

低功率射頻器材試驗報告



申請廠商 台灣愛普生科技股份有限公司
110臺北市信義區松仁路100號15樓
製造廠商 Seiko Epson Corporation
產品名稱 Intelligent Controller
廠牌 EPSON
型號 BO-IC400, BO-IC400N
型號差異 市場區隔
報告號碼 E2/2020/50107-01
試驗件收樣日期 此報告僅增加系列型號，故無試驗件收樣日期。
試驗受理日期 民國111年01月11日
試驗執行日期 此報告僅增加系列型號，故無試驗執行日期。
報告發行日期 民國111年02月21日

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中華民國一百零九年七月頒佈之低功率射頻器材技術規範 LP0002 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。

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2020/50107-01	00	增列型號(BO-IC400N)與相關聲明，並更新相關法規聲明	民國 111 年 01 月 26 日	張嘉芳	-
E2/2020/50107-01	01	修正產品描述呈現方式	民國 111 年 02 月 21 日	張嘉芳	*

Note:

- 1、標註「*」為報告尚未正式取證前，因認證機構意見修改之版本。
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.
- 3、本測試報告完全沿用原測試報告 E2/2020/50107 之測試數據，此次系列申請除了新增系列型號 BO-IC400N，此變更不影響 RF 發射功能，因此評估不需進行輸出功率是否於 ± 2 dB 內之量測。其餘主要設計、技術規格與射頻性能均無變動，詳情請參閱系列差異說明書，特此說明。

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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	SAC 1	SAC 3	Conduction 1
	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	SAC C	SAC D	SAC G
	Conduction C	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)		
TPC and DFS Measurement	+/-	0.88	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

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	Intelligent Controller	
產品型號	BO-IC400, BO-IC400N	
型號差異	市場區隔	
廠牌	EPSON	
Hardware Version	DVT	
Software Version	Android 9	
使用電源	3.85Vdc from Rechargeable Li-ion polymer Battery or 5V from AC/DC Adapter	
	Battery:	Model No.: EAR1B Supplier: ShenZhen KAYO Battery Co., Ltd.

3.2 射頻特性

調變	發射頻帶 (MHz)		輸出功率 (dBm)	頻道數 (Channels)
802.11 a mode	5180 ~5240		15.84	4
	5260 ~5320		15.73	4
	5500 ~5720		15.90	12
	5745 ~5825		15.88	5
802.11n HT20 / ac VHT20 mode	HT20:	5180 ~5240	15.41	4
	HT20:	5260 ~5320	15.37	4
	HT20:	5500 ~5720	15.39	12
	HT20:	5745 ~5825	15.42	5
802.11n HT40 / ac VHT40 mode	HT40:	5190 ~5230	15.47	2
	HT40:	5270 ~5310	15.47	2
	HT40:	5500 ~5710	15.33	6
	HT40:	5745 ~5825	15.23	2
802.11 ac VHT80 mode	VHT80:	5210	15.23	1
	VHT80:	5290	15.35	1
	VHT80:	5530 ~5690	15.79	3
	VHT80:	5775	15.60	1

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3.3 配件資訊

以下配件及電源供應方式經申請者切結，由實驗室提供併同檢驗。

是否附賣		實驗室 提供	申請者 提供	配件	廠牌	型號	備註
Yes	No						
☒	☐	☐	☒	USB Cable	HOTRON	D0017100R2AHR	N/A
☐	☒	☐	☒	Adapter	APD	WB-10E05R	5VDC
☐	☒	☒	☐	Headphone	ASUS	ZenEar	N/A
☐	☒	☒	☐	Micro SD Card	Transcend	8GB	N/A
☐	☒	☒	☐	USB Cable	I Max	USB-C1200	N/A

3.4 成套銷售

此裝置不適用 LP0002 3.9 成套銷售規範。

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4 使用頻段

此裝置符合IEEE Std 802.11a/n/ac 標準:

802.11a/n/ac/ax mode 採用正交分頻多工 OFDM/OFDMA 調變技術之發射頻率全段:

5150-5250MHz共有4個頻道,

5250-5350 MHz共有4個頻道,

5470-5725MHz共有12個頻道,

5745MHz-5825MHz共有5個頻道。

4.1 802.11a/n/ac operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530	114	5570
104	5520	110	5550	122	5610		
108	5540	118	5590	138	5690		
112	5560	126	5630				
116	5580	134	5670				
120	5600	142	5710				
124	5620						
128	5640						
132	5660						
136	5680						
140	5700						
144	5720						

Operated band in 5745 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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5 測試結果

本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻器材技術規範(LP0002, 109.7.1 版本) 如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI C63.10:2013、FCC CFR 47 15.407、FCC 14-30、KDB 789033D02 之檢驗法。

低功率射頻器材技術規範5.7節及FCC Part 15.407

測試項目	適用規範	測試結果
發射功率控制(TPC)及動態頻率選擇(DFS)	低功率射頻器材技術規範 5.7.7	符合

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6 測試設備

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Receiver	KEYSIGHT	N9038A	MY52260216	11/28/2019	11/27/2020
Signal Generator	Keysight	N5182B	MY56200007	08/11/2019	08/10/2020
Splitter	RF-LAMBAD	RFLT4W1G18G	SPCD10-004	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	01/02/2020	01/01/2021
Attenuator	Agilent	8495B	3308A22470	01/02/2020	01/01/2021
Attenuator	HP	8494B	2812A170605	01/02/2020	01/01/2021
AP	ASUS	RT-AX88U	2019/K2ITHP000148 FCC ID : MSQ-RTAXHP00	N/A	N/A

