

第三代行動通信終端設備(WCDMA)試驗報告

申請廠商	HMD Global Oy Bertel Jungin aukio 9,02600 ESPOO. FINLAND
製造廠商	HMD Global Oy
產品名稱	4G無線藍牙手持式行動電話機
廠牌	NOKIA
型號	TA-1337
試驗件收樣日期	民國109年11月2日
試驗受理日期	民國109年10月29日
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報告發行日期	民國110年1月7日

待測裝置已於台灣檢驗科技股份有限公司射頻實驗中心，依據國家通訊傳播委員會於中華民國一百零七年八月頒佈之第三代行動通信終端設備技術規範【陸地行動 08】(PLMN08)。

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

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

Approved By: _____

楊景嵐



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/A0093	00	Original.	Jan. 07, 2021	Revised By: Yuri Tsai

Note:

1、Disclaimer

Antenna information is provided by the applicant, the test results of this report are applicable to the sample EUT received.

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1 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 3702, 認可範圍PLMN08

認證有效期間 : 109年01月30日起至110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
射頻實驗中心

實驗室地址 : 新北市新北產業園區五工路134號

電話 : 886-2-22993939

傳真 : 886-2-22982698

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2 實驗室之量測不確定度

量測項目	量測不確定度 (擴充不確定度)		
傳導干擾量測	電源線	0.15-30MHz	2.586 dB
輸出功率(傳導方式)	WCDMA		1.19 dB
頻率誤差量測	WCDMA		283 Hz
傳導輻射	150K-40GHz		3.779 dB

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度。

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3 一般資料

3.1 產品描述

產品名稱	4G無線藍牙手持式行動電話機	
型號	TA-1337	
產品商標	NOKIA	
USB Cable	1. Model No: SHQ-A069A, Brand: Saibao 2. Model No: L56B-052000100, Brand: Liqi	
Headset	Model No: NLD-EM300M-07SF, Brand: NEW Leader	
使用電源	3.8 Vdc from Rechargeable Li-polymer Battery or 5 Vdc from AC/DC Adapter	
	Battery:	1. Model No: HQ430, Brand: NOKIA 2. Model No: HQ430, Brand: NOKIA
	Adapter:	Model No: CH-21U, Brand: NOKIA

3.2 射頻特性

發射功率	WCDMA / HSDPA FDD 1: 23.03dBm, Class 3 WCDMA / HSDPA FDD 8: 24.93dBm, Class 3
工作頻率	WCDMA / HSDPA FDD 1頻段: 發射頻率範圍1920MHz至1980MHz 接收頻率範圍2110MHz至2170MHz WCDMA / HSDPA FDD 8頻段: 發射頻率範圍885MHz至915MHz 接收頻率範圍930MHz至960MHz

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3.3 天線資訊

Antenna Type	Brand	Model No. / Part No.	Note
PIFA	Nokia	ANT1	Ant 1
		ANT2	Ant 2

Operating Frequency (MHz)		Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)
WCDMA / HSPA Band I	1920 ~ 1980	-2.0	-2.4
WCDMA / HSPA Band VIII	885 ~ 915	-2.4	-2.8

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4 WCDMA 行動電話機檢測紀錄表(一)

項次	檢驗項目/合格標準	檢驗數據	結果判定
1.	工作頻帶 Band 1 Tx : 1920 MHz - 1980 MHz Rx : 2110 MHz - 2170MHz Band 8 Tx : 885 MHz - 915 MHz Rx : 930 MHz - 960MHz	參考 2.5 節之量測結果	合格
	收發頻率間隔 Band 1 : 190 MHz Band 8 : 45MHz	參考 3.5 節之量測結果	合格
	標稱頻道間隔 : 5 MHz	參考 4.5 節之量測結果	合格
2.	最大發射輸出功率 Power class 1 : Band 1 :33dBm +1.7/-3.7dB Power class 2 : Band 1 :27dBm +1.7/-3.7dB Power class 3 : 24dBm +1.7/-3.7dB Power class 4 : 21dBm +2.7/-2.7dB	參考 5.5 節之量測結果	合格

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3.	頻率誤差 ±0.1 PPM之內	參考 6.5 節之量測結果	合格
4.	功率控制狀態下之最小平均輸出功率 ≤ -50 dBm (in one time slot)	參考 7.5 節之量測結果	合格
5.	佔用頻道頻寬 ≤ 5 MHz	參考 8.5 節之量測結果	合格
6.	發射頻譜波罩 符合表一之一	參考 9.5 節之量測結果	合格
7.	鄰頻道洩漏功率比 鄰頻道偏移 ±5 MHz : 鄰頻道洩漏功率限制33 dB ; 鄰頻道偏移 ±10 MHz : 鄰通道洩漏功率限制43 dB ;	參考 10.5 節之量測結果	合格
8.	混附波輻射 Band 1 : 符合表一之二及表一之三 Band 8 : 符合表一之二及表一之六	參考 11.5 節之量測結果	合格
9.	公眾告警廣播簡訊功能之量測 公眾告警聲響信號功能之量測 公眾告警振動信號功能之量測	參考 12.5 節 / 13.5 節 / 14.5 節 之量測結果	合格
10.	IMEI碼量測	參考 15.3 節之量測結果	合格

註：1. 檢驗項目2,3,4,5,6,7及8項之測試頻道為低、中、高三個頻道，測試方法依據3GPP TS34.121,最新版本之相關規定。

2. 檢驗項目9須於待測設備操作、空閒模式（輻射干擾）及充電模式（電源端傳導干擾）下測試（無則免測）。

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表一之一：

量測濾波器中心 載波頻率偏移量 Δf (MHz)	在最大允許值		量測頻寬
	相對允許值 (dBc)	最大允許值 (dBc)	
2.5 – 3.5	$\left\{ -35 - 15 \cdot \left(\frac{\Delta f}{\text{MHz}} - 2.5 \right) \right\} \text{dBc}$	-71.1	30 kHz
3.5 – 7.5	$\left\{ -35 - 1 \cdot \left(\frac{\Delta f}{\text{MHz}} - 3.5 \right) \right\} \text{dBc}$	-55.8	1 MHz
7.5 – 8.5	$\left\{ -39 - 10 \cdot \left(\frac{\Delta f}{\text{MHz}} - 7.5 \right) \right\} \text{dBc}$	-55.8	1 MHz
8.5 – 12.5	-49 dBc	-55.8	1 MHz

表一之二：

頻率範圍	最大允許值 (Traffic mode)	最大允許值 (Idle mode)	測量方式
$9 \text{ kHz} \leq f < 150 \text{ kHz}$	-36 dBm /1 kHz	----	Conducted
$150 \text{ kHz} \leq f < 30 \text{ MHz}$	-36 dBm /10 kHz	----	Conducted
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	-36 dBm /100 kHz	-57 dBm /100 kHz	Conducted
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	-30 dBm /1 MHz	-47 dBm /1 MHz	Conducted

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表一之三：(Band 1)

頻率範圍	測量頻寬	最大允許值
$462.5 \text{ MHz} \leq f \leq 467.5 \text{ MHz}$	1 MHz	-50 dBm
$703 \text{ MHz} \leq f \leq 803 \text{ MHz}$	1 MHz	-50 dBm
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	-60 dBm
$852 \text{ MHz} \leq f \leq 859 \text{ MHz}$	1 MHz	-50 dBm
$859 \text{ MHz} \leq f \leq 894 \text{ MHz}$	3.84 MHz	-60 dBm
$921 \text{ MHz} \leq f < 925 \text{ MHz}$	100 kHz	-60 dBm
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz 3.84 MHz	-67 dBm -60 dBm
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	100 kHz 3.84 MHz	-79 dBm -60 dBm
$1447 \text{ MHz} \leq f \leq 1467 \text{ MHz}$	1 MHz	-50 dBm
$1452 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	-60 dBm
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	100 kHz 3.84 MHz	-71 dBm -60 dBm
$1839.9 \text{ MHz} \leq f \leq 1879.9 \text{ MHz}$	3.84 MHz	-60 dBm
$1884.5 \text{ MHz} < f < 1915.7 \text{ MHz}$	300 kHz	-41 dBm
$2010 \text{ MHz} < f < 2025 \text{ MHz}$	3.84 MHz	-60 dBm
$2110 \text{ MHz} \leq f \leq 2170 \text{ MHz}$	3.84 MHz	-60 dBm
$2170 \text{ MHz} \leq f \leq 2200 \text{ MHz}$	1 MHz	-50 dBm
$2300 \text{ MHz} \leq f \leq 2400 \text{ MHz}$	3.84 MHz	-60 dBm
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm
$2570 \text{ MHz} \leq f \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm
$3510 \text{ MHz} \leq f \leq 3590 \text{ MHz}$	3.84 MHz	-60 dBm
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm

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表一之六：(Band 8)

頻率範圍	測量頻寬	最大允許值
$462.5 \text{ MHz} \leq f \leq 467.5 \text{ MHz}$	1 MHz	-50 dBm
$703 \text{ MHz} \leq f \leq 803 \text{ MHz}$	1 MHz	-50 dBm
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	-60 dBm
$860 \text{ MHz} \leq f \leq 890 \text{ MHz}$	1 MHz	-37 dBm (註)
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz 3.84 MHz	-67 dBm -60 dBm
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	100 kHz 3.84 MHz	-79 dBm -60 dBm
$1447 \text{ MHz} \leq f \leq 1467 \text{ MHz}$	1 MHz	-50 dBm
$1452 \text{ MHz} \leq f \leq 1496 \text{ MHz}$	3.84 MHz	-60 dBm
$1475.9 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	-60 dBm (註)
$1805 \text{ MHz} < f \leq 1830 \text{ MHz}$	100 kHz 3.84 MHz	-71 dBm -60 dBm
$1830 \text{ MHz} < f \leq 1880 \text{ MHz}$	100 kHz 3.84 MHz	-71 dBm -60 dBm
$1880 \text{ MHz} \leq f \leq 1920 \text{ MHz}$	3.84 MHz	-60 dBm
$1884.5 \text{ MHz} \leq f \leq 1915.7 \text{ MHz}$	300 kHz	-41 dBm (註)
$2010 \text{ MHz} \leq f \leq 2025 \text{ MHz}$	3.84 MHz	-60 dBm
$2110 \text{ MHz} \leq f \leq 2170 \text{ MHz}$	3.84 MHz	-60 dBm
$2170 \text{ MHz} \leq f \leq 2200 \text{ MHz}$	1 MHz	-50 dBm
$2300 \text{ MHz} < f < 2400 \text{ MHz}$	3.84 MHz	-60 dBm
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm
$2570 \text{ MHz} \leq f \leq 2640 \text{ MHz}$	3.84 MHz	-60 dBm
$2640 \text{ MHz} < f \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm
$3510 \text{ MHz} \leq f \leq 3590 \text{ MHz}$	3.84 MHz	-60 dBm
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm

註：僅適用於900 MHz至915 MHz內之傳輸。

測試工程師: 韋佑豪

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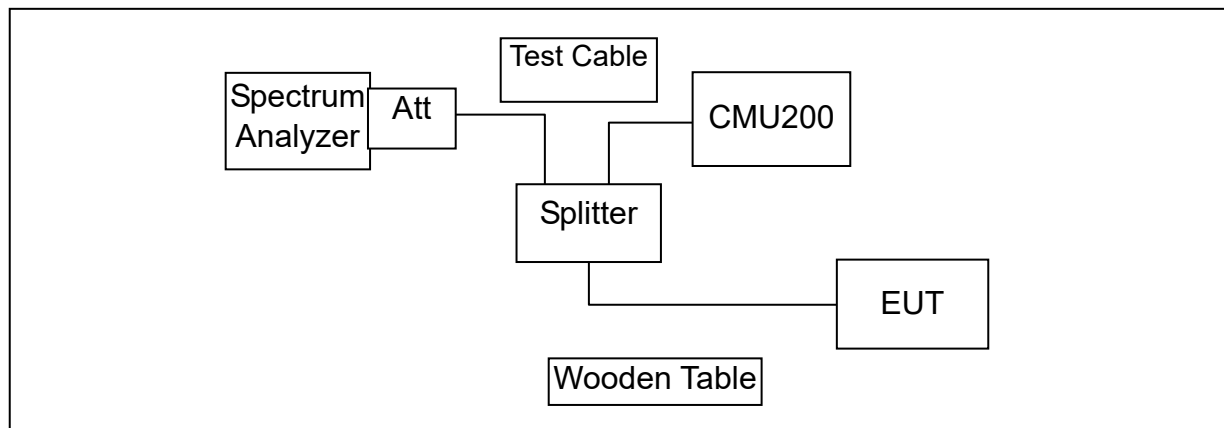
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5 工作頻帶之量測

5.1 適用標準: 參考 PLMN08, 3.1.1 節規定

5.2 測試配置:



5.3 量測儀器設備:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Radio Communication Analyser	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

5.4 測試方法: 參考 3GPP TS34.121 節規定

5.5 量測結果:

WCDMA 頻段 限制值	量測值
Tx : 1920 MHz - 1980 MHz Rx : 2110 MHz - 2170MHz	Tx : 1920 MHz - 1980 MHz Rx : 2110 MHz - 2170MHz
Tx : 885 MHz - 915 MHz Rx : 930 MHz - 960MHz	Tx : 885 MHz - 915 MHz Rx : 930 MHz - 960MHz

請參考下頁測試圖

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測試頻道:低頻道(UARFCN 9613)

2020/11/27 13:47		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report		
End		UE Power : 22.6 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	9613	CH =	1922.600000	MHz
DL Channel & Frequency	10563	CH =	2112.600000	MHz
Frequency Separation	(190.0)MHz			
Band Indicator	Auto	(Off)		
SIB5 Type	Auto			
				Common
				Physical Channel
				Call Processing

測試頻道:中頻道(UARFCN 9750)

2020/11/27 13:52		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report		
End		UE Power : 22.5 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	9750	CH =	1950.000000	MHz
DL Channel & Frequency	10700	CH =	2140.000000	MHz
Frequency Separation	(190.0)MHz			
Band Indicator	Auto	(Off)		
SIB5 Type	Auto			
				Common
				Physical Channel
				Call Processing

測試頻道:高頻道(UARFCN 9887)

2020/11/27 13:56		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report		
End		UE Power : 22.5 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	9887	CH =	1977.400000	MHz
DL Channel & Frequency	10837	CH =	2167.400000	MHz
Frequency Separation	(190.0)MHz			
Band Indicator	Auto	(Off)		
SIB5 Type	Auto			
				Common
				Physical Channel
				Call Processing

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測試頻道:低頻道(UARFCN 2738)

2020/11/27 14:10		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report	Band Cal.	
End		UE Power : 24.1 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	2738	CH =	887.600000	MHz
DL Channel & Frequency	2963	CH =	932.600000	MHz
Frequency Separation	(45.0)MHz			
Band Indicator	Auto	(Band VIII)		
SIB5 Type	Auto			

測試頻道:中頻道(UARFCN 2801)

2020/11/27 14:20		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report	Band Cal.	
End		UE Power : 24.1 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	2801	CH =	900.200000	MHz
DL Channel & Frequency	3026	CH =	945.200000	MHz
Frequency Separation	(45.0)MHz			
Band Indicator	Auto	(Band VIII)		
SIB5 Type	Auto			

測試頻道:高頻道(UARFCN 2863)

2020/11/27 14:24		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report	Band Cal.	
End		UE Power : 24.1 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	2863	CH =	912.600000	MHz
DL Channel & Frequency	3088	CH =	957.600000	MHz
Frequency Separation	(45.0)MHz			
Band Indicator	Auto	(Band VIII)		
SIB5 Type	Auto			

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6 收發頻率間隔之量測

6.1 適用標準:

參考 PLMN08, 3.1.1 節規定

6.2 測試配置:

參考本報告 2.2 節配置方法

6.3 量測儀器設備:

參考本報告 2.3 節

6.4 測試方法:

參考 3GPP TS34.121 節規定

6.5 量測結果:

測試頻段	量測值	限制值
WCDMA B1	190 MHz	190 MHz
WCDMA B8	45 MHz	45 MHz

請參考下頁測試圖

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測試頻道:低頻道(UARFCN 9613)

2020/11/27 13:47		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report		
End		UE Power : 22.6 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	9613	CH =	1922.600000	MHz
DL Channel & Frequency	10563	CH =	2112.600000	MHz
Frequency Separation	(190.0)MHz			
Band Indicator	Auto	(Off)		
SIB5 Type	Auto			
				Common
				Physical Channel
				Call Processing

測試頻道:中頻道(UARFCN 9750)

2020/11/27 13:52		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report		
End		UE Power : 22.5 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	9750	CH =	1950.000000	MHz
DL Channel & Frequency	10700	CH =	2140.000000	MHz
Frequency Separation	(190.0)MHz			
Band Indicator	Auto	(Off)		
SIB5 Type	Auto			
				Common
				Physical Channel
				Call Processing

測試頻道:高頻道(UARFCN 9887)

2020/11/27 13:56		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report		
End		UE Power : 22.5 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	9887	CH =	1977.400000	MHz
DL Channel & Frequency	10837	CH =	2167.400000	MHz
Frequency Separation	(190.0)MHz			
Band Indicator	Auto	(Off)		
SIB5 Type	Auto			
				Common
				Physical Channel
				Call Processing

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測試頻道:低頻道(UARFCN 2738)

2020/11/27 14:10		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report	Band Cal.	
End		UE Power : 24.1 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	2738	CH =	887.600000	MHz
DL Channel & Frequency	2963	CH =	932.600000	MHz
Frequency Separation	(45.0)MHz			
Band Indicator	Auto	(Band VIII)		
SIB5 Type	Auto			

測試頻道:中頻道(UARFCN 2801)

2020/11/27 14:20		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report	Band Cal.	
End		UE Power : 24.1 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	2801	CH =	900.200000	MHz
DL Channel & Frequency	3026	CH =	945.200000	MHz
Frequency Separation	(45.0)MHz			
Band Indicator	Auto	(Band VIII)		
SIB5 Type	Auto			

測試頻道:高頻道(UARFCN 2863)

2020/11/27 14:24		Loop Mode 1		Phone-1
<Fundamental Measurement> Output Main				W-CDMA
Parameter	Fundamental	UE Report	Band Cal.	
End		UE Power : 24.1 dBm		Parameter
Common Parameter	Item List	Standard		
Call Processing	On	Test Loop Mode	Mode 1	
Frequency				
UL Channel & Frequency	2863	CH =	912.600000	MHz
DL Channel & Frequency	3088	CH =	957.600000	MHz
Frequency Separation	(45.0)MHz			
Band Indicator	Auto	(Band VIII)		
SIB5 Type	Auto			

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7 標稱頻道間隔之量測

7.1 適用標準:

參考 PLMN08, 3.1.1 節規定

7.2 測試配置:

參考本報告 2.2 節配置方法

7.3 量測儀器設備:

參考本報告 2.3 節

7.4 測試方法:

參考 3GPP TS34.121 節規定

7.5 量測結果:

測試頻段	量測值	限制值
WCDMA	5 MHz	5 MHz

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8 最大發射輸出功率之量測

8.1 適用標準:

參考 PLMN08, 3.1.1 節規定

8.2 測試配置:

參考本報告 2.2 節配置方法

8.3 量測儀器設備:

參考本報告 2.3 節

8.4 測試方法:

參考 3GPP TS34.121, 5.2.4 節規定

8.5 量測結果:

WCDMA測試頻道	最大發射輸出功率: (Average)(dBm)	容許度: 24dBm+1/-3dB
低頻道(UARFCN 9613)	23.03	21dBm ~ 25dBm
中頻道(UARFCN 9750)	22.92	21dBm ~ 25dBm
高頻道(UARFCN 9887)	22.97	21dBm ~ 25dBm
低頻道(UARFCN 2738)	24.56	21dBm ~ 25dBm
中頻道(UARFCN 2801)	24.53	21dBm ~ 25dBm
高頻道(UARFCN 2863)	24.93	21dBm ~ 25dBm

參考測試圖。

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測試頻道: 低頻道(UARFCN 9613)

2020/11/27 13:42		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter	Fundamental	UE Report			
End		UE Power : 22.6 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
	Avg.	Max	Min		
TX Power	23.03	23.03	23.03	dBm	
	200.9	200.9	200.9	mW	
Filtered Power	22.83	22.83	22.83	dBm	
	191.8	191.8	191.8	mW	
Frequency Error		(Meas. Count : 1/ 1)			
	Avg.				
Carrier Frequency		1922.600008 MHz			
	Avg.	Max	Min		
Carrier Frequency Error	0.0082	0.0082	0.0082	kHz	
	0.00	0.00	0.00	ppm	
Occupied Bandwidth View		(Meas. Count : 1/ 1)			
OBW		4.095 MHz			
Upper Frequency		2.048 MHz			
Lower Frequency		-2.048 MHz			
Center(Upper+Lower)/2		1922.600 MHz			
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			

測試頻道: 中頻道(UARFCN 9750)

2020/11/27 13:53		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter	Fundamental	UE Report		Band Cal.	
End		UE Power : 22.5 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
	Avg.	Max	Min		
TX Power	22.92	22.92	22.92	dBm	
	195.9	195.9	195.9	mW	
Filtered Power	22.73	22.73	22.73	dBm	
	187.3	187.3	187.3	mW	
Frequency Error		(Meas. Count : 1/ 1)			
	Avg.				
Carrier Frequency		1950.000005 MHz			
	Avg.	Max	Min		
Carrier Frequency Error	0.0047	0.0047	0.0047	kHz	
	0.00	0.00	0.00	ppm	
Occupied Bandwidth View		(Meas. Count : 1/ 1)			
OBW		4.118 MHz			
Upper Frequency		2.059 MHz			
Lower Frequency		-2.059 MHz			
Center(Upper+Lower)/2		1950.000 MHz			
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			

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測試頻道: 高頻道(UARFCN 9887)

2020/11/27 13:58		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power : 22.5 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)		T	
		Avg. Max Min		A Power	
TX Power		22.97 22.97 22.97 dBm		G Measurement	
		198.0 198.0 198.0 mW		T	
Filtered Power		22.78 22.78 22.78 dBm		A Frequency	
		189.6 189.6 189.6 mW		G Error	
Frequency Error		(Meas. Count : 1/ 1)		T	
		Avg.		A Occupied	
Carrier Frequency		1977.399994 MHz		G Bandwidth	
		Avg. Max Min		T	
Carrier Frequency Error		-0.0061 -0.0061 -0.0061 kHz		A Spectrum	
		0.00 0.00 0.00 ppm		G Emission	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T	
OBW		4.095 MHz		A Modulation	
Upper Frequency		2.036 MHz		G Analysis	
Lower Frequency		-2.059 MHz		T	
Center(Upper+Lower)/2		1977.389 MHz		A Peak	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)		G Code Domain	
				Error	
				1 2 3 4	

測試頻道: 低頻道(UARFCN 2738)

2020/11/27 14:18		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power : 24.1 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)		T	
		Avg. Max Min		A Power	
TX Power		24.56 24.56 24.56 dBm		G Measurement	
		285.9 285.9 285.9 mW		T	
Filtered Power		24.35 24.35 24.35 dBm		A Frequency	
		272.6 272.6 272.6 mW		G Error	
Frequency Error		(Meas. Count : 1/ 1)		T	
		Avg.		A Occupied	
Carrier Frequency		887.600000 MHz		G Bandwidth	
		Avg. Max Min		T	
Carrier Frequency Error		-0.0002 -0.0002 -0.0002 kHz		A Spectrum	
		0.00 0.00 0.00 ppm		G Emission	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T	
OBW		4.129 MHz		A Modulation	
Upper Frequency		2.081 MHz		G Analysis	
Lower Frequency		-2.048 MHz		T	
Center(Upper+Lower)/2		887.617 MHz		A Peak	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)		G Code Domain	
				Error	
				1 2 3 4	

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測試頻道: 中頻道(UARFCN 2801)

