

低功率射頻電機試驗報告

申請廠商	愛西迪有限公司 彰化縣員林鎮三條里員水路二段280號
製造廠商	深圳市雅乐电子有限公司
產品名稱	藍牙耳機
廠牌	FERRARI
型號	FETEPRCBK
系列型號	FESEPRCBK
發射功率	2.30 dBm (Peak)
工作頻率	2402MHz – 2480MHz
調變方式	BT V4.1 BR(GFSK)+EDR($\pi/4$ DQPSK, 8DPSK)
法規	LP0002: 3.10.1節

實驗室資訊

台灣檢驗科技股份有限公司 電子通訊實驗室

新北市新北產業園區五工路134號

認證有效期間：104年06月14日起至107年06月13日止

受理日期 民國107年02月27日

完成日期 民國107年04月18日

張俊卿

報告簽署人
張俊卿 簽章

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t (886-2) 2299-3279

f (886-2) 2298-0488

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測試標準

國家通訊傳播委員會低功率射頻電機技術規範

民國 107 年 1 月 10 日版本

待測裝置已於台灣檢驗科技股份有限公司電子通訊實驗室，依據國家通訊傳播委員會於中華民國一百零七年一月頒佈之低功率射頻電機技術規範測試。

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。

台灣檢驗科技股份有限公司依低功率射頻電機技術規範審驗要點規範製作測試結果報告，測試結果評判為合格。

備註：

1. 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。
2. 此份報告未經本公司同意，不得部份摘錄複製使用。
3. 系列申請，主型號：FETEPRCBK 與系列型號：FESEPRCBK，除型號&外觀差異，產品基本結構相同，特此說明。

測試人員：

黃威豪

日期：

04/18/2018

黃威豪 / 工程師

報告製作：

張瑜健

日期：

04/18/2018

張瑜健 / 工程師

報告審核：

張俊卿

日期：

04/18/2018

張俊卿 / 副理

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測試實驗室資料:

實驗室認可登錄 : 中華民國實驗室認證體系

認可編號 : TAF 0513, 認可頻率範圍9kHz ~ 40GHz

認證有效期間 : 104年6月14日起至107年6月13日止

測試場地 : 桃園市龜山區(華亞科技園區)科技一路2號

實驗室名稱 : 台灣檢驗科技股份有限公司
電子通訊實驗室

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

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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	2.586 dB
輻射干擾量測 (3m測距)	水平極化	9kHz - 30MHz	2.3dB
		30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
		1-18GHz	4.08dB
		18-40GHz	4.08dB
	垂直極化	9kHz - 30MHz	2.3dB
		30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB
		1-18GHz	4.04dB
		18-40GHz	4.04dB
頻率誤差量測	範例一	2.4 GHz	290 Hz
	範例二	5 GHz	724.3 Hz
輸出功率	傳導方式	2.4 GHz	1.3 dB
		5 GHz	1.55 dB
有效輻射功率 (輻射方式)	水平極化	2.4GHz	4.21 dB
		5 GHz	4.62 dB
	垂直極化	2.4 GHz	4.42 dB
		5 GHz	4.74 dB
功率頻譜密度	傳導方式	2.4GHz	1.3dB
		5GHz	1.67dB
鄰頻道功率量測 (輻射方式)	水平極化	30-167MHz	4.22dB
		167-500MHz	3.44dB
		0.5-1GHz	3.39dB
	垂直極化	30-180MHz	3.37dB
		180-417MHz	3.19dB
		0.417-1GHz	3.19dB

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t (886-2) 2299-3279

f (886-2) 2298-0488

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1 一般資料

1.1 產品特性

產品名稱	藍牙耳機
型號	FETEPRCBK
系列型號	FESEPRCBK
產品商標	FERRARI
Hardware Version	N/A
Software Version	N/A
使用電源	3.7Vdc from Rechargeable Li-polymer Battery

發射頻帶	2402MHz – 2480MHz
輸出功率	2.30 dBm (Peak)
調變方式	BT V4.1 BR(GFSK)+EDR($\pi/4$ DQPSK, 8DPSK)
頻道數	79
天線型式/天線增益	Chip Antenna, peak gain: 2.5 dBi Part No: H2U34W1H1Z0400, Supplier: Unictron Technologies Corporation

本報告針對藍芽(BR/EDR)測試。

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1.2 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電機技術規範(LP0002, 107.1.10 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 63.10:2013、FCC CFR 47 15.247 之檢驗法。

項次	測試項目	適用規範	測試結果	量測設備	備註
1	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱5.5節	請參閱4.1節	合格
2	禁用頻道之輻射發射	低功率射頻電機技術規範 3.10.1.5節	請參閱6.5節	請參閱4.2節	合格
3	天線增益之要求	低功率射頻電機技術規範 3.10.1.3 (1) 節	請參閱7.2節	-----	合格
4	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2.(A)、(B) 節	請參閱8.3節	請參閱4.3節	合格
5	頻帶邊緣之發射	低功率射頻電機技術規範 3.10.1.5節	請參閱9.3節	請參閱4.3節	合格
6	發頻頻寬	低功率射頻電機技術規範 3.10.1.6.(1) (A) 節	請參閱10.3節	請參閱4.3節	合格
7	載波頻率間隔	低功率射頻電機技術規範 3.10.1.6.(1) (A) 節	請參閱11.3節	請參閱4.3節	合格
8	載波頻率之佔用週期	低功率射頻電機技術規範 3.10.1.6.(1) (A)(a) 節	請參閱12.3節	請參閱4.3節	合格
9	頻道數量	低功率射頻電機技術規範 3.10.1.6.(1) (A)(a) 節	請參閱13.3節	請參閱4.3節	合格
	以下空白				

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*測試模式

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth (TX)	0 to 78	0,39,78	GFSK	DH5
Bluetooth (RX)	0 to 78	0,39,78	GFSK	DH5
RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
Bluetooth (TX)	0 to 78	0,39,78	GFSK	DH5
Bluetooth (RX)	0 to 78	0,39,78	GFSK	DH5

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
Peak Output Power, 20dB Band Width				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
Bluetooth	0 to 78	0,39,78	GFSK	DH5
	0 to 78	0,39,78	$\pi/4$ -DQPSK	2DH5
	0 to 78	0,39,78	8-DPSK	3DH5
Band Edge				
Bluetooth	0 to 78	0,78	GFSK	DH5
Bluetooth	0 to 78	0,78	8DPSK	3DH5
Frequency Separation				
Bluetooth	0 to 78	0,1,2	$\pi/4$ -DQPSK	2DH5
Number of hopping frequency				
Bluetooth	0 to 78	0 to 78	GFSK	DH5
Time of Occupancy (Dwell time)				
Bluetooth	0 to 78	39	GFSK	2DH1/2DH3/2DH5

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 至 30MHz 之射頻電壓 (在電源端子每一電源線對接地點) 不得超過下表所列之限值。測量時應經過 50 μ H 及50 Ω 之電源線阻抗模擬網路 (LISN)。頻率重疊處，以較低限值為準。

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低功率射頻電機技術規範3.10.5之要求，其他開放頻帶外不必要之輻射需符合2.8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	干擾限制 μ V/m	干擾限制 dB μ V/m
0.009 – 0.490	300	2,400/頻率 (kHz)	
0.490 – 1.705	30	24,000/頻率 (kHz)	
1.705 - 30	30	30	
30 - 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960以上	3	500	54.0

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻電機技術規範2.7節之要求，任何低功率射頻電機之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻電機落於下表所列頻帶內之混附發射，其電場強度必須符合第2.8節的限制規定。

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

- (4) 依據NCC低功率射頻電機技術規範2.11節之要求，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；送信機之輻射電場強度不得超過第2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求 (特殊規定)

依據NCC低功率射頻電機技術規範3.10節 跳頻 (frequency hopping) 之要求，使用頻率為2.4 G至2.4835 GHz 者

(1) 峰值輸出功率之要求：

依據NCC低功率射頻電機技術規範3.10.1.2 (A)之規定，操作於2400-2483.5 MHz，並至少使用75個跳頻頻道之跳頻系統，其峰值輸出功率不得大於1 Watt。

(2) 天線增益之要求：

依據NCC低功率射頻電機技術規範3.10.1.3之規定，進行固定式點對點操作時，應符合下列情現之一：依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作頻率為2400-2483.5 兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

(3) 頻帶邊緣之要求：

依據NCC低功率射頻電機技術規範3.10.1.5之規定，帶外發射限制：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。

此外，落於2.7 禁用頻段之輻射發射，應符合2.8 之規定。

(4) 其他限制事項：

依據NCC低功率射頻電機技術規範3.10.1.2跳頻系統之規定

3.10.1.6 (1)(A)跳頻系統之載波頻率頻道間隔應大於或等於25 kHz 或跳頻頻道之20 dB頻寬，兩者取較寬者。但操作頻率為2400 MHz~2483.5 MHz 頻段且輸出功率應小於或於125 mW 跳頻系統，其載波頻率頻道間隔不得小於25 kHz 或跳頻頻道20 dB寬之三分之二，兩者取較寬者。系統之跳頻頻道應依虛擬亂數排列，在各頻率跳頻頻道上跳躍。每一發射機必須均等的使用每一頻率。系統接收機應具有與射機跳躍頻道頻寬相匹配之輸入頻寬，且應隨所發射之訊號同步偏移接收頻。

3.10.1.7 (1)(A)(a) 操作於2400 MHz~2483.5 MHz之展頻跳頻系統，須使用至少15 個無重疊的頻道，在0.4 秒乘以跳頻頻道數之週期內，任一頻率占用之平均時間應小於或等於0.4 秒。應使用智慧型跳頻技術，以避免占用於特定跳頻頻道。

註：此產品為點對多點操作。

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3 受測裝置之系統說明

裝置名稱	製造者/申請者	型號
*藍牙耳機	深圳市雅乐电子有限公司 / 愛西迪有限公司	FETEPRCBK

標記：“*”表欲申請之受測物。

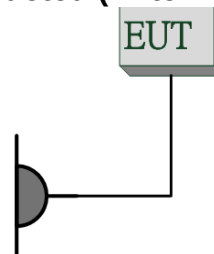
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

Radiated Emission & Conduction (AC Power Line)



Conducted (Antenna Port)



3.2 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線線長(米)	電源線長(米)
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-WR6X4	Un-shielding	Un-shielding
3.	Test Tool Kit	N/A	N/A	N/A	N/A	N/A

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	2017/12/24	2018/12/23
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	2017/08/30	2018/08/29
LISN	Schwarzbeck	NSLK 8127	8127-648	2017/06/18	2018/06/17
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

4.2 天線端傳導測試之量測儀器

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2017/06/21	2018/06/20
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0011721	N/A	N/A

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4.3 量測場強輻射之量測儀器

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	2017/10/27	2018/10/26
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2017/05/31	2018/05/30
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
EMI Test Receiver	R&S	ESU 40	100363	2017/04/18	2018/04/17
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Pre-Amplifier	EMC Instruments	EMC9135	980234	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	2017/12/26	2018/12/25
Attenuator	Marvelous	WATT-218FS-10	RF246	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Notebook	Lenovo	L420	S0012467	N/A	N/A

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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5 電源線傳導干擾之量測

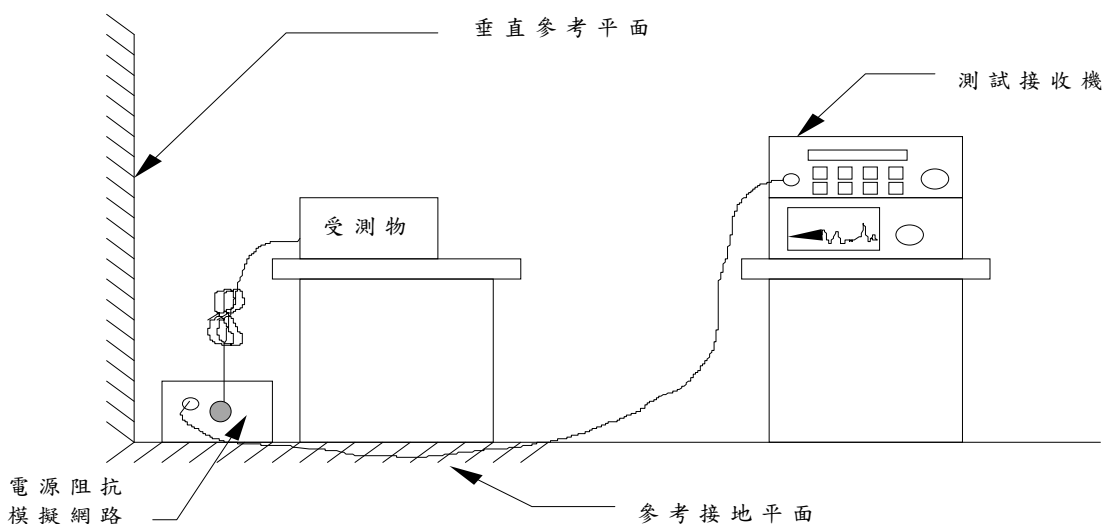
5.1 適用標準

依據NCC低功率射頻電機技術規範2.3節之要求。

5.2 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。

5.3 測試配置



5.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

$$\text{結果值(QP/AV Level)} = \text{儀器讀值(QP/AV Reading)} + \text{校正因子}$$

其中校正因子為：

$$\text{饋線損失} + \text{電源阻抗模擬網路損失}$$

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5.5 傳導干擾之量測結果:

測試設備: 藍牙耳機

6dB 頻寬: 10 kHz

量測天線: N/A

測試者: 黃威豪

型號: FETEPRCBK

視訊頻寬: 10 kHz

檢測器: Average/Quasi-Peak

測試日期: 04/03/2018

Site : Conduction Room

Phase: L1

Temperature: 21 °C

Limit: CNS 13438 (QP)

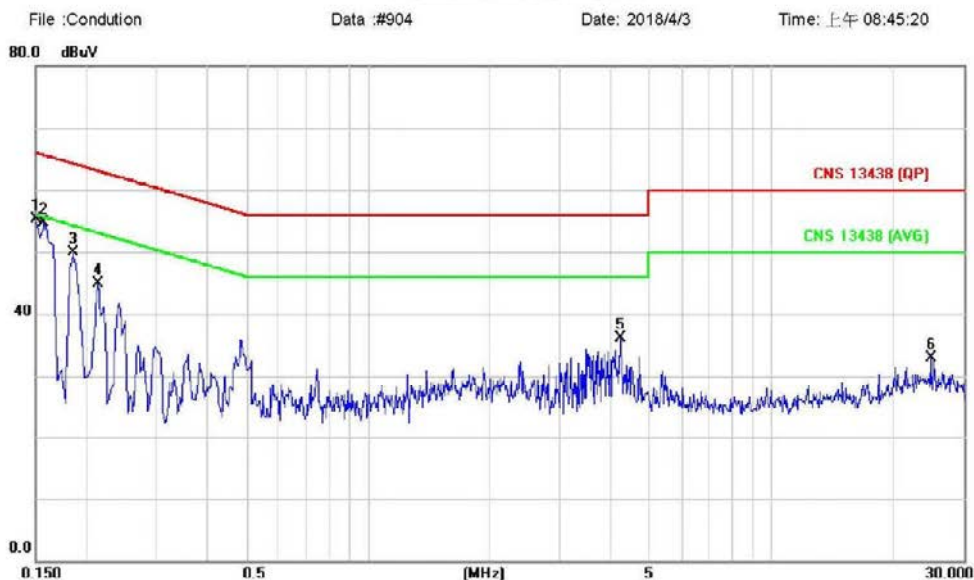
Power: AC 110V/60Hz

Humidity: 45 %

Mode:

Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	35.64	19.64	55.28	66.00	-10.72	peak	
2		0.1580	35.08	19.64	54.72	65.57	-10.85	peak	
3		0.1860	30.19	19.63	49.82	64.21	-14.39	peak	
4		0.2140	25.32	19.64	44.96	63.05	-18.09	peak	
5		4.2260	15.94	20.18	36.12	56.00	-19.88	peak	
6		24.8620	12.64	20.27	32.91	60.00	-27.09	peak	

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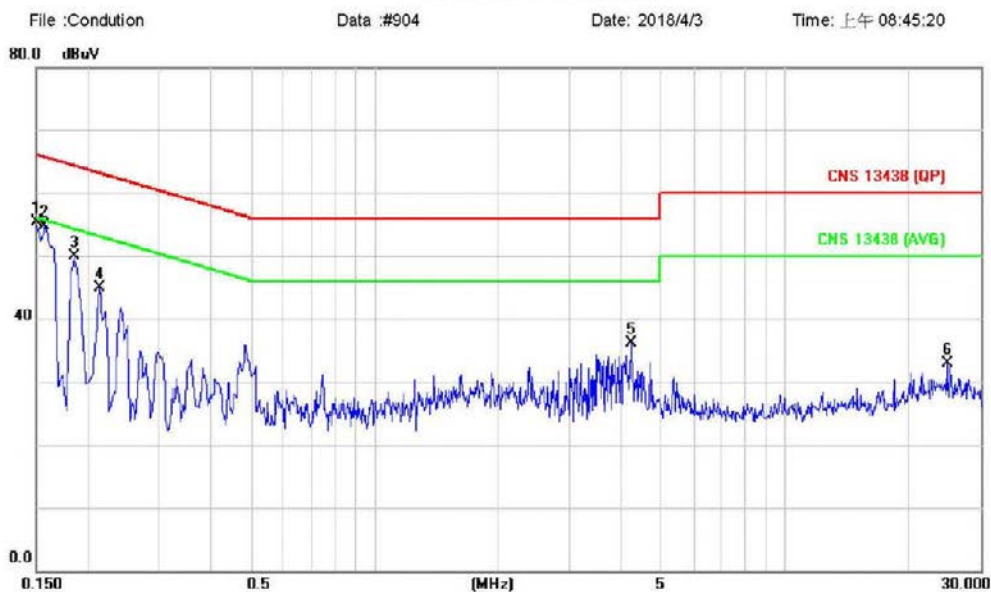
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Site : Conduction Room
Limit: CNS 13438 (QP)
Mode:
Note:

Phase: **N**
Power: AC 110V/60Hz

Temperature: 21 °C
Humidity: 45 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	35.64	19.64	55.28	66.00	-10.72	peak	
2		0.1580	35.08	19.64	54.72	65.57	-10.85	peak	
3		0.1860	30.19	19.63	49.82	64.21	-14.39	peak	
4		0.2140	25.32	19.64	44.96	63.05	-18.09	peak	
5		4.2260	15.94	20.18	36.12	56.00	-19.88	peak	
6		24.8620	12.64	20.27	32.91	60.00	-27.09	peak	

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6 禁用頻帶輻射發射之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.5之要求，其他開放頻帶外不必要之輻射干擾需符合2.8節之一般限制要求。

6.2 量測方法

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。1GHz 以下先進行Peak 值量測，若Peak 以低於QP 限制值將不在進行QP 量測，否則，則進行QP 值量測，1GHz 以上先進行Peak 值量測，若Peak 以低於AV 限制值將不在進行AV值量測，否則，則進行AV 值量測。

9kHz~150kHz 測試

解析頻寬:	300Hz	視訊頻寬:	300Hz
量測天線:	6502	檢測器:	Quasi-Peak

150kHz~30MHz 測試

解析頻寬:	10kHz	視訊頻寬:	10kHz
量測天線:	6502	檢測器:	Quasi-Peak

1GHz 以下測試

解析頻寬:	100kHz	視訊頻寬:	100kHz
量測天線:	VULB9168	檢測器:	Quasi-Peak

1GHz 以上測試

量測天線:	9120D	檢測器:	Peak, Average
頻譜分析儀設定	Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz		

註:輻射量測僅放最差模式 (30MHz以上)。

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6.3 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。

註: 此裝置有 EDR 功能，比較 BR mode 及 EDR mode 測試值後附上最差模式 EDR mode 數據。

註: 比較 H Plane、E1 Plane 和 E2 Plane 測試值後附上最差模式 H Plane 數據。

Note: Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)
“F”: denotes Fundamental Frequency. ; “H”: denotes Harmonic Frequency.
“E”: denotes Band Edge Frequency. ; “S”: denotes Spurious Frequency.
“---”: denotes Noise Floor.

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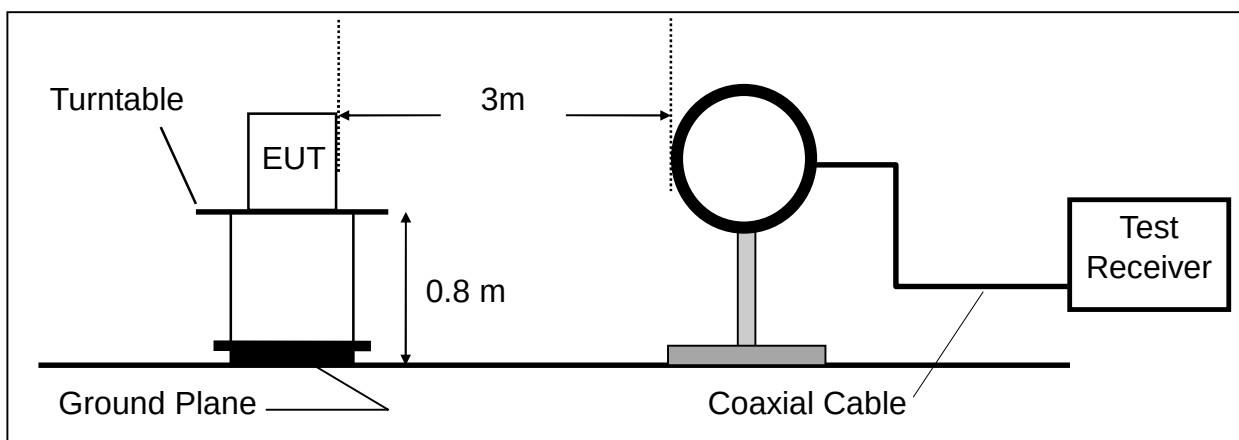
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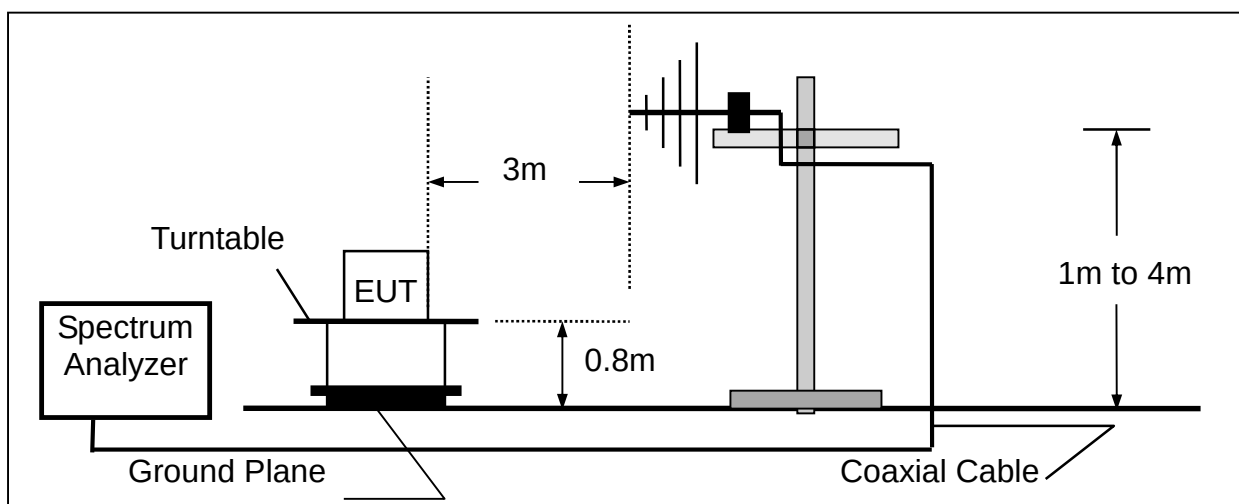
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6.4 輻射之測試配置

