



晶復科技股份有限公司

A Test Lab Techno Corp.

低功率射頻電機試驗報告

報告編號 1910DR61

版本(Rev.) 00

產品名稱 HUAWEI FreeBuds 3

申請廠商 訊嵐技術有限公司

商標或廠牌 HUAWEI

型式 (號) CM-SHK00

產品試驗依據之標準 低功率射頻電機技術規範(LP0002) 107 年 1 月 10 日

報告發行日期 108 年 11 月 04 日

填發本型式認可報告之試驗機構 (認可代號)

晶復科技股份有限公司
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財團法人全國認證基金會
認證編號 : 1330
認證有效期間 : 108.09.06 ~ 111.09.05
認可能量範圍 : 低功率射頻電機技術規範(LP0002)
2.4 GHz 射頻電信終端設備技術規範(RTTE01)

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報告修訂紀錄

版本 (Rev.)	發行日期	修訂內容	修訂者
00	108 年 11 月 04 日	初版發行	鄭安綦

低功率射頻電機測試證明書

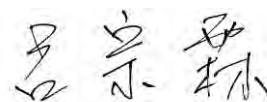
發行日期：108年11月04日

產品名稱：HUAWEI FreeBuds 3
商標：HUAWEI
型號：CM-SHK00
申請廠商：訊嵐技術有限公司
申請者地址：臺北市內湖區洲子街55、57號3樓
製造廠商：HUAWEI TECHNOLOGIES CO., LTD.
製造商地址：Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzh
待測物電壓：DC 3.82 V, 30 mAh
試驗電壓：110 Vac, 60 Hz / DC 3.8 V
量測規範：低功率射頻電機技術規範(LP0002) 107年1月10日
試驗實驗室：晶復科技股份有限公司(桃園市八德區長安街140-1號)
試驗受理日期：108 年 10 月 21 號
樣品接受日期：108 年 10 月 23 號
試驗完成日期：108 年 10 月 24 號

報告中所描述之測試結果與待測設備之架構組合，均根據實際量測情況作詳實的記錄。
由測試結果顯示，上述待測設備樣機確實已符合低功率射頻電機技術規範(LP0002)所規定的各項限制值。

特此證明！

審核者：



(呂 宗 霖)

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1. 一般敘述

1.1 待測設備一般敘述

本敘述僅針對產品簡單說明之，其他詳細之規格請參考使用說明書。

產 品 名 稱	HUAWEI FreeBuds 3			
商 標 或 廠 牌	HUAWEI			
型 號	CM-SHK00			
額 定 電 源	DC 3.82 V, 30 mAh			
調 變 方 式	GFSK, $\pi/4$ -DQPSK, 8DPSK			
頻 率 使 用 範 圍	2402 MHz – 2480 MHz			
天 線 廠 牌	歌爾			
天 線 型 號	14241728			
天 線 型 態	FPCB Antenna			
天 線 增 益 值	0 dBi			
RF 最大輸出功率	BR, GFSK:	8.43 dBm/	0.00697 W	
	EDR, $\pi/4$ -DQPSK:	7.24 dBm/	0.00530 W	
	EDR, 8DPSK:	7.57 dBm/	0.00571 W	
	LE, GFSK:	4.81 dBm/	0.00303 W	
	2LE, GFSK:	4.74 dBm/	0.00298 W	
註：此產品為右耳耳機				

輸出/輸入埠說明：

輸 出 / 入 埠		數量	介面內容說明
1	DC Power Port	1	連接至充電盒

待測設備外圍說明：

電 源 線 類 別	無
附 屬 裝 置	請參見下列附屬裝置表

附屬裝置表：

裝置名稱	廠 牌 / 製造商	型 號	備 註
內建固定式電池	HUAWEI	HB05260ECW	DC3.82 V, 30 mAh
充電盒	HUAWEI	CM-SHK	INPUT : 5 VDC, 1.5 A OUTPUT : 5 VDC, 0.1 A
USB Cable (For 充電盒)	HUAWEI	04071773	STD-A → Type-C Shielded, 1.0 m
HUAWEI FreeBuds 3 (左耳耳機)	HUAWEI	CM-SHK00	---

1.2 其他相關聲明

本測試報告屬(以下選擇一種打■)

☒	申請新的型式檢驗認可的測試。
☐	已取得型式檢驗認可之商品,因設計變更而重新測試 (變更內容請參考產品概述). 登錄號碼: XXXXXXXX

2. 量測儀器及測試配置說明

2.1 量測設備

For Conducted

Test Period: Oct. 24, 2019

測試者: Negi Chiu

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
Power Sensor	Anritsu	MA2411B	1126022	09/02/2019	1 year
Power Meter	Anritsu	ML2495A	1135009	09/02/2019	1 year
Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	01/22/2019	1 year
Bluetooth Tester	R&S	CBT	100350	03/27/2019	2 years

For Conducted Emission

Test Period: Oct. 23, 2019

測試者: Louis Shen

名稱	廠牌	型號	序號	本次校驗日期	校驗年限
Test Receiver	R&S	ESCI	100367	05/23/2019	1 year
LISN	R&S	ENV216	101040	04/03/2019	1 year
LISN	R&S	ENV216	101041	03/28/2019	1 year

For Radiated Emissions

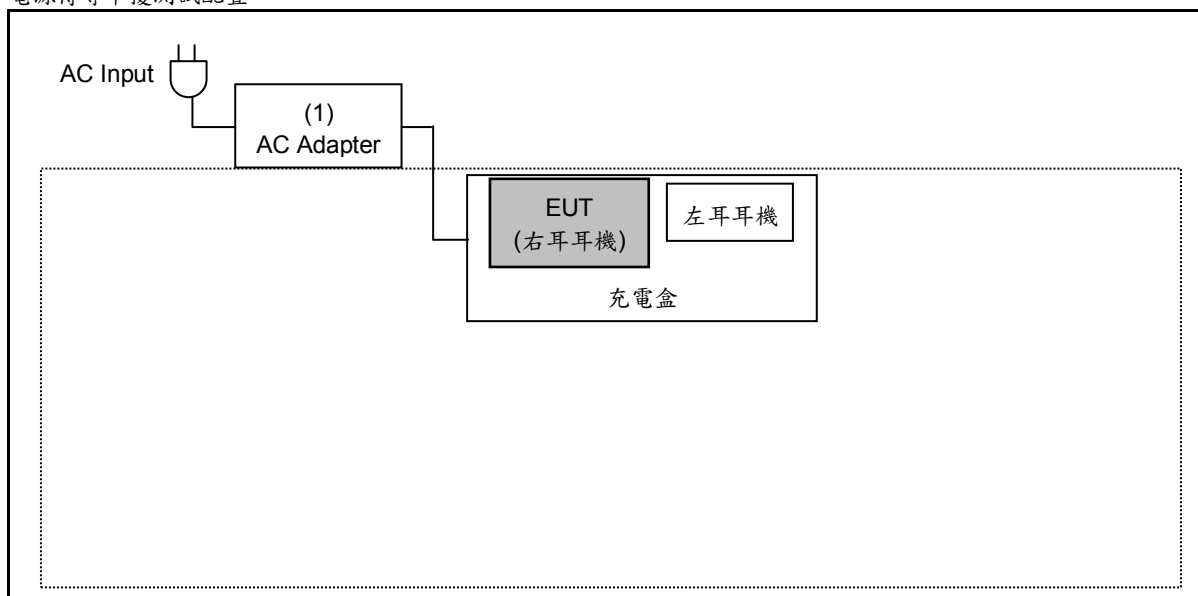
Test Period: Oct. 23, 2019

測試者: Ricky Liu

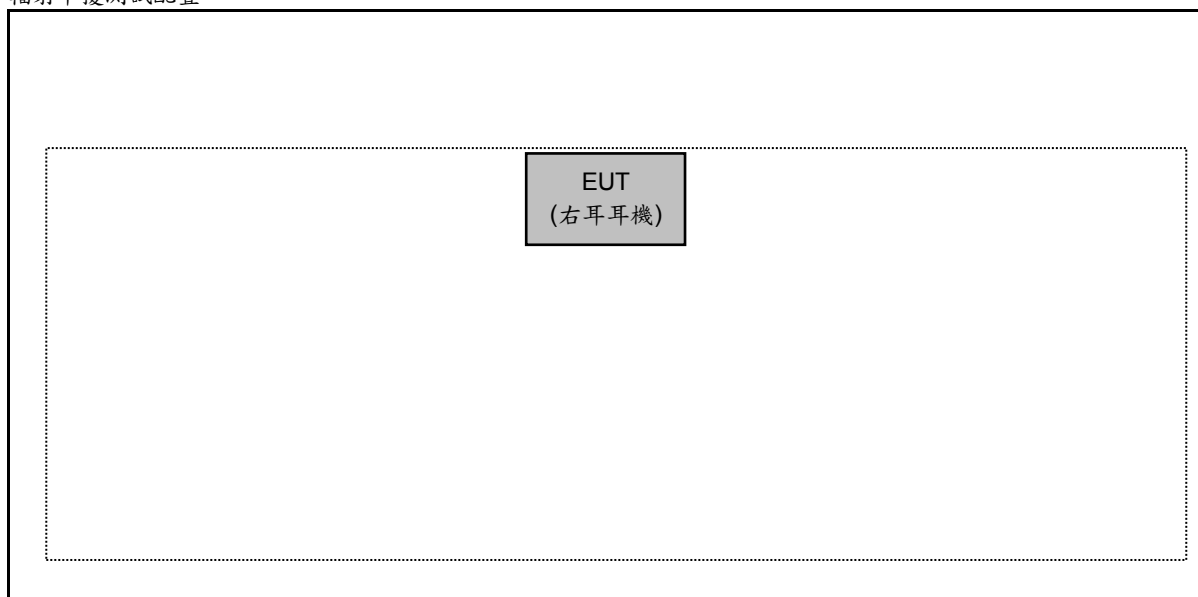
名稱	廠牌	型號	序號	本次校驗日期	校驗年限
藍芽模擬基地台	R & S	CBT	100350	03/27/2019	2 years
EXA Signal Analyzer	Keysight	N9010A	MY52221312	01/14/2019	1 year
Amplifier	Agilent	8449B	3008A02456	10/18/2019	1 year
Amplifier	Agilent	8447D	2944A11119	01/14/2019	1 year
天線	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	841	11/19/2018	1 year
天線(1~18 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	08/22/2019	1 year
天線(18~40 GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	08/14/2019	1 year

2.2 檢驗系統示意圖

電源傳導干擾測試配置



輻射干擾測試配置



2.3 輔助測試之週邊設備描述

下列輔助設備或配件為測試中所使用，以形成一個代表性的受測系統。

週邊名稱		商標	型號	序號	電源線	備註
(1)	AC Adapter	HUAWEI	HW-100400U00	---	---	INPUT: 100-240 VAC, 50/60 Hz, 1.2 A OUTPUT: 5 VDC, 2.0 A OR 9 VDC, 2.0 A OR 10 VDC, 4.0 A

2.4 測試軟體版本

Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	1.1.4.3
2	Radiated Emission	EZ EMC	1.1.4.4

2.5 測試模式

Pre-Test Mode
Mode 1: Charge Mode
Mode 2: BR, GFSK Continuous TX Mode
Mode 3: EDR, $\pi/4$ -DQPSK Continuous TX Mode
Mode 4: EDR, 8DPSK Continuous TX Mode
Mode 5: LE, GFSK Continuous TX Mode
Mode 6: 2LE, GFSK Continuous TX Mode
Mode 7: Receiver Mode

Final-Test Mode
Mode 1: Charge Mode
Mode 2: BR, GFSK Continuous TX Mode
Mode 4: EDR, 8DPSK Continuous TX Mode
Mode 5: LE, GFSK Continuous TX Mode
Mode 6: 2LE, GFSK Continuous TX Mode
Mode 7: Receiver Mode

2.6 量測不確定度

下列量測不確定水準是參照量測儀器 CISPR 16-4-2 所規定之不確定度。

Test Item	Frequency Range	Uncertainty (dB)
Conducted Emission	150 kHz ~ 30 MHz	2.8
Radiated Emission	9 kHz ~ 30 MHz	1.7
	30 MHz ~ 1000 MHz	5.7
	1000 MHz ~ 18000 MHz	5.6
	18000 MHz ~ 26500 MHz	4.9
	26500 MHz ~ 40000 MHz	4.8
Conducted Output Power	+0.27 dB / -0.28 dB	
RF Bandwidth	4.96 %	
Power Spectral Density	+0.71 dB / -0.77 dB	

Decision Rule

☒ Uncertainty is not included.

☐ Uncertainty is included.

2.7 試驗環境

產品測試時之實驗室環境條件如下：

項 目	測 試 項 目	需 求	實 際
溫度 Temperature (°C)	LP0002	10 - 40	23 - 26
濕度 Humidity (%RH)		10 - 90	55 - 60

3. 測試項目與結果判定總表

本測試報告之所有項目皆依據 NCC 低功率射頻電機技術規範(LP0002)之檢驗法。

BR/EDR 測試項目

項次	測試項目	適用規範	測試結果	量測設備	結果判定
1	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2(1)(B)節	請參閱4.1節	請參閱2.1節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱4.2節	請參閱2.1節	合格
3	場強輻射 (1 GHz以上)	低功率射頻電機技術規範 2.8節、2.9節、3.10.1.5節	請參閱4.3節	請參閱2.1節	合格
4	場強輻射其它不必要之訊號 (1 GHz以下)	低功率射頻電機技術規範 2.8節、2.9節、3.10.1.5節	請參閱4.3節	請參閱2.1節	合格
5	頻帶邊緣外之輻射發射	低功率射頻電機技術規範 3.10.1.5節	請參閱4.3節	請參閱2.1節	合格
6	非必要頻帶	低功率射頻電機技術規範 3.10.1.5節	請參閱4.4節	請參閱2.1節	合格
7	頻率範圍	低功率射頻電機技術規範 3.10.1.1節	請參閱4.5節	請參閱2.1節	合格
8	發射頻寬	低功率射頻電機技術規範 3.10.1.6(1)(A)節	請參閱4.6節	請參閱2.1節	合格
9	頻道數	低功率射頻電機技術規範 3.10.1.6(1)(A)(a)節	請參閱4.7節	請參閱2.1節	合格
10	跳頻系統之載波頻率頻道間隔	低功率射頻電機技術規範 3.10.1.6(1)(A)節	請參閱4.8節	請參閱2.1節	合格
11	跳頻系統之任一頻率佔用之 平均時間	低功率射頻電機技術規範 3.10.1.6(1)(A)(a)節	請參閱4.9節	請參閱2.1節	合格
12	天線規格	低功率射頻電機技術規範 3.10.1.3(3)節、3.10.1.4節	請參閱4.11節	-----	合格

LE/2LE 測試項目

項次	測試項目	適用規範	測試結果	量測設備	結果判定
1	輸出峰值功率	低功率射頻電機技術規範 3.10.1.2(1)(C)節	請參閱4.1節	請參閱2.1節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱4.2節	請參閱2.1節	合格
3	場強輻射 (1 GHz以上)	低功率射頻電機技術規範 2.8節、2.9節、3.10.1.5節	請參閱4.3節	請參閱2.1節	合格
4	場強輻射其它不必要之訊號 (1 GHz以下)	低功率射頻電機技術規範 2.8節、2.9節、3.10.1.5節	請參閱4.3節	請參閱2.1節	合格
5	頻帶邊緣外之輻射發射	低功率射頻電機技術規範 3.10.1.5節	請參閱4.3節	請參閱2.1節	合格
6	非必要頻帶	低功率射頻電機技術規範 3.10.1.5節	請參閱4.4節	請參閱2.1節	合格
7	發射頻寬	低功率射頻電機技術規範 3.10.1.6(2)(A)節	請參閱4.6節	請參閱2.1節	合格
8	功率密度	低功率射頻電機技術規範 3.10.1.6(2)(B)節	請參閱4.10節	請參閱2.1節	合格
9	天線規格	低功率射頻電機技術規範 3.10.1.3(3)節、3.10.1.4節	請參閱4.11節	-----	合格

4. 測試項目表列

4.1 輸出峰值功率之量測

合格標準：

BR/EDR

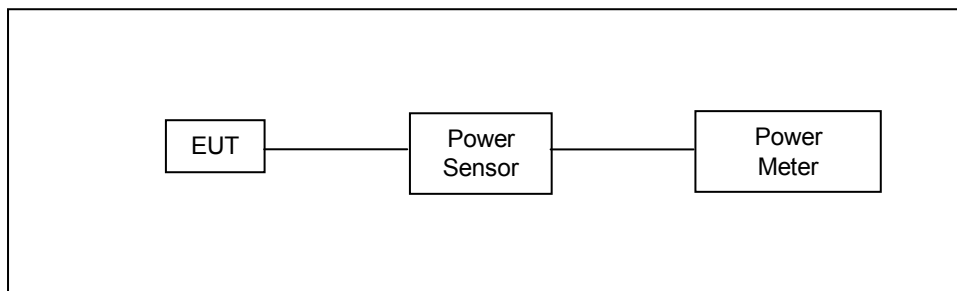
依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.2(1)(B)節之要求，所有操作於 2400-2483.5 兆赫且輸出功率應小於或等於 0.125 W 。

LE/2LE

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.2(1)(C)節之要求，操作於 2400-2483.5 兆赫(MHz)之所有數位調變技術系統：1 瓦(W)以下。

除使用附件二之峰值輸出功率量測方式外，並得使用以最大傳導輸出功率(Maximum Conducted Output Power)作為量測方式。

測試架構圖：



測試結果:

操作模式 : Mode 2: BR,GFSK Continuous TX Mode						
頻道		輸出功率(Average)		輸出功率(Peak)		限制值
		dBm	W	dBm	W	W
低頻道	DH1	7.86	0.00611	7.71	0.00590	≤0.125
	DH3	7.91	0.00618	7.74	0.00594	≤0.125
	DH5	8.00	0.00631	7.88	0.00614	≤0.125
中頻道	DH1	8.12	0.00649	8.28	0.00673	≤0.125
	DH3	8.20	0.00661	8.34	0.00682	≤0.125
	DH5	8.30	0.00676	8.43	0.00697	≤0.125
高頻道	DH1	7.41	0.00551	7.50	0.00562	≤0.125
	DH3	7.42	0.00552	7.53	0.00566	≤0.125
	DH5	7.46	0.00557	7.58	0.00573	≤0.125

操作模式 : Mode 3: EDR, π/4-DQPSK Continuous TX Mode						
頻道		輸出功率(Average)		輸出功率(Peak)		限制值
		dBm	W	dBm	W	W
低頻道	2DH1	3.99	0.00251	6.70	0.00468	≤0.125
	2DH3	4.04	0.00254	6.76	0.00474	≤0.125
	2DH5	4.14	0.00259	6.80	0.00479	≤0.125
中頻道	2DH1	4.31	0.00270	7.04	0.00506	≤0.125
	2DH3	4.42	0.00277	7.13	0.00516	≤0.125
	2DH5	4.55	0.00285	7.24	0.00530	≤0.125
高頻道	2DH1	3.59	0.00229	6.29	0.00426	≤0.125
	2DH3	3.66	0.00232	6.35	0.00432	≤0.125
	2DH5	3.72	0.00236	6.47	0.00444	≤0.125

操作模式 : Mode 4:EDR, 8DPSK Continuous TX Mode						
頻道		輸出功率(Average)		輸出功率(Peak)		限制值
		dBm	W	dBm	W	W
低頻道	3DH1	4.07	0.00255	6.72	0.00470	≤0.125
	3DH3	4.10	0.00257	6.80	0.00479	≤0.125
	3DH5	4.19	0.00262	6.91	0.00491	≤0.125
中頻道	3DH1	4.37	0.00274	7.32	0.00540	≤0.125
	3DH3	4.45	0.00279	7.40	0.00550	≤0.125
	3DH5	4.62	0.00290	7.57	0.00571	≤0.125
高頻道	3DH1	3.72	0.00236	6.64	0.00461	≤0.125
	3DH3	3.78	0.00239	6.69	0.00467	≤0.125
	3DH5	3.80	0.00240	6.74	0.00472	≤0.125

操作模式 : Mode 5: LE, GFSK Continuous TX Mode					
頻道	輸出功率(Average)		輸出功率(Peak)		限制值
	dBm	W	dBm	W	W
低頻道	4.09	0.00256	4.45	0.00279	≤ 1
中頻道	4.45	0.00279	4.81	0.00303	≤ 1
高頻道	3.69	0.00234	4.01	0.00252	≤ 1

操作模式 : Mode 6: 2LE, GFSK Continuous TX Mode					
頻道	輸出功率(Average)		輸出功率(Peak)		限制值
	dBm	W	dBm	W	W
低頻道	4.11	0.00258	4.41	0.00276	≤ 1
中頻道	4.46	0.00279	4.74	0.00298	≤ 1
高頻道	3.71	0.00235	4.02	0.00252	≤ 1

4.2 電源線傳導干擾之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)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 30 MHz 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 Ω /50 μ H 之電源線阻抗模擬網路 (LISN)。頻率重疊處，以較低限值為準。

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

註：隨頻率之對數遞減。

測試方法：

測試場地為標準傳導測試場地。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 0.15 MHz 至 30 MHz 之間之電源線傳導放射強度。

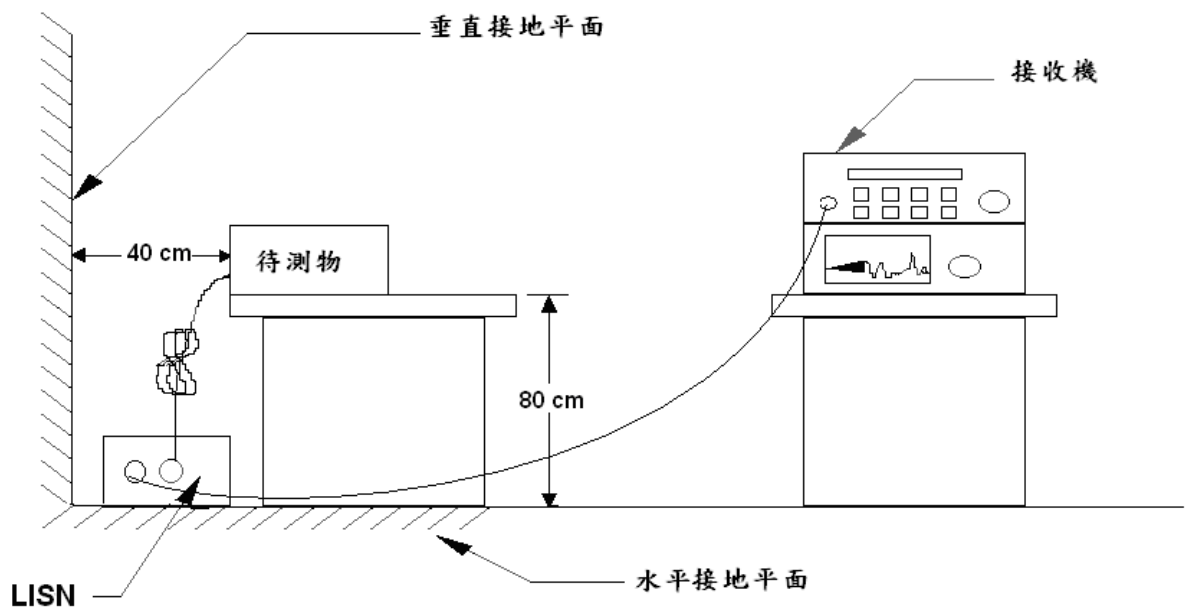
干擾值之計算

電源傳導干擾電壓之計算公式如下

結果值 = 儀器讀值(QP/AV) + 校正因子

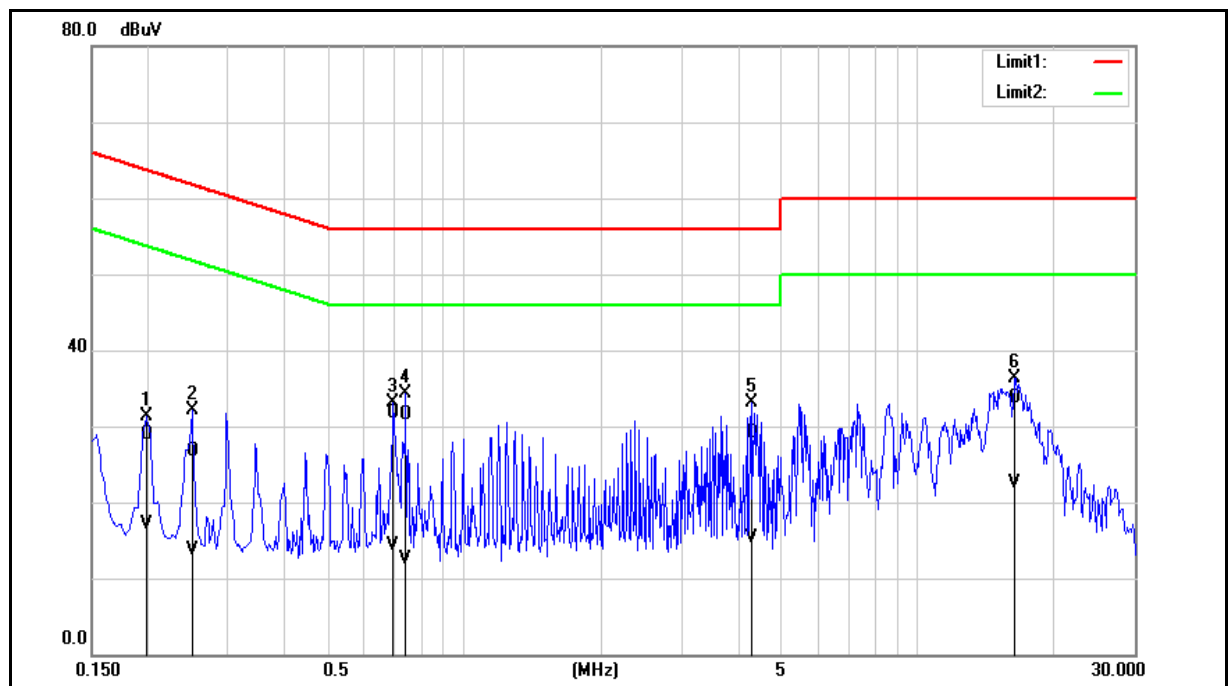
其中校正因子為：饋線損失 + 電源阻抗模擬網路損失

測試架構圖：



測試結果:

Standard:	LP0002	Line:	L1
Test item:	Conducted Emission	Power:	AC 110 V/60 Hz
Test Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			

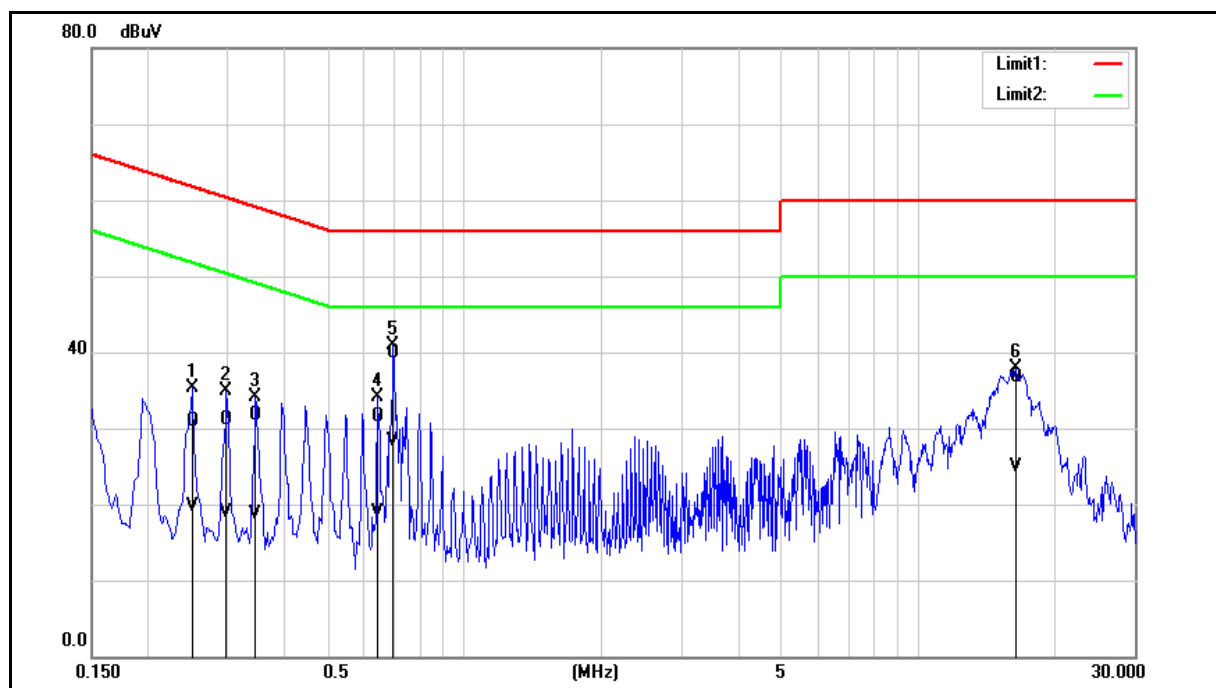


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1980	19.33	7.43	9.64	28.97	17.07	63.69	53.69	-34.72	-36.62	Pass
2	0.2500	17.00	4.03	9.64	26.64	13.67	61.76	51.76	-35.12	-38.09	Pass
3	0.6940	22.11	4.71	9.66	31.77	14.37	56.00	46.00	-24.23	-31.63	Pass
4	0.7420	21.80	2.86	9.67	31.47	12.53	56.00	46.00	-24.53	-33.47	Pass
5	4.3100	19.24	5.48	9.78	29.02	15.26	56.00	46.00	-26.98	-30.74	Pass
6	16.3500	23.74	12.54	9.99	33.73	22.53	60.00	50.00	-26.27	-27.47	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