2020/11/27 14:21		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter	Fundamental	UE Report			
End		UE Power : 24.1 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
	Avg.	Max	Min		
TX Power	24.53	24.53	24.53	dBm	
	283.6	283.6	283.6	mW	
Filtered Power	24.31	24.31	24.31	dBm	
	270.0	270.0	270.0	mW	
Frequency Error		(Meas. Count : 1/ 1)			
	Avg.				
Carrier Frequency	900.200000	MHz			
	Avg.	Max	Min		
Carrier Frequency Error	-0.0001	-0.0001	-0.0001	kHz	
	0.00	0.00	0.00	ppm	
Occupied Bandwidth View		(Meas. Count : 1/ 1)			
OBW	4.118	MHz			
Upper Frequency	2.059	MHz			
Lower Frequency	-2.059	MHz			
Center (Upper+Lower)/2	900.200	MHz			
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			

測試頻道: 高頻道(UARFCN 2863)

2020/11/27 14:25		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter	Fundamental	UE Report			
End		UE Power : 24.1 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
	Avg.	Max	Min		
TX Power	24.93	24.93	24.93	dBm	
	311.1	311.1	311.1	mW	
Filtered Power	24.74	24.74	24.74	dBm	
	297.5	297.5	297.5	mW	
Frequency Error		(Meas. Count : 1/ 1)			
	Avg.				
Carrier Frequency	912.599999	MHz			
	Avg.	Max	Min		
Carrier Frequency Error	-0.0015	-0.0015	-0.0015	kHz	
	0.00	0.00	0.00	ppm	
Occupied Bandwidth View		(Meas. Count : 1/ 1)			
OBW	4.118	MHz			
Upper Frequency	2.048	MHz			
Lower Frequency	-2.070	MHz			
Center (Upper+Lower)/2	912.589	MHz			
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			

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9 頻率誤差之量測

9.1 適用標準:

參考 PLMN08, 3.1.1 節規定

9.2 測試配置:

參考本報告 2.2 節配置方法

9.3 量測儀器設備:

參考本報告 2.3 節

9.4 測試方法:

參考 3GPP TS34.12, 5.3.4 節規定

9.5 量測結果:

測試頻道	量測值 Hz	限制值 ± 0.1 PPM
低頻道(UARFCN 9613)	0.0082	+/- 192 Hz
中頻道(UARFCN 9750)	0.0047	+/- 195 Hz
高頻道(UARFCN 9887)	-0.0061	+/- 197 Hz
低頻道(UARFCN 2738)	-0.0002	+/- 192 Hz
中頻道(UARFCN 2801)	-0.0001	+/- 195 Hz
高頻道(UARFCN 2863)	-0.0015	+/- 197 Hz

參考測試圖。

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測試頻道: 低頻道(UARFCN 9613)

2020/11/27 13:44		Loop Mode 1		Phone-1 W-CDMA	
<Fundamental Measurement> Output Main					
Parameter		Fundamental		UE Report	
End		UE Power : 22.6 dBm		Fundamental	
Frequency Error		(Meas. Count : 1/ 1)		T A Power Measurement	
Carrier Frequency		Avg. 1922.600008 MHz		T A Frequency Error	
Carrier Frequency Error		Avg. 0.0082 kHz Max 0.0082 kHz Min 0.0082 kHz 0.00 ppm		T A Occupied Bandwidth	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T A Spectrum Emission Mask	
OBW		4.095 MHz		T A Adjacent Channel Power	
Upper Frequency		2.048 MHz		T A Modulation Analysis	
Lower Frequency		-2.048 MHz		T A Peak Code Domain Error	
Center (Upper+Lower)/2		1922.600 MHz		1 2 3 4	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			
Template Judgment		Judgment Pass			
Adjacent Channel Power		(Meas. Count : 1/ 1)			
Leakage power due to Modulation		Power			
Offset Freq.		Avg. Max Min			

測試頻道: 中頻道(UARFCN 9750)

2020/11/27 13:55		Loop Mode 1		Phone-1 W-CDMA	
<Fundamental Measurement> Output Main					
Parameter		Fundamental		UE Report	
End		UE Power : 22.4 dBm		Fundamental	
Frequency Error		(Meas. Count : 1/ 1)		T A Power Measurement	
Carrier Frequency		Avg. 1950.000005 MHz		T A Frequency Error	
Carrier Frequency Error		Avg. 0.0047 kHz Max 0.0047 kHz Min 0.0047 kHz 0.00 ppm		T A Occupied Bandwidth	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T A Spectrum Emission Mask	
OBW		4.118 MHz		T A Adjacent Channel Power	
Upper Frequency		2.059 MHz		T A Modulation Analysis	
Lower Frequency		-2.059 MHz		T A Peak Code Domain Error	
Center (Upper+Lower)/2		1950.000 MHz		1 2 3 4	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			
Template Judgment		Judgment Pass			
Adjacent Channel Power		(Meas. Count : 1/ 1)			
Leakage power due to Modulation		Power			
Offset Freq.		Avg. Max Min			

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測試頻道: 高頻道(UARFCN 9887)

2020/11/27 14:00		Loop Mode 1		Phone-1 W-CDMA	
<Fundamental Measurement> Output Main					
Parameter		Fundamental		UE Report	
End		UE Power : 22.5 dBm		Fundamental	
Frequency Error		(Meas. Count : 1/ 1)		T A Power Measurement	
Carrier Frequency		Avg. 1977.399994 MHz		T A Frequency Error	
Carrier Frequency Error		Avg. Max Min -0.0061 -0.0061 -0.0061 kHz 0.00 0.00 0.00 ppm		T A Occupied Bandwidth	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T A Spectrum Emission Mask	
OBW		4.095 MHz		T A Adjacent Channel Power	
Upper Frequency		2.036 MHz		T A Modulation Analysis	
Lower Frequency		-2.059 MHz		T A Peak Code Domain Error	
Center (Upper+Lower)/2		1977.389 MHz		1 2 3 4	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			
Template Judgment		Pass			
Adjacent Channel Power		(Meas. Count : 1/ 1)			
Leakage power due to Modulation					
Offset Freq.		Power			
Avg.		Max Min			

測試頻道: 低頻道(UARFCN 2738)

2020/11/27 14:19		Loop Mode 1		Phone-1 W-CDMA	
<Fundamental Measurement> Output Main					
Parameter		Fundamental		UE Report	
End		UE Power : 24.1 dBm		Fundamental	
Frequency Error		(Meas. Count : 1/ 1)		T A Power Measurement	
Carrier Frequency		Avg. 887.600000 MHz		T A Frequency Error	
Carrier Frequency Error		Avg. Max Min -0.0002 -0.0002 -0.0002 kHz 0.00 0.00 0.00 ppm		T A Occupied Bandwidth	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T A Spectrum Emission Mask	
OBW		4.129 MHz		T A Adjacent Channel Power	
Upper Frequency		2.081 MHz		T A Modulation Analysis	
Lower Frequency		-2.048 MHz		T A Peak Code Domain Error	
Center (Upper+Lower)/2		887.617 MHz		1 2 3 4	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			
Template Judgment		Pass			
Adjacent Channel Power		(Meas. Count : 1/ 1)			
Leakage power due to Modulation					
Offset Freq.		Power			
Avg.		Max Min			

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測試頻道: 中頻道(UARFCN 2801)

2020/11/27 14:22		Loop Mode 1		Phone-1 W-CDMA	
<Fundamental Measurement> Output Main					
Parameter		Fundamental		UE Report	
End		UE Power : 24.1 dBm		Fundamental	
Frequency Error		(Meas. Count : 1/ 1)		T	
Carrier Frequency		Avg. 900.200000 MHz		A Power Measurement	
Carrier Frequency Error		Avg. Max Min -0.0001 -0.0001 -0.0001 kHz		T Frequency Error	
		0.00 0.00 0.00 ppm		A Occupied Bandwidth	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T Spectrum Emission Mask	
OBW		4.118 MHz		A Adjacent Channel Power	
Upper Frequency		2.059 MHz		T Modulation Analysis	
Lower Frequency		-2.059 MHz		A Peak Code Domain Error	
Center (Upper+Lower)/2		900.200 MHz		G	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)		1 2 3 4	
Template Judgment		Judgment Pass			
Adjacent Channel Power		(Meas. Count : 1/ 1)			
Leakage power due to Modulation		Power			
Offset Freq.		Avg. Max Min			

測試頻道: 高頻道(UARFCN 2863)

2020/11/27 14:26		Loop Mode 1		Phone-1 W-CDMA	
<Fundamental Measurement> Output Main					
Parameter		Fundamental		UE Report	
End		UE Power : 24.2 dBm		Fundamental	
Frequency Error		(Meas. Count : 1/ 1)		T	
Carrier Frequency		Avg. 912.599999 MHz		A Power Measurement	
Carrier Frequency Error		Avg. Max Min -0.0015 -0.0015 -0.0015 kHz		T Frequency Error	
		0.00 0.00 0.00 ppm		A Occupied Bandwidth	
Occupied Bandwidth View		(Meas. Count : 1/ 1)		T Spectrum Emission Mask	
OBW		4.118 MHz		A Adjacent Channel Power	
Upper Frequency		2.048 MHz		T Modulation Analysis	
Lower Frequency		-2.070 MHz		A Peak Code Domain Error	
Center (Upper+Lower)/2		912.589 MHz		G	
Spectrum Emission Mask View		(Meas. Count : 1/ 1)		1 2 3 4	
Template Judgment		Judgment Pass			
Adjacent Channel Power		(Meas. Count : 1/ 1)			
Leakage power due to Modulation		Power			
Offset Freq.		Avg. Max Min			

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10 功率控制狀態下之最小平均輸出功率之量測

10.1 適用標準:

參考 PLMN08, 3.1.1 節規定

10.2 測試配置:

參考本報告 2.2 節配置方法

10.3 量測儀器設備:

參考本報告 2.3 節

10.4 測試方法:

參考 3GPP TS34.121, 5.4.3.4 節規定

10.5 量測結果:

WCDMA測試頻道	最小平均輸出功率 (dBm)	限制值
低頻道(UARFCN 9613)	-54.28	$\leq$ -50 dBm
中頻道(UARFCN 9750)	-54.22	$\leq$ -50 dBm
高頻道(UARFCN 9887)	-54.05	$\leq$ -50 dBm
低頻道(UARFCN 2738)	-54.83	$\leq$ -50 dBm
中頻道(UARFCN 2801)	-55.34	$\leq$ -50 dBm
高頻道(UARFCN 2863)	-55.52	$\leq$ -50 dBm

叢訊功率時間關係圖:參考測試圖。

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測試頻道: 低頻道(UARFCN 9613)

2020/11/27 14:07		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power : -54.3 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
		Avg.	Max	Min	
TX Power		-54.28	-54.28	-54.28	dBm
		3.735	3.735	3.735	nW
Filtered Power		-54.51	-54.51	-54.51	dBm
		3.539	3.539	3.539	nW
Frequency Error		(Meas. Count : 1/ 1)			
		Avg.			
Carrier Frequency		1922.600003	MHz		
		Avg.	Max	Min	
Carrier Frequency Error		0.0030	0.0030	0.0030	kHz
		0.00	0.00	0.00	ppm
Occupied Bandwidth		(Meas. Count : 1/ 1)			
OBW		11.981	MHz		
Upper Frequency		5.985	MHz		
Lower Frequency		-5.996	MHz		
Center(Upper+Lower)/2		1922.594	MHz		
Spectrum Emission Mask		(Meas. Count : 1/ 1)			

Power Measurement

Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Power Measurement

Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Power Measurement

Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Power Measurement

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Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Power Measurement

Frequency Error

Occupied

測試頻道: 中頻道(UARFCN 9750)

2020/11/27 14:06		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power : -54.3 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
		Avg. Max Min			
TX Power		-54.22 -54.22 -54.22 dBm			
		3.785 3.785 3.785 nW			
Filtered Power		-54.44 -54.44 -54.44 dBm			
		3.595 3.595 3.595 nW			
Frequency Error		(Meas. Count : 1/ 1)			
		Avg.			
Carrier Frequency		1950.000001 MHz			
		Avg. Max Min			
Carrier Frequency Error		0.0005 0.0005 0.0005 kHz			
		0.00 0.00 0.00 ppm			
Occupied Bandwidth		(Meas. Count : 1/ 1)			
OBW		11.948 MHz			
Upper Frequency		5.974 MHz			
Lower Frequency		-5.974 MHz			
Center (Upper+Lower) /2		1950.000 MHz			
Spectrum Emission Mask		(Meas. Count : 1/ 1)			

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測試頻道: 高頻道(UARFCN 9887)

2020/11/27 14:02

Loop Mode 1

Phone-1
W-CDMA

<Fundamental Measurement> Output Main

Parameter	Fundamental	UE Report											
End		UE Power : -54.1 dBm											
Power Measurement		(Meas. Count : 1/ 1)											
	<table><thead><tr><th>Avg.</th><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>-54.05</td><td>-54.05</td><td>-54.05</td></tr><tr><td>3.938</td><td>3.938</td><td>3.938</td></tr></tbody></table>	Avg.	Max	Min	-54.05	-54.05	-54.05	3.938	3.938	3.938	<table><tbody><tr><td>dBm</td></tr><tr><td>nW</td></tr></tbody></table>	dBm	nW
Avg.	Max	Min											
-54.05	-54.05	-54.05											
3.938	3.938	3.938											
dBm													
nW													
TX Power													
	<table><thead><tr><th>Avg.</th><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>-54.26</td><td>-54.26</td><td>-54.26</td></tr><tr><td>3.746</td><td>3.746</td><td>3.746</td></tr></tbody></table>	Avg.	Max	Min	-54.26	-54.26	-54.26	3.746	3.746	3.746	<table><tbody><tr><td>dBm</td></tr><tr><td>nW</td></tr></tbody></table>	dBm	nW
Avg.	Max	Min											
-54.26	-54.26	-54.26											
3.746	3.746	3.746											
dBm													
nW													
Filtered Power													
Frequency Error		(Meas. Count : 1/ 1)											
	<table><thead><tr><th>Avg.</th></tr></thead><tbody><tr><td>1977.400005</td></tr></tbody></table>	Avg.	1977.400005	MHz									
Avg.													
1977.400005													
Carrier Frequency													
	<table><thead><tr><th>Avg.</th><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>0.0050</td><td>0.0050</td><td>0.0050</td></tr><tr><td>0.00</td><td>0.00</td><td>0.00</td></tr></tbody></table>	Avg.	Max	Min	0.0050	0.0050	0.0050	0.00	0.00	0.00	<table><tbody><tr><td>kHz</td></tr><tr><td>ppm</td></tr></tbody></table>	kHz	ppm
Avg.	Max	Min											
0.0050	0.0050	0.0050											
0.00	0.00	0.00											
kHz													
ppm													
Carrier Frequency Error													
Occupied Bandwidth		(Meas. Count : 1/ 1)											
	11.925	MHz											
OBW													
	5.974	MHz											
Upper Frequency													
	-5.951	MHz											
Lower Frequency													
Center(Upper+Lower)/2	1977.411	MHz											
Spectrum Emission Mask		(Meas. Count : 1/ 1)											

T	Power		
G	Measurement		
T	Frequency		
G	Error		
T	Occupied		
G	Bandwidth		
T	Spectrum		
A	Emission		
G	Mask		
T	Adjacent		
A	Channel		
G	Power		
T	Modulation		
G	Analysis		
T	Peak		
A	Code Domain		
G	Error		
1	2	3	4

測試頻道: 低頻道(UARFCN 2738)

2020/11/27 14:27		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power :		-54.1 dBm	
Power Measurement		(Meas. Count :		1/ 1)	
		Avg.		Max	
TX Power		-54.83		-54.83	
		3.289		3.289	
Filtered Power		-55.06		-55.06	
		3.117		3.117	
Frequency Error		(Meas. Count :		1/ 1)	
		Avg.			
Carrier Frequency		887.599999		MHz	
		Avg.		Max	
Carrier Frequency Error		-0.0006		-0.0006	
		0.00		0.00	
Occupied Bandwidth		(Meas. Count :		1/ 1)	
OBW		11.981		MHz	
Upper Frequency		5.985		MHz	
Lower Frequency		-5.996		MHz	
Center(Upper+Lower)/2		887.594		MHz	
Spectrum Emission Mask		(Meas. Count :		1/ 1)	

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測試頻道: 中頻道(UARFCN 2801)

2020/11/27 14:27		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power :		-54.5 dBm	
Power Measurement		(Meas. Count :		1/ 1)	
		Avg.		Max	
TX Power		-55.34		-55.34	
		2.926		2.926	
Filtered Power		-55.58		-55.58	
		2.787		2.787	
Frequency Error		(Meas. Count :		1/ 1)	
		Avg.			
Carrier Frequency		900.200003		MHz	
		Avg.		Max	
Carrier Frequency Error		0.0032		0.0032	
		0.00		0.00	
Occupied Bandwidth		(Meas. Count :		1/ 1)	
OBW		12.049		MHz	
Upper Frequency		6.041		MHz	
Lower Frequency		-6.008		MHz	
Center (Upper+Lower) /2		900.217		MHz	
Spectrum Emission Mask		(Meas. Count :		1/ 1)	

測試頻道: 高頻道(UARFCN 2863)

2020/11/27 14:26		Loop Mode 1		Phone-1	
<Fundamental Measurement> Output Main				W-CDMA	
Parameter		Fundamental		UE Report	
End		UE Power : -54.7 dBm		Fundamental	
Power Measurement		(Meas. Count : 1/ 1)			
		Avg. Max Min			
TX Power		-55.52 -55.52 -55.52 dBm			
		2.806 2.806 2.806 nW			
Filtered Power		-55.75 -55.75 -55.75 dBm			
		2.662 2.662 2.662 nW			
Frequency Error		(Meas. Count : 1/ 1)			
		Avg.			
Carrier Frequency		912.600007 MHz			
		Avg. Max Min			
Carrier Frequency Error		0.0068 0.0068 0.0068 kHz			
		0.01 0.01 0.01 ppm			
Occupied Bandwidth View		(Meas. Count : 1/ 1)			
OBW		12.049 MHz			
Upper Frequency		6.008 MHz			
Lower Frequency		-6.041 MHz			
Center(Upper+Lower)/2		912.583 MHz			
Spectrum Emission Mask View		(Meas. Count : 1/ 1)			

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11 佔用頻道寬度之量測

11.1 適用標準:

參考 PLMN08, 3.1.1 節規定

11.2 測試配置:

參考本報告 2.2 節配置方法

11.3 量測儀器設備:

參考本報告 2.3 節

11.4 測試方法:

參考 3GPP TS34.121, 5.8.4 節規定

11.5 量測結果:

WCDMA測試頻道	佔用頻道寬度 (MHz)	限制值
低頻道(UARFCN 9613)	4.095	5MHz
中頻道(UARFCN 9750)	4.118	5MHz
高頻道(UARFCN 9887)	4.095	5MHz
低頻道(UARFCN 2738)	4.129	5MHz
中頻道(UARFCN 2801)	4.118	5MHz
高頻道(UARFCN 2863)	4.118	5MHz

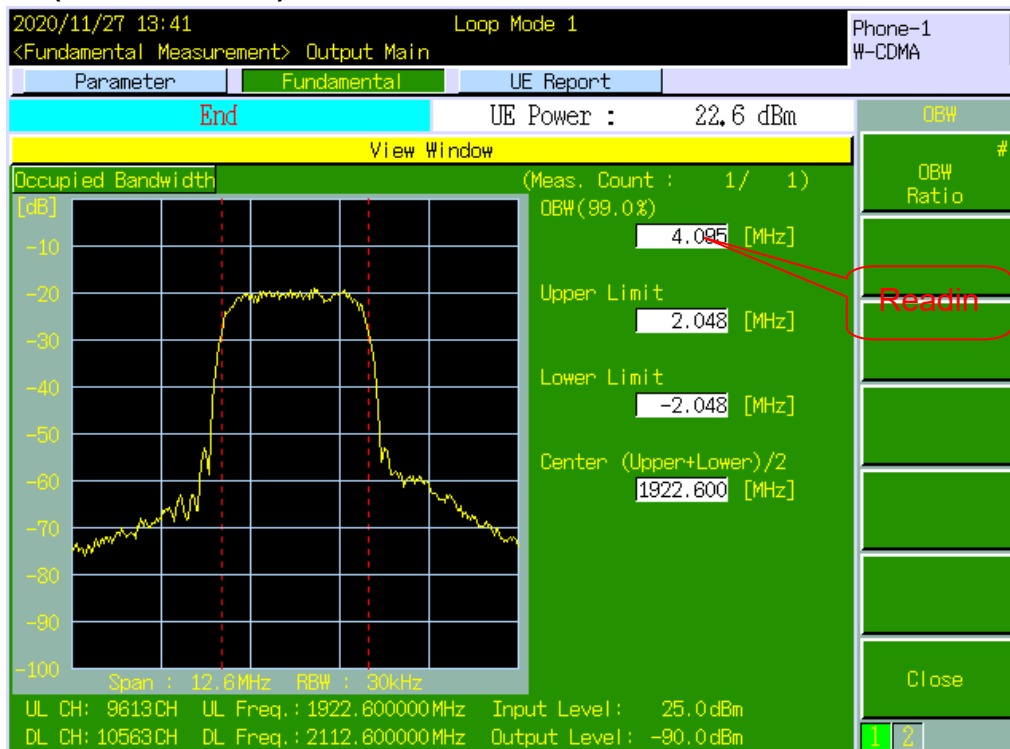
參考測試圖。

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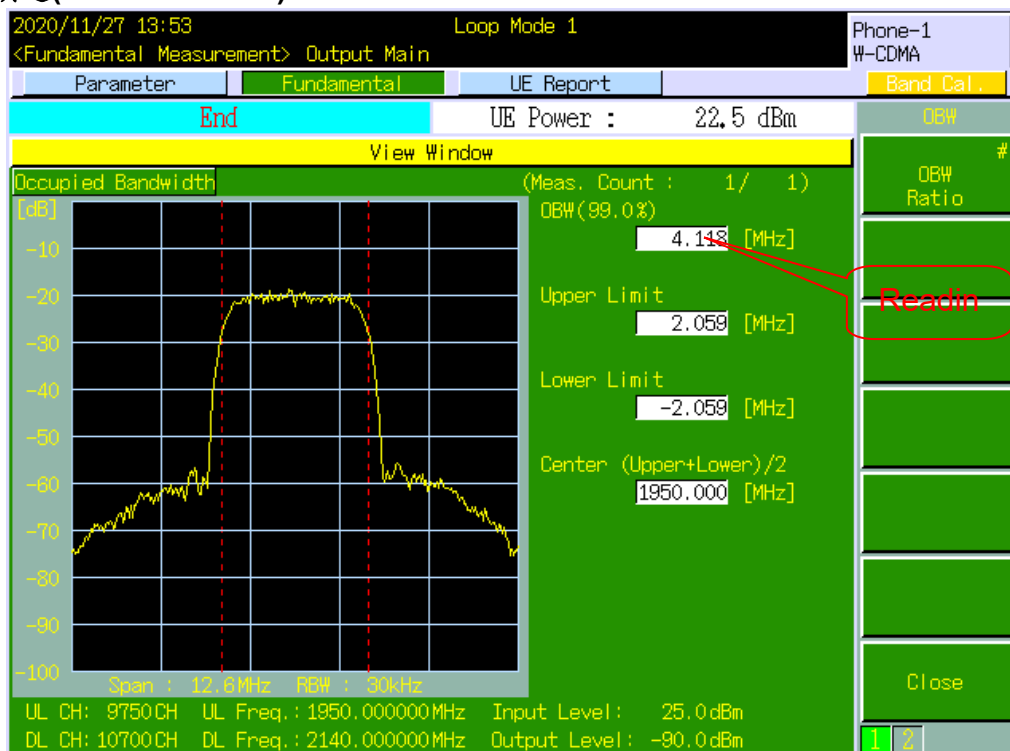
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測試頻道: 中頻道(UARFCN 9750)