註: 以上部份設備跟量測值沒有影響，且沒有直接關聯，因此不需要進行校正。

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7 功率控制與動態頻率選擇

7.1 適用標準

發射功率控制(TPC)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段的設備，應具備發射功率控制功能。設備必須至少具有6 dB低於平均EIRP 30 dBm的能力。EIRP 低於500 mW之系統不須具備TPC 功能。

動態頻率選擇(DFS):操作於5.25 GHz~5.35 GHz與5.470 GHz~5.725 GHz頻段之設備應具備動態頻率選擇雷達偵測功能並啟動之，以完整偵測使用頻帶內之雷達訊號，避免與雷達系統同頻道操作。相關規定如下：

(1) 最低動態頻率選擇的偵測門檻

(A) 最大EIRP 為200 mW~1 W之設備，其最低動態頻率選擇的偵測門檻值為-64dBm。

(B) 最大EIRP 低於200 mW，且功率頻譜密度小於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-62 dBm。

(C) 最大EIRP 低於200 mW，且功率頻譜密度大於或等於10 dBm/MHz 之設備，其最低動態頻率選擇的偵測門檻值為-64 dBm。

(D) 此偵測門檻值為1 微秒內之平均接收功率，並以0 dBi 天線為參考基準。頻道初始設定得由系統隨機選取或使用者手動選取。

(2) 操作模式：動態頻率選擇之規定適用於以下之操作模式：

(A) 頻道可用性檢查時間之規定，適用於主控運作模式。

(B) 頻道移動時間之規定，適用於主控及受控運作模式。

(3) 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達訊號時，設備才可開始使用該頻道。

(4) 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在10秒內停止，在偵測到雷達訊號後，該期間內的傳輸應維持最多200 毫秒的正常通訊。另外，間歇性的管理與控制訊號可在剩餘的時間中傳送，以便撤離該操作頻道。

(5) 不可佔用期間：某一頻道已被頻道可用性檢查或”服務中”監視顯示含有雷達系統，至少須有30分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

7.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定於待測物正常使用頻將功率設置於最小位準,將其紀錄

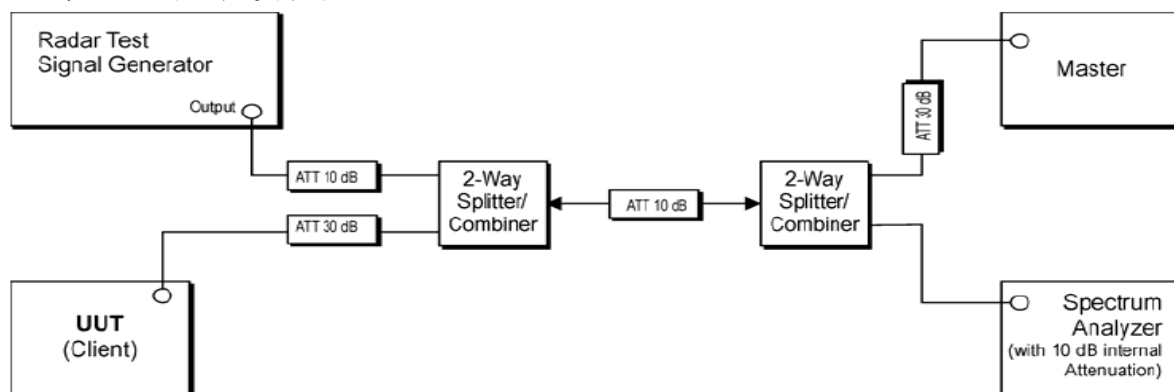
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7.3 測試配置

裝置為 slave 無雷達偵測功能



7.4 動態頻率測試限制

1. 操作模式，動態頻率選擇的規定適用於以下之操作模式：

- (I) 頻道可用性檢查時間的規定，適用於主控運作模式。
- (II) 頻道移動時間的規定，適用於主控及受控運作模式。

2. 頻道可用性檢查時間：設備必須檢查其可在某一頻道上起始傳送之前是否有雷達系統已經操作在該頻道上，以及何時其必須移動到另一新的頻道，在 60 秒內若沒有偵測到功率位準大過上述之干擾門檻值的雷達信號時，設備才可開始使用該頻道。

3. 頻道移動時間：在偵測到雷達的存在後，所有在該操作頻道上的所有傳輸須在 10 秒內停止，在偵測到雷達信號後，該期間內的傳輸應維持最多 200 毫秒的正常通訊。另外，間歇性的管理與控制信號可在剩餘的時間中傳送，以便撤離該操作頻道。