2. 校正係數(dB) = 量測信號線損失(dB) + 電源阻抗模擬網路係數(dB)。

Standard:	LP0002	Line:	N
Test item:	Conducted Emission	Power:	AC 110 V/60 Hz
Test Mode:	Mode 1	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2500	21.18	10.04	9.67	30.85	19.71	61.76	51.76	-30.91	-32.05	Pass
2	0.2980	21.37	9.31	9.68	31.05	18.99	60.30	50.30	-29.25	-31.31	Pass
3	0.3460	21.98	9.11	9.68	31.66	18.79	59.06	49.06	-27.40	-30.27	Pass
4	0.6420	21.82	9.29	9.69	31.51	18.98	56.00	46.00	-24.49	-27.02	Pass
5	0.6940	30.13	18.59	9.69	39.82	28.28	56.00	46.00	-16.18	-17.72	Pass
6	16.4500	26.64	14.86	10.12	36.76	24.98	60.00	50.00	-23.24	-25.02	Pass

註：1. 干擾值(dBuV) = 校正係數(dB) + 讀值(dBuV)。

2. 校正係數(dB) = 量測信號線損失(dB) + 電源阻抗模擬網路係數(dB)。

4.3 場強輻射之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之使用頻帶範圍外之任意 100 千赫 (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 千赫(kHz)內的射頻功率，至少須衰減 20 dB，以射頻傳導或輻射方式測量。如發射機以依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.5(2)之峰值傳導輸出功率量測方式者，至少須衰減 30 dB。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

依據 NCC 低功率射頻電機技術規範第 2.7 節之規定,禁用頻段如下：

頻率(MHz)	頻率(MHz)	頻率(MHz)	頻率(MHz)
0.090~0.110	108.00~138.00	1660.0~1785.0	8025.0~8500.0
0.490~0.510	149.90~150.05	1805.0~1888.0	9000.0~9200.0
2.172~2.198	156.70~156.90	1885.0~1900.0	9300.0~9500.0
3.013~3.033	162.01~167.17	1905.0~1985.0	10600~12700
4.115~4.198	167.72~173.20	2010.0~2025.0	13250~13400
5.670~5.690	240.00~285.00	2110.0~2170.0	14470~14500
6.200~6.300	322.00~335.40	2200.0~2300.0	15350~16200
8.230~8.400	399.90~410.00	2310.0~2390.0	17700~21400
12.265~12.600	485.00~510.00	2483.5~2900.0	22010~23120
13.340~13.430	608.00~614.00	3260.0~3267.0	23600~24000
14.965~15.020	703.00~748.00	3332.0~3339.0	31200~31800
16.700~16.755	758.00~803.00	3345.8~3358.0	36430~36500
19.965~20.020	825.00~915.00	3500.0~4400.0	38600 以上
25.500~25.700	930.00~1240.0	4500.0~5250.0	
37.475~38.275	1300.0~1427.0	5350.0~5460.0	
73.500~75.400	1435.0~1626.5	7250.0~7750.0	

依據 NCC 低功率射頻電機技術規範第 2.8 節之規定,除本規範各章節另有放寬規定者外，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)	電場強度(μ V/m)	測距(m)
0.009 - 0.490(含)	2,400/頻率(千赫)	300
0.490 (不含) – 1.705 (含)	24,000/頻率(千赫)	30
1.705(不含) – 30 (不含)	30	30
30 (含) – 88 (含)	100	3
88 (不含)- 216 (含)	150	3
216 (不含)- 960 (含)	200	3
960 (不含)以上	500	3

測試方法：

測試場地為開放測試場,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。

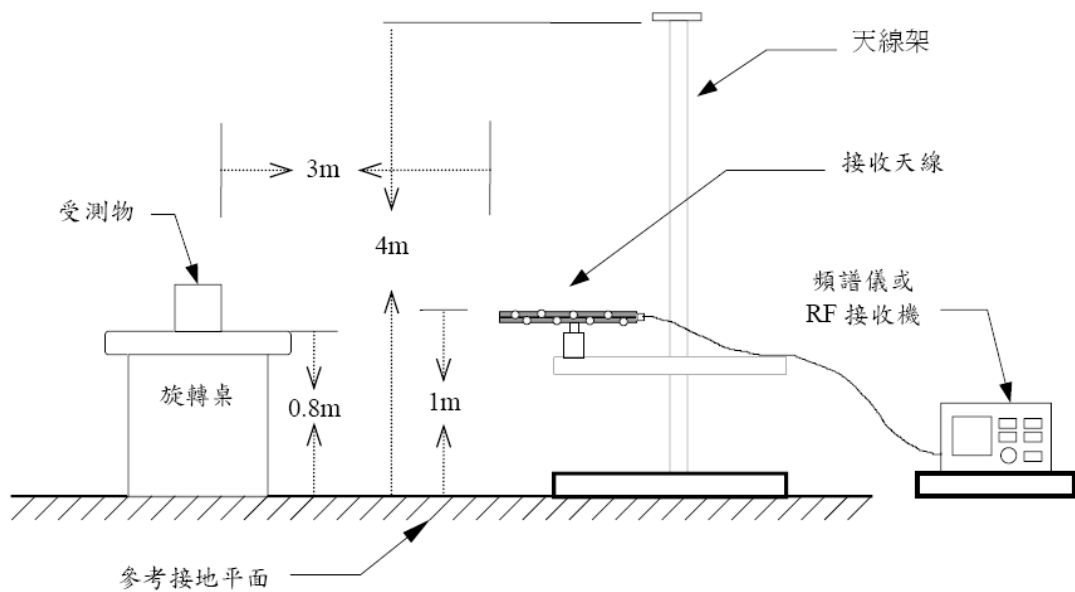
場強度之計算

場強之計算公式為：結果值 = 讀值 + 校正因子

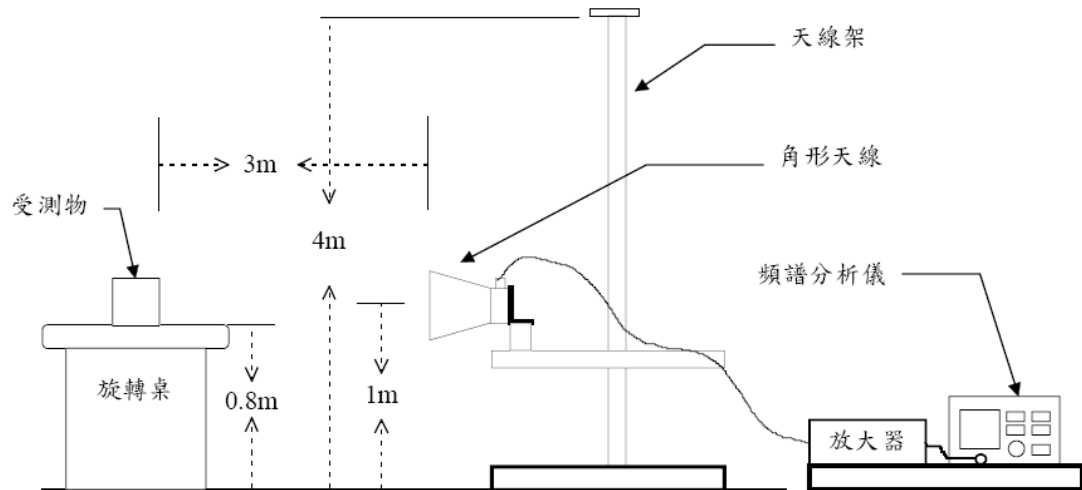
其中校正因子為：天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）

測試架構圖：

量測頻率低於 1 GHz 以下之測試配置



量測頻率高於 1 GHz 以上之測試配置



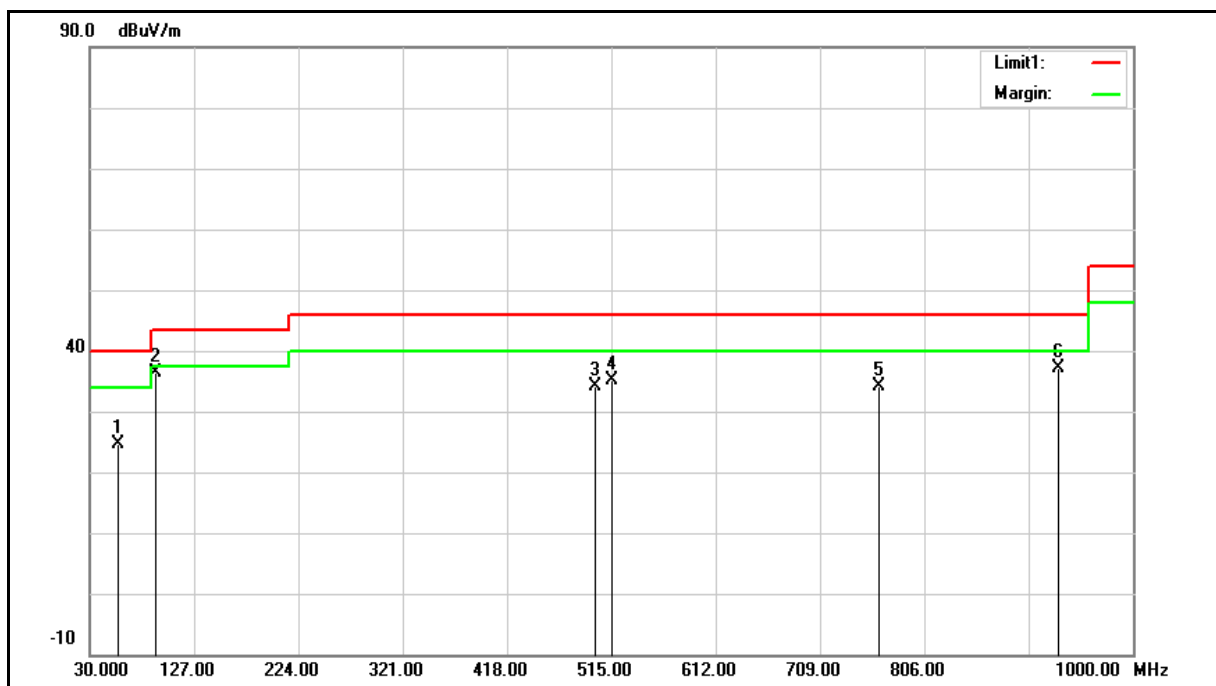
測試結果:

本產品透過預測試確認 X、Y 和 Z 個軸中最差之結果軸向為 X 軸，因此場強輻射完整測試 X 軸並將其結果記錄於報告中。

場強輻射之量測依據輸出峰值功率之量測結果取其最大值之操作模式為場強輻射測試模式。

其它不必要之訊號 (1 GHz 以下)

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Test Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	56.1900	31.36	-6.79	24.57	40.00	-15.43	QP
2	91.1100	48.48	-12.18	36.30	43.50	-7.20	QP
3	499.4800	34.44	-0.34	34.10	46.00	-11.90	QP
4	515.9700	35.16	-0.06	35.10	46.00	-10.90	QP
5	763.3200	28.93	5.19	34.12	46.00	-11.88	QP
6	931.1300	28.83	8.18	37.01	46.00	-8.99	QP

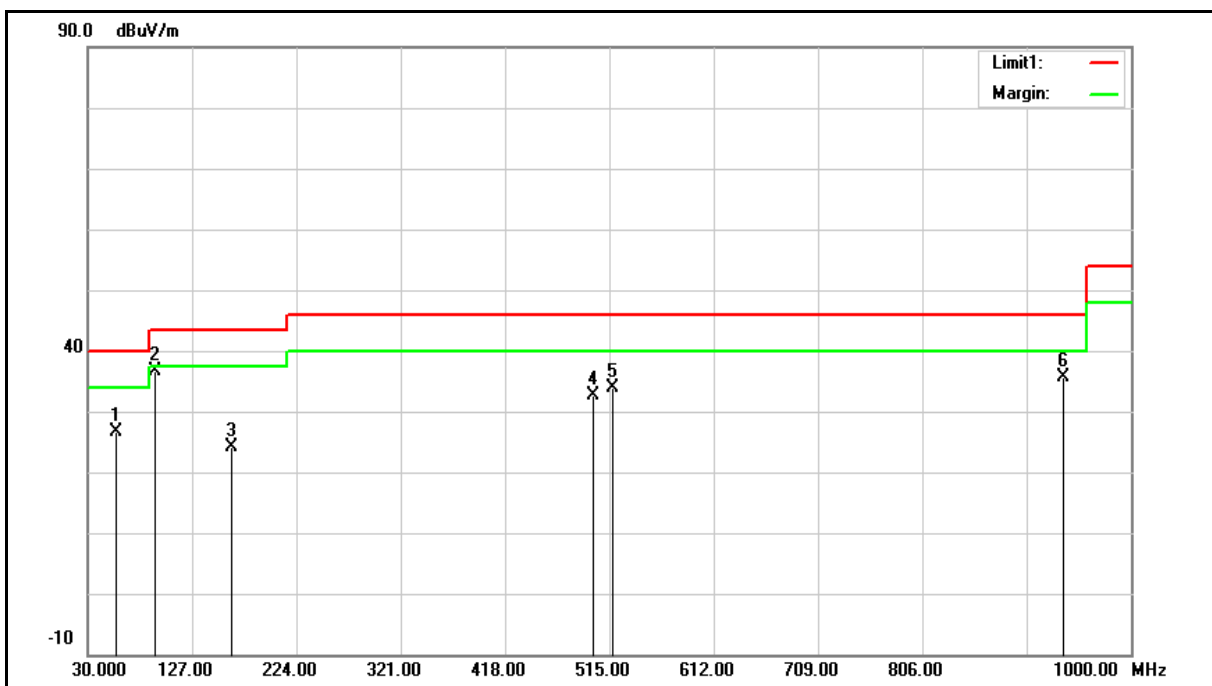
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 24.57 = -6.79 + 31.36

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60 %RH
Test Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	56.1900	33.51	-6.79	26.72	40.00	-13.28	QP
2	93.2100	48.46	-11.92	36.54	43.50	-6.96	QP
3	163.7700	30.11	-5.87	24.24	43.50	-19.26	QP
4	500.4500	32.90	-0.32	32.58	46.00	-13.42	QP
5	517.9100	33.95	-0.02	33.93	46.00	-12.07	QP
6	936.9500	27.29	8.29	35.58	46.00	-10.42	QP

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

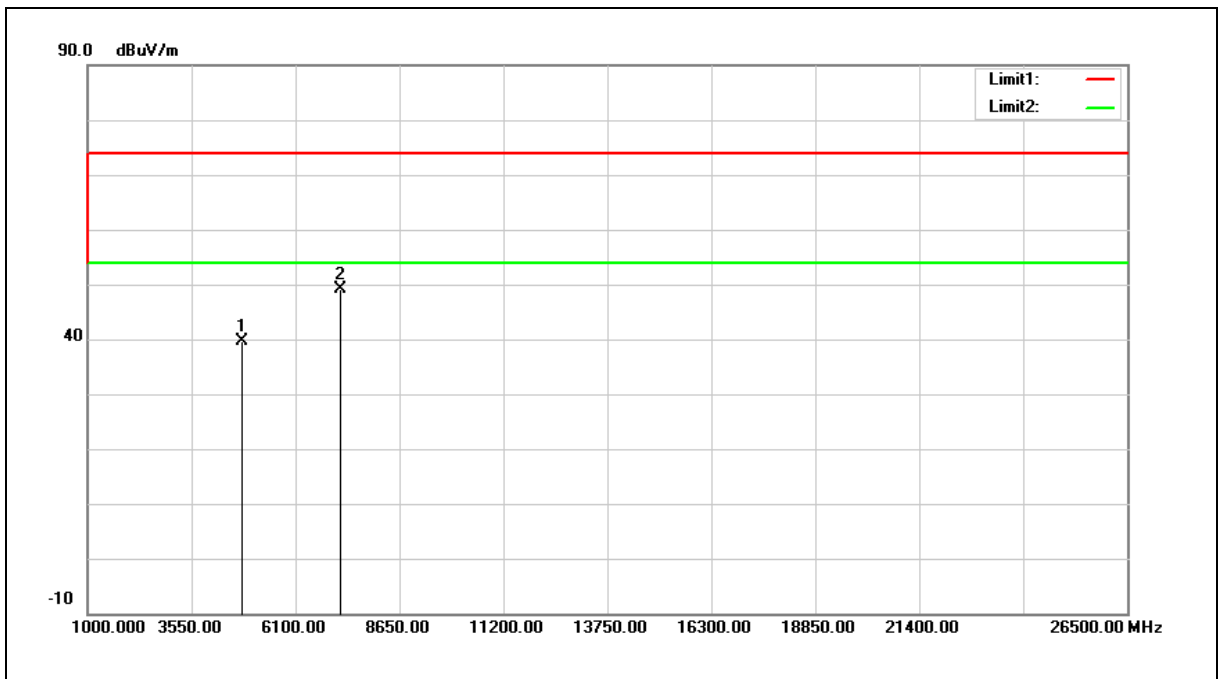
Example: $26.72 = -6.79 + 33.51$

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

場強輻射量側 (1 GHz 以上)

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	35.46	4.28	39.74	74.00	-34.26	peak
2	7206.000	38.87	10.19	49.06	74.00	-24.94	peak

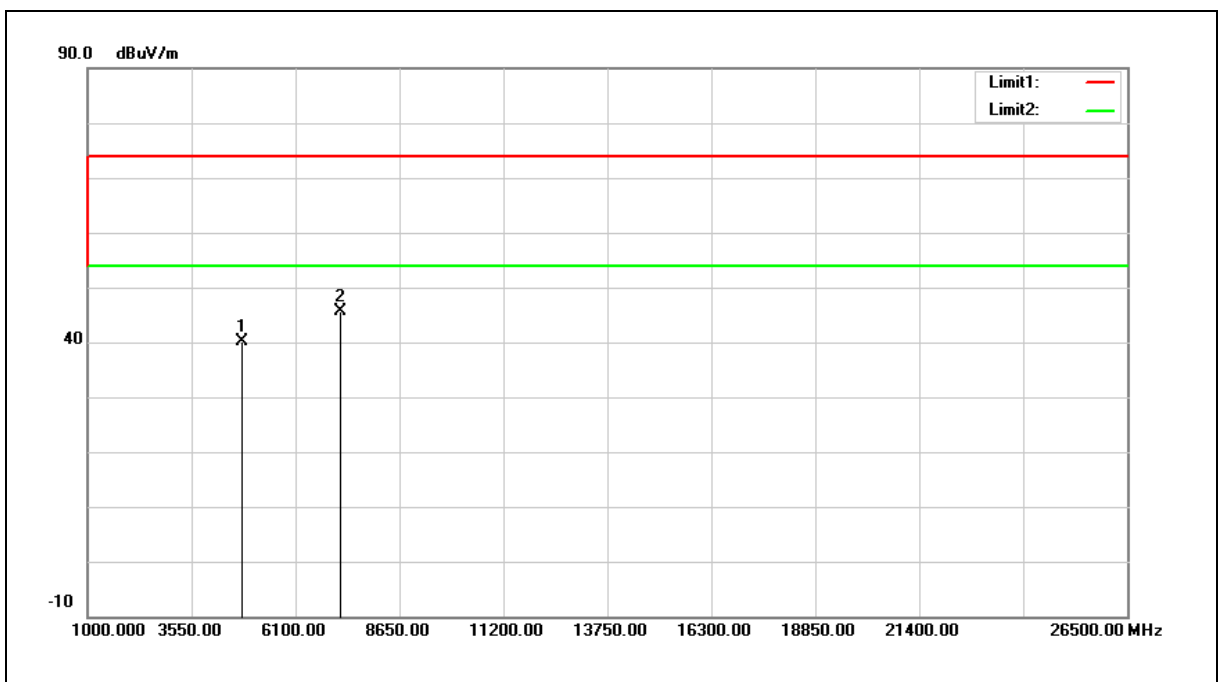
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $39.74 = 4.28 + 35.46$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	35.77	4.28	40.05	74.00	-33.95	peak
2	7206.000	35.35	10.19	45.54	74.00	-28.46	peak

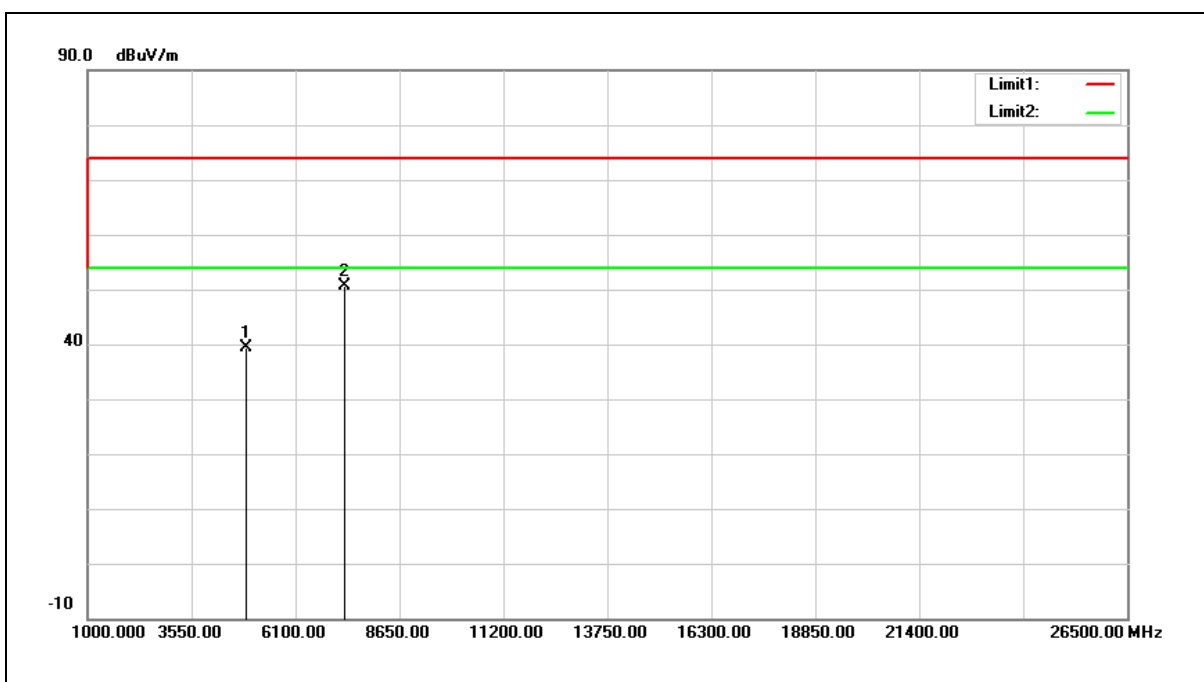
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $40.05 = 4.28 + 35.77$

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2441 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



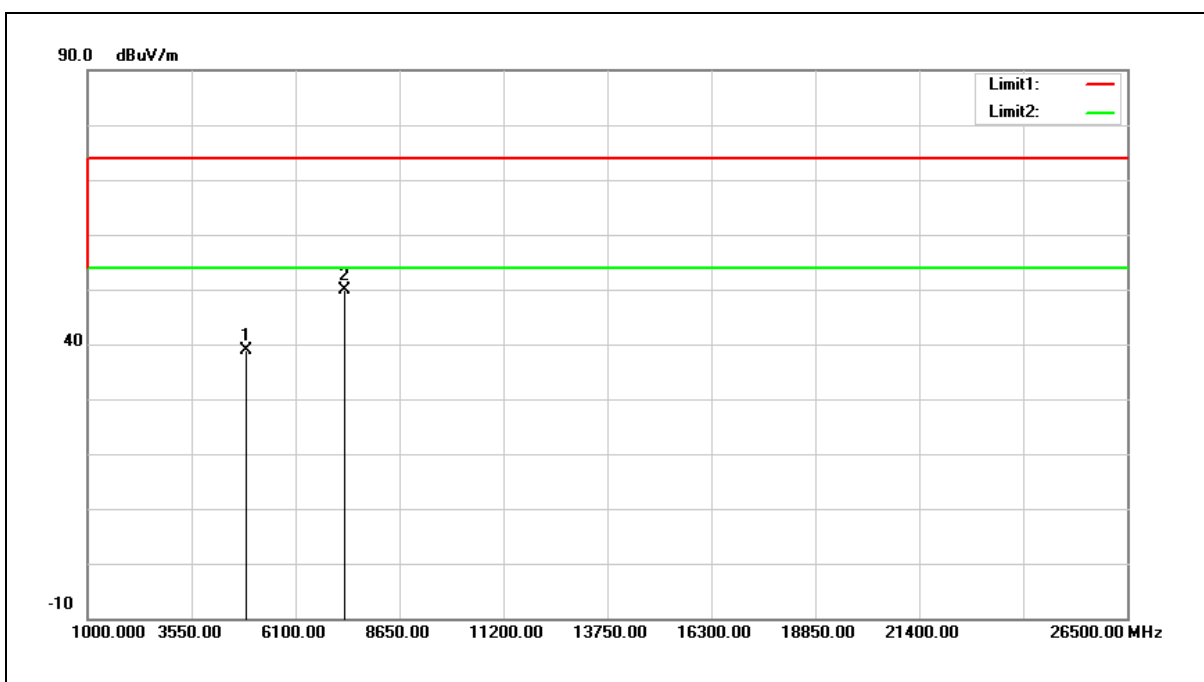
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	35.04	4.44	39.48	74.00	-34.52	peak
2	7323.000	40.12	10.42	50.54	74.00	-23.46	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2441 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



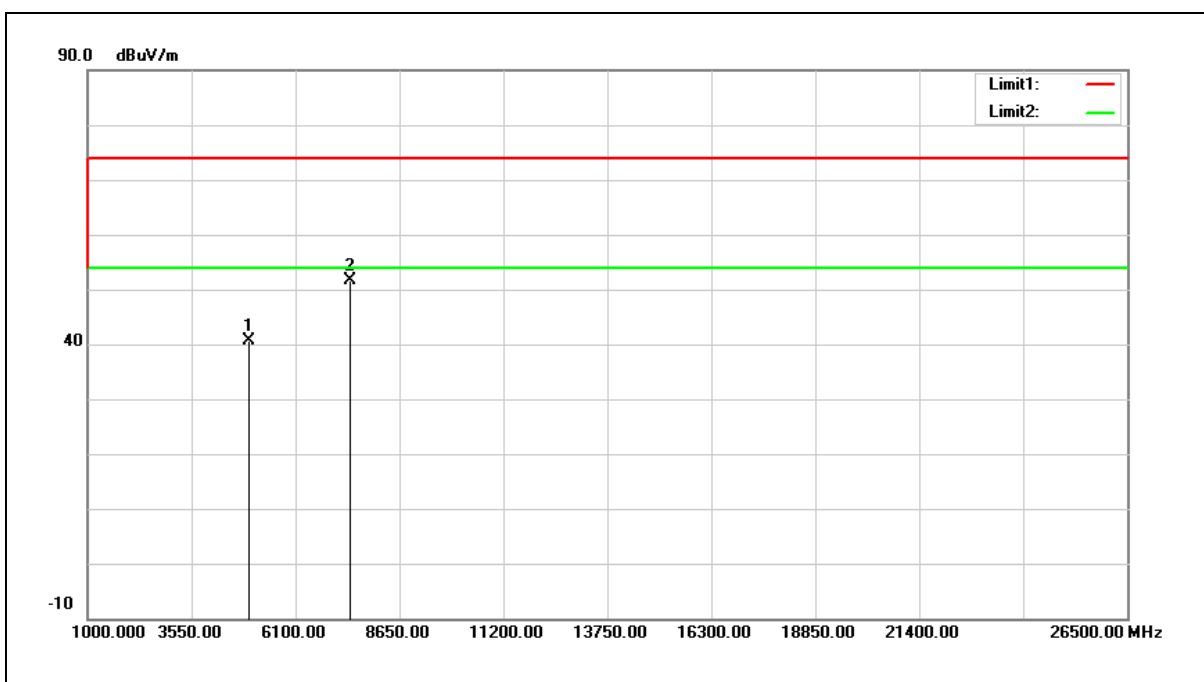
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	34.56	4.44	39.00	74.00	-35.00	peak
2	7323.000	39.38	10.42	49.80	74.00	-24.20	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



