

低功率射頻電機試驗報告

申請廠商	Marquardt GmbH Schloss-Str. 16, 78604 Rietheim-Weilheim, Germany
製造廠商	Marquardt GmbH
產品名稱	Vehicle Key
廠牌	Porsche
型號	PK3
發射功率	81.83dBuV/m (Peak)
工作頻率	433.47MHz ~434.37MHz
調變方式	FSK-2
法規章節	LP0002 3.4.2

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106年10月30日

完成日期 民國106年11月06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 105 年 8 月 23 日版本

待測裝置已於台灣檢驗科技股份有限公司電子暨通訊實驗室，依據國家通訊傳播委員會於中華民國一百零五年八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。

測試人員：

陳柏均

日期：

11/09/2017

陳柏均 / 工程師

報告製作：

湯宜萱

日期：

11/09/2017

湯宜萱 / 行政

報告審核：

張俊卿

日期：

11/09/2017

張俊卿 / 副理

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f (886-2) 2298-0488

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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06月14日起至107年06月13日止

測試場地 : 新北市新北產業園區五工路134號

實驗室名稱 : 台灣檢驗科技股份有限公司
電子暨通訊實驗室

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	2.586dB
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
頻率誤差量測	範例一	2.4 GHz	290Hz
	範例二	5 GHz	724.3Hz
輸出功率	傳導方式	2.4 GHz	1.3dB
		5 GHz	1.55dB
有效輻射功率 (輻射方式)	水平極化	2.4 GHz	4.21dB
		5 GHz	4.62dB
	垂直極化	2.4 GHz	4.42dB
		5 GHz	4.74dB
功率頻譜密度	傳導方式	2.4 GHz	1.3dB
		5 GHz	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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1. 一般資料

1.1 產品描述

產品名稱	Vehicle Key
型號	PK3
產品商標	Porsche
SW version:	N/A
HW version:	N/A
使用電源	3VDC from Battery
產品特性	屬於無線自動收發裝置，每次發射 5 秒內停止，發射頻率為 433.92MHz。

433 MHz

發射頻帶	433.47MHz~434.37MHz
發射功率	81.83 dBuV/m (Peak)
調變方式	FSK-2
頻道數	3 Channels: CH1: 433.47 MHz CH2: 433.92 MHz CH3: 434.37 MHz
頻道間隔	0.45MHz
天線型式	PCB Loop Antenna

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(105.08.23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之檢驗法。

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一般規定項目

項次	測試項目	適用規範	測試結果	量測設備	備註
1	待測試產品確認	低功率射頻電機技術規範 2.1節	N/A	N/A	符合
2	天線之要求	低功率射頻電機技術規範 2.2節	N/A	N/A	符合
3	電源線傳導干擾	低功率射頻電機技術規範 2.3節	N/A	N/A	無 AC 電源
4	不得發射減幅波	低功率射頻電機技術規範 2.4節	N/A	N/A	符合
5	禁用頻帶確認	低功率射頻電機技術規範 2.7節	N/A	N/A	符合
6	輻射電場強度	低功率射頻電機技術規範 3.4.2.5(1)節	合格	合格	符合
7	手冊內容確認	低功率射頻電機技術規範 2.10節	N/A	N/A	符合
8	是否成套銷售	低功率射頻電機技術規範 2.11節	N/A	N/A	否
	以下空白				

註: 以上標示“N/A”之欄位，意指“不適用”。

特別規定：任何發射型式之器材

項次	測試項目	適用規範	測試結果	量測設備	備註
1	主波發射	低功率射頻電機技術規範 3.4.2.5(1)節	合格 6.5	4.2	
2	電場強度限制	低功率射頻電機技術規範 3.4.2.5(1)，2.8節	合格 6.5	4.2	
3	20 dB 頻寬	低功率射頻電機技術規範 3.4.2.5(1)節	合格 7.5	4.2	
4	發射及停止時間	低功率射頻電機技術規範 3.4.2.4(1)節	合格 8.4	4.2	
	以下空白				

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2. 適用規範

(1) 輻射之規定

依據NCC低功率射頻電機技術規範之3.4.2.5(1)節，發射機電場強度之限制要求

如下(測試距離 3 米)：特別規定

主波頻率 (兆赫)	主波電場強度 (微伏/公尺)	不必要之發射 (微伏/公尺)
40.66-40.70	2250	225
70-130(含)	1250	125
130(不含)-174(含)	1250-3750 ^(註 1,2)	125-375 ^(註 1,2)
174(不含)-260(含)	3750	375
260(不含)-470(含)	3750-12500 ^(註 1,2)	375-1250 ^(註 1,2)
470(不含)以上	12500	1250

註：1. 以線性插補法 (linear interpolations)，最大容許電場強度之計算公式如下：

(1.1)130-174MHz(兆赫) $\Rightarrow$ $56.81818 \times (\text{工作頻率, 單位: 兆赫}) - 6136.3636$

(1.2)260-470MHz(兆赫) $\Rightarrow$ $41.6667 \times (\text{工作頻率, 單位: 兆赫}) - 7083.3333$

2. 不必要之發射的電場強度應比主波最大容許值低至少 20dB 或符合第 2.8 節之限制，可取兩者中較寬鬆之規定；若使用平均值測量發射，同時亦必須符合第 5.15.2 節之峰值規定。

主波電場強度：

以線性插補法，最大容許電場強度之限制值計算方式：

工作頻率	433.47 MHz	工作頻率	433.92 MHz
41.6667 X 433.47 - 7083.3333 = 10977.931 uV/m		41.6667 X 433.92 - 7083.3333 = 10996.681 uV/m	
20log(10977.93)=80.81 dBuV/m (AV限制值)		20log(10996.68)=80.83 dBuV/m (AV限制值)	
80.81+20= 100.81 dBuV/m (PK限制值)		80.83+20= 100.83 dBuV/m (PK限制值)	

工作頻率	434.37 MHz
41.6667 X 434.37 - 7083.3333 = 11015.431 uV/m	
20log(11015.43)=80.84 dBuV/m (AV限制值)	
80.84+20= 100.84 dBuV/m (PK限制值)	

(2) 依據3.4.2.4(1)(B) 除(A)之作業頻率以外者：如為手動發射器材須有一開關，按下此開關後5秒內應自動停止發射。具自動控制裝置者每次發射時間應少於5秒。

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依據NCC低功率射頻電機技術規範2.11節，收信機之輻射電場強度不得超過2.8節之規定，即如上表之『其他發射之限制值』，其限制值如下：(一般規定)

頻率 MHz	測試距離 m	其他發射之限制值	
		dB μ V/m	μ V/m
0.009 – 0.490 (含)	300		2,400 / 頻率 (千赫)
0.490 (不含) – 1.705 (含)	30		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

- (1) 依據 NCC 低功率射頻電機技術規範之 3.4.2.2 節，在 70 兆赫(MHz)至 900 兆赫(MHz)間作業者，其發射頻寬限於中心頻率之 0.25%以內，在 900 兆赫(MHz)以上作業者，其發射頻寬限於中心頻率之 0.5%以內，頻寬係由低於經調變之主波 20dB 點求取。

(2) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，電源傳導干擾之限制要求如下：

頻率(MHz)	傳導限制值 (dB μ V)	
	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

(3) 發射天線之要求

低功率發射機，依據NCC低功率射頻電機技術規範2.2節之規定，其發射天線應為全固定式或半固定式，不得使用可供引接之天線接頭。

- (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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(5) 限制使用之頻帶

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	1660.0~1770.0	14470~14500
25.500~25.700	1805.0~1865.0	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	2015.0~2025.0	23600~24000
149.90~150.05	2125.0~2165.0	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	

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3. 受測裝置之系統說明

裝置名稱	製造者/代理者	型 號
*Vehicle Key	Marquardt GmbH / Marquardt GmbH	PK3

3.1 待測物與測試設備系統圖

Radiated & Conducted Emission



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
1	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	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2017	08/29/2018
LISN	Schwarzbeck	NSLK 8127	8127-648	06/18/2017	06/17/2018
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

4.2. 量測場強輻射之量測儀器

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

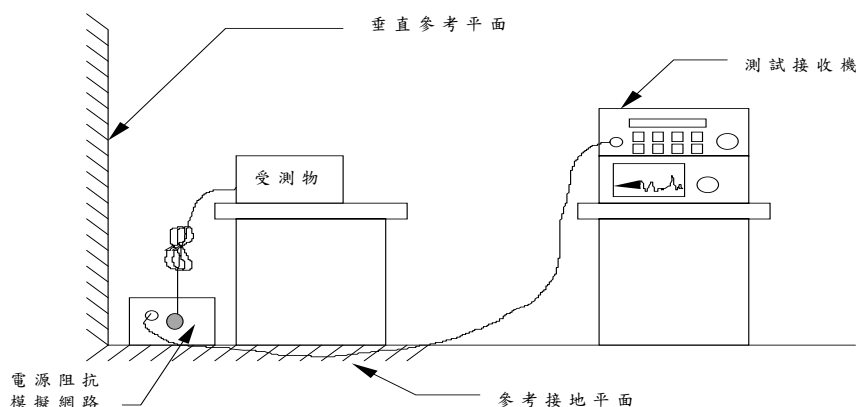
依據NCC低功率射頻電機技術規範2.3節之要求。

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。

5.3 測試配置

圖 3：傳導干擾之量測配置



5.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

結果值 = 儀器讀值(QP/AV) + 校正因數

其中校正因數為：

饋線損失 + 電源阻抗模擬網路損失

5.5 傳導干擾之量測結果

N/A，此產品使用 DC 3V 電池，故無須測試。

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6. 場強輻射之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範3.4.2.5節之要求，其主波電場強度及不必要之輻射干擾需符合表3.4.2.5(1)之限制要求。

6.2 量測方法

將待測物置於 0.8 米高的非金屬桌面，使其在工作狀態，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。

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:	3117	檢測器:	Peak, Average
頻譜分析儀設定	Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz		

註: 由於 9KHz ~ 30MHz 之電場強度量測不到，故輻射干擾由 30MHz 開始量測。

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6.3 場強度之計算

A. 場強之計算公式如下

結果值 = 讀值 + 校正因數

AV level = Peak level + AV correct factor

如果是 pulse modulation

AV correction factor = $20\log(Ton/100ms)$

其中校正因數為：

天線因數 + 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：經評估比較 H PLAN、E1 PLAN 和 E2 PLAN 測試值，附上最差模式 H PLAN 數據。

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

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

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

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

“---” : denotes Noise Floor.

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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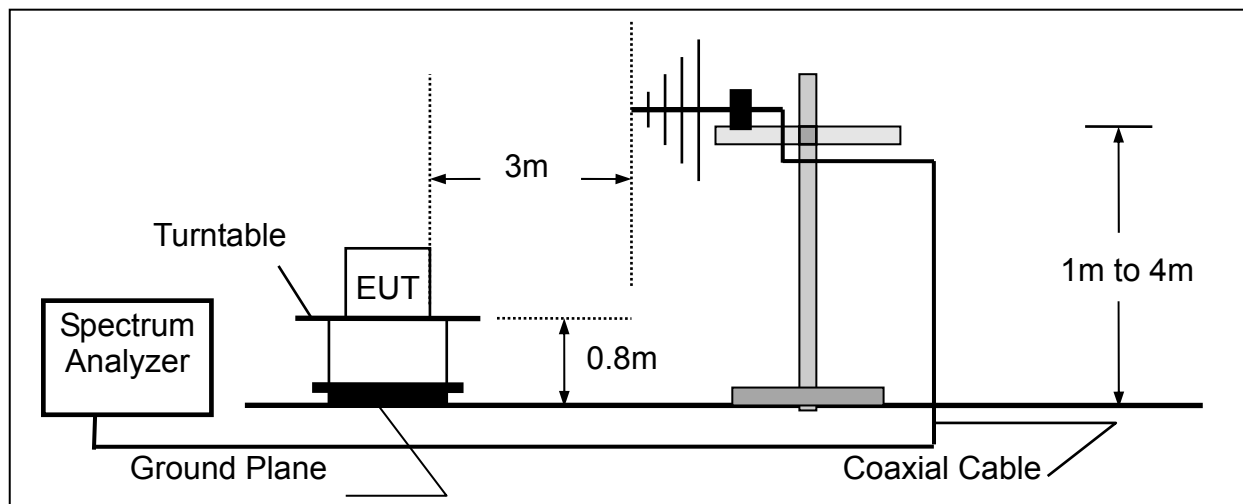
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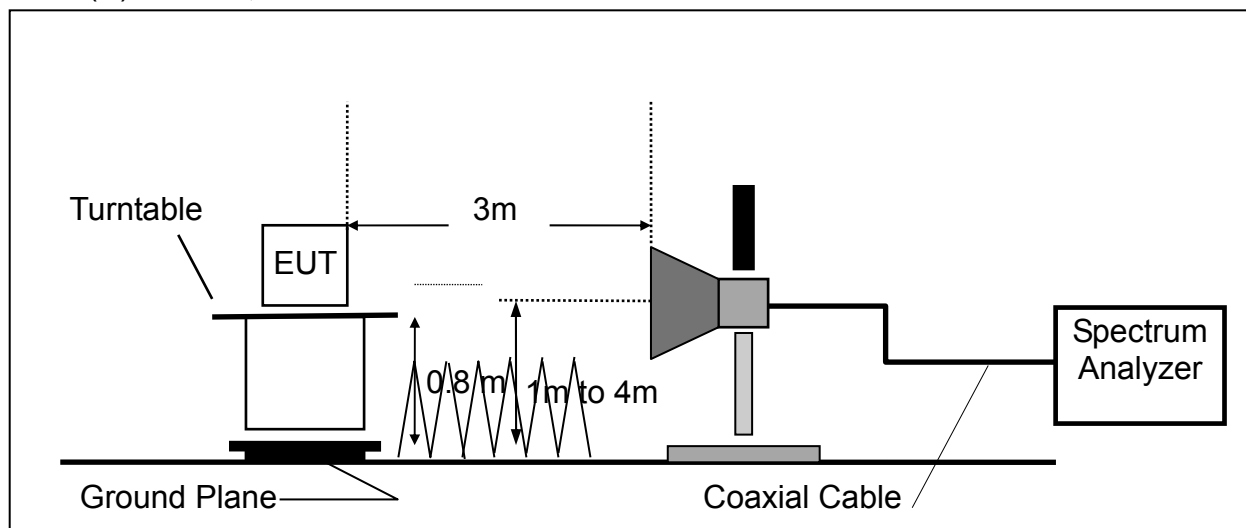
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6.4 輻射之測試配置