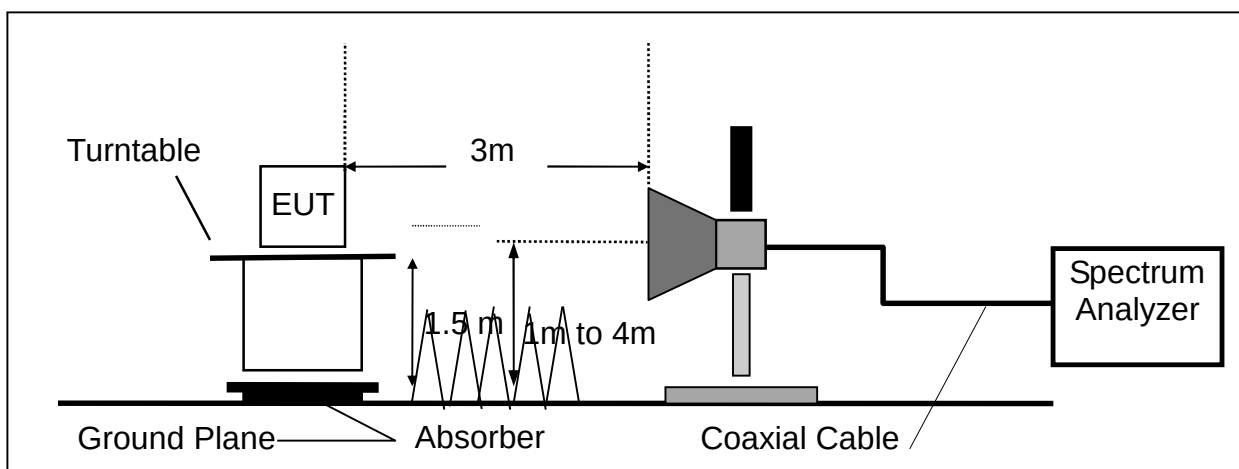
(A) 量測頻率低於 30MHz 以下之測試配置



(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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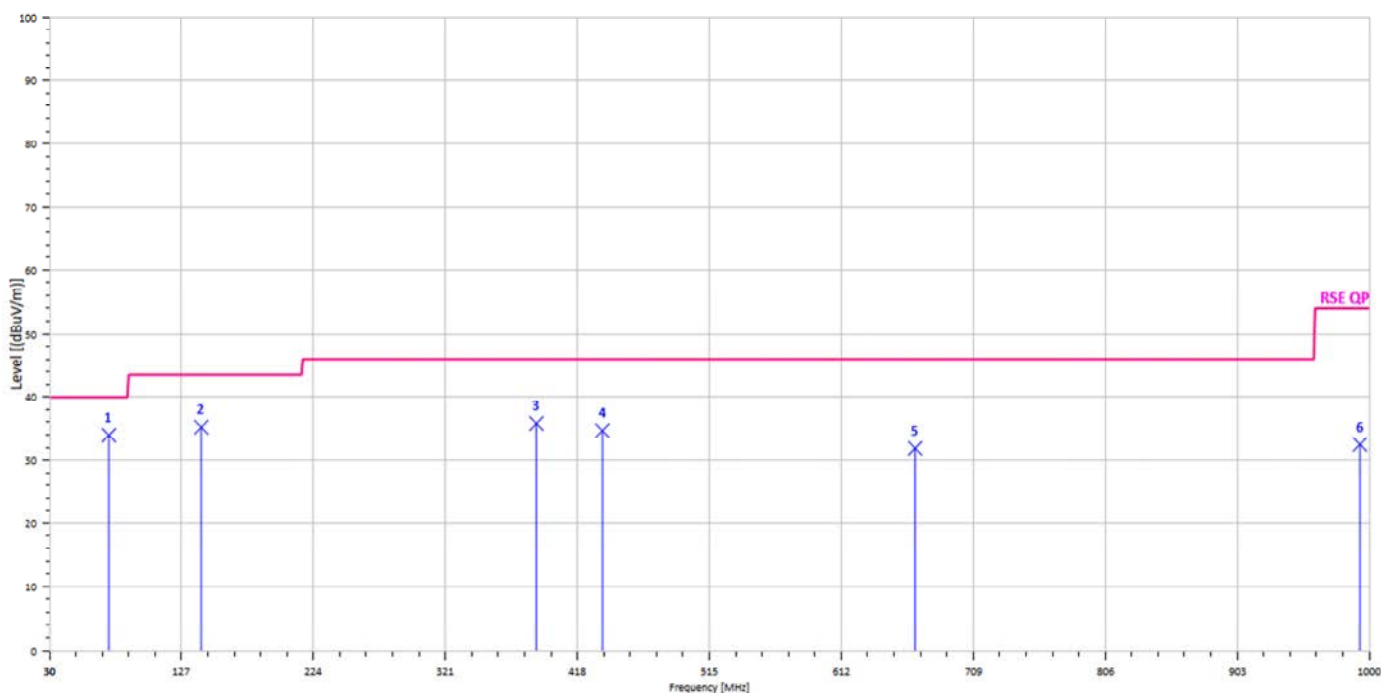
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6.5 場強輻射之量測結果

6.5.1 發射機場強輻射之量測結果(1GHz 以下)

Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	S	Peak	53.91	-19.96	33.95	40	-6.05
141.55	S	Peak	51.57	-16.36	35.21	43.5	-8.29
387.93	S	Peak	48.97	-13.16	35.82	46	-10.18
436.43	S	Peak	47.27	-12.59	34.68	46	-11.32
666.32	S	Peak	40.33	-8.48	31.85	46	-14.15
993.21	S	Peak	36.43	-3.97	32.46	54	-21.54

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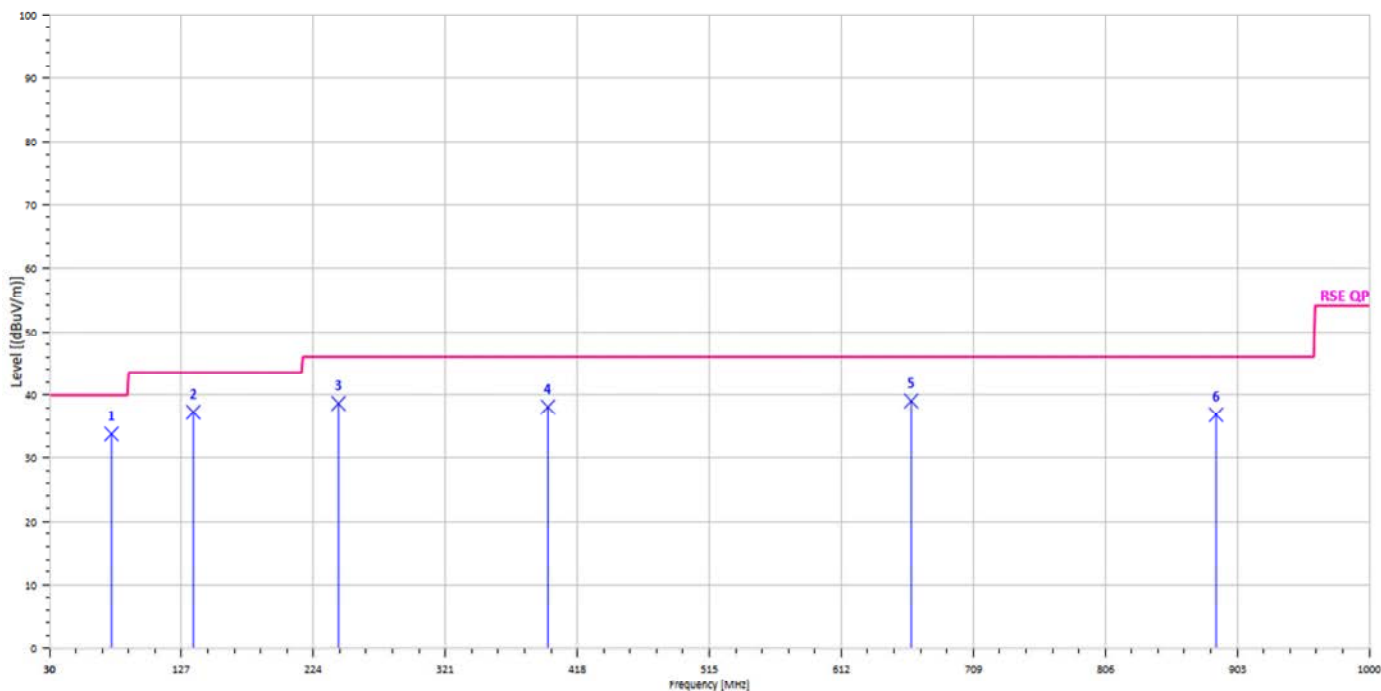
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Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.59	S	Peak	54.18	-20.30	33.87	40	-6.13
135.73	S	Peak	54.26	-16.95	37.31	43.5	-6.19
242.43	S	Peak	55.67	-16.99	38.69	46	-7.31
396.38	S	Peak	50.88	-12.74	38.14	46	-7.86
663.41	S	Peak	47.39	-8.32	39.07	46	-6.93
887.48	S	Peak	42.70	-5.79	36.92	46	-9.08

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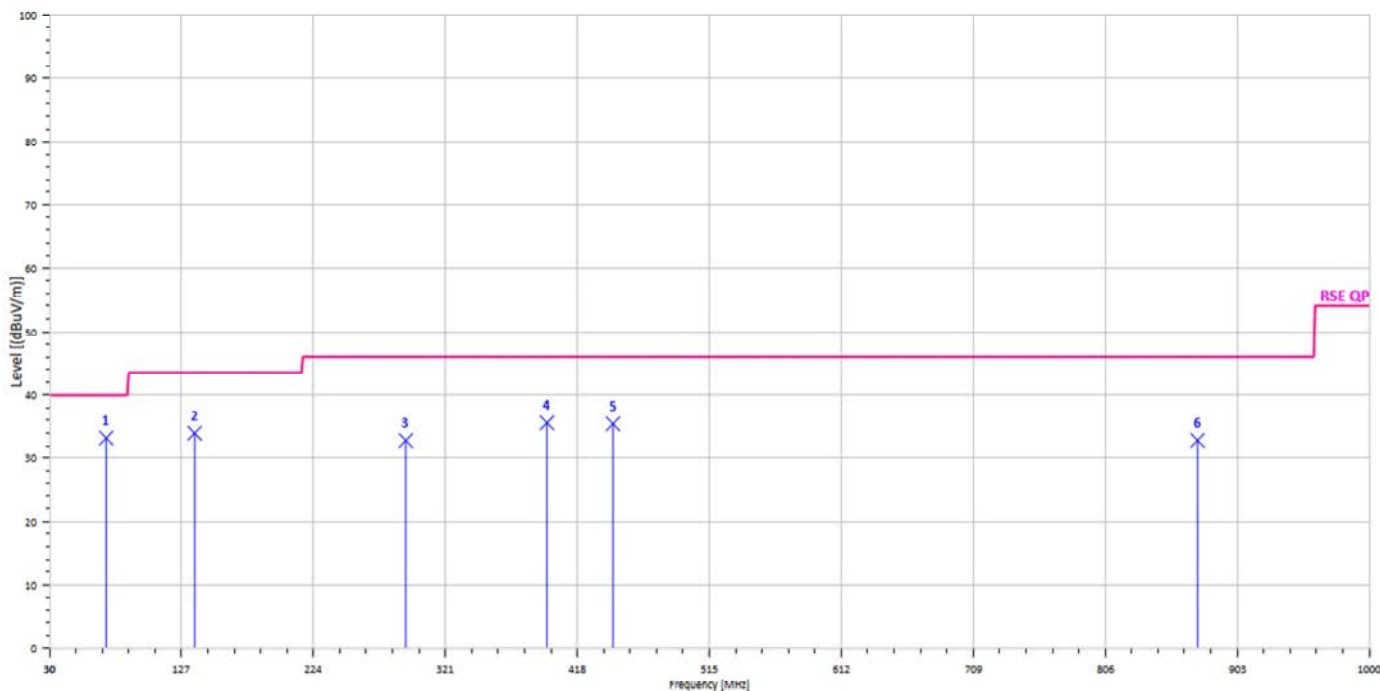
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Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	S	Peak	52.83	-19.62	33.21	40	-6.79
136.70	S	Peak	50.82	-16.84	33.98	43.5	-9.52
291.90	S	Peak	48.27	-15.45	32.82	46	-13.18
395.69	S	Peak	48.40	-12.78	35.61	46	-10.39
444.19	S	Peak	47.73	-12.27	35.46	46	-10.54
873.90	S	Peak	39.19	-6.34	32.85	46	-13.15

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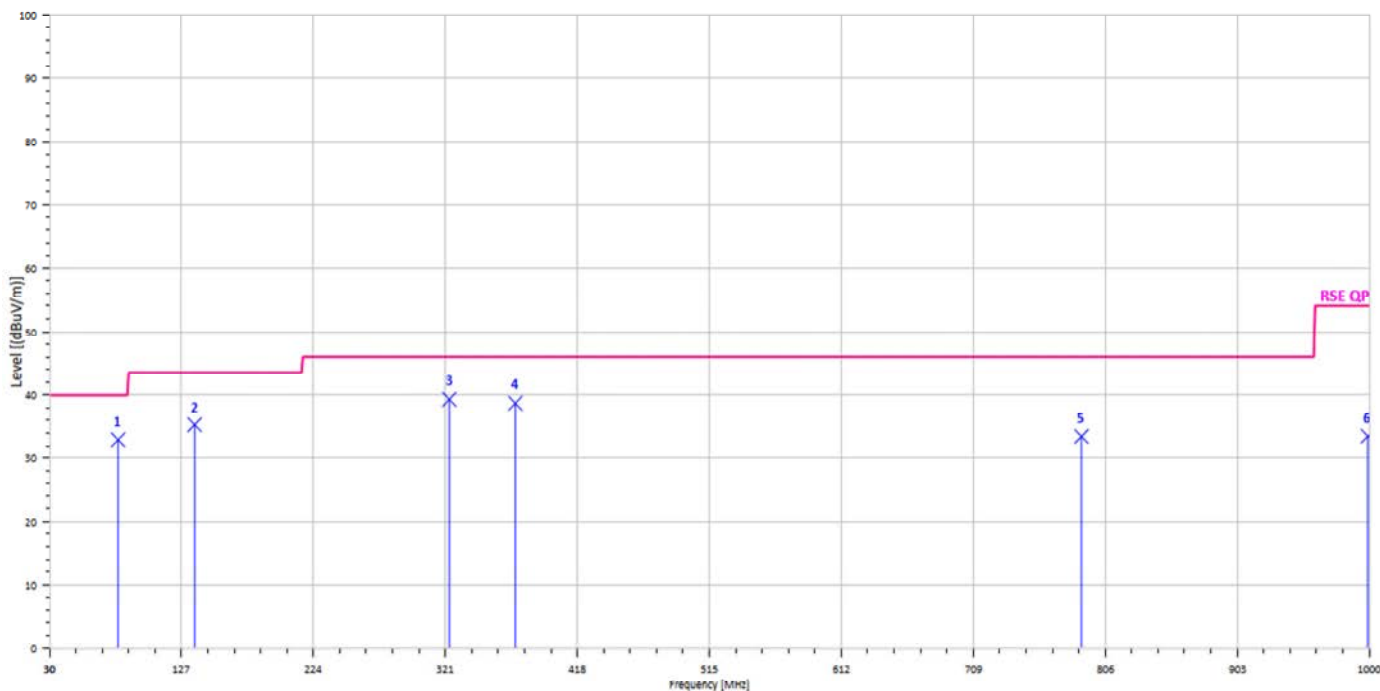
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Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
80.44	S	Peak	54.10	-21.16	32.95	40	-7.05
136.70	S	Peak	52.15	-16.84	35.31	43.5	-8.19
323.91	S	Peak	53.95	-14.62	39.33	46	-6.67
372.41	S	Peak	52.34	-13.60	38.73	46	-7.27
788.54	S	Peak	40.29	-6.83	33.46	46	-12.54
999.03	S	Peak	37.26	-3.76	33.51	54	-20.49

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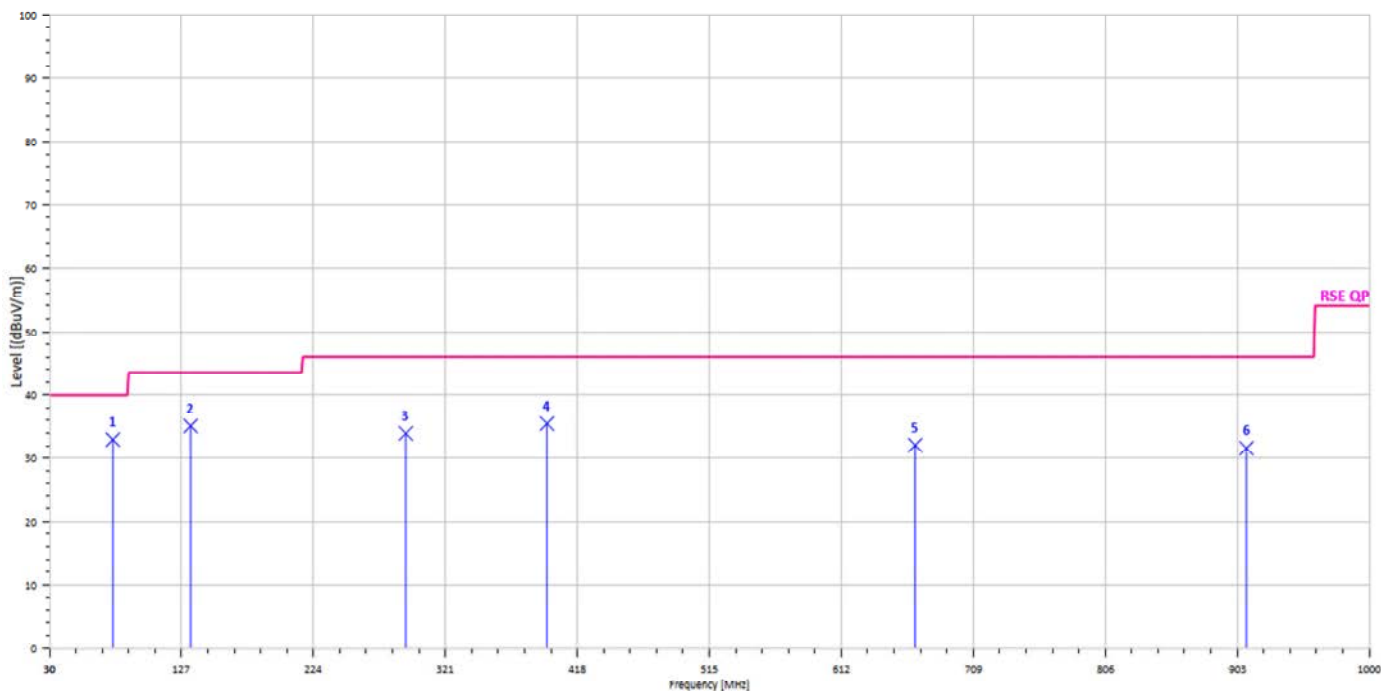
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Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
76.56	S	Peak	53.43	-20.47	32.95	40	-7.05
133.79	S	Peak	52.30	-17.17	35.12	43.5	-8.38
291.90	S	Peak	49.39	-15.45	33.94	46	-12.06
395.69	S	Peak	48.28	-12.78	35.50	46	-10.50
666.32	S	Peak	40.55	-8.48	32.07	46	-13.93
909.79	S	Peak	36.81	-5.24	31.57	46	-14.43

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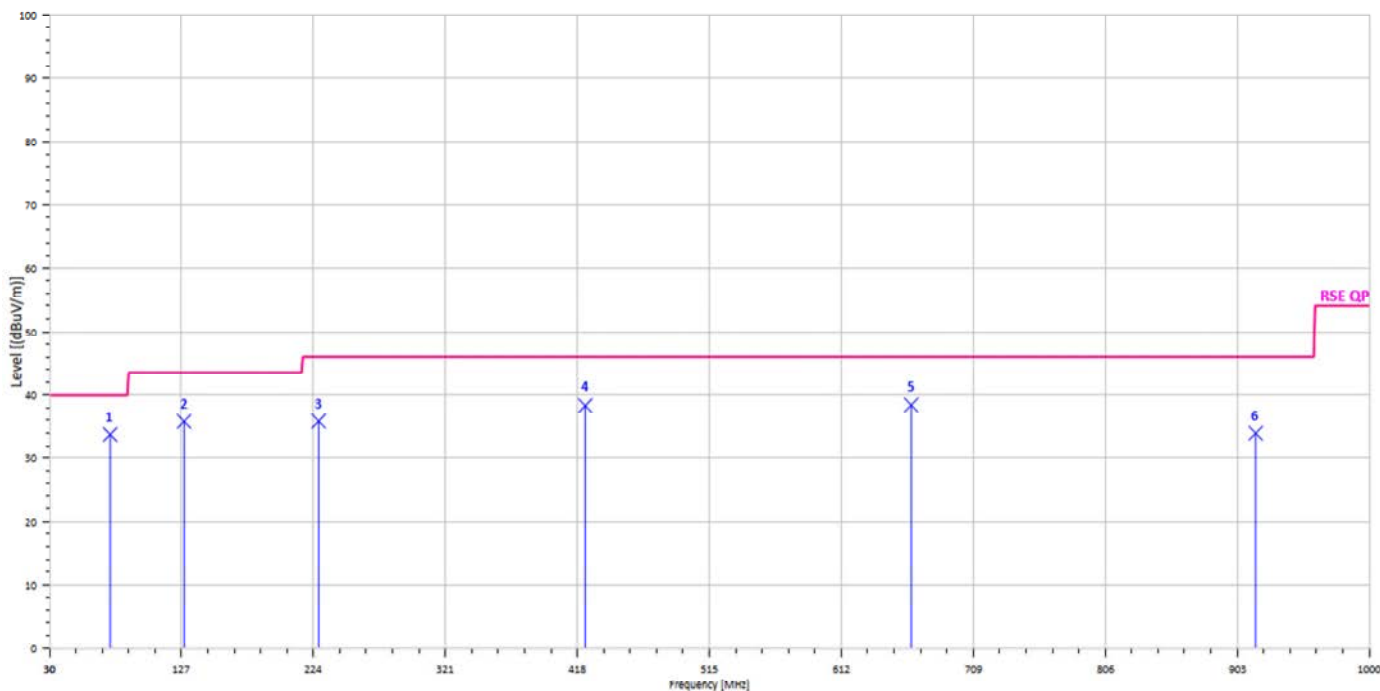
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Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2480 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	S	Peak	53.91	-20.13	33.77	40	-6.23
128.94	S	Peak	53.56	-17.73	35.84	43.5	-7.66
227.88	S	Peak	53.80	-17.91	35.89	46	-10.11
423.82	S	Peak	50.62	-12.26	38.36	46	-7.64
663.41	S	Peak	46.78	-8.32	38.46	46	-7.54
916.58	S	Peak	39.11	-5.13	33.98	46	-12.02

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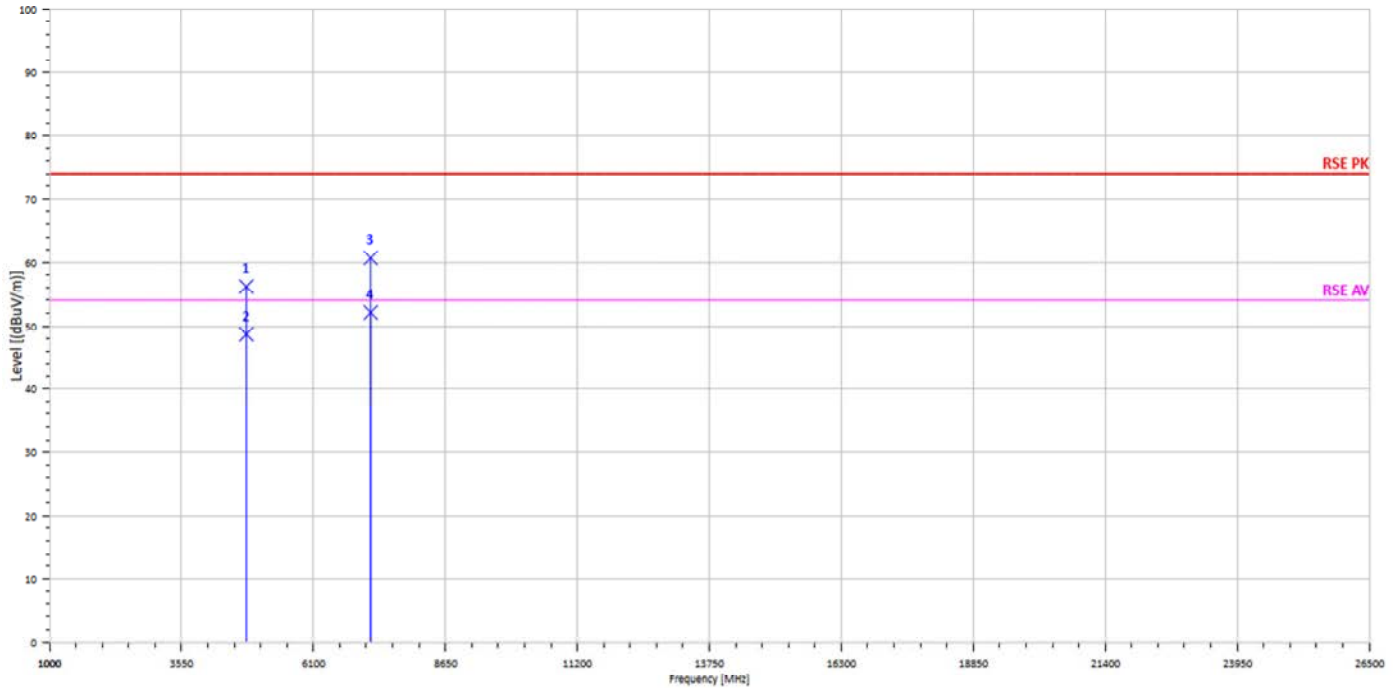
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6.5.2 發射機場強輻射之量測結果(1GHz 以上)

Operation Mode : BT BR Test Date : 2018/4/2
Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4804.00	H	Peak	57.32	-1.16	56.17	74	-17.83
4804.00	H	Average	49.84	-1.16	48.69	54	-5.31
7206.00	H	Peak	55.30	5.41	60.71	74	-13.29
7206.00	H	Average	46.70	5.41	52.11	54	-1.89