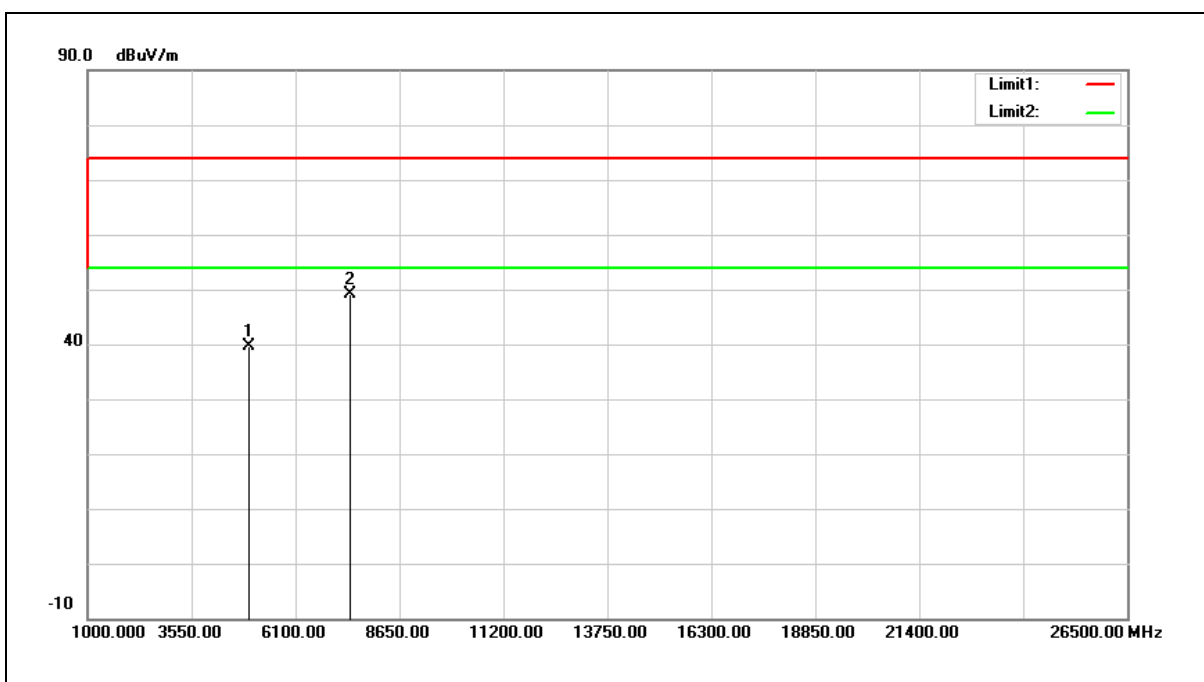
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	36.04	4.60	40.64	74.00	-33.36	peak
2	7440.000	40.96	10.65	51.61	74.00	-22.39	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



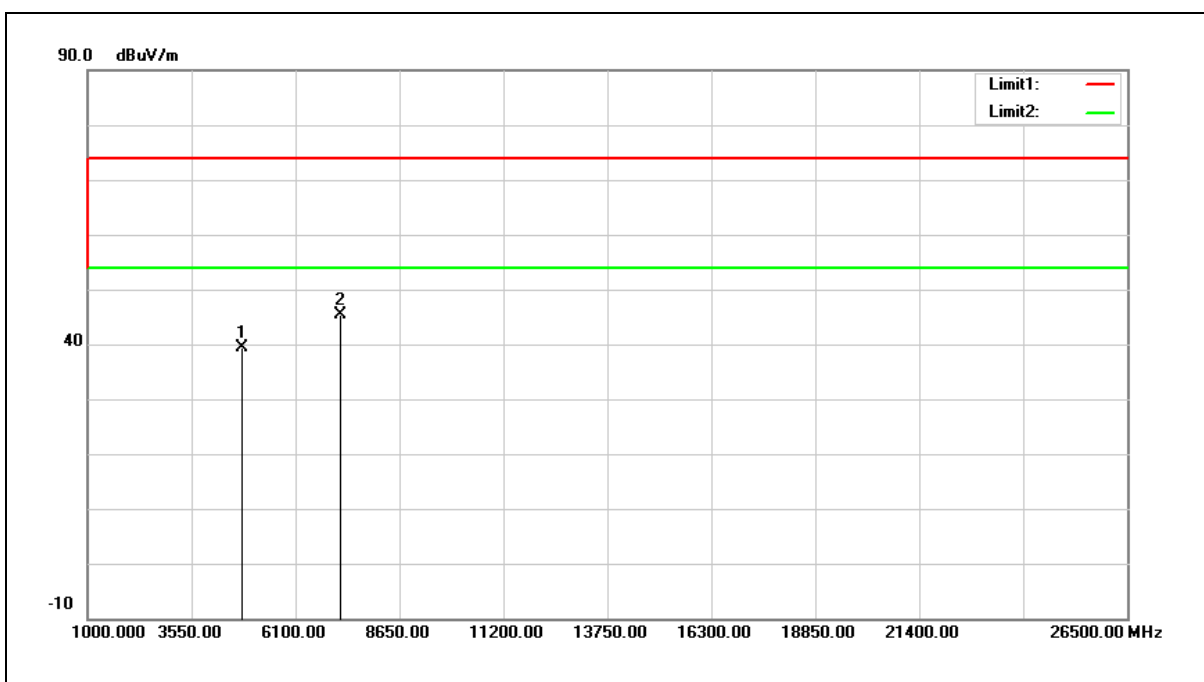
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	34.98	4.60	39.58	74.00	-34.42	peak
2	7440.000	38.57	10.65	49.22	74.00	-24.78	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



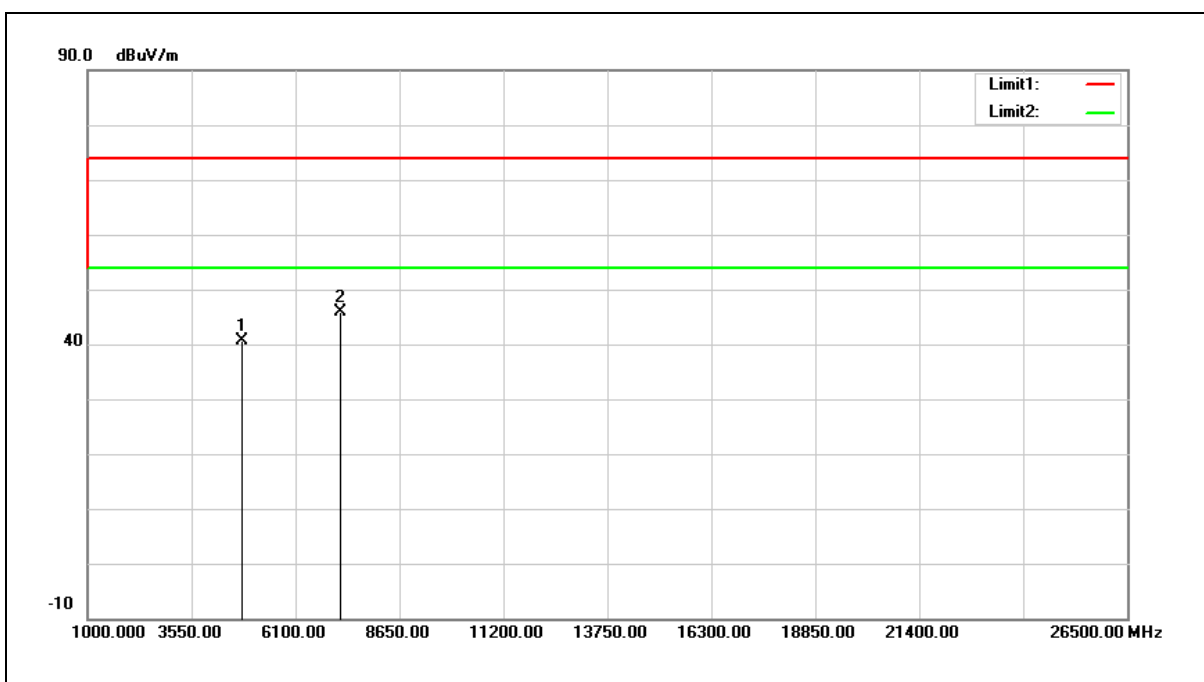
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	35.17	4.28	39.45	74.00	-34.55	peak
2	7206.000	35.22	10.19	45.41	74.00	-28.59	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



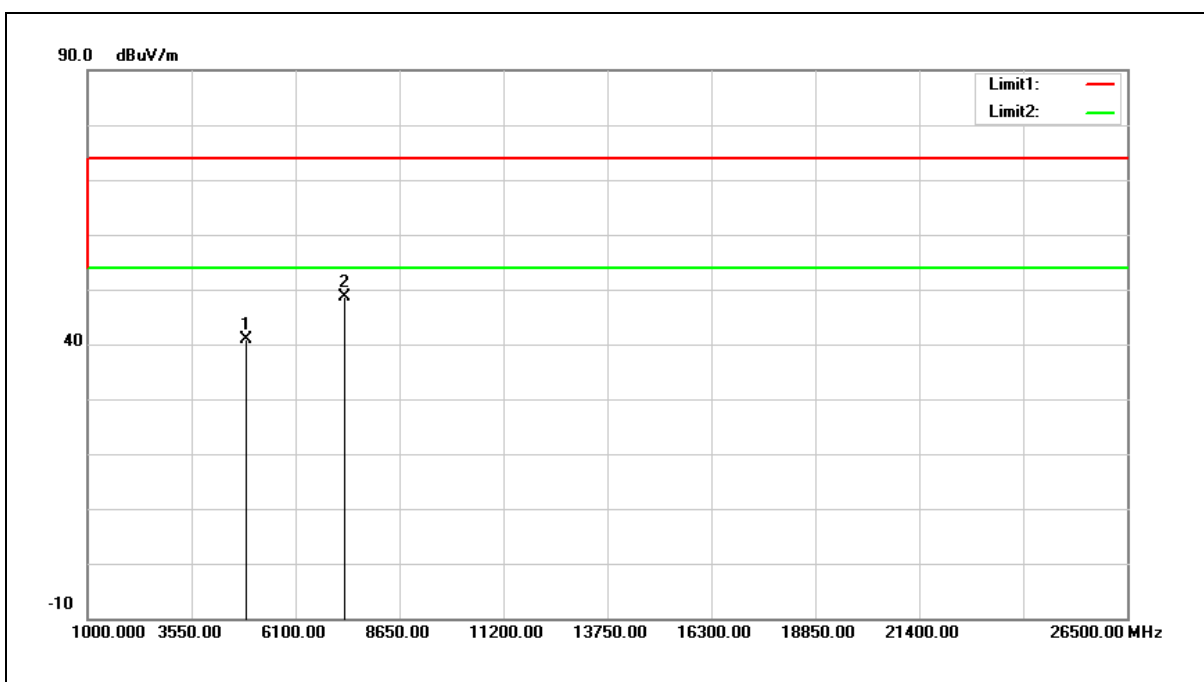
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	36.35	4.28	40.63	74.00	-33.37	peak
2	7206.000	35.78	10.19	45.97	74.00	-28.03	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2441 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



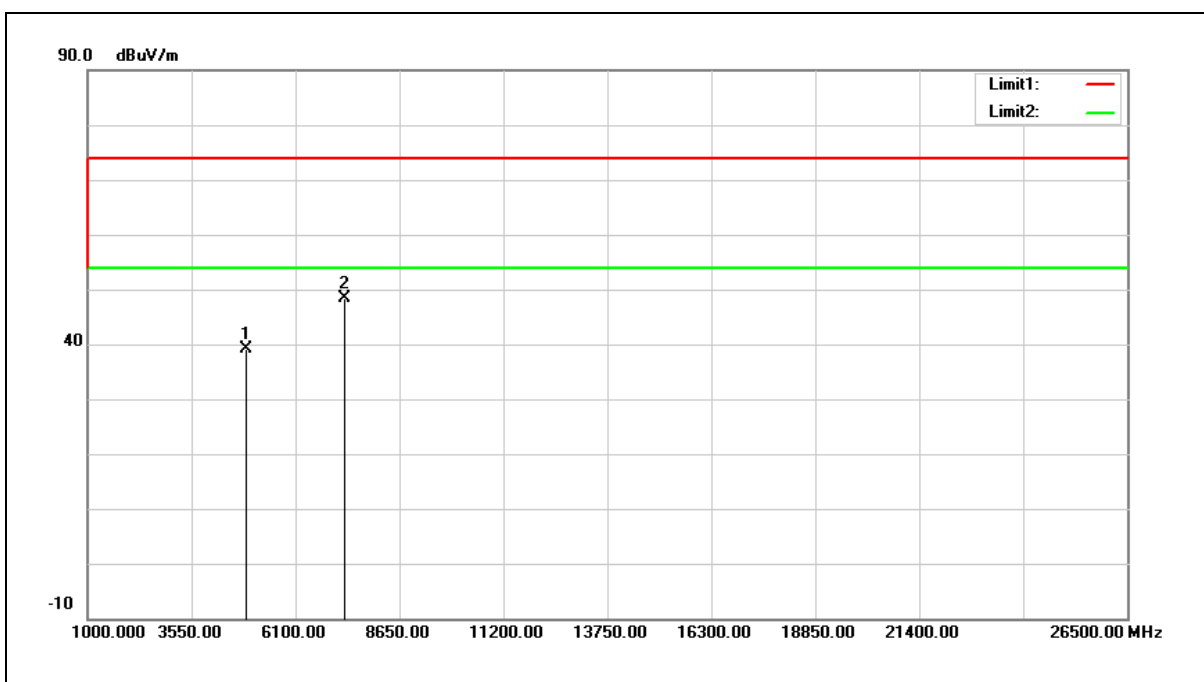
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	36.42	4.44	40.86	74.00	-33.14	peak
2	7323.000	38.12	10.42	48.54	74.00	-25.46	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2441 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



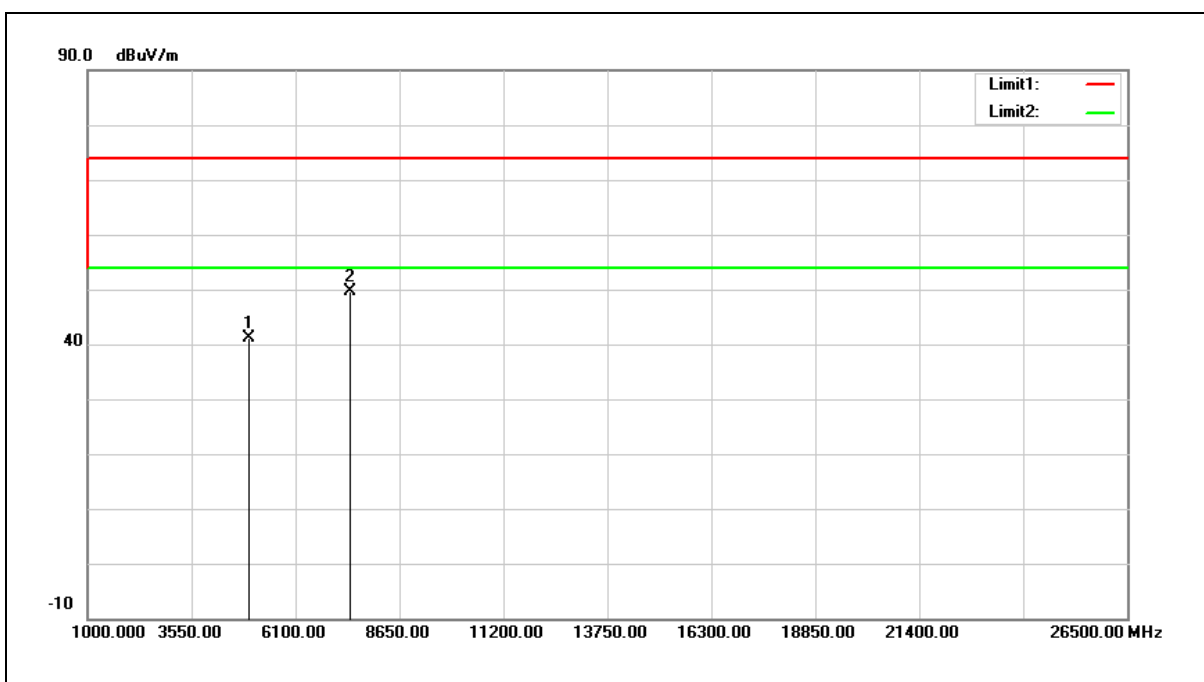
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882.000	34.65	4.44	39.09	74.00	-34.91	peak
2	7323.000	37.90	10.42	48.32	74.00	-25.68	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



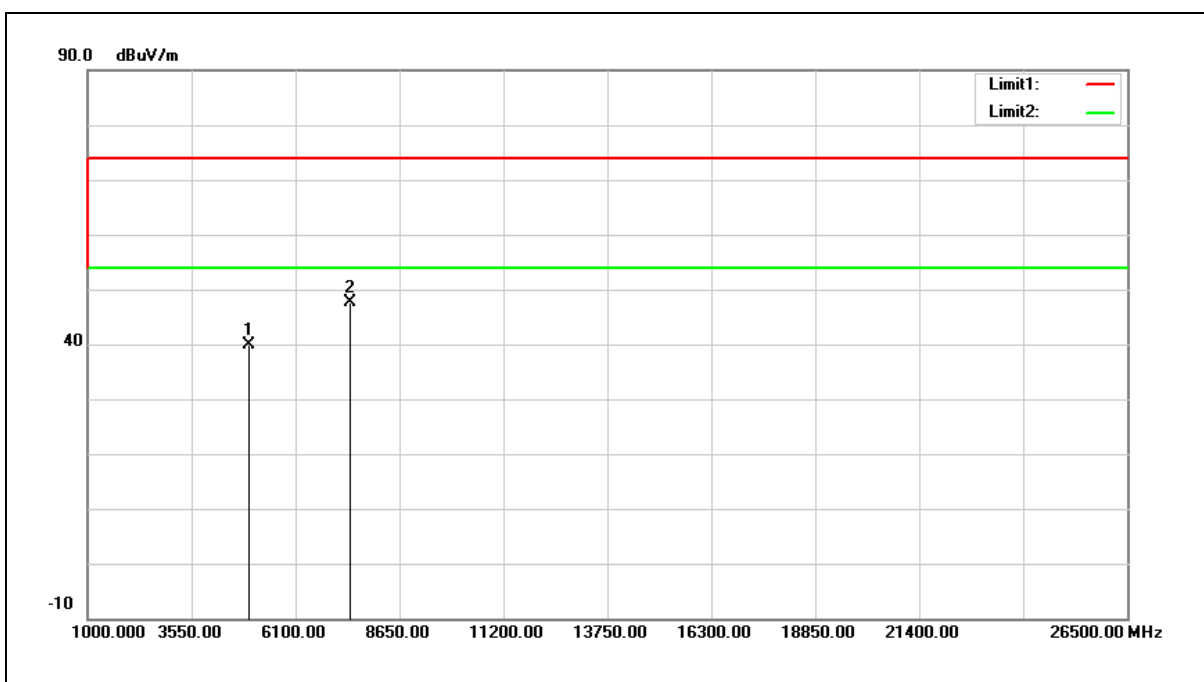
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	36.50	4.60	41.10	74.00	-32.90	peak
2	7440.000	38.87	10.65	49.52	74.00	-24.48	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



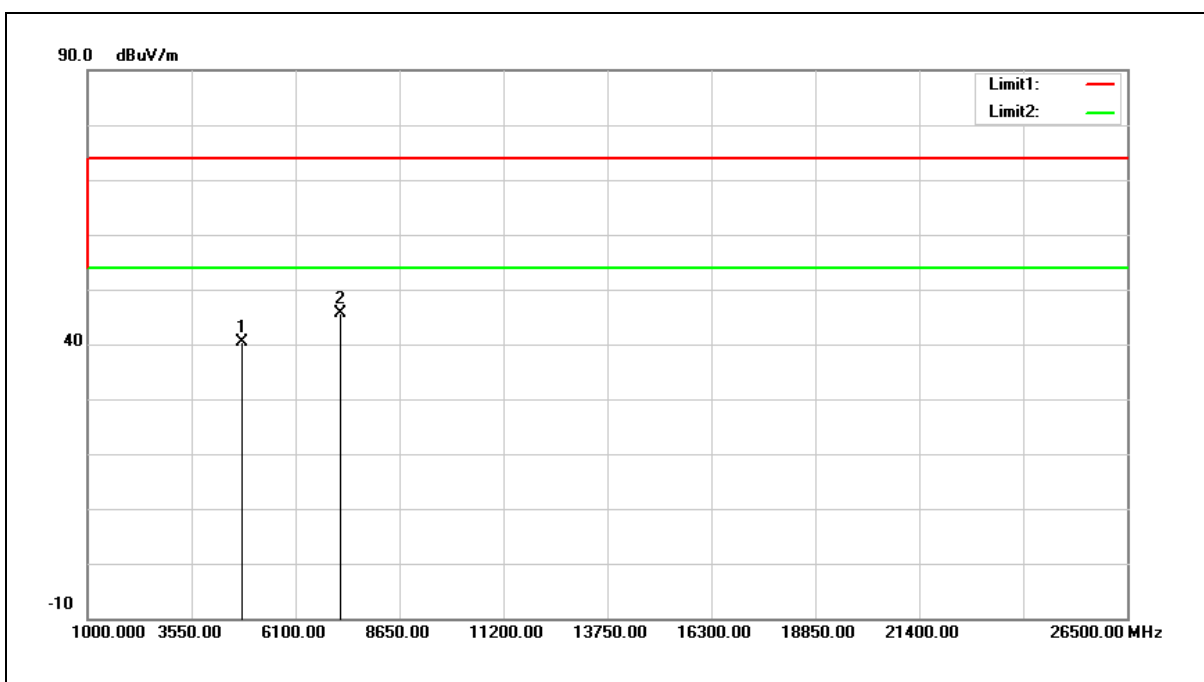
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	35.20	4.60	39.80	74.00	-34.20	peak
2	7440.000	36.92	10.65	47.57	74.00	-26.43	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



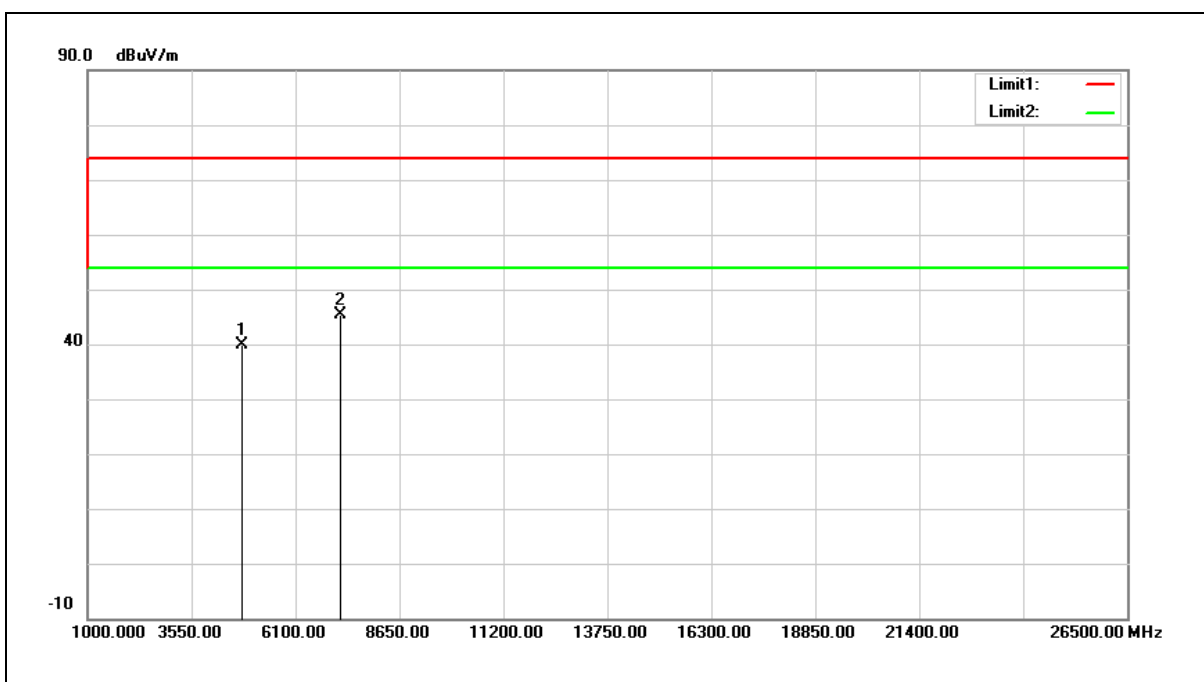
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	36.17	4.28	40.45	74.00	-33.55	peak
2	7206.000	35.54	10.19	45.73	74.00	-28.27	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



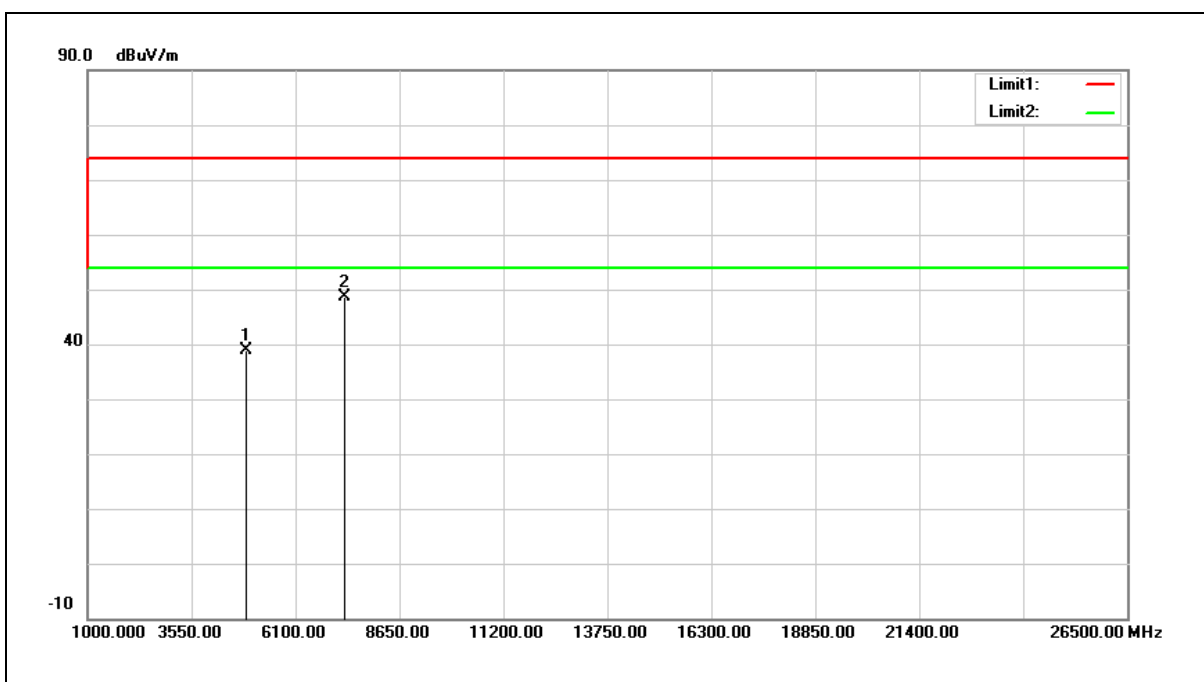
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	35.67	4.28	39.95	74.00	-34.05	peak
2	7206.000	35.28	10.19	45.47	74.00	-28.53	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2440 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



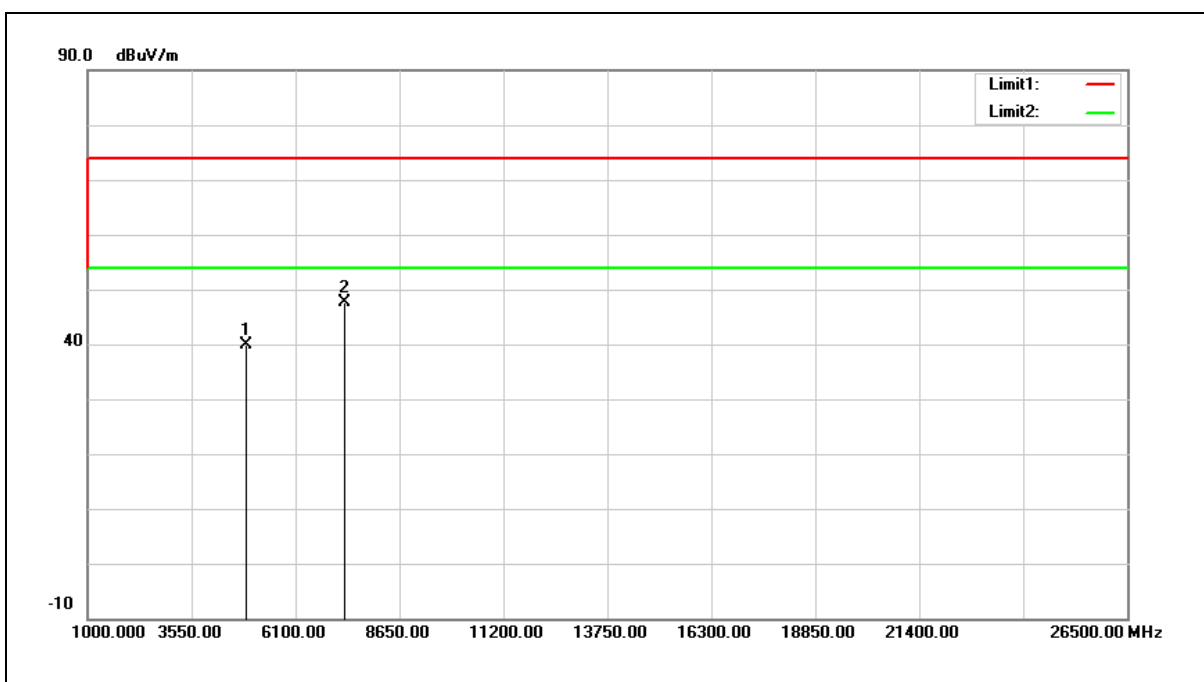
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	34.53	4.44	38.97	74.00	-35.03	peak
2	7320.000	38.27	10.41	48.68	74.00	-25.32	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2440 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



