

低功率射頻器材 檢驗報告

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製造廠商	Sony Interactive Entertainment Inc.
受檢設備名稱	Development Kit for PlayStation® 5
廠牌	SONY
型號	DFI-D1000AA
檢驗依據標準	國家通訊傳播委員會低功率射頻器材 技術規範 (LP0002)
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測試報告記錄

申請廠商：台灣索尼互動娛樂股份有限公司
 製造廠商：Sony Interactive Entertainment Inc.
 廠牌：SONY
 品名：Development Kit for PlayStation®5
 型號：DFI-D1000AA
 檢驗依據標準：國家通訊傳播委員會低功率射頻器材技術規範(LP0002)
 規範修訂日期109年07月01日
 發射功率(電場強度)：11.72 dBm (發射功率)
 工作頻率及調變方式：5260 ~ 5320 MHz / DSSS + OFDM + OFDMA
 天線規格：廠牌/型號/天線增益：LUXSHARE-ICT/L34RF052/5.0 dBi
 廠牌/型號/天線增益：LUXSHARE-ICT/L34RF049/2.0 dBi

- 備註：1. 本試驗報告中是描述本實驗室以最佳的知識和能力進行試驗，我們的責任僅限於合理與謹慎的試驗，並非確保賣方之法律和/或合同的義務。
 2. 本符合性試驗係依據適當的標準及試驗樣品進行測試，其中量測不確定度可符合國際標準要求不列入結果考量，本試驗報告的結果僅針對受試驗之樣品負責，無法確保產品生產過程中的品質與性能要求。
 3. 非經本中心同意，檢驗報告不得摘錄複印使用。（全部複製除外）。

項次	測試項目	適用規範	量測設備	測試結果	結果判定
1	電源線傳導干擾之要求	低功率射頻器材技術規範 3.3節	請參閱4.3節	請參閱4.4節	合格
2	天線增益之要求	低功率射頻器材技術規範 5.7.8節	----	請參閱5.2節	----
3	發射頻寬之量測	低功率射頻器材技術規範 5.7.3.2節(1)	請參閱6.3節	請參閱6.4節	----
4	最大傳導輸出功率之要求	低功率射頻器材技術規範 5.7.3.2節(1)	請參閱7.3節	請參閱7.4節	合格
5	功率密度之要求	低功率射頻器材技術規範 5.7.3.2節(2)	請參閱8.3節	請參閱8.4節	合格
6	混附波發射限制之要求	低功率射頻器材技術規範 5.7.4.1節	請參閱10.3節	請參閱10.4節	合格
7	場強輻射之要求	低功率射頻器材技術規範 5.7.4.4 - 5.7.4.6節	請參閱11.3節	請參閱11.5節	合格
8	DFS之要求	低功率射頻器材技術規範 5.7.7.2節	請參閱12.3節	請參閱12.5節	合格
	以下空白				

測量實驗室負責人：鄭景文 109.11.26 直接主管：黃啟瑞 109.11.26

量測員：郭世宇 109.11.26

1 一般資料

1.1 產品描述

- a) 產品型態 : Development Kit for PlayStation® 5
- b) 商 標 : SONY
- c) 產品型號 : DFI-D1000AA
- d) 供應電源 : AC 110V

備註：1. 本產品內含 WLAN、Bluetooth 及 Bluetooth LE 無線技術，WLAN 部份包含 DTS 與 UNII 頻帶。本報告僅記錄 UNII Band 2 (5260 至 5320 MHz) 部份，Bluetooth 部份請見 ETC 報告編號: 20-10-MAS-019-01，Bluetooth LE 部份請見 ETC 報告編號: 20-10-MAS-019-02，DTS 部份請見 ETC 報告編號: 20-10-MAS-019-03，UNII Band 1 (5180 MHz 至 5240 MHz)部份請見 ETC 報告編號: 20-10-MAS-019-04，UNII Band 3 (5500 至 5700 MHz) 部份請見 ETC 報告編號: 20-10-MAS-019-06，UNII Band 4 (5725 至 5850 MHz) 部份請見 ETC 報告編號: 20-10-MAS-019-07。

2. 本器材不具備主控運作模式動態頻率選擇與Ad-hoc功能。

1.2 產品特性

此裝置為 Development Kit for PlayStation® 5，其發射頻率落於 5260 至 5320 MHz 頻段，採用 IEEE 802.11a/n/ac/ax 直接序列展頻調變技術。其應用為區域網路無線傳輸。主波發射功率為 11.72 dBm，即為 14.84 mW，其無線特性列表如下：

RF chain	2T2R	
Operating Frequency	IEEE802.11a/n 20/ac/ax20MHz: 5.26GHz ~5.32GHz, 4ch; IEEE 802.11n 40MHz/ac/ax 40MHz 5.27GHz~5.31GHz, 2ch IEEE 802.11ac/ax 80MHz 5.29GHz,1ch	
Modulation	IEEE 802.11a(OFDQ/DSSS) 48/54 Mbps (64-QAM) 24/36 Mbps (16-QAM) 12/18 Mbps (QPSK) 6/19 Mbps (BPSK)	IEEE 802.11n(OFDQ/DSSS) 64-QAM 16-QAM QPSK BPSK
	IEEE 802.11ac (20MHz,40MHz,80MHz)(OFDM/DSSS) 256-QAM, 64-QAM, 16-QAM, QPSK,BPSK	
	IEEE 802.11ax(20MHz,40MHz,80MHz)(OFDMA/OFDM /DSSS) 1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK,BPSK	

1.3 測試方法之依據

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電機技術規範以及參考 IEEE ANSI、歐盟ETSI EN與美國EIA、FCC 47 CFR PART 2、KDB及ARIB STD-T67 等有關檢驗之規定。

試驗室介紹：財團法人台灣商品檢測驗證中心電磁相容試驗室通過下列評鑑、認可、登錄與相互認可協議：

- ❶ ISO/IEC 17025 : TAF(0371), NVLAP(Lab code: 200133-0), CBTL(TÜ V SÜ D)
- ❷ Recognized : BSMI, NCC, FCC(TW0371, TW1112), ISED(Industry Canada Site # 2949A-2)
- ❸ Filing : VCCI (C-13518, R-13177, G-10098, T-11682)
- ❹ MRA : Australia, New Zealand, Singapore

2 適用規範

2.1 規範要求

(1) 傳導之規定

依據國家通訊傳播委員會低功率射頻器材技術規範之3.3節，電源傳導干擾之限制要求如下：

頻率範圍 MHz	傳導限制值(dB μ V)	
	準峰值(Quasi-peak)	平均值(Average)
0.15 – 0.5	66-56(註)	56-46(註)
0.5 – 5	56	46
5 – 30	60	50

註:隨頻率之對數遞減

(2) 天線增益之要求

國家通訊傳播委員會低功率射頻器材技術規範5.7.8節規定，天線之規格不受3.2 規定之限制。若使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

(3) 頻寬之量測

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.3.2節(1)之規定，5.25 GHz~5.35 GHz 頻帶，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B 是26 dB發射頻寬，單位MHz)之較小者。

(4) 發射輸出功率與功率密度之要求

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.3.2節之規定:

- (1) 5.25 GHz~5.35 GHz頻帶，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B 是26 dB發射頻寬，單位MHz)之較小者。
- (2) 最大功率頻譜密度在任何 1 MHz 頻帶中應小於或等於 11 dBm。
- (3) 使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出力率及最大功率頻譜密度。

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.3.4節之規定:

- (1) 最大傳導輸出功率必須使用依據均方根等效電壓校準之儀器測量於任何連傳輸之時段，測量結果須依儀器限制(如偵測器反應時間、相較於發射頻寬有限之解析頻寬能力，靈敏度等)調整得出正確之峰值測量，以符合本段落所提之發射定義。
- (2) 最大功率頻譜密度檢驗規定:
 - (A) 應將測試儀器直接連接待測物，以傳導方式執行。
 - (B) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及5.47 GHz~5.725 GHz頻段，測試儀器之頻寬應設定為 1 MHz 頻寬或待測物之 26 dB 發射頻寬，兩者取較小者。
 - (C) 5.725 GHz~5.850 GHz頻段，測試儀器之頻寬應設定為 500 kHz 或待測物之 26 dB 發射頻寬，兩者取較小者。
 - (D) 解析頻寬小於 (B)或 (C)時，應以補償方式計算總功率頻譜密度。

(5) 發射限制之要求

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.1節之規定，在 5.15 GHz～5.35 GHz 及 5.470 GHz～5.725 GHz 頻帶操作的發射器：帶外發射之有效等向輻射功率 (EIRP) 不應超過 -27 dBm/MHz。

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.3節之規定，測量不必要發射時，應使用之最低解析頻寬為 1 MHz。必要時，於頻帶邊緣附近可使用小於 1 MHz 之解析頻寬，並以補償方式計算其總值。

(6) 輻射之規定

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.5節之規定，在 1GHz 以下的非必要之發射，應符合第 3.6節之規定，任何使用交流市電為供應電之設備亦須符合第 3.3節之電源線傳導限制值。

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.6節之規定，不必要發射頻率屬 3.5節規定頻段者，應符合 3.6節之規定。

落於3.5節禁用頻段之輻射干擾需符合3.6節之一般限制要求：

頻率(f) MHz	電場強度 (微伏特/公尺， $\mu\text{V/m}$)	測距 (公尺)
$0.009 \leq f \leq 0.490$	$2400/f(\text{kHz})$	300
$0.490 < f \leq 1.705$	$24000/f(\text{kHz})$	30
$1.705 < f < 30$	30	30
$30 \leq f \leq 88$	100	3
$88 < f \leq 216$	150	3
$216 < f \leq 960$	200	3
$960 < f$	500	3

(7) 發射功率控制(TPC)及動態頻率選擇(DFS)之規定

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.6節之規定:

(1) 無線資訊傳輸設備應在”無資料傳輸”或”操作失效”時自動中斷傳輸，此規定並不預先排除傳送控制或信號(signaling)資訊或使用運用數位技術完成碼框或資料突發(burst)區間的重複碼(repetitive codes)，申請人應在申請型式認證文件中提供如何符合本規範之說明。

(2) 發射功率控制(TPC)及動態頻率選擇(DFS):

(2.1) 發射功率控制(TPC)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725GHz 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。

(2.2) 動態頻率選擇(DFS)之雷達偵測功能: 動態頻率選擇(DFS)：操作於5.25 GHz~5.35 GHz 與5.470 GHz~5.725GHz 频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-64 dBm。

(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)不可占用期間：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 分鐘的不可占用期間。不可占用期間起始於偵測到雷達系統的當時。

2.2 限制使用之頻帶

頻率 (MHz)	頻率 (MHz)
0.090~0.110	1660.0~1785.0
0.490~0.510	1805.0~1880.0
2.172~2.198	1885.0~1900.0
3.013~3.033	1905.0~1985.0
4.115~4.198	2010.0~2025.0
5.670~5.690	2110.0~2170.0
6.200~6.300	2200.0~2300.0
8.230~8.400	2310.0~2390.0
12.265~12.600	2483.5~2900.0
13.340~13.430	3260.0~3267.0
14.965~15.020	3332.0~3339.0
16.700~16.755	3345.8~3358.0
19.965~20.020	3500.0~4400.0
25.500~25.700	4500.0~5250.0
37.475~38.275	5350.0~5460.0
73.500~75.400	7250.0~7750.0
108.00~138.00	8025.0~8500.0
149.90~150.05	9000.0~9200.0
156.70~156.90	9300.0~9500.0
162.01~167.17	10600~12700
167.72~173.20	13250~13400
240.00~285.00	14470~14500
322.00~335.40	15350~16200
399.90~410.00	17700~21400
485.00~510.00	22010~23120
608.00~614.00	23600~24000
703.00~748.00	31200~31800
758.00~803.00	36430~36500
825.00~915.00	38600 以上
930.00~1240.0	
1300.0~1427.0	
1435.0~1626.5	

3 受測裝置之系統說明

3.1 受測裝置

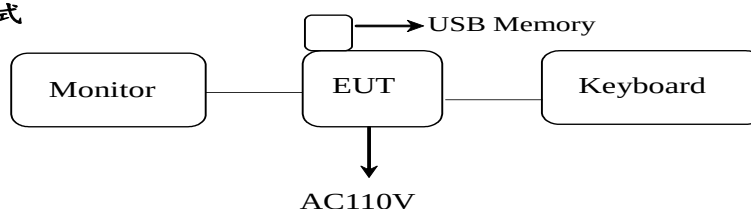
裝置名稱	製造者/代理者	型 號	纜線說明
* Development Kit for PlayStation® 5	Sony Interactive Entertainment Inc.	DFI-D1000AA	非隔離電源線 2.5m* 1 (廠牌:I-Sheng /型號:SP-301)
USB 3.0 HDD	I/O DATA	HDPX-UTC1K	隔離信號線 0.3m * 1 (USB 3.0)
USB Memory	SONY	USM16CA1	----
Keyboard	DELL	KB216P	非隔離信號線 1.8m * 1
USB Memory	SONY	USM32GRB	----
Controller	SONY	CFI-ZCT1G	----
*USB Cable 1 (註 2)	LUXSHARE-ICT	L34U20	隔離信號線 1.5m * 1
Controller	SONY	CFI-ZCT1G	----
*USB Cable 2 (註 2)	JPC	PK3U2EG	隔離信號線 1.5m * 1
Monitor	DELL	SE2216H	非隔離電源線 1.8m * 1
*HDMI Cable	LUXSHARE-ICT	L34HD	隔離信號線 1.5m * 1
Switch	KOKUSAI DENGYO	SPS-1	非隔離信號線 2.0m * 1
USB 3.0 HDD	SONY	HD-EG5	隔離信號線 1.0m * 1 (USB 3.0)
Notebook	HP	Probook650G1	非隔離信號線 10m * 1 (LAN)
Wireless Router	TP-LINK	TL-WDR4300	非隔離電源線 1.8m* 1/Adapter 非隔離信號線 10m * 1 (LAN)
Wireless Router	ASUS	RT-AX88U	非隔離電源線 2.3m* 1/Adapter
Controller	SONY	CFI-ZCT1G	----
Controller	SONY	CFI-ZCT1G	----