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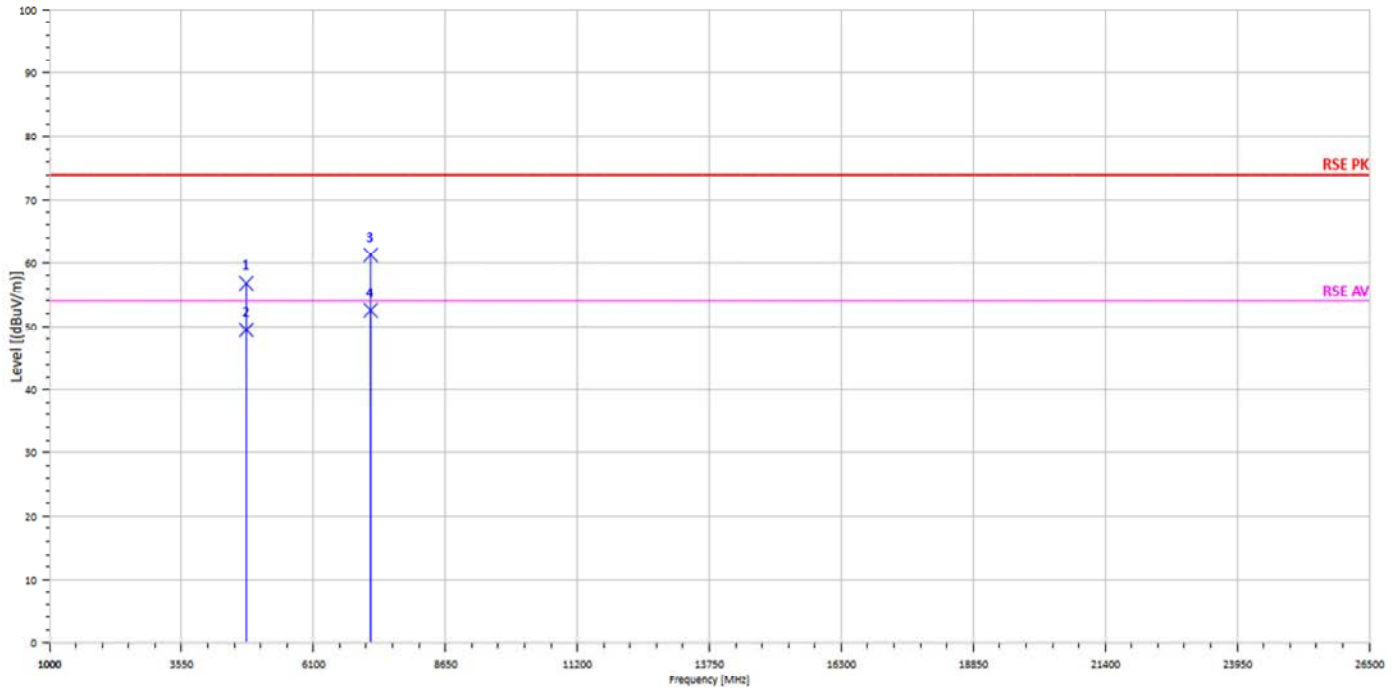
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Operation Mode : BT BR Test Date : 2018/4/2
Fundamental Frequency : 2402 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4804.00	H	Peak	57.97	-1.16	56.81	74	-17.19
4804.00	H	Average	50.55	-1.16	49.40	54	-4.60
7206.00	H	Peak	55.81	5.41	61.22	74	-12.78
7206.00	H	Average	47.11	5.41	52.53	54	-1.47

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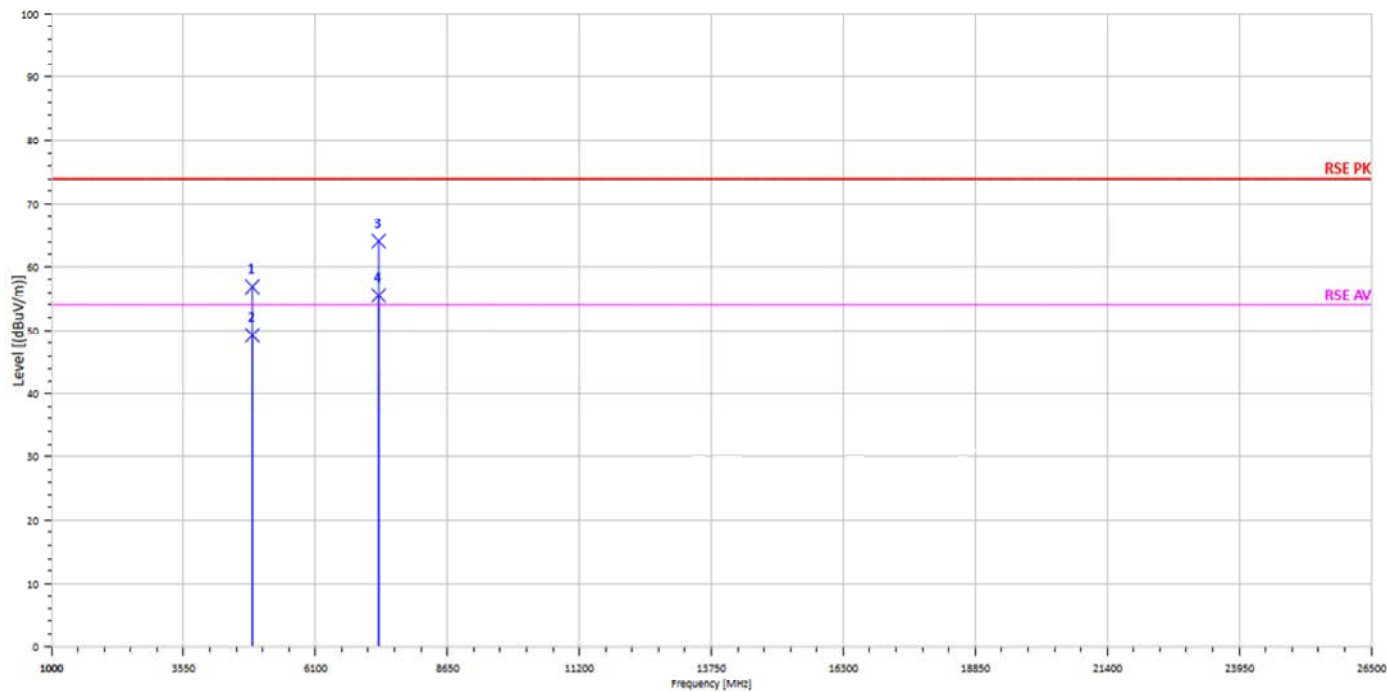
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Operation Mode :	BT BR	Test Date :	2018/4/2
Fundamental Frequency :	2441 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4882.00	S	Peak	57.59	-0.70	56.89	74	-17.11
4882.00	S	Average	49.89	-0.70	49.19	54	-4.81
7323.00	S	Peak	57.97	6.11	64.08	74	-9.92
7323.00	S	Average	49.42	6.11	55.53	54	1.53

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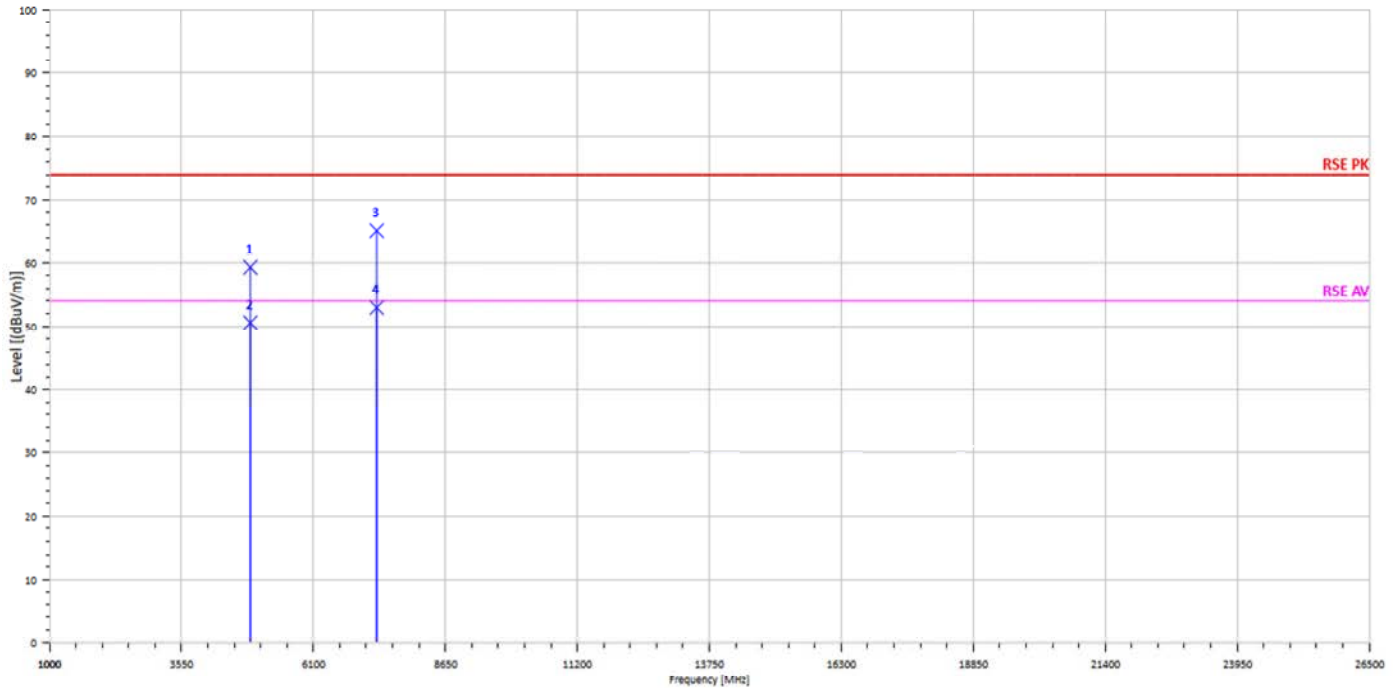
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Operation Mode : BT BR Test Date : 2018/4/2
Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4882.00	H	Peak	59.97	-0.70	59.27	74	-14.73
4882.00	H	Average	51.26	-0.70	50.56	54	-3.44
7323.00	H	Peak	58.95	6.11	65.06	74	-8.94
7323.00	H	Average	46.84	6.11	52.95	54	-1.05

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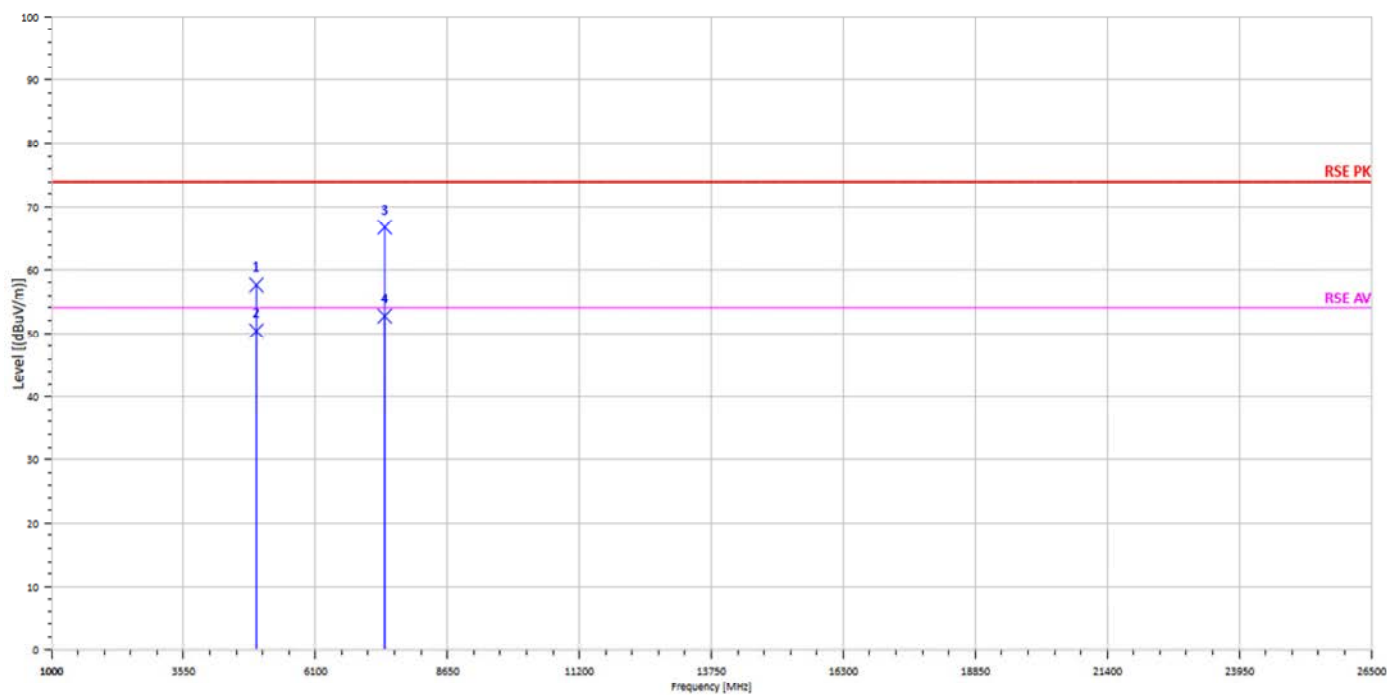
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Operation Mode :	BT BR	Test Date :	2018/4/2
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4960.00	S	Peak	58.32	-0.66	57.66	74	-16.34
4960.00	S	Average	51.03	-0.66	50.37	54	-3.63
7440.00	S	Peak	60.56	6.19	66.75	74	-7.25
7440.00	S	Average	46.52	6.19	52.71	54	-1.29

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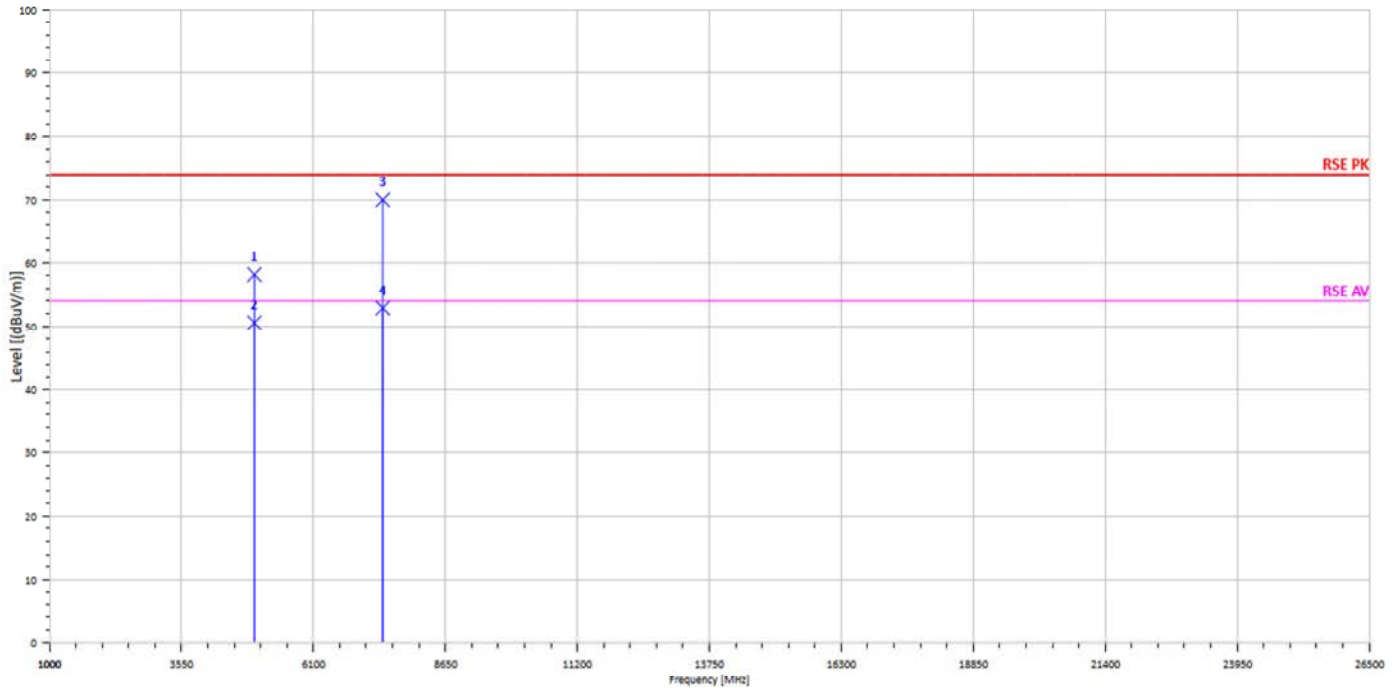
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Operation Mode :	BT BR	Test Date :	2018/4/2
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4960.00	H	Peak	58.83	-0.66	58.17	74	-15.83
4960.00	H	Average	51.21	-0.66	50.55	54	-3.45
7440.00	H	Peak	63.84	6.19	70.02	74	-3.98
7440.00	H	Average	46.69	6.19	52.88	54	-1.12

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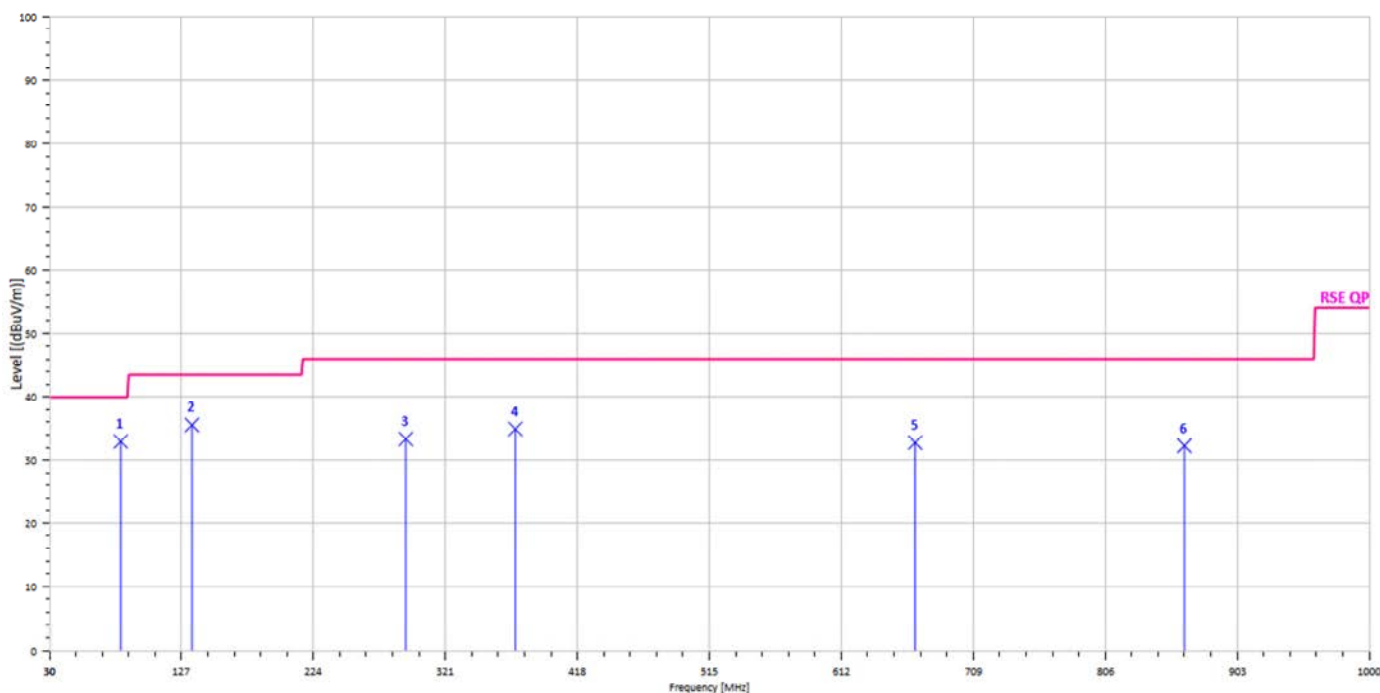
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6.5.3 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Operation Mode : BT BR Test Date : 2018/3/31
 Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Rx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
82.38	S	Peak	54.43	-21.49	32.94	40	-7.06
134.76	S	Peak	52.63	-17.06	35.57	43.5	-7.93
291.90	S	Peak	48.78	-15.45	33.34	46	-12.66
372.41	S	Peak	48.54	-13.60	34.94	46	-11.06
666.32	S	Peak	41.24	-8.48	32.76	46	-13.24
864.20	S	Peak	38.48	-6.22	32.27	46	-13.73

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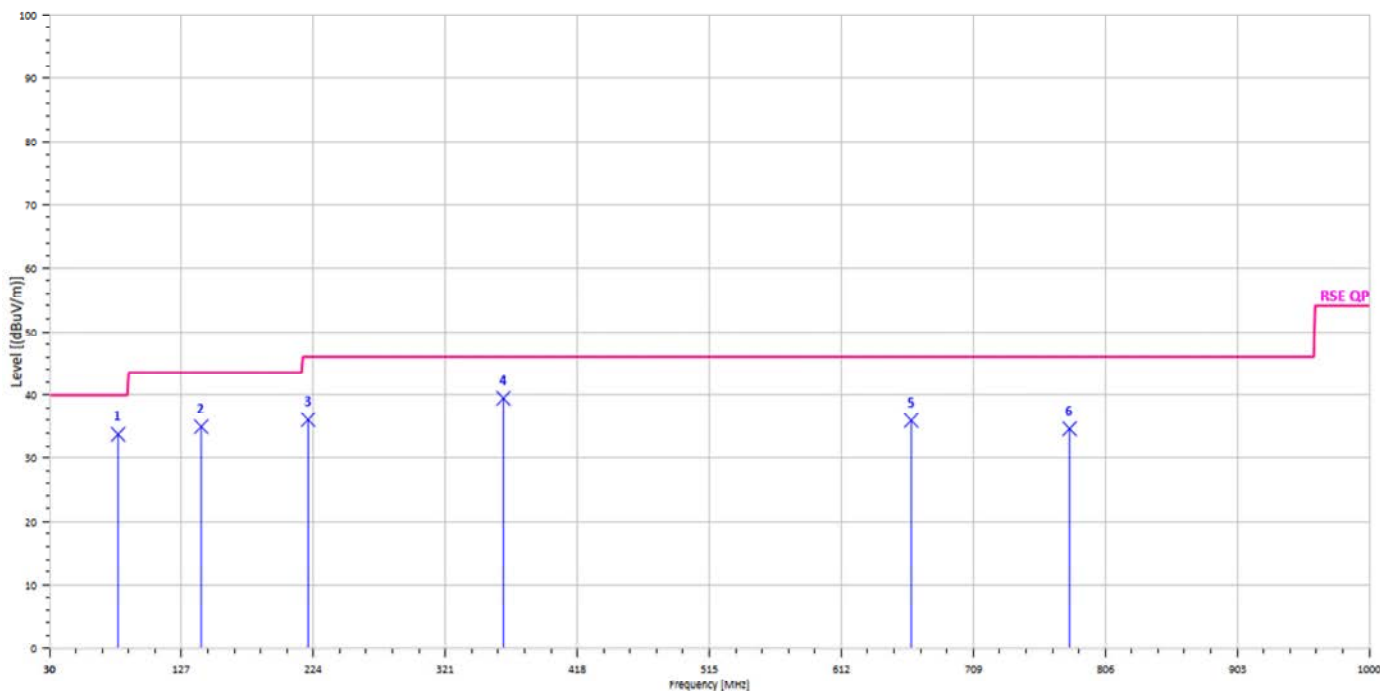
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Operation Mode : BT BR Test Date : 2018/3/31
Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Rx CH Mid Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
80.44	S	Peak	54.96	-21.16	33.81	40	-6.19
141.55	S	Peak	51.37	-16.36	35.01	43.5	-8.49
220.12	S	Peak	54.77	-18.65	36.11	46	-9.89
363.68	S	Peak	53.38	-13.89	39.48	46	-6.52
663.41	S	Peak	44.31	-8.32	35.99	46	-10.01
779.81	S	Peak	41.34	-6.66	34.68	46	-11.32

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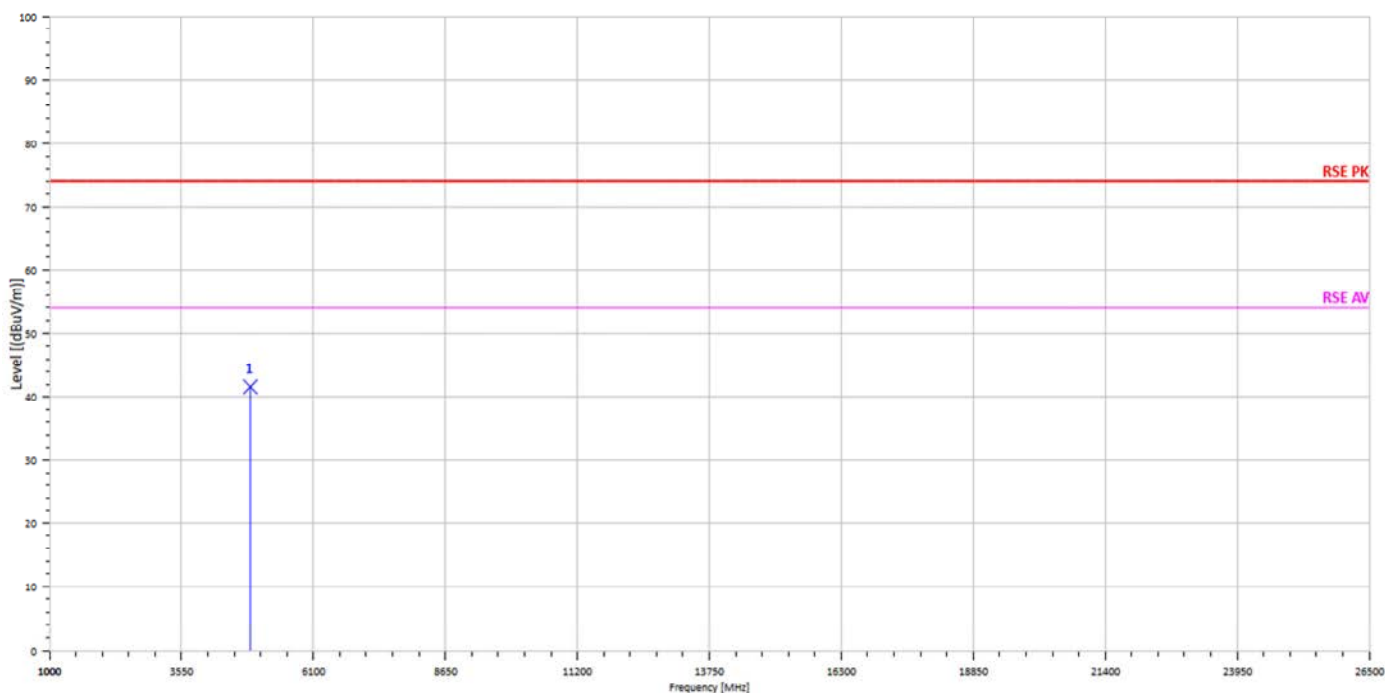
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6.5.4 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Operation Mode :	BT BR	Test Date :	2018/4/2
Fundamental Frequency :	2441 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Rx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4882.00	H	Peak	42.32	-0.70	41.62	74	-32.38

