



NCC

行動通信電信終端設備技術規範試驗報告

產品名稱 : 手持式行動電話機
型號 : F28
廠牌 : INHON
商標 : INHON
申請者 : 海岳科技有限公司
申請者地址 : 新北市新莊區新北大道 3 段 7 號 2 樓之 2
測試標準 : PLMN ALL (109 年版)
適用範圍 : LTE 終端設備(PLMN10)
測試結果 : 符合
接收日期 : 2021/12/22
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測試工程師 : 
(許丞哲)
報告審核人 : 
(陳柏均)
報告簽署人 : 
(柯承志)



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修訂紀錄

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1. 一般資訊

申請者	海岳科技有限公司
申請者地址	新北市新莊區新北大道 3 段 7 號 2 樓之 2
製造商	瑞科通訊科技有限公司
製造商地址	廣東省深圳市南山區麗水路同富裕工業城 5 棟 1 樓
實驗室	台灣曼瑞檢測科技有限公司
實驗室地址	33377 台灣桃園市龜山區復興二路 38 號
實驗室資訊	1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm. 2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada. 3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.
實驗室測試環境條件	溫度 (°C) : 20-35 / 濕度 (%RH) : 30-65

2. 產品描述

2.1 產品資訊

產品名稱	手持式行動電話機		
產品型號	F28		
廠牌	INHON		
商標	INHON		
支援規格	WPAN: Bluetooth Dual Mode: V4.1 WLAN: 2.4G: 802.11b/g/n-20/n-40 WWAN: 3G: Band 1 4G: Band 1,3,7,8		
IMEI 碼	356536099836671		
天線樣式	PIFA Antenna		
天線規格	Brand : 深圳市酷銳傑通信技術有限公司 M/N: F28 Gain: Band1: 1.5dBi, Band3: 0.4dBi, Band7: 0.5dBi, Band8: -1.2dBi,		
Frequency Range and Bandwidth	Band: Tx Frequency	Rx Frequency	Bandwidth (MHz)
	B1: 1920-1980MHz	2110-2170MHz	5M/10M/15M/20M
	B3: 1710-1785MHz	1805-1880MHz	1.4M/3M/5M/10M/15M/20M
	B7: 2500-2570MHz	2620-2690MHz	5M/10M/15M/20M
	B8: 885-915MHz	930-960MHz	1.4M/3M/5M/10M
Modulation Type	QPSK/ 16QAM		
是否有照相功能	☒ 有 (聲響 : ☒ 有; ☐ 無) ☐ 無		

配件	
電源供應器	Brand: INHON Model No: XCM27-U05100OYE Input: 100-240Vac,50/60Hz,0.3A Output: 5V,1A
電池	Brand: INHON Model No: F249 Rating: DC 3.7V, 1600mAh,5.92Wh
USB Cable	Brand: INHON Model No: CAB-1 Length: 1.2m
耳機	Brand: INHON Model No: F28 Length: 1.2m

2.2 產品規格

Band1 Channel	5M/1922.5MHz(CH 18025);1950MHz(CH 18300);1977.5MHz(CH 18575) 10M/1925MHz(CH 18050); 1950MHz(CH 18300);1975MHz(CH 18550) 15M/1927.5MHz(CH 18075); 1950MHz(CH 18300);1972.5MHz(CH 18525) 20M/1930MHz(CH 18300); 1950MHz(CH 18300);1970MHz(CH 18500)
Band3 Channel	1.4M/1710.7MHz(CH 19207);1747.5MHz(CH 19575);1784.3MHz(CH 19943) 3M/1711.5MHz(CH 19215);1747.5MHz(CH 19575);1783.5MHz(CH 19935) 5M/1712.5MHz(CH 19225);1747.5MHz(CH 19575);1782.5MHz(CH 19925) 10M/1715MHz(CH 19250);1747.5MHz(CH 19575);1780MHz(CH 19900) 15M/1717.5MHz(CH 19275);1747.5MHz(CH 19575);1777.5MHz(CH 19875) 20M/1720MHz(CH 19300);1747.5MHz(CH 19575);1775MHz(CH 19850)
Band7 Channel	5M/2502.5MHz(CH 20775);2535MHz(CH 21100);2567.5MHz(CH 21425) 10M/2505MHz(CH 20800); 2535MHz(CH 21100);2565MHz(CH 21400) 15M/2507.5MHz(CH 20825); 2535MHz(CH 21100);2562.5MHz(CH 21375) 20M/2510MHz(CH 20850); 2535MHz(CH 21100);2560MHz(CH 21350)
Band8 Channel	1.4M/885.7MHz(CH 21507);900MHz(CH 21650);914.3MHz(CH 21793) 3M/886.5MHz(CH21515); 900MHz(CH 21650);913.5MHz(CH 21785) 5M/887.5MHz(CH 21525); 900MHz(CH 21650);912.5MHz(CH 21775) 10M/890MHz(CH 21550); 900MHz(CH 21650);910MHz(CH 21750)

3. 測試設備明細

傳導測試 – SR5

儀器名稱	廠牌	型號	財產編號	校正週期	有效日期
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2022/10/18
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2022/7/19
Wideband Radio Communication Taster	R&S	CMW 500	MRTTWA00084	1 year	2022/10/18
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MRTTWA00089	1 year	2022/4/29
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2022/6/14

4. 量測不確定度

頻率穩定度量測 (Frequency Error)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 78.4\text{Hz}$
傳導功率量測 (Conducted Power)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
傳導干擾量測 (Conducted Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 2.65\text{ dB}$
佔用頻寬量測 (Occupied Bandwidth)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 3.3\%$
溫度 / 濕度 (Temp. / Humidity)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C}/ \pm 3\%$
直流電源 (DC Voltage)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.3\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5. 測試結果

產品名稱 手持式行動電話機
型號 F28

法規章節	量測項目	限制值	測試結果	測試數據
6.3.1	功率限制	有效輻射功率(Effective Radiated Power, ERP) 攜帶式終端設備限制為1 W。 移動式終端設備限制為2 W。 傳導輸出功率限制值 採 FDD者：23dBm +2.7/-3.2 dB。 採 TDD 者：23dBm +2.7/-2.7 dB， 但設備屬高功率用戶終端設備(HPUE) 者，其傳導輸出功率限制值為 26 dBm +2.7/-2.7 dB。	符合	第 5.1 章節
6.3.2	發射頻譜波罩	須符合行動通信電信終端設備技術規範附表 47 之頻譜波罩規範值	符合	第 5.2 章節
6.3.3	傳導帶外輻射發射	須符合行動通信電信終端設備技術規範附表 49 之帶外輻射規範值	符合	第 5.3 章節
6.3.4	相鄰頻道洩漏功率比 (ACLR)	≤ 29.2dB，但設備屬 HPUE 者限制值為 30.2 dB。	符合	第 5.4 章節
6.3.5	頻率穩定度	± 0.1PPM 以內	符合	第 5.5 章節
6.6.2.1	電波功率密度	適用移動式或固定式無線接取終端設備 700 MHz 頻段為 0.35 毫瓦特/平方公分(mW/cm ²)； 900 MHz 頻段為 0.45 mW/cm ² ； 1800 MHz 頻段為 0.9 mW/cm ² ； 2100 MHz、2500 MHz 與2600 MHz頻段為1.0 mW/cm ² 。 量測距離為 20 公分，或以設備廠商宣告設備天線與附近 人體可活動範圍之距離。	符合	第 5.6 章節
6.10.1	災防告警細胞廣播訊息 接收功能	本項測試僅適用 介面攜帶式終端設備且具接取行動通信服務經營者提供之 語音服務功能者。	請參考報告編號 BTL-NCC-2-2201T038	

備註：符合性的判定是基於測試結果符合規範的限制值或客戶的宣告要求，測試結果的判定是不考慮測量不確定度的值。

5.1 功率限制

5.1.1 合格標準

(1) 等效幅射功率(Effective Radiated Power, ERP)

- 攜帶式終端設備限制為 1W。
- 移動式終端設備限制為 2W。

(2) 傳導輸出功率限制為

- FDD 為: 23dBm +2.7/-3.2 dB。
- TDD 為: 23dBm +2.7/-2.7 dB。
- 但設備屬高功率用戶終端設備(HPUE)者，其傳導輸出功率限制值為 26 dBm +2.7/-2.7 dB。

5.1.2 測試方法

檢測頻道為低、中、高三個頻道，對最低、5MHz 及最高的工作頻寬之 QPSK 調變級數發射模式，均應分別檢測之。(請參照 3GPP TS 36.521-1 規定測試)。

(1) 等效幅射功率：

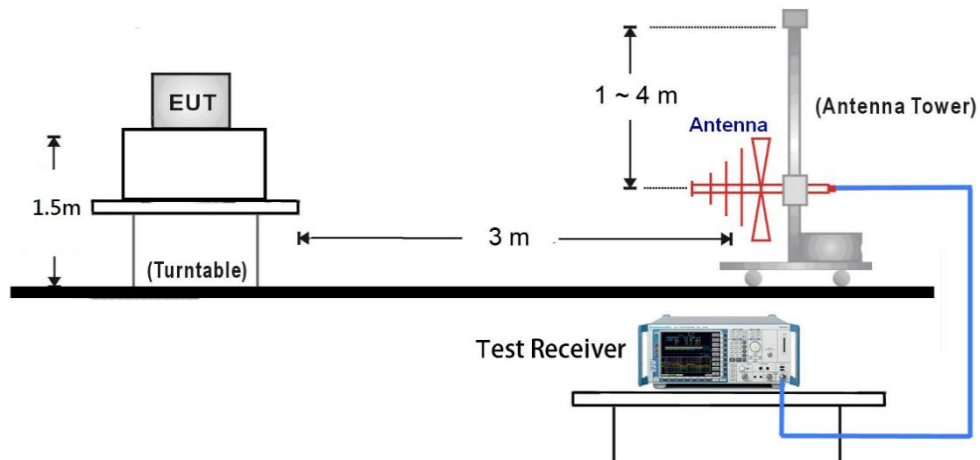
- a. 量測發射功率時，必須使用均方根值等效電壓之儀器量測於任何連續傳輸時段，量測結果須依儀器之反應時間、解析頻寬能力及靈敏度等調整得出正確之發射功率。對每一測量頻率調整儀器足夠之頻率掃描範圍以檢測所欲測量之發射。
- b. 在 1 到 4 米高度內上升下降水平極化之接收天線，將接收天線置於儀器顯示最高讀值時的高度，然後以 360 度轉動測試桌上的受測物，紀錄顯示在儀器上的最高值，以為參考位準。
- c. 以發射天線(不大於 1GHz 為線諧調之偶極天線，1GHz 以上為號角型天線)取代受測物，並與接收天線之同為水平極化。將偶極天線連接至標準之信號產生器，信號產生器設定至前述步驟所得之頻率以及適當之輸出位準。上升、下降接收天線使測試儀器量得最高值，並置於該高度。調整信號產生器之輸出位準以使測試儀器顯示與步驟 2 所得之值相同。紀錄此值以計算結果值。
- d. 若受測物相對於偶極天線(或全向性天線)之天線增益為已知，則 ERP(或 EIRP)可由天線端子之傳導輸出功率與天線增益之積求得。

(2) 傳導輸出功率：

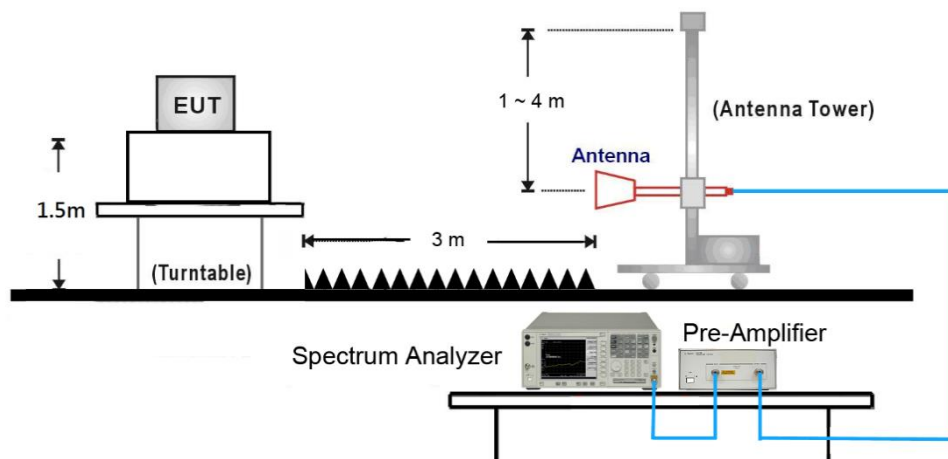
發射機輸出功率的測量藉由模擬基地台調諧頻率至測量頻率並量測其峰值。

5.1.3 實驗方法方塊圖

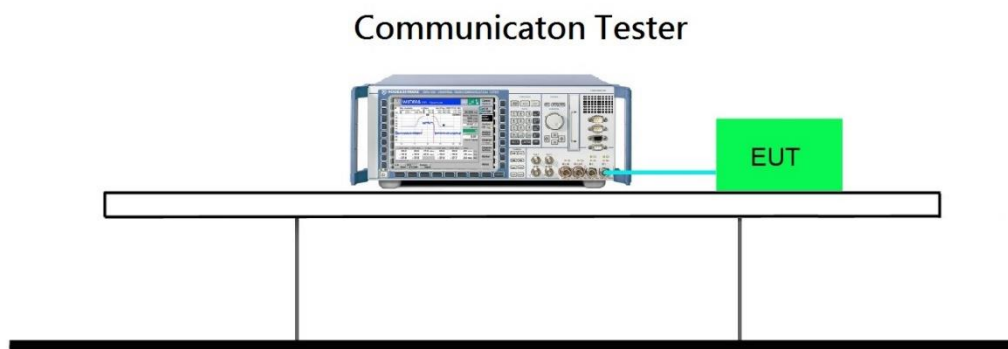
(1) 等效輻射功率 (1G 以下):



(2) 等效輻射功率 (1G 以上):



(3) 傳導輸出功率 :



5.1.4 實驗數據

Band 1 (2100MHz) FDD									
Bandwidth	Channel	Modulation	RB No.	RB Offset	Max Power (Conducted)	Limit (dBm)	Antenna Gain (dBi)	Max Power (ERP) (dBm)	ERP Limit (dBm)
5MHz	18025	QPSK	1	#0	22.80	19.8~25.7	1.50	22.15	30
			8	#0	22.88	19.8~25.7	1.50	22.23	30
	18300	QPSK	1	#0	22.99	19.8~25.7	1.50	22.34	30
			8	#0	22.80	19.8~25.7	1.50	22.15	30
	18575	QPSK	1	#24	22.74	19.8~25.7	1.50	22.09	30
			8	#17	22.91	19.8~25.7	1.50	22.26	30
20MHz	18100	QPSK	1	#0	22.31	19.8~25.7	1.50	21.66	30
			18	#0	22.61	19.8~25.7	1.50	21.96	30
	18300	QPSK	1	#0	22.45	19.8~25.7	1.50	21.80	30
			18	#0	22.57	19.8~25.7	1.50	21.92	30
	18500	QPSK	1	#99	22.30	19.8~25.7	1.50	21.65	30
			18	#82	22.61	19.8~25.7	1.50	21.96	30

Note: ERP= Conducted Power + Antenna Gain(dBi) - 2.15.

Band 3 (1800MHz) FDD									
Bandwidth	Channel	Modulation	RB No.	RB Offset	Max Power (Conducted)	Limit (dBm)	Antenna Gain (dBi)	Max Power (ERP) (dBm)	ERP Limit (dBm)
1.4MHz	19207	QPSK	1	#0	23.04	19.8~25.7	0.40	21.29	30
	19575	QPSK	1	#0	22.99	19.8~25.7	0.40	21.24	30
			5	#0	22.99	19.8~25.7	0.40	21.24	30
	19943	QPSK	1	#0	22.79	19.8~25.7	0.40	21.04	30
5MHz	19225	QPSK	1	#0	22.80	19.8~25.7	0.40	21.05	30
			1	#24	22.94	19.8~25.7	0.40	21.19	30
	19575	QPSK	1	#0	22.93	19.8~25.7	0.40	21.18	30
			1	#24	23.00	19.8~25.7	0.40	21.25	30
			8	#0	22.99	19.8~25.7	0.40	21.24	30
	19925	QPSK	1	#0	22.60	19.8~25.7	0.40	20.85	30
			1	#24	22.52	19.8~25.7	0.40	20.77	30
20MHz	19300	QPSK	1	#0	22.72	19.8~25.7	0.40	20.97	30
			1	#99	22.68	19.8~25.7	0.40	20.93	30
	19575	QPSK	1	#0	22.81	19.8~25.7	0.40	21.06	30
			1	#99	22.79	19.8~25.7	0.40	21.04	30
			18	#0	22.88	19.8~25.7	0.40	21.13	30
	19850	QPSK	1	#0	22.62	19.8~25.7	0.40	20.87	30
			1	#99	22.48	19.8~25.7	0.40	20.73	30

Note: ERP= Conducted Power + Antenna Gain(dBi) - 2.15.

Band 7 (2600MHz) FDD									
Bandwidth	Channel	Modulation	RB No.	RB Offset	Max Power (Conducted)	Limit (dBm)	Antenna Gain (dBi)	Max Power (ERP) (dBm)	ERP Limit (dBm)
5MHz	20775	QPSK	1	#0	23.23	19.8~25.7	0.50	21.58	30
			1	#24	23.23	19.8~25.7	0.50	21.58	30
	21100	QPSK	1	#0	23.70	19.8~25.7	0.50	22.05	30
			1	#24	23.82	19.8~25.7	0.50	22.17	30
			8	#0	23.65	19.8~25.7	0.50	22.00	30
	21425	QPSK	1	#0	23.98	19.8~25.7	0.50	22.33	30
			1	#24	23.97	19.8~25.7	0.50	22.32	30
20MHz	20850	QPSK	1	#0	23.13	19.8~25.7	0.50	21.48	30
			1	#99	23.10	19.8~25.7	0.50	21.45	30
	21100	QPSK	1	#0	23.42	19.8~25.7	0.50	21.77	30
			1	#99	23.64	19.8~25.7	0.50	21.99	30
			18	#0	23.49	19.8~25.7	0.50	21.84	30
	21350	QPSK	1	#0	23.62	19.8~25.7	0.50	21.97	30
			1	#99	23.80	19.8~25.7	0.50	22.15	30

Note: ERP= Conducted Power + Antenna Gain(dBi) - 2.15.