註: 1.標記“*”表欲申請之受測物及配件。

2.配件USB Cable 1和USB Cable 2，擇一搭配販售。

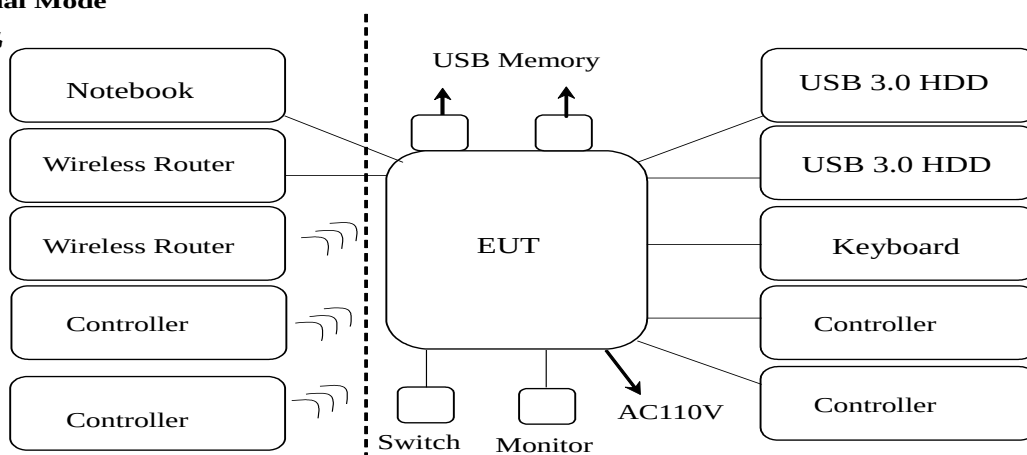
3.測試配置：

工程模式



Normal Mode

遠端



4. 測試模式:

4.1 IEEE 802.11a, 802.11n HT20, IEEE 802.11ac (20MHz) , IEEE 802.11ax (20MHz) mode:

測試頻道如下:

Channel	Frequency (MHz)
Low = 56	5260
Middle = 60	5300
High = 64	5320

IEEE 802.11a mode: 6 Mbps data rate is the worse case for full testing.

IEEE 802.11n HT20 mode: MCS0 data rate is the worse case for full testing.

IEEE 802.11ac/ax (20MHz) mode: MCS0 data rate is the worse case for full testing.

4.2 IEEE 802.11n HT40, IEEE 802.11ac (40MHz) , IEEE 802.11ax (40MHz) mode:

測試頻道如下:

Channel	Frequency (MHz)
54	5270
62	5310

IEEE 802.11n HT40 mode: MCS0 data rate is the worse case for full testing.

IEEE 802.11ac/ax (40MHz) mode: MCS0 data rate is the worse case for full testing.

4.3 IEEE 802.11ac (80MHz) , IEEE 802.11ax (80MHz) mode:

測試頻道如下:

Channel	Frequency (MHz)
58	5290

IEEE 802.11ac/ax (80MHz) mode: MCS0 data rate is the worse case for full testing.

5. 軟體設定：樣品內含測試程式

Modulation	Power Setting
IEEE 802.11a	8
IEEE 802.11n HT20	8
IEEE 802.11n HT40	8
IEEE 802.11ac (20MHz)	8
IEEE 802.11ac (40MHz)	8
IEEE 802.11ac (80MHz)	8
IEEE 802.11ax (20MHz)	8
IEEE 802.11ax (40MHz)	8
IEEE 802.11ax (80MHz)	8

3.2 測試模式說明

3.2.1 調變方式及模式

Test Mode	Modulation	Note
A	IEEE 802.11a	-
B	IEEE 802.11n HT20	-
C	IEEE 802.11n HT40	-
D	IEEE 802.11ac (20MHz)	-
E	IEEE 802.11ac (40MHz)	-
F	IEEE 802.11ac (80MHz)	-
G	IEEE 802.11ax (20MHz)	-
H	IEEE 802.11ax (40MHz)	-
I	IEEE 802.11ax (80MHz)	-

Normal Mode:

Test Mode	Note
J	HDMI+USB+BT+LAN
K	HDMI+USB+BT+WiFi

Mode	IEEE 802.11a/n20/ac/ax (20MHz)	IEEE 802.11n40/ac/ax (40MHz)	IEEE 802.11ac/ax (80MHz)
Test Channel	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Channel Low (L)	5260	5270	5290
Channel Mid (M)	5300	-	-
Channel High (H)	5320	5310	-

3.2.2 測試項目及模式

Item	測試項目	測試模式	測試頻率(MHz)
1	電源線傳導干擾之量測	I、J、K (註1)	M (註2)
2	發射頻寬之量測	A、G、H、I (註3)	L，M，H
3	最大傳導輸出功率之量測	A、B、C、D、E、F、G、H、I、J、K(註4)	L，M，H
4	功率密度之量測	A、G、H、I (註3、4)	L，M，H
5	混附波發射限制之量測	A、G、H、I (註3)	L，M，H
6	場強輻射之量測(主諧波)	A、G、H、I (註3)	L，M，H
6.1	場強輻射之量測(1GHz以下)	I、J、K (註1)	M (註2)
6.2	場強輻射之量測(1GHz以上)	A、G、H、I (註3)	L，M，H
7	DFS之量測	I (註4)	5260-5320 MHz

- 註: 1. 以上調變方式預掃時無差異，擇一作最終測試並記錄之。
2. 高，中，低頻道預掃時無差異，擇中間頻道作最終測試並記錄之。
3. 802.11n/ac/ax以802.11ax為Worse case，作最終測試並記錄之。
4. 本產品內含雙天線，802.11n/ac/ax模式下有MIMO之功能，故對兩隻天線分別進行測試再加總並記錄之。802.11a無MIMO之功能，以最大傳導輸出功率較大者做為Worse Case，進行其他項目之量測。
5. 進行 DFS 測試時，產品操作於 Normal mode，並對所有的調變及頻道進行測試，確認所有調變及頻道均合格後，擇一做最終測試並記錄之。
6. 量測場強輻射時，應對其兩個正交軸(X、Y)的方位評估測試，並分別測試以找出最大輻射電場強度軸向，以最差軸模式測試，並記錄其值與軸向放置。
7. 依 NCC 74 次一致性會議：審驗時不具一般正常使用模式者，得不包括一般正常使用模式。

3.2.3 測試場地

項次	測 試 場 地
1	RE02 — EMC B1 — N2 第一大樓地下二樓 3m 半電波暗室(N2)
2	CE04 — 10M 2F 第三大樓二樓傳導測試室(10m 大樓)
3	RF — Cond01 第一大樓地下一樓直量測試區
4	RF — Cond02 第一大樓地下二樓直量測試區

IEEE 802.11a

Humidity: 54 %

RF Conducted
Sweep Time: 100ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