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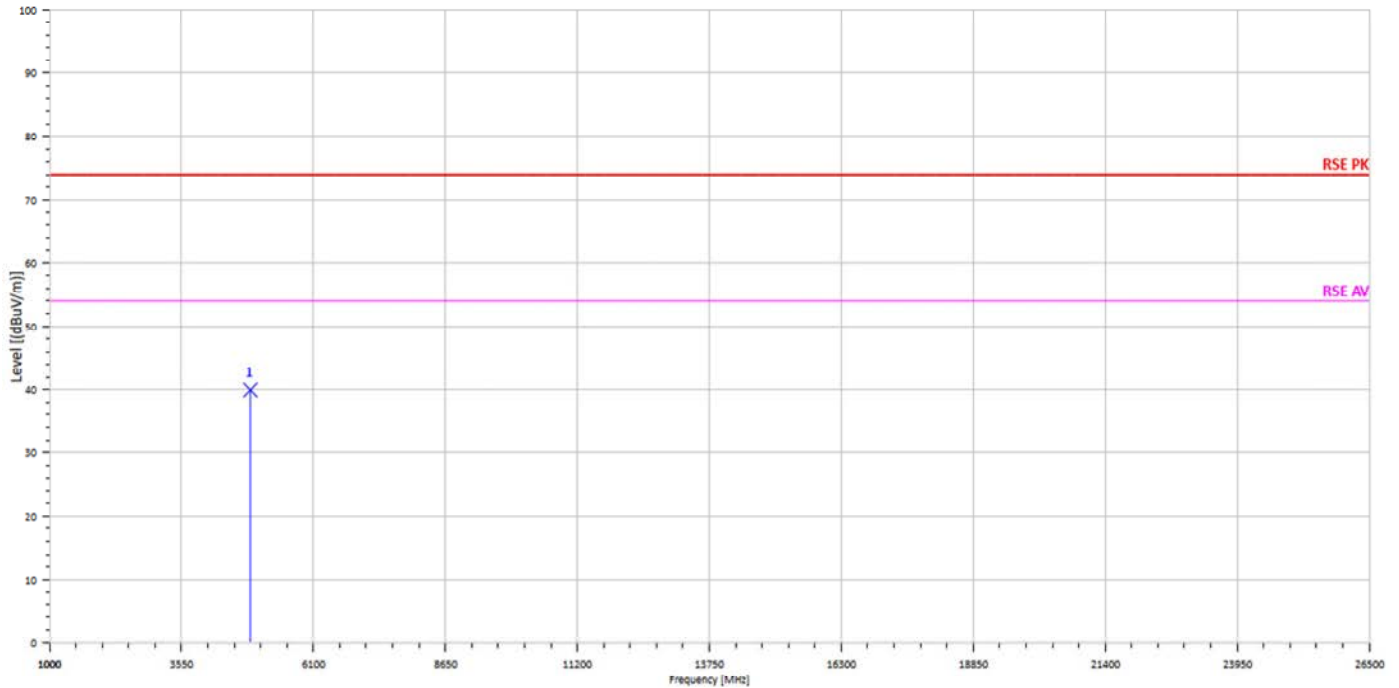
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Operation Mode : BT BR Test Date : 2018/4/2
Fundamental Frequency : 2441 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Rx CH Mid Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4882.00	H	Peak	40.67	-0.70	39.97	74	-34.03

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7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.3之規定，進行固定式點對點操作時，應符合下列情現之一：依據NCC低功率射頻電機技術規範3.10.1.3 (1)之規定，操作頻率為2400-2483.5兆赫(MHz)者，其發射天線之方向性增益超過6dBi，每超過3dB應降低1dB之最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (2)之規定，操作頻率為5725-5850兆赫(MHz)者，其發射天線之方向性增益超過6dBi，不需降低最大傳導輸出功率。

依據NCC低功率射頻電機技術規範3.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

7.2 天線增益

此裝置使用Chip Antenna, peak gain: 2.5 dBi，請參考附件天線規格書。

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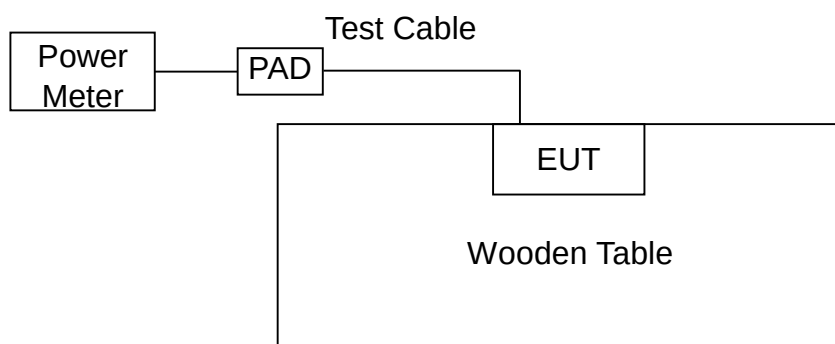
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8 輸出峰值功率之量測

8.1 適用標準

依據 NCC 低功率射頻電機技術規範 3.10.1.2 (A)之規定，操作於 2400-2483.5 MHz，並至少使用 75 個跳頻頻道之跳頻系統，其峰值輸出功率不得大於 1 Watt。除前項 3.10.1.2 (A) 以外，依 3.10.1.6(2)(B)其他限制事項 3.10.1.6(1)(A)，所有操作於 2400-2483.5 兆赫(MHz)之跳頻系統：0.125 瓦(W)(含)以下，且其所使用天線之增益不可大於 6dBi；若使用大於 6dBi 增益之天線，則其輸出峰值功率相對需衰減天線增益所增加之量(單位為 dB)。

8.2 輸出功率之測試配置



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8.3 輸出功率之量測結果

測試設備: 藍牙耳機

型號: FETEPRCBK

環境溫度: 20°C

環境濕度: 65%

測試者:

黃威豪

1M BR mode (Peak):

Channel	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	1.50	1.413	1000
39	2441.00	2.26	1.683	1000
78	2480.00	2.30	1.698	1000

1M BR mode (Average): Tune up tolerance $\pm$ dBm

Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	1.30	1.349	1000
39	2441.00	2.13	1.633	1000
78	2480.00	2.21	1.663	1000

2M EDR mode (Peak):

Channel	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	0.22	1.052	125
39	2441.00	1.62	1.452	125
78	2480.00	1.85	1.531	125

2M EDR mode (Average): Tune up tolerance $\pm$ dBm

Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	-1.93	0.641	125
39	2441.00	-0.34	0.925	125
78	2480.00	0.41	1.099	125

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3M EDR mode (Peak):

Channel	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	0.36	1.086	125
39	2441.00	1.80	1.514	125
78	2480.00	1.98	1.578	125

3M EDR mode (Average): Tune up tolerance $\pm$ dBm

Channel	Frequency (MHz)	Max. Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
0	2402.00	-1.94	0.640	125
39	2441.00	-1.05	0.785	125
78	2480.00	-0.44	0.904	125

***offset: 10.5dB**

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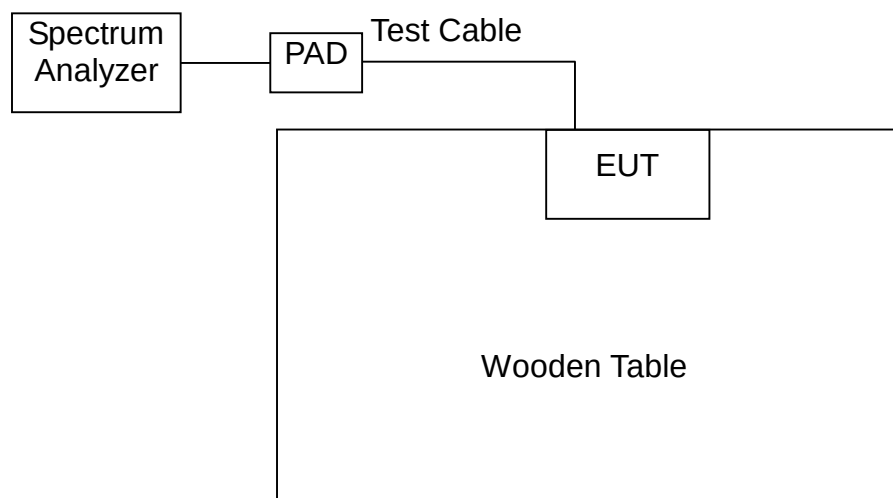
9 開放頻帶邊緣 100KHZ 頻寬內之限制

9.1 適用標準

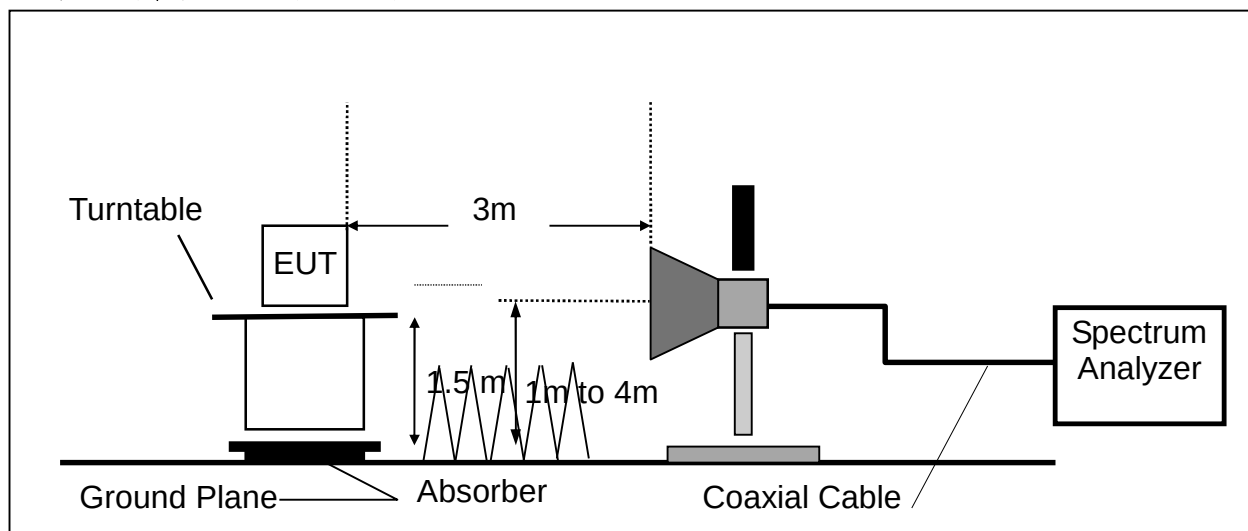
依據 NCC 低功率射頻電機技術規範 3.10.1.5 之規定，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫內的射頻功率，須衰減 20 分貝(dB)。

9.2 開放頻帶邊緣之測試配置

a. 頻帶外發射傳導量測值



b. 禁用頻帶輻射量測值之測試配置



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9.3 開放頻帶邊緣之量測結果

測試設備: 藍牙耳機

環境溫度: 20°C

解析 頻寬: 100kHz

Span: Low: 110MHz / High: 25MHz

型號: FETEPRCBK

環境濕度: 65%

視訊頻寬: 300kHz

測試者:

黃威豪

9.3.1 頻帶外發射傳導量測值

發射限制測試值 CH-1(下邊緣頻帶): 在 2400.00MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

發射限制測試值 CH-79(上邊緣頻帶): 在 2483.5MHz 之 100kHz 頻寬內最大值皆比主波低 20dB 以上。

請參考附圖。

註: 此裝置有 EDR 功能, 因比較 BR mode 及 EDR mode 測試值後發現 BR mode 為最差模式, 故附上最差模式 BR mode 數據。

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

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

“F”: denotes Fundamental Frequency. ; “H”: denotes Harmonic Frequency.

“E”: denotes Band Edge Frequency. ; “S”: denotes Spurious Frequency.

“---”: denotes Noise Floor.

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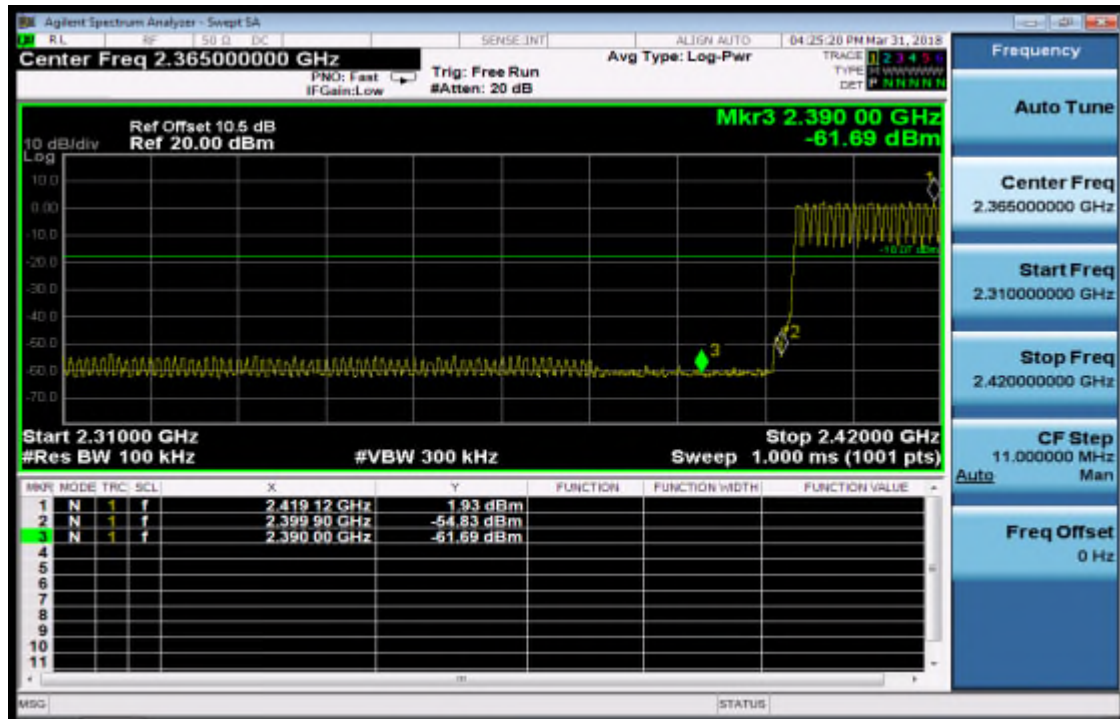
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禁用頻帶及邊際頻帶傳導測試 (Hopping)

GFSK

CH Low



CH High



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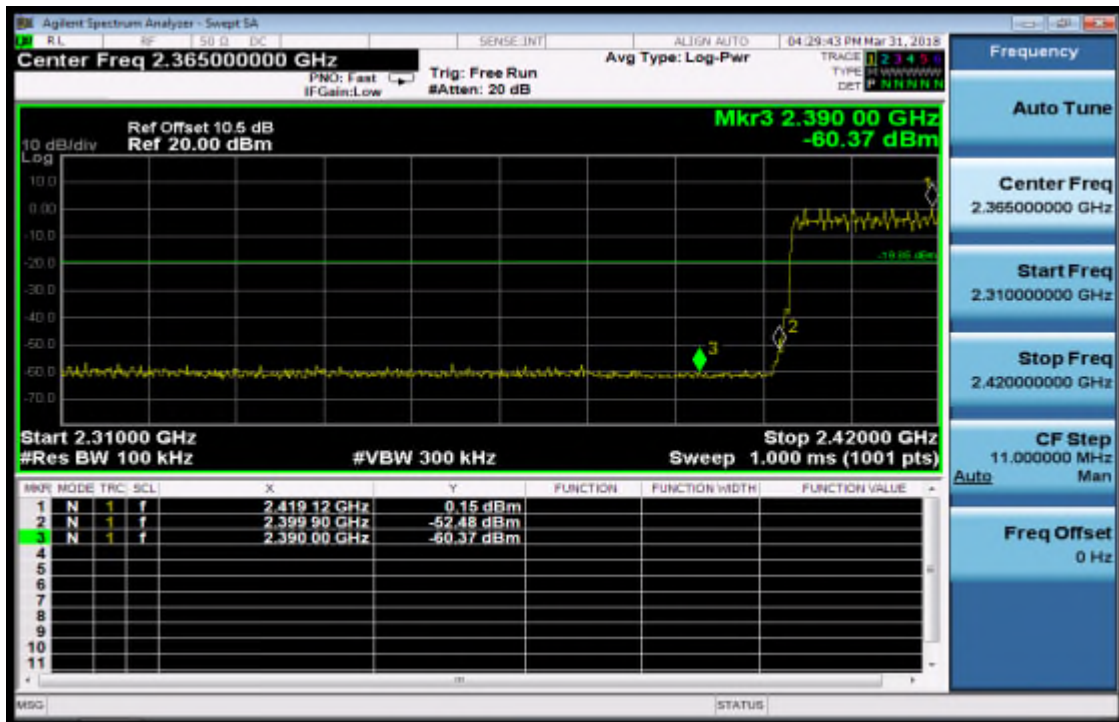
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8DPSK CH LOW



CH High



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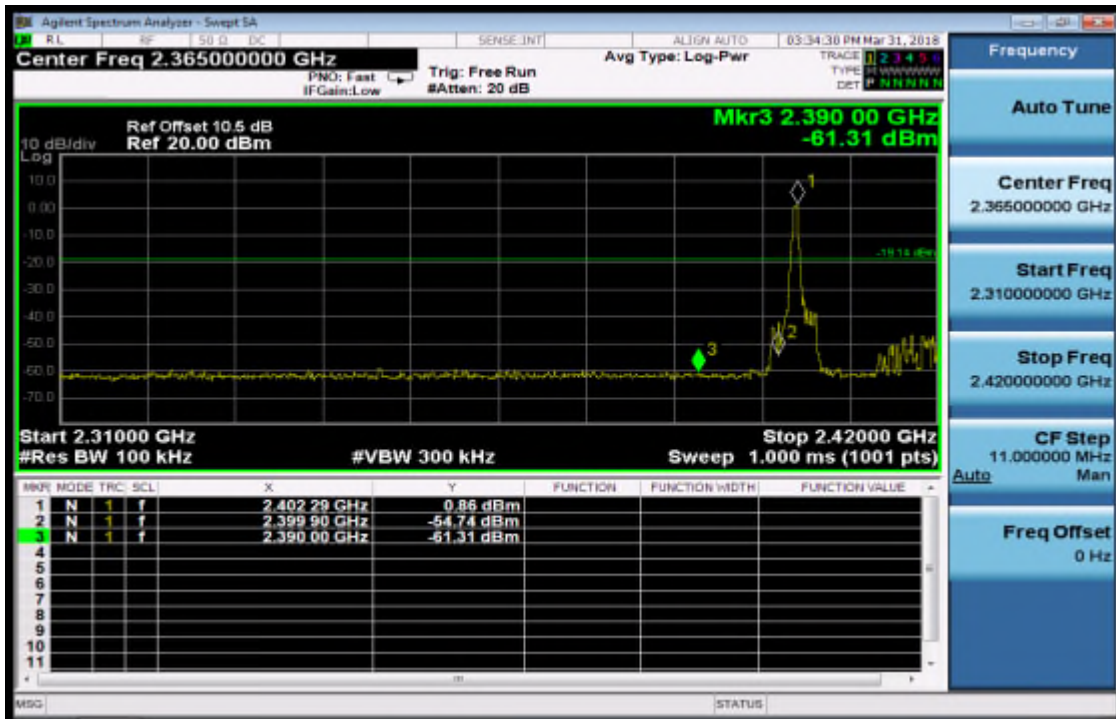
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GFSK

CH Low



CH High



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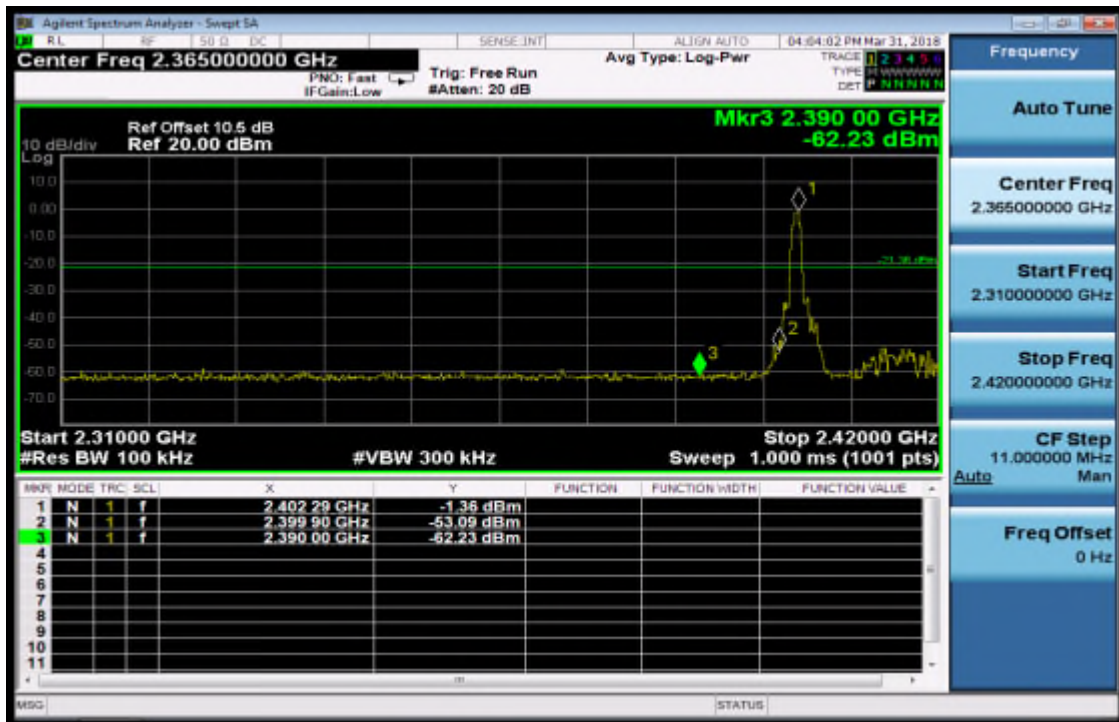
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8DPSK CH LOW



CH High



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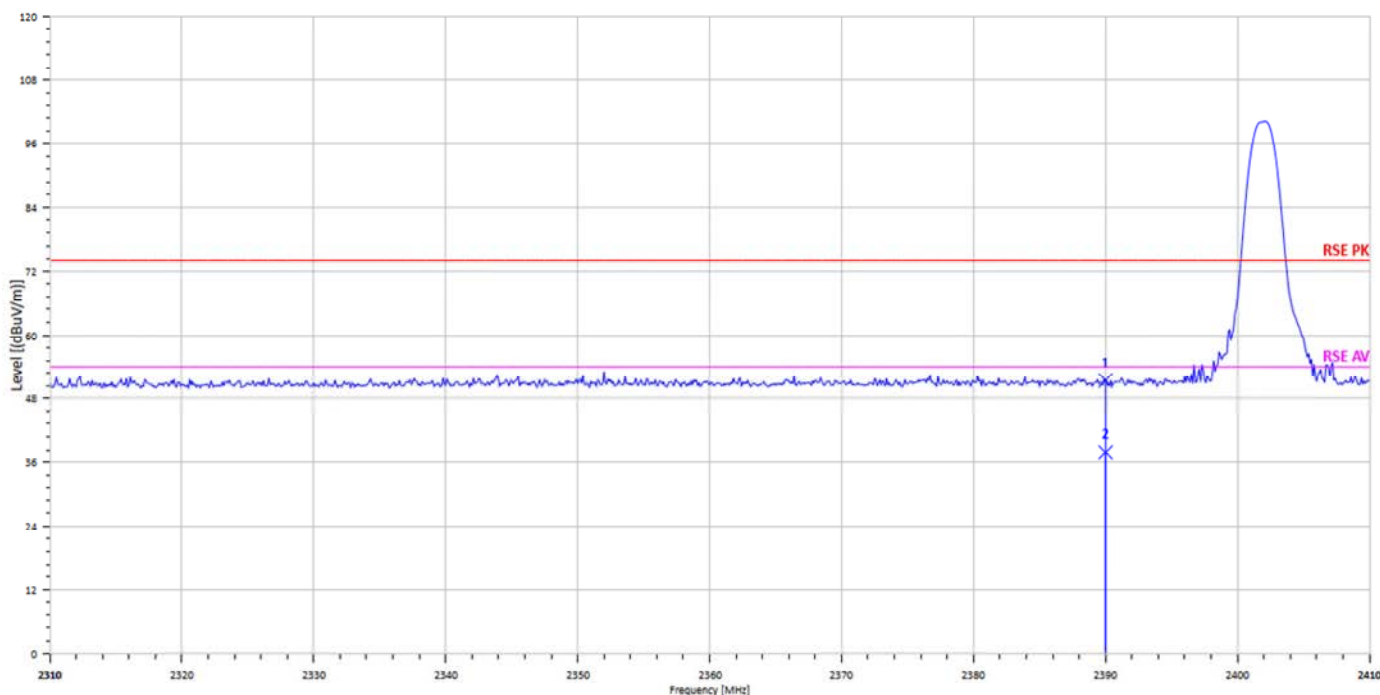
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9.3.2 禁用頻帶輻射量測值