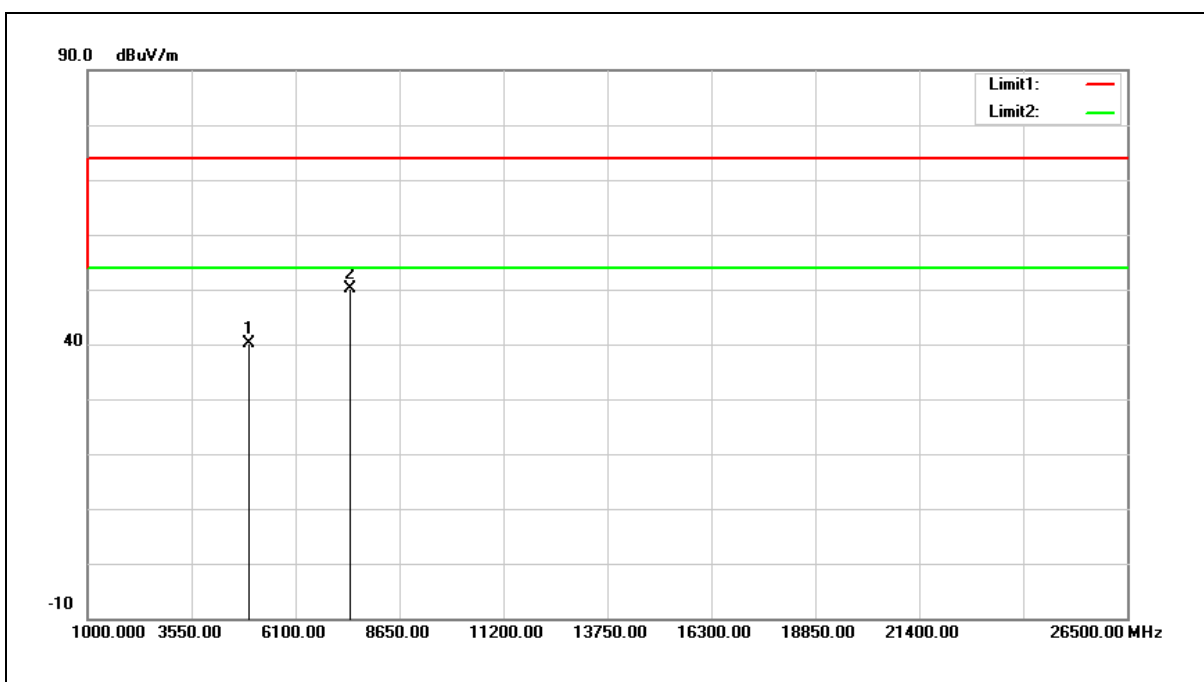
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	35.51	4.44	39.95	74.00	-34.05	peak
2	7320.000	37.24	10.41	47.65	74.00	-26.35	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



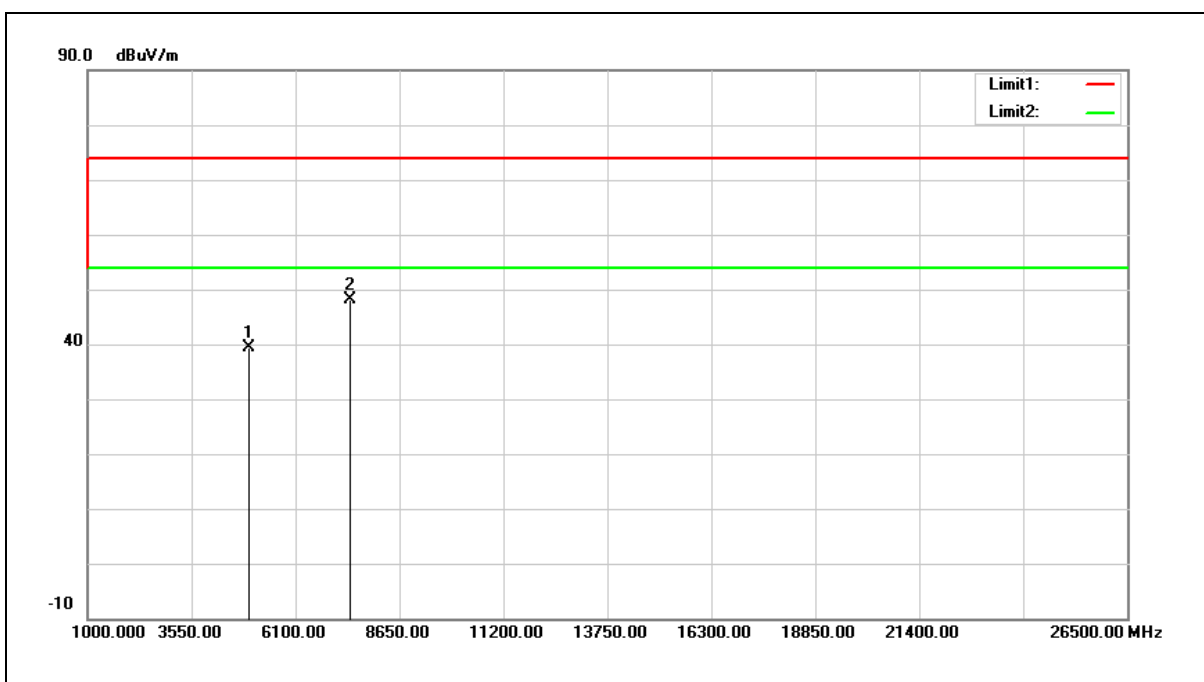
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	35.43	4.60	40.03	74.00	-33.97	peak
2	7440.000	39.53	10.65	50.18	74.00	-23.82	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



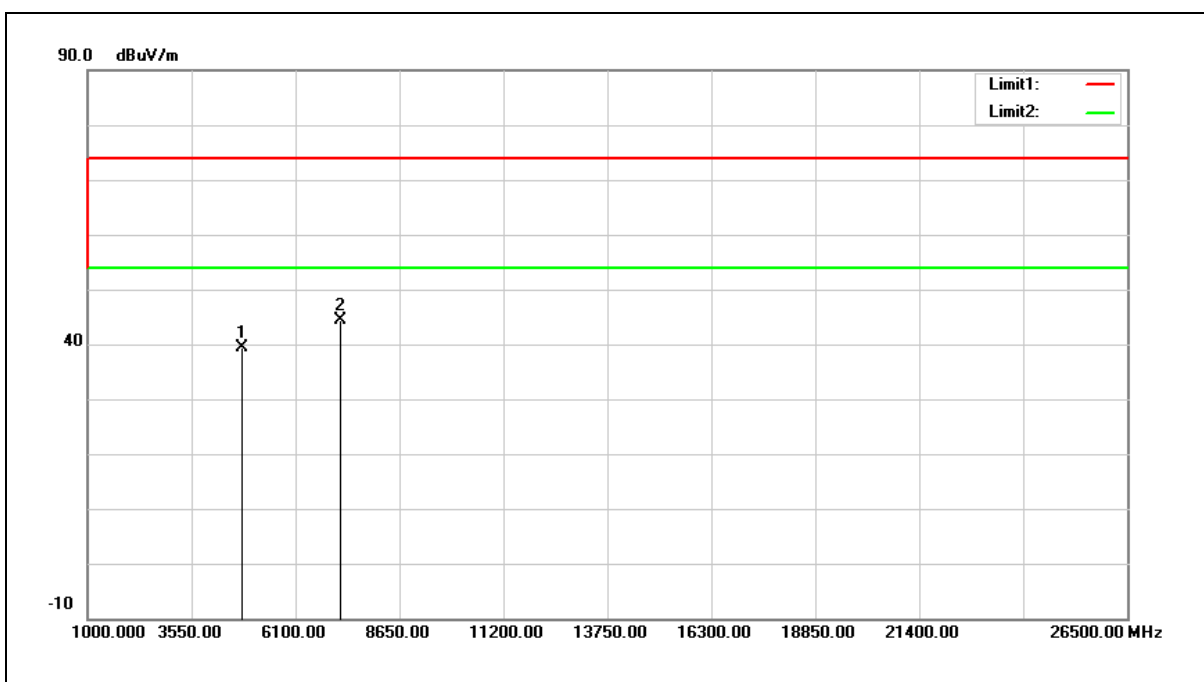
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	34.75	4.60	39.35	74.00	-34.65	peak
2	7440.000	37.39	10.65	48.04	74.00	-25.96	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



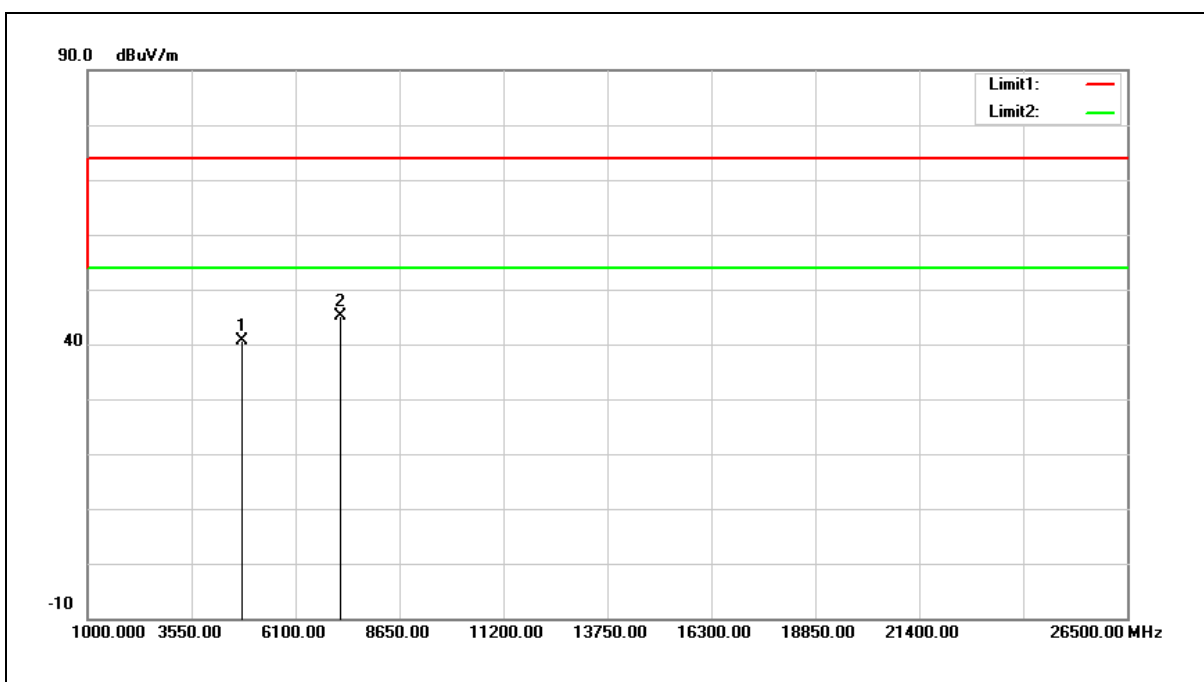
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	35.08	4.28	39.36	74.00	-34.64	peak
2	7206.000	34.14	10.19	44.33	74.00	-29.67	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



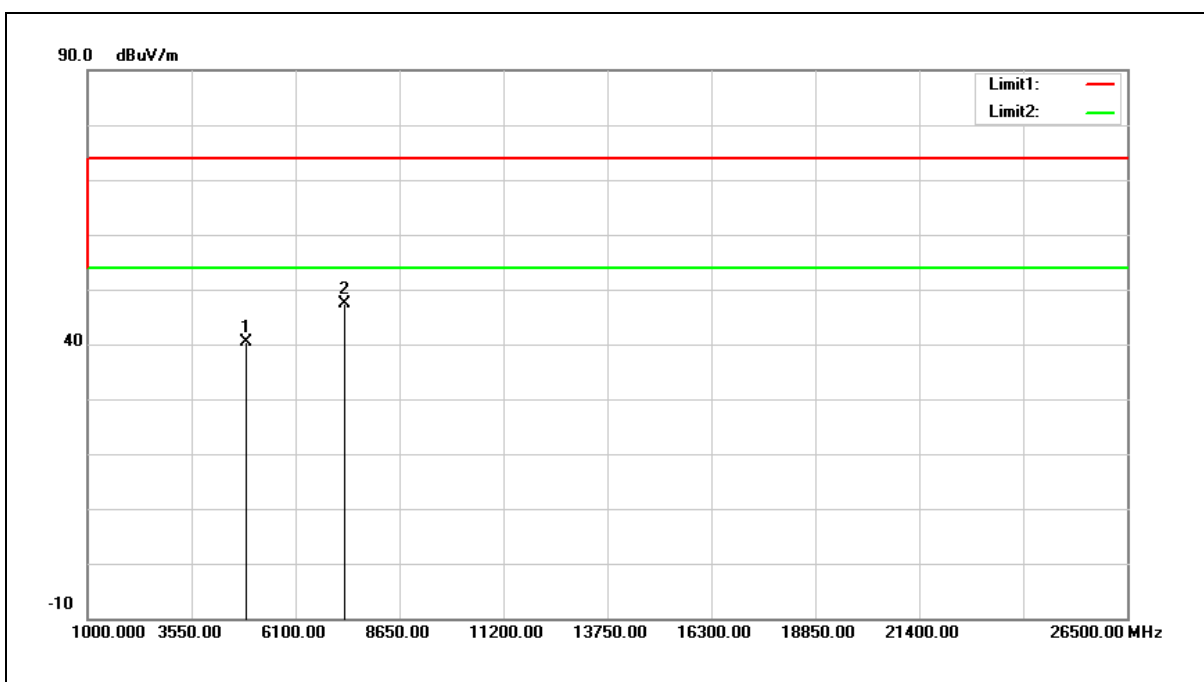
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804.000	36.35	4.28	40.63	74.00	-33.37	peak
2	7206.000	34.88	10.19	45.07	74.00	-28.93	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2440 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



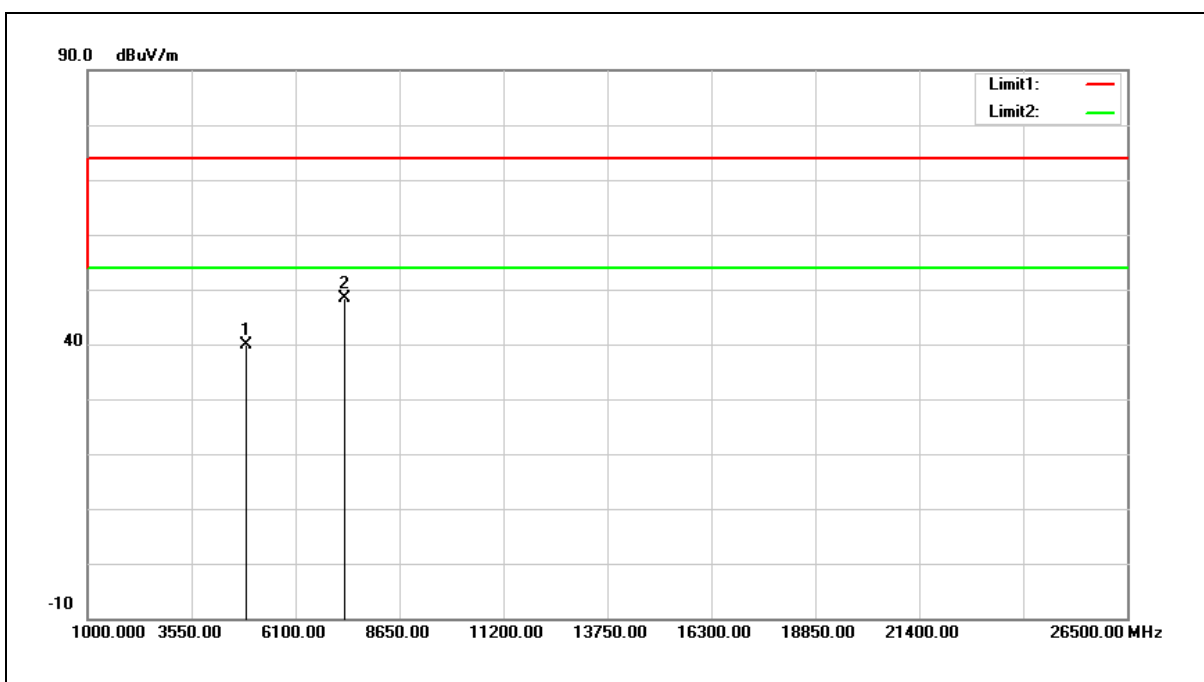
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	35.92	4.44	40.36	74.00	-33.64	peak
2	7320.000	36.97	10.41	47.38	74.00	-26.62	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2440 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



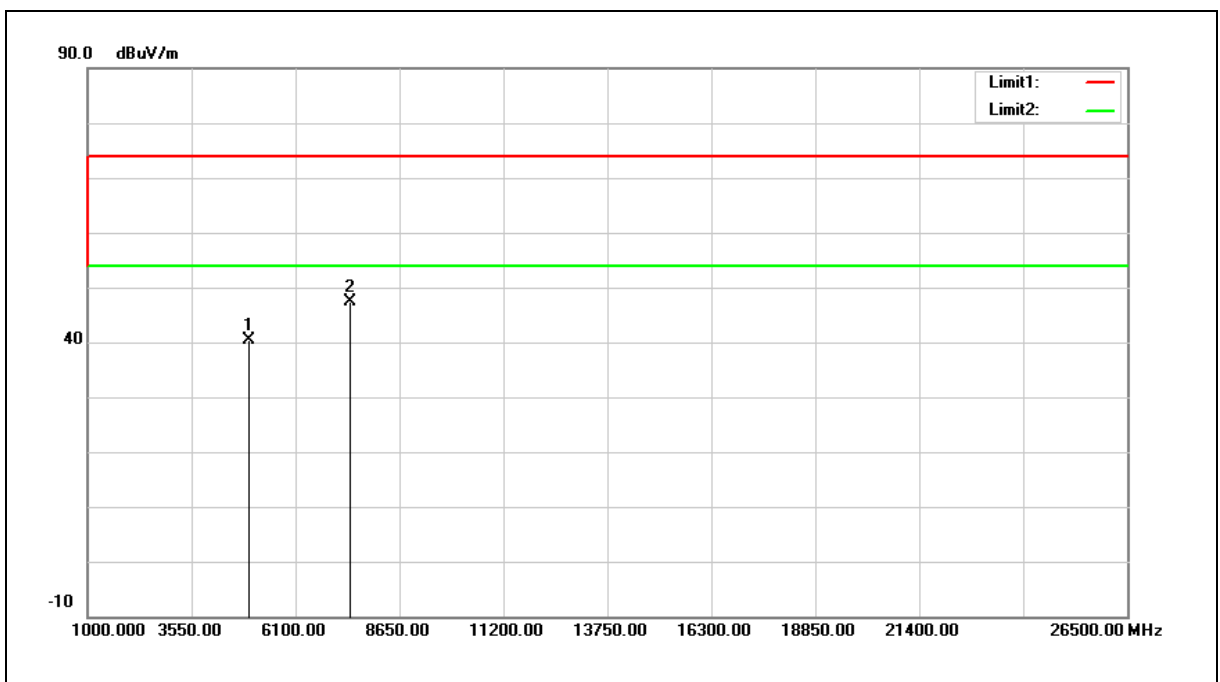
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4880.000	35.37	4.44	39.81	74.00	-34.19	peak
2	7320.000	37.97	10.41	48.38	74.00	-25.62	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



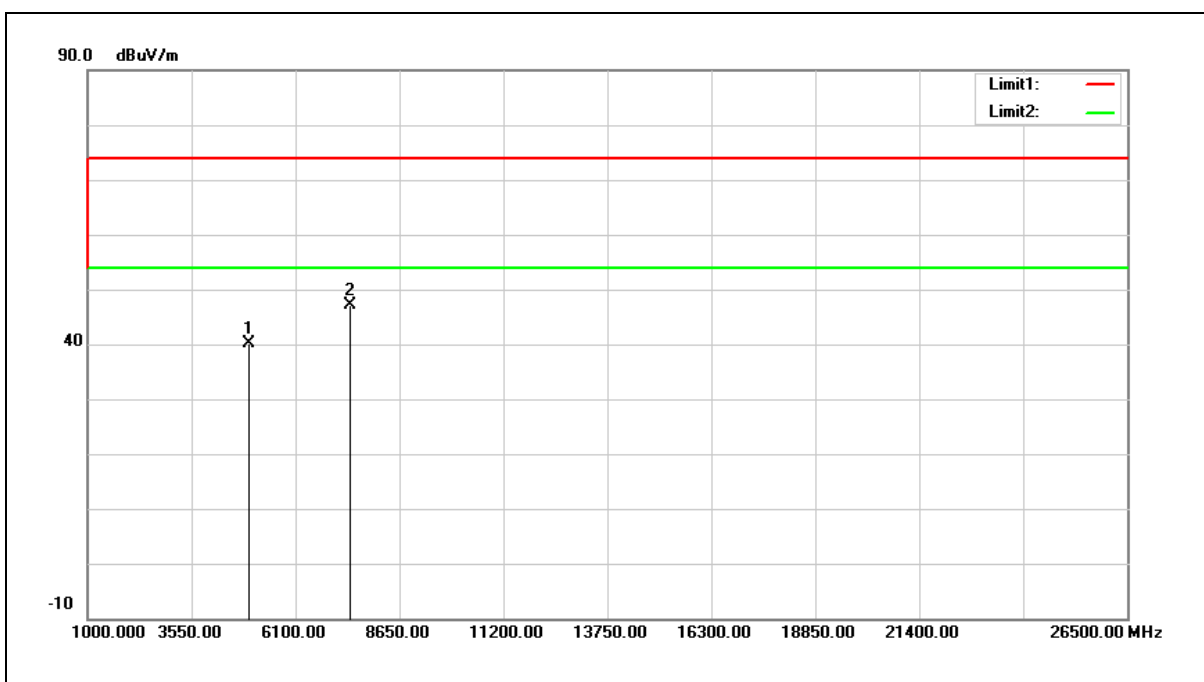
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	35.77	4.60	40.37	74.00	-33.63	peak
2	7440.000	36.80	10.65	47.45	74.00	-26.55	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



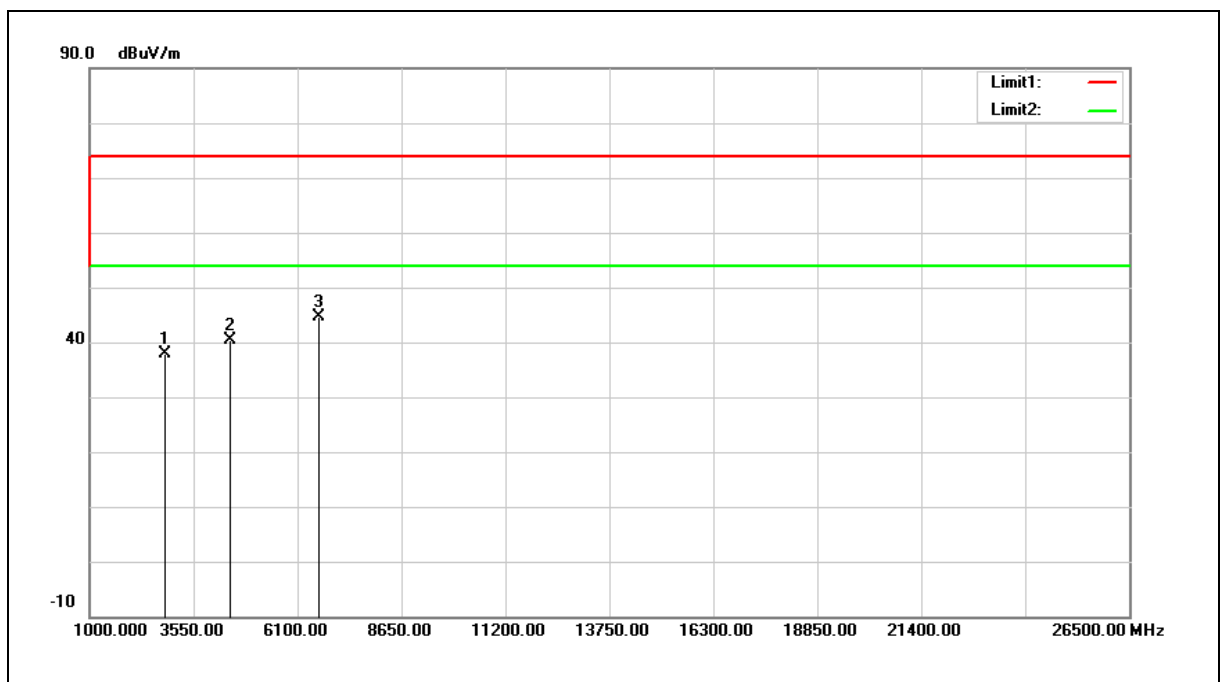
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960.000	35.44	4.60	40.04	74.00	-33.96	peak
2	7440.000	36.52	10.65	47.17	74.00	-26.83	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Mode:	Mode 7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Ant.Polar.:	Horizontal		
Description:			



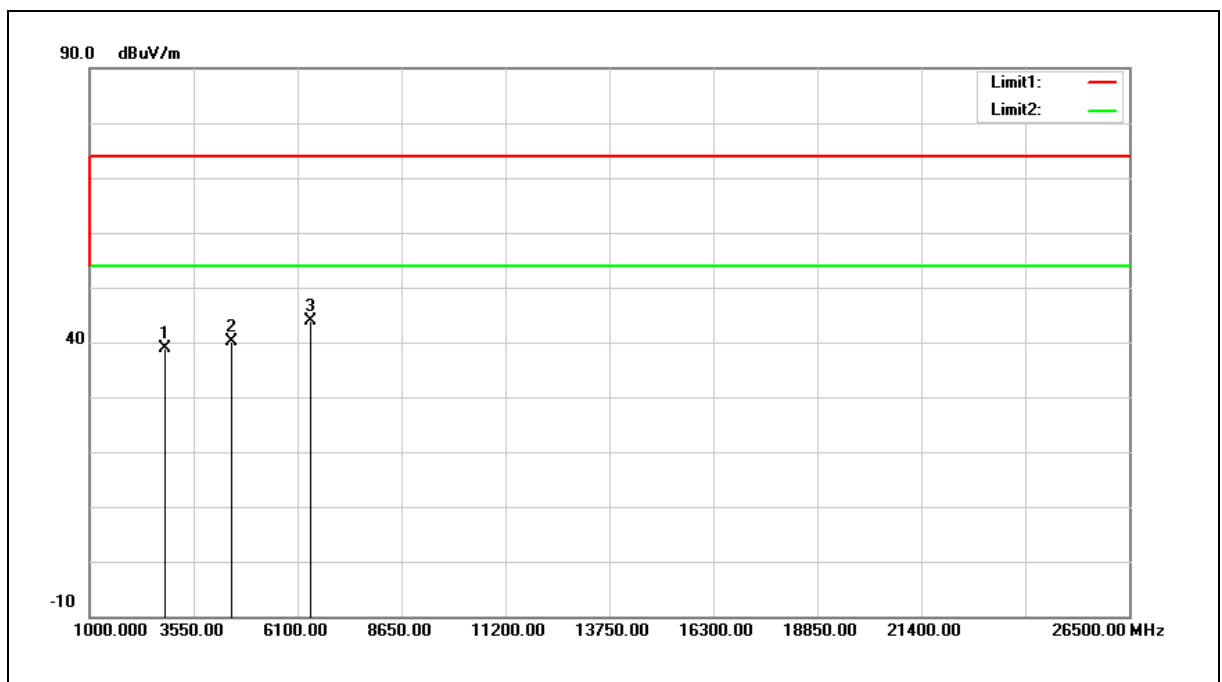
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	39.03	-1.10	37.93	74.00	-36.07	peak
2	4434.000	36.80	3.48	40.28	74.00	-33.72	peak
3	6627.000	35.55	8.97	44.52	74.00	-29.48	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Harmonic	Power:	DC 3.8 V
Mode:	Mode 7	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Ant.Polar.:	Vertical		
Description:			



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2819.000	39.95	-1.10	38.85	74.00	-35.15	peak
2	4485.000	36.61	3.62	40.23	74.00	-33.77	peak
3	6423.000	35.49	8.37	43.86	74.00	-30.14	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

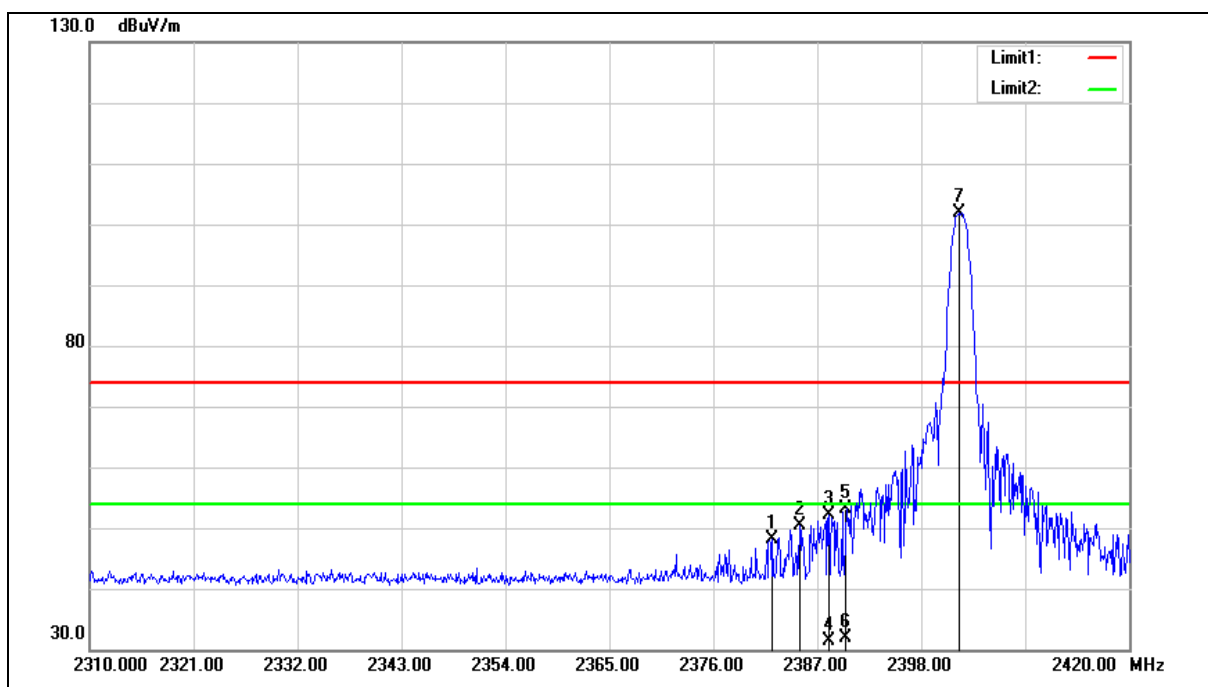
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