4. 不可佔用期間：某一頻道已被頻道可用性檢查或“服務中”監視顯示含有雷達系統，至少須有 30 分鐘的不可佔用期間。不可佔用期間起始於偵測到雷達系統的當時。

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7.5 功率控制與動態頻率選擇量測結果

7.5.1 TPC 功率控制功能

此裝置功率小於 500mW 不需有功率控制功能。

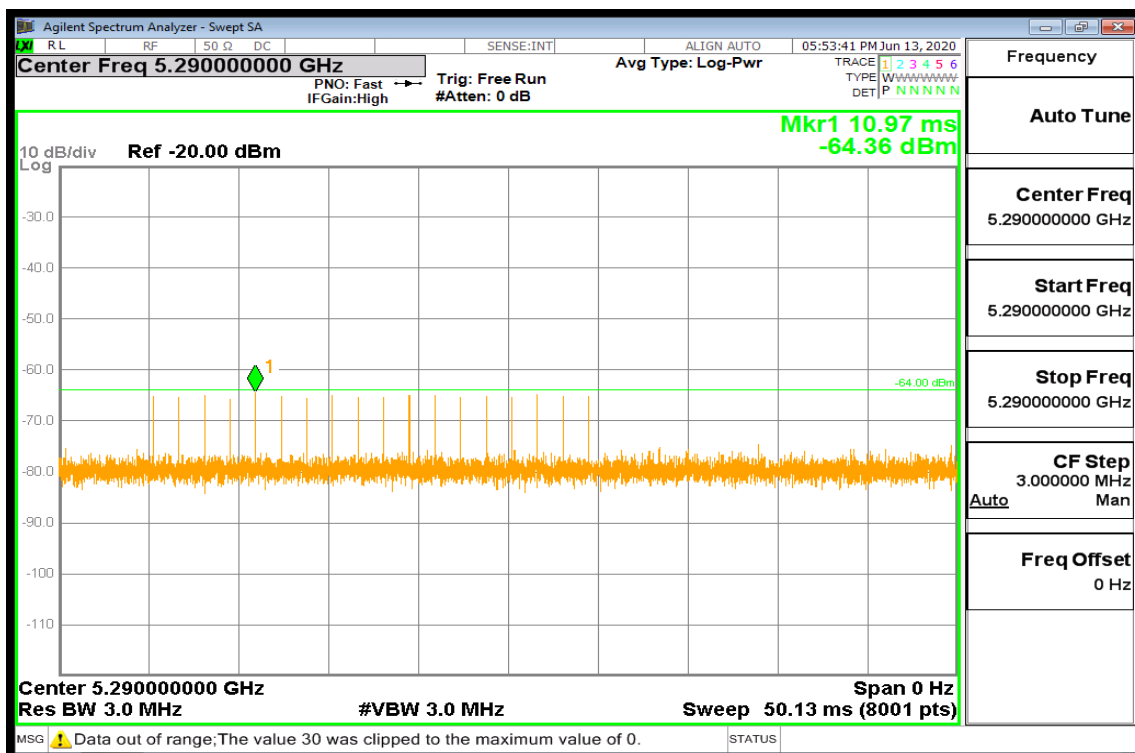
7.5.2 動態頻率選擇測試結果

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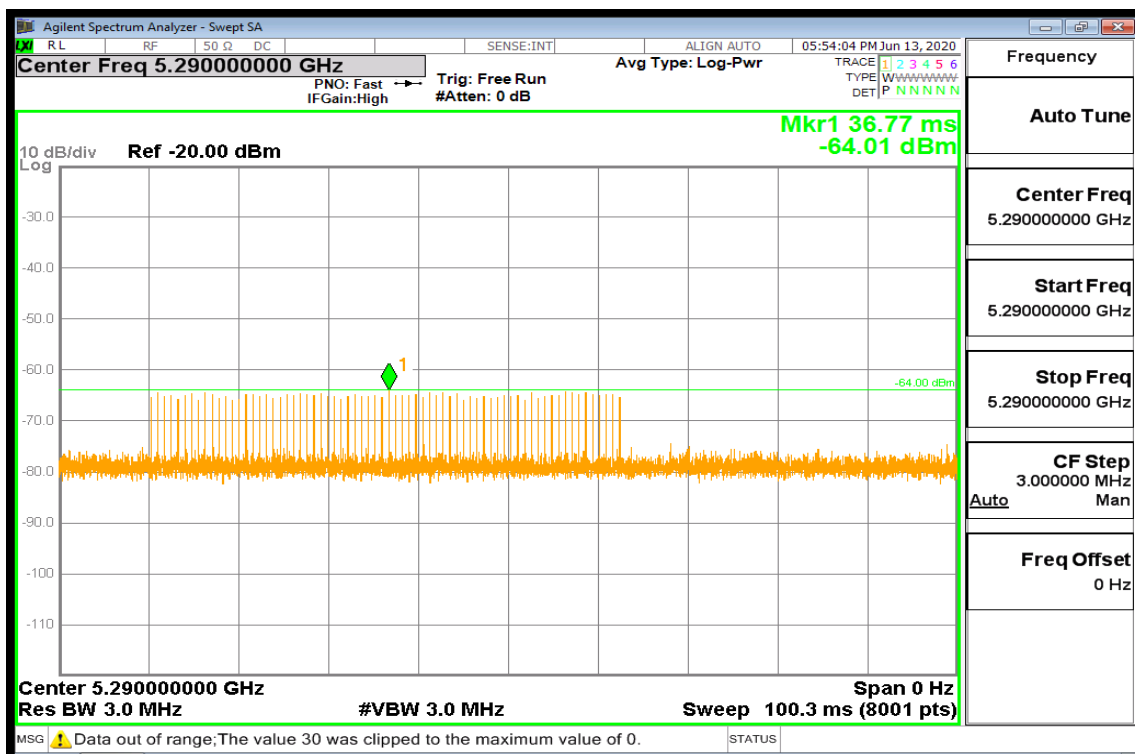
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Radar type 0 雷達波校正強度