Non-Hopping Mode

Operation Mode :	BT BR	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	58.25	-6.84	51.40	74	-22.60
2390.00	E	Average	44.73	-6.84	37.89	54	-16.11

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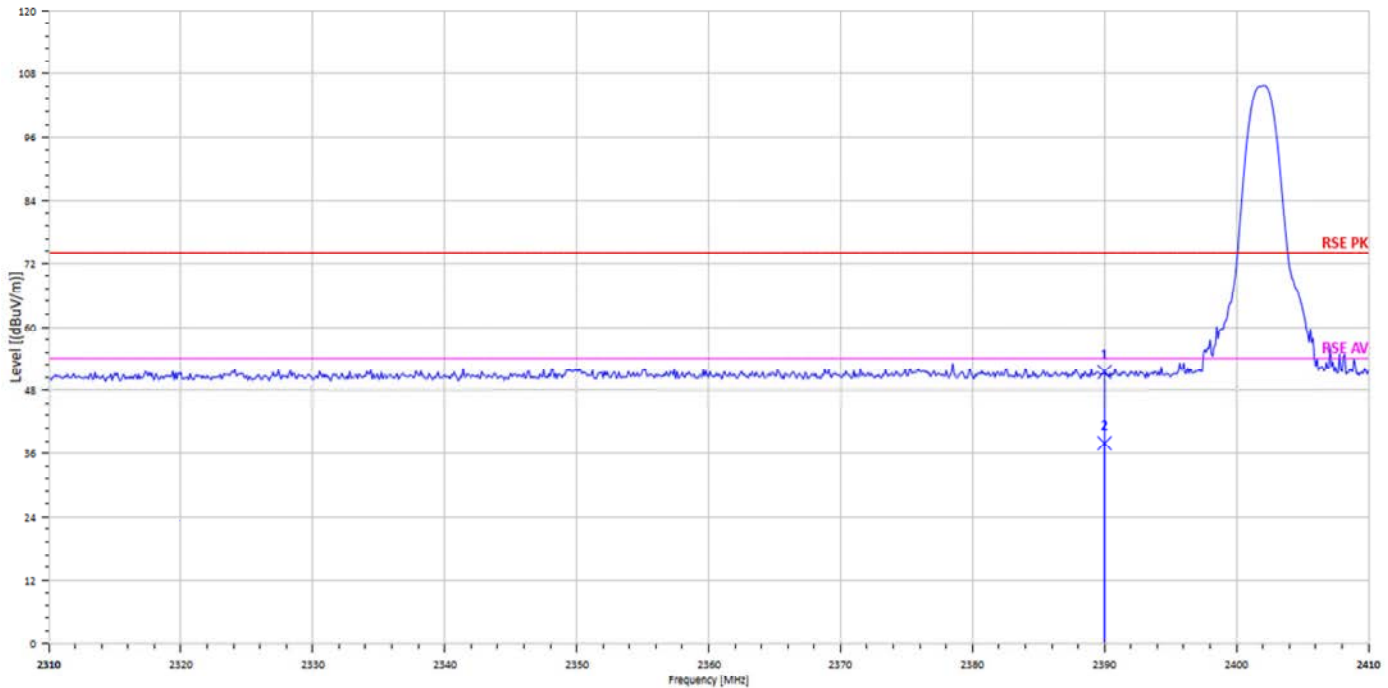
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Operation Mode :	BT BR	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	58.27	-6.84	51.43	74	-22.57
2390.00	E	Average	44.78	-6.84	37.94	54	-16.06

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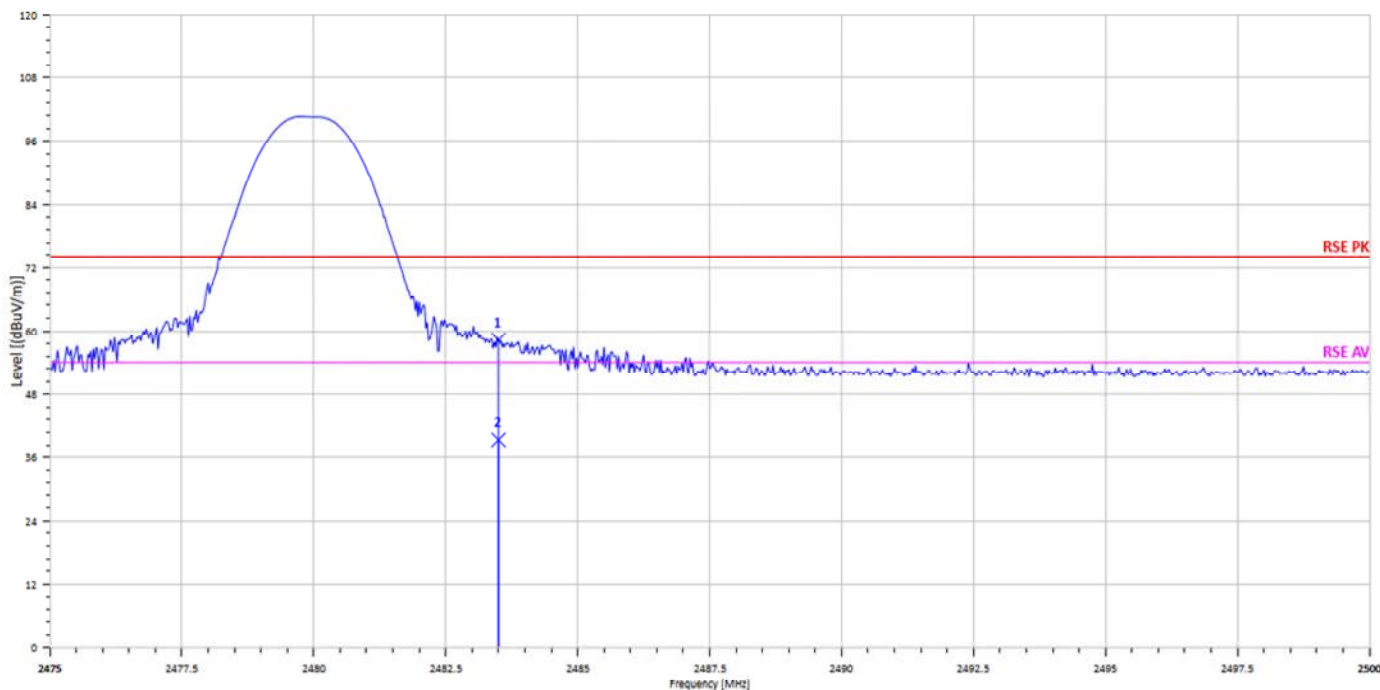
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Operation Mode :	BT BR	Test Date :	2018/3/31
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	64.64	-6.38	58.26	74	-15.74
2483.50	E	Average	45.77	-6.38	39.38	54	-14.62

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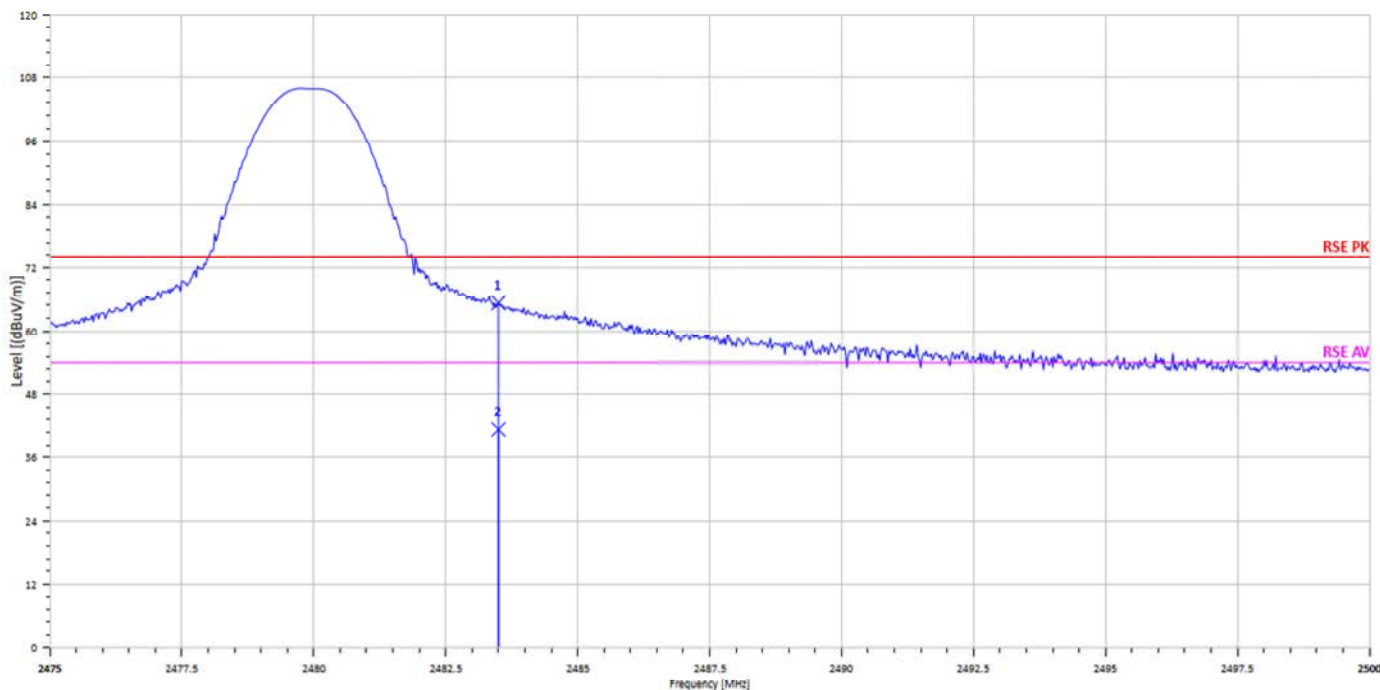
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Operation Mode :	BT BR	Test Date :	2018/3/31
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	71.64	-6.38	65.26	74	-8.74
2483.50	E	Average	47.73	-6.38	41.35	54	-12.65

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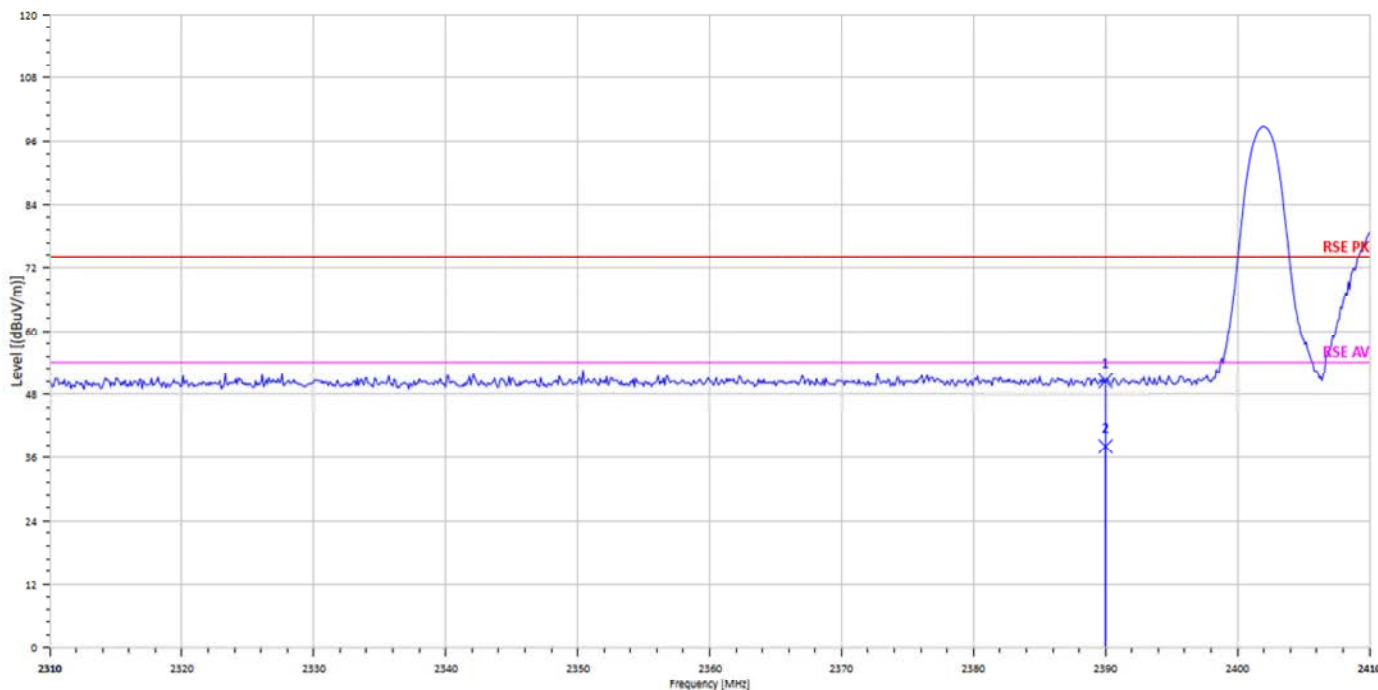
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Operation Mode :	BT EDR	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	57.34	-6.84	50.49	74	-23.51
2390.00	E	Average	44.96	-6.84	38.12	54	-15.88

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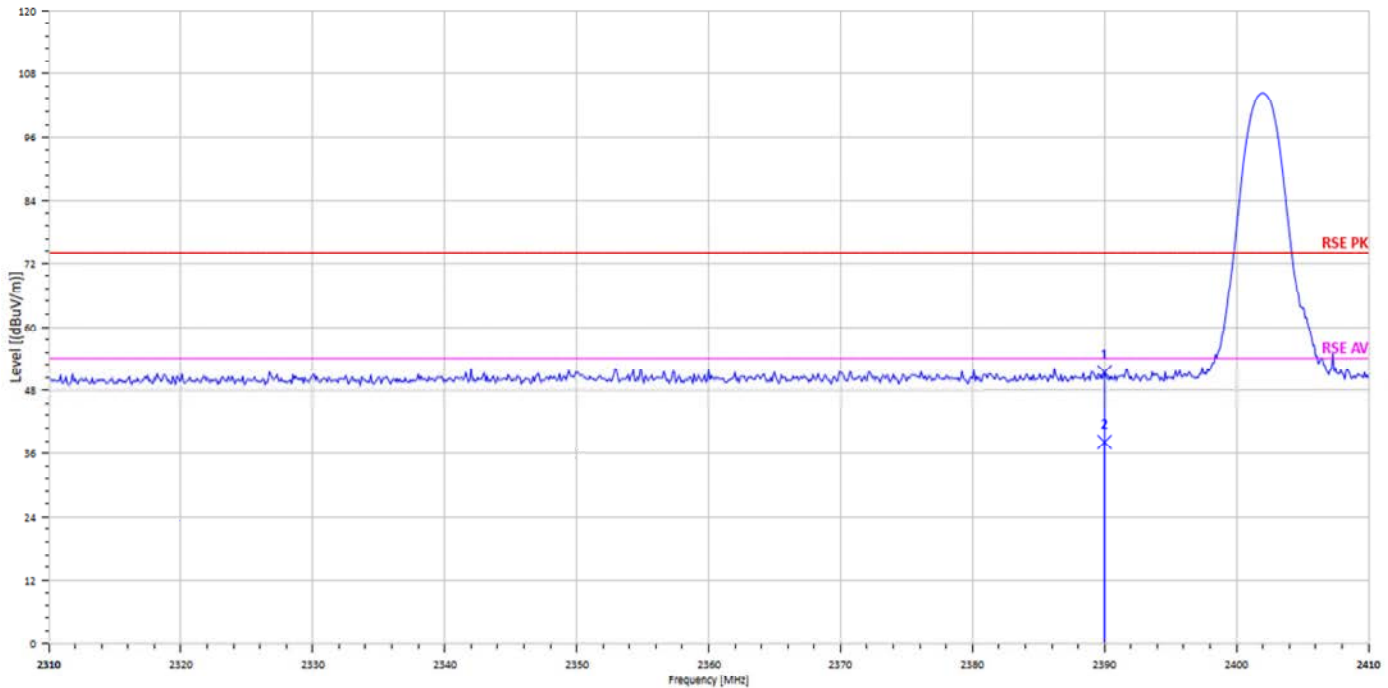
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Operation Mode :	BT EDR	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	58.19	-6.84	51.34	74	-22.66
2390.00	E	Average	45.00	-6.84	38.16	54	-15.84

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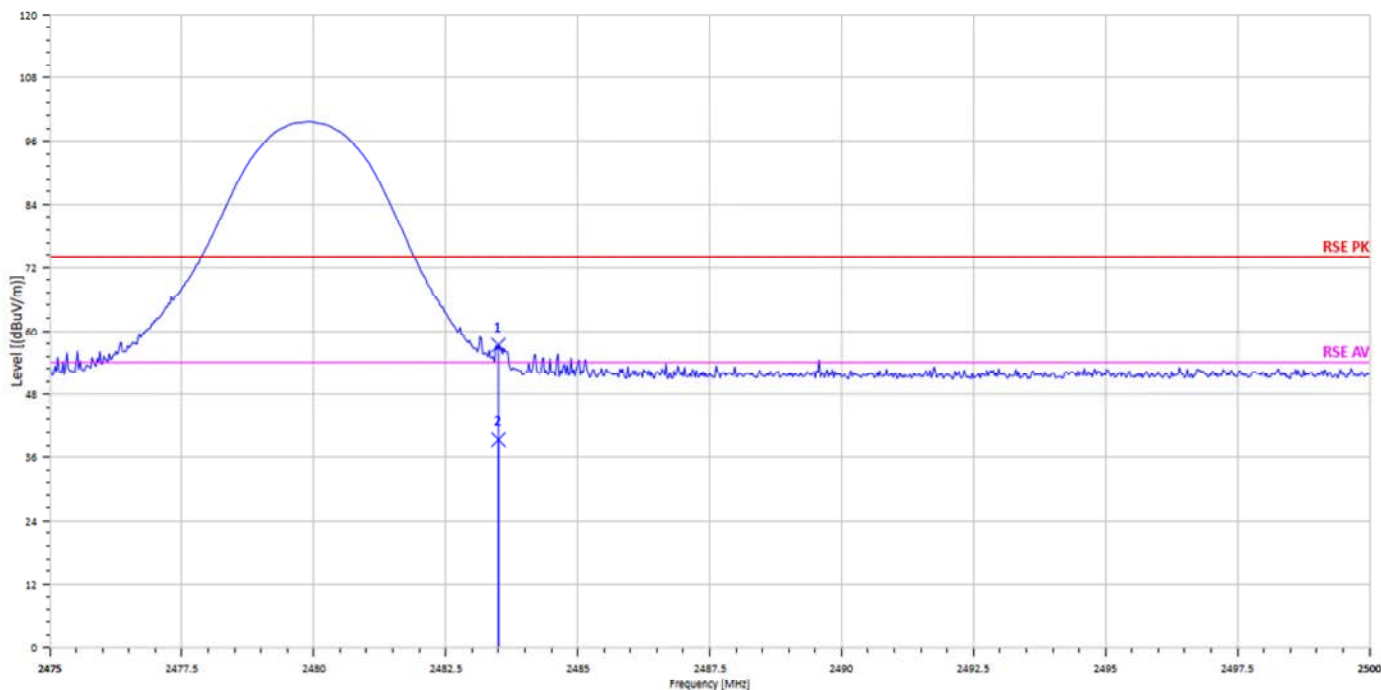
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Operation Mode :	BT EDR	Test Date :	2018/3/31
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	E	Peak	63.69	-6.38	57.31	74	-16.69
2483.50	E	Average	45.82	-6.38	39.44	54	-14.56

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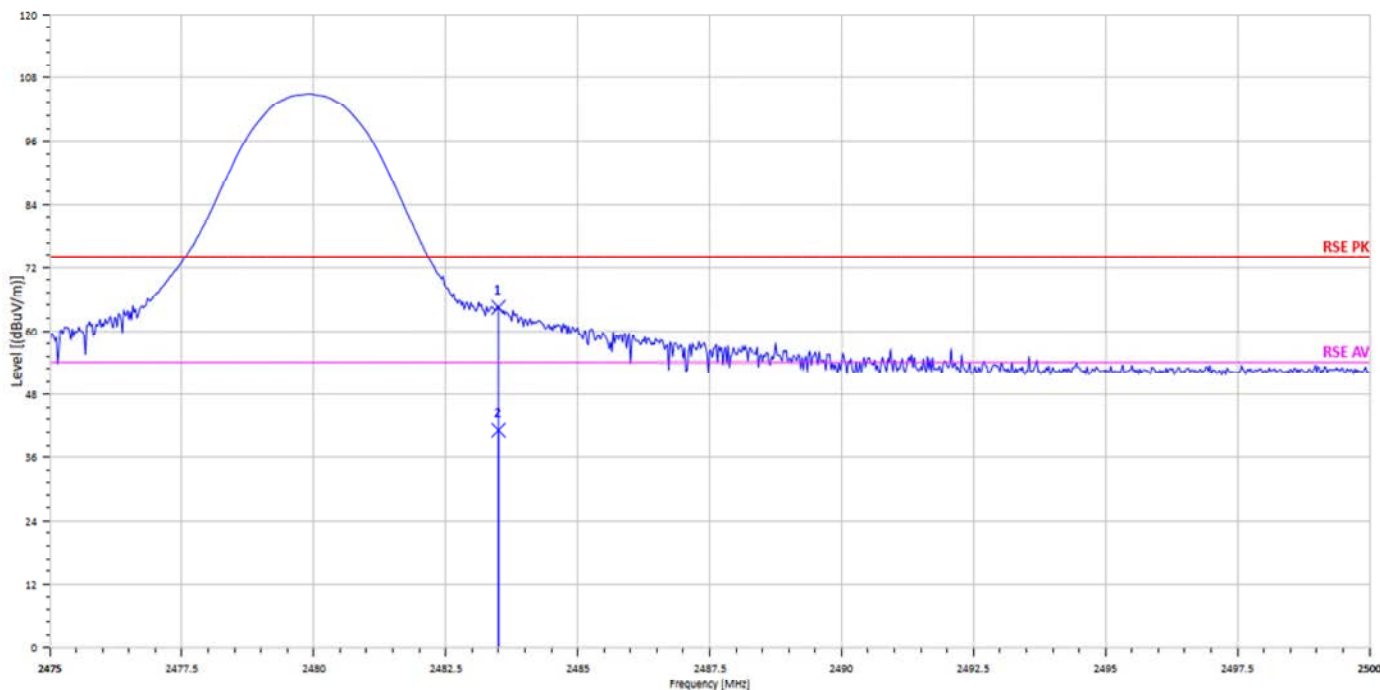
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Operation Mode :	BT EDR	Test Date :	2018/3/31
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	70.77	-6.38	64.38	74	-9.62
2483.50	E	Average	47.59	-6.38	41.21	54	-12.79

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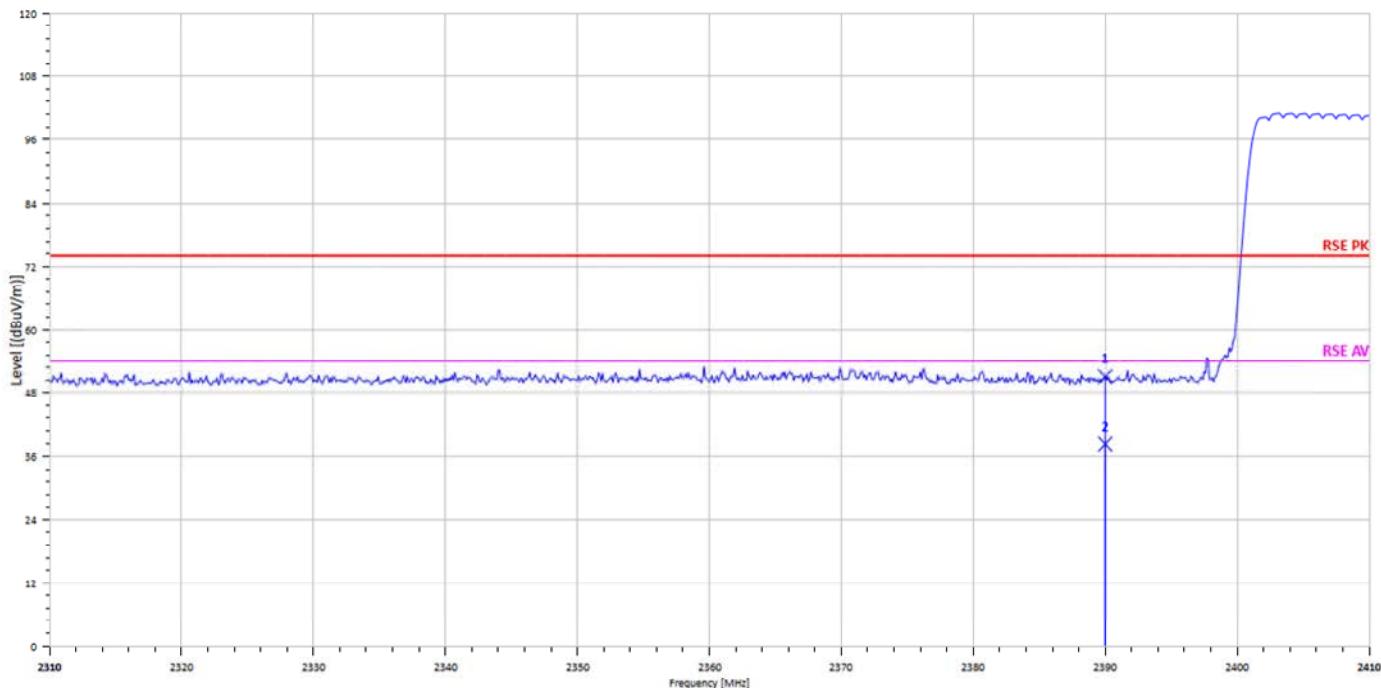
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Hopping Mode