頻帶邊緣

附註：其上下邊緣落於低功率射頻電機第 2.7 節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。

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

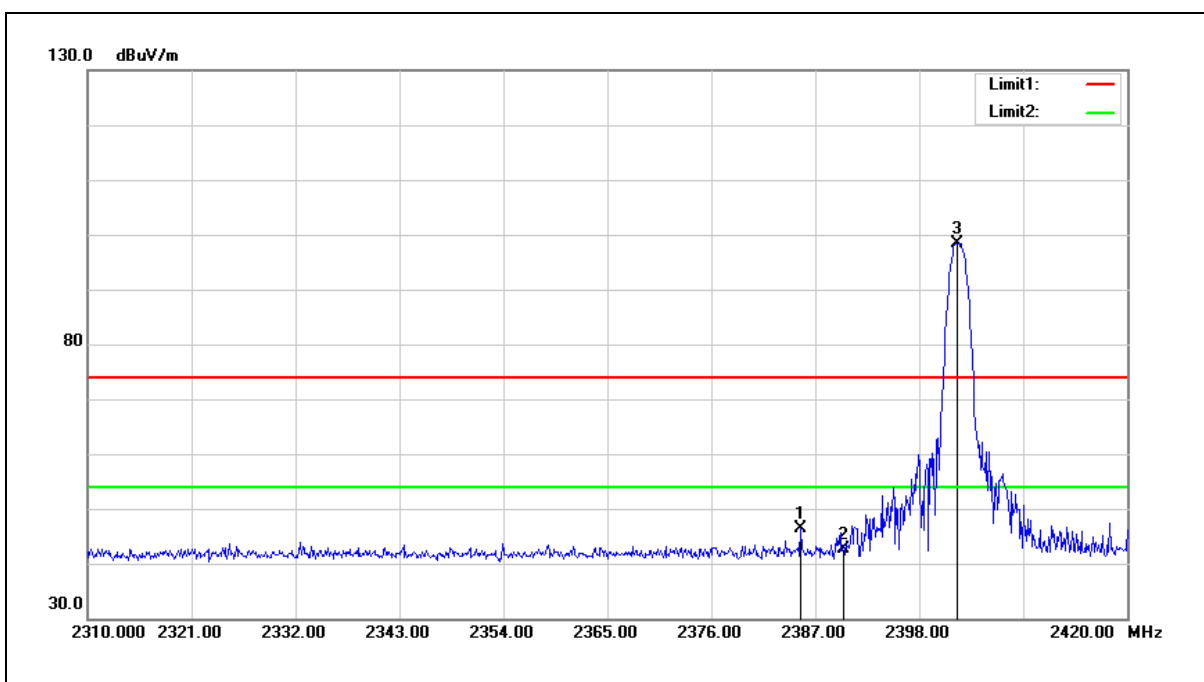
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.270	50.85	-2.79	48.06	74.00	-25.94	peak
2	2385.130	53.11	-2.78	50.33	74.00	-23.67	peak
3	2388.210	54.94	-2.76	52.18	74.00	-21.82	peak
4	2388.210	34.26	-2.76	31.50	54.00	-22.50	AVG
5	2390.000	55.91	-2.75	53.16	74.00	-20.84	peak
6	2390.000	34.59	-2.75	31.84	54.00	-22.16	AVG
7	2401.960	104.46	-2.70	101.76	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



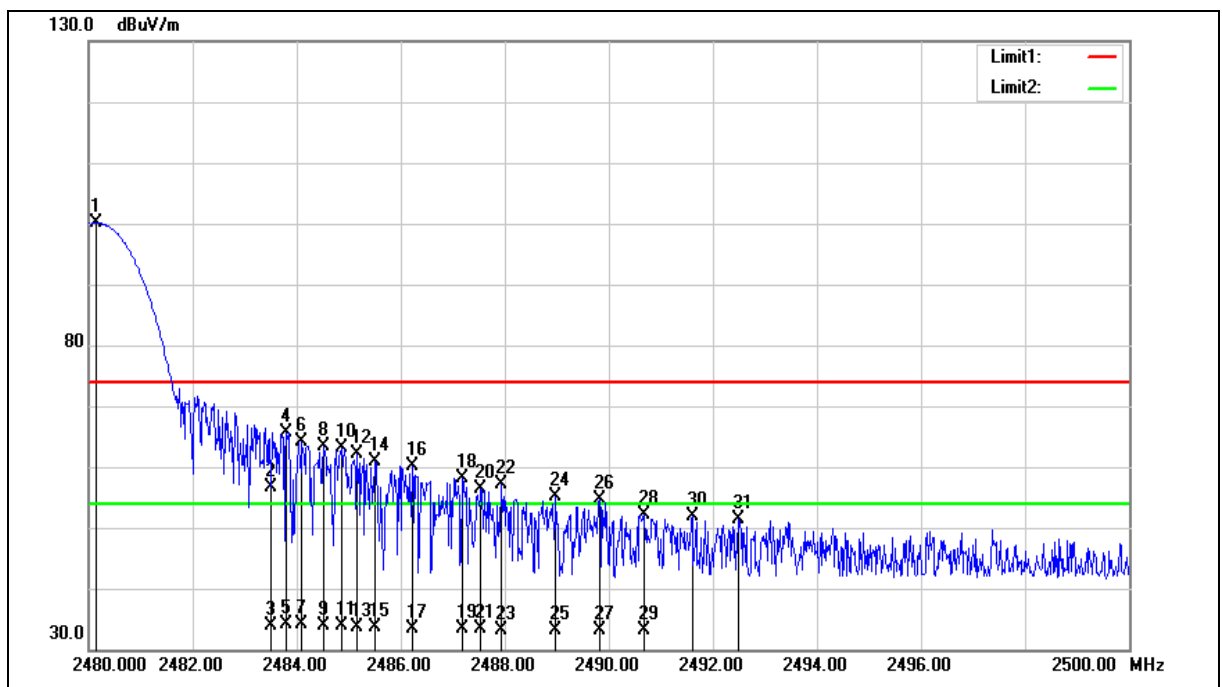
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.460	49.20	-2.78	46.42	74.00	-27.58	peak
2	2390.000	45.47	-2.75	42.72	74.00	-31.28	peak
3	2401.960	101.12	-2.70	98.42	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.140	102.43	-2.35	100.08	--	--	peak
2	2483.500	58.88	-2.34	56.54	74.00	-17.46	peak
3	2483.500	36.15	-2.34	33.81	54.00	-20.19	AVG
4	2483.800	67.96	-2.34	65.62	74.00	-8.38	peak
5	2483.800	36.56	-2.34	34.22	54.00	-19.78	AVG
6	2484.100	66.55	-2.33	64.22	74.00	-9.78	peak
7	2484.100	36.42	-2.33	34.09	54.00	-19.91	AVG
8	2484.520	65.59	-2.33	63.26	74.00	-10.74	peak
9	2484.520	36.24	-2.33	33.91	54.00	-20.09	AVG
10	2484.860	65.35	-2.33	63.02	74.00	-10.98	peak
11	2484.860	36.10	-2.33	33.77	54.00	-20.23	AVG
12	2485.160	64.57	-2.33	62.24	74.00	-11.76	peak
13	2485.160	35.91	-2.33	33.58	54.00	-20.42	AVG
14	2485.500	63.16	-2.33	60.83	74.00	-13.17	peak
15	2485.500	35.84	-2.33	33.51	54.00	-20.49	AVG
16	2486.220	62.52	-2.33	60.19	74.00	-13.81	peak
17	2486.220	35.72	-2.33	33.39	54.00	-20.61	AVG
18	2487.180	60.34	-2.32	58.02	74.00	-15.98	peak
19	2487.180	35.67	-2.32	33.35	54.00	-20.65	AVG
20	2487.540	58.80	-2.31	56.49	74.00	-17.51	peak
21	2487.540	35.59	-2.31	33.28	54.00	-20.72	AVG
22	2487.920	59.44	-2.31	57.13	74.00	-16.87	peak
23	2487.920	35.52	-2.31	33.21	54.00	-20.79	AVG
24	2488.980	57.34	-2.31	55.03	74.00	-18.97	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

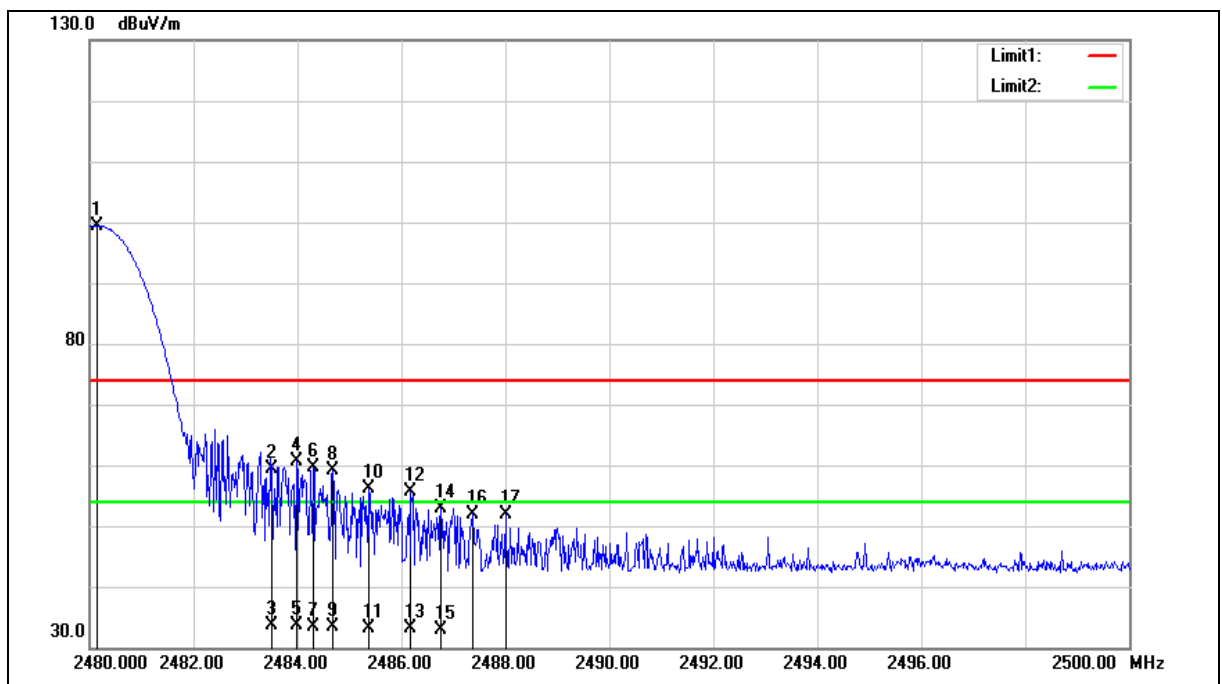
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
25	2488.980	35.43	-2.31	33.12	54.00	-20.88	AVG
26	2489.820	56.88	-2.30	54.58	74.00	-19.42	peak
27	2489.820	35.37	-2.30	33.07	54.00	-20.93	AVG
28	2490.680	54.36	-2.30	52.06	74.00	-21.94	peak
29	2490.680	35.35	-2.30	33.05	54.00	-20.95	AVG
30	2491.600	54.20	-2.30	51.90	74.00	-22.10	peak
31	2492.500	53.58	-2.30	51.28	74.00	-22.72	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

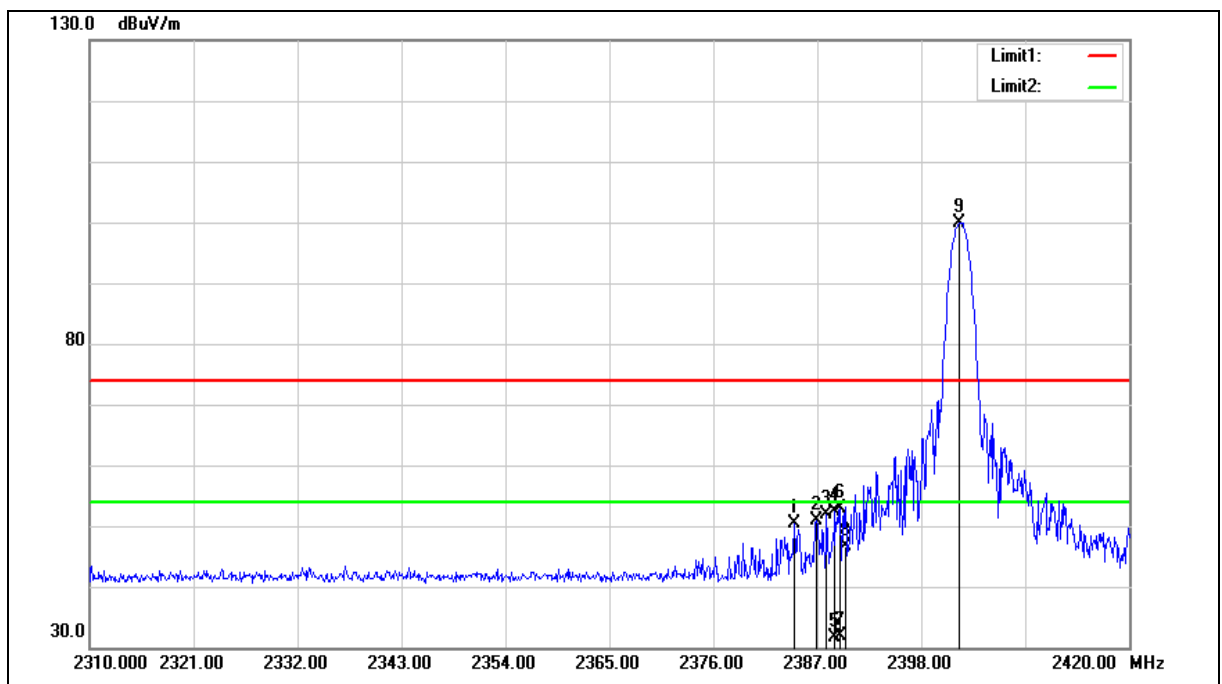
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.140	101.74	-2.35	99.39	--	--	peak
2	2483.500	61.78	-2.34	59.44	74.00	-14.56	peak
3	2483.500	36.04	-2.34	33.70	54.00	-20.30	AVG
4	2483.980	62.91	-2.33	60.58	74.00	-13.42	peak
5	2483.980	35.90	-2.33	33.57	54.00	-20.43	AVG
6	2484.300	61.97	-2.33	59.64	74.00	-14.36	peak
7	2484.300	35.74	-2.33	33.41	54.00	-20.59	AVG
8	2484.680	61.47	-2.33	59.14	74.00	-14.86	peak
9	2484.680	35.63	-2.33	33.30	54.00	-20.70	AVG
10	2485.360	58.38	-2.33	56.05	74.00	-17.95	peak
11	2485.360	35.38	-2.33	33.05	54.00	-20.95	AVG
12	2486.180	58.03	-2.33	55.70	74.00	-18.30	peak
13	2486.180	35.34	-2.33	33.01	54.00	-20.99	AVG
14	2486.760	55.31	-2.33	52.98	74.00	-21.02	peak
15	2486.760	35.20	-2.33	32.87	54.00	-21.13	AVG
16	2487.380	54.30	-2.32	51.98	74.00	-22.02	peak
17	2488.000	54.07	-2.31	51.76	74.00	-22.24	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

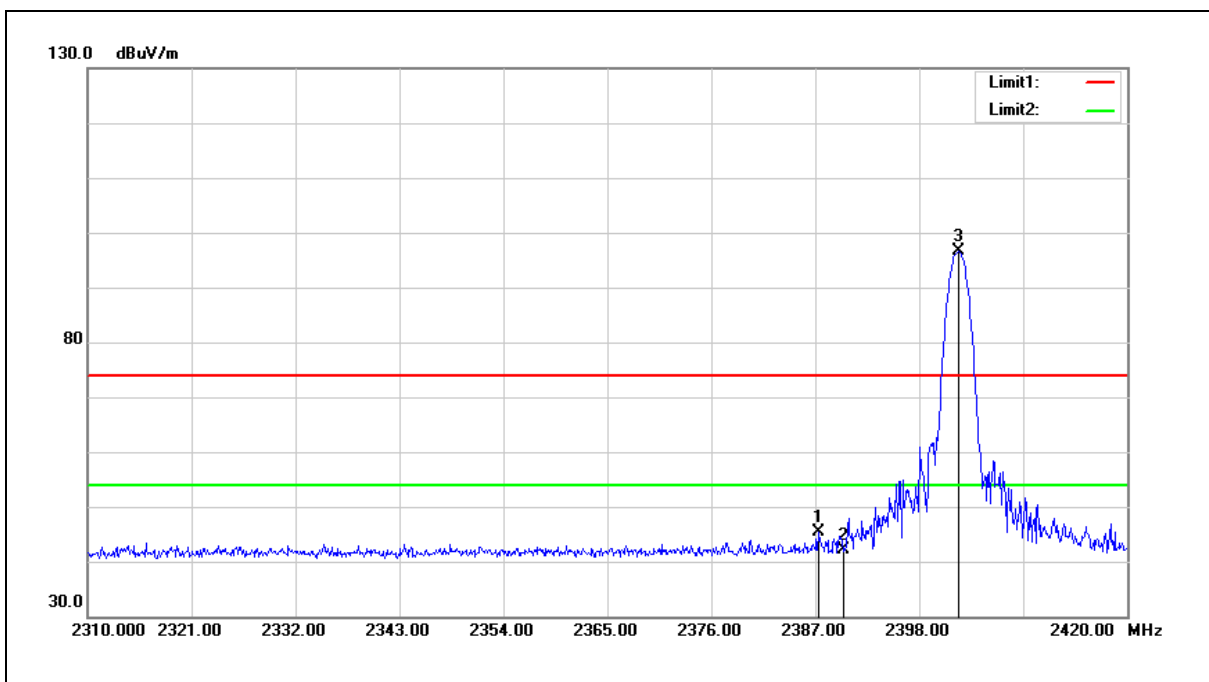
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.580	53.26	-2.78	50.48	74.00	-23.52	peak
2	2386.890	53.54	-2.77	50.77	74.00	-23.23	peak
3	2387.990	54.61	-2.76	51.85	74.00	-22.15	peak
4	2388.870	55.03	-2.76	52.27	74.00	-21.73	peak
5	2388.870	34.46	-2.76	31.70	54.00	-22.30	AVG
6	2389.420	55.63	-2.76	52.87	74.00	-21.13	peak
7	2389.420	34.73	-2.76	31.97	54.00	-22.03	AVG
8	2390.000	49.48	-2.75	46.73	74.00	-27.27	peak
9	2402.070	102.57	-2.70	99.87	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



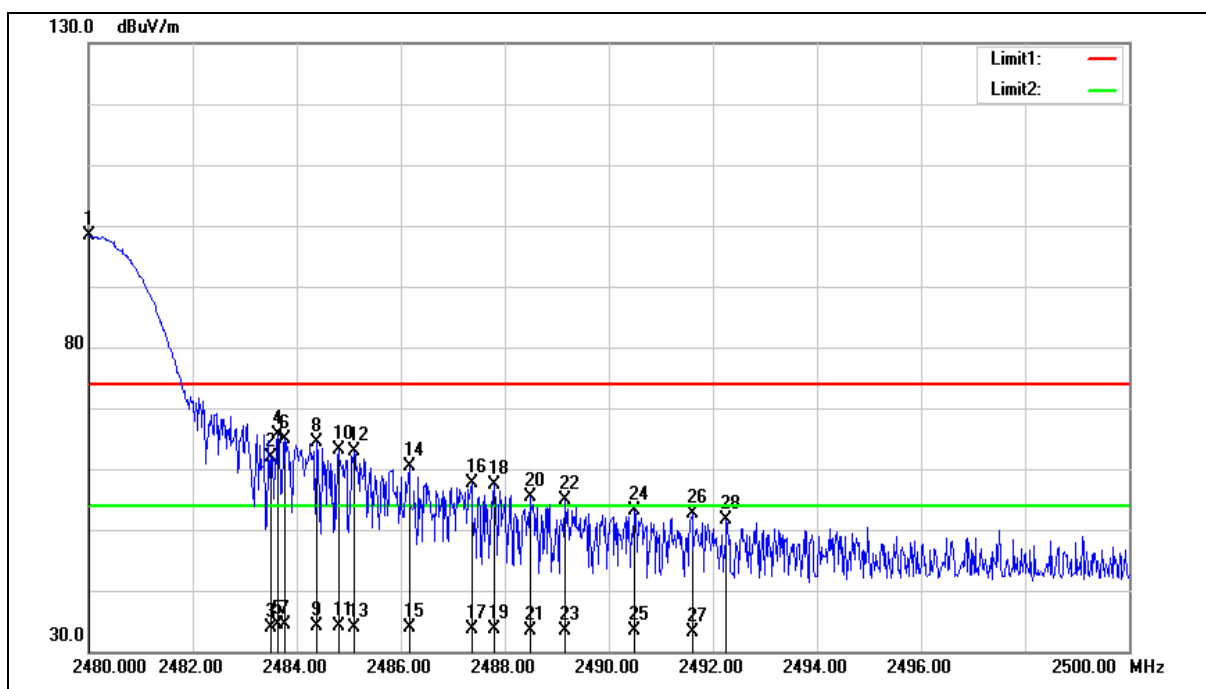
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.330	48.21	-2.77	45.44	74.00	-28.56	peak
2	2390.000	44.98	-2.75	42.23	74.00	-31.77	peak
3	2402.180	99.37	-2.70	96.67	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.020	100.65	-2.35	98.30	--	--	peak
2	2483.500	64.14	-2.34	61.80	74.00	-12.20	peak
3	2483.500	36.34	-2.34	34.00	54.00	-20.00	AVG
4	2483.640	68.08	-2.34	65.74	74.00	-8.26	peak
5	2483.640	36.69	-2.34	34.35	54.00	-19.65	AVG
6	2483.760	67.17	-2.34	64.83	74.00	-9.17	peak
7	2483.760	36.62	-2.34	34.28	54.00	-19.72	AVG
8	2484.380	66.62	-2.33	64.29	74.00	-9.71	peak
9	2484.380	36.43	-2.33	34.10	54.00	-19.90	AVG
10	2484.800	65.57	-2.33	63.24	74.00	-10.76	peak
11	2484.800	36.36	-2.33	34.03	54.00	-19.97	AVG
12	2485.100	65.13	-2.33	62.80	74.00	-11.20	peak
13	2485.100	36.31	-2.33	33.98	54.00	-20.02	AVG
14	2486.160	62.70	-2.33	60.37	74.00	-13.63	peak
15	2486.160	36.18	-2.33	33.85	54.00	-20.15	AVG
16	2487.360	59.86	-2.32	57.54	74.00	-16.46	peak
17	2487.360	36.03	-2.32	33.71	54.00	-20.29	AVG
18	2487.800	59.76	-2.31	57.45	74.00	-16.55	peak
19	2487.800	35.90	-2.31	33.59	54.00	-20.41	AVG
20	2488.480	57.71	-2.31	55.40	74.00	-18.60	peak
21	2488.480	35.81	-2.31	33.50	54.00	-20.50	AVG
22	2489.160	57.23	-2.31	54.92	74.00	-19.08	peak
23	2489.160	35.78	-2.31	33.47	54.00	-20.53	AVG
24	2490.500	55.34	-2.30	53.04	74.00	-20.96	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

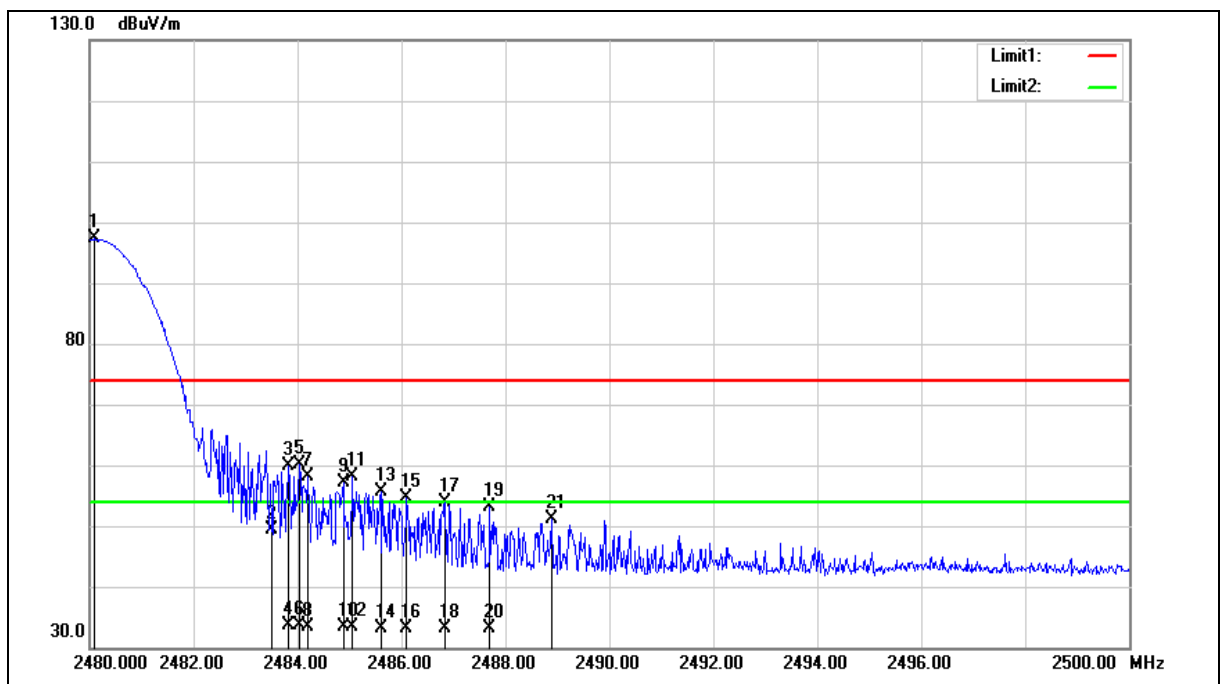
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
25	2490.500	35.70	-2.30	33.40	54.00	-20.60	AVG
26	2491.600	55.00	-2.30	52.70	74.00	-21.30	peak
27	2491.600	35.49	-2.30	33.19	54.00	-20.81	AVG
28	2492.260	53.84	-2.30	51.54	74.00	-22.46	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum. (%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