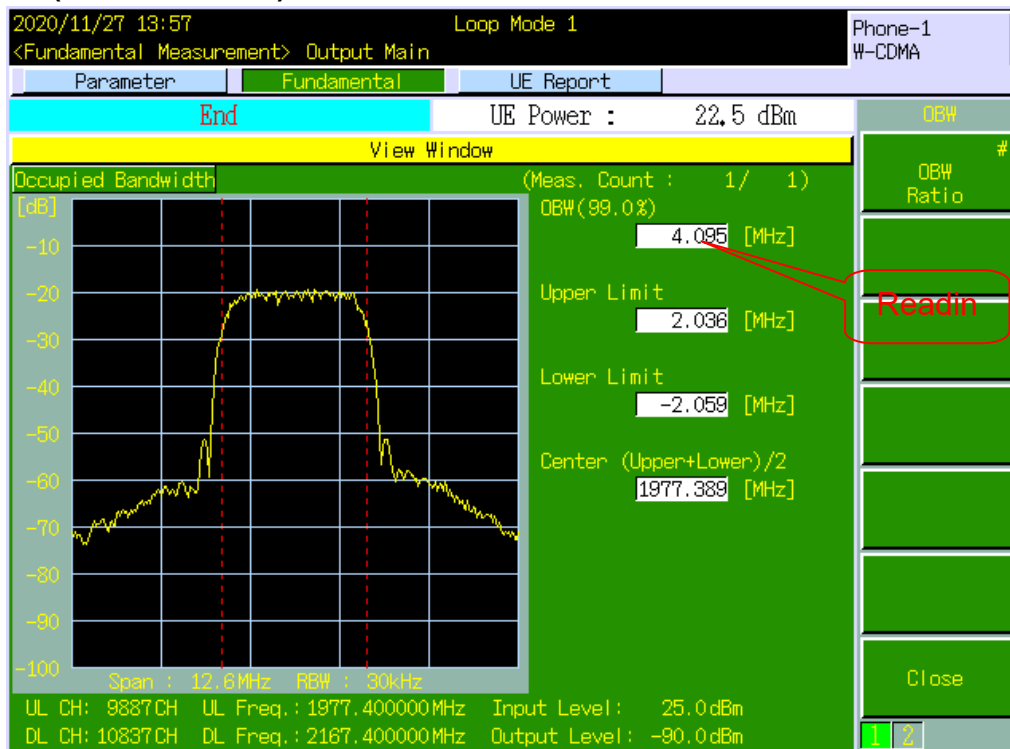


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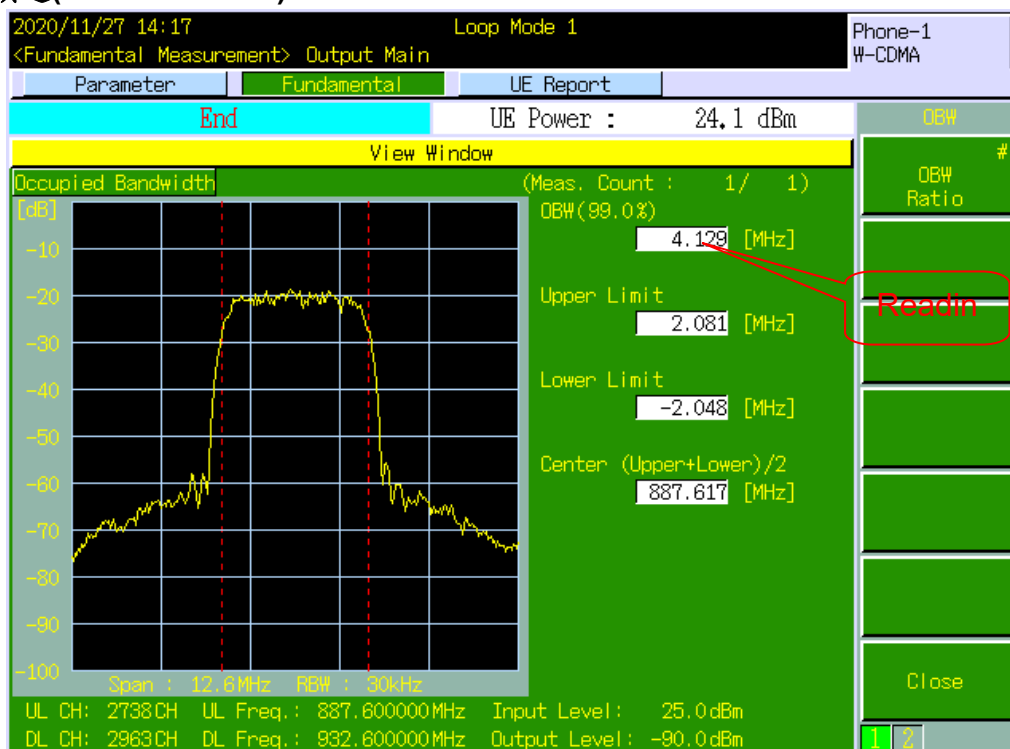
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測試頻道: 高頻道(UARFCN 9887)



測試頻道: 低頻道(UARFCN 2738)

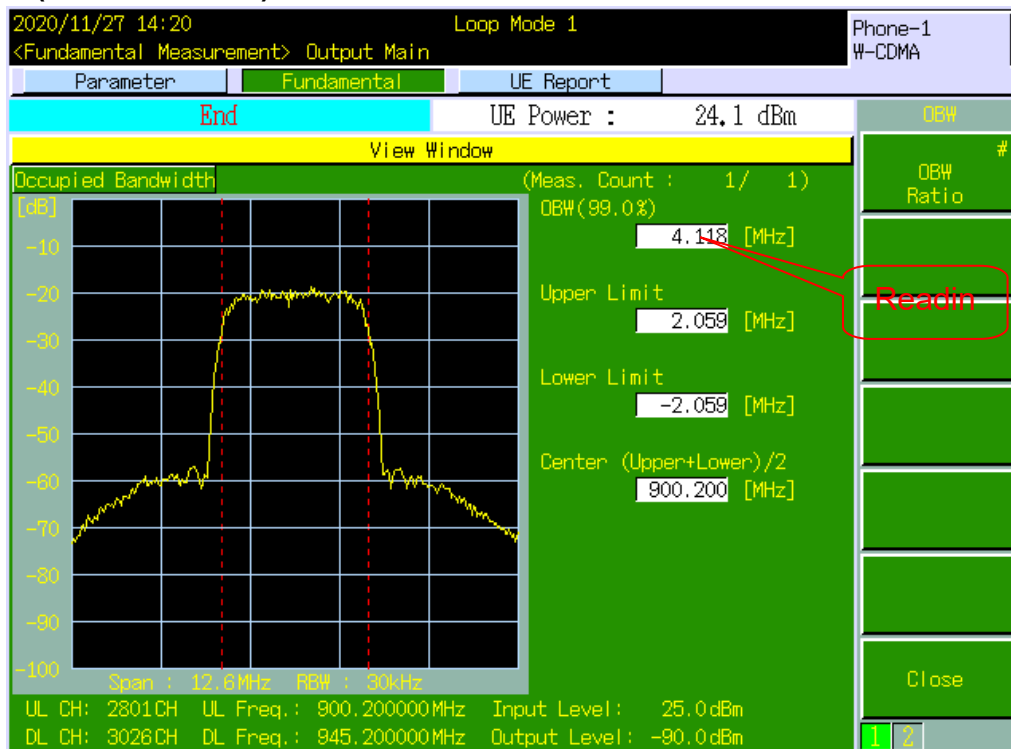


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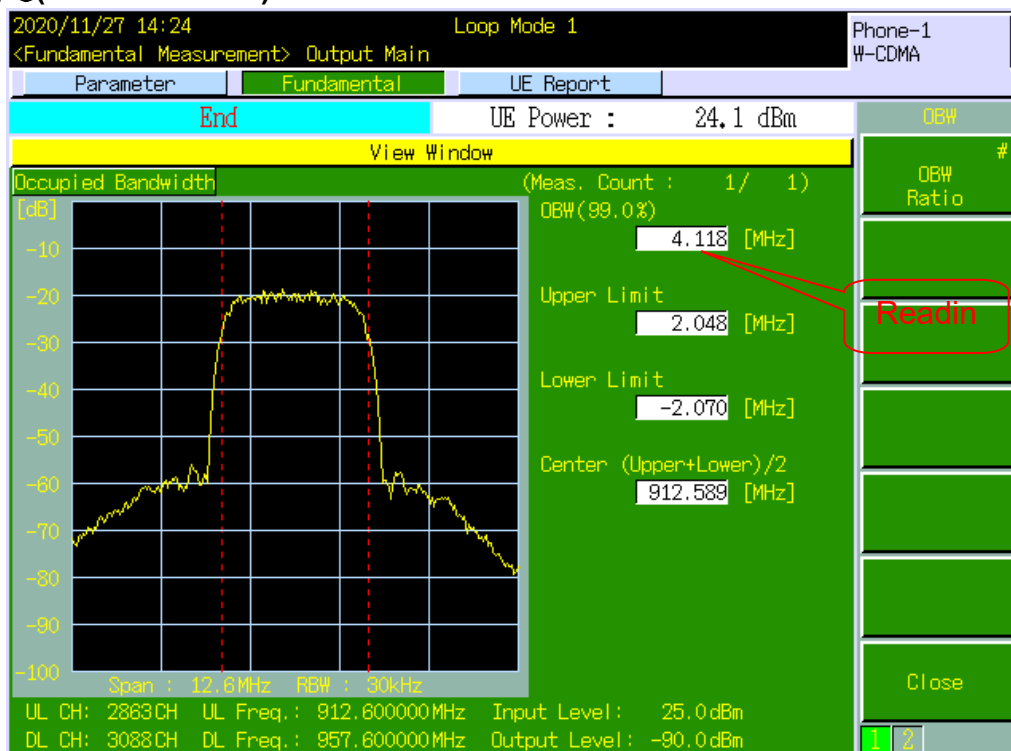
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測試頻道: 中頻道(UARFCN 2801)



測試頻道: 高頻道(UARFCN 2863)



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12 發射頻譜波罩之量測

12.1 適用標準:

參考 PLMN08, 3.1.1 節規定

12.2 測試配置:

參考本報告 2.2 節配置方法

12.3 量測儀器設備:

參考本報告 2.3 節

12.4 測試方法:

參考 3GPP TS34.121, 5.9.4 節規定

12.5 量測結果:

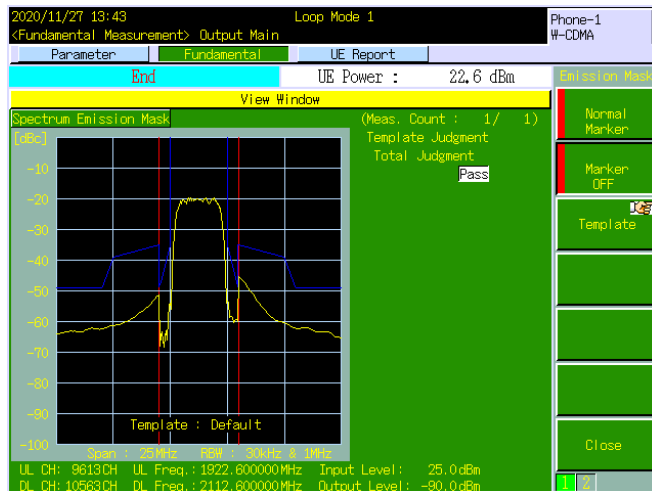
WCDMA測試頻道	頻譜波罩	量測結果
低頻道(UARFCN 9613)	參考測試圖	Pass
中頻道(UARFCN 9750)	參考測試圖	Pass
高頻道(UARFCN 9887)	參考測試圖	Pass
低頻道(UARFCN 2738)	參考測試圖	Pass
中頻道(UARFCN 2801)	參考測試圖	Pass
高頻道(UARFCN 2863)	參考測試圖	Pass

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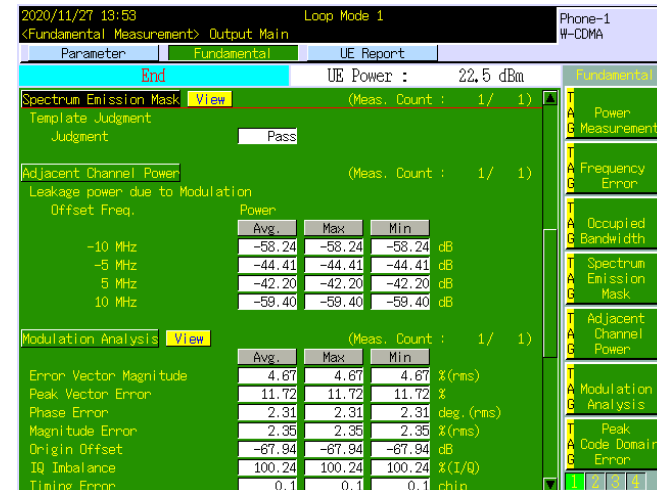
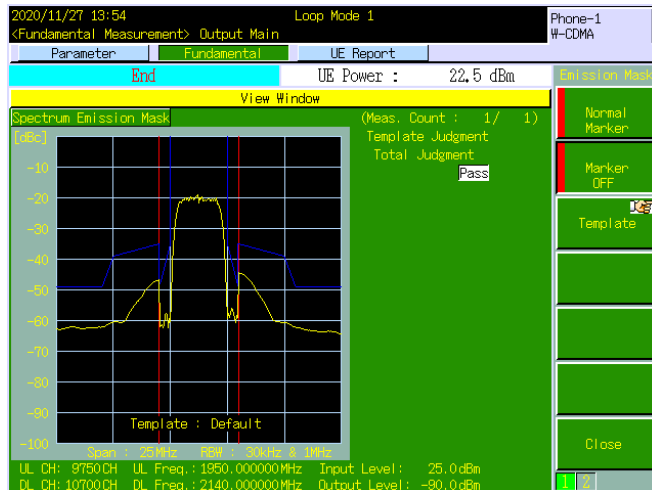
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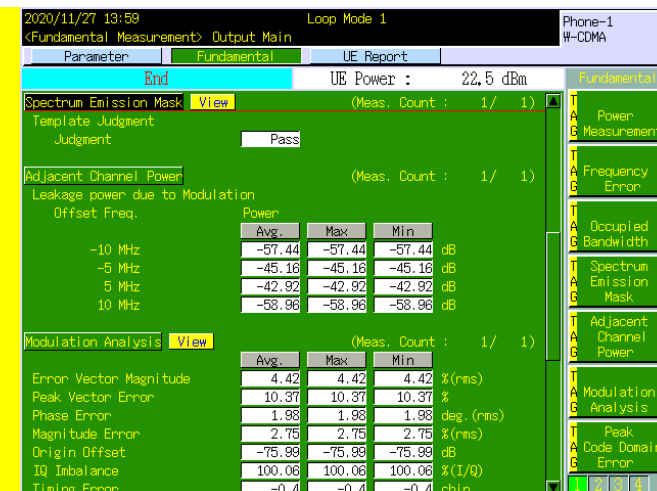
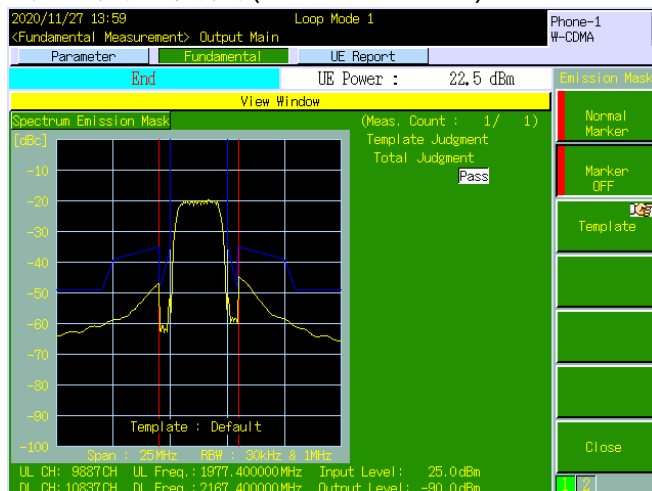
測試頻道: 低頻道(UARFCN 9613)



測試頻道: 中頻道(UARFCN 9750)



測試頻道: 高頻道(UARFCN 9887)



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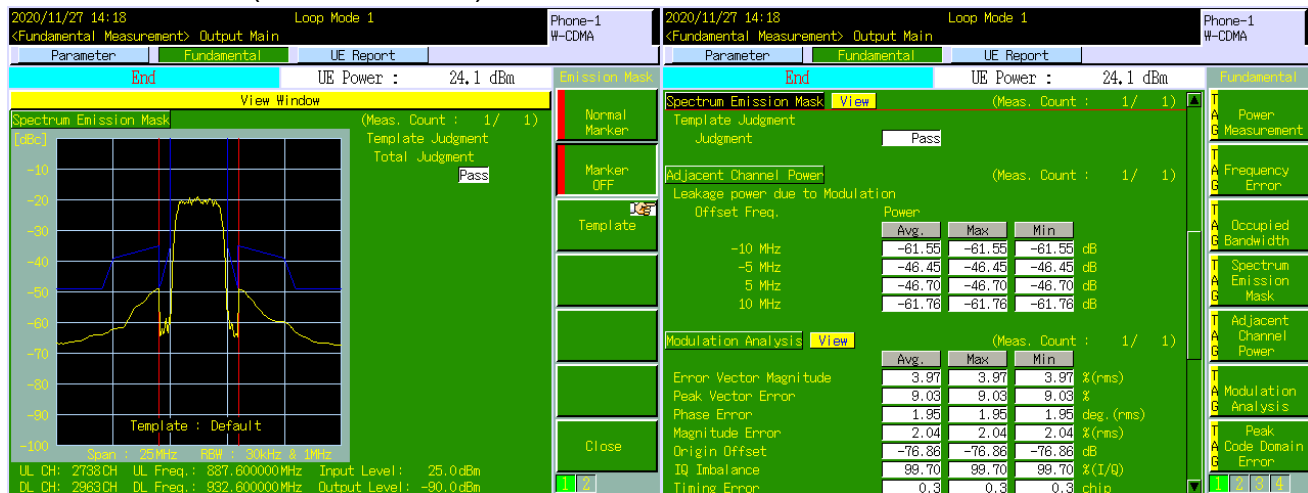
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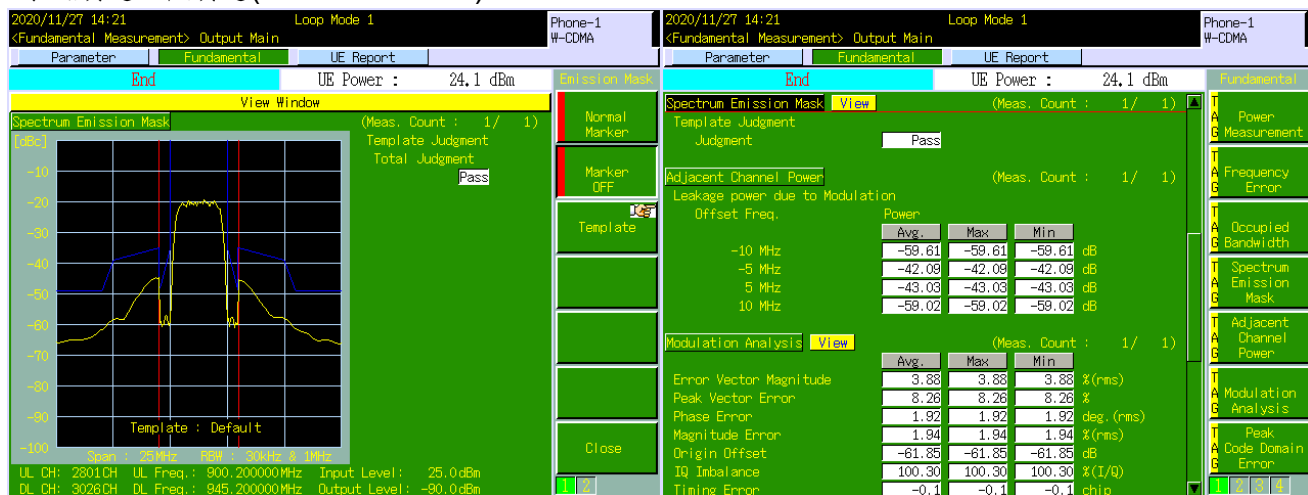
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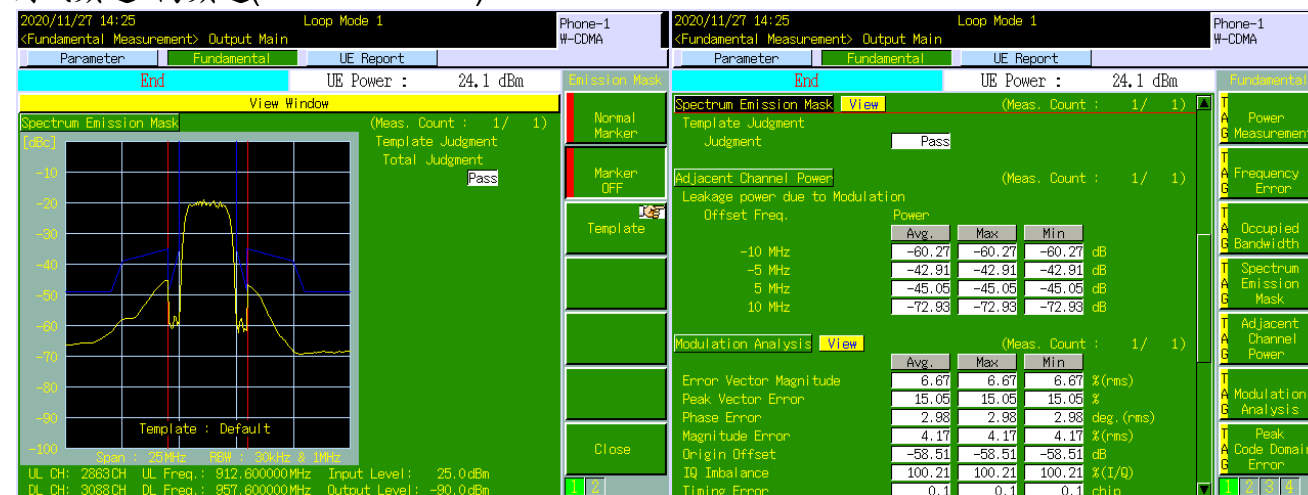
測試頻道: 低頻道(UARFCN 2738)



測試頻道: 中頻道(UARFCN 2801)



測試頻道: 高頻道(UARFCN 2863)



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13 鄰頻道洩漏功率比之量測

13.1 適用標準:

參考 PLMN08, 3.1.1 節規定

13.2 測試配置:

參考本報告 2.2 節配置方法

13.3 量測儀器設備:

參考本報告 2.3 節

13.4 測試方法:

參考 3GPP TS34.121, 5.10.4 節規定

13.5 量測結果:

WCDMA測試頻道	鄰頻道洩漏功率比	量測結果
低頻道(UARFCN 9613)	參考測試圖	Pass
中頻道(UARFCN 9750)	參考測試圖	Pass
高頻道(UARFCN 9887)	參考測試圖	Pass
低頻道(UARFCN 2738)	參考測試圖	Pass
中頻道(UARFCN 2801)	參考測試圖	Pass
高頻道(UARFCN 2863)	參考測試圖	Pass

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測試頻道: 低頻道(UARFCN 9613)

2020/11/27 13:44

Loop Mode 1

Phone-1

<Fundamental Measurement> Output Main

W-CDMA

Parameter

Fundamental

UE Report

End

UE Power : 22.6 dBm

Fundamental

Adjacent Channel Power

(Meas. Count : 1/ 1)

Leakage power due to Modulation

Offset Freq.

Power

Avg.

Max

Min

-10 MHz

-58.96

-58.96

-58.96

dB

-5 MHz

-49.40

-49.40

-49.40

dB

5 MHz

-43.92

-43.92

-43.92

dB

10 MHz

-58.92

-58.92

-58.92

dB

Modulation Analysis

View

(Meas. Count : 1/ 1)

Avg.