Operation Mode :	BT BR Hopping	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	57.89	-6.84	51.05	74	-22.95
2390.00	E	Average	45.09	-6.84	38.24	54	-15.76

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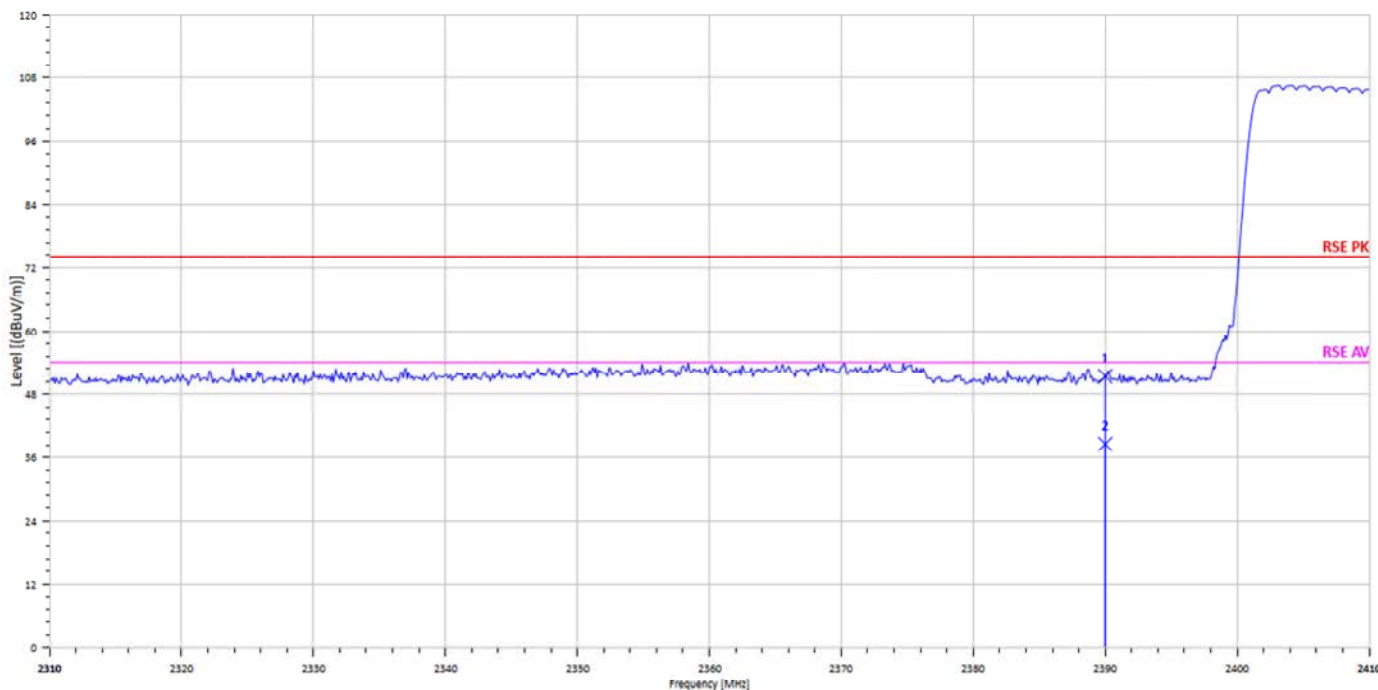
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Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	58.23	-6.84	51.38	74	-22.62
2390.00	E	Average	45.42	-6.84	38.57	54	-15.43

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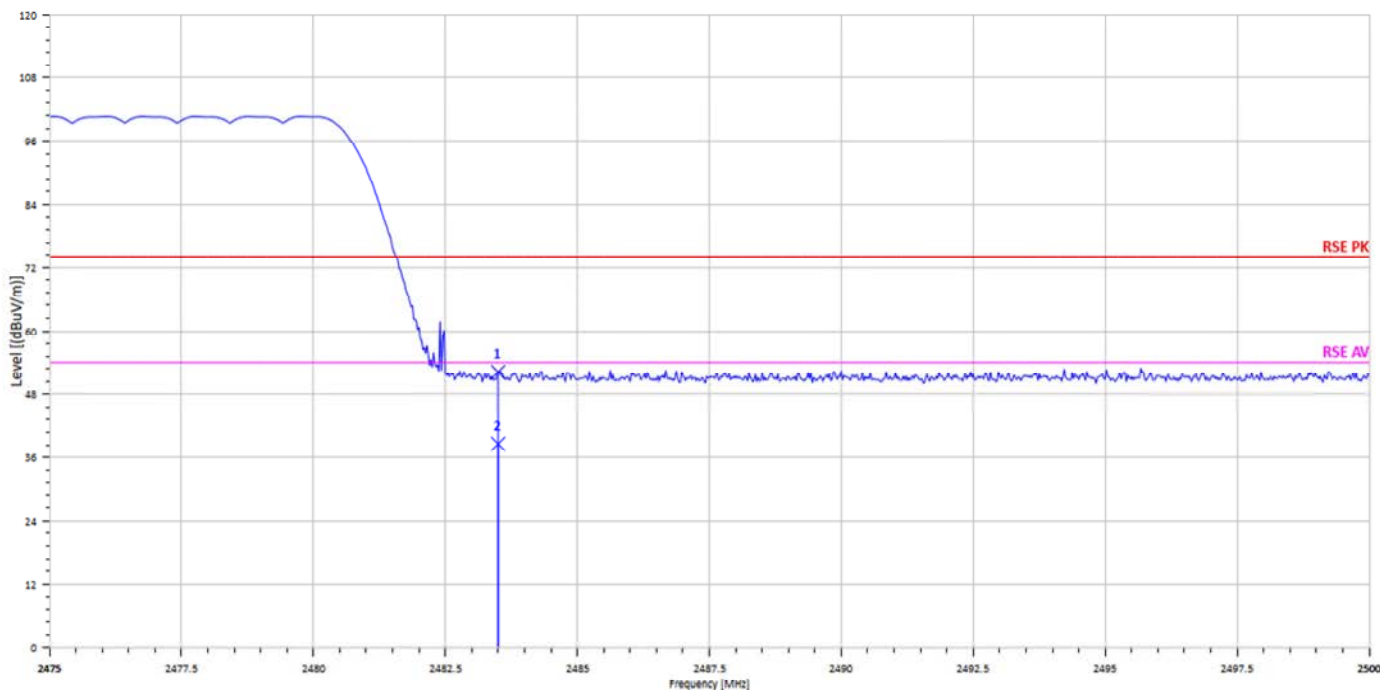
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f (886-2) 2298-0488

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Operation Mode :	BT BR Hopping	Test Date :	2018/3/31
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	E	Peak	58.54	-6.38	52.16	74	-21.84
2483.50	E	Average	44.97	-6.38	38.59	54	-15.41

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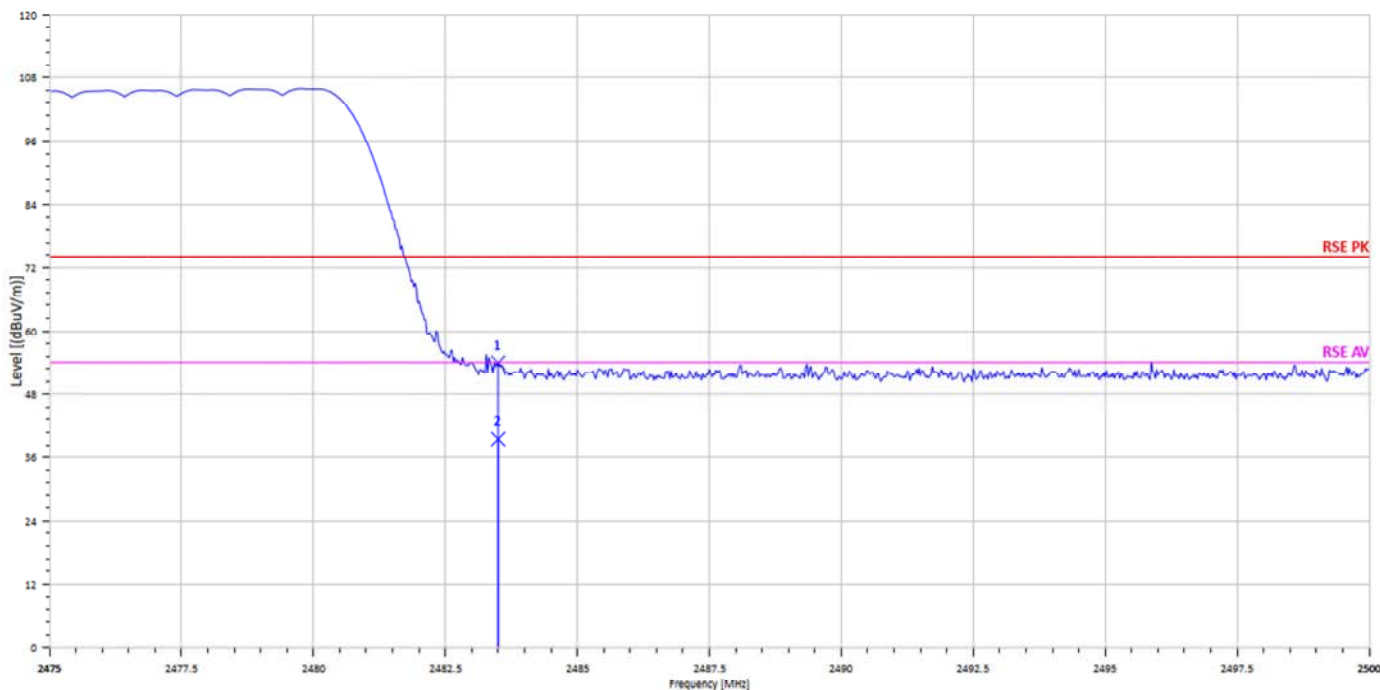
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Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	E	Peak	60.32	-6.38	53.94	74	-20.06
2483.50	E	Average	45.93	-6.38	39.54	54	-14.46

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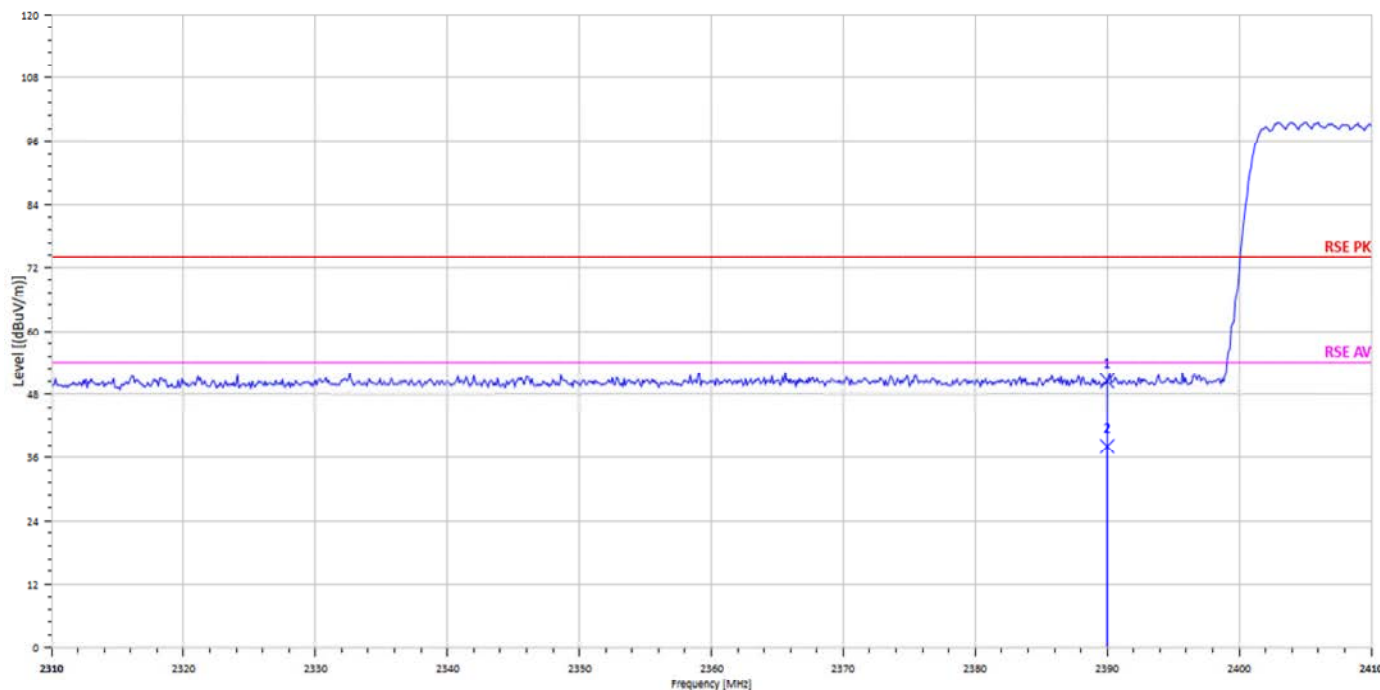
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Operation Mode :	BT EDR Hopping	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	57.31	-6.84	50.47	74	-23.53
2390.00	E	Average	44.96	-6.84	38.11	54	-15.89

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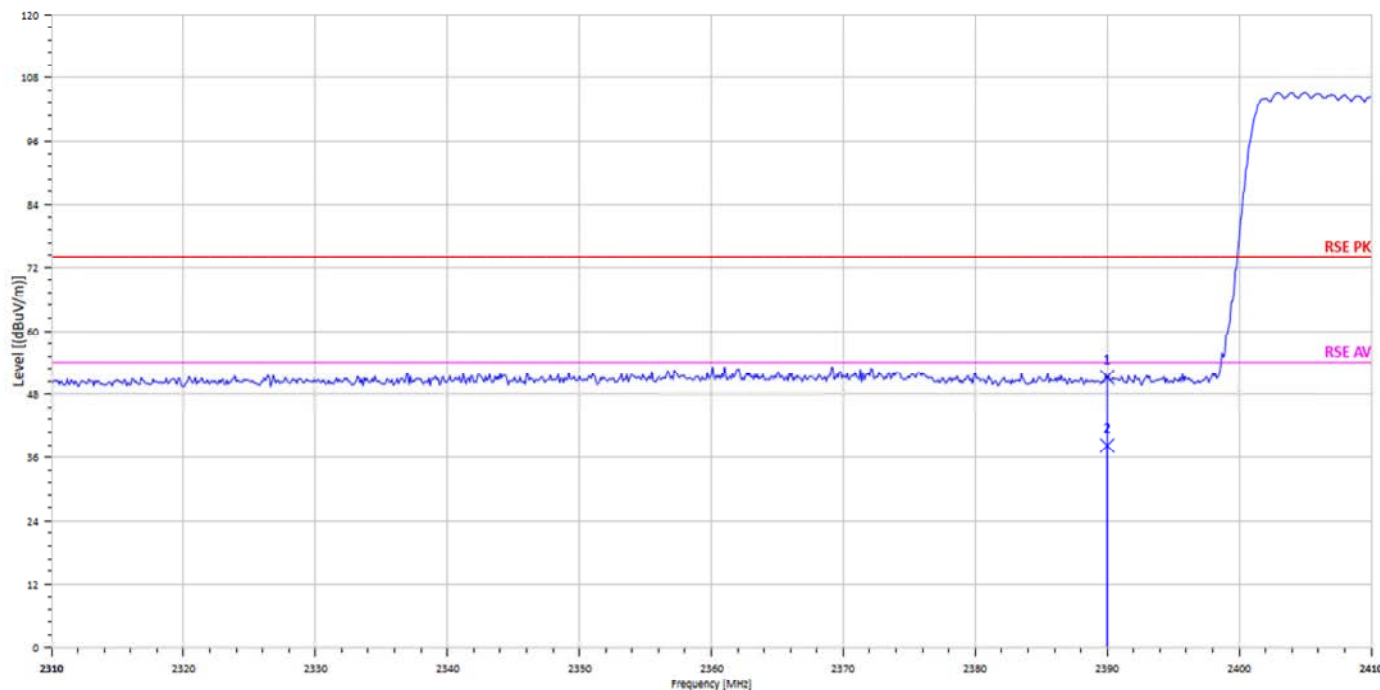
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Operation Mode :	BT EDR Hopping	Test Date :	2018/3/31
Fundamental Frequency :	2402 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2390.00	E	Peak	58.05	-6.84	51.21	74	-22.79
2390.00	E	Average	45.12	-6.84	38.27	54	-15.73

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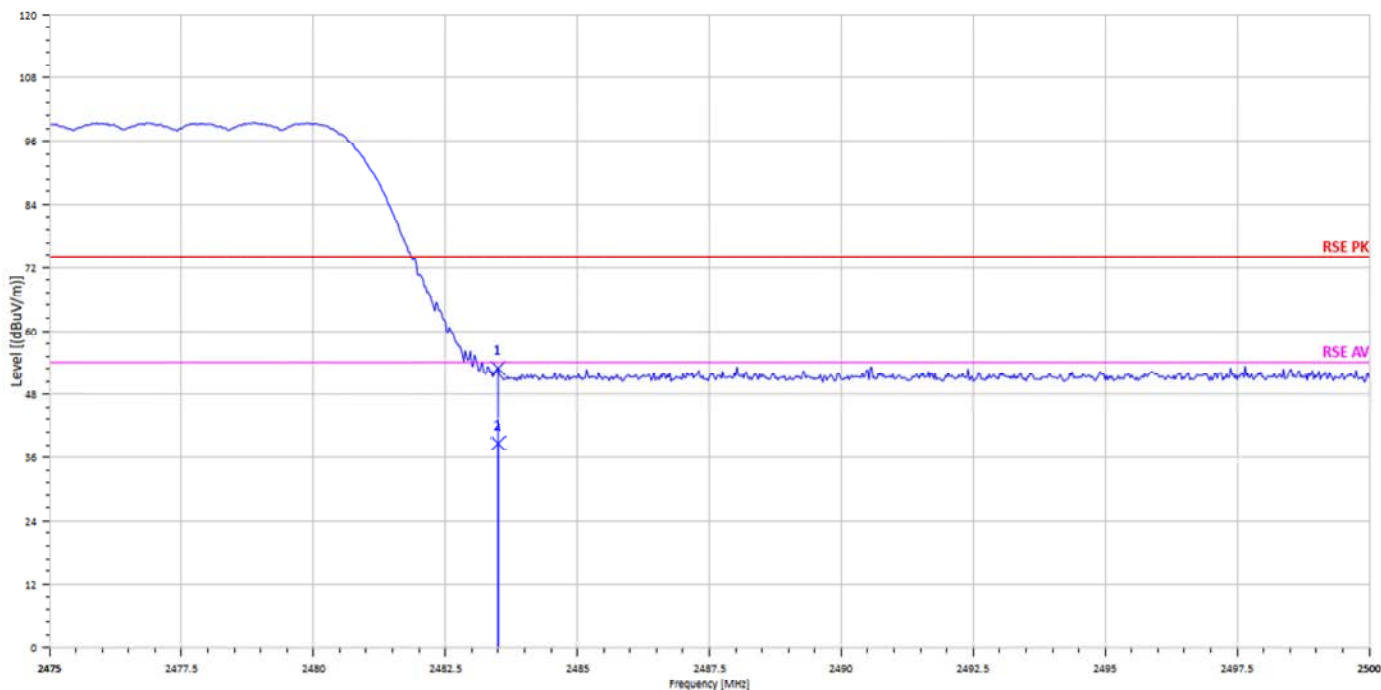
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Operation Mode :	BT EDR Hopping	Test Date :	2018/3/31
Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	E	Peak	59.26	-6.38	52.87	74	-21.13
2483.50	E	Average	45.06	-6.38	38.67	54	-15.33

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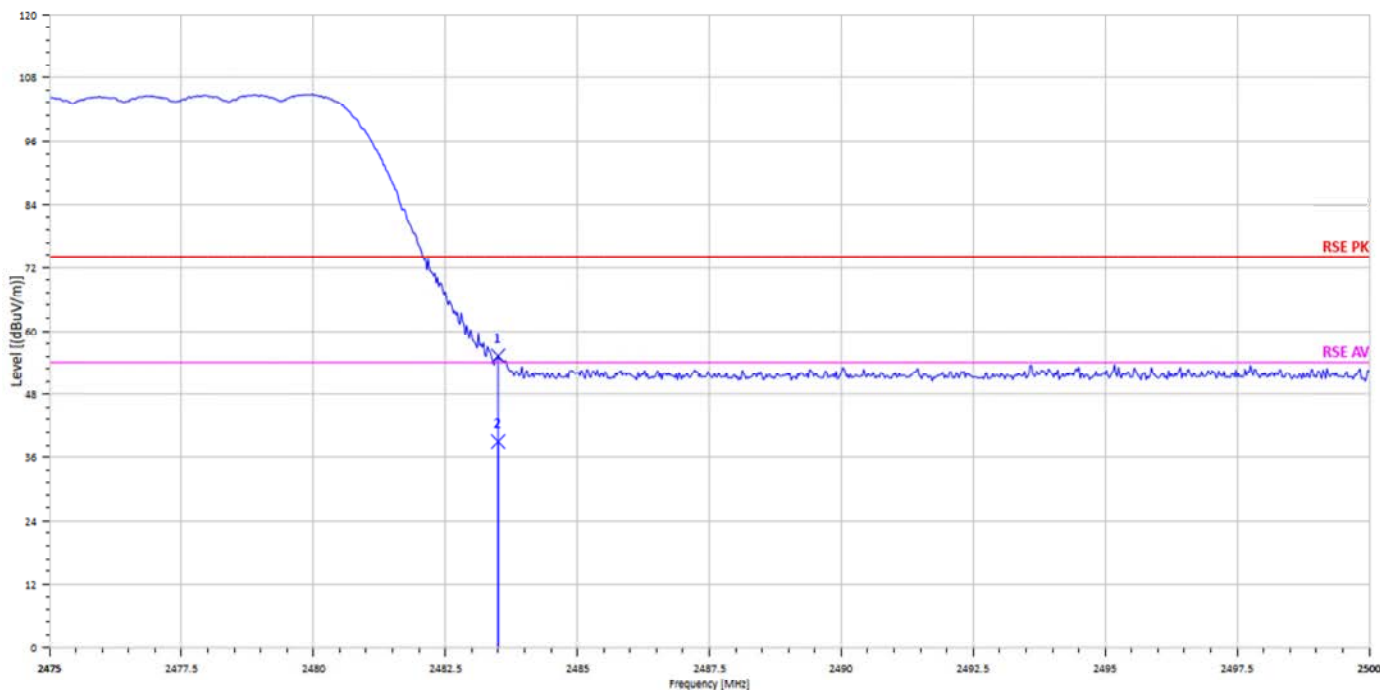
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Fundamental Frequency :	2480 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.50	E	Peak	61.63	-6.38	55.25	74	-18.75
2483.50	E	Average	45.47	-6.38	39.08	54	-14.92

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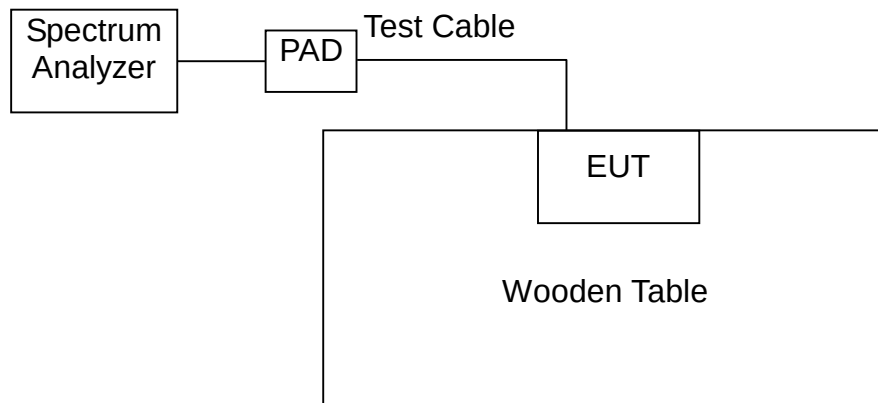
10 20dB 頻寬之要求

10.1 適用標準

NCC 低功率射頻電機技術規範 3.10.1.6(1)(A) 跳頻系統之載波頻率頻道間隔不得低於 25 千赫 (kHz)或跳頻頻道之 20dB 頻寬，兩者取較寬者。但操作頻率為 2400-2483.5 兆赫(MHz)頻帶且輸出功率不大於 125 毫瓦(mW)跳頻系統，其載波頻率頻道間隔不得小於 25 千赫 (kHz)或跳頻頻道 20dB 頻寬之三分之二，兩者取較寬者。系統之跳頻頻道應依虛擬亂數排列，在各頻率之跳頻頻道上跳躍。每一發射機必須均等的使用每一頻率。系統接收機應具有與發射機跳躍頻道頻寬相匹配之輸入頻寬，且應隨所發射之信號同步偏移接收頻率。