Radar type 1 -A 雷達波校正強度

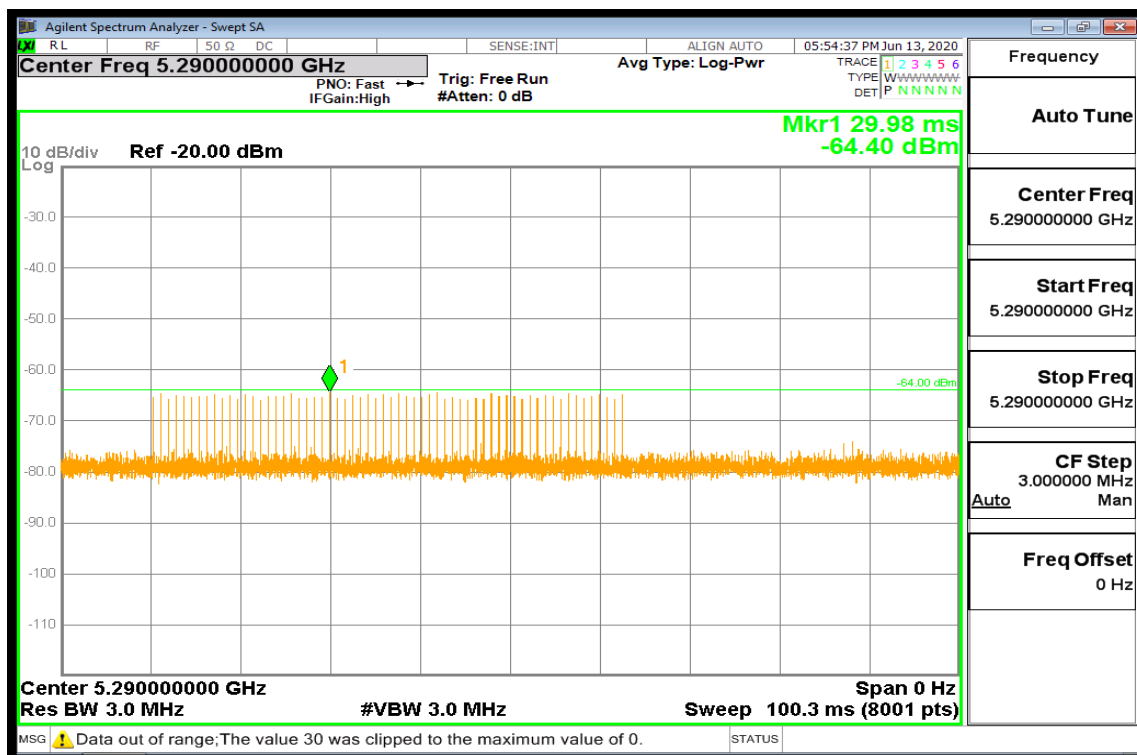


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Radar type 1 -B 雷達波校正強度

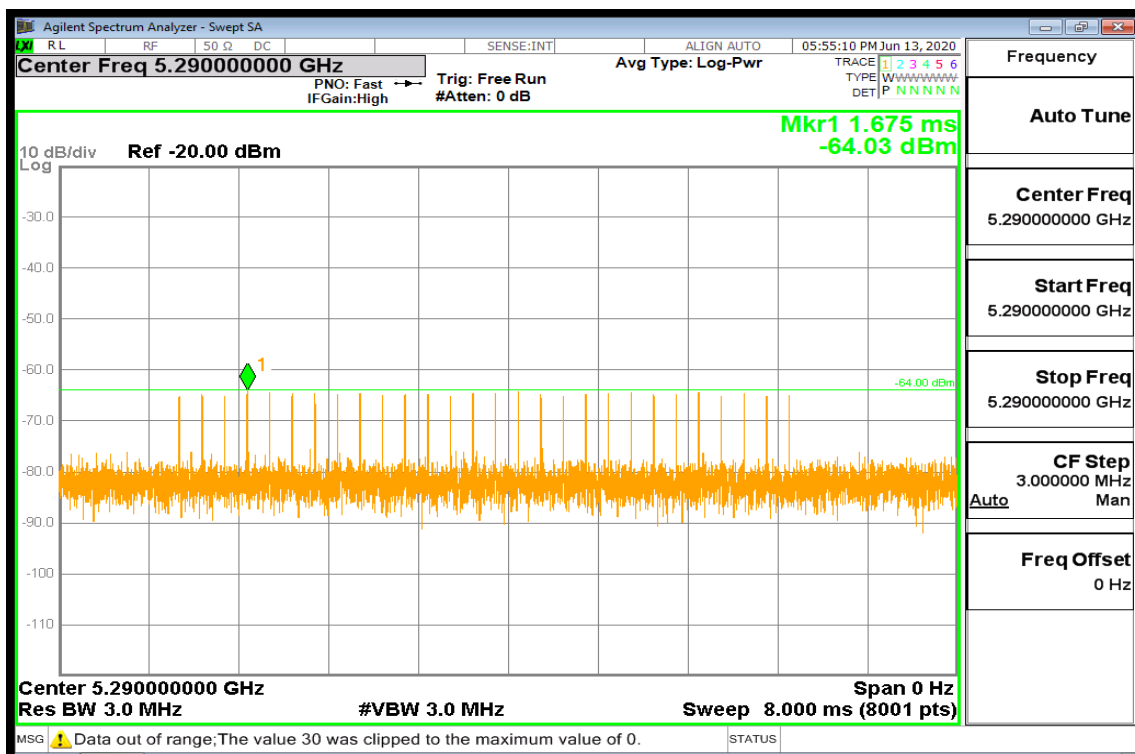