Max

Min

Error Vector Magnitude

3.97

3.97

3.97

%(rms)

Peak Vector Error

9.63

9.63

9.63

%

Phase Error

1.89

1.89

1.89

deg.(rms)

Magnitude Error

2.21

2.21

2.21

%(rms)

Origin Offset

-62.54

-62.54

-62.54

dB

IQ Imbalance

100.32

100.32

100.32

%(I/Q)

Timing Error

0.4

0.4

0.4

chip

DPCCH/DPDCH Power Ratio

-5.45

-5.45

-5.45

dB

Peak Code Domain Error

(Meas. Count : 1/ 1)

Avg.

Max

Min

1

2

3

4

測試頻道: 中頻道(UARFCN 9750)

2020/11/27 13:55

Loop Mode 1

Phone-1

<Fundamental Measurement> Output Main

W-CDMA

Parameter

Fundamental

UE Report

End

UE Power : 22.5 dBm

Fundamental

Adjacent Channel Power

(Meas. Count : 1/ 1)

Leakage power due to Modulation

Offset Freq.

Power

Avg.

Max

Min

-10 MHz

-58.24

-58.24

-58.24

dB

-5 MHz

-44.41

-44.41

-44.41

dB

5 MHz

-42.20

-42.20

-42.20

dB

10 MHz

-59.40

-59.40

-59.40

dB

Modulation Analysis

View

(Meas. Count : 1/ 1)

Avg.

Max

Min

Error Vector Magnitude

4.67

4.67

4.67

%(rms)

Peak Vector Error

11.72

11.72

11.72

%

Phase Error

2.31

2.31

2.31

deg.(rms)

Magnitude Error

2.35

2.35

2.35

%(rms)

Origin Offset

-67.94

-67.94

-67.94

dB

IQ Imbalance

100.24

100.24

100.24

%(I/Q)

Timing Error

0.1

0.1

0.1

chip

DPCCH/DPDCH Power Ratio

-5.47

-5.47

-5.47

dB

Peak Code Domain Error

(Meas. Count : 1/ 1)

Avg.

Max

Min

Power Measurement

Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Adjacent Channel Power

Modulation Analysis

Peak Code Domain Error

1

2

3

4

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測試頻道: 高頻道(UARFCN 9887)

2020/11/27 14:00

Loop Mode 1

Phone-1
W-CDMA

<Fundamental Measurement> Output Main

Parameter

Fundamental

UE Report

End

UE Power : 22.5 dBm

Fundamental

Adjacent Channel Power (Meas. Count : 1/ 1)

Leakage power due to Modulation

Offset Freq. Power

	Avg.	Max	Min	
-10 MHz	-57.44	-57.44	-57.44	dB
-5 MHz	-45.16	-45.16	-45.16	dB
5 MHz	-42.92	-42.92	-42.92	dB
10 MHz	-58.96	-58.96	-58.96	dB

Modulation Analysis View (Meas. Count : 1/ 1)

	Avg.	Max	Min	
Error Vector Magnitude	4.42	4.42	4.42	%(rms)
Peak Vector Error	10.37	10.37	10.37	%
Phase Error	1.98	1.98	1.98	deg.(rms)
Magnitude Error	2.75	2.75	2.75	%(rms)
Origin Offset	-75.99	-75.99	-75.99	dB
IQ Imbalance	100.06	100.06	100.06	%(I/Q)
Timing Error	-0.4	-0.4	-0.4	chip
DPCCH/DPDCH Power Ratio	-5.46	-5.46	-5.46	dB

Peak Code Domain Error (Meas. Count : 1/ 1)

	Avg.	Max	Min
--	------	-----	-----

Power Measurement

Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Adjacent Channel Power

Modulation Analysis

Peak Code Domain Error

1 2 3 4

測試頻道: 低頻道(UARFCN 2738)

2020/11/27 14:19

Loop Mode 1

Phone-1
W-CDMA

<Fundamental Measurement> Output Main

Parameter

Fundamental

UE Report

End

UE Power : 24.1 dBm

Fundamental

Adjacent Channel Power

(Meas. Count : 1/ 1)

▲

Leakage power due to Modulation

Offset Freq.

Power

Avg.

Max

Min

-10 MHz

-61.55

-61.55

-61.55

dB

-5 MHz

-46.45

-46.45

-46.45

dB

5 MHz

-46.70

-46.70

-46.70

dB

10 MHz

-61.76

-61.76

-61.76

dB

▲

T

A

G

Power Measurement

T

A

G

Frequency Error

T

A

G

Occupied Bandwidth

T

A

G

Spectrum Emission Mask

T

A

G

Adjacent Channel Power

Modulation Analysis

View

(Meas. Count : 1/ 1)

▲

Avg.

Max

Min

Error Vector Magnitude

3.97

3.97

3.97

%(rms)

Peak Vector Error

9.03

9.03

9.03

%

Phase Error

1.95

1.95

1.95

deg.(rms)

Magnitude Error

2.04

2.04

2.04

%(rms)

Origin Offset

-76.86

-76.86

-76.86

dB

IQ Imbalance

99.70

99.70

99.70

%(I/Q)

Timing Error

0.3

0.3

0.3

chip

DPCCH/DPDCH Power Ratio

-5.47

-5.47

-5.47

dB

▲

T

A

G

Modulation Analysis

T

A

G

Peak Code Domain Error

Peak Code Domain Error

(Meas. Count : 1/ 1)

▼

Avg.

Max

Min

▼

1

2

3

4

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測試頻道: 中頻道(UARFCN 2801)

2020/11/27 14:22

Loop Mode 1

Phone-1

<Fundamental Measurement> Output Main

W-CDMA

Parameter

Fundamental

UE Report

End

UE Power : 24.1 dBm

Fundamental

Adjacent Channel Power

(Meas. Count : 1/ 1)

Leakage power due to Modulation

Offset Freq.

Power

Avg.

Max

Min

-10 MHz

-59.61

-59.61

-59.61

dB

-5 MHz

-42.09

-42.09

-42.09

dB

5 MHz

-43.03

-43.03

-43.03

dB

10 MHz

-59.02

-59.02

-59.02

dB

Modulation Analysis

View

(Meas. Count : 1/ 1)

Avg.

Max

Min

Error Vector Magnitude

3.88

3.88

3.88

%(rms)

Peak Vector Error

8.26

8.26

8.26

%

Phase Error

1.92

1.92

1.92

deg.(rms)

Magnitude Error

1.94

1.94

1.94

%(rms)

Origin Offset

-61.85

-61.85

-61.85

dB

IQ Imbalance

100.30

100.30

100.30

%(I/Q)

Timing Error

-0.1

-0.1

-0.1

chip

DPCCH/DPDCH Power Ratio

-5.46

-5.46

-5.46

dB

Peak Code Domain Error

(Meas. Count : 1/ 1)

Avg.

Max

Min

Power Measurement

Frequency Error

Occupied Bandwidth

Spectrum Emission Mask

Adjacent Channel Power

Modulation Analysis

Peak Code Domain Error

1

2

3

4

測試頻道: 高頻道(UARFCN 2863)

2020/11/27 14:25

Loop Mode 1

Phone-1

<Fundamental Measurement> Output Main

W-CDMA

Parameter

Fundamental

UE Report

End

UE Power : 24.2 dBm

Fundamental

Adjacent Channel Power

(Meas. Count : 1/ 1)

Leakage power due to Modulation

Offset Freq.

Power

Avg.

Max

Min

-10 MHz

-60.27

-60.27

-60.27

dB

-5 MHz

-42.91

-42.91

-42.91

dB

5 MHz

-45.05

-45.05

-45.05

dB

10 MHz

-72.93

-72.93

-72.93

dB

Modulation Analysis

View

(Meas. Count : 1/ 1)

Avg.

Max

Min

Error Vector Magnitude

6.67

6.67

6.67

%(rms)

Peak Vector Error

15.05

15.05

15.05

%

Phase Error

2.98

2.98

2.98

deg.(rms)

Magnitude Error

4.17

4.17

4.17

%(rms)

Origin Offset

-58.51

-58.51

-58.51

dB

IQ Imbalance

100.21

100.21

100.21

%(I/Q)

Timing Error

0.1

0.1

0.1

chip

DPCCH/DPDCH Power Ratio

-5.44

-5.44

-5.44

dB

Peak Code Domain Error

(Meas. Count : 1/ 1)

Avg.

Max

Min

1

2

3

4

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14 傳導性混附波輻射之量測

14.1 適用標準:

參考 PLMN01, 8.2 節規定

14.2 測試配置:

參考本報告 2.2 節配置方法

14.3 量測儀器設備:

參考本報告 2.3 節

14.4 測試方法:

參考 3GPP TS34.121, 5.11.4 節規定

14.5 量測結果: 請詳見下頁

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Traffic Mode

低頻道(UARFCN 9613)

頻率範圍	測量頻寬	限制值	檢驗結果 (dBm)	判定
462.5 MHz $\leq f \leq$ 467.5 MHz	1 MHz	-50 dBm	-79.98	合格
703 MHz $\leq f \leq$ 803 MHz	1 MHz	-50 dBm	-70.57	合格
791 MHz $\leq f \leq$ 821 MHz	3.84 MHz	-60 dBm	-73.66	合格
852 MHz $\leq f \leq$ 859 MHz	1 MHz	-50 dBm	-79.27	合格
859 MHz $\leq f \leq$ 894 MHz	3.84 MHz	-60 dBm	-73.24	合格
921 MHz $\leq f <$ 925 MHz	100 kHz	-60 dBm	-88.79	合格
925 MHz $\leq f \leq$ 935 MHz	100 kHz	-67 dBm	-89.11	合格
925 MHz $\leq f \leq$ 935 MHz	3.84 MHz	-60 dBm	-73.48	合格
935 MHz $< f \leq$ 960 MHz	100 kHz	-79 dBm	-89.10	合格
935 MHz $< f \leq$ 960 MHz	3.84 MHz	-60 dBm	-73.59	合格
1447 MHz $\leq f \leq$ 1467 MHz	1 MHz	-50 dBm	-78.74	合格
1452 MHz $\leq f \leq$ 1510.9 MHz	3.84 MHz	-60 dBm	-72.84	合格
1805 MHz $\leq f \leq$ 1880 MHz	100 kHz	-71 dBm	-88.04	合格
1805 MHz $\leq f \leq$ 1880 MHz	3.84 MHz	-60 dBm	-72.42	合格
1839.9 MHz $\leq f \leq$ 1879.9 MHz	3.84 MHz	-60 dBm	-72.33	合格
1884.5 MHz $< f <$ 1915.7 MHz	300 kHz	-41 dBm	-83.10	合格
2010 MHz $< f <$ 2025 MHz	3.84 MHz	-60 dBm	-82.66	合格
2110 MHz $\leq f \leq$ 2170 MHz	3.84 MHz	-60 dBm	-82.22	合格
2170 MHz $\leq f \leq$ 2200 MHz	1 MHz	-50 dBm	-87.70	合格
2300 MHz $\leq f \leq$ 2400 MHz	3.84 MHz	-60 dBm	-64.51	合格
2496 MHz $\leq f \leq$ 2570 MHz	1 MHz	-50 dBm	-86.91	合格
2570 MHz $\leq f \leq$ 2690 MHz	3.84 MHz	-60 dBm	-80.34	合格
3510 MHz $\leq f \leq$ 3590 MHz	3.84 MHz	-60 dBm	-80.88	合格
3400 MHz $\leq f \leq$ 3800 MHz	1 MHz	-50 dBm	-82.10	合格

頻率範圍	測量頻寬	限制值	檢驗結果(dBm)	判定
9 kHz $\leq f <$ 150 kHz	1 kHz	-36 dBm	-97.44	合格
150 kHz $\leq f <$ 30 MHz	10 kHz	-36 dBm	-75.37	合格
30 MHz $\leq f <$ 1000 MHz	100 kHz	-36 dBm	-87.86	合格
1GHz $\leq f <$ 12.75 GHz	1 MHz	-30 dBm	-71.14	合格

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中頻道(UARFCN 9750)

頻率範圍	測量頻寬	限制值	檢驗結果 (dBm)	判定
462.5 MHz $\leq f \leq$ 467.5 MHz	1 MHz	-50 dBm	-79.86	合格
703 MHz $\leq f \leq$ 803 MHz	1 MHz	-50 dBm	-79.15	合格
791 MHz $\leq f \leq$ 821 MHz	3.84 MHz	-60 dBm	-73.62	合格
852 MHz $\leq f \leq$ 859 MHz	1 MHz	-50 dBm	-79.15	合格
859 MHz $\leq f \leq$ 894 MHz	3.84 MHz	-60 dBm	-73.16	合格
921 MHz $\leq f <$ 925 MHz	100 kHz	-60 dBm	-88.98	合格
925 MHz $\leq f \leq$ 935 MHz	100 kHz	-67 dBm	-89.02	合格
925 MHz $\leq f \leq$ 935 MHz	3.84 MHz	-60 dBm	-73.43	合格
935 MHz $< f \leq$ 960 MHz	100 kHz	-79 dBm	-88.98	合格
935 MHz $< f \leq$ 960 MHz	3.84 MHz	-60 dBm	-73.54	合格
1447 MHz $\leq f \leq$ 1467 MHz	1 MHz	-50 dBm	-78.74	合格
1452 MHz $\leq f \leq$ 1510.9 MHz	3.84 MHz	-60 dBm	-72.82	合格
1805 MHz $\leq f \leq$ 1880 MHz	100 kHz	-71 dBm	-88.08	合格
1805 MHz $\leq f \leq$ 1880 MHz	3.84 MHz	-60 dBm	-72.44	合格
1839.9 MHz $\leq f \leq$ 1879.9 MHz	3.84 MHz	-60 dBm	-72.31	合格
1884.5 MHz $< f <$ 1915.7 MHz	300 kHz	-41 dBm	-83.02	合格
2010 MHz $< f <$ 2025 MHz	3.84 MHz	-60 dBm	-82.62	合格
2110 MHz $\leq f \leq$ 2170 MHz	3.84 MHz	-60 dBm	-82.22	合格
2170 MHz $\leq f \leq$ 2200 MHz	1 MHz	-50 dBm	-87.82	合格
2300 MHz $\leq f \leq$ 2400 MHz	3.84 MHz	-60 dBm	-81.59	合格
2496 MHz $\leq f \leq$ 2570 MHz	1 MHz	-50 dBm	-86.67	合格
2570 MHz $\leq f \leq$ 2690 MHz	3.84 MHz	-60 dBm	-80.65	合格
3510 MHz $\leq f \leq$ 3590 MHz	3.84 MHz	-60 dBm	-80.84	合格
3400 MHz $\leq f \leq$ 3800 MHz	1 MHz	-50 dBm	-81.88	合格

頻率範圍	測量頻寬	限制值	檢驗結果(dBm)	判定
9 kHz $\leq f <$ 150 kHz	1 kHz	-36 dBm	-97.35	合格
150 kHz $\leq f <$ 30 MHz	10 kHz	-36 dBm	-75.50	合格
30 MHz $\leq f <$ 1000 MHz	100 kHz	-36 dBm	-87.70	合格
1GHz $\leq f <$ 12.75 GHz	1 MHz	-30 dBm	-71.36	合格

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高頻道(UARFCN 9887)

頻率範圍	測量頻寬	限制值	檢驗結果 (dBm)	判定
$462.5 \text{ MHz} \leq f \leq 467.5 \text{ MHz}$	1 MHz	-50 dBm	-79.90	合格
$703 \text{ MHz} \leq f \leq 803 \text{ MHz}$	1 MHz	-50 dBm	-79.17	合格
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	-60 dBm	-73.69	合格
$852 \text{ MHz} \leq f \leq 859 \text{ MHz}$	1 MHz	-50 dBm	-79.15	合格
$859 \text{ MHz} \leq f \leq 894 \text{ MHz}$	3.84 MHz	-60 dBm	-73.21	合格
$921 \text{ MHz} \leq f < 925 \text{ MHz}$	100 kHz	-60 dBm	-88.98	合格
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz	-67 dBm	-89.00	合格
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	3.84 MHz	-60 dBm	-73.42	合格
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	100 kHz	-79 dBm	-89.13	合格
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	3.84 MHz	-60 dBm	-73.57	合格
$1447 \text{ MHz} \leq f \leq 1467 \text{ MHz}$	1 MHz	-50 dBm	-78.44	合格
$1452 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	-60 dBm	-72.80	合格
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	100 kHz	-71 dBm	-88.17	合格
$1805 \text{ MHz} \leq f \leq 1880 \text{ MHz}$	3.84 MHz	-60 dBm	-72.35	合格
$1839.9 \text{ MHz} \leq f \leq 1879.9 \text{ MHz}$	3.84 MHz	-60 dBm	-72.36	合格
$1884.5 \text{ MHz} < f < 1915.7 \text{ MHz}$	300 kHz	-41 dBm	-82.97	合格
$2010 \text{ MHz} < f < 2025 \text{ MHz}$	3.84 MHz	-60 dBm	-82.71	合格
$2110 \text{ MHz} \leq f \leq 2170 \text{ MHz}$	3.84 MHz	-60 dBm	-82.19	合格
$2170 \text{ MHz} \leq f \leq 2200 \text{ MHz}$	1 MHz	-50 dBm	-87.87	合格
$2300 \text{ MHz} \leq f \leq 2400 \text{ MHz}$	3.84 MHz	-60 dBm	-81.66	合格
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm	-86.75	合格
$2570 \text{ MHz} \leq f \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm	-80.63	合格
$3510 \text{ MHz} \leq f \leq 3590 \text{ MHz}$	3.84 MHz	-60 dBm	-80.88	合格
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm	-82.28	合格

頻率範圍	測量頻寬	限制值	檢驗結果(dBm)	判定
$9 \text{ kHz} \leq f < 150 \text{ kHz}$	1 kHz	-36 dBm	-97.58	合格
$150 \text{ kHz} \leq f < 30 \text{ MHz}$	10 kHz	-36 dBm	-75.19	合格
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	100 kHz	-36 dBm	-87.87	合格
$1\text{GHz} \leq f < 12.75 \text{ GHz}$	1 MHz	-30 dBm	-71.19	合格

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低頻道(UARFCN 2738)

頻率範圍	測量頻寬	限制值	檢驗結果 (dBm)	判定
462.5 MHz $\leq f \leq$ 467.5 MHz	1 MHz	-50 dBm	-80.43	合格
703 MHz $\leq f \leq$ 803 MHz	1 MHz	-50 dBm	-79.73	合格
791 MHz $\leq f \leq$ 821 MHz	3.84 MHz	-60 dBm	-74.08	合格
860 MHz $\leq f \leq$ 890 MHz	1 MHz	-37 dBm	-57.79	合格
925 MHz $\leq f \leq$ 935 MHz	100 kHz	-67 dBm	-89.31	合格
925 MHz $\leq f \leq$ 935 MHz	3.84 MHz	-60 dBm	-73.88	合格
935 MHz $< f \leq$ 960 MHz	100 kHz	-79 dBm	-89.61	合格
935 MHz $< f \leq$ 960 MHz	3.84 MHz	-60 dBm	-73.96	合格
1447 MHz $\leq f \leq$ 1467 MHz	1 MHz	-50 dBm	-79.07	合格
1452 MHz $\leq f \leq$ 1496 MHz	3.84 MHz	-60 dBm	-73.27	合格
1475.9 MHz $\leq f \leq$ 1510.9 MHz	3.84 MHz	-60 dBm	-73.24	合格
1805 MHz $< f \leq$ 1830 MHz	100 kHz	-71 dBm	-88.67	合格
1805 MHz $< f \leq$ 1830 MHz	3.84 MHz	-60 dBm	-73.05	合格
1830 MHz $< f \leq$ 1880 MHz	100 kHz	-71 dBm	-88.50	合格
1830 MHz $< f \leq$ 1880 MHz	3.84 MHz	-60 dBm	-72.82	合格
1880MHz $\leq f \leq$ 1920 MHz	3.84 MHz	-60 dBm	-83.41	合格
1884.5 MHz $\leq f \leq$ 1915.7 MHz	300 kHz	-41 dBm	-94.50	合格
2010 MHz $\leq f \leq$ 2025 MHz	3.84 MHz	-60 dBm	-83.04	合格
2110 MHz $\leq f \leq$ 2170 MHz	3.84 MHz	-60 dBm	-82.64	合格
2170 MHz $\leq f \leq$ 2200 MHz	1 MHz	-50 dBm	-88.33	合格
2300 MHz $< f <$ 2400 MHz	3.84 MHz	-60 dBm	-81.97	合格
2496 MHz $\leq f \leq$ 2570 MHz	1 MHz	-50 dBm	-87.29	合格
2570 MHz $\leq f \leq$ 2640 MHz	3.84 MHz	-60 dBm	-81.13	合格
2640 MHz $< f \leq$ 2690 MHz	3.84 MHz	-60 dBm	-76.45	合格
3510 MHz $\leq f \leq$ 3590 MHz	3.84 MHz	-60 dBm	-79.05	合格
3400 MHz $\leq f \leq$ 3800 MHz	1 MHz	-50 dBm	-82.41	合格

頻率範圍	測量頻寬	限制值	檢驗結果(dBm)	判定
9 kHz $\leq f <$ 150 kHz	1 kHz	-36 dBm	-97.72	合格
150 kHz $\leq f <$ 30 MHz	10 kHz	-36 dBm	-75.64	合格
30 MHz $\leq f <$ 1000 MHz	100 kHz	-36 dBm	-87.91	合格
1GHz $\leq f <$ 12.75 GHz	1 MHz	-30 dBm	-71.76	合格

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中頻道(UARFCN 2801)

頻率範圍	測量頻寬	限制值	檢驗結果 (dBm)	判定
462.5 MHz $\leq f \leq$ 467.5 MHz	1 MHz	-50 dBm	-80.36	合格
703 MHz $\leq f \leq$ 803 MHz	1 MHz	-50 dBm	-79.67	合格
791 MHz $\leq f \leq$ 821 MHz	3.84 MHz	-60 dBm	-74.06	合格
860 MHz $\leq f \leq$ 890 MHz	1 MHz	-37 dBm	-79.55	合格
925 MHz $\leq f \leq$ 935 MHz	100 kHz	-67 dBm	-89.51	合格
925 MHz $\leq f \leq$ 935 MHz	3.84 MHz	-60 dBm	-73.83	合格
935 MHz $< f \leq$ 960 MHz	100 kHz	-79 dBm	-89.51	合格
935 MHz $< f \leq$ 960 MHz	3.84 MHz	-60 dBm	-74.08	合格
1447 MHz $\leq f \leq$ 1467 MHz	1 MHz	-50 dBm	-79.01	合格
1452 MHz $\leq f \leq$ 1496 MHz	3.84 MHz	-60 dBm	-73.24	合格
1475.9 MHz $\leq f \leq$ 1510.9 MHz	3.84 MHz	-60 dBm	-73.16	合格
1805 MHz $< f \leq$ 1830 MHz	100 kHz	-71 dBm	-88.54	合格
1805 MHz $< f \leq$ 1830 MHz	3.84 MHz	-60 dBm	-72.00	合格
1830 MHz $< f \leq$ 1880 MHz	100 kHz	-71 dBm	-88.46	合格
1830 MHz $< f \leq$ 1880 MHz	3.84 MHz	-60 dBm	-72.84	合格
1880MHz $\leq f \leq$ 1920 MHz	3.84 MHz	-60 dBm	-83.44	合格
1884.5 MHz $\leq f \leq$ 1915.7 MHz	300 kHz	-41 dBm	-94.32	合格
2010 MHz $\leq f \leq$ 2025 MHz	3.84 MHz	-60 dBm	-83.12	合格
2110 MHz $\leq f \leq$ 2170 MHz	3.84 MHz	-60 dBm	-82.67	合格
2170 MHz $\leq f \leq$ 2200 MHz	1 MHz	-50 dBm	-88.05	合格
2300 MHz $< f <$ 2400 MHz	3.84 MHz	-60 dBm	-82.03	合格
2496 MHz $\leq f \leq$ 2570 MHz	1 MHz	-50 dBm	-87.19	合格
2570 MHz $\leq f \leq$ 2640 MHz	3.84 MHz	-60 dBm	-81.09	合格
2640 MHz $< f \leq$ 2690 MHz	3.84 MHz	-60 dBm	-81.24	合格
3510 MHz $\leq f \leq$ 3590 MHz	3.84 MHz	-60 dBm	-81.29	合格
3400 MHz $\leq f \leq$ 3800 MHz	1 MHz	-50 dBm	-81.56	合格