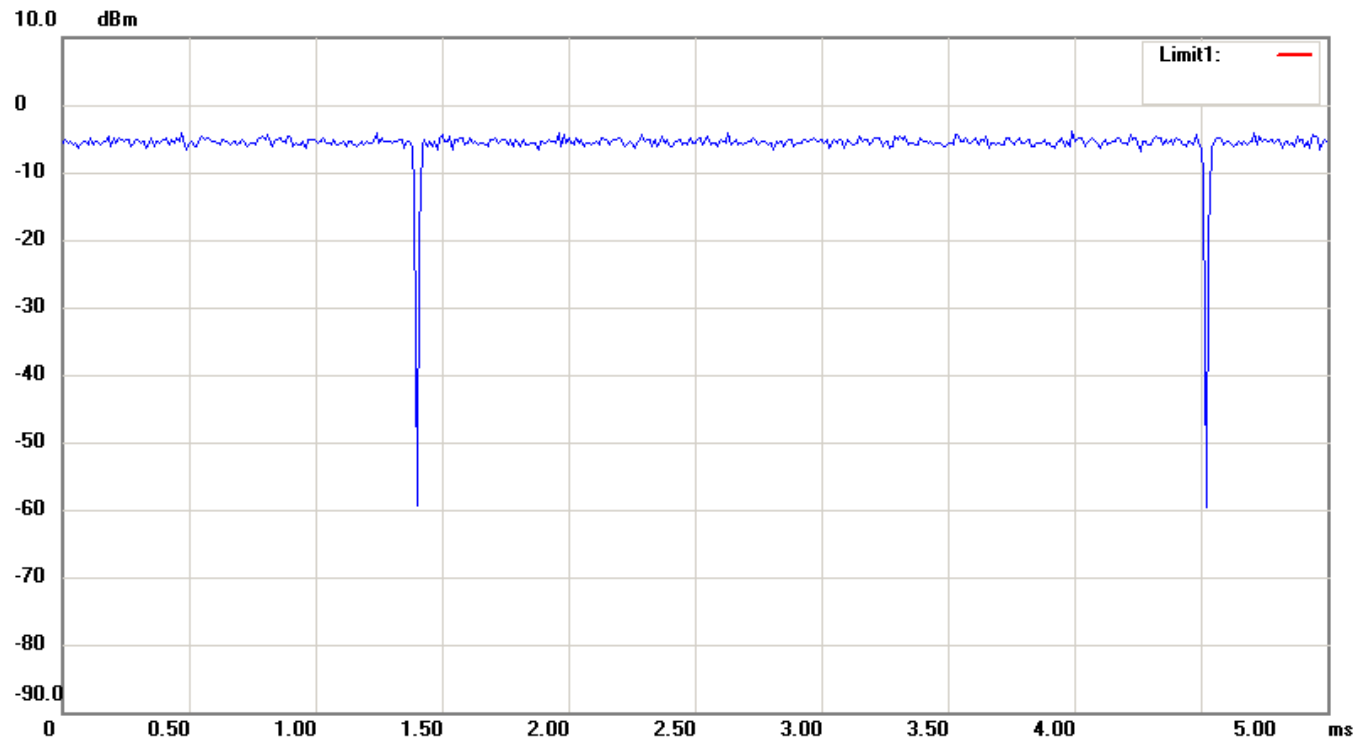
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Site: RF-Cond01

#22

Date: 2020/10/22

Temperature: 24 °C

Humidity: 54 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a Duty-2 (Duty > 98%)

RF Conducted
Sweep Time: 5ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

IEEE 802.11ax (20MHz)

File: 20-10-MAS-019_5-2ax20_ANT1

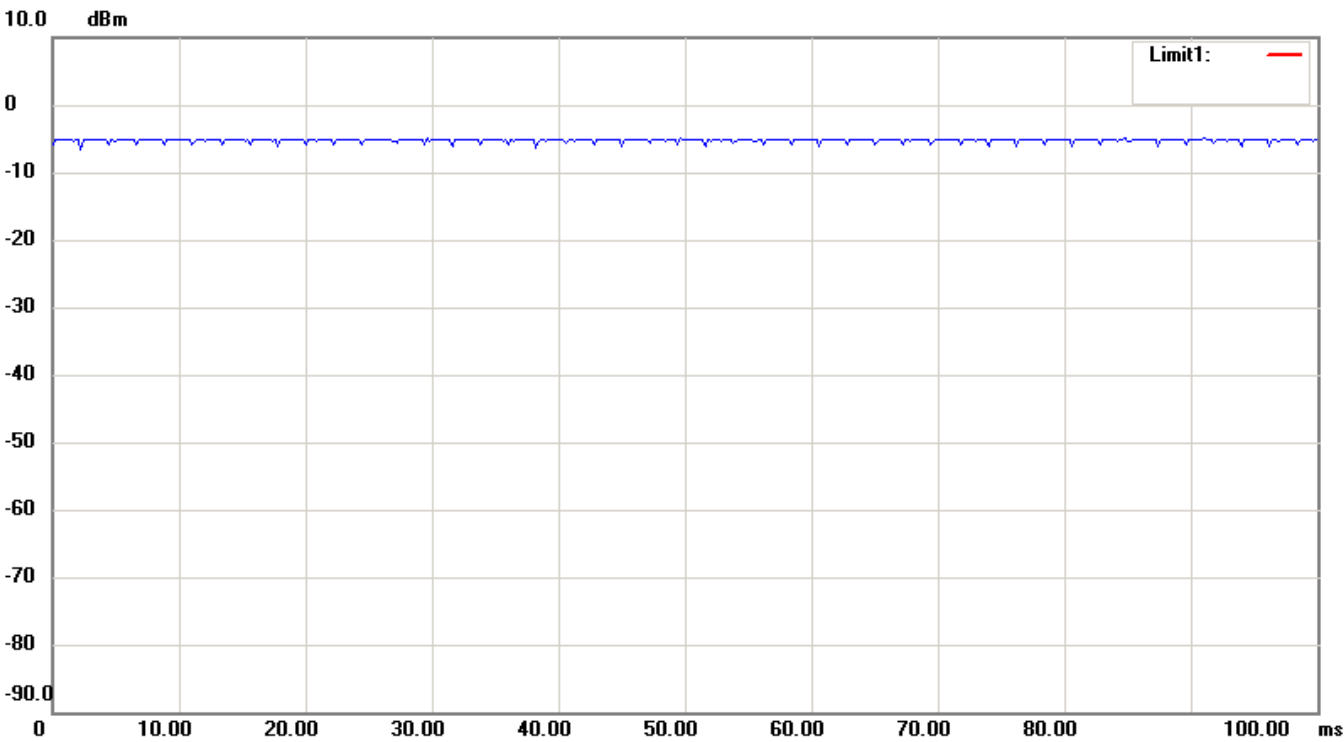
#21

Date: 2020/10/22

Temperature: 24 °C

Site: RF-Cond01

Humidity: 54 %



Condition:	UNII-Band1-2-Bandedge	RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 15dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ax20 Duty-1		

