

PLMN ALL (PLMN10)終端設備 行動通信電信終端設備技術規範試驗報告



申請廠商 聯齊科技股份有限公司
台北市南港區南港路三段47巷8號8樓
製造廠商 光寶科技股份有限公司
產品名稱 Atto
廠牌 NextDrive Co.
型號 Atto
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Approved By: _____

謝裕豐

謝裕豐

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民國109年09月25日頒佈之行動通信電信終端設備技術規範 PLMN ALL 測試。

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

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樣品負責。

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/A0005	00	Original.	Nov. 16, 2021	Yi-Shan Tsai

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1 測試實驗室資料:

1.1 認可登錄資訊:

實驗室認可登錄： 中華民國實驗室認證體系

認可編號： TAF 3702

認證有效期間： 110年06月14日起至113年06月13日止

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

1.2 實驗室場地資訊

測試場地	測試場地編號		
新北市新北產業園區五工路 134 號	Conducted 1	Conducted 2	Conducted 3
	Conducted 4	Conducted 5	Conducted 6
桃園市龜山區(華亞科技園區)科技一路 2 號	Conducted A	Conducted B	Conducted C
	Conducted D	Conducted E	Conducted F
	Conducted G		
註: 測試場地編號記錄於每項測試之儀器清單, 用以表示測試場地地址。			

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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)
功率限制	$\pm 1 \text{ dB}$
發射頻譜波罩	$\pm 1 \text{ dB}$
傳導帶外輻射發射限制	$\pm 1.69 \text{ dB}$
相鄰頻道洩漏功率比	$\pm 1 \text{ dB}$
頻率穩定性	$\pm 1.54 \text{ Hz}$
公眾告警功能 Sound period	$\pm 0 \%$
公眾告警功能 Sound Frequency	$\pm 0 \%$
公眾告警功能 Vibration period	$\pm 0.04 \%$

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	Atto
廠牌	NextDrive Co.
型號	Atto
使用電源	5 Vdc from AC/DC Adapter

3.2 射頻特性:

LTE Band	工作頻率上行 (MHz)	工作頻率下行 (MHz)	工作頻寬 (MHz)	發射模式	傳導輸出 (dBm):	等效輻射 (dBm):
FDD B1	1920-1980	2110-2170	5 / 10 / 15 / 20	1TX / 2RX	23.16	24.85
FDD B3	1710-1785	1805-1880	1.4 / 3 / 5 / 10 / 15 / 20		22.48	24.17
FDD B8	885-915	930-960	1.4 / 3 / 5 / 10		23.06	23.6

3.3 天線資訊:

Antenna Type	Brand	Antenna Model No.	LTE1 / LTE2
FPCB	PSA	RFFPA921611IMTB701	LTE2

Note: Transmission in frequencies in this test report are only available by the above antenna(s).

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
		LTE2
FDD B1	1920 ~ 1980	3.84
FDD B3	1710 ~ 1785	3.84
FDD B8	885 ~ 915	2.69

Note: Antenna information is provided by the applicant.

3.4 配件資訊

是否附賣		配件	廠牌	型號	Power Rating (Vdc)
Yes	No				
☒	☐	Adapter	元群科技股份有限公司	RA040-0503000JP	5

以下不附賣配件經申請者切結，器材不隨貨提供並由申請者提供併同檢驗。

是否附賣		配件	廠牌	型號	Power Rating (Vdc)
Yes	No				
☐	☒	USB Cable	Magic	MA-MF001	N/A

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4 行動寬頻行動臺檢測紀錄表(一)

項次	檢驗項目/合格標準	規範	結果判定
1	有效輻射功率限制之量測	行動通信電信終端設備技術規範6.3.1.1.1章節	合格
2	傳導輸出功率限制之量測	行動通信電信終端設備技術規範6.3.1.1.2章節	合格
3	發射頻譜波罩之量測	行動通信電信終端設備技術規範6.3.2章節	合格
4	傳導帶外輻射發射限制之量測	行動通信電信終端設備技術規範6.3.3章節	合格
5	相鄰頻道洩漏功率比之量測	行動通信電信終端設備技術規範6.3.4章節	合格
6	頻率穩定度之量測	行動通信電信終端設備技術規範6.3.5章節	合格
7	公眾告警廣播簡訊功能之量測	行動通信電信終端設備技術規範6.10.3章節	不適用
8	公眾告警聲響信號功能之量測	行動通信電信終端設備技術規範6.10.4章節	不適用
9	公眾告警振動信號功能之量測	行動通信電信終端設備技術規範6.10.5章節	不適用
10	IMEI碼量測	行動通信電信終端設備技術規範 6.11 章節	合格

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5 正常及極限測試條件

5.1 測試之正常溫度及溼度應為下列範圍

溫度: +15 度 ~ +35 度

相對溼度: 25% ~ 75%

當設備為車輛電池,則正常測試電壓為電池(6V, 12V)正常電壓的 1.1 倍,對於其他電源或電池形式(主要或次要)之操作時,則正常測試電壓依設備廠商標示。

*在極端環境溫度,終端設備若可通電開機,則不得無效使用 PLMN ALL 第 3 點規定之頻段。

5.2 測試極限溫度及電壓應為下列範圍

極限溫度要求:

高溫(Celsius)	低溫(Celsius)
+55 度	-10 度

極限電壓要求:

	低極限電壓 (relative to normal)	高極限電壓 (relative to normal)	正常電壓
AC mains	0.9	1.1	1
Regulated lead acid battery	0.9	1.3	1.1
Non Regulated lead acid battery	0.85	1	1
Leclanché / lithium	0.95	1.1	1.1
Mercury / nickel cadmium	0.9	1.1	1

5.3 測試電壓

電壓				
標稱電壓	高壓	常壓	低壓	關機電壓
5	5.5	5	4.5	2.7

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6 射頻中心頻率如下:

FDD Band 1					
BW (MHz)	Channel	Frequency (MHz)	BW (MHz)	Channel	Frequency (MHz)
5	18025	1922.5	20	18100	1930
	18300	1950		18300	1950
	18575	1977.5		18500	1970
FDD Band 3					
BW (MHz)	Channel	Frequency (MHz)	BW (MHz)	Channel	Frequency (MHz)
1.4	19207	1710.7	5	19225	1712.5
	19575	1747.5		19575	1747.5
	19943	1784.3		19925	1782.5
20	19300	1720.0			
	19575	1747.5			
	19850	1775.0			
FDD Band 8					
BW (MHz)	Channel	Frequency (MHz)	BW (MHz)	Channel	Frequency (MHz)
1.4	21507	885.7	5	21525	887.5
	21650	900.0		21650	900.0
	21793	914.3		21775	912.5
10	21550	890.0			
	21650	900.0			
	21750	910.0			

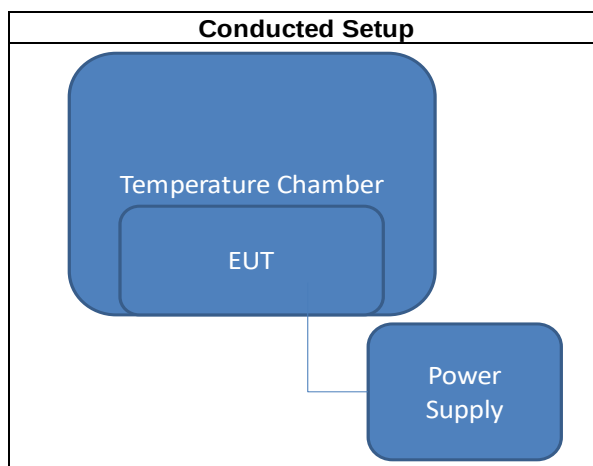
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7 測試配置

7.1 待測物與測試週邊配置圖



7.2 測試週邊描述

編號	產品別	商標	型號	序號
1.	DC Power Supply	Gwinstek	SPS-3610	GEV856769
2.	Temperature Chamber	TERCHY	MHK-120LK	1020582

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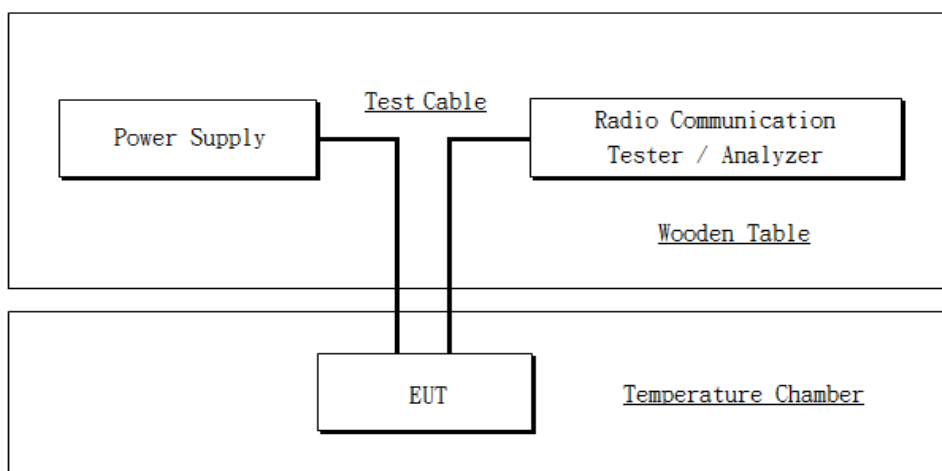
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8 有效輻射功率限制之量測

8.1 適用標準:

有效輻射功率限制	攜帶式行動臺：1W (30dBm)
	移動式行動臺：2W (33dBm)
傳導輸出功率限制	採 FDD 者：23 dBm +2.7/-3.2 分貝 (dB)。 採 TDD 者：23 dBm +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。

8.2 測試配置:



8.3 量測儀器:

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022

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8.4 測試方法:

- (1) 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。
- (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發射模式，均應分別檢測之。
- (3) 發射功率檢測的調變方式及 RB allocation 依附表 46、3GPP TS36.521 Table 6.2.2.4.1-1 規定。
- (4) 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。

附表 46、LTE 終端設備發射功率之測試參數

預設條件					
測試環境		常態環境常態電壓			
測試頻道		低、中、高			
測試頻道頻寬		最低、5 MHz 及最高			
測試參數					
	下行結構		上行結構		
頻道頻寬	行動臺設備最大發射功率測試不適用		調變方式	資源區塊分配	
				FDD	TDD
1.4MHz			QPSK	1	1
1.4MHz			QPSK	5	5
3MHz			QPSK	1	1
3MHz			QPSK	4	4
5MHz			QPSK	1	1
5MHz			QPSK	8	8
10MHz			QPSK	1	1
10MHz			QPSK	12	12
15MHz			QPSK	1	1
15MHz			QPSK	16	16
20MHz			QPSK	1	1
20MHz			QPSK	18	18

註：RB offset 設定值及應檢項目之測試方法，依 3GPP TS 36.521 技術標準規定。

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8.5 量測結果:

等效輻射功率(Effective Radiated Power, ERP): $EIRP = \text{傳導輸出功率} + \text{Gain}$ / $ERP = EIRP - 2.15$

FDD Band 1										
BW (Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Limit (dBm)	Gain (dBi)	EIRP (dBm)	ERP (dBm)
5	QPSK	1 RB	0	1922.5	18025	23.03	19.8~25.7	3.84	26.87	24.72
			0	1950	18300	22.94	19.8~25.7	3.84	26.78	24.63
			24	1977.5	18575	22.89	19.8~25.7	3.84	26.73	24.58
		8 RB	0	1922.5	18025	23.07	19.8~25.7	3.84	26.91	24.76
			0	1950	18300	23.00	19.8~25.7	3.84	26.84	24.69
			17	1977.5	18575	23.06	19.8~25.7	3.84	26.90	24.75
20	QPSK	1 RB	0	1930	18100	23.04	19.8~25.7	3.84	26.88	24.73
			0	1950	18300	23.04	19.8~25.7	3.84	26.88	24.73
			99	1970	18500	22.94	19.8~25.7	3.84	26.78	24.63
		18 RB	0	1930	18100	22.93	19.8~25.7	3.84	26.77	24.62
			0	1950	18300	23.10	19.8~25.7	3.84	26.94	24.79
			82	1970	18500	23.16	19.8~25.7	3.84	27.00	24.85
FDD Band 3										
BW (Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Limit (dBm)	Gain (dBi)	EIRP	ERP
1.4	QPSK	1 RB	0	1710.7	19207	22.03	19.8~25.7	3.84	25.87	23.72
			0	1747.5	19575	22.28	19.8~25.7	3.84	26.12	23.97
			5	1784.3	19943	22.42	19.8~25.7	3.84	26.26	24.11
		5 RB	0	1710.7	19207	22.44	19.8~25.7	3.84	26.28	24.13
			0	1747.5	19575	22.40	19.8~25.7	3.84	26.24	24.09
			1	1784.3	19943	22.48	19.8~25.7	3.84	26.32	24.17
5	QPSK	1 RB	0	1712.5	19225	22.16	19.8~25.7	3.84	26.00	23.85
			0	1747.5	19575	22.23	19.8~25.7	3.84	26.07	23.92
			24	1782.5	19925	22.13	19.8~25.7	3.84	25.97	23.82
		8 RB	0	1712.5	19225	22.24	19.8~25.7	3.84	26.08	23.93
			0	1747.5	19575	22.28	19.8~25.7	3.84	26.12	23.97
			17	1782.5	19925	22.37	19.8~25.7	3.84	26.21	24.06
20	QPSK	1 RB	0	1720.0	19300	22.37	19.8~25.7	3.84	26.21	24.06
			0	1747.5	19575	22.28	19.8~25.7	3.84	26.12	23.97
			99	1775.0	19850	22.28	19.8~25.7	3.84	26.12	23.97
		18 RB	0	1720.0	19300	22.40	19.8~25.7	3.84	26.24	24.09
			0	1747.5	19575	22.42	19.8~25.7	3.84	26.26	24.11
			82	1775.0	19850	22.41	19.8~25.7	3.84	26.25	24.10

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FDD Band 8										
BW (Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Limit (dBm)	Gain (dBi)	EIRP	ERP
1.4	QPSK	1 RB	0	885.7	21507	22.74	19.8~25.7	2.69	25.43	23.28
			0	900.0	21650	22.89	19.8~25.7	2.69	25.58	23.43
			5	914.3	21793	22.71	19.8~25.7	2.69	25.40	23.25
		5 RB	0	885.7	21507	23.02	19.8~25.7	2.69	25.71	23.56
			0	900.0	21650	22.95	19.8~25.7	2.69	25.64	23.49
			1	914.3	21793	22.93	19.8~25.7	2.69	25.62	23.47
5	QPSK	1 RB	0	887.5	21525	22.74	19.8~25.7	2.69	25.43	23.28
			0	900.0	21650	22.77	19.8~25.7	2.69	25.46	23.31
			24	912.5	21775	22.76	19.8~25.7	2.69	25.45	23.30
		8 RB	0	887.5	21525	22.93	19.8~25.7	2.69	25.62	23.47
			0	900.0	21650	23.04	19.8~25.7	2.69	25.73	23.58
			17	912.5	21775	22.91	19.8~25.7	2.69	25.60	23.45
10	QPSK	1 RB	0	890.0	21550	22.85	19.8~25.7	2.69	25.54	23.39
			0	900.0	21650	22.86	19.8~25.7	2.69	25.55	23.40
			49	910.0	21750	22.71	19.8~25.7	2.69	25.40	23.25
		12 RB	0	890.0	21550	22.89	19.8~25.7	2.69	25.58	23.43
			0	900.0	21650	23.06	19.8~25.7	2.69	25.75	23.60
			38	910.0	21750	22.97	19.8~25.7	2.69	25.66	23.51

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9 發射頻譜波罩之量測

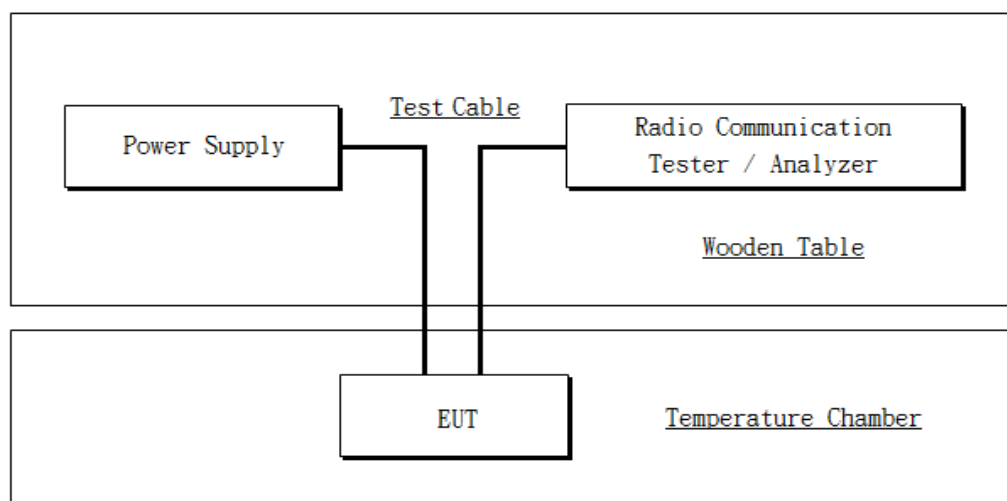
9.1 適用標準:

須符合下列頻譜波罩規範值

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

註： Δf_{OOB} 是發射頻帶外之頻率偏移量 (□ Frequency of Out-of-band emission)

9.2 測試配置:



9.3 量測儀器:

參考本報告 8.3 節

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9.4 測試方法:

- (1) 頻譜波罩限制值依頻道頻寬及 f_{OOB} 而不同，量測時的解析頻寬不小於4.1附表的設定值。
- (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發射模式，均應分別檢測之。
- (3) 檢測的調變方式及 RB allocation 依附表 48、3GPP TS36.521 Table 6.6.2.1.4.1-1 規定。

附表 48、LTE 終端設備頻譜波罩之測試參數

預設條件				
測試環境		常態環境常態電壓		
測試頻道		低、中、高		
測試頻道頻寬		最低、5 MHz、10 MHz 及最高		
測試參數				
	下行結構	上行結構		
頻道頻寬	頻譜波罩測試不適用	調變方式	資源區塊分配	
			FDD	TDD
1.4MHz		QPSK	6	6
1.4MHz		QPSK	5	5
1.4MHz		16QAM	5	5
1.4MHz		16QAM	6	6
3MHz		QPSK	15	15
3MHz		QPSK	4	4
3MHz		16QAM	4	4
3MHz		16QAM	15	15
5MHz		QPSK	25	25
5MHz		QPSK	8	8
5MHz		16QAM	8	8
5MHz		16QAM	25	25
10MHz		QPSK	50	50
10MHz		QPSK	12	12
10MHz		16QAM	12	12
10MHz		16QAM	50（註 1）	50（註 1）
15MHz		QPSK	75	75
15MHz		QPSK	16	16
15MHz		16QAM	16	16
15MHz		16QAM	75（註 1）	75（註 1）
20MHz		QPSK	100	100
20MHz		QPSK	18	18
20MHz		16QAM	18	18
20MHz		16QAM	100（註 1）	100（註 1）

註：

1、僅適用於用戶設備類別 (UE-Categories) ≥ 2 。

2、RB offset 設定值及應檢項目之測試方法，依 3GPP TS 36.521 技術標準規定。

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9.5 量測結果:

LTEB1

BW (MHz)	RB Size	RB Offset	Channel	Modulation	Pass / Fail	Modulation	Pass / Fail
5	8	0	18025	QPSK	Pass	16QAM	Pass
			18300		Pass		Pass
			18575		Pass		Pass
	8	17	18025		Pass		Pass
			18300		Pass		Pass
			18575		Pass		Pass
	25	0	18025		Pass		Pass
			18300		Pass		Pass
			18575		Pass		Pass
10	12	0	18050		Pass		Pass
			18300		Pass		Pass
			18550		Pass		Pass
	12	38	18050		Pass		Pass
			18300		Pass		Pass
			18550		Pass		Pass
	50	0	18050		Pass		Pass
			18300		Pass		Pass
			18550		Pass		Pass
20	18	0	18100		Pass		Pass
			18300		Pass		Pass
			18500		Pass		Pass
	18	82	18100		Pass		Pass
			18300		Pass		Pass
			18500		Pass		Pass
	100	0	18100		Pass		Pass
			18300		Pass		Pass
			18500		Pass		Pass

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LTEB3

BW (MHz)	RB Size	RB Offset	Channel	Modulation	Pass / Fail	Modulation	Pass / Fail
1.4	5	0	19207	QPSK	Pass	16QAM	Pass
			19575		Pass		Pass
			19943		Pass		Pass
	5	1	19207		Pass		Pass
			19575		Pass		Pass
			19943		Pass		Pass
	6	0	19207		Pass		Pass
			19575		Pass		Pass
			19943		Pass		Pass
5	8	0	19225		Pass		Pass
			19575		Pass		Pass
			19925		Pass		Pass
	8	17	19225		Pass		Pass
			19575		Pass		Pass
			19925		Pass		Pass
	25	0	19225		Pass		Pass
			19575		Pass		Pass
			19925		Pass		Pass
10	12	0	19250		Pass		Pass
			19575		Pass		Pass
			19900		Pass		Pass
	12	38	19250		Pass		Pass
			19575		Pass		Pass
			19900		Pass		Pass
	50	0	19250		Pass		Pass
			19575		Pass		Pass
			19900		Pass		Pass
20	18	0	19300		Pass		Pass
			19575		Pass		Pass
			19850		Pass		Pass
	18	82	19300		Pass		Pass
			19575		Pass		Pass
			19850		Pass		Pass
	100	0	19300		Pass		Pass
			19575		Pass		Pass
			19850		Pass		Pass

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LTEB8

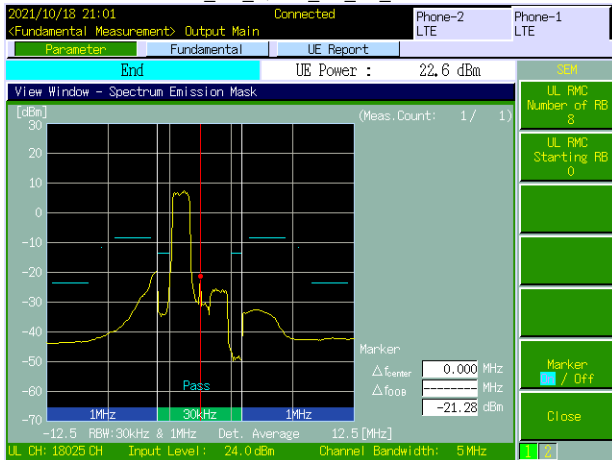
BW (MHz)	RB Size	RB Offset	Channel	Modulation	Pass / Fail	Modulation	Pass / Fail
1.4	5	0	21507	QPSK	Pass	16QAM	Pass
			21650		Pass		Pass
			21793		Pass		Pass
	5	1	21507		Pass		Pass
			21650		Pass		Pass
			21793		Pass		Pass
	6	0	21507		Pass		Pass
			21650		Pass		Pass
			21793		Pass		Pass
5	8	0	21525		Pass		Pass
			21650		Pass		Pass
			21775		Pass		Pass
	8	17	21525		Pass		Pass
			21650		Pass		Pass
			21775		Pass		Pass
	25	0	21525		Pass		Pass
			21650		Pass		Pass
			21775		Pass		Pass
10	12	0	21550		Pass		Pass
			21650		Pass		Pass
			21750		Pass		Pass
	12	38	21550		Pass		Pass
			21650		Pass		Pass
			21750		Pass		Pass
	50	0	21550		Pass		Pass
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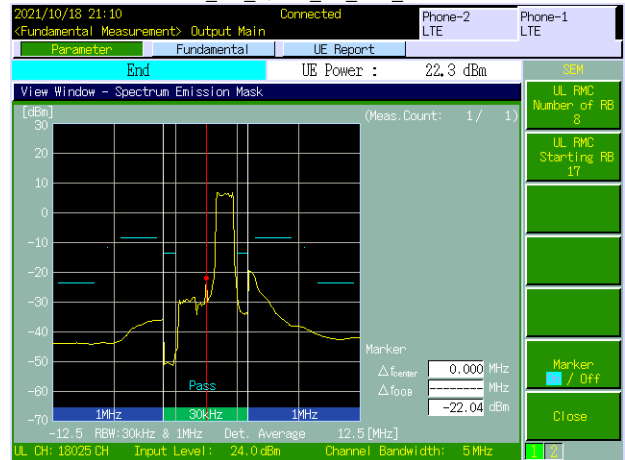
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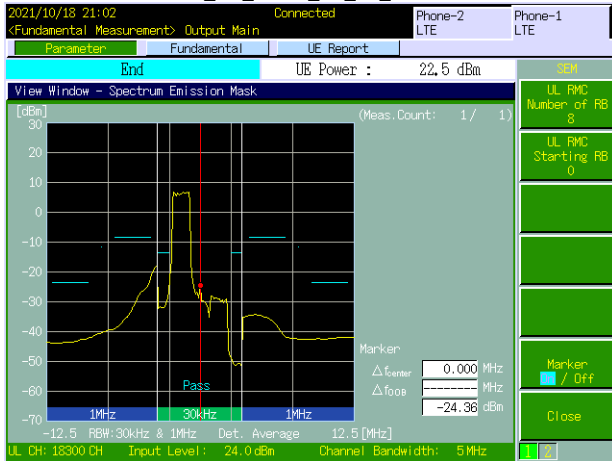
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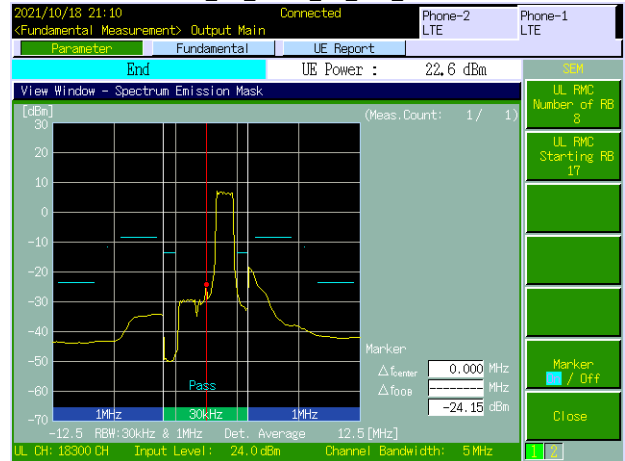
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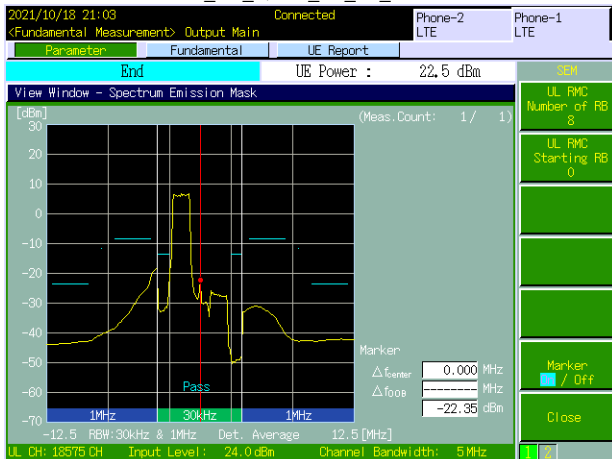
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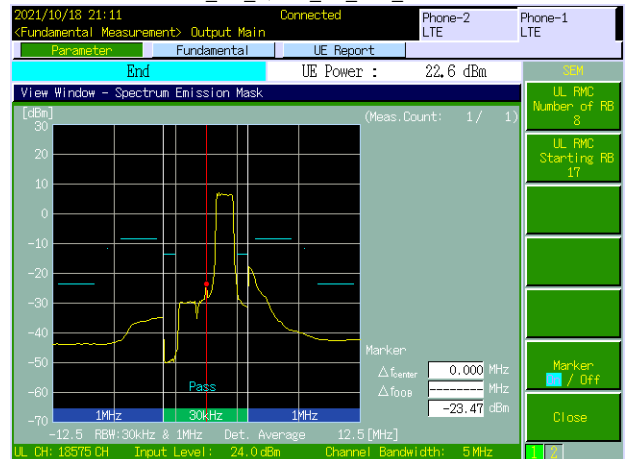
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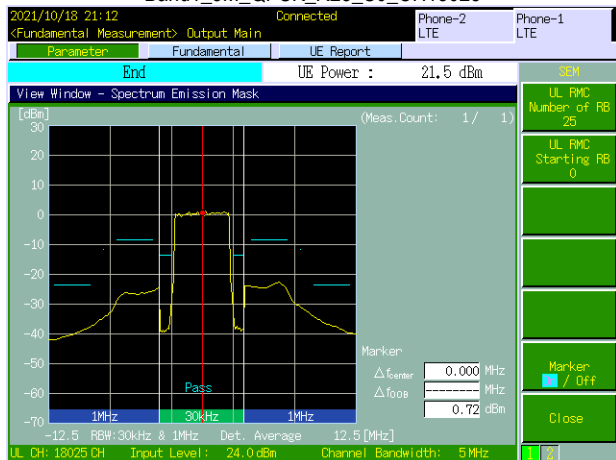


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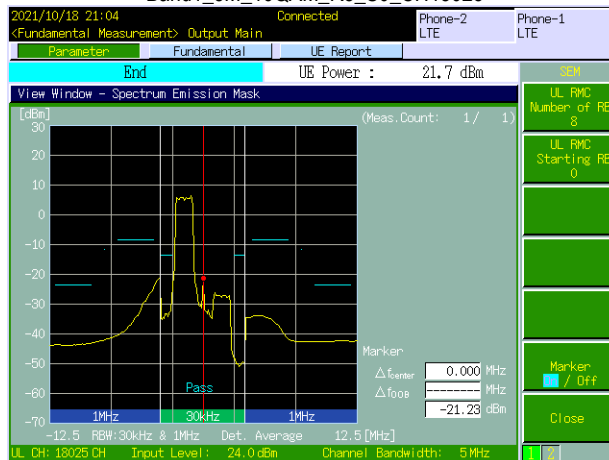
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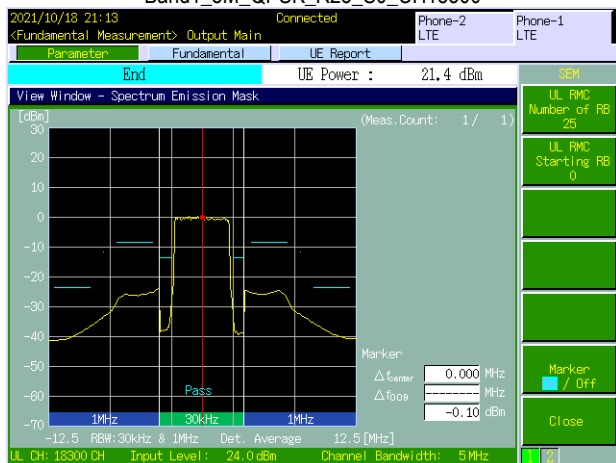
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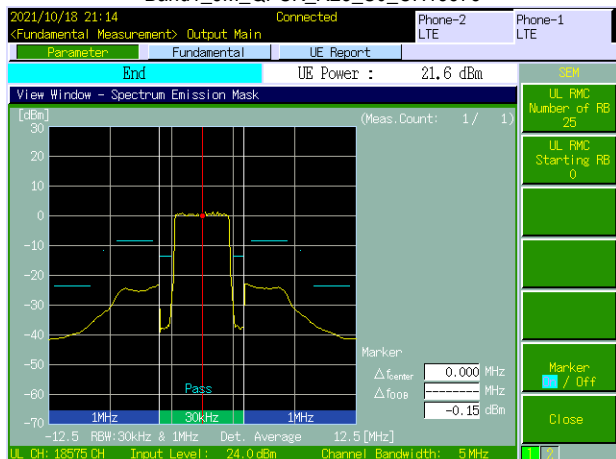
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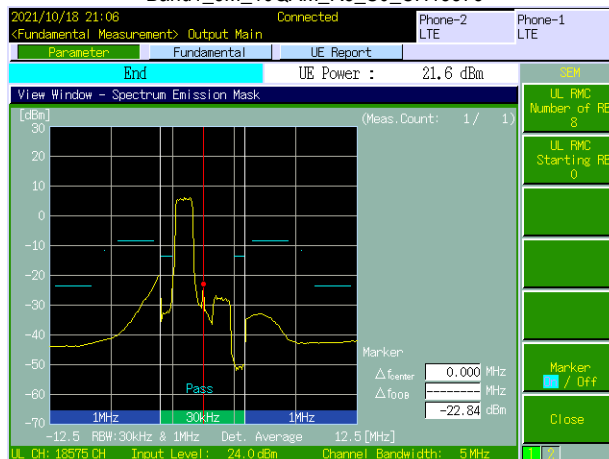
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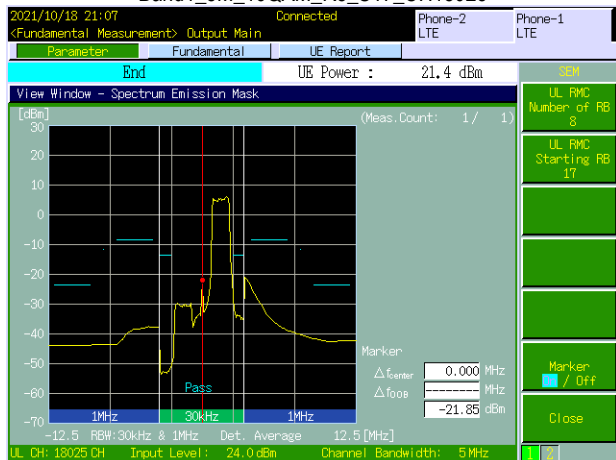


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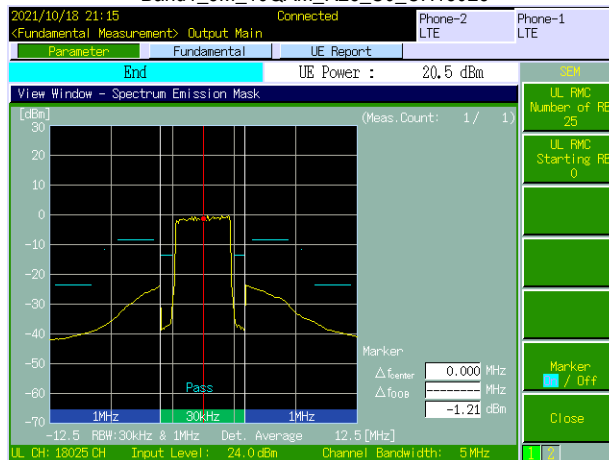
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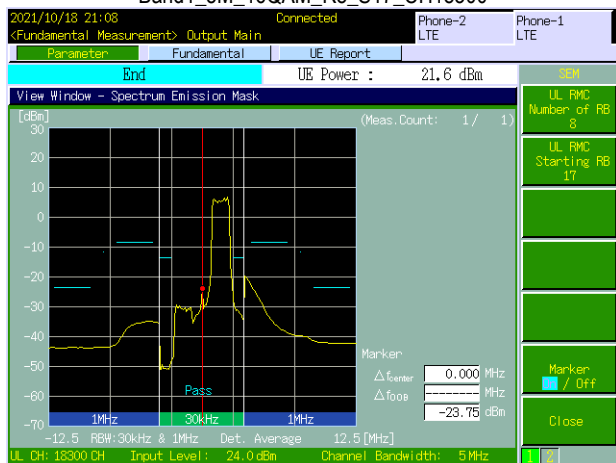
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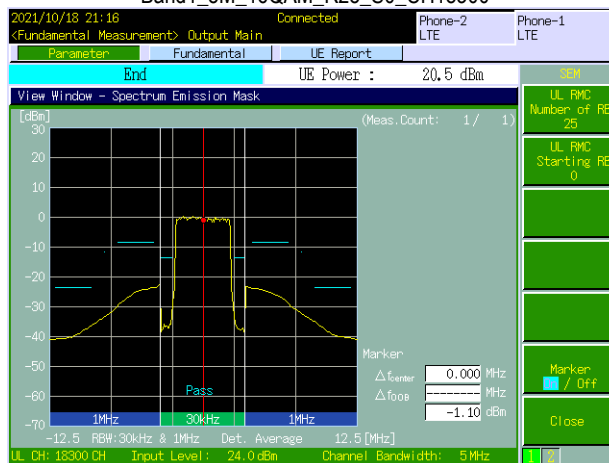
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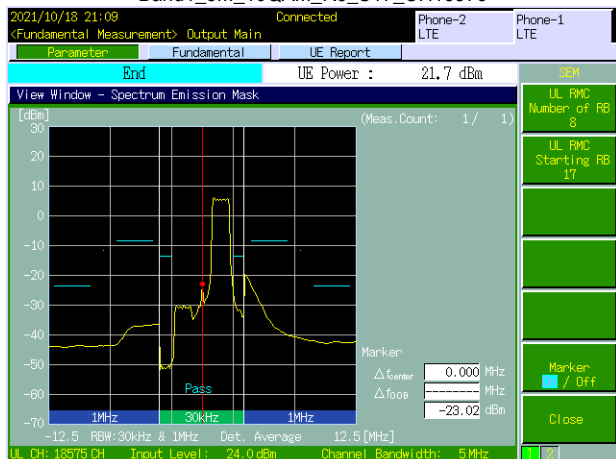
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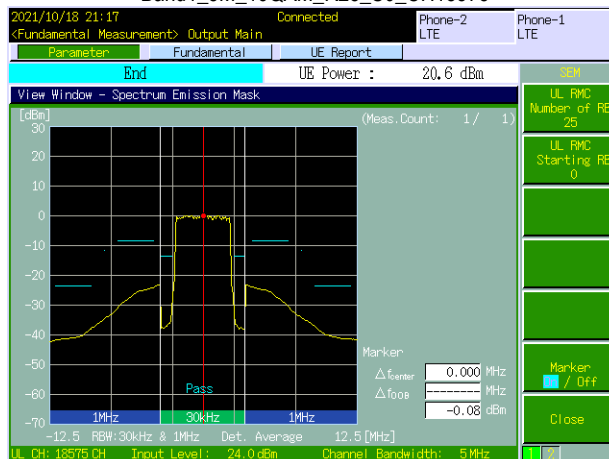
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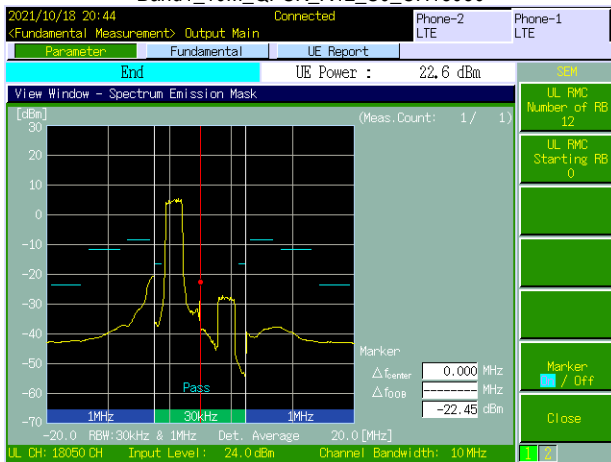


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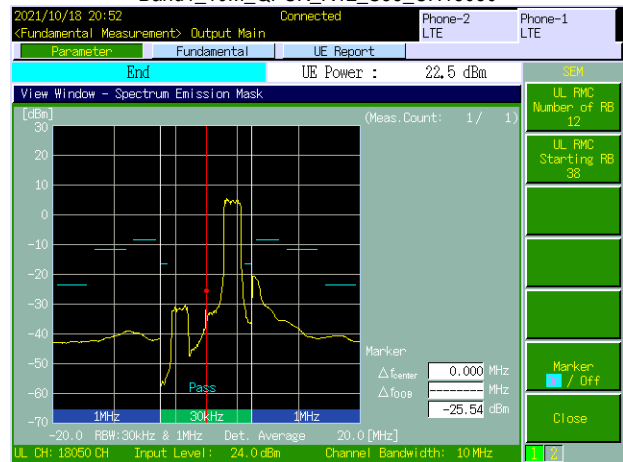
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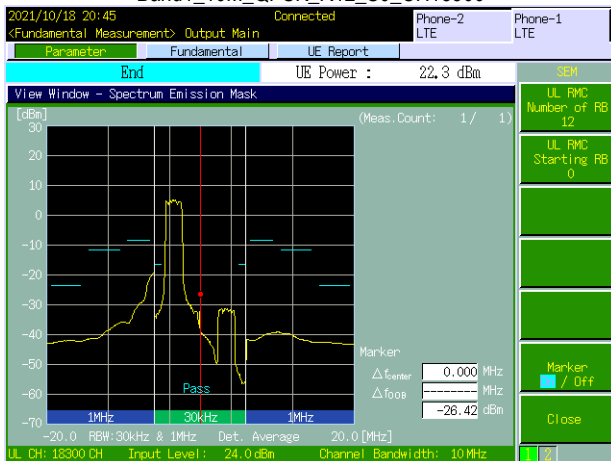
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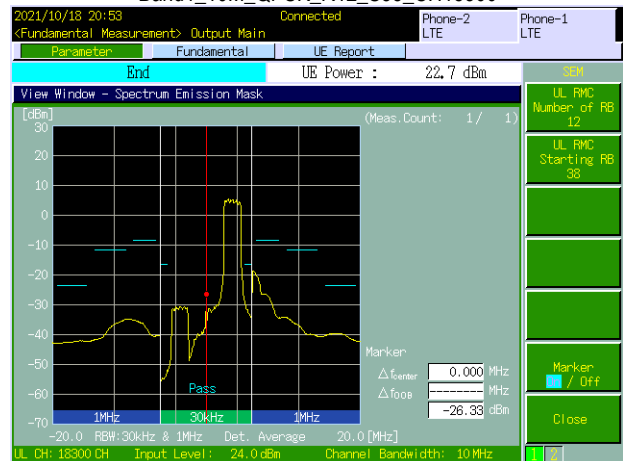
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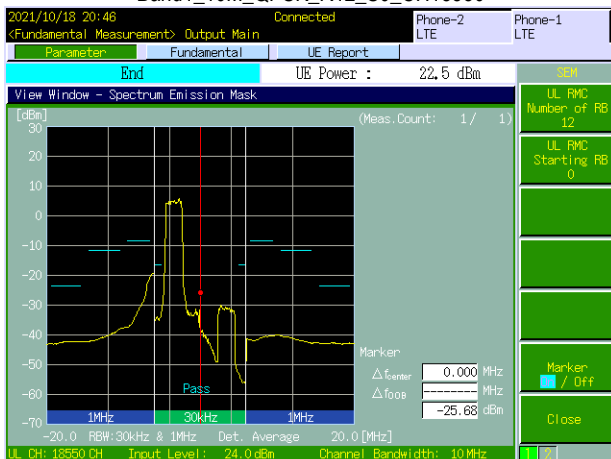
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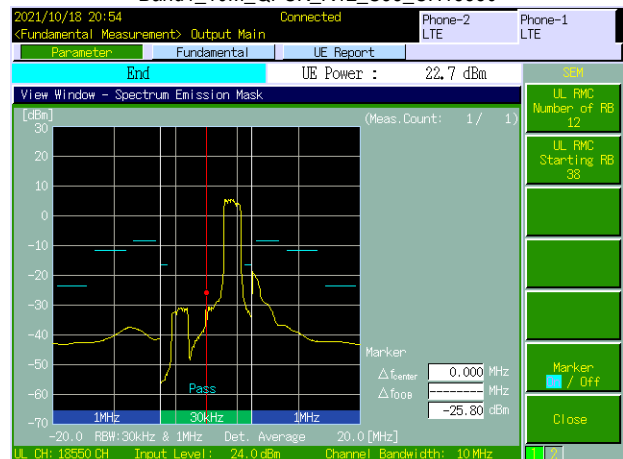
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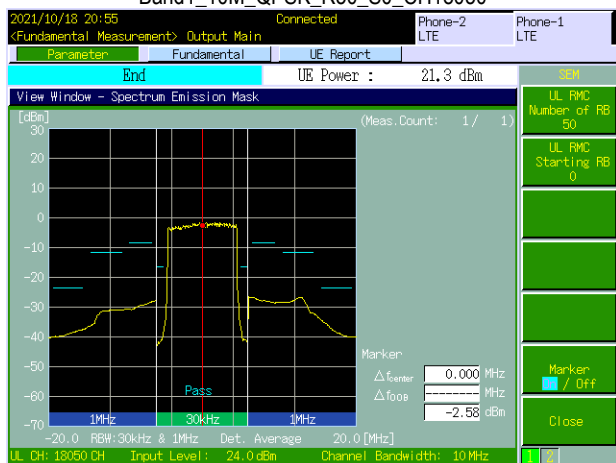


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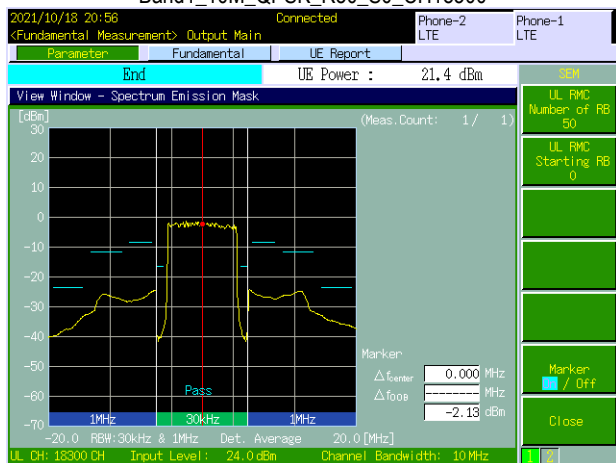
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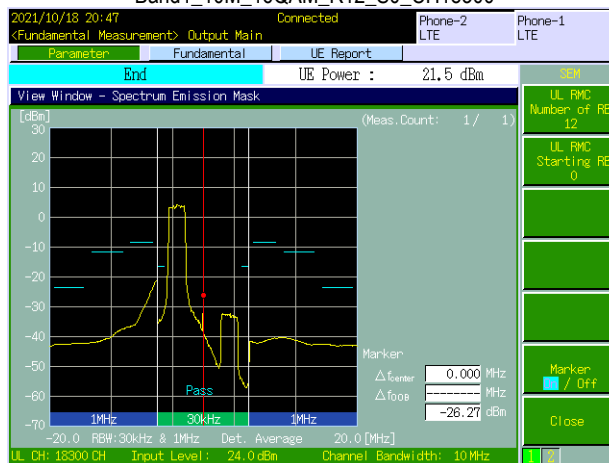
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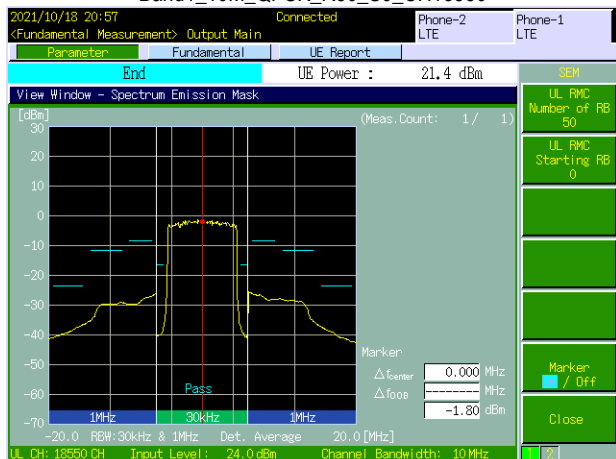
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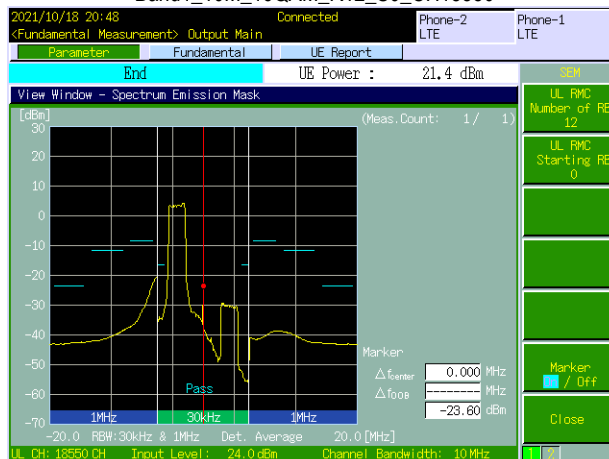
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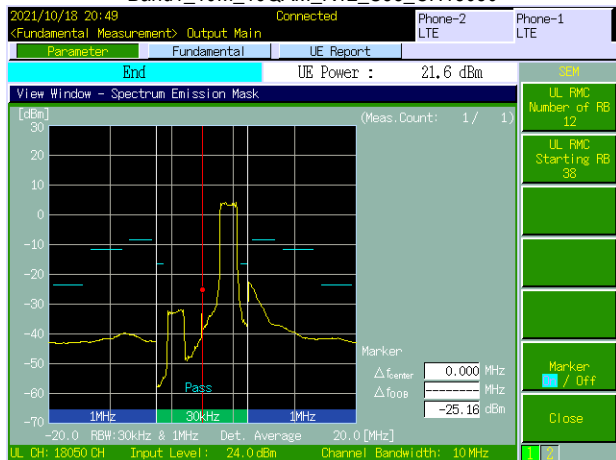


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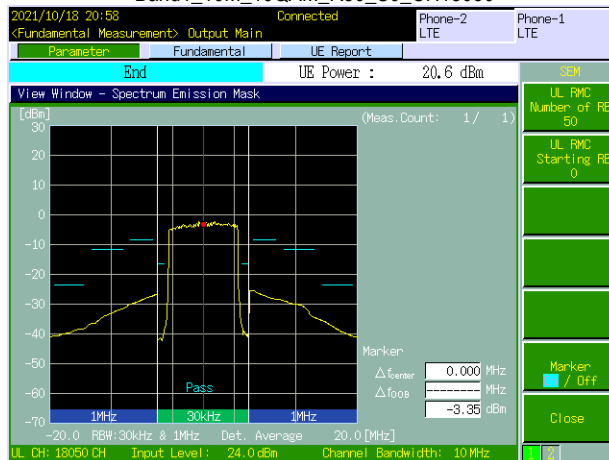
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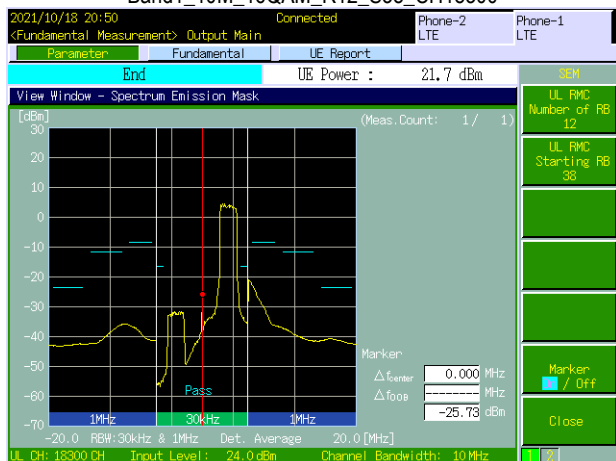
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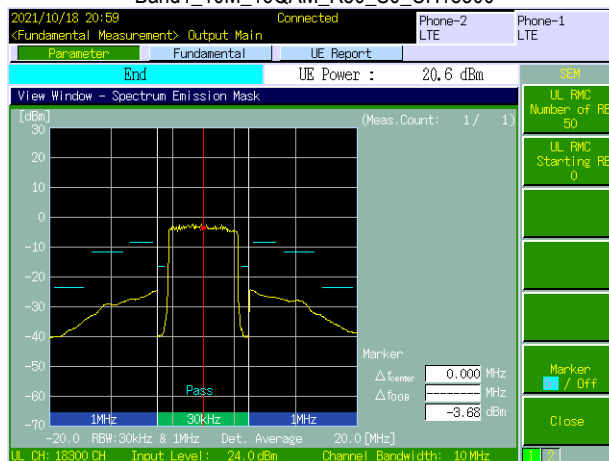
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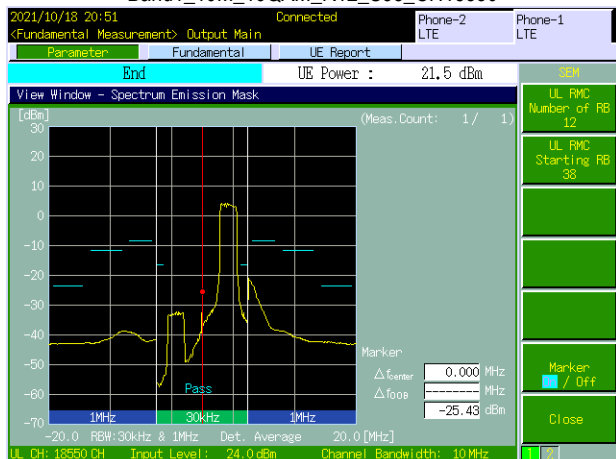
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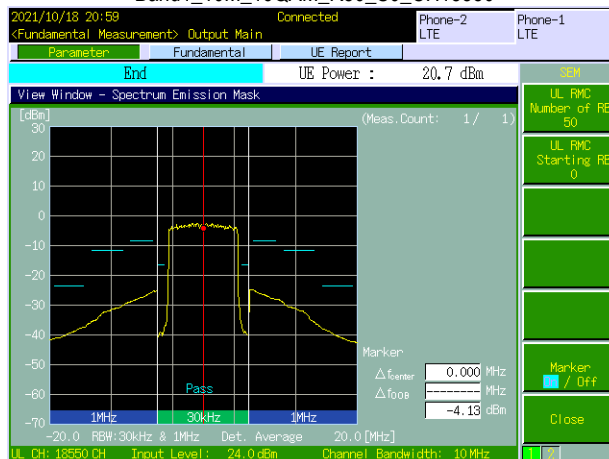
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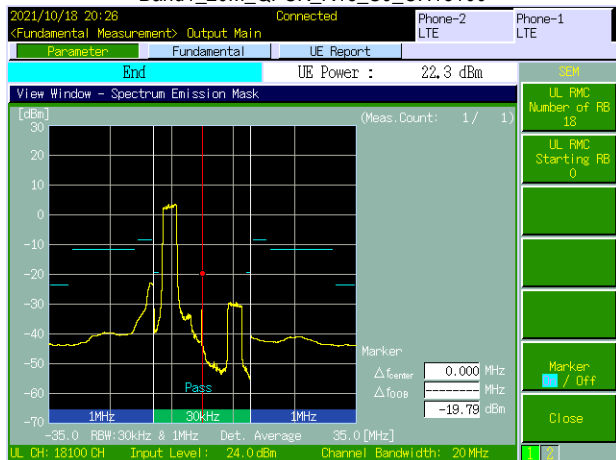


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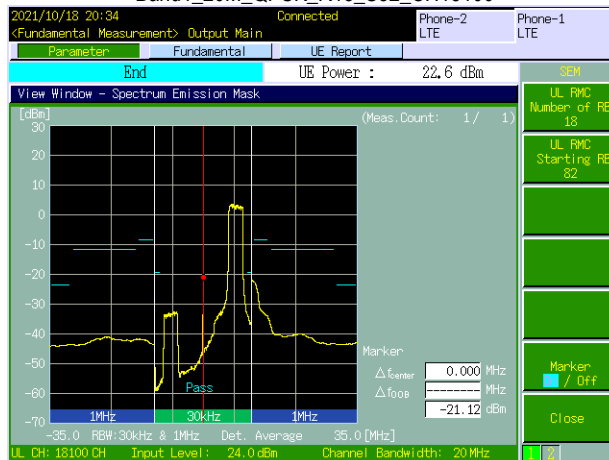
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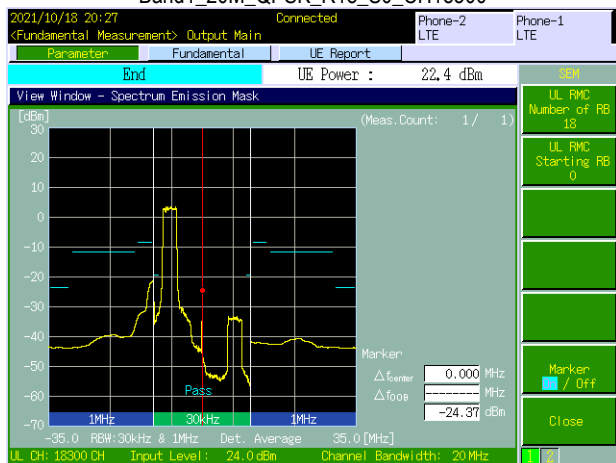
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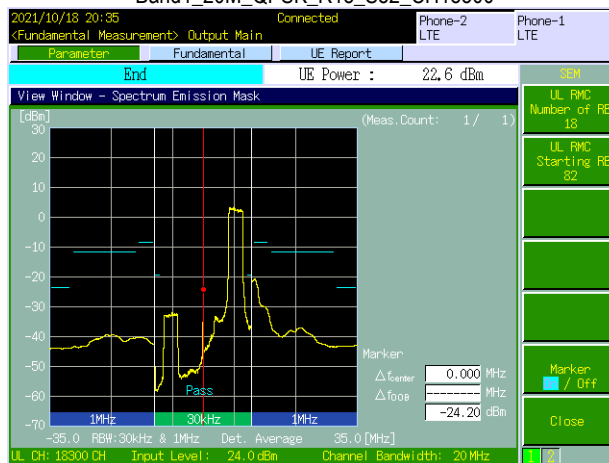
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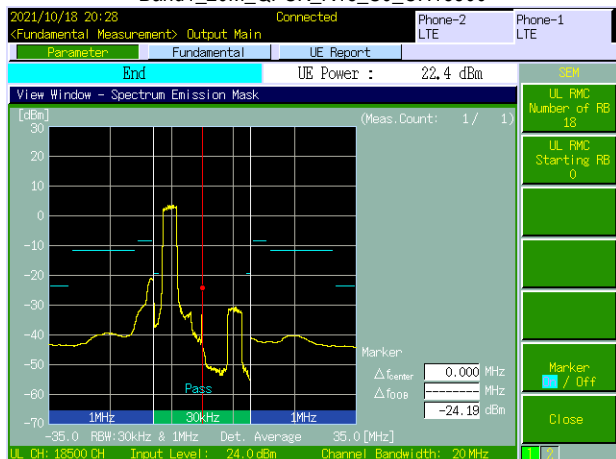
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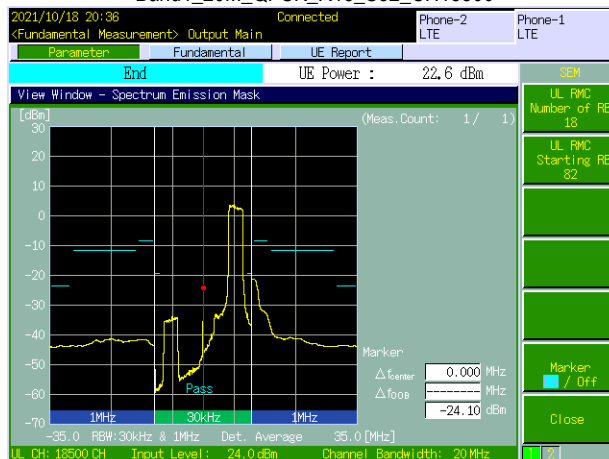
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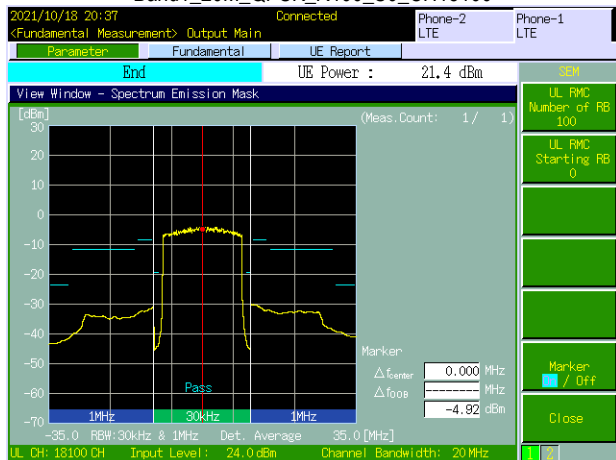


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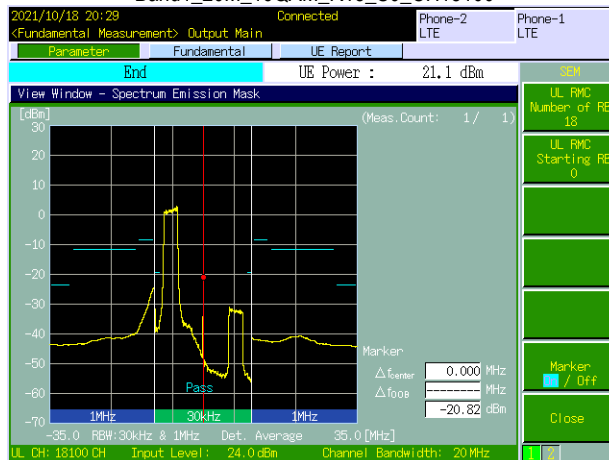
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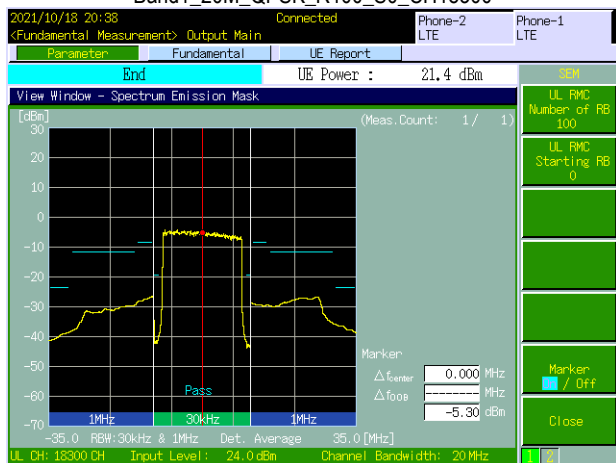
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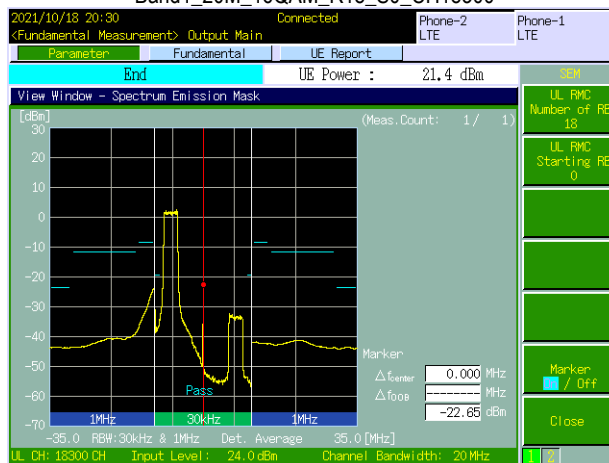
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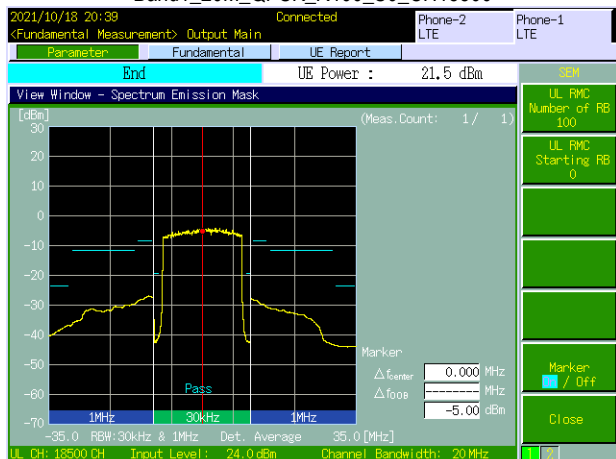
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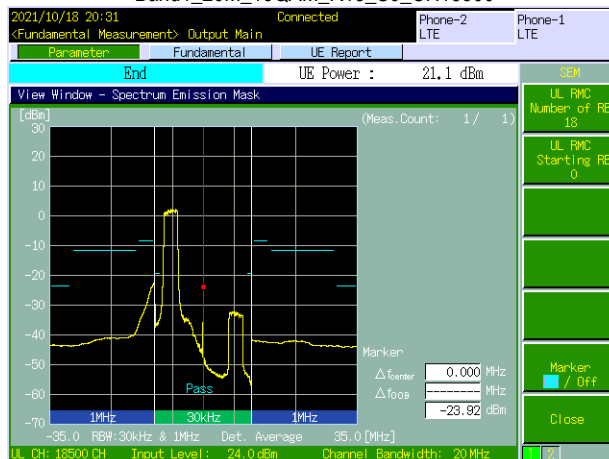
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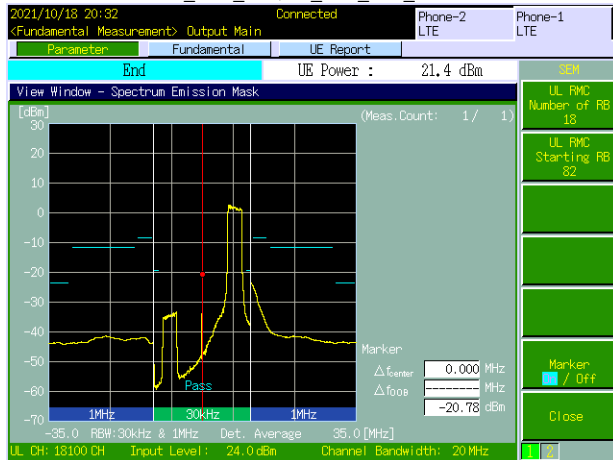


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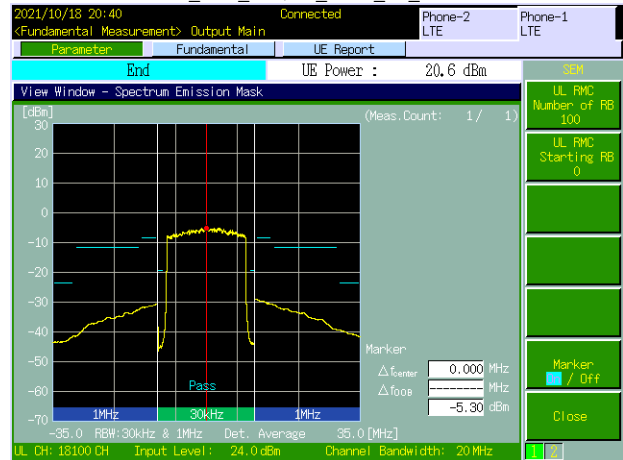
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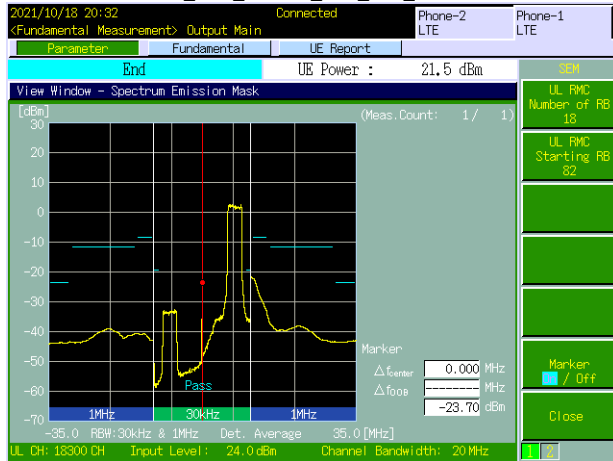
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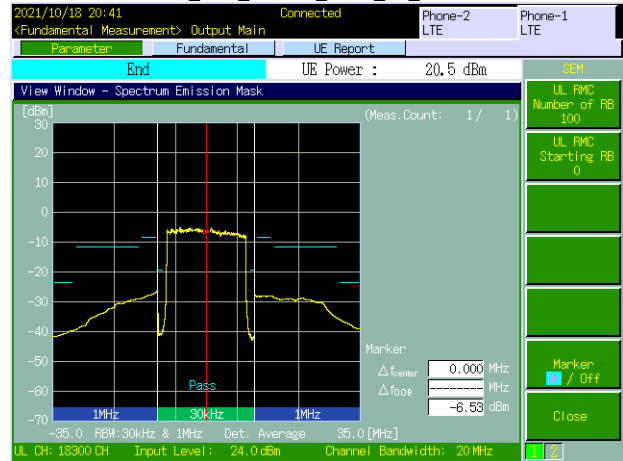
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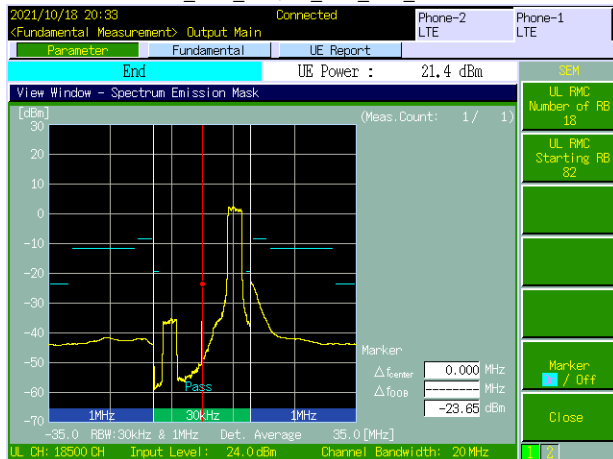
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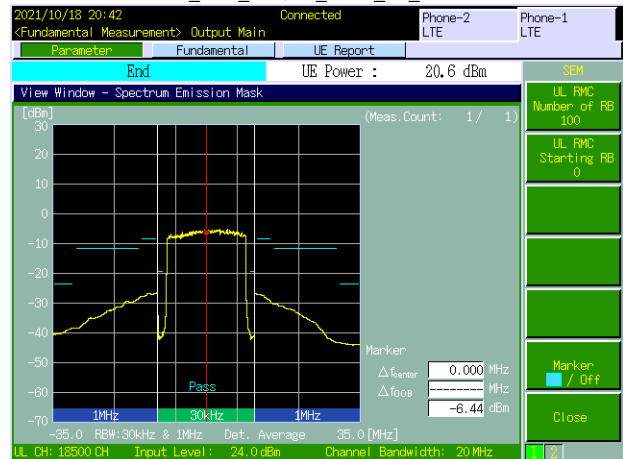
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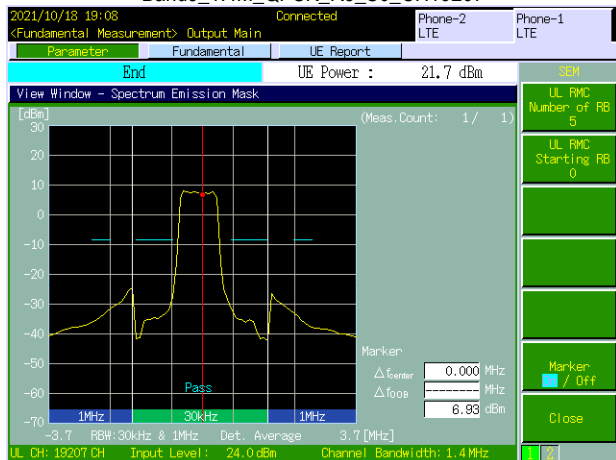