頻率範圍	測量頻寬	限制值	檢驗結果(dBm)	判定
9 kHz $\leq f <$ 150 kHz	1 kHz	-36 dBm	-97.83	合格
150 kHz $\leq f <$ 30 MHz	10 kHz	-36 dBm	-75.71	合格
30 MHz $\leq f <$ 1000 MHz	100 kHz	-36 dBm	-87.92	合格
1GHz $\leq f <$ 12.75 GHz	1 MHz	-30 dBm	-71.69	合格

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高頻道(UARFCN 2863)

頻率範圍	測量頻寬	限制值	檢驗結果 (dBm)	判定
$462.5 \text{ MHz} \leq f \leq 467.5 \text{ MHz}$	1 MHz	-50 dBm	-79.68	合格
$703 \text{ MHz} \leq f \leq 803 \text{ MHz}$	1 MHz	-50 dBm	-79.12	合格
$791 \text{ MHz} \leq f \leq 821 \text{ MHz}$	3.84 MHz	-60 dBm	-73.22	合格
$860 \text{ MHz} \leq f \leq 890 \text{ MHz}$	1 MHz	-37 dBm	-78.61	合格
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	100 kHz	-67 dBm	-88.40	合格
$925 \text{ MHz} \leq f \leq 935 \text{ MHz}$	3.84 MHz	-60 dBm	-73.09	合格
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	100 kHz	-79 dBm	-89.04	合格
$935 \text{ MHz} < f \leq 960 \text{ MHz}$	3.84 MHz	-60 dBm	-73.21	合格
$1447 \text{ MHz} \leq f \leq 1467 \text{ MHz}$	1 MHz	-50 dBm	-78.42	合格
$1452 \text{ MHz} \leq f \leq 1496 \text{ MHz}$	3.84 MHz	-60 dBm	-72.55	合格
$1475.9 \text{ MHz} \leq f \leq 1510.9 \text{ MHz}$	3.84 MHz	-60 dBm	-72.48	合格
$1805 \text{ MHz} < f \leq 1830 \text{ MHz}$	100 kHz	-71 dBm	-79.39	合格
$1805 \text{ MHz} < f \leq 1830 \text{ MHz}$	3.84 MHz	-60 dBm	-65.90	合格
$1830 \text{ MHz} < f \leq 1880 \text{ MHz}$	100 kHz	-71 dBm	-87.48	合格
$1830 \text{ MHz} < f \leq 1880 \text{ MHz}$	3.84 MHz	-60 dBm	-69.48	合格
$1880 \text{ MHz} \leq f \leq 1920 \text{ MHz}$	3.84 MHz	-60 dBm	-82.66	合格
$1884.5 \text{ MHz} \leq f \leq 1915.7 \text{ MHz}$	300 kHz	-41 dBm	-93.44	合格
$2010 \text{ MHz} \leq f \leq 2025 \text{ MHz}$	3.84 MHz	-60 dBm	-81.89	合格
$2110 \text{ MHz} \leq f \leq 2170 \text{ MHz}$	3.84 MHz	-60 dBm	-81.91	合格
$2170 \text{ MHz} \leq f \leq 2200 \text{ MHz}$	1 MHz	-50 dBm	-87.55	合格
$2300 \text{ MHz} < f < 2400 \text{ MHz}$	3.84 MHz	-60 dBm	-81.29	合格
$2496 \text{ MHz} \leq f \leq 2570 \text{ MHz}$	1 MHz	-50 dBm	-86.58	合格
$2570 \text{ MHz} \leq f \leq 2640 \text{ MHz}$	3.84 MHz	-60 dBm	-80.61	合格
$2640 \text{ MHz} < f \leq 2690 \text{ MHz}$	3.84 MHz	-60 dBm	-80.67	合格
$3510 \text{ MHz} \leq f \leq 3590 \text{ MHz}$	3.84 MHz	-60 dBm	-80.22	合格
$3400 \text{ MHz} \leq f \leq 3800 \text{ MHz}$	1 MHz	-50 dBm	-80.71	合格

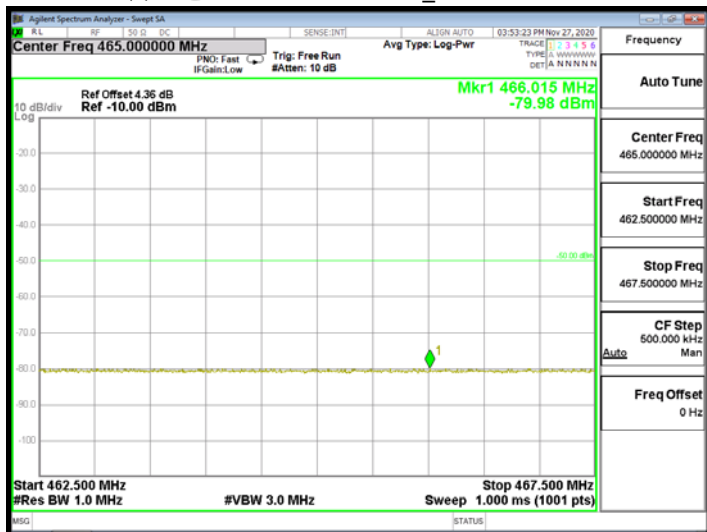
頻率範圍	測量頻寬	限制值	檢驗結果(dBm)	判定
$9 \text{ kHz} \leq f < 150 \text{ kHz}$	1 kHz	-36 dBm	-97.69	合格
$150 \text{ kHz} \leq f < 30 \text{ MHz}$	10 kHz	-36 dBm	-75.63	合格
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	100 kHz	-36 dBm	-87.86	合格
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	1 MHz	-30 dBm	-71.70	合格

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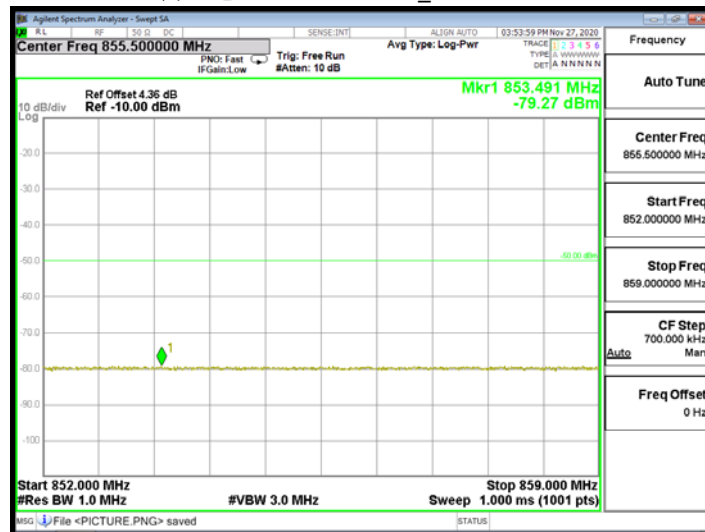
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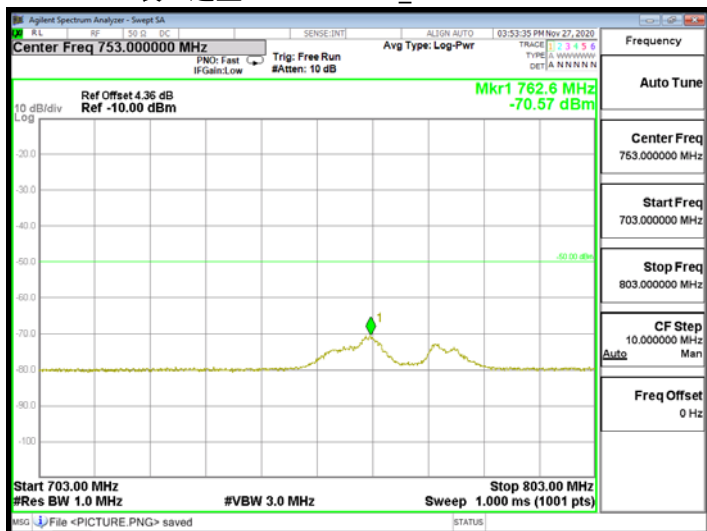
表一之五-1.462.5-467.5 MHz_UARFCN9613



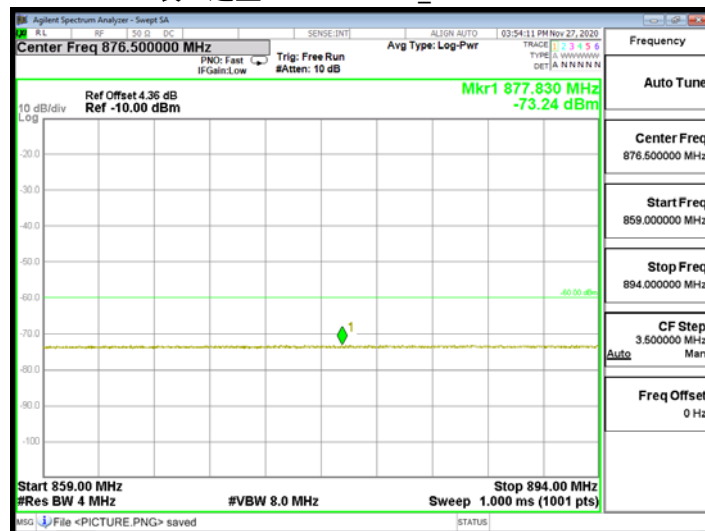
表一之五-4.852-859 MHz_UARFCN9613



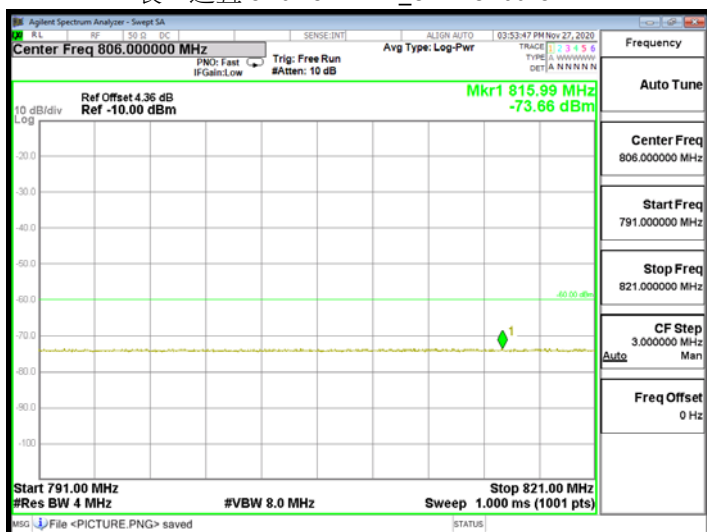
表一之五-2.703-803 MHz_UARFCN9613



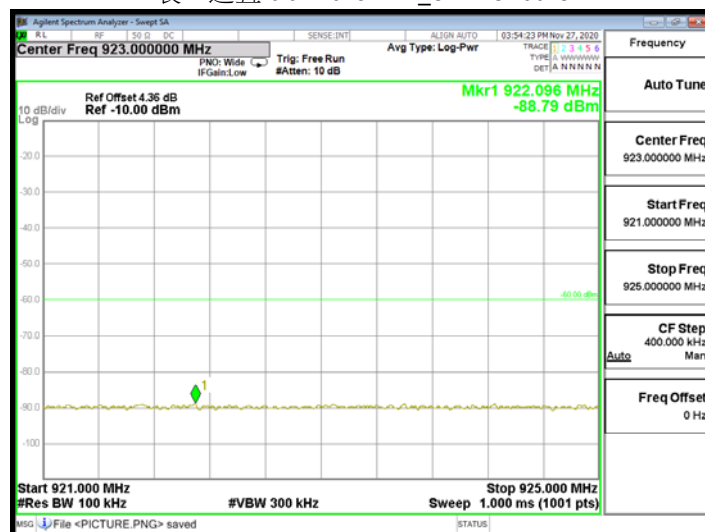
表一之五-5.859-894 MHz_UARFCN9613



表一之五-3.791-821 MHz_UARFCN9613



表一之五-6.921-925 MHz_UARFCN9613



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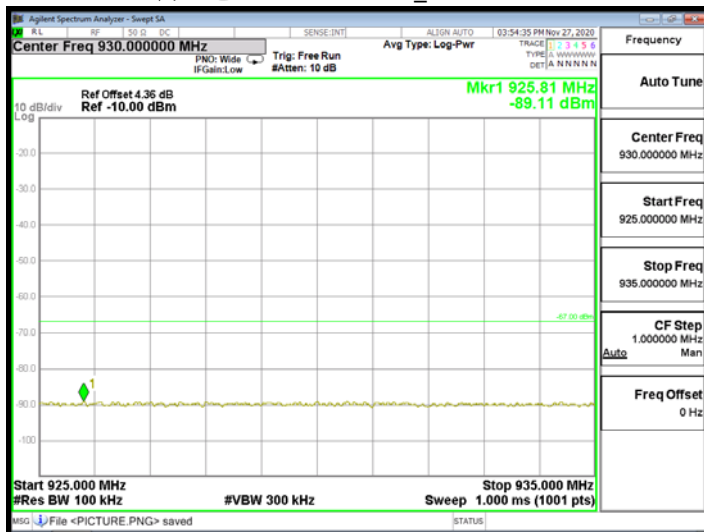
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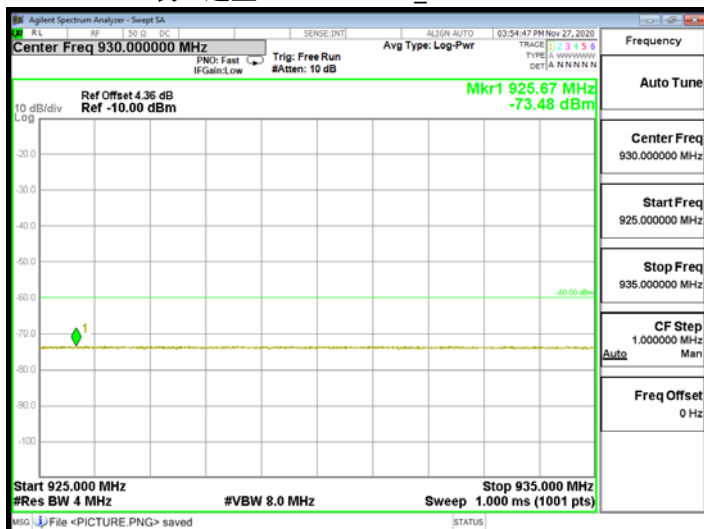
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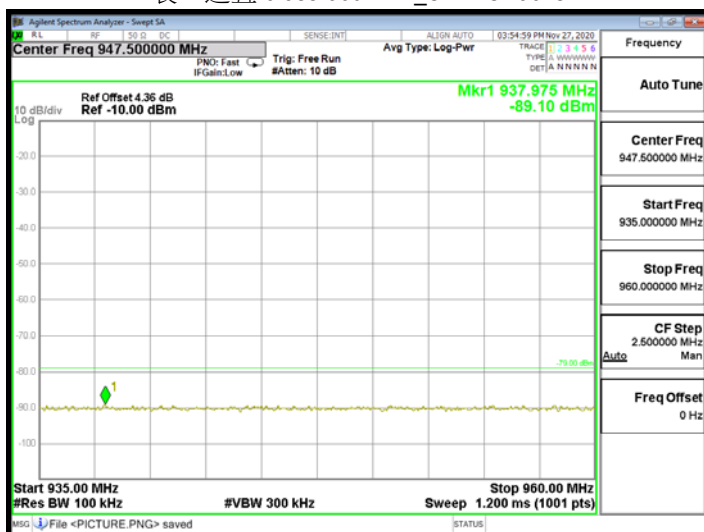
表一之五-7.925-935 MHz_UARFCN9613



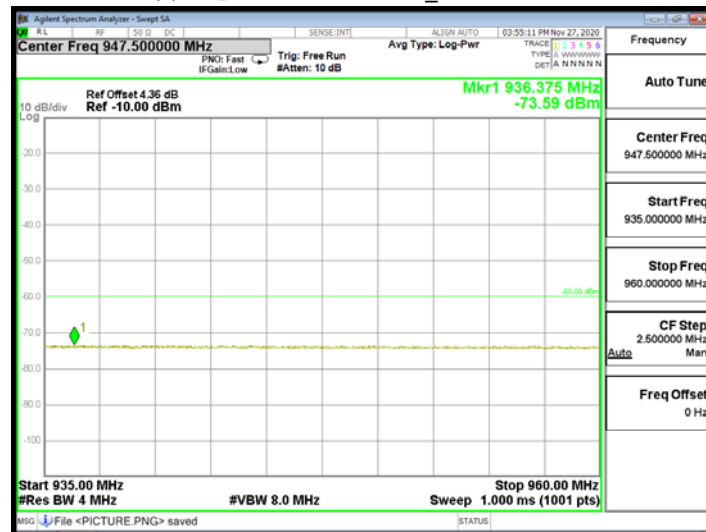
表一之五-8.925-935 MHz_UARFCN9613



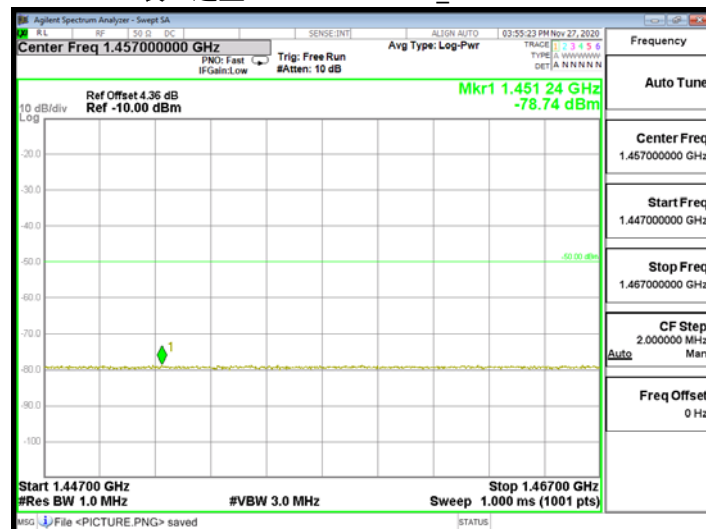
表一之五-9.935-960 MHz_UARFCN9613



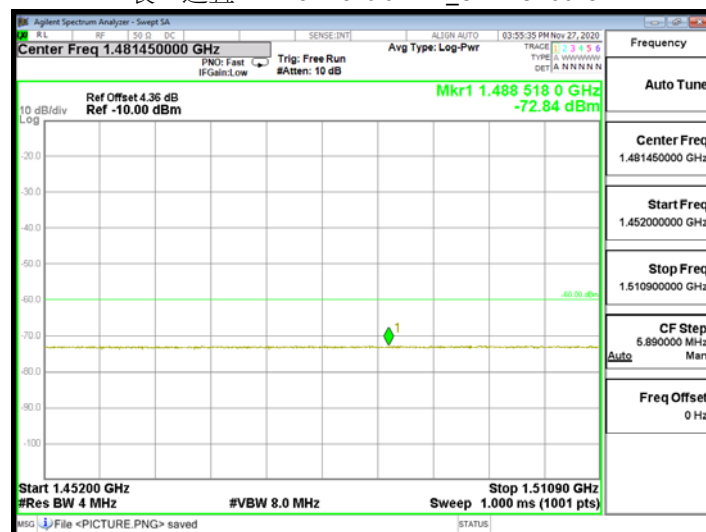
表一之五-10.935-960 MHz_UARFCN9613



表一之五-11.1447-1467 MHz_UARFCN9613



表一之五-12.1452-1510.9 MHz_UARFCN9613



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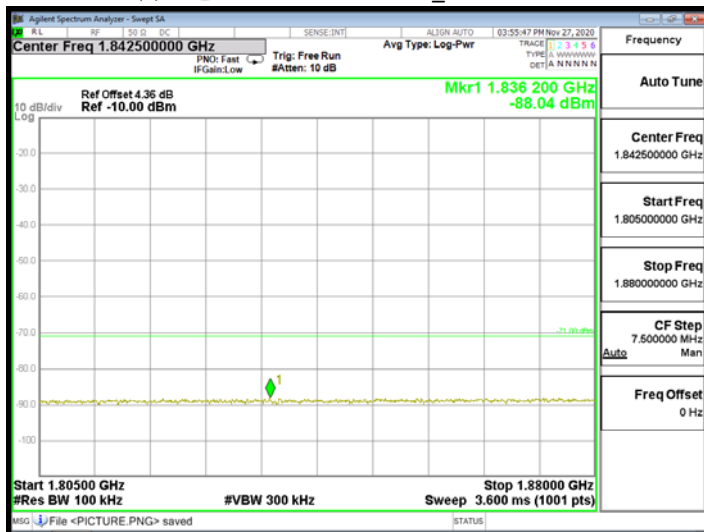
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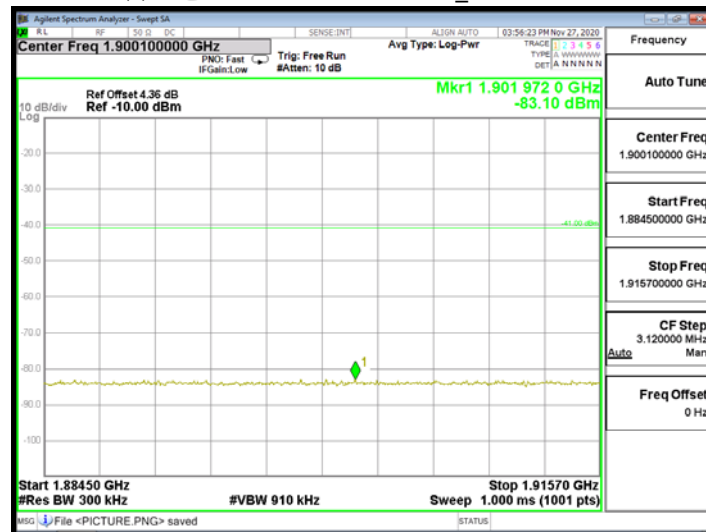
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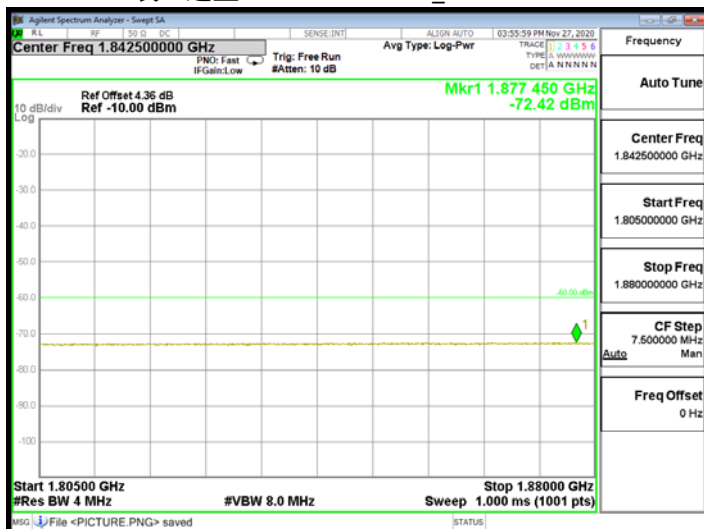
表一之五-13.1805-1880 MHz_UARFCN9613