(A) 量測頻率 1000MHz 以下之測試配置



(B) 量測頻率 1000MHz 以上之測試配置



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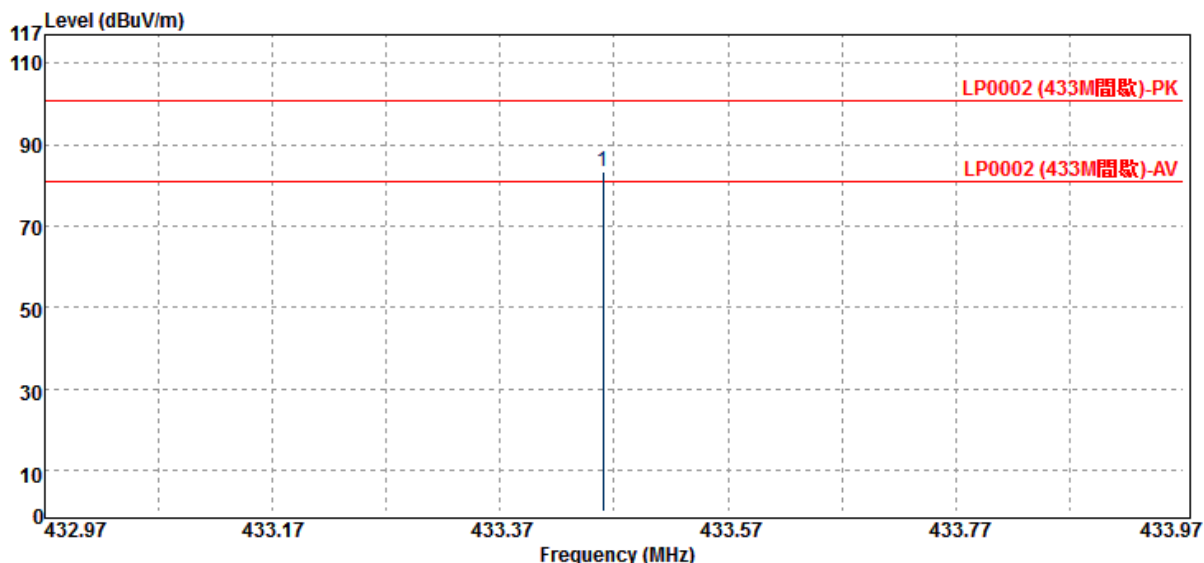
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6.5 主波場強輻射之量測結果

6.5.1 發射機

A. RF Portion (特別規定之 3.4.2 (5.1) 節)

Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Main CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	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	Safe Margin dB
433.46	F	Average	---	-8.64	78.20	80.81	-2.61
433.46	F	Peak	86.84	-3.5	83.34	100.81	-17.47

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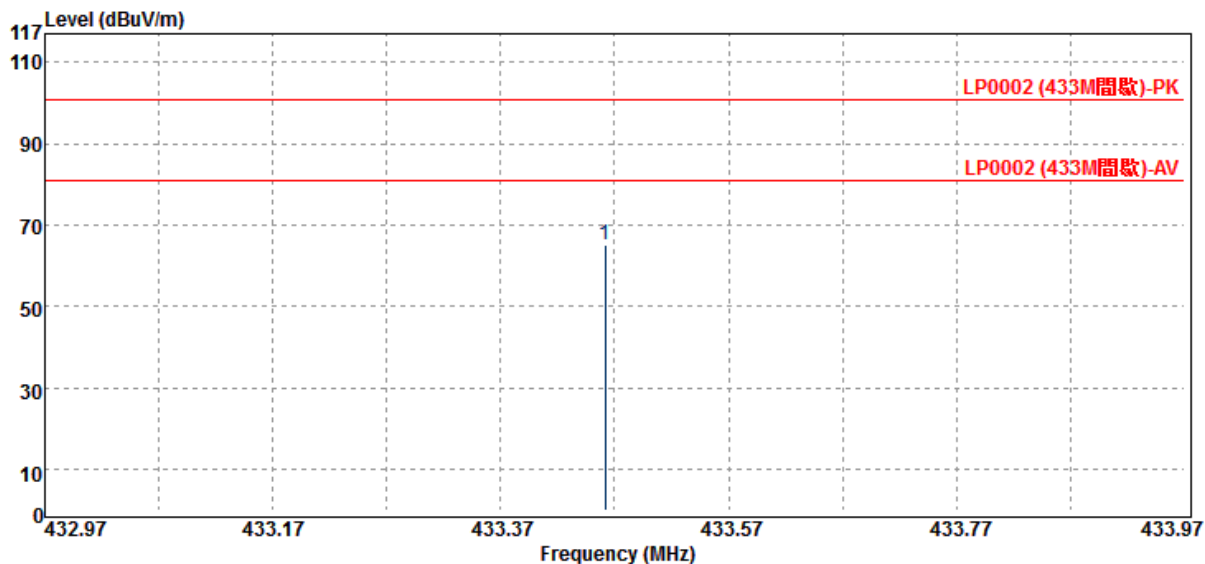
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Main CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
433.46	F	Average	---	-8.64	59.99	80.81	-20.82
433.46	F	Peak	68.63	-3.5	65.13	100.81	-35.68

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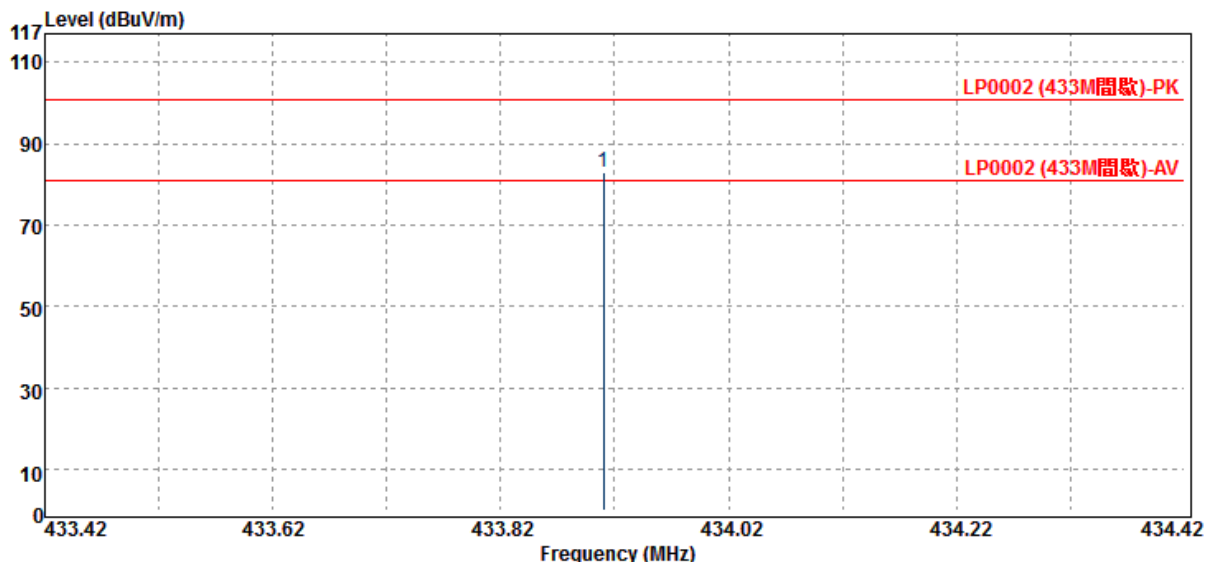
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Main CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
433.91	F	Average	---	-8.64	78.02	80.83	-2.81
433.91	F	Peak	86.66	-3.53	83.13	100.83	-17.70

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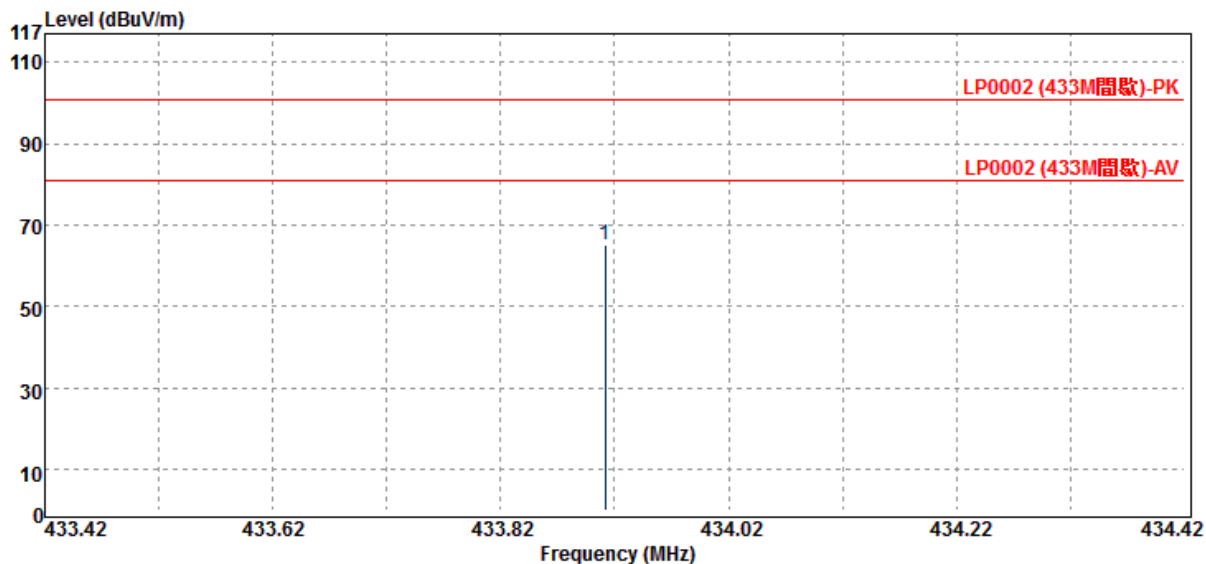
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Main CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
433.91	F	Average	---	-8.64	59.92	80.83	-20.91
433.91	F	Peak	68.56	-3.53	65.03	100.83	-35.80

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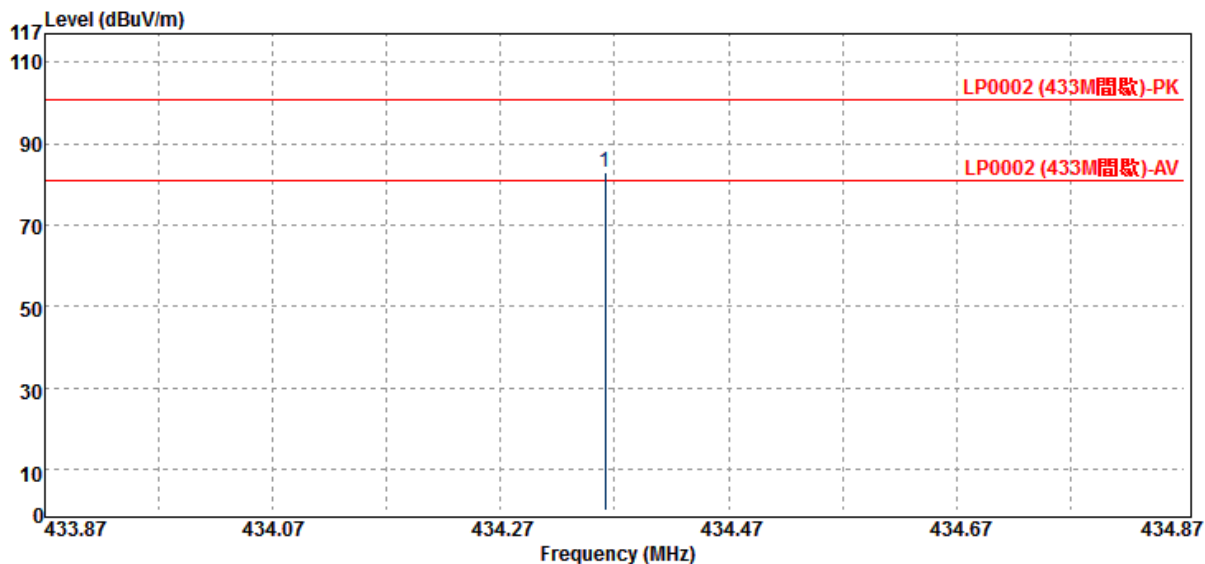
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Main CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
434.36	F	Average	---	-8.64	77.88	80.84	-2.96
434.36	F	Peak	86.52	-3.56	82.96	100.84	-17.88

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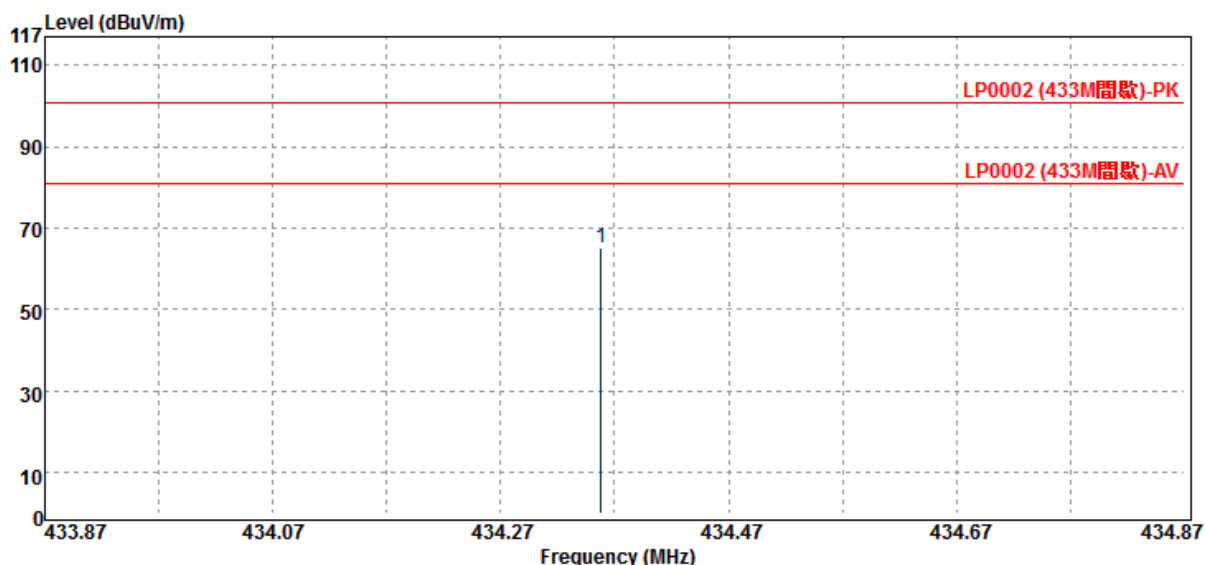
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Main CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
434.36	F	Average	---	-8.64	60.09	80.84	-20.75
434.36	F	Peak	68.73	-3.56	65.17	100.84	-35.67

Note: Average Actual = Peak Actual + Average Factor (-8.64)