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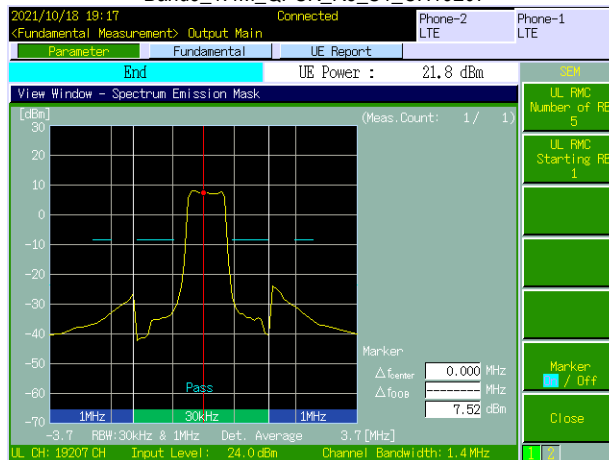
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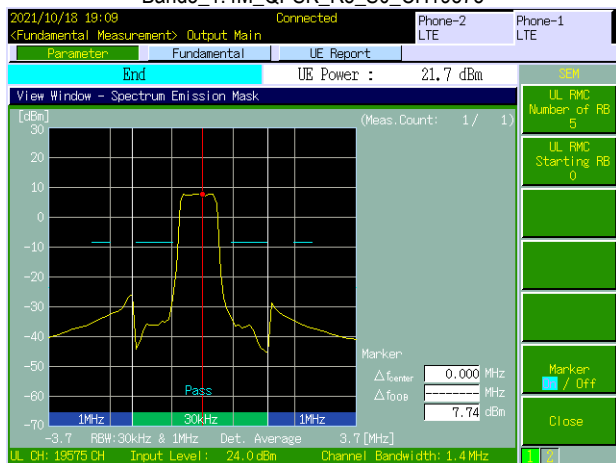
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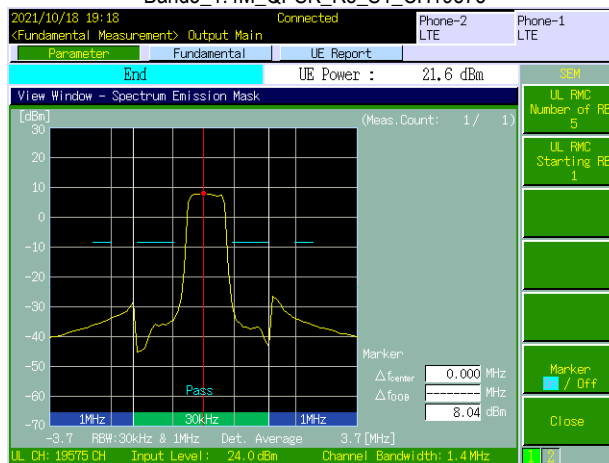
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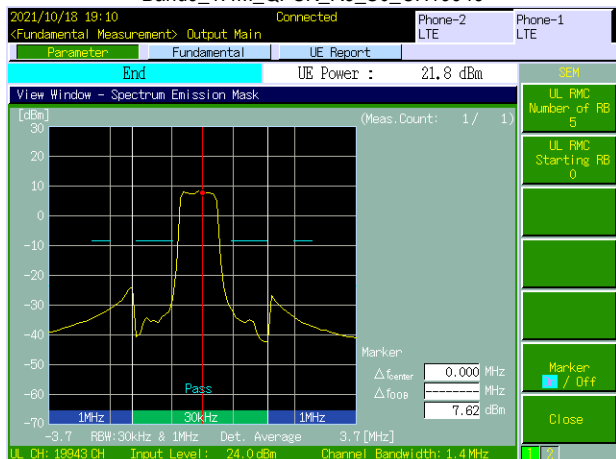
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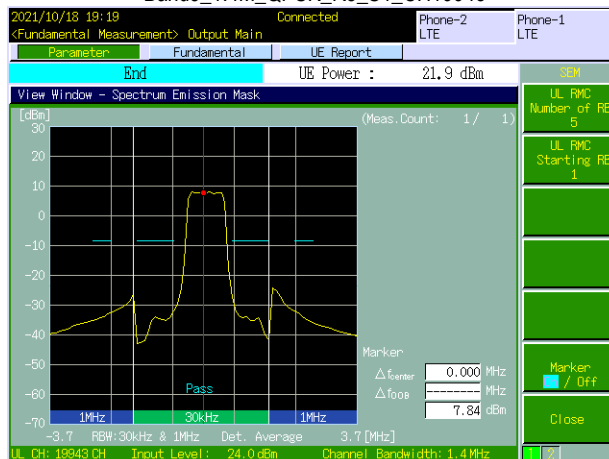
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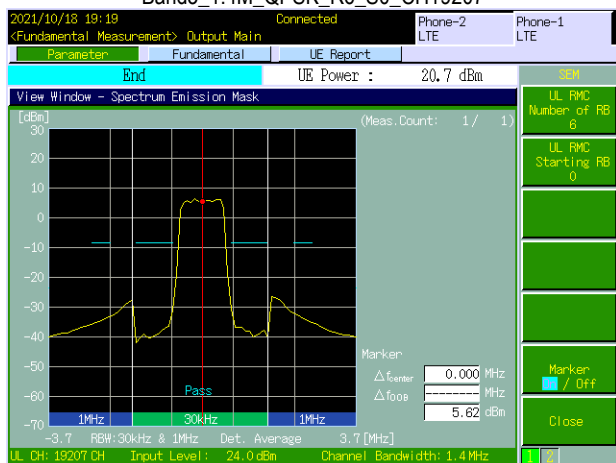


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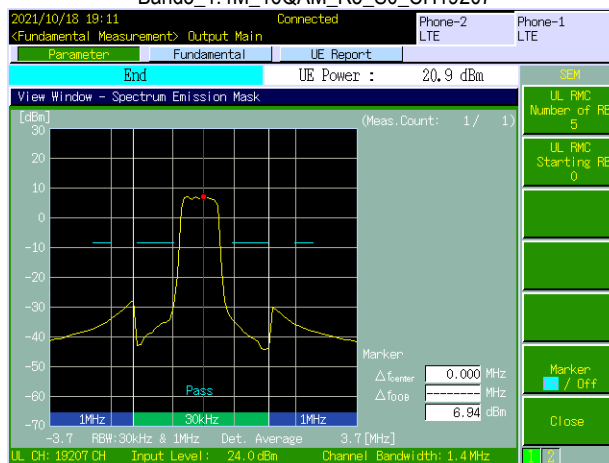
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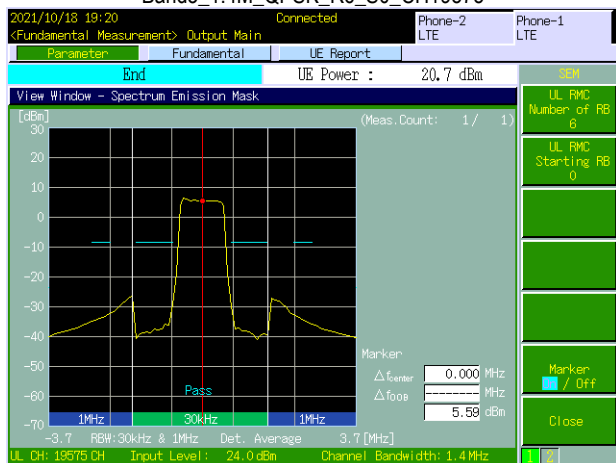
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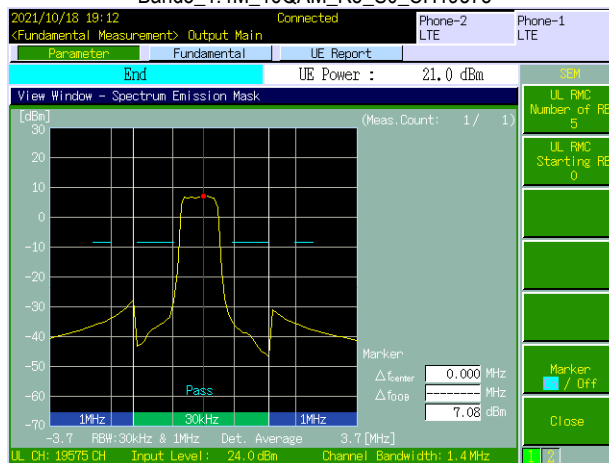
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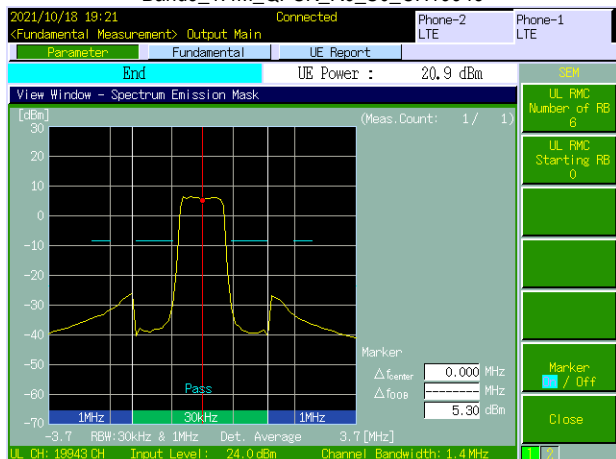
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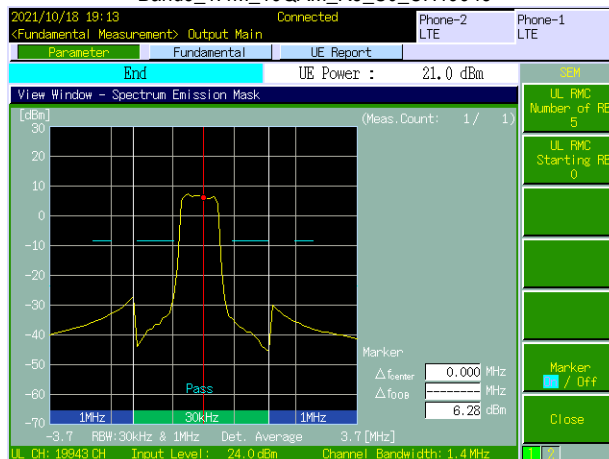
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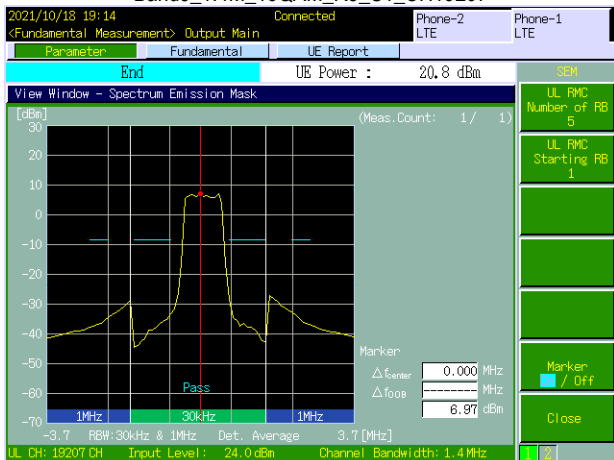


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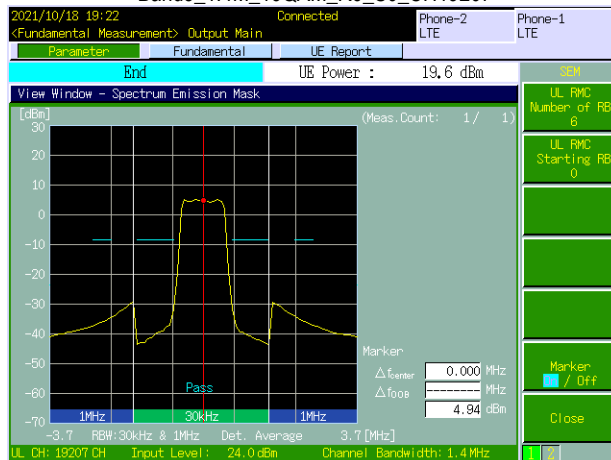
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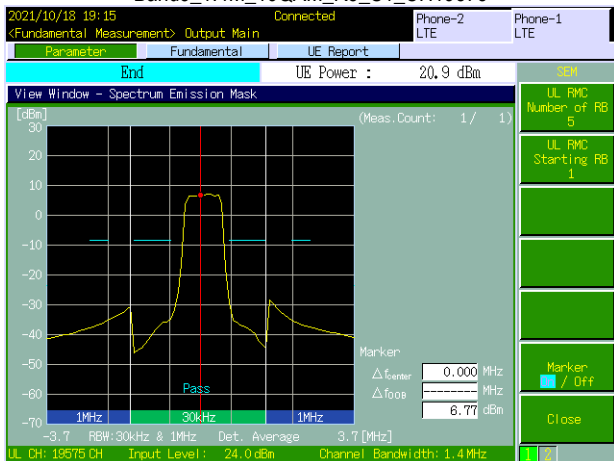
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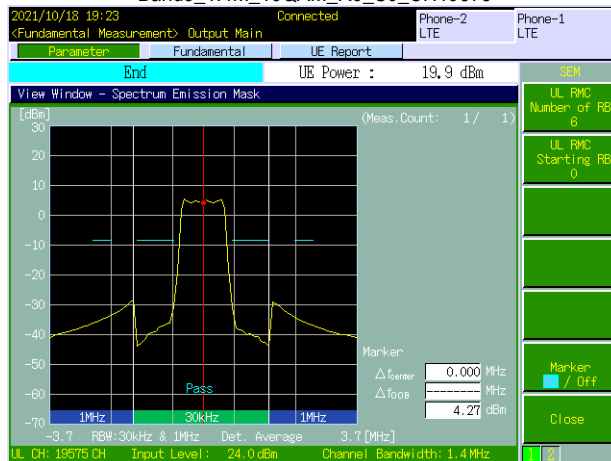
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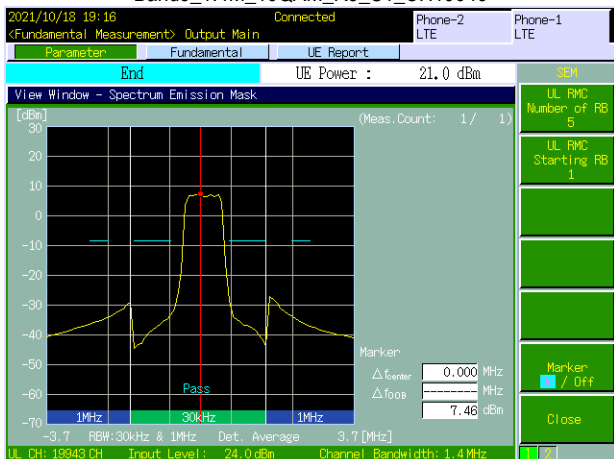
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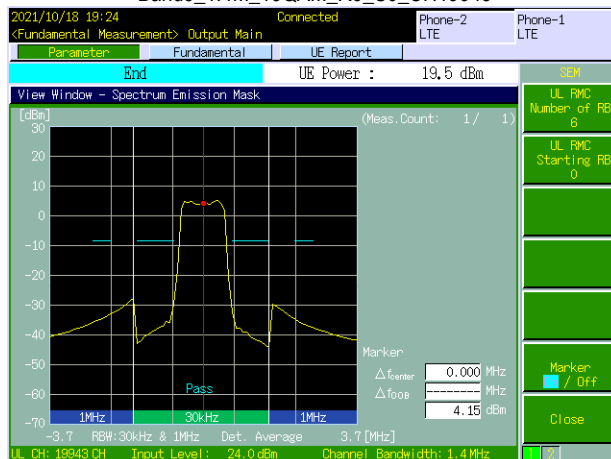
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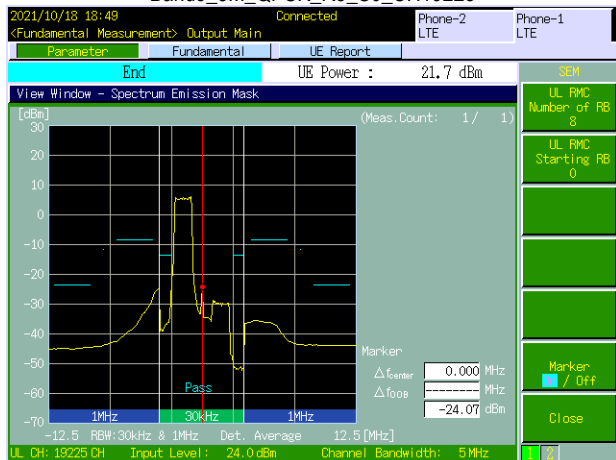


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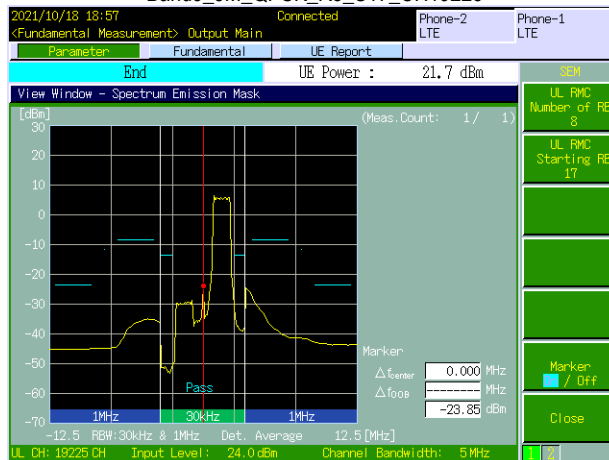
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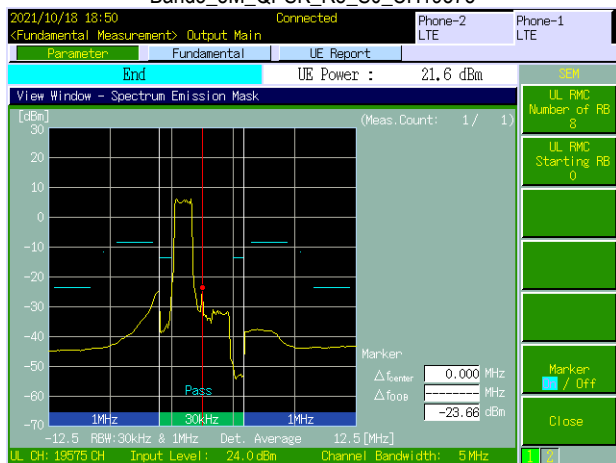
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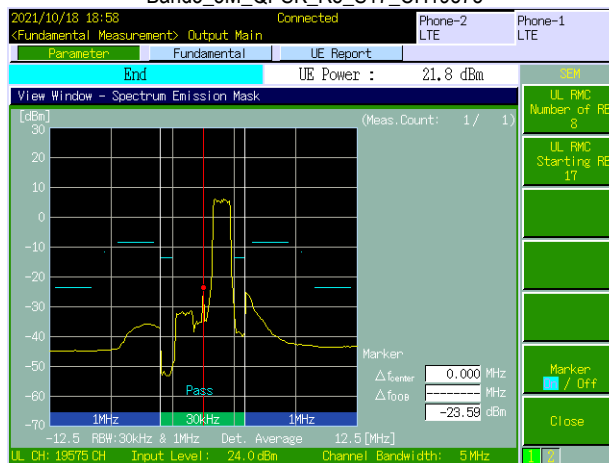
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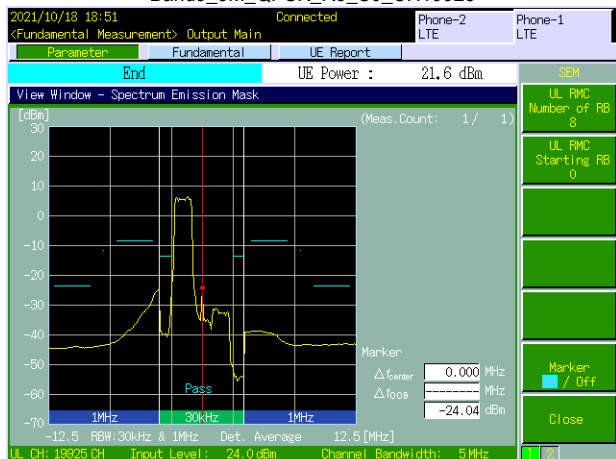
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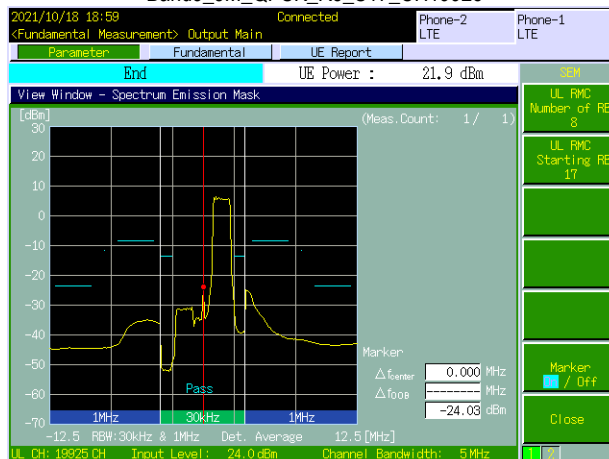
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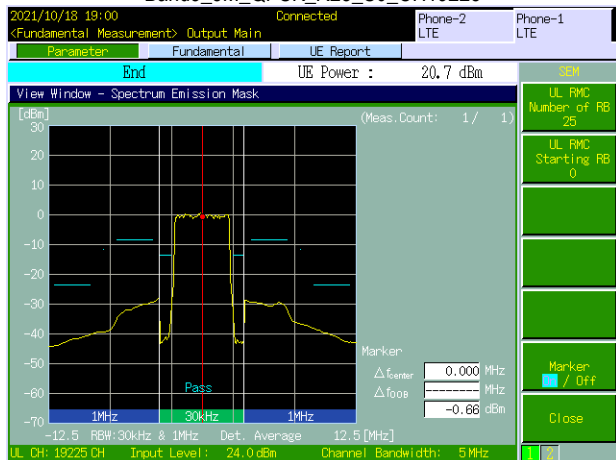


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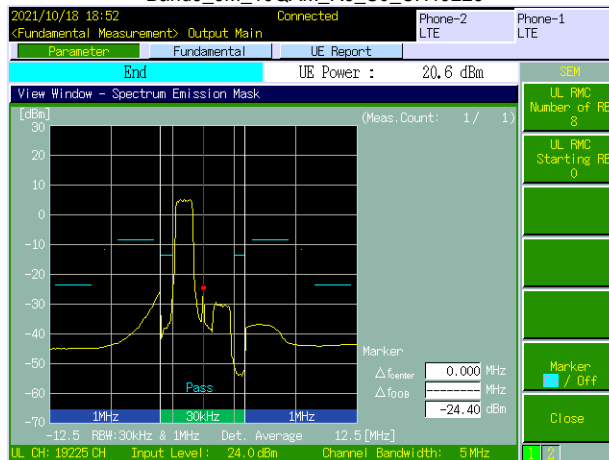
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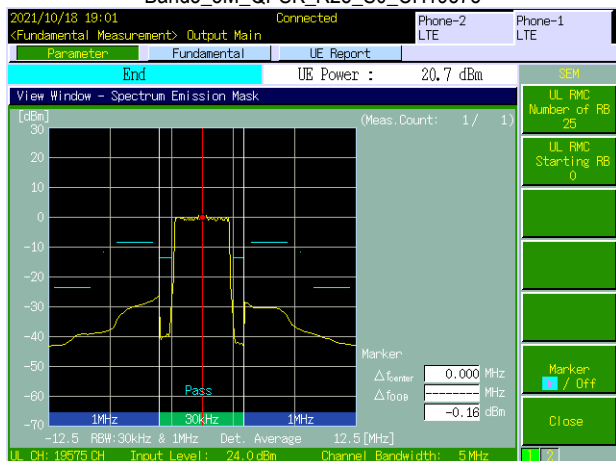
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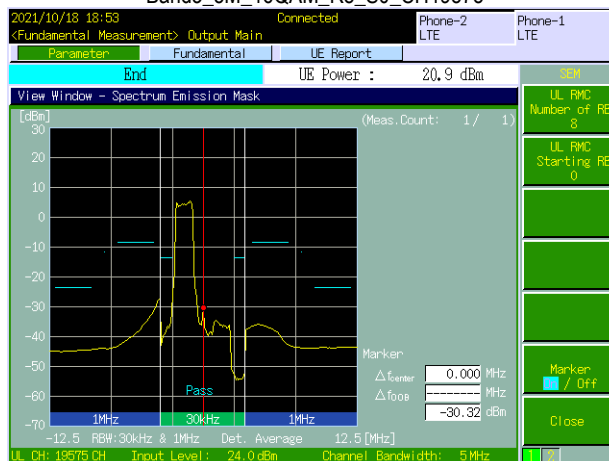
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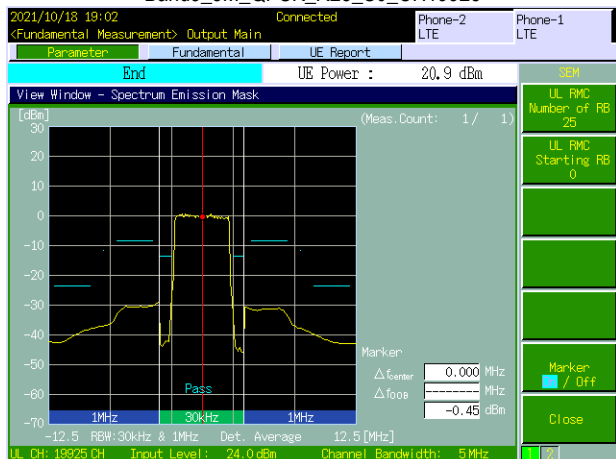
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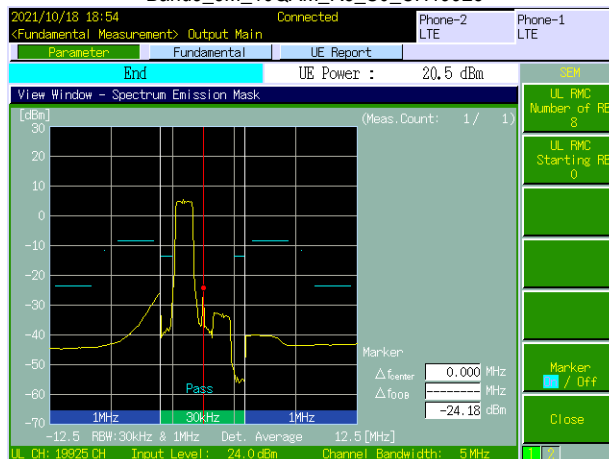
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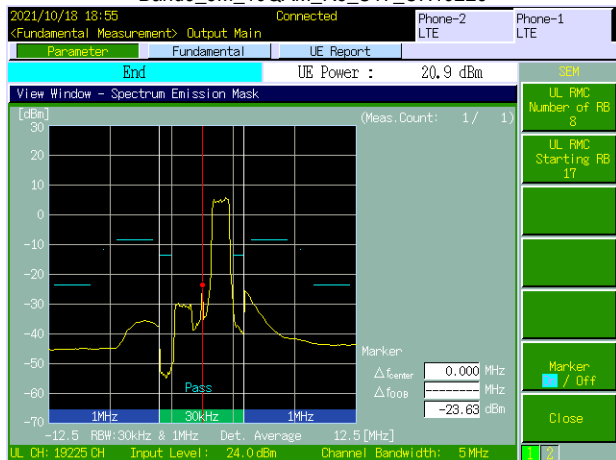


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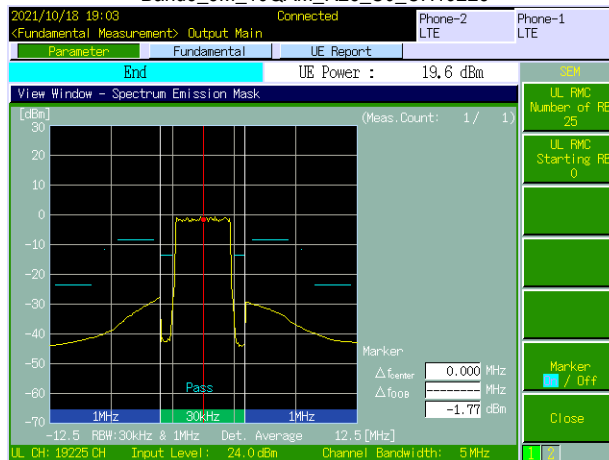
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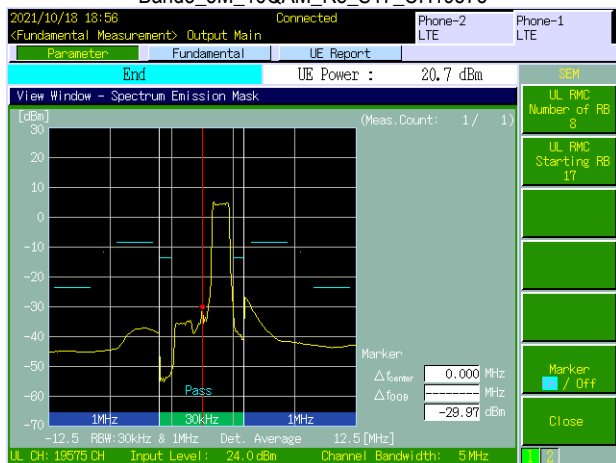
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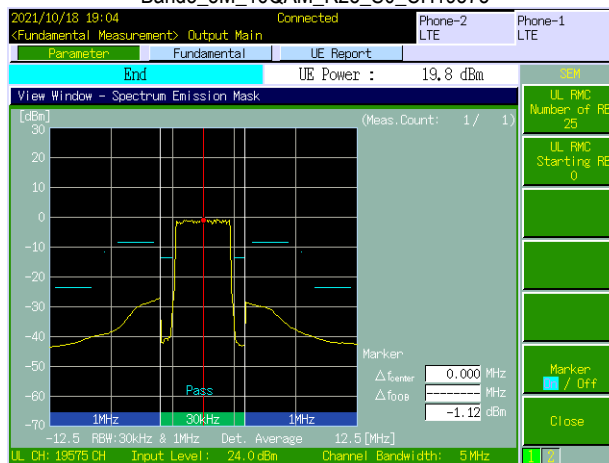
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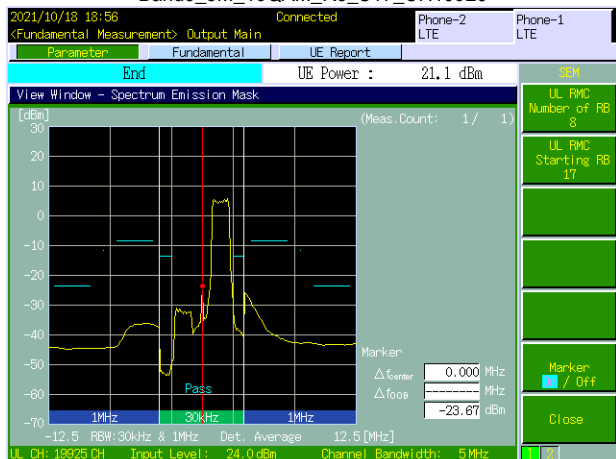
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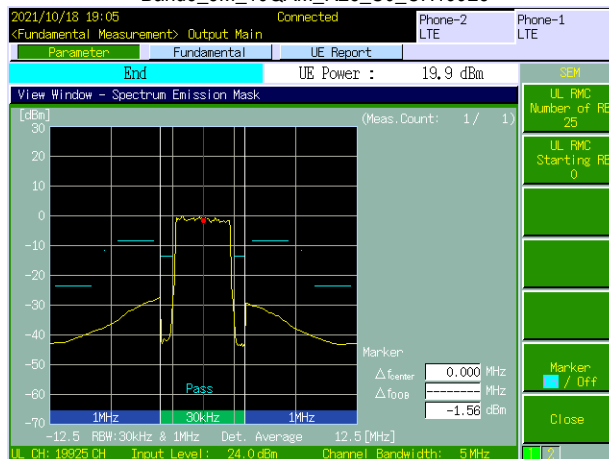
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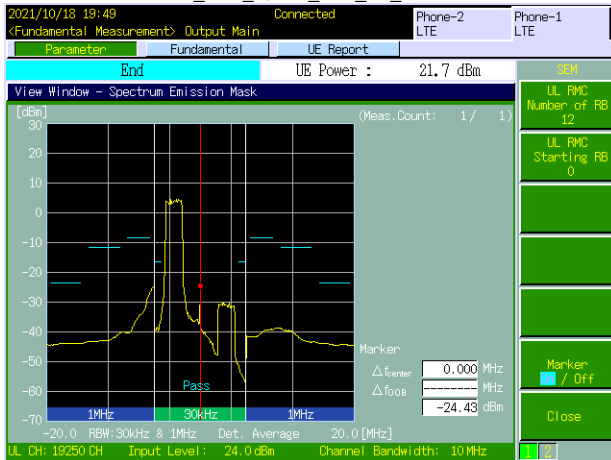


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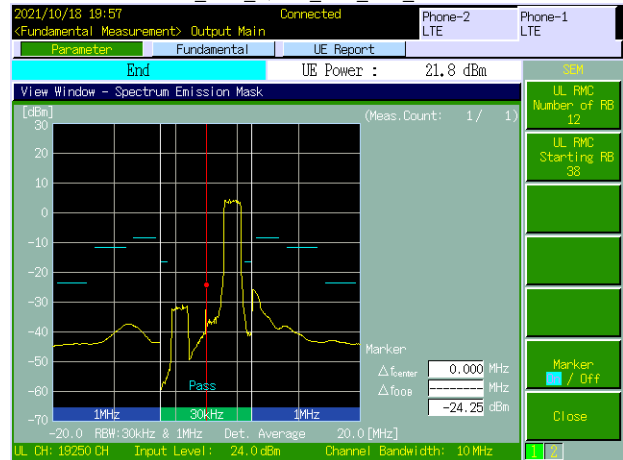
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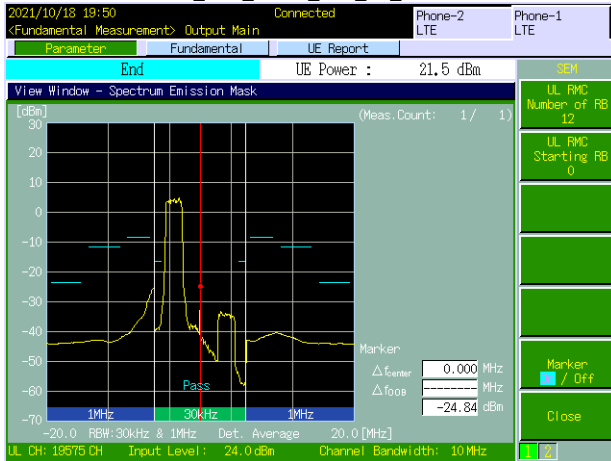
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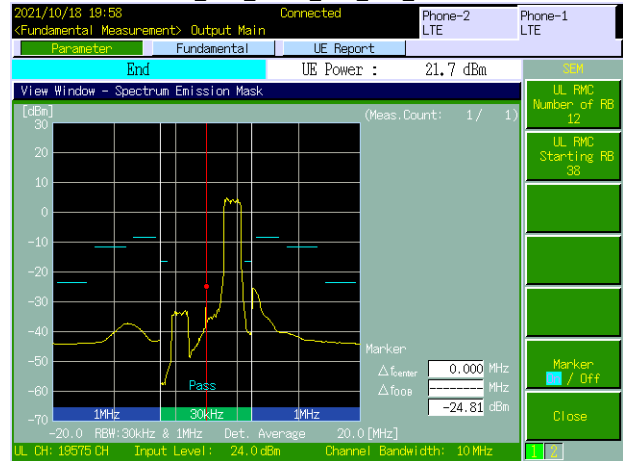
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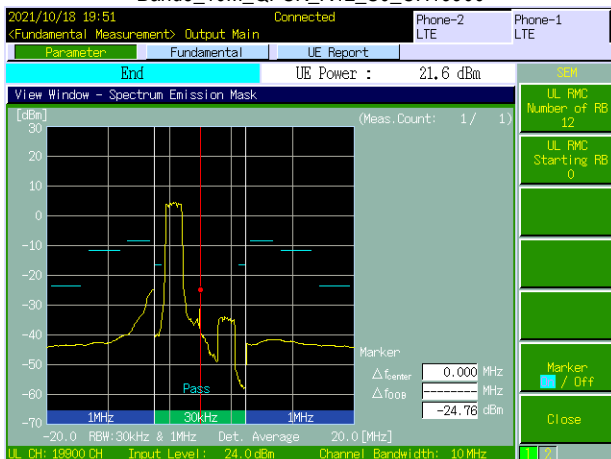
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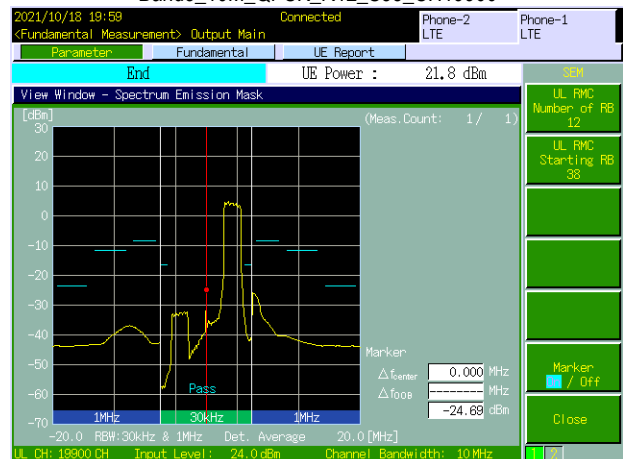
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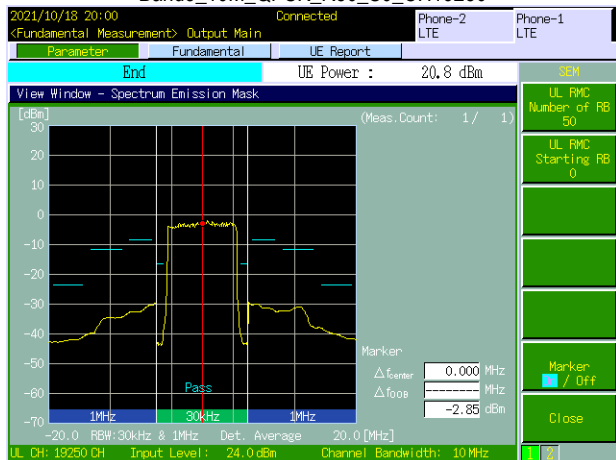


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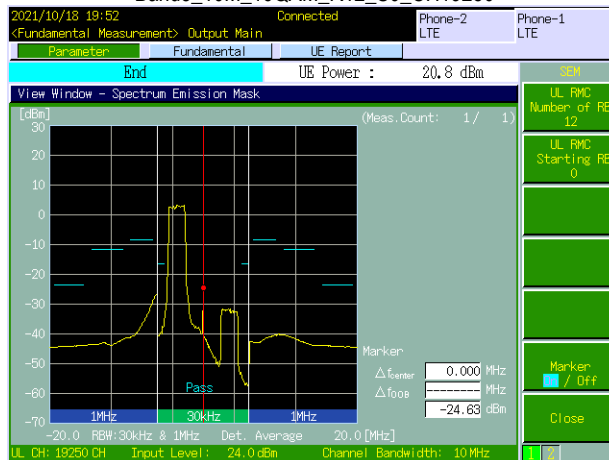
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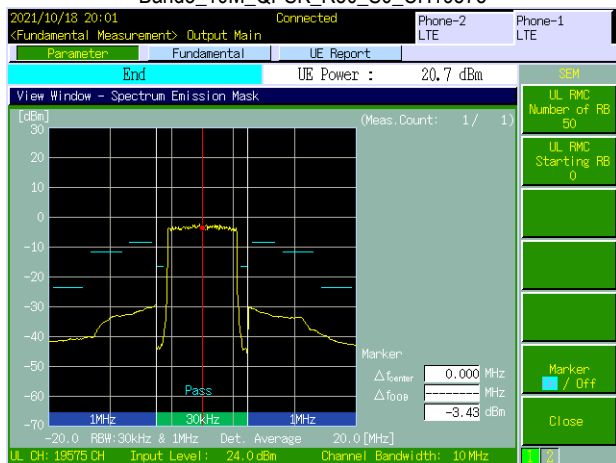
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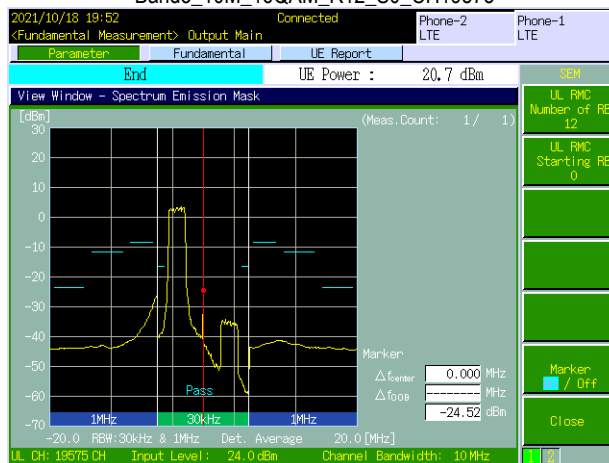
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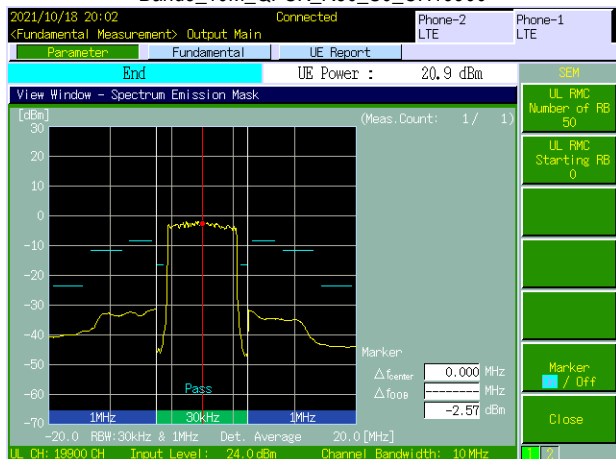
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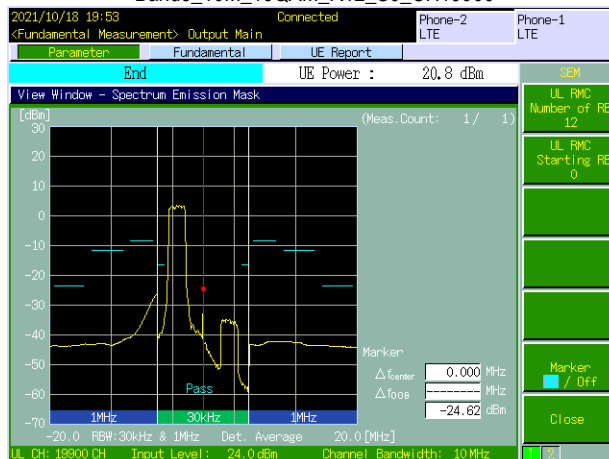
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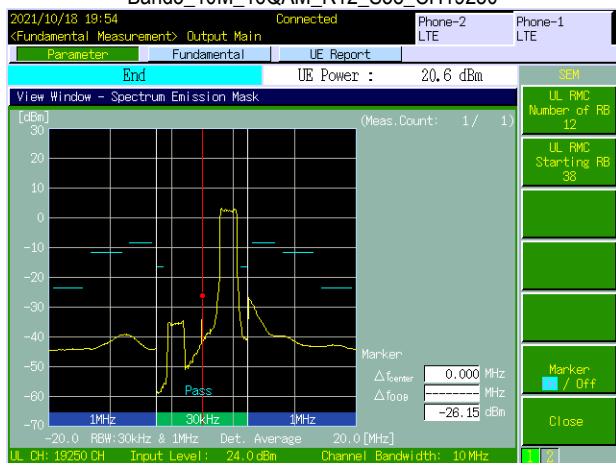


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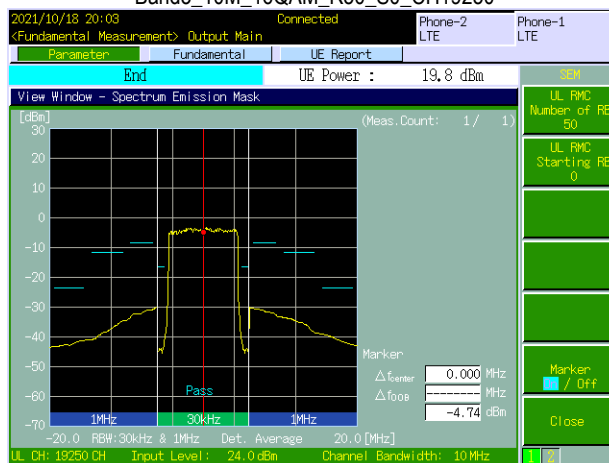
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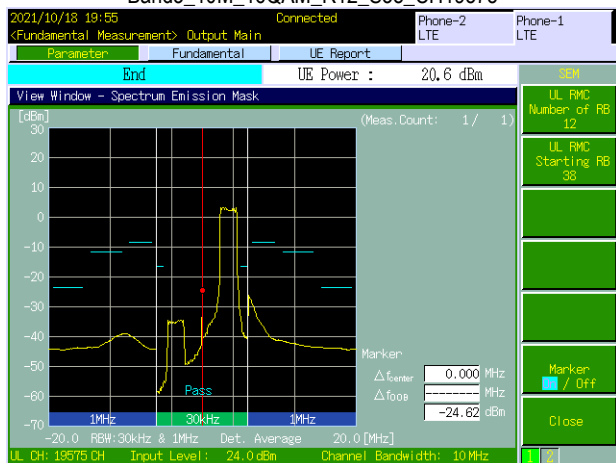
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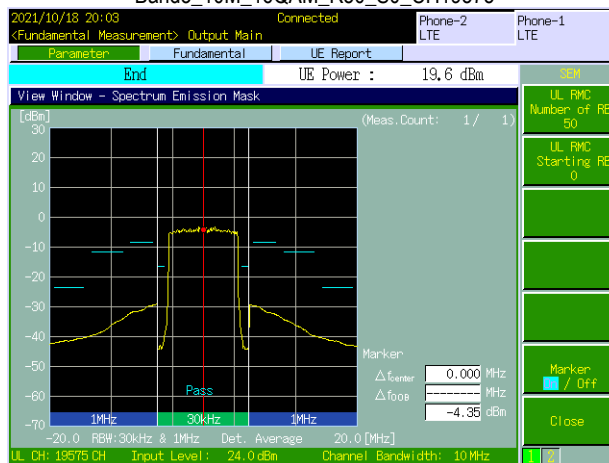
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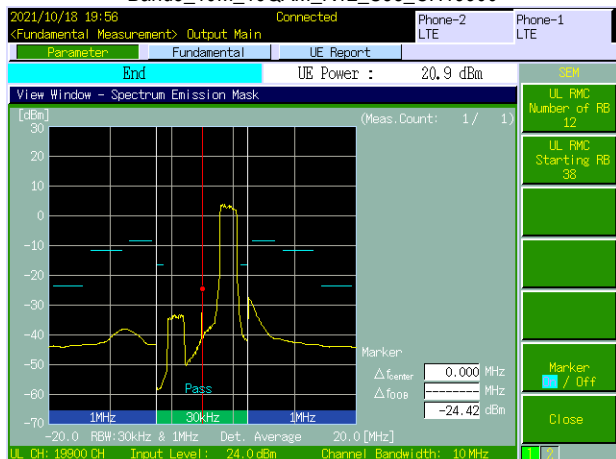
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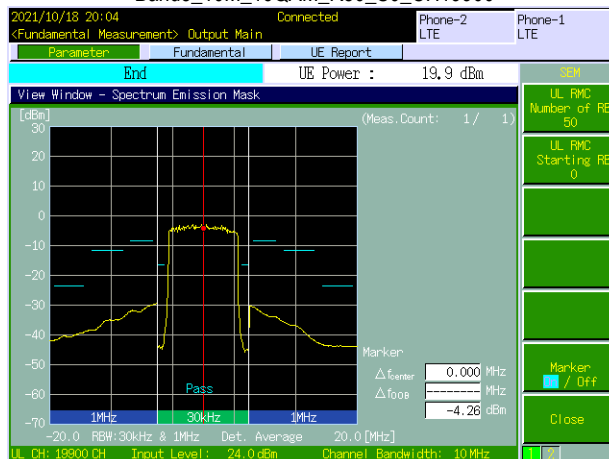
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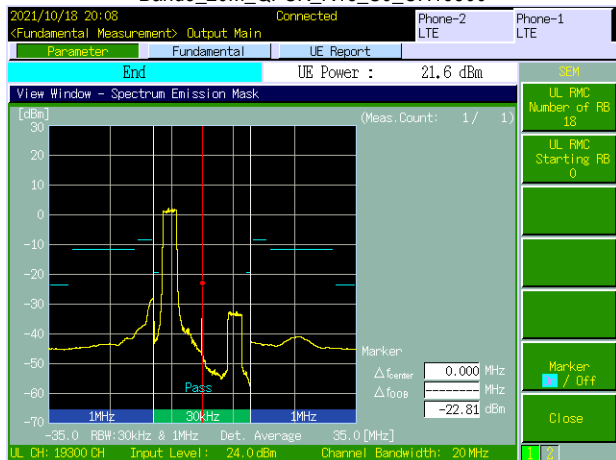


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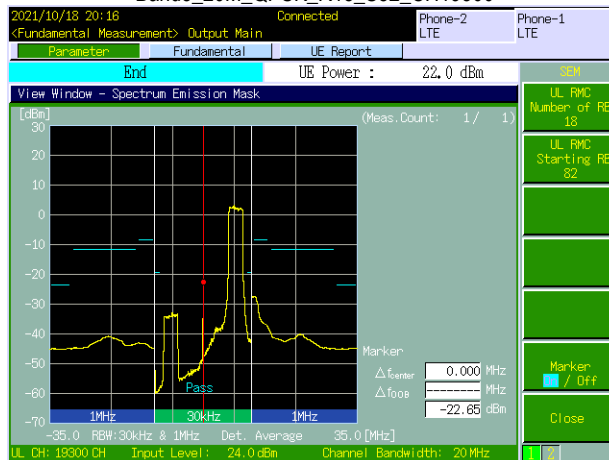
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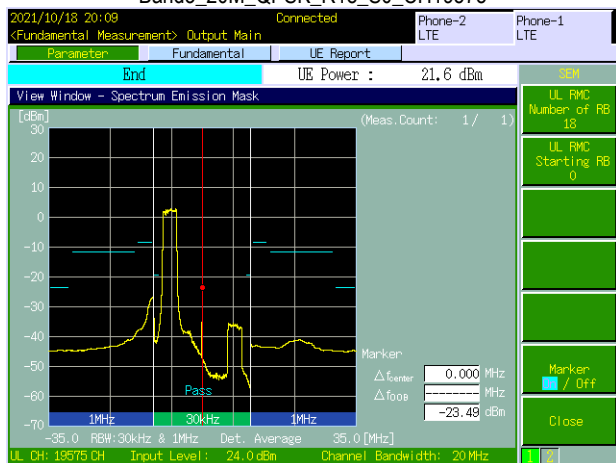
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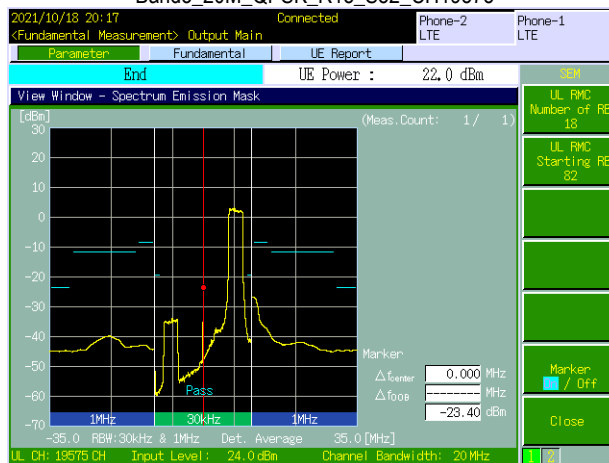
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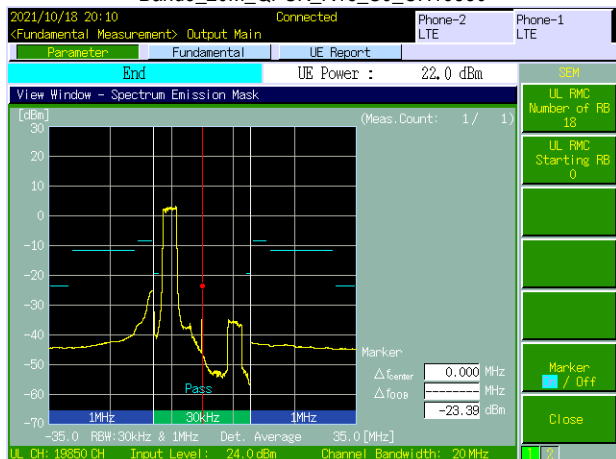
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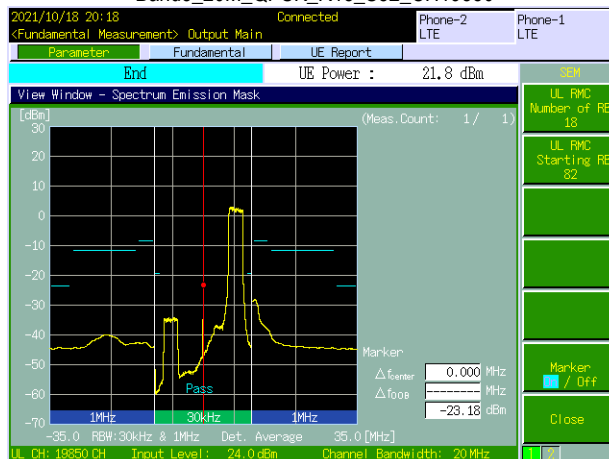
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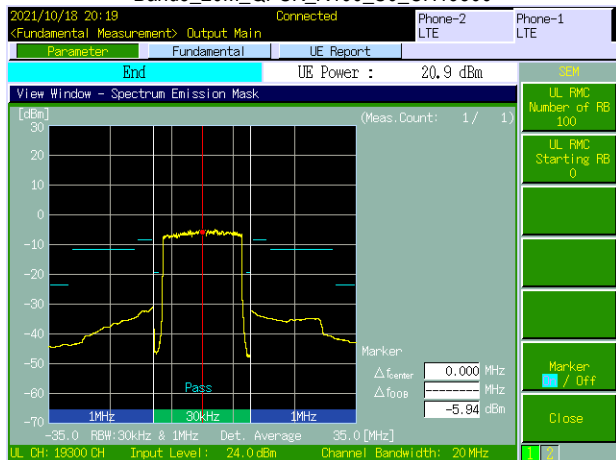


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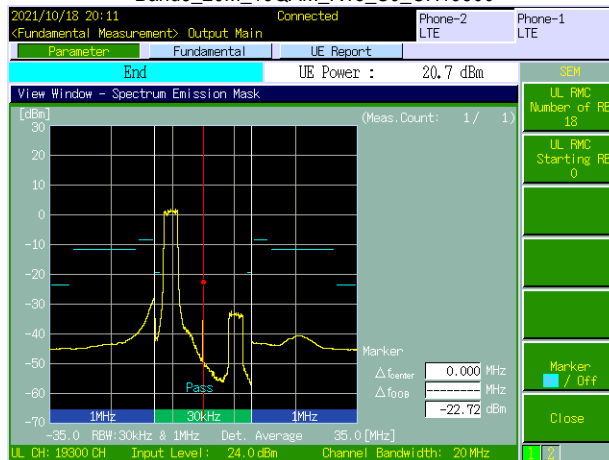
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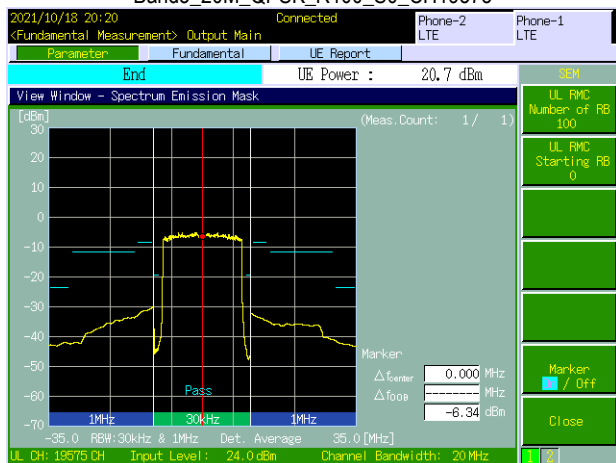
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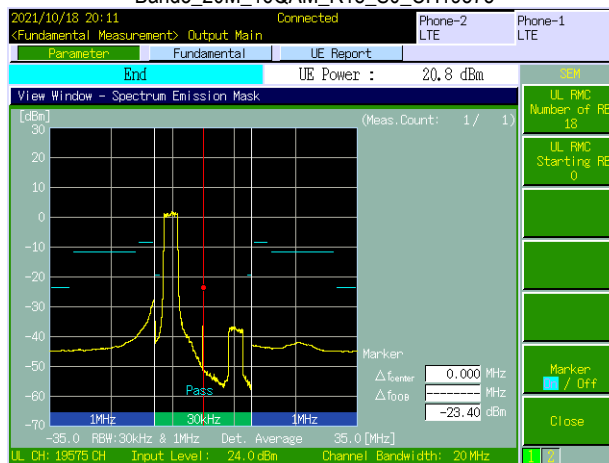
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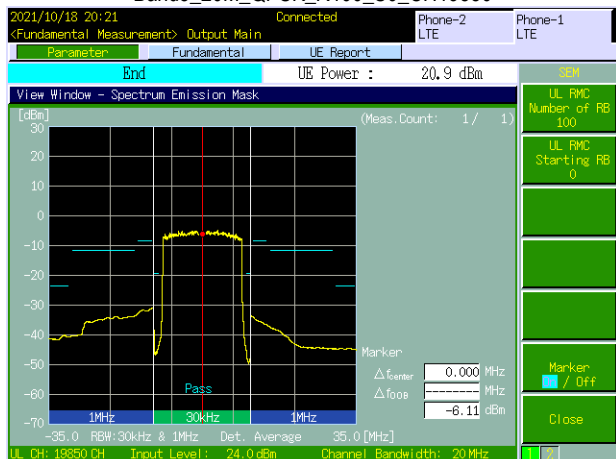
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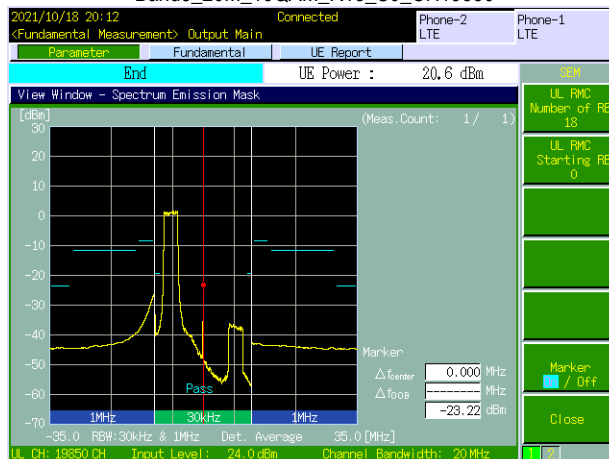
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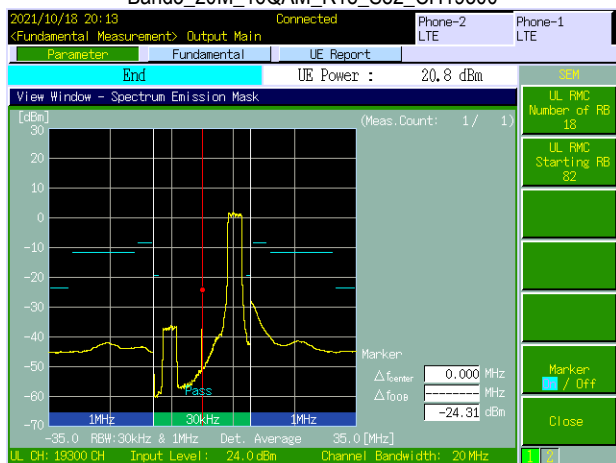


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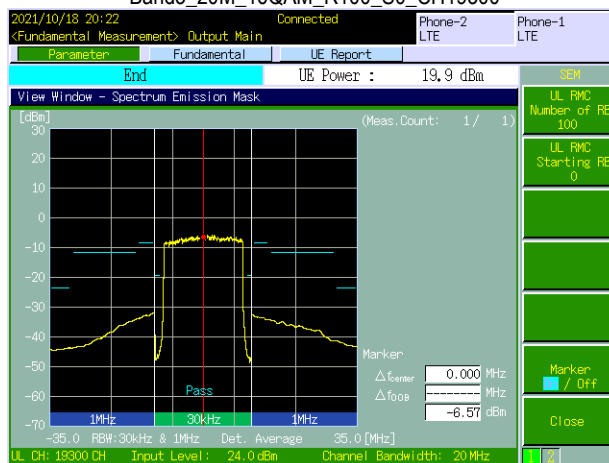
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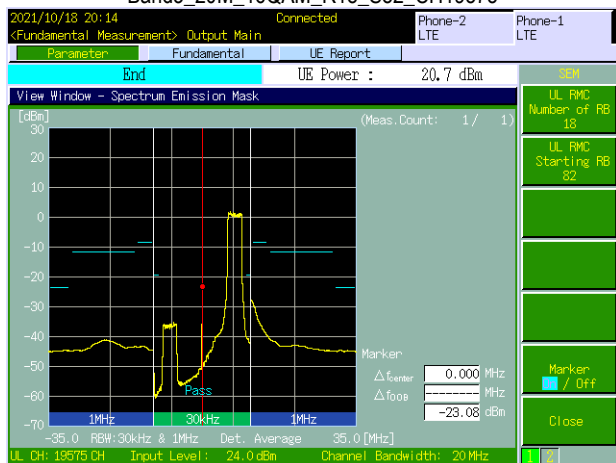
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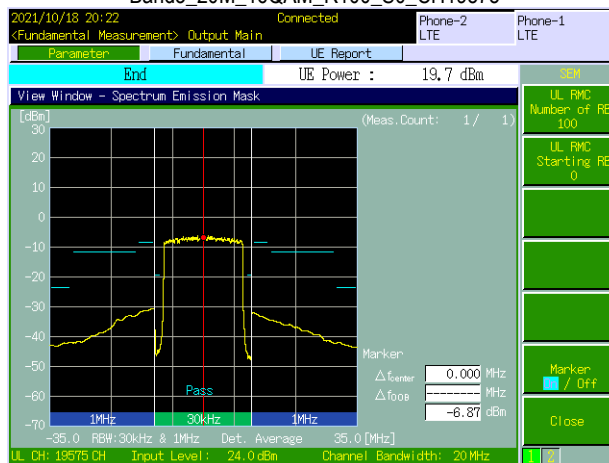
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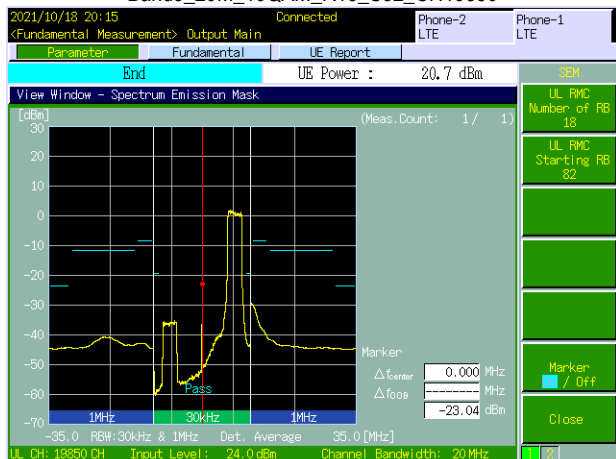
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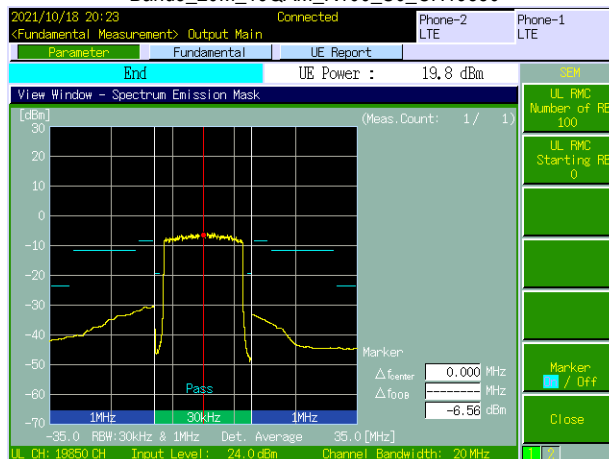
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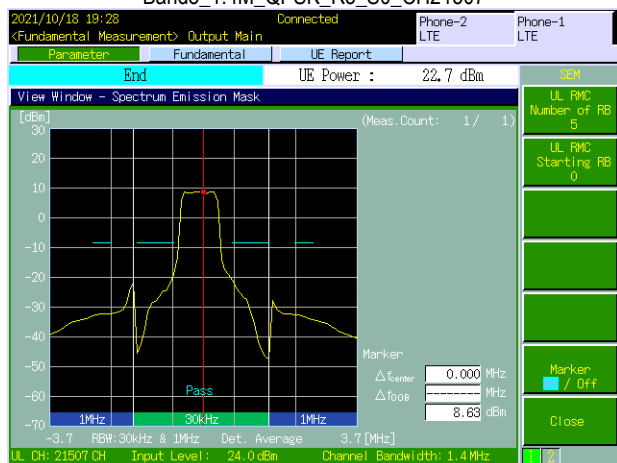


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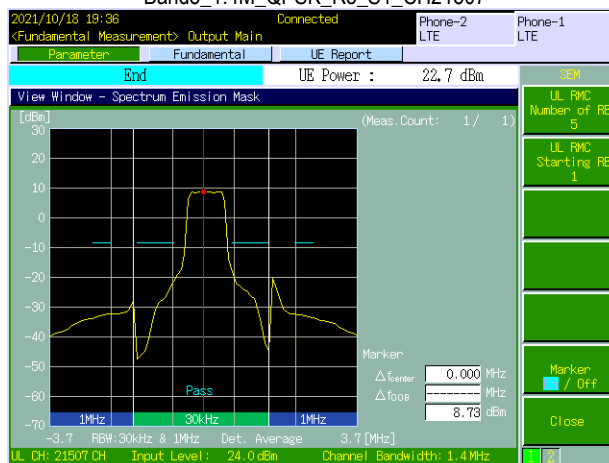
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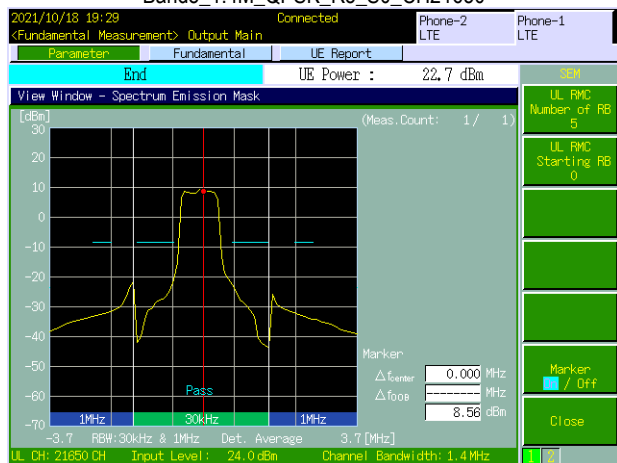
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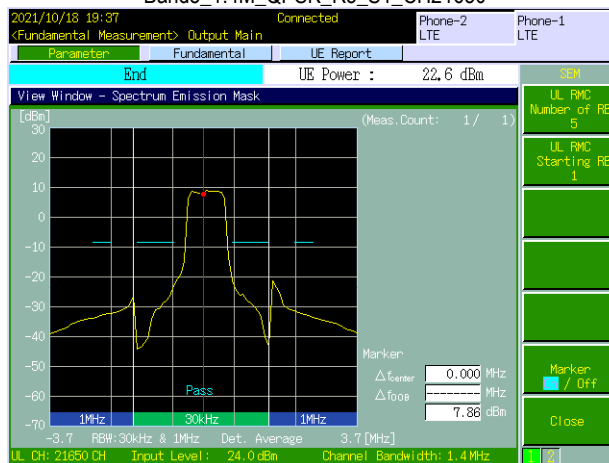
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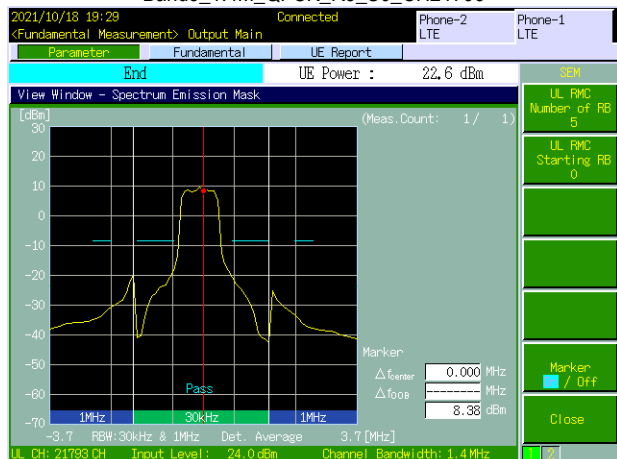
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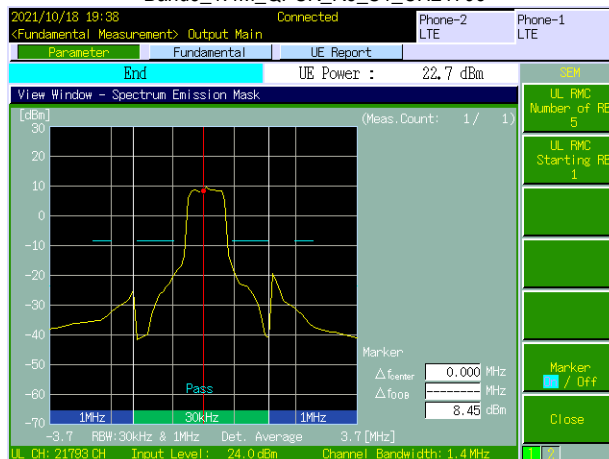
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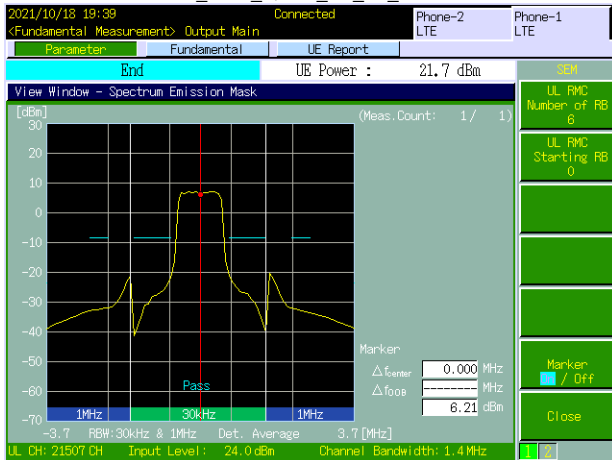


