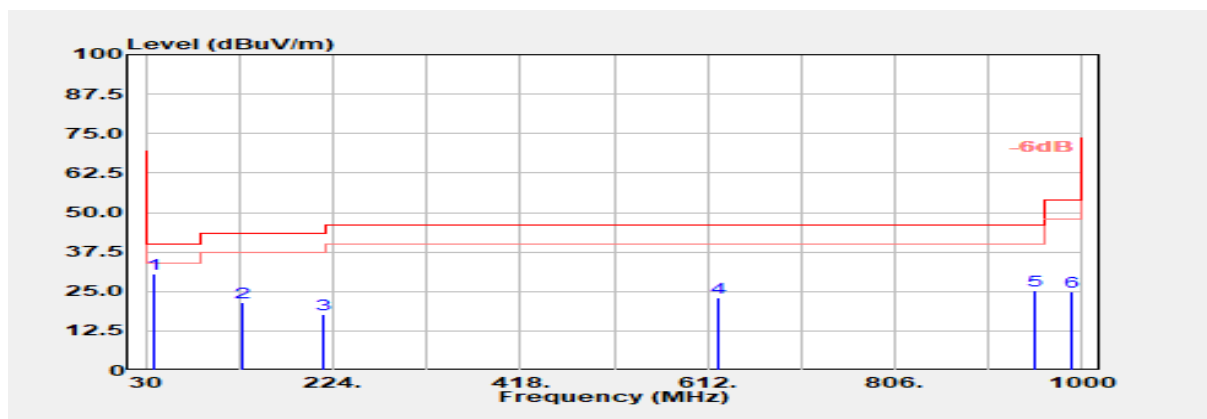
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5784.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :20.8/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	42.03	-11.58	30.46	40.00	-9.54
131.042	Peak	38.63	-16.98	21.65	43.50	-21.85
213.430	Peak	37.46	-19.61	17.84	43.50	-25.66
622.260	Peak	31.59	-8.66	22.93	46.00	-23.07
950.256	Peak	30.34	-5.21	25.13	46.00	-20.87
989.119	Peak	29.57	-4.85	24.72	54.00	-29.28

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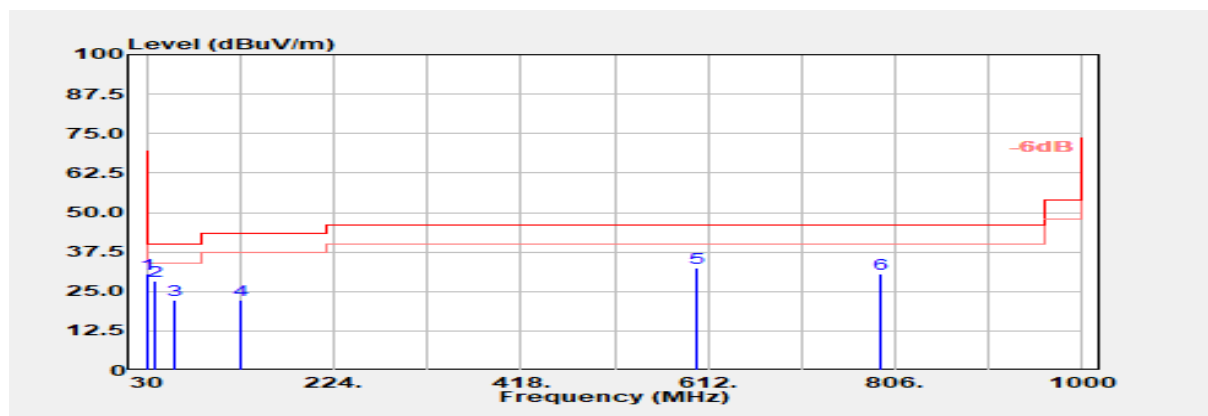
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Fully System

Report Number :E2/2021/20046
Operation Mode :System 夜航燈
Test Frequency :System 夜航燈
Test Mode :System 夜航燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.1/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.554	Peak	37.69	-7.29	30.40	40.00	-9.60
37.772	Peak	39.08	-10.79	28.28	40.00	-11.72
57.981	Peak	46.47	-24.03	22.45	40.00	-17.55
126.378	Peak	39.22	-16.78	22.44	43.50	-21.06
600.497	Peak	41.94	-9.44	32.50	46.00	-13.50
791.699	Peak	37.59	-7.03	30.56	46.00	-15.44

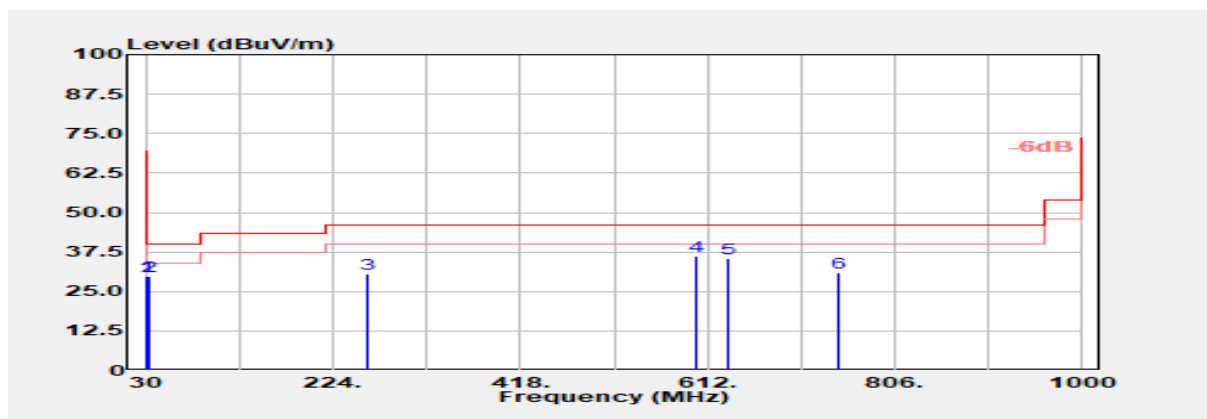
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Report Number :E2/2021/20046
Operation Mode :System 夜航燈
Test Frequency :System 夜航燈
Test Mode :System 夜航燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.1/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.554	Peak	37.13	-7.29	29.84	40.00	-10.16
34.663	Peak	38.68	-8.86	29.81	40.00	-10.19
258.510	Peak	45.70	-15.18	30.52	46.00	-15.48
600.497	Peak	45.65	-9.44	36.21	46.00	-9.79
633.141	Peak	43.83	-8.38	35.45	46.00	-10.55
746.619	Peak	38.75	-7.79	30.96	46.00	-15.04

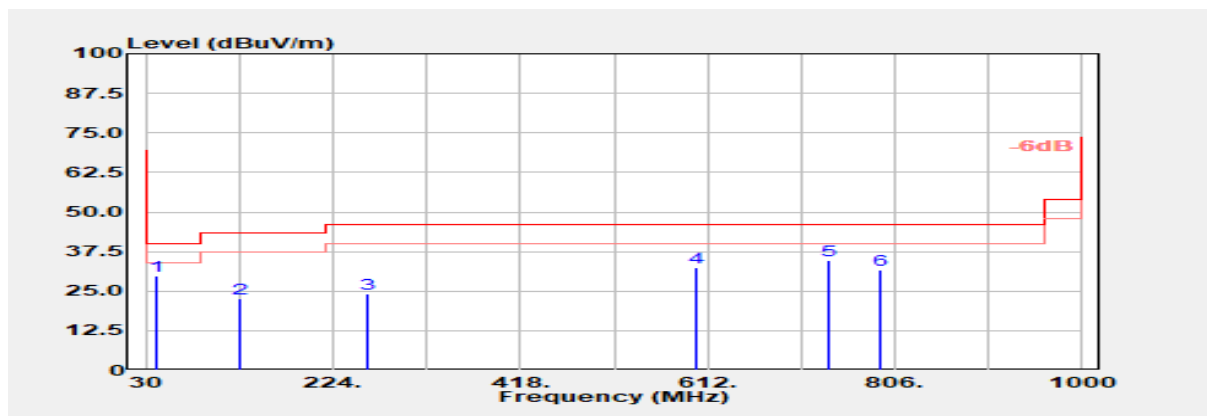
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Report Number :E2/2021/20046
Operation Mode :System RTK模組
Test Frequency :System RTK模組
Test Mode :System RTK模組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.881	Peak	42.46	-12.80	29.66	40.00	-10.34
126.378	Peak	39.28	-16.78	22.50	43.50	-21.00
258.510	Peak	39.21	-15.18	24.03	46.00	-21.97
600.497	Peak	41.87	-9.44	32.43	46.00	-13.57
737.292	Peak	41.91	-7.26	34.65	46.00	-11.35
791.699	Peak	38.77	-7.03	31.75	46.00	-14.25

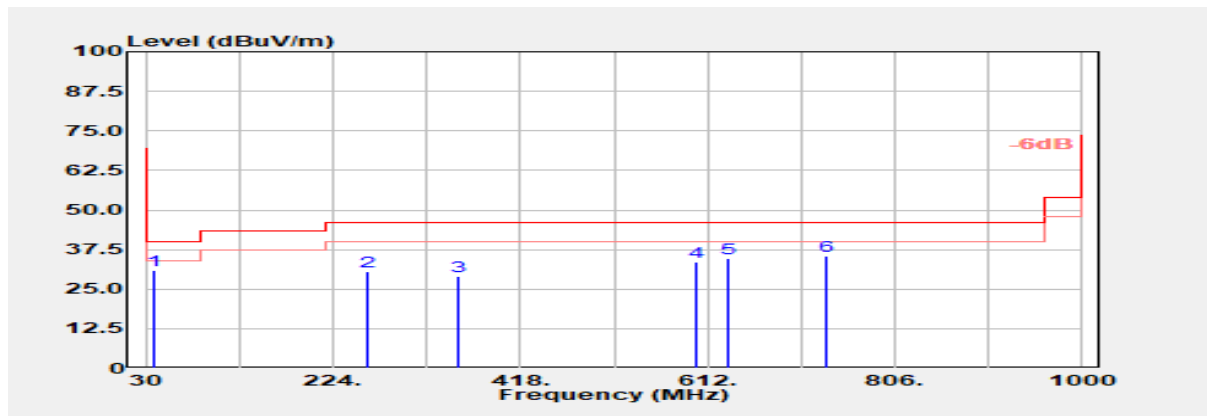
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Report Number :E2/2021/20046
Operation Mode :System RTK模組
Test Frequency :System RTK模組
Test Mode :System RTK模組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	42.53	-11.58	30.95	40.00	-9.05
258.510	Peak	45.84	-15.18	30.67	46.00	-15.33
354.888	Peak	43.10	-13.88	29.22	46.00	-16.78
600.497	Peak	43.05	-9.44	33.61	46.00	-12.39
633.141	Peak	43.18	-8.38	34.80	46.00	-11.20
734.183	Peak	42.79	-7.49	35.30	46.00	-10.70

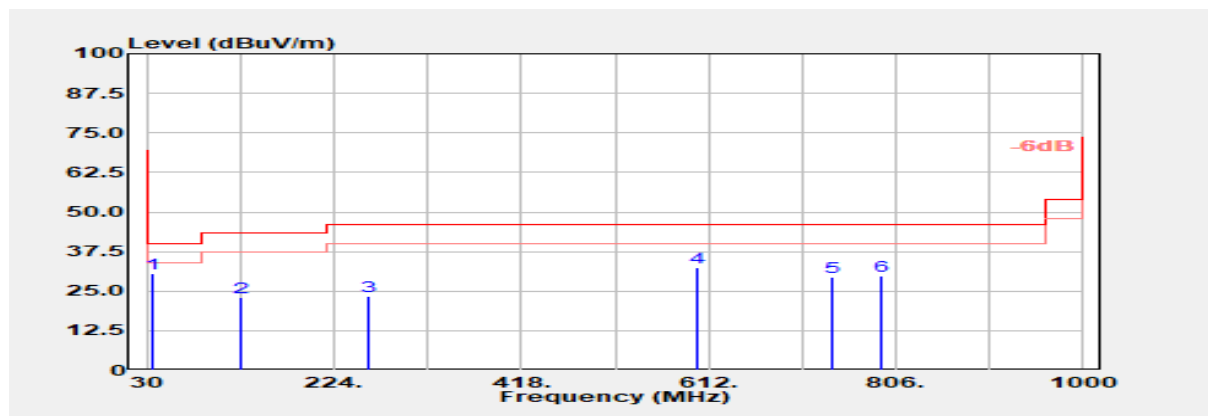
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Report Number :E2/2021/20046
Operation Mode :System 探照燈
Test Frequency :System 探照燈
Test Mode :System 探照燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.218	Peak	40.69	-10.03	30.66	40.00	-9.34
126.378	Peak	39.73	-16.78	22.95	43.50	-20.55
258.510	Peak	38.66	-15.18	23.48	46.00	-22.52
600.497	Peak	42.00	-9.44	32.56	46.00	-13.44
740.401	Peak	36.49	-7.17	29.31	46.00	-16.69
791.699	Peak	36.91	-7.03	29.88	46.00	-16.12

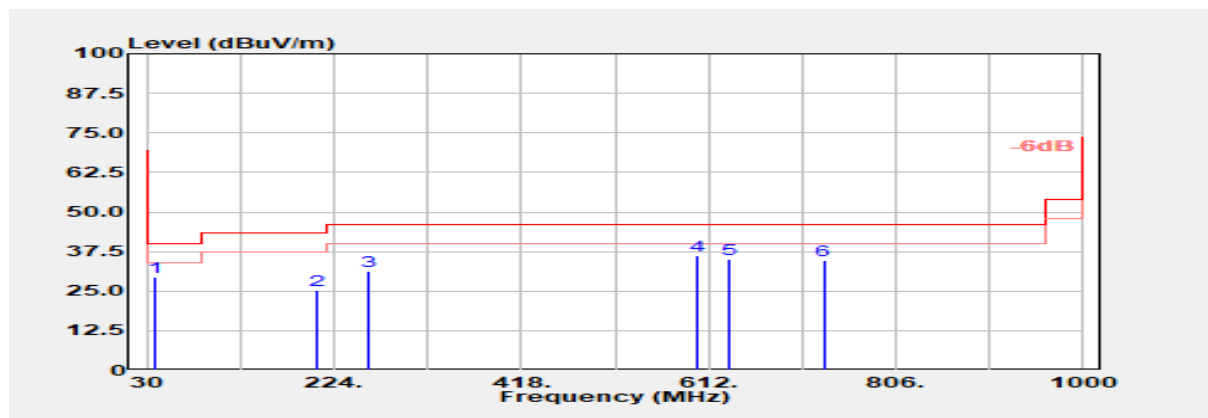
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Report Number :E2/2021/20046
Operation Mode :System 探照燈
Test Frequency :System 探照燈
Test Mode :System 探照燈
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :22.0/65
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
37.772	Peak	40.30	-10.79	29.51	40.00	-10.49
207.212	Peak	44.48	-19.30	25.18	43.50	-18.32
258.510	Peak	46.56	-15.18	31.39	46.00	-14.61
600.497	Peak	45.54	-9.44	36.10	46.00	-9.90
633.141	Peak	43.63	-8.38	35.26	46.00	-10.74
731.074	Peak	42.69	-7.87	34.83	46.00	-11.17