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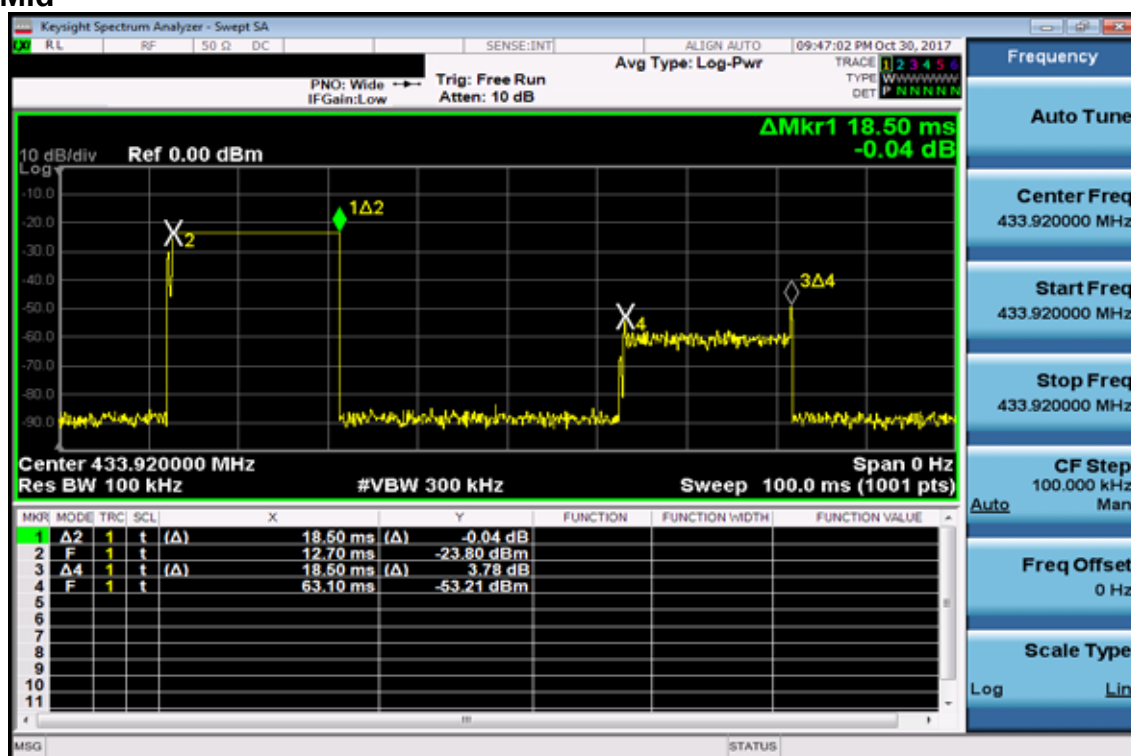
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脈衝週期計算

Ton= 37	ms
Sweep Time= 100	ms
$37/100=0.37$	
Avg. correct= $20\log(0.37)=-8.64$	
Ton = $18.5+18.5=37$	

Ton CH Mid



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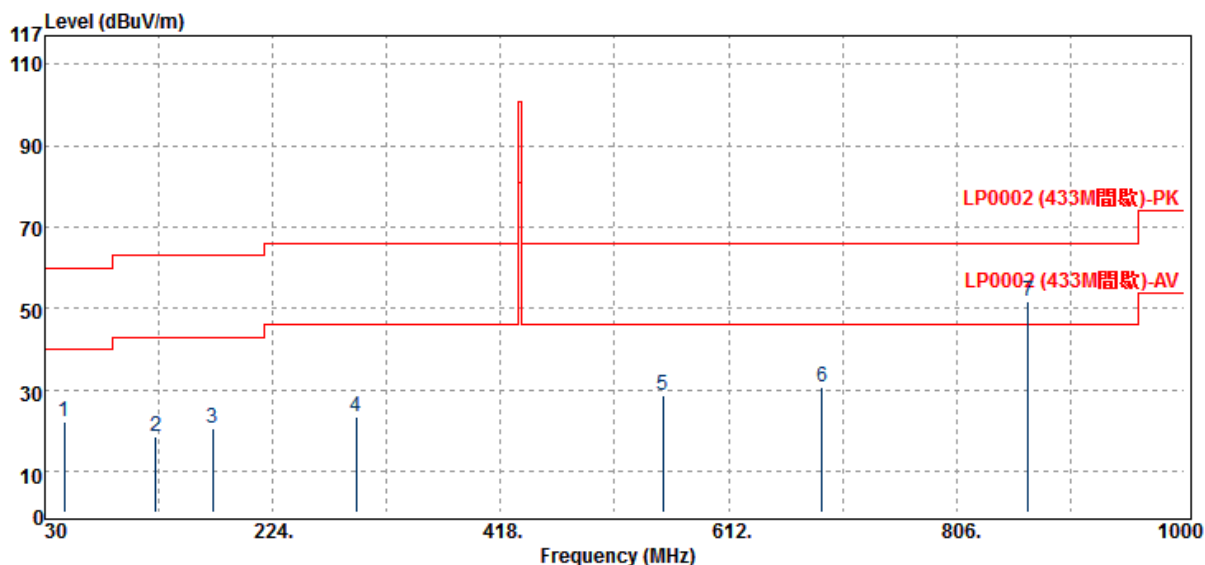
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B. 其他不必要之訊號 (一般規定之 2.8 節) 發射機場強輻射之量測結果 (1GHz 以下)

Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	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
46.49	S	Peak	30.24	-7.91	22.33	60.00	-37.67
124.09	S	Peak	28.73	-10.07	18.66	63.00	-44.34
172.59	S	Peak	28.71	-7.86	20.85	63.00	-42.15
294.81	S	Peak	29.62	-6.02	23.60	66.00	-42.40
555.74	S	Peak	29.92	-1.30	28.62	66.00	-37.38
691.54	S	Peak	29.50	1.47	30.97	66.00	-35.03
867.11	H	Average	---	-8.64	38.47	46.00	-7.53
867.11	H	Peak	47.11	4.76	51.87	66.00	-14.13

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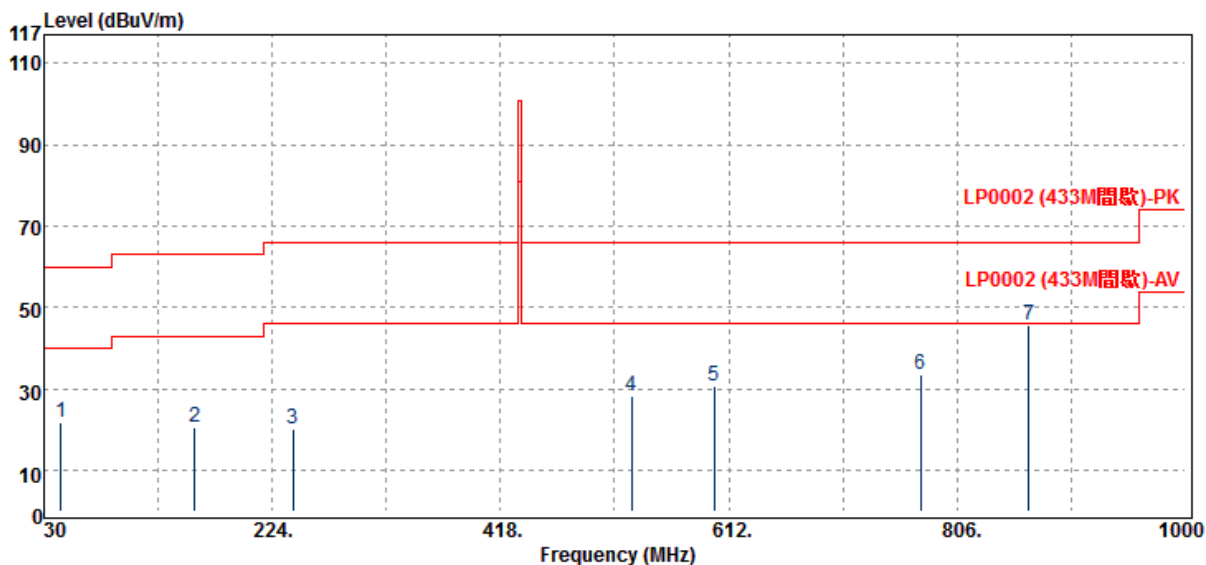
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
44.55	S	Peak	29.93	-8.09	21.84	60.00	-38.16
158.04	S	Peak	28.09	-7.45	20.64	63.00	-42.36
241.46	S	Peak	28.46	-8.02	20.44	66.00	-45.56
529.55	S	Peak	29.67	-1.25	28.42	66.00	-37.58
599.39	S	Peak	31.17	-0.27	30.90	66.00	-35.10
774.96	S	Peak	30.90	2.76	33.66	66.00	-32.34
867.11	H	Average	---	-8.64	32.52	46.00	-13.48
867.11	H	Peak	41.16	4.76	45.92	66.00	-20.08

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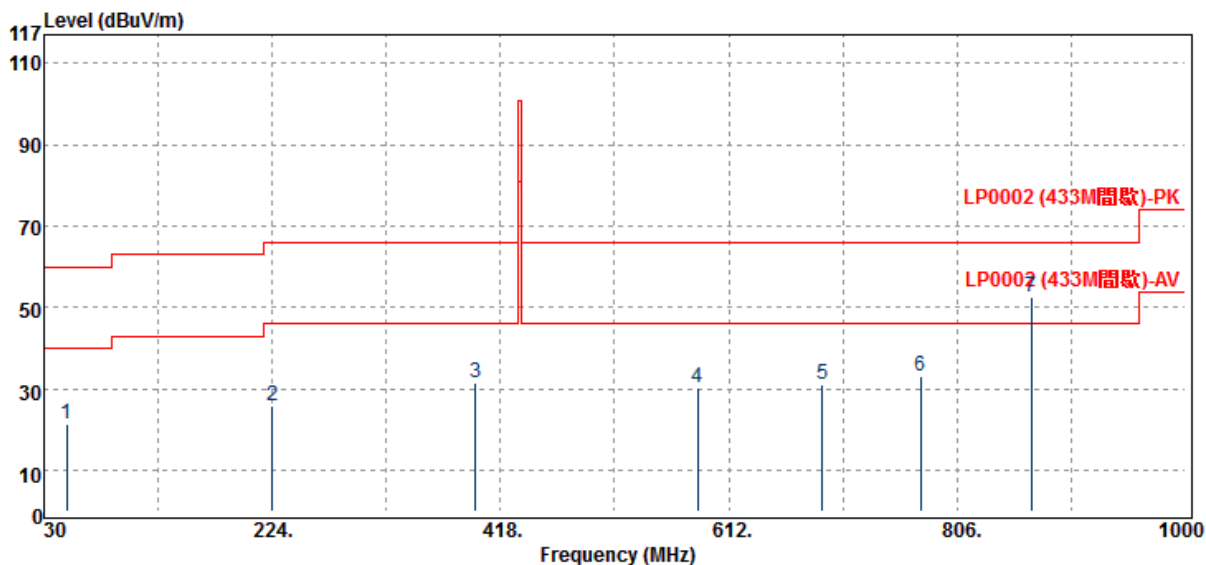
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
49.40	S	Peak	29.08	-7.74	21.34	60.00	-38.66
224.00	S	Peak	35.07	-9.20	25.87	66.00	-40.13
396.66	S	Peak	35.67	-4.11	31.56	66.00	-34.44
585.81	S	Peak	30.13	0.04	30.17	66.00	-35.83
691.54	S	Peak	29.61	1.47	31.08	66.00	-34.92
774.96	S	Peak	30.58	2.76	33.34	66.00	-32.66
869.05	S	Average	---	-8.64	39.33	46.00	-6.67
869.05	S	Peak	47.97	4.80	52.77	66.00	-13.23

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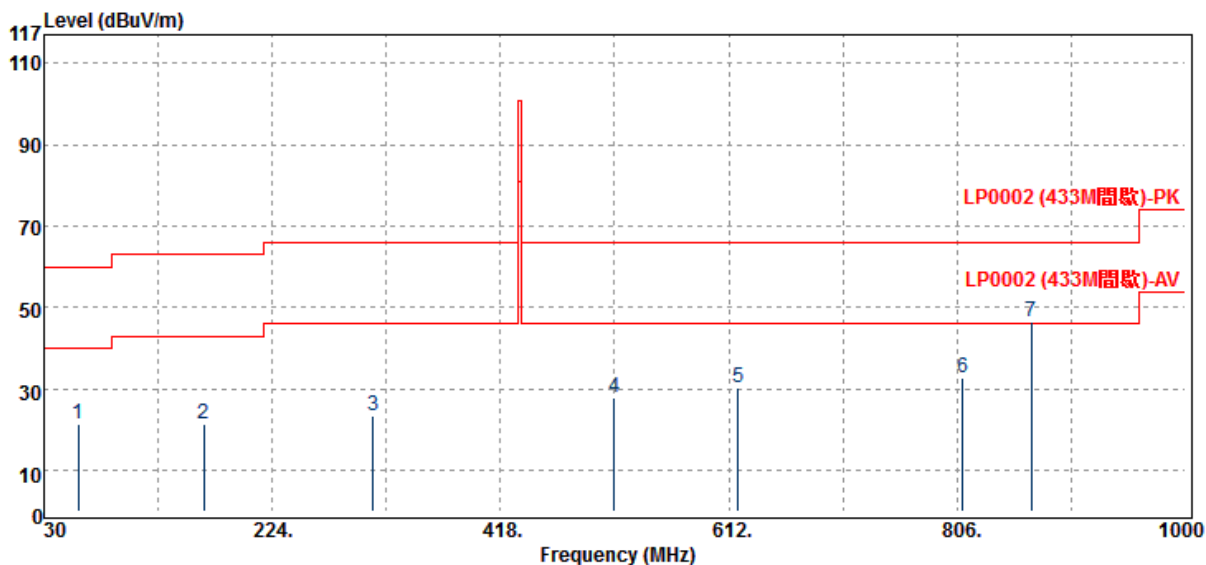
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
59.10	S	Peak	29.43	-8.03	21.40	60.00	-38.60
165.80	S	Peak	28.92	-7.40	21.52	63.00	-41.48
309.36	S	Peak	28.79	-5.49	23.30	66.00	-42.70
515.00	S	Peak	29.97	-1.94	28.03	66.00	-37.97
619.76	S	Peak	30.20	0.02	30.22	66.00	-35.78
810.85	S	Peak	29.59	3.27	32.86	66.00	-33.14
869.05	S	Average	---	-8.64	33.10	46.00	-12.90
869.05	S	Peak	41.74	4.80	46.54	66.00	-19.46