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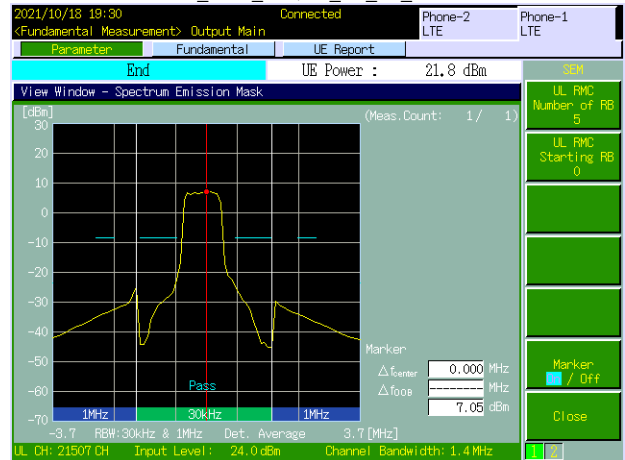
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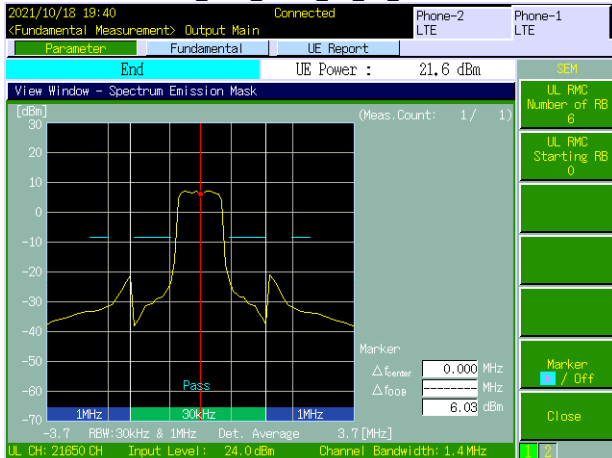
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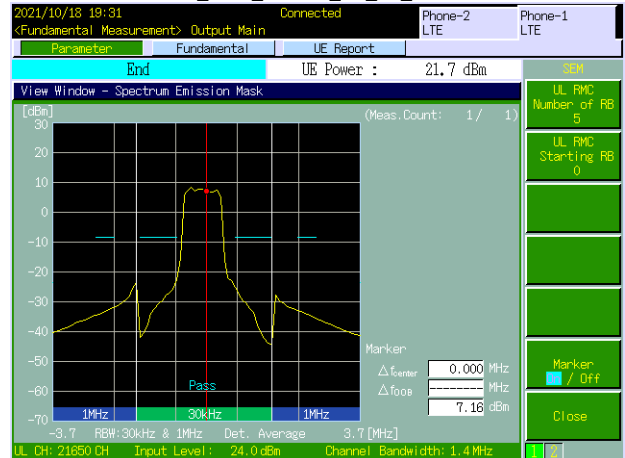
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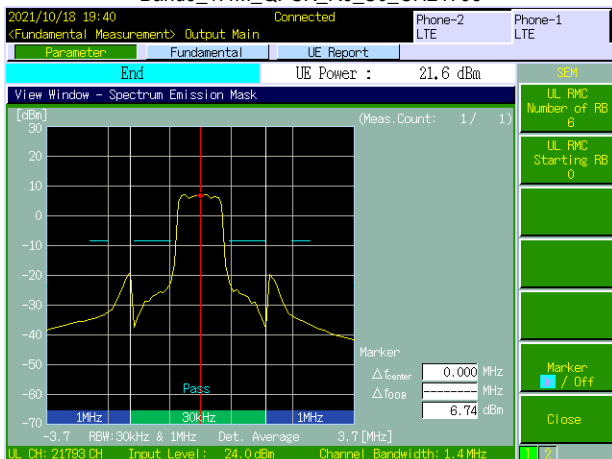
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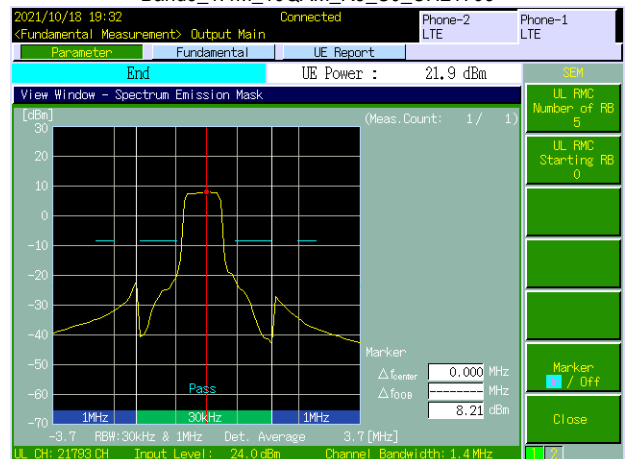
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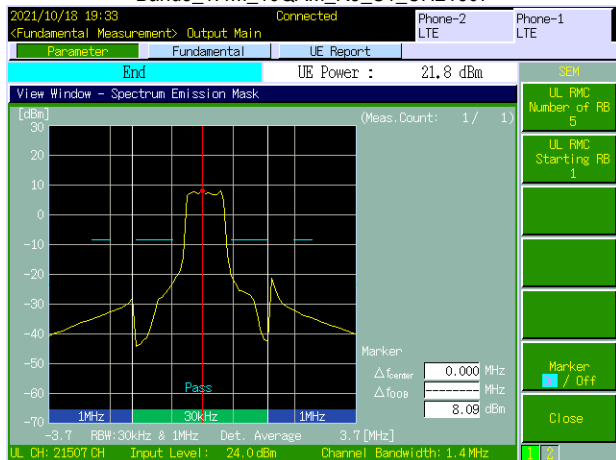


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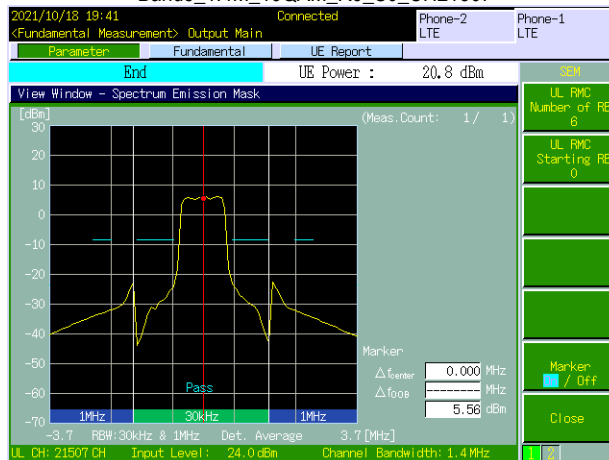
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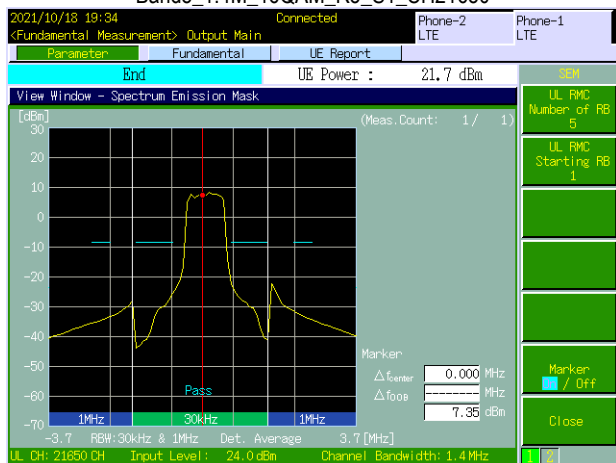
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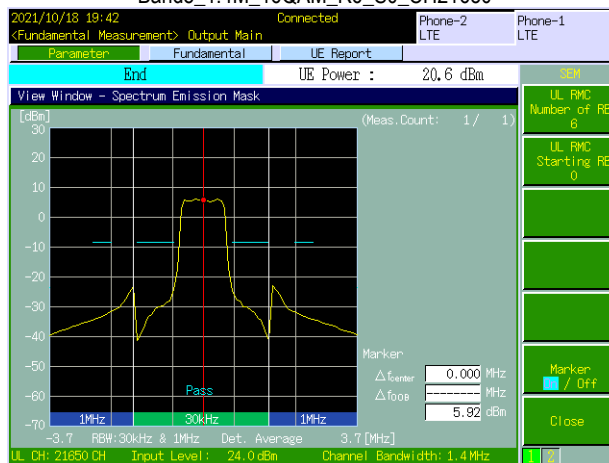
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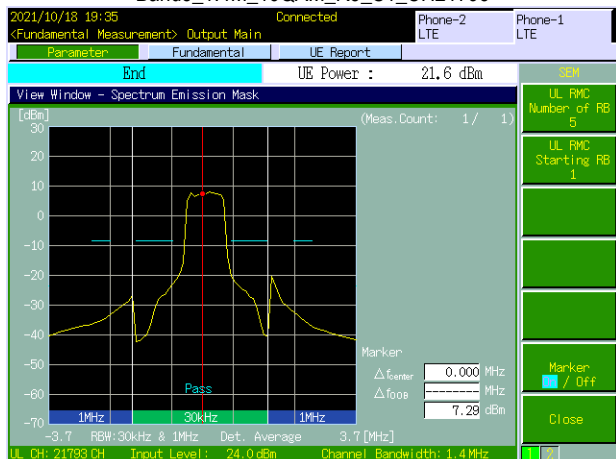
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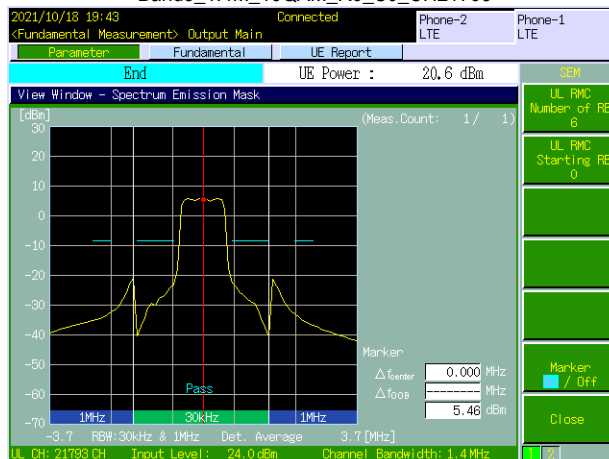
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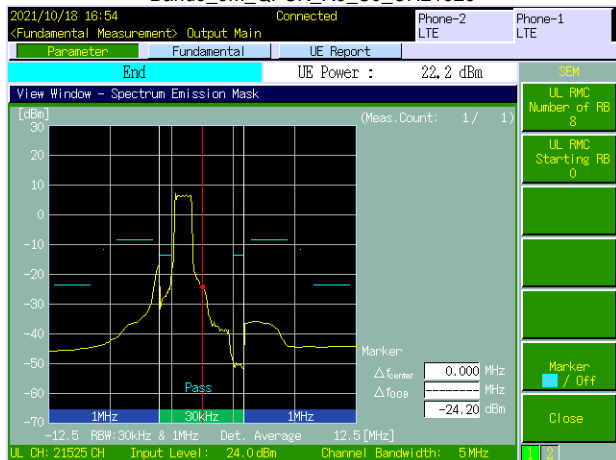


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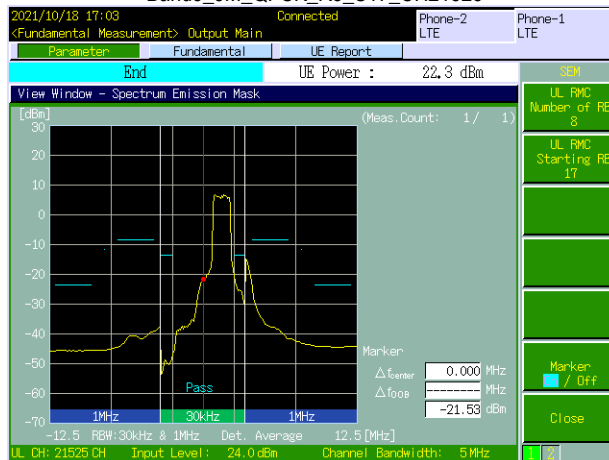
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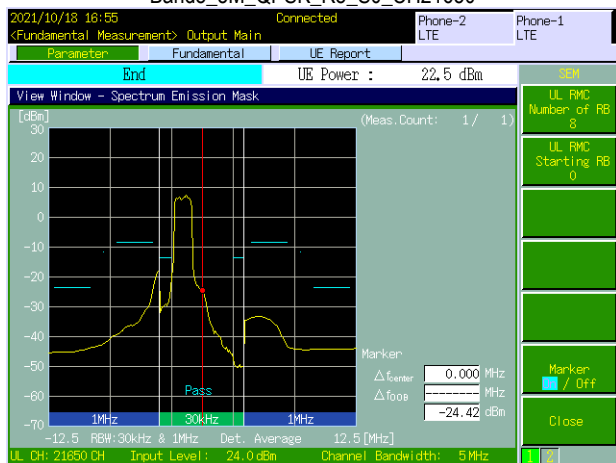
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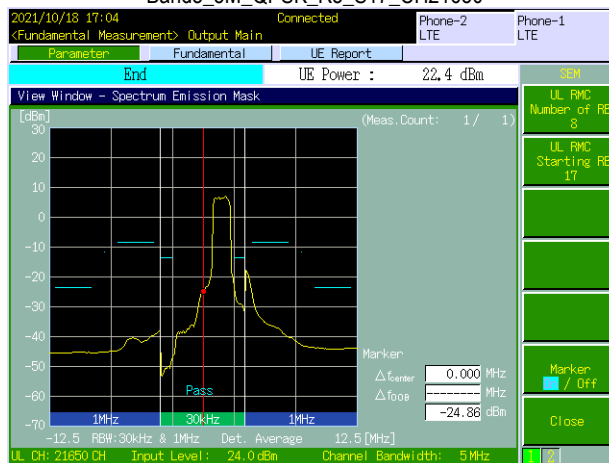
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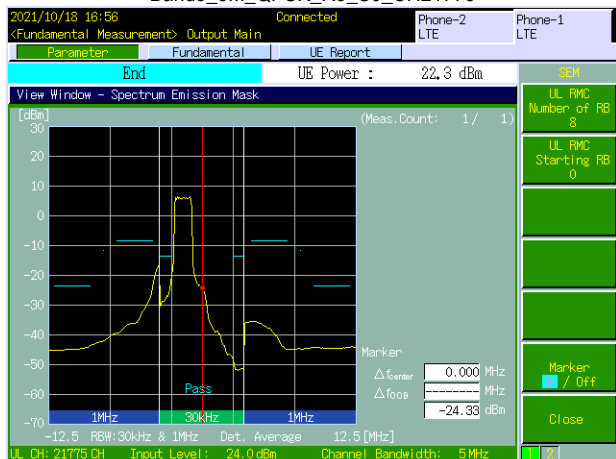
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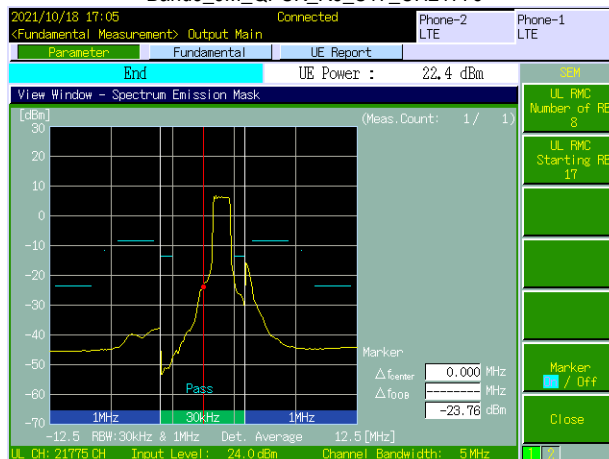
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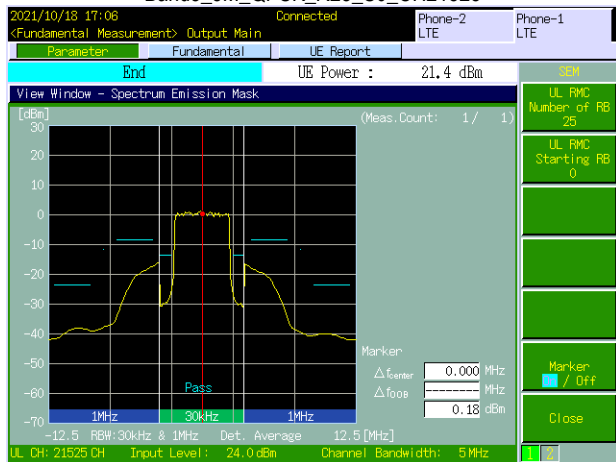


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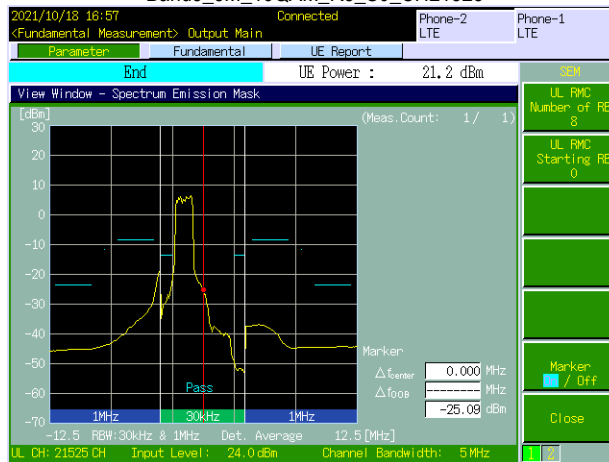
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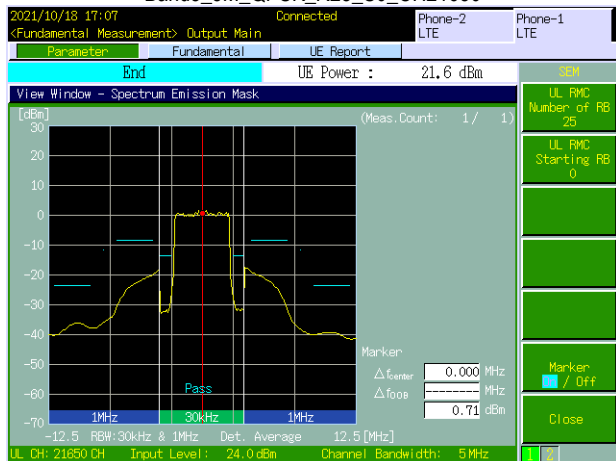
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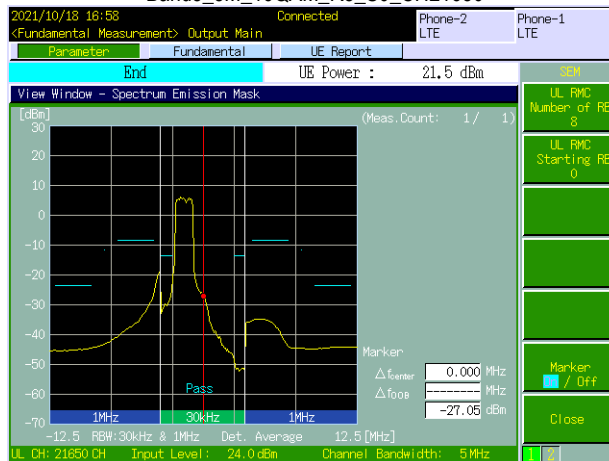
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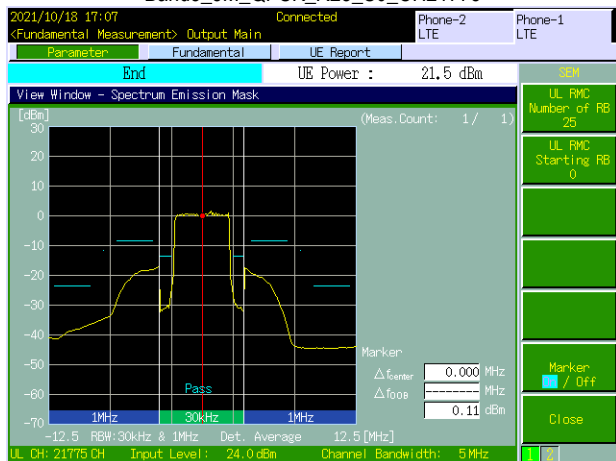
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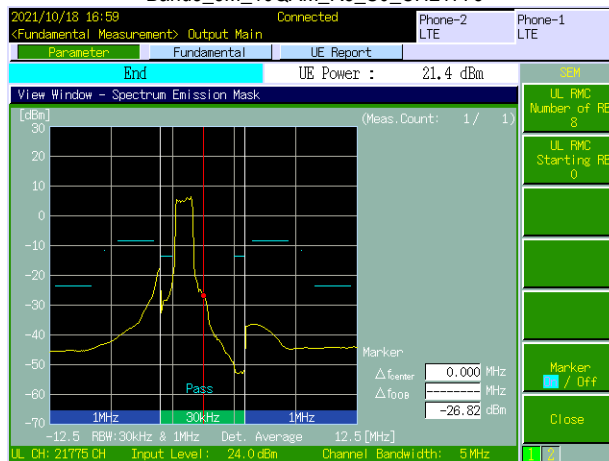
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Band8_5M_QPSK_R25_S0_CH21775



Band8_5M_16QAM_R8_S0_CH21775

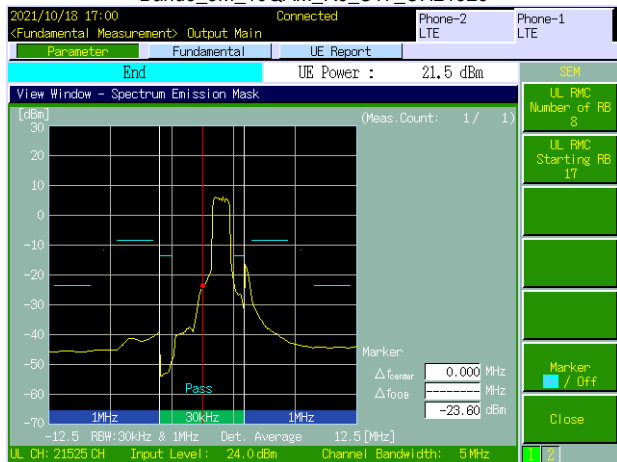


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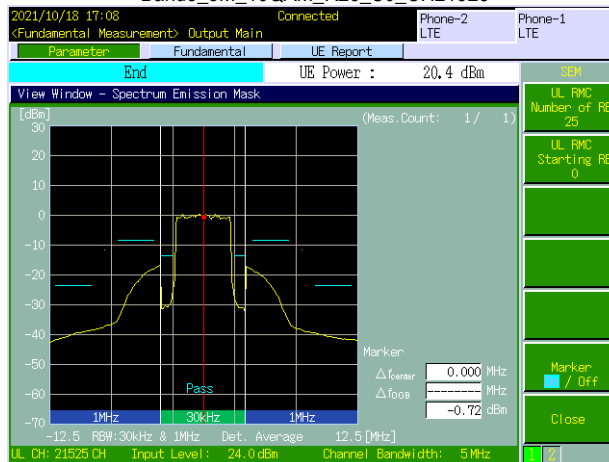
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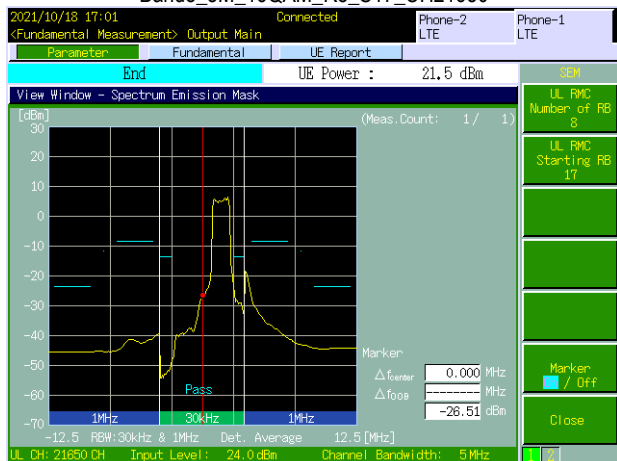
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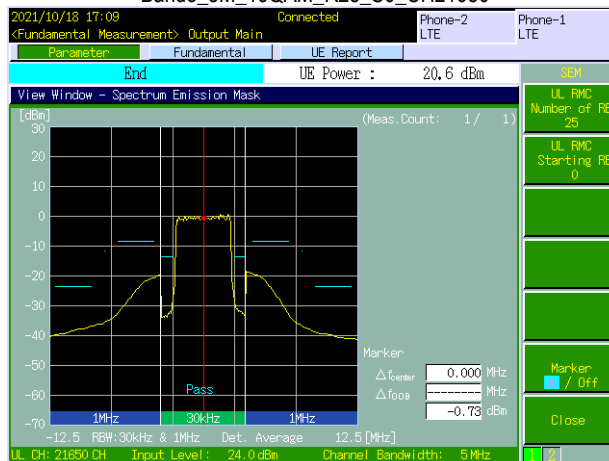
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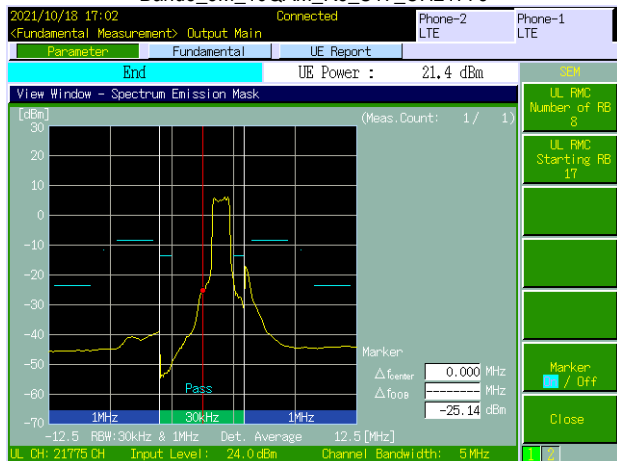
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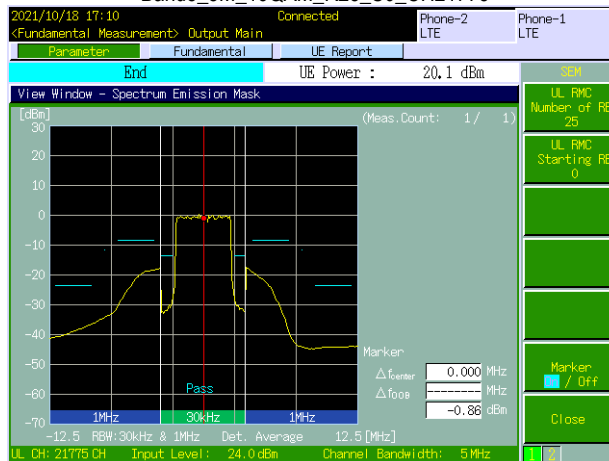
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Band8_5M_16QAM_R8_S17_CH21775



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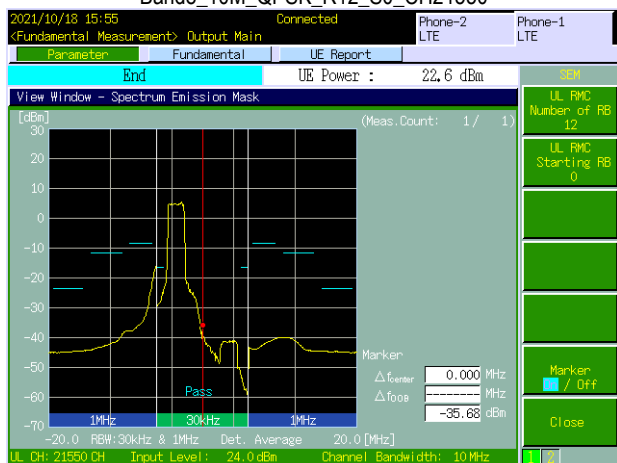


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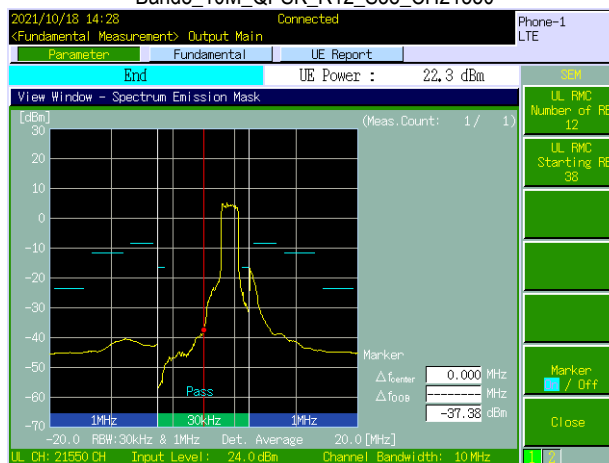
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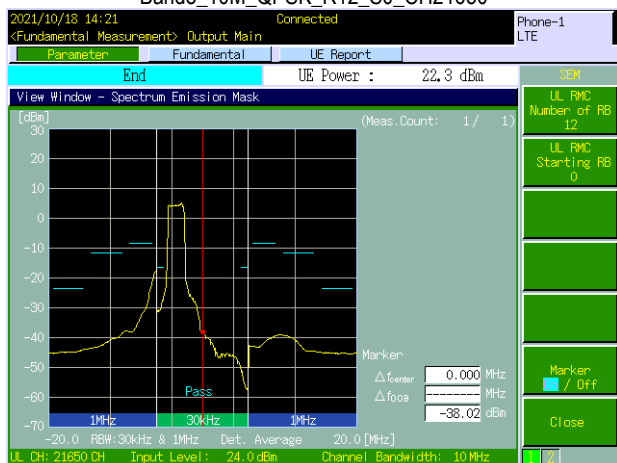
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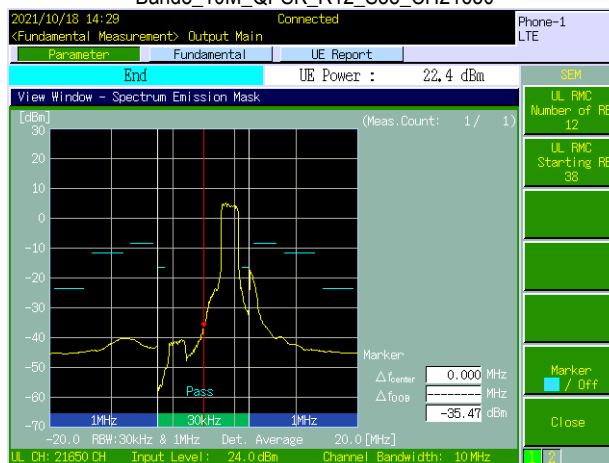
Band8_10M_QPSK_R12_S38_CH21550



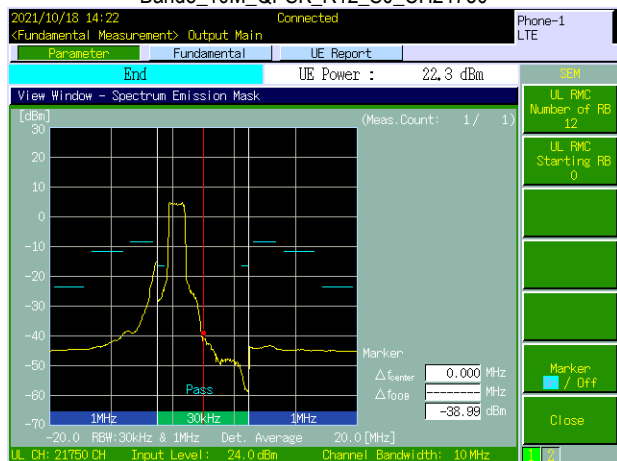
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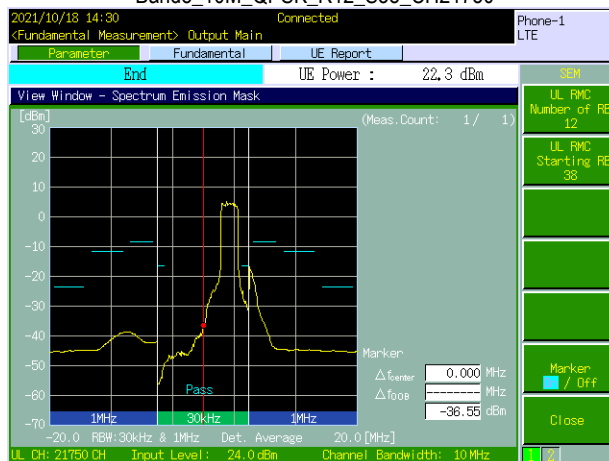
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Band8_10M_QPSK_R12_S38_CH21750

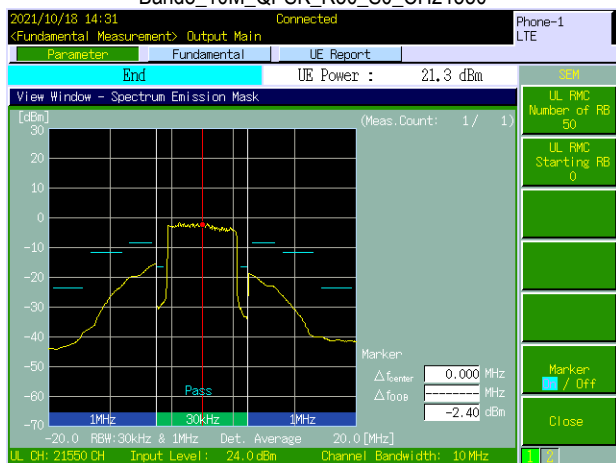


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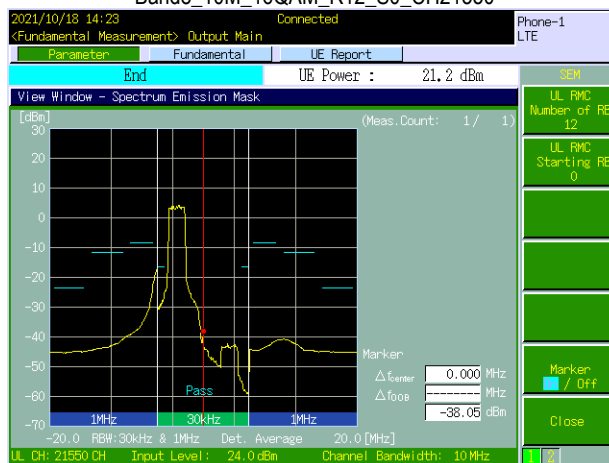
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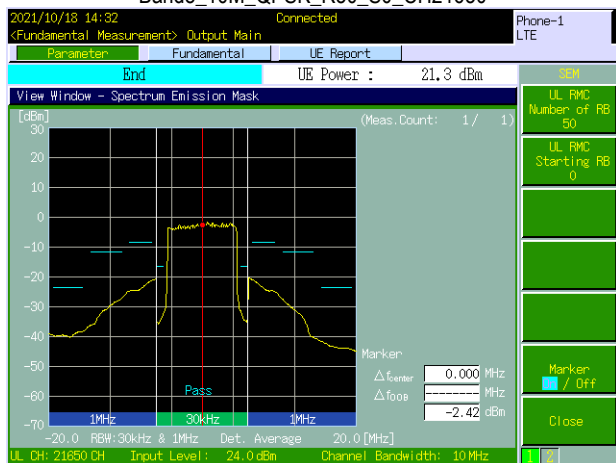
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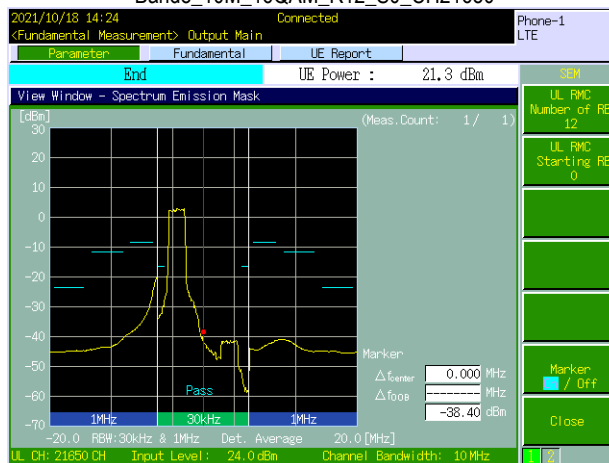
Band8_10M_16QAM_R12_S0_CH21550



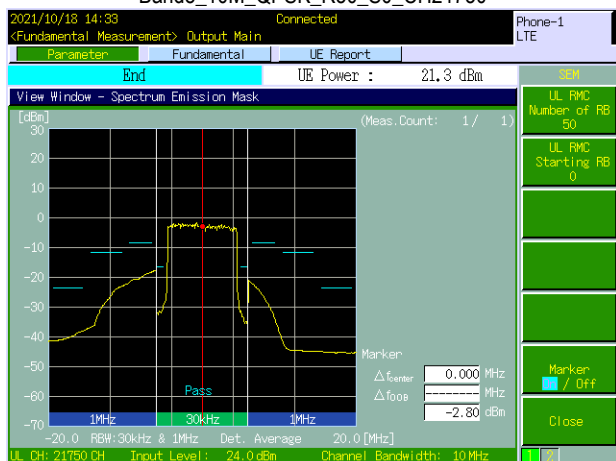
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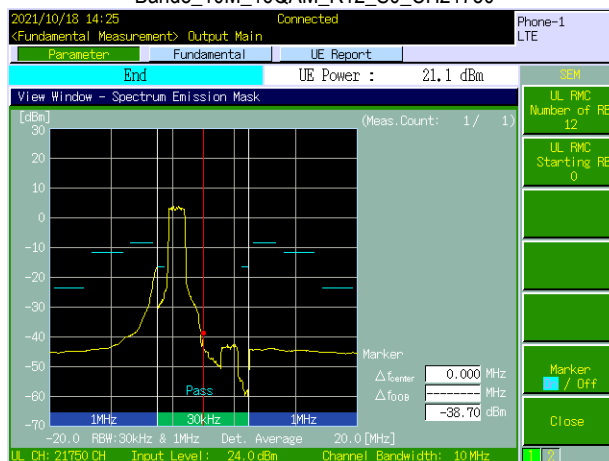
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Band8_10M_QPSK_R50_S0_CH21750



Band8_10M_16QAM_R12_S0_CH21750

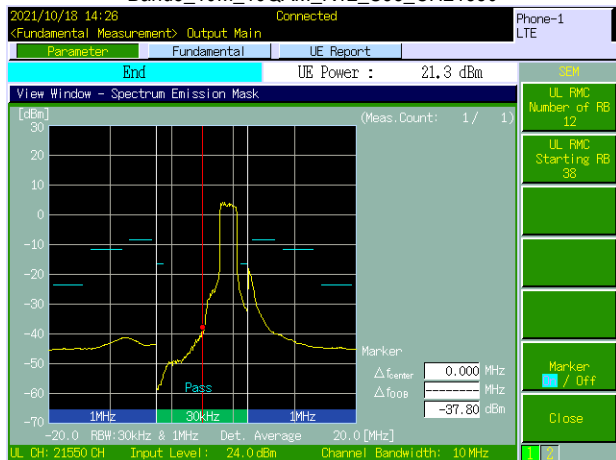


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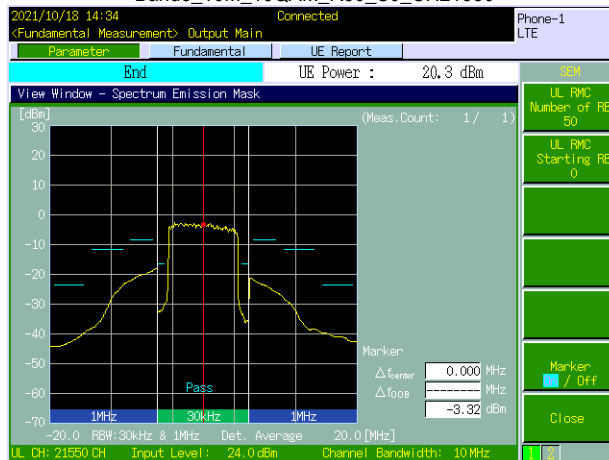
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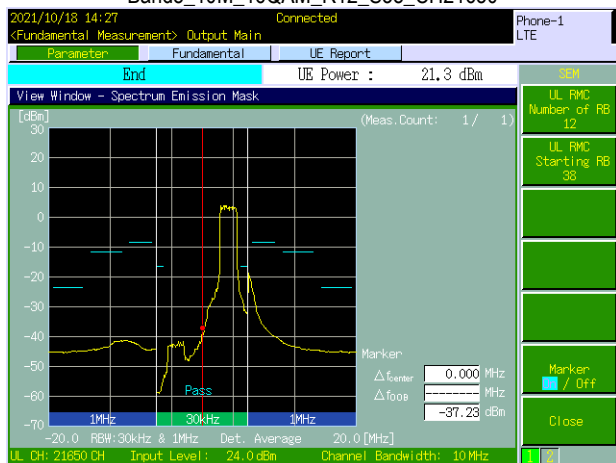
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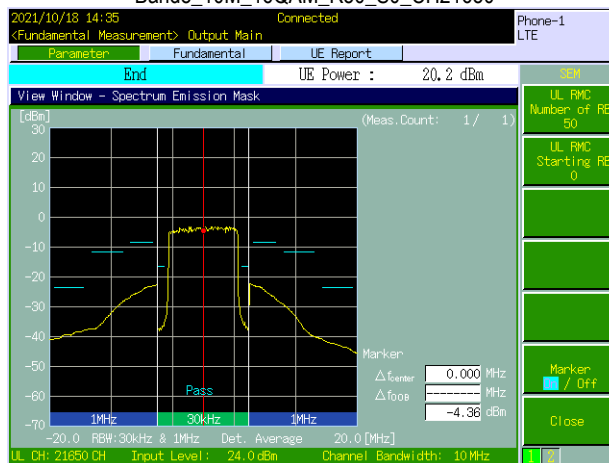
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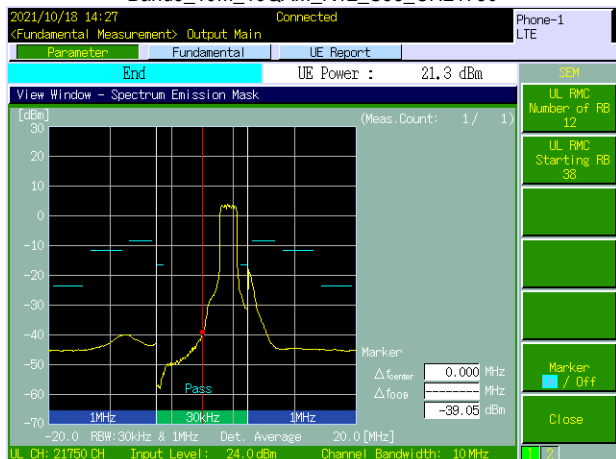
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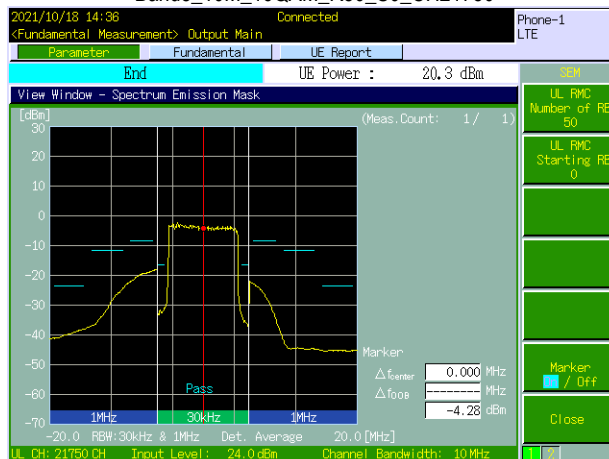
Band8_10M_16QAM_R50_S0_CH21650



Band8_10M_16QAM_R12_S38_CH21750



Band8_10M_16QAM_R50_S0_CH21750



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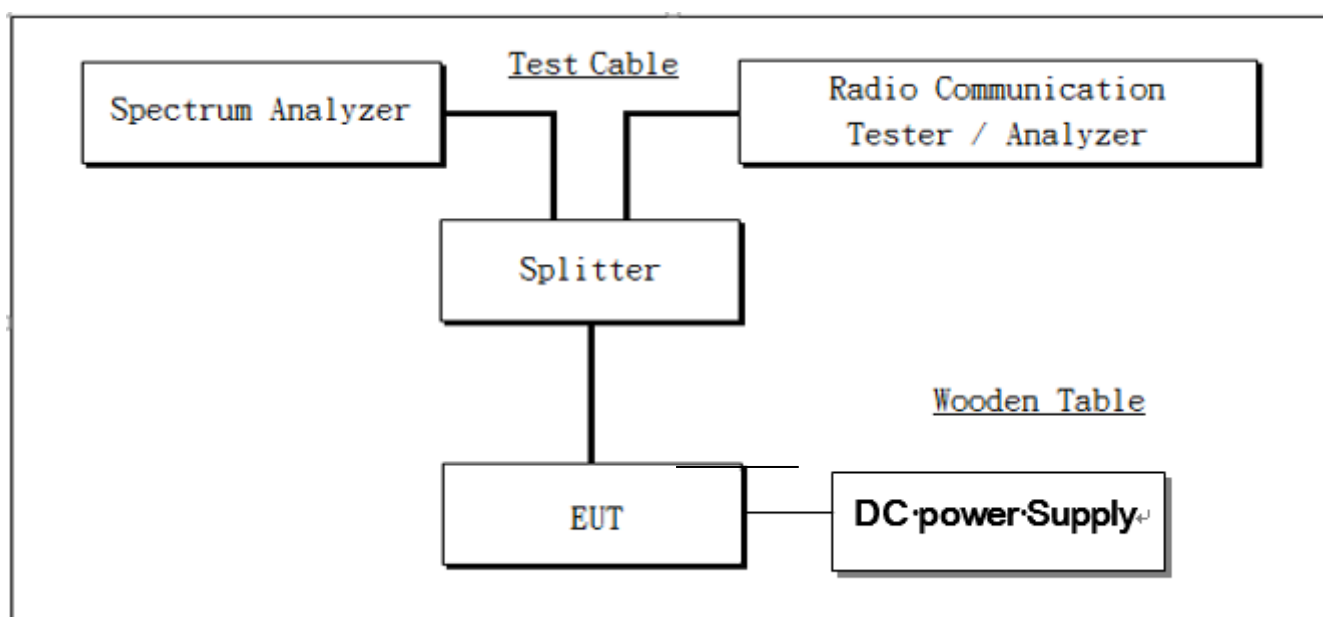
10 傳導帶外輻射發射限制之量測

10.1 適用標準:

工作頻帶外輻射發射應符合下列帶外輻射規範值

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
$1\text{GHz} \leq f < 12.75\text{GHz}$	-30 dBm	1MHz

10.2 測試配置:



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10.3 量測儀器:

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Coaxial Cables	Woken	00100A1F1A 185C	RF54	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A 185C	RF71	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A 185C	RF72	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF157	11/19/2020	11/18/2021
Splitter	Woken	DOM35LW1A 2	RF255	11/19/2020	11/18/2021

NOTE: N.C.R refers to Not Calibrated Required.

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10.4 測試方法:

- (1) 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發射模式，均應分別檢測之。
- (2) 檢測的調變方式及 RB allocation 依附表 50、3GPP TS36.521 Table 6.6.3.1.4.1-1 規定。
- (3) 帶外輻射量測頻率範圍，不包含 PLMN All 中附表 47 之 f_{OOB} 。量測時的解析頻寬不小於以下附表 50 的設定值。

附表 50、LTE 終端設備帶外輻射之測試參數

預設條件						
測試環境		常態環境常態電壓				
測試頻道		低、中、高				
測試頻道頻寬		最低、5 MHz 及最高				
測試參數						
	下行結構			上行結構		
頻道頻寬	調變方式	資源區塊分配		調變方式	資源區塊分配	
		FDD	TDD		FDD	TDD
1.4MHz	帶外輻射測試不適用			QPSK	6	6
1.4MHz				QPSK	1	1
3MHz				QPSK	15	15
3MHz				QPSK	1	1
5MHz				QPSK	25	25
5MHz				QPSK	1	1
10MHz				QPSK	50	50
10MHz				QPSK	1	1
15MHz				QPSK	75	75
15MHz				QPSK	1	1
20MHz				QPSK	100	100
20MHz				QPSK	1	1

註：RB offset 設定值及應檢項目之測試方法，依 3GPP TS 36.521 技術標準規定。

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10.5 量測結果:

請參考以下測試結果及附件詳細輻射混附發射項目(CSE)的原始測試數據(Raw Data)

LTEB1

BW (MHz)	RB Size	RB Offset	Channel	Modulation	Pass / Fail
5	1	0	18025	QPSK	Pass
			18300		Pass
			18575		Pass
	1	24	18025		Pass
			18300		Pass
			18575		Pass
	25	0	18025		Pass
			18300		Pass
			18575		Pass
20	1	0	18100		Pass
			18300		Pass
			18500		Pass
	1	99	18100		Pass
			18300		Pass
			18500		Pass
	100	0	18100		Pass
			18300		Pass
			18500		Pass

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LTEB3

BW (MHz)	RB Size	RB Offset	Channel	Modulation	Pass / Fail
1.4	1	0	19207	QPSK	Pass
			19575		Pass
			19943		Pass
	1	5	19207		Pass
			19575		Pass
			19943		Pass
	6	0	19207		Pass
			19575		Pass
			19943		Pass
5	1	0	19225		Pass
			19575		Pass
			19925		Pass
	1	24	19225		Pass
			19575		Pass
			19925		Pass
	25	0	19225		Pass
			19575		Pass
			19925		Pass
20	1	0	19300		Pass
			19575		Pass
			19850		Pass
	1	99	19300		Pass
			19575		Pass
			19850		Pass
	100	0	19300		Pass
			19575		Pass
			19850		Pass

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LTEB8

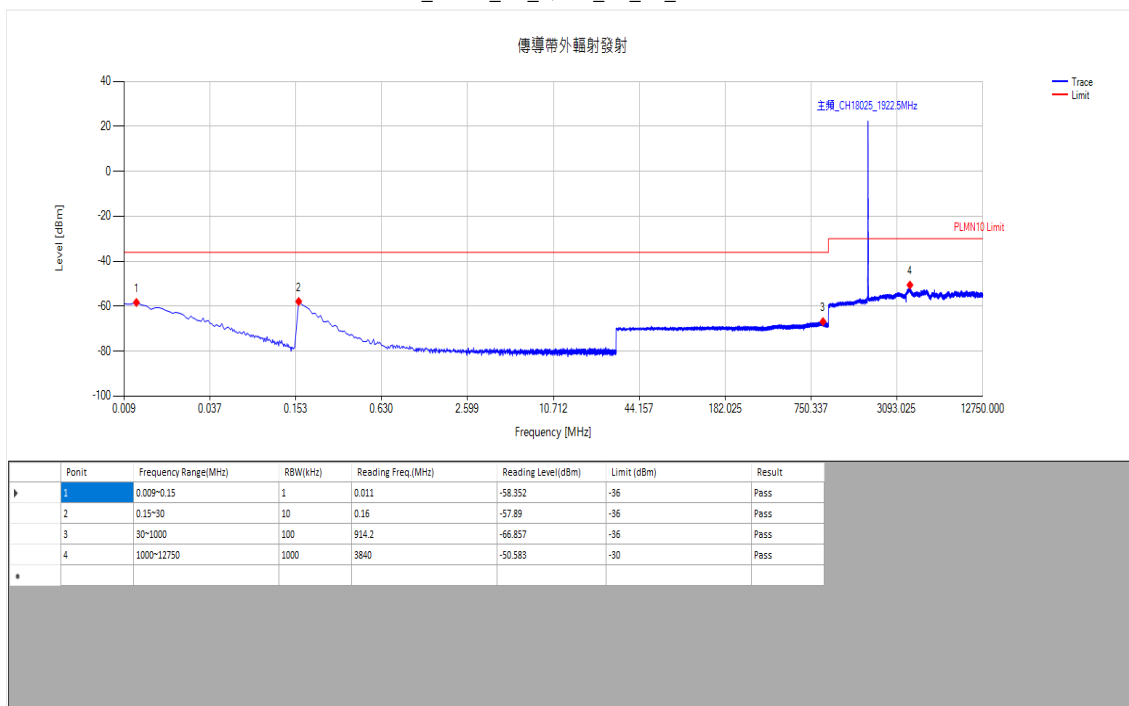
BW (MHz)	RB Size	RB Offset	Channel	Modulation	Pass / Fail
1.4	1	0	21507	QPSK	Pass
			21650		Pass
			21793		Pass
	1	5	21507		Pass
			21650		Pass
			21793		Pass
	6	0	21507		Pass
			21650		Pass
			21793		Pass
5	1	0	21525		Pass
			21650		Pass
			21775		Pass
	1	24	21525		Pass
			21650		Pass
			21775		Pass
	25	0	21525		Pass
			21650		Pass
			21775		Pass
10	1	0	21550		Pass
			21650		Pass
			21750		Pass
	1	49	21550		Pass
			21650		Pass
			21750		Pass
	50	0	21550		Pass
			21650		Pass
			21750		Pass

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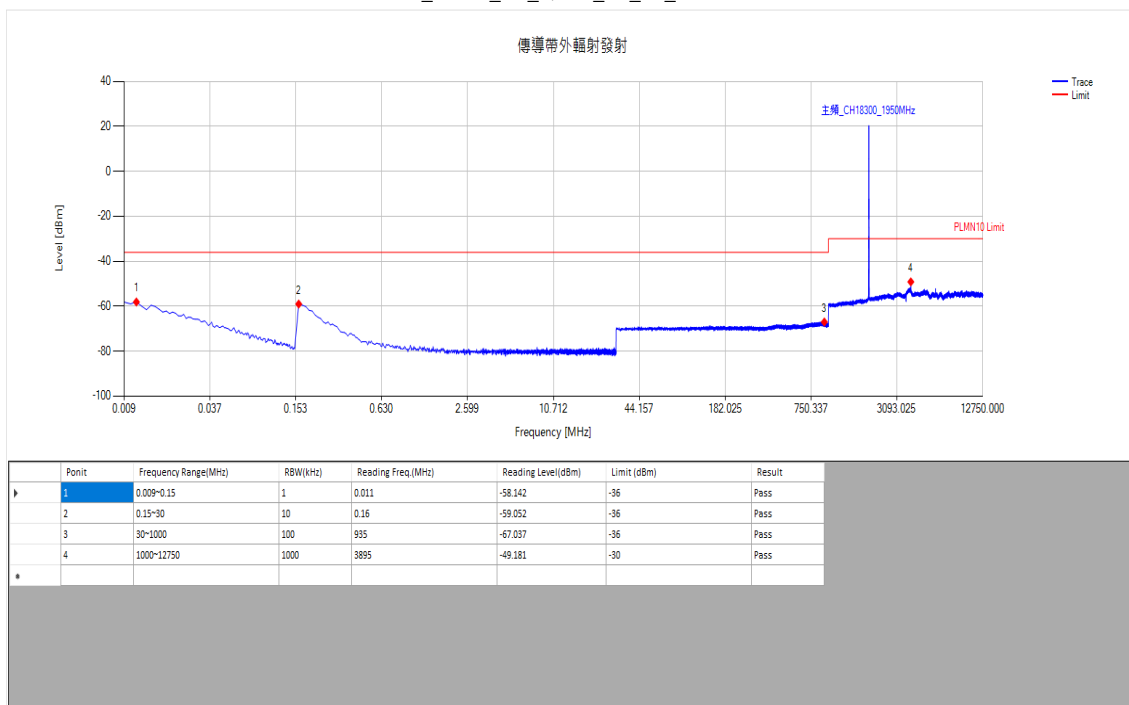
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LTE_Band1_5M_QPSK_R1_S0_CH18025



LTE_Band1_5M_QPSK_R1_S0_CH18300

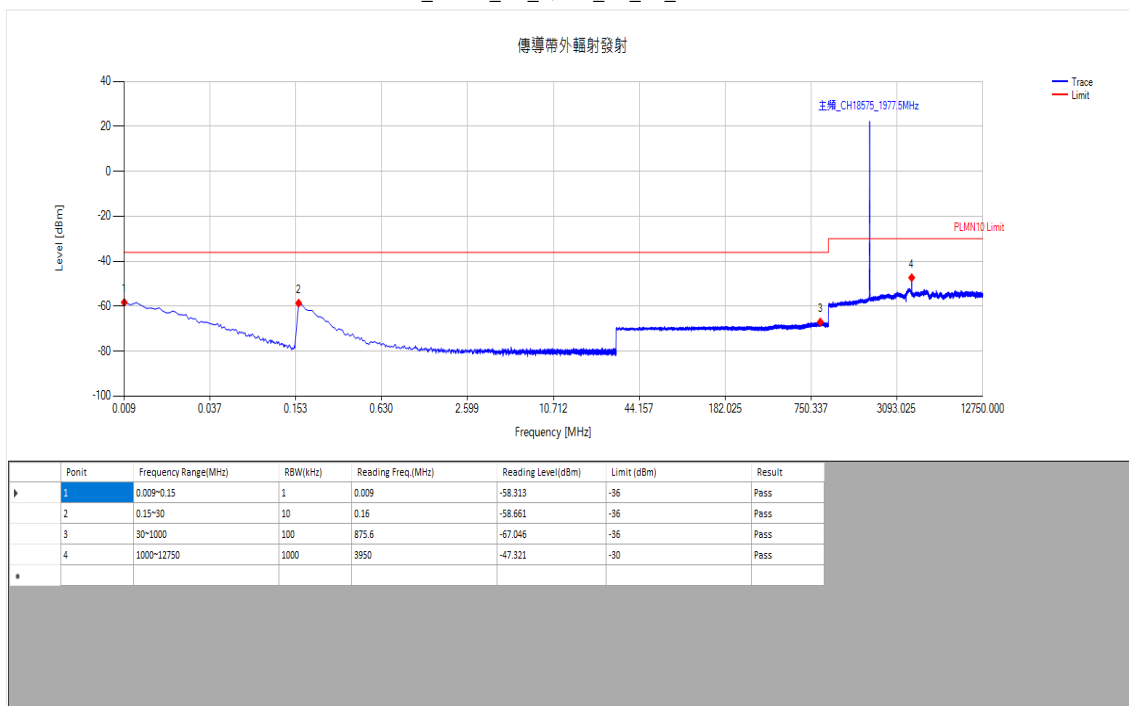


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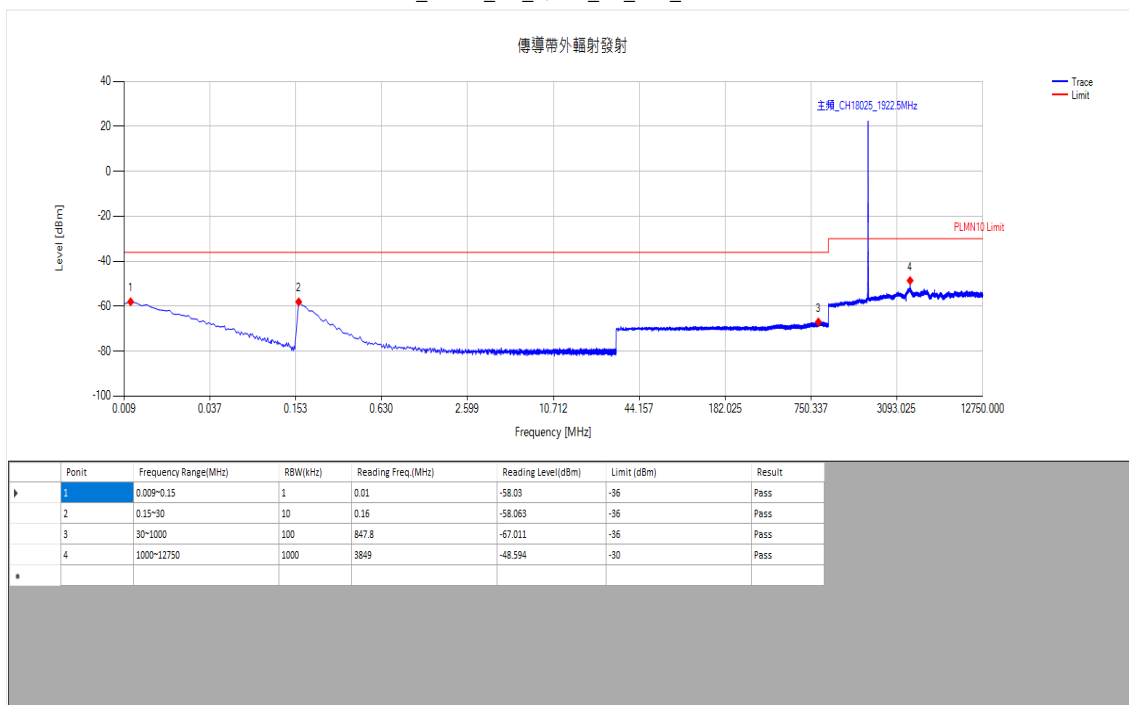
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LTE_Band1_5M_QPSK_R1_S0_CH18575



LTE_Band1_5M_QPSK_R1_S24_CH18025

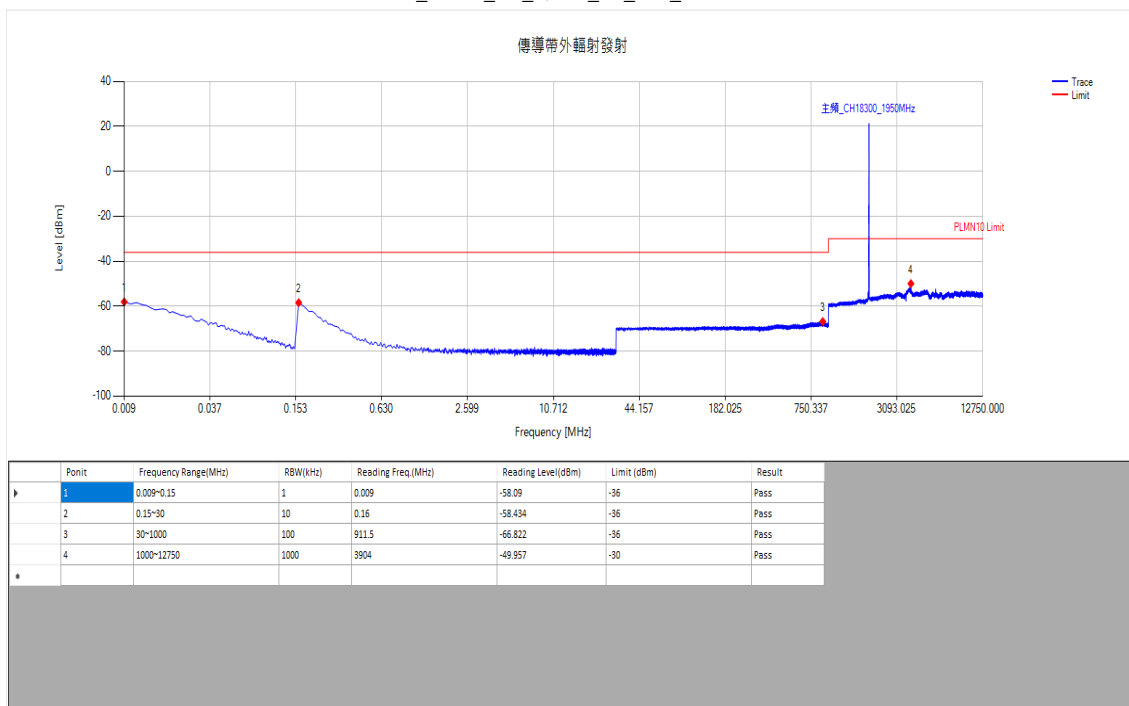


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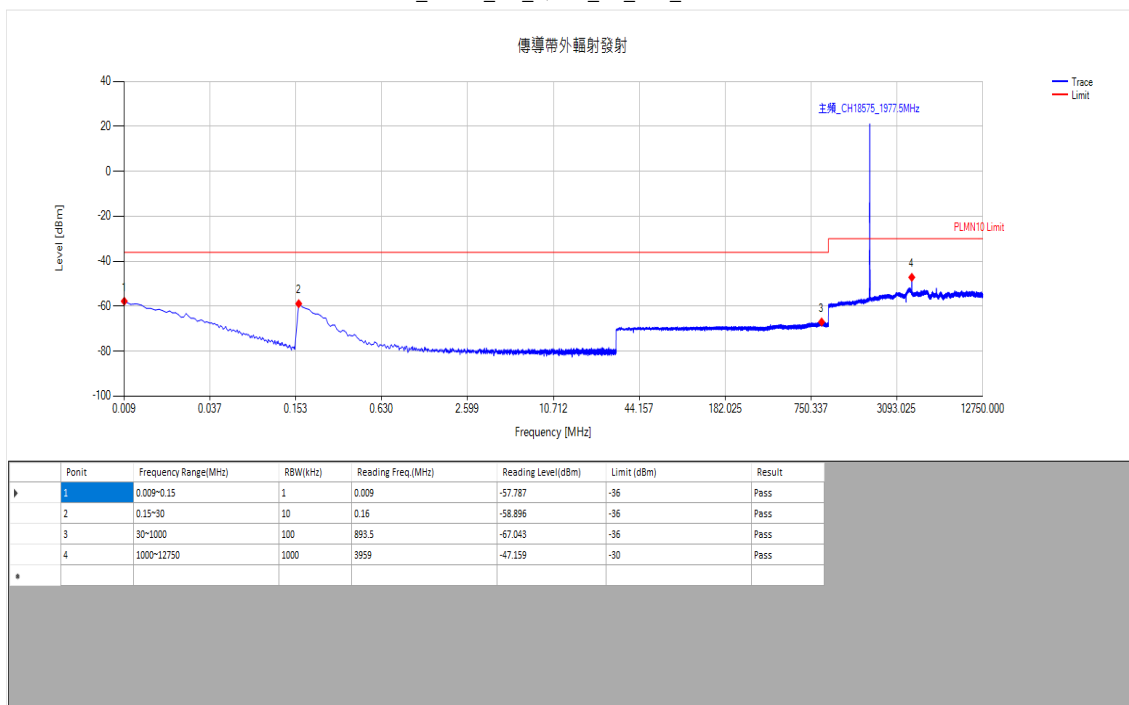
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LTE_Band1_5M_QPSK_R1_S24_CH18300



LTE_Band1_5M_QPSK_R1_S24_CH18575

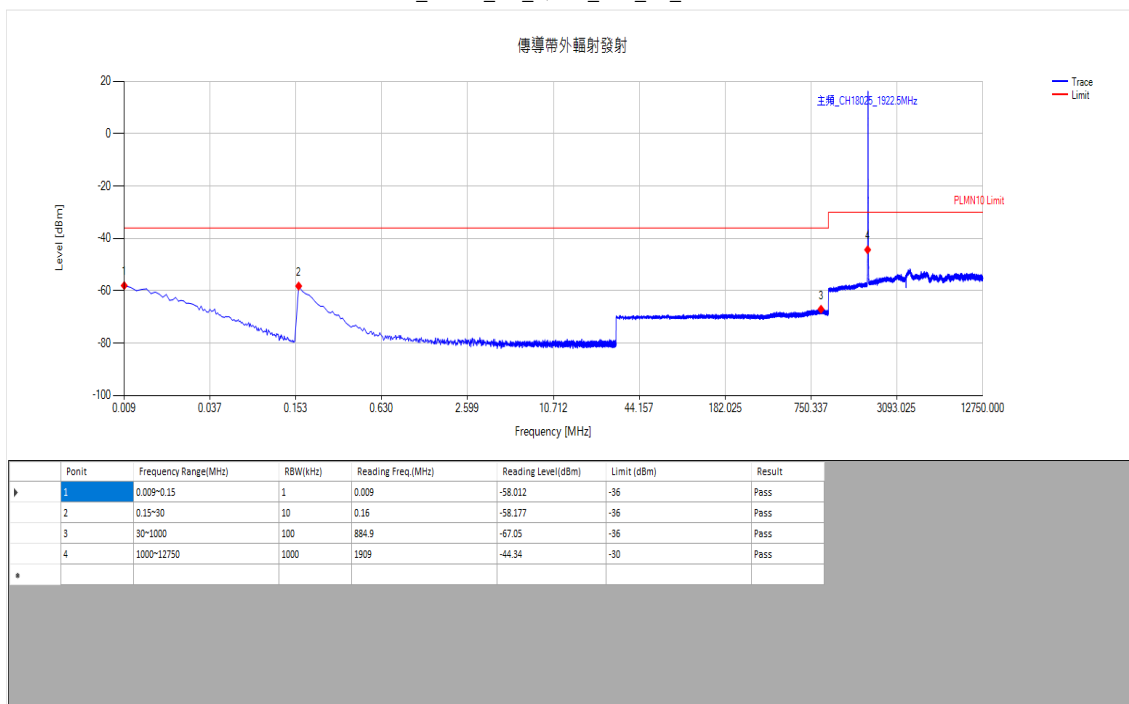


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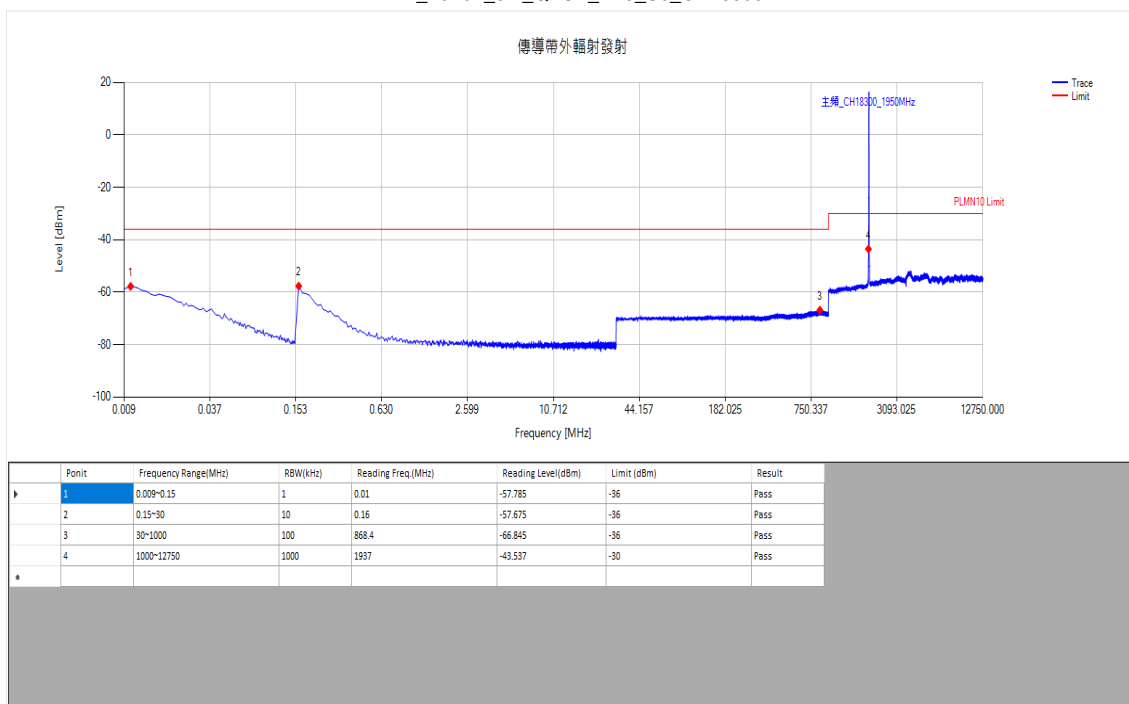
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LTE_Band1_5M_QPSK_R25_S0_CH18025