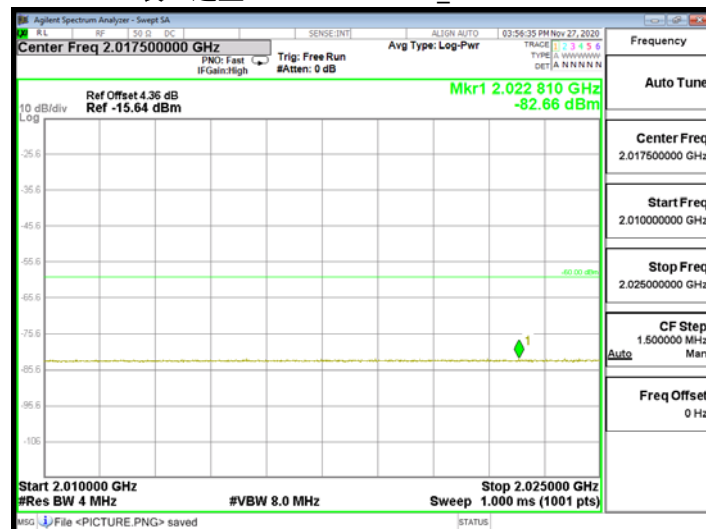
表一之五-16.1884.5-1915.7 MHz_UARFCN9613



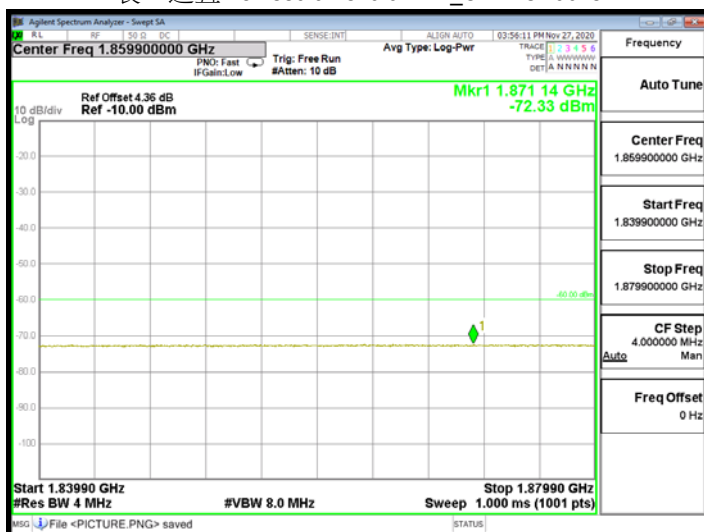
表一之五-14.1805-1880 MHz_UARFCN9613



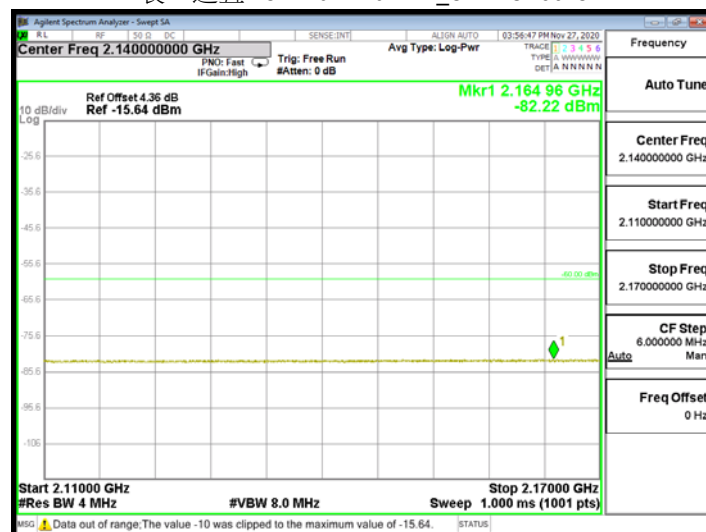
表一之五-17.2010-2025 MHz_UARFCN9613



表一之五-15.1839.9-1879.9 MHz_UARFCN9613



表一之五-18.2110-2170 MHz_UARFCN9613

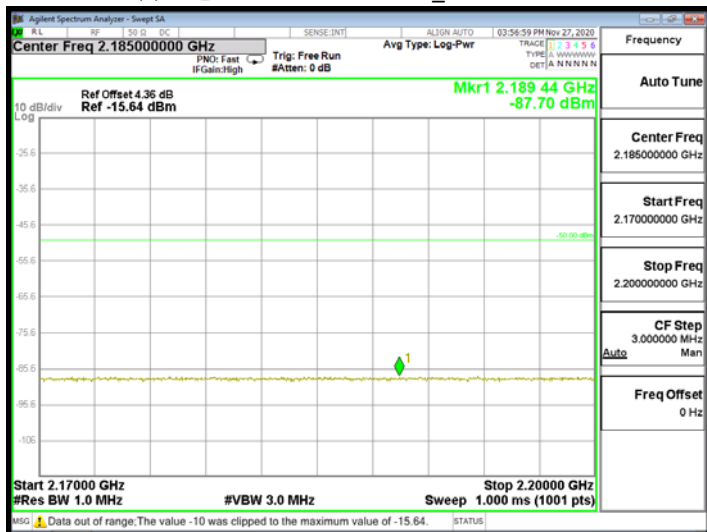


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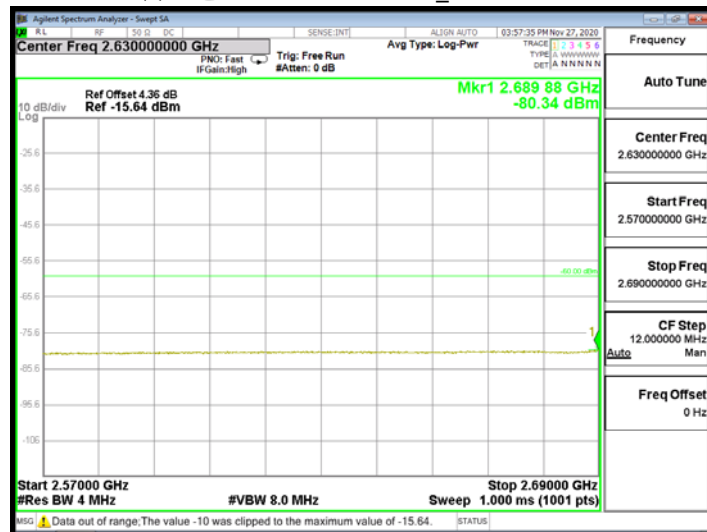
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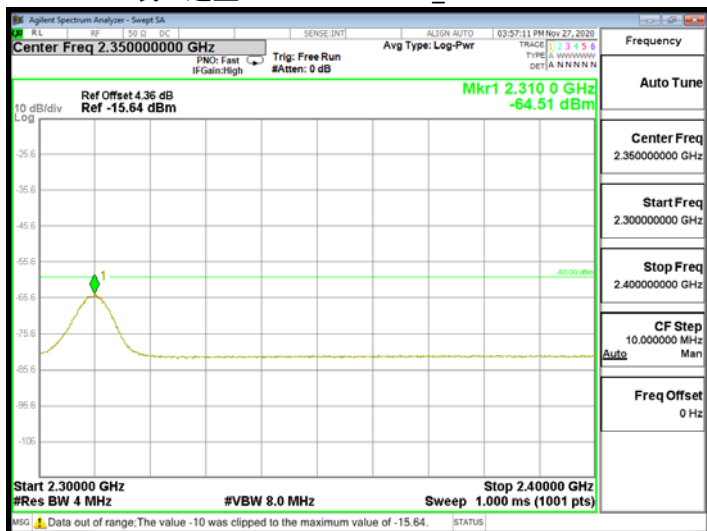
表一之五-19.2170-2200 MHz_UARFCN9613



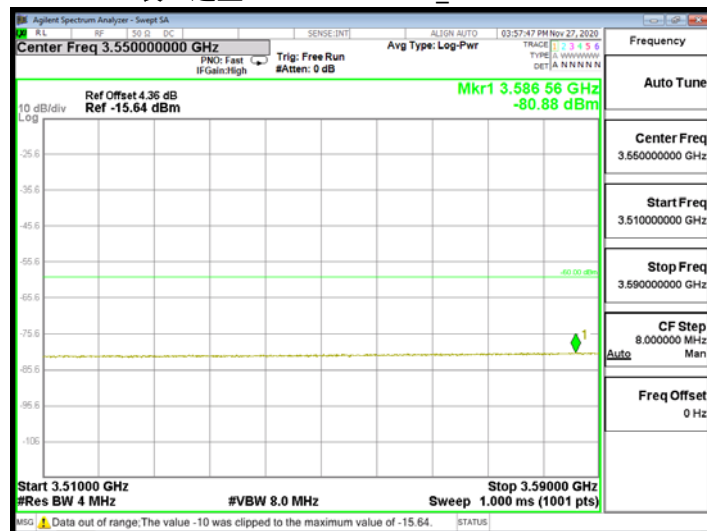
表一之五-22.2570-2690 MHz_UARFCN9613



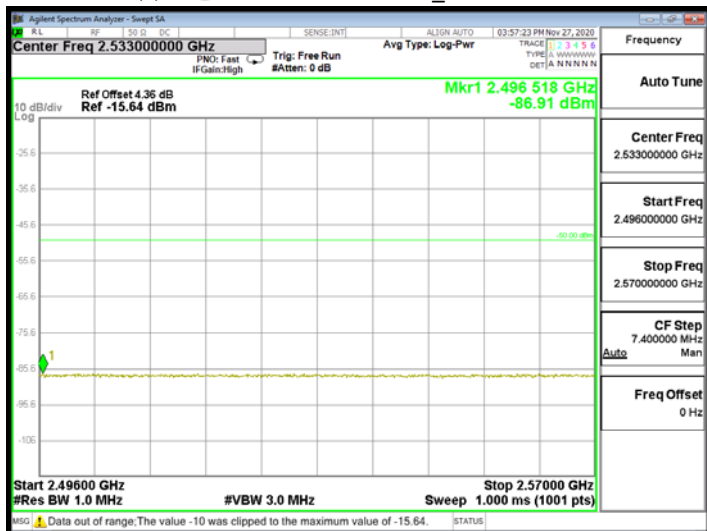
表一之五-20.2300-2400 MHz_UARFCN9613



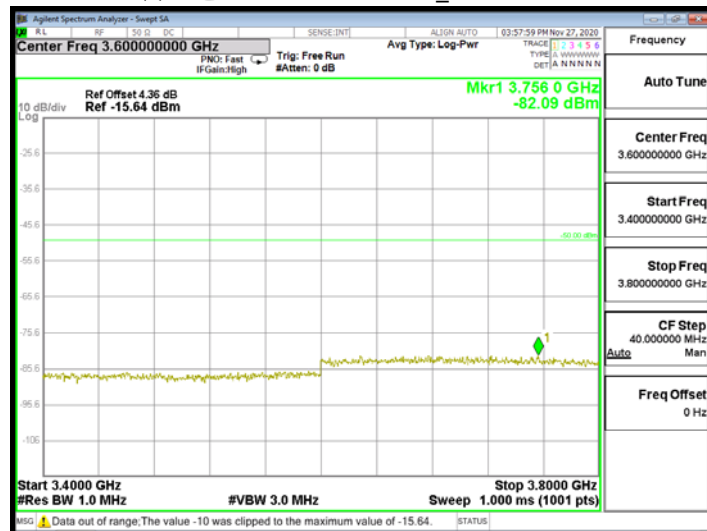
表一之五-23.3510-3590 MHz_UARFCN9613



表一之五-21.2496-2570 MHz_UARFCN9613



表一之五-24.3400-3800 MHz_UARFCN9613

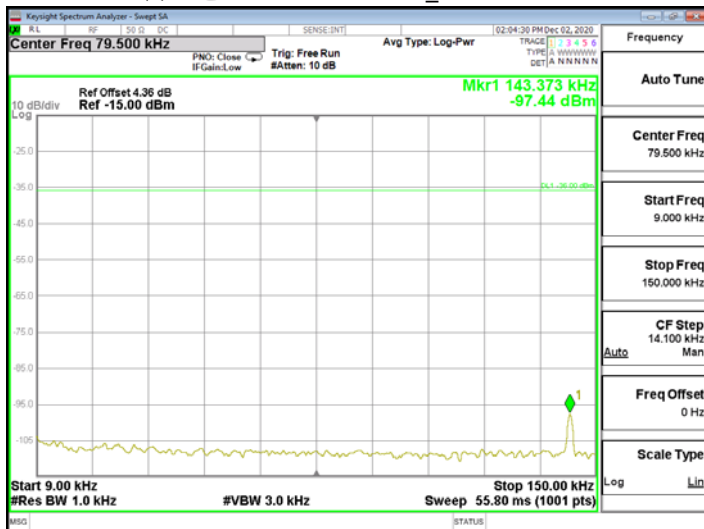


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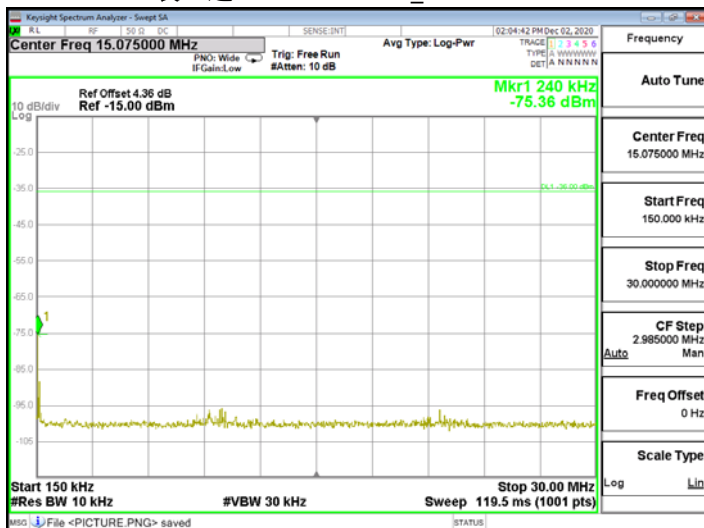
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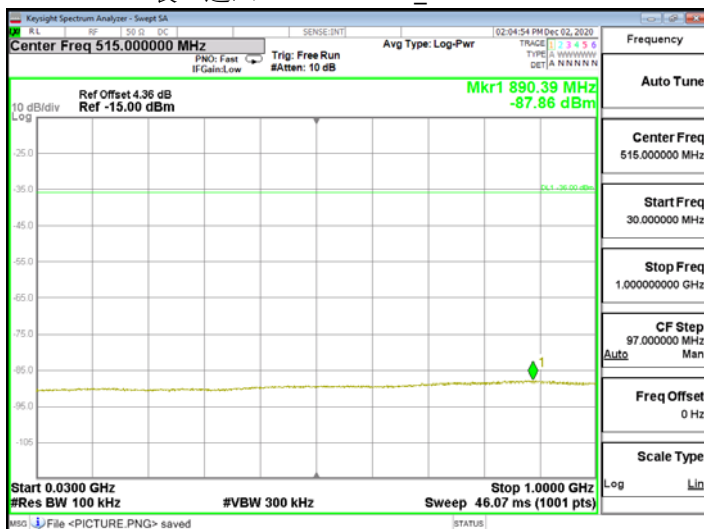
表一之四-1.009-0.15 MHz_UARFCN9613



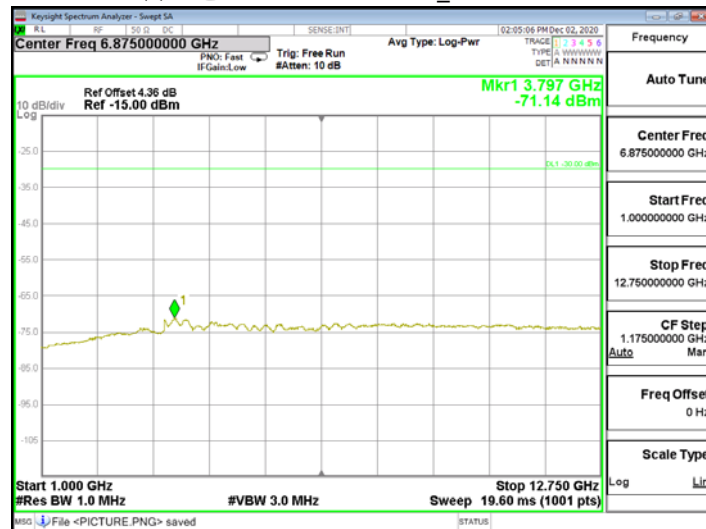
表一之四-2.0.15-30 MHz_UARFCN9613



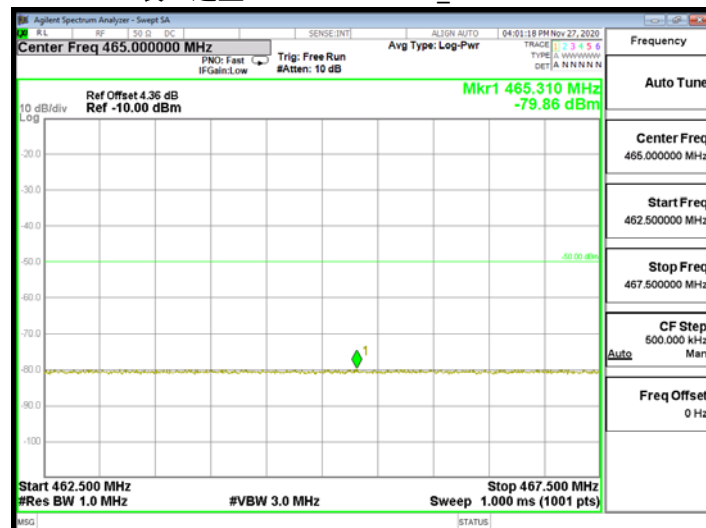
表一之四-3.30-1000 MHz_UARFCN9613



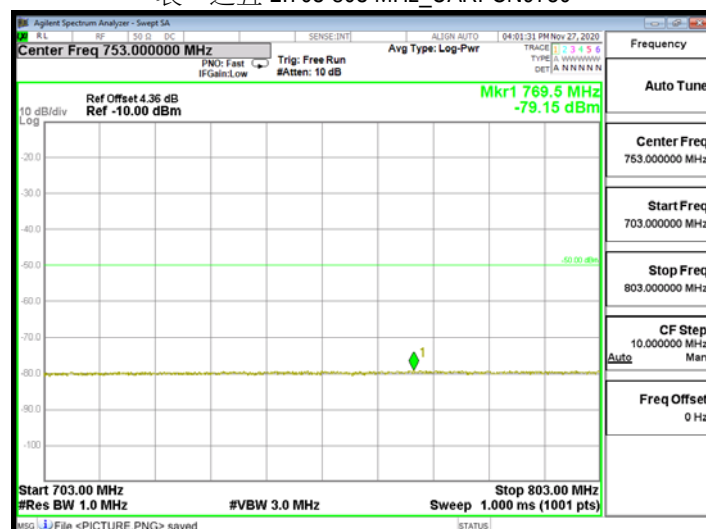
表一之四-4.1000-12750 MHz_UARFCN9613



表一之五-1.462.5-467.5 MHz_UARFCN9750



表一之五-2.703-803 MHz_UARFCN9750



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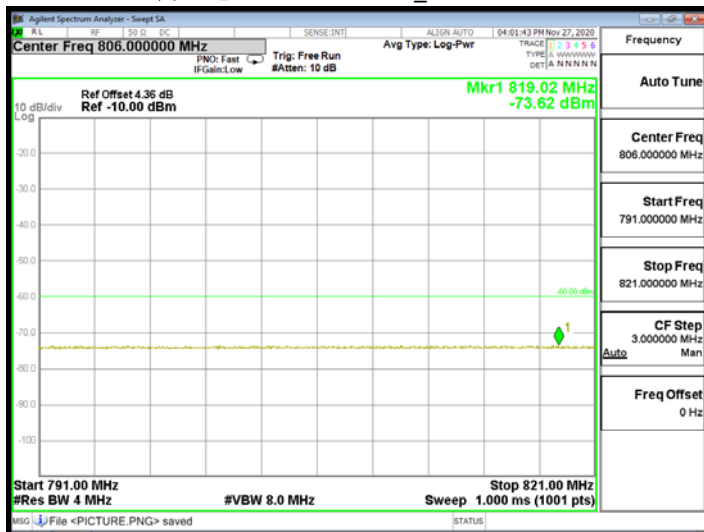
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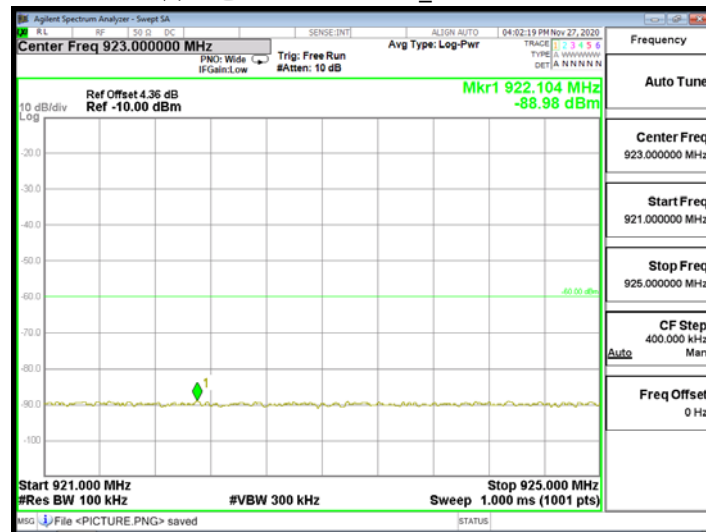
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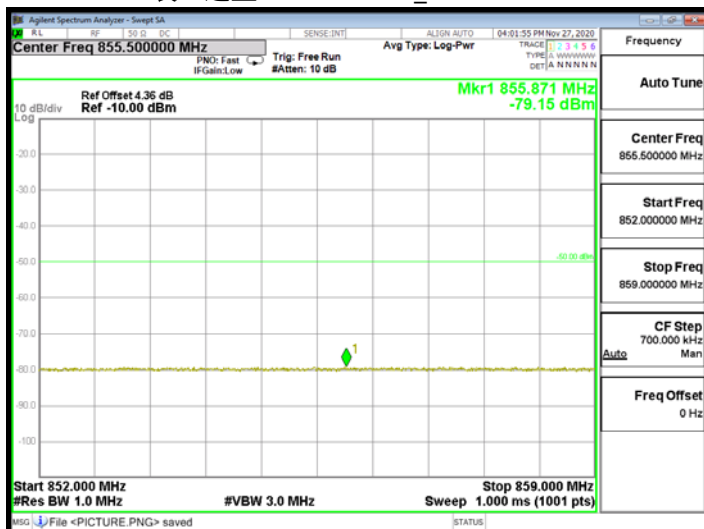
表一之五-3.791-821 MHz_UARFCN9750