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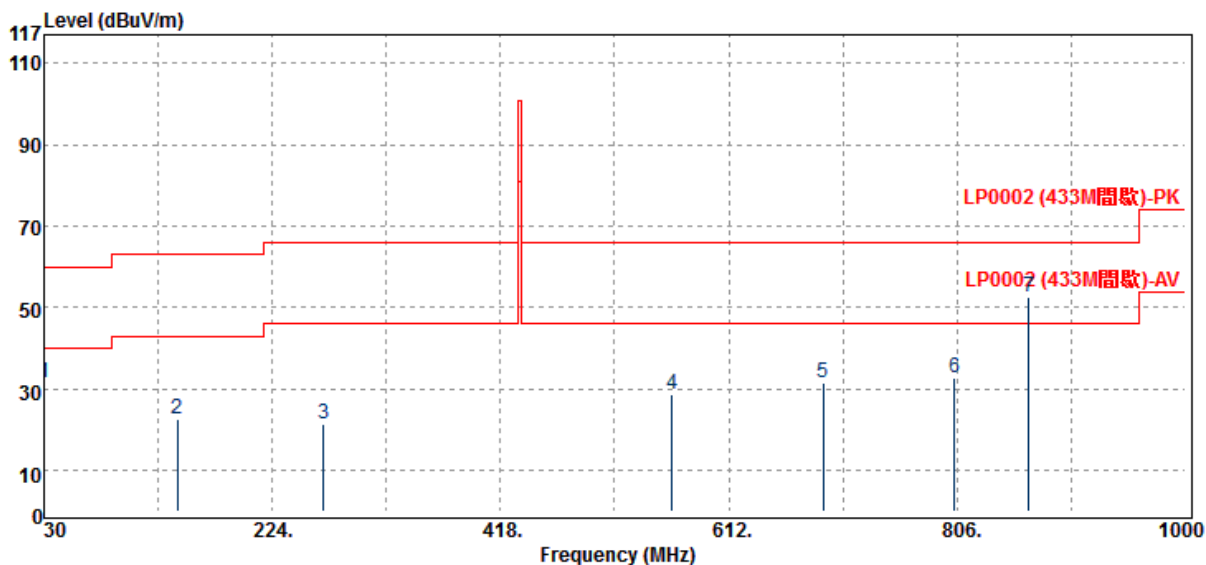
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
30.00	S	Peak	40.71	-9.19	31.52	60.00	-28.48
143.49	S	Peak	30.61	-8.09	22.52	63.00	-40.48
267.65	S	Peak	28.40	-6.94	21.46	66.00	-44.54
563.50	S	Peak	30.08	-1.25	28.83	66.00	-37.17
692.51	S	Peak	29.97	1.47	31.44	66.00	-34.56
804.06	S	Peak	29.62	3.15	32.77	66.00	-33.23
867.11	S	Average	---	-8.64	39.15	46.00	-6.85
867.11	S	Peak	47.79	4.76	52.55	66.00	-13.45

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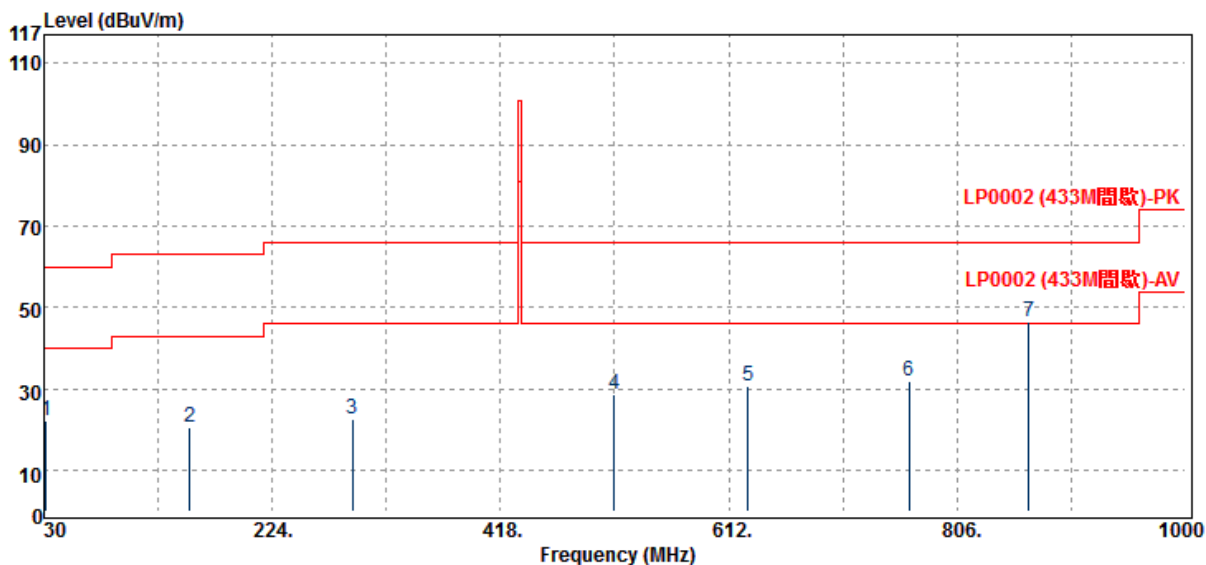
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
31.94	S	Peak	31.56	-9.11	22.45	60.00	-37.55
154.16	S	Peak	28.45	-7.69	20.76	63.00	-42.24
291.90	S	Peak	28.67	-6.08	22.59	66.00	-43.41
515.00	S	Peak	30.49	-1.94	28.55	66.00	-37.45
628.49	S	Peak	30.52	0.23	30.75	66.00	-35.25
765.26	S	Peak	28.96	3.11	32.07	66.00	-33.93
867.11	S	Average	---	-8.64	33.18	46.00	-12.82
867.11	S	Peak	41.82	4.76	46.58	66.00	-19.42

Note: Average Actual = Peak Actual + Average Factor (-8.64)

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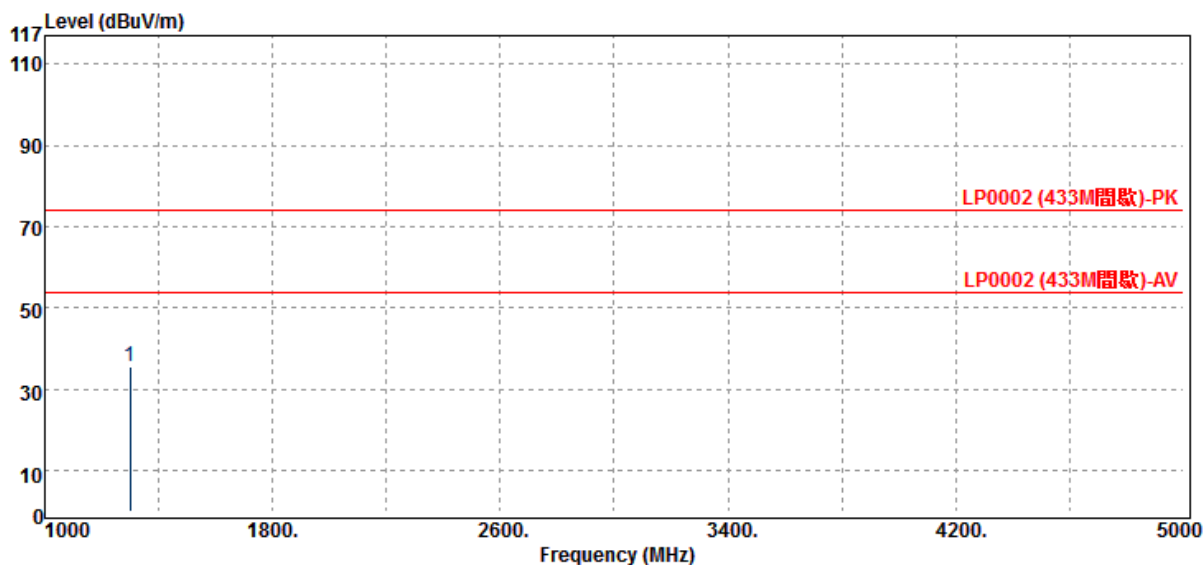
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發射機場強輻射之量測結果(1GHz 以上)

Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	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	Safe Margin dB
1300.41	H	Average	---	-8.64	32.45	54.00	-21.55
1300.41	H	Peak	41.09	-5.57	35.52	74.00	-38.48

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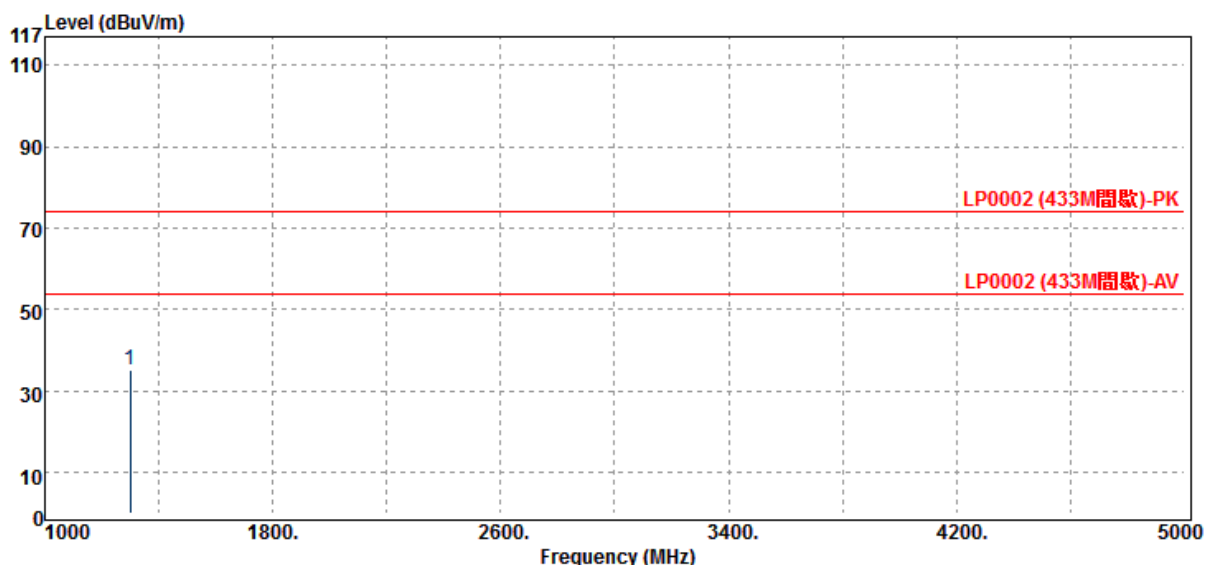
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
1300.41	H	Average	---	-8.64	32.14	54.00	-21.86
1300.41	H	Peak	40.78	-5.57	35.21	74.00	-38.79

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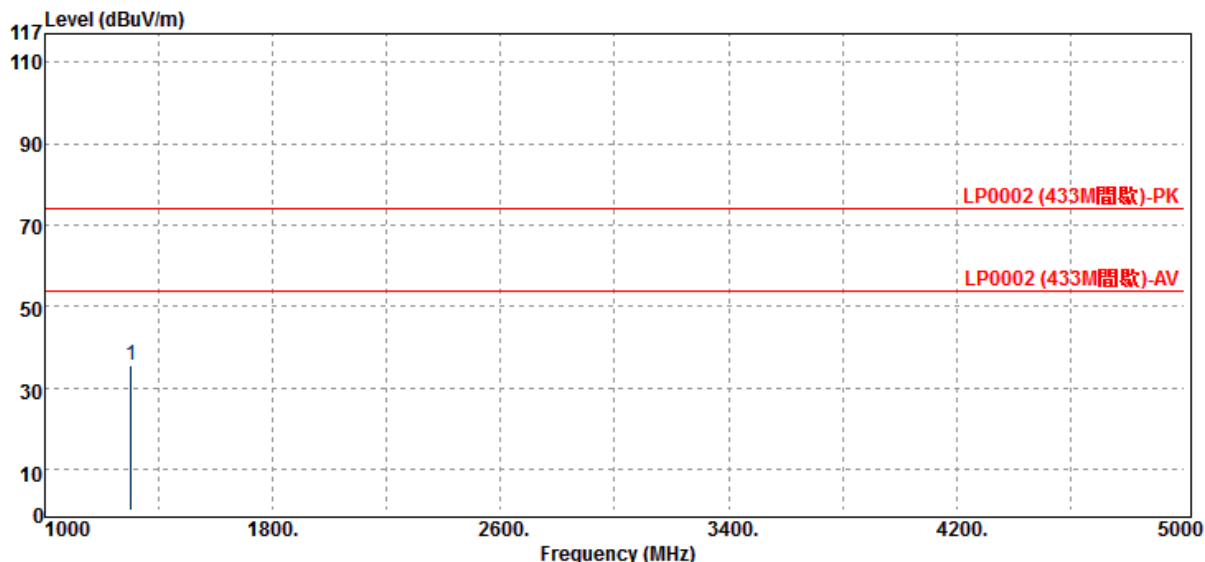
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
1301.76	H	Average	---	-8.64	32.41	54.00	-21.59
1301.76	H	Peak	41.05	-5.57	35.48	74.00	-38.52

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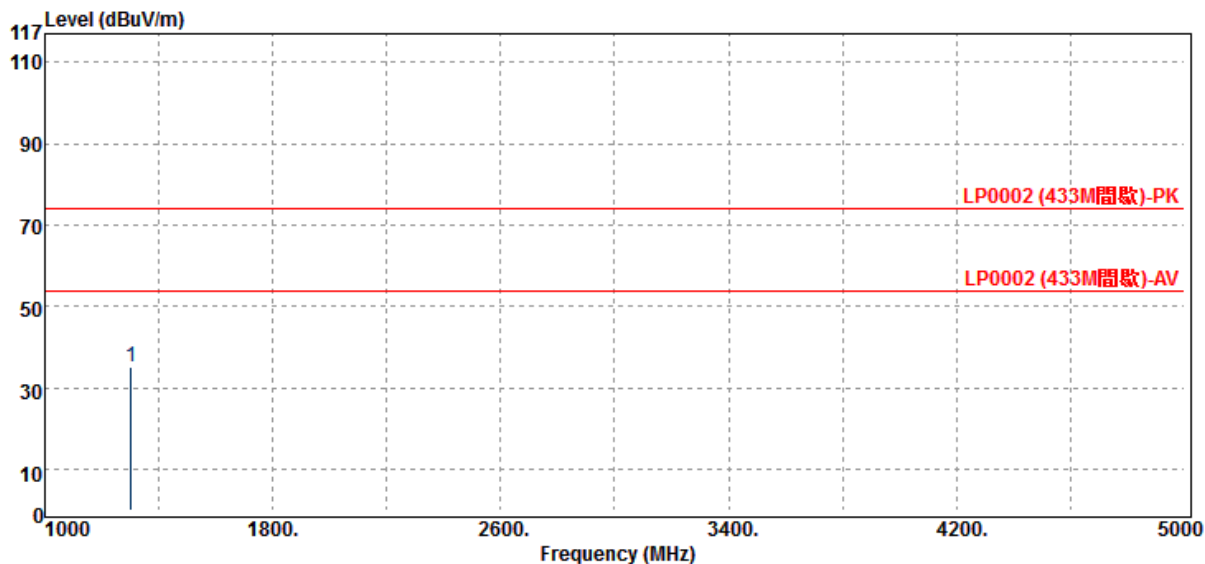
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
1301.76	H	Average	---	-8.64	32.22	54.00	-21.78
1301.76	H	Peak	40.86	-5.57	35.29	74.00	-38.71