LTE_Band1_5M_QPSK_R25_S0_CH18300

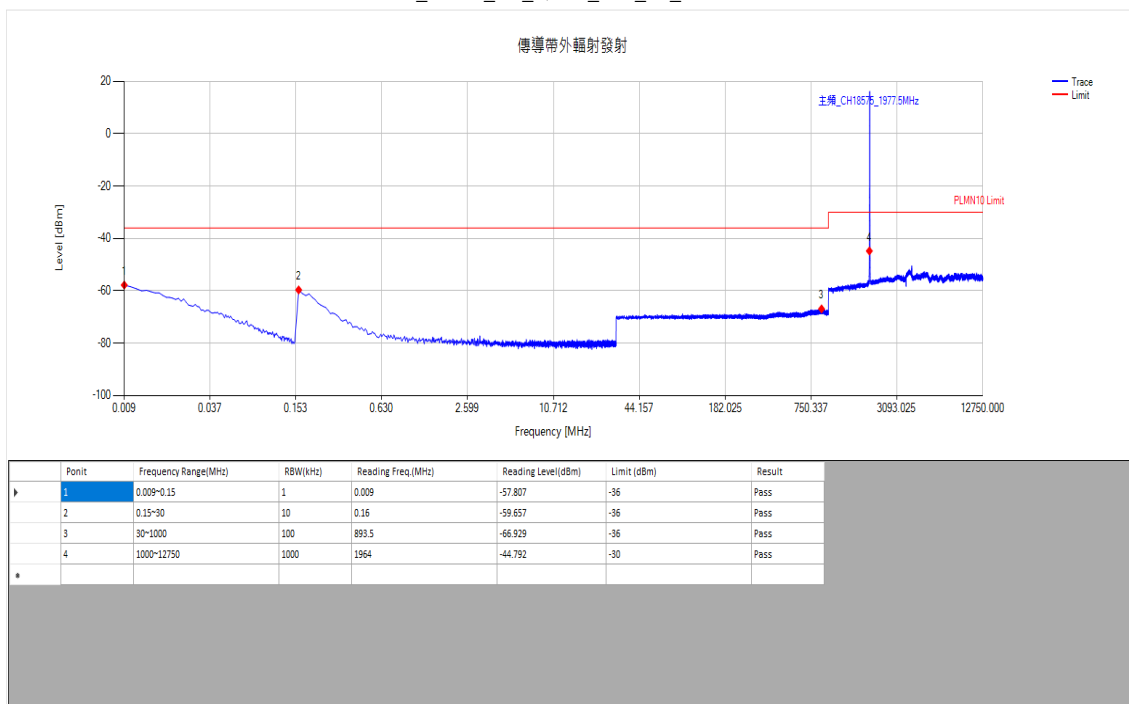


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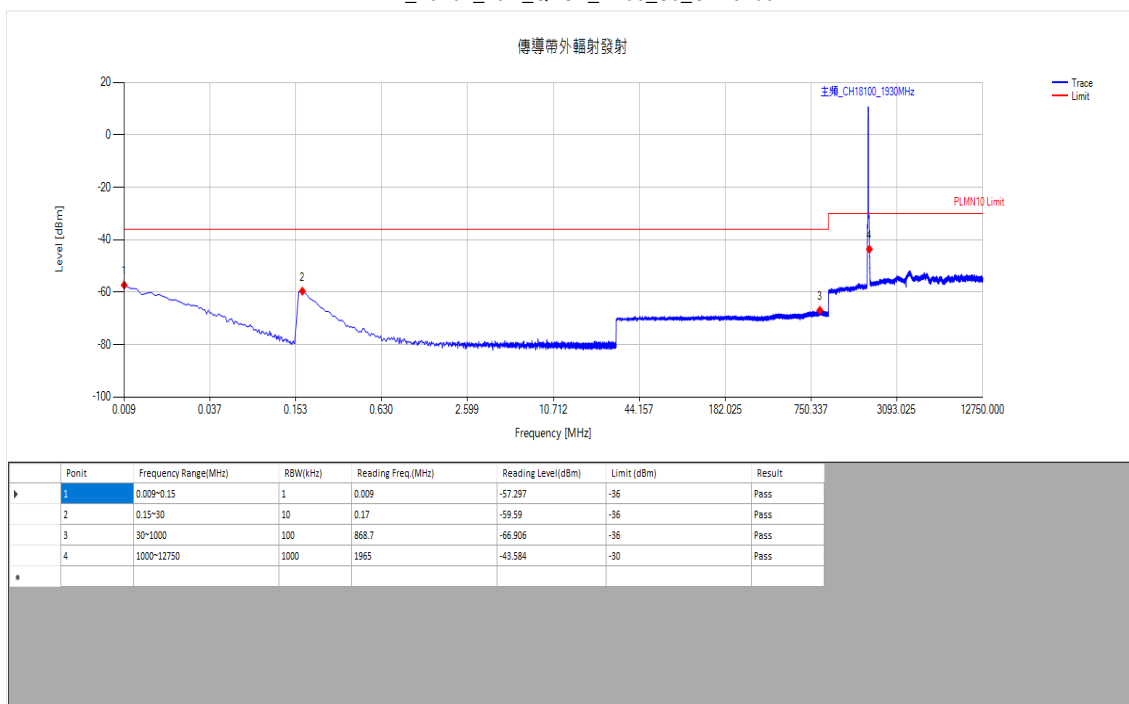
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LTE_Band1_5M_QPSK_R25_S0_CH18575



LTE_Band1_20M_QPSK_R100_S0_CH18100

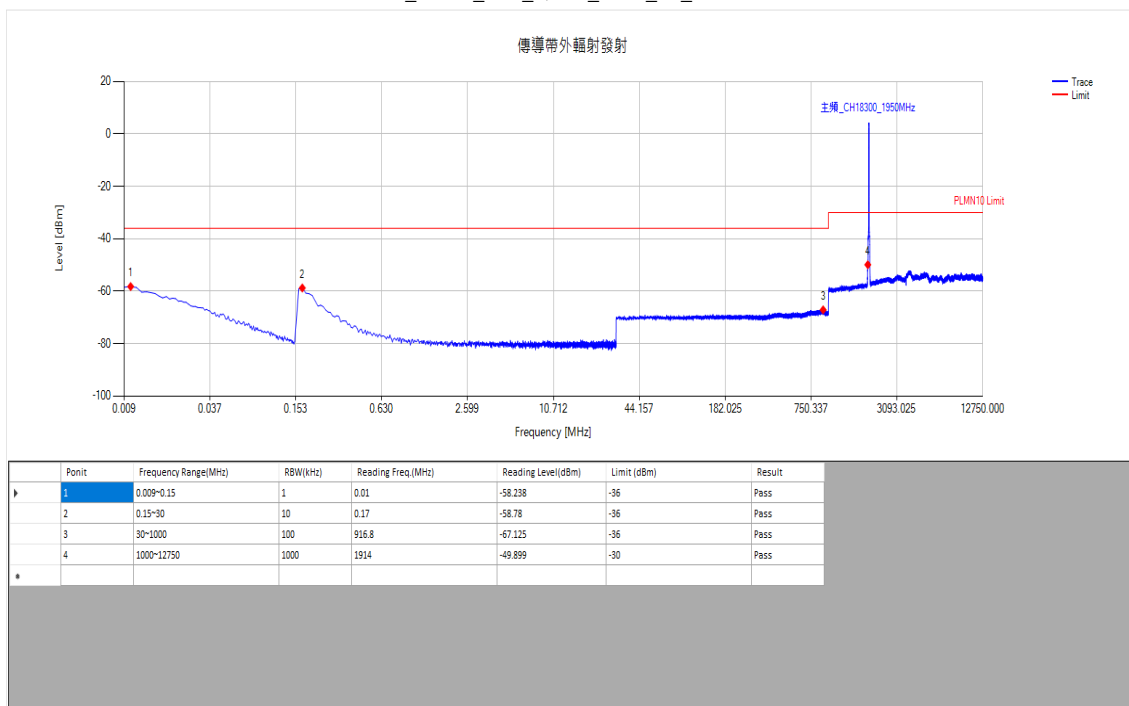


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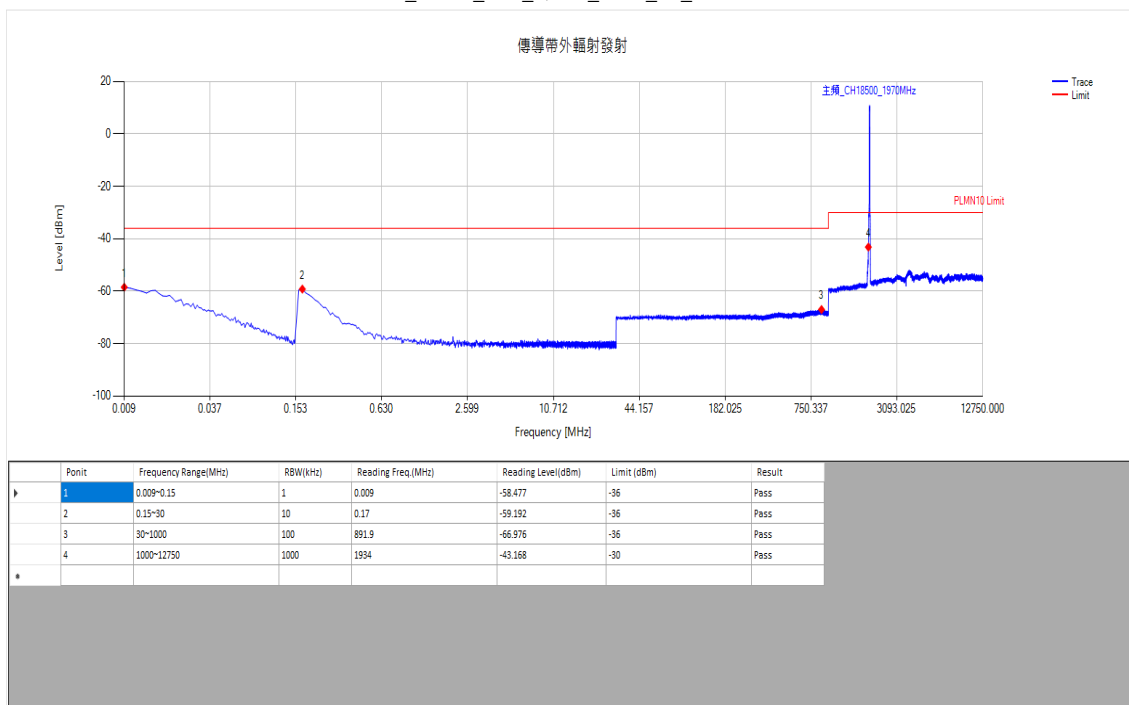
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LTE_Band1_20M_QPSK_R100_S0_CH18300



LTE_Band1_20M_QPSK_R100_S0_CH18500

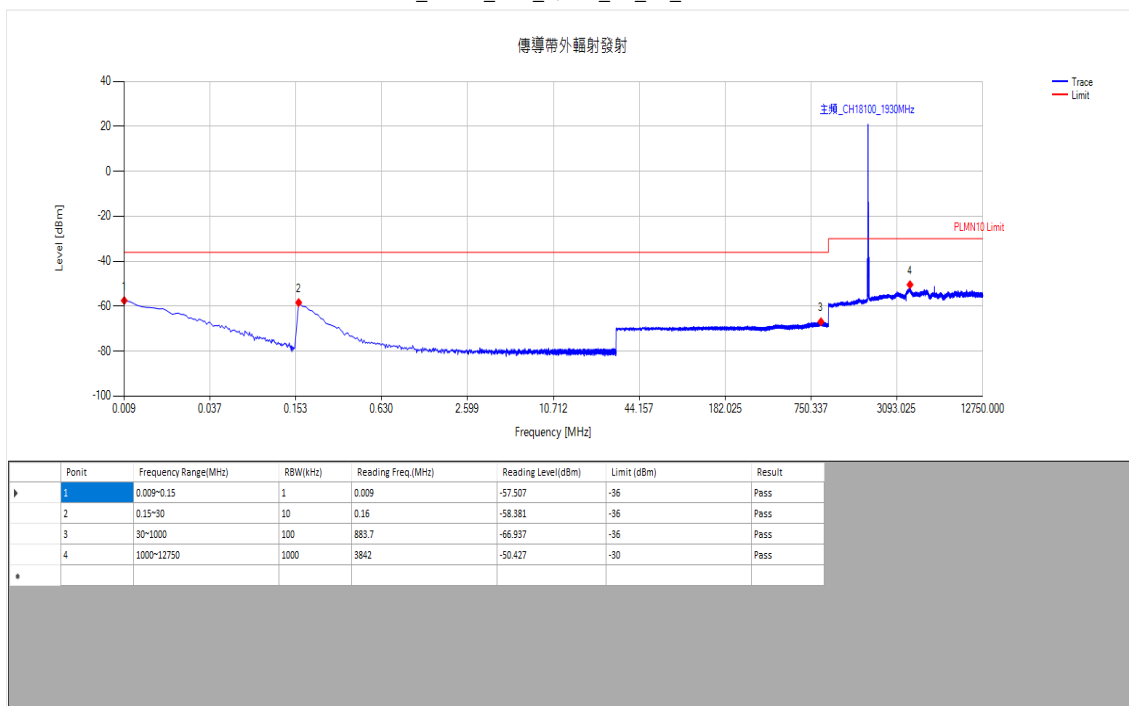


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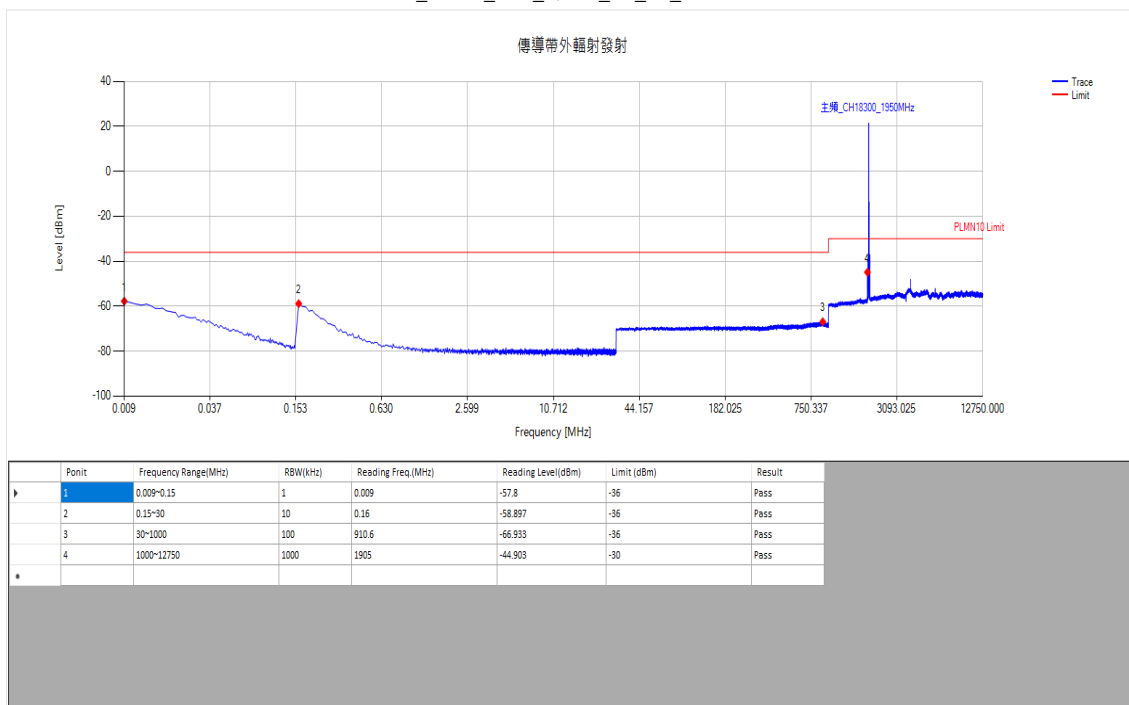
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LTE_Band1_20M_QPSK_R1_S0_CH18100



LTE_Band1_20M_QPSK_R1_S0_CH18300

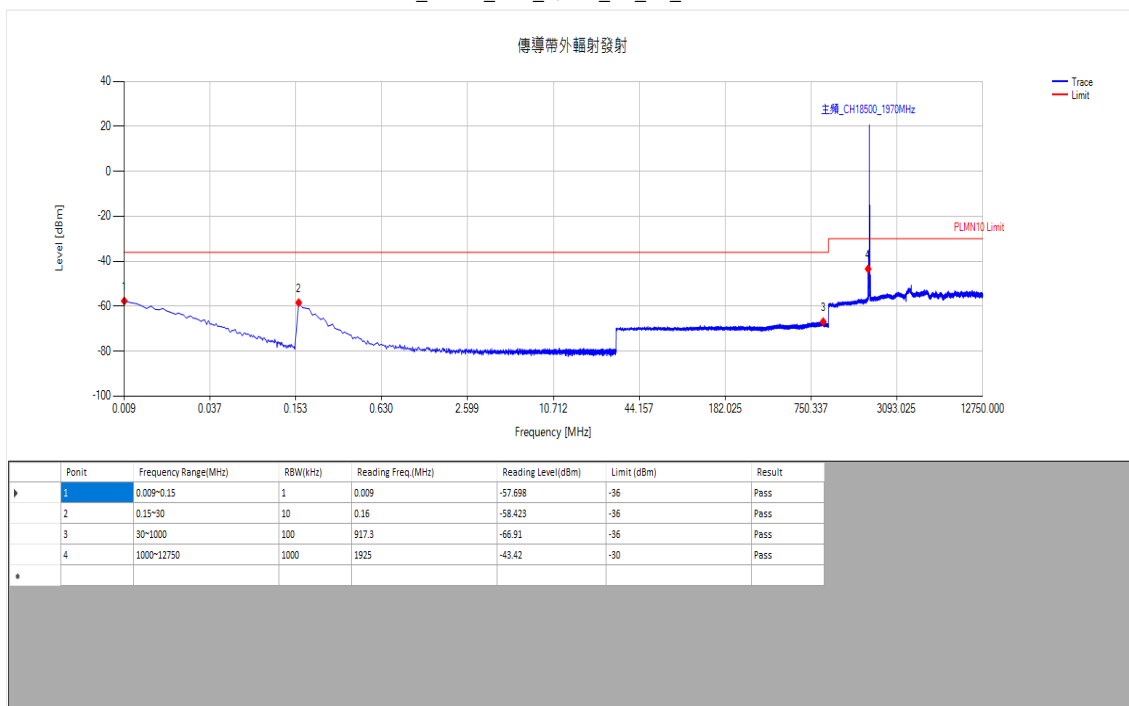


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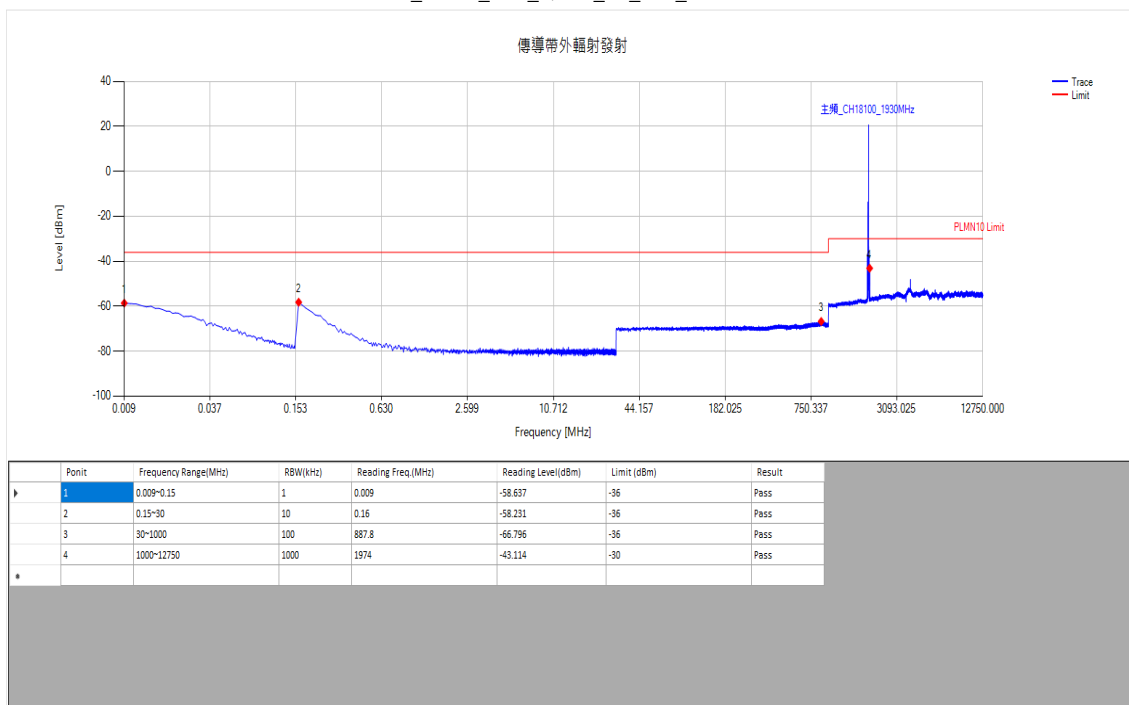
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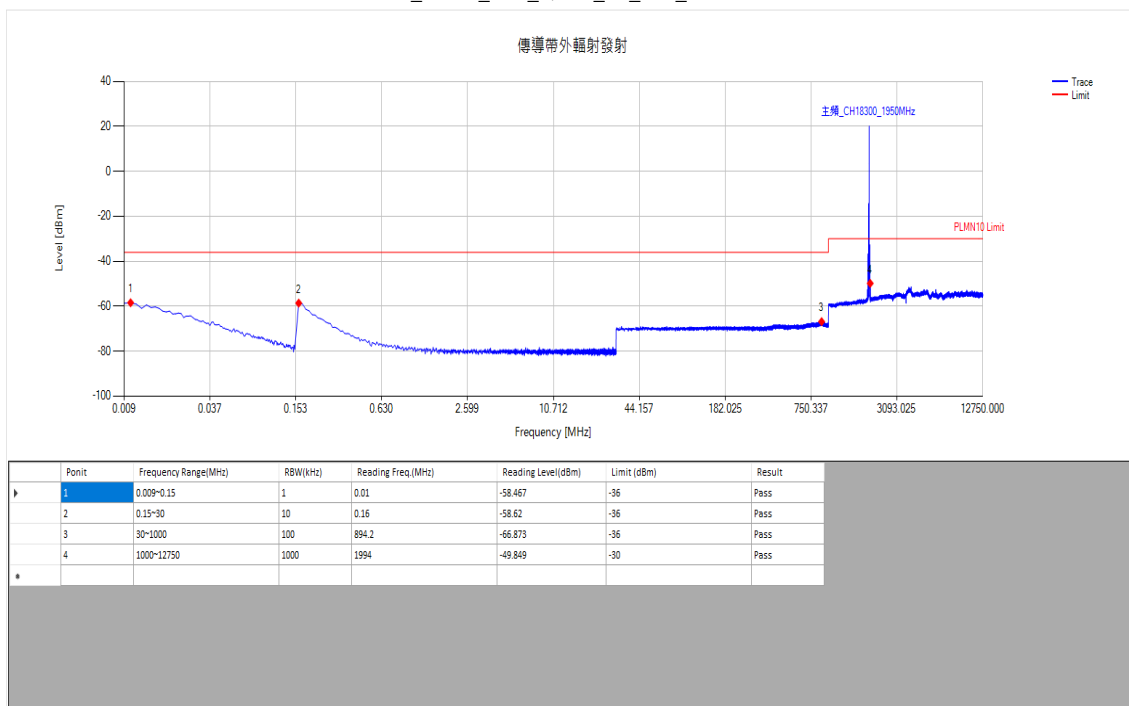


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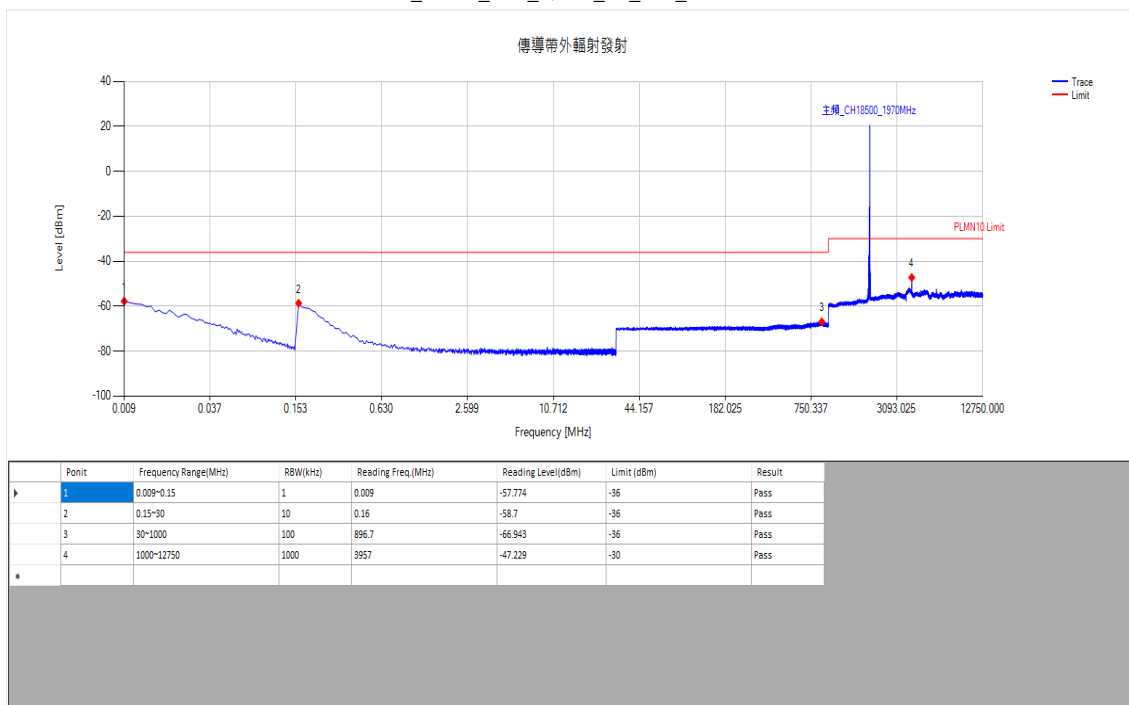
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LTE_Band1_20M_QPSK_R1_S99_CH18300



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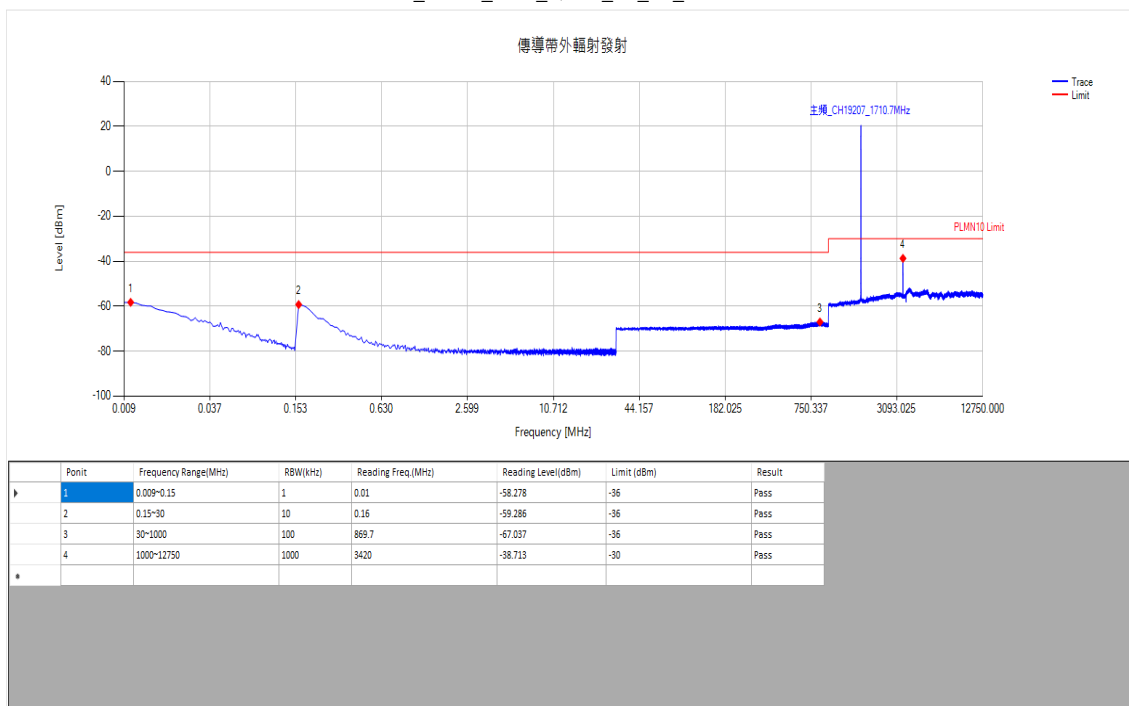


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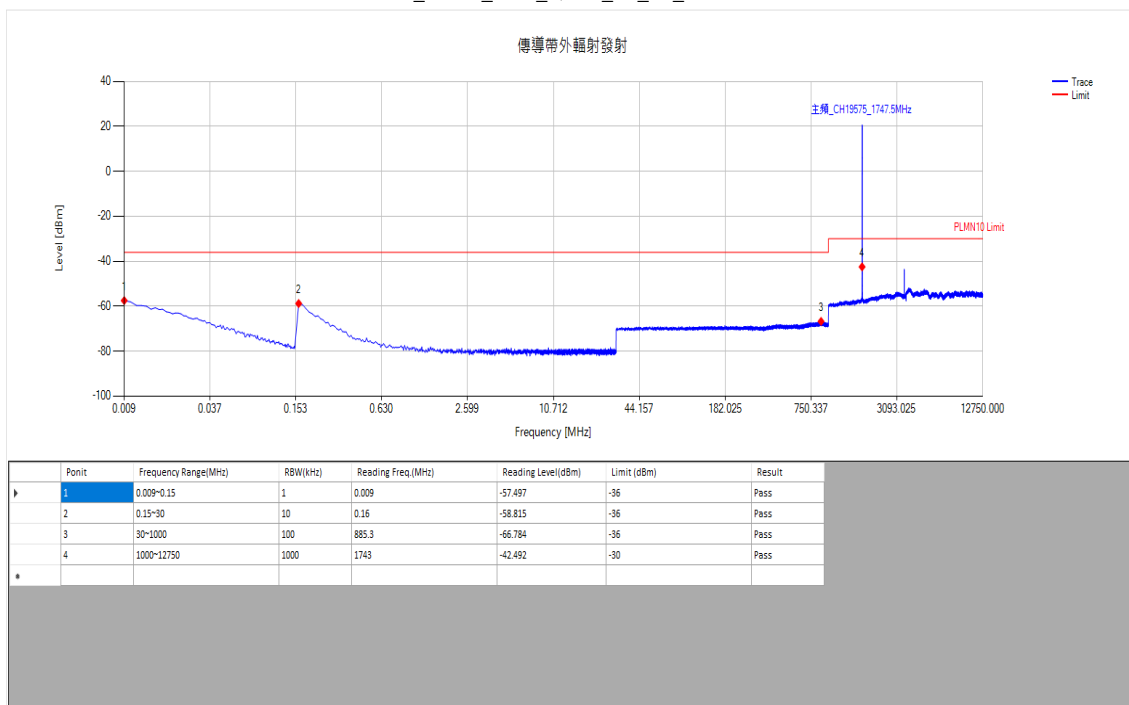
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LTE_Band3_1.4M_QPSK_R1_S0_CH19207



LTE_Band3_1.4M_QPSK_R1_S0_CH19575

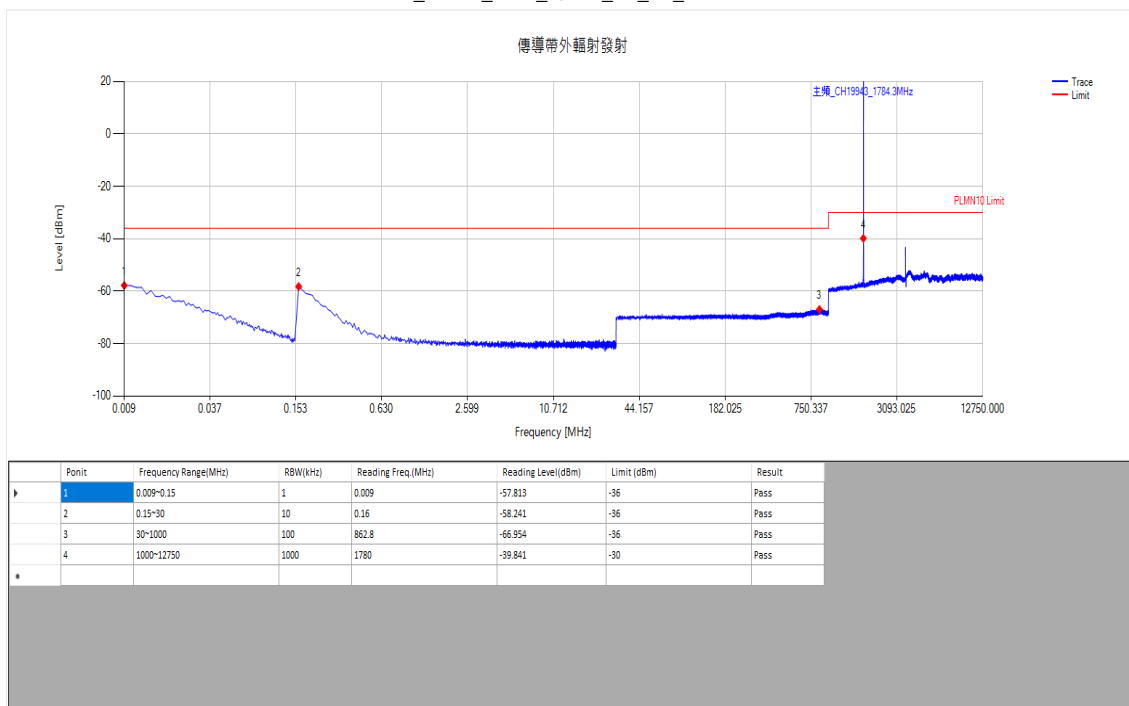


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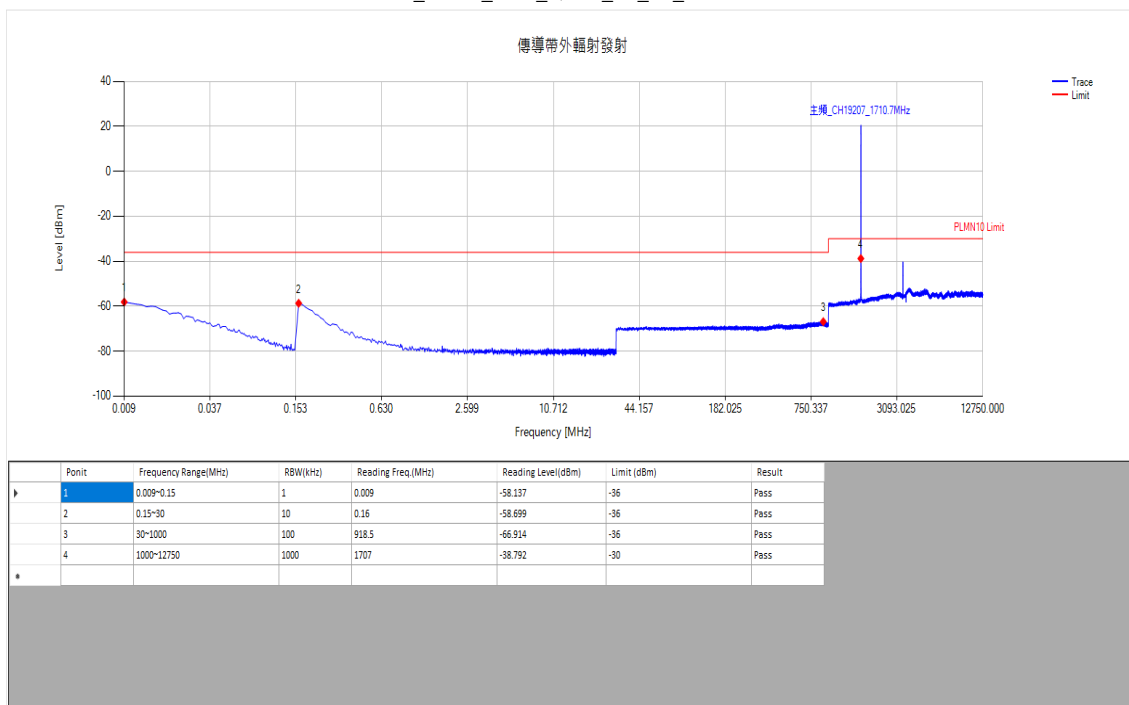
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LTE_Band3_1.4M_QPSK_R1_S0_CH19943



LTE_Band3_1.4M_QPSK_R1_S5_CH19207

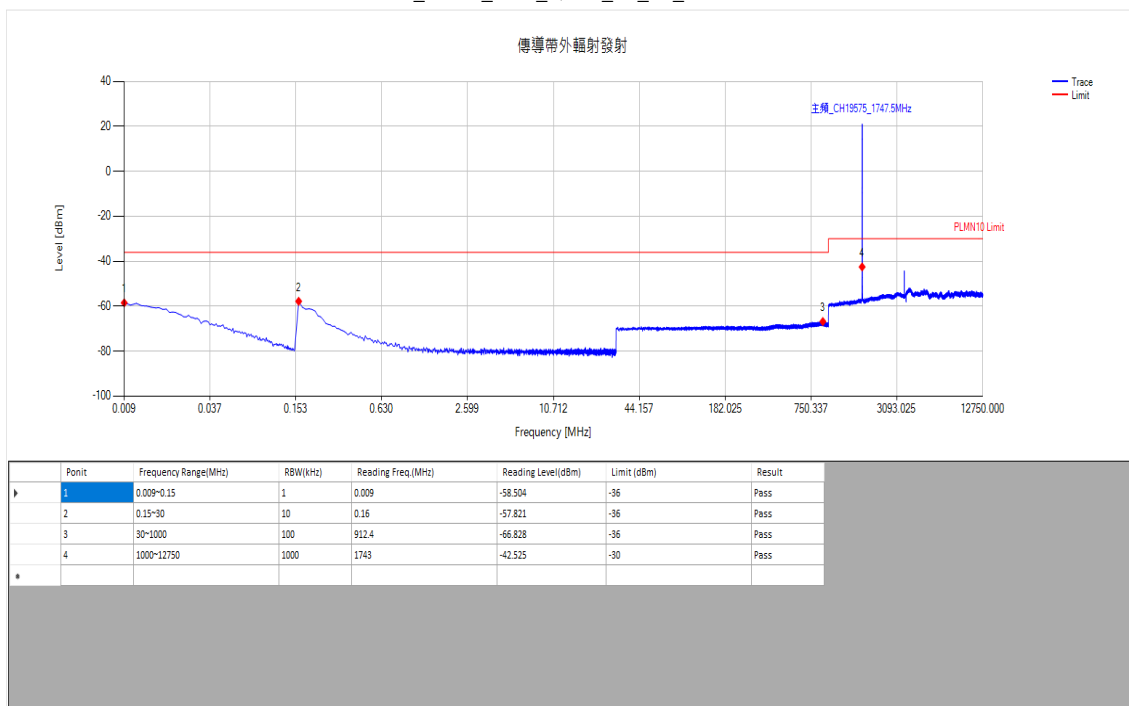


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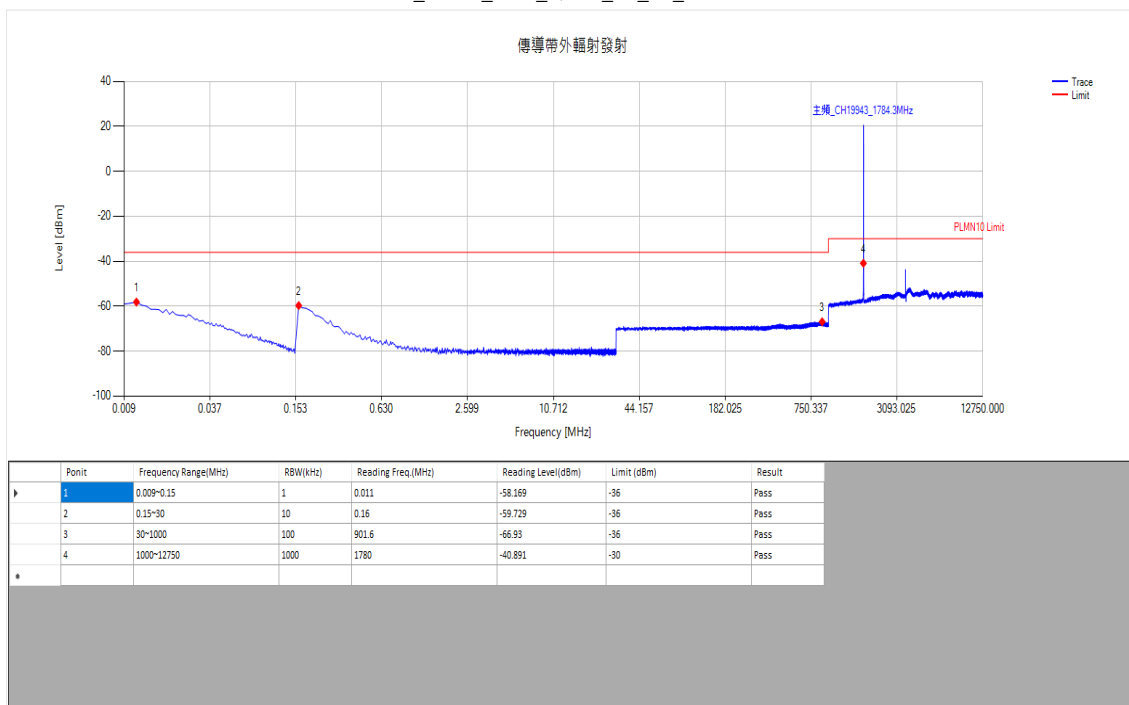
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LTE_Band3_1.4M_QPSK_R1_S5_CH19943

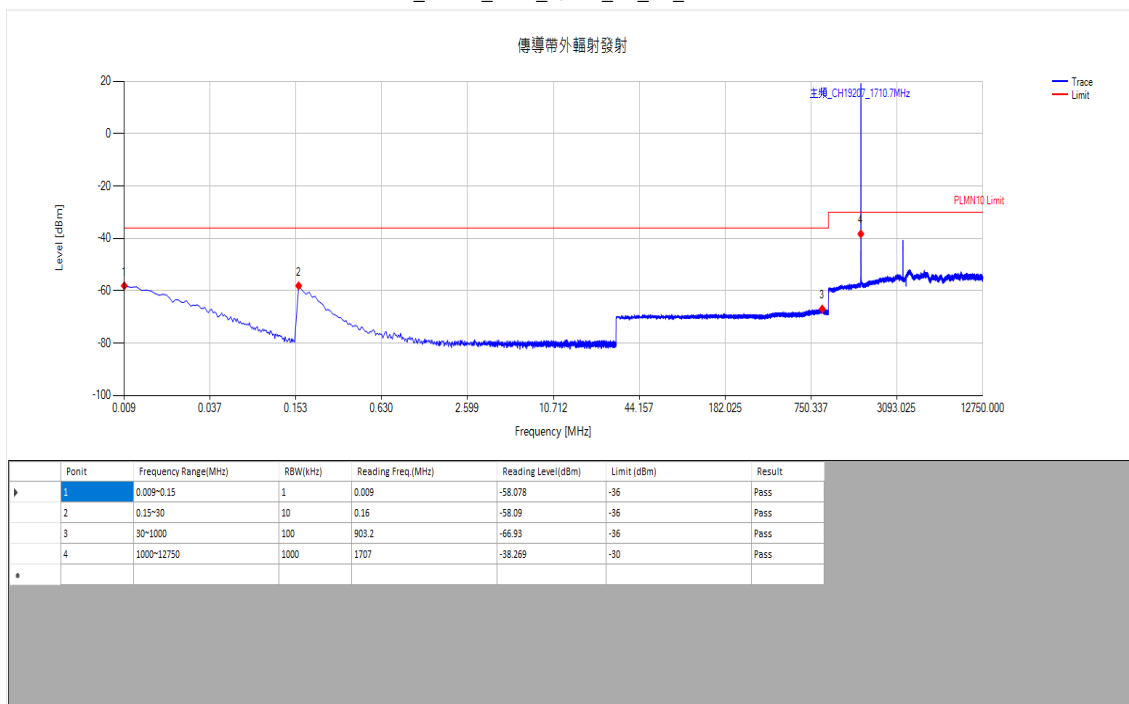


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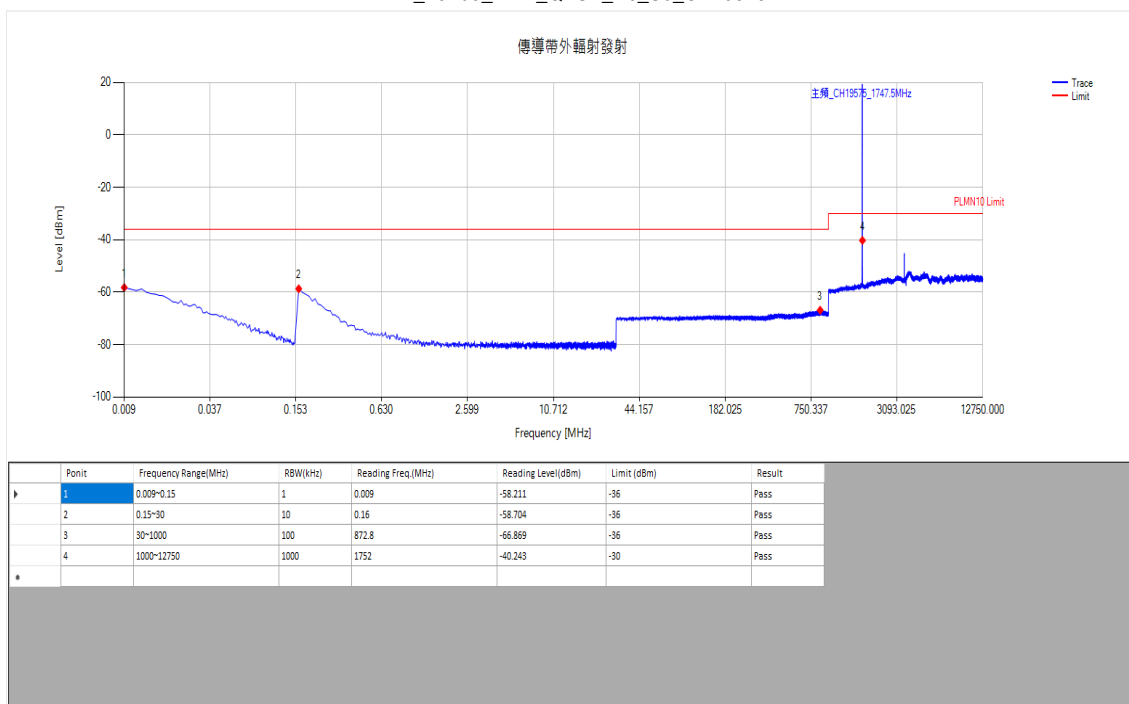
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LTE_Band3_1.4M_QPSK_R6_S0_CH19575

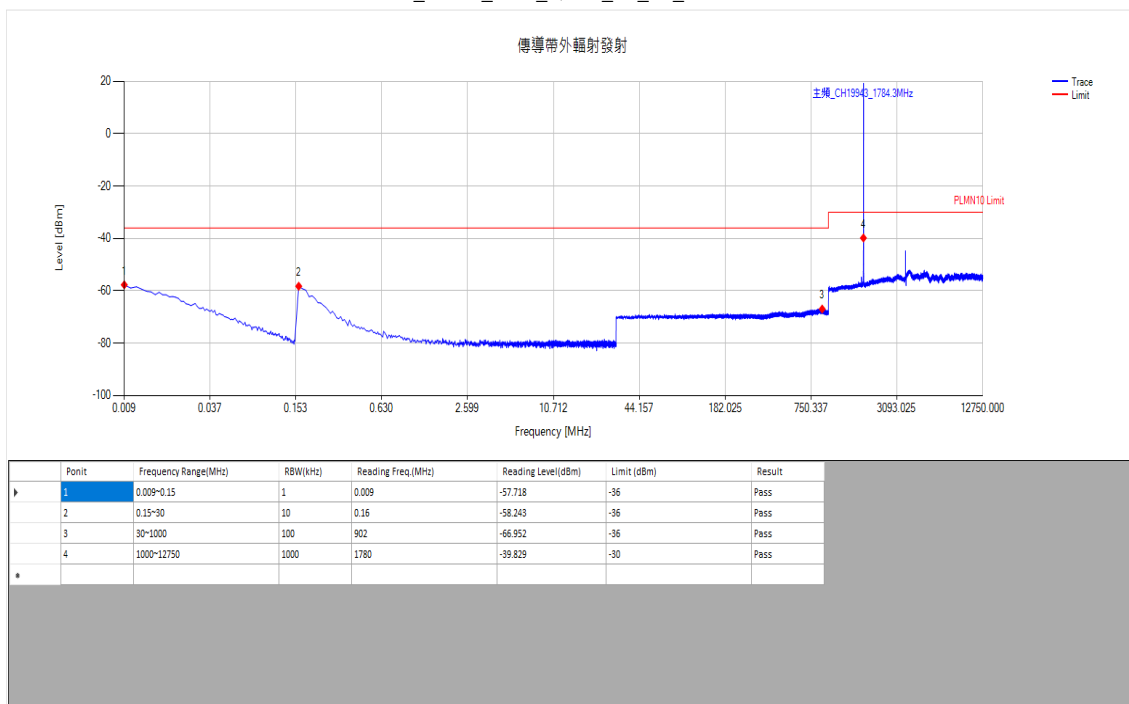


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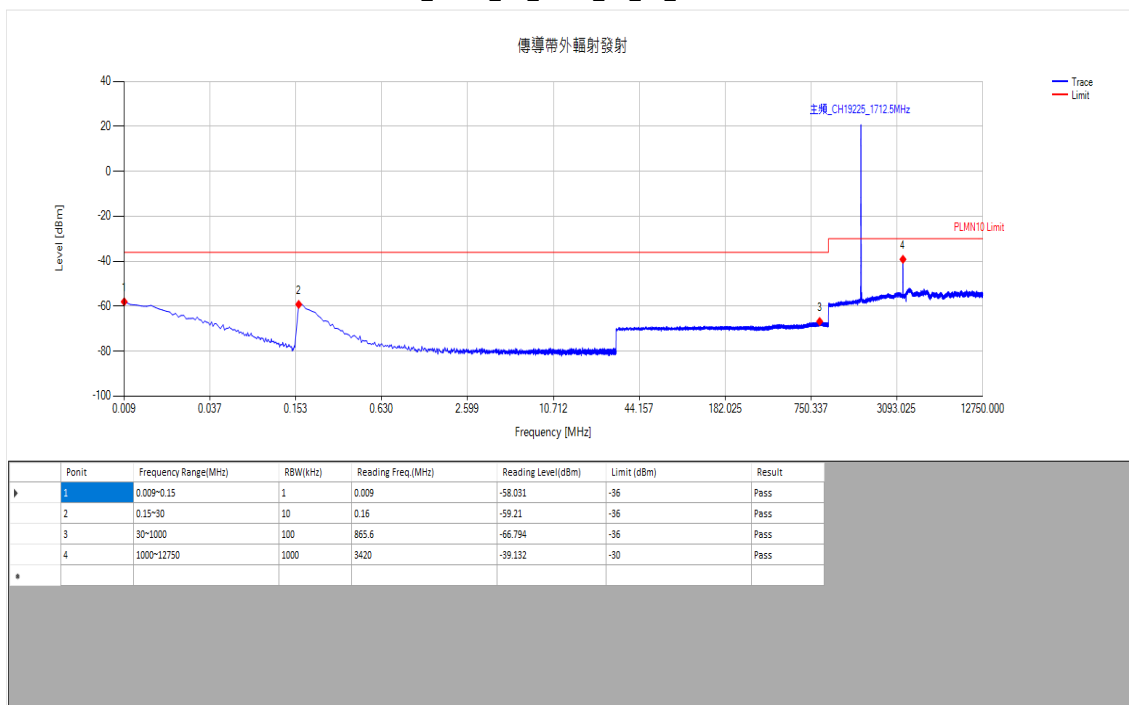
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LTE_Band3_1.4M_QPSK_R6_S0_CH19943



LTE_Band3_5M_QPSK_R1_S0_CH19225

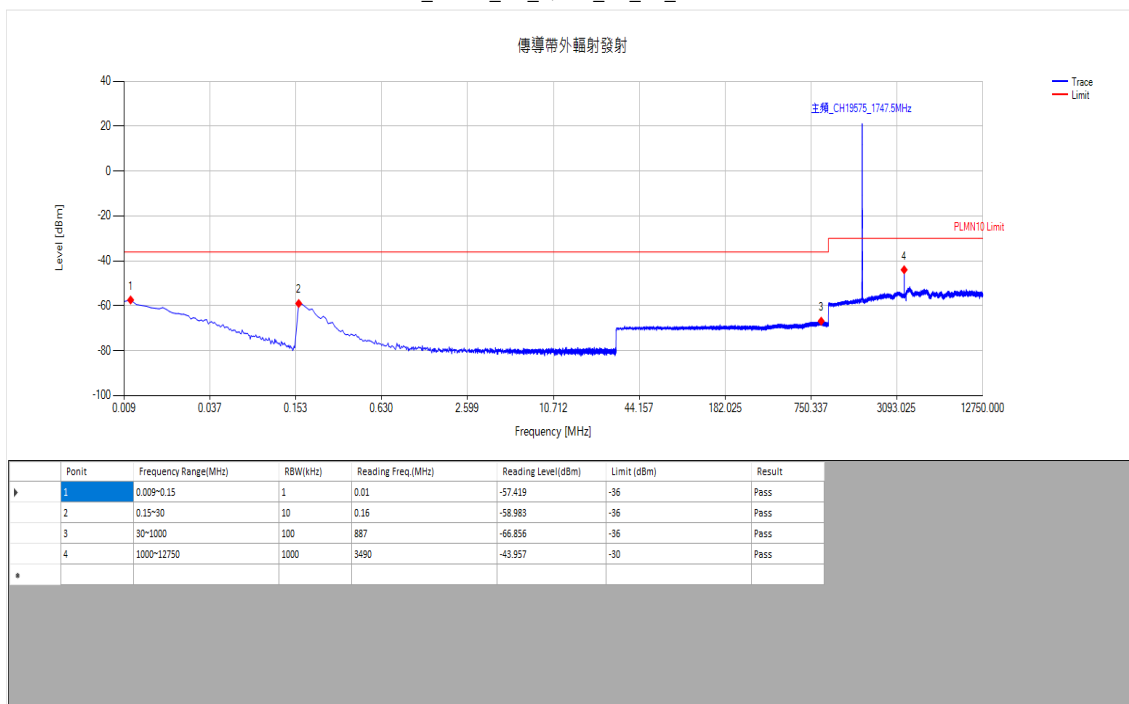


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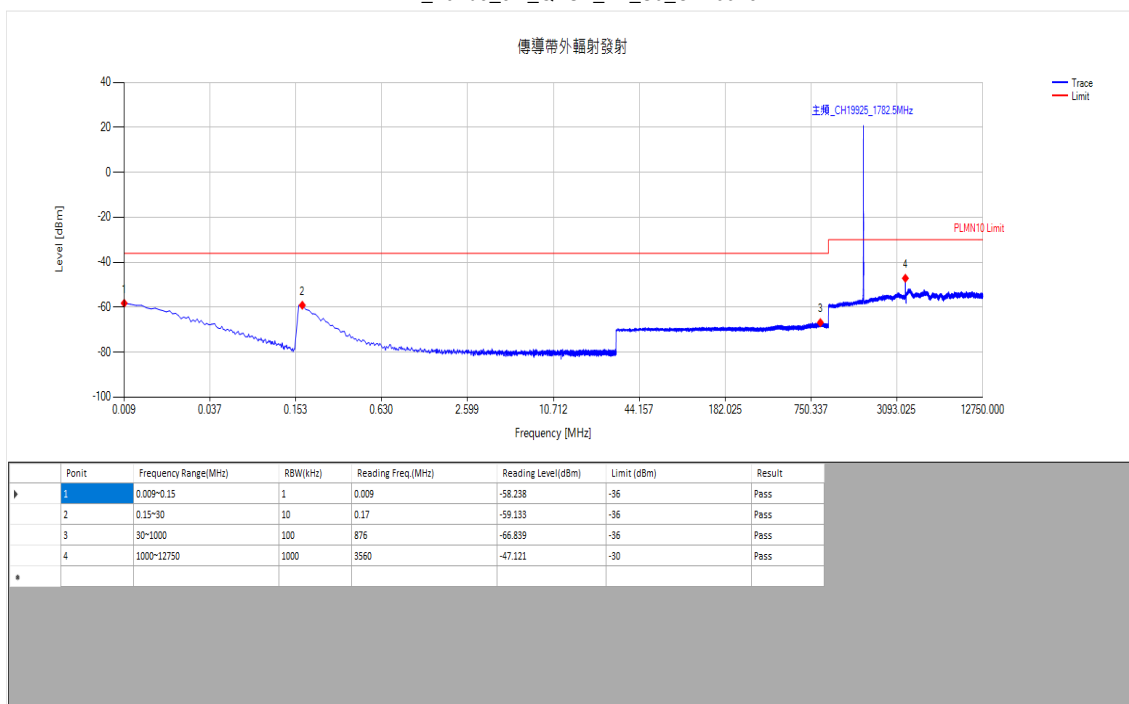
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LTE_Band3_5M_QPSK_R1_S0_CH19575



LTE_Band3_5M_QPSK_R1_S0_CH19925

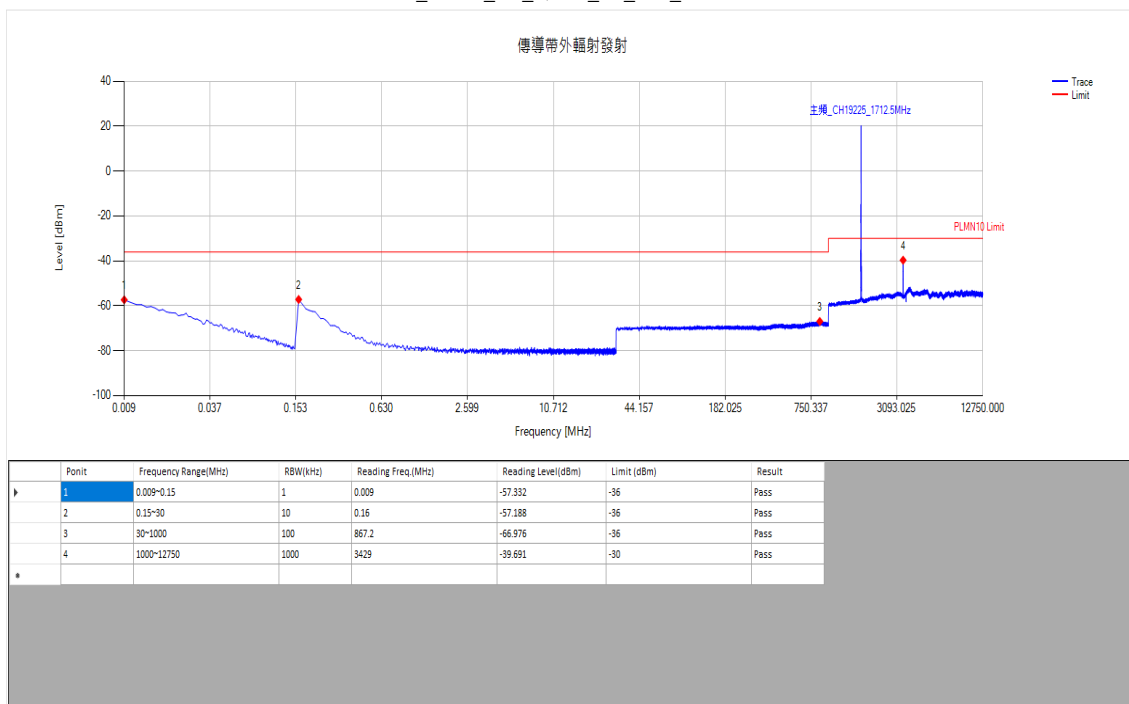


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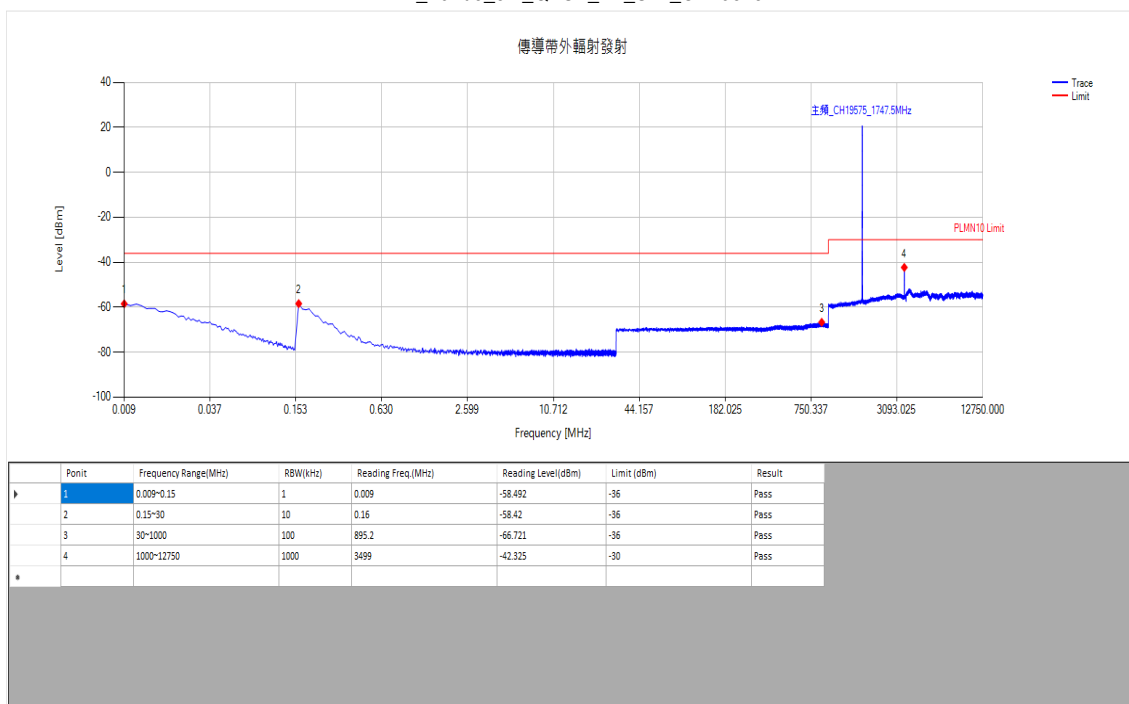
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LTE_Band3_5M_QPSK_R1_S24_CH19225



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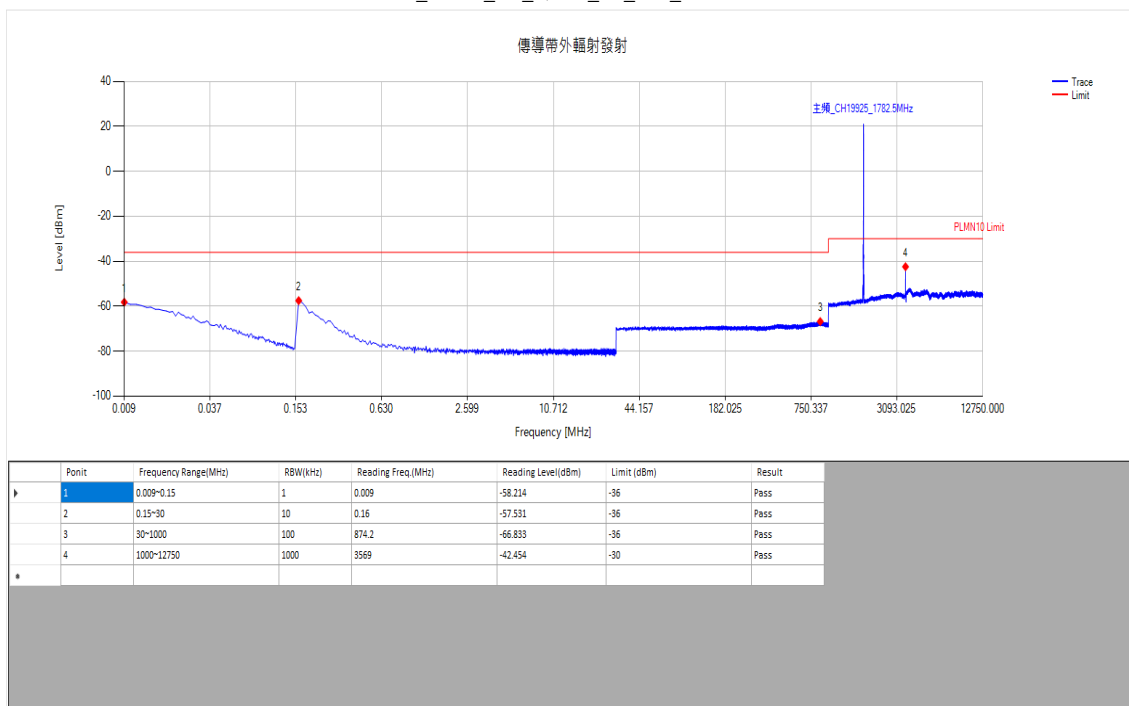


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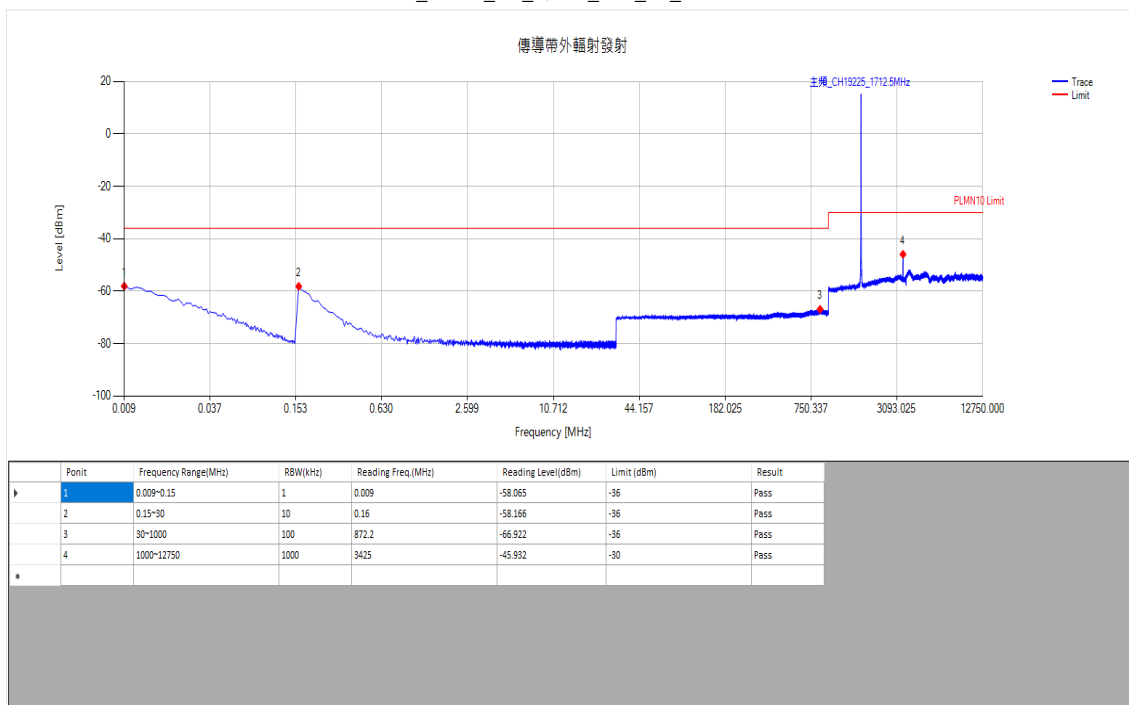
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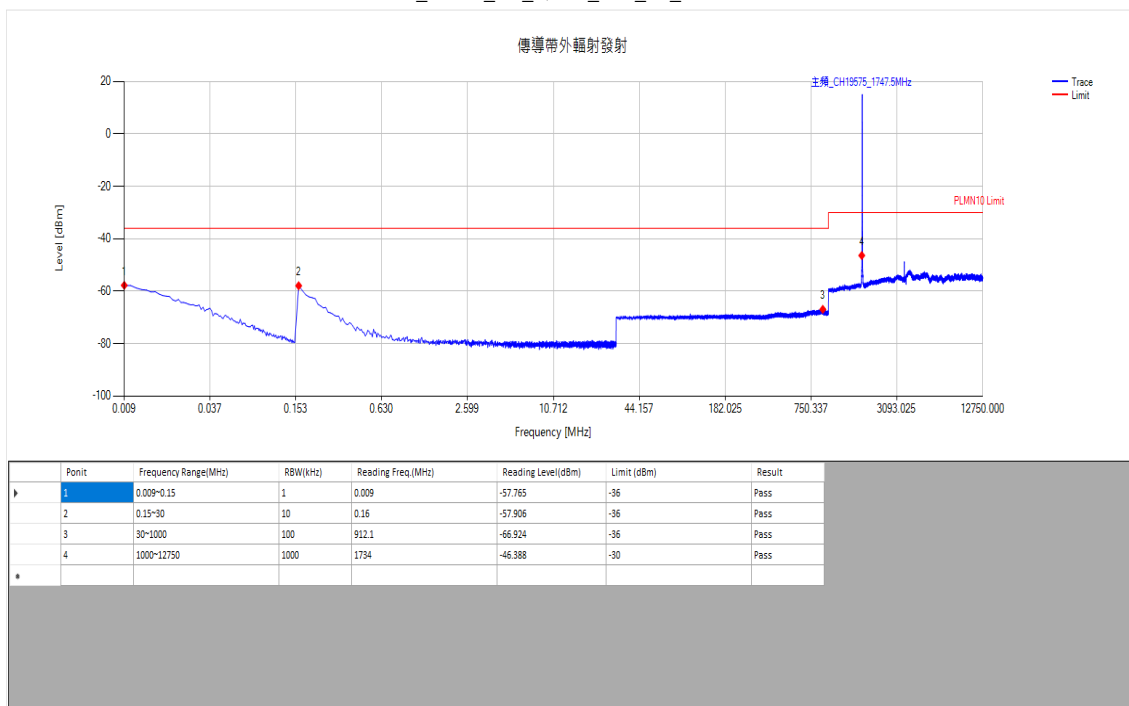