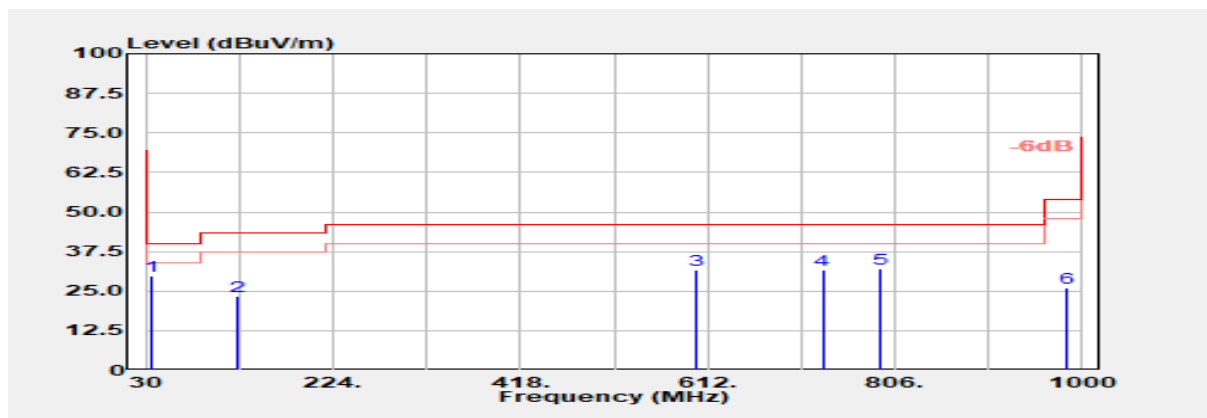
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Report Number :E2/2021/20046
Operation Mode :System 擴音器
Test Frequency :System 擴音器
Test Mode :System 擴音器
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
36.218	Peak	39.87	-10.03	29.84	40.00	-10.16
124.824	Peak	40.17	-16.80	23.37	43.50	-20.13
600.497	Peak	41.11	-9.44	31.66	46.00	-14.34
731.074	Peak	39.73	-7.87	31.86	46.00	-14.14
791.699	Peak	39.05	-7.03	32.03	46.00	-13.97
984.455	Peak	31.06	-5.18	25.88	54.00	-28.12

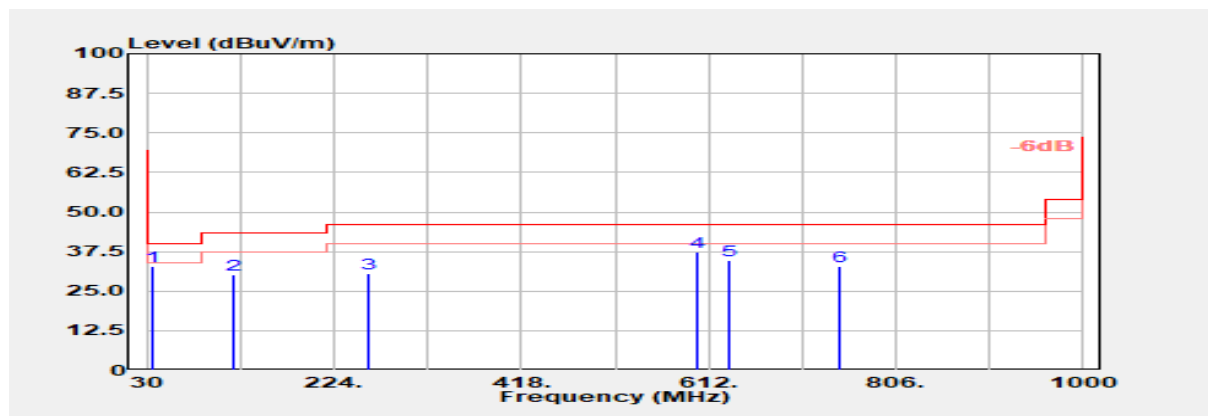
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Report Number :E2/2021/20046
Operation Mode :System 擴音器
Test Frequency :System 擴音器
Test Mode :System 擴音器
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.218	Peak	43.02	-10.03	32.99	40.00	-7.01
120.160	Peak	47.02	-17.01	30.01	43.50	-13.49
258.510	Peak	45.89	-15.18	30.71	46.00	-15.29
600.497	Peak	46.81	-9.44	37.36	46.00	-8.64
633.141	Peak	42.93	-8.38	34.55	46.00	-11.45
748.173	Peak	40.30	-7.54	32.76	46.00	-13.24

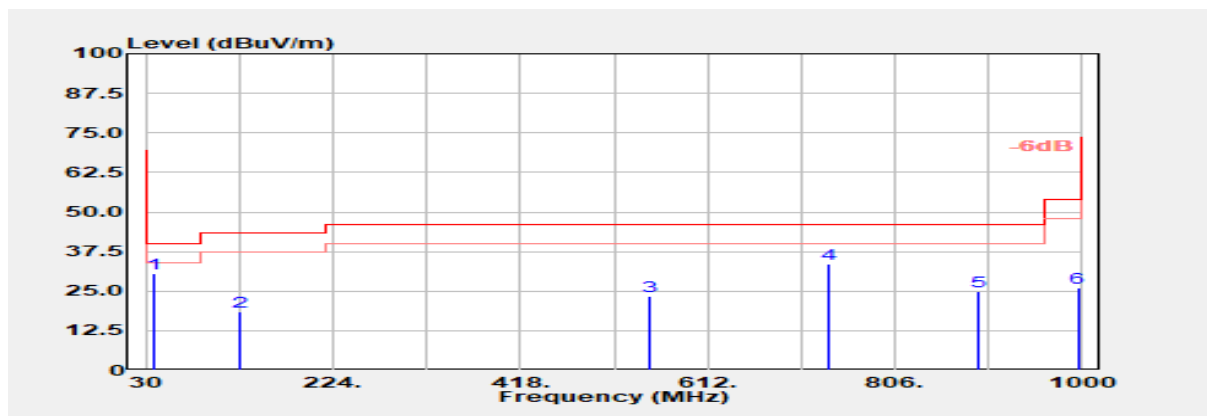
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Report Number :E2/2021/20046
Operation Mode :System 充電組
Test Frequency :System 充電組
Test Mode :System 充電組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	41.95	-11.58	30.38	40.00	-9.62
126.378	Peak	35.18	-16.78	18.40	43.50	-25.10
550.753	Peak	32.31	-8.79	23.51	46.00	-22.49
737.292	Peak	41.01	-7.26	33.75	46.00	-12.25
892.740	Peak	30.79	-5.82	24.97	46.00	-21.03
995.337	Peak	31.04	-4.90	26.14	54.00	-27.86

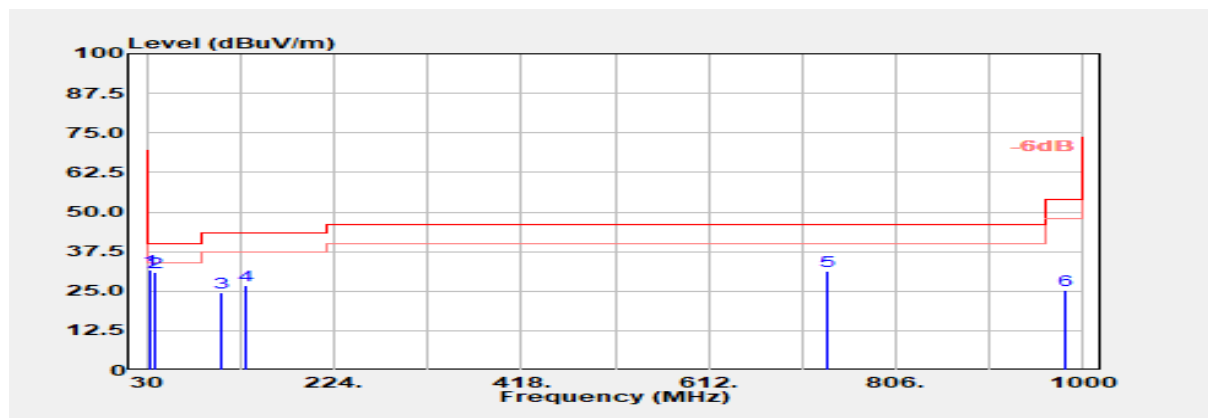
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Report Number :E2/2021/20046
Operation Mode :System 充電組
Test Frequency :System 充電組
Test Mode :System 充電組
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-09
Temp./Humi. :21.9/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.663	Peak	40.66	-8.86	31.80	40.00	-8.20
39.327	Peak	42.49	-11.58	30.92	40.00	-9.08
106.170	Peak	43.24	-18.69	24.55	43.50	-18.95
132.596	Peak	43.96	-16.99	26.97	43.50	-16.53
735.737	Peak	38.56	-7.35	31.21	46.00	-14.79
981.346	Peak	30.16	-4.87	25.29	54.00	-28.71

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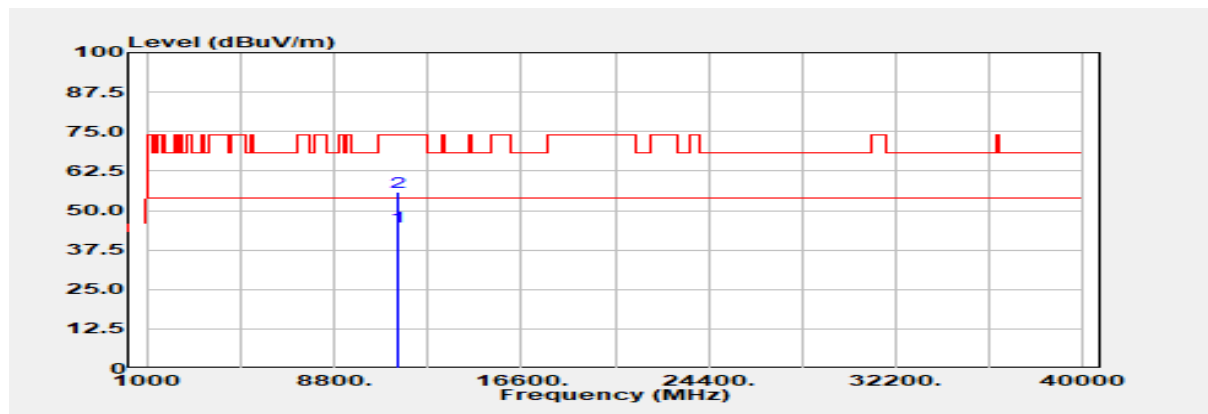
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發射模式 1GHz 以上測試

Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5728.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.9/68
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11457.000	Average	21.23	23.50	44.73	54.00	-9.27
11457.000	Peak	32.23	23.50	55.73	74.00	-18.27

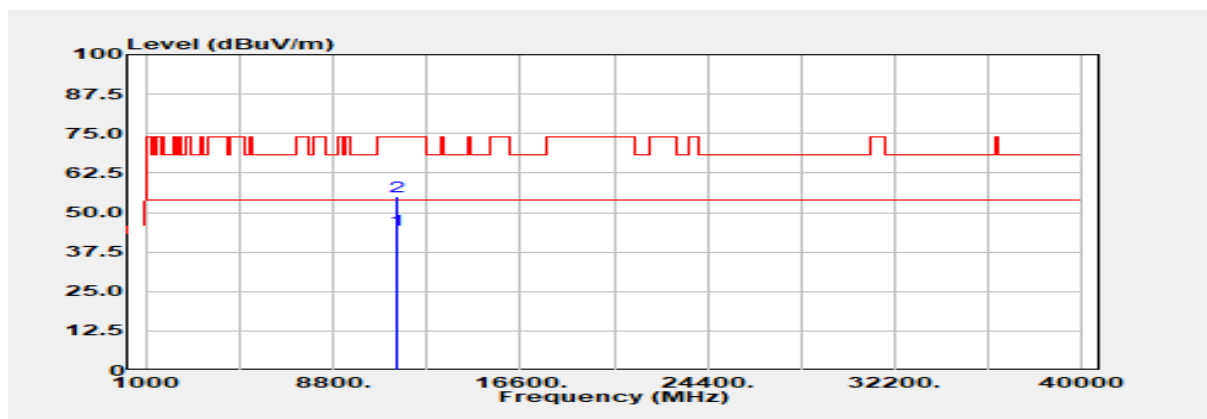
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5728.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.9/68
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11457.000	Average	21.08	23.50	44.58	54.00	-9.42
11457.000	Peak	31.66	23.50	55.16	74.00	-18.84

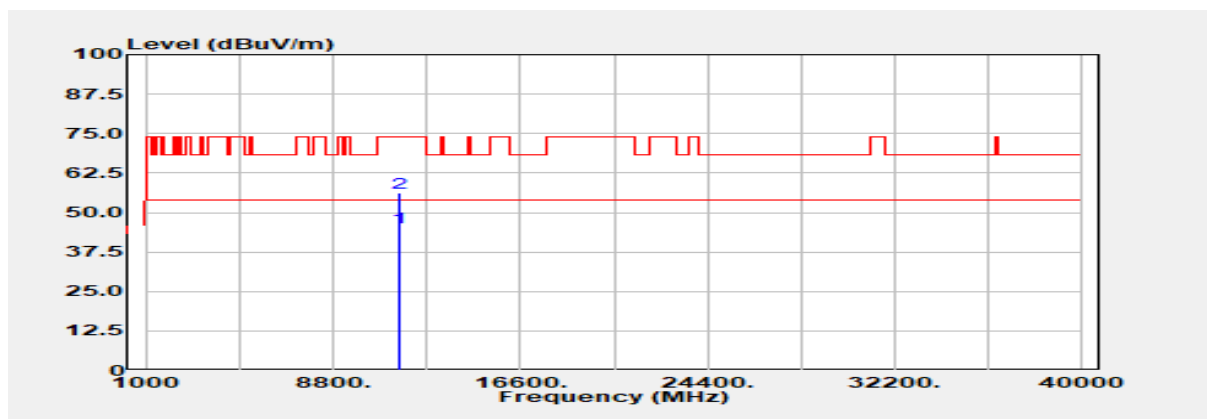
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5784.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.9/68
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11569.000	Average	21.45	23.92	45.37	54.00	-8.63
11569.000	Peak	32.30	23.92	56.22	74.00	-17.78