10.2 測試配置

圖 4: 發射頻寬之測試配置



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10.3 量測結果

測試設備: 藍牙耳機
 環境溫度: 20°C
 解析 頻寬: BR:10kHz
 EDR:15kHz
 Span: 3MHz

型號: FETEPRCBK
 環境濕度: 65%
 視訊頻寬: BR:30kHz
 EDR:47kHz
 測試者: 黃威豪

20dB Bandwidth: BR mode

CH	(MHz)
Lower	0.92282
Mid	0.92255
Higher	0.92291

20dB Bandwidth: EDR mode ($\pi/4$ -DQPSK)

CH	(MHz)	2/3 Bandwidth (MHz)
Lower	1.3105	0.87
Mid	1.3141	0.88
Higher	1.3162	0.88

20dB Bandwidth: EDR mode (8-DPSK)

CH	(MHz)	2/3 Bandwidth (MHz)
Lower	1.2678	0.85
Mid	1.269	0.85
Higher	1.2881	0.86

offset: 10.5dB**請參考附圖。**

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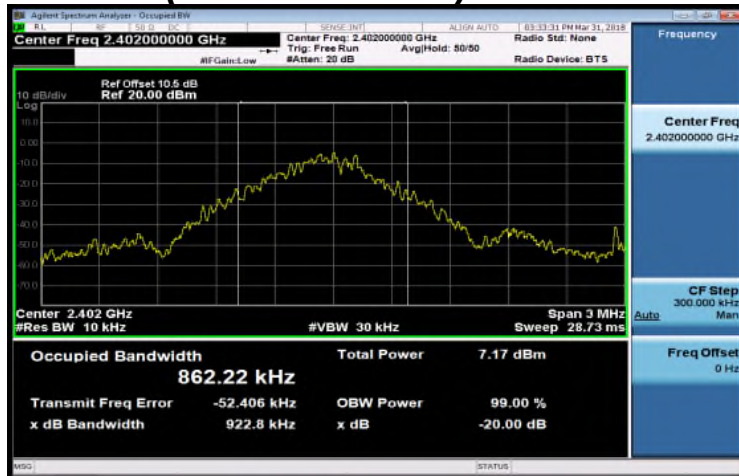
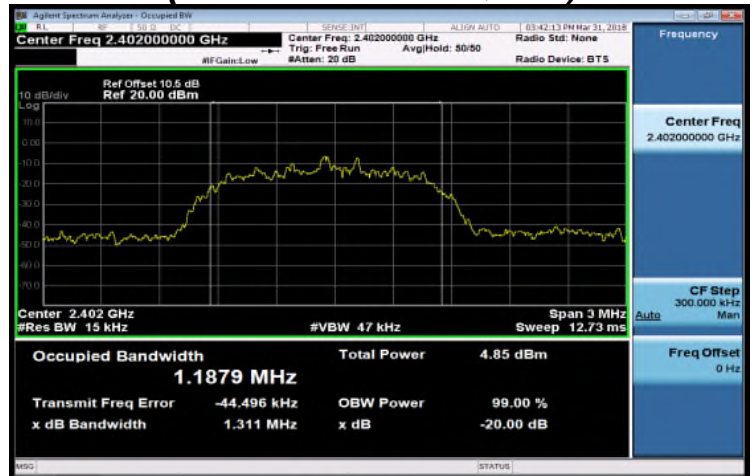
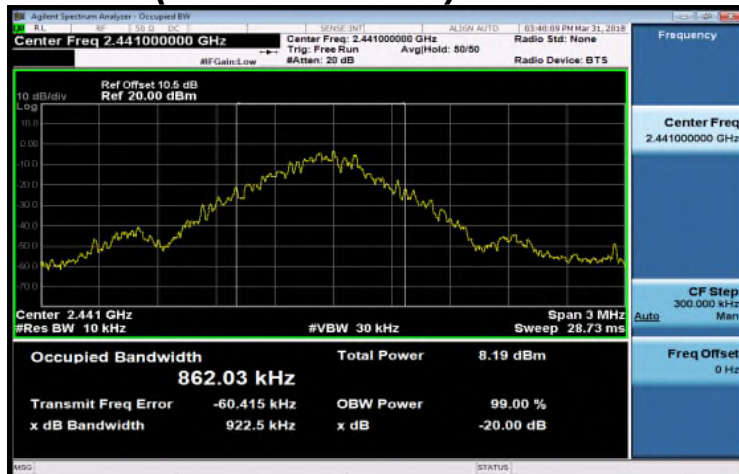
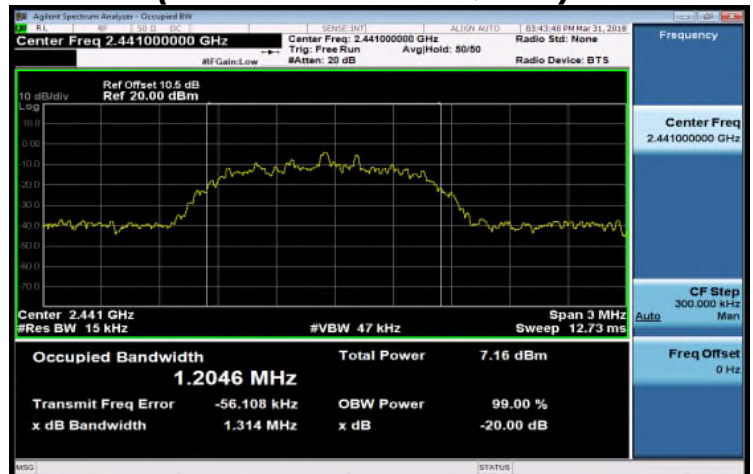
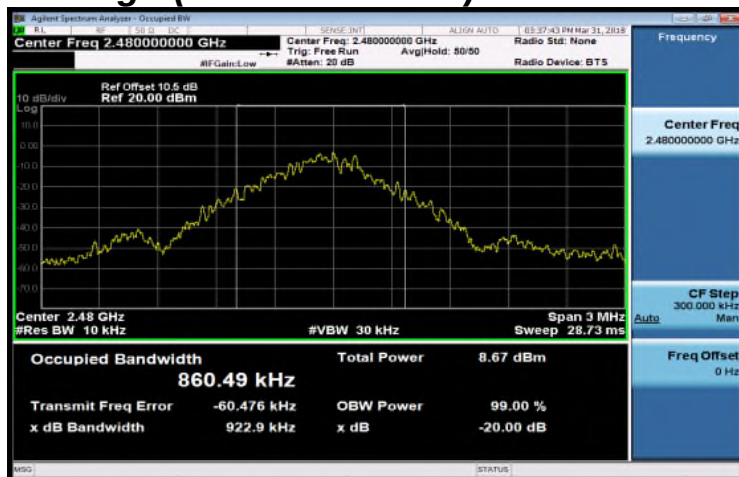
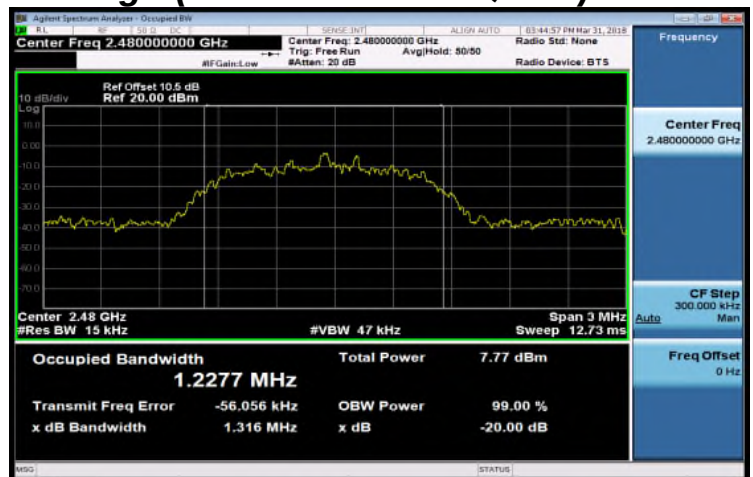
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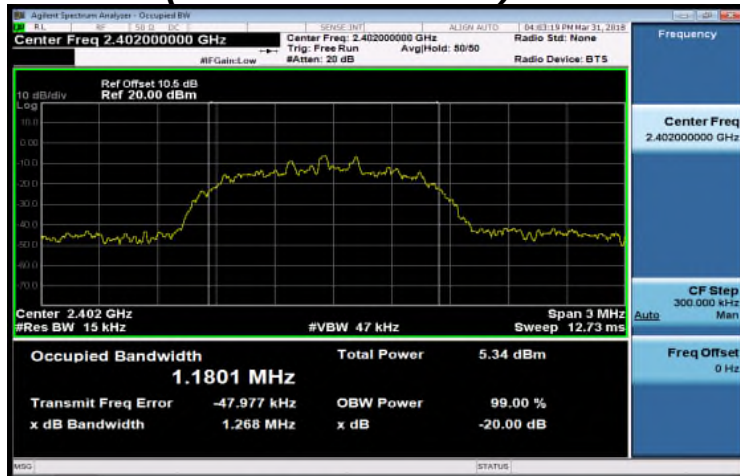
CH-Low (BR Mode GFSK)**CH-Low (EDR Mode $\pi/4$ DQPSK)****CH-Mid (BR Mode GFSK)****CH-Mid (EDR Mode $\pi/4$ DQPSK)****CH-High (BR Mode GFSK)****CH-High (EDR Mode $\pi/4$ DQPSK)**

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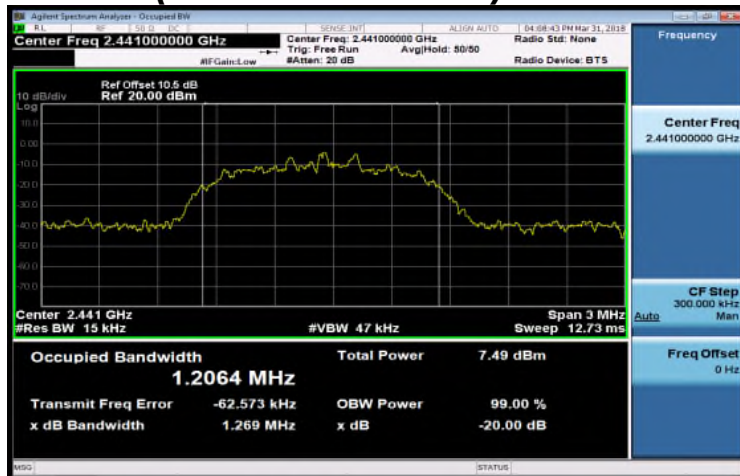
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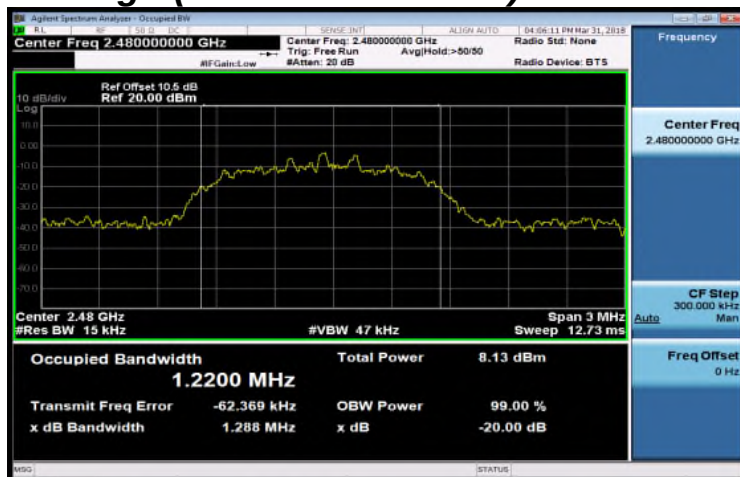
CH-Low (EDR Mode 8DPSK)



CH-Mid (EDR Mode 8DPSK)



CH-High (EDR Mode 8DPSK)



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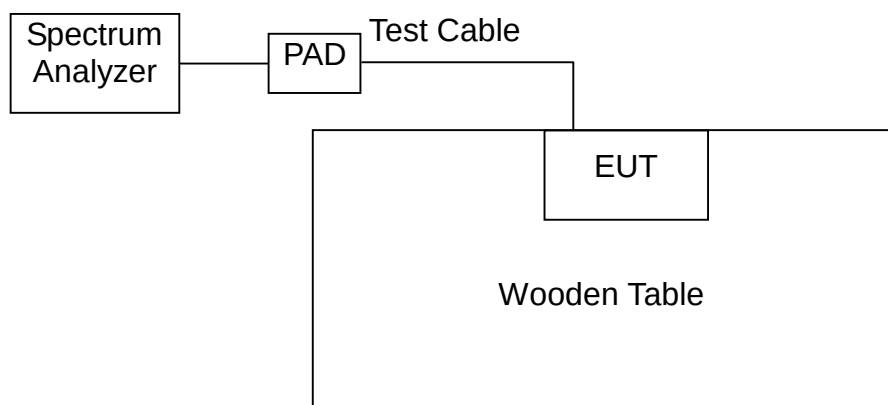
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11 載波頻率間隔之量測

11.1 適用標準

NCC 低功率射頻電機技術規範 3.10.1.6(1)(A) 跳頻系統之載波頻率頻道間隔不得低於 25 千赫 (kHz)或跳頻頻道之 20dB 頻寬，兩者取較寬者。但操作頻率為 2400-2483.5 兆赫(MHz)頻帶且輸出功率不大於 125 毫瓦(mW)跳頻系統，其載波頻率頻道間隔不得小於 25 千赫 (kHz)或跳頻頻道 20dB 頻寬之三分之二，兩者取較寬者。系統之跳頻頻道應依虛擬亂數排列，在各頻率之跳頻頻道上跳躍。每一發射機必須均等的使用每一頻率。系統接收機應具有與發射機跳躍頻道頻寬相匹配之輸入頻寬，且應隨所發射之信號同步偏移接收頻率。

11.2 量測載波頻率間隔之配置



11.3 載波頻率間隔之量測結果

頻道	載波頻率間隔	最小限制值 (MHz)	依據 NCC 低功率射頻電機技術規範 3.10.1 節(6.1.(A))之標準，故取載波頻率間隔之量測值。
CH Low	1MHz	0.87	
CH Mid	1MHz	0.88	
Ch High	1MHz	0.88	

請參考附圖。

註:操作頻率為 2400-2483.5 兆赫(MHz)頻帶且輸出功率不大於 125 毫瓦(mW)跳頻系統，其載波頻率頻道間隔不得小於 25 千赫(kHz)或跳頻頻道 20dB 頻寬之三分之二

註: 此裝置有 EDR 功能，因比較 BR mode 及 EDR mode 測試值後發現 EDR Mode ($\pi/4$ -DQPSK)為最差模式，故附上最差模式 EDR Mode ($\pi/4$ -DQPSK) 數據。

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載波頻率間隔測試值

測試設備: 藍牙耳機
環境溫度: 20°C
解析頻寬: 100kHz
Span: 5MHz

型號: FETEPRCBK
環境濕度: 65%
視訊頻寬: 100kHz
測試者: 黃威豪

GFSK



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8DPSK



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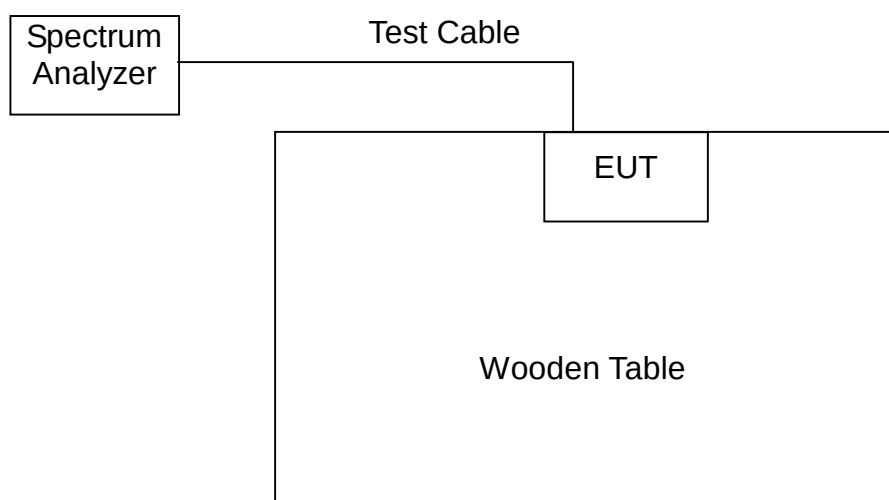
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12 載波頻率佔用週期之量測

12.1 適用標準

NCC 低功率射頻電機技術規範 3.10.1.6(1)(A)(a) 在 0.4 秒乘以跳頻頻道數之週期內，任一頻率佔用之平均時間不得超過 0.4 秒。

12.2 量測物載波頻率佔用週期之配置



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12.3 開放載波頻率佔用週期之量測結果:

測試設備: 藍牙耳機

環境溫度: 20°C

解析頻寬: 1MHz

Span: 0Hz

型號: FETEPRCBK

環境濕度: 65%

視訊頻寬: 3MHz

測試者:

黃威豪

量測週期 = $0.4 \times 79 = 31.6$ s**CH Low:**

DH1 time slot 為1發1收 Dwell Time

= 0.392 (ms) 每一個脈衝時間X (1600/(2*79)) 每秒在每一頻道發射次數X31.6量測週 125.44 (ms)

DH3 time slot 為1發1收 Dwell Time

= 1.628 (ms) 每一個脈衝時間X (1600/(4*79)) 每秒在每一頻道發射次數X31.6量測週 260.48 (ms)

DH5 time slot 為1發1收 Dwell Time

= 2.863 (ms) 每一個脈衝時間X (1600/(6*79)) 每秒在每一頻道發射次數X31.6量測週 305.39 (ms)

CH Mid:

DH1 time slot 為1發1收 Dwell Time

= 0.396 (ms) 每一個脈衝時間X (1600/(2*79)) 每秒在每一頻道發射次數X31.6量測週 126.72 (ms)

DH3 time slot 為1發1收 Dwell Time

= 1.637 (ms) 每一個脈衝時間X (1600/(4*79)) 每秒在每一頻道發射次數X31.6量測週 261.92 (ms)

DH5 time slot 為1發1收 Dwell Time

= 2.863 (ms) 每一個脈衝時間X (1600/(6*79)) 每秒在每一頻道發射次數X31.6量測週 305.39 (ms)

CH High:

DH1 time slot 為1發1收 Dwell Time

= 0.392 (ms) 每一個脈衝時間X (1600/(2*79)) 每秒在每一頻道發射次數X31.6量測週 125.44 (ms)

DH3 time slot 為1發1收 Dwell Time

= 1.642 (ms) 每一個脈衝時間X (1600/(4*79)) 每秒在每一頻道發射次數X31.6量測週 262.72 (ms)

DH5 time slot 為1發1收 Dwell Time

= 2.863 (ms) 每一個脈衝時間X (1600/(6*79)) 每秒在每一頻道發射次數X31.6量測週 305.39 (ms)

註: 此裝置有EDR功能, 比較BR mode及EDR mode測試值後, 附上最差模式BR (GFSK) mode數據。

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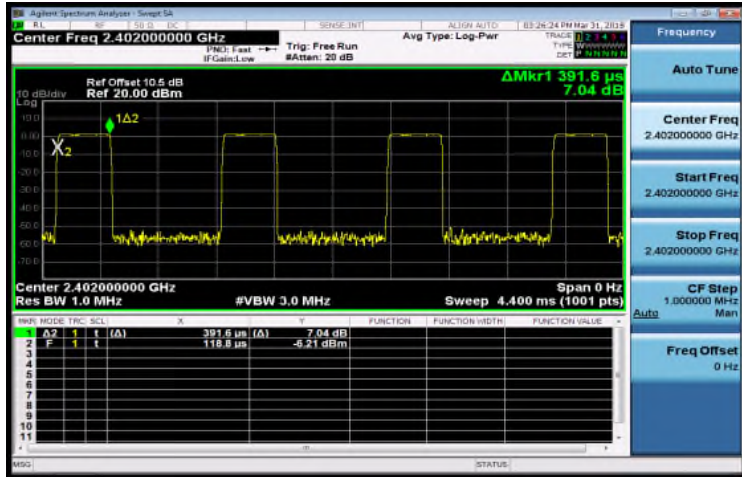
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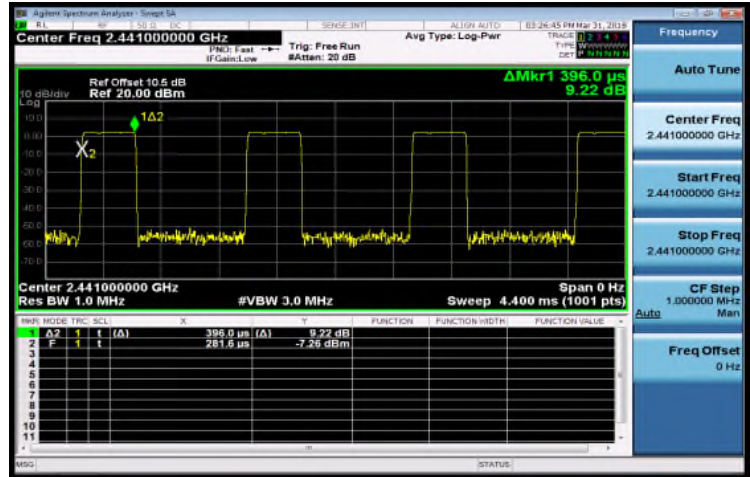
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載波頻率週期測試值 CH-Low DH1



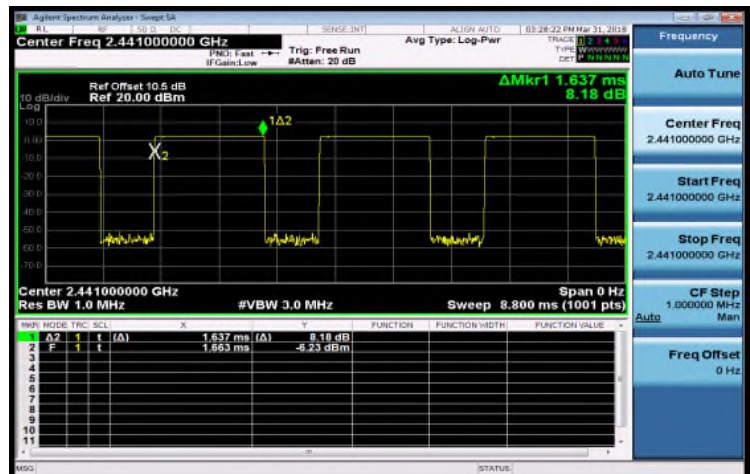
載波頻率週期測試值 CH-Mid DH1



DH3



DH3



DH5



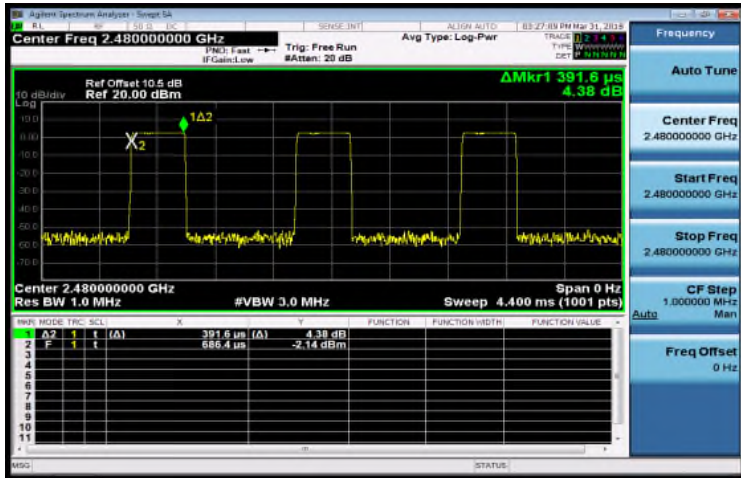
DH5



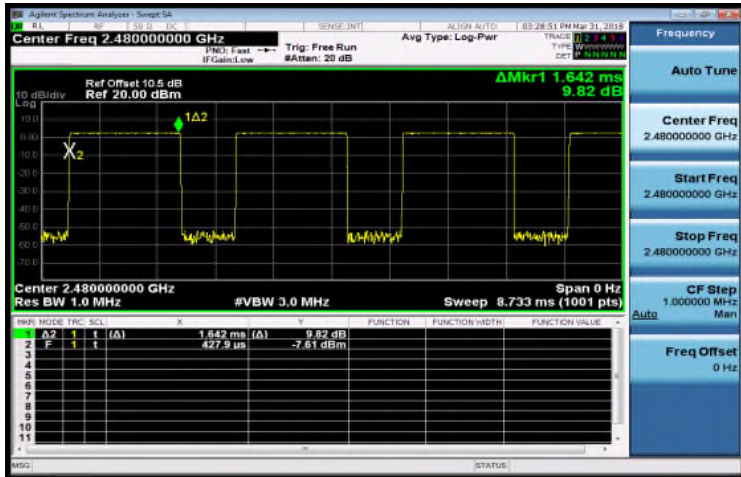
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載波頻率週期測試值 CH-High
DH1