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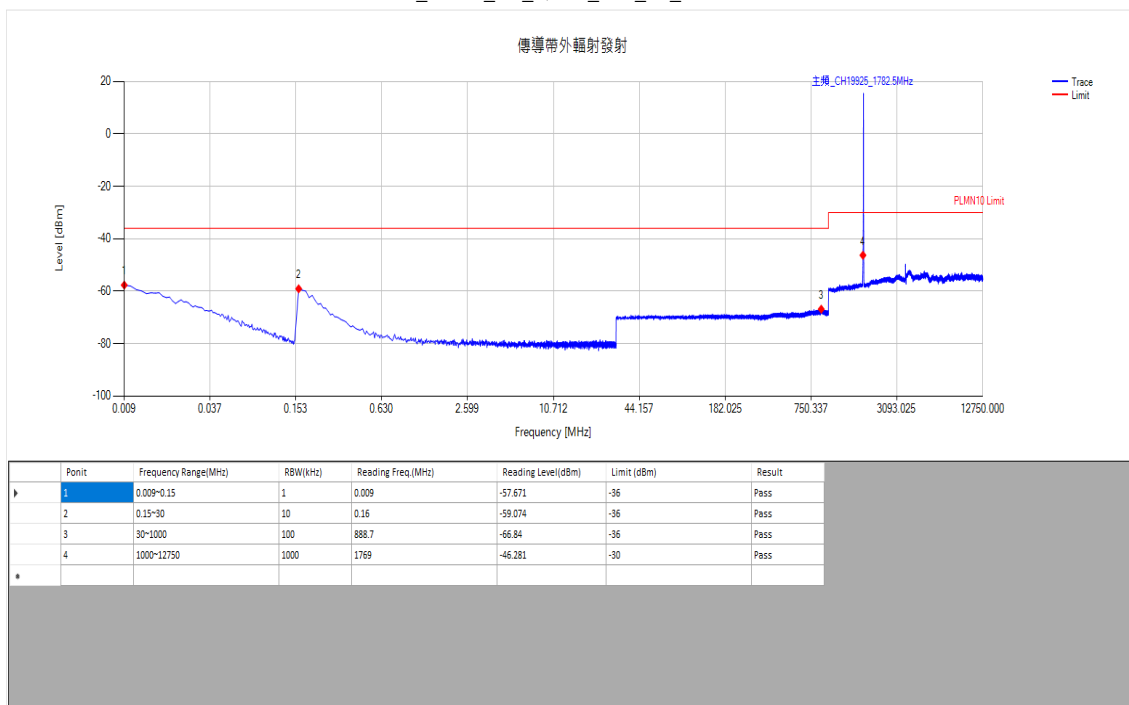
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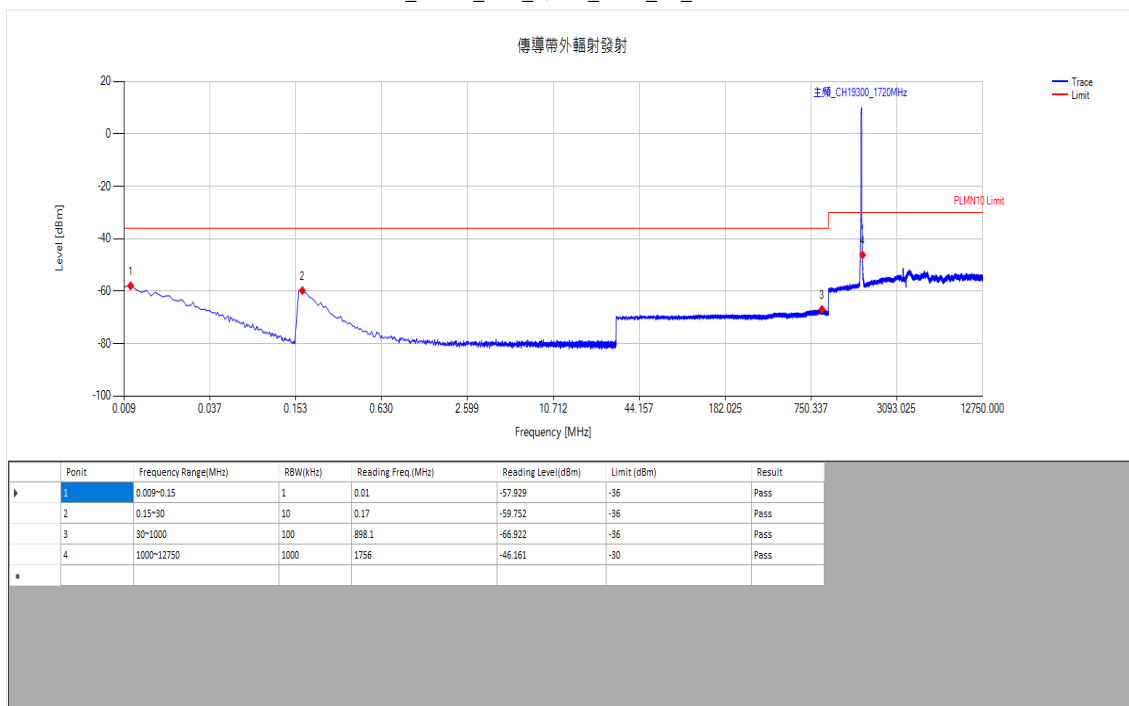


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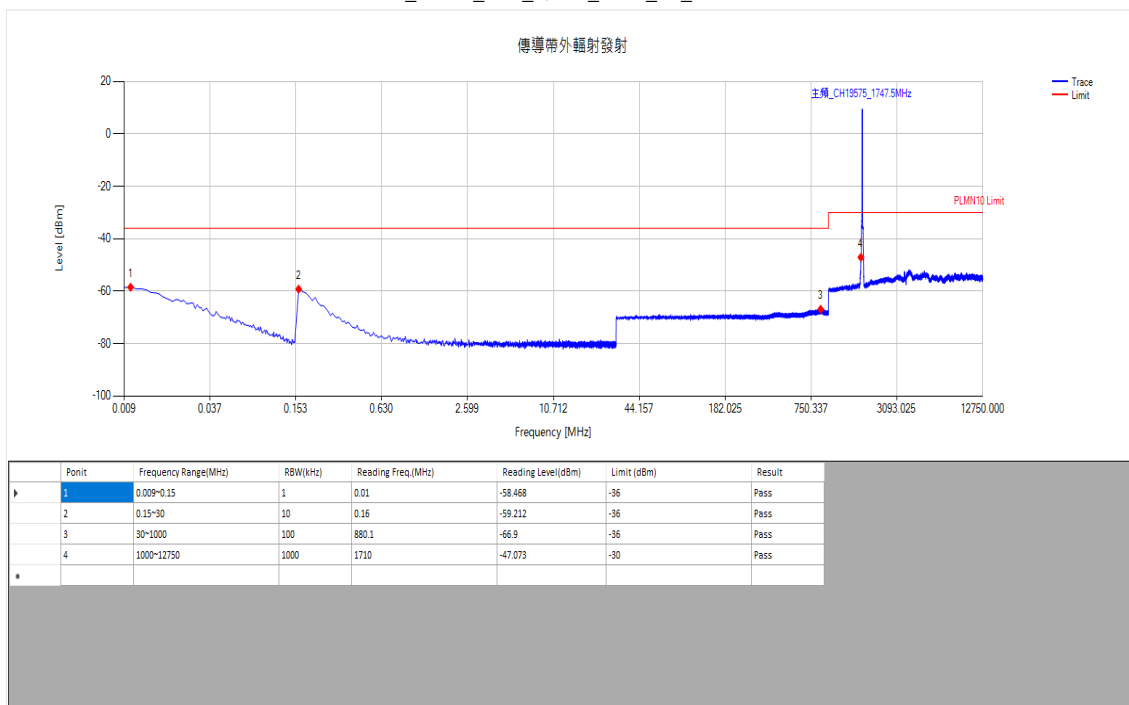
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LTE_Band3_20M_QPSK_R100_S0_CH19300



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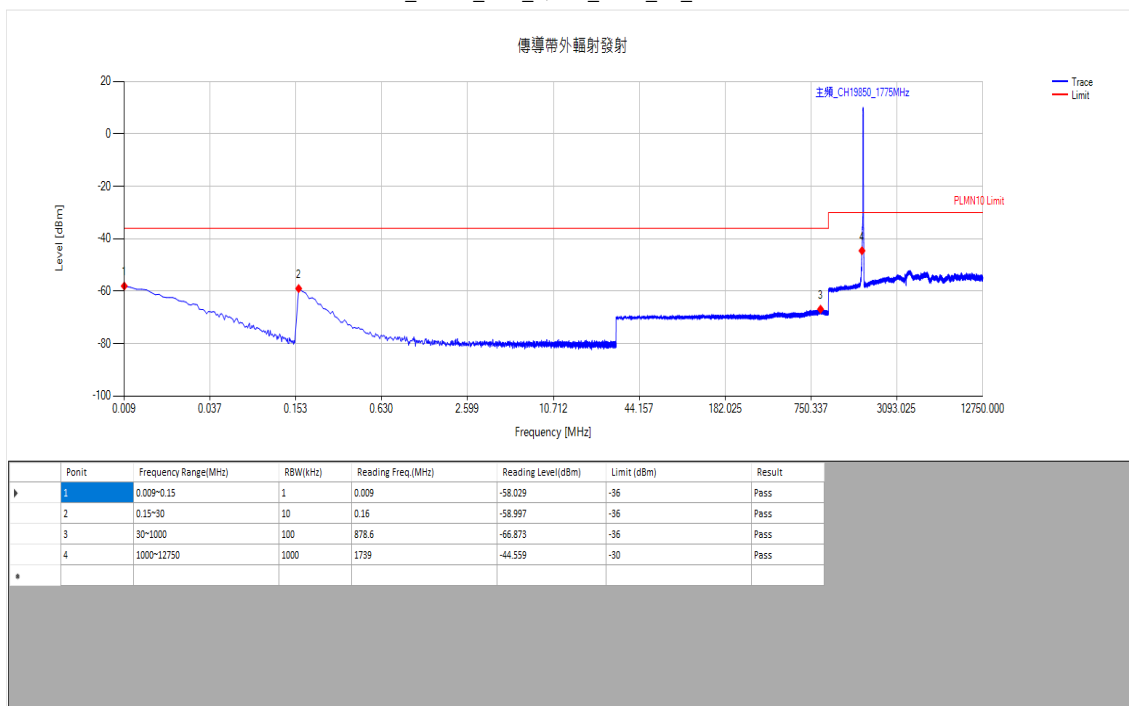


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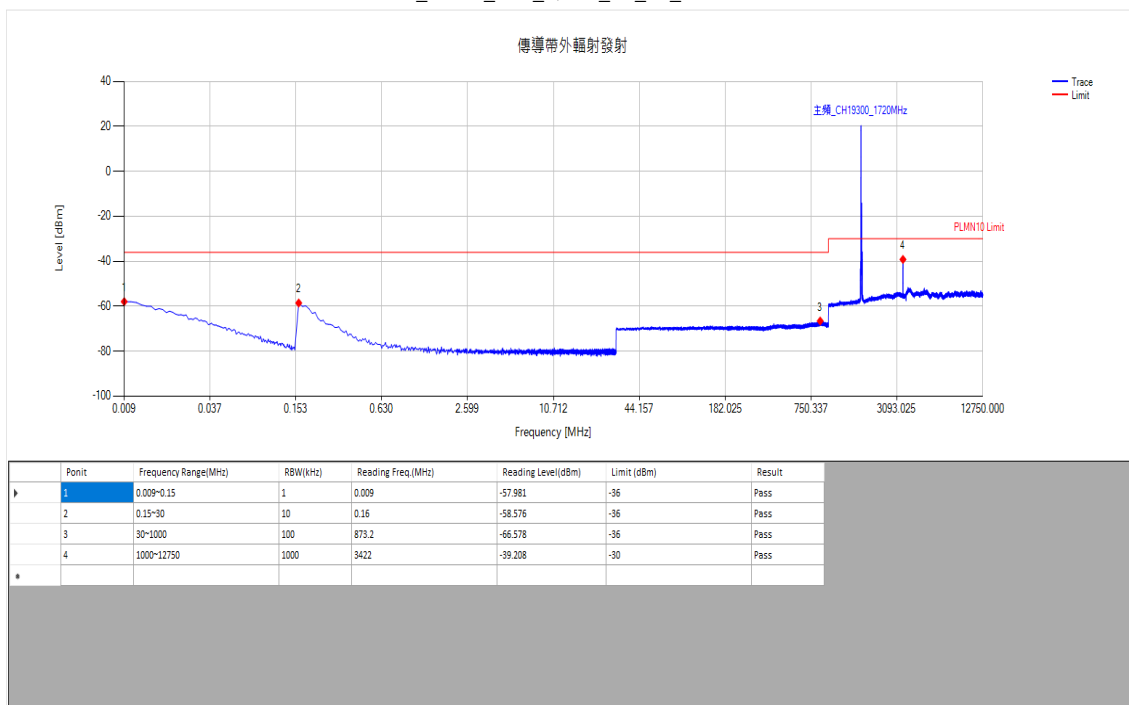
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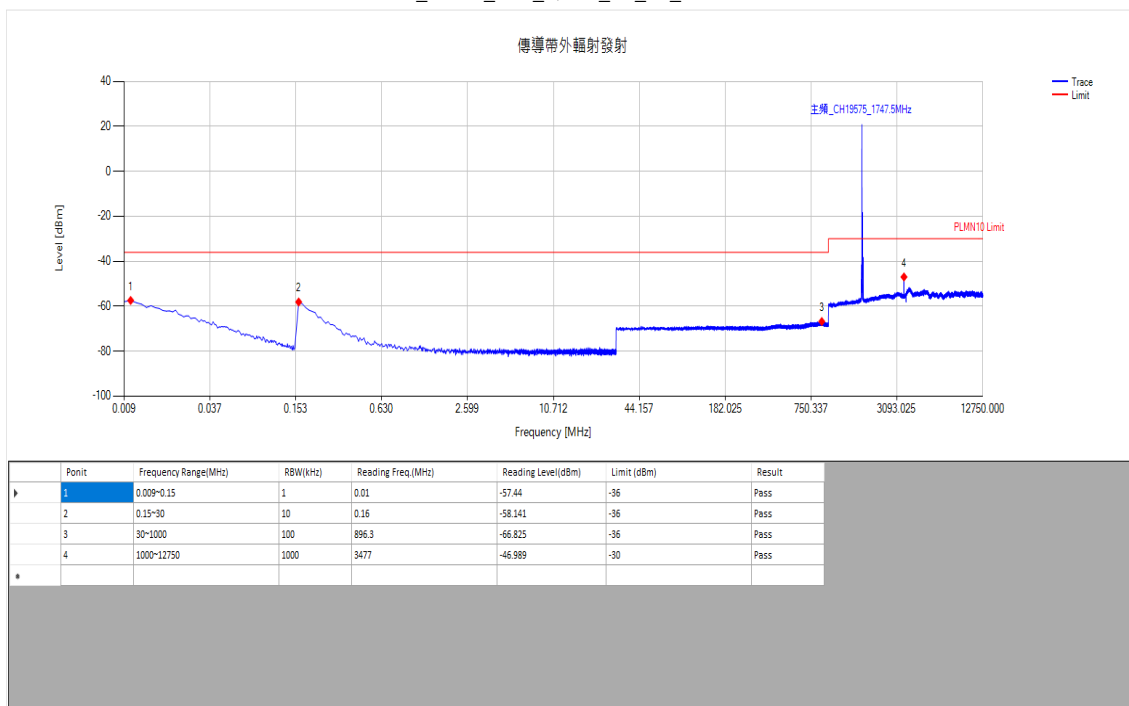


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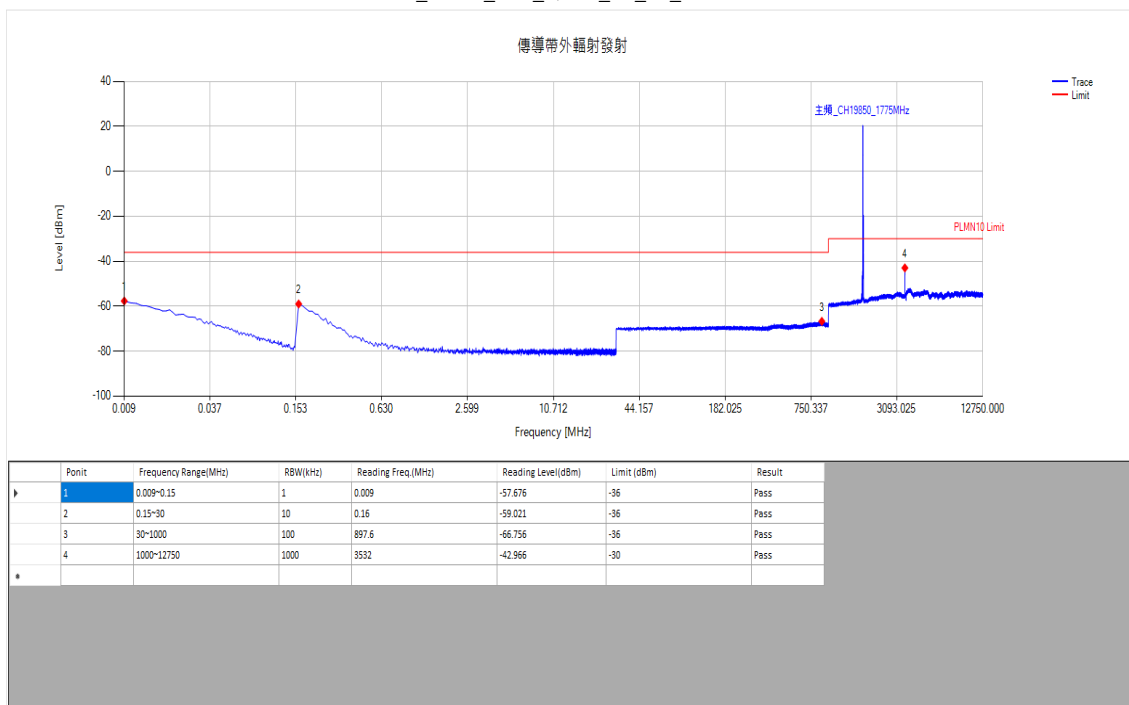
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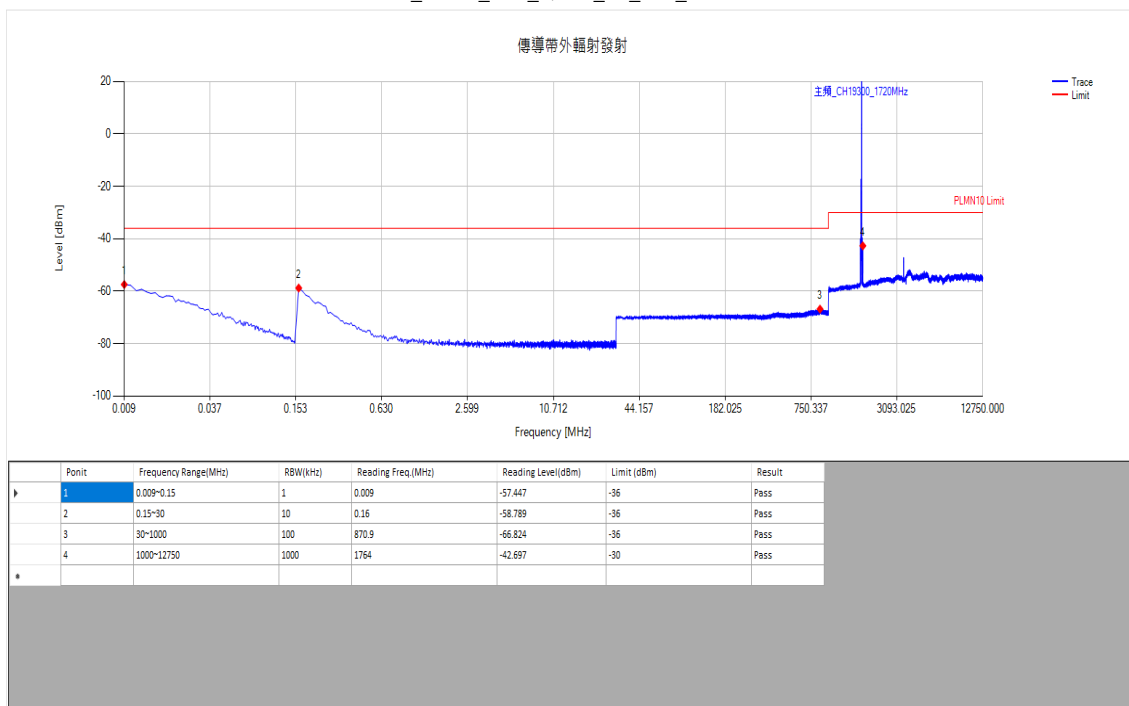


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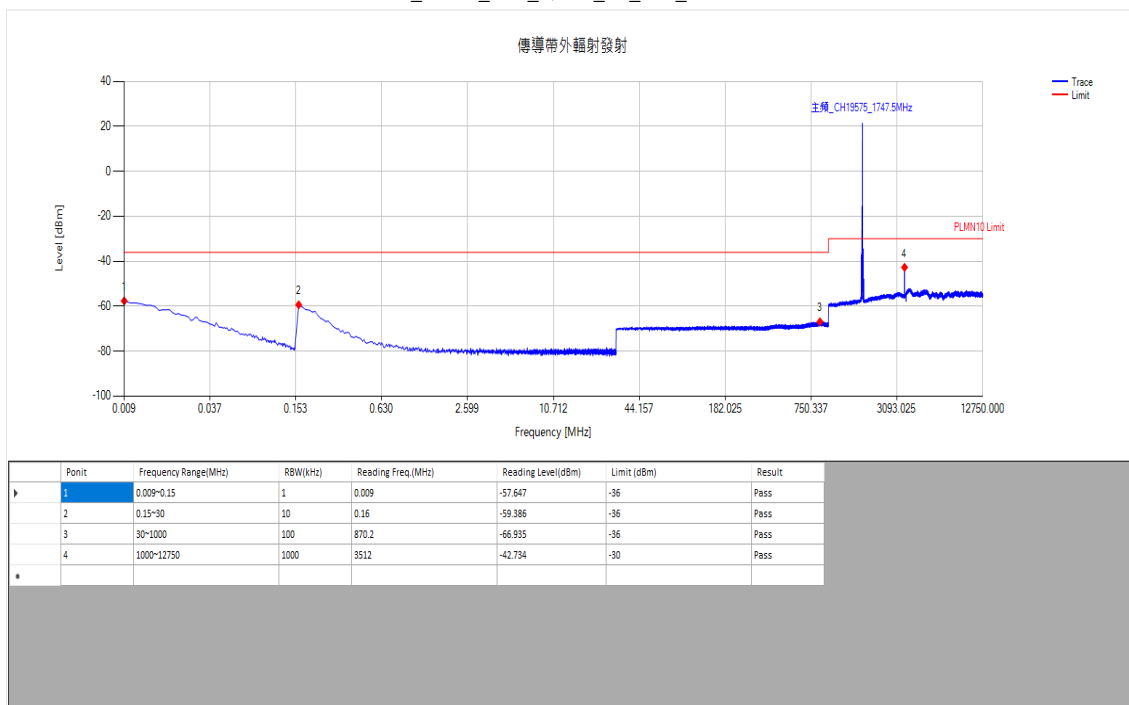
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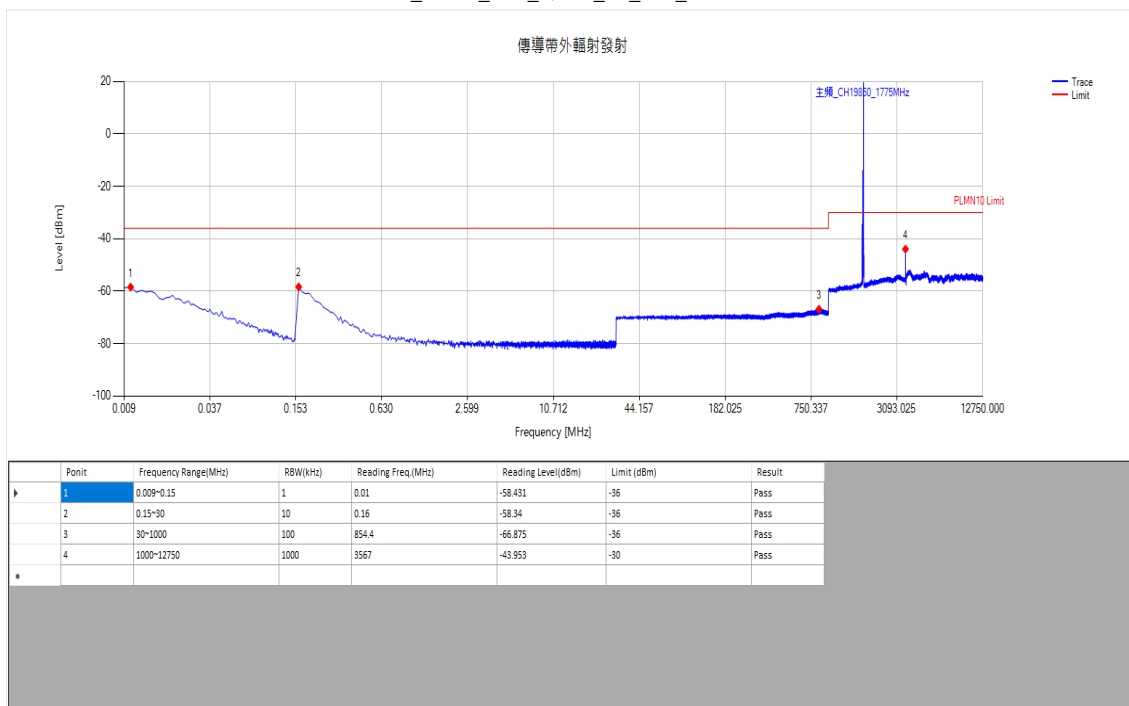


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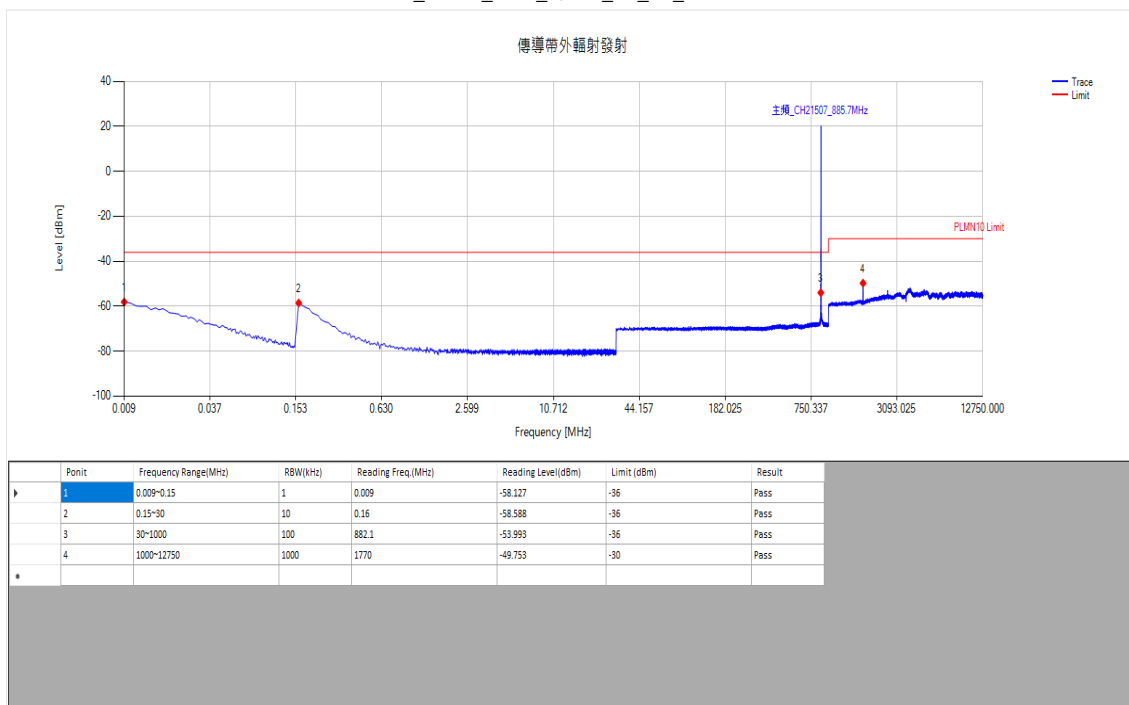
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LTE_Band8_1.4M_QPSK_R1_S0_CH21507

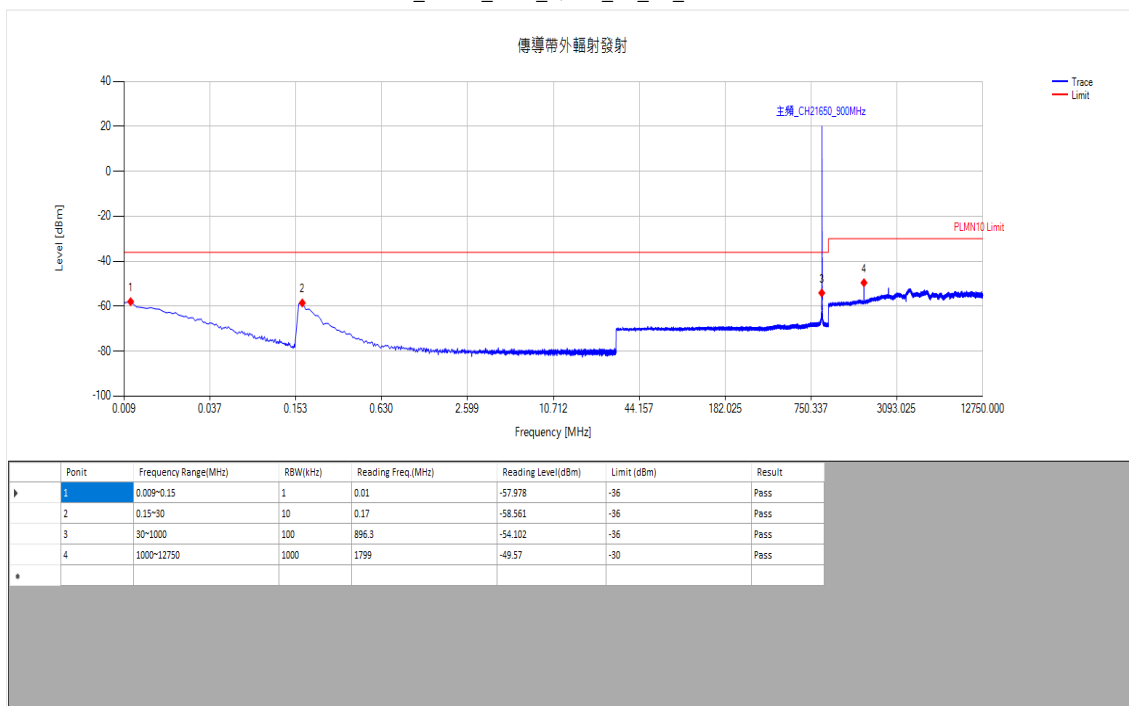


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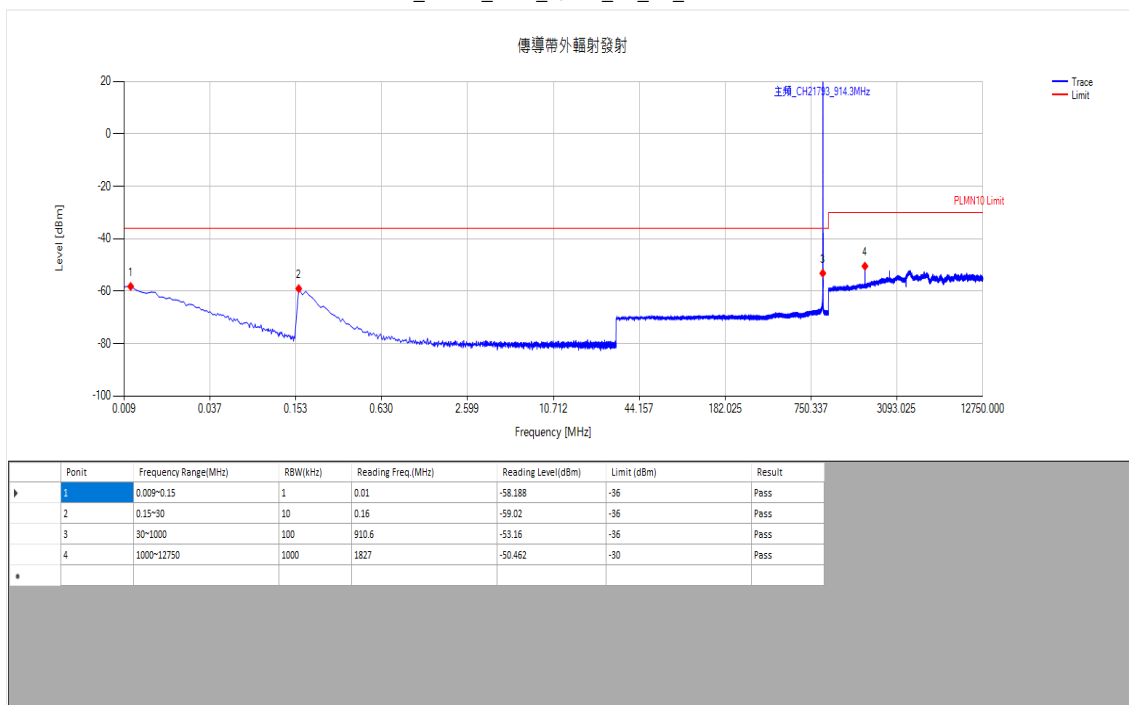
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LTE_Band8_1.4M_QPSK_R1_S0_CH21793

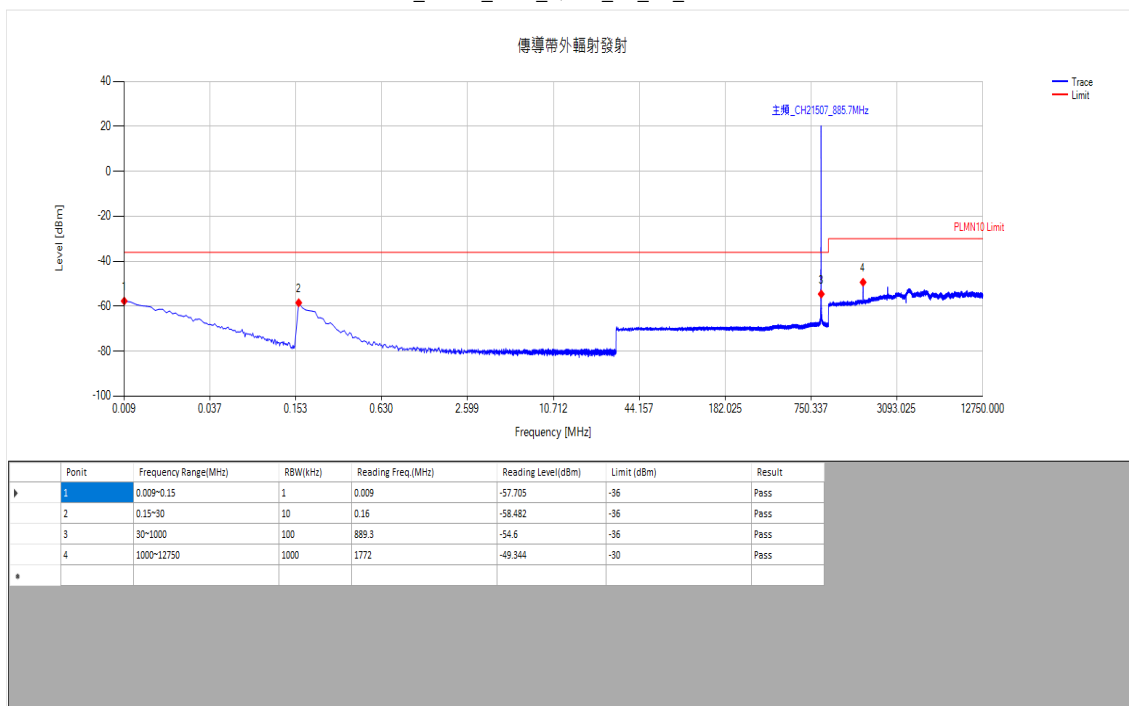


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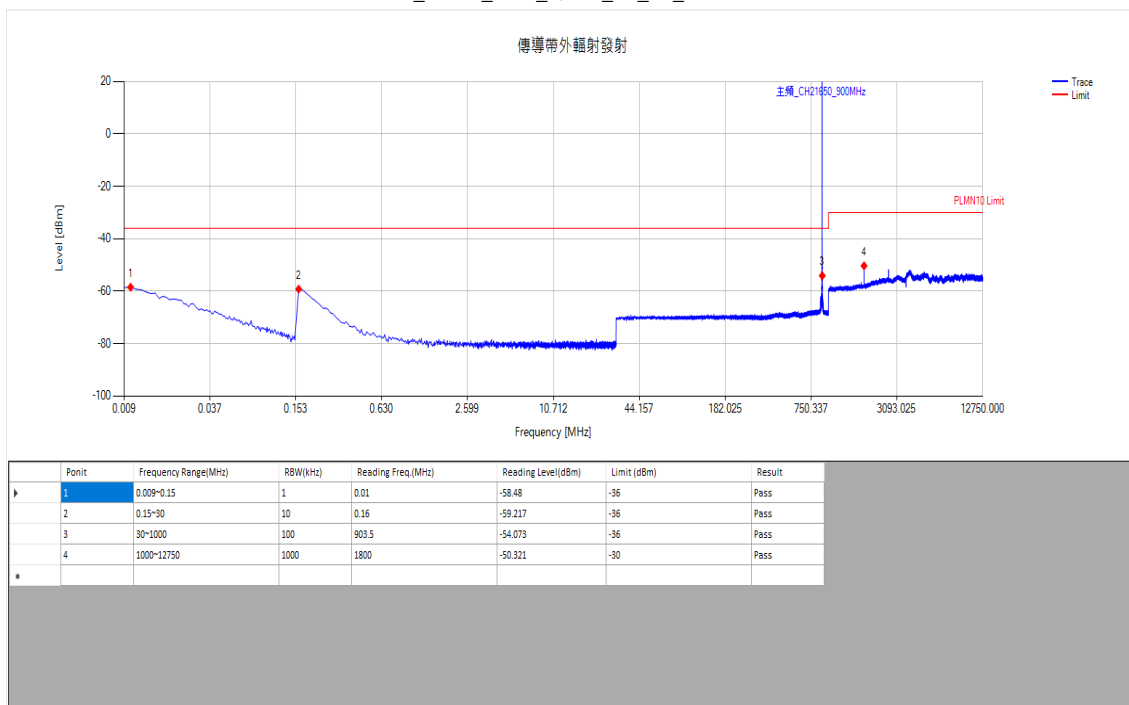
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LTE_Band8_1.4M_QPSK_R1_S5_CH21650

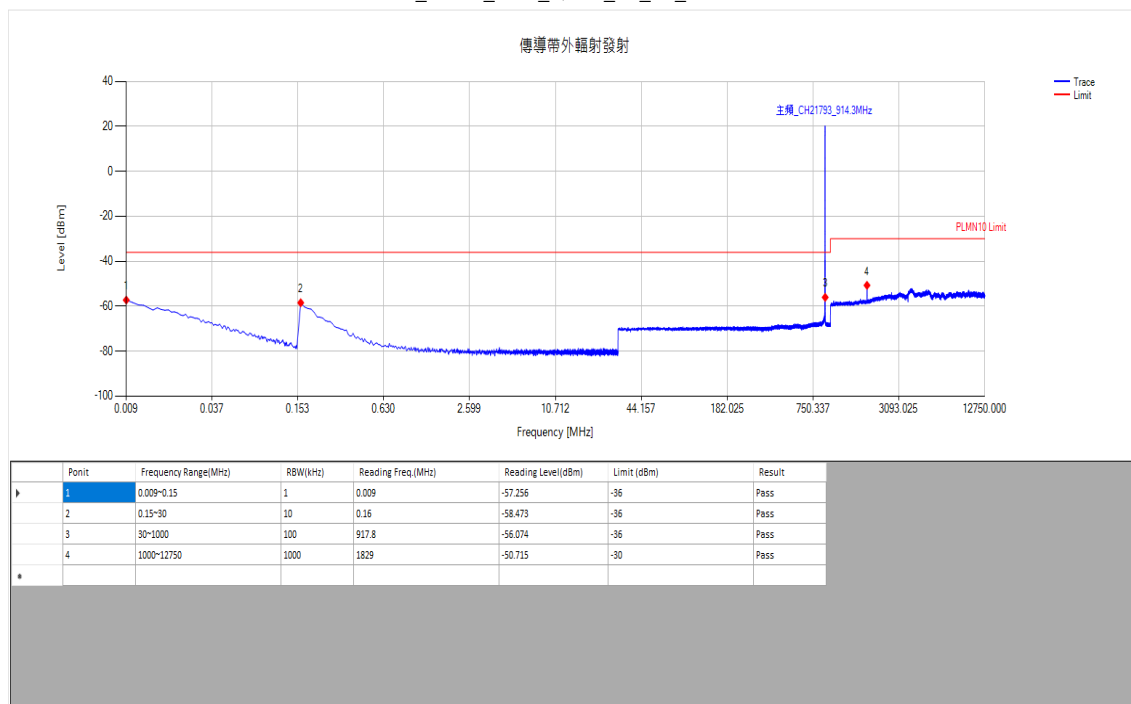


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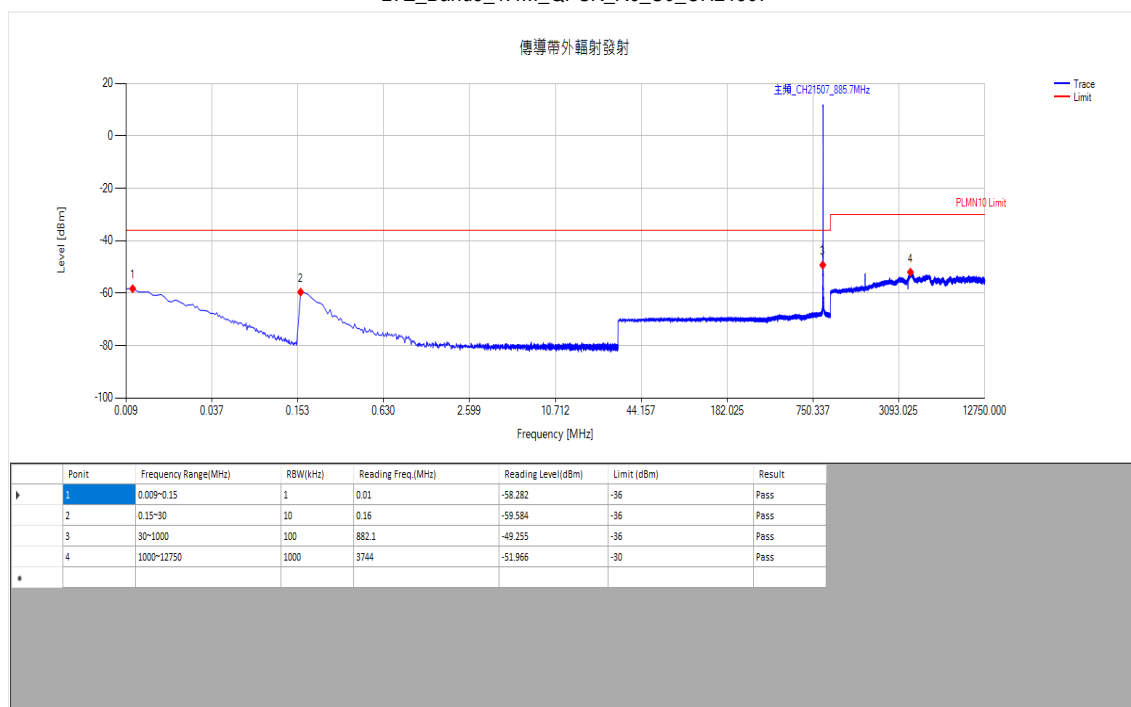
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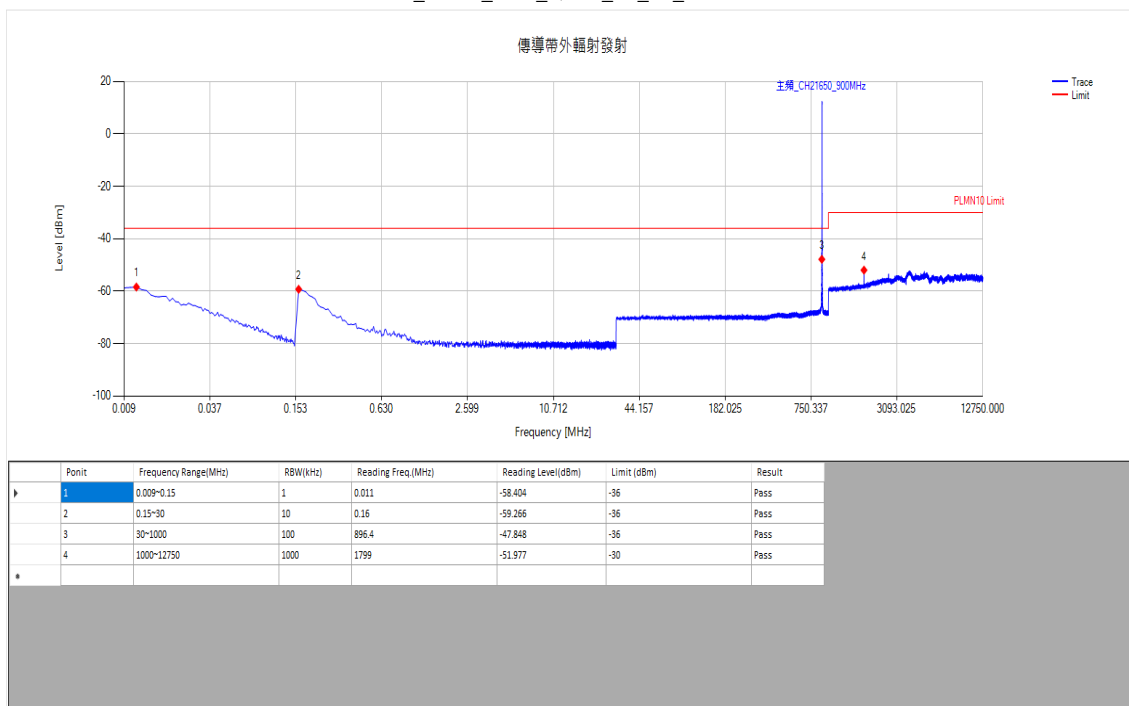


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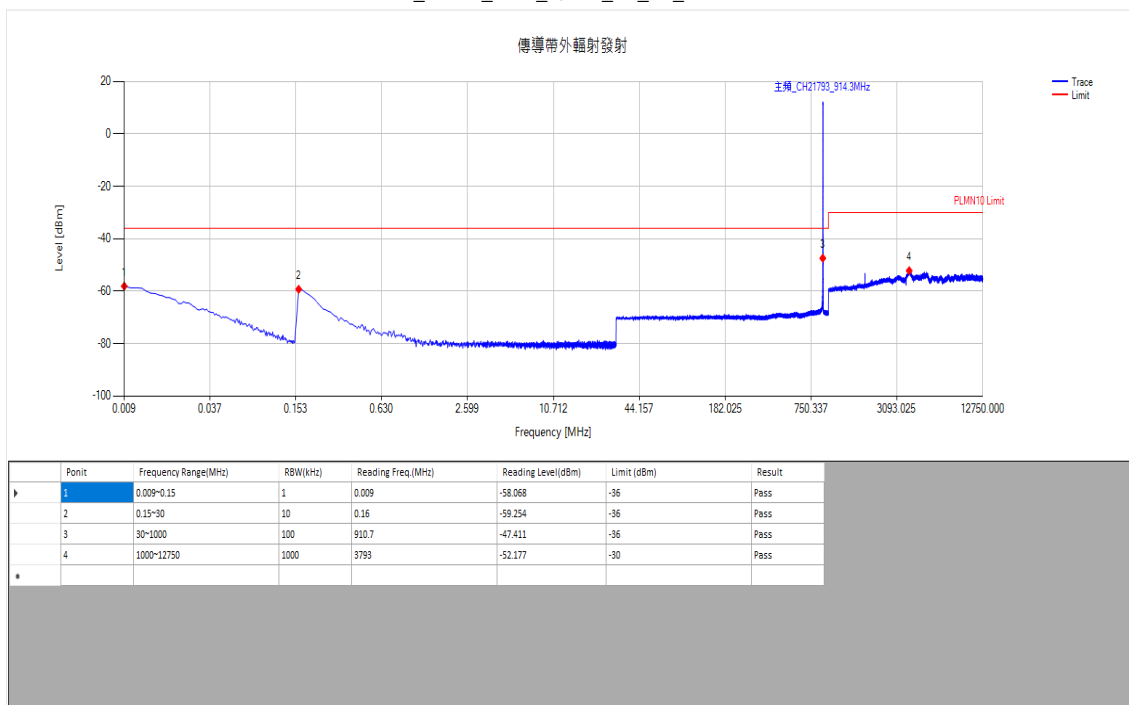
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LTE_Band8_1.4M_QPSK_R6_S0_CH21793

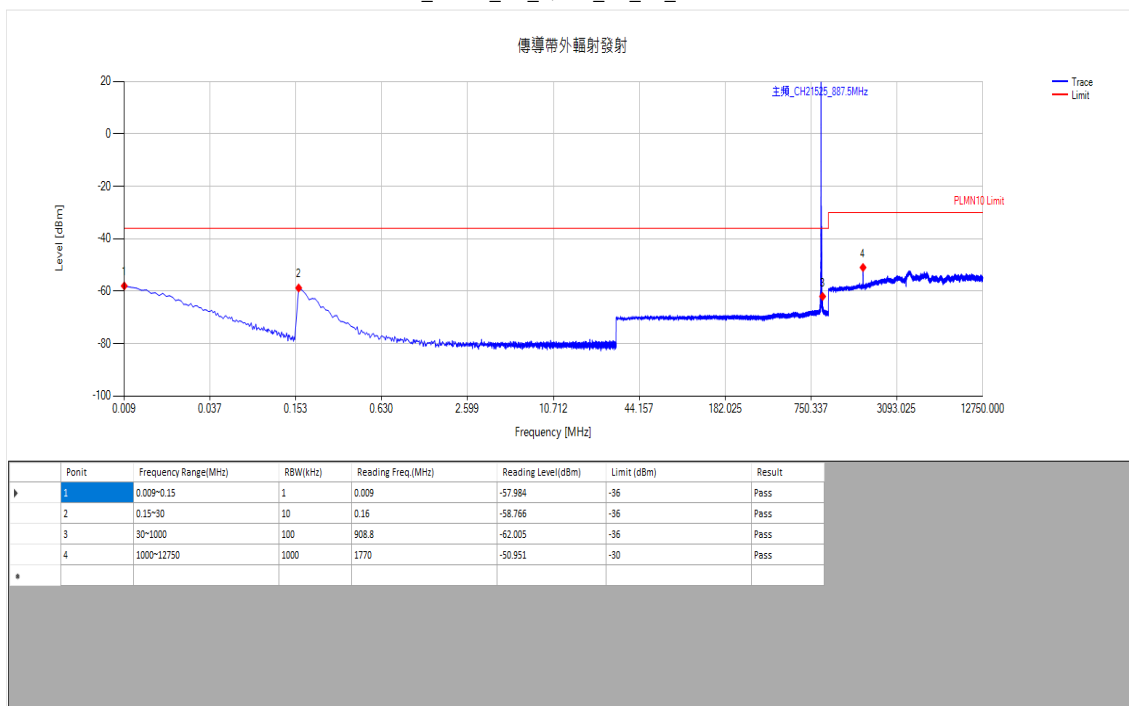


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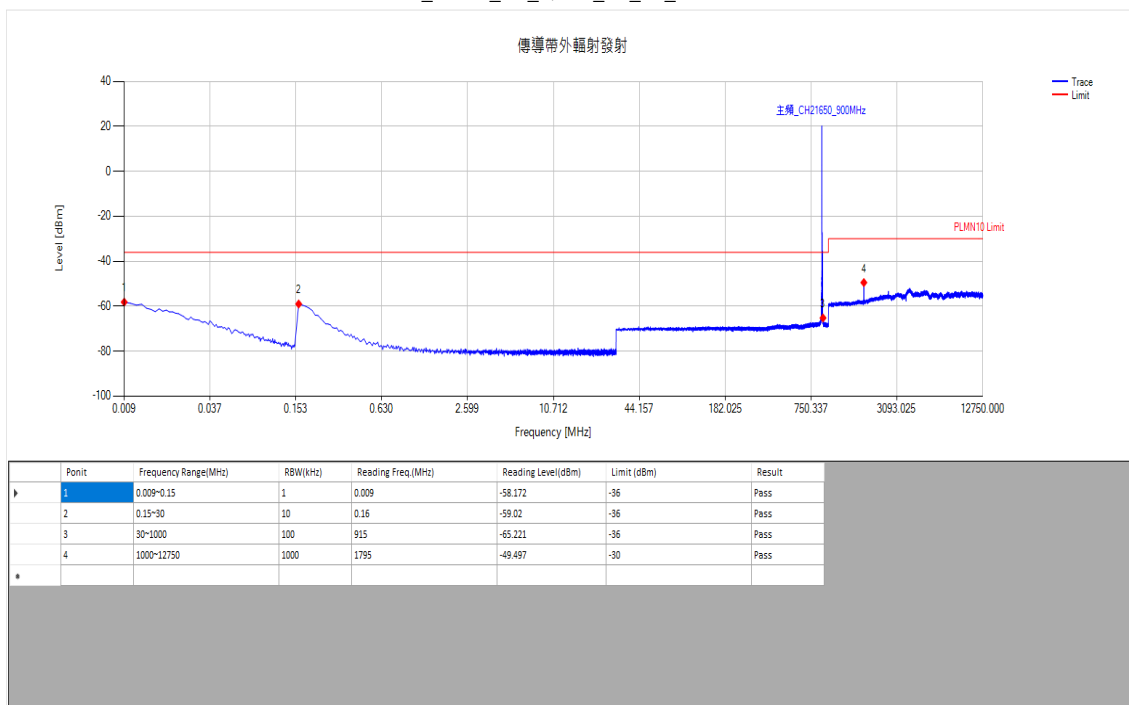
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LTE_Band8_5M_QPSK_R1_S0_CH21650

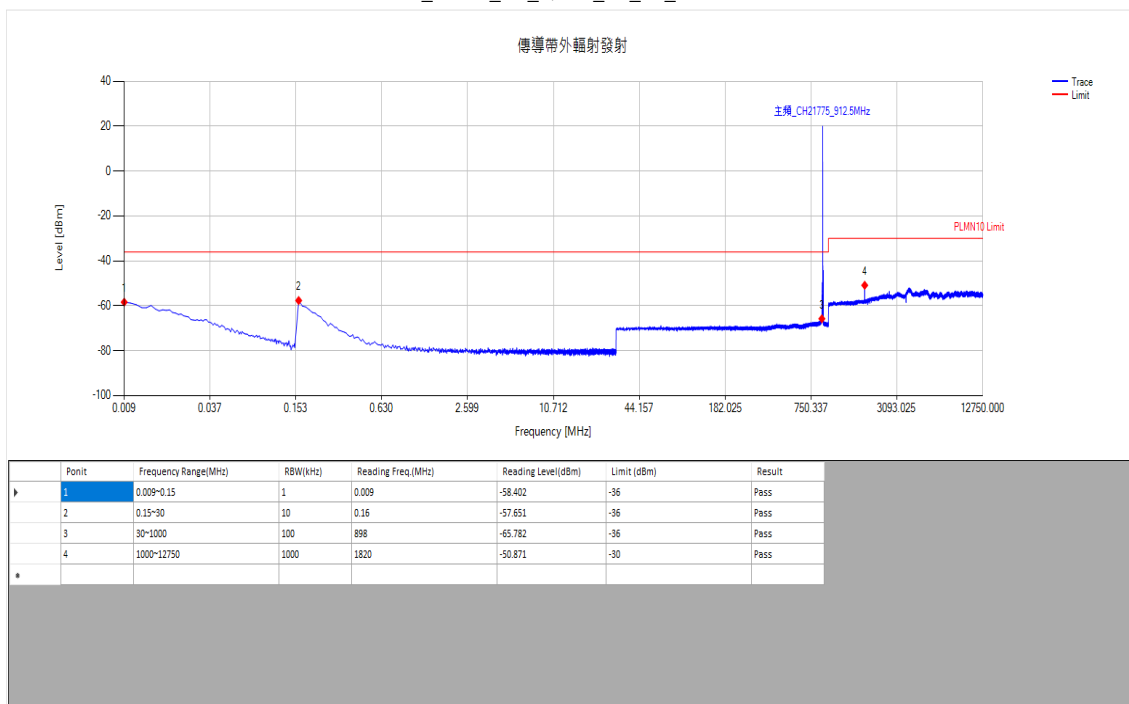


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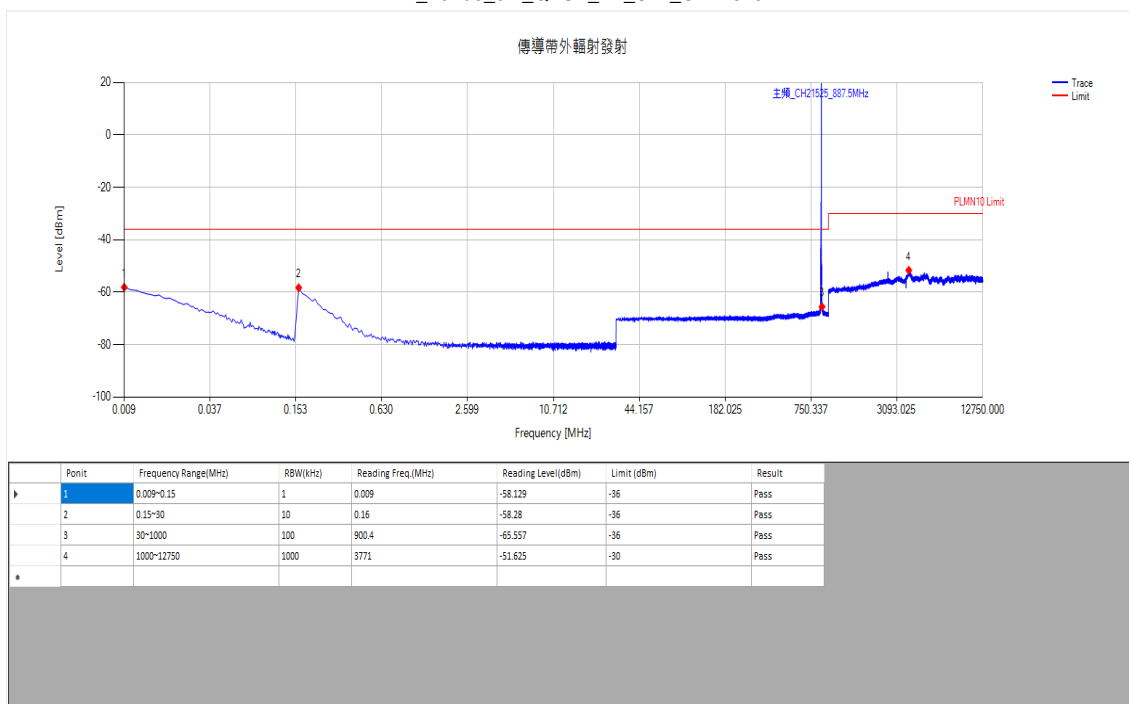
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LTE_Band8_5M_QPSK_R1_S0_CH21775



LTE_Band8_5M_QPSK_R1_S24_CH21525

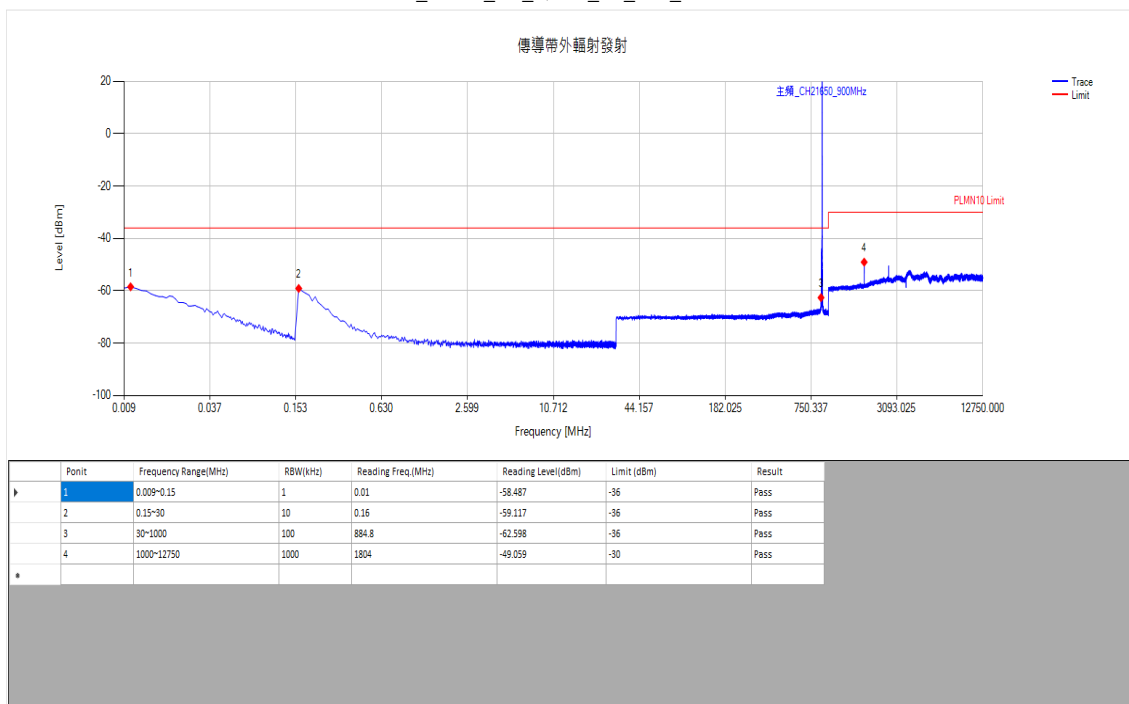


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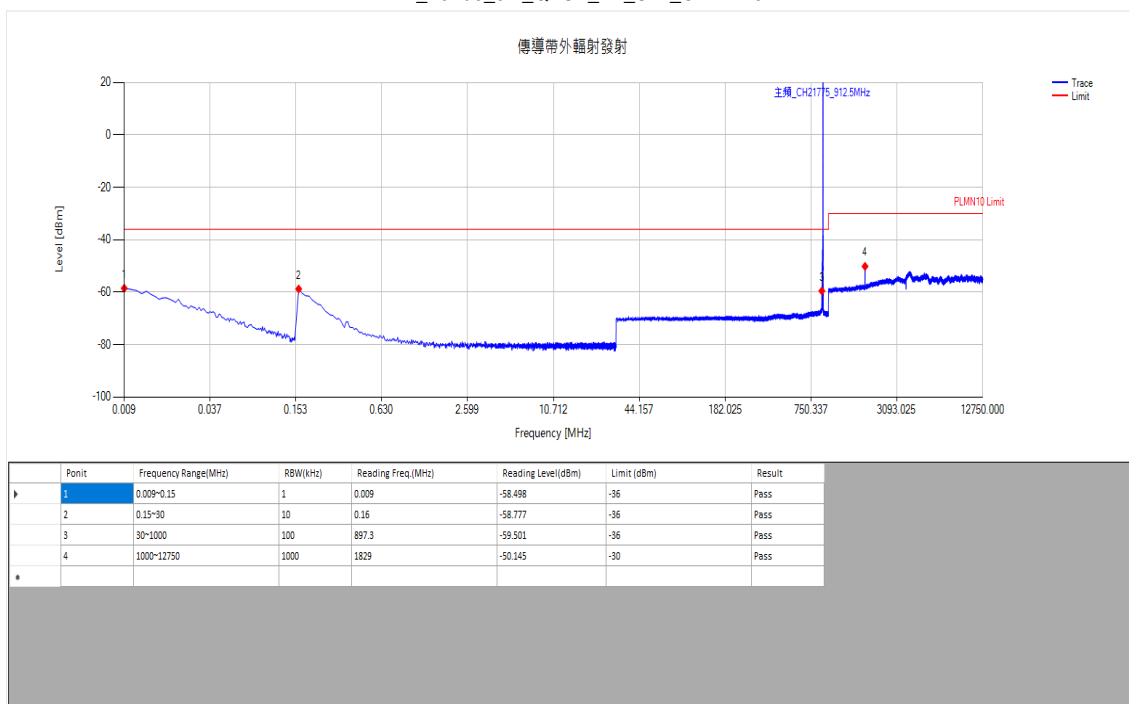
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LTE_Band8_5M_QPSK_R1_S24_CH21650



LTE_Band8_5M_QPSK_R1_S24_CH21775

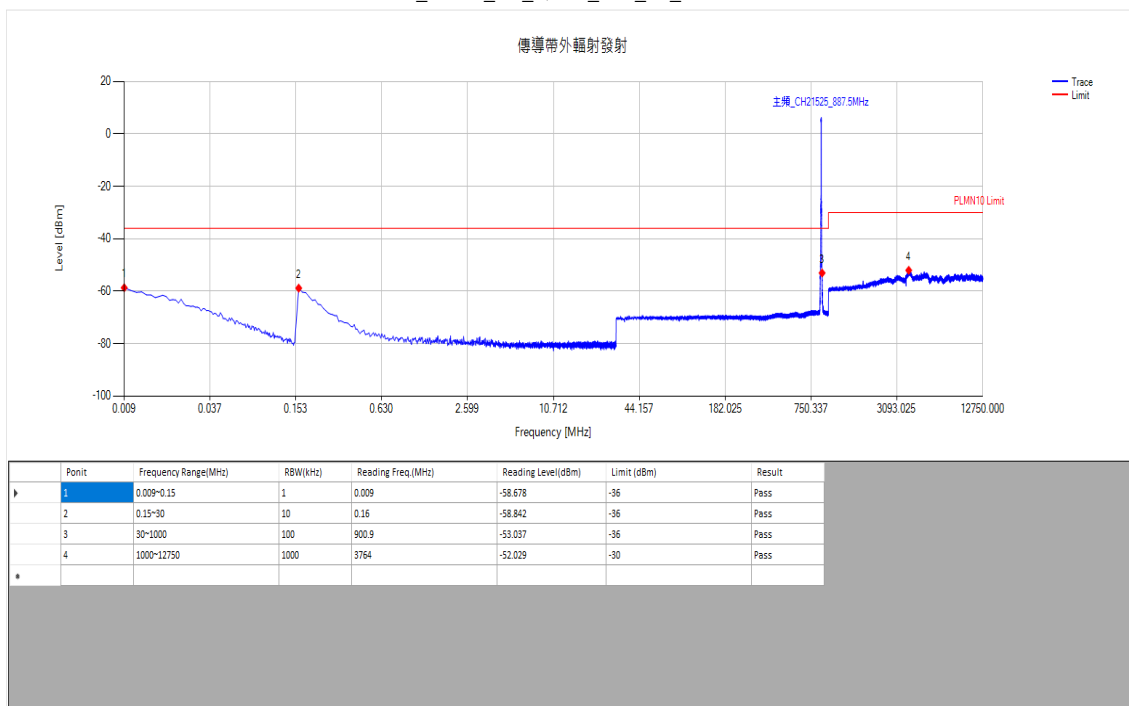


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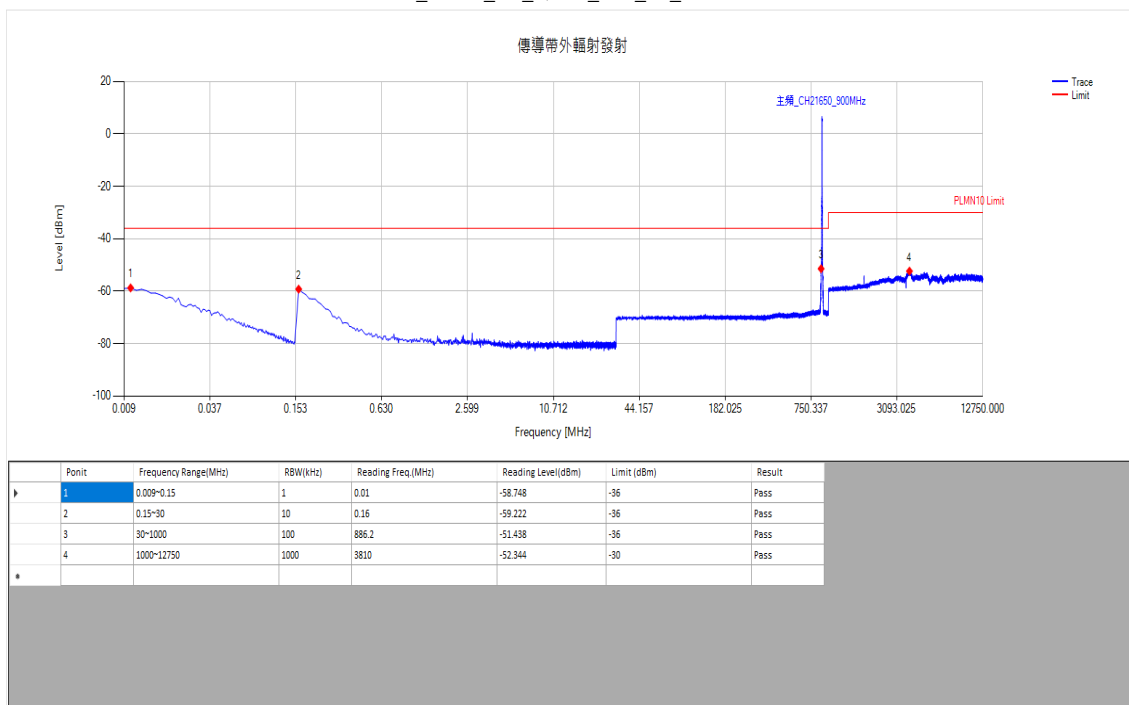
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LTE_Band8_5M_QPSK_R25_S0_CH21525