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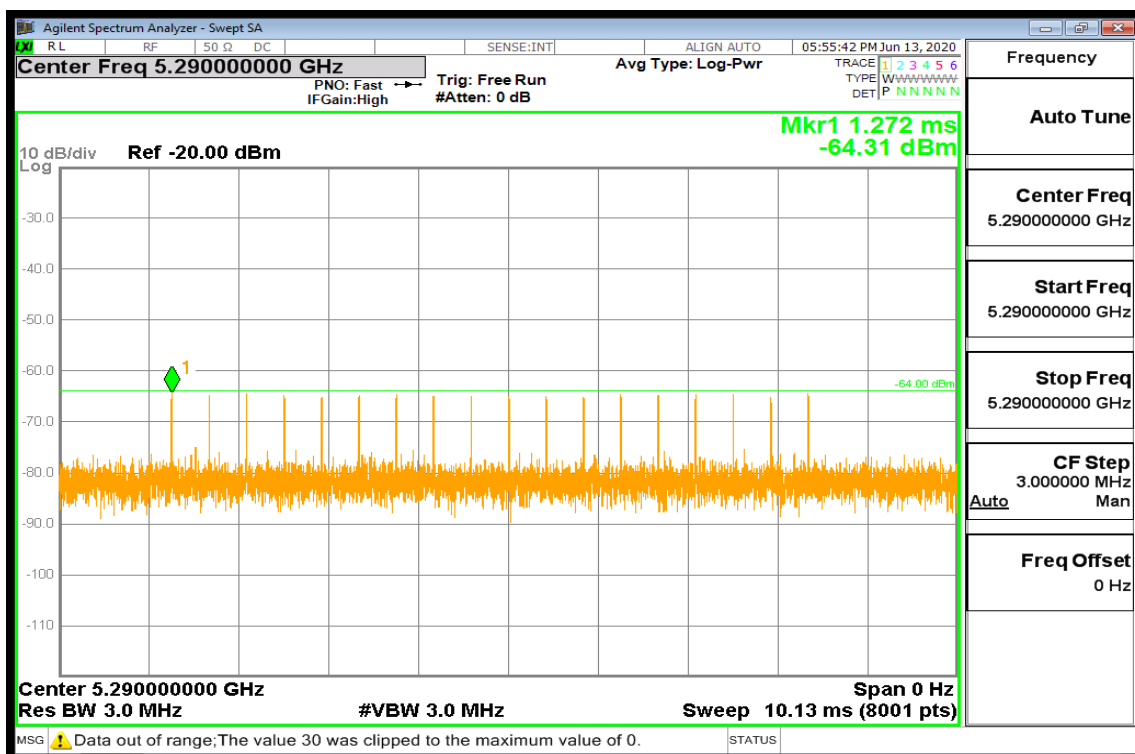
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Radar type 2