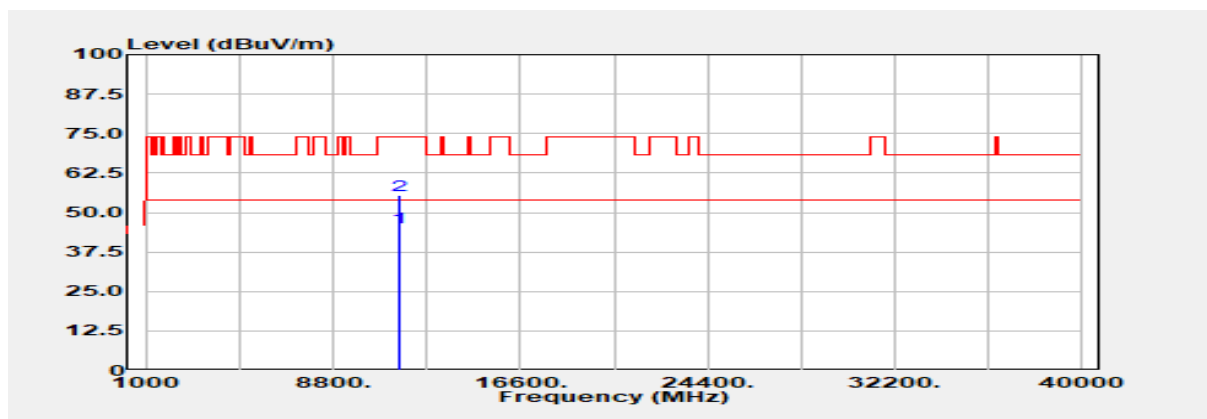
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5784.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.9/68
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11569.000	Average	21.53	23.92	45.45	54.00	-8.55
11569.000	Peak	31.53	23.92	55.45	74.00	-18.55

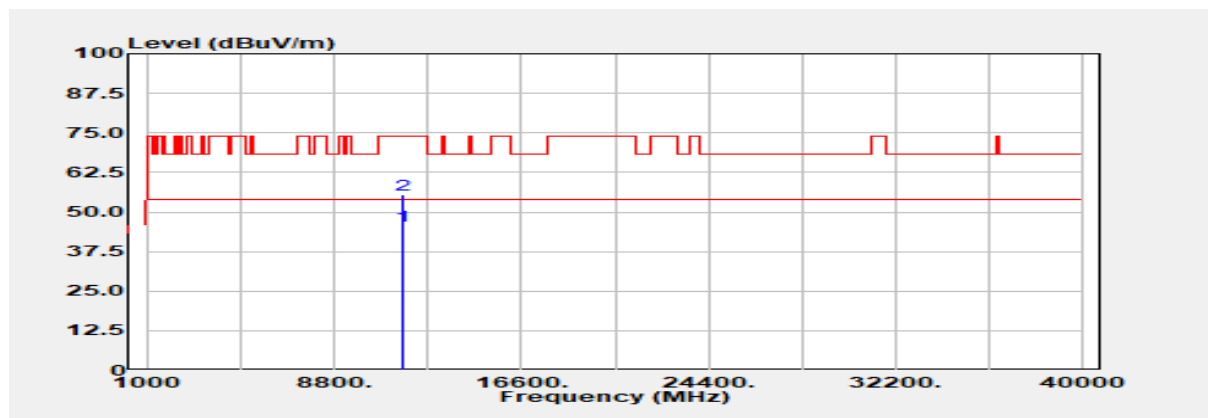
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5844.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.9/68
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11689.000	Average	21.31	24.35	45.66	54.00	-8.34
11689.000	Peak	30.94	24.35	55.30	74.00	-18.70

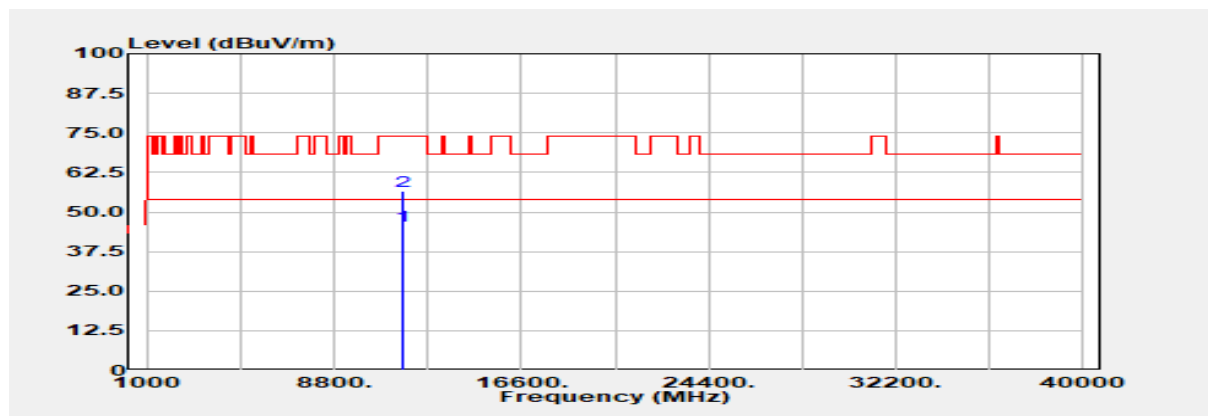
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5844.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :22.9/68
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11689.000	Average	21.20	24.35	45.55	54.00	-8.45
11689.000	Peak	32.11	24.35	56.47	74.00	-17.53

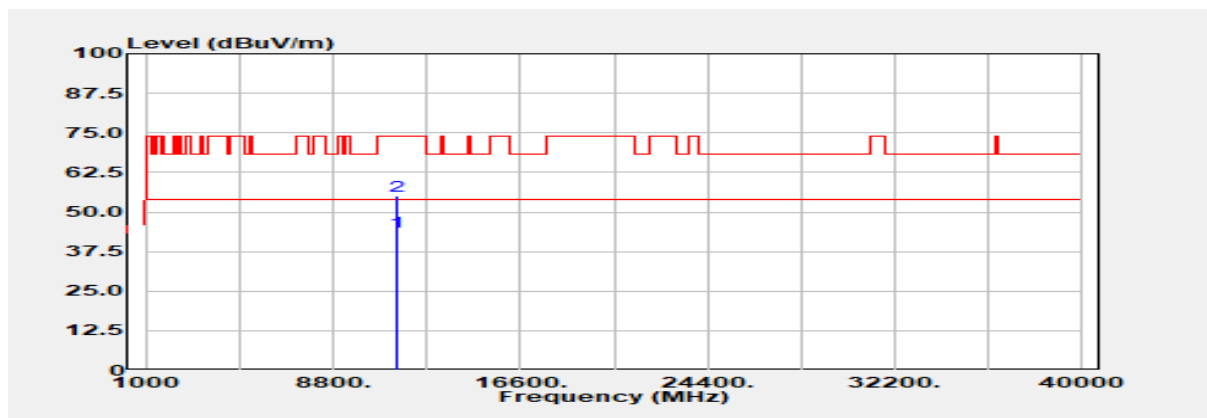
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5732.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.2/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11465.000	Average	20.35	23.43	43.78	54.00	-10.22
11465.000	Peak	31.85	23.43	55.28	74.00	-18.72

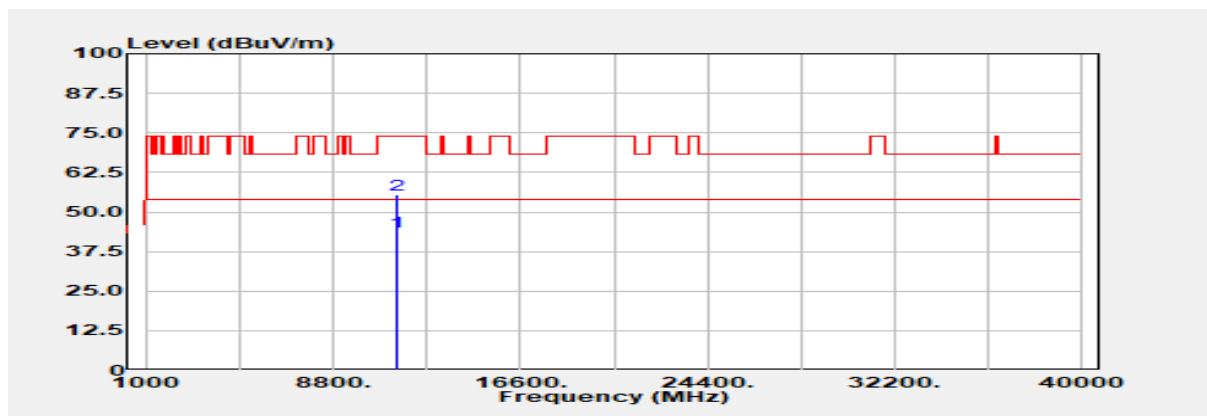
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5732.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.2/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11465.000	Average	20.22	23.43	43.65	54.00	-10.35
11465.000	Peak	32.17	23.43	55.60	74.00	-18.40

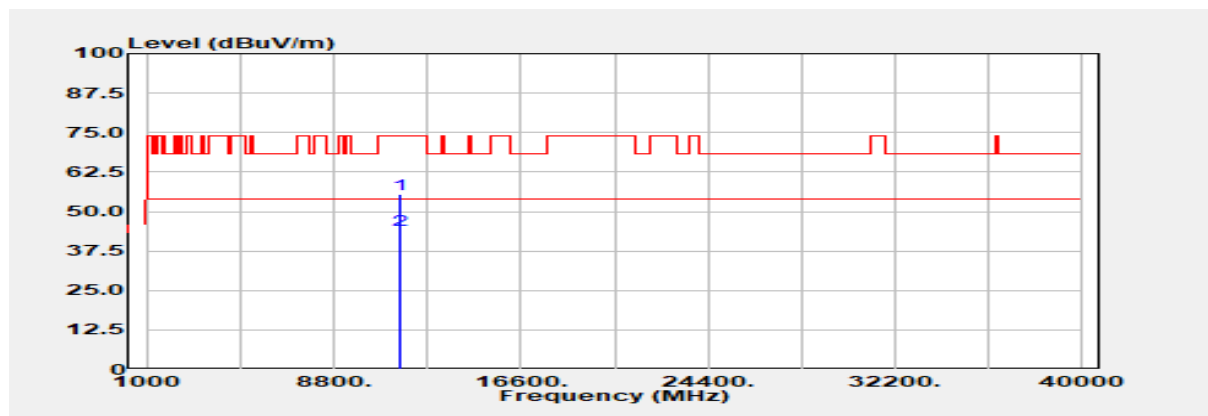
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5787.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.2/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11575.000	Average	20.19	23.99	44.19	54.00	-9.81
11575.000	Peak	31.58	23.99	55.57	74.00	-18.43

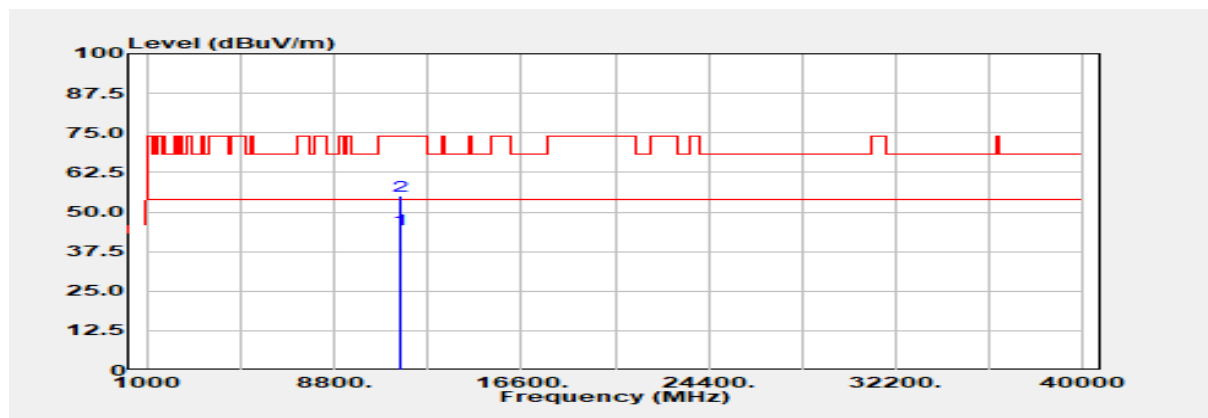
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5787.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.2/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11575.000	Average	20.38	23.99	44.37	54.00	-9.63
11575.000	Peak	31.15	23.99	55.14	74.00	-18.86

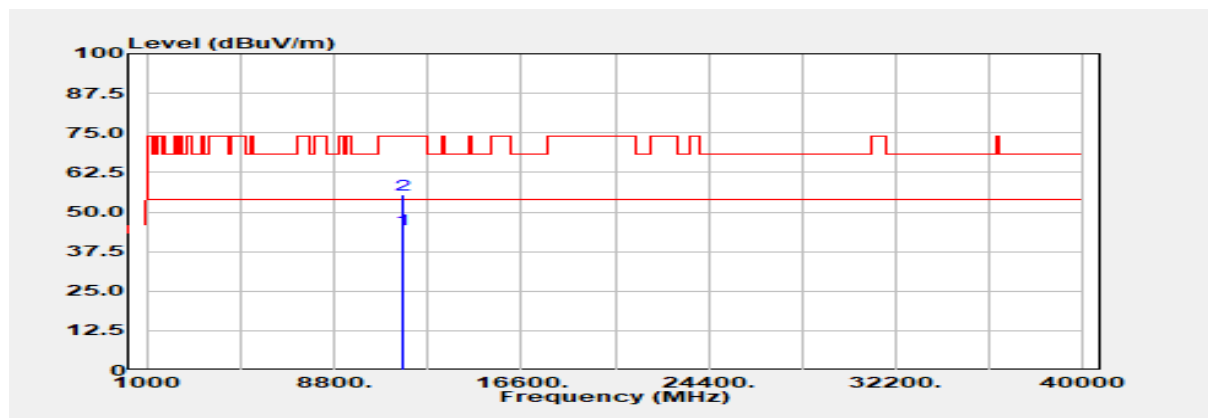
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5844.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.2/62
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11689.000	Average	20.10	24.35	44.45	54.00	-9.55
11689.000	Peak	31.30	24.35	55.65	74.00	-18.35

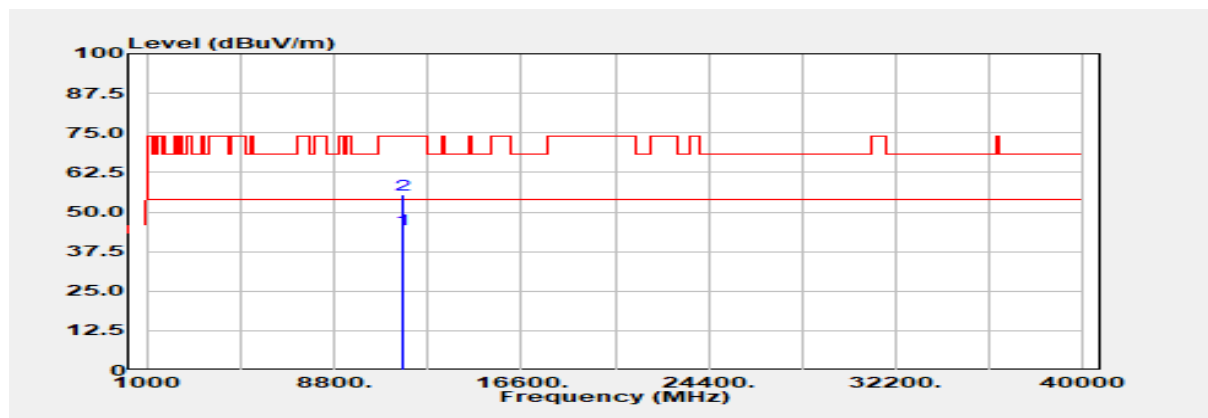
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5844.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.2/62
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11689.000	Average	20.13	24.35	44.48	54.00	-9.52
11689.000	Peak	31.02	24.35	55.38	74.00	-18.62