Band 8 (900MHz) FDD									
Bandwidth	Channel	Modulation	RB No.	RB Offset	Max Power (Conducted)	Limit (dBm)	Antenna Gain (dBi)	Max Power (ERP) (dBm)	ERP Limit (dBm)
1.4MHz	21507	QPSK	1	#0	22.48	19.8~25.7	-1.20	19.13	30
	21650	QPSK	1	#0	22.61	19.8~25.7	-1.20	19.26	30
			5	#0	22.60	19.8~25.7	-1.20	19.25	30
	21793	QPSK	1	#0	22.55	19.8~25.7	-1.20	19.20	30
5MHz	21525	QPSK	1	#0	22.45	19.8~25.7	-1.20	19.10	30
			1	#24	22.47	19.8~25.7	-1.20	19.12	30
	21650	QPSK	1	#0	22.63	19.8~25.7	-1.20	19.28	30
			1	#24	22.67	19.8~25.7	-1.20	19.32	30
			8	#0	22.57	19.8~25.7	-1.20	19.22	30
	21775	QPSK	1	#0	22.54	19.8~25.7	-1.20	19.19	30
			1	#24	22.47	19.8~25.7	-1.20	19.12	30
	10MHz	21550	QPSK	1	#0	22.47	19.8~25.7	-1.20	19.12
1				#49	22.59	19.8~25.7	-1.20	19.24	30
21650		QPSK	1	#0	22.65	19.8~25.7	-1.20	19.30	30
			1	#49	22.72	19.8~25.7	-1.20	19.37	30
			12	#0	22.61	19.8~25.7	-1.20	19.26	30
21750		QPSK	1	#0	22.52	19.8~25.7	-1.20	19.17	30
			1	#49	22.52	19.8~25.7	-1.20	19.17	30

Note: ERP= Conducted Power + Antenna Gain(dBi) - 2.15.

5.2 發射頻譜波罩

5.2.1 合格標準

需符合下表之頻譜波罩規範值

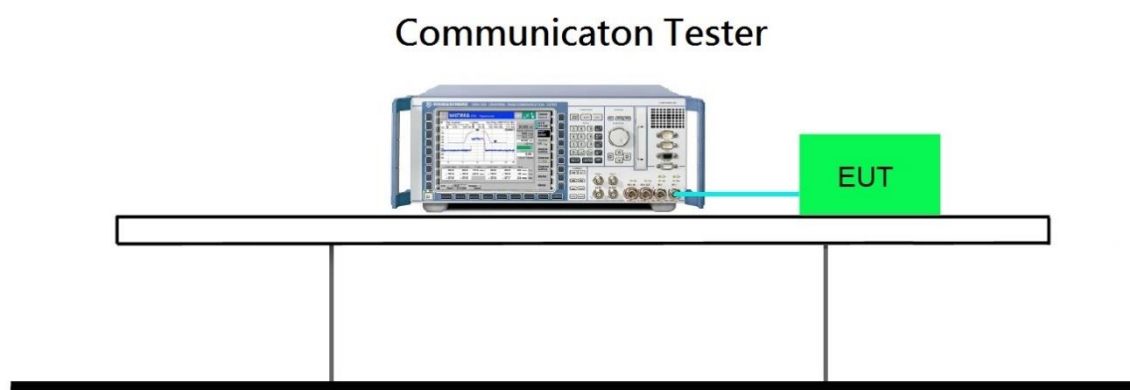
Δf_{OOB} (MHz)	發射限制值(dB)/頻道頻寬						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	解析頻寬
± 0 to 1	-8.5	-11.5	-13.5	-16.5	-18.5	-19.5	30kHz
± 1 to 2.5	-8.5	-8.5	-8.5	-8.5	-8.5	-8.5	1MHz
± 2.5 to 2.8	-23.5	-8.5	-8.5	-8.5	-8.5	-8.5	1MHz
± 2.8 to 5		-8.5	-8.5	-8.5	-8.5	-8.5	1MHz
± 5 to 6		-23.5	-11.5	-11.5	-11.5	-11.5	1MHz
± 6 to 10			-23.5	-11.5	-11.5	-11.5	1MHz
± 10 to 15				-23.5	-11.5	-11.5	1MHz
± 15 to 20					-23.5	-11.5	1MHz
± 20 to 25						-23.5	1MHz

備註： Δf_{OOB} 是發射頻帶外的頻率偏移量 (Δ Frequency of Out-of-band emission)

5.2.2 測試方法

- (1) 頻譜波罩限制值依頻道頻寬及 Δf_{OOB} 而不同，量測時的解析頻寬不小於上表的設定值。
- (2) 檢測頻道為低、中、高三個頻道，對最低、5MHz、10MHz及最高的工作頻寬之調變級數發射模式，均應分別檢測之。
- (3) 其餘相關規定請參照 3GPP TS 36.521-1。

5.2.3 實驗方法方塊圖



5.2.4 實驗數據

Band 1 (2100MHz)-5MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	18025	PRB #0	8	0	-13.23	-17.45			-22.22	-11.20	N/A	N/A	N/A
			PRB #Max	8	17	-10.32	-19.25			-24.07	-10.03	N/A	N/A	N/A
			Full RB	25	0	-17.23	-17.73			-21.80	-9.95	N/A	N/A	N/A
	MID	18300	PRB #0	8	0	-10.82	-19.19			-23.09	-10.26	N/A	N/A	N/A
			PRB #Max	8	17	-13.45	-18.68			-23.95	-10.39	N/A	N/A	N/A
			Full RB	25	0	-17.23	-19.41			-22.09	-9.55	N/A	N/A	N/A
	HIGH	18575	PRB #0	8	0	-11.14	-18.12			-23.03	-10.37	N/A	N/A	N/A
			PRB #Max	8	17	-9.44	-17.51			-23.57	-10.12	N/A	N/A	N/A
			Full RB	25	0	-16.89	-14.11			-20.99	-9.98	N/A	N/A	N/A
16-QAM	LOW	18025	PRB #0	8	0	-11.38	-18.42			-24.39	-11.23	N/A	N/A	N/A
			PRB #Max	8	17	-14.04	-19.92			-23.28	-11.86	N/A	N/A	N/A
			Full RB	25	0	-19.36	-18.92			-21.87	-10.36	N/A	N/A	N/A
	MID	18300	PRB #0	8	0	-14.51	-18.73			-24.02	-11.89	N/A	N/A	N/A
			PRB #Max	8	17	-10.72	-19.65			-24.00	-10.96	N/A	N/A	N/A
			Full RB	25	0	-16.21	-18.13			-22.35	-9.77	N/A	N/A	N/A
	HIGH	18575	PRB #0	8	0	-10.18	-18.68			-24.21	-11.63	N/A	N/A	N/A
			PRB #Max	8	17	-13.22	-19.23			-23.94	-11.59	N/A	N/A	N/A
			Full RB	25	0	-18.16	-14.66			-21.95	-11.12	N/A	N/A	N/A

Band 1 (2100MHz)-10MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	18050	PRB #0	12	0	-11.00	-16.41			-17.40		-11.42	N/A	N/A
			PRB #Max	12	38	-12.29	-13.40			-20.12		-11.20	N/A	N/A
			Full RB	50	0	-18.37	-17.40			-15.45		-8.52	N/A	N/A
	MID	18300	PRB #0	12	0	-12.67	-15.28			-15.88		-9.91	N/A	N/A
			PRB #Max	12	38	-13.31	-17.67			-18.49		-12.23	N/A	N/A
			Full RB	50	0	-20.46	-19.99			-19.02		-9.43	N/A	N/A
	HIGH	18550	PRB #0	12	0	-8.24	-12.50			-17.13		-12.07	N/A	N/A
			PRB #Max	12	38	-11.04	-13.70			-17.66		-11.74	N/A	N/A
			Full RB	50	0	-17.30	-13.26			-16.73		-9.19	N/A	N/A
16-QAM	LOW	18050	PRB #0	12	0	-15.91	-19.41			-17.93		-12.17	N/A	N/A
			PRB #Max	12	38	-13.01	-19.05			-21.08		-11.72	N/A	N/A
			Full RB	50	0	-21.65	-18.61			-18.59		-10.65	N/A	N/A
	MID	18300	PRB #0	12	0	-12.71	-19.40			-15.32		-8.74	N/A	N/A
			PRB #Max	12	38	-15.90	-20.48			-18.72		-11.49	N/A	N/A
			Full RB	50	0	-21.67	-19.29			-19.56		-11.90	N/A	N/A
	HIGH	18550	PRB #0	12	0	-12.99	-16.16			-18.82		-11.52	N/A	N/A
			PRB #Max	12	38	-12.82	-17.01			-18.68		-11.54	N/A	N/A
			Full RB	50	0	-20.51	-14.88			-18.03		-10.65	N/A	N/A

Band 1 (2100MHz)-20MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	18100	PRB #0	18	0	-16.42	-16.90		-17.55				-11.79	
			PRB #Max	18	82	-14.89	-16.72		-21.04				-11.25	
			Full RB	100	0	-21.54	-19.07		-14.96				-11.14	
	MID	18300	PRB #0	18	0	-15.01	-14.65		-16.76				-11.73	
			PRB #Max	18	82	-16.94	-18.57		-19.31				-11.98	
			Full RB	100	0	-23.10	-19.93		-17.77				-13.50	
	HIGH	18500	PRB #0	18	0	-16.06	-17.14		-18.96				-11.90	
			PRB #Max	18	82	-13.00	-15.21		-18.90				-10.50	
			Full RB	100	0	-19.97	-18.00		-14.22				-10.50	
16-QAM	LOW	18100	PRB #0	18	0	-16.38	-18.57		-18.70				-12.18	
			PRB #Max	18	82	-16.44	-18.19		-21.26				-11.91	
			Full RB	100	0	-22.98	-20.68		-17.42				-13.80	
	MID	18300	PRB #0	18	0	-17.75	-18.70		-19.11				-11.81	
			PRB #Max	18	82	-18.37	-3.00		-18.76				-11.26	
			Full RB	100	0	-22.91	-19.40		-19.73				-13.81	
	HIGH	18500	PRB #0	18	0	-16.15	-17.66		-19.36				-11.71	
			PRB #Max	18	82	-15.45	-16.78		-18.54				-11.78	
			Full RB	100	0	-21.78	-18.57		-15.02				-12.96	

Band 3 (1800MHz)-1.4MHz														
Modu- laton	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	19207	PRB #0	5	0	-19.00	-24.03	-16.25	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-17.94	-22.83	-13.96	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-22.57	-21.97	-14.47	N/A	N/A	N/A	N/A	N/A	N/A
	MID	19575	PRB #0	5	0	-12.58	-20.73	-14.83	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-13.04	-22.06	-15.00	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-19.90	-24.22	-12.72	N/A	N/A	N/A	N/A	N/A	N/A
	HIGH	19943	PRB #0	5	0	-15.67	-22.02	-14.37	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-14.22	-22.61	-12.69	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-19.93	-19.90	-13.01	N/A	N/A	N/A	N/A	N/A	N/A
16- QAM	LOW	19207	PRB #0	5	0	-19.59	-25.01	-14.78	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-20.68	-25.00	-15.77	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-22.92	-23.09	-14.57	N/A	N/A	N/A	N/A	N/A	N/A
	MID	19575	PRB #0	5	0	-16.88	-24.02	-14.46	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-16.75	-24.10	-14.52	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-19.23	-23.58	-15.61	N/A	N/A	N/A	N/A	N/A	N/A
	HIGH	19943	PRB #0	5	0	-15.86	-23.04	-14.72	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-16.48	-24.06	-15.28	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-21.62	-23.42	-14.96	N/A	N/A	N/A	N/A	N/A	N/A

Band 3 (1800MHz)-5MHz														
Modu- laton	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	19225	PRB #0	8	0	-14.19	-18.85		-23.58	-11.89	N/A	N/A	N/A	
			PRB #Max	8	17	-11.74	-19.25		-24.80	-11.25	N/A	N/A	N/A	
			Full RB	25	0	-18.57	-21.33		-24.17	-13.14	N/A	N/A	N/A	
	MID	19575	PRB #0	8	0	-8.82	-18.50		-24.97	-11.27	N/A	N/A	N/A	
			PRB #Max	8	17	-9.65	-19.02		-25.24	-11.13	N/A	N/A	N/A	
			Full RB	25	0	-15.16	-14.78		-20.67	-11.92	N/A	N/A	N/A	
	HIGH	19925	PRB #0	8	0	-11.10	-16.03		-23.91	-10.49	N/A	N/A	N/A	
			PRB #Max	8	17	-10.73	-16.71		-24.03	-12.00	N/A	N/A	N/A	
			Full RB	25	0	-18.29	-13.18		-20.22	-11.69	N/A	N/A	N/A	
16- QAM	LOW	19225	PRB #0	8	0	-12.38	-20.03		-24.46	-11.74	N/A	N/A	N/A	
			PRB #Max	8	17	-14.44	-21.79		-24.22	-12.21	N/A	N/A	N/A	
			Full RB	25	0	-20.29	-22.12		-22.86	-13.46	N/A	N/A	N/A	
	MID	19575	PRB #0	8	0	-11.66	-17.73		-24.93	-11.84	N/A	N/A	N/A	
			PRB #Max	8	17	-7.49	-17.62		-24.55	-11.64	N/A	N/A	N/A	
			Full RB	25	0	-16.21	-14.62		-22.10	-12.69	N/A	N/A	N/A	
	HIGH	19925	PRB #0	8	0	-10.81	-18.02		-24.77	-10.07	N/A	N/A	N/A	
			PRB #Max	8	17	-13.52	-19.29		-25.10	-12.06	N/A	N/A	N/A	
			Full RB	25	0	-20.90	-15.53		-21.10	-10.90	N/A	N/A	N/A	

Band 3 (1800MHz)-10MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	19250	PRB #0	12	0	-13.94	-15.57			-17.07		-13.00	N/A	N/A
			PRB #Max	12	38	-12.74	-17.71			-20.21		-13.28	N/A	N/A
			Full RB	50	0	-20.99	-20.43			-18.73		-9.50	N/A	N/A
	MID	19575	PRB #0	12	0	-8.19	-11.49			-17.37		-11.43	N/A	N/A
			PRB #Max	12	38	-7.10	-10.56			-19.72		-13.47	N/A	N/A
			Full RB	50	0	-16.02	-14.10			-13.43		-10.05	N/A	N/A
	HIGH	19900	PRB #0	12	0	-7.76	-10.39			-20.47		-13.19	N/A	N/A
			PRB #Max	12	38	-11.14	-11.34			-17.18		-12.53	N/A	N/A
			Full RB	50	0	-18.32	-13.00			-14.26		-8.96	N/A	N/A
16-QAM	LOW	19250	PRB #0	12	0	-12.95	-17.34			-16.28		-13.37	N/A	N/A
			PRB #Max	12	38	-14.36	-17.59			-19.12		-13.08	N/A	N/A
			Full RB	50	0	-21.52	-21.59			-19.26		-11.05	N/A	N/A
	MID	19575	PRB #0	12	0	-11.81	-15.56			-18.70		-12.92	N/A	N/A
			PRB #Max	12	38	-11.30	-16.78			-20.97		-12.89	N/A	N/A
			Full RB	50	0	-19.99	-16.06			-15.17		-12.14	N/A	N/A
	HIGH	19900	PRB #0	12	0	-9.58	-15.11			-20.35		-12.67	N/A	N/A
			PRB #Max	12	38	-12.30	-16.85			-16.68		-12.85	N/A	N/A
			Full RB	50	0	-20.97	-17.00			-15.09		-11.17	N/A	N/A

Band 3 (1800MHz)-20MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	19300	PRB #0	18	0	-18.19	-17.99		-15.82			-13.22		
			PRB #Max	18	82	-16.92	-18.75		-22.10			-12.95		
			Full RB	100	0	-21.75	-21.09		-17.55			-11.35		
	MID	19575	PRB #0	18	0	-11.78	-14.84		-17.62			-12.87		
			PRB #Max	18	82	-11.65	-14.54		-20.23			-12.95		
			Full RB	100	0	-19.72	-17.23		-13.61			-11.96		
	HIGH	19850	PRB #0	18	0	-15.81	-15.42		-21.07			-11.82		
			PRB #Max	18	82	-12.75	-15.08		-18.91			-12.39		
			Full RB	100	0	-20.94	-18.93		-15.07			-11.57		
16-QAM	LOW	19300	PRB #0	18	0	-18.95	-19.80		-15.88			-13.39		
			PRB #Max	18	82	-17.42	-18.84		-22.22			-13.25		
			Full RB	100	0	-24.22	-22.31		-19.97			-14.28		
	MID	19575	PRB #0	18	0	-13.92	-15.94		-19.71			-13.31		
			PRB #Max	18	82	-15.41	-15.76		-21.89			-12.60		
			Full RB	100	0	-23.21	-19.60		-19.21			-13.51		
	HIGH	19850	PRB #0	18	0	-17.51	-19.22		-21.57			-12.20		
			PRB #Max	18	82	-15.09	-16.14		-18.81			-12.93		
			Full RB	100	0	-23.64	-20.61		-19.64			-14.23		

Band 7 (2600MHz)-5MHz														
Modu- laton	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	20775	PRB #0	8	0	-11.53	-17.50		-24.73	-12.72	N/A	N/A	N/A	
			PRB #Max	8	17	-8.42	-17.99		-24.87	-12.88	N/A	N/A	N/A	
			Full RB	25	0	-16.37	-14.72		-21.01	-12.08	N/A	N/A	N/A	
	MID	21100	PRB #0	8	0	-10.10	-18.59		-24.77	-12.59	N/A	N/A	N/A	
			PRB #Max	8	17	-11.84	-18.05		-24.66	-12.06	N/A	N/A	N/A	
			Full RB	25	0	-15.87	-19.03		-23.67	-13.79	N/A	N/A	N/A	
	HIGH	21425	PRB #0	8	0	-10.07	-17.57		-21.73	-8.46	N/A	N/A	N/A	
			PRB #Max	8	17	-6.90	-16.75		-19.82	-10.11	N/A	N/A	N/A	
			Full RB	25	0	-14.91	-12.52		-21.44	-11.42	N/A	N/A	N/A	
16- QAM	LOW	20775	PRB #0	8	0	-10.52	-18.43		-25.14	-13.13	N/A	N/A	N/A	
			PRB #Max	8	17	-13.19	-19.36		-25.14	-13.25	N/A	N/A	N/A	
			Full RB	25	0	-17.41	-16.18		-20.91	-12.70	N/A	N/A	N/A	
	MID	21100	PRB #0	8	0	-13.84	-18.12		-24.94	-13.33	N/A	N/A	N/A	
			PRB #Max	8	17	-9.86	-17.77		-25.18	-13.06	N/A	N/A	N/A	
			Full RB	25	0	-16.74	-18.35		-23.63	-13.85	N/A	N/A	N/A	
	HIGH	21425	PRB #0	8	0	-9.09	-17.55		-24.64	-13.10	N/A	N/A	N/A	
			PRB #Max	8	17	-11.70	-17.03		-25.13	-12.71	N/A	N/A	N/A	
			Full RB	25	0	-16.46	-14.45		-23.09	-13.08	N/A	N/A	N/A	