DH3



DH5

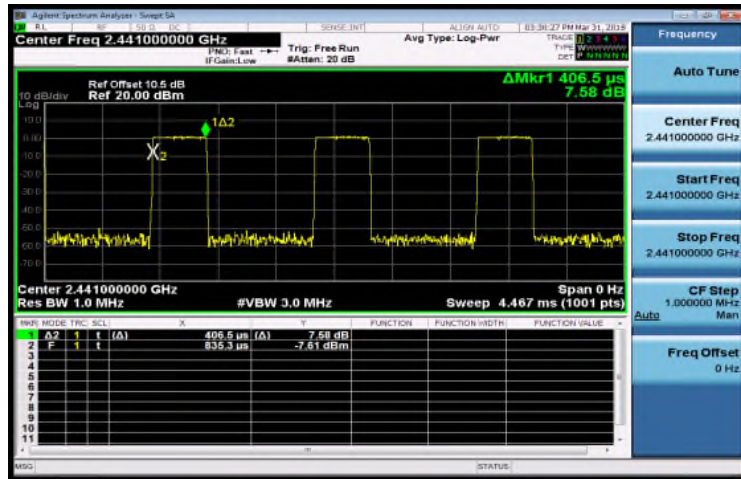


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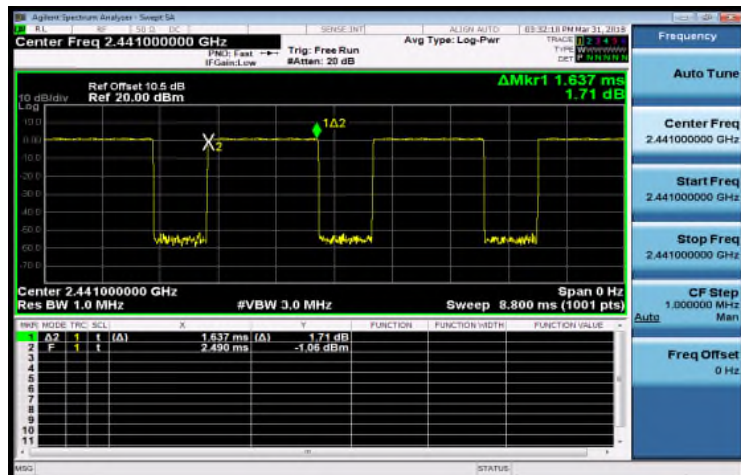
載波頻率週期測試值 CH-Mid 2DH1



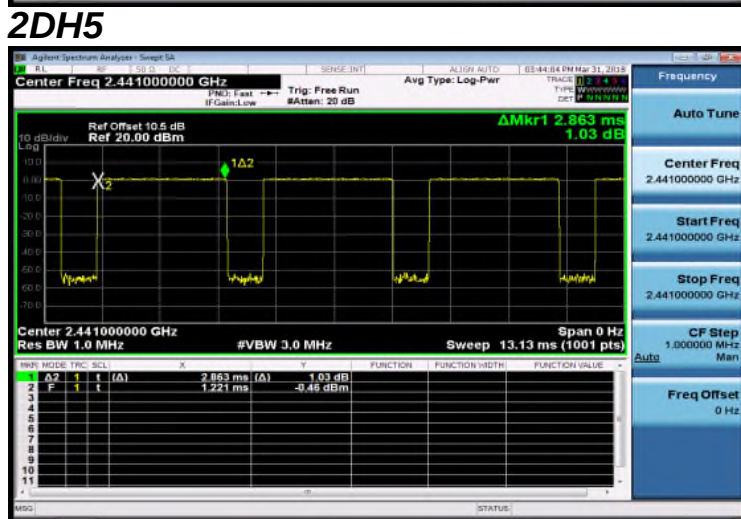
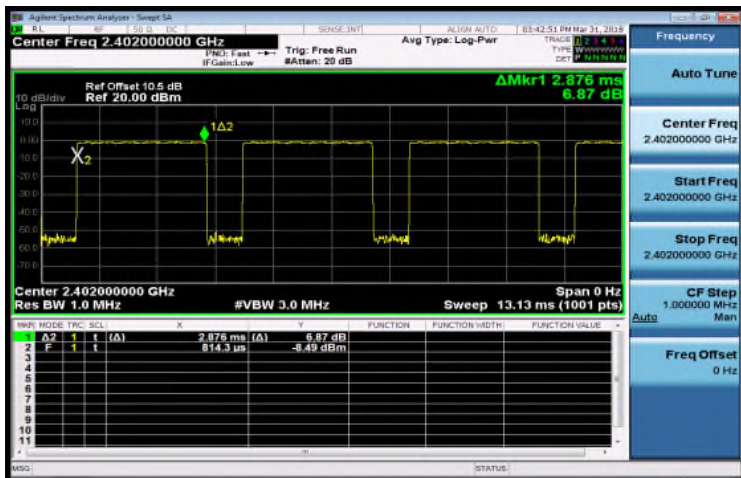
2DH3



2DH3



2DH5

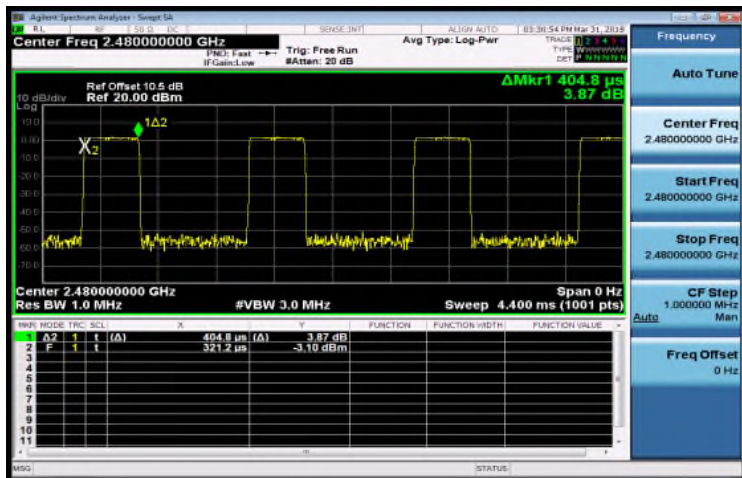


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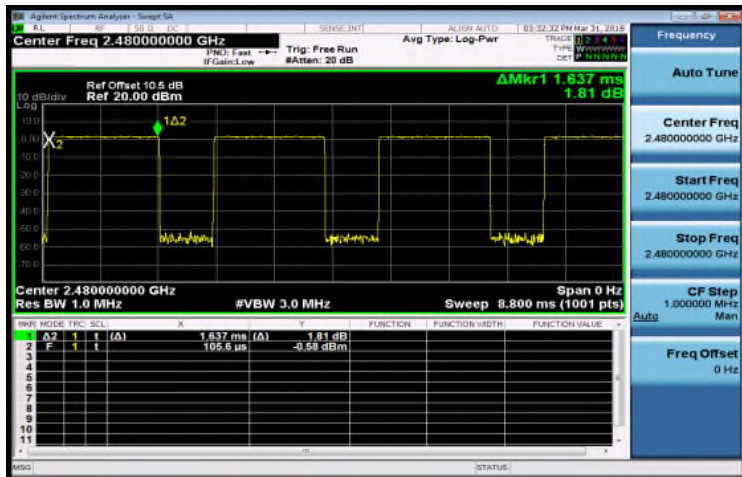
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載波頻率週期測試值 CH-High 2DH1



2DH3



2DH5



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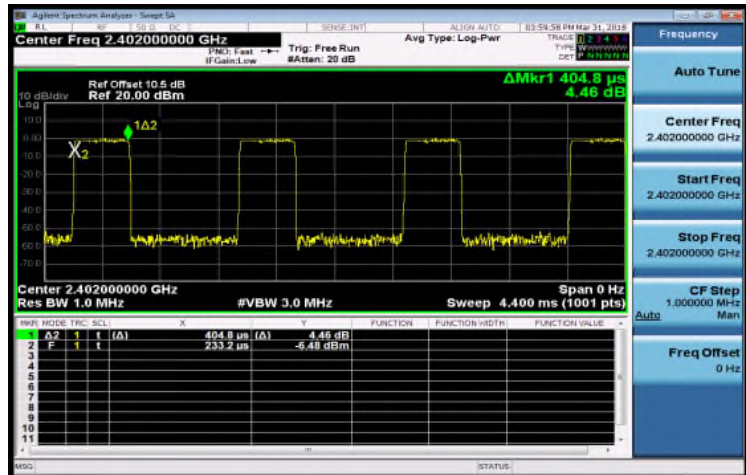
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載波頻率週期測試值 CH-Low

3DH1

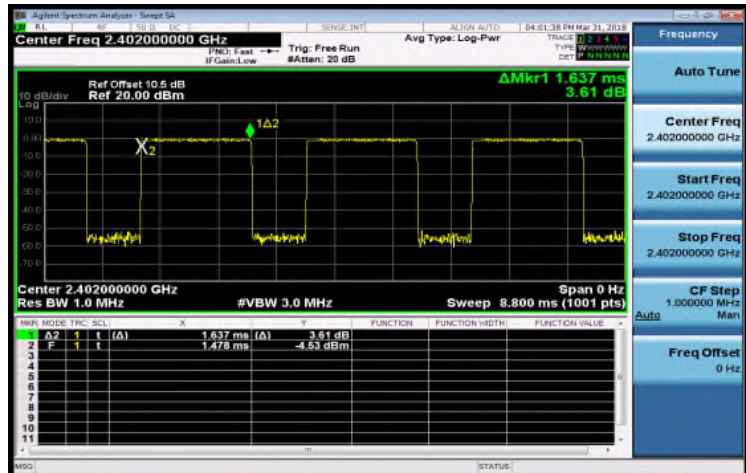


載波頻率週期測試值 CH-Mid

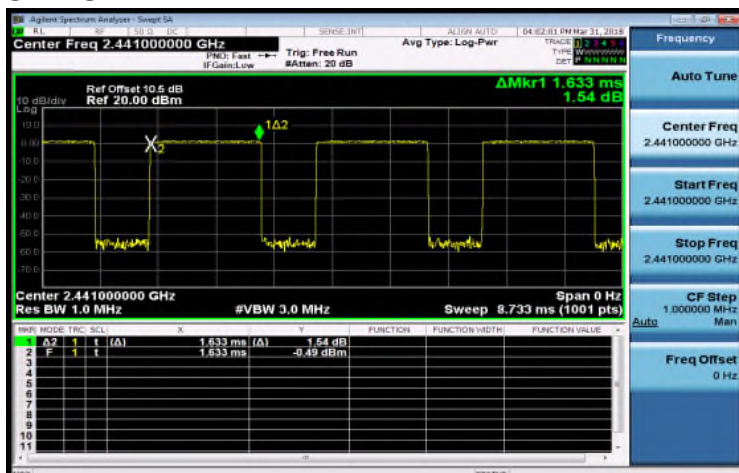
3DH1



3DH3



3DH3



3DH5



3DH5



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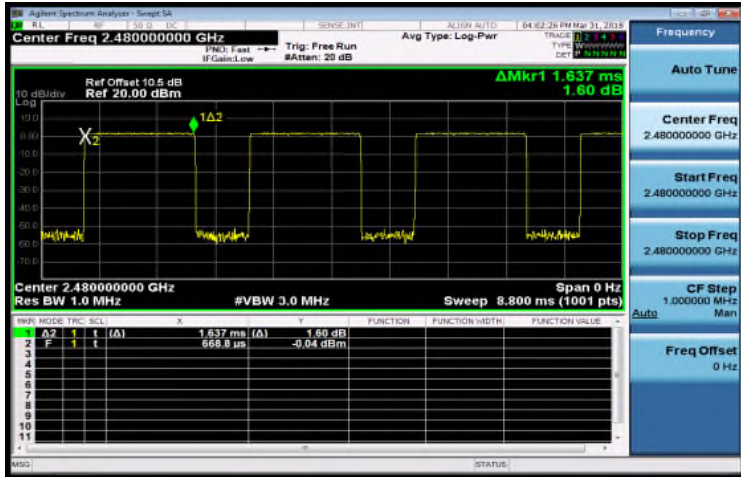
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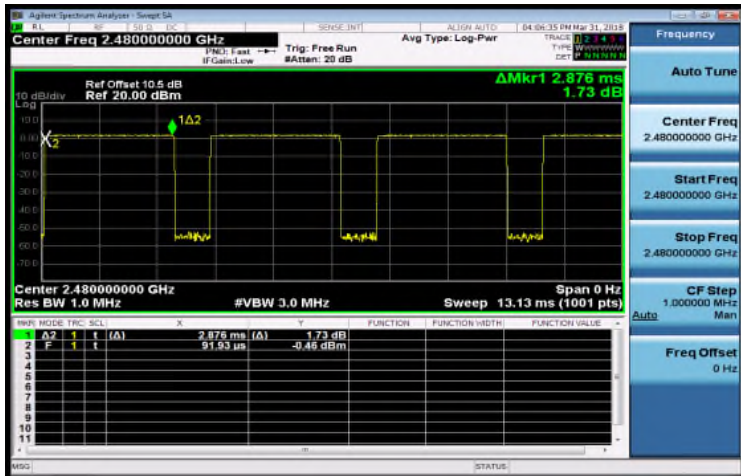
載波頻率週期測試值 CH-High 3DH1



3DH3



3DH5



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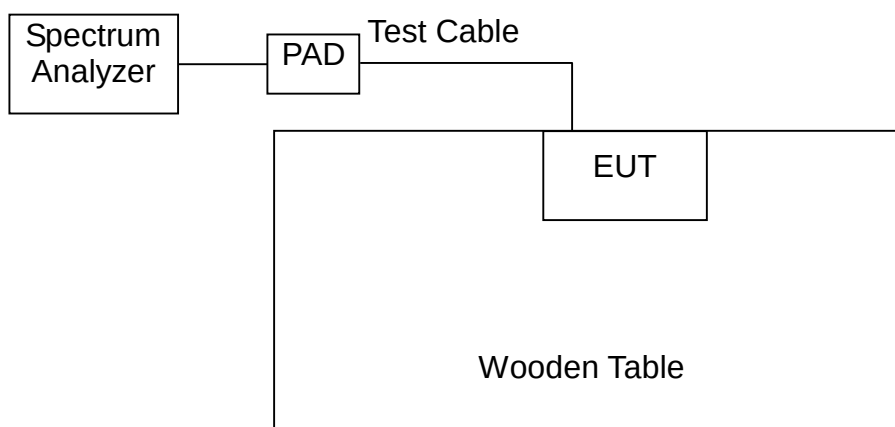
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13 頻道數之量測

13.1 適用標準

依據NCC低功率射頻電機技術規範3.10.1.6(1)(A)(a)規定，操作於2400 MHz～2483.5 MHz之展頻跳頻系統，須使用至少15個無重疊的頻道，在0.4秒乘以跳頻頻道數之週期內，任一頻率占用之平均時間應小於或等於0.4秒。應使用智慧型跳頻技術，以避免占用於特定跳頻頻道。

13.2 量測頻道數之配置



13.3 頻道數之量測結果

測試設備：藍牙耳機

環境溫度：21℃

解析頻寬：430kHz

Span：41MHz

型號：FETEPRCBK

環境濕度：63%

視訊頻寬：1.5MHz

測試者：黃威豪

頻道數	限制值 (CH)	量測值 (CH)	結果
	15	79	Pass

註：此裝置有 EDR 功能，由於 BR mode 及 EDR mode 跳頻數相同，僅以 BR mode、GFSK 調變之數據為代表。

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台灣檢驗科技股份有限公司

No.134, WuKungRoad, NewTaipeiIndustrialPark, WukuDistrict, NewTaipeiCity, Taiwan24803/新北市五股區新北產業園區五工路 134 號

t (886-2) 2299-3279

f (886-2) 2298-0488

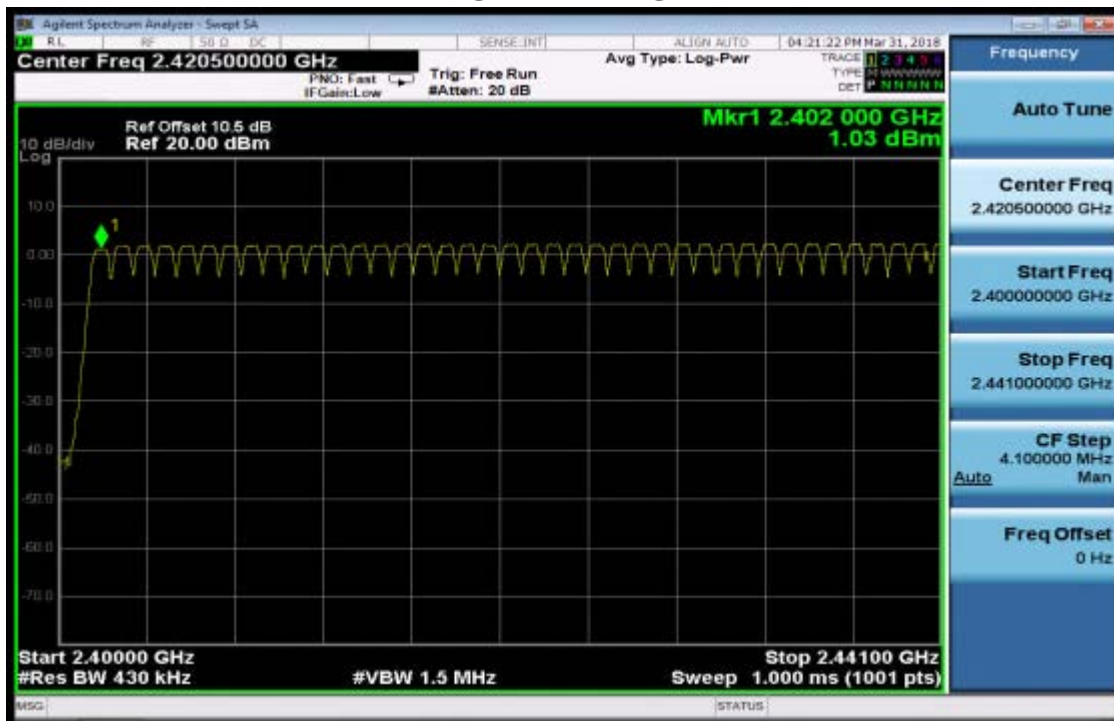
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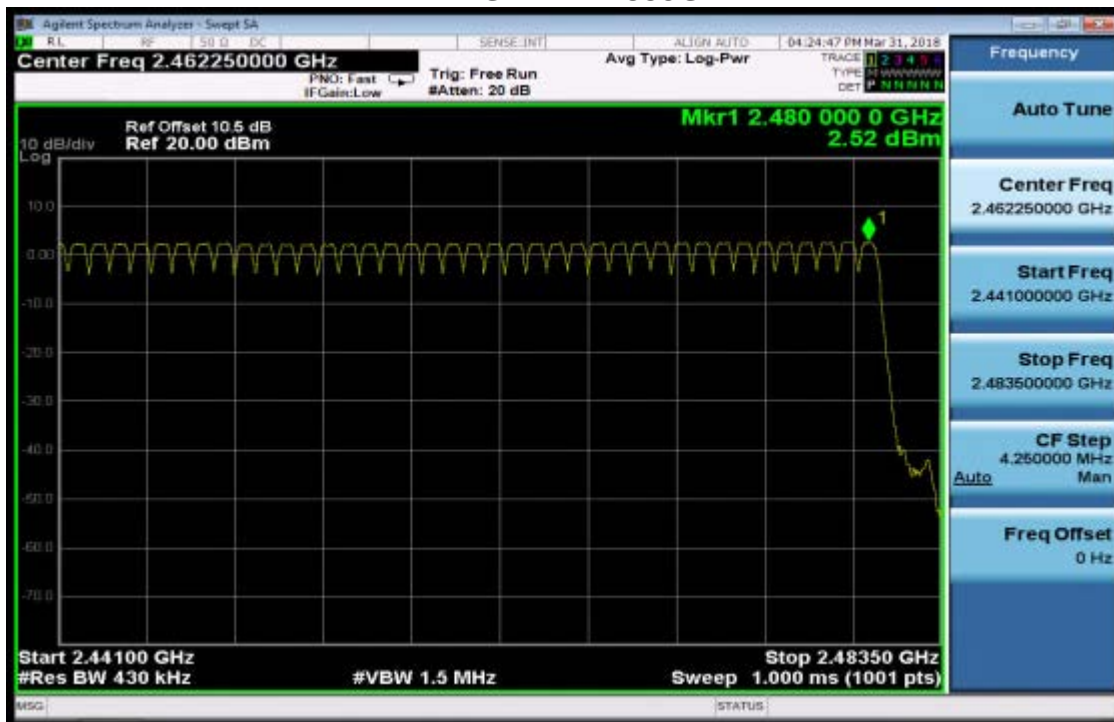
頻道數之量測值

GFSK

2.4GHz – 2.441GHz



2.441 GHz – 2.4835GHz



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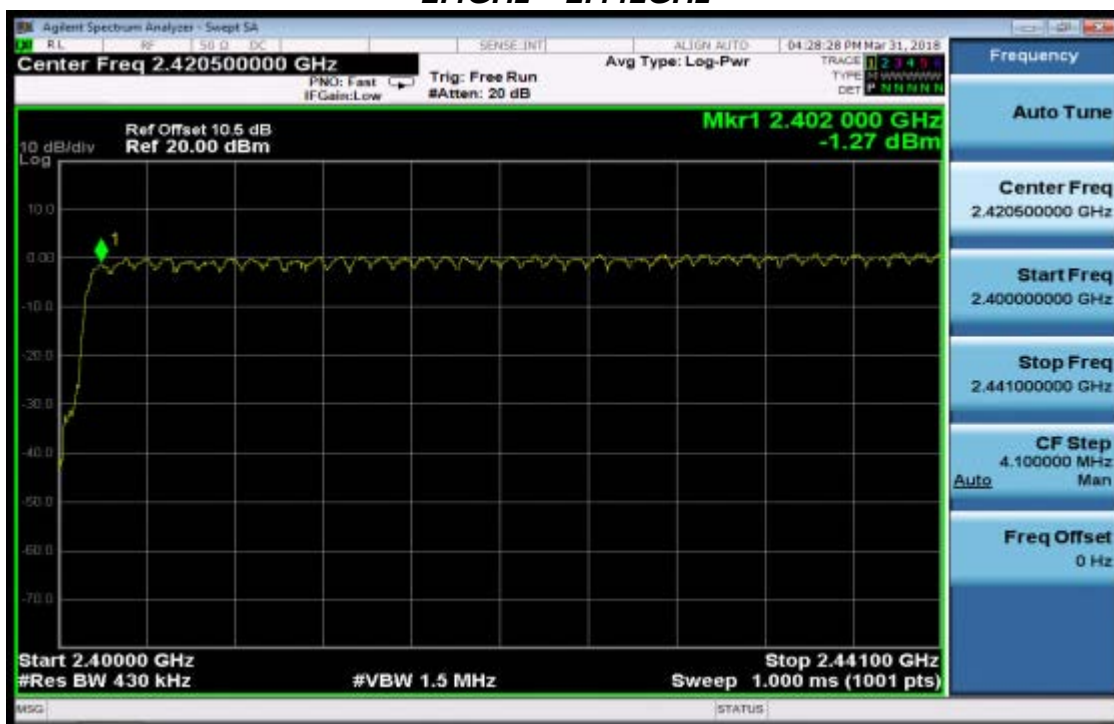
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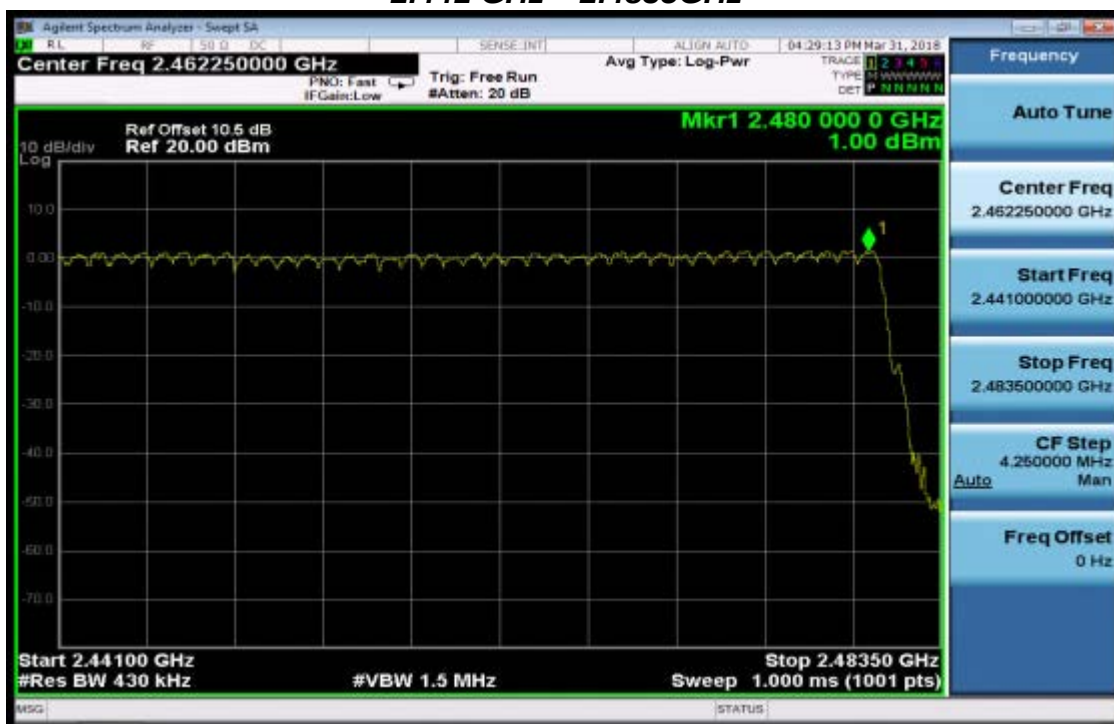
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8DPSK

2.4GHz – 2.441GHz



2.441 GHz – 2.4835GHz



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