LTE_Band8_5M_QPSK_R25_S0_CH21650

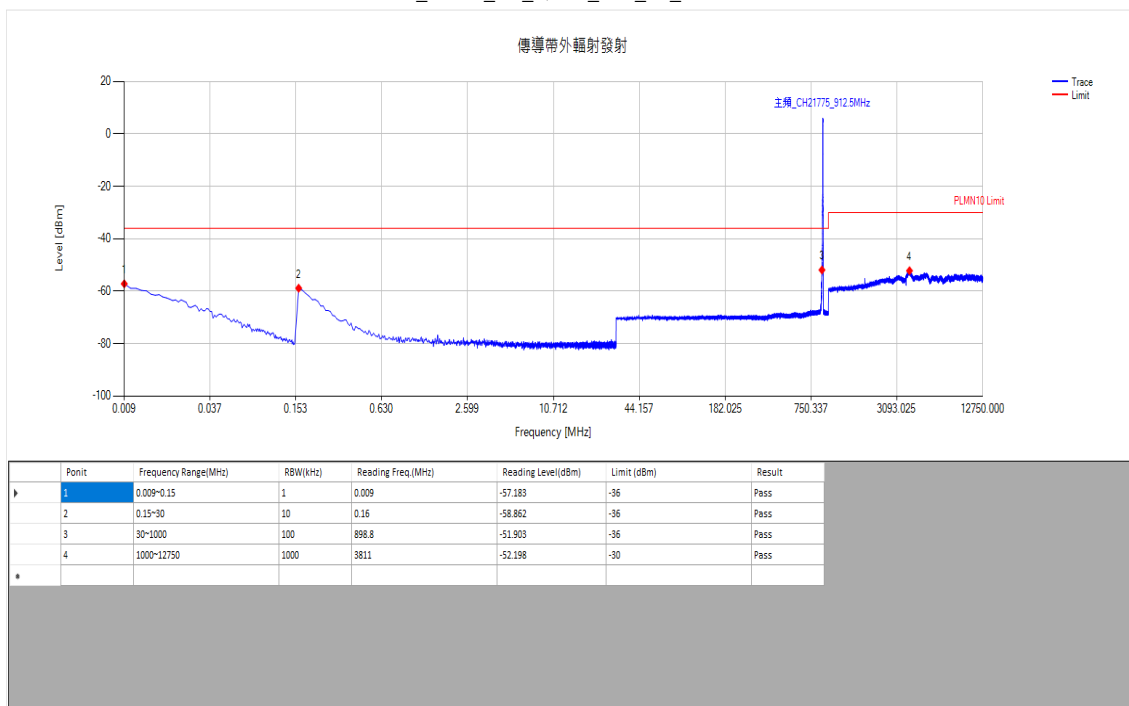


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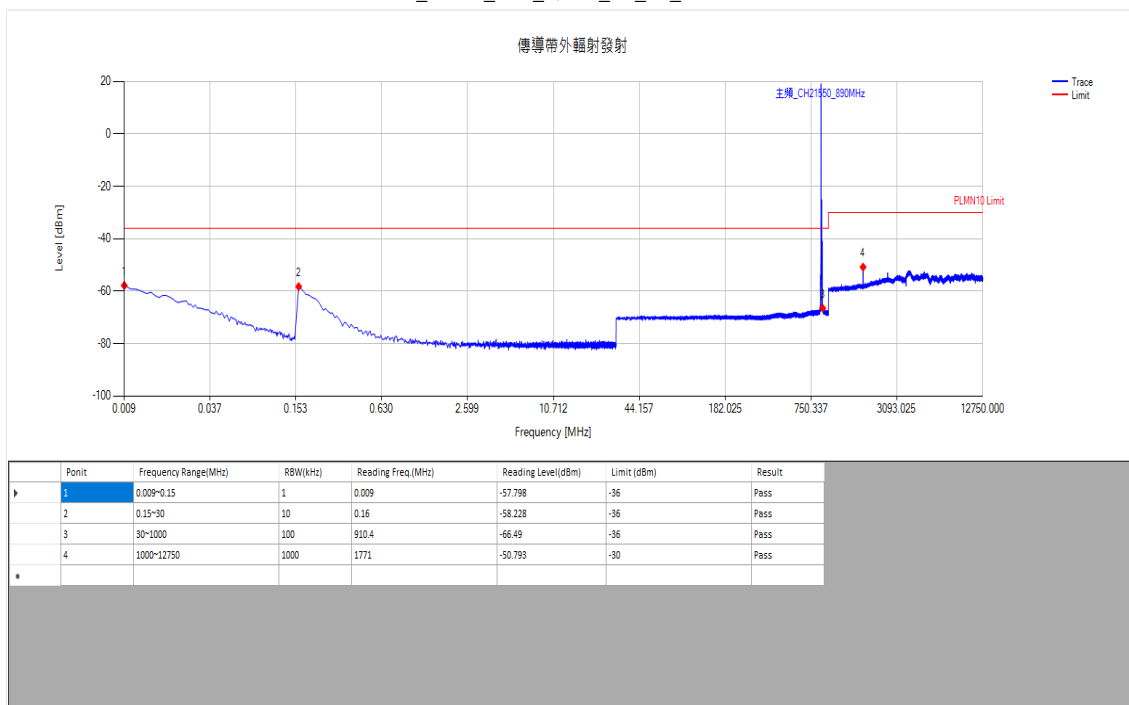
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LTE_Band8_5M_QPSK_R25_S0_CH21775



LTE_Band8_10M_QPSK_R1_S0_CH21550

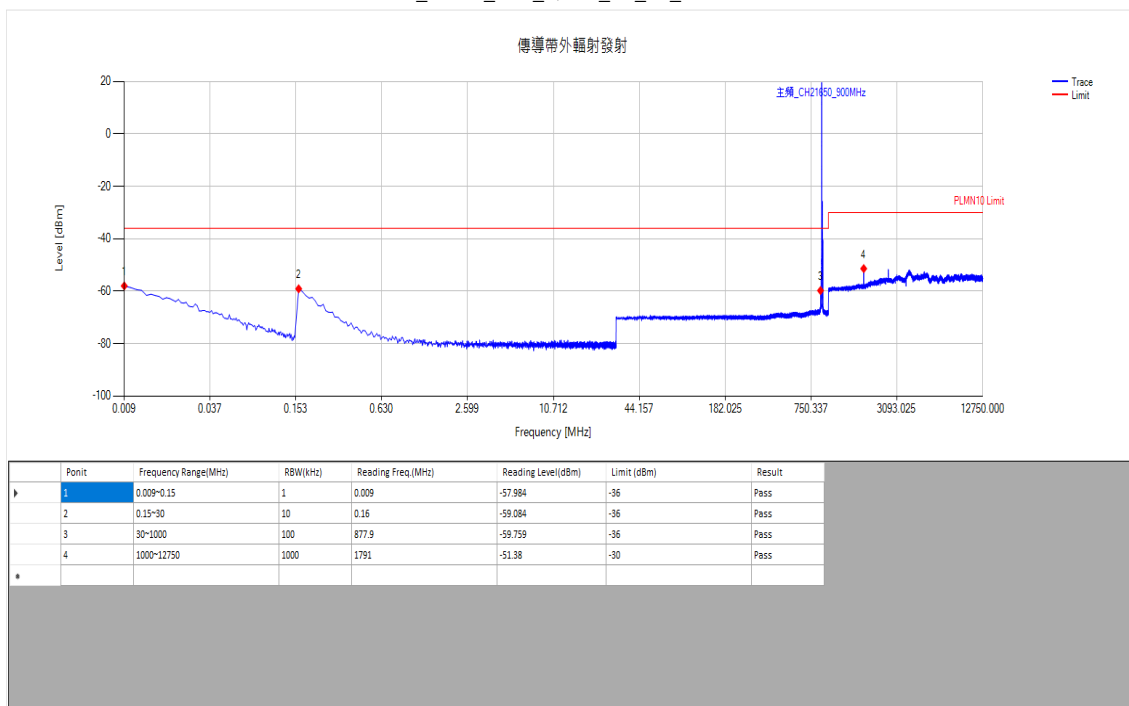


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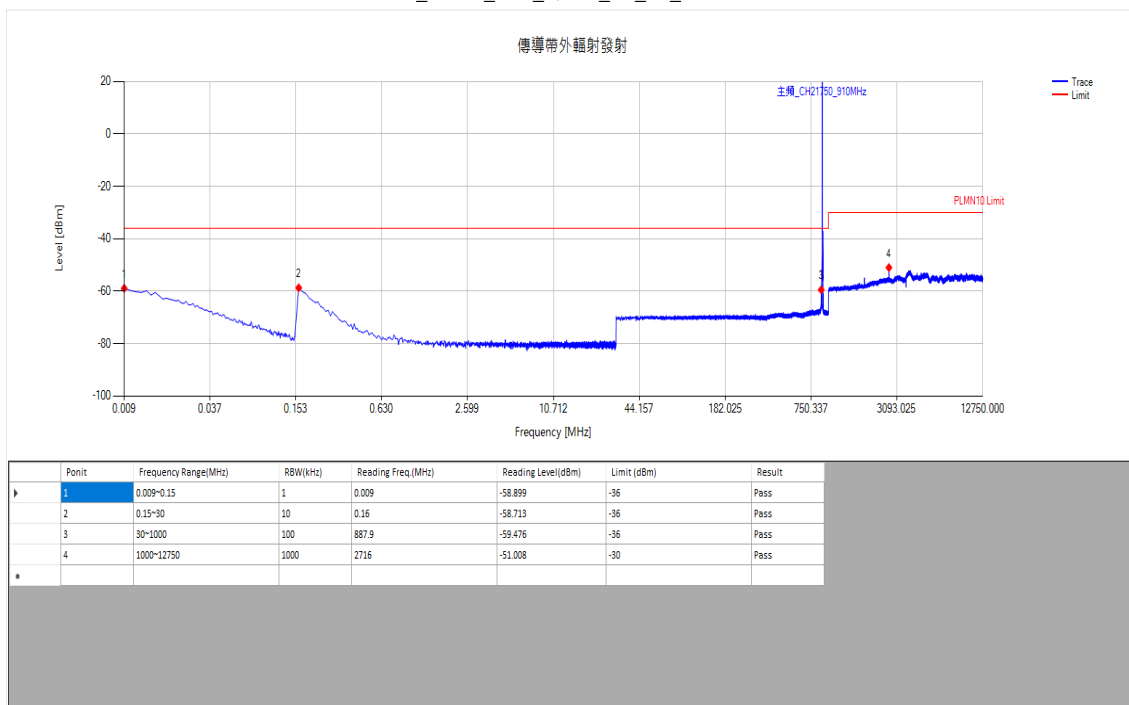
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LTE_Band8_10M_QPSK_R1_S0_CH21650



LTE_Band8_10M_QPSK_R1_S0_CH21750

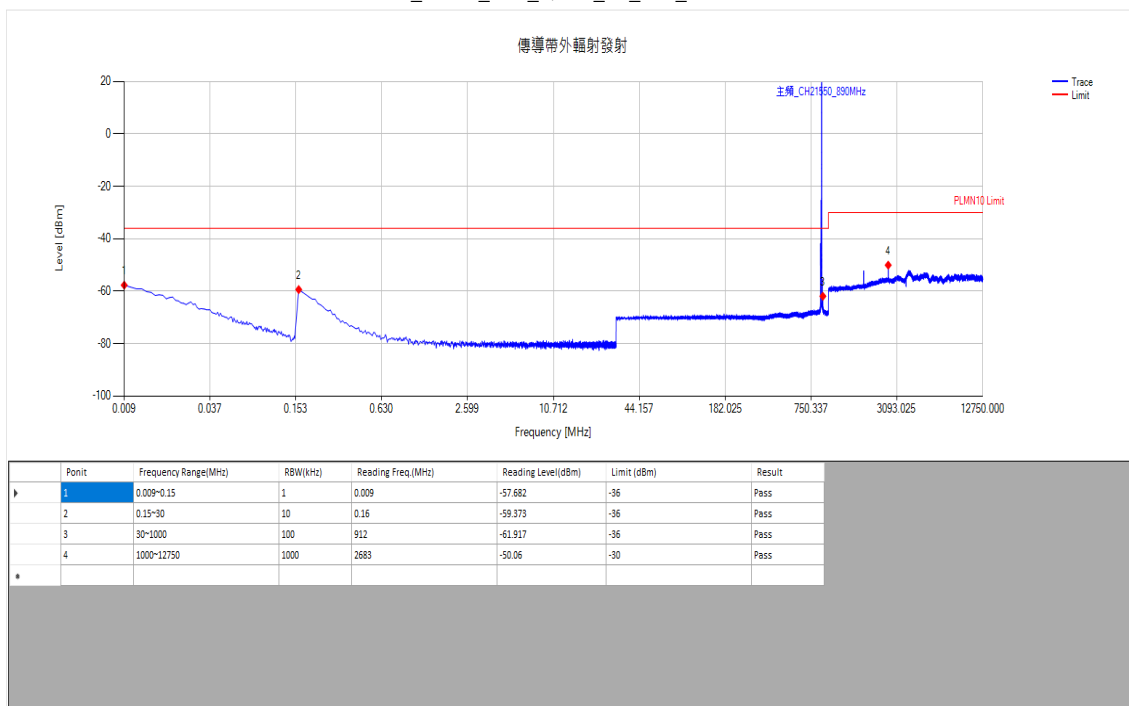


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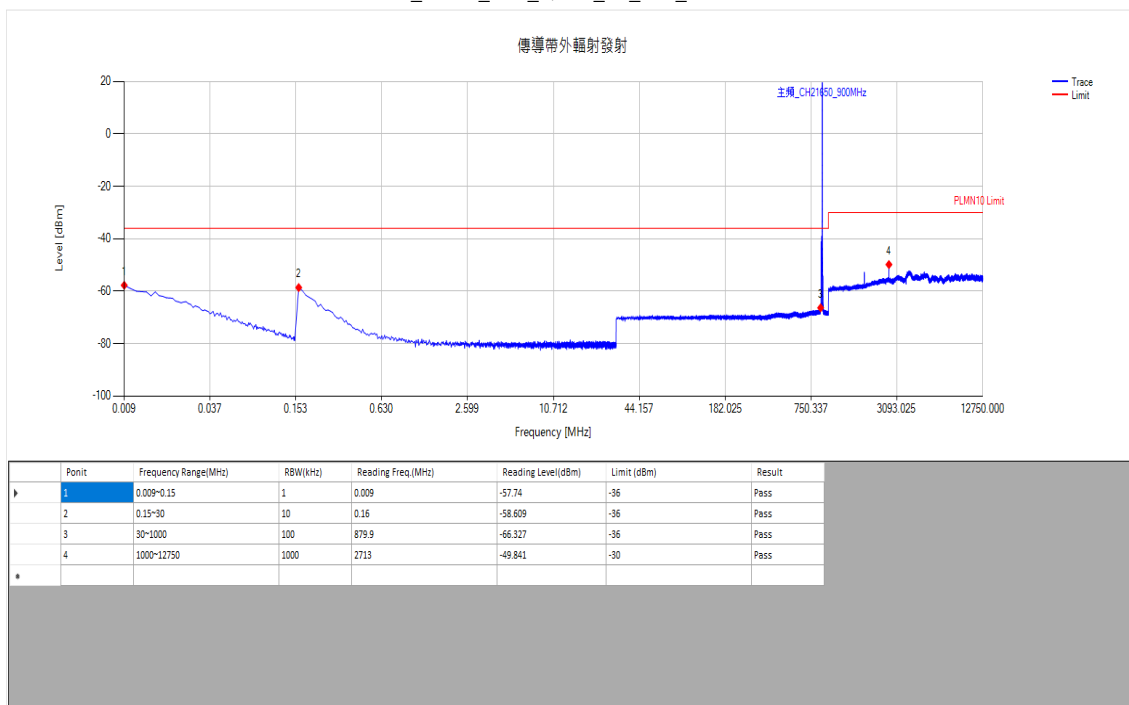
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LTE_Band8_10M_QPSK_R1_S49_CH21650

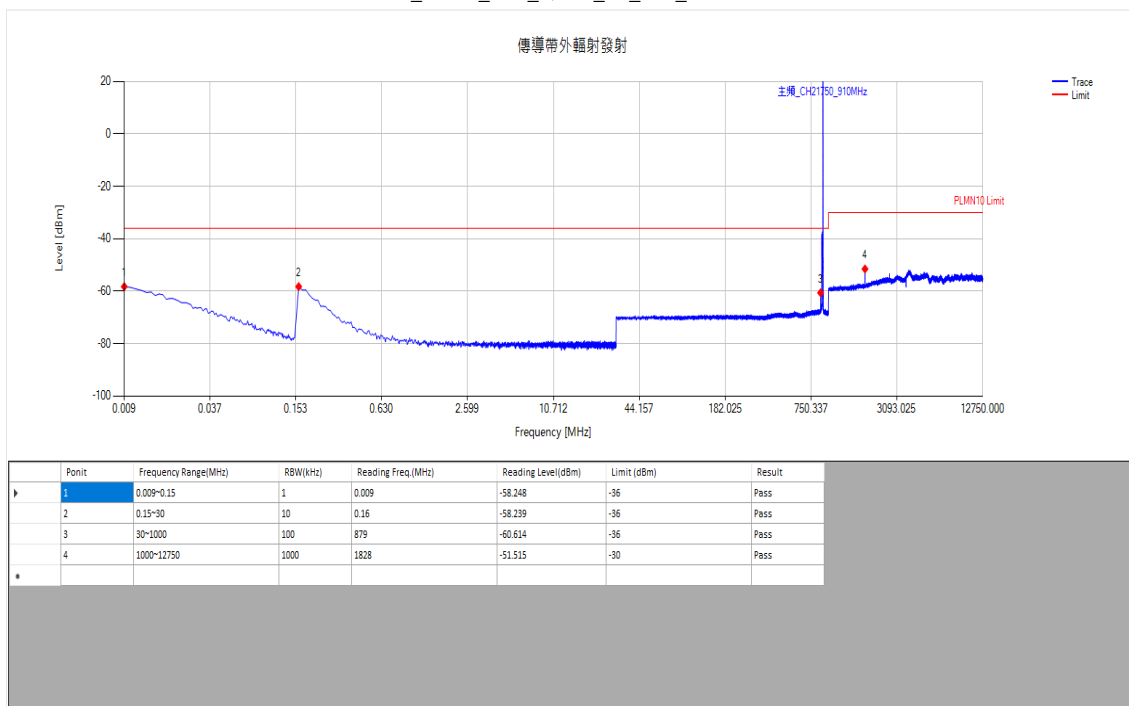


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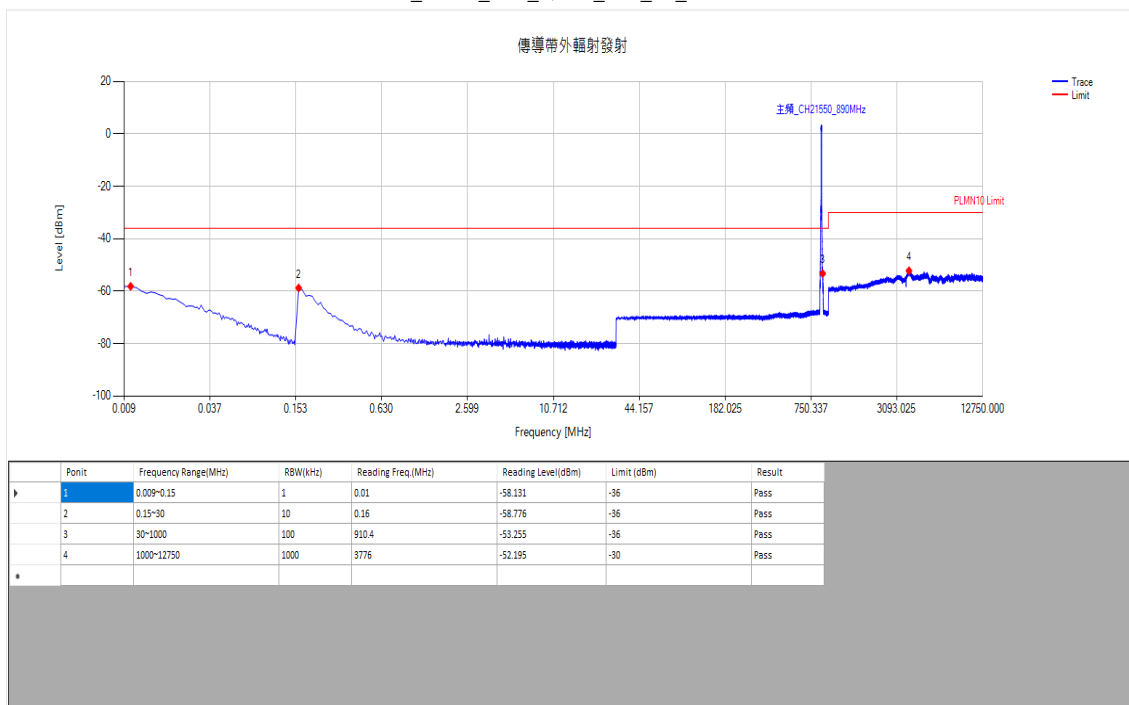
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LTE_Band8_10M_QPSK_R50_S0_CH21550

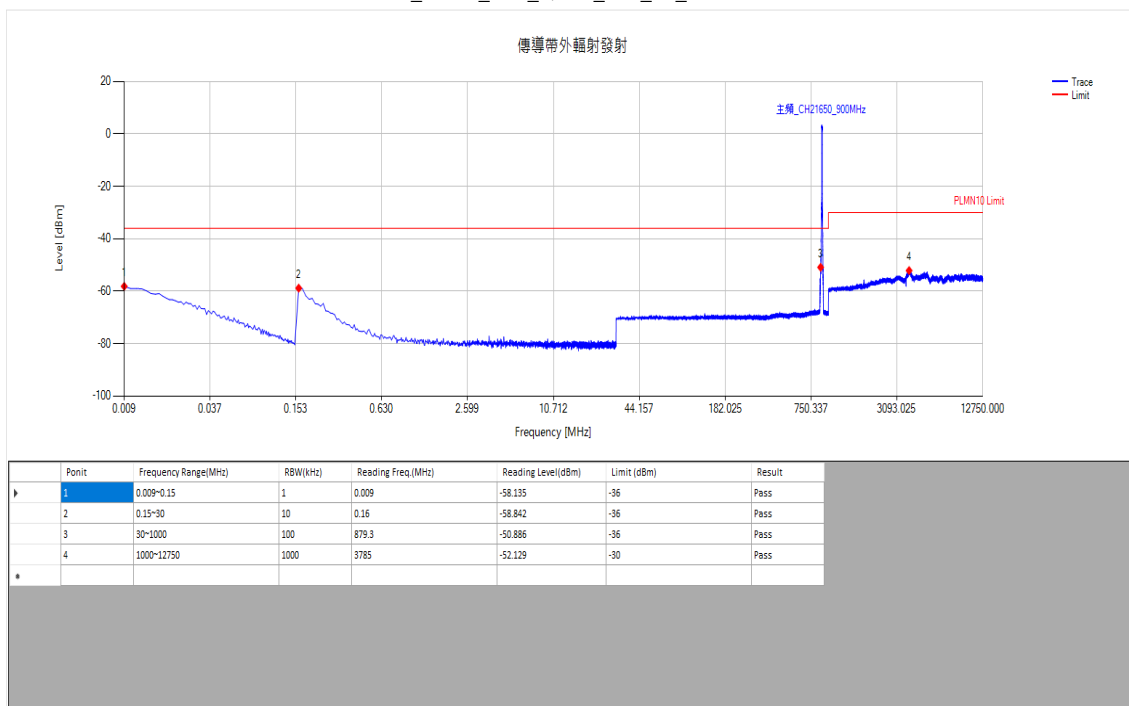


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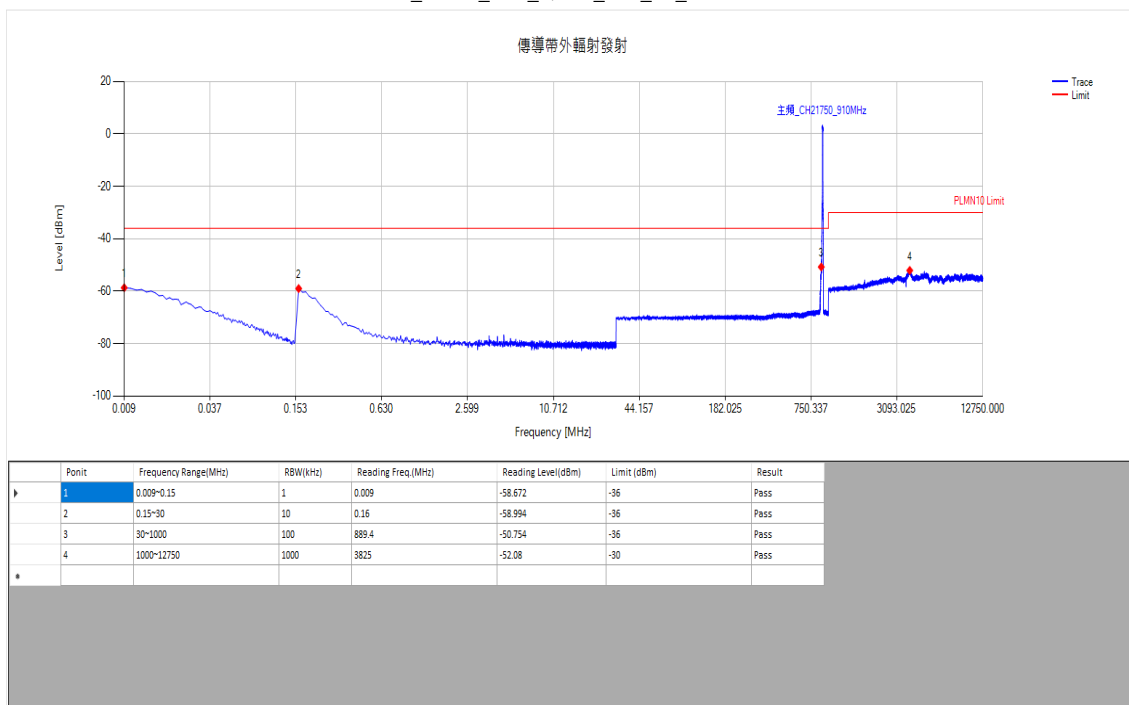
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LTE_Band8_10M_QPSK_R50_S0_CH21650



LTE_Band8_10M_QPSK_R50_S0_CH21750



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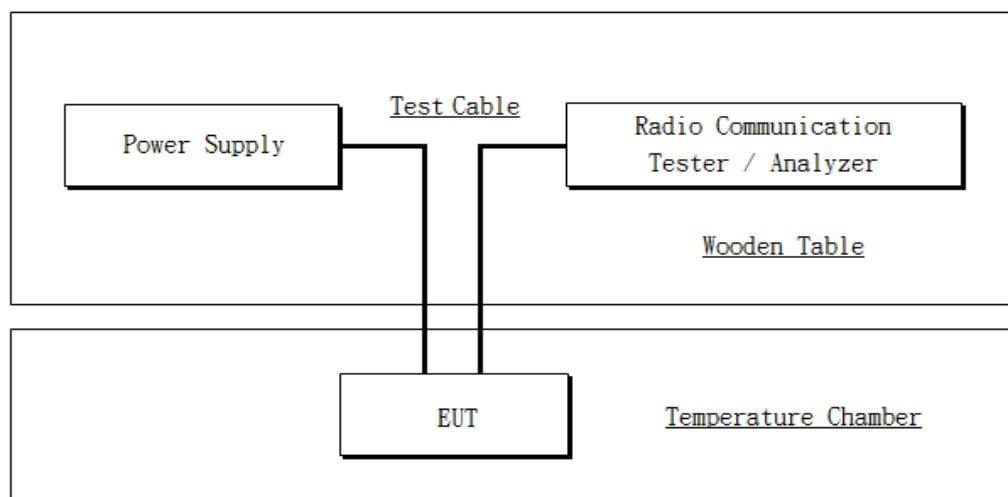
11 相鄰頻道洩漏功率比(ACLR)之量測

11.1 適用標準:

相鄰頻道洩漏功率比(ACLR) 應符合下列相鄰頻道洩漏功率比規範值

	頻道頻寬					
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
相鄰頻道偏移	$\pm 1.4\text{MHz}$	$\pm 3\text{MHz}$	$\pm 5\text{MHz}$	$\pm 10\text{MHz}$	$\pm 15\text{MHz}$	$\pm 20\text{MHz}$
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					

11.2 測試配置:



11.3 量測儀器:

參考本報告8.3節

11.4 測試方法:

- (1) 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數發射模式，均應分別檢測之。
- (2) RB allocation 依附表 53、3GPP TS36.521 Table 6.6.2.3.4.1-1 規定。
- (3) 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，頻道的量測頻寬依附表 53 之規定。

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附表 53、LTE 終端設備 ACLR 之測試參數

預設條件						
測試環境		常態環境常態電壓				
測試頻道		低、中、高				
測試頻道頻寬		最低、5 MHz、10MHz 及 最高				
測試參數						
頻道頻寬	下行結構			上行結構		
	調變方式	資源區塊分配		調變方式	資源區塊分配	
		FDD	TDD		FDD	TDD
1.4MHz	ACLR 測試不適用			QPSK	6	6
1.4MHz				QPSK	5	5
1.4MHz				16QAM	6	6
1.4MHz				16QAM	5	5
3MHz				QPSK	15	15
3MHz				QPSK	4	4
3MHz				16QAM	15	15
3MHz				16QAM	4	4
5MHz				QPSK	25	25
5MHz				QPSK	8	8
5MHz				16QAM	25	25
5MHz				16QAM	8	8
10MHz				QPSK	50	50
10MHz				QPSK	12	12
10MHz				16QAM	50 (註 1)	50 (註 1)
10MHz				16QAM	12	12
15MHz				QPSK	75	75
15MHz				QPSK	16	16
15MHz				16QAM	75 (註 1)	75 (註 1)
15MHz				16QAM	16	16
20MHz				QPSK	100	100
20MHz				QPSK	18	18
20MHz				16QAM	100 (註 1)	100 (註 1)
20MHz				16QAM	18	18

註：

- 1、僅適用於用戶設備類別 (UE-Categories) 為 2~5。
- 2、RB offset 設定值及應檢項目之測試方法，依 3GPP TS 36.521 技術標準規定。

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11.5 量測結果:

LTE Band 1									
BW (MHz)	RB Size	RB Offset	Channel	Modulation	ACLR (dB)	Modulation	ACLR (dB)	Limit (dB)	Pass / Fail
5	8	0	18025	QPSK	-40.90	16QAM	-40.48	-29.2	Pass
			18300		-38.80		-39.23	-29.2	Pass
			18575		-39.07		-39.75	-29.2	Pass
	8	17	18025		-40.85		-40.53	-29.2	Pass
			18300		-38.96		-38.81	-29.2	Pass
			18575		-38.57		-39.86	-29.2	Pass
	25	0	18025		-39.60		-39.18	-29.2	Pass
			18300		-38.78		-38.86	-29.2	Pass
			18575		-39.42		-39.36	-29.2	Pass
10	12	0	18050	QPSK	-41.73	16QAM	-42.38	-29.2	Pass
			18300		-41.29		-41.96	-29.2	Pass
			18550		-40.63		-41.80	-29.2	Pass
	12	38	18050		-41.76		-42.25	-29.2	Pass
			18300		-39.52		-39.96	-29.2	Pass
			18550		-40.33		-40.62	-29.2	Pass
	50	0	18050		-40.31		-39.75	-29.2	Pass
			18300		-38.94		-38.91	-29.2	Pass
			18550		-40.86		-39.67	-29.2	Pass
20	18	0	18100	QPSK	-43.93	16QAM	-44.55	-29.2	Pass
			18300		-42.66		-42.81	-29.2	Pass
			18500		-41.48		-42.04	-29.2	Pass
	18	82	18100		-43.51		-45.20	-29.2	Pass
			18300		-40.46		-41.05	-29.2	Pass
			18500		-42.40		-43.27	-29.2	Pass
	100	0	18100		-42.18		-41.22	-29.2	Pass
			18300		-37.78		-37.46	-29.2	Pass
			18500		-39.44		-39.10	-29.2	Pass

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LTE Band 3

BW (MHz)	RB Size	RB Offset	Channel	Modulation	ACLR (dB)	Modulation	ACLR (dB)	Limit (dB)	Pass / Fail
1.4	5	0	19207	QPSK	-43.18	16QAM	-44.52	-29.2	Pass
			19575		-44.49		-44.45	-29.2	Pass
			19943		-42.95		-43.24	-29.2	Pass
	5	1	19207		-43.29		-45.85	-29.2	Pass
			19575		-45.30		-45.42	-29.2	Pass
			19943		-42.91		-44.21	-29.2	Pass
	6	0	19207		-44.44		-45.48	-29.2	Pass
			19575		-45.25		-44.69	-29.2	Pass
			19943		-44.31		-44.50	-29.2	Pass
5	8	0	19225	QPSK	-44.43	16QAM	-44.14	-29.2	Pass
			19575		-44.69		-44.32	-29.2	Pass
			19925		-45.22		-44.86	-29.2	Pass
	8	17	19225		-43.66		-43.94	-29.2	Pass
			19575		-45.83		-45.19	-29.2	Pass
			19925		-45.39		-45.10	-29.2	Pass
	25	0	19225		-44.02		-44.04	-29.2	Pass
			19575		-43.73		-42.69	-29.2	Pass
			19925		-44.76		-43.46	-29.2	Pass
10	12	0	19250	QPSK	-45.25	16QAM	-45.53	-29.2	Pass
			19575		-45.80		-45.77	-29.2	Pass
			19900		-45.25		-45.13	-29.2	Pass
	12	38	19250		-45.68		-45.38	-29.2	Pass
			19575		-46.42		-45.79	-29.2	Pass
			19900		-46.32		-46.81	-29.2	Pass
	50	0	19250		-43.53		-43.86	-29.2	Pass
			19575		-44.13		-43.31	-29.2	Pass
			19900		-44.94		-44.02	-29.2	Pass
20	18	0	19300	QPSK	-46.94	16QAM	-47.81	-29.2	Pass
			19575		-47.81		-48.14	-29.2	Pass
			19850		-45.48		-46.72	-29.2	Pass
	18	82	19300		-47.11		-47.45	-29.2	Pass
			19575		-47.08		-47.80	-29.2	Pass
			19850		-48.05		-48.66	-29.2	Pass
	100	0	19300		-44.02		-43.62	-29.2	Pass
			19575		-43.30		-42.53	-29.2	Pass
			19850		-43.10		-42.11	-29.2	Pass

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LTE Band 8

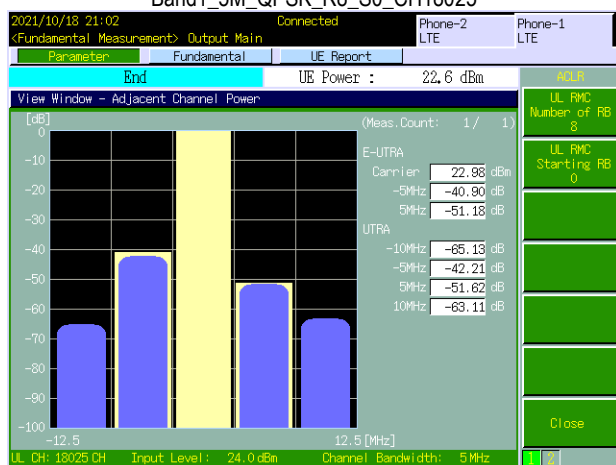
BW (MHz)	RB Size	RB Offset	Channel	Modulation	ACLR (dB)	Modulation	ACLR (dB)	Limit (dB)	Pass / Fail
1.4	5	0	21507	QPSK	-36.74	16QAM	-37.53	-29.2	Pass
			21650		-39.13		-39.49	-29.2	Pass
			21793		-35.12		-35.45	-29.2	Pass
	5	1	21507		-35.98		-36.92	-29.2	Pass
			21650		-38.22		-38.38	-29.2	Pass
			21793		-35.09		-35.57	-29.2	Pass
	6	0	21507		-36.65		-36.97	-29.2	Pass
			21650		-38.28		-38.56	-29.2	Pass
			21793		-35.72		-36.14	-29.2	Pass
5	8	0	21525	QPSK	-36.86	16QAM	-37.48	-29.2	Pass
			21650		-38.33		-38.53	-29.2	Pass
			21775		-36.62		-36.40	-29.2	Pass
	8	17	21525		-35.76		-35.95	-29.2	Pass
			21650		-38.20		-37.69	-29.2	Pass
			21775		-35.90		-36.14	-29.2	Pass
	25	0	21525		-34.01		-34.31	-29.2	Pass
			21650		-35.67		-35.85	-29.2	Pass
			21775		-34.13		-34.18	-29.2	Pass
10	12	0	21550	QPSK	-38.40	16QAM	-39.20	-29.2	Pass
			21650		-39.45		-39.14	-29.2	Pass
			21750		-36.61		-37.73	-29.2	Pass
	12	38	21550		-38.70		-38.71	-29.2	Pass
			21650		-39.71		-39.82	-29.2	Pass
			21750		-38.75		-39.25	-29.2	Pass
	50	0	21550		-32.52		-33.03	-29.2	Pass
			21650		-37.17		-37.23	-29.2	Pass
			21750		-33.20		-33.30	-29.2	Pass

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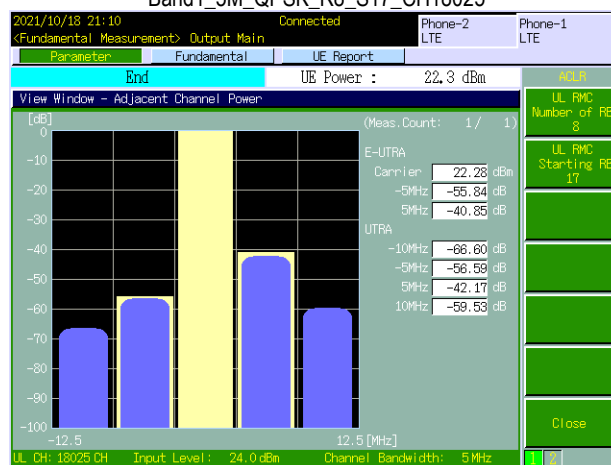
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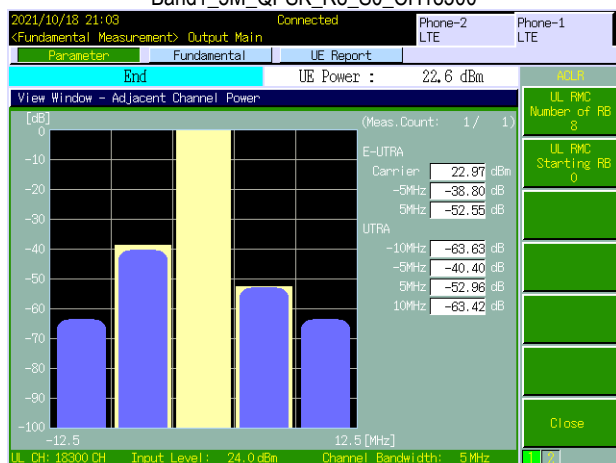
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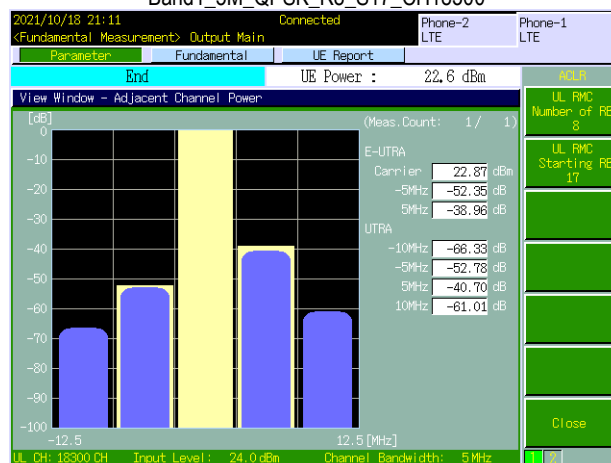
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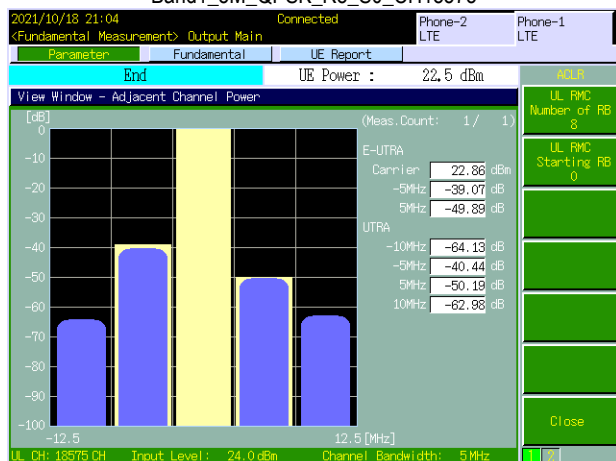
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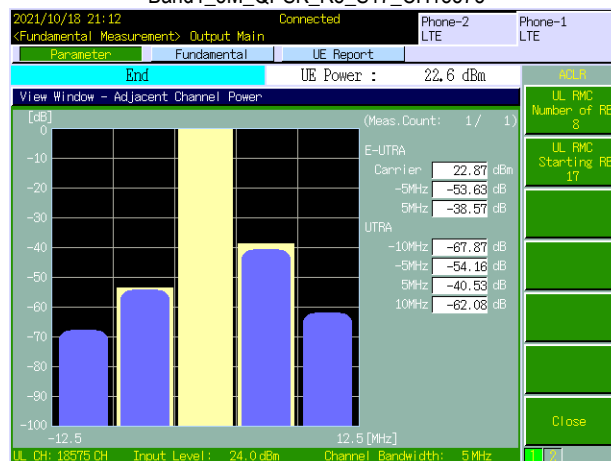
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Band1 5M QPSK R8 S0 CH18575



Band1 5M QPSK R8 S17 CH18575

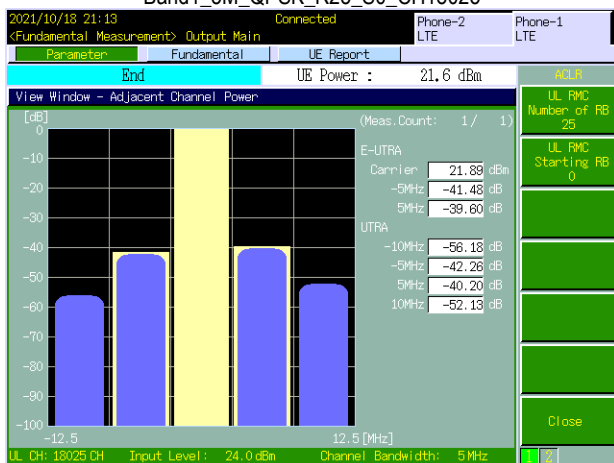


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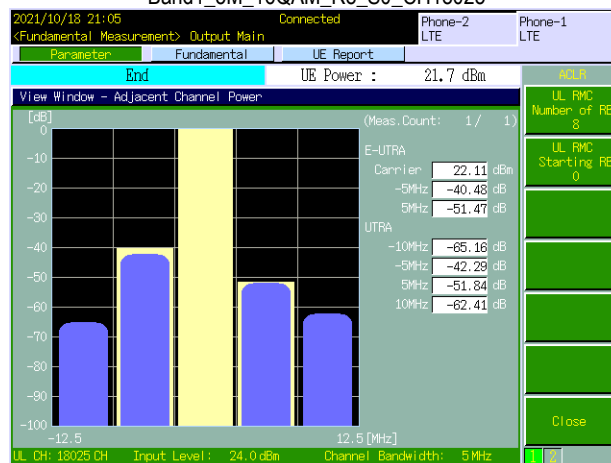
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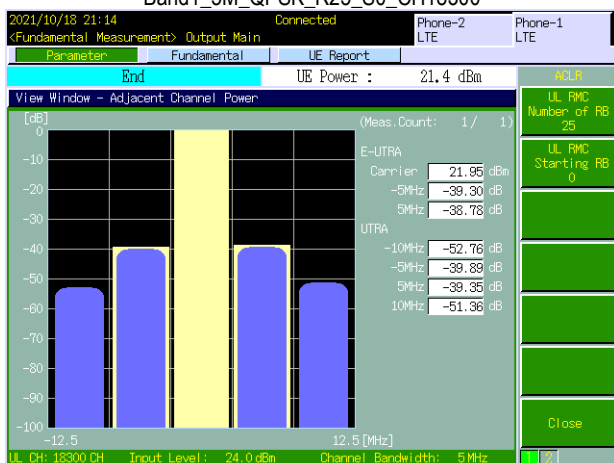
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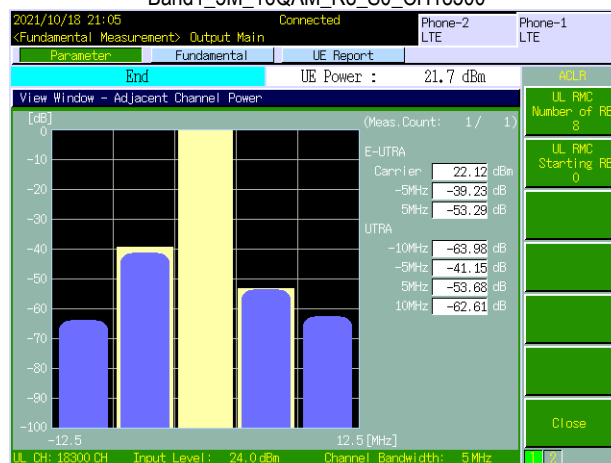
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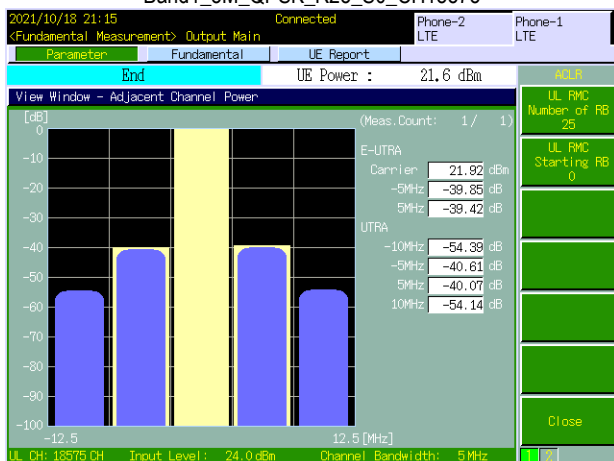
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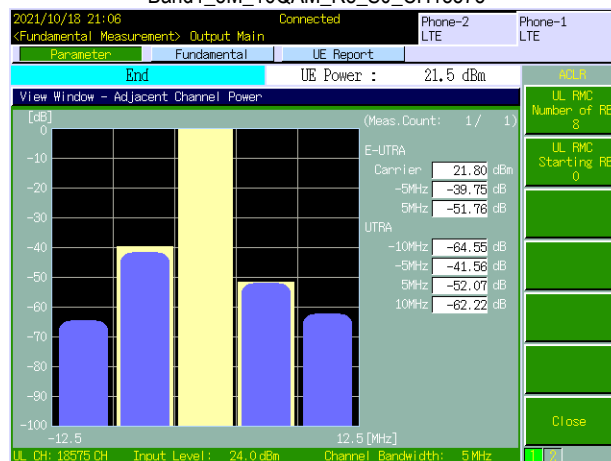
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Band1_5M_QPSK_R25_S0_CH18575



Band1_5M_16QAM_R8_S0_CH18575

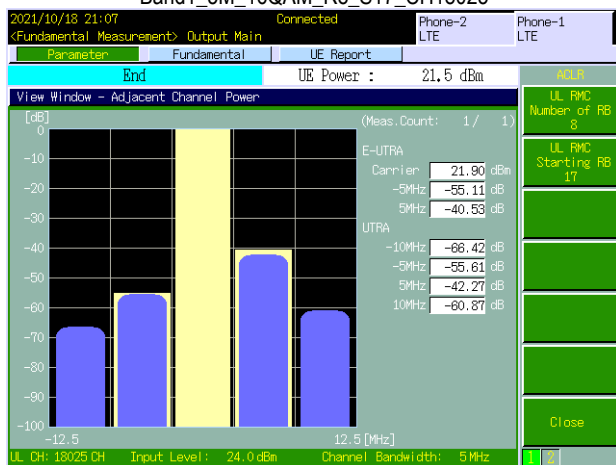


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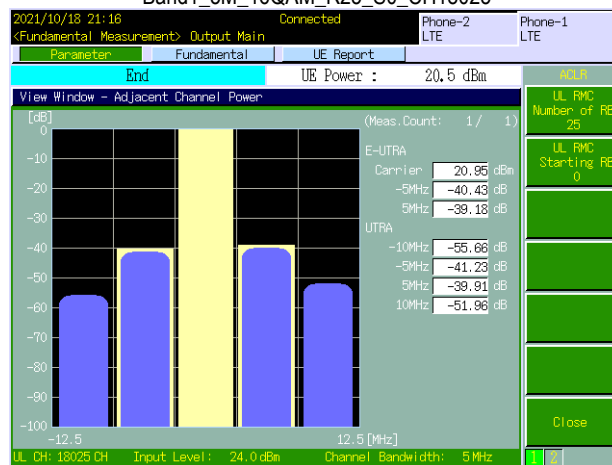
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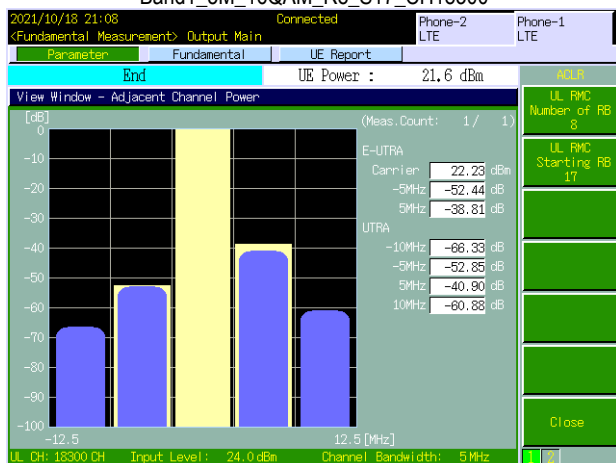
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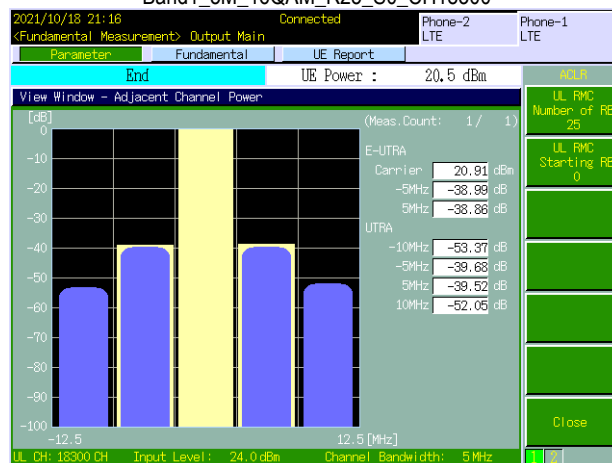
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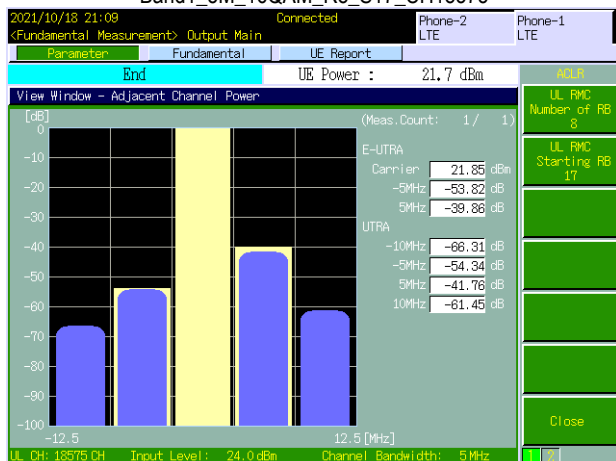
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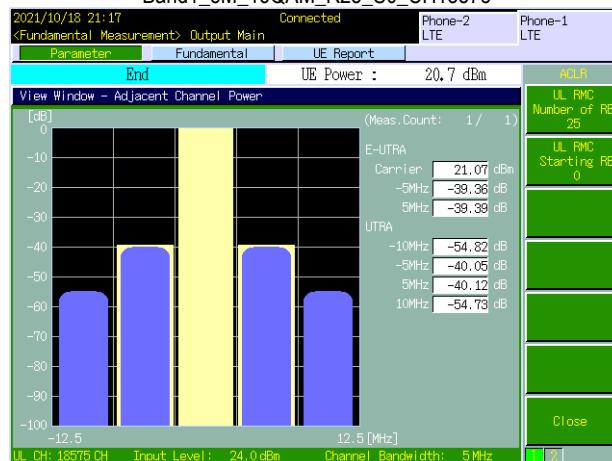
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Band1_5M_16QAM_R8_S17_CH18575



Band1_5M_16QAM_R25_S0_CH18575

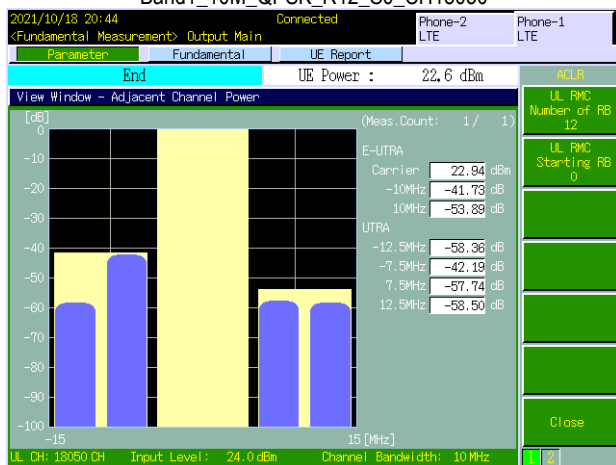


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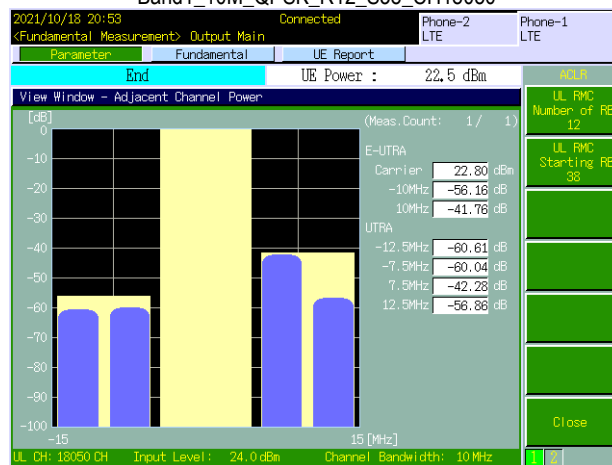
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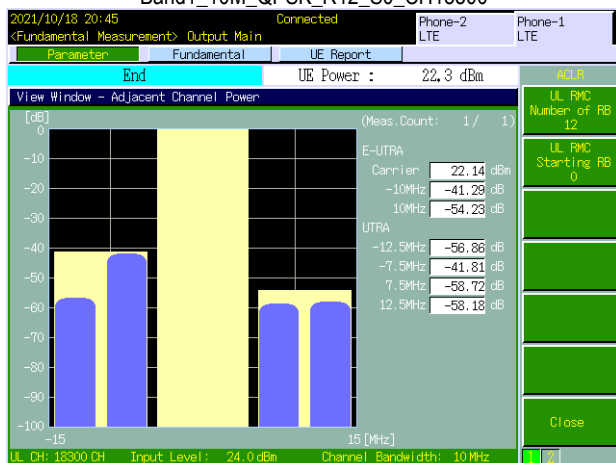
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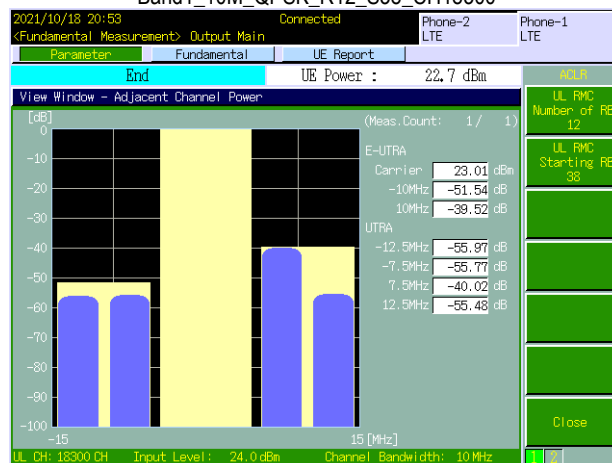
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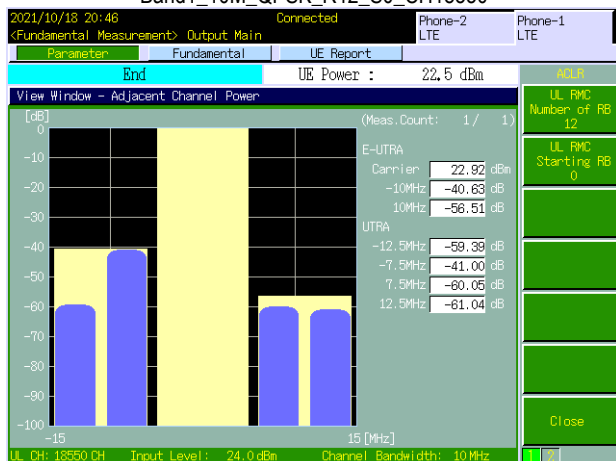
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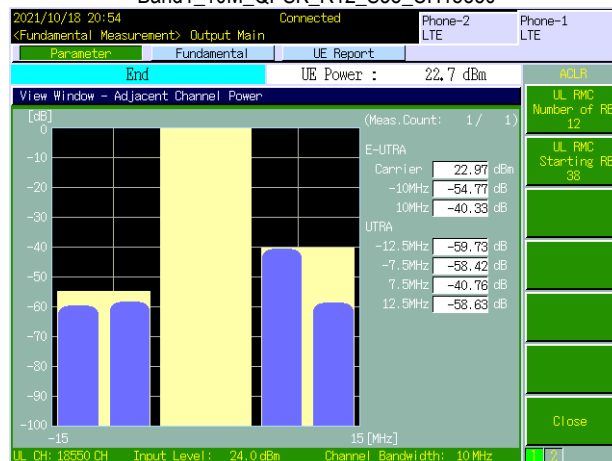
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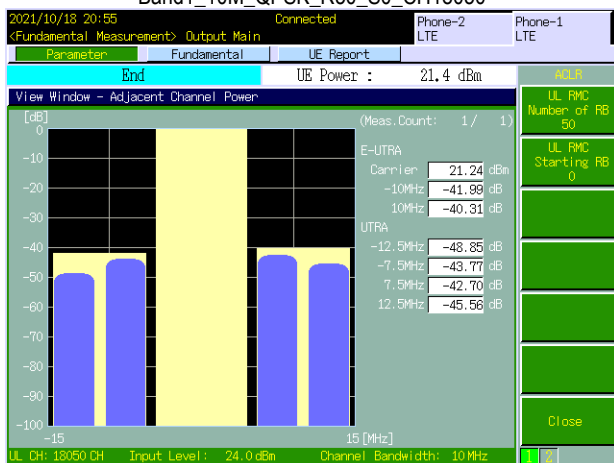


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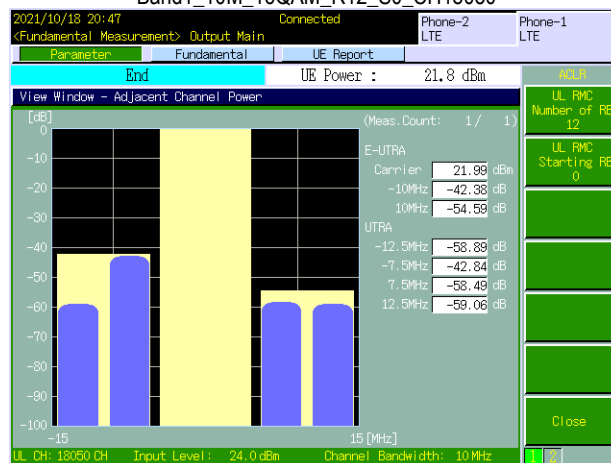
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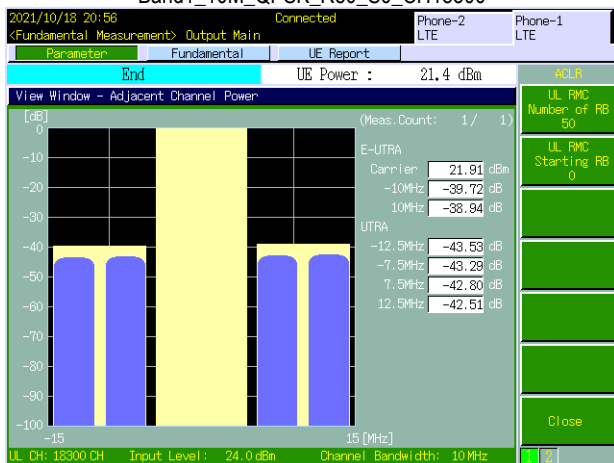
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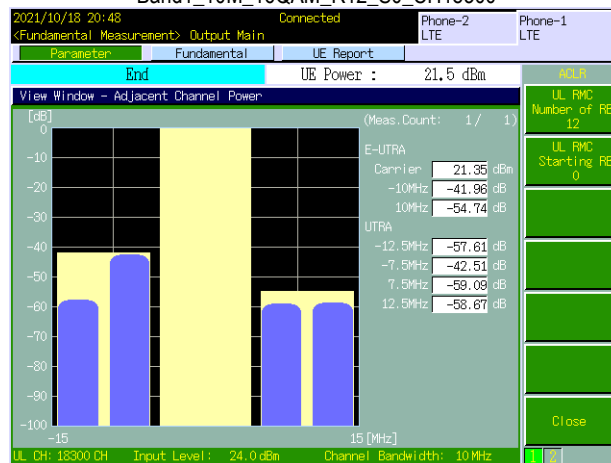
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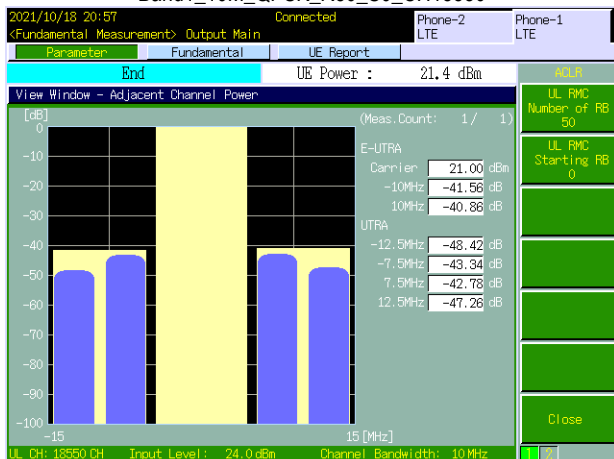
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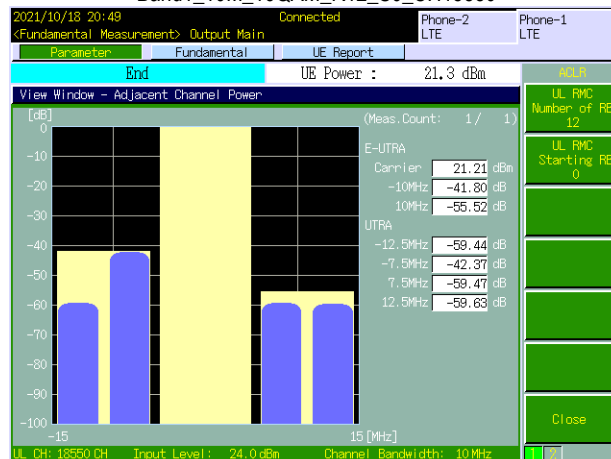
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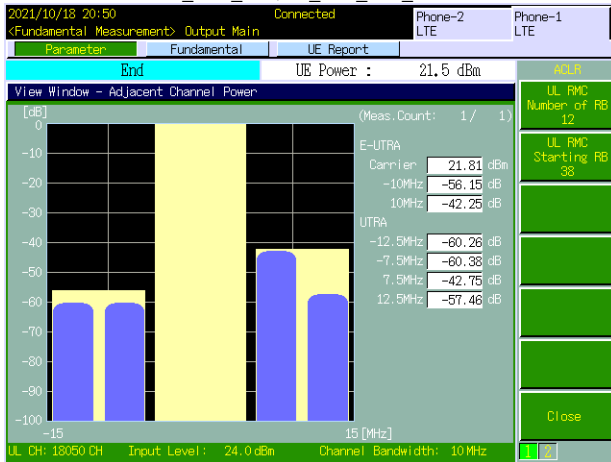


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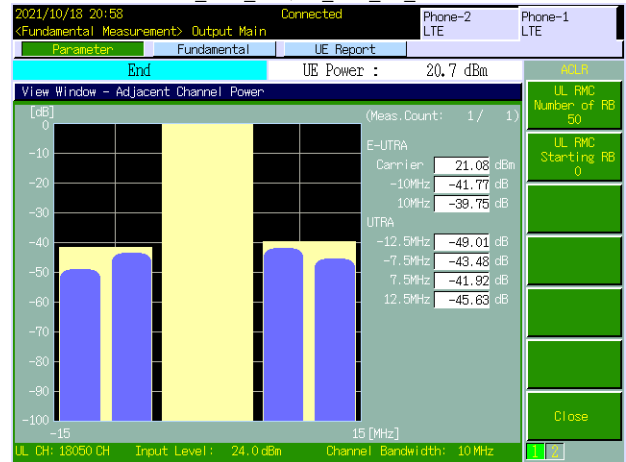
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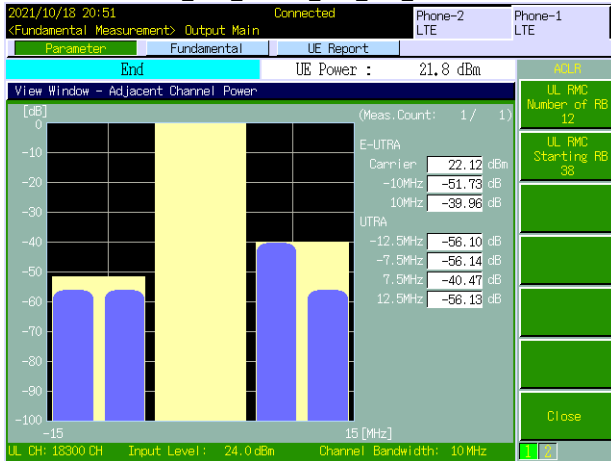
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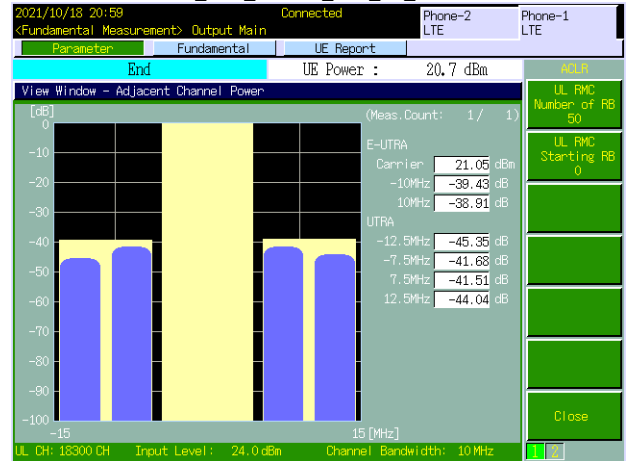
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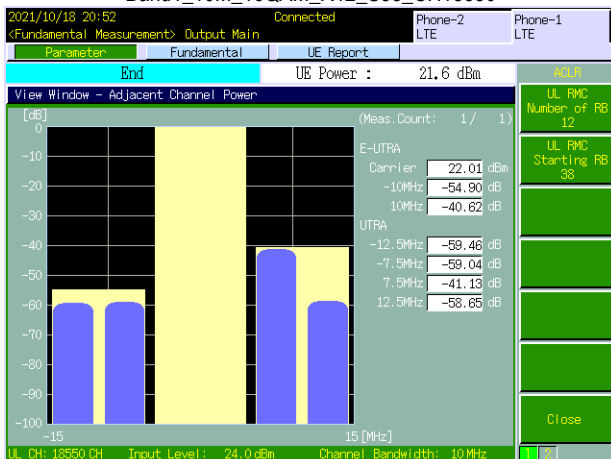
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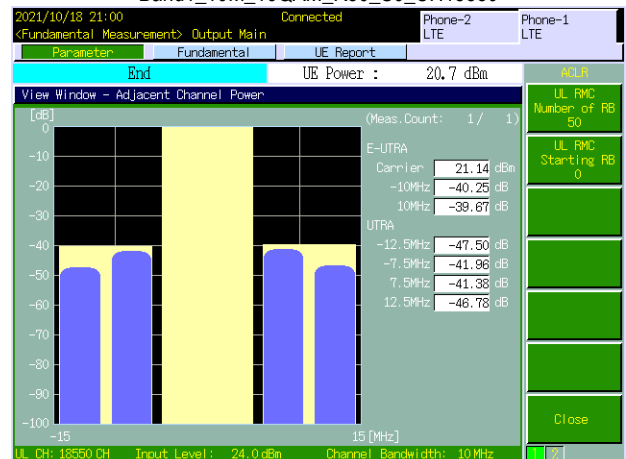
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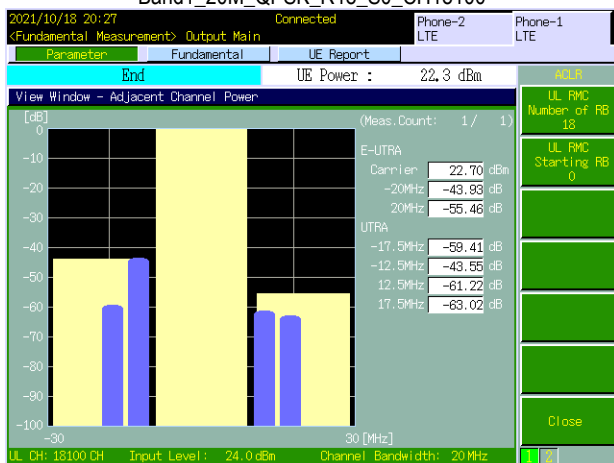


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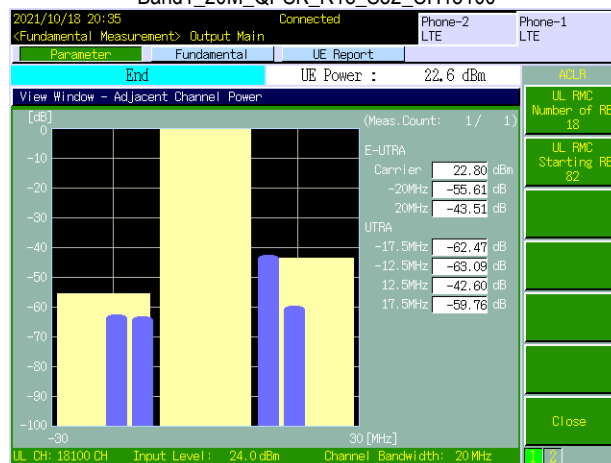
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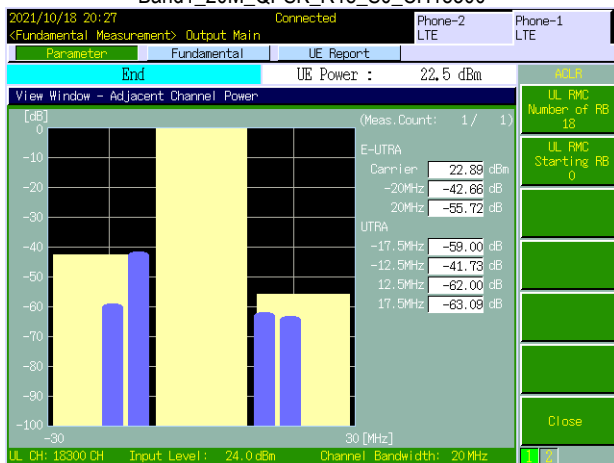
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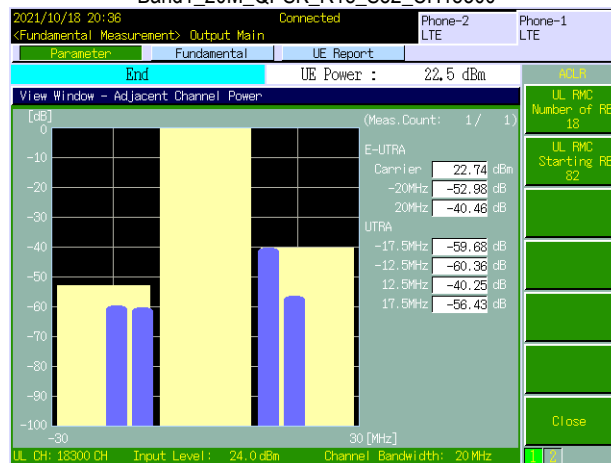
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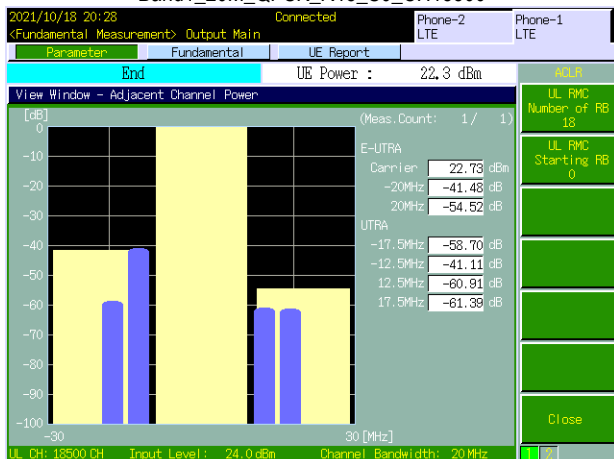
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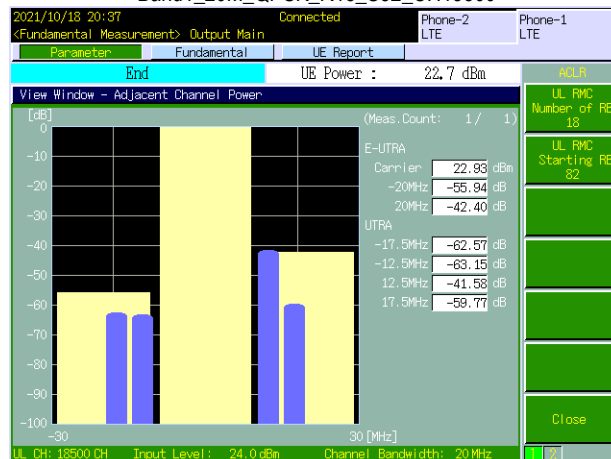
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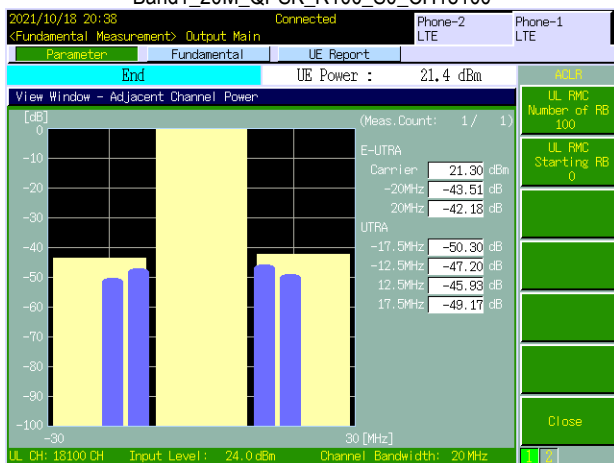