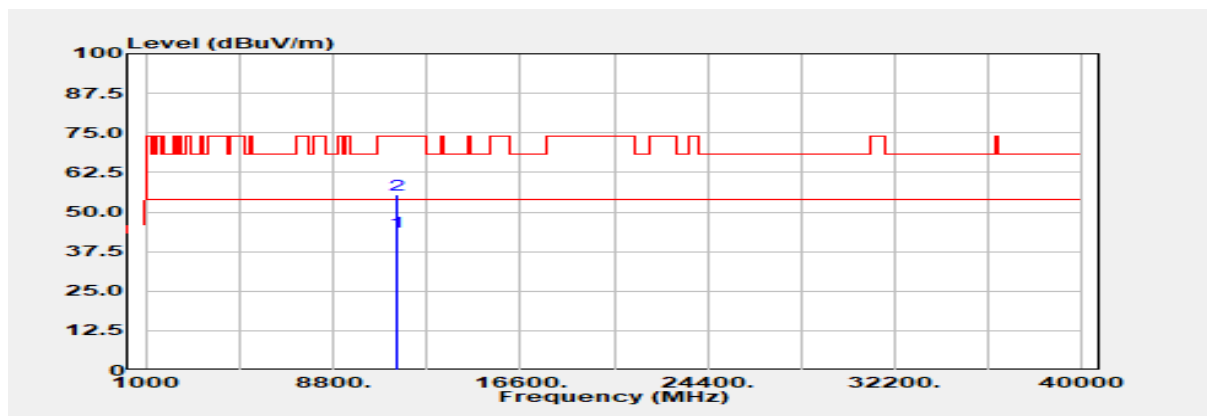
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5735.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.4/60
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11471.000	Average	20.23	23.37	43.60	54.00	-10.40
11471.000	Peak	32.25	23.37	55.63	74.00	-18.37

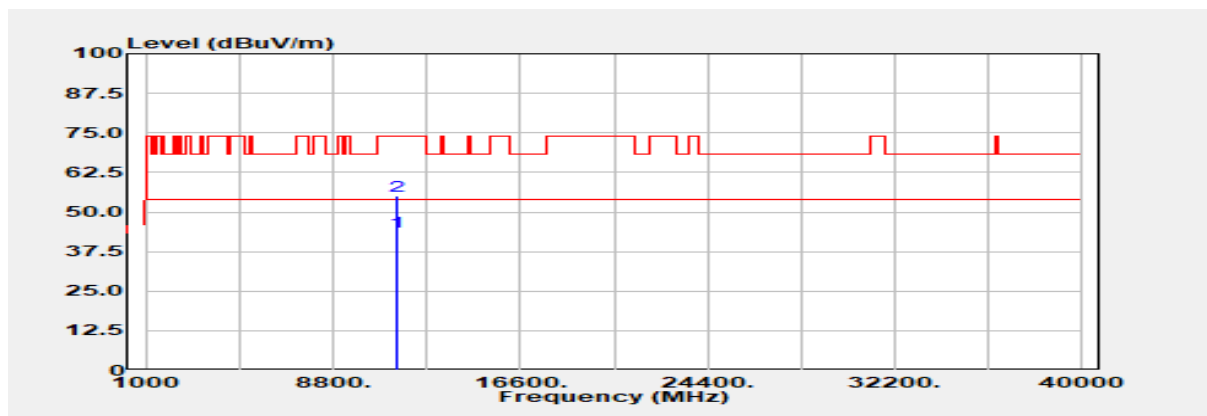
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5735.5 MHz
Test Mode :Tx CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.4/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



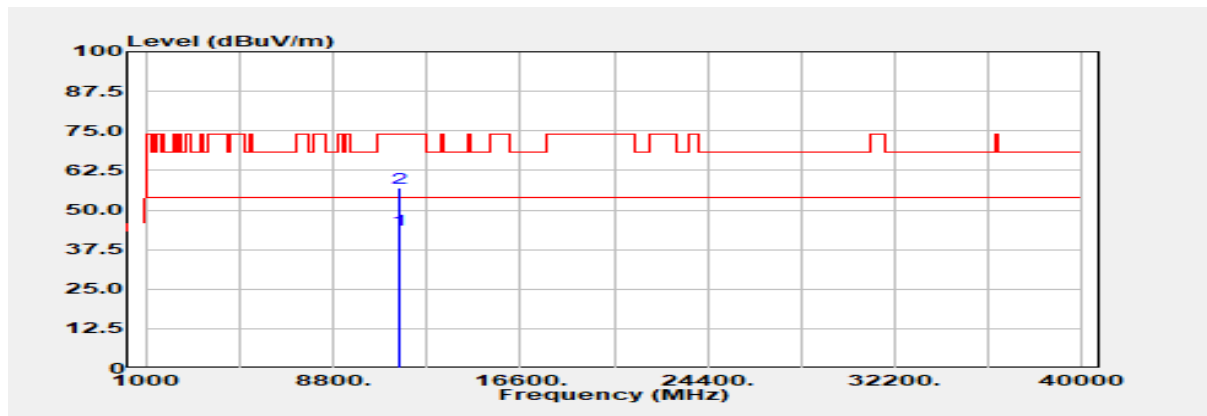
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11471.000	Average	20.39	23.37	43.76	54.00	-10.24
11471.000	Peak	31.86	23.37	55.24	74.00	-18.76

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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5787.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.4/60
Antenna Pol. :Vertical
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11575.000	Average	19.89	23.99	43.88	54.00	-10.12
11575.000	Peak	33.08	23.99	57.07	74.00	-16.93

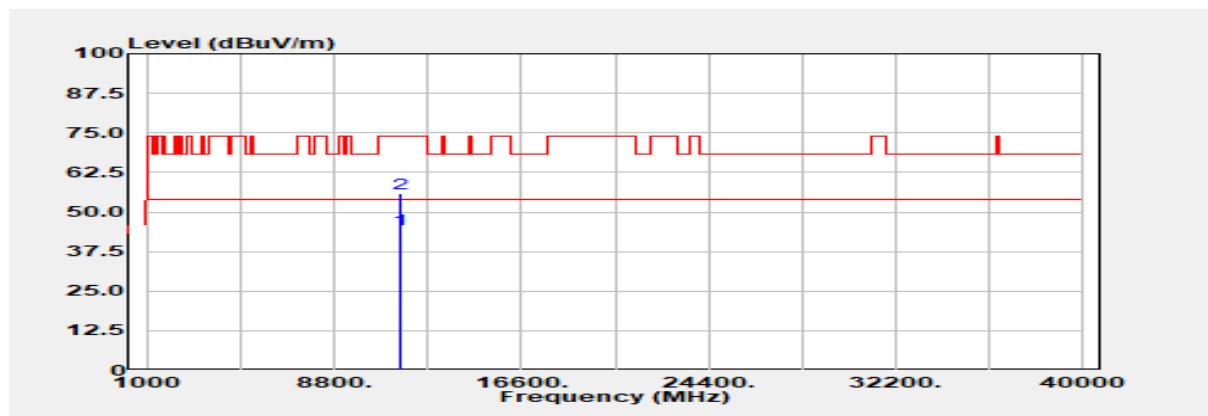
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5787.5 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.4/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11575.000	Average	20.36	23.99	44.35	54.00	-9.65
11575.000	Peak	31.98	23.99	55.97	74.00	-18.03

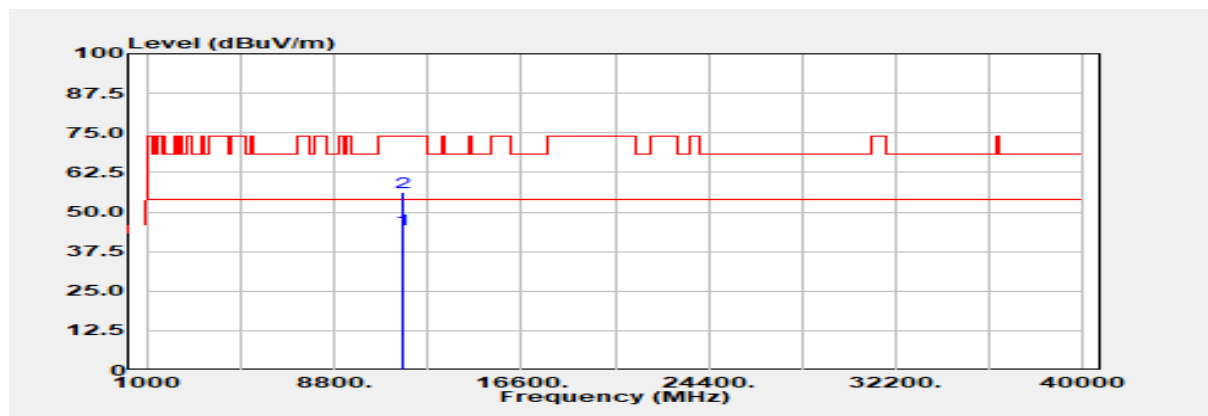
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5839.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.4/60
Antenna Pol. :Vertical
Engineer :Ashton Chiu



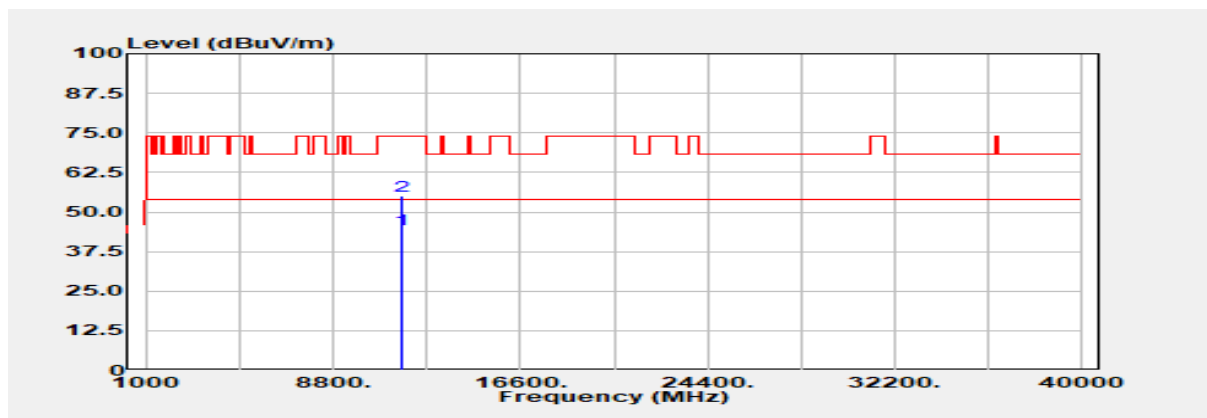
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11679.000	Average	20.26	24.27	44.53	54.00	-9.47
11679.000	Peak	32.13	24.27	56.40	74.00	-17.60

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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5839.5 MHz
Test Mode :Tx CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-12
Temp./Humi. :24.4/60
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11679.000	Average	20.15	24.27	44.42	54.00	-9.58
11679.000	Peak	30.91	24.27	55.18	74.00	-18.82

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接收模式 1GHz 以下測試 (最差模式)

Report Number :E2/2021/20047

Test Site :966 Chamber C

Operation Mode :5.8G 1.4M

Test Date :2021-03-04

Test Frequency :5784.5 MHz

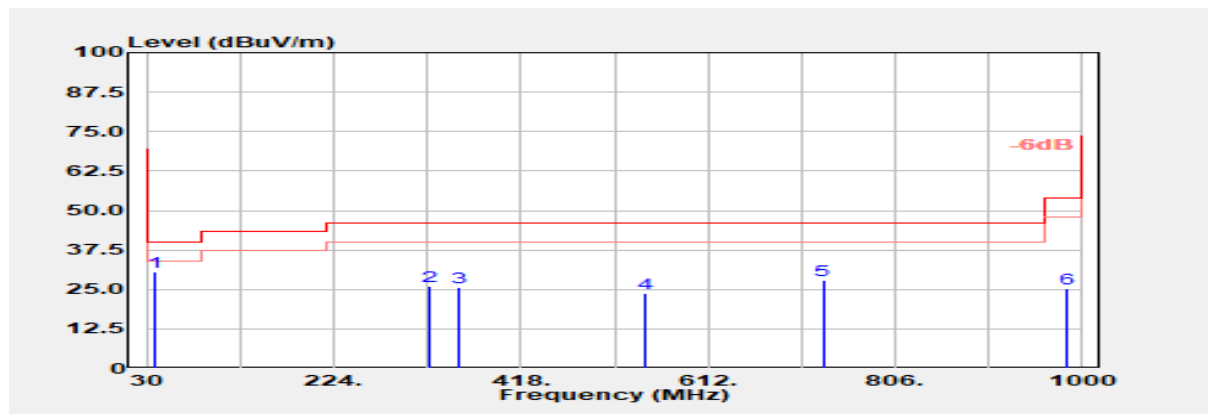
Temp./Humi. :20.8/65

Test Mode :RX CH MID

Antenna Pol. :Vertical

EUT Pol :H Plan

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
39.327	Peak	41.95	-11.58	30.38	40.00	-9.62
322.244	Peak	40.68	-14.80	25.88	46.00	-20.12
354.888	Peak	39.57	-13.88	25.69	46.00	-20.31
547.644	Peak	32.84	-8.97	23.87	46.00	-22.13
731.074	Peak	35.83	-7.87	27.96	46.00	-18.04
982.901	Peak	30.36	-5.03	25.33	54.00	-28.67

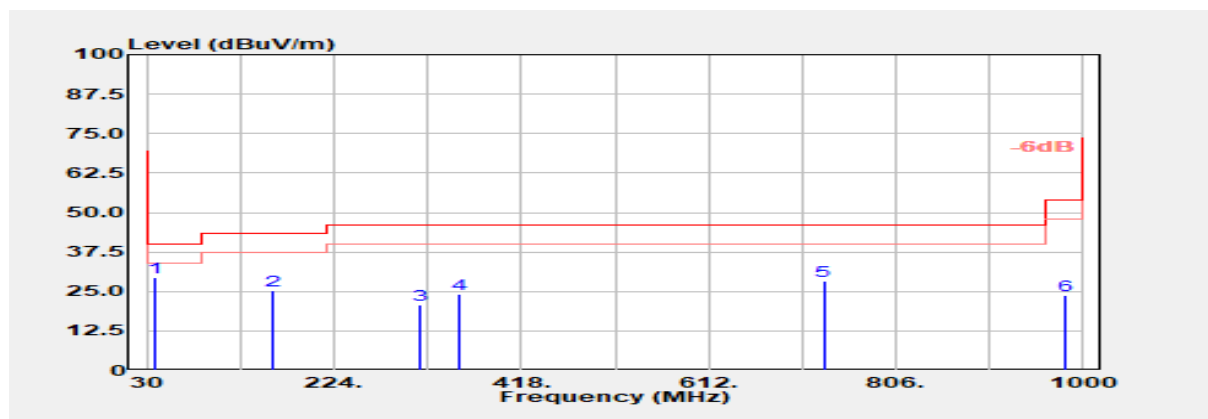
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5784.5 MHz
Test Mode :RX CH MID
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-04
Temp./Humi. :20.8/65
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.327	Peak	41.15	-11.58	29.57	40.00	-10.43
160.577	Peak	44.41	-19.24	25.17	43.50	-18.33
312.917	Peak	35.93	-15.31	20.63	46.00	-25.37
354.888	Peak	38.05	-13.88	24.17	46.00	-21.83
731.074	Peak	36.23	-7.87	28.37	46.00	-17.63
981.346	Peak	28.50	-4.87	23.63	54.00	-30.37