File: 20-10-MAS-019_5-2ax20_ANT1

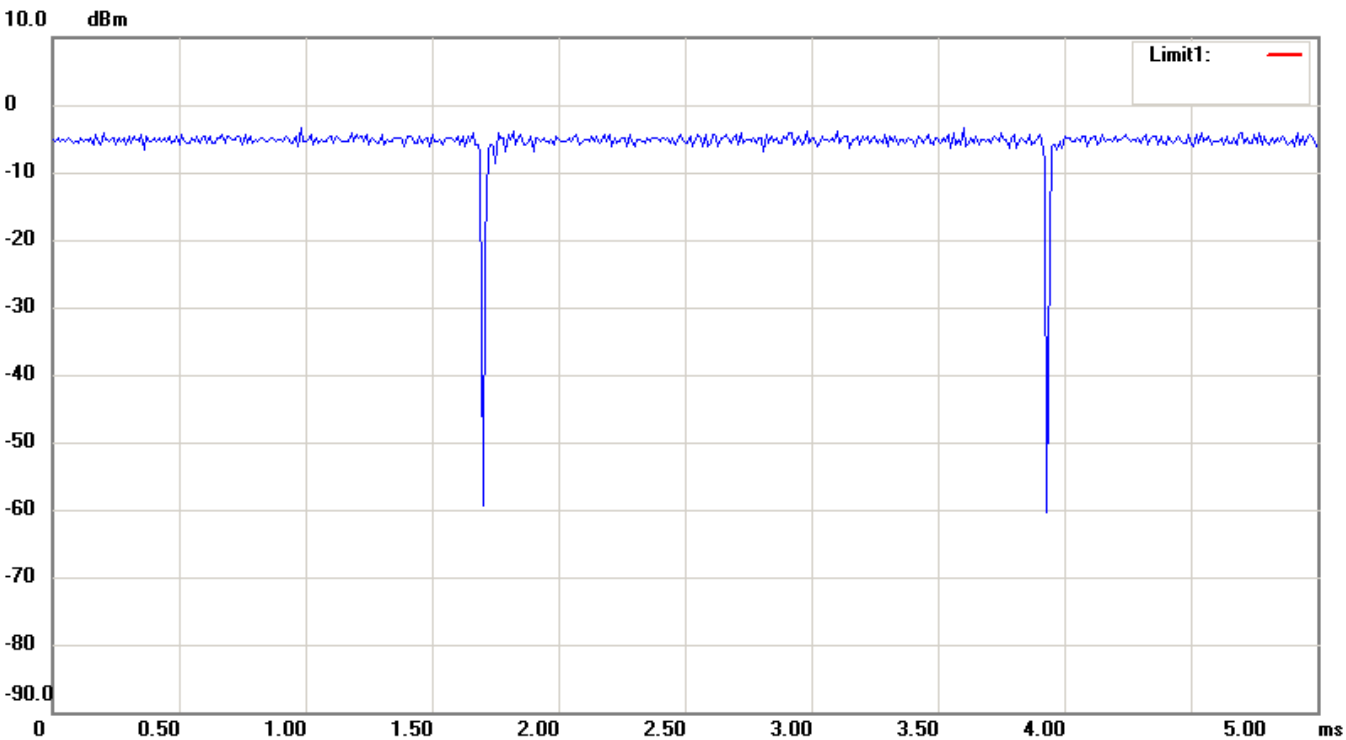
#22

Date: 2020/10/22

Temperature: 24 °C

Site: RF-Cond01

Humidity: 54 %



Condition:	UNII-Band1-2-Bandedge	RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 5ms	Att.: 15dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ax20 Duty-2 (Duty > 98%)		

IEEE 802.11ax (40MHz)

File: 20-10-MAS-019_5-2ax40_ANT1

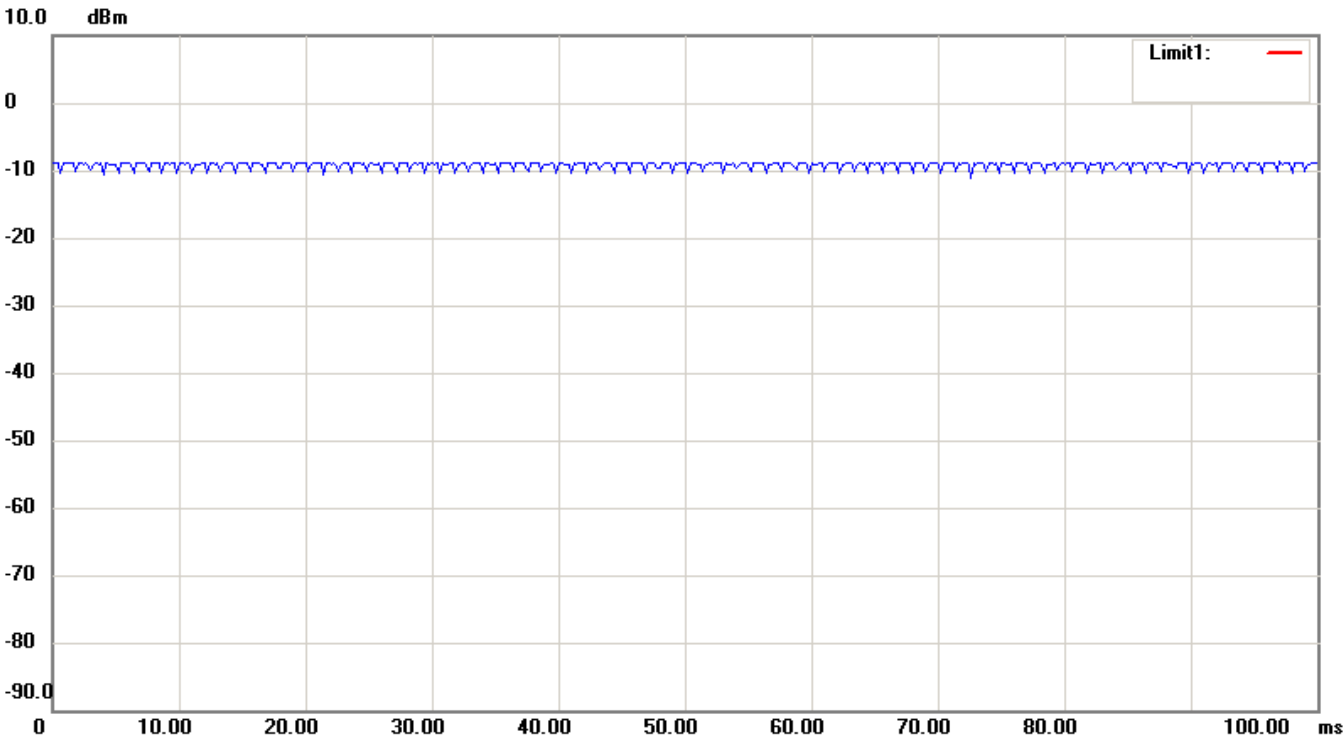
#15

Date: 2020/10/22

Temperature: 24 °C

Site: RF-Cond01

Humidity: 54 %



Condition:	UNII-Band1-2-Bandedge	RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 15dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ax40 Duty-1		