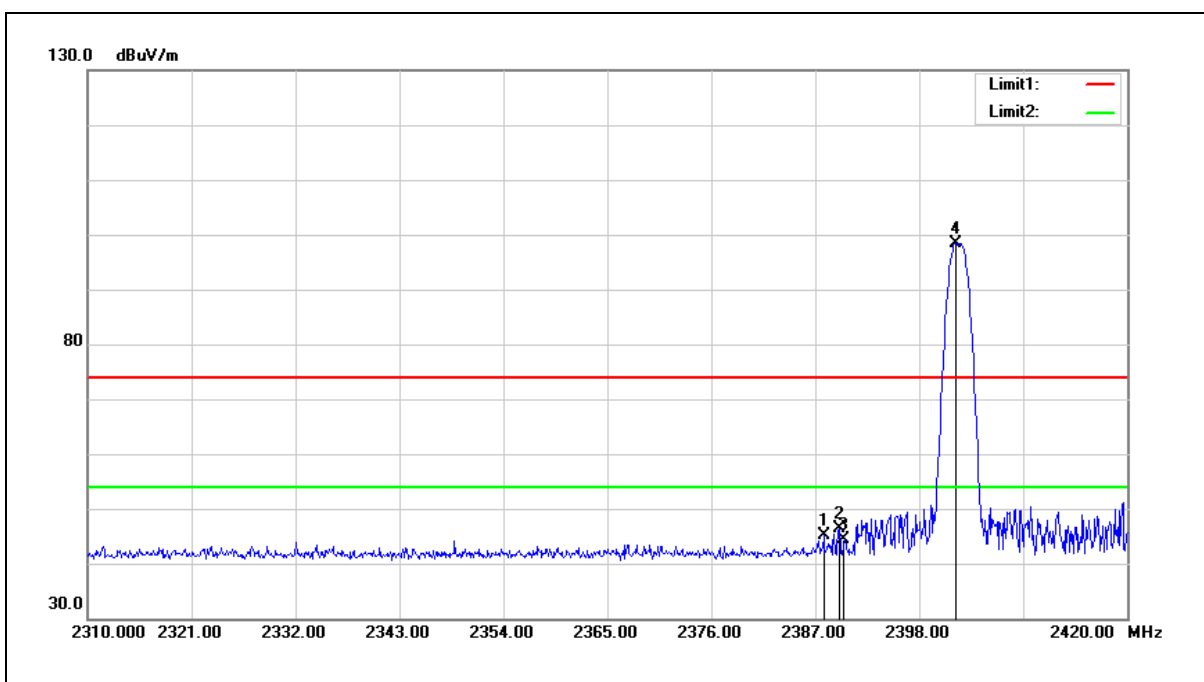
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.080	99.61	-2.35	97.26	--	--	peak
2	2483.500	51.69	-2.34	49.35	74.00	-24.65	peak
3	2483.820	62.28	-2.34	59.94	74.00	-14.06	peak
4	2483.820	36.00	-2.34	33.66	54.00	-20.34	AVG
5	2484.040	62.37	-2.33	60.04	74.00	-13.96	peak
6	2484.040	35.87	-2.33	33.54	54.00	-20.46	AVG
7	2484.200	60.39	-2.33	58.06	74.00	-15.94	peak
8	2484.200	35.76	-2.33	33.43	54.00	-20.57	AVG
9	2484.880	59.45	-2.33	57.12	74.00	-16.88	peak
10	2484.880	35.74	-2.33	33.41	54.00	-20.59	AVG
11	2485.060	60.54	-2.33	58.21	74.00	-15.79	peak
12	2485.060	35.67	-2.33	33.34	54.00	-20.66	AVG
13	2485.600	57.86	-2.33	55.53	74.00	-18.47	peak
14	2485.600	35.58	-2.33	33.25	54.00	-20.75	AVG
15	2486.100	57.00	-2.33	54.67	74.00	-19.33	peak
16	2486.100	35.51	-2.33	33.18	54.00	-20.82	AVG
17	2486.840	56.12	-2.32	53.80	74.00	-20.20	peak
18	2486.840	35.43	-2.32	33.11	54.00	-20.89	AVG
19	2487.700	55.36	-2.31	53.05	74.00	-20.95	peak
20	2487.700	35.36	-2.31	33.05	54.00	-20.95	AVG
21	2488.880	53.39	-2.31	51.08	74.00	-22.92	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



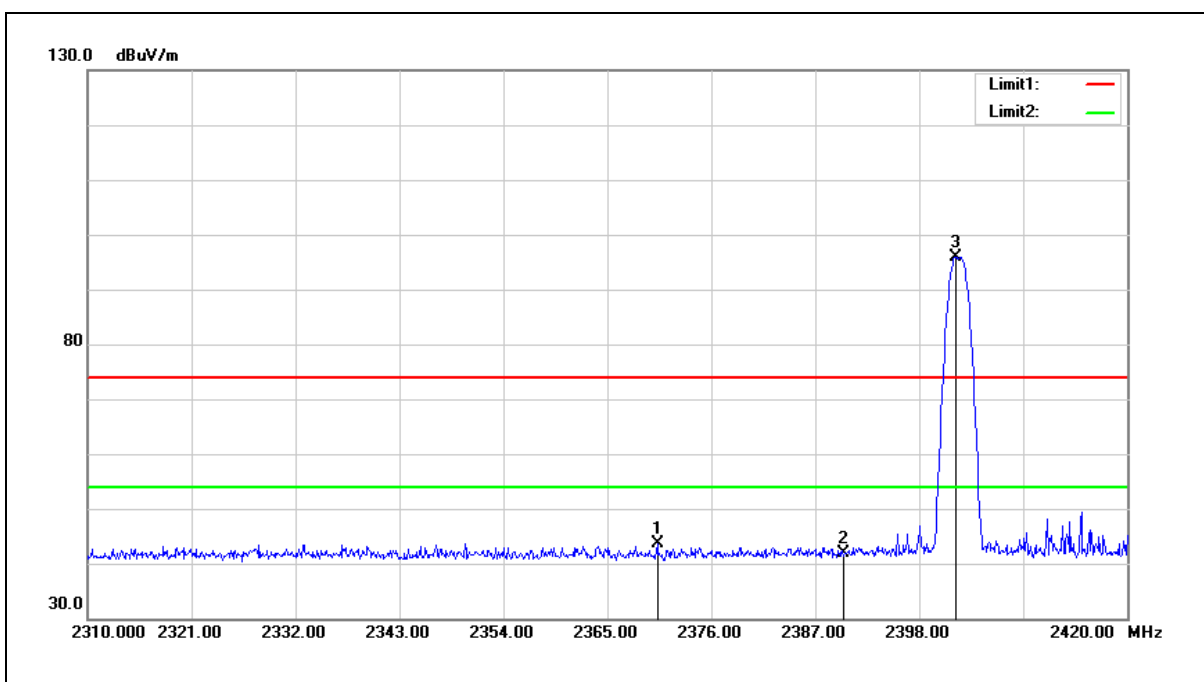
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.880	47.96	-2.76	45.20	74.00	-28.80	peak
2	2389.530	49.14	-2.76	46.38	74.00	-27.62	peak
3	2390.000	47.15	-2.75	44.40	74.00	-29.60	peak
4	2401.850	101.01	-2.70	98.31	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



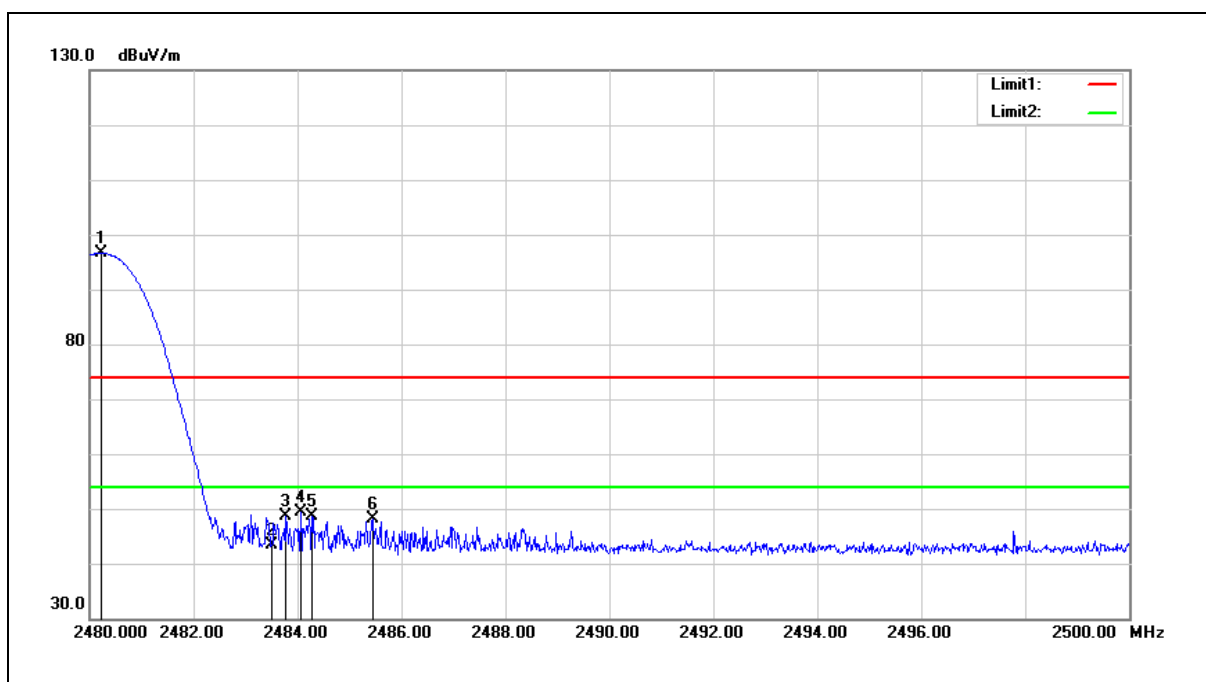
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2370.280	46.44	-2.85	43.59	74.00	-30.41	peak
2	2390.000	44.53	-2.75	41.78	74.00	-32.22	peak
3	2401.850	98.56	-2.70	95.86	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



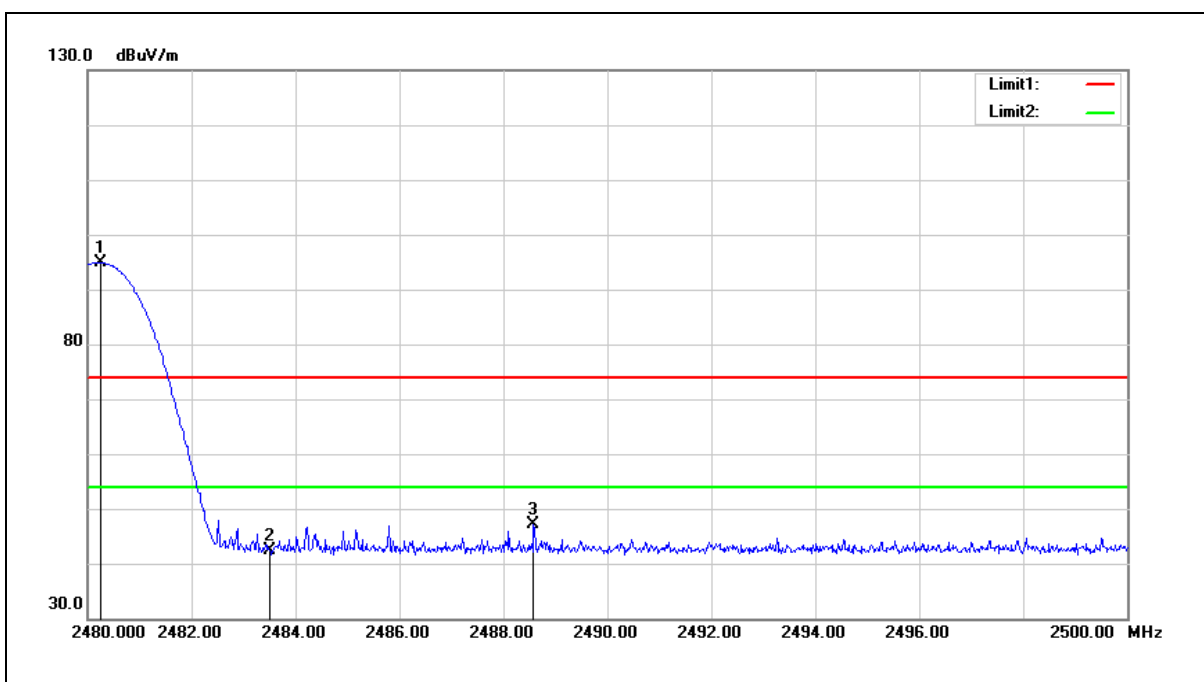
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.220	98.93	-2.35	96.58	--	--	peak
2	2483.500	45.67	-2.34	43.33	74.00	-30.67	peak
3	2483.760	50.88	-2.34	48.54	74.00	-25.46	peak
4	2484.060	51.82	-2.33	49.49	74.00	-24.51	peak
5	2484.280	51.04	-2.33	48.71	74.00	-25.29	peak
6	2485.440	50.47	-2.33	48.14	74.00	-25.86	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



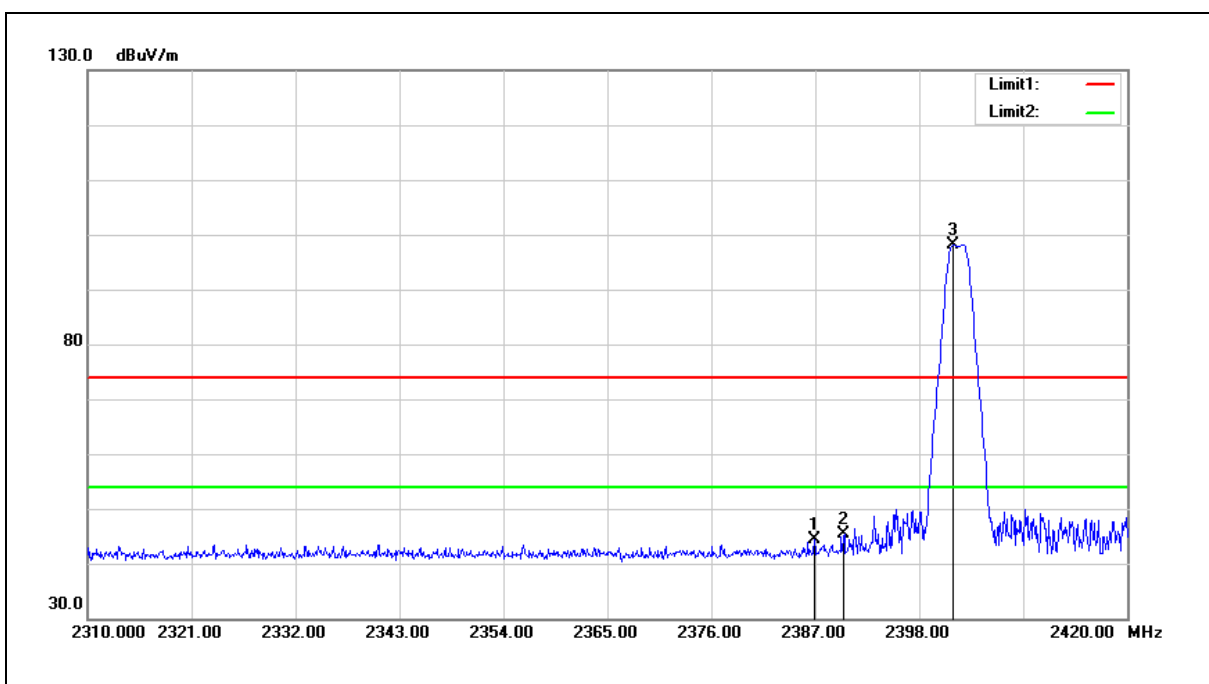
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.240	97.21	-2.35	94.86	--	--	peak
2	2483.500	44.65	-2.34	42.31	74.00	-31.69	peak
3	2488.580	49.49	-2.31	47.18	74.00	-26.82	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



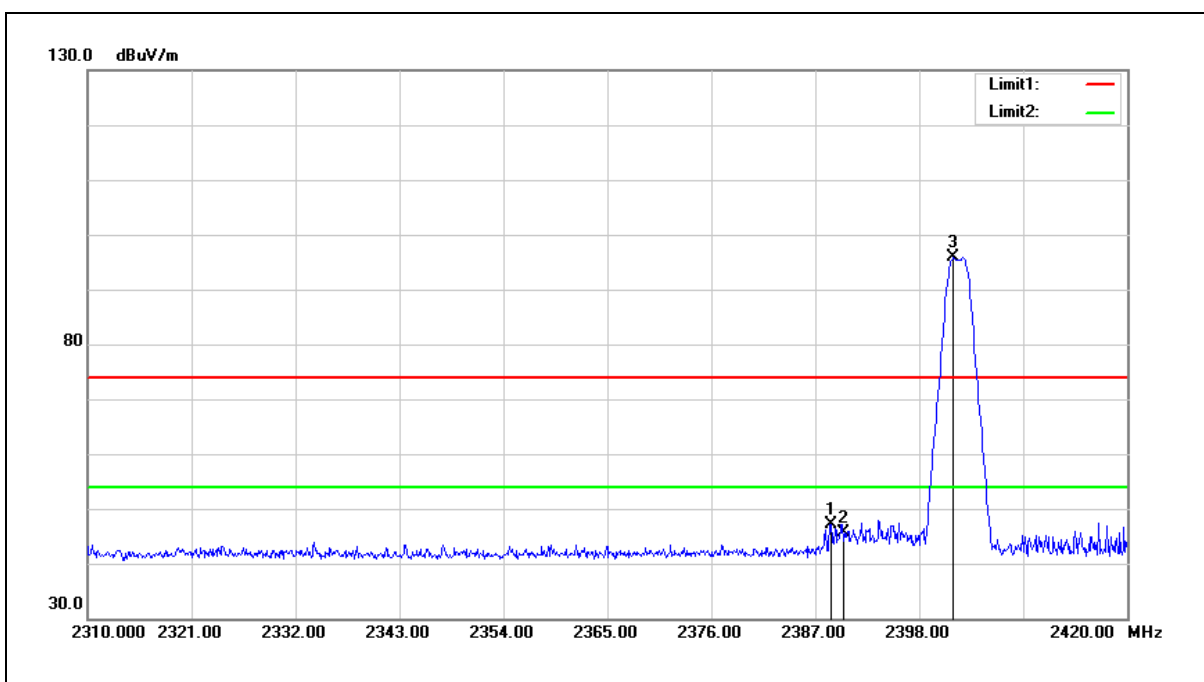
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.890	47.05	-2.77	44.28	74.00	-29.72	peak
2	2390.000	48.08	-2.75	45.33	74.00	-28.67	peak
3	2401.630	100.89	-2.70	98.19	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2402 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



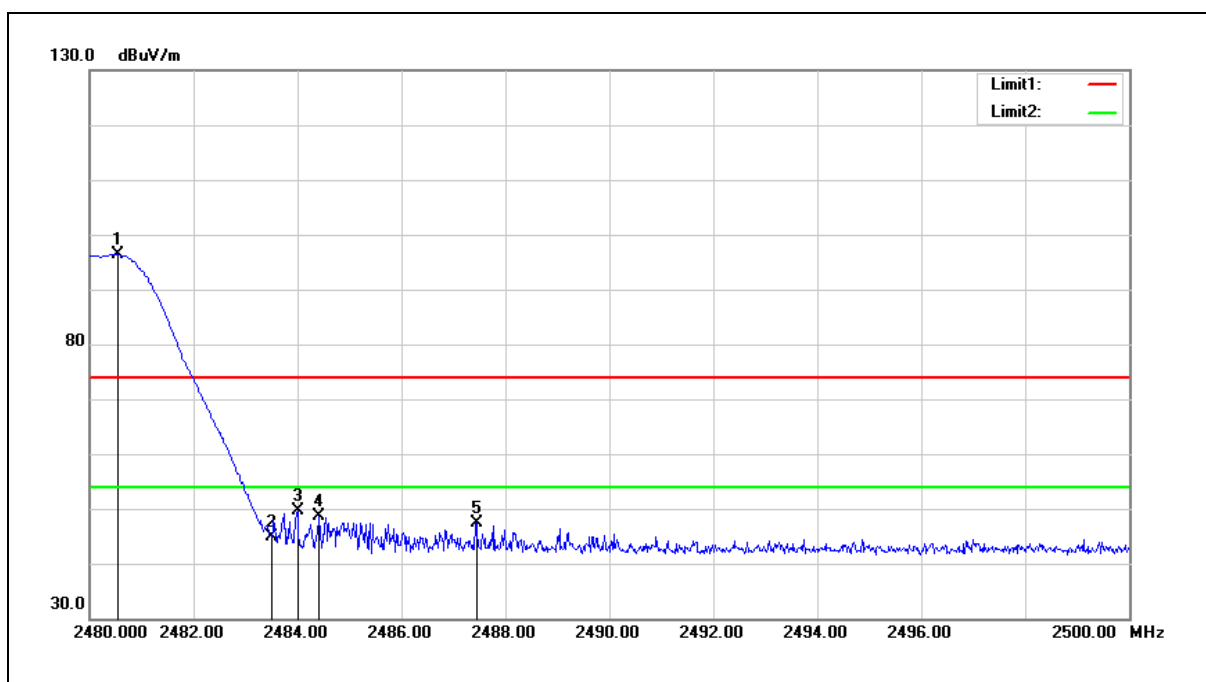
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.650	49.82	-2.76	47.06	74.00	-26.94	peak
2	2390.000	48.33	-2.75	45.58	74.00	-28.42	peak
3	2401.630	98.51	-2.70	95.81	--	--	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Horizontal		



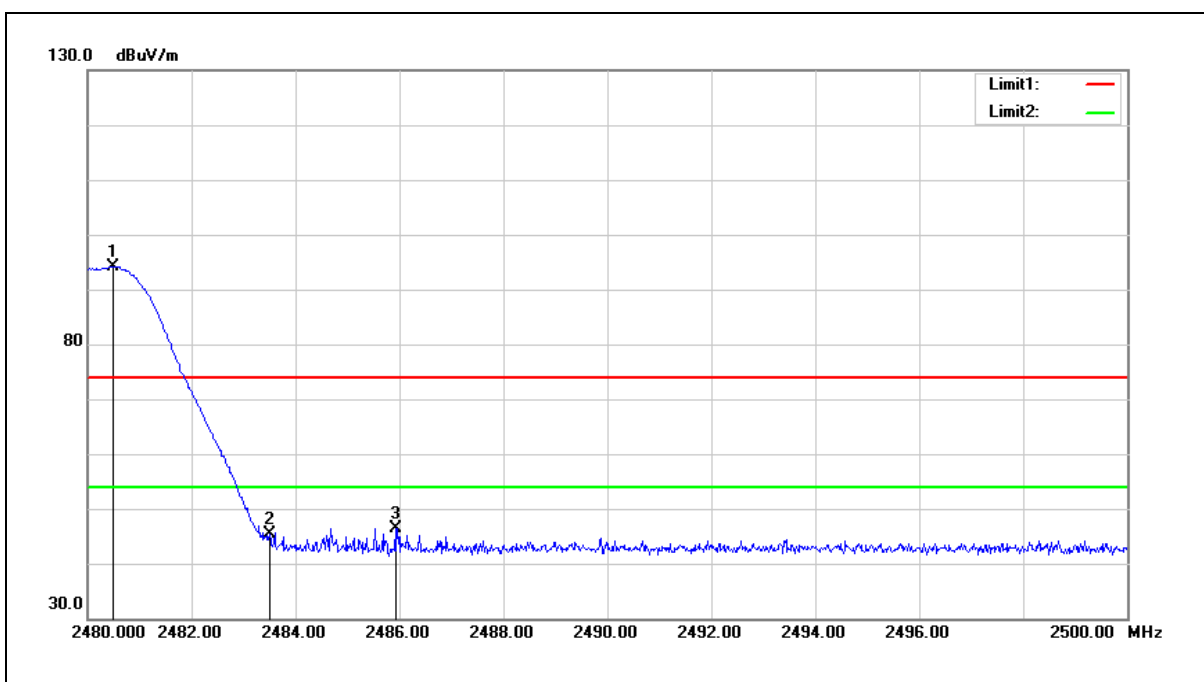
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.540	98.80	-2.35	96.45	--	--	peak
2	2483.500	47.19	-2.34	44.85	74.00	-29.15	peak
3	2484.000	51.88	-2.33	49.55	74.00	-24.45	peak
4	2484.420	51.03	-2.33	48.70	74.00	-25.30	peak
5	2487.440	49.71	-2.32	47.39	74.00	-26.61	peak

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	LP0002	Test Distance:	3 m
Test item:	Band edge	Power:	DC 3.8 V
Frequency:	2480 MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 6		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2480.480	96.50	-2.35	94.15	--	--	peak
2	2483.500	47.75	-2.34	45.41	74.00	-28.59	peak
3	2485.920	48.75	-2.33	46.42	74.00	-27.58	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre-Amplifier gain (dB).

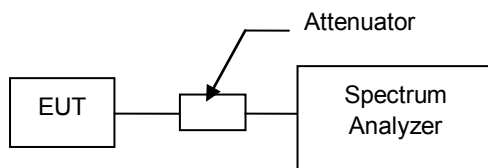
3. When the peak results are less than average limit, so not need to evaluate the average.

4.4 非必要頻帶之量測

合格標準：

發射限制： 使用頻帶範圍外之任意 100 千赫 (kHz)內，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 (kHz)內的射頻功率，須衰減 20 分貝(dB)，以射頻傳導或輻射方式測量。

測試架構圖：



測試結果：

操作模式	: Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode Mode 5: LE, GFSK Continuous TX Mode Mode 6: 2LE, GFSK Continuous TX Mode
測試結果	: 合格
量測之結果掃圖如下頁所示	

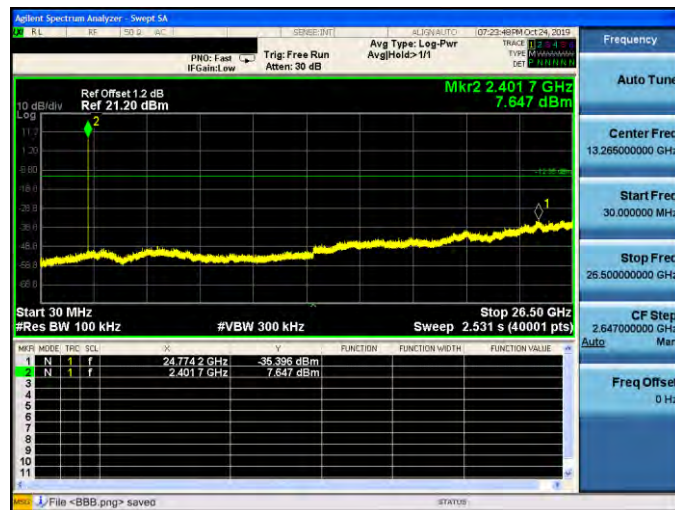
附註 1: 於使用頻帶範圍之任意 100 千赫 (kHz)內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100 千赫 (kHz)內的射頻功率，衰減 20 分貝(dB)以上，符合規定。