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接收模式 1GHz 以上測試 (最差模式)

Report Number :E2/2021/20047

Test Site :966 Chamber C

Operation Mode :5.8G 1.4M

Test Date :2021-03-06

Test Frequency :5784.5 MHz

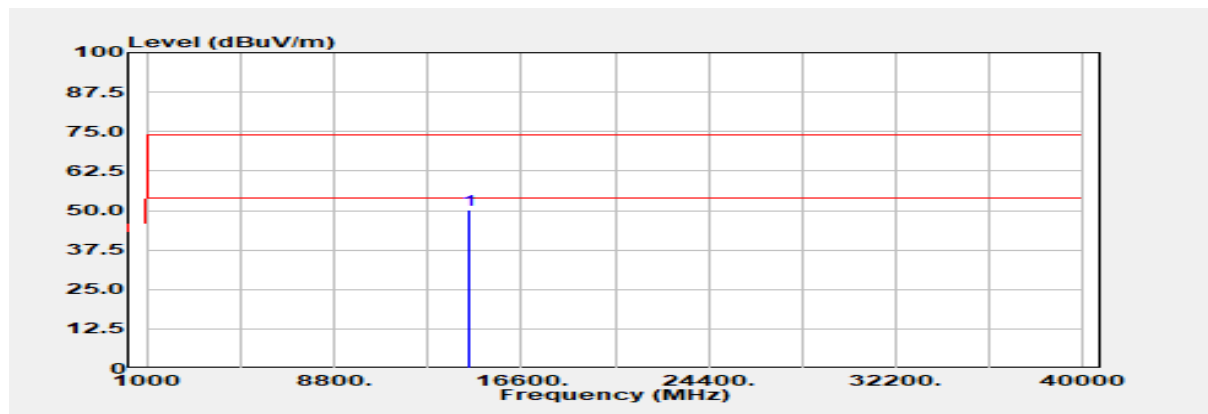
Temp./Humi. :24.5/59

Test Mode :Rx CH Mid

Antenna Pol. :Vertical

EUT Pol :H Plan

Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
14378.210	Peak	22.34	27.73	50.08	74.00	-23.92

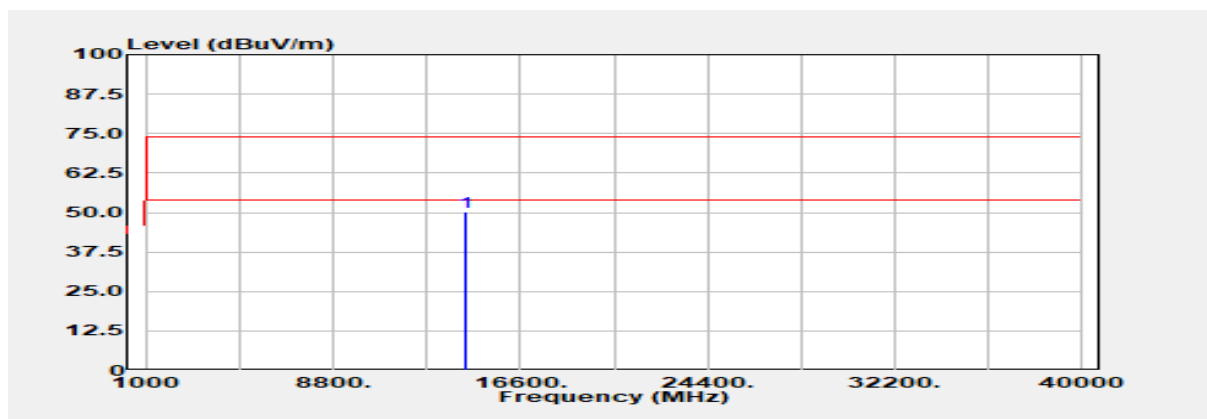
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5784.5 MHz
Test Mode :Rx CH Mid
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-06
Temp./Humi. :24.5/59
Antenna Pol. :Horizontal
Engineer :Ashton Chiu



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
14362.180	Peak	22.48	27.81	50.29	74.00	-23.71

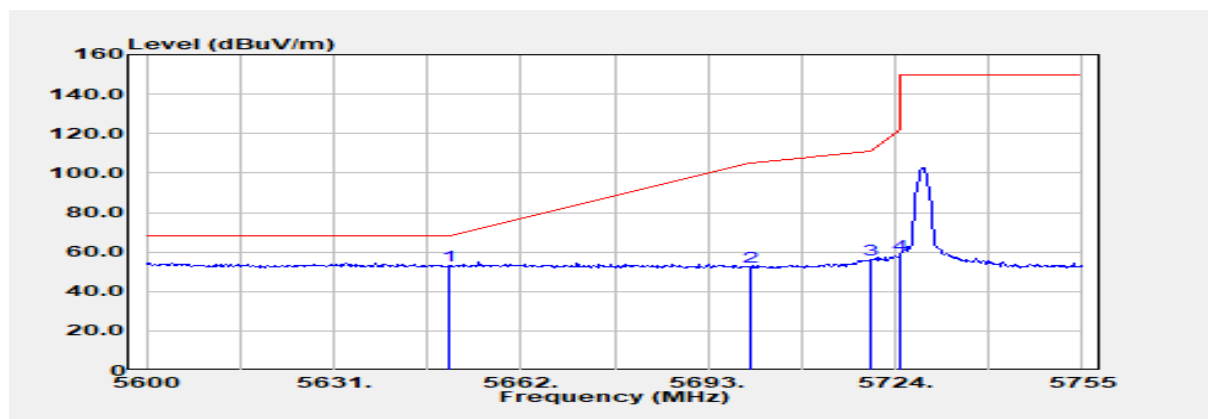
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10.6 開放頻帶邊緣量測結果

Report Number	:E2/2021/20047	Test Site	:966 Chamber C
Operation Mode	:5.8G 1.4M	Test Date	:2021-03-05
Test Frequency	:5728.5 MHz	Temp./Humi.	:22.5/64
Test Mode	:BE CH Low	Antenna Pol.	:Vertical
EUT Pol	:H Plan	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.46	10.51	52.96	68.20	-15.24
5700.000	Peak	42.09	10.41	52.49	105.20	-52.71
5720.000	Peak	45.42	10.76	56.18	110.80	-54.62
5725.000	Peak	48.16	10.62	58.78	122.20	-63.42

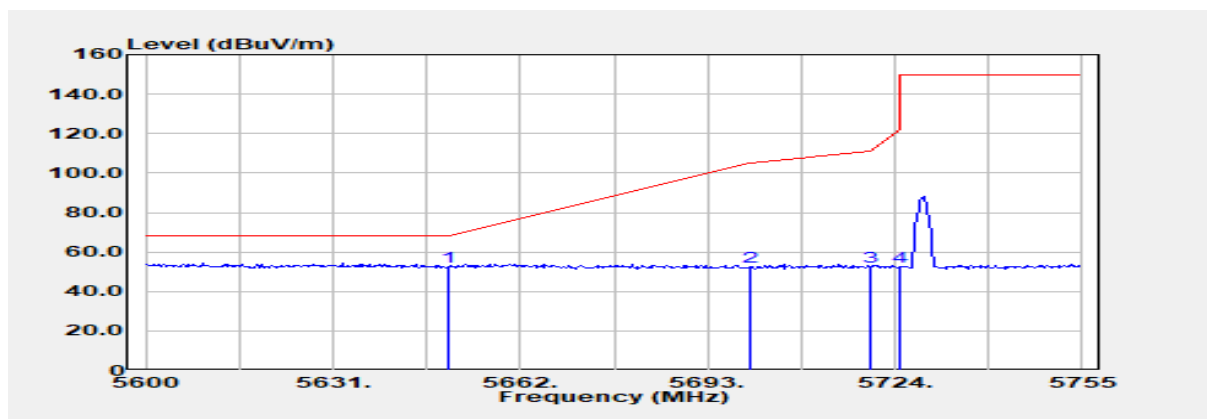
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5728.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.5/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5650.000	Peak	42.19	10.51	52.70	68.20	-15.50
5700.000	Peak	41.93	10.41	52.33	105.20	-52.87
5720.000	Peak	41.52	10.76	52.28	110.80	-58.52
5725.000	Peak	41.87	10.62	52.49	122.20	-69.71

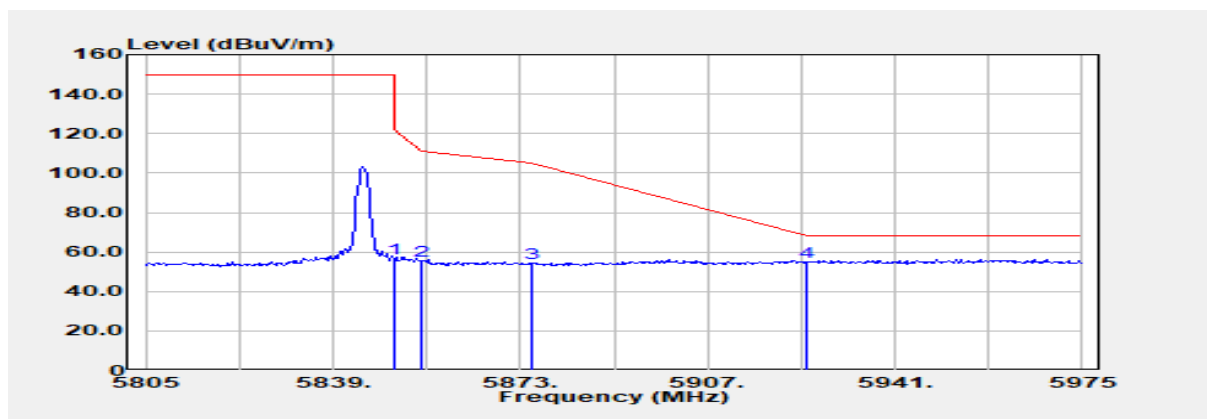
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5844.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.5/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	45.35	11.31	56.66	122.20	-65.54
5855.000	Peak	43.86	11.61	55.47	110.80	-55.33
5875.000	Peak	42.14	12.08	54.22	105.20	-50.98
5925.000	Peak	41.74	12.98	54.72	68.20	-13.48

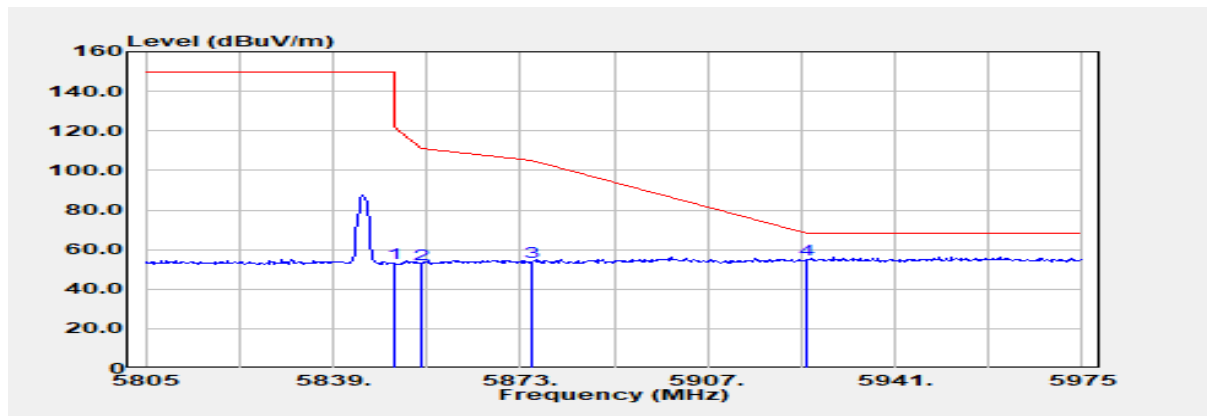
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Report Number :E2/2021/20047
Operation Mode :5.8G 1.4M
Test Frequency :5844.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.5/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	41.57	11.31	52.87	122.20	-69.33
5855.000	Peak	40.98	11.61	52.59	110.80	-58.21
5875.000	Peak	41.82	12.08	53.90	105.20	-51.30
5925.000	Peak	42.09	12.98	55.07	68.20	-13.13

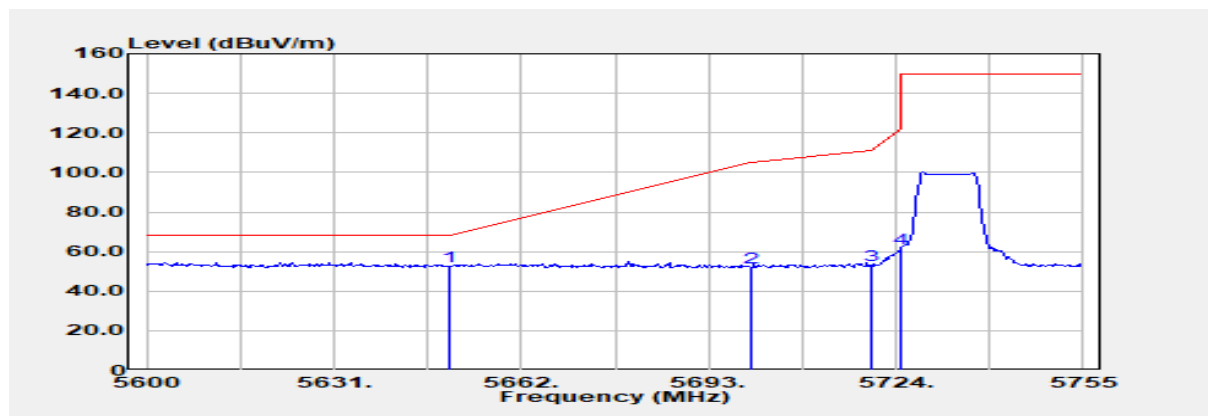
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5732.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.6/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	41.88	10.51	52.39	68.20	-15.81
5700.000	Peak	41.75	10.41	52.16	105.20	-53.04
5720.000	Peak	42.21	10.76	52.97	110.80	-57.83
5725.000	Peak	50.70	10.62	61.32	122.20	-60.88