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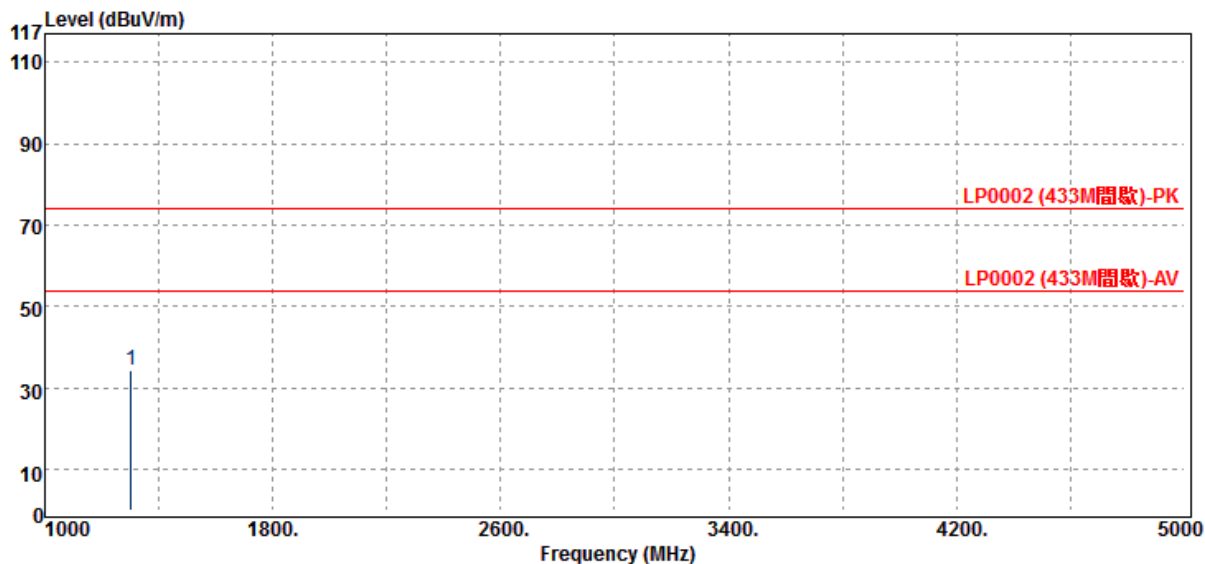
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
1303.11	H	Average	---	-8.64	31.47	54.00	-22.53
1303.11	H	Peak	40.11	-5.58	34.53	74.00	-39.47

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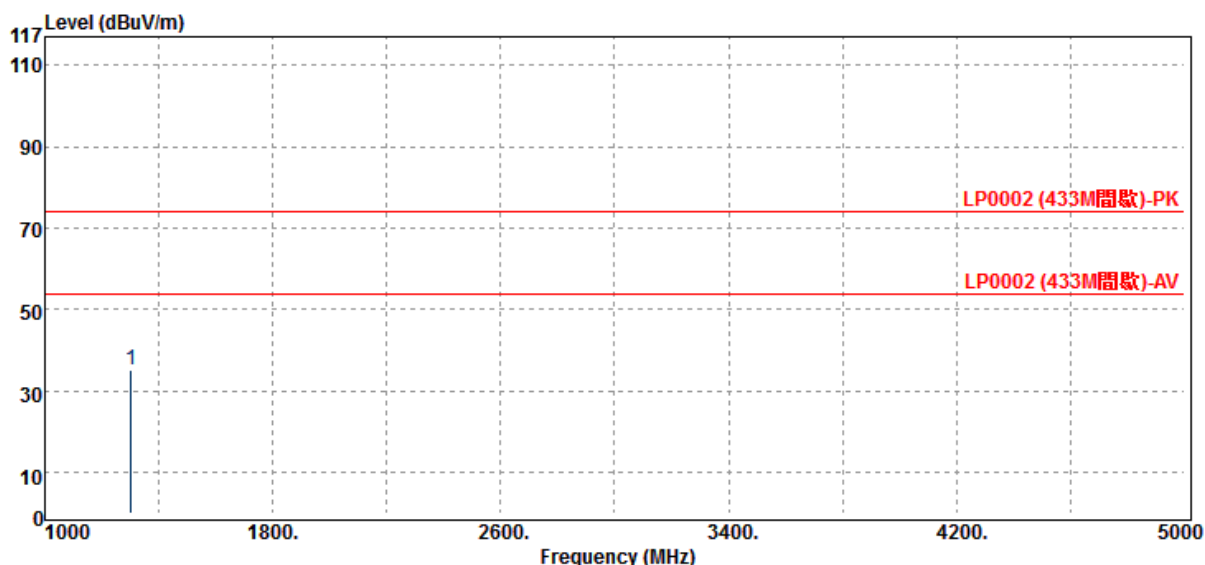
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
1303.11	H	Average	---	-8.64	32.04	54.00	-21.96
1303.11	H	Peak	40.68	-5.58	35.10	74.00	-38.90

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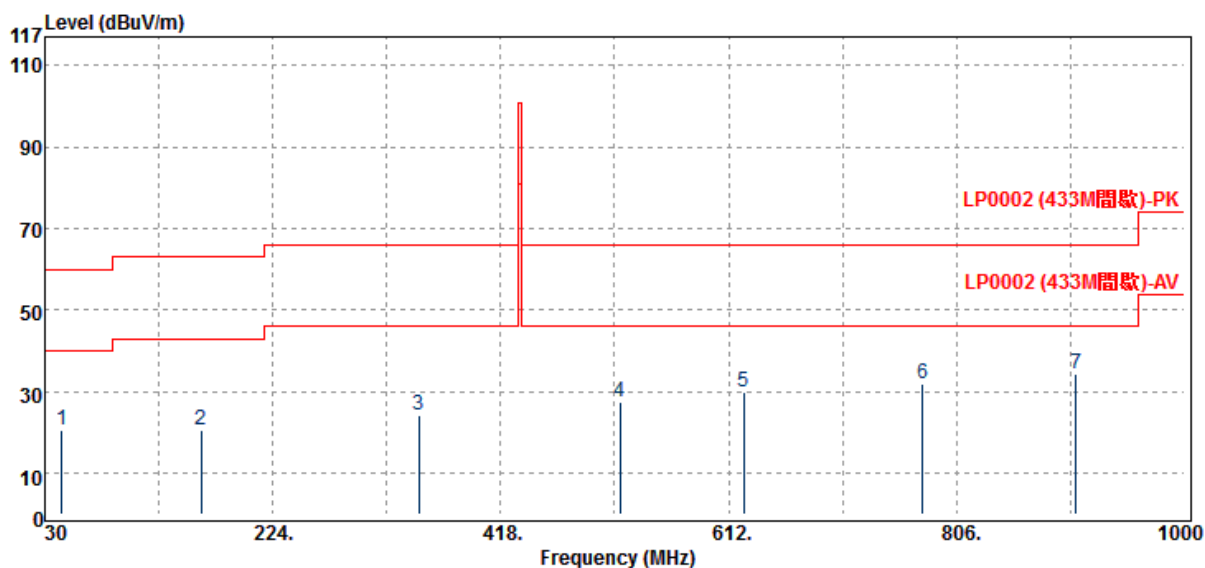
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C. 其他不必要之訊號 (一般規定之 2.8 節)

接收機場強輻射之量測結果(1GHz以下)

Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	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
44.55	S	Peak	28.88	-8.09	20.79	60.00	-39.21
162.89	S	Peak	28.09	-7.48	20.61	63.00	-42.39
348.16	S	Peak	29.04	-4.93	24.11	66.00	-41.89
519.85	S	Peak	29.25	-1.62	27.63	66.00	-38.37
624.61	S	Peak	29.63	0.15	29.78	66.00	-36.22
776.90	S	Peak	29.28	2.54	31.82	66.00	-34.18
907.85	S	Peak	29.70	4.87	34.57	66.00	-31.43

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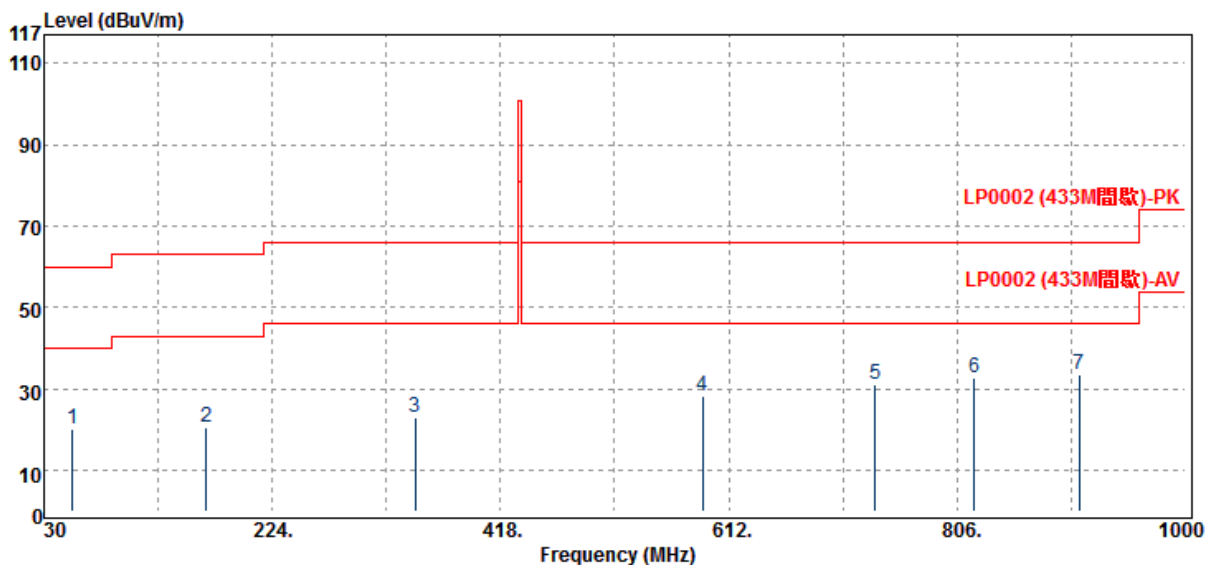
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
54.25	S	Peak	28.25	-7.82	20.43	60.00	-39.57
167.74	S	Peak	28.05	-7.46	20.59	63.00	-42.41
345.25	S	Peak	28.05	-5.10	22.95	66.00	-43.05
589.69	S	Peak	28.49	-0.20	28.29	66.00	-37.71
736.16	S	Peak	29.26	1.94	31.20	66.00	-34.80
820.55	S	Peak	29.57	3.39	32.96	66.00	-33.04
909.79	S	Peak	28.89	4.85	33.74	66.00	-32.26

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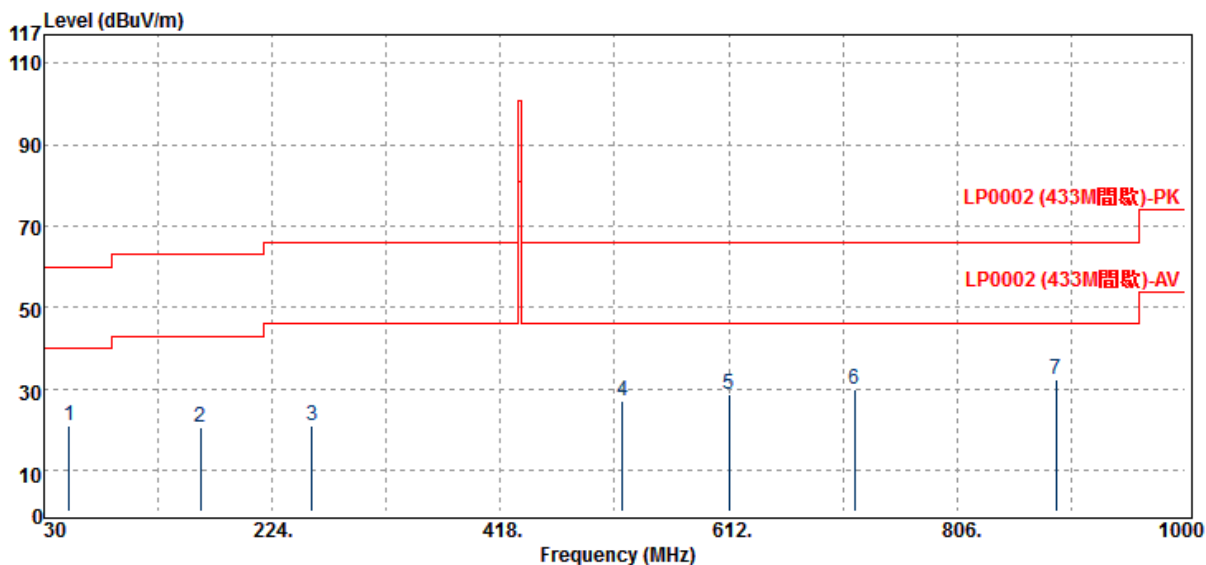
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
51.34	S	Peak	28.85	-7.75	21.10	60.00	-38.90
162.89	S	Peak	28.04	-7.48	20.56	63.00	-42.44
257.95	S	Peak	28.61	-7.37	21.24	66.00	-44.76
521.79	S	Peak	28.78	-1.61	27.17	66.00	-38.83
612.00	S	Peak	29.08	-0.34	28.74	66.00	-37.26
718.70	S	Peak	28.29	1.50	29.79	66.00	-36.21
890.39	S	Peak	27.93	4.42	32.35	66.00	-33.65