Radar type 3

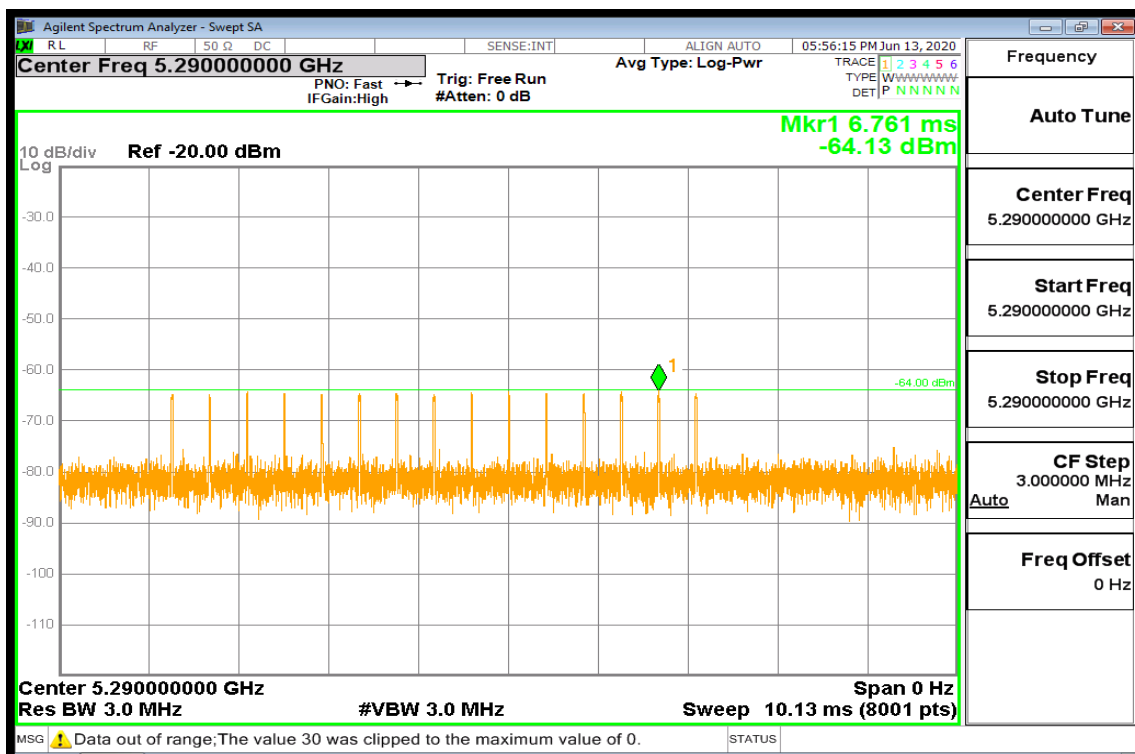


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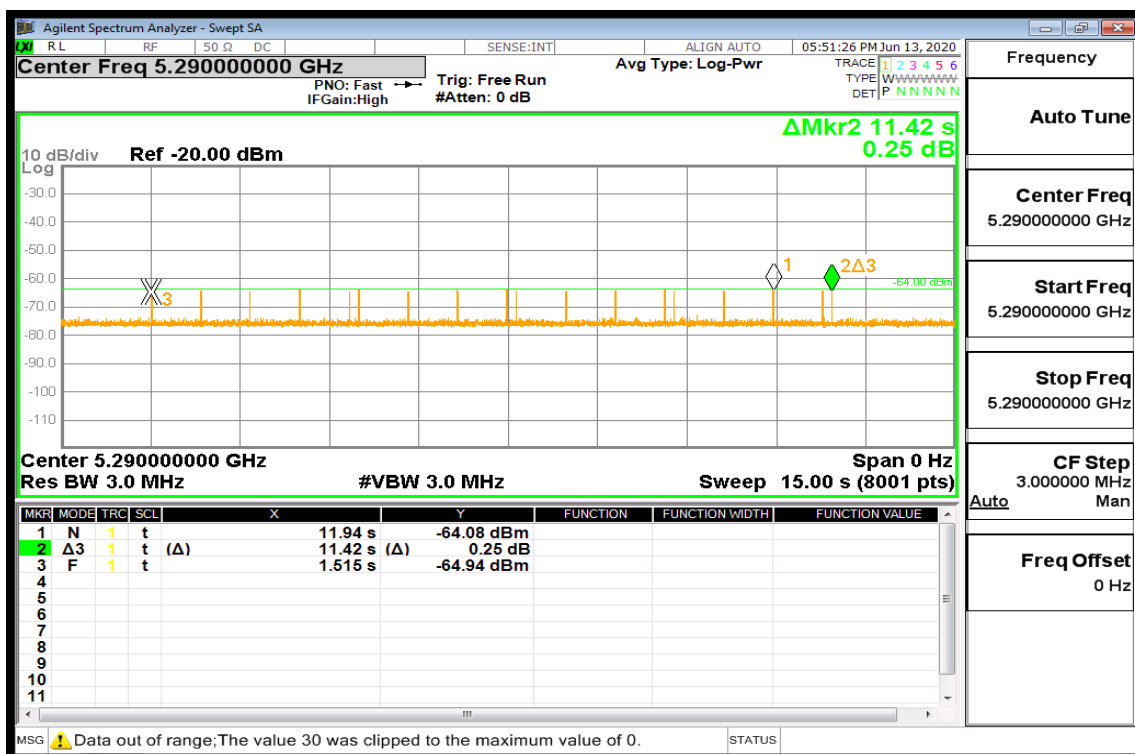
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Radar type 4