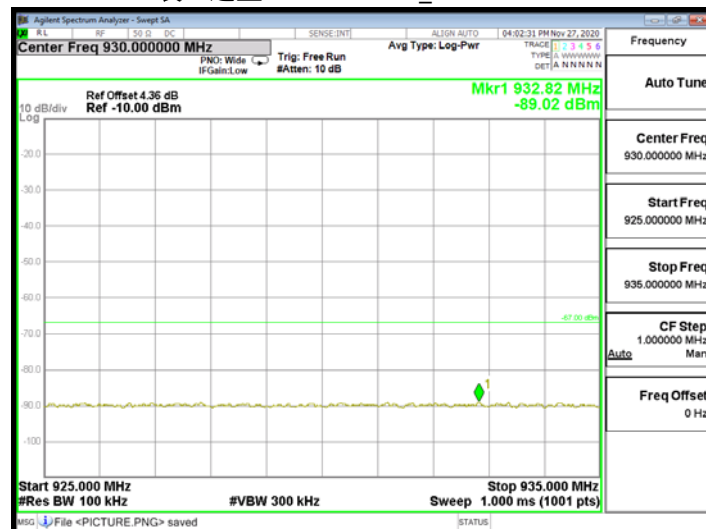
表一之五-6.921-925 MHz_UARFCN9750



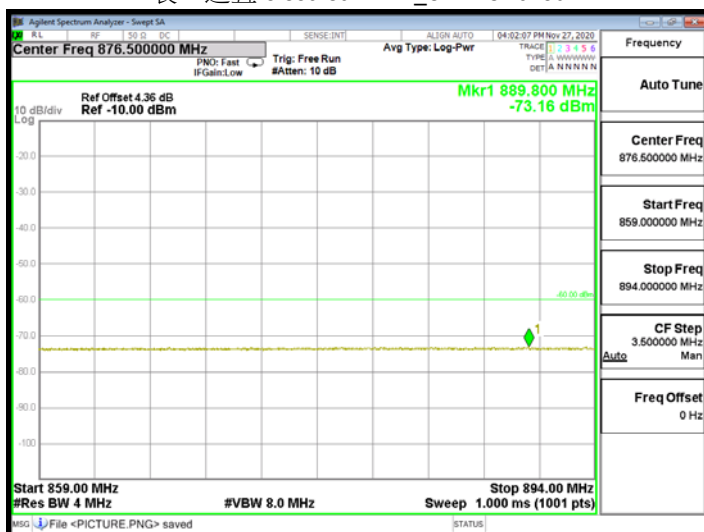
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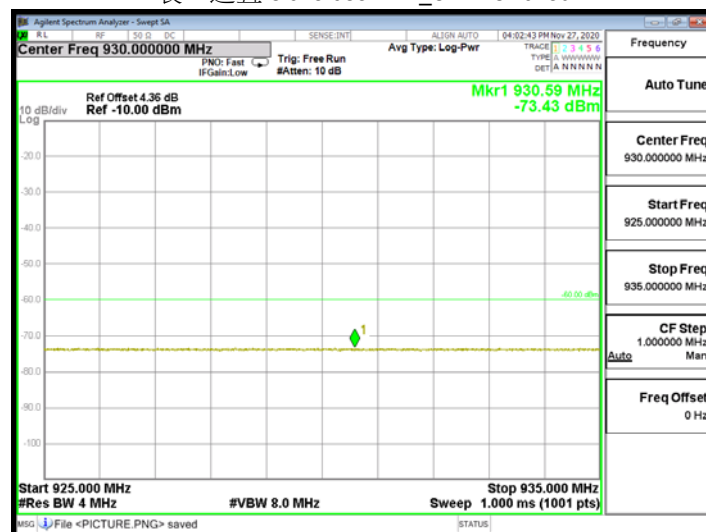
表一之五-7.925-935 MHz_UARFCN9750



表一之五-5.859-894 MHz_UARFCN9750



表一之五-8.925-935 MHz_UARFCN9750

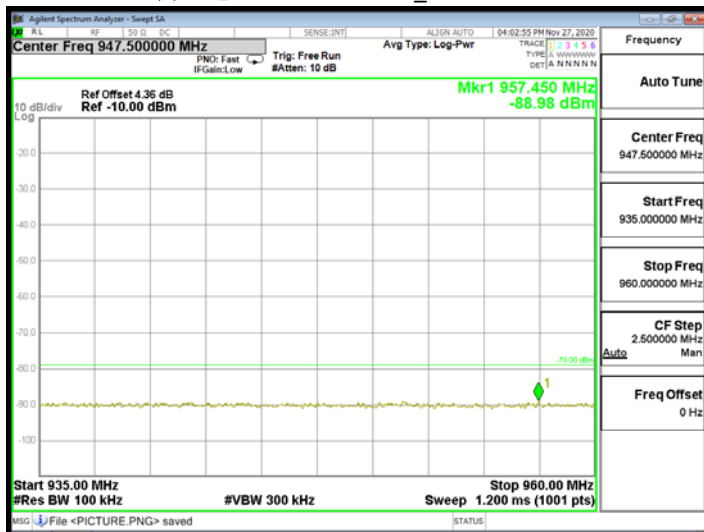


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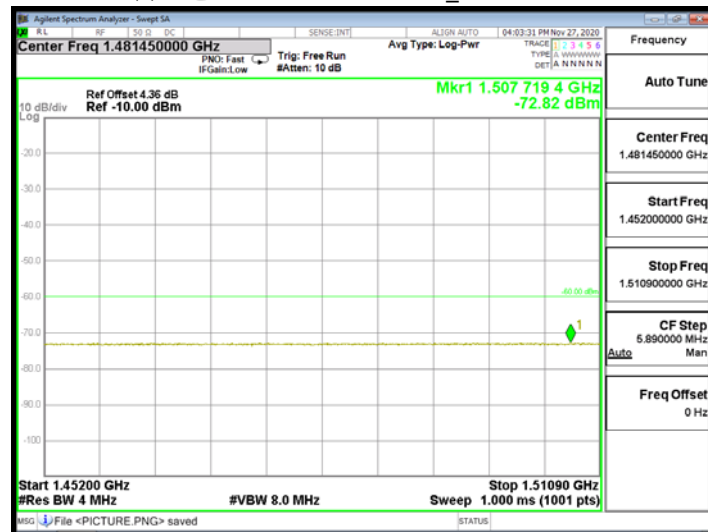
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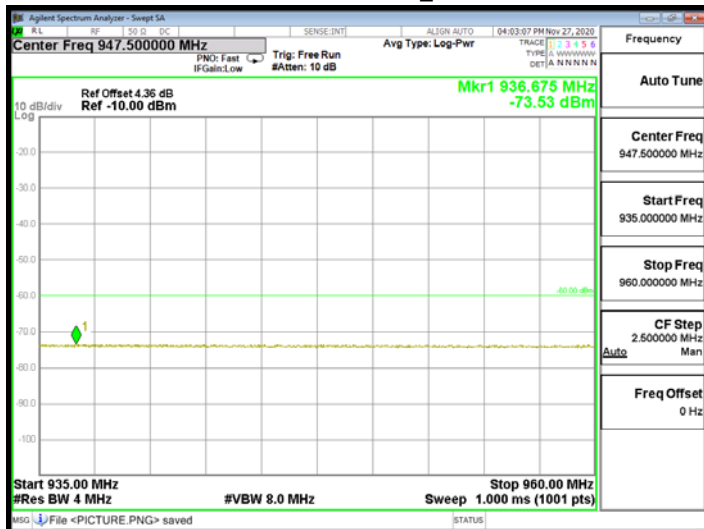
表一之五-9.935-960 MHz_UARFCN9750



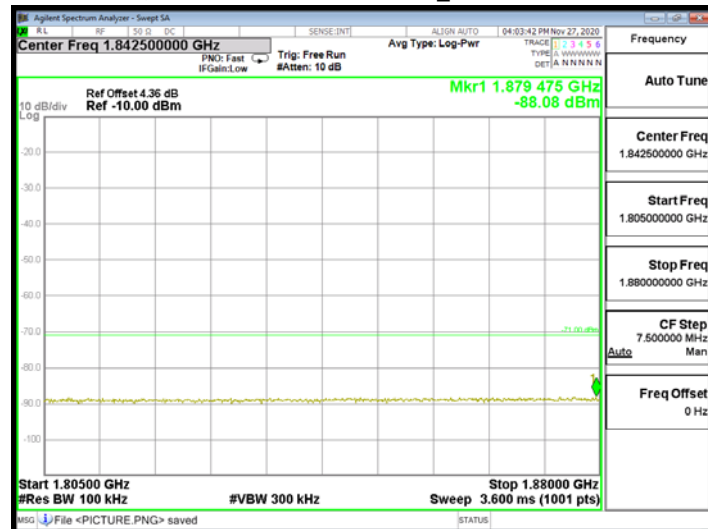
表一之五-12.1452-1510.9 MHz_UARFCN9750



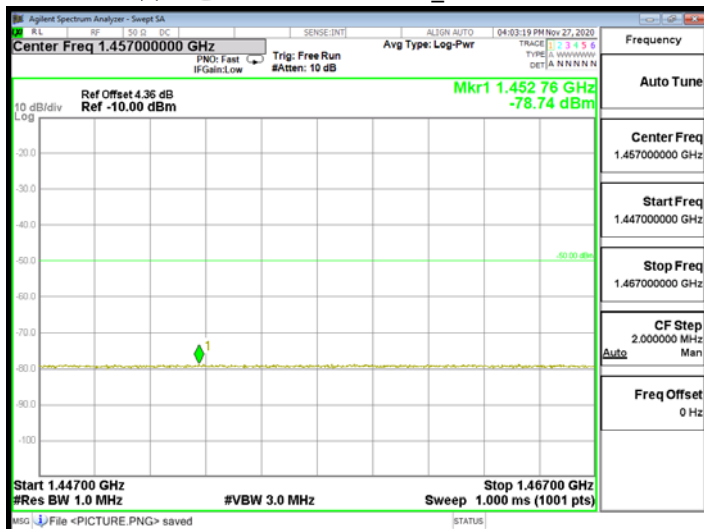
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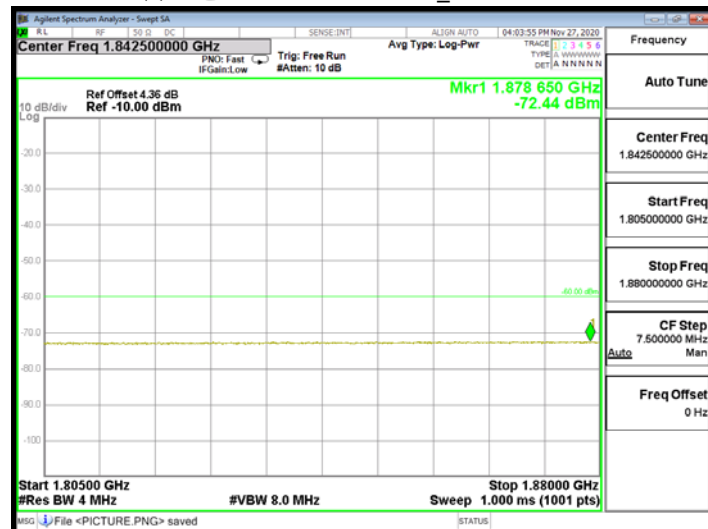
表一之五-13.1805-1880 MHz_UARFCN9750



表一之五-11.1447-1467 MHz_UARFCN9750



表一之五-14.1805-1880 MHz_UARFCN9750



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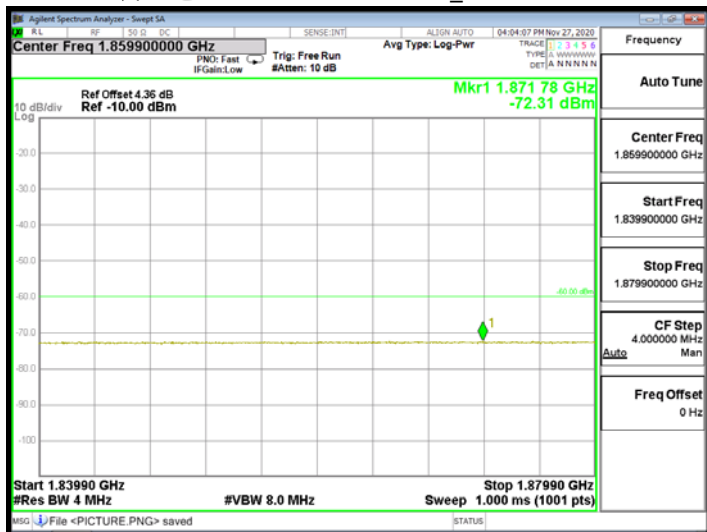
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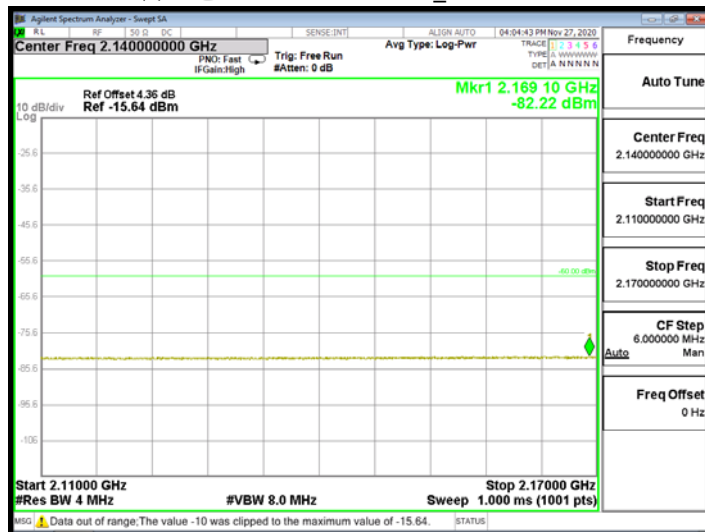
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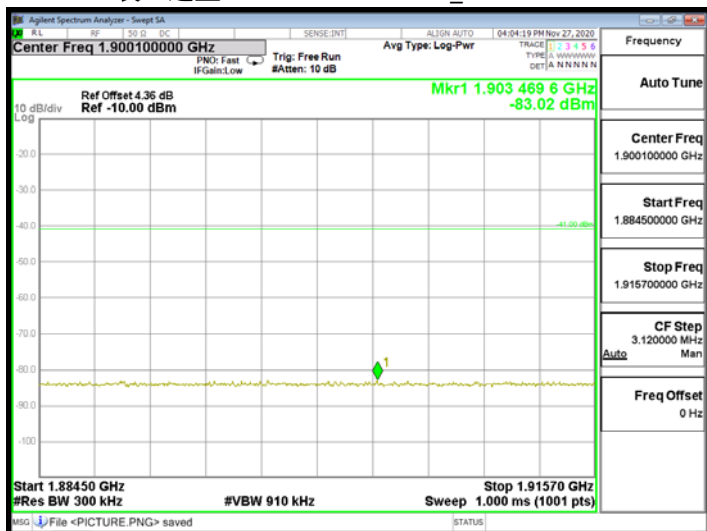
表一之五-15.1839.9-1879.9 MHz_UARFCN9750



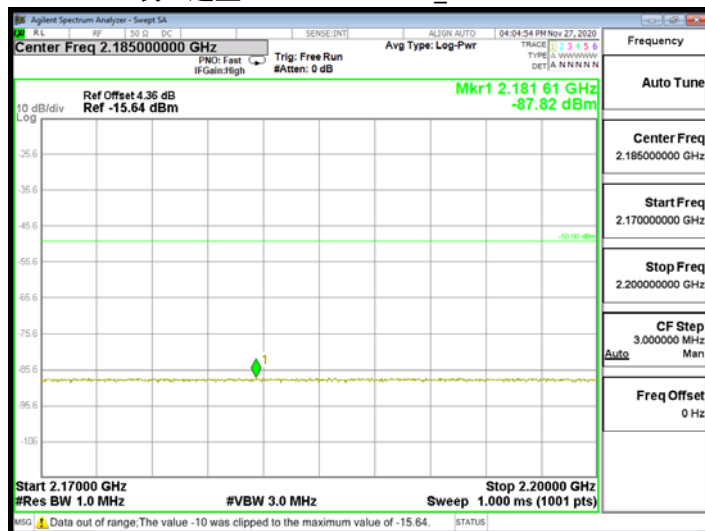
表一之五-18.2110-2170 MHz_UARFCN9750



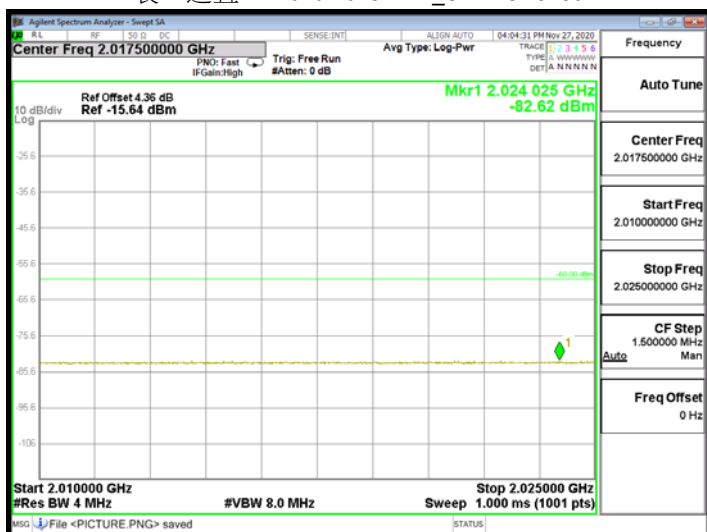
表一之五-16.1884.5-1915.7 MHz_UARFCN9750



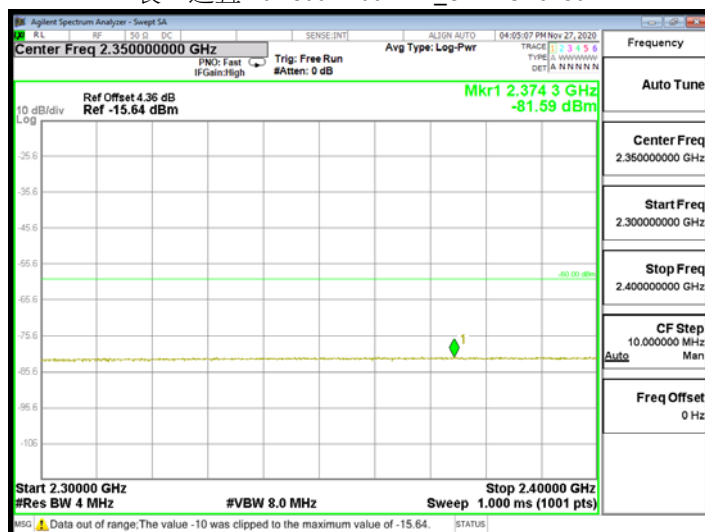
表一之五-19.2170-2200 MHz_UARFCN9750



表一之五-17.2010-2025 MHz_UARFCN9750



表一之五-20.2300-2400 MHz_UARFCN9750

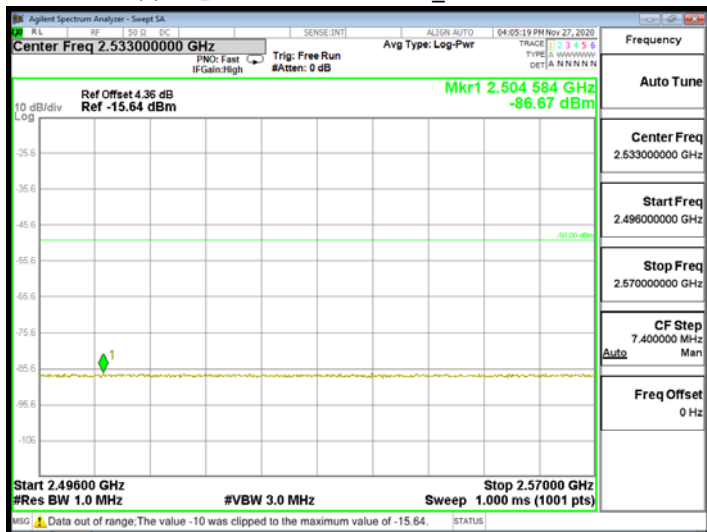


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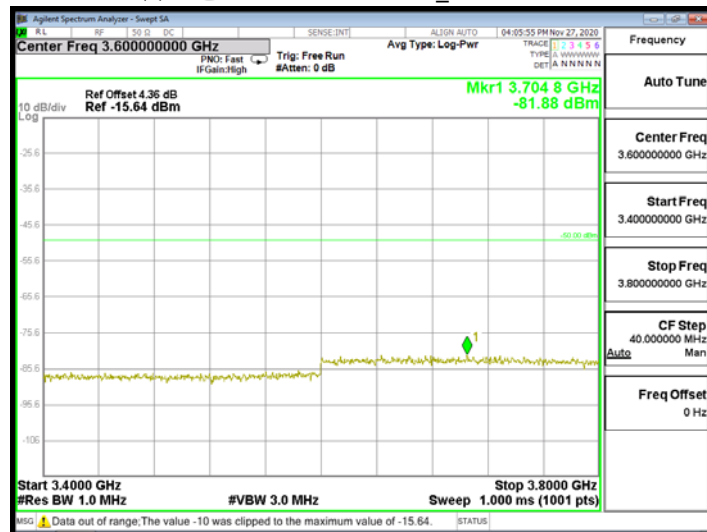
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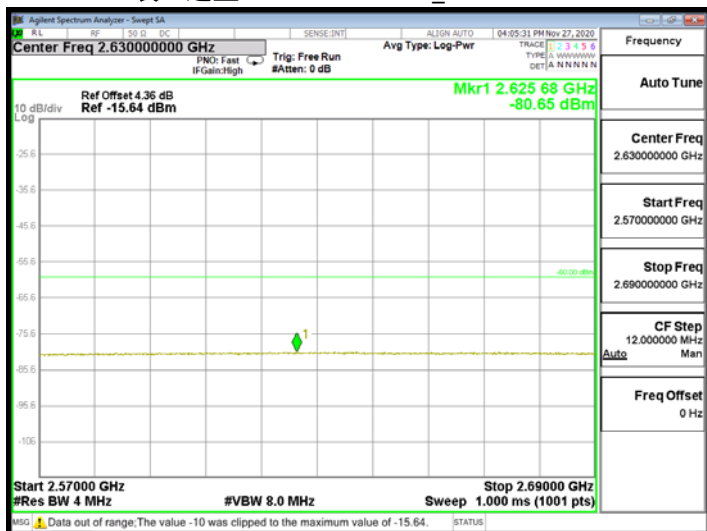
表一之五-21.2496-2570 MHz_UARFCN9750