附註 2: 測試結果頻帶外之輻射雜訊皆小於主頻 TX 20 dB。

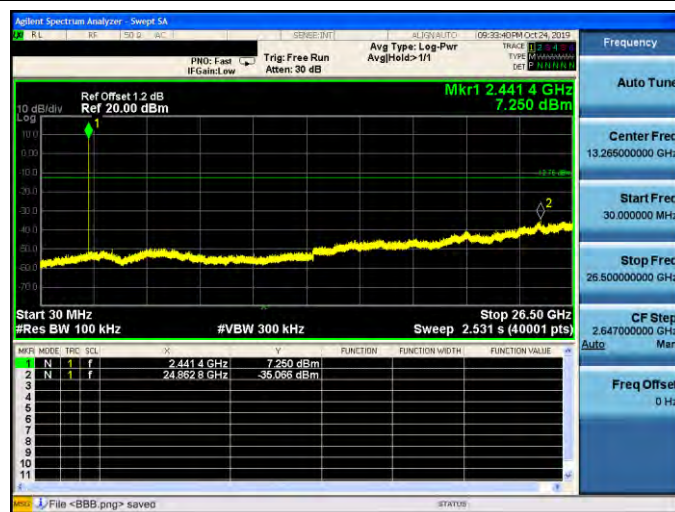
Out of Band Conducted Spurious Emission

Mode 2: BR, GFSK Continuous TX Mode

低頻道



中頻道

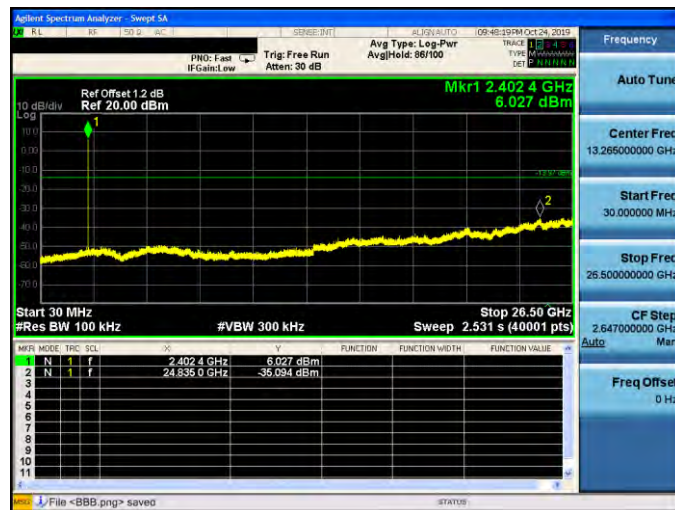


高頻道

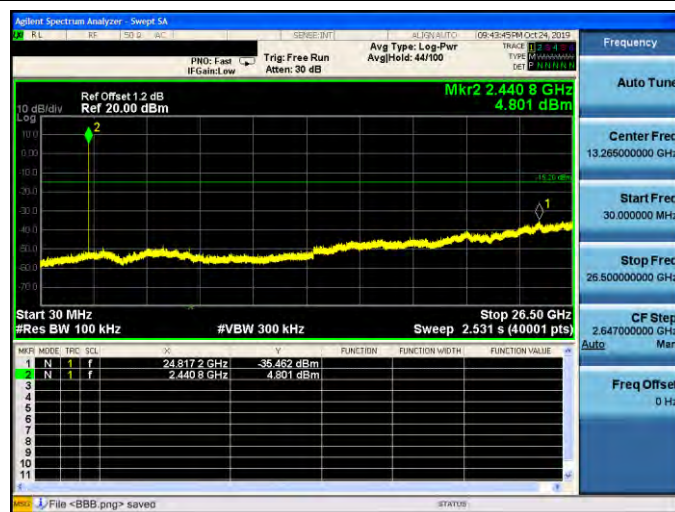


Mode 4: EDR, 8DPSK Continuous TX Mode

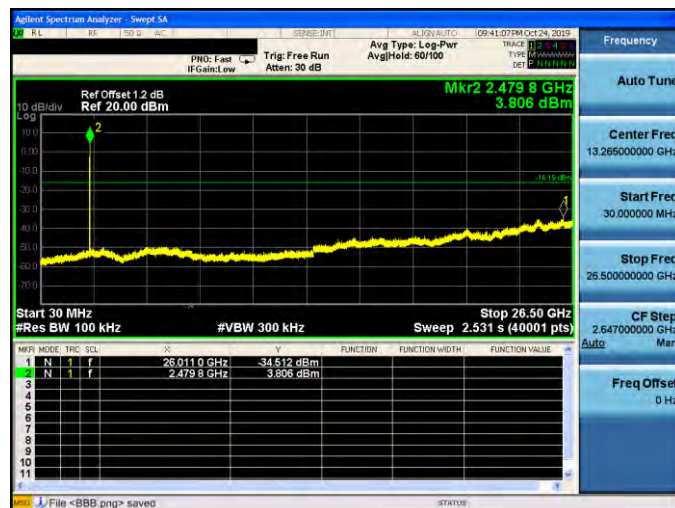
低頻道



中頻道

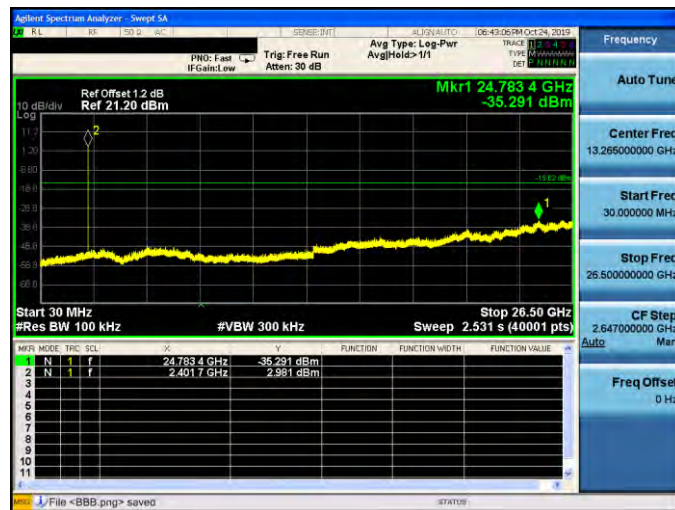


高頻道

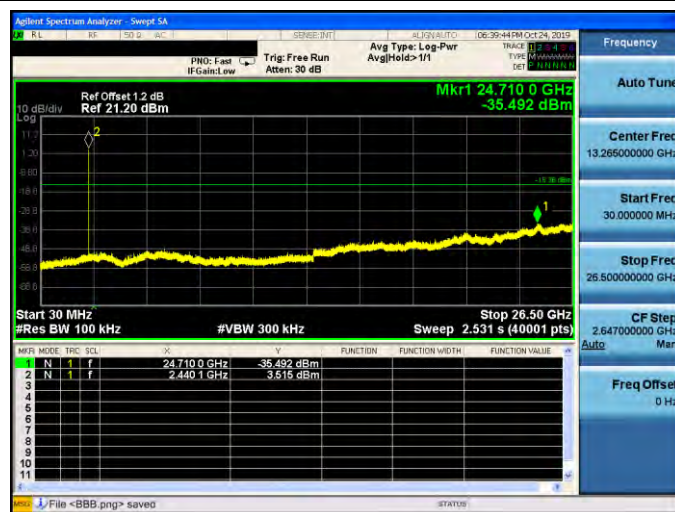


Mode 5: LE, GFSK Continuous TX Mode

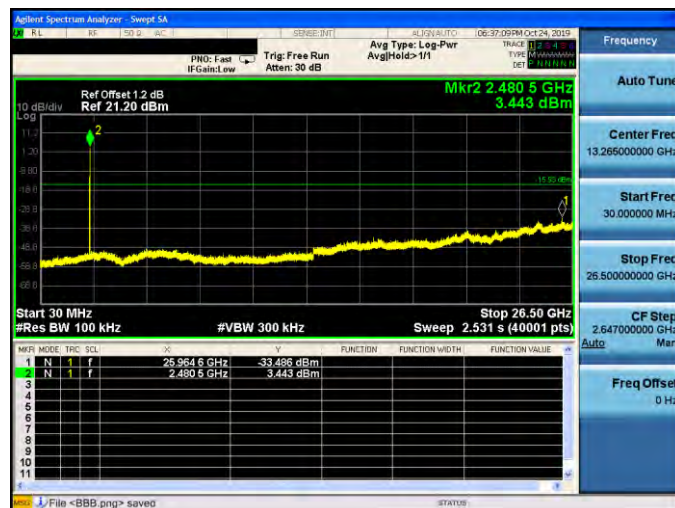
低頻道



中頻道

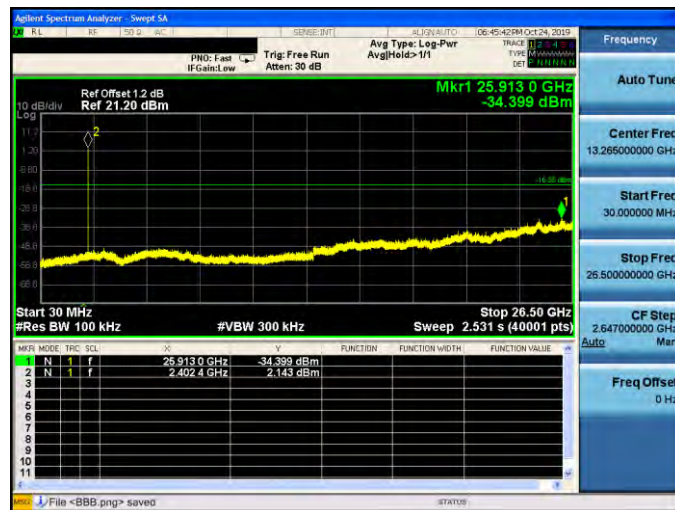


高頻道

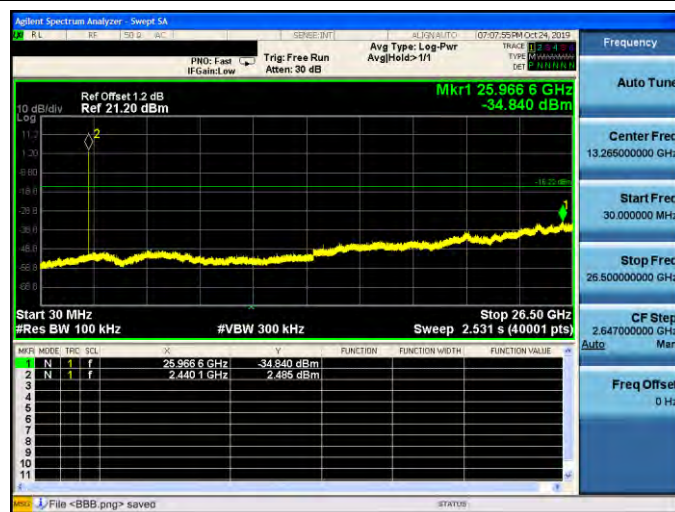


Mode 6: 2LE, GFSK Continuous TX Mode

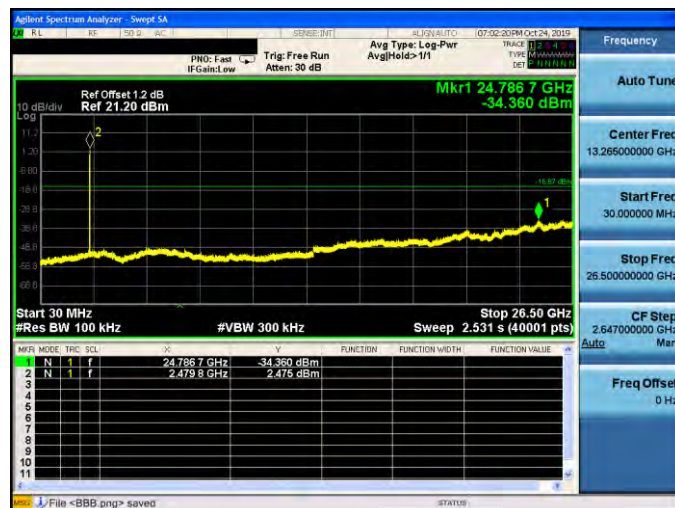
低頻道



中頻道

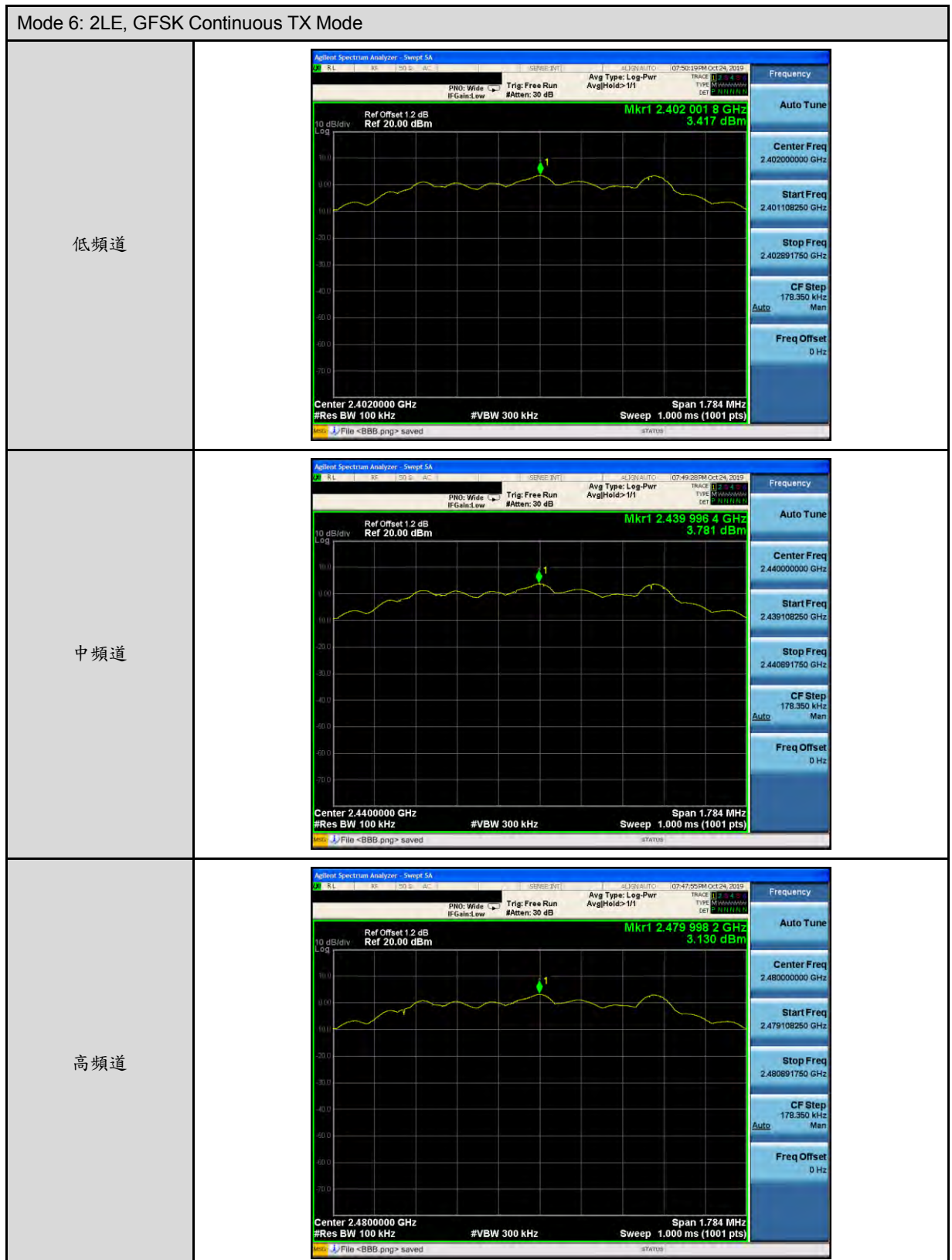


高頻道



Reference level

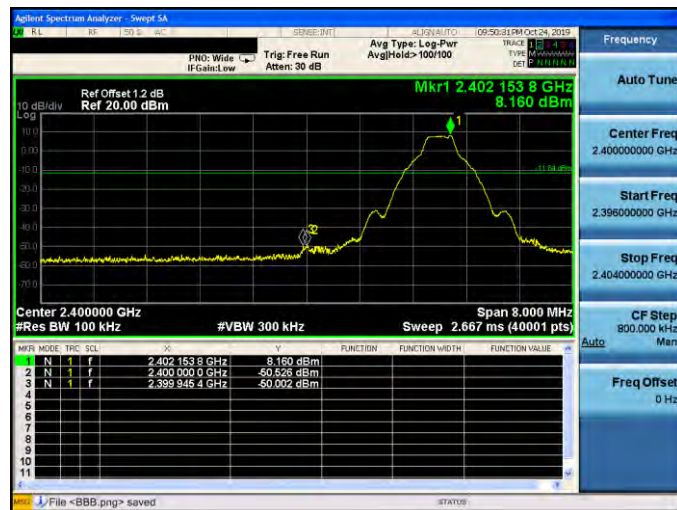




Conducted Band Edge

Mode 2: BR, GFSK Continuous TX Mode_Un-hopping

低頻道

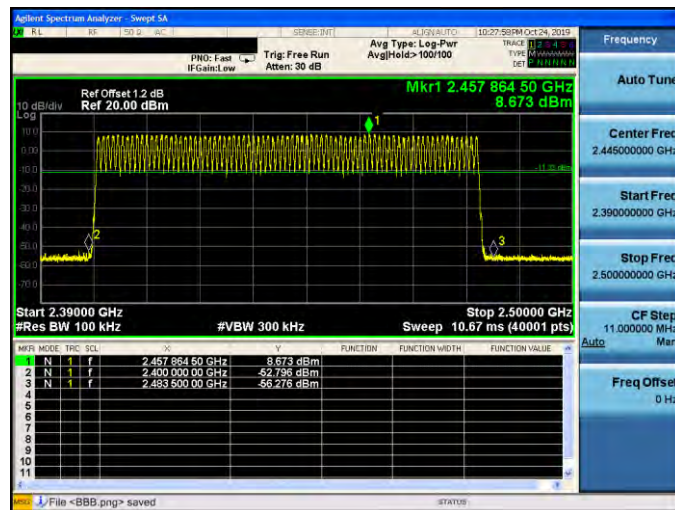


高頻道



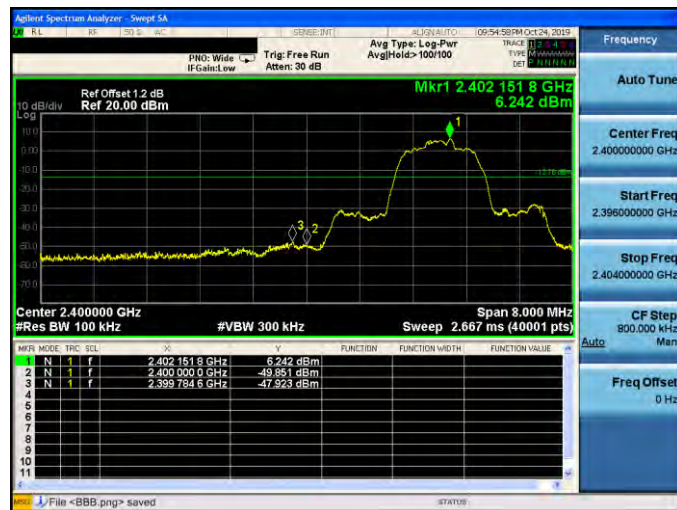
Mode 2: BR, GFSK Continuous TX Mode_Hopping

低頻道-高頻道



Mode 4: EDR, 8DPSK Continuous TX Mode_Un-hopping

低頻道

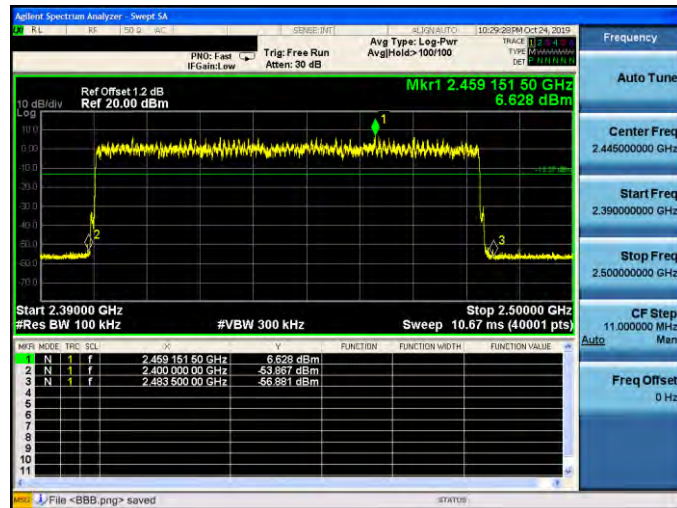


高頻道



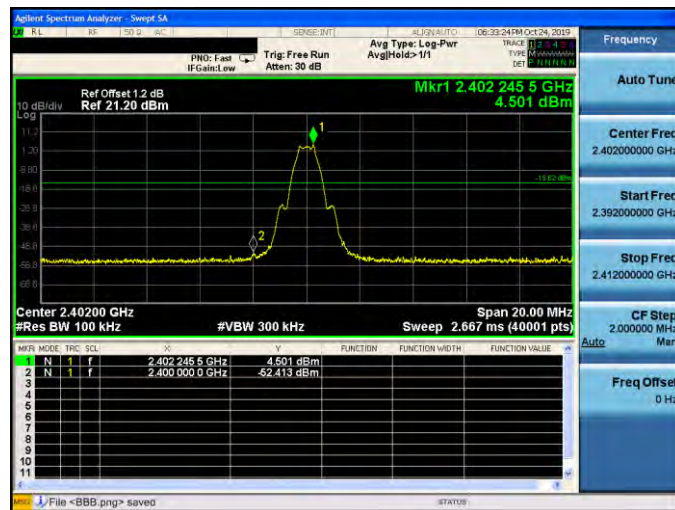
Mode 4: EDR, 8DPSK Continuous TX Mode_Hopping

低頻道-高頻道

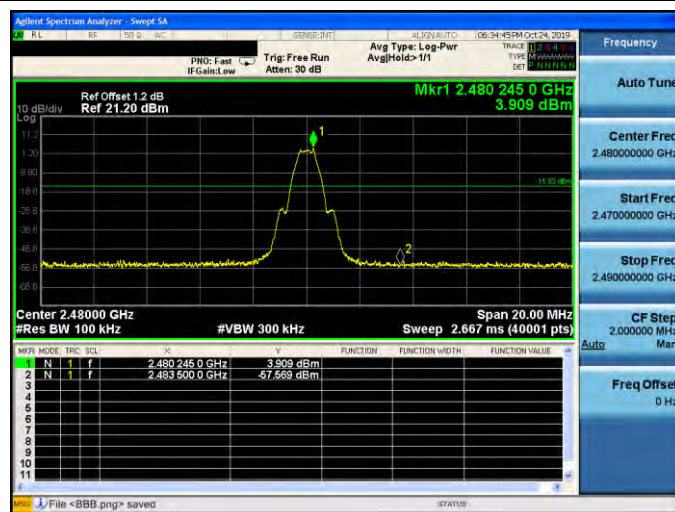


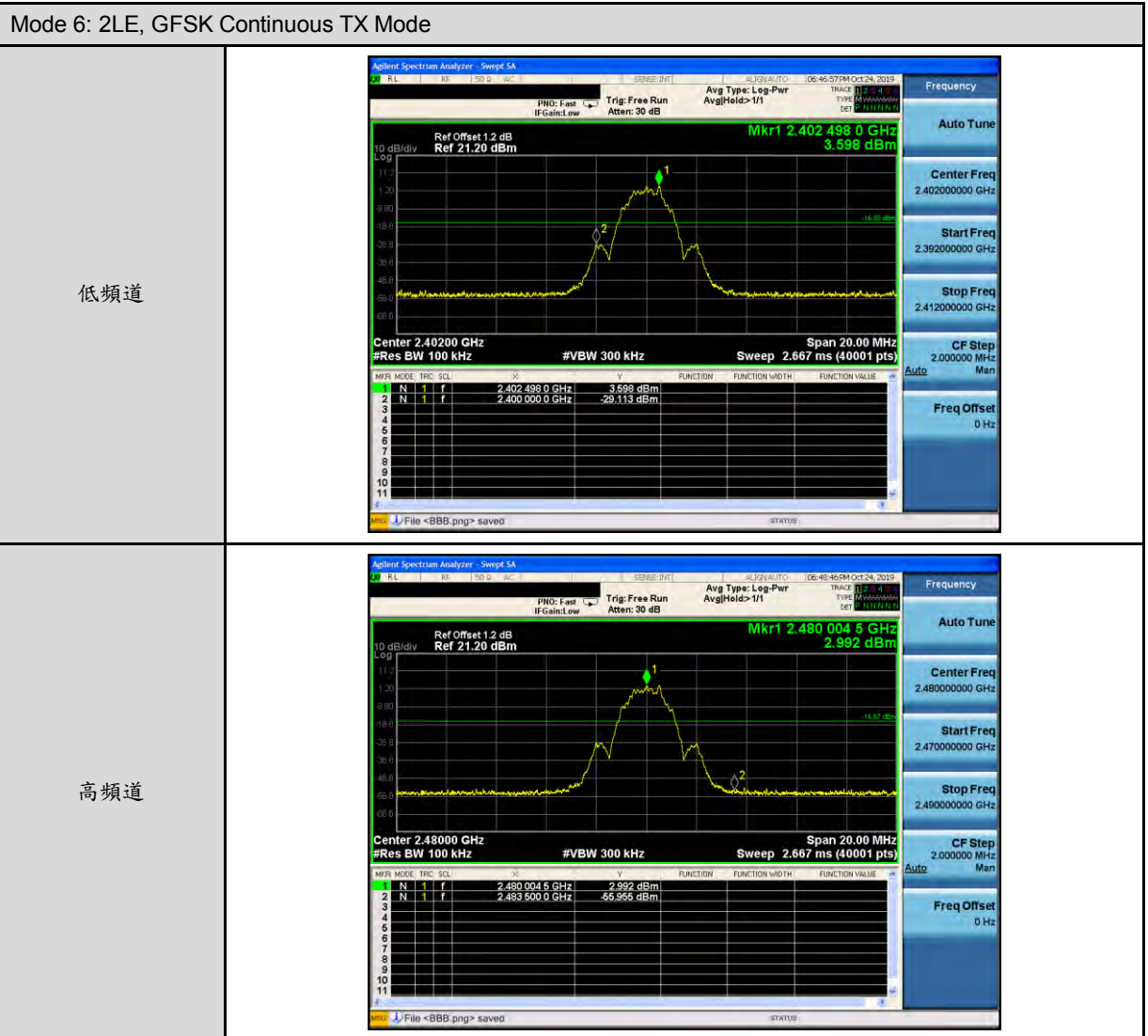
Mode 5: LE, GFSK Continuous TX Mode

低頻道



高頻道





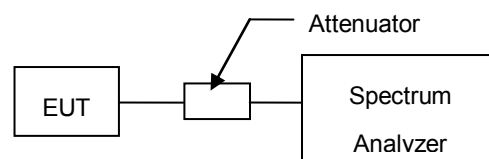
4.5 頻率範圍之要求

合格標準：

依據NCC 低功率射頻電機技術規範(LP0002)之3.10.1.1節之要求，允許使用的頻率範圍為2400至2483.5 MHz。

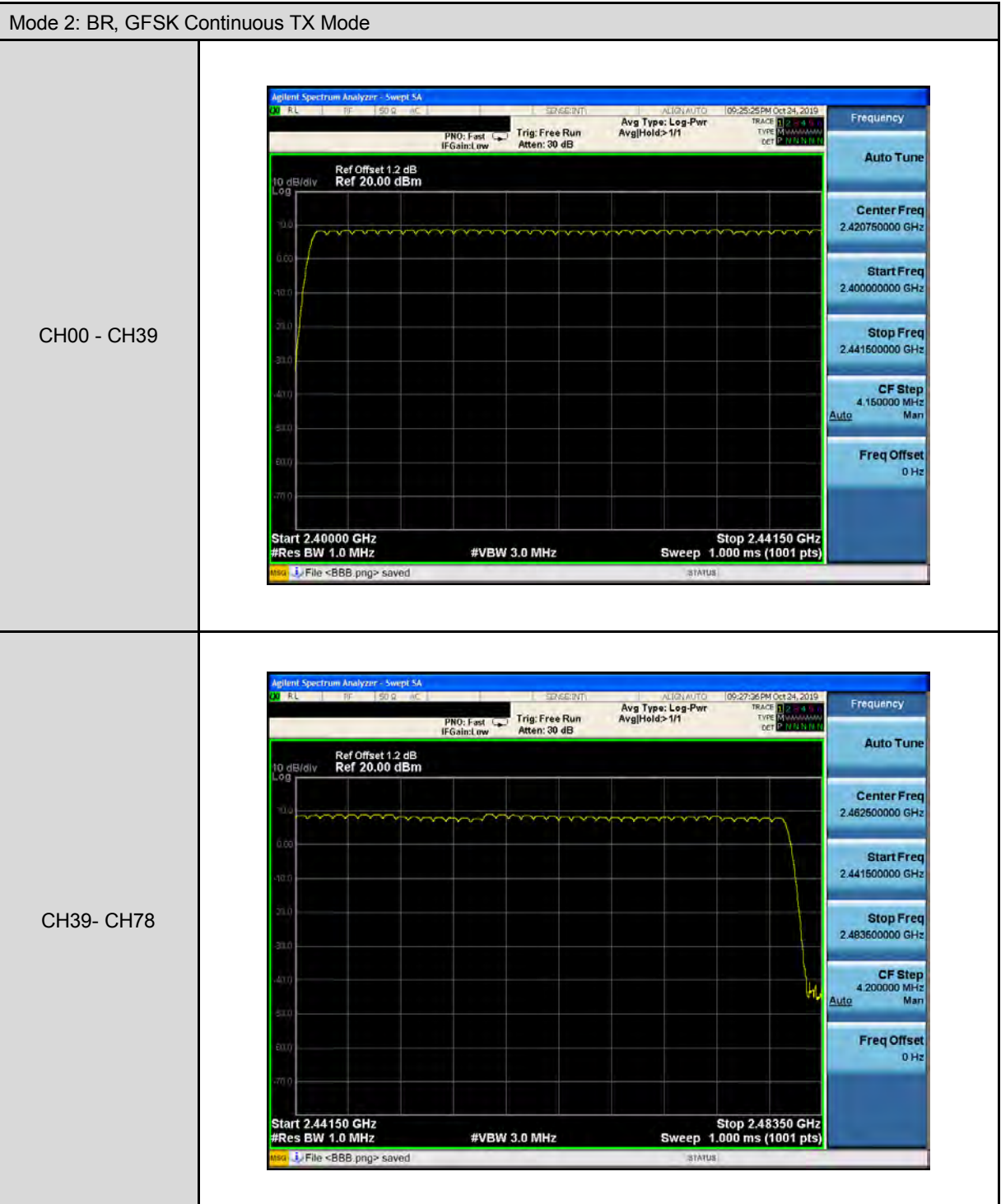
測試架構圖：

測試場地測試配置如圖所示。



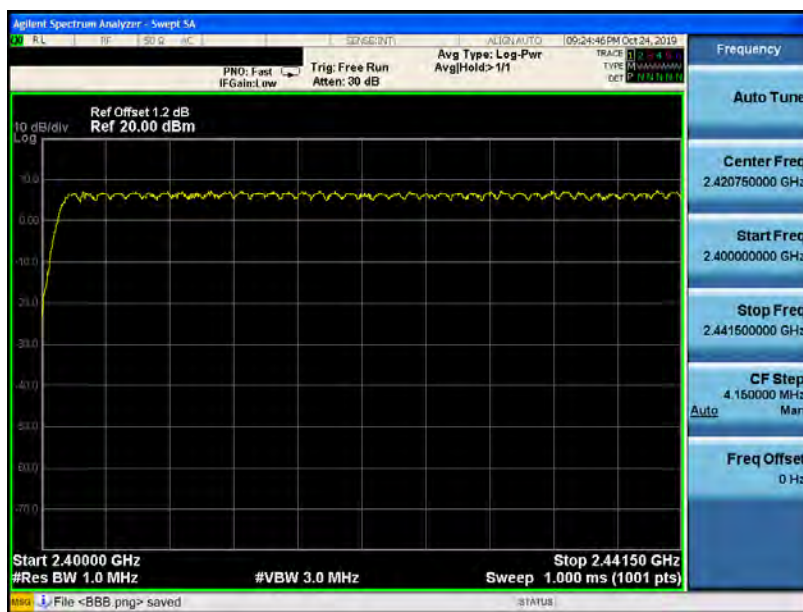
測試結果：

操作模式	: Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode
測試結果	: 合格
量測之掃描圖如下頁所示	



Mode 4: EDR, 8DPSK Continuous TX Mode

CH00 - CH39



CH39- CH78



4.6 發射頻寬之要求

合格標準:

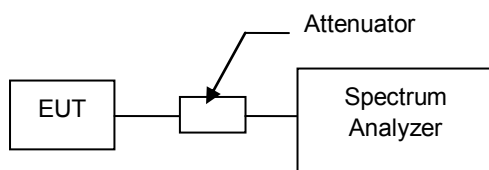
BR/EDR

對跳頻系統(Frequency Hopping System)而言，依據 NCC 低功率射頻電機技術規範 3.10.1.6(1)(A)節之要求，跳頻系統之載波頻率頻道間隔應至少 25 千赫(kHz)或跳頻頻道 20 dB 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，且應隨所發射的信號同步偏移接收頻率。