Radar type 5

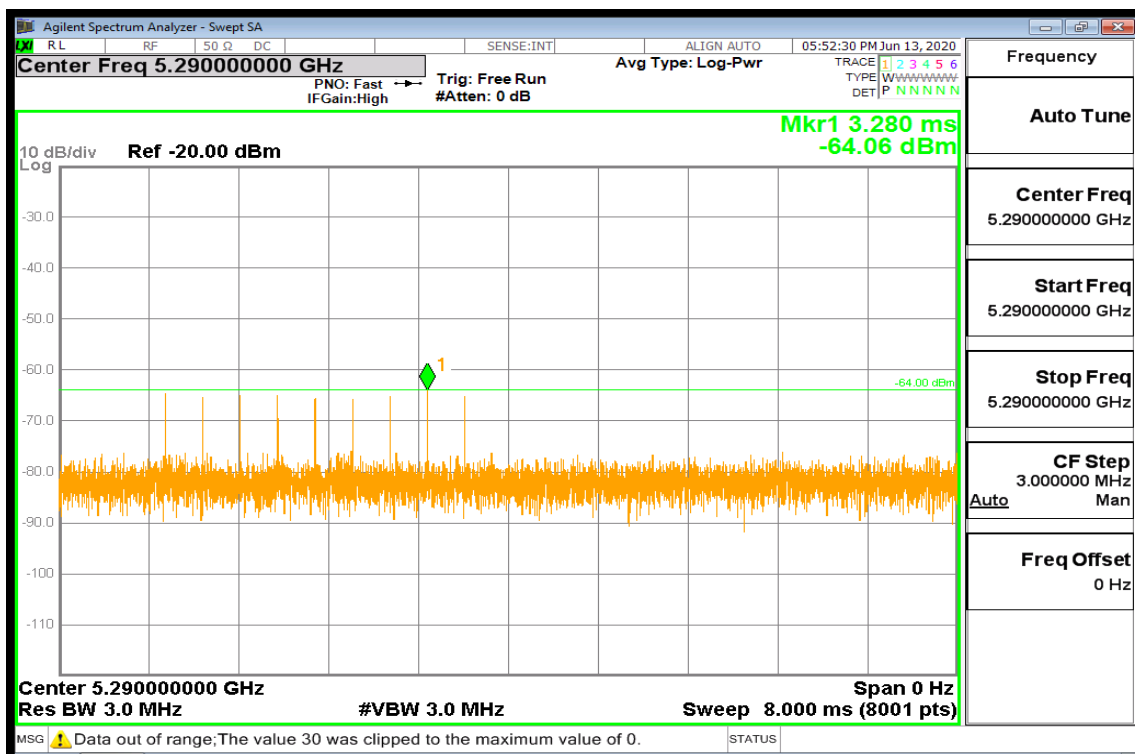


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Radar type 6

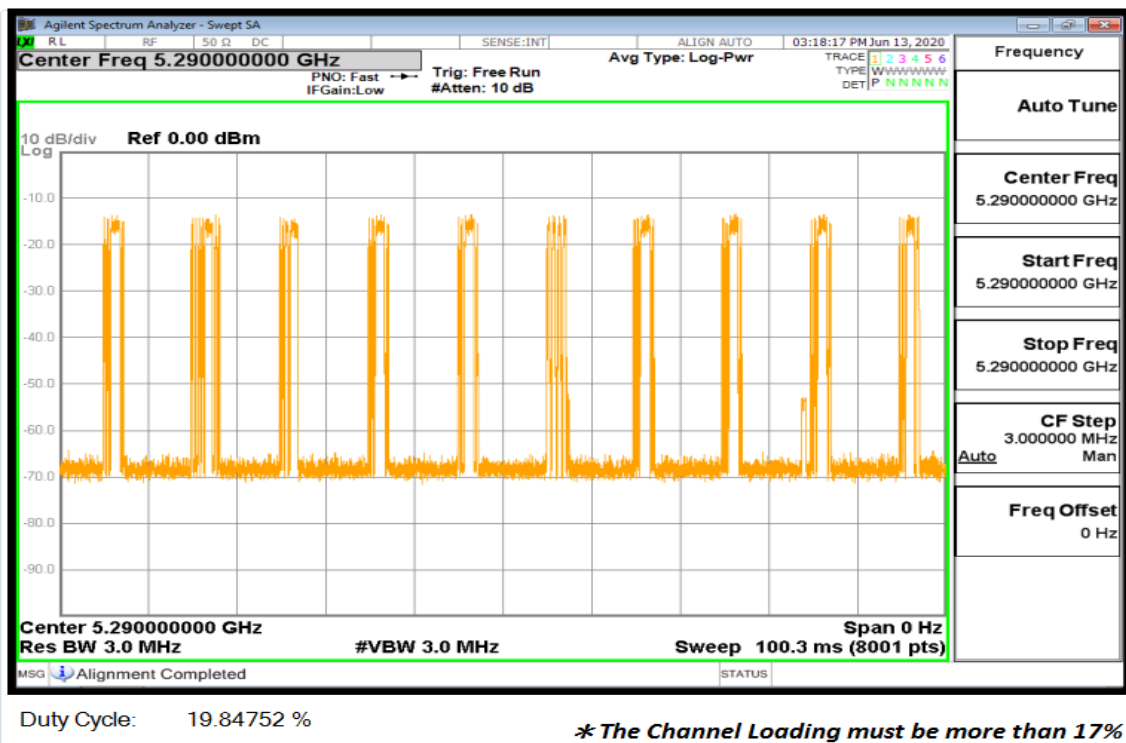


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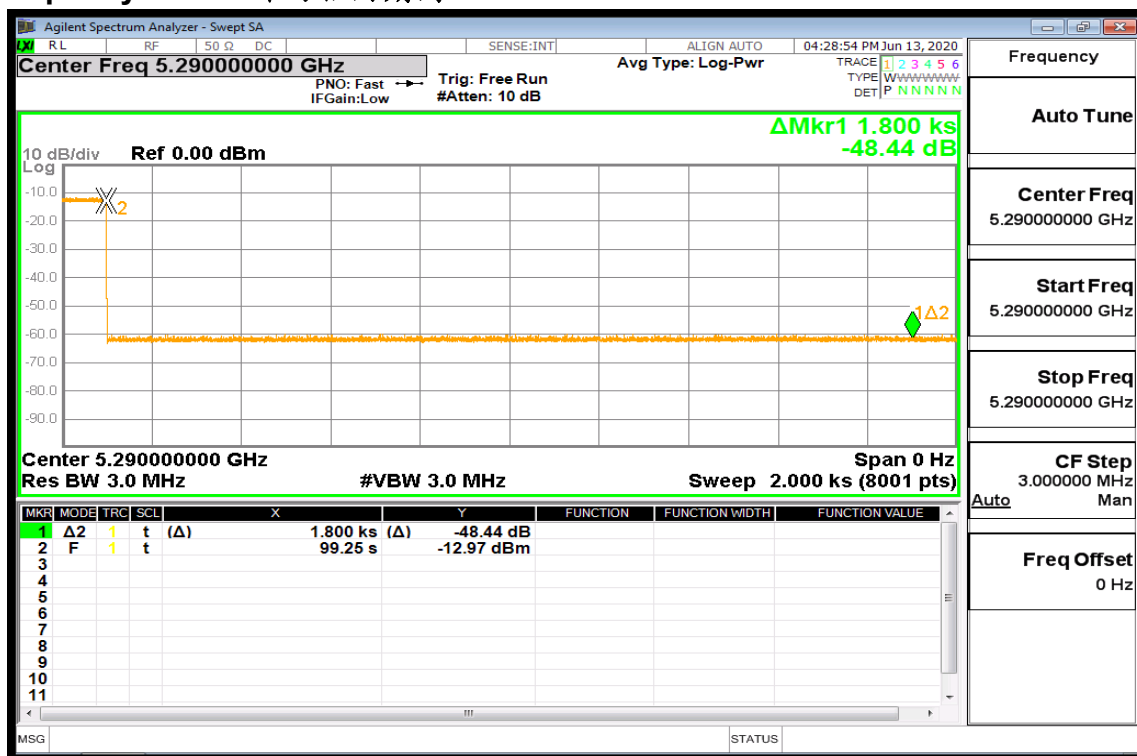
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802.11ac VHT80 Mode Test Data Plot WLAN traffic