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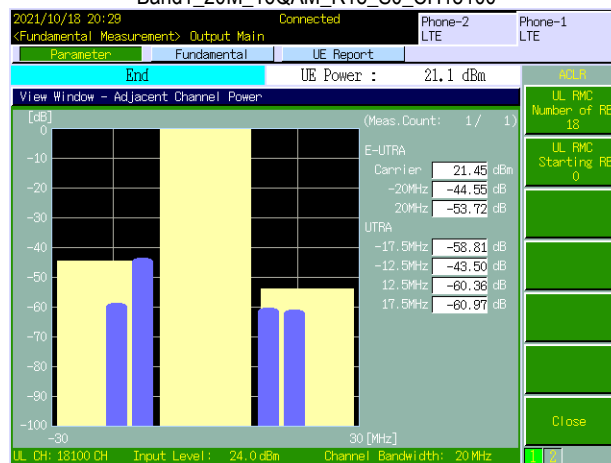
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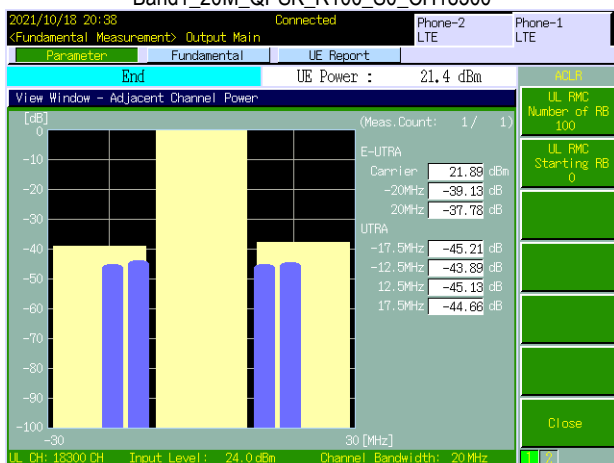
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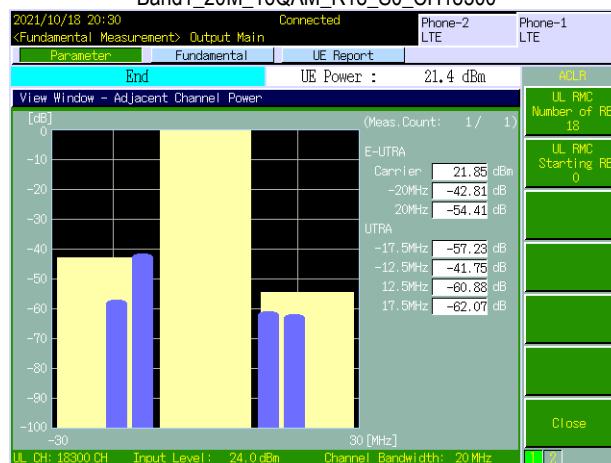
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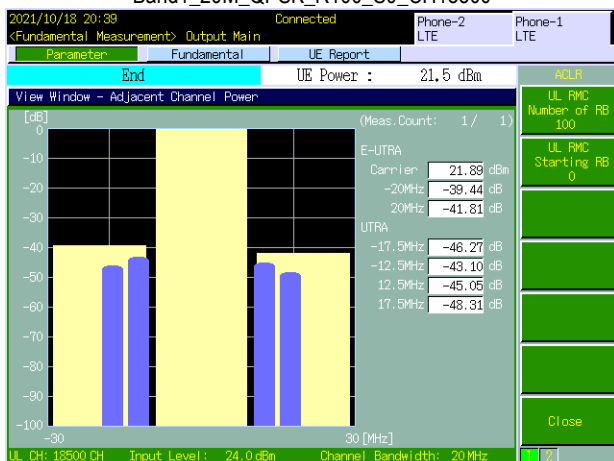
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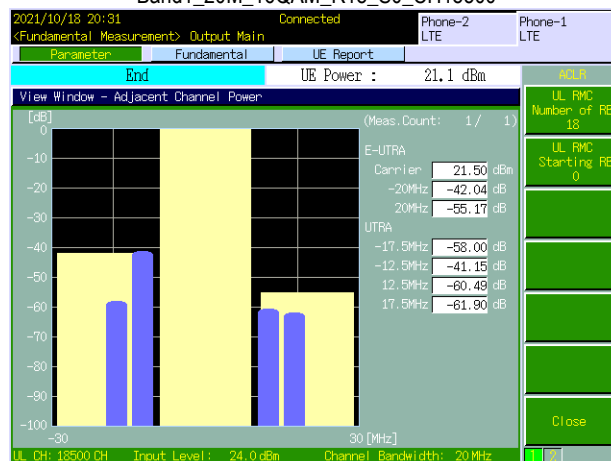
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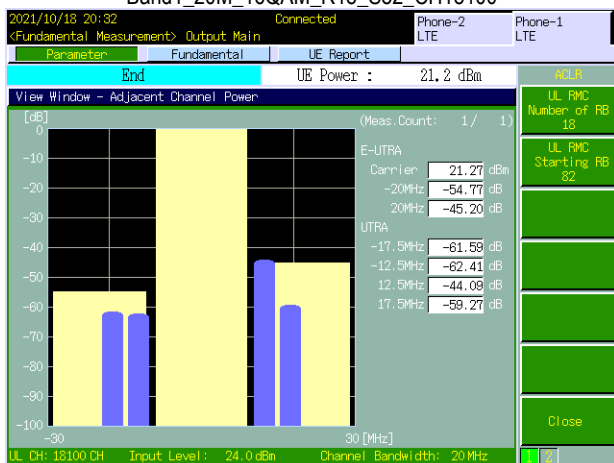


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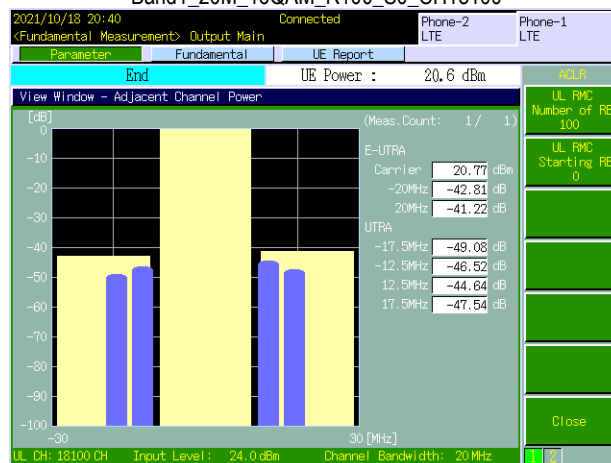
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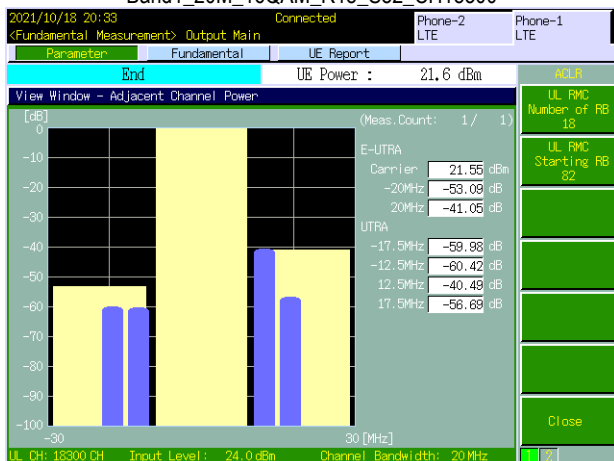
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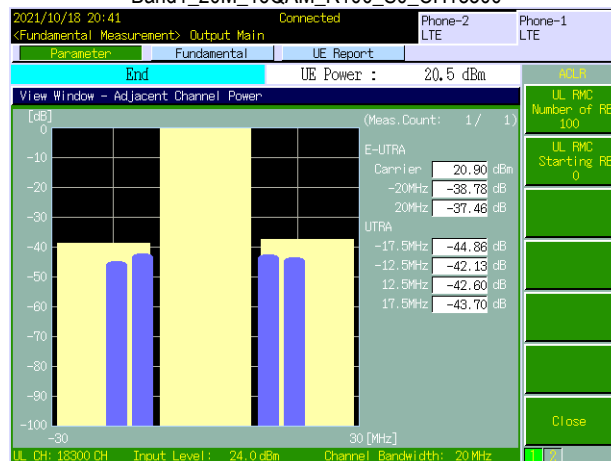
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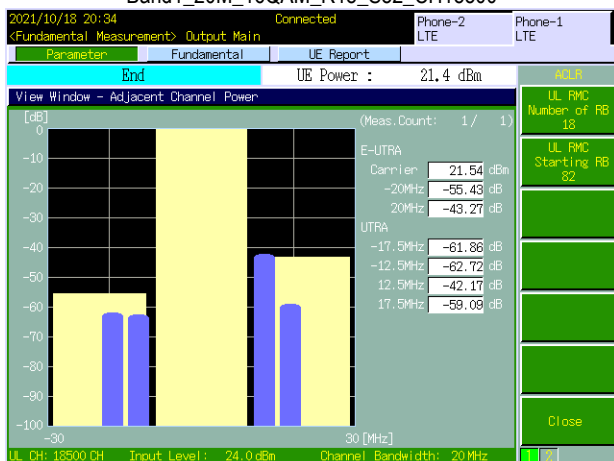
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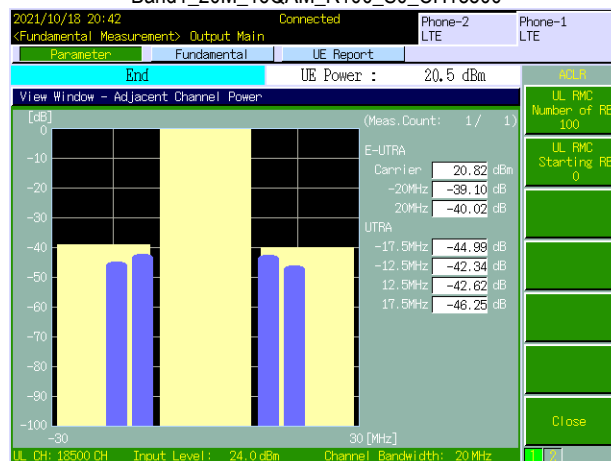
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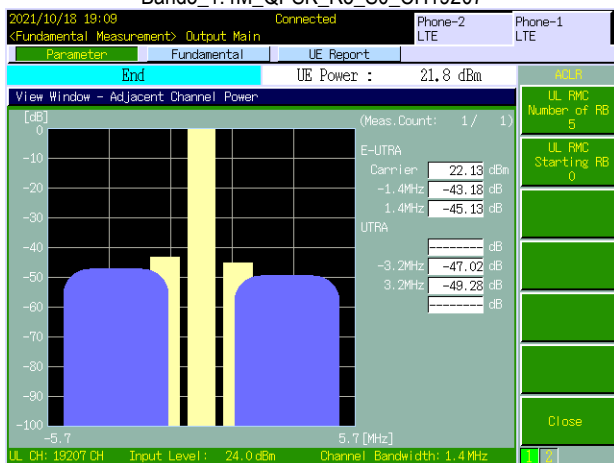


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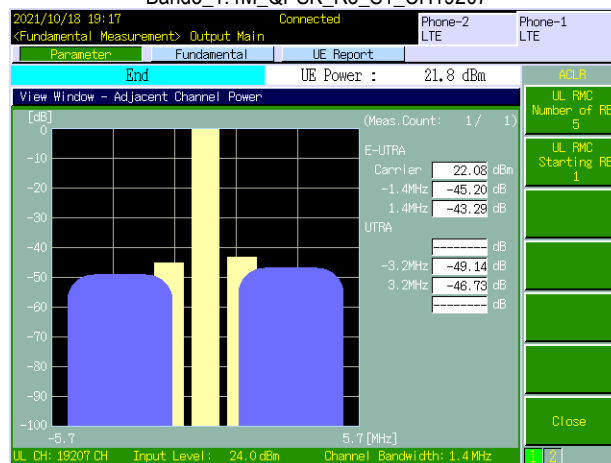
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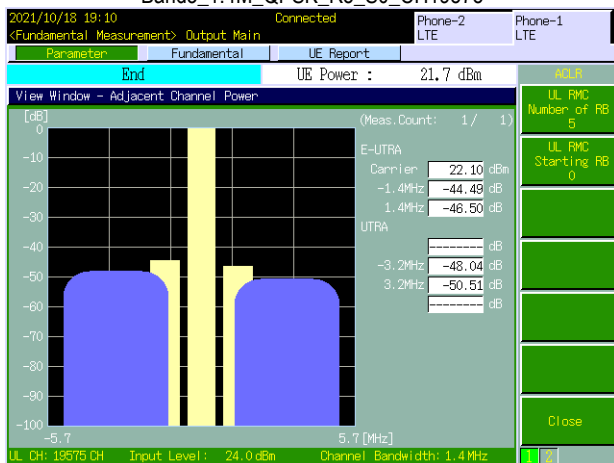
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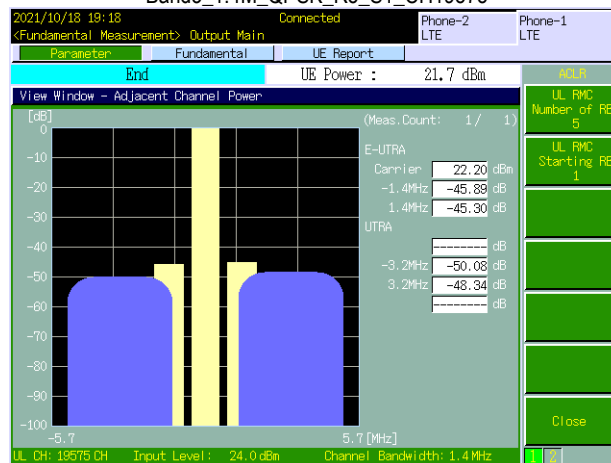
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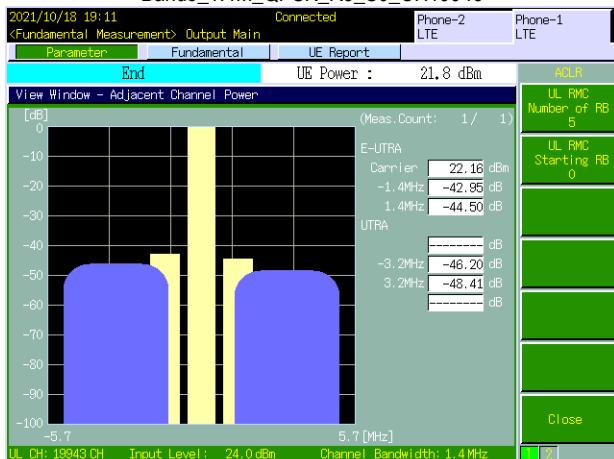
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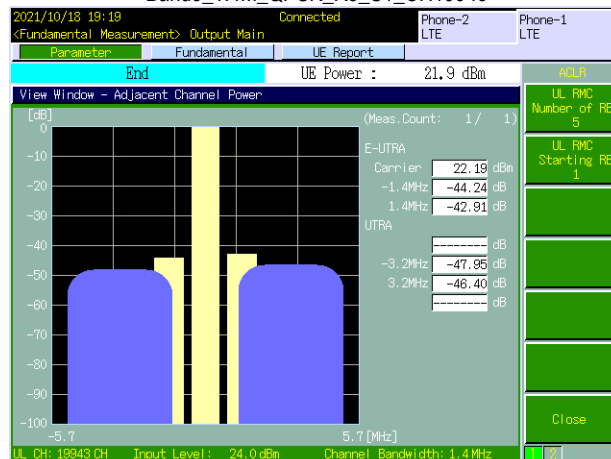
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Band3_1.4M_QPSK_R5_S0_CH19943



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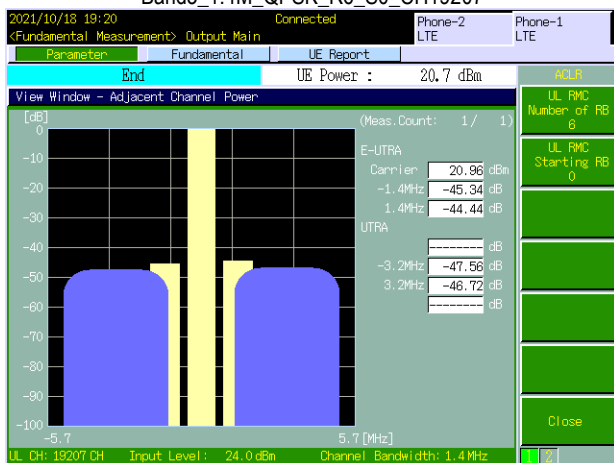


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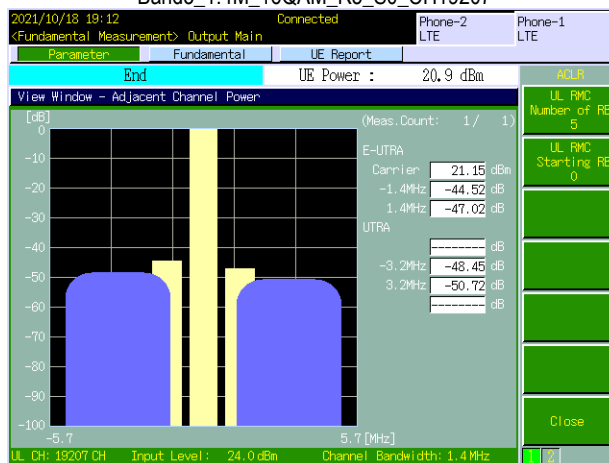
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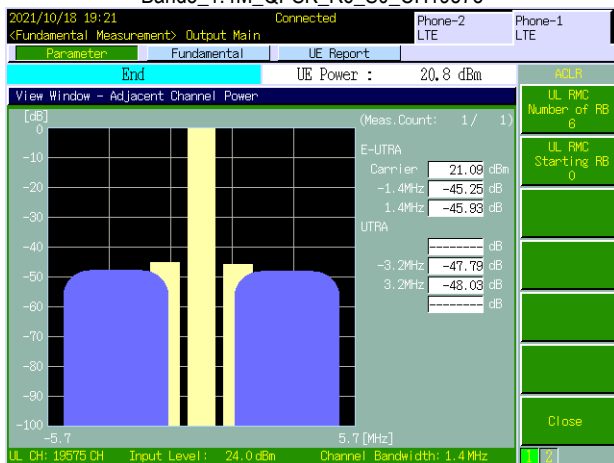
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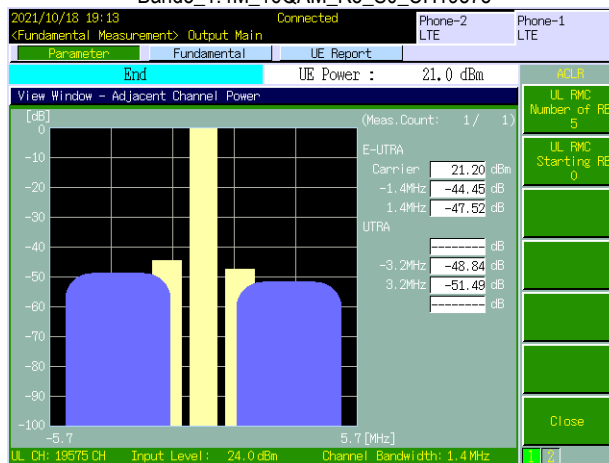
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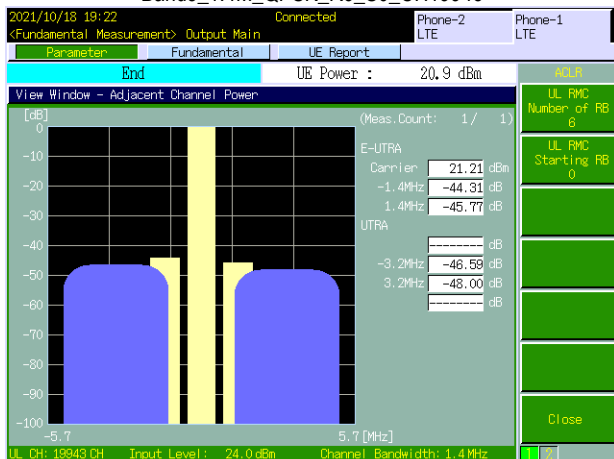
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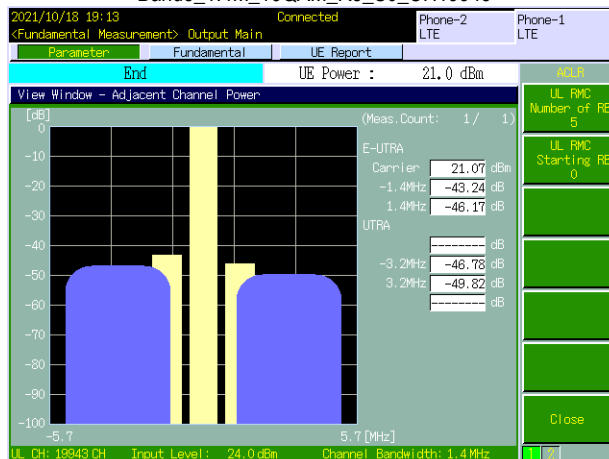
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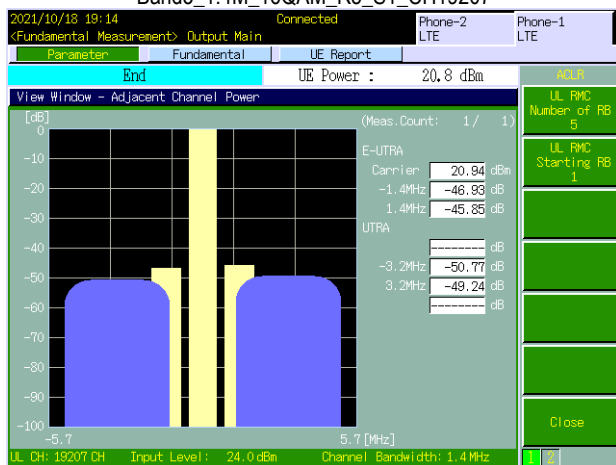


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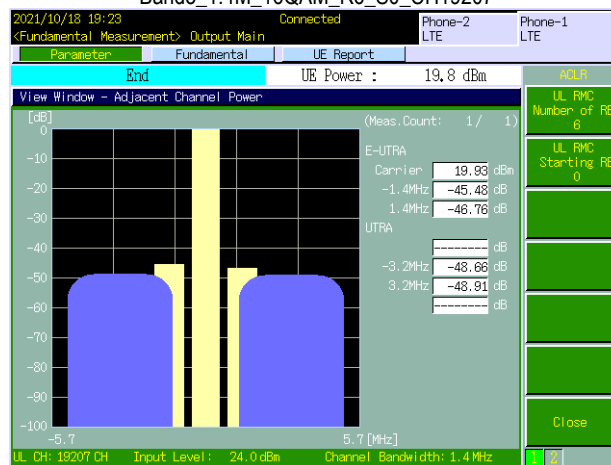
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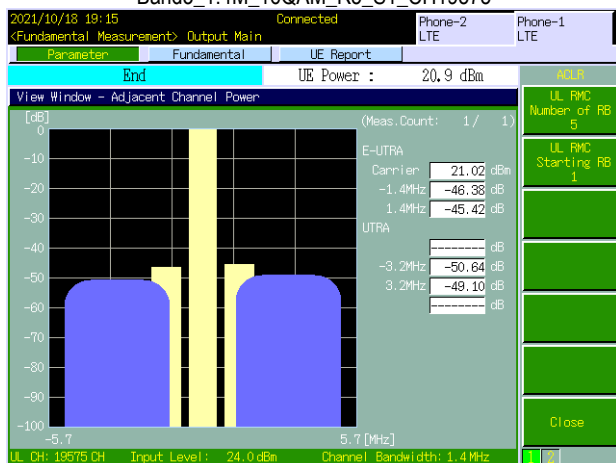
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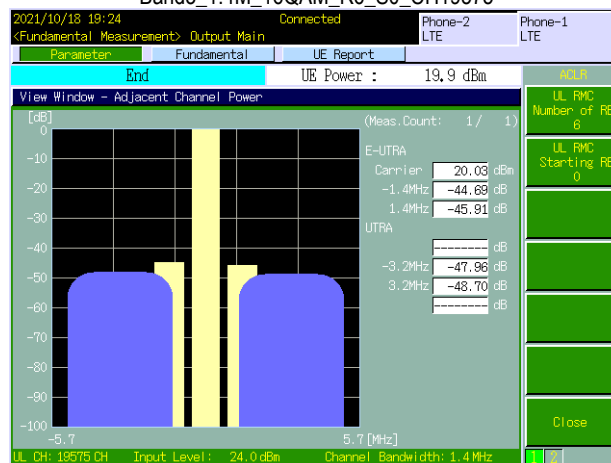
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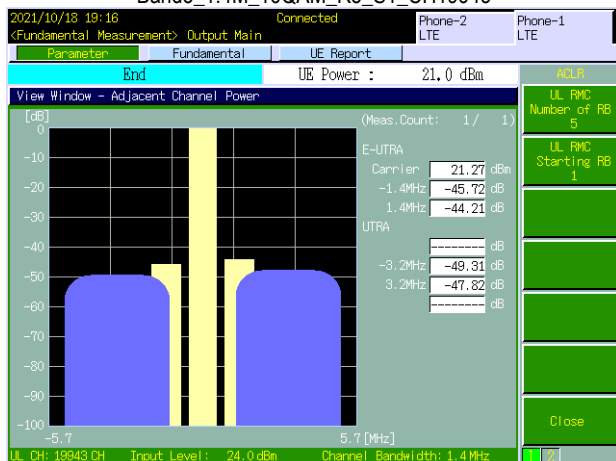
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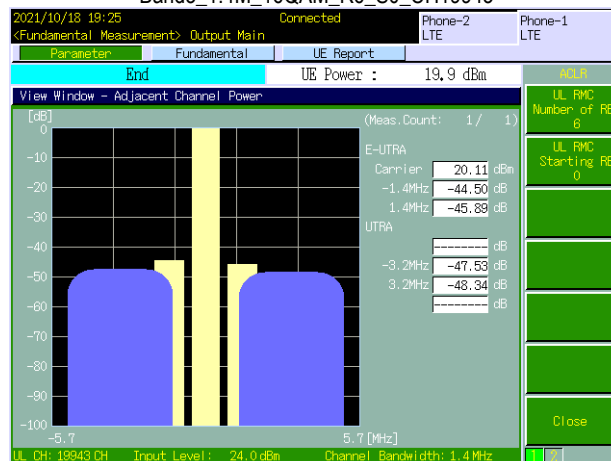
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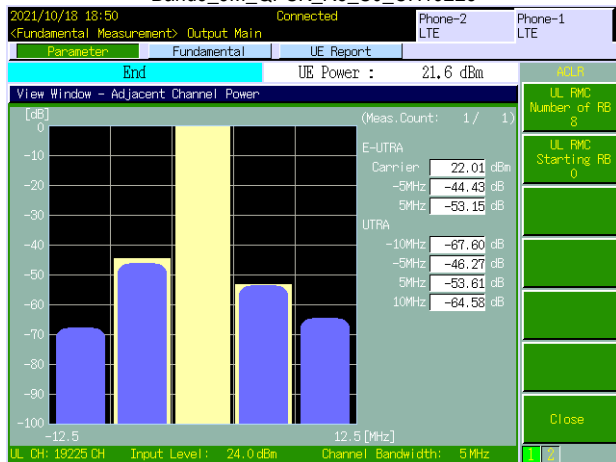


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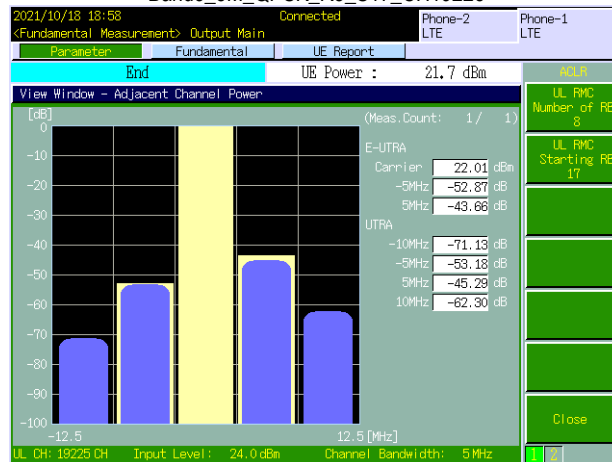
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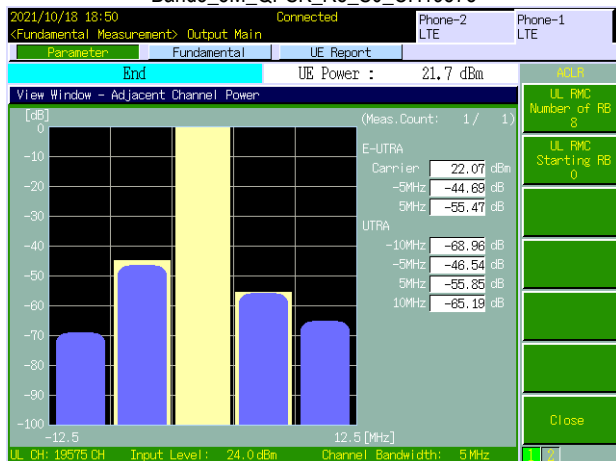
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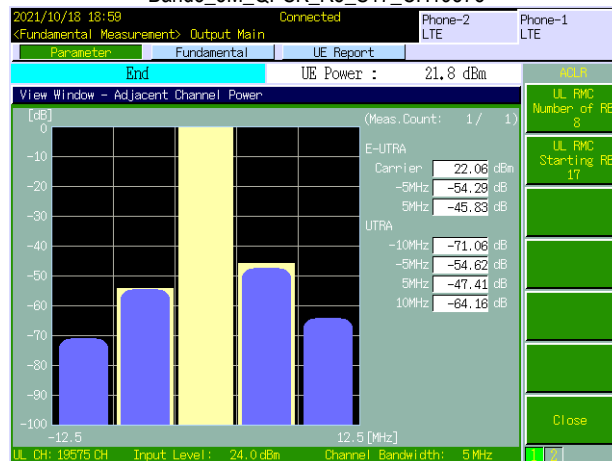
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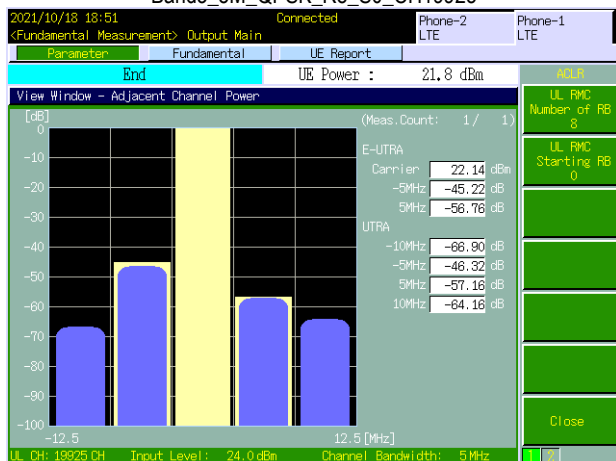
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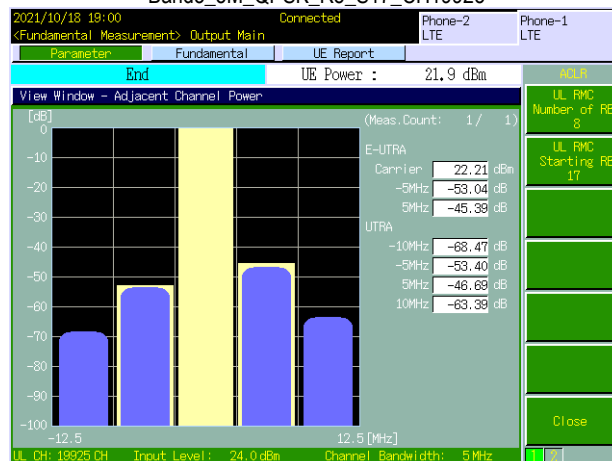
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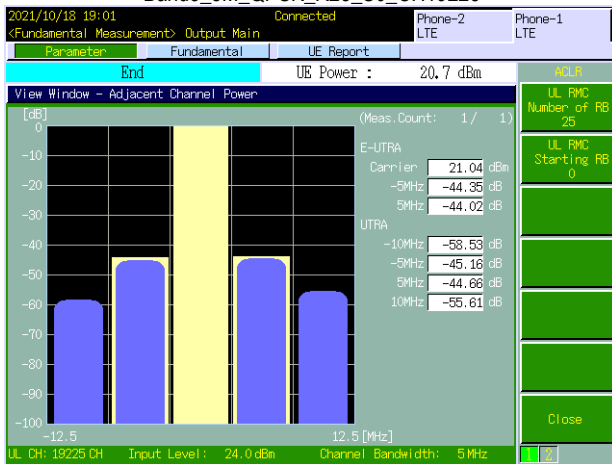


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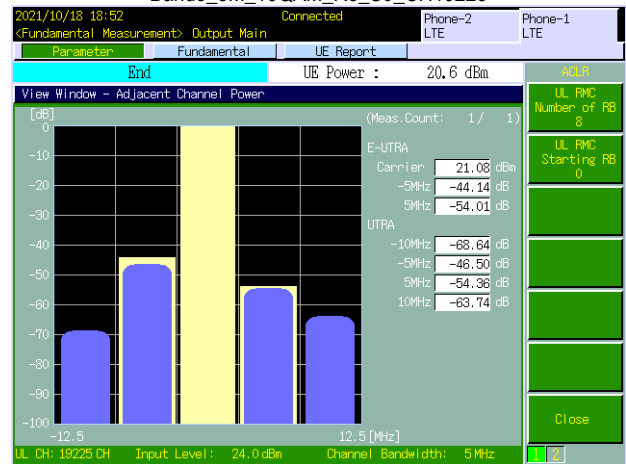
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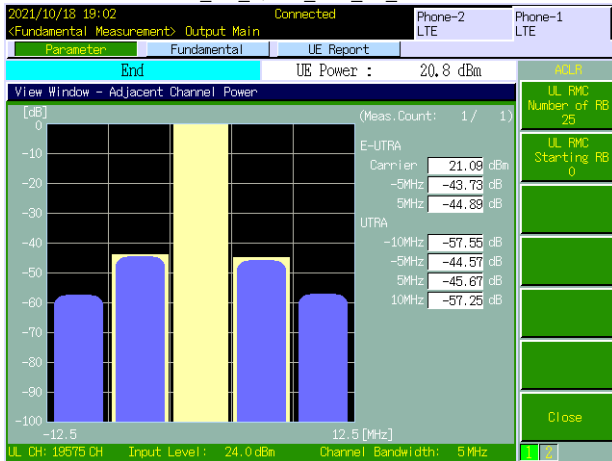
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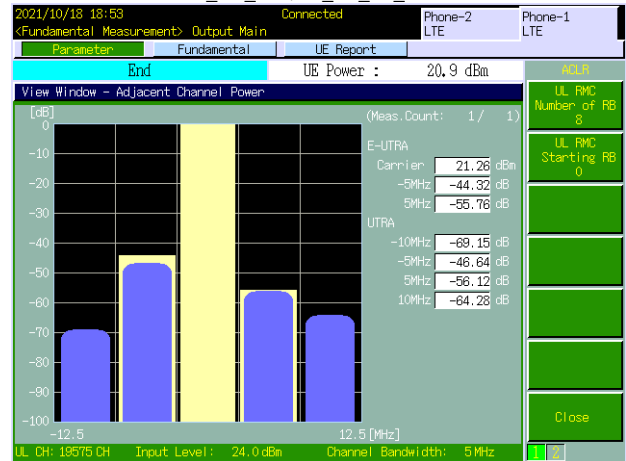
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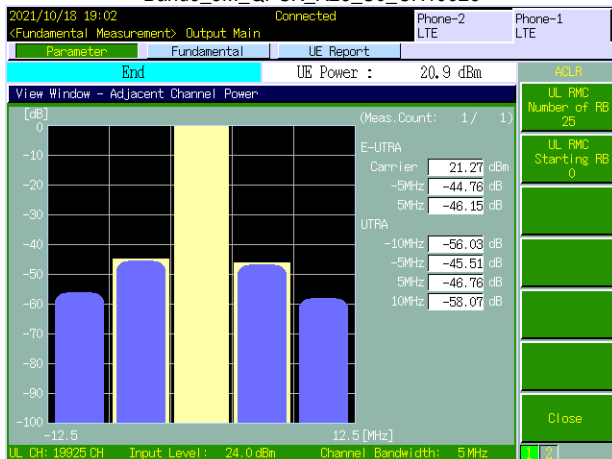
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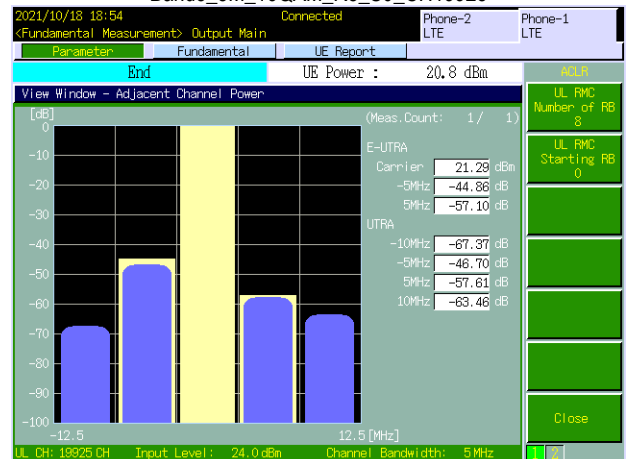
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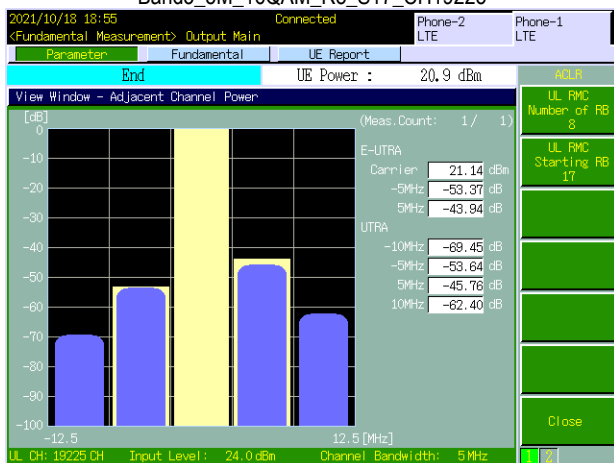


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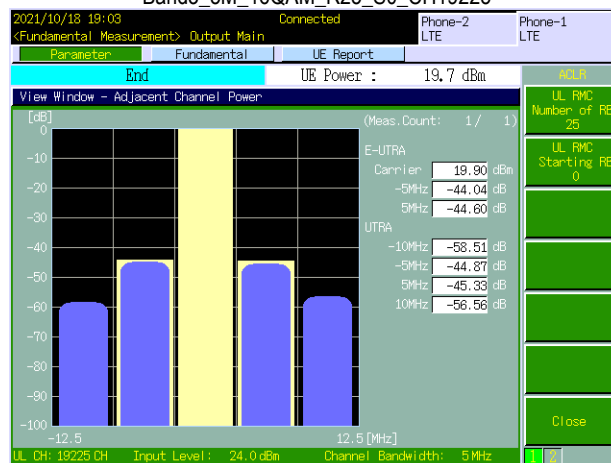
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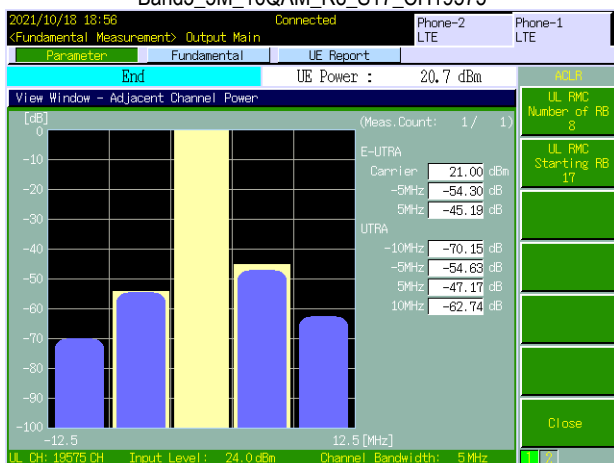
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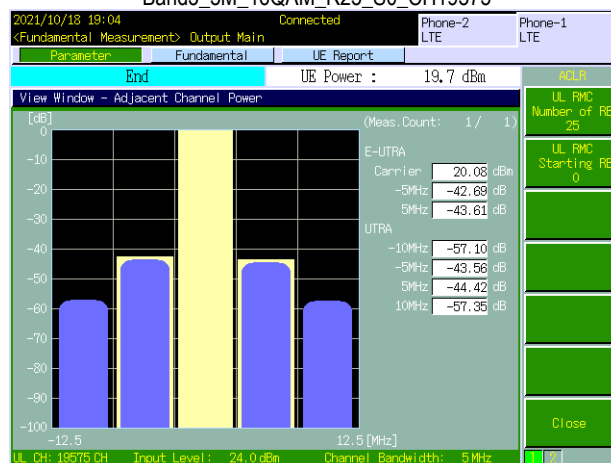
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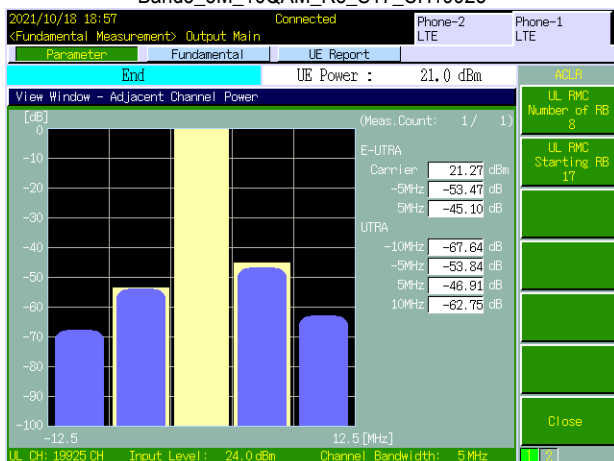
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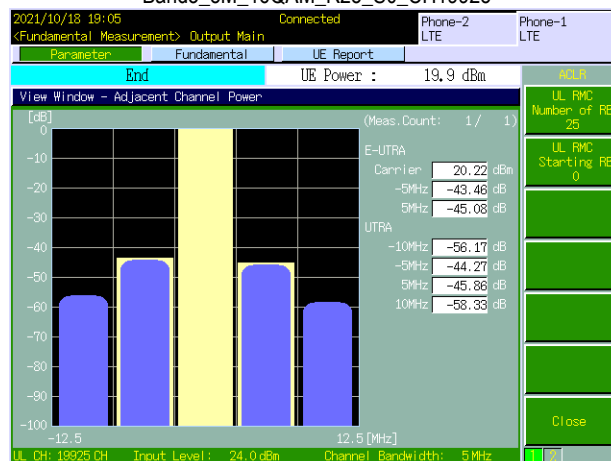
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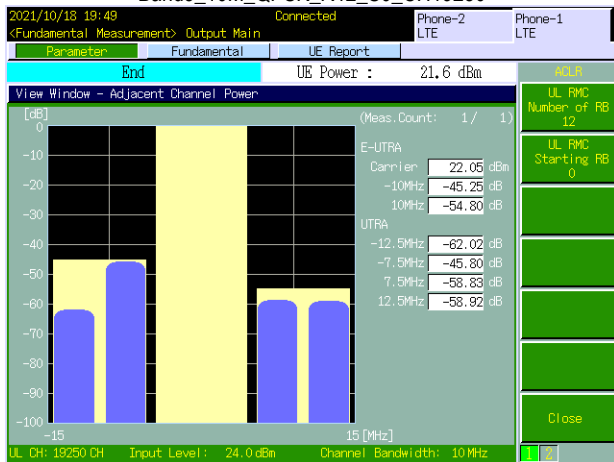


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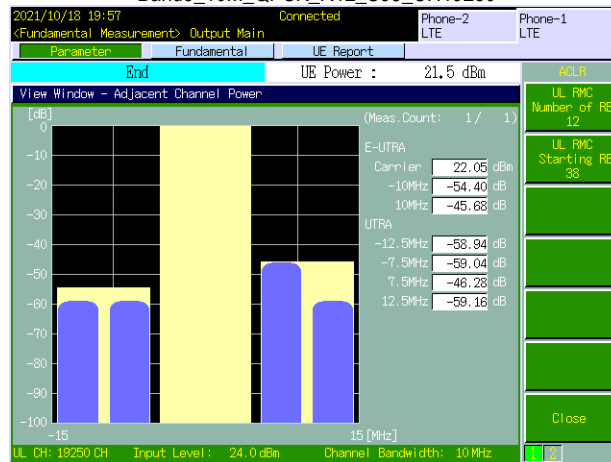
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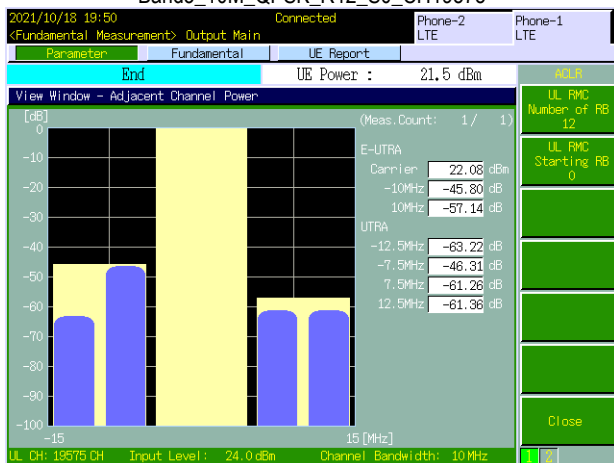
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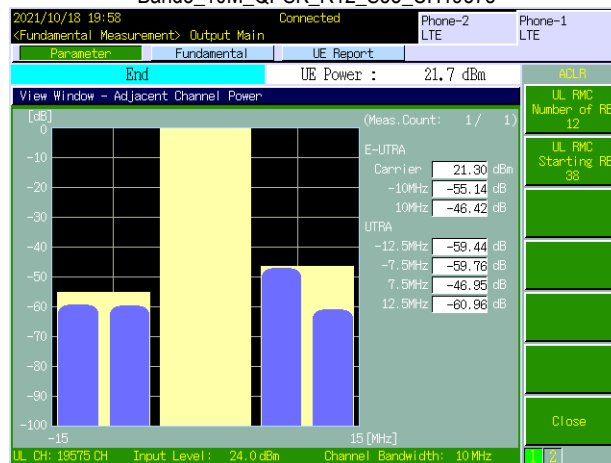
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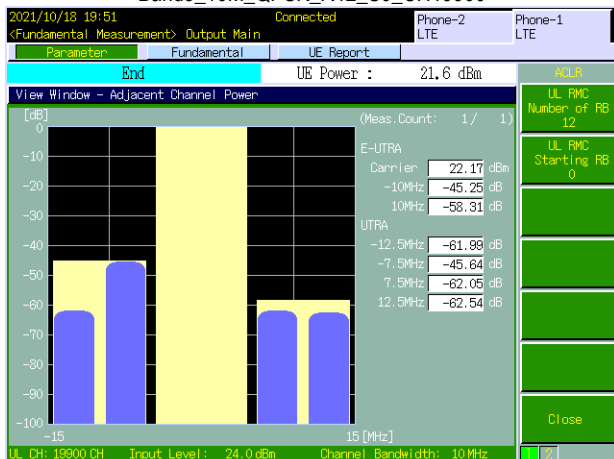
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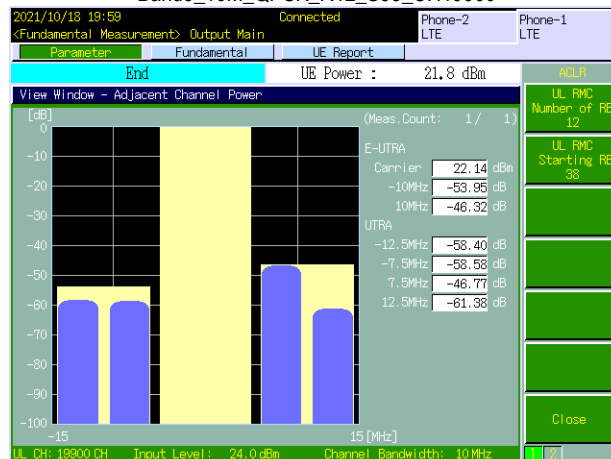
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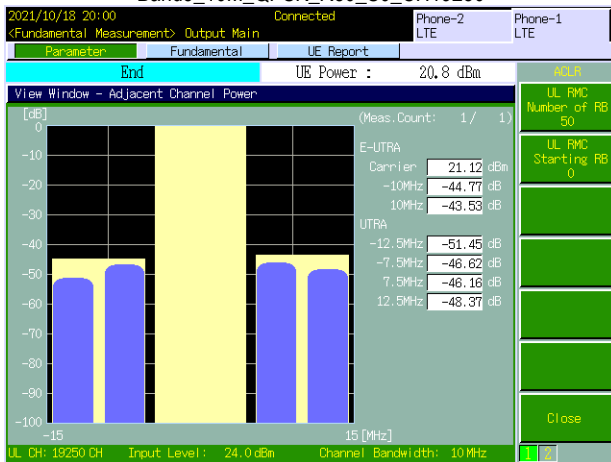


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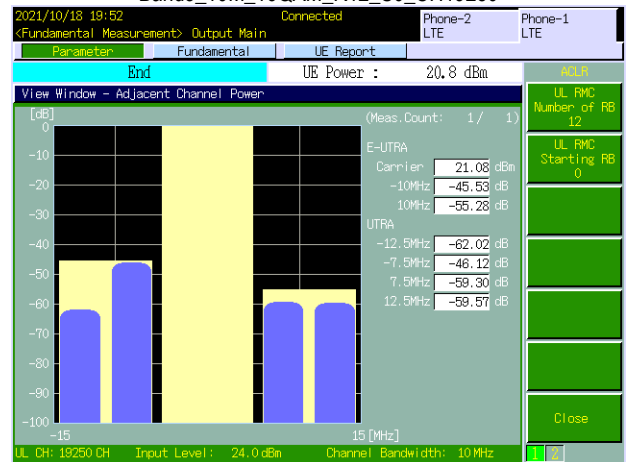
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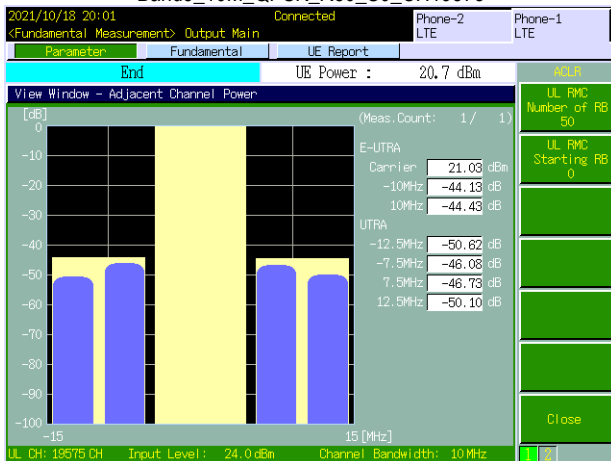
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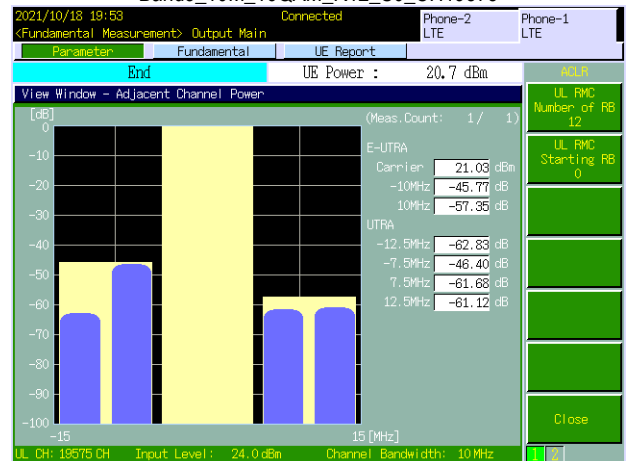
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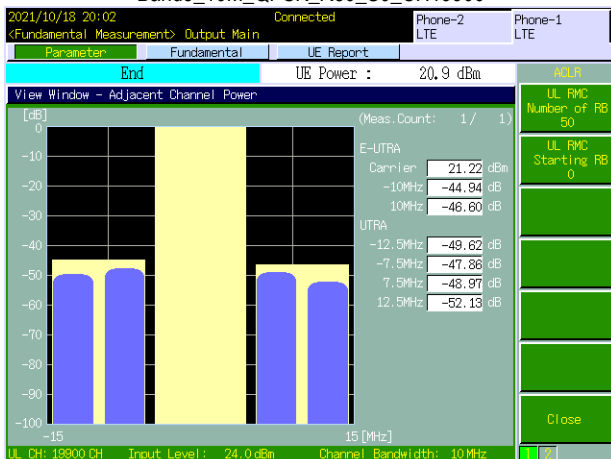
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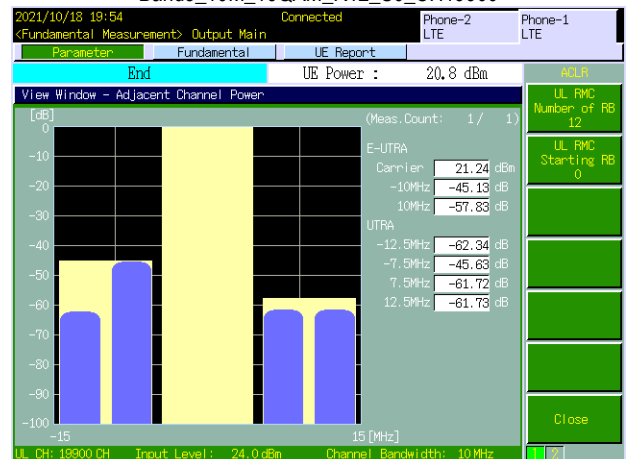
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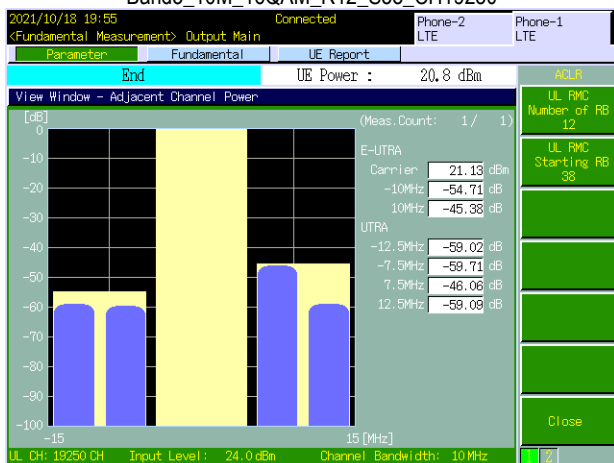


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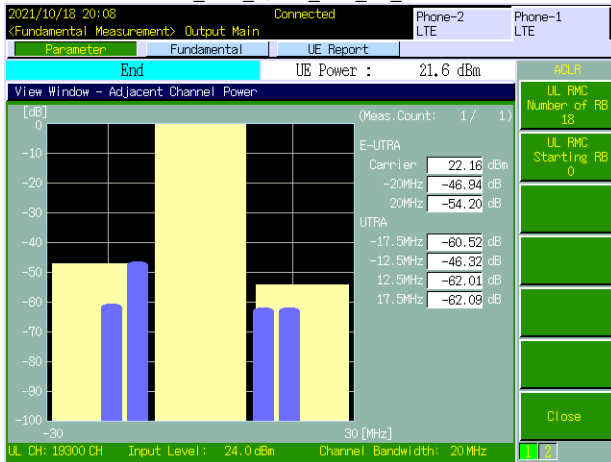
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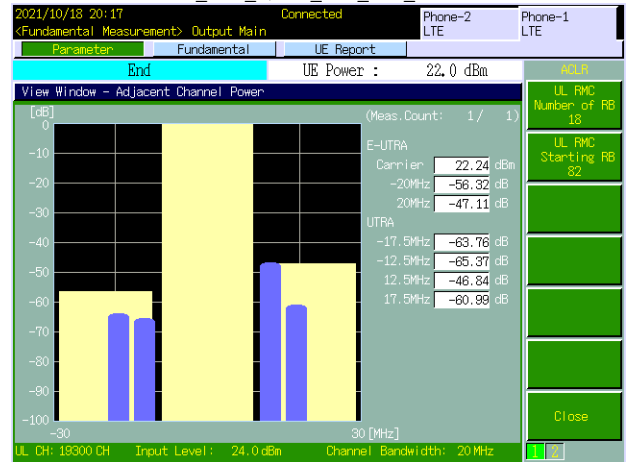
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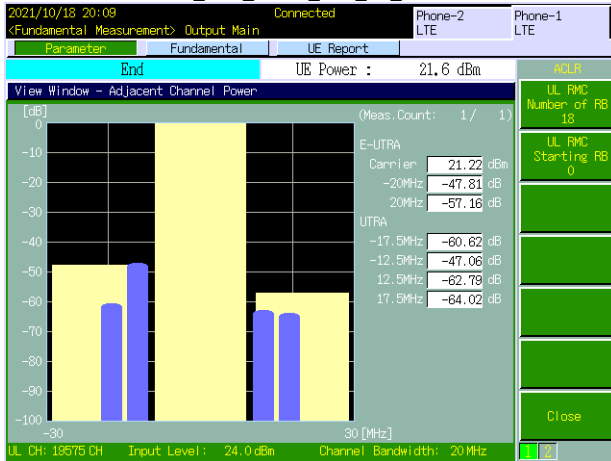
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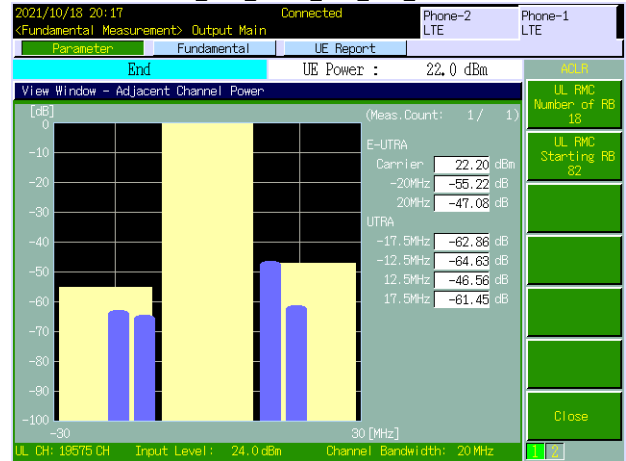
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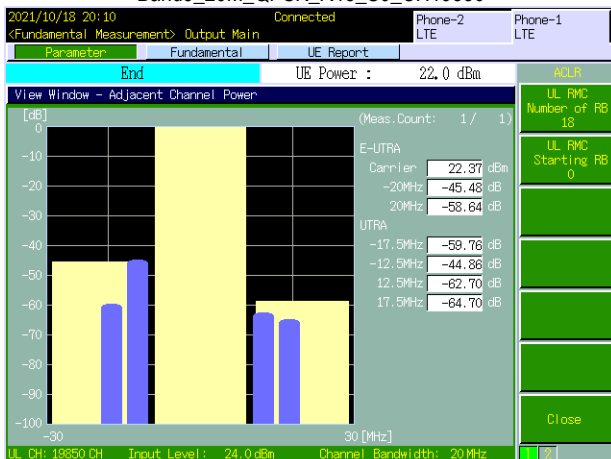
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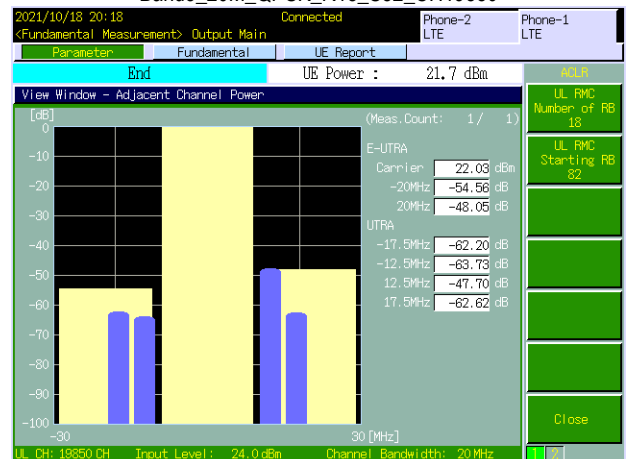
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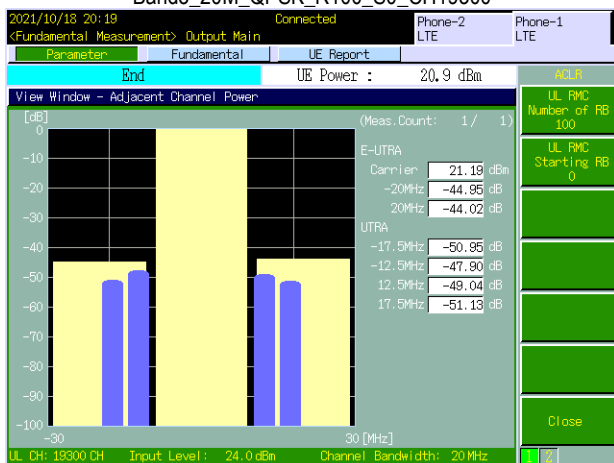


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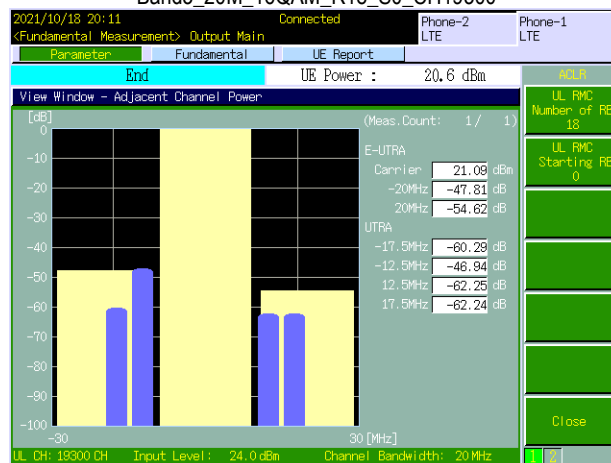
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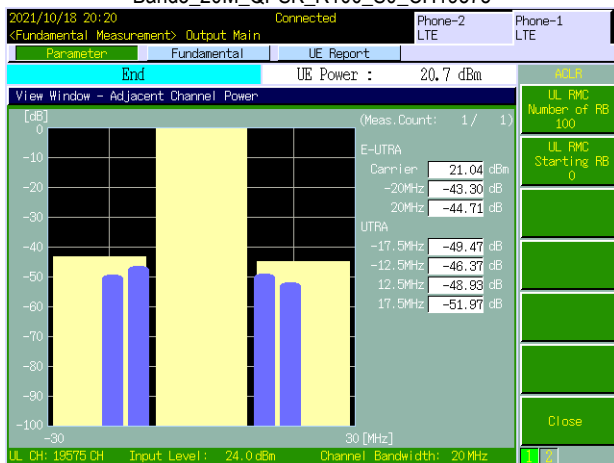
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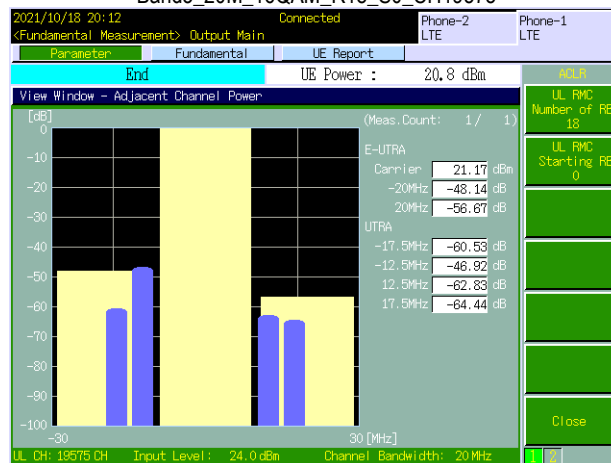
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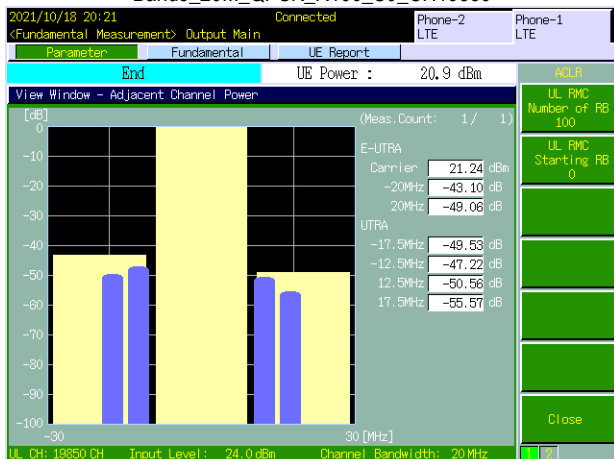
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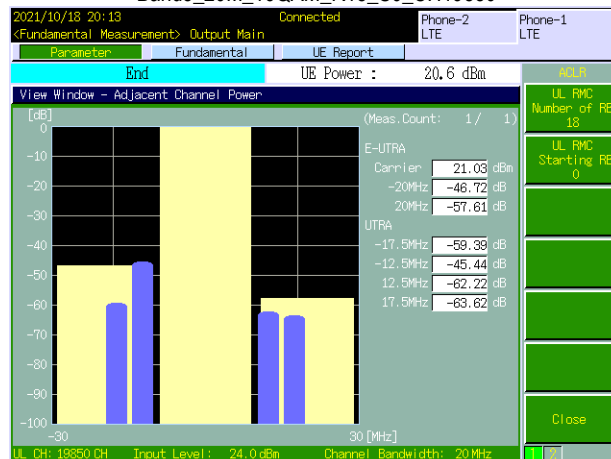
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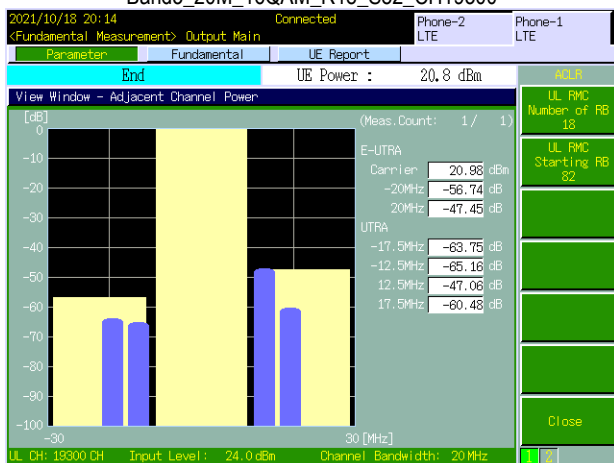