Band 7 (2600MHz)-10MHz														
Modu- laton	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	20800	PRB #0	12	0	-9.38	-13.10		-15.90		-13.64	N/A	N/A	
			PRB #Max	12	38	-11.07	-13.51		-17.80		-13.39	N/A	N/A	
			Full RB	50	0	-16.34	-13.81		-12.67		-8.40	N/A	N/A	
	MID	21100	PRB #0	12	0	-12.00	-15.87		-14.53		-13.10	N/A	N/A	
			PRB #Max	12	38	-11.59	-16.26		-14.80		-13.61	N/A	N/A	
			Full RB	50	0	-19.38	-19.16		-19.58		-12.62	N/A	N/A	
	HIGH	21400	PRB #0	12	0	-9.21	-12.09		-14.57		-12.05	N/A	N/A	
			PRB #Max	12	38	-8.63	-12.50		-14.49		-13.23	N/A	N/A	
			Full RB	50	0	-16.81	-13.07		-15.38		-12.30	N/A	N/A	
16- QAM	LOW	20800	PRB #0	12	0	-13.15	-15.25		-16.98		-12.81	N/A	N/A	
			PRB #Max	12	38	-12.12	-16.05		-17.85		-13.04	N/A	N/A	
			Full RB	50	0	-18.96	-16.06		-16.66		-10.36	N/A	N/A	
	MID	21100	PRB #0	12	0	-12.89	-19.34		-15.51		-13.46	N/A	N/A	
			PRB #Max	12	38	-13.71	-19.86		-15.10		-13.40	N/A	N/A	
			Full RB	50	0	-20.44	-19.28		-18.16		-12.27	N/A	N/A	
	HIGH	21400	PRB #0	12	0	-12.91	-16.06		-15.63		-12.72	N/A	N/A	
			PRB #Max	12	38	-10.84	-16.27		-16.31		-12.71	N/A	N/A	
			Full RB	50	0	-17.60	-15.26		-18.12		-13.13	N/A	N/A	

Band 7 (2600MHz)-20MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	20850	PRB #0	18	0	-13.90	-14.87		-16.01			-13.21		
			PRB #Max	18	82	-12.69	-14.63		-20.24			-14.04		
			Full RB	100	0	-19.31	-17.30		-16.25			-13.11		
	MID	21100	PRB #0	18	0	-14.05	-15.72		-15.34			-13.38		
			PRB #Max	18	82	-14.08	-17.15		-15.80			-13.26		
			Full RB	100	0	-21.92	-18.36		-17.77			-12.47		
	HIGH	21350	PRB #0	18	0	-12.87	-14.70		-16.98			-13.29		
			PRB #Max	18	82	-10.80	-14.34		-16.96			-12.56		
			Full RB	100	0	-18.92	-16.06		-13.54			-12.08		
16-QAM	LOW	20850	PRB #0	18	0	-15.44	-16.07		-16.16			-13.62		
			PRB #Max	18	82	-15.77	-16.22		-20.22			-13.68		
			Full RB	100	0	-22.17	-18.78		-17.36			-14.43		
	MID	21100	PRB #0	18	0	-17.45	-16.95		-17.68			-13.33		
			PRB #Max	18	82	-15.90	-17.79		-18.42			-13.03		
			Full RB	100	0	-22.76	-20.48		-18.84			-14.80		
	HIGH	21350	PRB #0	18	0	-13.89	-14.95		-17.72			-13.03		
			PRB #Max	18	82	-14.39	-15.98		-17.16			-13.74		
			Full RB	100	0	-20.39	-16.97		-15.13			-14.37		

Band 8 (900MHz)-1.4MHz														
Modu- laton	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	21507	PRB #0	5	0	-22.36	-23.13	-11.78	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-24.90	-23.81	-11.96	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-23.73	-25.76	-12.64	N/A	N/A	N/A	N/A	N/A	N/A
	MID	21650	PRB #0	5	0	-20.89	-24.60	-11.55	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-28.30	-25.01	-11.87	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-27.01	-25.21	-12.76	N/A	N/A	N/A	N/A	N/A	N/A
	HIGH	21793	PRB #0	5	0	-16.75	-21.96	-10.28	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-17.73	-21.66	-10.39	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-20.58	-24.71	-11.42	N/A	N/A	N/A	N/A	N/A	N/A
16- QAM	LOW	21507	PRB #0	5	0	-23.15	-25.27	-12.67	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-26.32	-23.65	-12.26	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-25.59	-26.39	-12.83	N/A	N/A	N/A	N/A	N/A	N/A
	MID	21650	PRB #0	5	0	-25.74	-26.40	-12.27	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-24.90	-26.07	-11.97	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-23.28	-26.01	-12.88	N/A	N/A	N/A	N/A	N/A	N/A
	HIGH	21793	PRB #0	5	0	-18.60	-23.13	-10.70	N/A	N/A	N/A	N/A	N/A	N/A
			PRB #Max	5	1	-20.32	-25.01	-11.41	N/A	N/A	N/A	N/A	N/A	N/A
			Full RB	6	0	-22.31	-25.87	-12.70	N/A	N/A	N/A	N/A	N/A	N/A

Band 8 (900MHz)-5MHz														
Modu- laton	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	21525	PRB #0	8	0	-14.39	-19.67		-21.02	-7.79	N/A	N/A	N/A	
			PRB #Max	8	17	-11.19	-18.20		-20.60	-8.57	N/A	N/A	N/A	
			Full RB	25	0	-18.87	-20.64		-24.42	-12.66	N/A	N/A	N/A	
	MID	21650	PRB #0	8	0	-12.16	-21.53		-20.53	-8.02	N/A	N/A	N/A	
			PRB #Max	8	17	-13.43	-21.31		-20.51	-8.70	N/A	N/A	N/A	
			Full RB	25	0	-17.61	-19.82		-24.07	-12.75	N/A	N/A	N/A	
	HIGH	21775	PRB #0	8	0	-12.64	-15.83		-20.57	-8.16	N/A	N/A	N/A	
			PRB #Max	8	17	-10.82	-19.11		-20.36	-7.59	N/A	N/A	N/A	
			Full RB	25	0	-18.96	-18.66		-23.18	-12.78	N/A	N/A	N/A	
16- QAM	LOW	21525	PRB #0	8	0	-12.49	-20.96		-21.02	-8.59	N/A	N/A	N/A	
			PRB #Max	8	17	-15.14	-21.62		-20.87	-7.86	N/A	N/A	N/A	
			Full RB	25	0	-20.30	-21.05		-23.12	-12.98	N/A	N/A	N/A	
	MID	21650	PRB #0	8	0	-16.63	-20.32		-20.99	-8.18	N/A	N/A	N/A	
			PRB #Max	8	17	-11.28	-19.77		-20.86	-8.04	N/A	N/A	N/A	
			Full RB	25	0	-16.89	-18.74		-23.97	-12.74	N/A	N/A	N/A	
	HIGH	21775	PRB #0	8	0	-11.56	-19.12		-20.59	-8.76	N/A	N/A	N/A	
			PRB #Max	8	17	-14.68	-20.33		-20.56	-8.90	N/A	N/A	N/A	
			Full RB	25	0	-20.19	-18.97		-22.40	-12.81	N/A	N/A	N/A	

Band 8 (900MHz)-10MHz														
Modulation	Test CH	CH	RB allocation	RB No.	RB Offset	MHz / Margin(dB)								
						±0 to 1	±1 to 2.5	±2.5 to 2.8	±2.8 to 5	±5 to 6	±6 to 10	±10 to 15	±15 to 20	±20 to 25
QPSK	LOW	21550	PRB #0	12	0	-11.88	-17.01		-18.16		-8.07		N/A	N/A
			PRB #Max	12	38	-14.70	-15.52		-18.74		-8.53		N/A	N/A
			Full RB	50	0	-21.00	-20.41		-17.33		-9.77		N/A	N/A
	MID	21650	PRB #0	12	0	-11.30	-18.54		-17.42		-8.07		N/A	N/A
			PRB #Max	12	38	-15.63	-17.34		-16.55		-8.54		N/A	N/A
			Full RB	50	0	-21.11	-18.33		-17.90		-12.53		N/A	N/A
	HIGH	21750	PRB #0	12	0	-9.66	-13.85		-19.73		-6.77		N/A	N/A
			PRB #Max	12	38	-14.50	-16.98		-15.82		-7.93		N/A	N/A
			Full RB	50	0	-20.49	-16.15		-14.02		-7.19		N/A	N/A
16-QAM	LOW	21550	PRB #0	12	0	-14.02	-18.30		-17.72		-8.48		N/A	N/A
			PRB #Max	12	38	-18.48	-20.05		-18.95		-8.40		N/A	N/A
			Full RB	50	0	-23.16	-21.29		-19.91		-12.70		N/A	N/A
	MID	21650	PRB #0	12	0	-18.65	-17.76		-17.89		-7.88		N/A	N/A
			PRB #Max	12	38	-14.63	-17.74		-18.62		-8.11		N/A	N/A
			Full RB	50	0	-22.00	-18.53		-18.36		-12.40		N/A	N/A
	HIGH	21750	PRB #0	12	0	-12.74	-14.52		-20.47		-7.86		N/A	N/A
			PRB #Max	12	38	-15.91	-18.64		-18.15		-7.42		N/A	N/A
			Full RB	50	0	-21.06	-17.52		-18.21		-11.34		N/A	N/A

5.3 傳導帶外輻射發射限制

5.3.1 合格標準

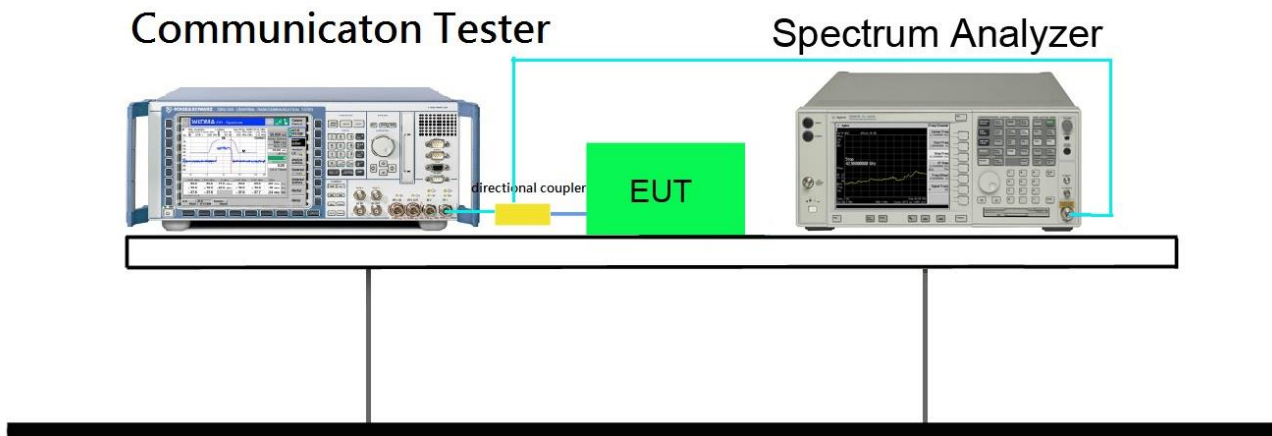
工作頻帶外輻射發射應符合下表之帶外輻射規範值。

頻率範圍	最大位準	解析頻寬
$9\text{kHz} \leq f < 150\text{kHz}$	-36 dBm	1kHz
$150\text{kHz} \leq f < 30\text{MHz}$	-36 dBm	10kHz
$30\text{MHz} \leq f < 1\text{GHz}$	-36 dBm	100kHz
$1\text{GHz} \leq f < 12.75\text{Hz}$	-30 dBm	1MHz

5.3.2 測試方法

- (1) 帶外輻射量測頻率範圍，不包含6.3.2.1節中 Δf_{OOB} 。量測時的解析頻寬不小於上表的設定值。
- (2) 檢測頻道為低、中、高三個頻道，對最低、5MHz及最高的工作頻寬之QPSK調變級數發射模式，均應分別檢測之。
- (3) 其餘相關規定請參照 3GPP TS 36.521-1。

5.3.3 實驗方法方塊圖



5.3.4 實驗數據

備註：測試結果請參閱附錄 C。

5.4 相鄰頻道洩漏功率比(ACLR)

5.4.1 合格標準

LTE 終端設備 ACLR 規範值

	頻道頻寬					
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
相鄰頻道偏移	±1.4MHz	±3MHz	±5MHz	±10MHz	±15MHz	±20MHz
頻道量測頻寬	1.08 MHz	2.7 MHz	4.5 MHz	9.0 MHz	13.5 MHz	18 MHz
相鄰頻道洩漏功率限制值	29.2dB					

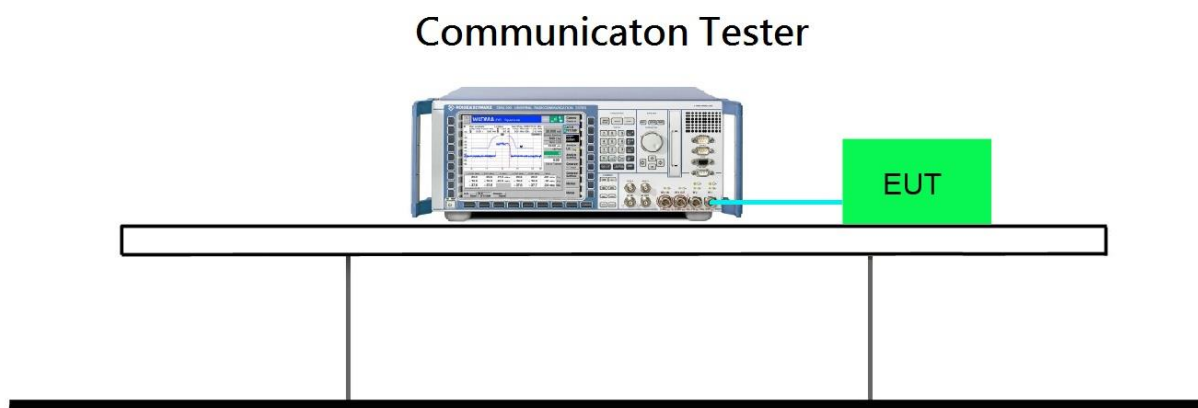
LTE 終端設備 ACLR 規範值 (HPUE 適用)

	頻道頻寬					
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
相鄰頻道偏移	N/A	N/A	±5MHz	±10MHz	±15MHz	±20MHz
頻道量測頻寬	N/A	N/A	4.5 MHz	9.0 MHz	13.5 MHz	18 MHz
相鄰頻道洩漏功率限制值	N/A	N/A	30.2 dB			

5.4.2 測試方法

- (1) 測量檢測頻道與其相鄰通道的平均功率，計算相鄰頻道洩漏功率比。測量時，頻道的量測頻寬依表三之規定。
- (2) 檢測頻道為低、中、高三個頻道，對最低、5MHz、10MHz及最高的工作頻寬之調變級數發射模式，均應分別檢測之。
- (3) 其餘相關規定請參照 3GPP TS 36.521-1。

5.4.3 實驗方法方塊圖



5.4.4 實驗數據

Band 1 (2100MHz)						
Modulation	QPSK			16QAM		
RB allocation	Partial RB(#0)	Partial RB(#Max)	Full RB	Partial RB(#0)	Partial RB(#Max)	Full RB
頻道頻寬: 5MHz, 相鄰頻道偏移: $\pm 5\text{MHz}$						
CH 18025	-43.62	-42.81	-43.37	-43.59	-43.14	-42.69
CH 18300	-43.24	-44.65	-43.88	-42.67	-41.79	-43.06
CH 18575	-40.12	-40.51	-37.30	-41.22	-41.66	-39.72
頻道頻寬: 10MHz, 相鄰頻道偏移: $\pm 10\text{MHz}$						
CH 18050	-44.47	-43.94	-43.54	-42.89	-43.12	-42.93
CH 18300	-44.96	-45.41	-43.55	-45.34	-45.60	-42.82
CH 18550	-41.41	-42.85	-39.89	-41.16	-43.05	-40.53
頻道頻寬: 20MHz, 相鄰頻道偏移: $\pm 20\text{MHz}$						
CH 18100	-43.90	-43.69	-42.18	-43.79	-43.39	-42.07
CH 18300	-43.56	-44.39	-42.73	-43.38	-43.64	-41.78
CH 18500	-43.99	-43.06	-40.46	-43.28	-43.13	-40.13

Band 3 (1800MHz)						
Modulation	QPSK			16QAM		
RB allocation	Partial RB(#0)	Partial RB(#Max)	Full RB	Partial RB(#0)	Partial RB(#Max)	Full RB
頻道頻寬: 1.4MHz, 相鄰頻道偏移: ± 1.4 MHz						
CH 19207	-43.52	-43.44	-46.43	-45.82	-45.58	-48.00
CH 19575	-37.43	-37.61	-41.85	-40.71	-40.83	-43.67
CH 19943	-39.64	-39.64	-42.11	-42.21	-42.12	-44.90
頻道頻寬: 5MHz, 相鄰頻道偏移: ± 5 MHz						
CH 19225	-44.57	-44.38	-45.60	-44.93	-45.67	-45.75
CH 19575	-38.46	-38.45	-39.00	-39.12	-38.48	-41.08
CH 19925	-39.00	-40.14	-39.70	-41.16	-42.21	-41.36
頻道頻寬: 10MHz, 相鄰頻道偏移: ± 10 MHz						
CH 19250	-44.54	-45.94	-46.39	-43.99	-44.57	-45.29
CH 19575	-40.64	-40.62	-39.18	-40.94	-41.21	-41.63
CH 19900	-38.72	-40.87	-40.01	-39.60	-40.39	-39.81
頻道頻寬: 20MHz, 相鄰頻道偏移: ± 20 MHz						
CH 19300	-43.52	-44.96	-43.31	-43.53	-44.71	-42.97
CH 19575	-42.62	-43.08	-39.72	-43.49	-44.03	-41.48
CH 19850	-44.29	-43.30	-40.45	-44.55	-44.07	-42.65