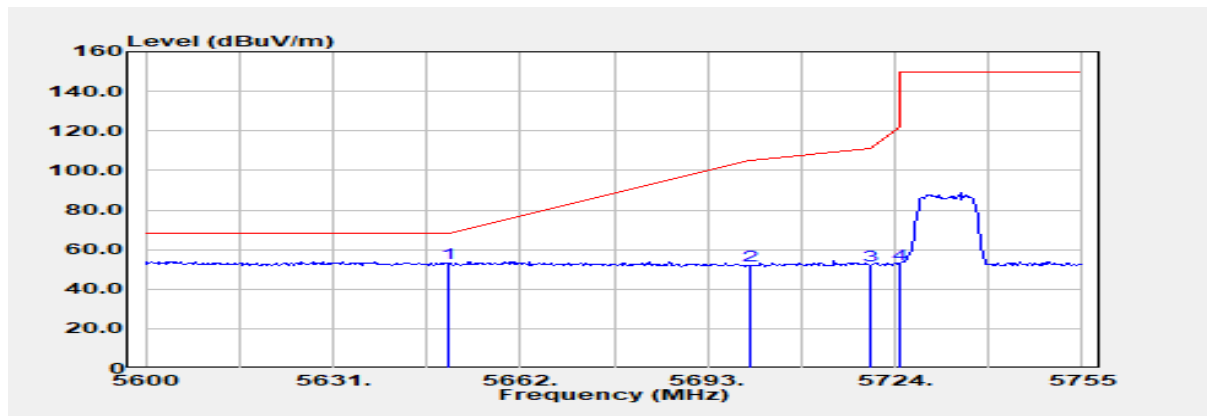
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5732.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.6/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.41	10.51	52.92	68.20	-15.28
5700.000	Peak	41.25	10.41	51.66	105.20	-53.54
5720.000	Peak	41.43	10.76	52.20	110.80	-58.60
5725.000	Peak	42.19	10.62	52.82	122.20	-69.38

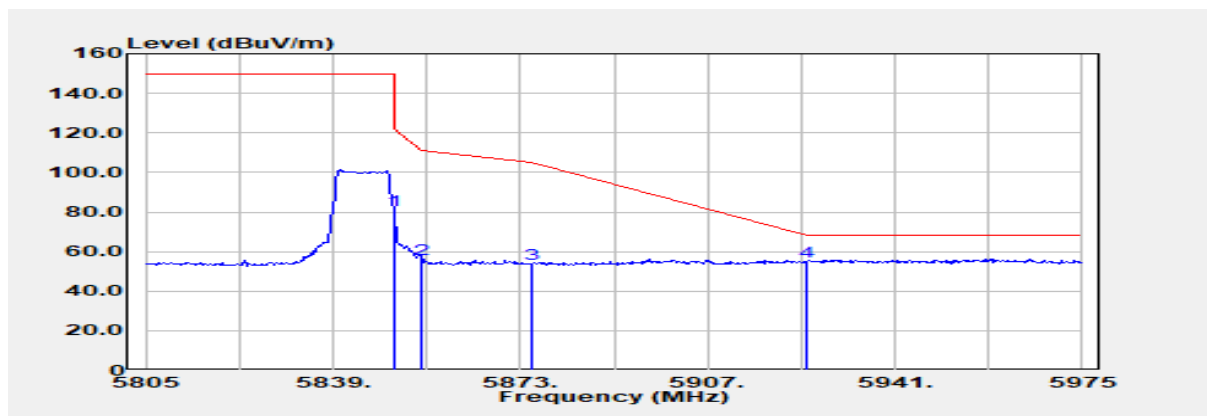
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5844.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.6/64
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.000	Peak	69.30	11.31	80.61	122.20	-41.59
5855.000	Peak	44.41	11.61	56.02	110.80	-54.78
5875.000	Peak	41.52	12.08	53.60	105.20	-51.60
5925.000	Peak	42.20	12.98	55.18	68.20	-13.02

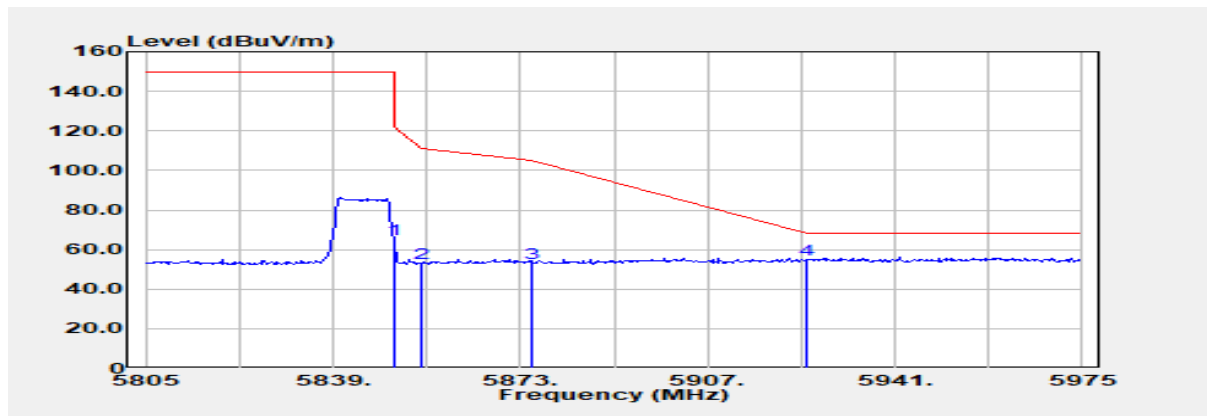
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Report Number :E2/2021/20047
Operation Mode :5.8G 10M
Test Frequency :5844.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.6/64
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	54.18	11.31	65.49	122.20	-56.71
5855.000	Peak	41.49	11.61	53.10	110.80	-57.70
5875.000	Peak	41.30	12.08	53.38	105.20	-51.82
5925.000	Peak	42.06	12.98	55.04	68.20	-13.16

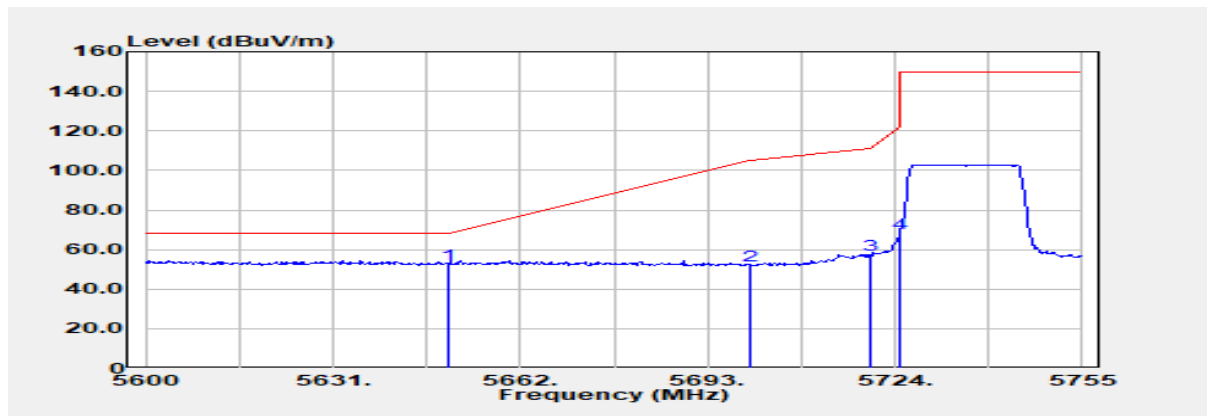
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5735.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-05
Temp./Humi. :22.7/65
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.09	10.51	52.60	68.20	-15.60
5700.000	Peak	41.44	10.41	51.84	105.20	-53.36
5720.000	Peak	46.61	10.76	57.37	110.80	-53.43
5725.000	Peak	57.44	10.62	68.06	122.20	-54.14

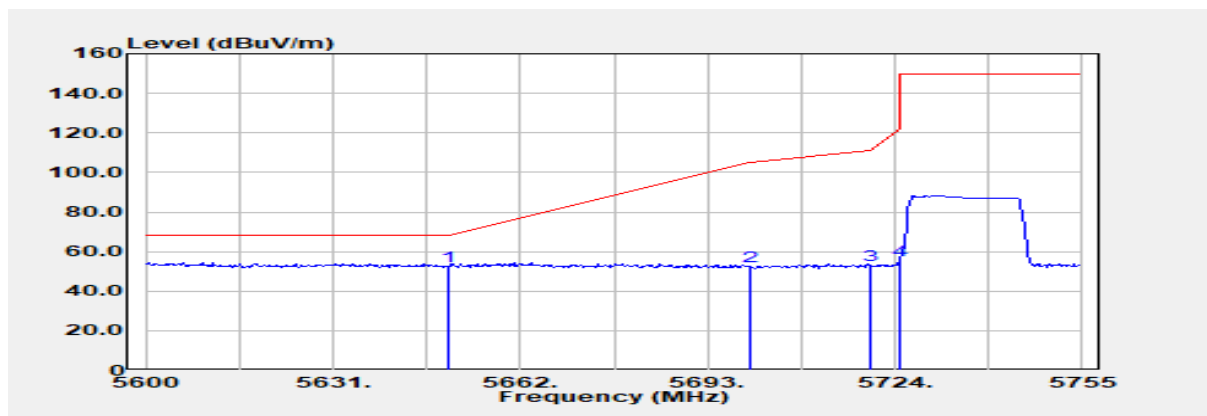
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5735.5 MHz
Test Mode :BE CH Low
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-06
Temp./Humi. :22.8/66
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	42.15	10.51	52.66	68.20	-15.54
5700.000	Peak	41.93	10.41	52.33	105.20	-52.87
5720.000	Peak	42.40	10.76	53.16	110.80	-57.64
5725.000	Peak	44.90	10.62	55.52	122.20	-66.68

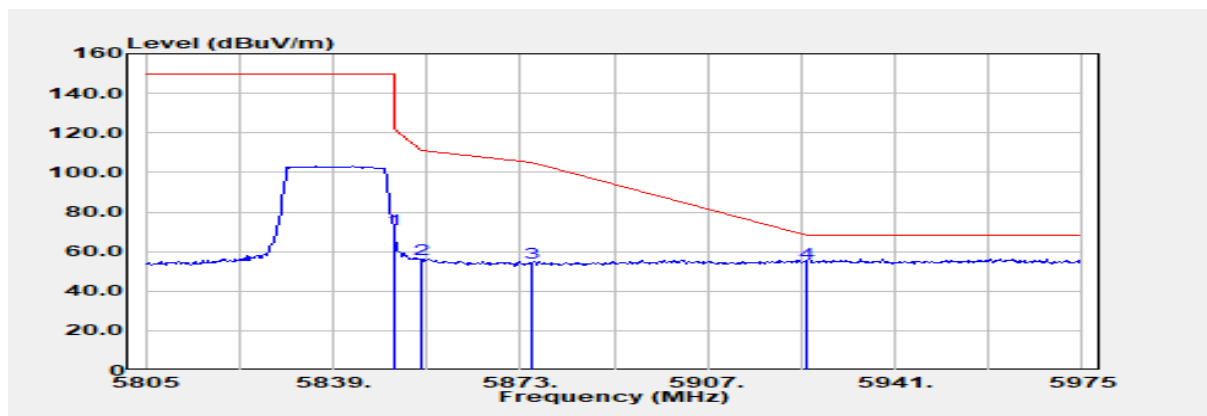
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5839.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-06
Temp./Humi. :22.9/68
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	60.14	11.31	71.45	122.20	-50.75
5855.000	Peak	44.63	11.61	56.24	110.80	-54.56
5875.000	Peak	41.96	12.08	54.04	105.20	-51.16
5925.000	Peak	41.16	12.98	54.14	68.20	-14.06

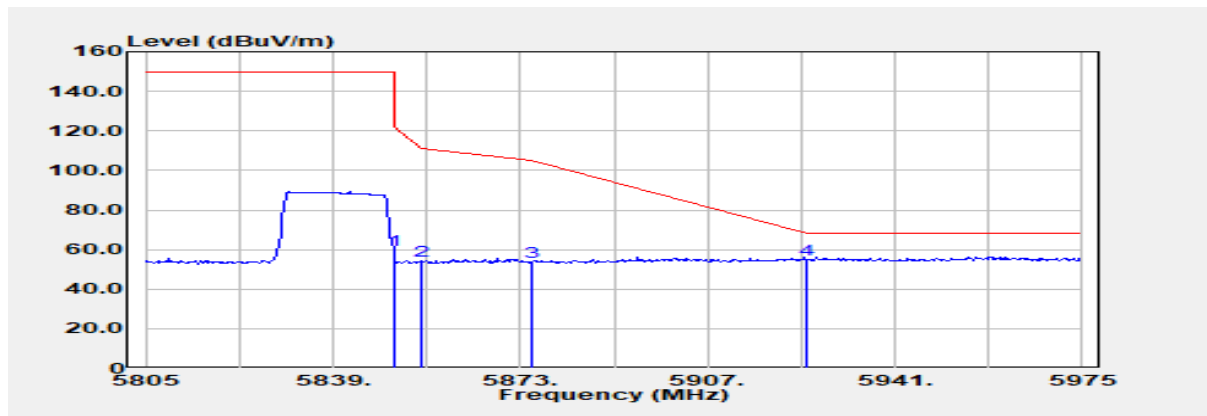
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Report Number :E2/2021/20047
Operation Mode :5.8G 20M
Test Frequency :5839.5 MHz
Test Mode :BE CH High
EUT Pol :H Plan

Test Site :966 Chamber C
Test Date :2021-03-06
Temp./Humi. :22.9/68
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	48.77	11.31	60.07	122.20	-62.13
5855.000	Peak	42.56	11.61	54.17	110.80	-56.63
5875.000	Peak	41.37	12.08	53.45	105.20	-51.75
5925.000	Peak	42.11	12.98	55.09	68.20	-13.11

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11 天線增益之要求

11.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之要求，

5.7.3.1 使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

(C) 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。

(D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

(C) 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。

(3) 供固定式點對點操作使用：

(C) 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。

(D) 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。

(4) 供用戶端裝置(Client Device)操作使用：

(C) 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。

5.7.3.2 使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

(3) 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。

5.7.3.3 使用頻率於5.725 GHz~5.850 GHz 頻段

(3) 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。

(4) 除(3)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。

11.2 天線增益

此裝置使用天線如下，詳細規格請參考附件天線規格書。

天線型式	Brand	Model No.	發射頻帶(MHz)	天線增益(dBi)
PCB	DJI	WM240 DRONE ANT L	5725~5850	4
PCB	DJI	WM240 DRONE ANT R	5725~5850	4

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12 26DB & 6DB 頻寬之測試

12.1 適用標準

(1) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻段，測試儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。

(2) 5.725 GHz~5.850 GHz 頻段，測試儀器之頻寬應設定為 500 kHz 或待測物之 26dB 發射頻寬，兩者取較小者。

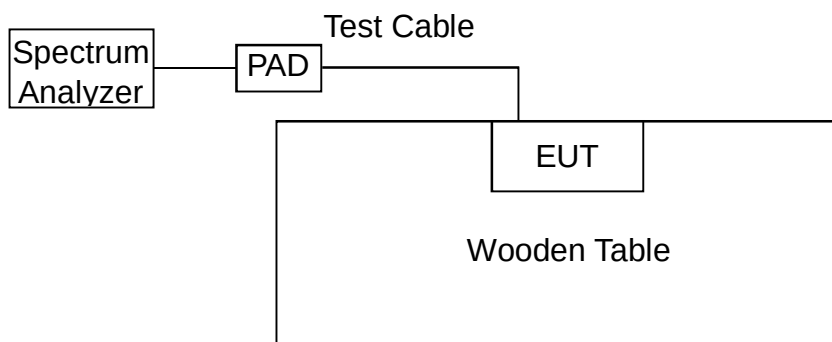
解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