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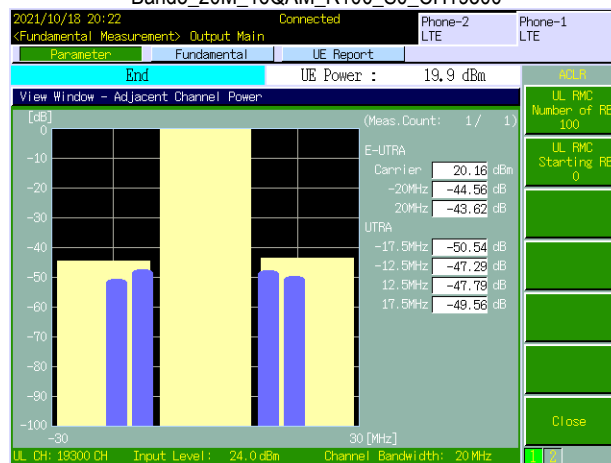
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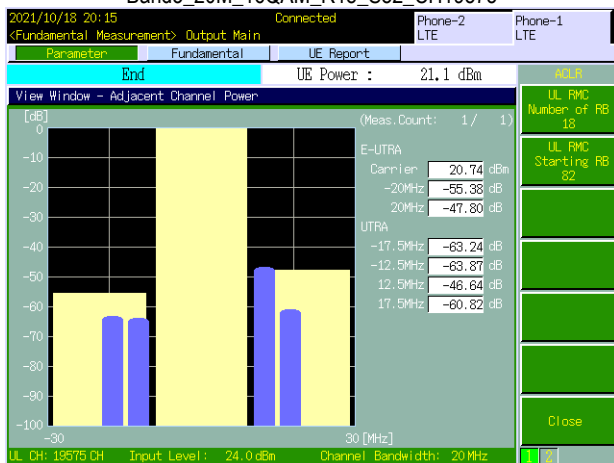
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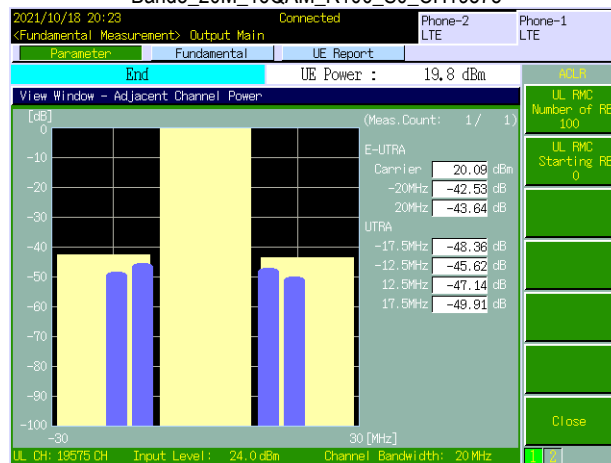
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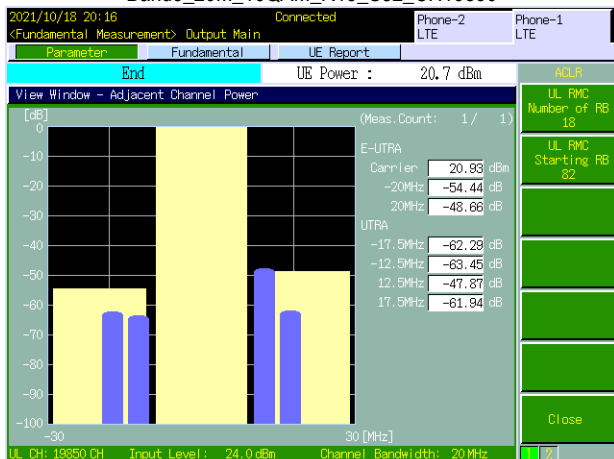
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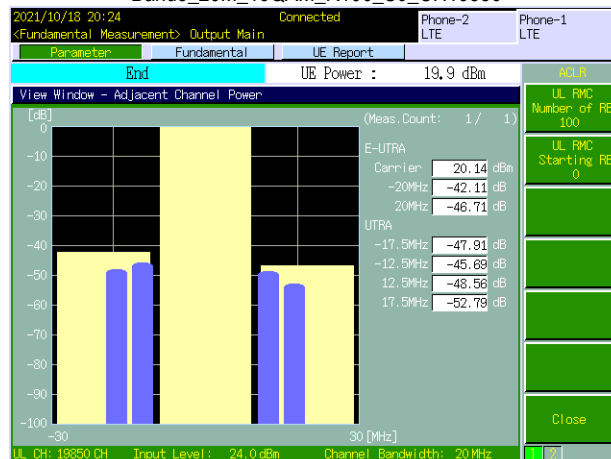
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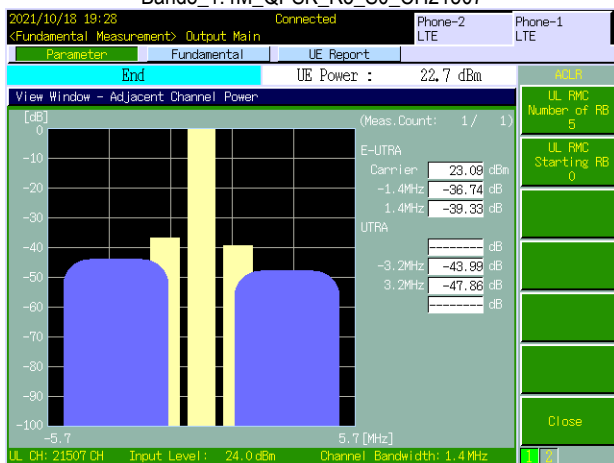


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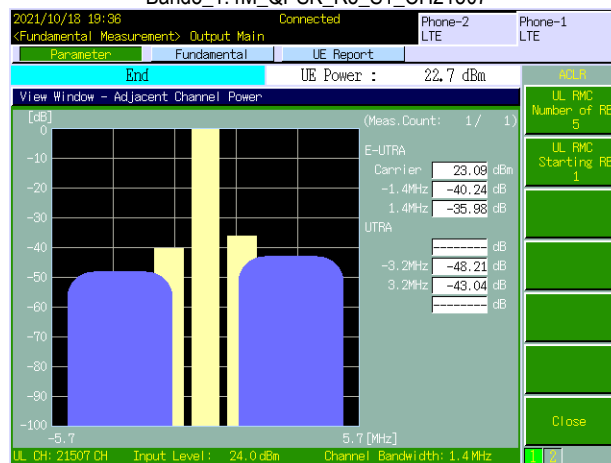
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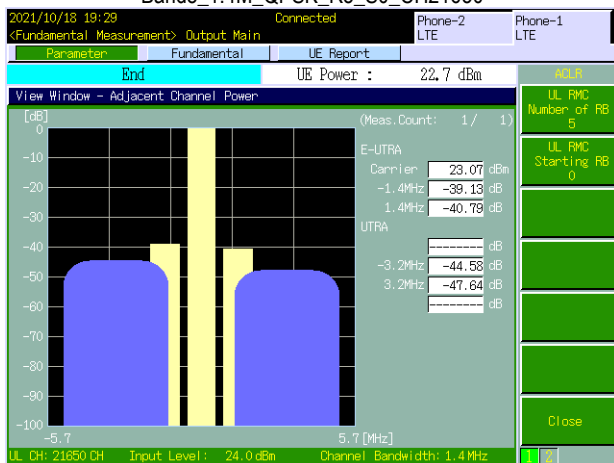
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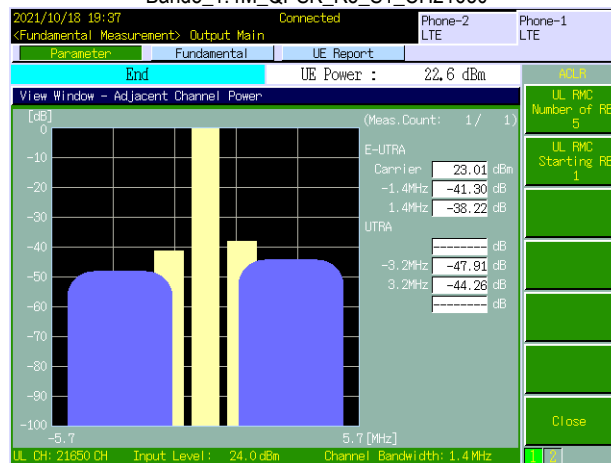
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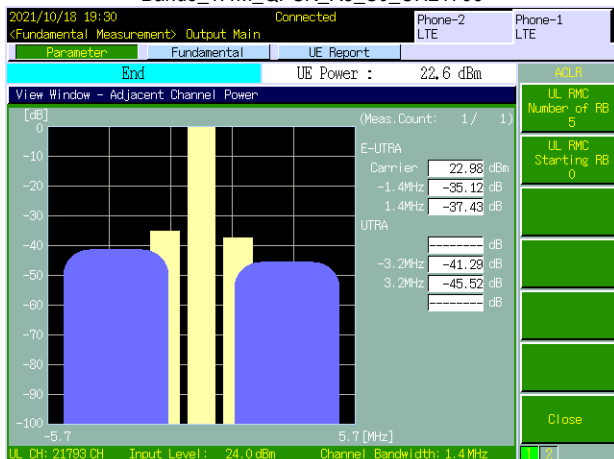
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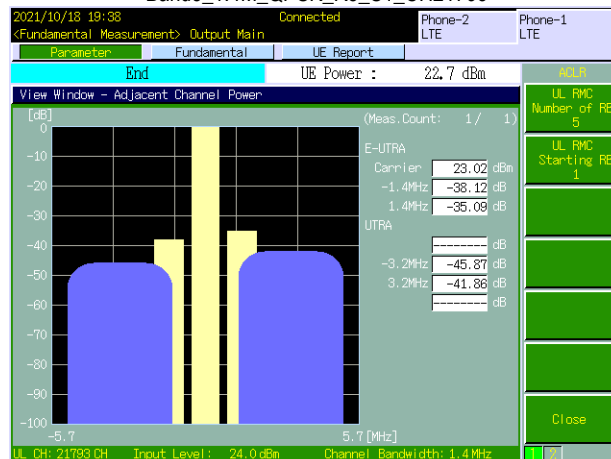
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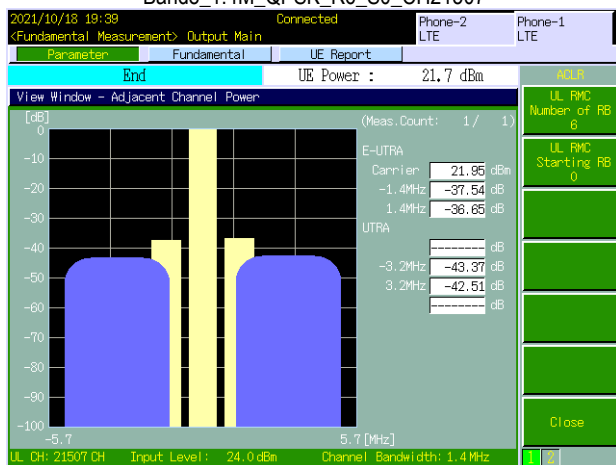


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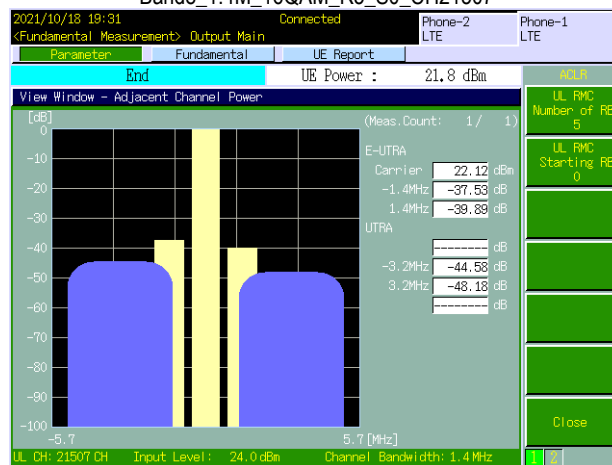
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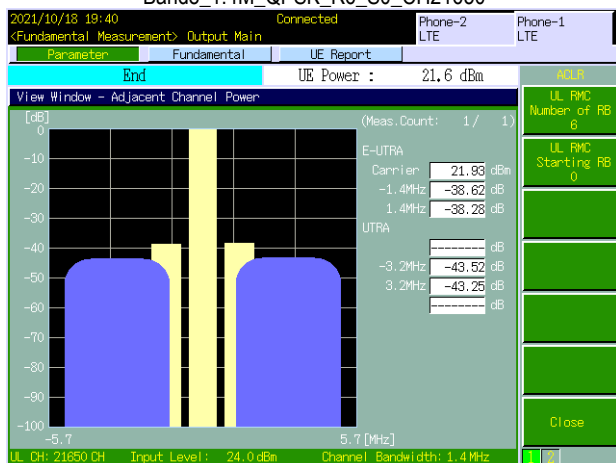
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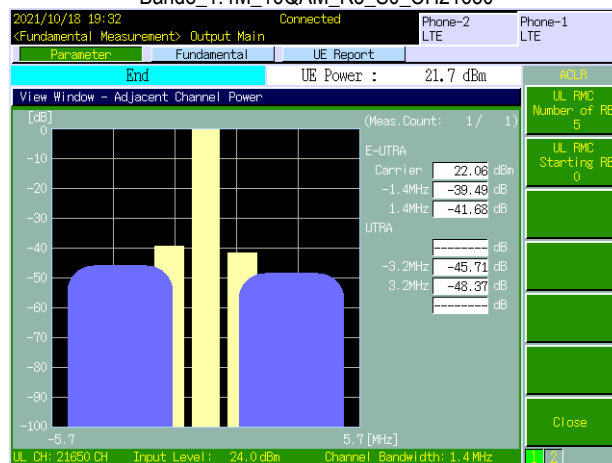
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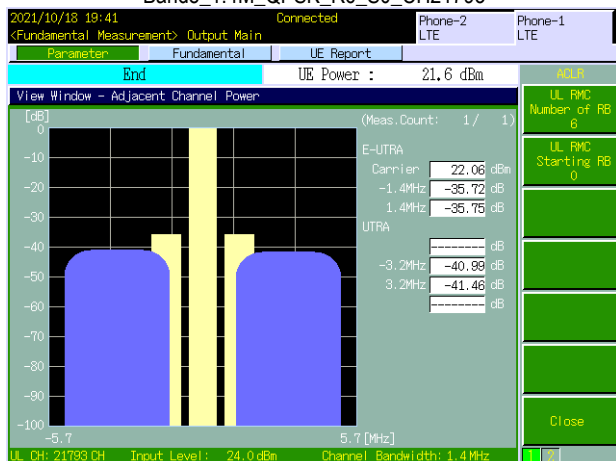
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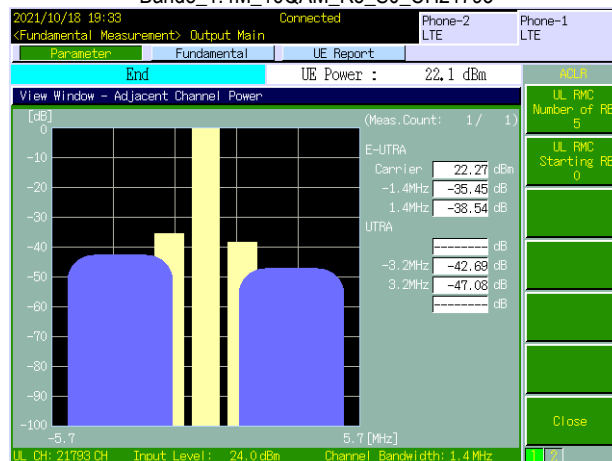
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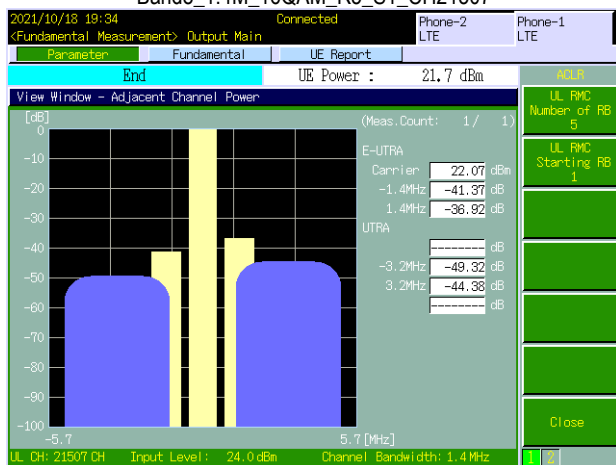


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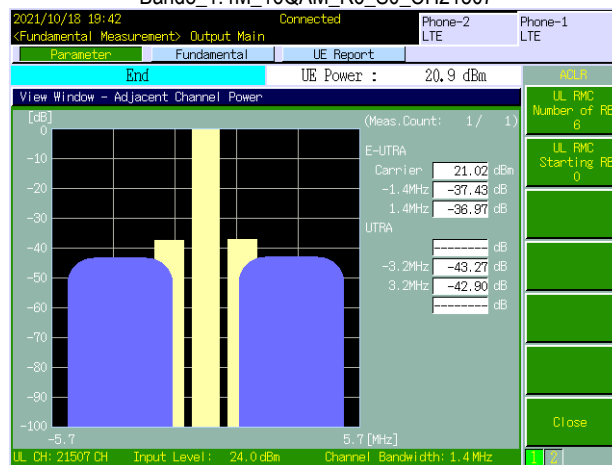
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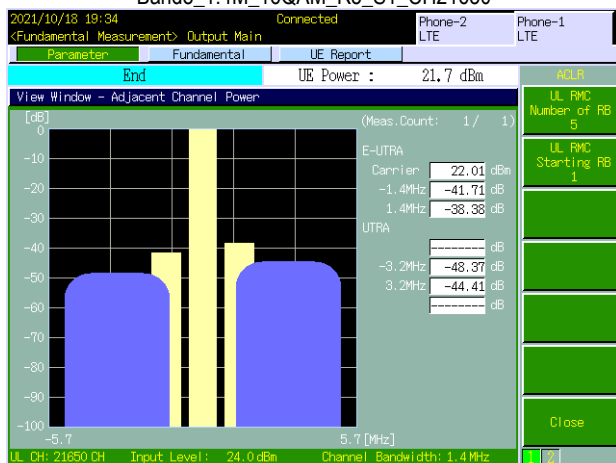
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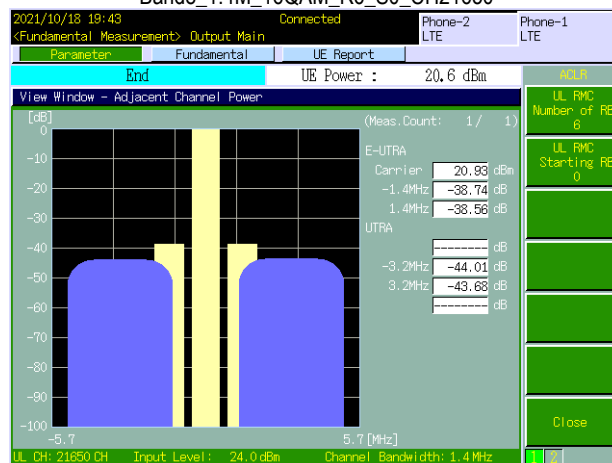
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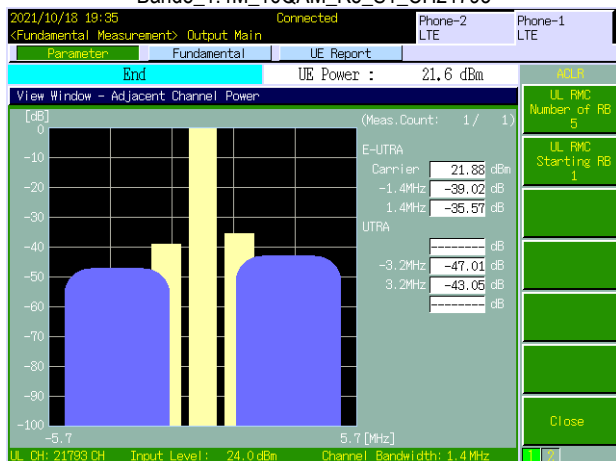
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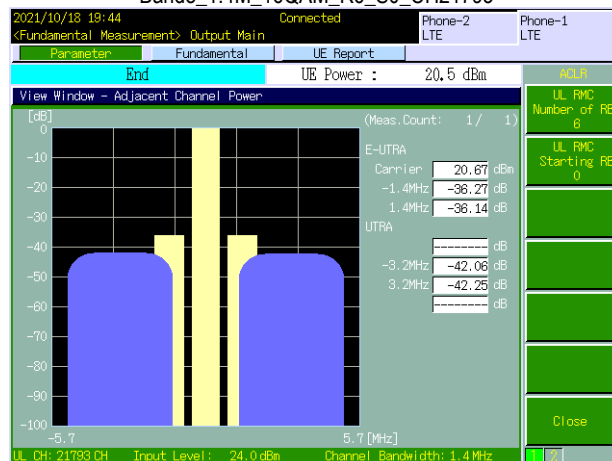
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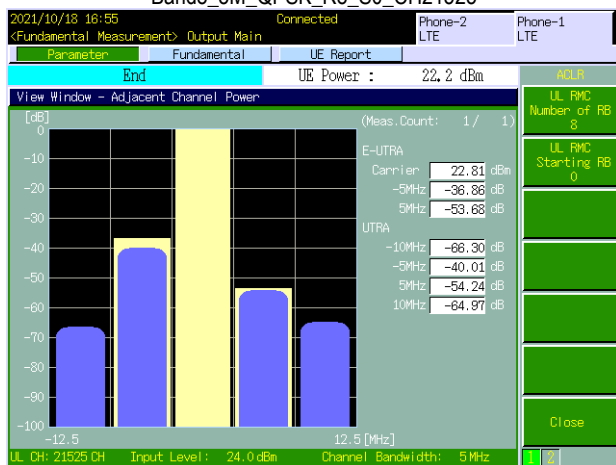


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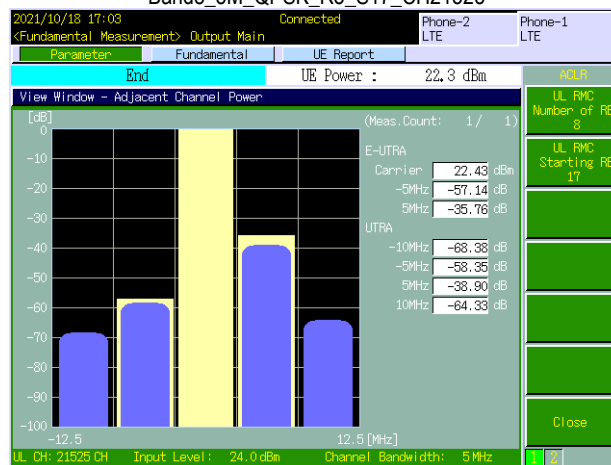
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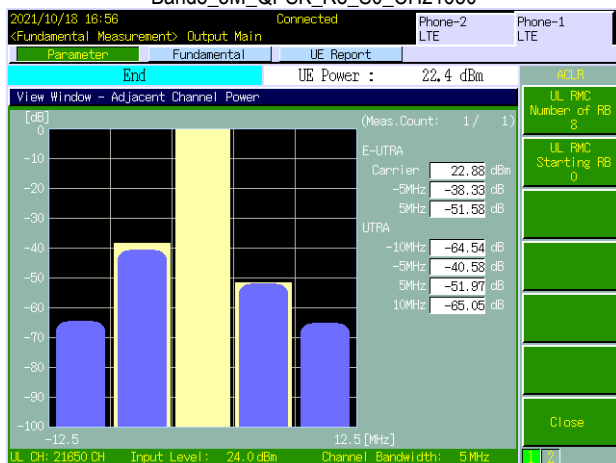
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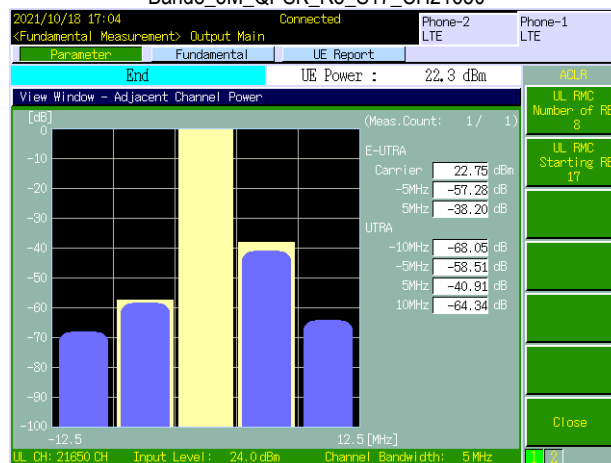
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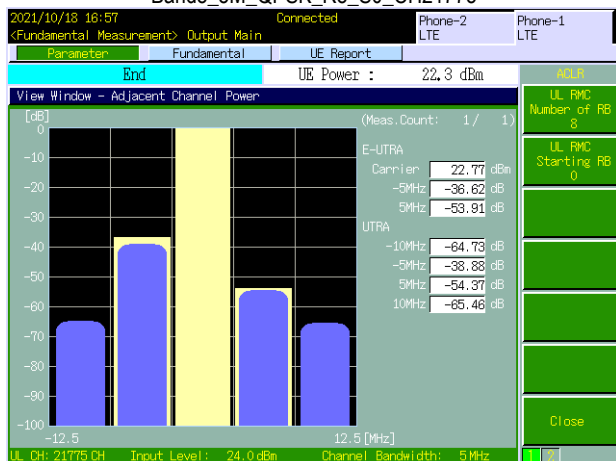
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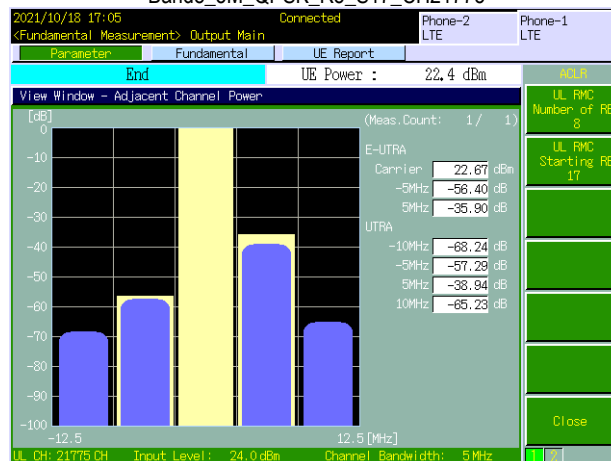
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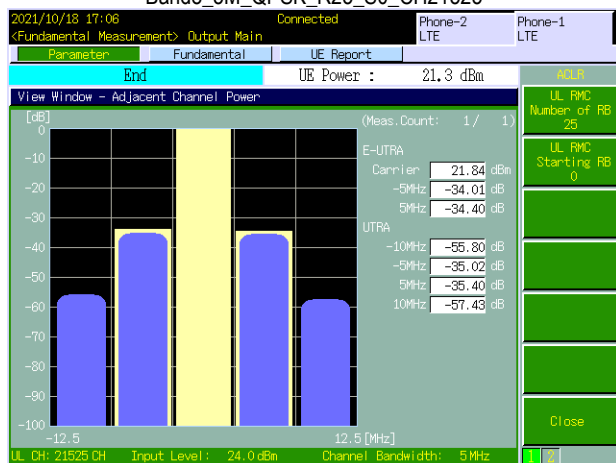


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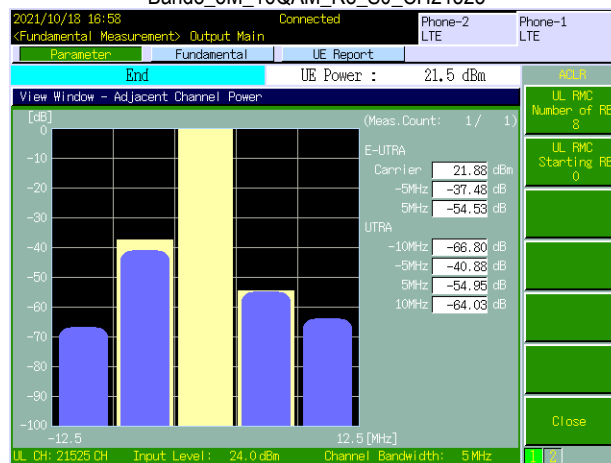
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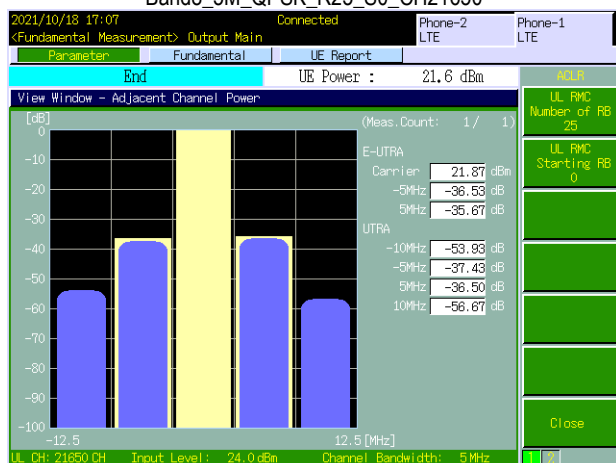
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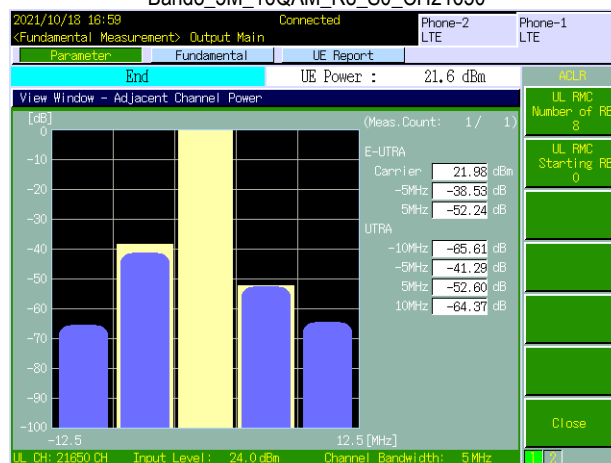
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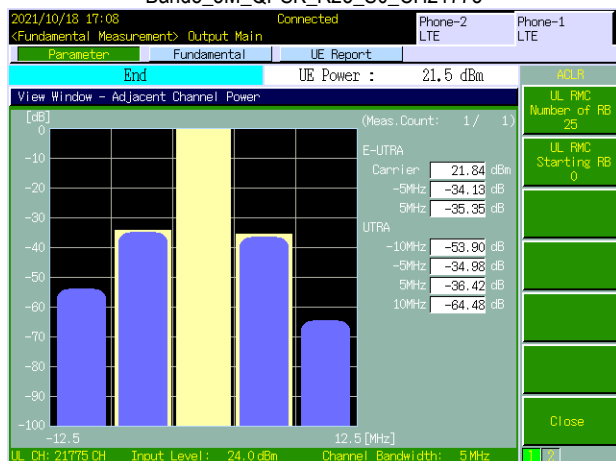
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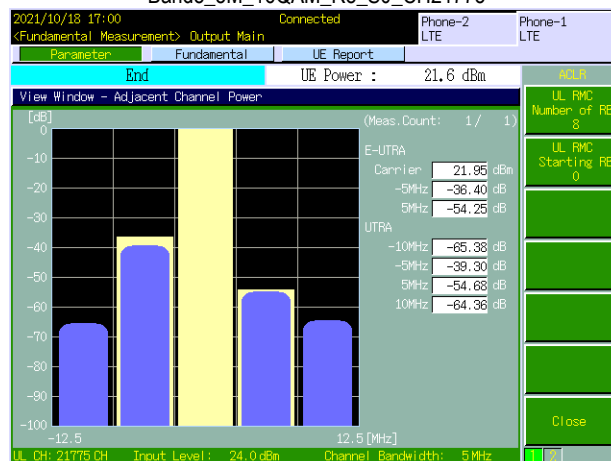
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Band8_5M_QPSK_R25_S0_CH21775



Band8_5M_16QAM_R8_S0_CH21775

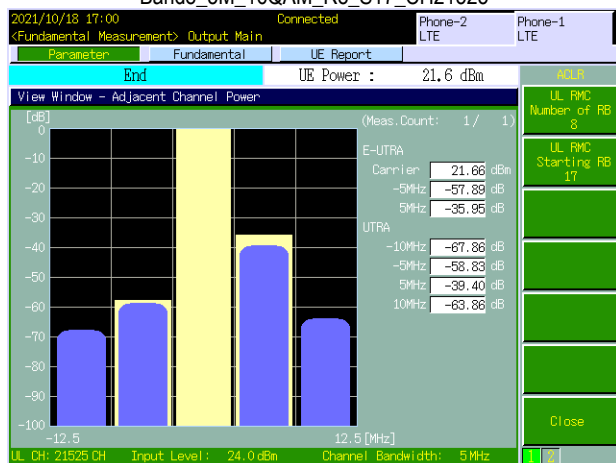


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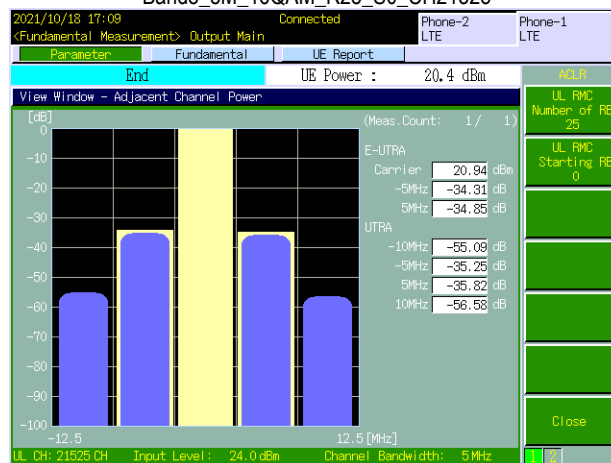
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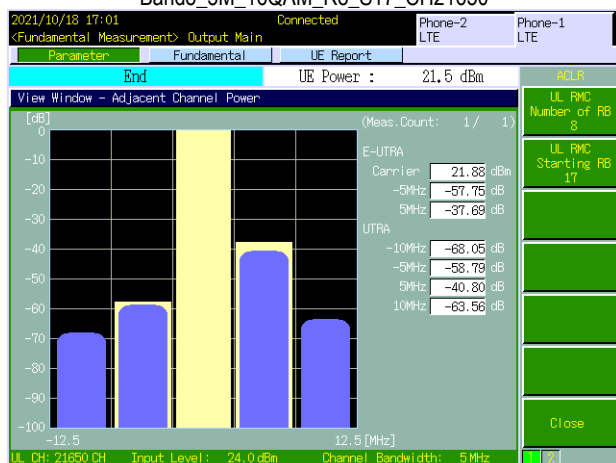
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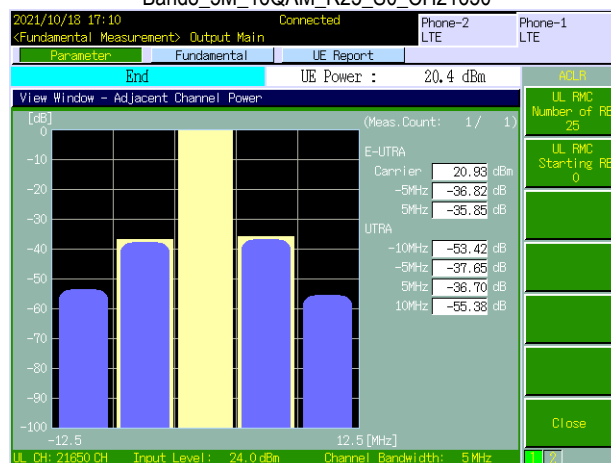
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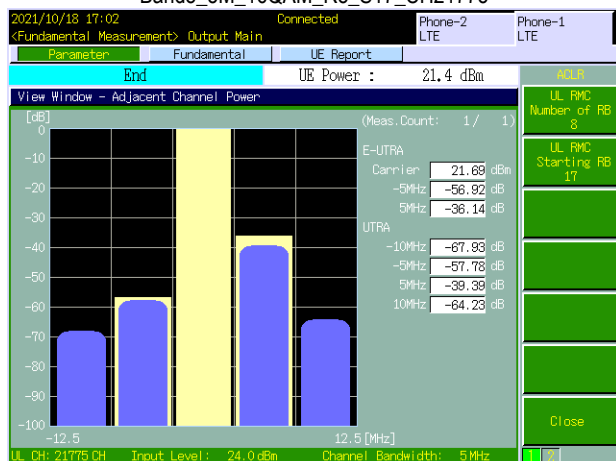
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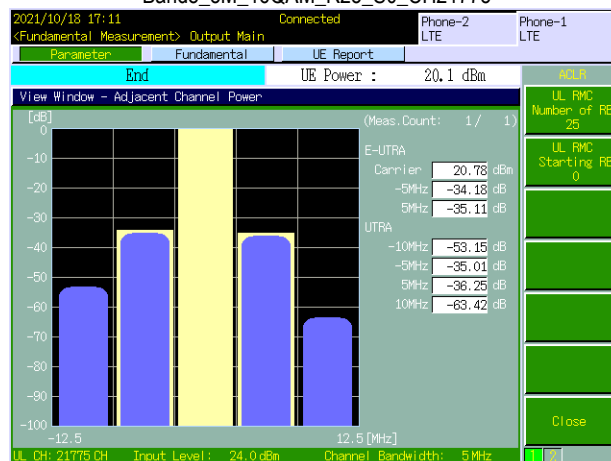
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Band8_5M_16QAM_R8_S17_CH21775



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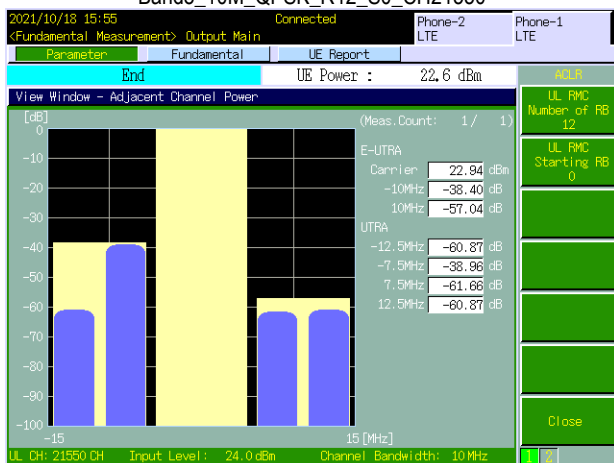


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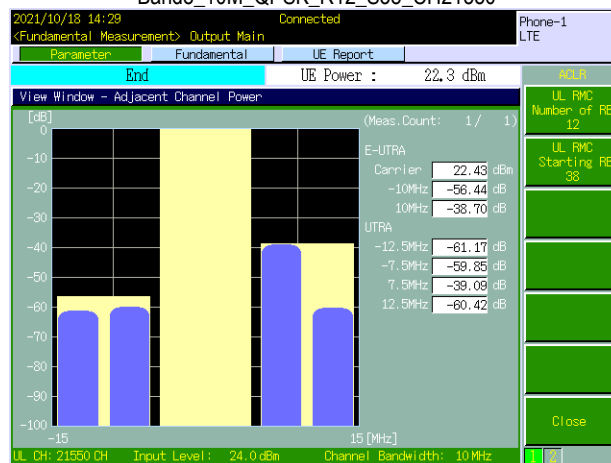
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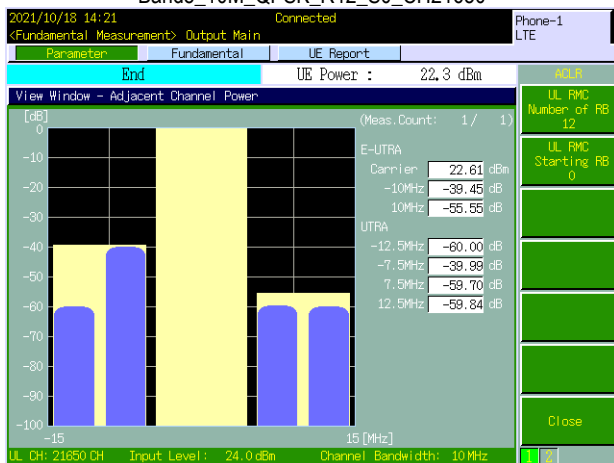
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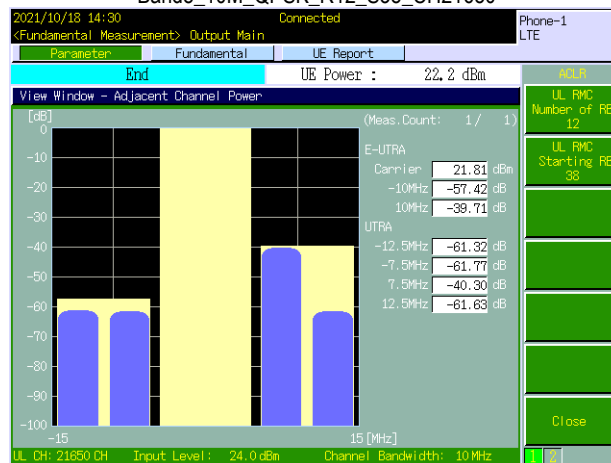
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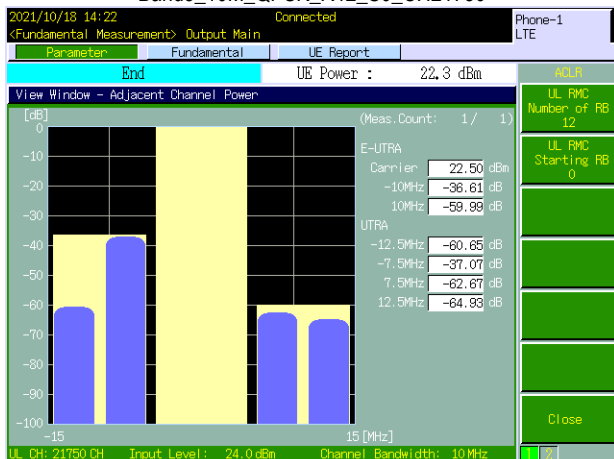
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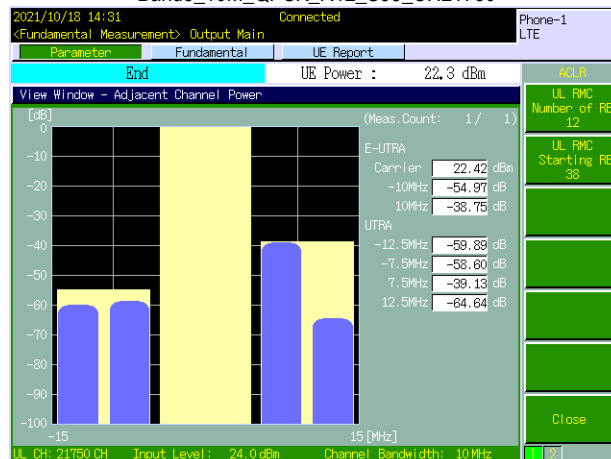
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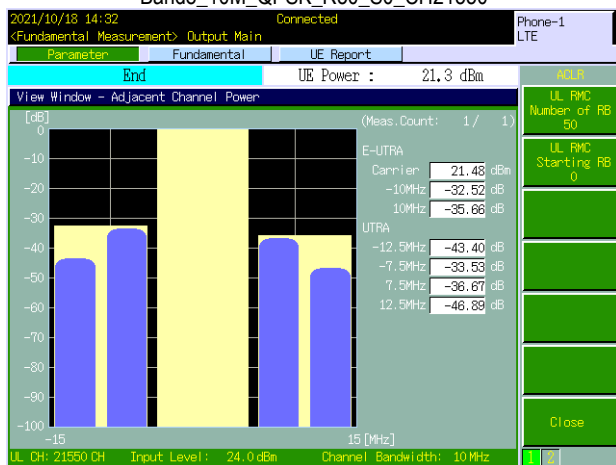


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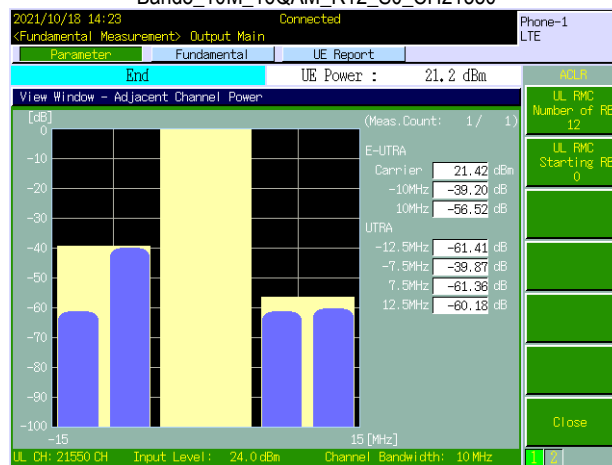
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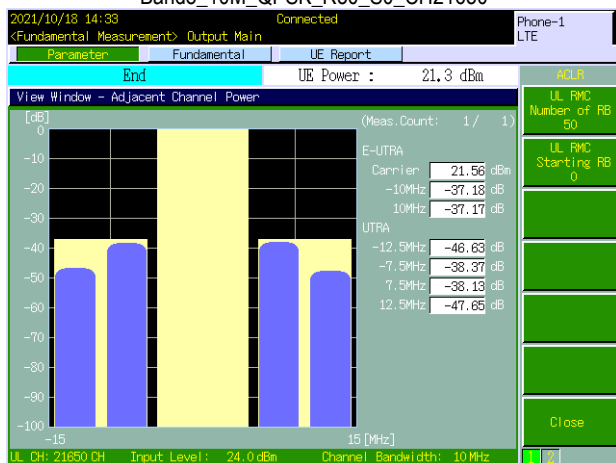
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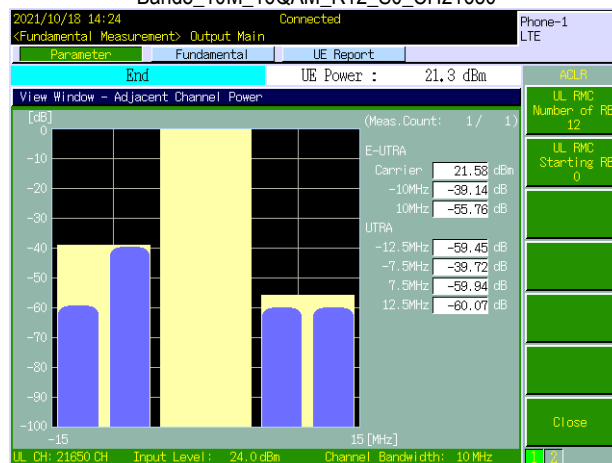
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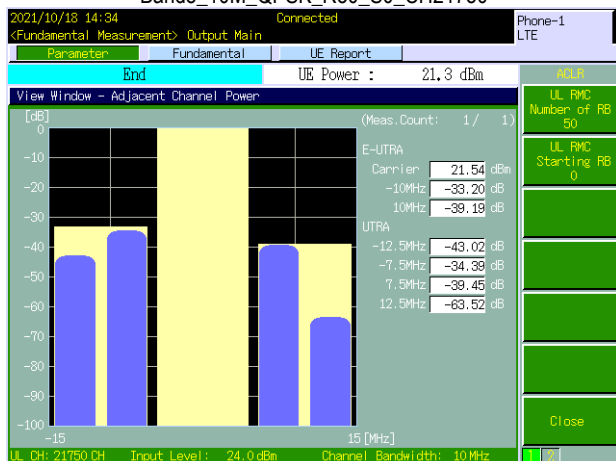
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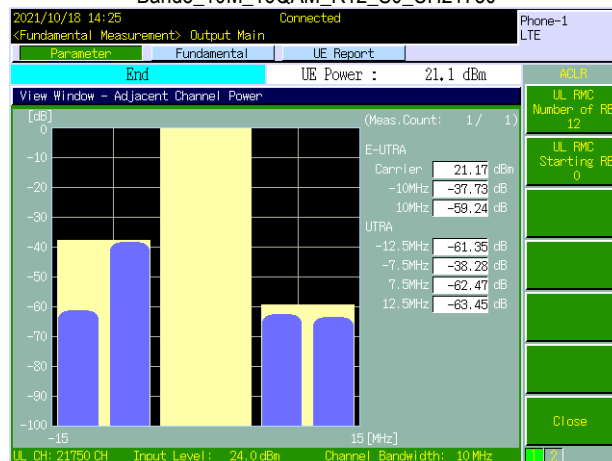
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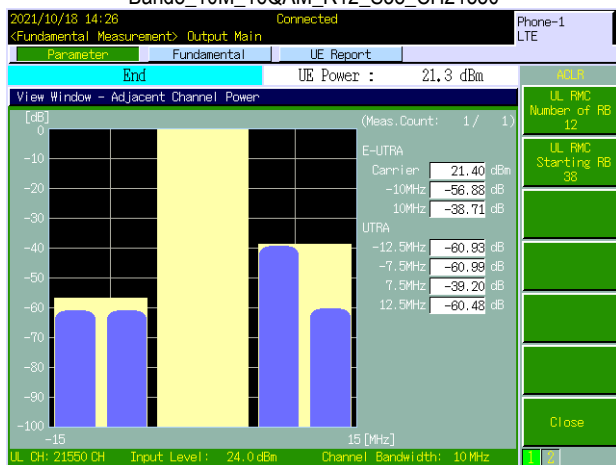


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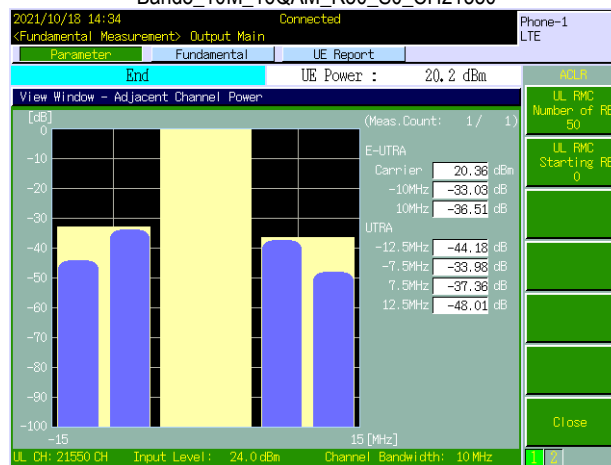
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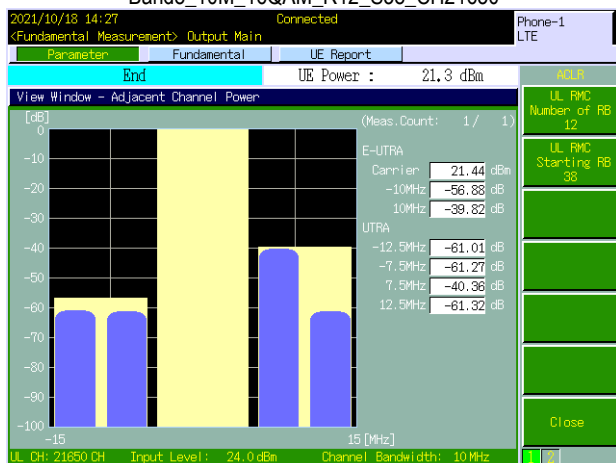
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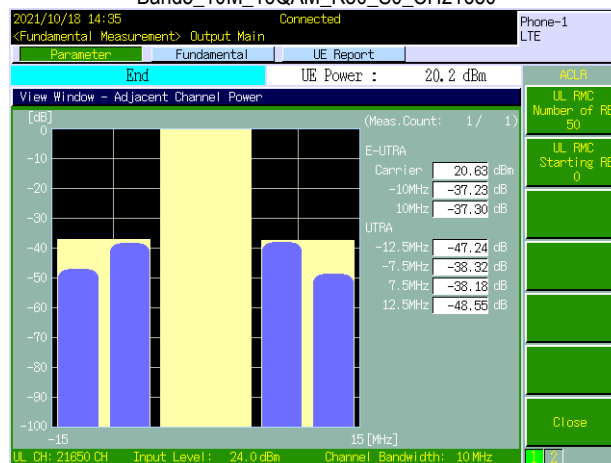
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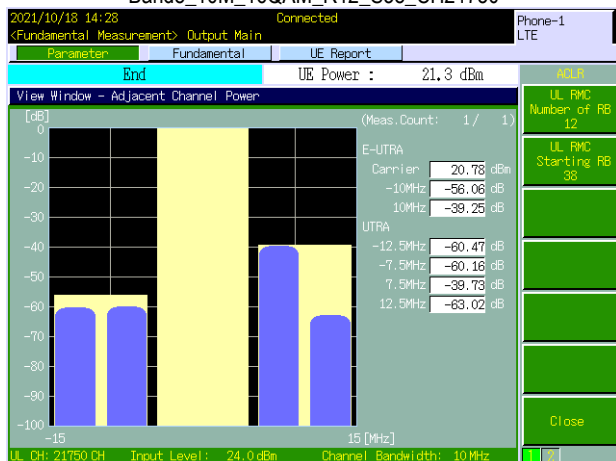
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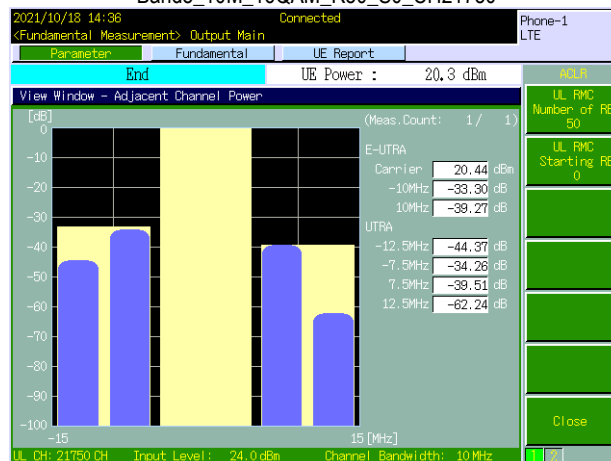
Band8_10M_16QAM_R50_S0_CH21650



Band8_10M_16QAM_R12_S38_CH21750



Band8_10M_16QAM_R50_S0_CH21750



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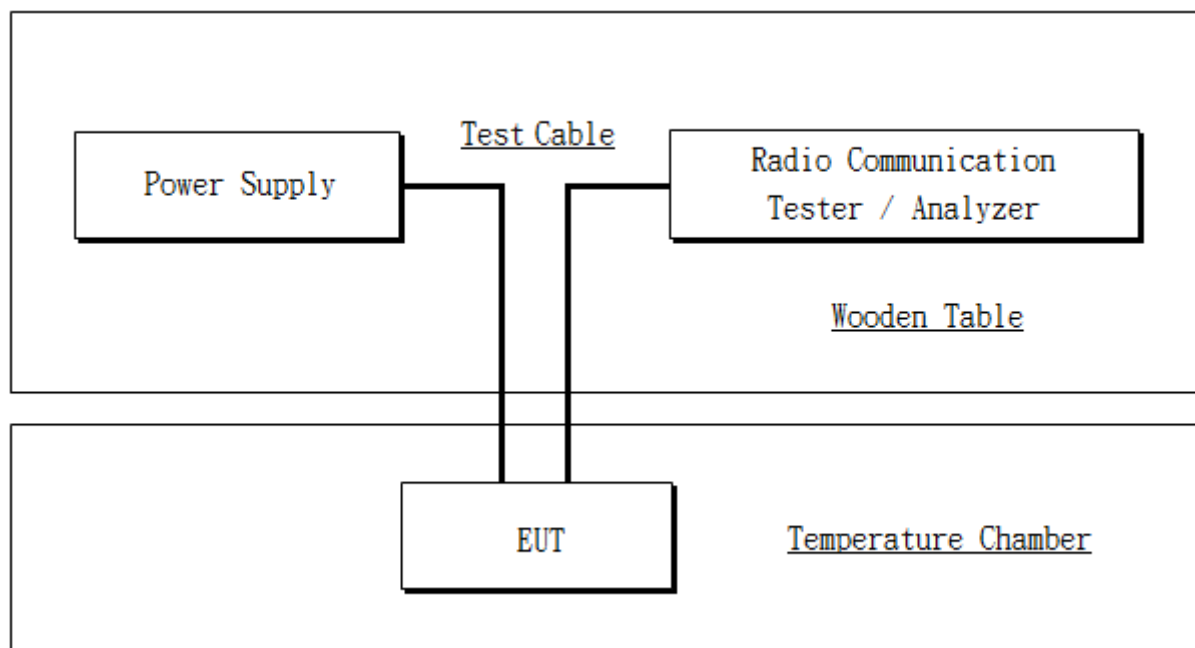
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12 頻率穩定度之量測

12.1 適用標準:

頻率應維持在工作頻帶內	常態環境溫度範圍為+15℃至+35℃，濕度範圍為 25%至 75%
	極端環境溫度範圍為-10℃至+60℃

12.2 測試配置:



12.3 量測儀器:

參考本報告8.3節

12.4 測試方法:

- (1) 各頻段在設定在 QPSK, 5MHz BW, mid channel, full RB 條件下測試，限制值依 3GPP TS36.521 規定應在 0.1ppm 以內，最高/最低操作電壓值無法到達 $\pm 15\%$ 時得以廠商自我宣告之電壓值檢測，測試數據應含 0/2/5/10 分鐘的量測結果。
- (2) 使溫櫃之溫度有足夠時間達到穩定，當溫櫃內維持在一定溫度時，啟動受測物，並於開始時、以及啟動後第 2 分鐘、第 5 分鐘與第 10 分鐘測量受測物之操作頻率，共作四次測量。
- (3) 將未供電之受測物置於環境溫櫃中，供應受測物標稱之交流電源或使用全新或充電完全之電池。若可行，則將天線連接至受測物之天線輸出接頭。
- (4) 關閉受測物且置之於環境溫櫃中，設定至適用規範指定之最高溫度。對正常為持續操作之裝置，當置於溫櫃中時可使受測物運作。

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12.5 量測結果:

LTE TDD Band 1 QPSK 10MHz CH 18300 Full RB

	0 minute		2 minute		5 minute		10 minute	
	1950 MHz		1950 MHz		1950 MHz		1950 MHz	
	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)
LTLV	3.6	0.0018	3.6	0.0018	3.6	0.0018	3.6	0.0018
LTHV	-2.3	-0.0012	-2.3	-0.0012	-2.3	-0.0012	-2.3	-0.0012
NTNV	2.7	0.0014	2.7	0.0014	2.7	0.0014	2.7	0.0014
HTLV	4.6	0.0024	4.6	0.0024	4.6	0.0024	4.6	0.0024
HTHV	3.2	0.0016	3.2	0.0016	3.2	0.0016	3.2	0.0016

LTE FDD Band 3 QPSK 10MHz CH 19575 Full RB

	0 minute		2 minute		5 minute		10 minute	
	1747.5 MHz		1747.5 MHz		1747.5 MHz		1747.5 MHz	
	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)
LTLV	3.6	0.0021	3.6	0.0021	3.6	0.0021	3.6	0.0021
LTHV	-2.3	-0.0013	-2.3	-0.0013	-2.3	-0.0013	-2.3	-0.0013
NTNV	2.7	0.0015	2.7	0.0015	2.7	0.0015	2.7	0.0015
HTLV	4.6	0.0026	4.6	0.0026	4.6	0.0026	4.6	0.0026
HTHV	3.2	0.0018	3.2	0.0018	3.2	0.0018	3.2	0.0018

LTE FDD Band 8 QPSK 10MHz CH 21650 Full RB

	0 minute		2 minute		5 minute		10 minute	
	900 MHz		900 MHz		900 MHz		900 MHz	
	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)	(Hz)	(ppm)
LTLV	3.6	0.0040	3.6	0.0040	3.6	0.0040	3.6	0.0040
LTHV	-2.3	-0.0026	-2.3	-0.0026	-2.3	-0.0026	-2.3	-0.0026
NTNV	2.7	0.0030	2.7	0.0030	2.7	0.0030	2.7	0.0030
HTLV	4.6	0.0051	4.6	0.0051	4.6	0.0051	4.6	0.0051
HTHV	3.2	0.0036	3.2	0.0036	3.2	0.0036	3.2	0.0036

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13 公眾告警廣播簡訊功能之量測

13.1 適用標準:

公眾告警廣播簡訊功能應具有下列通道：

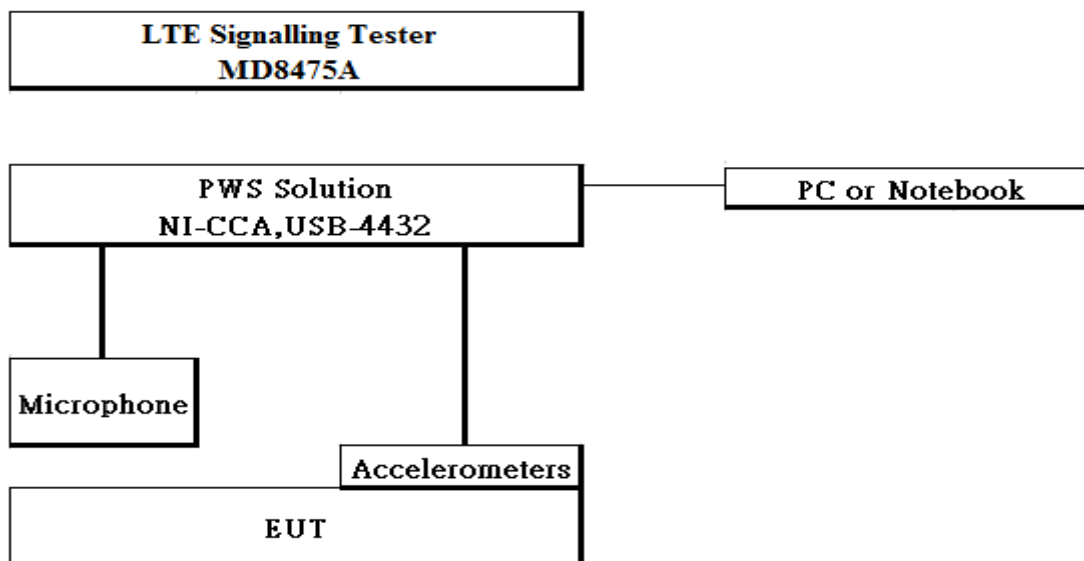
僅適用手持式行動臺設備，接收處理必須優先於設備其他功能	
通道 911	顯示中文公眾告警廣播簡訊，且可以關閉
通道 4370	顯示中文公眾告警廣播簡訊，且不可關閉
通道 4371	顯示中文公眾告警廣播簡訊，且可以關閉
通道 4372	顯示中文公眾告警廣播簡訊，且可以關閉
通道 4373	顯示中文公眾告警廣播簡訊，且可以關閉
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通道 4377	顯示中文公眾告警廣播簡訊，且可以關閉
通道 4378	顯示中文公眾告警廣播簡訊，且可以關閉
通道 4379	顯示中文公眾告警廣播簡訊，且可以關閉
通道 4380	業者測試公眾告警廣播簡訊
通道 919	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4383	顯示英文公眾告警廣播簡訊，且不可關閉
通道 4384	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4385	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4386	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4387	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4388	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4389	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4390	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4391	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4392	顯示英文公眾告警廣播簡訊，且可以關閉
通道 4393	業者英文測試測試公眾告警廣播簡訊

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13.2 測試配置:



13.3 量測儀器: N/A

13.4 測試方法:

- (1) 開啟 PWS 測試軟體 Produgator-resonance，於功能區選擇“專案管理”，選擇擷取器及感測器設定(聲音與震動)。(已預先將相關設定進行存檔，執行測事前可先將檔案載入即可)
- (2) 啟動 Anritsu MD8475A 送出“CMAS”訊息給待測物，待測物應在收到“CMAS”訊息後發生警告。(包含聲音與震動)
- (3) PWS 測試軟體 Produgator-resonance 量測待測物所發出之震動時間長短與警告聲的音頻分析。(包含警告聲之聲音長短與頻率)
- (4) 為確認公眾告警廣播簡訊之接收處理必須優先於設備其他功能，待測物須先建立通話連線或者是播放影片等其他功能，再啟動 Anritsu MD8475A 送出“CMAS”訊息給待測物，此時待測物必須優先發出警告。(包含聲音與震動)
- (5) 4G LTE 行動寬頻手持式行動臺收到由通道 4370/4380/4383/4393 送來 PWS 訊息時，應有的反應如下：
 - 行動寬頻行動臺設定在“一般模式”下，必須發出告警音、顯示測試訊息內容及產生震動。
 - 行動寬頻行動臺應依 J-STD-100 文件第 10.2、10.3 節反應。

13.5 量測結果:

N/A，此裝置不支援語音通話功能，故無需測試。

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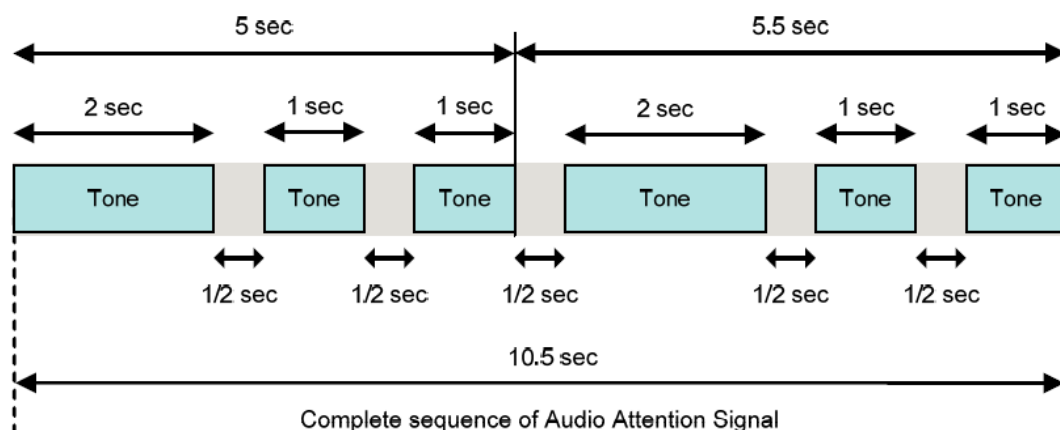
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14 公眾告警聲響信號功能之量測

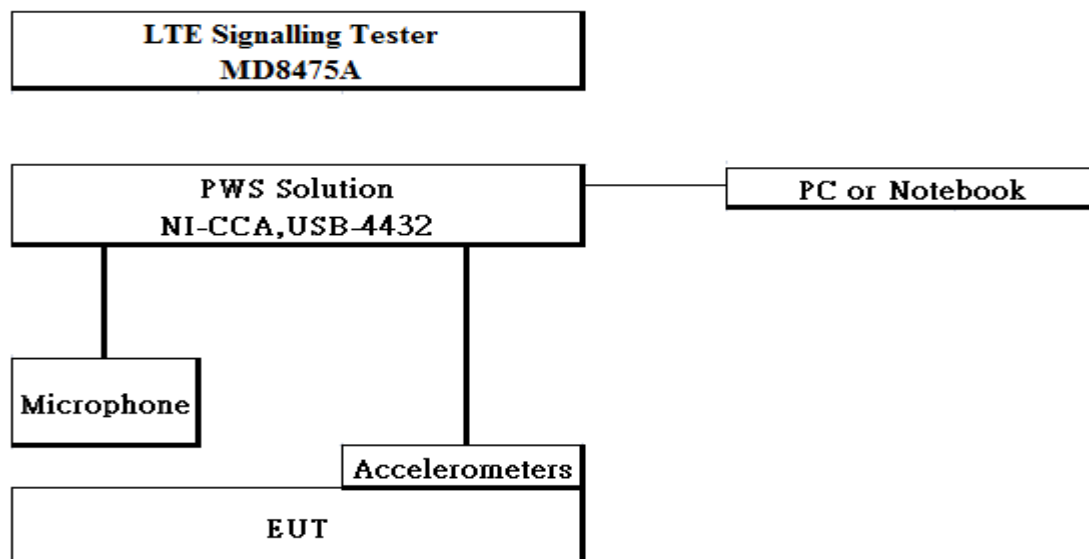
14.1 適用標準:

設備應具有下列告警聲響信號：

僅適用手持式行動臺設備，接收處理必須優先於設備其他功能	
聲響信號型式	2 段聲響，並間隔 0.5 秒。 每段聲響為 2 秒聲響後有 2 次 1 秒聲響，每次聲響間隔 0.5 秒
聲響信號規定	設備具有混音能力，必須同時以基頻 853Hz 和 960Hz 混音產生聲響傳送
	設備只有單音能力，必須以 960Hz 單音產生聲響傳送



14.2 測試配置:



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14.3 量測儀器:

參考本報告13.3節

14.4 測試方法:

參考本報告 13.4 節測試方法。

14.5 量測結果:

N/A，此裝置不支援語音通話功能，故無需測試。

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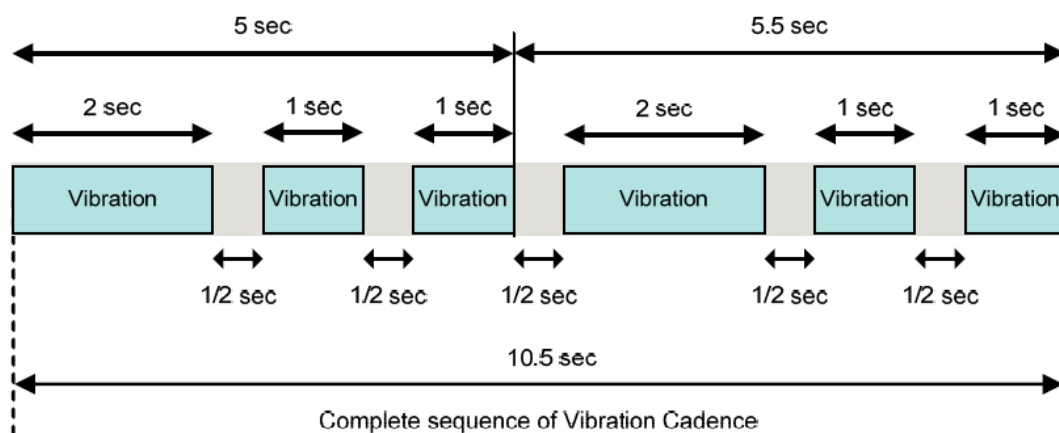
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15 公眾告警振動信號功能之量測

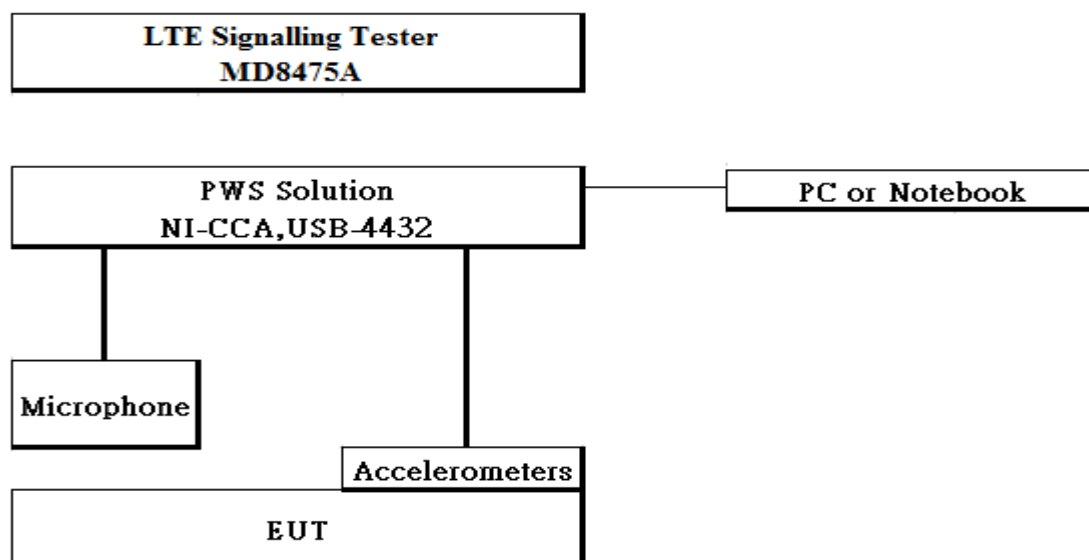
15.1 適用標準:

設備應具有下列告警振動信號:

僅適用手持式行動臺設備，接收處理必須優先於設備其他功能	
振動信號型式	告警振動信號型式為 2 段振動，並間隔 0.5 秒 每段振動為 2 秒振動後有 2 次 1 秒振動，每次振動間隔 0.5 秒
振動信號規定	告警振動信號僅限使用於公眾告警廣播簡訊功能
	告警聲響信號與告警振動信號間得不同步



15.2 測試配置:



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15.3 量測儀器:

參考本報告 13.3 節。

15.4 測試方法:

參考本報告 13.4 節測試方法。

15.5 量測結果:

N/A，此裝置不支援語音通話功能，故無需測試。

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16 IMEI 碼量測

16.1 測試配置:

參考本報告 8.2 節配置方法

16.2 量測儀器設備:

參考本報告 8.3 節

16.3 量測結果:

2021/10/18 21:23		Connected		Phone-2	Phone-1
<Fundamental Measurement> Output Main		Continuous		LTE	LTE
Parameter		Fundamental		UE Report	
Measuring		UE Power :		20.8 dBm	
UE Report					
IMSI(DEC)		001010123456789			
IMEI		863949040098700			
UE Category		4			
PDN Type		IPv4v6			
PCC					
RSRP		()			
RSRQ		()			
SCC-1					
RSRP		()			
RSRQ		()			
Neighbour Cell					
LTE					
Cell ID		()			
RSRP		()			
RSRQ		()			
W-CDMA/TD-SCDMA		RAT	Cell ID	RSCP	()
GSM		Band	ARFCN	NCC BCC	RXLEV
1xEV-DO		Cell ID	PilotStrength	()	

~ End of Report ~

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