File: 20-10-MAS-019_5-2ax40_ANT1

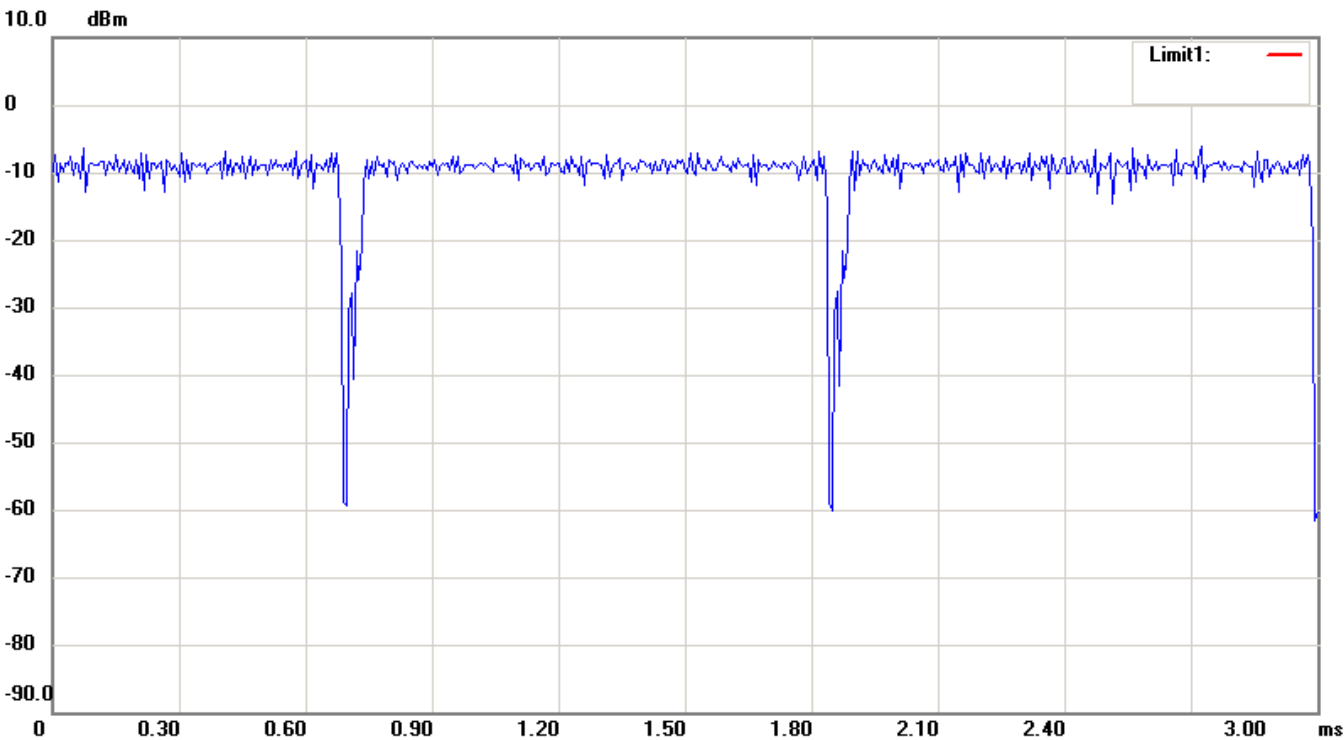
#16

Date: 2020/10/22

Temperature: 24 °C

Site: RF-Cond01

Humidity: 54 %



Condition:	UNII-Band1-2-Bandedge	RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 3ms	Att.: 15dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ax40 Duty-2 (Duty = 95.3%)		

IEEE 802.11ax (80MHz)

File: 20-10-MAS-019_5-2ax80_ANT1

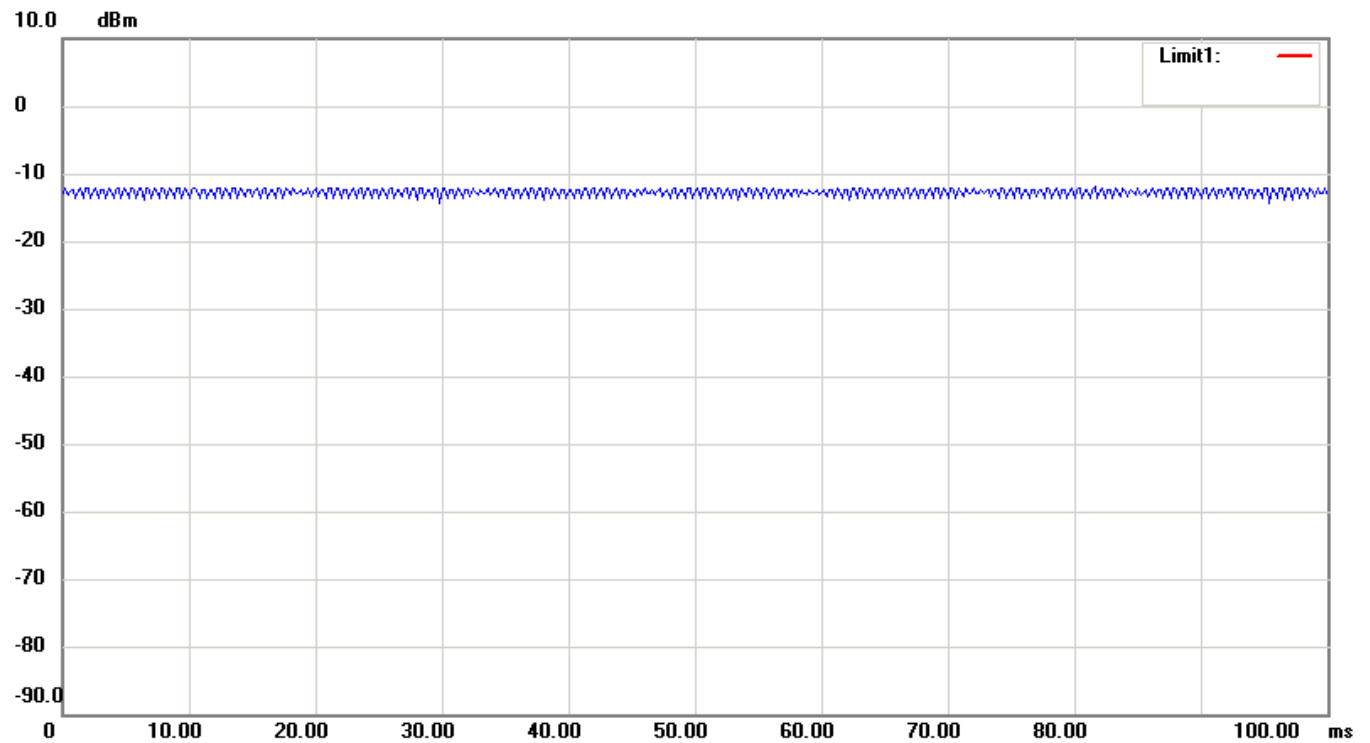
#9

Date: 2020/10/22

Temperature: 24 °C

Site: RF-Cond01

Humidity: 54 %



Condition: UNII-Band1-2-Bandedge

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 100ms Att.: 15dB

Model: DFI-D1000AA

RBW: 1000 KHz VBW: 3000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11ax80 Duty-1