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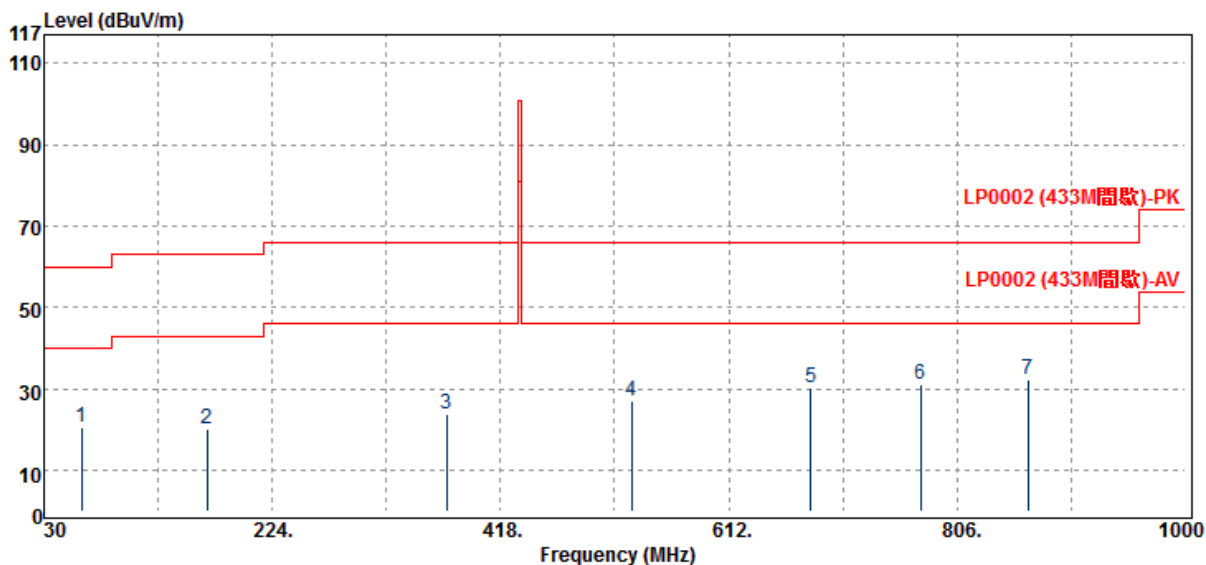
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
62.01	S	Peak	29.28	-8.47	20.81	60.00	-39.19
168.71	S	Peak	27.71	-7.52	20.19	63.00	-42.81
372.41	S	Peak	28.62	-4.54	24.08	66.00	-41.92
529.55	S	Peak	28.19	-1.25	26.94	66.00	-39.06
681.84	S	Peak	29.29	0.92	30.21	66.00	-35.79
774.96	S	Peak	28.34	2.76	31.10	66.00	-34.90
866.14	S	Peak	27.68	4.89	32.57	66.00	-33.43

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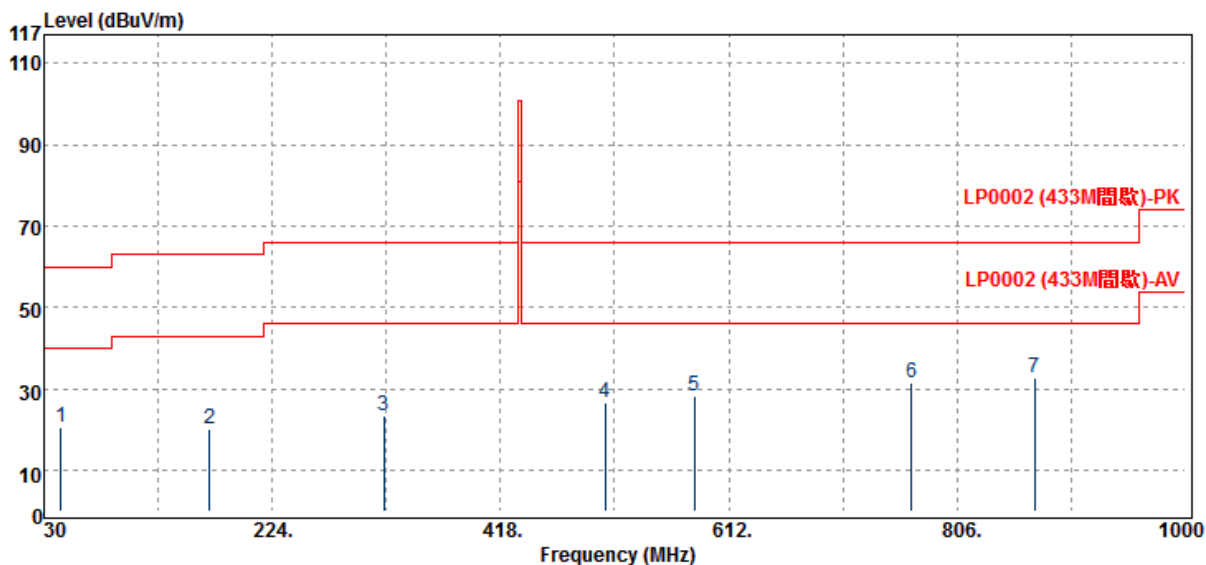
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
44.55	S	Peak	28.57	-8.09	20.48	60.00	-39.52
170.65	S	Peak	27.70	-7.66	20.04	63.00	-42.96
319.06	S	Peak	28.98	-5.42	23.56	66.00	-42.44
507.24	S	Peak	29.06	-2.32	26.74	66.00	-39.26
582.90	S	Peak	28.48	-0.32	28.16	66.00	-37.84
767.20	S	Peak	28.43	3.14	31.57	66.00	-34.43
871.96	S	Peak	27.84	5.06	32.90	66.00	-33.10

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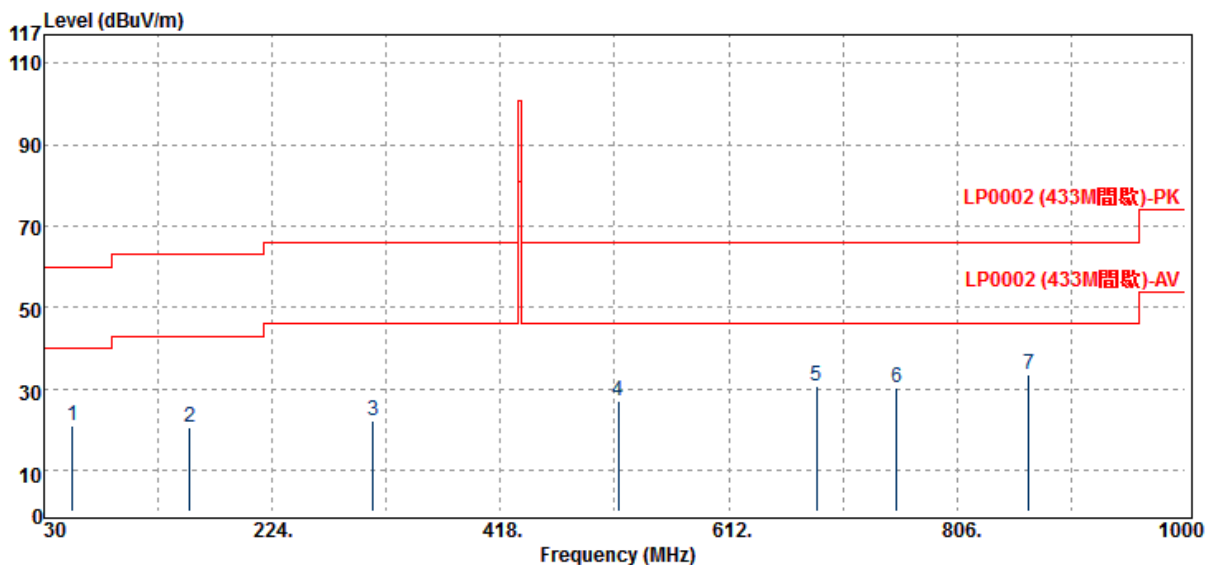
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
54.25	S	Peak	28.69	-7.82	20.87	60.00	-39.13
154.16	S	Peak	28.38	-7.69	20.69	63.00	-42.31
309.36	S	Peak	27.90	-5.49	22.41	66.00	-43.59
517.91	S	Peak	29.06	-1.82	27.24	66.00	-38.76
686.69	S	Peak	29.74	1.21	30.95	66.00	-35.05
754.59	S	Peak	27.72	2.70	30.42	66.00	-35.58
867.11	S	Peak	28.86	4.76	33.62	66.00	-32.38

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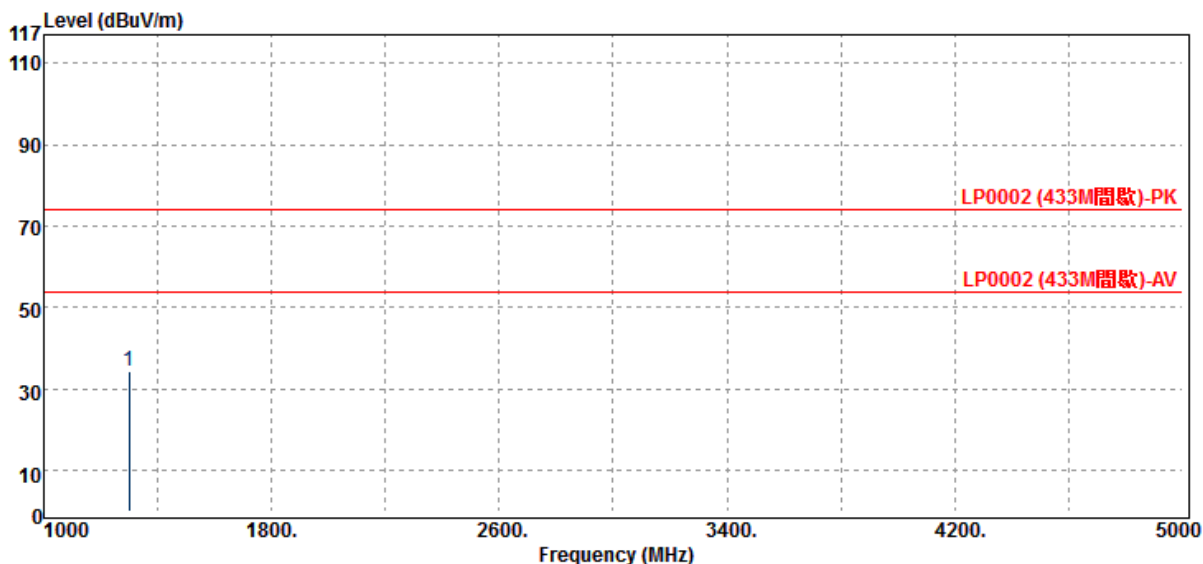
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接收機場強輻射之量測結果(1GHz 以上)

Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	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	Safe Margin dB
1300.41	H	Peak	39.95	-5.57	34.38	74.00	-39.62

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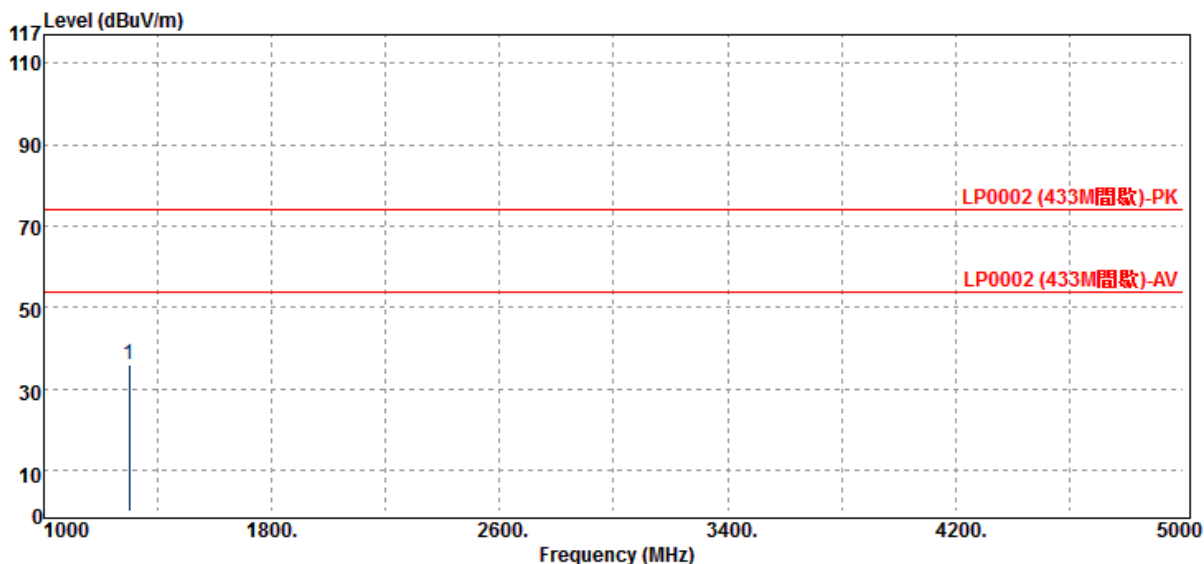
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.47 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
1300.41	H	Peak	41.65	-5.57	36.08	74.00	-37.92

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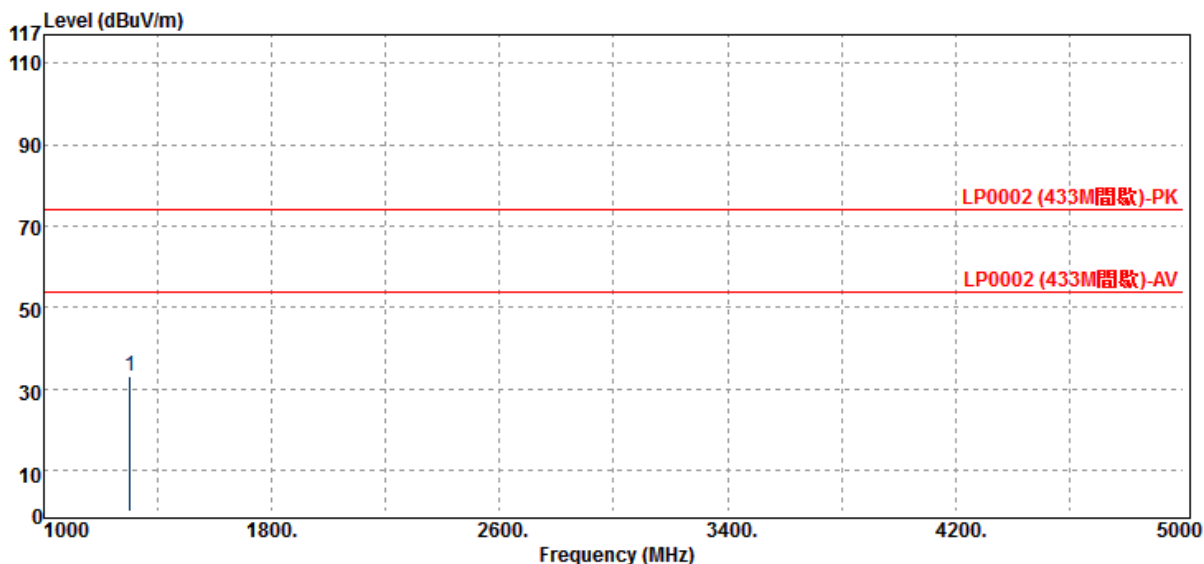
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
1301.76	H	Peak	38.84	-5.57	33.27	74.00	-40.73