Band 7 (2600MHz)						
Modulation	QPSK			16QAM		
RB allocation	Partial RB(#0)	Partial RB(#Max)	Full RB	Partial RB(#0)	Partial RB(#Max)	Full RB
頻道頻寬: 5MHz, 相鄰頻道偏移: $\pm 5\text{MHz}$						
CH 20775	-42.02	-41.06	-41.08	-43.24	-42.46	-41.24
CH 21100	-43.67	-44.09	-44.42	-43.48	-42.93	-43.61
CH 21425	-41.72	-40.13	-39.69	-42.67	-41.67	-40.51
頻道頻寬: 10MHz, 相鄰頻道偏移: $\pm 10\text{MHz}$						
CH 20800	-43.46	-43.17	-40.77	-43.69	-43.89	-41.30
CH 21100	-45.18	-45.11	-44.02	-45.50	-45.50	-43.33
CH 21400	-43.33	-42.51	-41.23	-43.01	-43.41	-41.36
頻道頻寬: 20MHz, 相鄰頻道偏移: $\pm 20\text{MHz}$						
CH 20850	-44.23	-43.83	-41.21	-44.18	-44.72	-42.08
CH 21100	-44.23	-44.82	-42.78	-44.30	-44.76	-42.18
CH 21350	-44.80	-43.61	-39.74	-44.40	-44.64	-40.10

Band 8 (900MHz)						
Modulation	QPSK			16QAM		
RB allocation	Partial RB(#0)	Partial RB(#Max)	Full RB	Partial RB(#0)	Partial RB(#Max)	Full RB
頻道頻寬: 1.4MHz, 相鄰頻道偏移: ± 1.4 MHz						
CH 21507	-45.79	-45.66	-49.38	-47.09	-47.54	-49.39
CH 21650	-49.24	-49.36	-47.99	-47.69	-47.98	-46.77
CH 21793	-38.57	-39.16	-42.86	-41.63	-43.06	-43.99
頻道頻寬: 5MHz, 相鄰頻道偏移: ± 5 MHz						
CH 21525	-43.98	-42.92	-45.25	-43.93	-43.94	-44.66
CH 21650	-45.25	-44.59	-44.88	-44.09	-42.92	-43.96
CH 21775	-41.56	-42.04	-42.85	-42.02	-42.67	-42.45
頻道頻寬: 10MHz, 相鄰頻道偏移: ± 10 MHz						
CH 21550	-43.28	-43.29	-43.40	-43.55	-43.62	-44.11
CH 21650	-43.57	-42.42	-42.39	-43.64	-42.56	-41.77
CH 21750	-40.45	-43.17	-39.35	-41.59	-43.28	-40.59

5.5 頻率穩定度

5.5.1 合格標準

a) 依測試環境條件，終端設備於常態環境常態電壓、低極端溫度低極端電壓、低極端溫度高極端電壓、高極端溫度低極端電壓、高極端溫度高極端電壓等五種測試環境下，分別進行頻率量測，經0/2/5/10 分鐘量測結果，頻率應維持在頻道之主波頻率0.1ppm 以內。

常態環境溫度範圍為+15°C至+35°C，濕度範圍為25%至75%。

極端環境溫度範圍為-10°C至+55°C，其他規定應符合IEC 60068-2-1 與IEC 60068-2-2。

在極端環境溫度，終端設備若可通電開機，則不得無效使用第3 點規定之頻段。

電壓條件：

終端設備之電源電壓應於低極端電壓與高極端電壓之間。終端設備審驗申請者應宣告其標稱電壓(nominal)、低極端電壓、高極端電壓與關機電壓。若終端設備可操作在一種或多種電源，其低極端電壓不得高於下表限制值，高極端電壓不得低於下表限制值。

電源	低極端電壓	高極端電壓	常態電壓
交流電源	0.9 * Nominal	1.1 * Nominal	Nominal
調節式鉛酸電池	0.9 * Nominal	1.3 * Nominal	1.1 * Nominal
非調節式電池:			
勒克朗社電池	0.85 * Nominal	Nominal	Nominal
鋰電池	0.95 * Nominal	1.1 * Nominal	1.1 * Nominal
水銀電池/鎳鎘電池	0.9 * Nominal	1.1 * Nominal	Nominal

電源電壓低於上表之低極端電壓或高於上表之高極端電壓，終端設備若可通電開機時，不得無效使用第3 點規定之頻段。

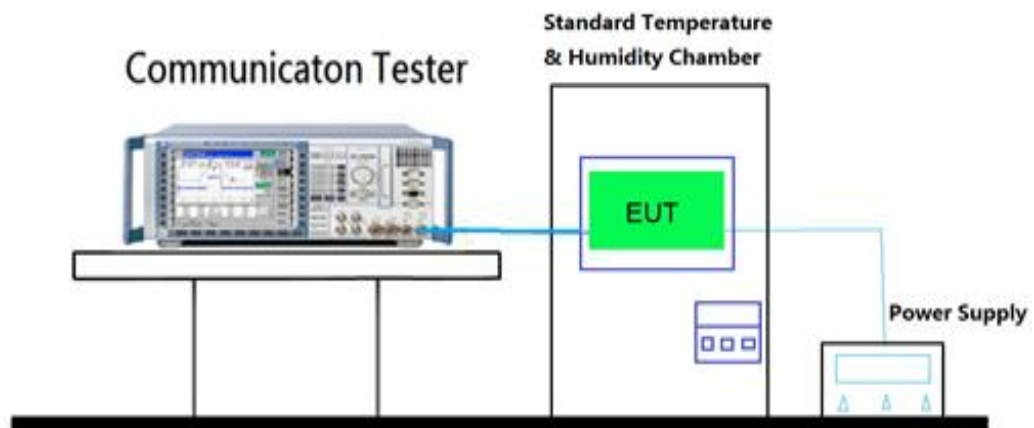
b) 檢測終端設備之電源電壓低於關機電壓時，終端設備不得發射。

5.5.2 測試方法

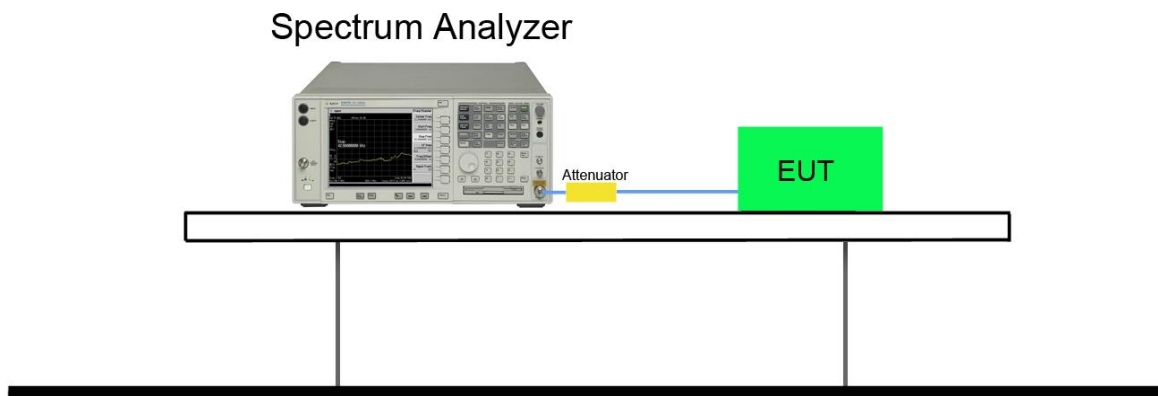
- 發射機誤差的測量經由模擬基地台控制頻率至欲測量頻率並量測其頻率穩定度。
- 頻譜分析儀設定適當頻率範圍並接上終端設備量測。

5.5.3 實驗方法方塊圖

a)



b)



5.5.4 實驗數據

a)

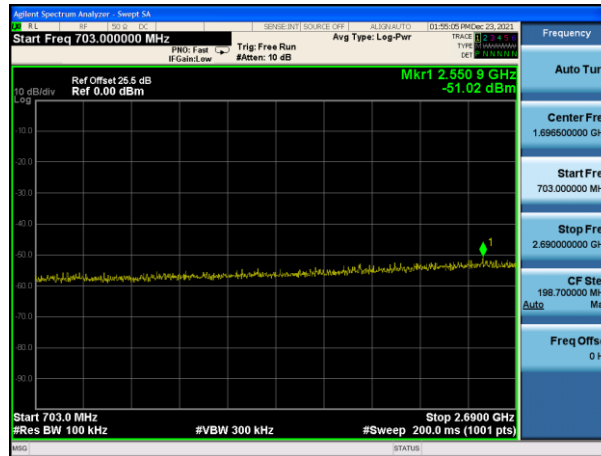
Band 1 (2100MHz)											
測試電壓		溫度	測試結果(Hz)				測試結果(ppm)				合格標準
			0min	2min	5min	10min	0min	2min	5min	10min	
常溫常壓	DC 3.7V	25℃	58.77	-15.35	20.60	-12.16	0.030	0.008	0.011	0.006	0.1ppm (195.0Hz)
低溫低壓	DC 3.5V	-10℃	-21.20	-19.13	-20.36	-21.17	0.011	0.010	0.010	0.011	
低溫高壓	DC 4.2V		-51.73	-22.83	-23.53	-20.93	0.027	0.012	0.012	0.011	
高溫低壓	DC 3.5V	55℃	-5.48	-24.25	-19.57	47.45	0.003	0.012	0.010	0.024	
高溫高壓	DC 4.2V		-25.23	-24.08	12.49	-15.81	0.013	0.012	0.006	0.008	

Band 3 (1800MHz)											
測試電壓		溫度	測試結果(Hz)				測試結果(ppm)				合格標準
			0min	2min	5min	10min	0min	2min	5min	10min	
常溫常壓	DC 3.7V	25℃	-14.26	-17.74	-11.87	-13.73	0.008	0.010	0.007	0.008	0.1ppm (174.75Hz)
低溫低壓	DC 3.5V	-10℃	-23.85	-18.78	-26.25	-25.18	0.014	0.011	0.015	0.014	
低溫高壓	DC 4.2V		-21.01	-21.09	-26.26	-21.77	0.012	0.012	0.015	0.012	
高溫低壓	DC 3.5V	55℃	-22.89	-24.29	-19.71	-19.53	0.013	0.014	0.011	0.011	
高溫高壓	DC 4.2V		-19.88	-34.23	37.72	-22.63	0.011	0.020	0.022	0.013	

Band 7 (2600MHz)											
測試電壓		溫度	測試結果(Hz)				測試結果(ppm)				合格標準
			0min	2min	5min	10min	0min	2min	5min	10min	
常溫常壓	DC 3.7V	25℃	35.93	-17.40	-13.40	-17.29	0.014	0.007	0.005	0.007	0.1ppm (253.5Hz)
低溫低壓	DC 3.5V	-10℃	-33.53	-28.20	-29.30	27.41	0.013	0.011	0.012	0.011	
低溫高壓	DC 4.2V		21.80	-22.40	-30.96	-25.22	0.009	0.009	0.012	0.010	
高溫低壓	DC 3.5V	55℃	-9.73	-41.26	-27.61	-25.48	0.004	0.016	0.011	0.010	
高溫高壓	DC 4.2V		-32.03	-40.44	14.92	-39.71	0.013	0.016	0.006	0.016	

Band 8 (900MHz)											
測試電壓		溫度	測試結果(Hz)				測試結果(ppm)				合格標準
			0min	2min	5min	10min	0min	2min	5min	10min	
常溫常壓	DC 3.7V	25℃	-9.16	-9.46	-13.29	-13.58	0.010	0.011	0.015	0.015	0.1ppm (90.0Hz)
低溫低壓	DC 3.5V	-10℃	-13.02	-17.17	-12.80	-14.09	0.014	0.019	0.014	0.016	
低溫高壓	DC 4.2V		-16.92	-18.12	-14.03	-17.24	0.019	0.020	0.016	0.019	
高溫低壓	DC 3.5V	55℃	-15.16	-14.26	-13.83	18.67	0.017	0.016	0.015	0.021	
高溫高壓	DC 4.2V		-17.51	-18.91	-17.68	-20.44	0.019	0.021	0.020	0.023	

b) 電源電壓低於關機電壓(DC 3.2V)時，終端設備無發射之結果



5.6 電波功率密度

5.6.1 合格標準

電波功率密度最大值(本項測試適用於移動式或固定式無線接取終端設備)：

700MHz 頻段為 0.35mW/cm²；

900MHz 頻段為 0.45mW/cm²；

1800MHz 頻段為 0.9mW/cm²。

2100 MHz、2500 MHz 與 2600 MHz 頻段為 1.0 mW/cm²。

5.6.2 計算方式

$$Pd = (Pout \times G) / (4 \times \pi \times r^2)$$

Pd = 功率密度 (mW/cm²)

Pout = 輸出功率 (mW)

G = 天線增益 (linear)

π = 3.1416

r = 量測距離20公分，或以設備廠商宣告設備天線與附近人體可活動範圍之距離。

5.6.3 計算結果

Frequency (MHz)	EIRP (dBm)	Level (mW/cm ²)	Limit (mW/cm ²)
900 (Band8)	21.52	0.0282	0.45
1800 (Band3)	23.44	0.0439	0.90
2100 (Band1)	24.49	0.0559	1.00
2500 (Band7)	24.48	0.0558	1.00

附錄 A: 功率限制

Band 1:



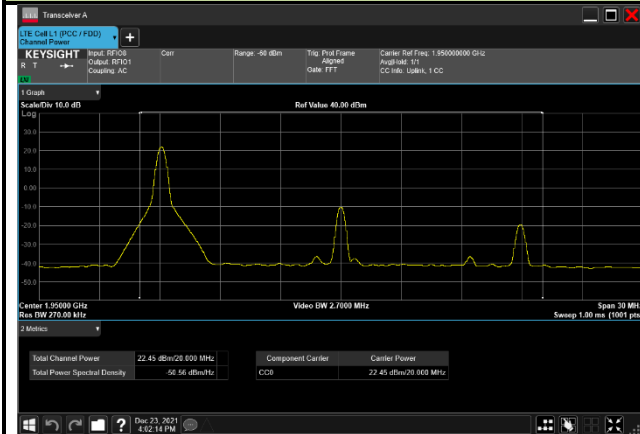
Band1 20MHz CH18100 1RB#0



Band1 20MHz CH18100 18RB#0



Band1 20MHz CH18300 1RB#0



Band1 20MHz CH18300 18RB#0



Band1 20MHz CH18500 1RB#99

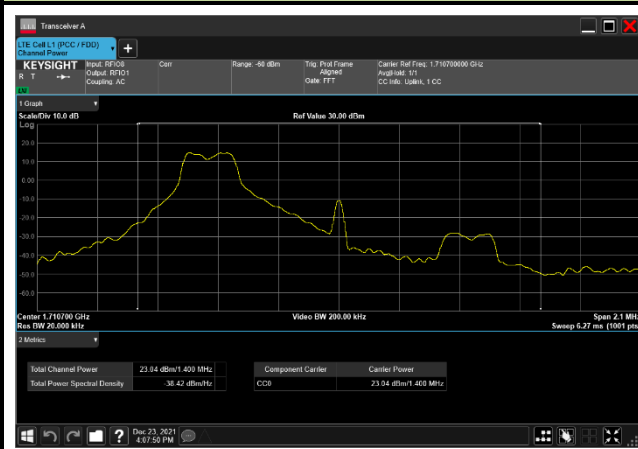


Band1 20MHz CH18500 18RB#82

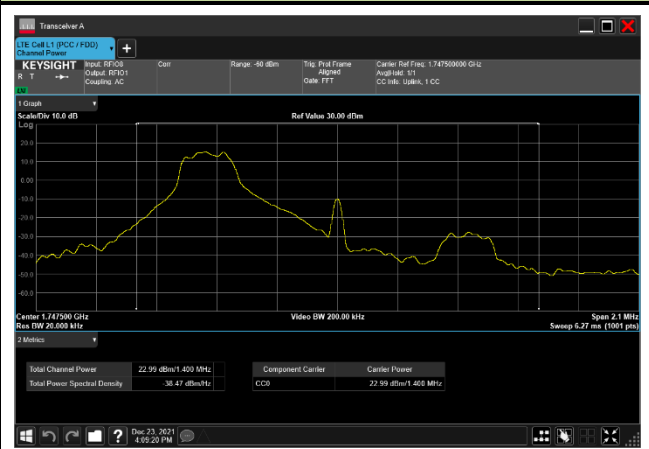


Band 3:

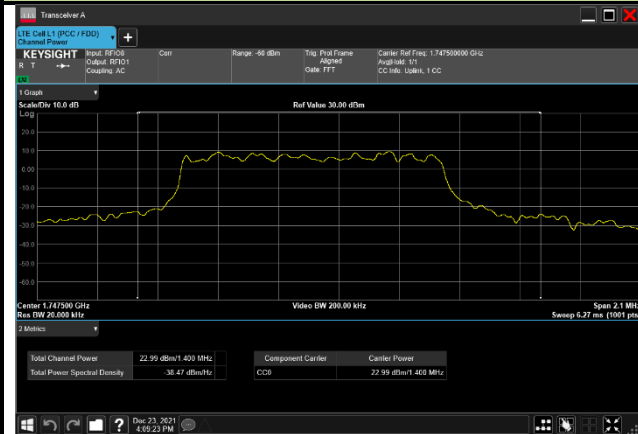
Band3 1.4MHz CH19207 1RB#0



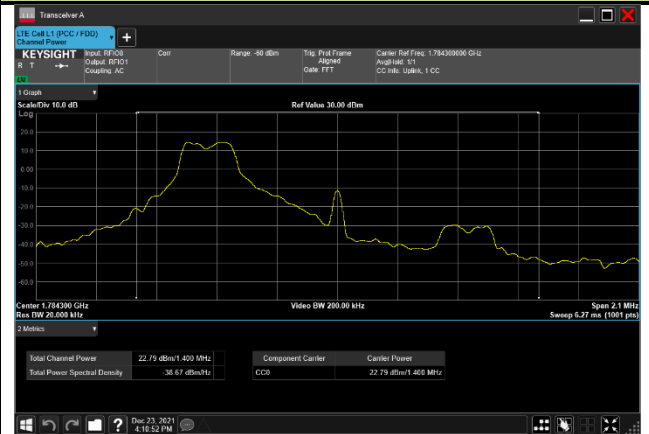
Band3 1.4MHz CH19575 1RB#0



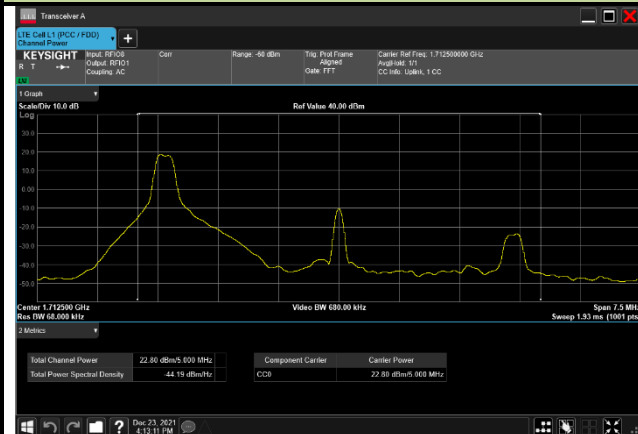
Band3 1.4MHz CH19575 5RB#0



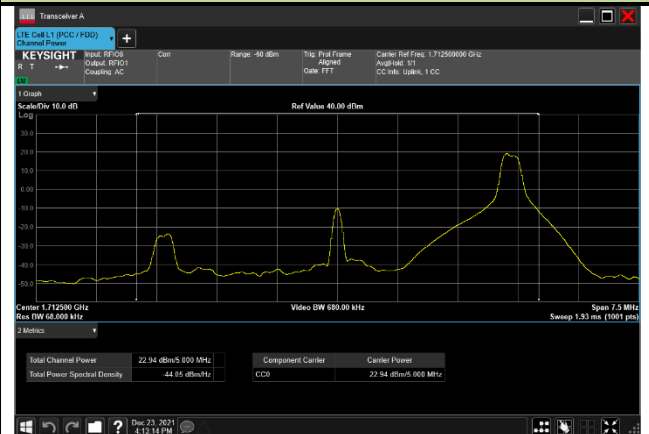
Band3 1.4MHz CH19943 1RB#0



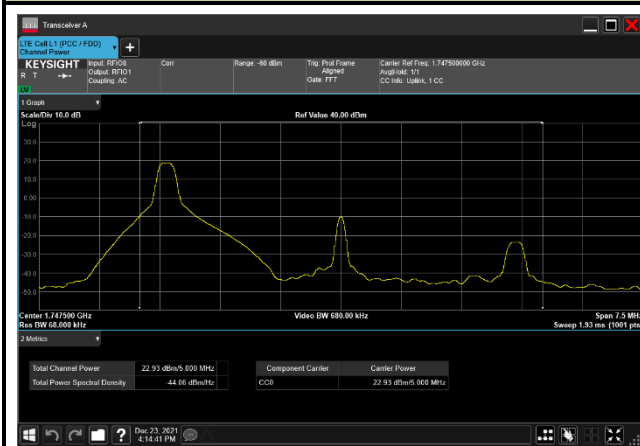
Band3 5MHz CH19225 1RB#0



Band3 5MHz CH19225 1RB#24



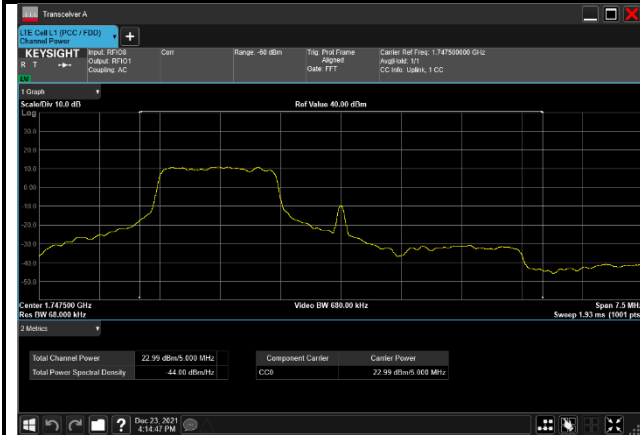
Band3 5MHz CH19575 1RB#0



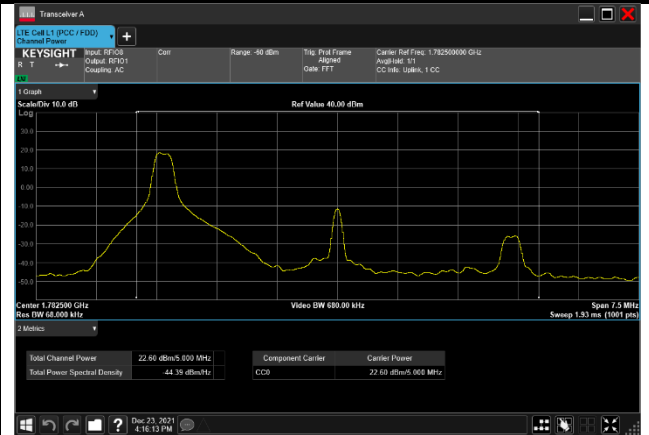
Band3 5MHz CH19575 1RB#24



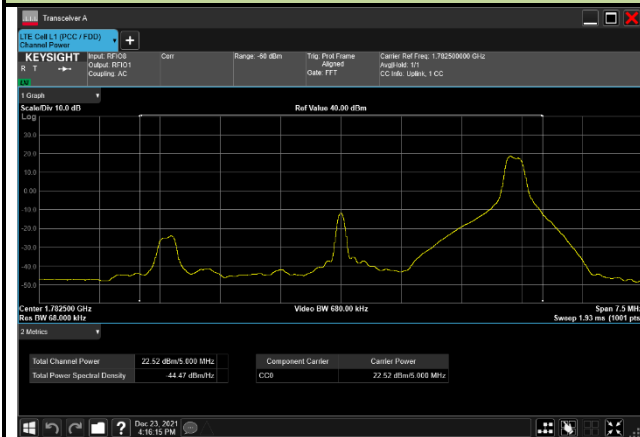
Band3 5MHz CH19575 8RB#0



Band3 5MHz CH19925 1RB#0



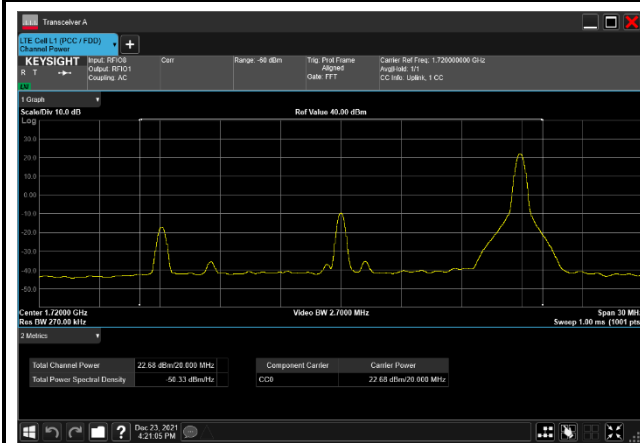
Band3 5MHz CH19925 1RB#24



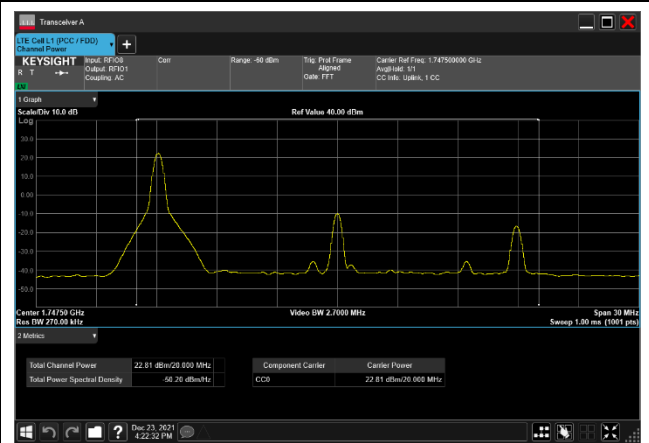
Band3 20MHz CH19300 1RB#0



Band3 20MHz CH19300 1RB#99



Band3 20MHz CH19575 1RB#0



Band3 20MHz CH19575 1RB#99



Band3 20MHz CH19575 18RB#0



Band3 20MHz CH19850 1RB#0



Band3 20MHz CH19850 1RB#99

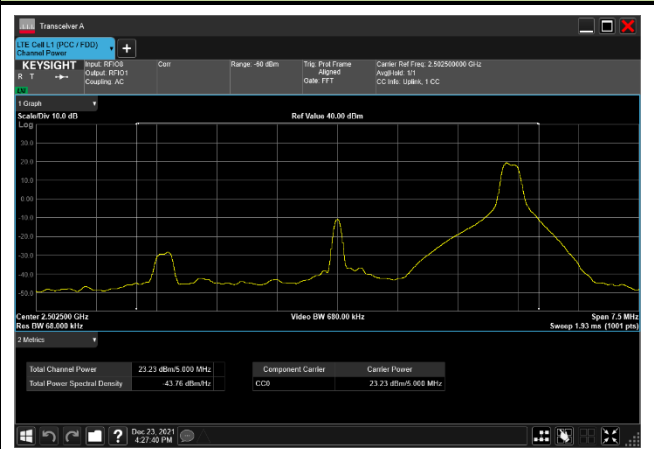


Band 7:

Band7 5MHz CH20775 1RB#0



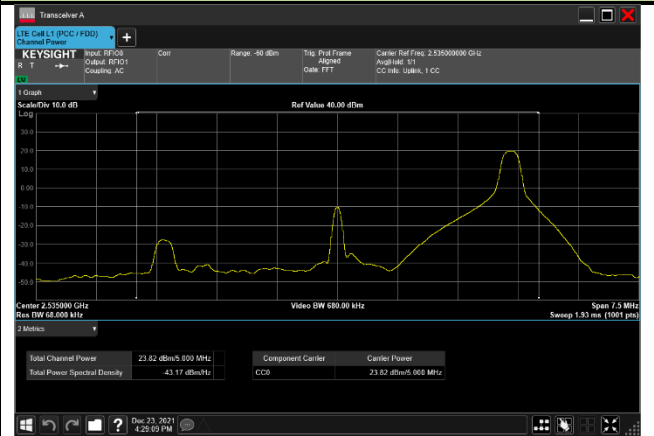
Band7 5MHz CH20775 1RB#24



Band7 5MHz CH21100 1RB#0



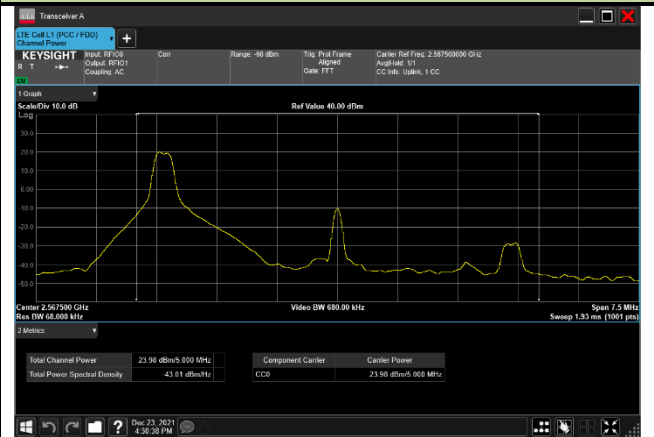
Band7 5MHz CH21100 1RB#24



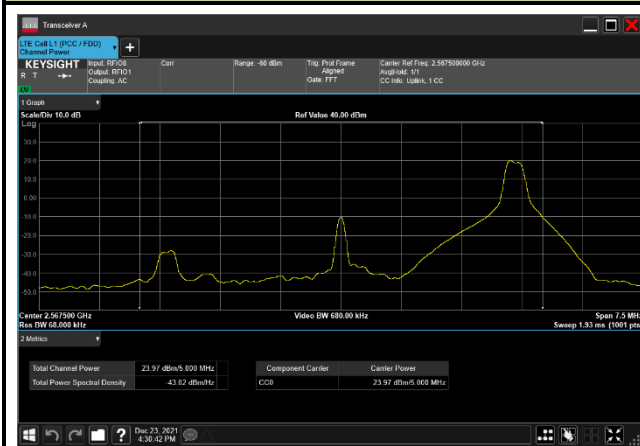
Band7 5MHz CH21100 8RB#0



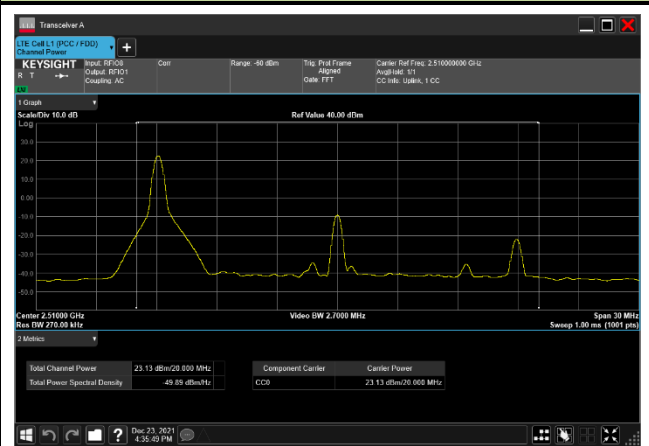
Band7 5MHz CH21425 1RB#0



Band7 5MHz CH21425 1RB#24



Band7 20MHz CH20850 1RB#0



Band7 20MHz CH20850 1RB#99



Band7 20MHz CH21100 1RB#0



Band7 20MHz CH21100 1RB#99



Band7 20MHz CH21100 1RB#18



Band7 20MHz CH21350 1RB#0

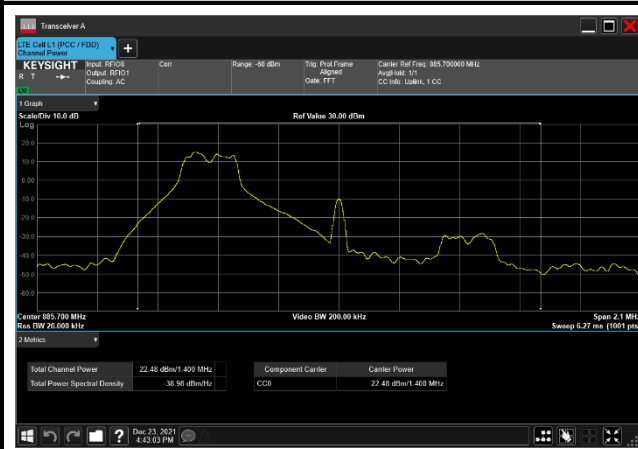


Band7 20MHz CH21350 1RB#99



Band 8:

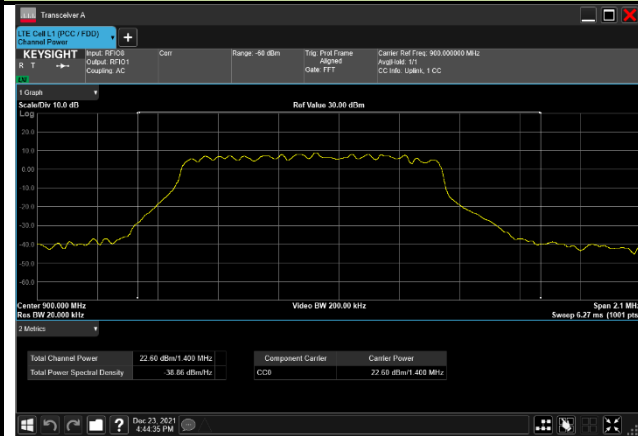
Band8 1.4MHz CH21507 1RB#0



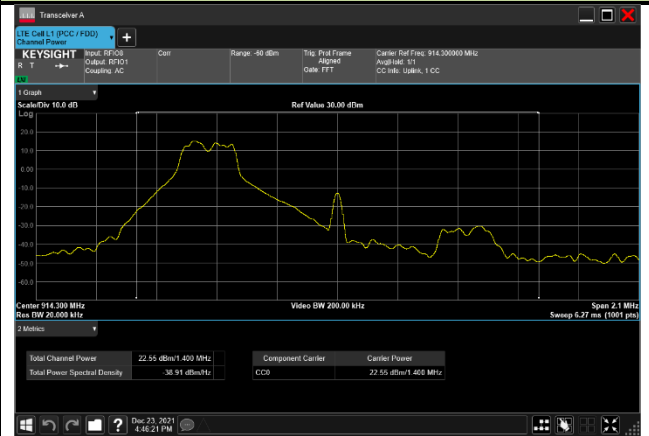
Band8 1.4MHz CH21650 1RB#0



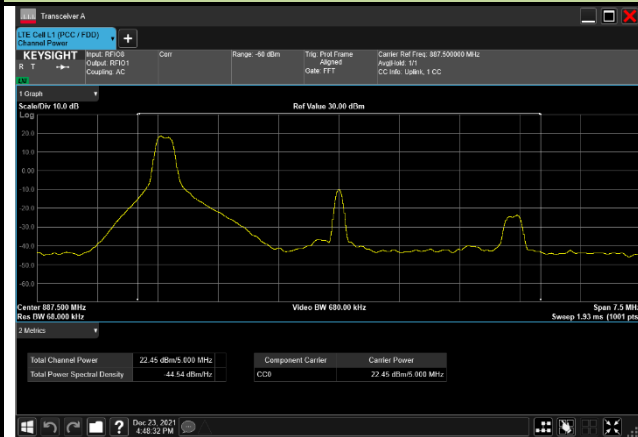
Band8 1.4MHz CH21650 5RB#0



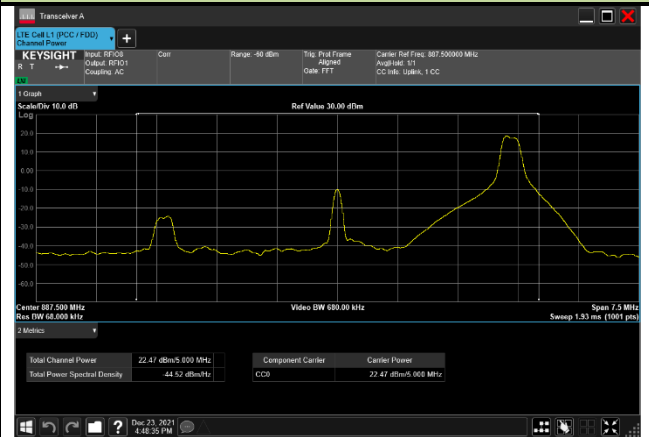
Band8 1.4MHz CH21793 1RB#0



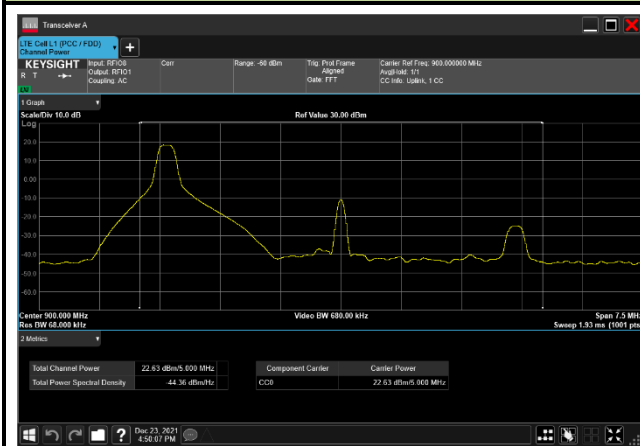
Band8 5MHz CH21525 1RB#0



Band8 5MHz CH21525 1RB#24



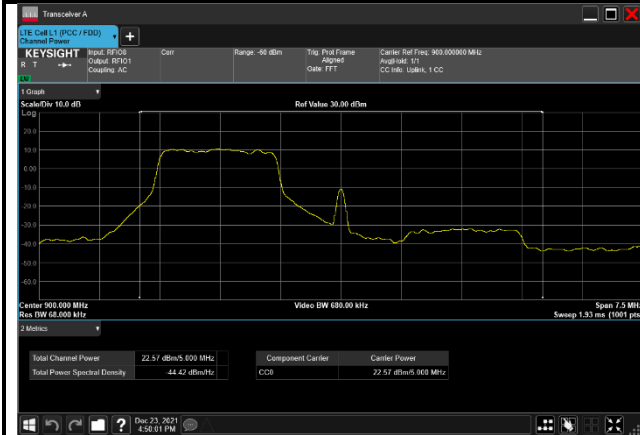
Band8 5MHz CH21650 1RB#0



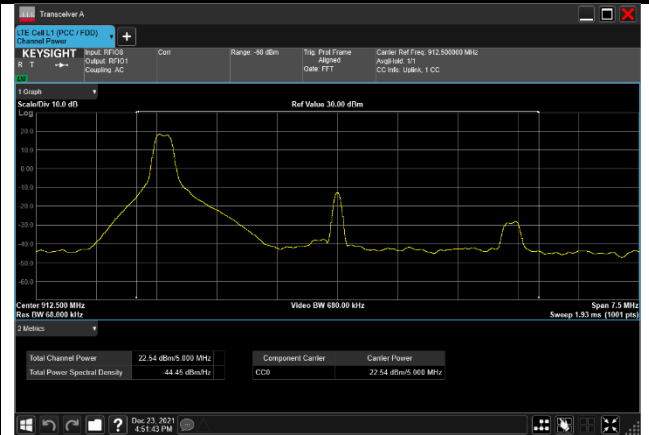
Band8 5MHz CH21650 1RB#24



Band8 5MHz CH21650 8RB#0



Band8 5MHz CH21775 1RB#0



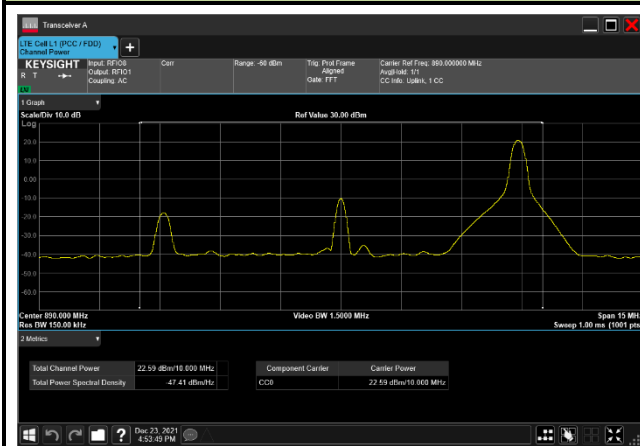
Band8 5MHz CH21775 1RB#24



Band8 10MHz CH21550 1RB#0



Band8 10MHz CH21550 1RB#49



Band8 10MHz CH21650 1RB#0



Band8 10MHz CH21650 1RB#49



Band8 10MHz CH21650 12RB#0



Band8 10MHz CH21750 1RB#0

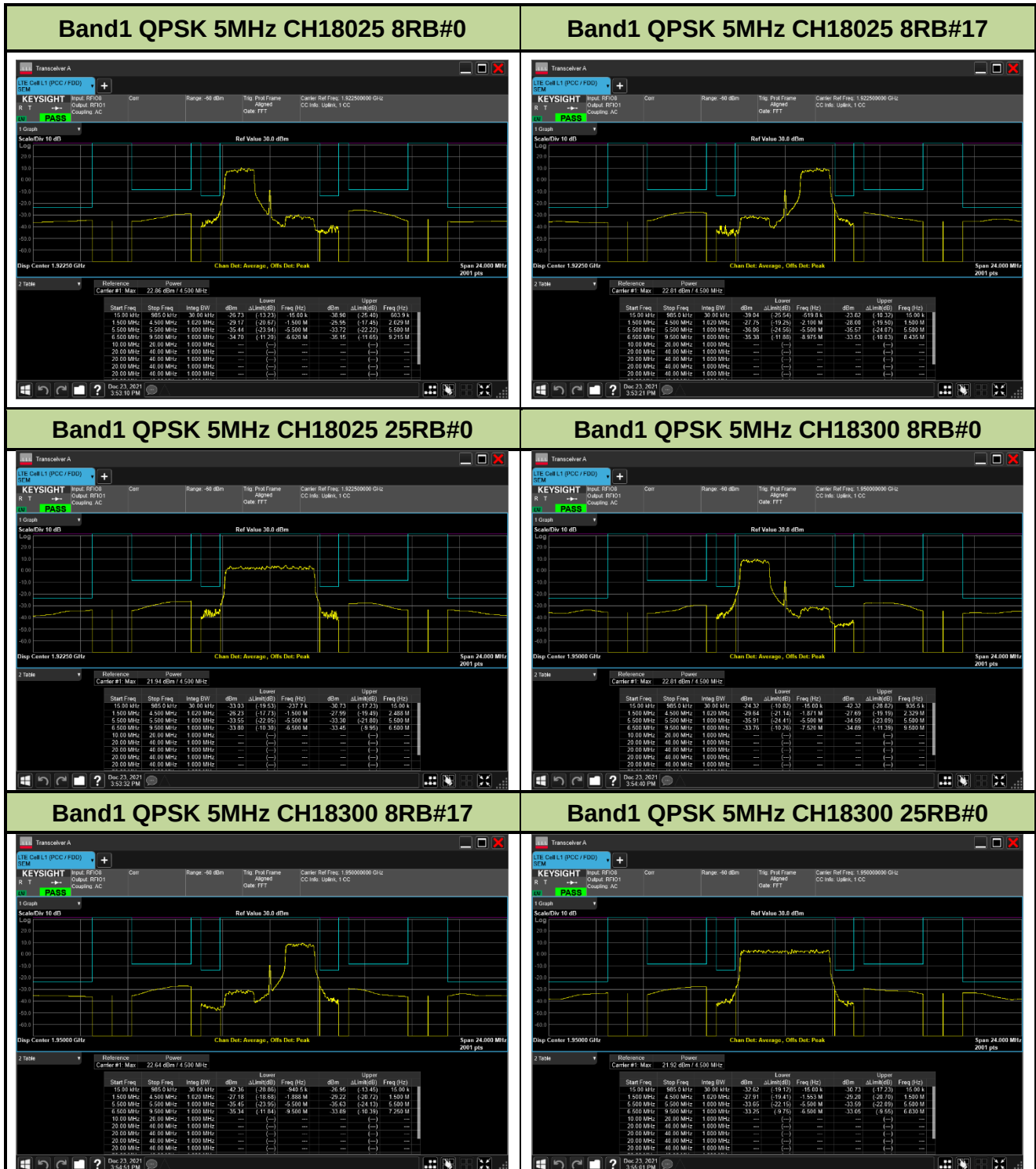


Band8 10MHz CH21750 1RB#49

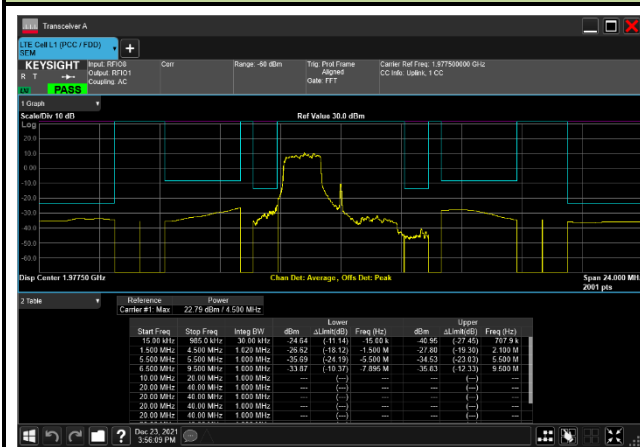


附錄 B: 發射頻譜波罩

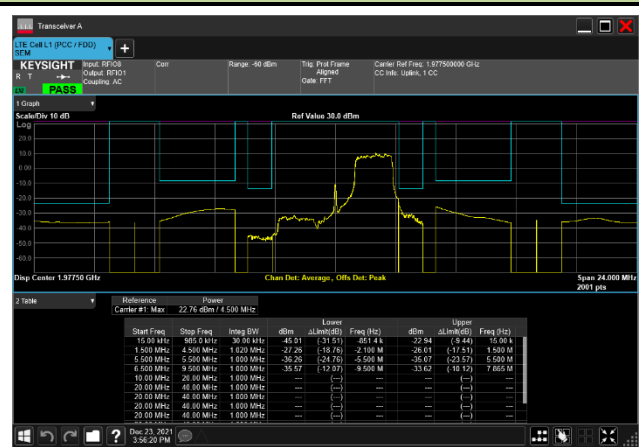
Band 1:



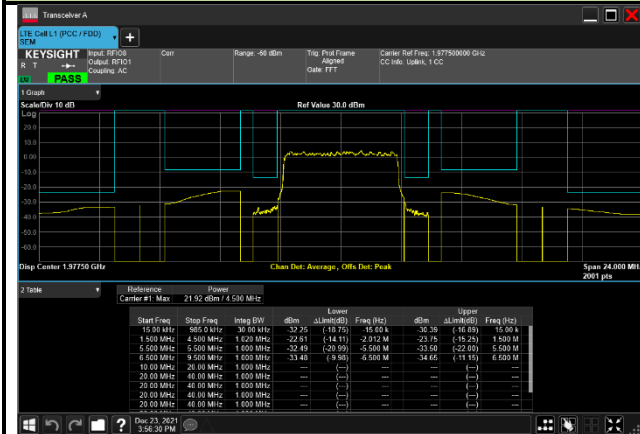
Band1 QPSK 5MHz CH18575 8RB#0



Band1 QPSK 5MHz CH18575 8RB#17



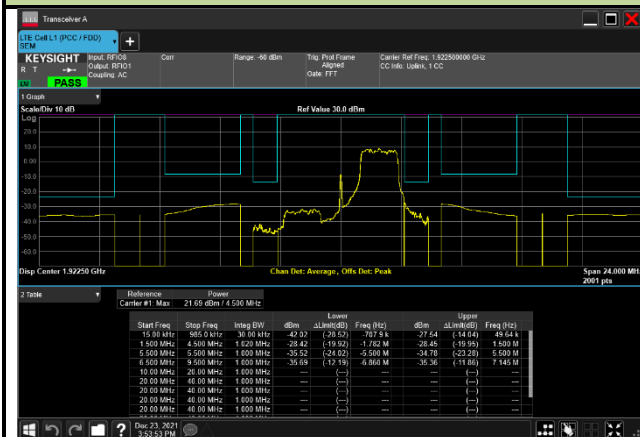
Band1 QPSK 5MHz CH18575 25RB#0



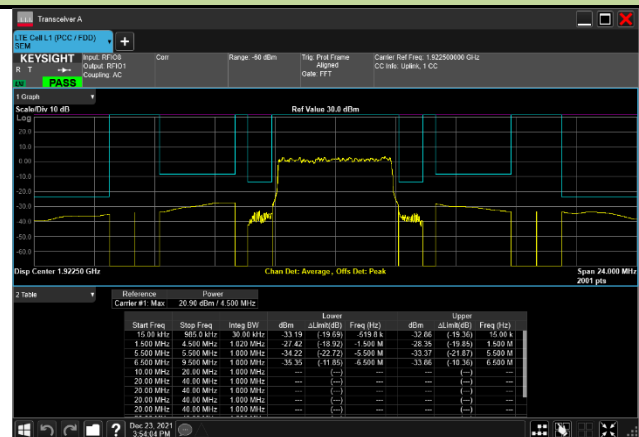
Band1 16-QAM 5MHz CH18025 8RB#0



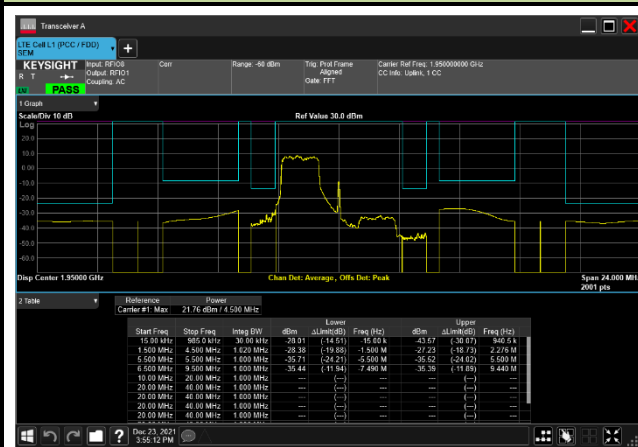
Band1 16-QAM 5MHz CH18025 8RB#17



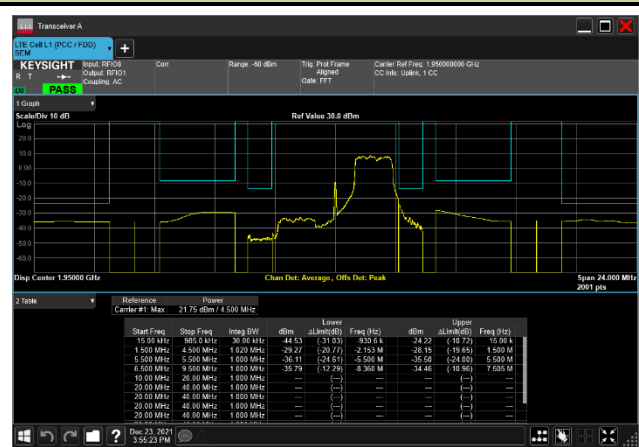
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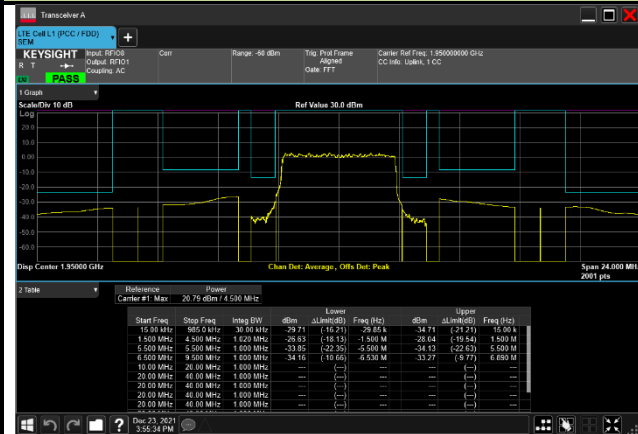
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Band1 16-QAM 5MHz CH18300 8RB#17