12.2 量測方法

將發射機之天線埠經由適當之衰減直接連至測試儀器。

設定儀器之解析頻寬為 100KHz, 視訊頻寬 $\geq$ 解析頻寬, 頻率掃描範圍(span)大於解析頻寬

12.3 測試配置



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12.4 量測結果

12.4.1 6dB

(1.4M)			(10M)		
Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5728.5	1.0650	0.270	5732.5	9.004	9.540
5784.5	0.9232	-0.350	5787.5	9.010	9.550
5844.5	0.8998	-0.460	5844.5	8.961	9.520

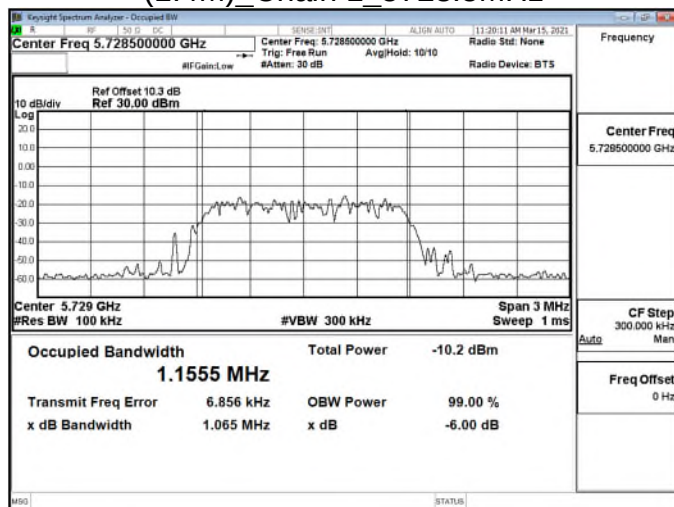
(20M)		
Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5735.5	18.02	12.560
5787.5	17.95	12.540
5839.5	17.85	12.520

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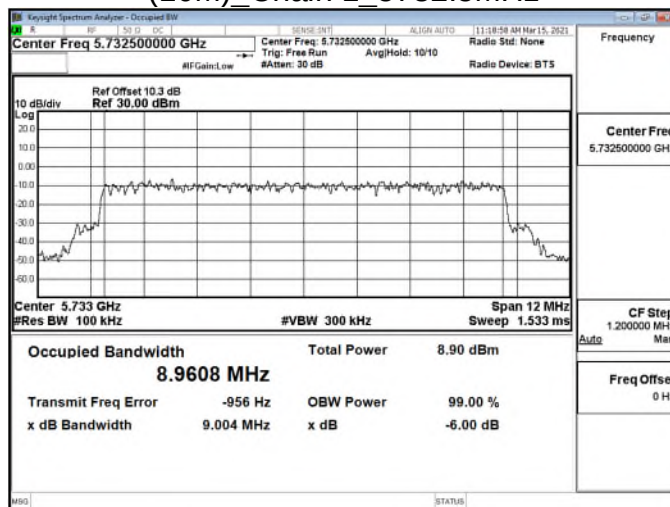
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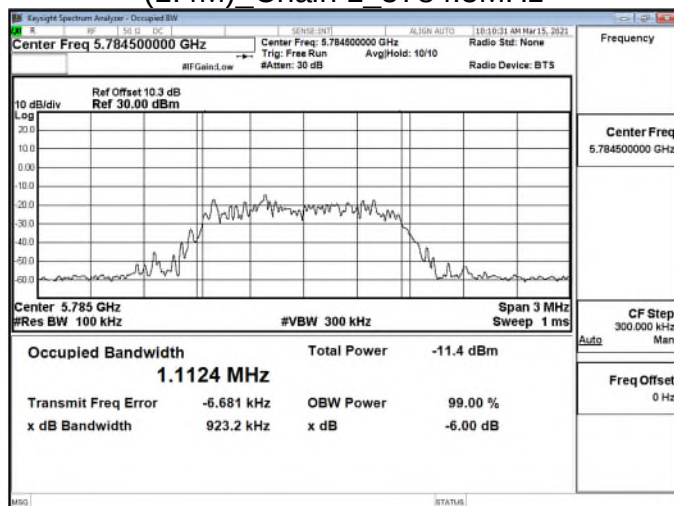
(1.4M) Chain 1_5728.5MHz



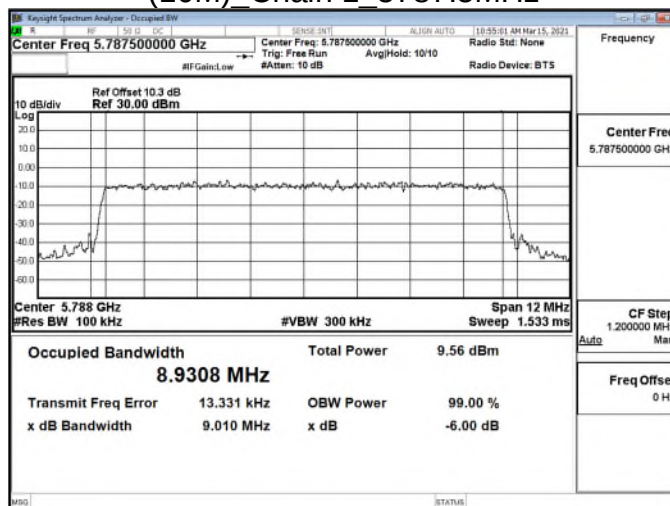
(10M) Chain 1_5732.5MHz



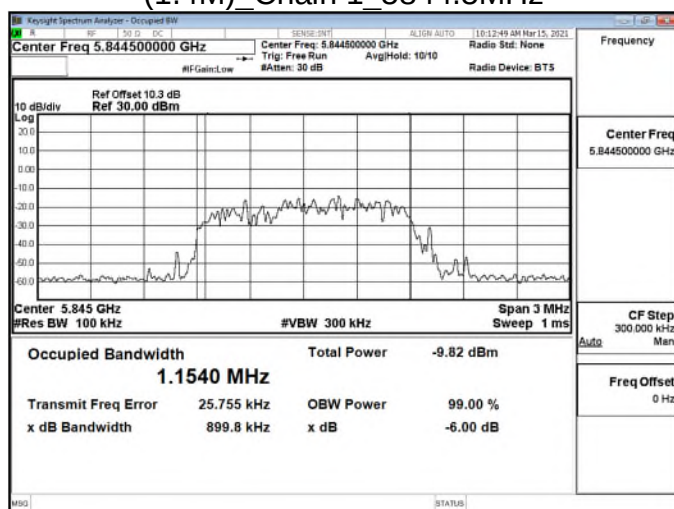
(1.4M) Chain 1_5784.5MHz



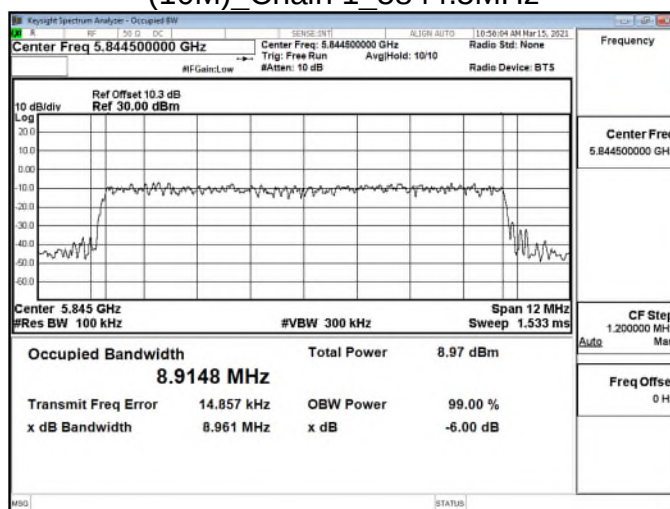
(10M) Chain 1_5787.5MHz



(1.4M) Chain 1_5844.5MHz



(10M) Chain 1_5844.5MHz

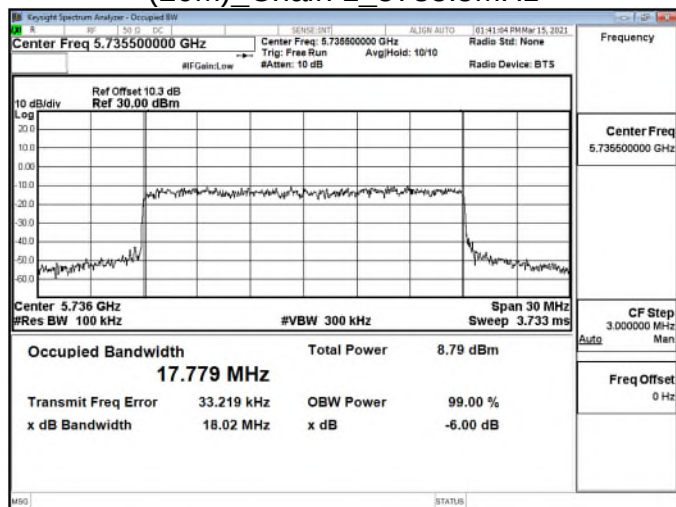


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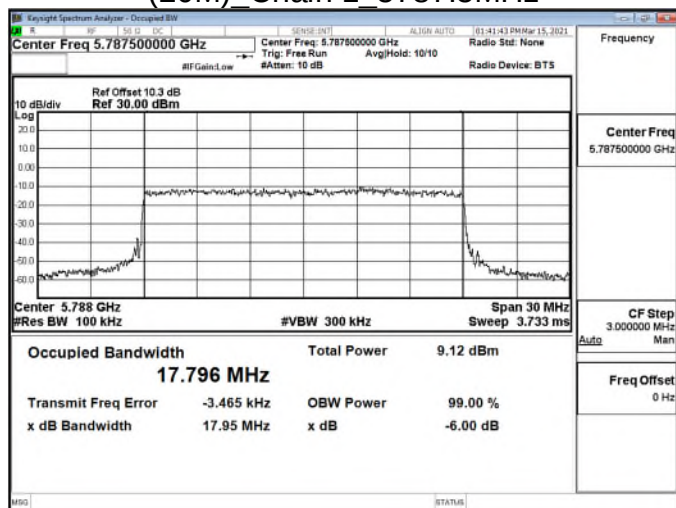
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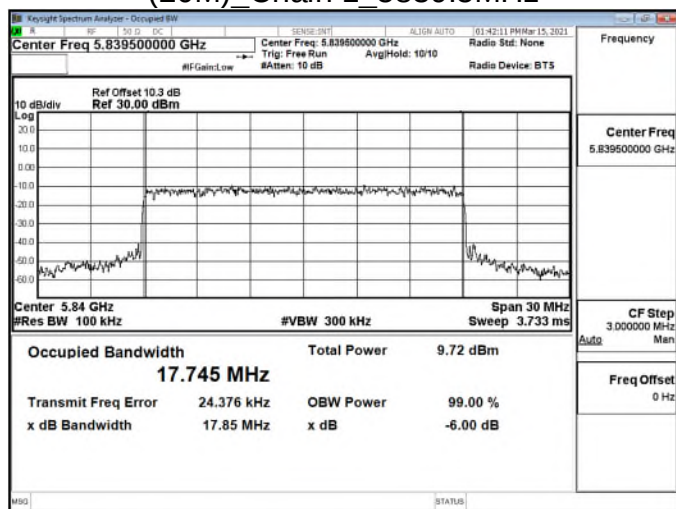
(20M)_Chain 1_5735.5MHz



(20M)_Chain 1_5787.5MHz



(20M)_Chain 1_5839.5MHz



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13 輸出峰值功率之量測

13.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 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。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 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。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 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。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 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。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 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。
- (4) 除(3)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。

13.2 測試方法

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$ ($x=0.99$), 0.04 approximately
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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13.3 天線增益及輸出功率限值計算

依據 FCC KDB 662911 D01 F. 2). e). (ii)

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

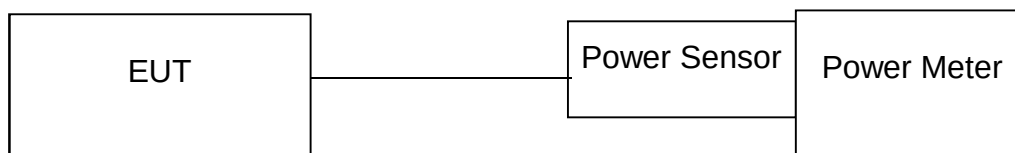
NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

天線方向增益不超過 6dBi, 不需降低輸出功率限值。

13.4 輸出功率之測試配置



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13.5 載波頻率工作週期

Duty Cycle				
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
(1.4M)	100.00	0.00	0.00	0.01
(10M)	79.94	0.97	0.12	1.00
(20M)	79.64	0.99	0.13	1.00

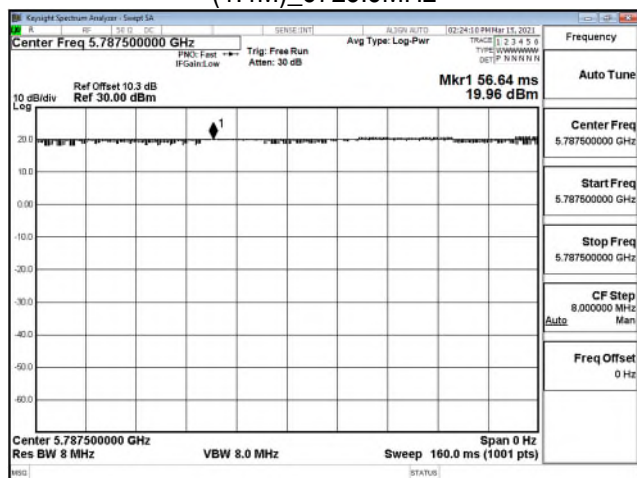
Duty Cycle Factor: $10 * \log(1/1) = 0$
Duty Cycle Factor: $10 * \log(1/0.7994) = 0.97$
Duty Cycle Factor: $10 * \log(1/0.7964) = 0.99$