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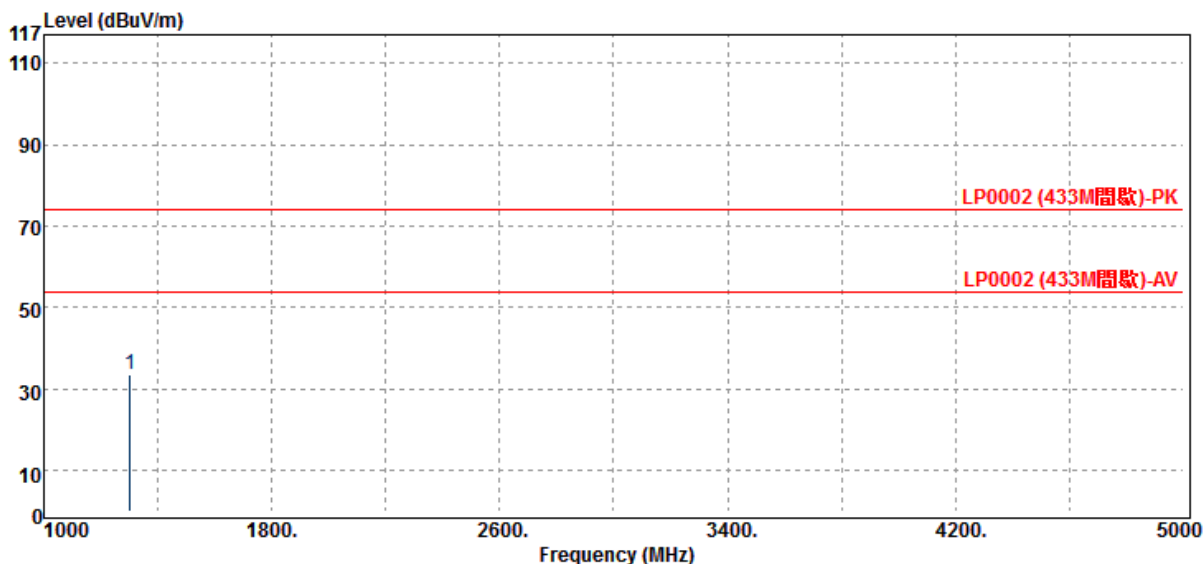
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:433.92 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH MID	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
1301.76	H	Peak	39.11	-5.57	33.54	74.00	-40.46

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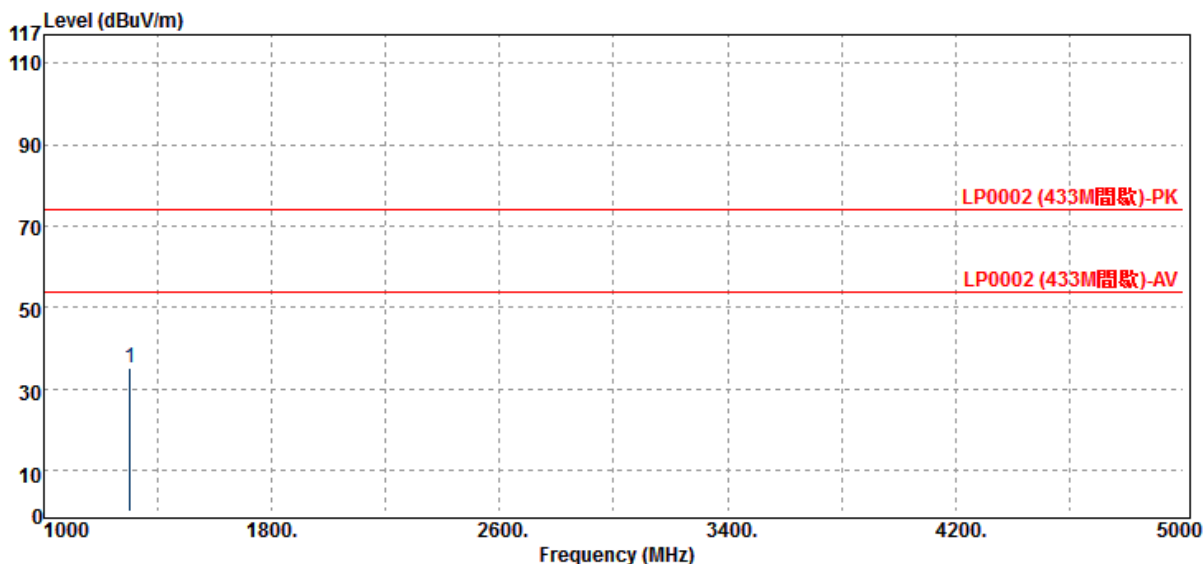
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
1303.11	H	Peak	40.69	-5.58	35.11	74.00	-38.89

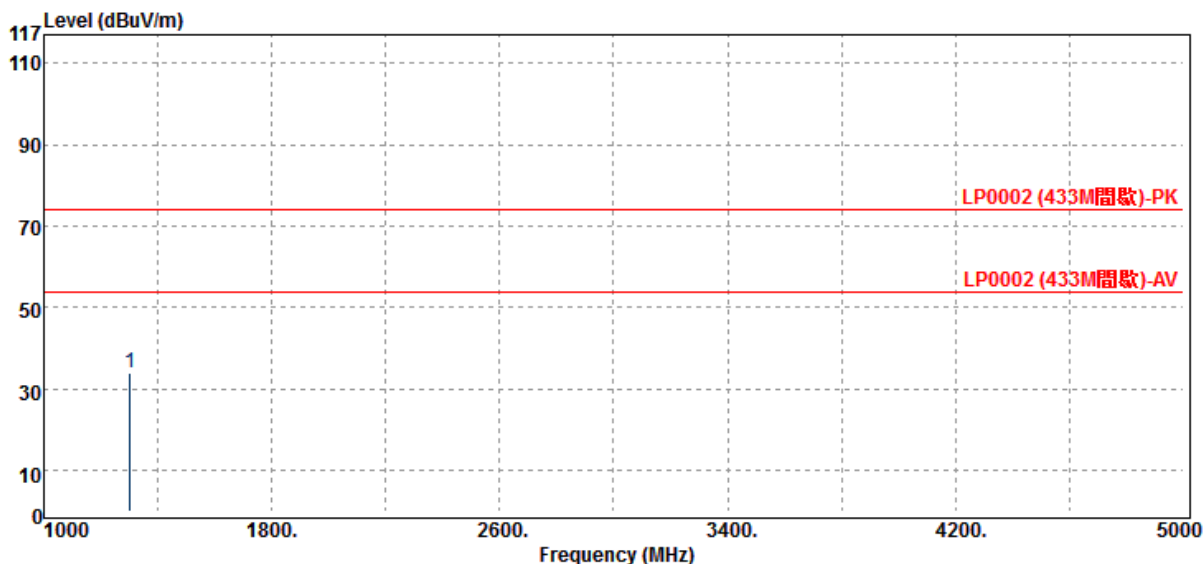
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Operation Band	:433 MHz	Test Date	:2017-10-30
Fundamental Frequency	:434.37 MHz	Temp./Humi.	:23 deg_C / 54 RH
Operation Mode	:Rx CH HIGH	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
1303.11	H	Peak	39.45	-5.58	33.87	74.00	-40.13

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7. 發射頻寬之要求

7.1 適用標準

對使用間歇性或周期性(periodic)發射之器材，依據 NCC 低功率射頻電機技術規範 3.4.2.2 節之規定，在 70 兆赫(MHz)至 900 兆赫(MHz)間作業者，其發射頻寬限於中心頻率之 0.25% 以內。頻寬係由低於經調變之主波 20dB 點求取。

7.2 測試配置



7.3 發射頻寬之量測儀器

參考 4.2 節

7.4 量測結果

Frequency (MHz)	-20dB Bandwidth (kHz)	Limit = Frequency *0.25% (MHz)	Result
433.47	41.01	1.0837	PASS
433.92	40.80	1.0848	PASS
434.37	40.34	1.0859	PASS

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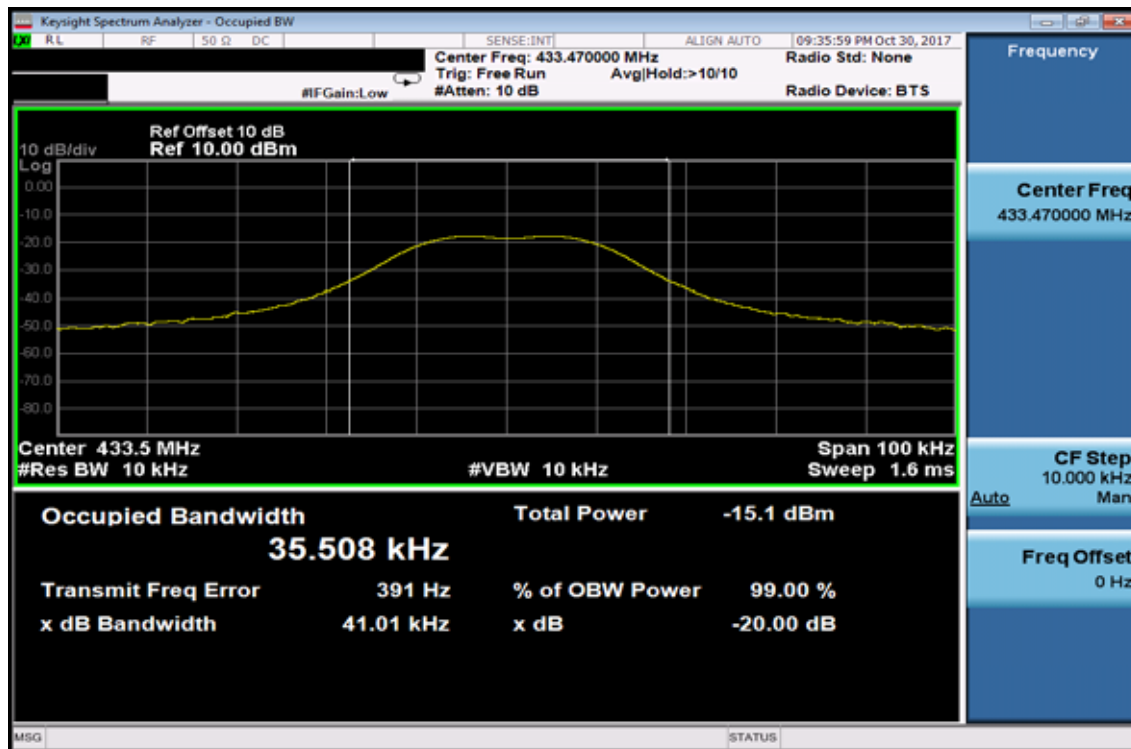
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發射頻寬測試值

待測設備: Vehicle Key
環境溫度: 22°C
解析頻寬: 10kHz
Span: 200kHz

型號: PK3
環境濕度: 65%
視訊頻寬: 30kHz

CH Low



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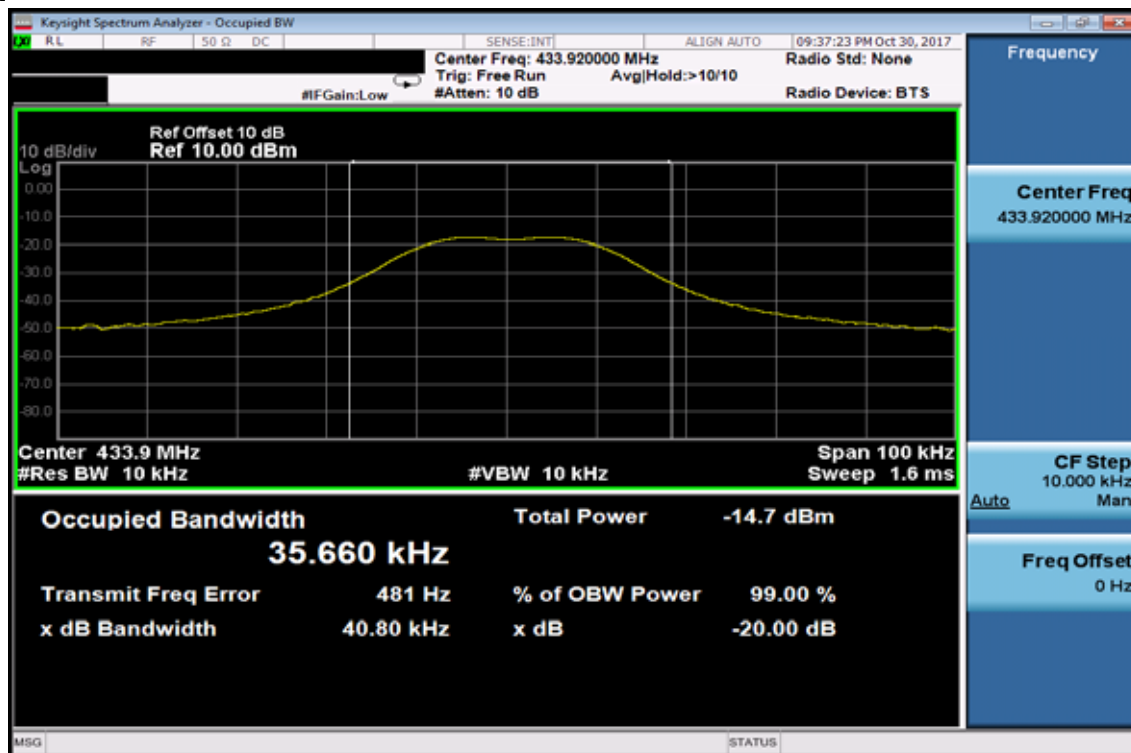
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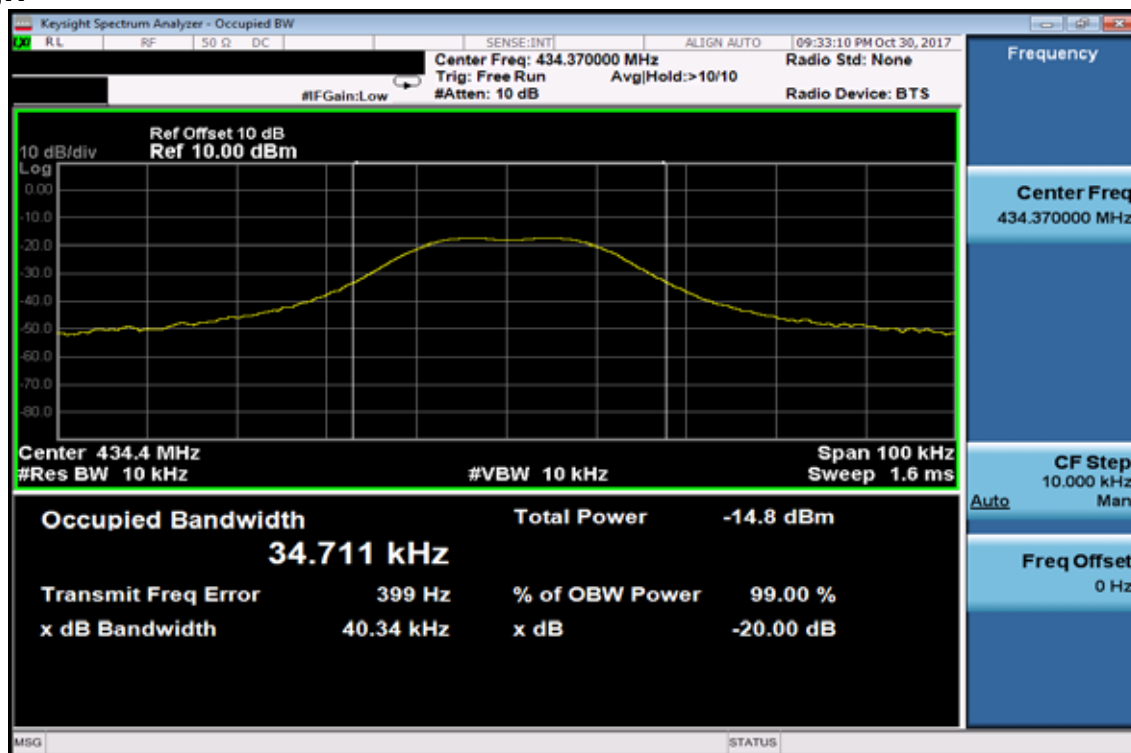
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CH Mid