File: 20-10-MAS-019_5-2ax80_ANT1

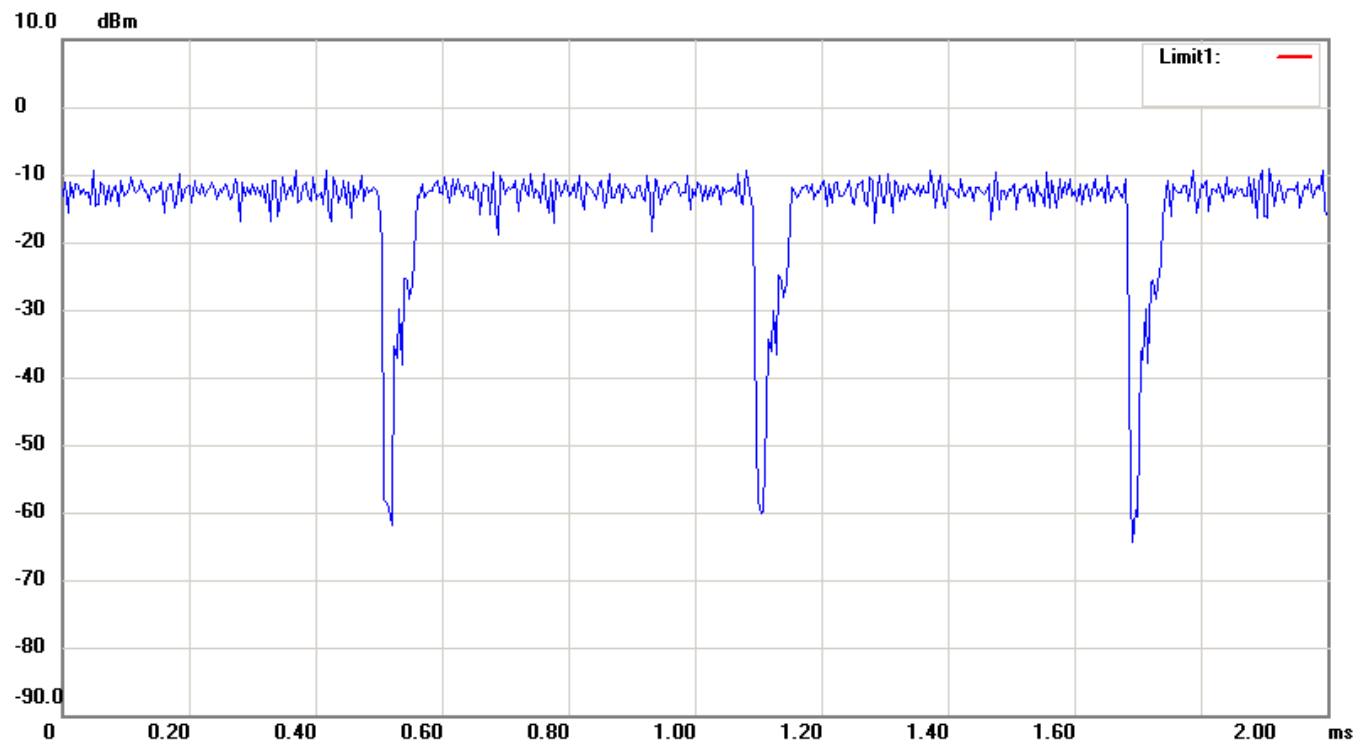
#10

Date: 2020/10/22

Temperature: 24 °C

Site: RF-Cond01

Humidity: 54 %



Condition: UNII-Band1-2-Bandedge

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 2ms Att.: 15dB

Model: DFI-D1000AA

RBW: 1000 KHz VBW: 3000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11ax80 Duty-2 (Duty = 89.8%)

4 電源線傳導干擾之量測

4.1 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範3.3節之要求。

4.2 測試方法

將待測物置於0.8米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線傳導干擾強度。

4.3 量測電源線傳導干擾之儀器

儀器名稱	廠 牌	型 號
EMI Test Receiver	R&S	ESCI
V-LISN	R&S	ENV216

測試軟體: EZ-EMC (Ver. ETC-03A1)

4.4 傳導干擾之量測結果

測試工程師: 羅世勇

4.4.1 測試狀態: IEEE 802.11ax (80MHz)

File: 20-10-MAS-019

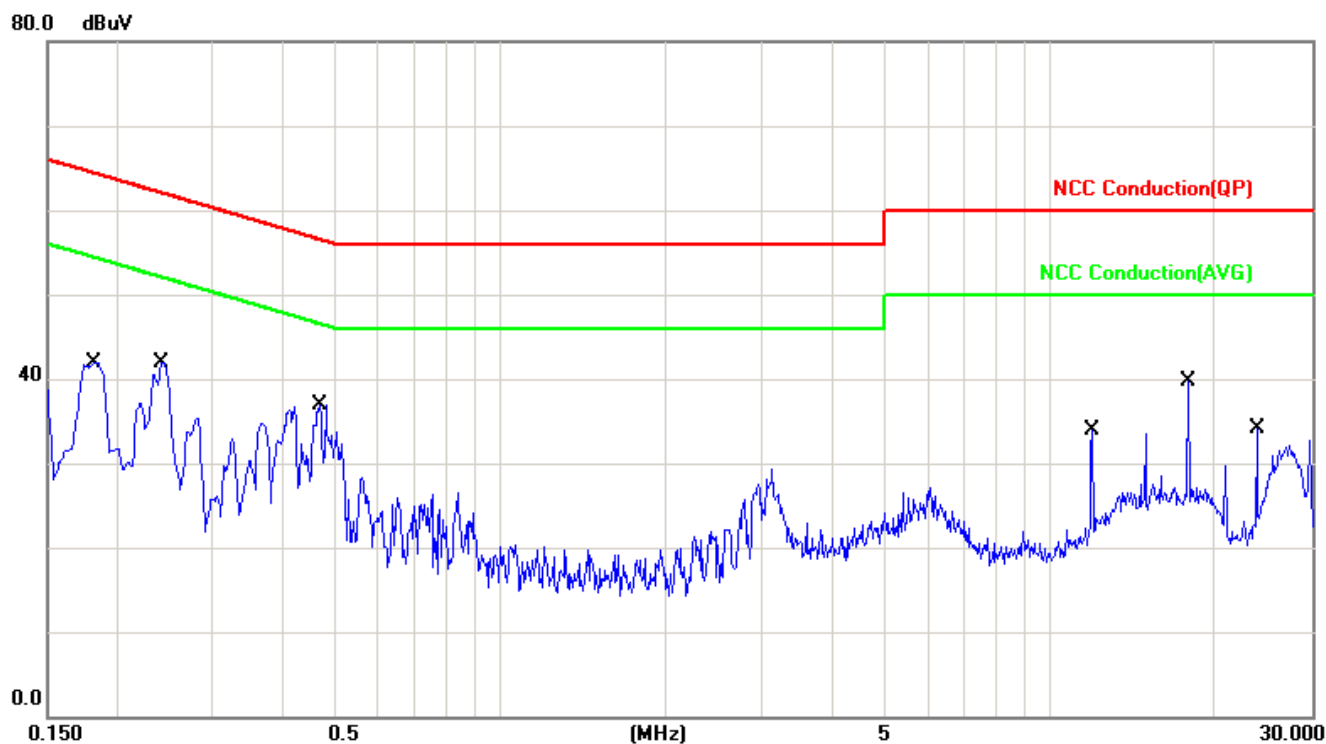
#17

Date: 2020/11/14

Temperature: 22 °C

Time: 上午 11:05:39

Humidity: 60 %



Site: CE04-10M 2F
 Condition: NCC Conduction(QP)
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Band2
 Note:

Phase: L1
 Power: AC 110V/60Hz
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.182	32.35	QP	9.65	42.00	64.39	-22.39
2	0.242	32.25	QP	9.65	41.90	62.03	-20.13
*3	0.470	27.15	QP	9.66	36.81	56.51	-19.70
4	11.934	24.09	QP	9.85	33.94	60.00	-26.06
5	17.902	29.80	QP	9.91	39.71	60.00	-20.29
6	23.862	24.18	QP	9.93	34.11	60.00	-25.89

- 註： 1. “----”表示量測準峰值的結果符合平均值的限制值，則視為同時符合準峰值與平均值的限制值，不需再對其平均值進行量測。
 2. “#”表示干擾值太小，直接量取其峰值。
 3. 標記“***”表示為本地震盪頻率及其諧波。
 4. 量測不準確度: $\pm 2.5\text{dB}$ ($150\text{kHz} \leq f \leq 30\text{MHz}$)。