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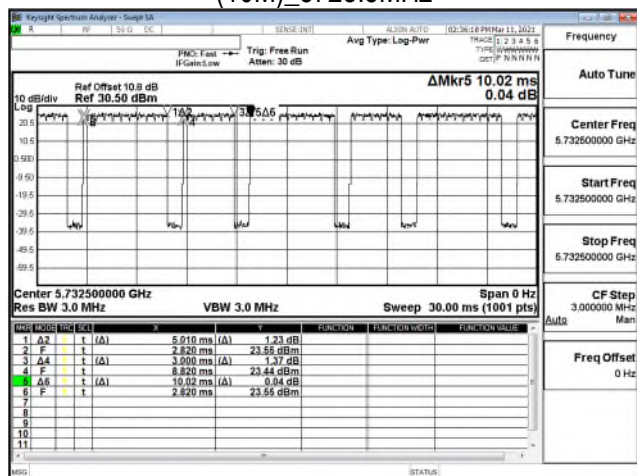
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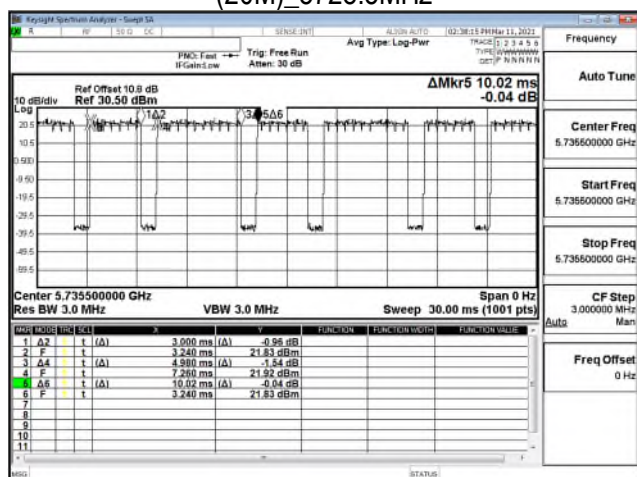
(1.4M)_5728.5MHz



(10M)_5728.5MHz



(20M)_5728.5MHz



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13.6 輸出功率之量測結果

Ch0

(1.4M)						
CH	Frequency (MHz)	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
1	5728.5	0	9.87	9.705	30	PASS
29	5784.5	0	10.26	10.617	30	PASS
59	5844.5	0	10.58	11.429	30	PASS

(10M)						
CH	Frequency (MHz)	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
3	5732.5	0	21.70	147.991	30	PASS
58	5787.5	0	21.55	142.967	30	PASS
115	5844.5	0	21.36	136.847	30	PASS

(20M)						
CH	Frequency (MHz)	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
1	5735.5	0	21.98	157.793	30	PASS
53	5787.5	0	21.94	156.346	30	PASS
105	5839.5	0	21.86	153.492	30	PASS

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Ch1
(1.4M)

CH	Frequency (MHz)	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
1	5728.5	0	10.05	10.116	30	PASS
29	5784.5	0	10.43	11.041	30	PASS
59	5844.5	0	10.84	12.134	30	PASS

(10M)

CH	Frequency (MHz)	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
3	5732.5	0	22.93	196.443	30	PASS
58	5787.5	0	22.68	185.454	30	PASS
115	5844.5	0	22.21	166.432	30	PASS

(20M)

CH	Frequency (MHz)	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
1	5735.5	0	22.56	180.338	30	PASS
53	5787.5	0	22.39	173.415	30	PASS
105	5839.5	0	22.21	166.375	30	PASS

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14 功率密度之限制

14.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。

(3) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 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。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 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。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 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。
- (2) 最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。
- (3) 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。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 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。
- (4) 除(3)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。

14.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為 1 MHz，視訊頻寬大於解析頻寬。

14.3 天線增益及最大功率頻譜密度限值計算

依據 FCC KDB 662911 D01 F. 2). e). (ii)

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

天線方向增益不超過 6dBi, 不需降低最大功率頻譜密度限值。

14.4 測試配置

同本報告 8.3 節傳導配置圖

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14.5 功率密度量測結果

POWER DENSITY (1.4M) MODE						
Frequency (MHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5728.5	7.83	0.00	2.22	10.05	30.00 dBm/500kHz	-19.95
5784.5	7.25	0.00	2.22	9.47	30.00 dBm/500kHz	-20.53
5844.5	7.67	0.00	2.22	9.89	30.00 dBm/500kHz	-20.11

POWER DENSITY (10M) MODE						
Frequency (MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5732.5	-12.09	0.97	2.22	3.19	30.00 dBm/500kHz	-26.81
5787.5	-12.61	0.97	2.22	3.19	30.00 dBm/500kHz	-26.81
5844.5	-10.60	0.97	2.22	3.19	30.00 dBm/500kHz	-26.81

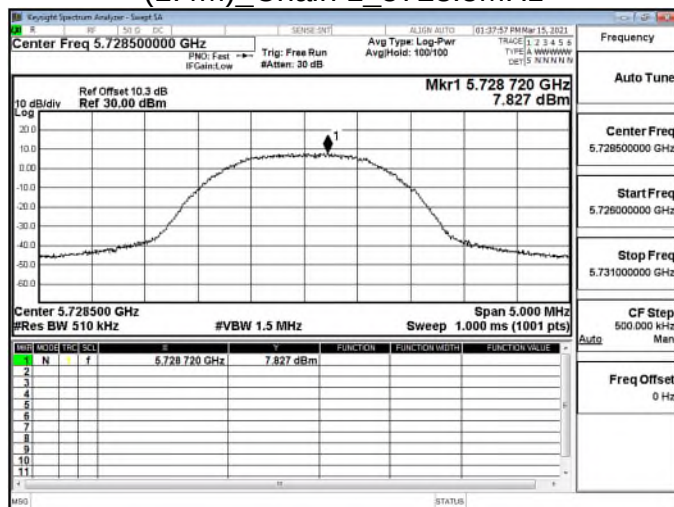
POWER DENSITY (20M) MODE						
Frequency (MHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5735.5	-15.16	0.99	2.22	3.21	30.00 dBm/500kHz	-26.79
5787.5	-14.71	0.99	2.22	3.21	30.00 dBm/500kHz	-26.79
5839.5	-13.55	0.99	2.22	3.21	30.00 dBm/500kHz	-26.79

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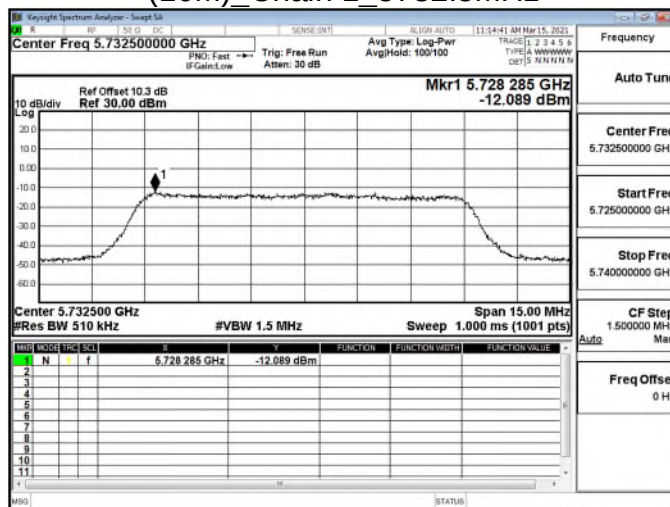
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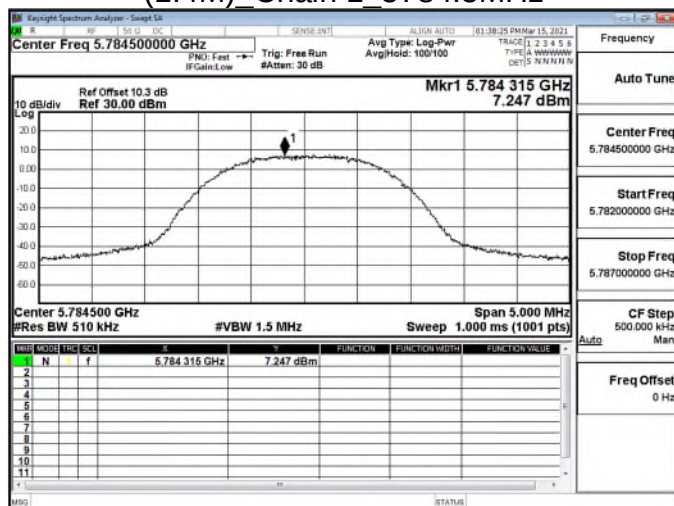
(1.4M) Chain 1_5728.5MHz



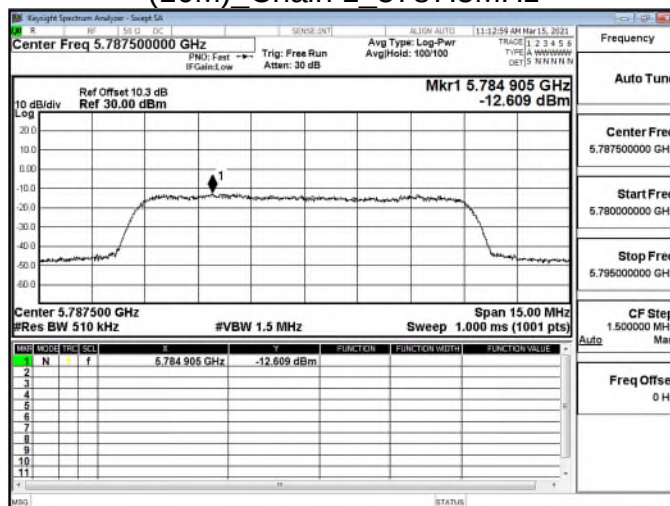
(10M) Chain 1_5732.5MHz



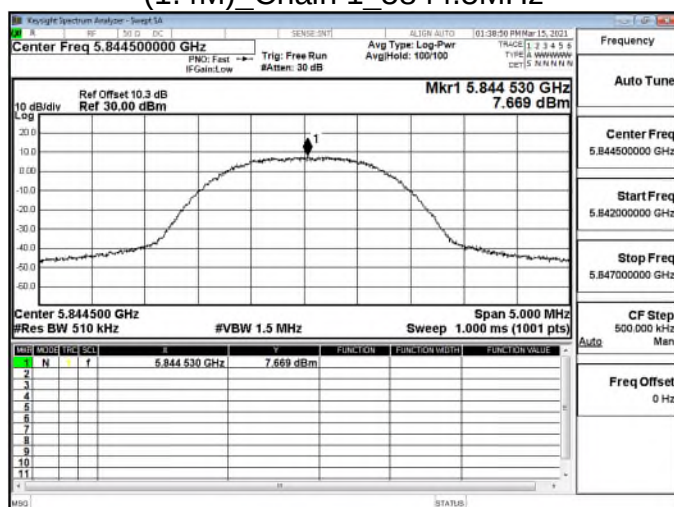
(1.4M) Chain 1_5784.5MHz



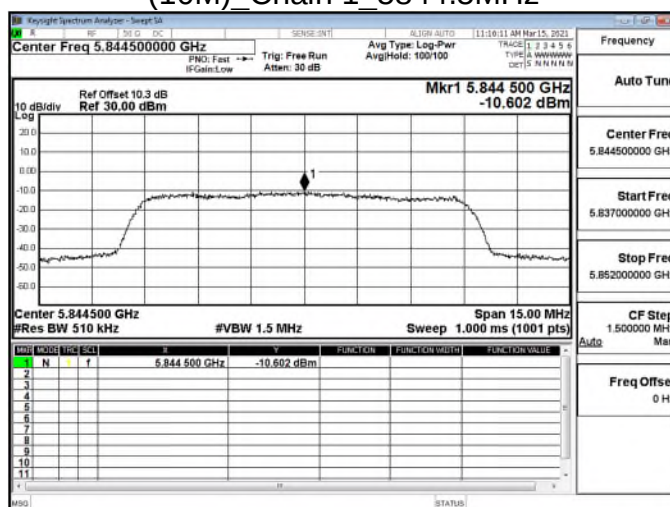
(10M) Chain 1_5787.5MHz



(1.4M) Chain 1_5844.5MHz



(10M) Chain 1_5844.5MHz

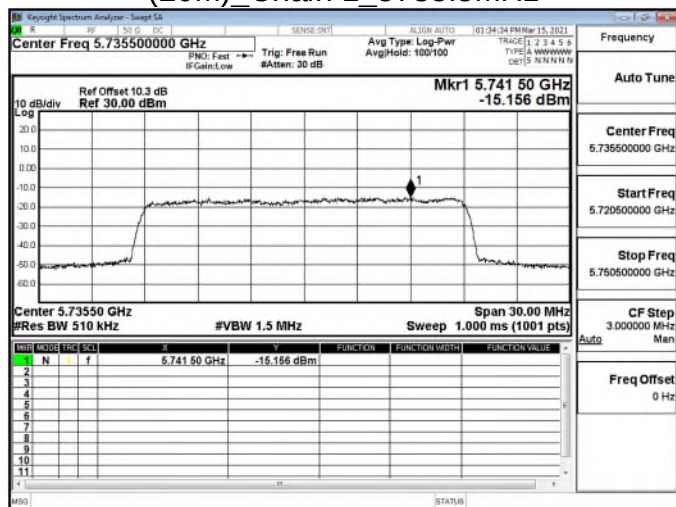


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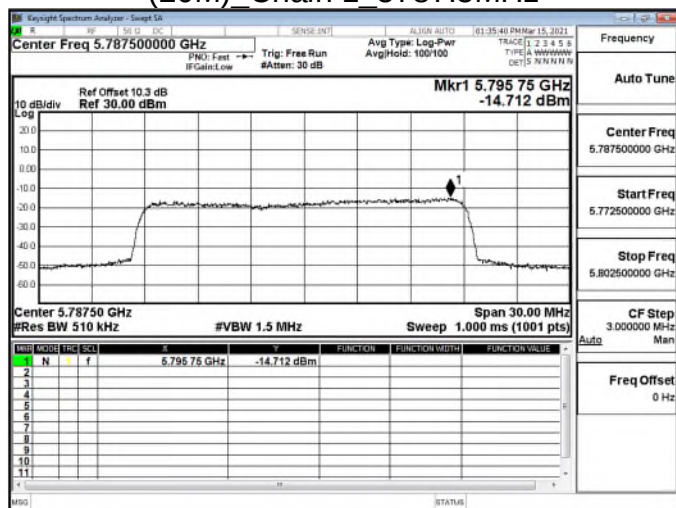
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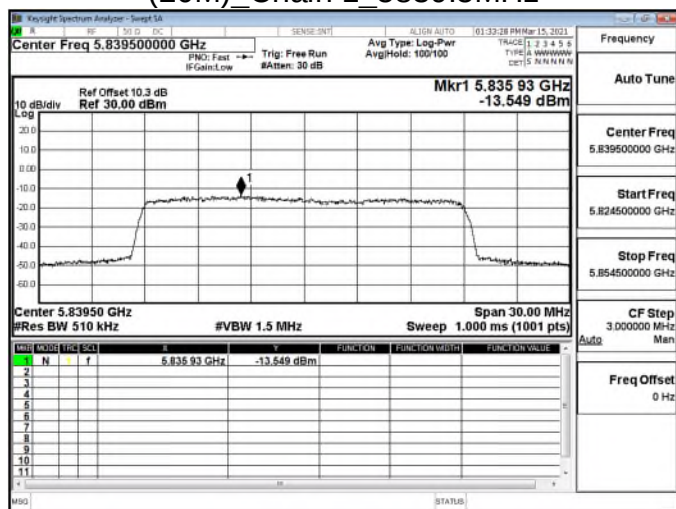
(20M) Chain 1 5735.5MHz



(20M) Chain 1 5787.5MHz



(20M) Chain 1 5839.5MHz



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~ End of Report ~

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