LE/2LE

依據 NCC 低功率射頻電機技術規範 3.10.1.6(2)(A)節之要求，對使用數位調變技術(Digital Modulation Techniques)系統而言，6 dB 頻寬至少應有 500 千赫(kHz)。

測試架構圖：



測試結果:

操作模式： Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode				
操作模式	頻道	發射頻寬(20 dB)		
		量測值 (MHz)	2/3 量測值 (MHz)	限制值 (MHz)
Mode 2	低頻道	0.958	0.638	-----
	中頻道	0.956	0.638	-----
	高頻道	0.956	0.638	-----
Mode 4	低頻道	1.295	0.863	-----
	中頻道	1.294	0.863	-----
	高頻道	1.296	0.864	-----
註：發射頻寬(20 dB) 之 2/3 量測值 = 量測值 x 2 / 3				
測試掃描圖請參考下頁。				

操作模式： Mode 5: LE, GFSK Continuous TX Mode Mode 6: 2LE, GFSK Continuous TX Mode			
操作模式	頻道	發射頻寬(6dB)	
		量測值 (kHz)	限制值 (kHz)
Mode 5	低頻道	669.800	≥ 500
	中頻道	669.800	≥ 500
	高頻道	670.500	≥ 500
Mode 6	低頻道	1189.000	≥ 500
	中頻道	1190.000	≥ 500
	高頻道	1191.000	≥ 500
測試掃描圖請參考下頁。			

Mode 2: BR, GFSK Continuous TX Mode

低頻道



中頻道



高頻道



Mode 4: EDR,8DPSK Continuous TX Mode

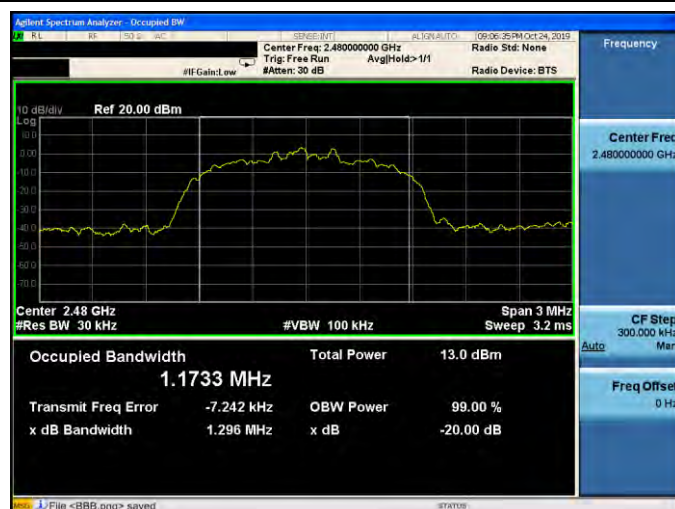
低頻道



中頻道



高頻道





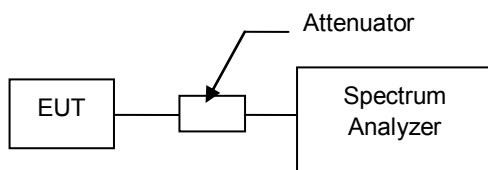
Mode 6: 2LE, GFSK Continuous TX Mode	
低頻道	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.40200000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 2.402 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 2.0372 MHz Total Power 11.7 dBm</p> <p>Transmit Freq Error 5.455 kHz OBW Power 99.00 % x dB Bandwidth 1.189 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>
中頻道	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.44000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 2.44 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 2.0349 MHz Total Power 12.1 dBm</p> <p>Transmit Freq Error 5.935 kHz OBW Power 99.00 % x dB Bandwidth 1.190 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>
高頻道	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.48000000 GHz Trig: Free Run #Atten: 20 dB Avg/Hold: 1/1 Radio Std: None Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 2.48 GHz #Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 2.0338 MHz Total Power 11.4 dBm</p> <p>Transmit Freq Error 1.939 kHz OBW Power 99.00 % x dB Bandwidth 1.191 MHz x dB -6.00 dB</p> <p>File <BBB.png> saved</p>

4.7 頻道數之要求

合格標準：

對跳頻系統(Frequency Hopping System)而言,依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.6(1)(A)(a)節之要求，至少使用 15 個無重疊之頻道(複合系統時,關閉數位調變作業狀態檢驗)。

測試架構圖：

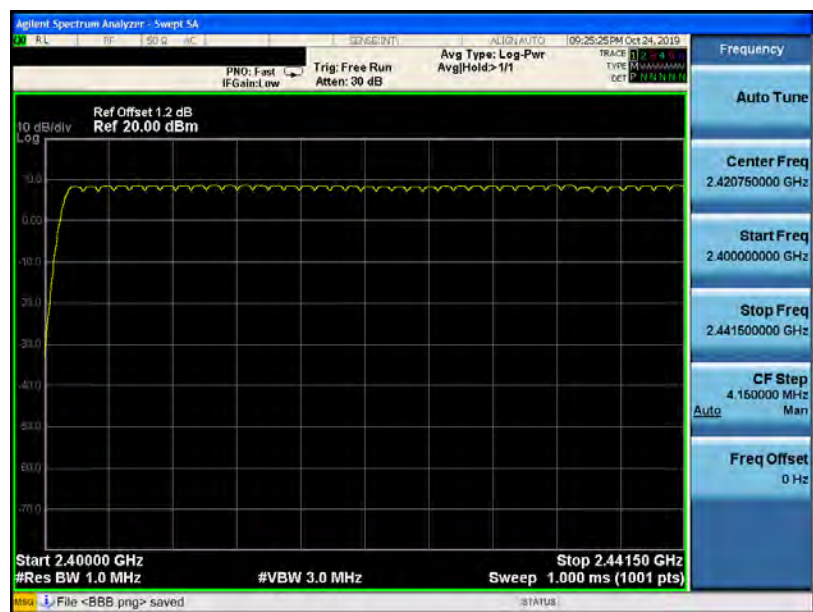


測試結果：

操作模式	: Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode
測試結果	: 合格
量測之掃描圖如下頁所示	

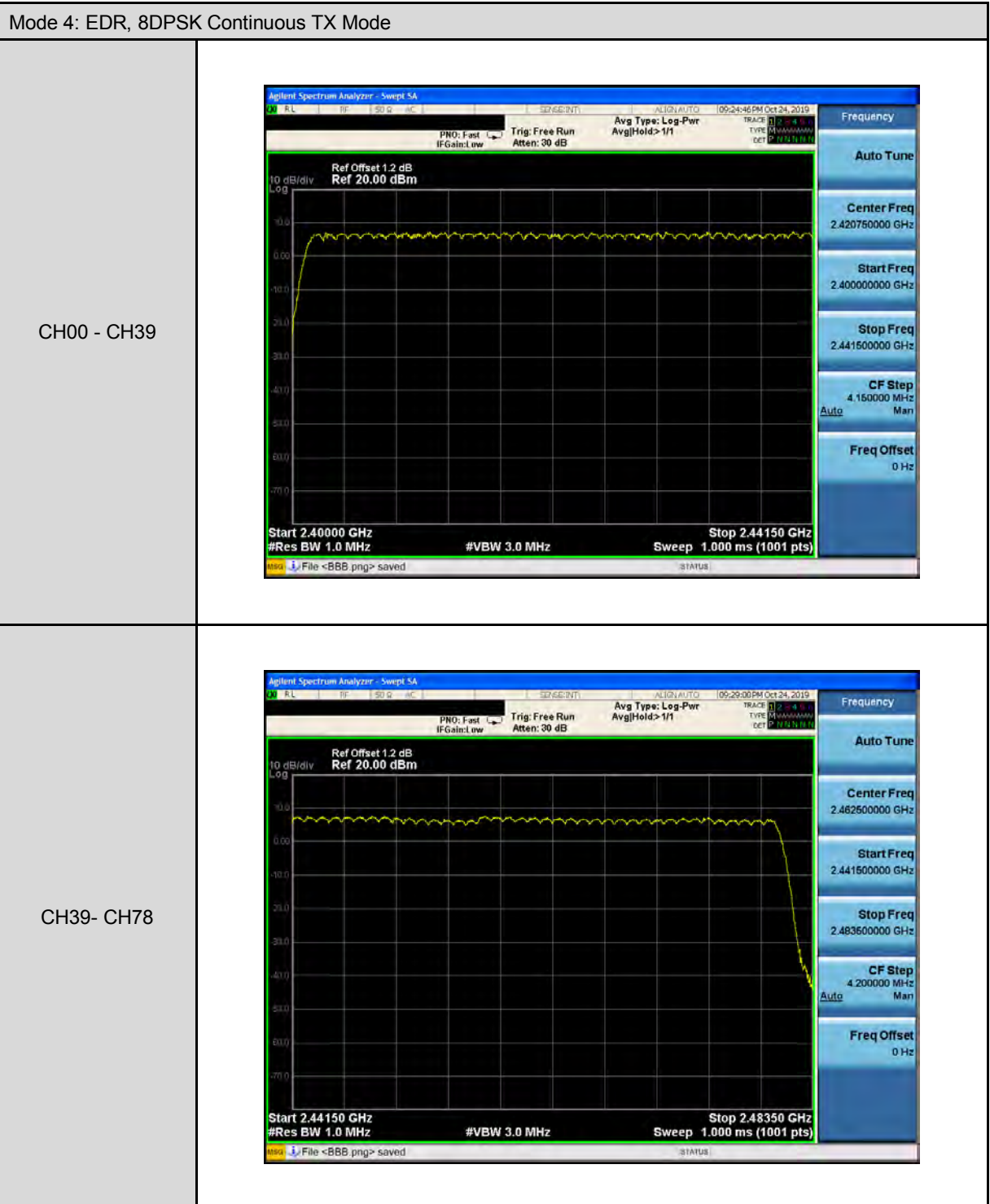
Mode 2: BR, GFSK Continuous TX Mode

CH00 - CH39



CH39- CH78



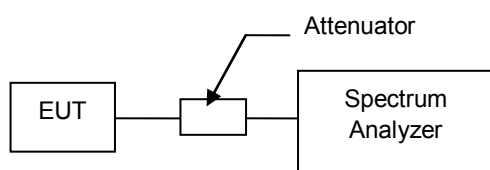


4.8 跳頻系統之載波頻率頻道間隔之量測

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002) 之 3.10.1.6(1)(A)節要求，應至少 25 kHz 或跳頻頻道之 20 dB 頻寬之三分之二,兩者取較寬者。

測試架構圖：



測試結果:

操作模式： Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode			
操作模式	頻道	鄰頻道載波間隔	
		量測值 (MHz)	限制值 (MHz)
Mode 2	低頻道	1.000	≥ 0.638
	中頻道	1.000	≥ 0.638
	高頻道	1.000	≥ 0.638
Mode 4	低頻道	1.000	≥ 0.863
	中頻道	1.000	≥ 0.863
	高頻道	1.000	≥ 0.864

Mode 2: BR, GFSK Continuous TX Mode

低頻道



中頻道

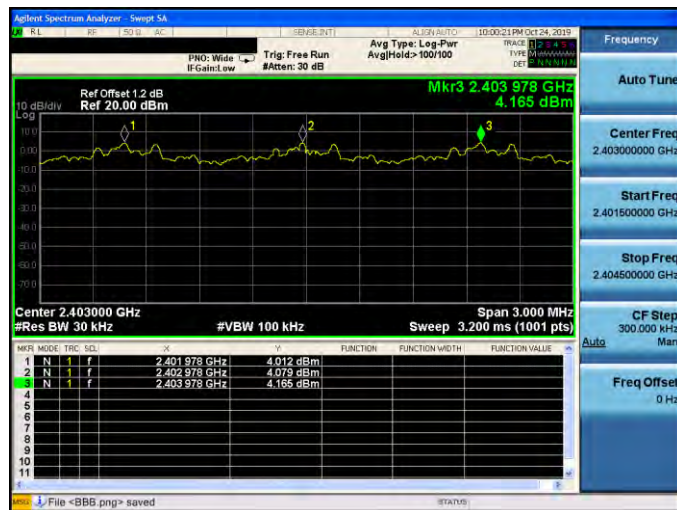


高頻道

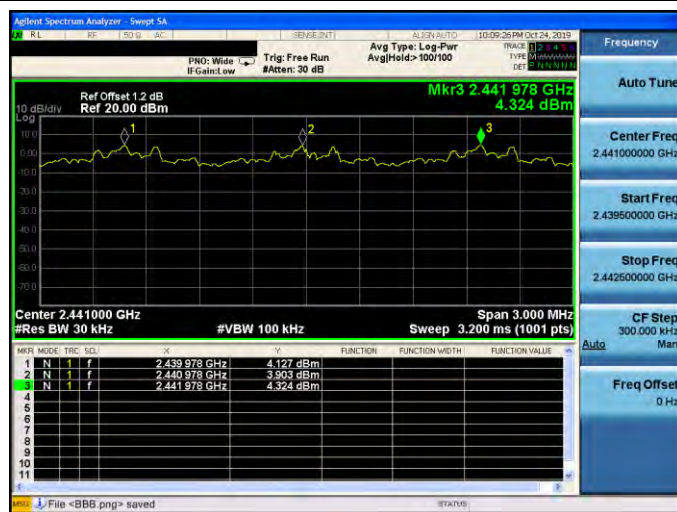


Mode 4: EDR, 8DPSK Continuous TX Mode

低頻道



中頻道



高頻道

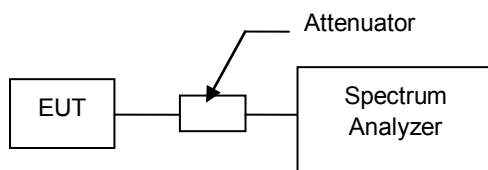


4.9 跳頻系統之任一頻率佔用之平均時間之量測

合格標準：

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.6(1)(A)(a)節之要求，若使用 15 個無重疊之頻道，在 0.4 秒乘以跳頻頻道數之週期內，任一頻道佔用之平均時間不得超過 0.4 秒(複合系統時，關閉跳頻作業狀態檢驗)。

測試架構圖：



測試結果：

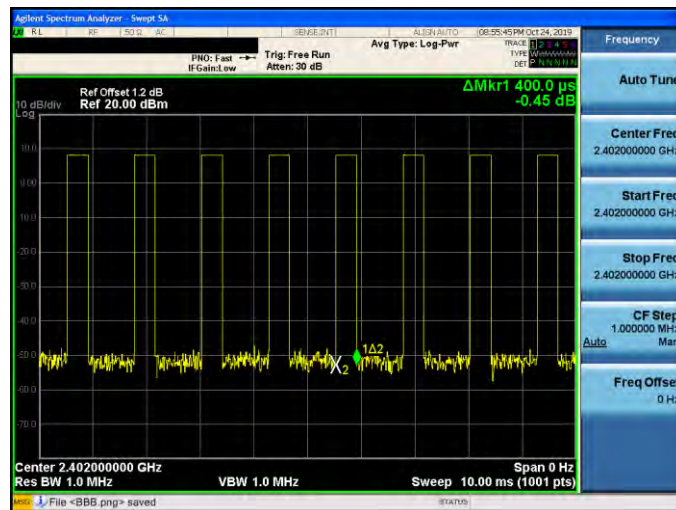
操作模式	: Mode 2: BR, GFSK Continuous TX Mode Mode 4: EDR, 8DPSK Continuous TX Mode
測試結果	: 合格
此項測試進行量測高中低頻道,取其最大值紀錄於此量測結果, 量測之結果數據如下頁所示。	

Mode 2: BR, GFSK Continuous TX Mode	
DH1 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$800/79\text{CH} = 10.13$ (次/秒)
頻道每次佔用之時間(1)	0.400 ms (秒)
週期內頻道佔用之總次數(2)	$31.6 * 10.13 = 320.108$ (次)
週期內佔用的平均時間(1) * (2)	128.043 ms (秒)
LIMIT(msec)	≤ 400
DH3 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$400/79\text{CH} = 5.06$ (次/秒)
頻道每次佔用之時間(1)	1.650 ms (秒)
週期內頻道佔用之總次數(2)	$31.6 * 5.06 = 159.896$ (次)
週期內佔用的平均時間(1) * (2)	263.828 ms (秒)
LIMIT(msec)	≤ 400
DH5 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$266.7/79\text{CH} = 3.38$ (次/秒)
頻道每次佔用之時間(1)	2.900 ms (秒)
週期內頻道佔用之總次數(2)	$31.6 * 3.38 = 106.808$ (次)
週期內佔用的平均時間(1) * (2)	309.743 ms (秒)
LIMIT(msec)	≤ 400

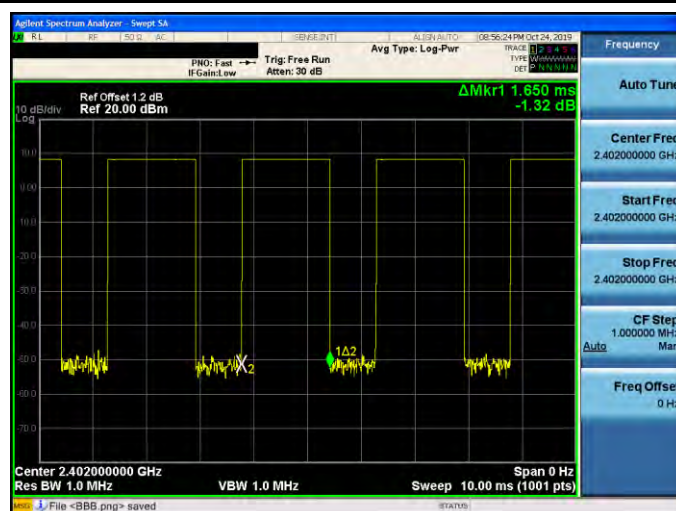
附註: RB=1 MHz ; VB=1 MHz ; SPAN=0 MHz ; Sweep Time=10 msec

Mode 2: BR, GFSK Continuous TX Mode

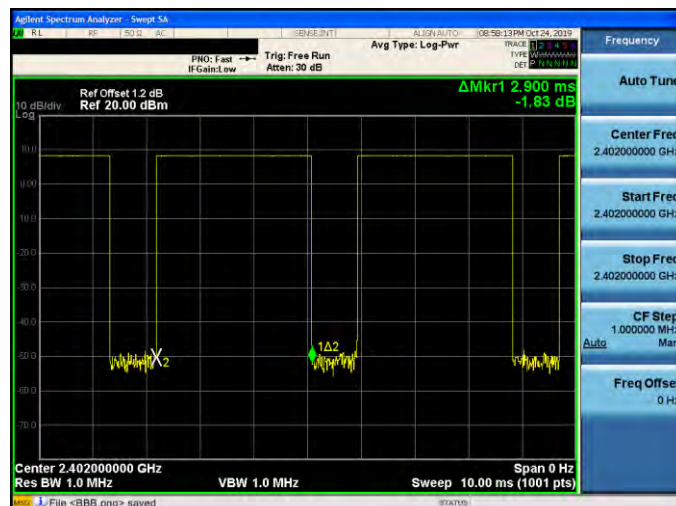
DH1



DH3

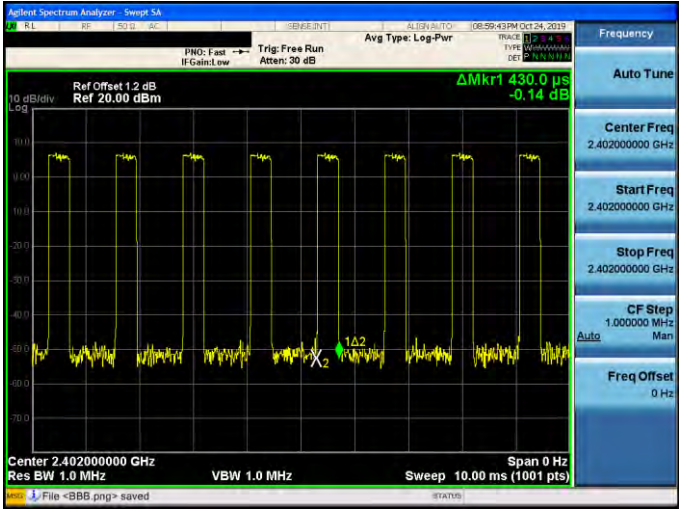
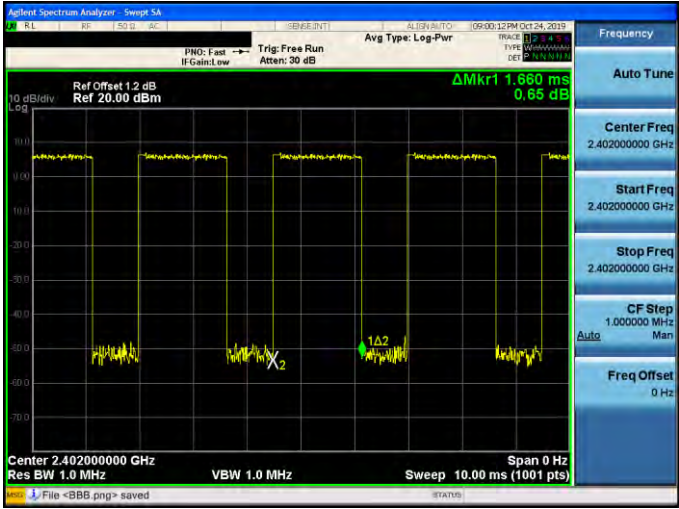
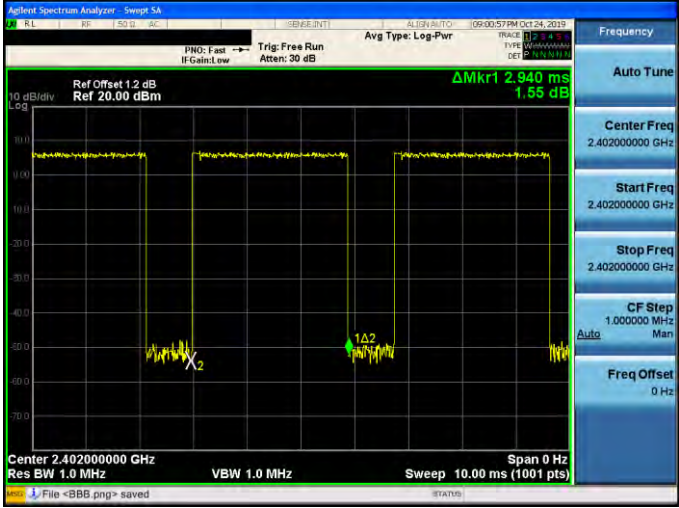


DH5



Mode 4: EDR, 8DPSK Continuous TX Mode	
3DH1 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$800/79\text{CH} = 10.13$ (次/秒)
頻道每次佔用之時間(1)	0.430 ms (秒)
週期內頻道佔用之總次數(2)	$31.6 * 10.13 = 320.108$ (次)
週期內佔用的平均時間(1) * (2)	137.646 ms (秒)
LIMIT(msec)	≤ 400
3DH3 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$400/79\text{CH} = 5.06$ (次/秒)
頻道每次佔用之時間(1)	1.660 ms (秒)
週期內頻道佔用之總次數(2)	$31.6 * 5.06 = 159.896$ (次)
週期內佔用的平均時間(1) * (2)	265.427 ms (秒)
LIMIT(msec)	≤ 400
3DH5 模式	
需量測之週期(秒)	$79\text{CH} * 0.4 = 31.6$ (秒)
待測物每秒跳頻之總次數	1600(藍牙通訊協定標準)
頻道每秒佔用之次數	$266.7/79\text{CH} = 3.38$ (次/秒)
頻道每次佔用之時間(1)	2.940 ms (秒)
週期內頻道佔用之總次數(2)	$31.6 * 3.38 = 106.808$ (次)
週期內佔用的平均時間(1) * (2)	314.016 ms (秒)
LIMIT(msec)	≤ 400

附註: RB=1 MHz ; VB=1 MH 附註:RB=1 MHz ; VB=1 MHz ; SPAN=0 MHz ; Sweep Time=10 msec

Mode 4: EDR, 8DPSK Continuous TX Mode	
3DH1	
3DH3	
3DH5	

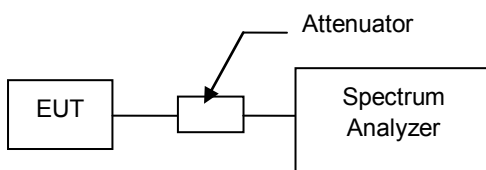
4.10 功率密度之要求

合格標準：

依據NCC低功率射頻電機技術規範(LP0002)之3.10.1.6(2)(B)節之要求，數位調變技術(Digital Modulation Techniques)系統之功率密度，再使用頻率範圍之任意 3 kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8 dBm(複合系統時，關閉跳頻作業狀態檢驗)。

測試架構圖：

測試場地測試配置如圖所示。



測試結果：

操作模式： Mode 5: LE, GFSK Continuous TX Mode Mode 6: 2LE, GFSK Continuous TX Mode			
測試結果： 合格			
操作模式	頻道	量測值 (dBm/3 kHz)	限制值 (dBm/3 kHz)
Mode 5	低頻道	-11.358	≤ 8
	中頻道	-11.291	≤ 8
	高頻道	-11.902	≤ 8
Mode 6	低頻道	-14.782	≤ 8
	中頻道	-14.620	≤ 8
	高頻道	-15.133	≤ 8

Mode 5: LE, GFSK Continuous TX Mode

低頻道

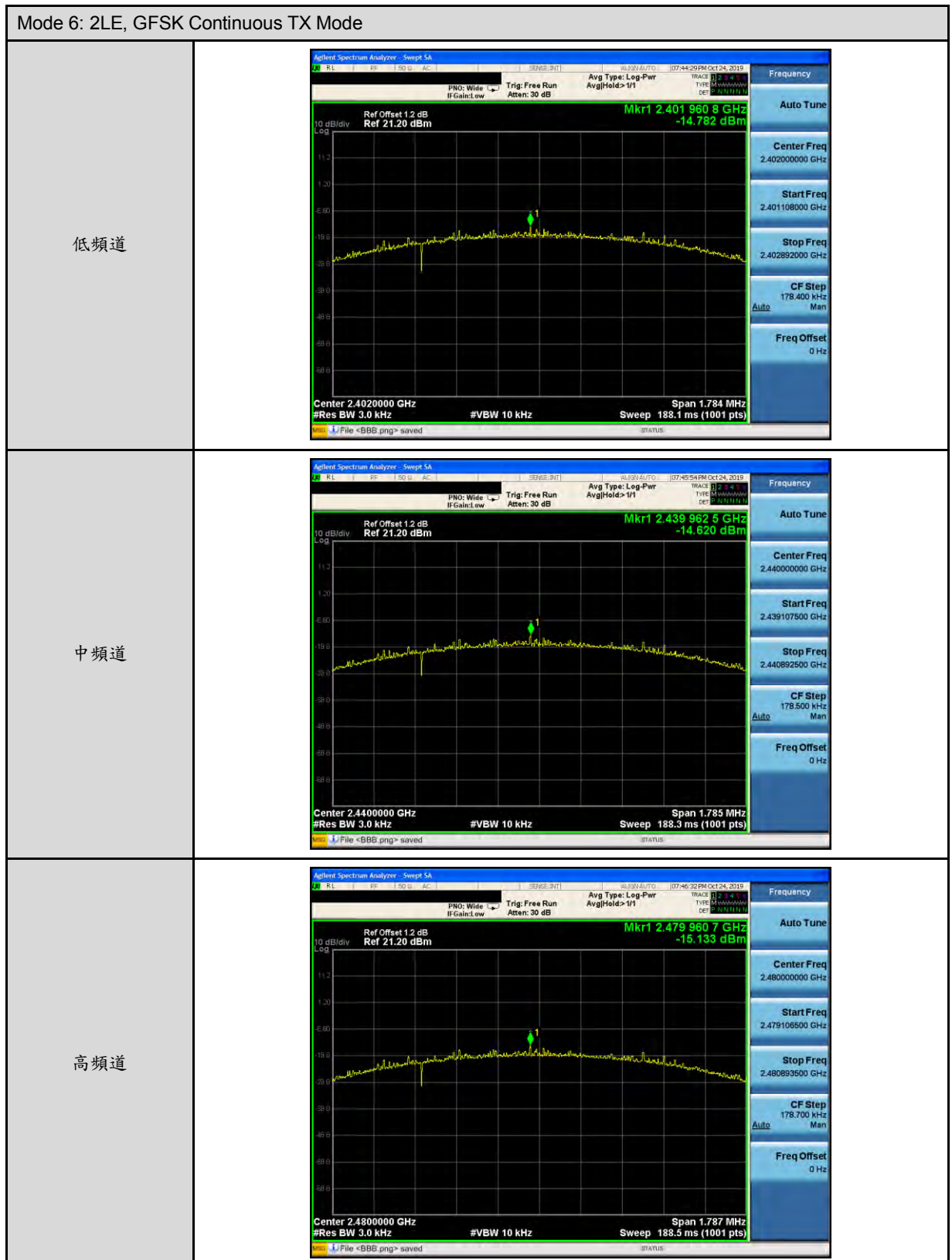


中頻道



高頻道





4.11 天線規格之要求

合格標準:

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.3(3)節之要求，除 3.10.1.3(1)及 3.10.1.3(2)外，使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率限制值。

依據 NCC 低功率射頻電機技術規範(LP0002)之 3.10.1.4 節之要求，天線之規格不受第 2.2 節規定之限制

判定結果:

符合，本產品使用 **FPCB Antenna (廠牌: 歌爾, 型號: 14241728)**，最大增益值 **0 dBi**。

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