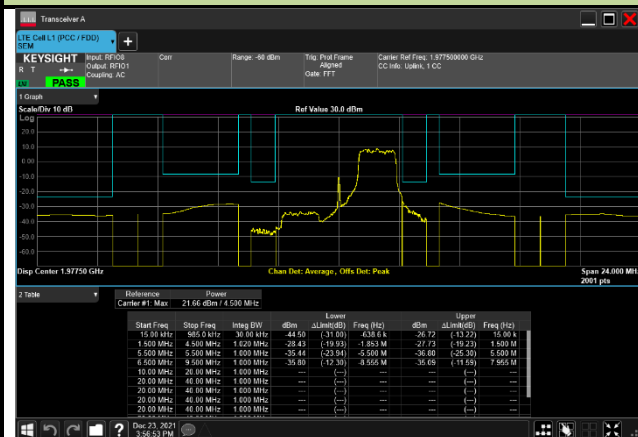
Band1 16-QAM 5MHz CH18300 25RB#0



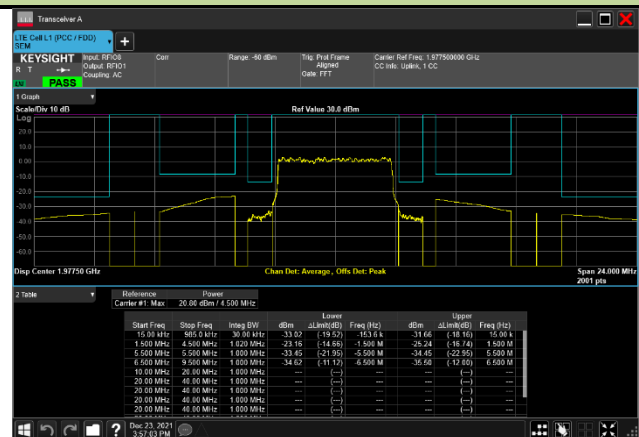
Band1 16-QAM 5MHz CH18575 8RB#0



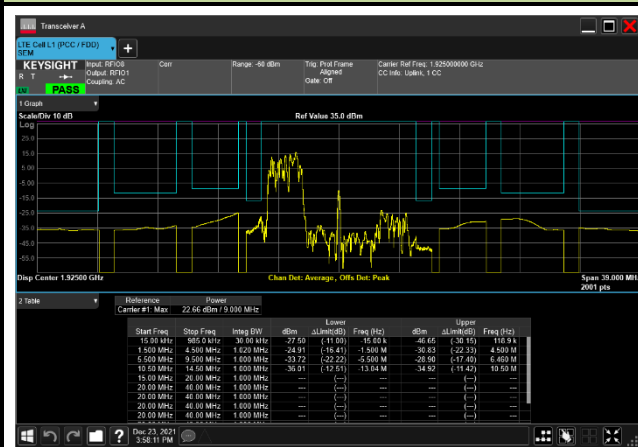
Band1 16-QAM 5MHz CH18575 8RB#17



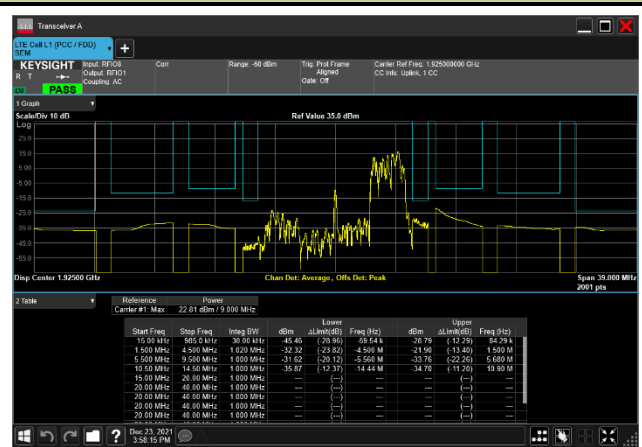
Band1 16-QAM 5MHz CH18575 25RB#0



Band1 QPSK 10MHz CH18050 12RB#0



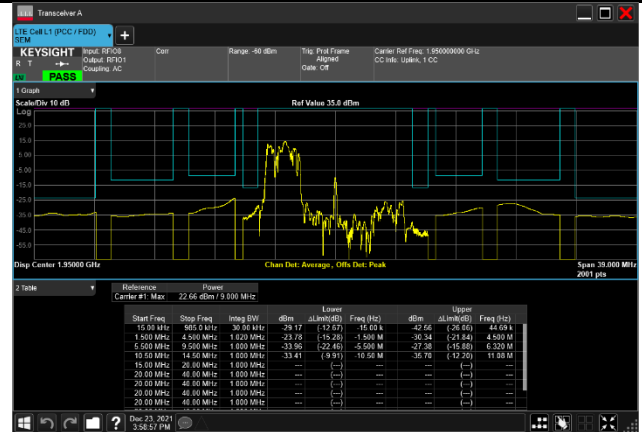
Band1 QPSK 10MHz CH18050 12RB#38



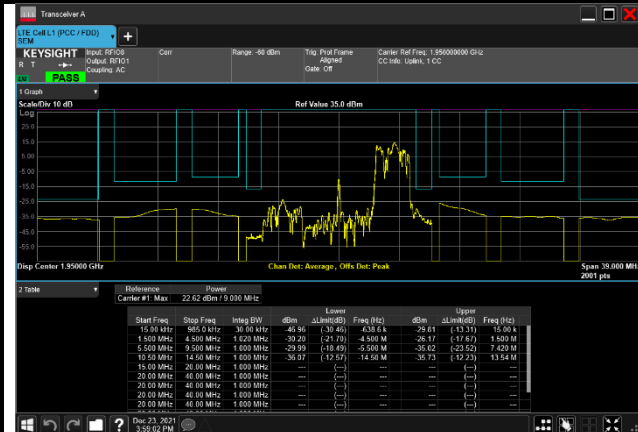
Band1 QPSK 10MHz CH18050 50RB#0



Band1 QPSK 10MHz CH18300 12RB#0



Band1 QPSK 10MHz CH18300 12RB#38



Band1 QPSK 10MHz CH18300 50RB#0



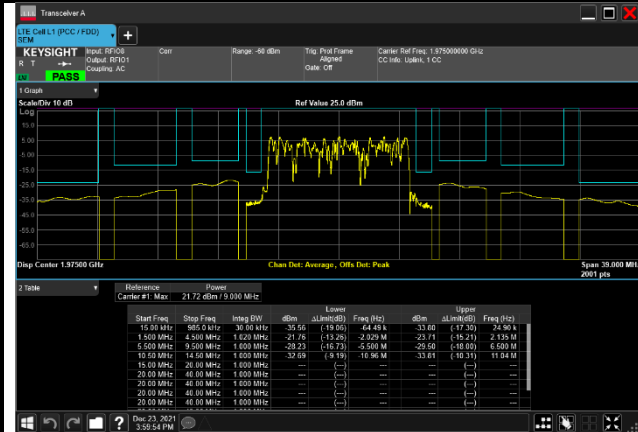
Band1 QPSK 10MHz CH18550 12RB#0



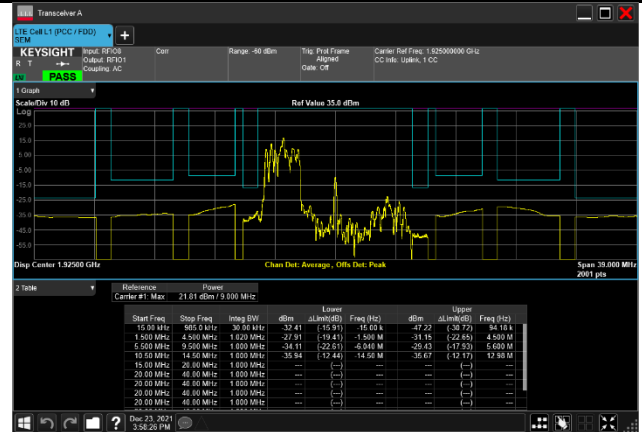
Band1 QPSK 10MHz CH18550 12RB#38



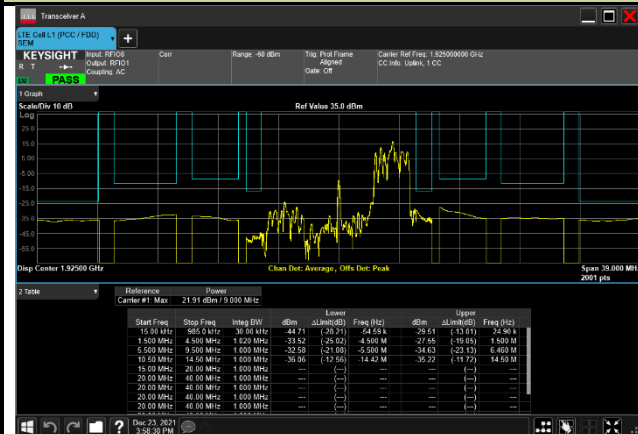
Band1 QPSK 10MHz CH18550 50RB#0



Band1 16-QAM 10MHz CH18050 12RB#0



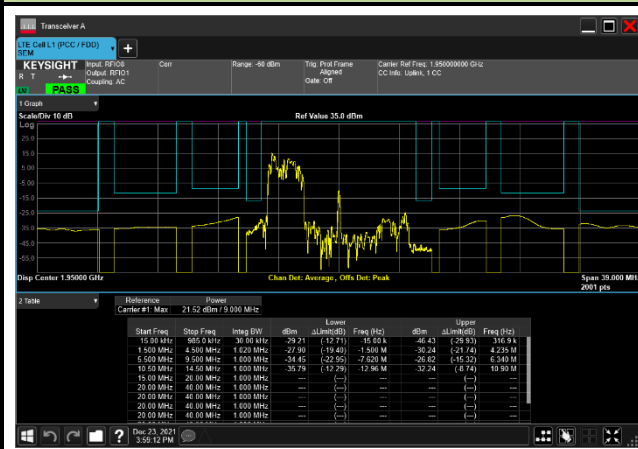
Band1 16-QAM 10MHz CH18050 12RB#38



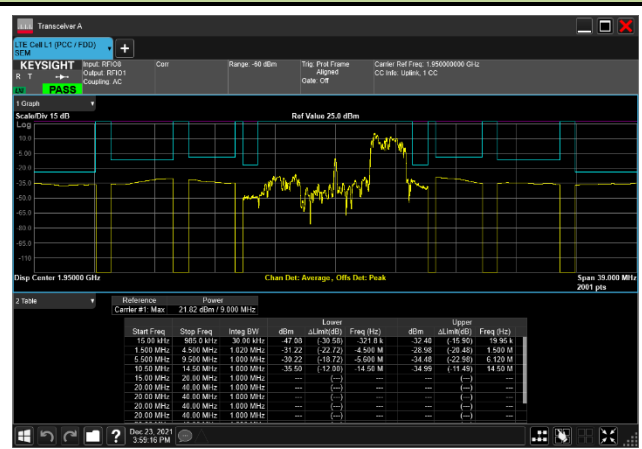
Band1 16-QAM 10MHz CH18050 50RB#0



Band1 16-QAM 10MHz CH18300 12RB#0



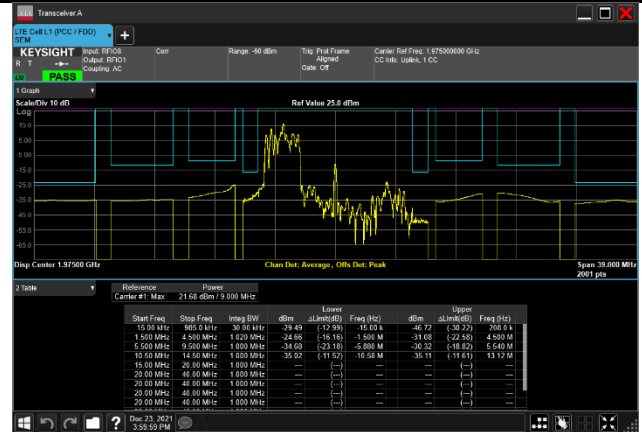
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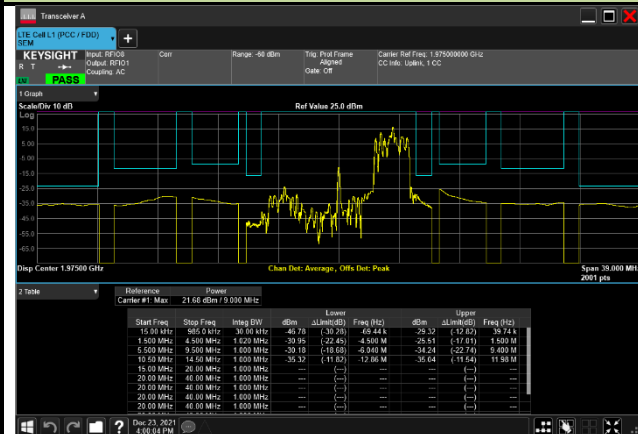
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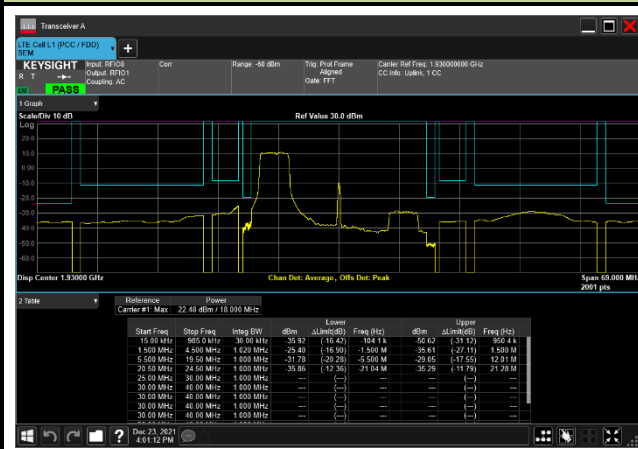
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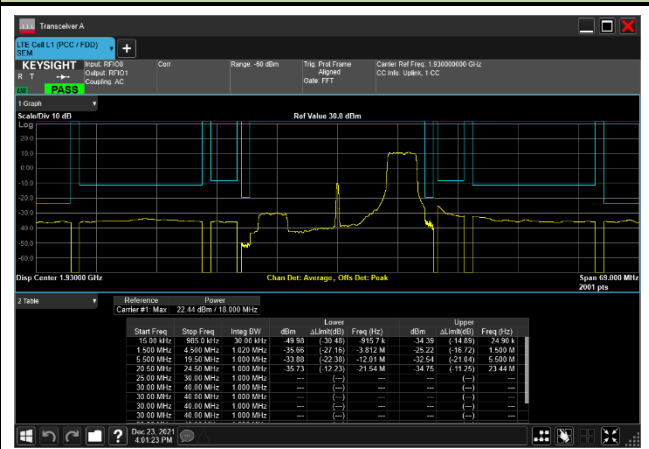
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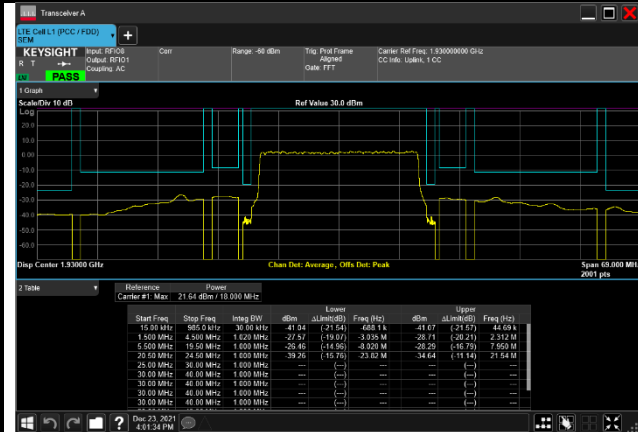
Band1 QPSK 20MHz CH18100 18RB#0