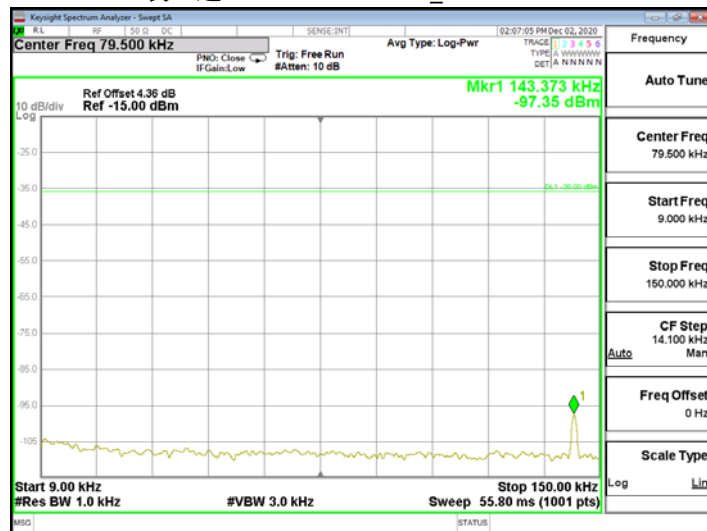
表一之五-24.3400-3800 MHz_UARFCN9750



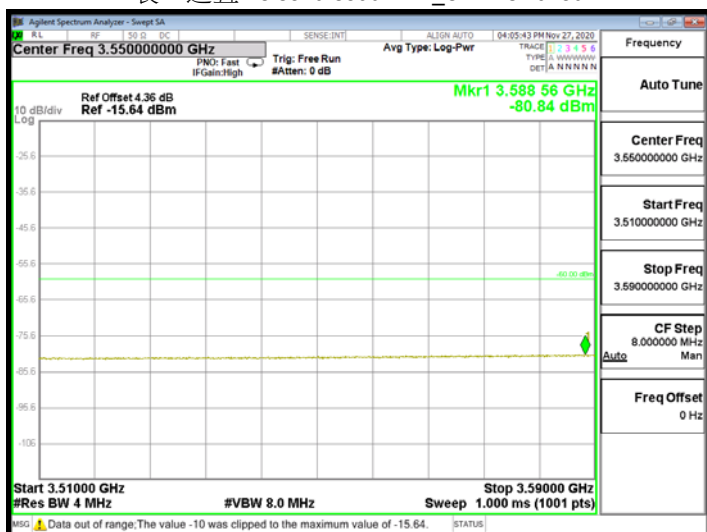
表一之五-22.2570-2690 MHz_UARFCN9750



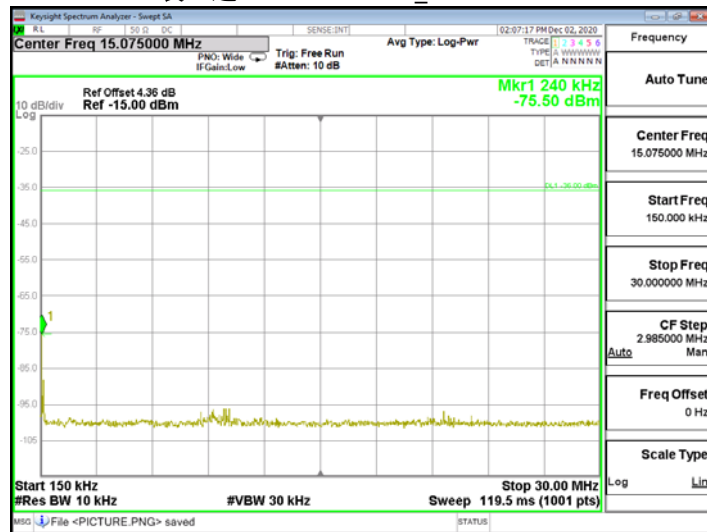
表一之四-1.0.009-0.15 MHz_UARFCN9750



表一之五-23.3510-3590 MHz_UARFCN9750



表一之四-2.0.15-30 MHz_UARFCN9750

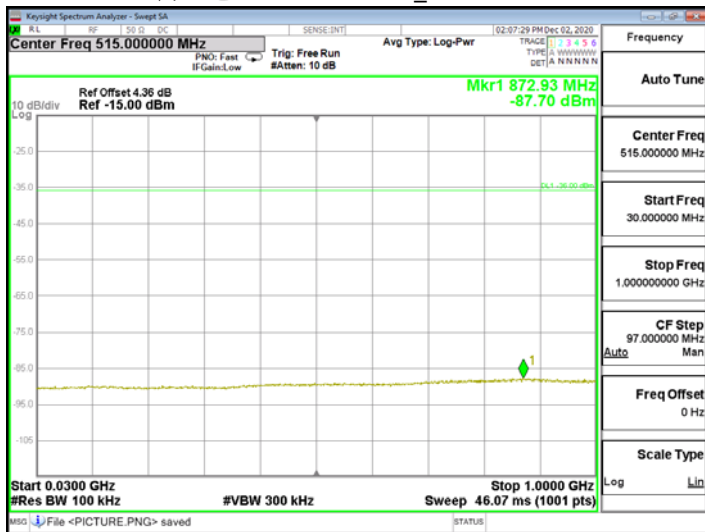


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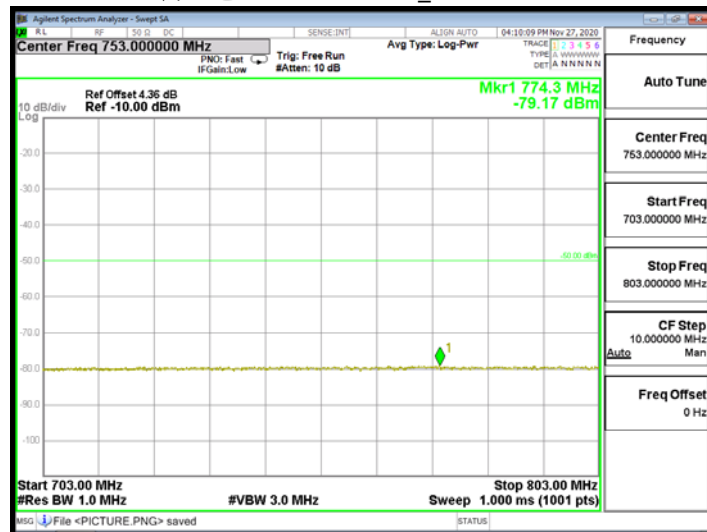
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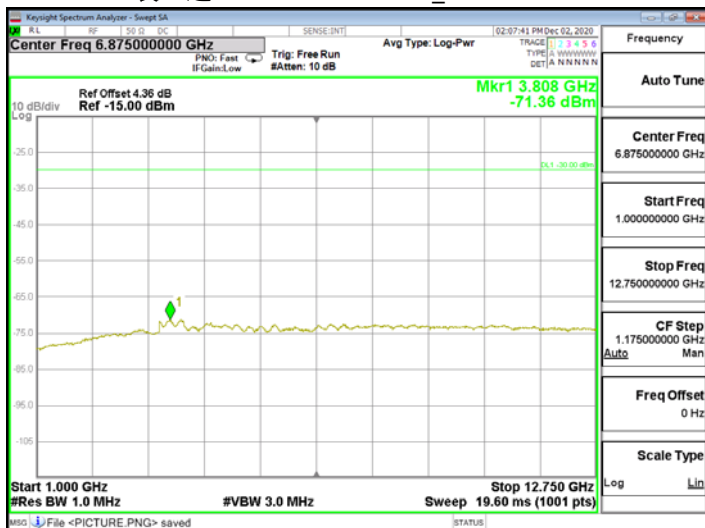
表一之四-3.30-1000 MHz_UARFCN9750



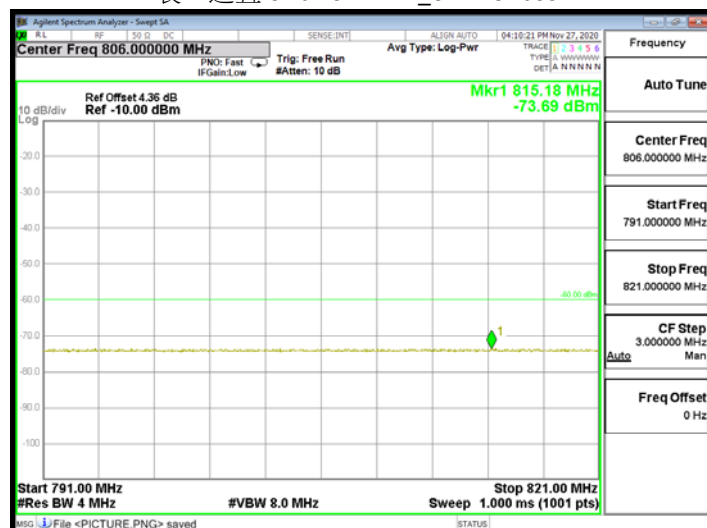
表一之五-2.703-803 MHz_UARFCN9887



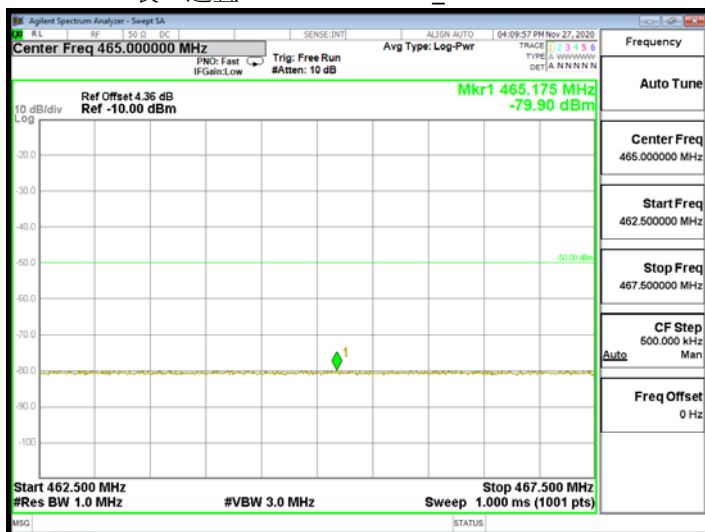
表一之四-4.1000-12750 MHz_UARFCN9750



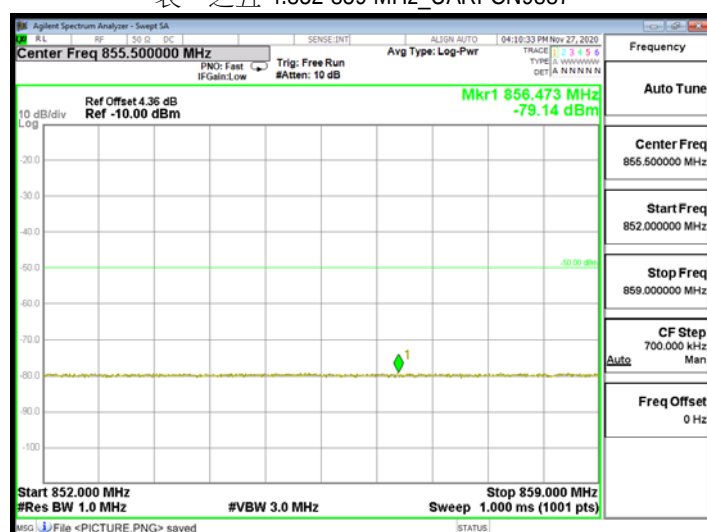
表一之五-3.791-821 MHz_UARFCN9887



表一之五-1.462.5-467.5 MHz_UARFCN9887



表一之五-4.852-859 MHz_UARFCN9887



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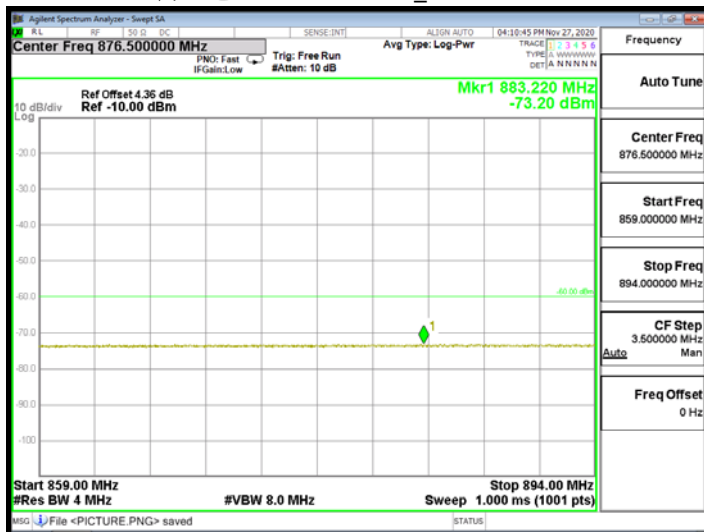
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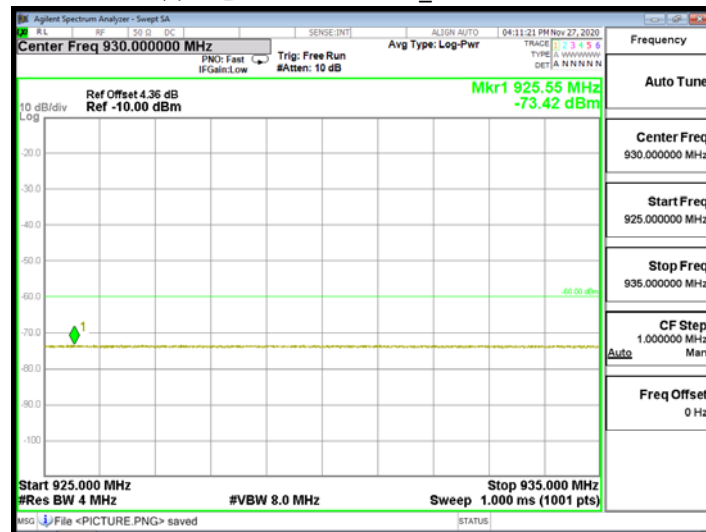
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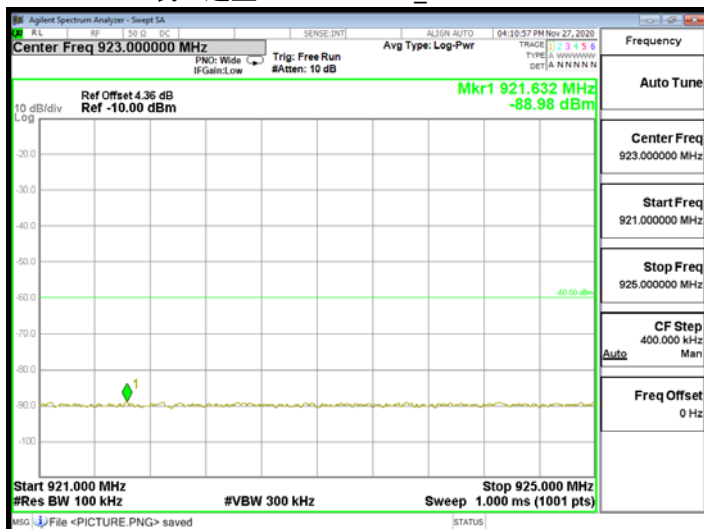
表一之五-5.859-894 MHz_UARFCN9887



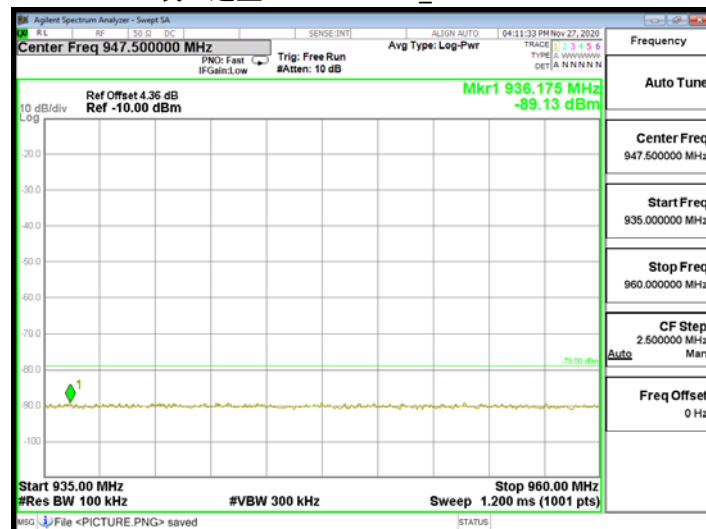
表一之五-8.925-935 MHz_UARFCN9887



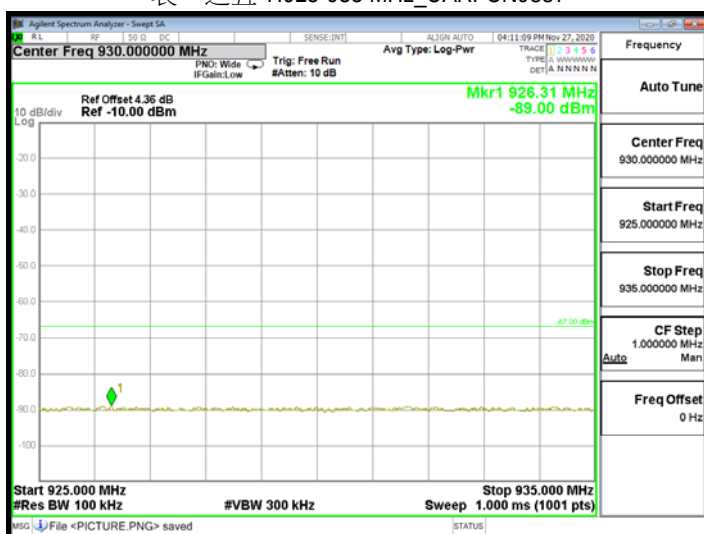
表一之五-6.921-925 MHz_UARFCN9887



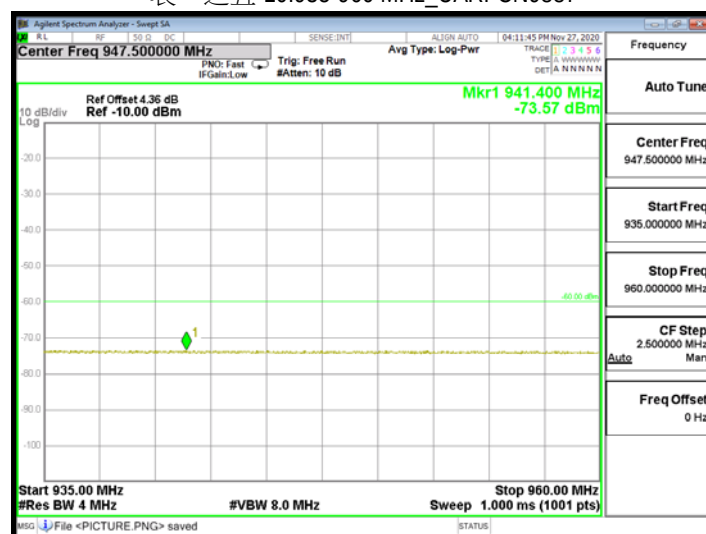
表一之五-9.935-960 MHz_UARFCN9887



表一之五-7.925-935 MHz_UARFCN9887



表一之五-10.935-960 MHz_UARFCN9887

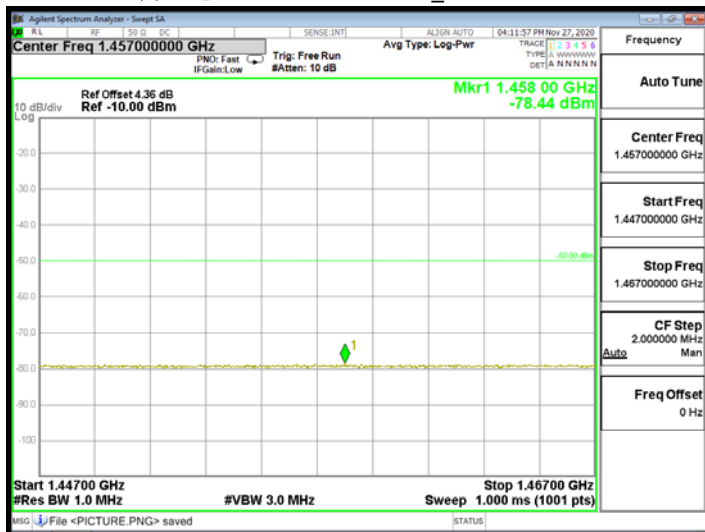


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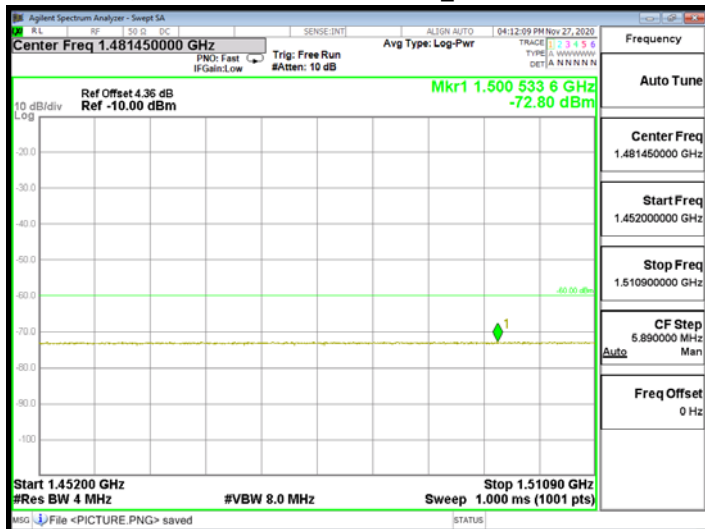
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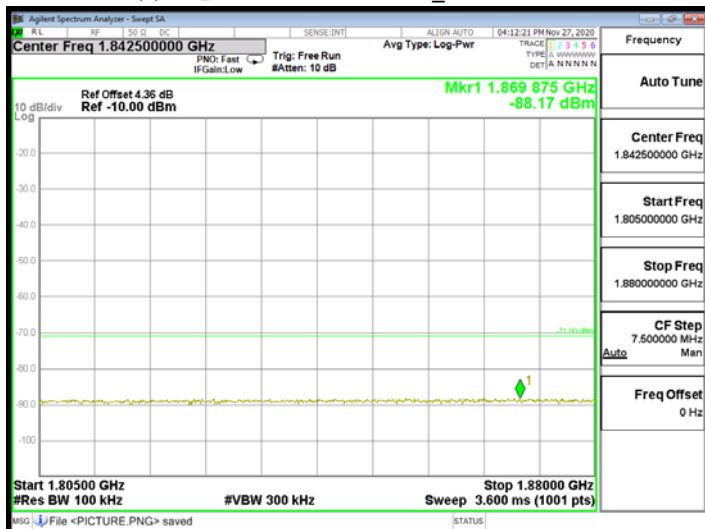
表一之五-11.1447-1467 MHz_UARFCN9887



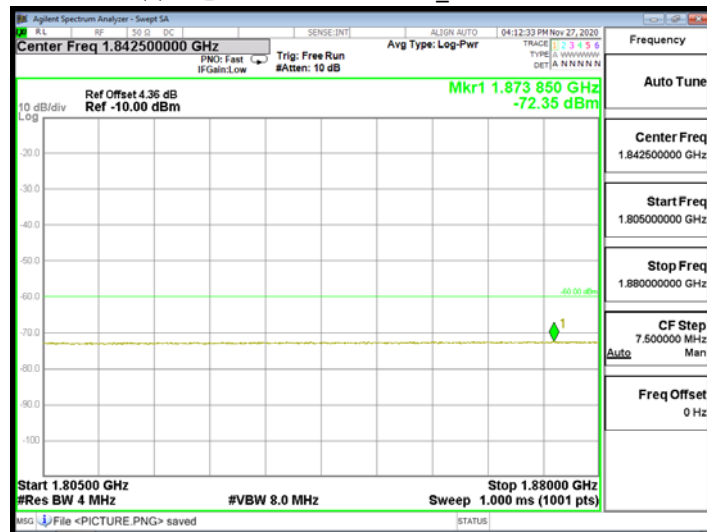
表一之五-12.1452-1510.9 MHz_UARFCN9887



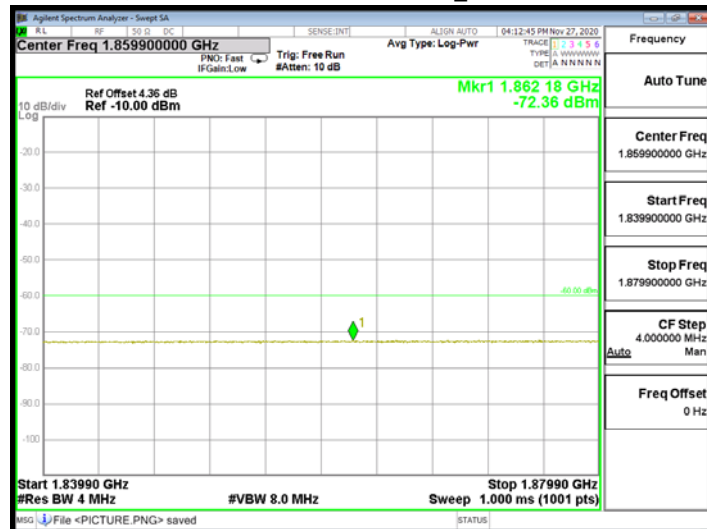
表一之五-13.1805-1880 MHz_UARFCN9887



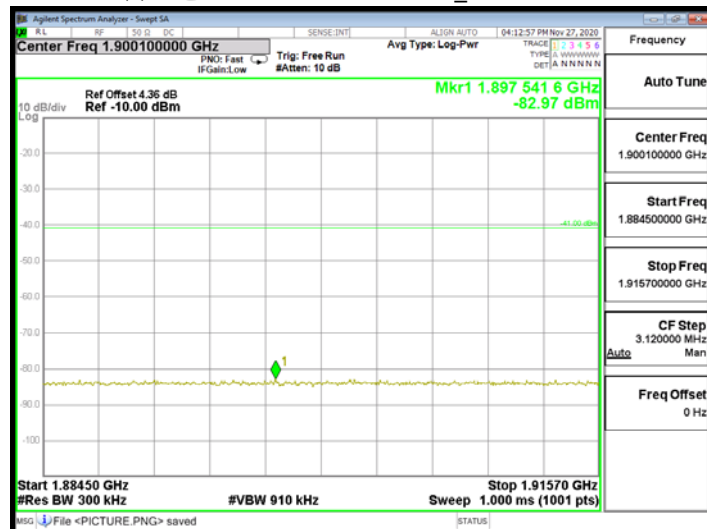
表一之五-14.1805-1880 MHz_UARFCN9887



表一之五-15.1839.9-1879.9 MHz_UARFCN9887



表一之五-16.1884.5-1915.7 MHz_UARFCN9887



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