CH High



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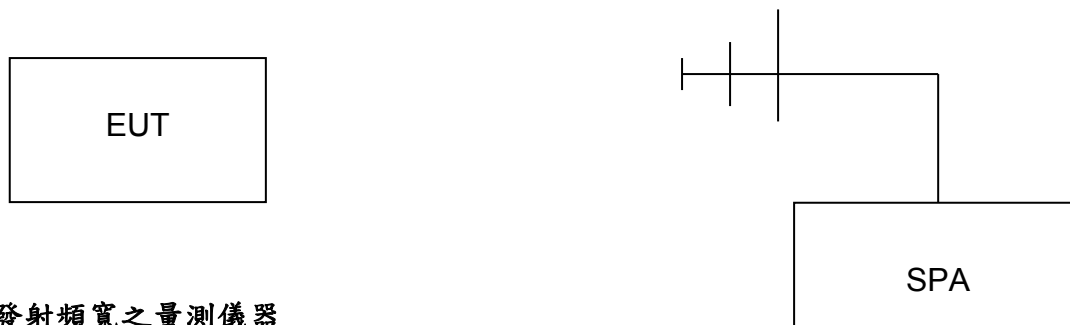
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8. 發射及停止時間之要求

8.1 適用標準

在 314-316MHz 及 433-435MHz 作業者：如為手動發射器材者須有一開關，按下並釋放此開關後 5 秒內應自動停止發射。具自動控制裝置者每次發射時間應少於 5 秒。

8.2 測試配置



8.3 發射頻寬之量測儀器

參考 4.2 節

8.4 量測結果

發射器會於 五秒內停止發射，量測結果: 合格

請參考下圖

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待測設備: Vehicle Key

型號: PK3

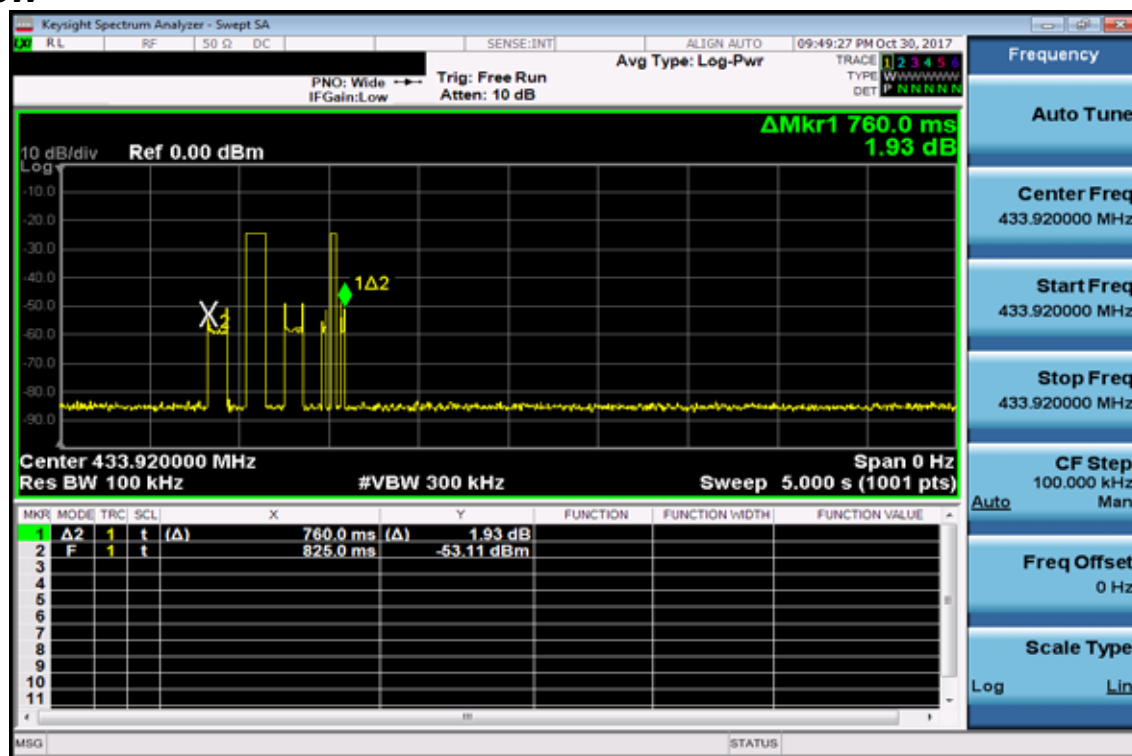
環境溫度: 22°C

環境濕度: 65%

解析頻寬: 100kHz

視訊頻寬: 300kHz

Span: 0Hz

CH Low

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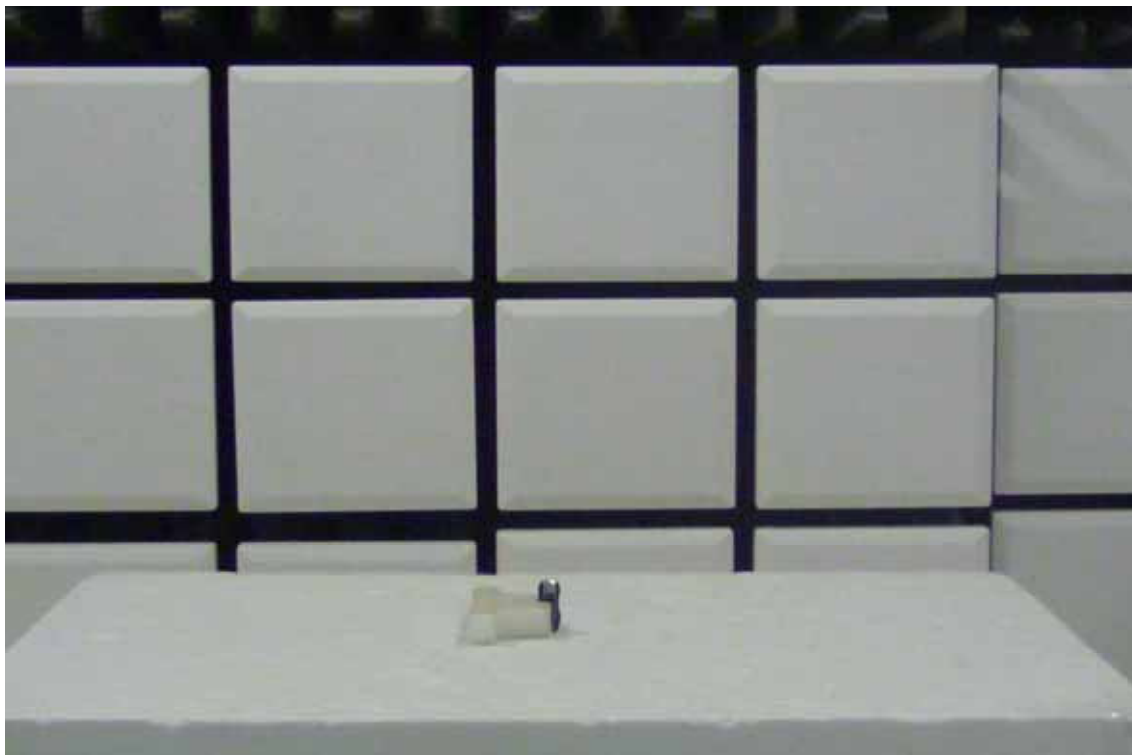
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測試照片

輻射干擾測試照片_1GHz 以下



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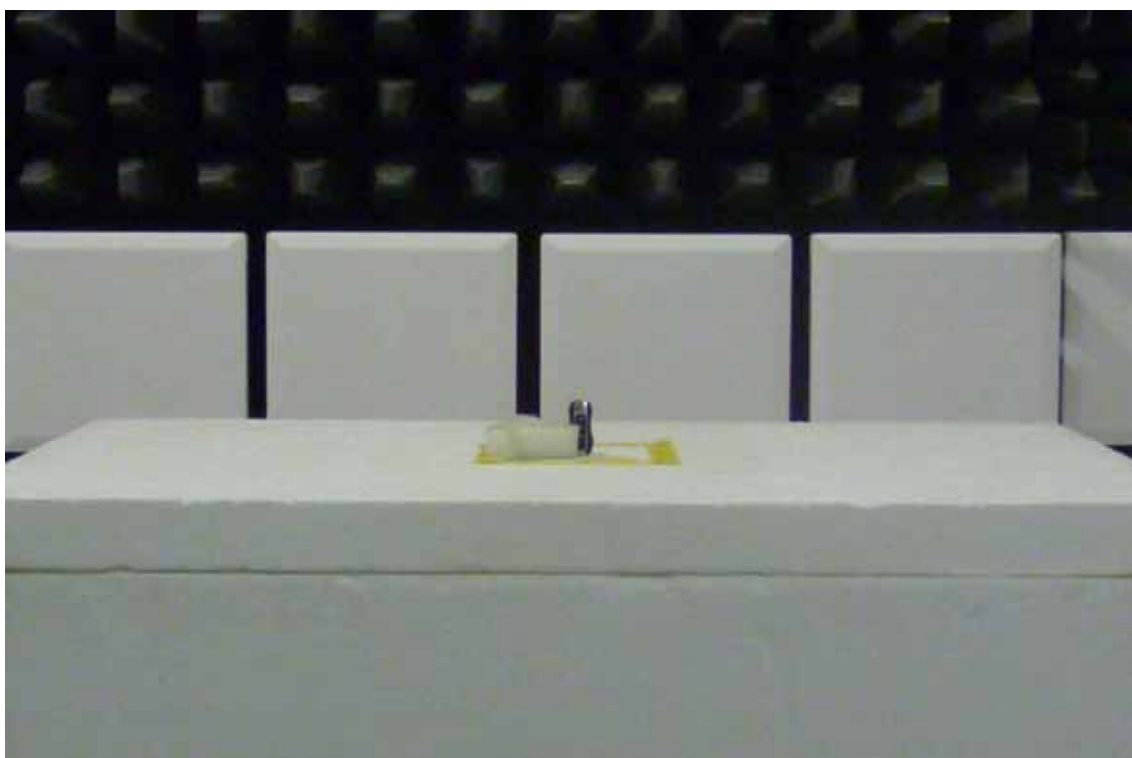
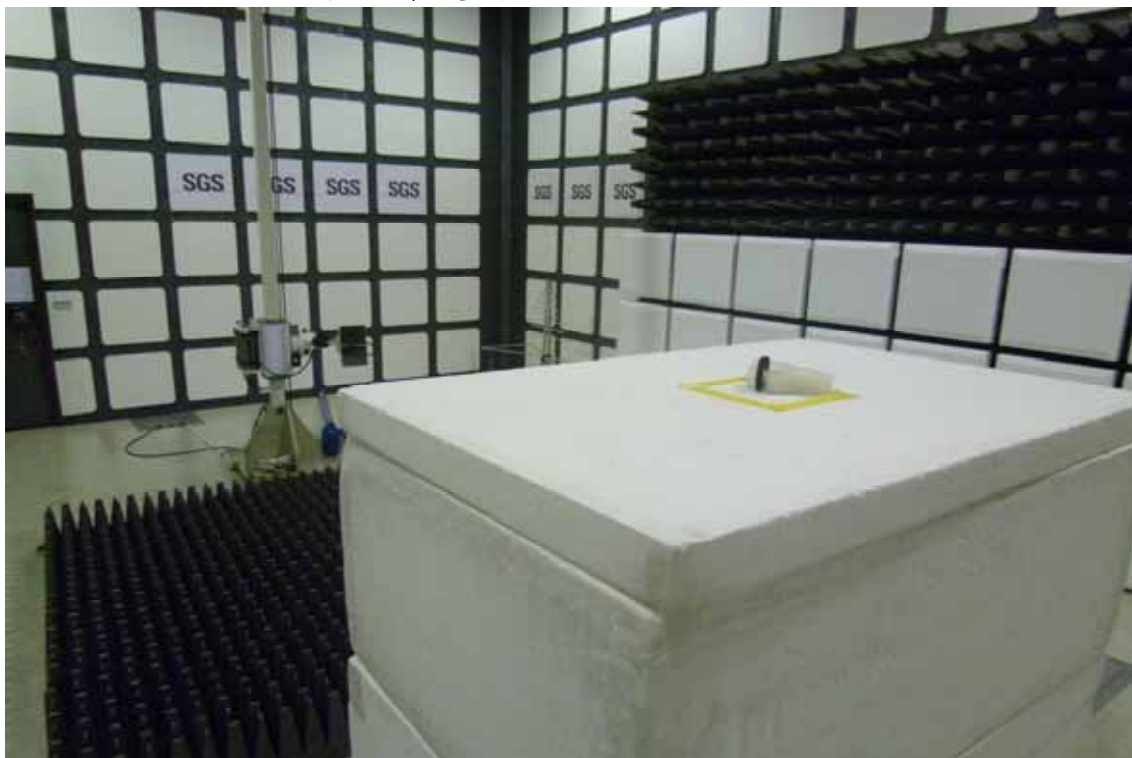
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輻射干擾測試照片_1GHz 以上



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脈衝時間、發射停止時間及發射頻寬測試照片



產品照片

Please refer to the attached file(EUT Photo).

~ End of Report ~

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