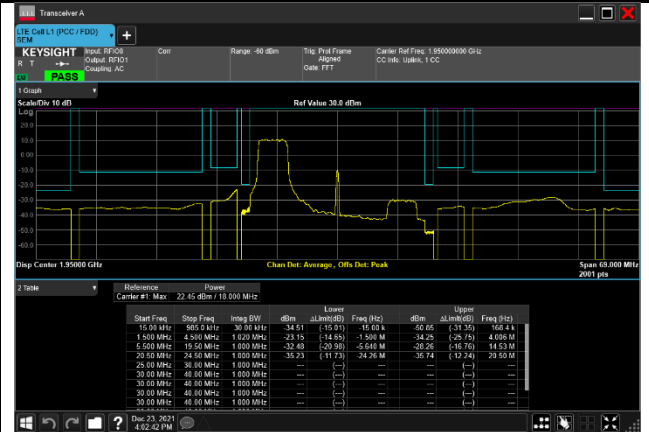
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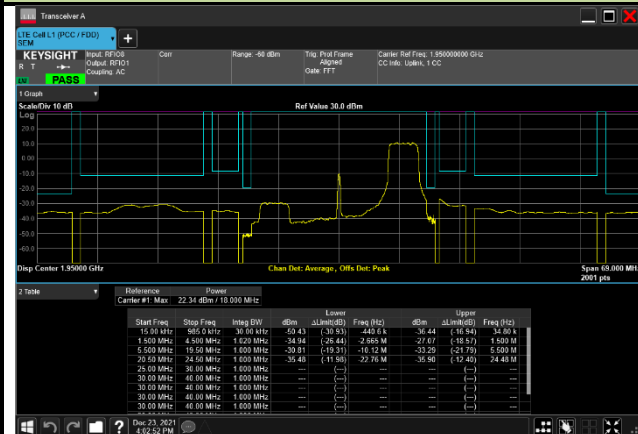
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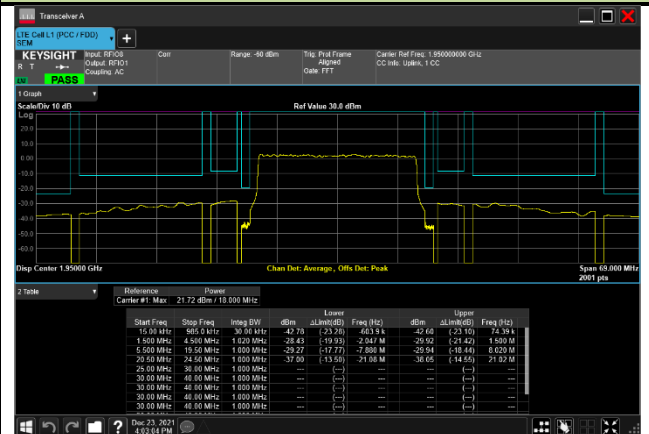
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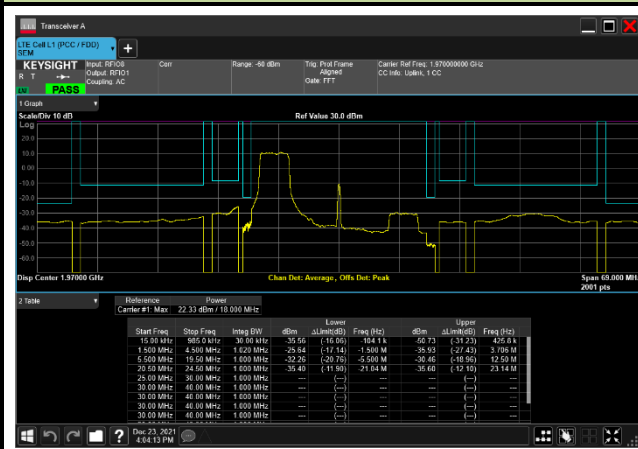
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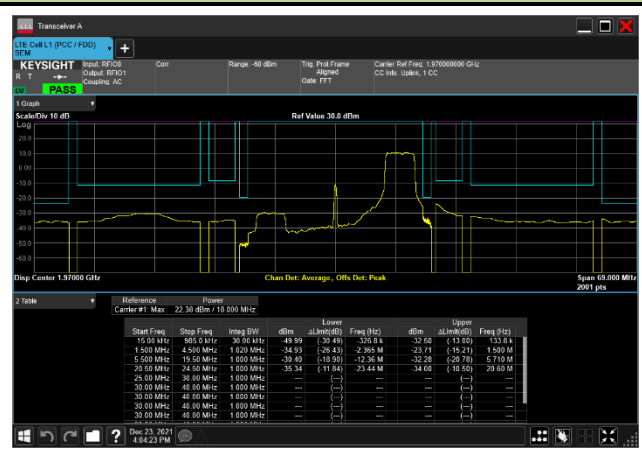
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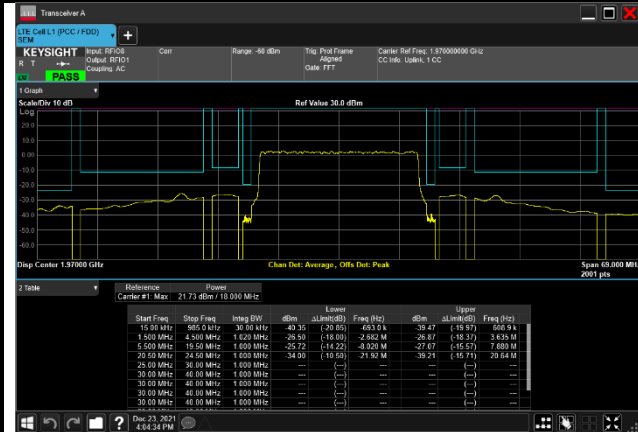
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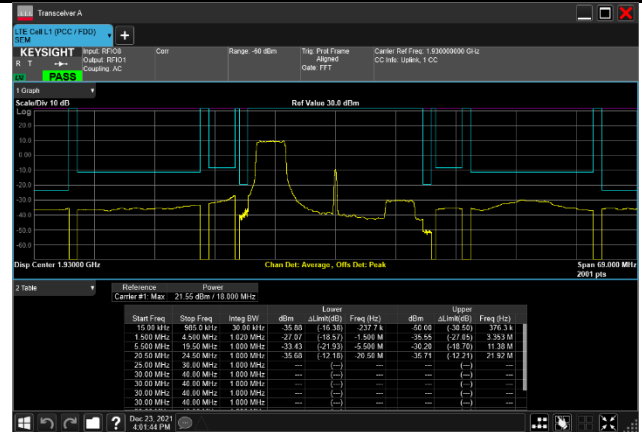
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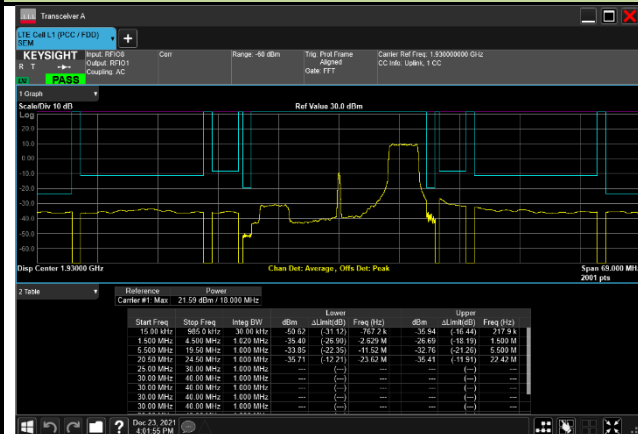
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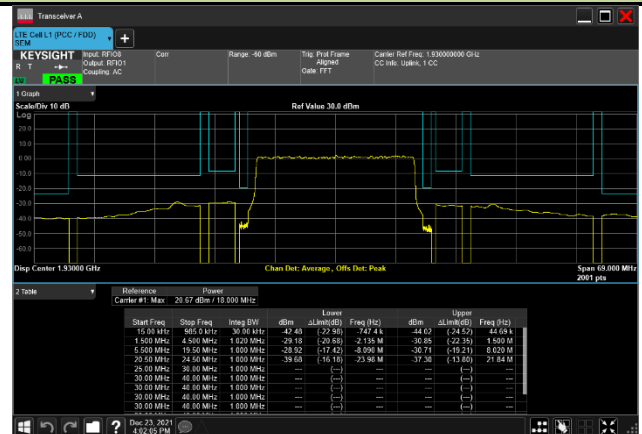
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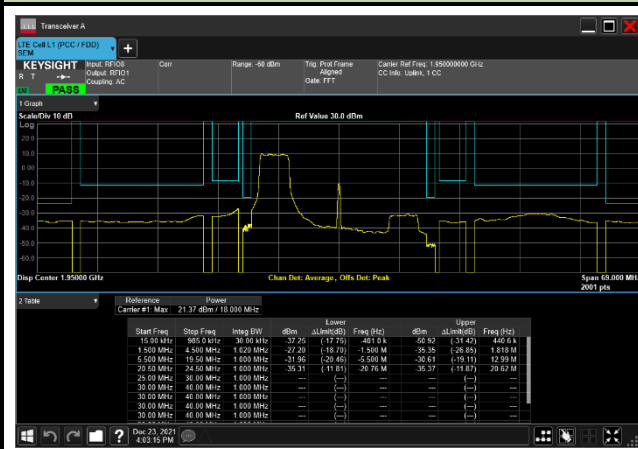
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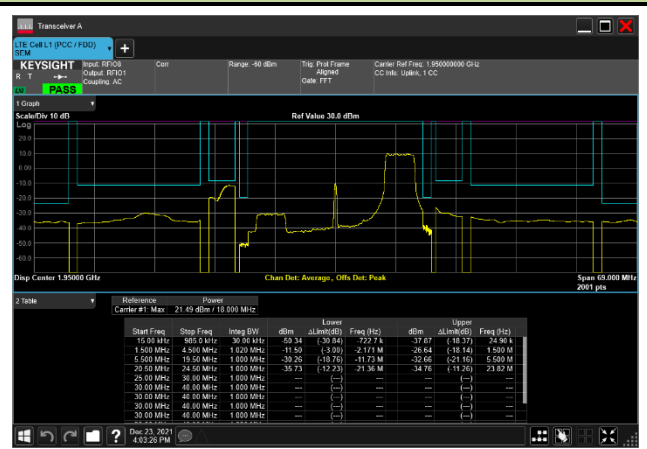
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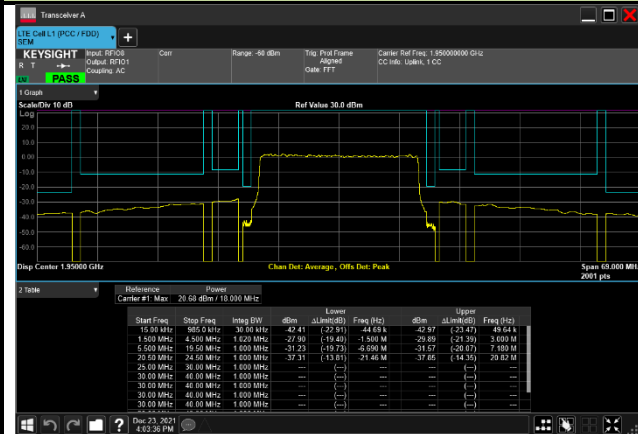
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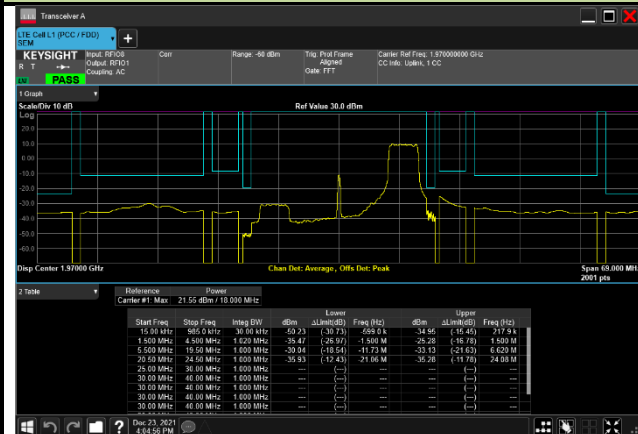
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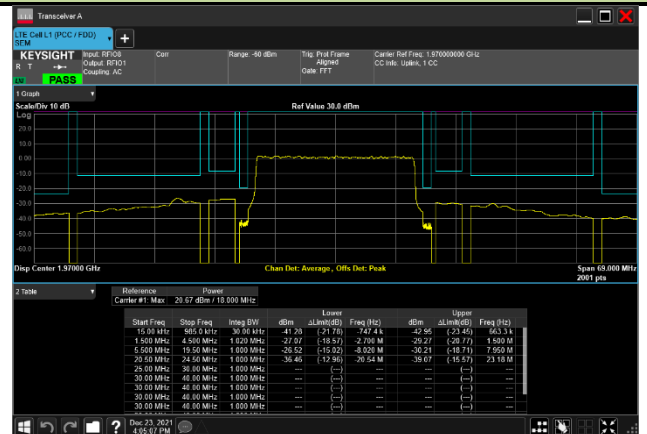
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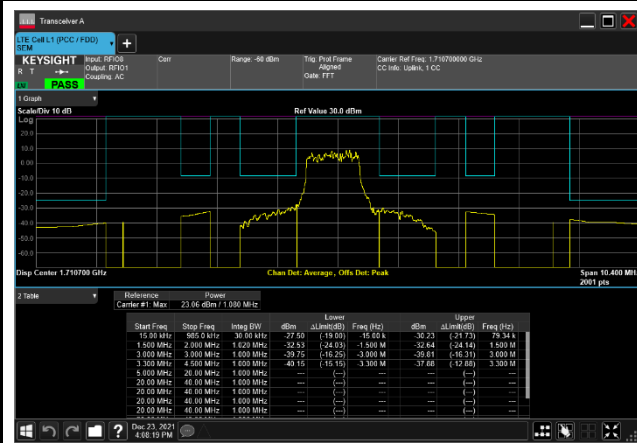


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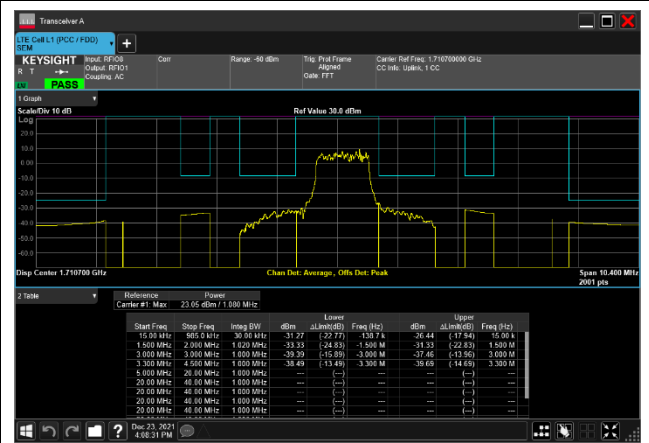


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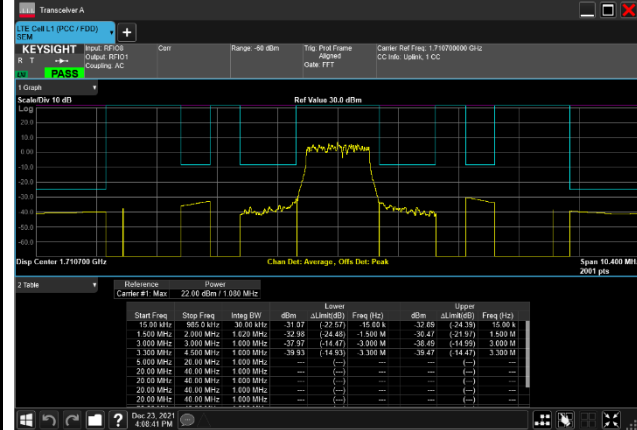
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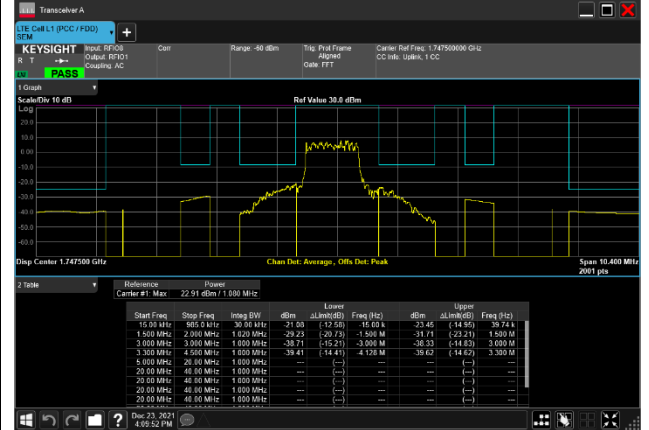
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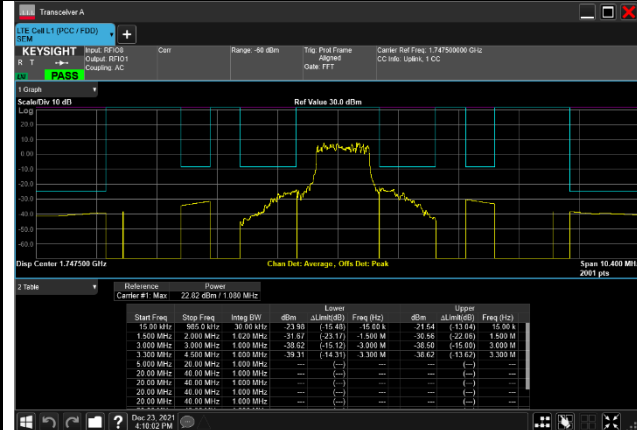
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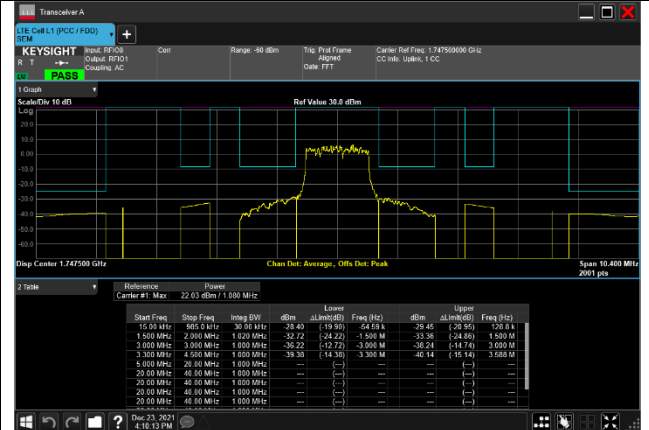
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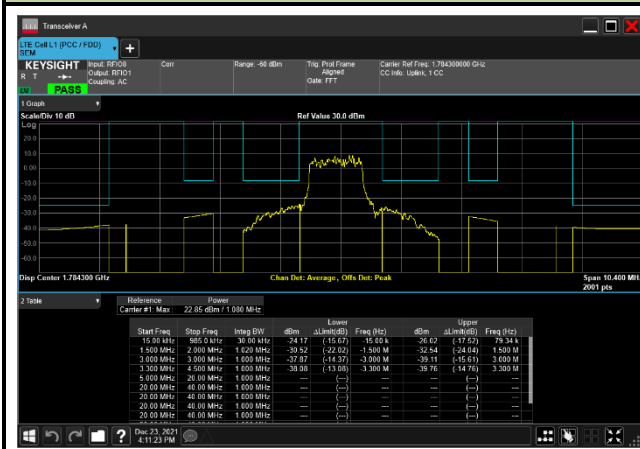
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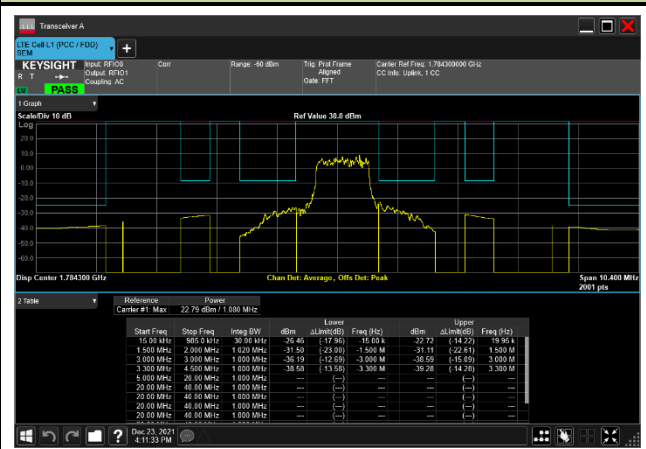
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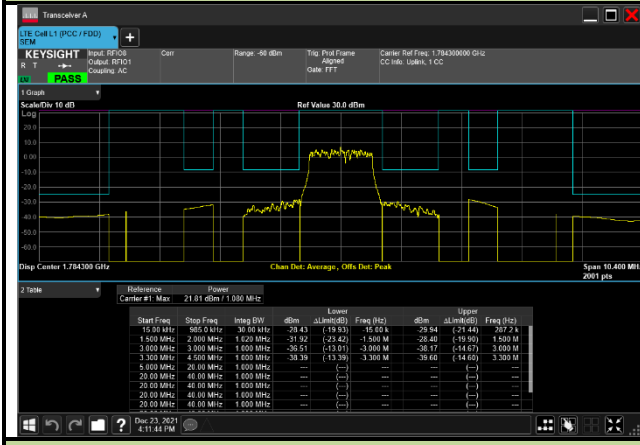
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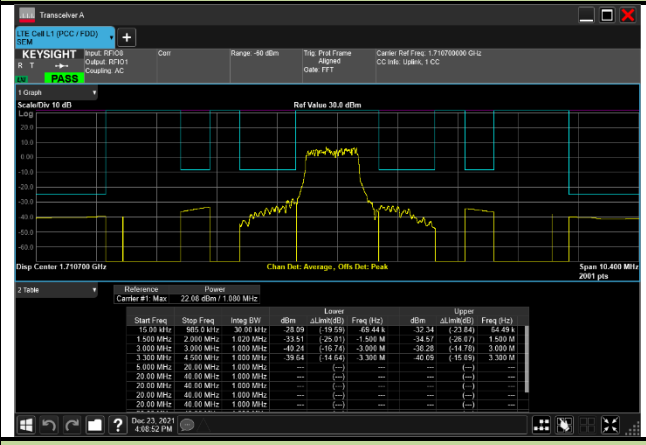
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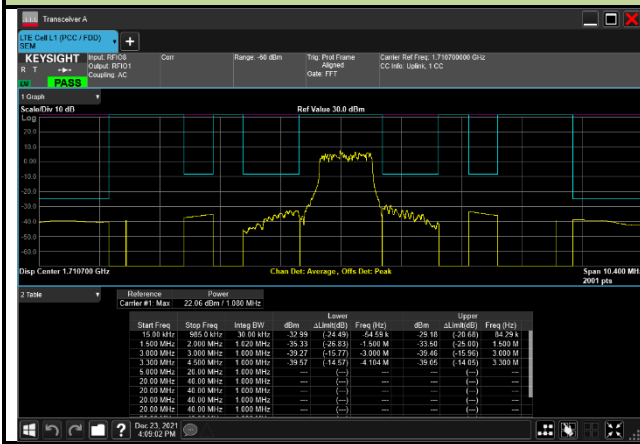
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Band3 16-QAM 1.4MHz CH19207 5RB#0



Band3 16-QAM 1.4MHz CH19207 5RB#1



Band3 16-QAM 1.4MHz CH19207 6RB#0