Non-occupancy Period 不可佔用期間

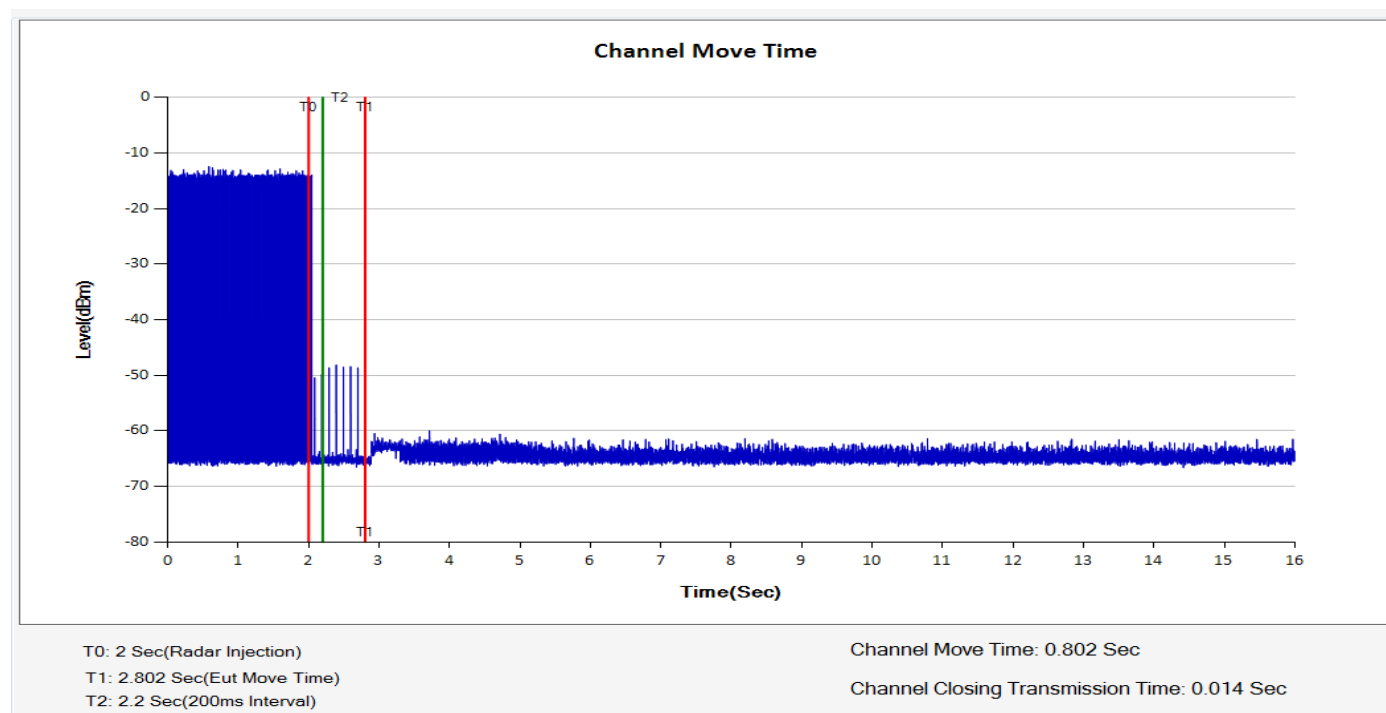
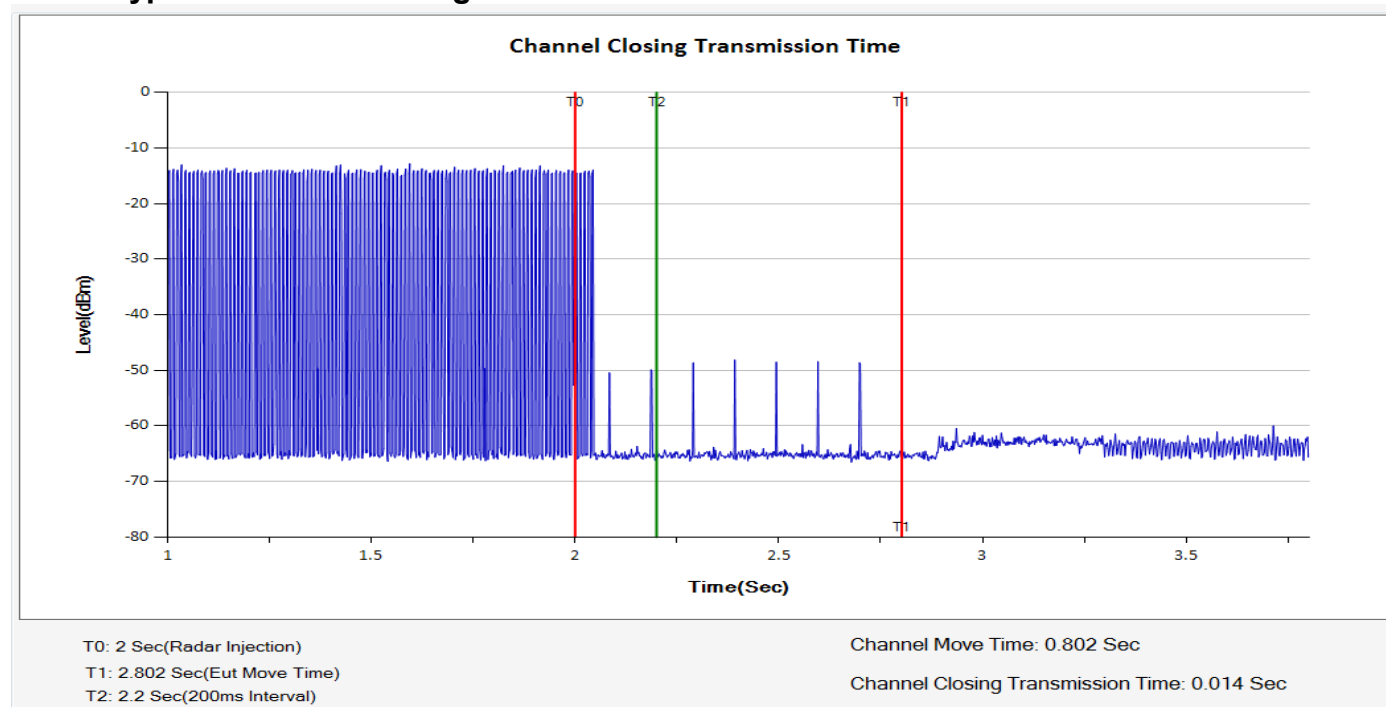


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Radar Type 1 Channel Closing Transmission Time



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7.5.3 功率控制與動態頻率選擇量測結果

測試項目	測試結果	測試日期	結果判定
頻道移動/結束時間	請參閱4.6節	Jul. 13, 2020	合格
不可佔用期間	請參閱4.6節	Jul. 13, 2020	合格
功率控制	EIRP值<500mW		不須具備TPC機能

~ End of Report ~

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