File: 20-10-MAS-019

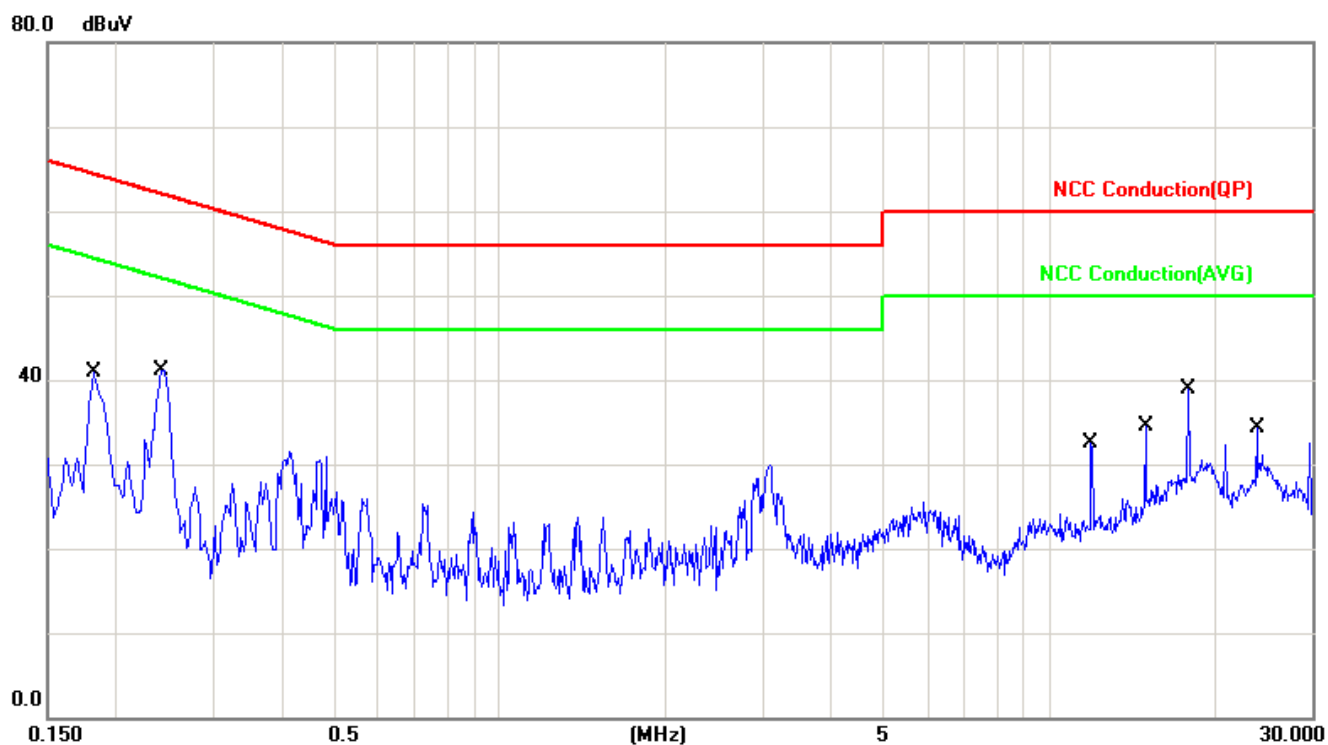
#18

Date: 2020/11/14

Temperature: 22 °C

Time: 上午 11:06:30

Humidity: 60 %



Site: CE04-10M 2F
 Condition: NCC Conduction(QP)
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Band2
 Note:

Phase: N
 Power: AC 110V/60Hz
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.182	31.34	QP	9.59	40.93	64.39	-23.46
*2	0.242	31.61	QP	9.59	41.20	62.03	-20.83
3	11.930	22.63	QP	9.84	32.47	60.00	-27.53
4	14.914	24.54	QP	9.90	34.44	60.00	-25.56
5	17.898	28.88	QP	9.96	38.84	60.00	-21.16
6	23.862	24.19	QP	10.02	34.21	60.00	-25.79

- 註： 1. “----”表示量測準峰值的結果符合平均值的限制值，則視為同時符合準峰值與平均值的限制值，不需再對其平均值進行量測。
 2. “#”表示干擾值太小，直接量取其峰值。
 3. 標記“***”表示為本地震盪頻率及其諧波。
 4. 量測不準確度: $\pm 2.5\text{dB}$ ($150\text{kHz} \leq f \leq 30\text{MHz}$)。

4.4.2 測試狀態: Mode J

File: 20-10-MAS-019

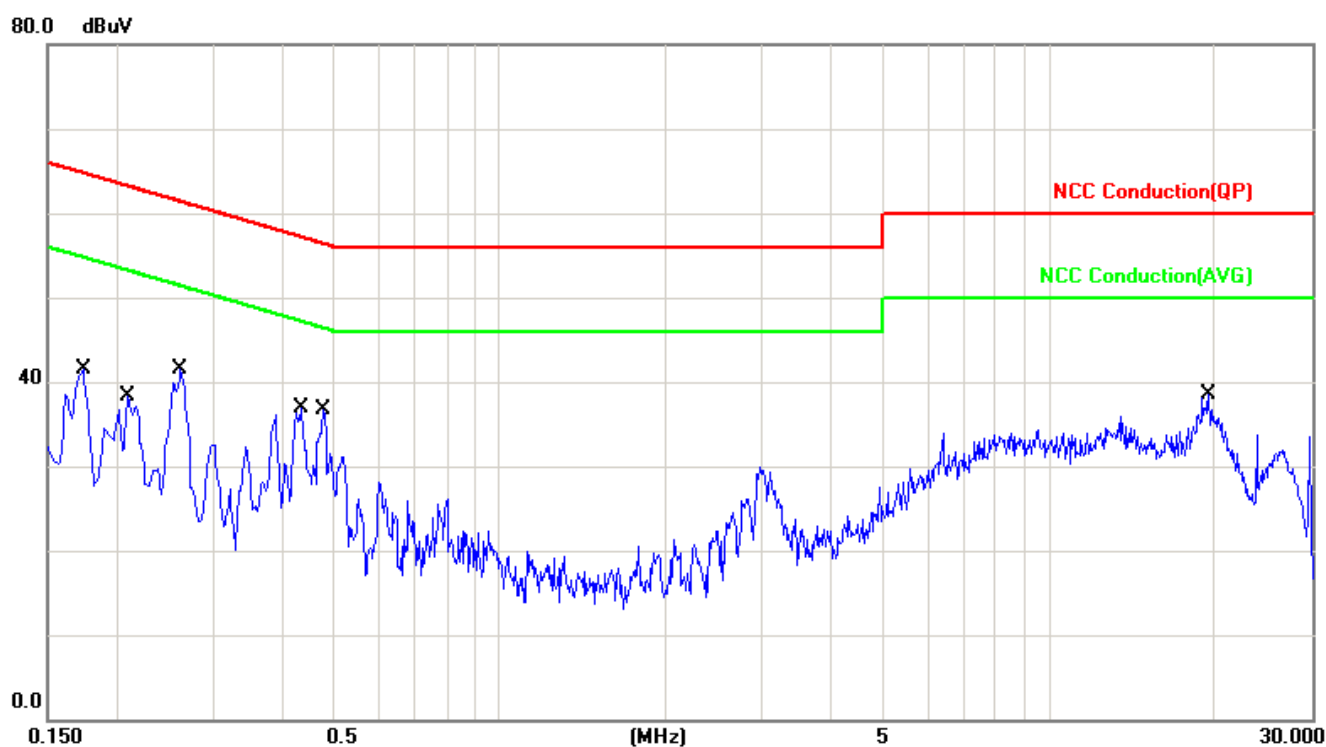
#25

Date: 2020/11/14

Temperature: 22 °C

Time: 上午 11:40:30

Humidity: 60 %



Site: CE04-10M 2F
 Condition: NCC Conduction(QP)
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal1
 Note: HDMI+USB+BT+LAN

Phase: L1
 Power: AC 110V/60Hz
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.174	31.74	QP	9.66	41.40	64.77	-23.37
2	0.210	28.58	QP	9.65	38.23	63.21	-24.98
3	0.262	31.86	QP	9.65	41.51	61.37	-19.86
4	0.434	27.26	QP	9.66	36.92	57.18	-20.26
*5	0.478	27.13	QP	9.66	36.79	56.37	-19.58
6	19.482	28.55	QP	9.93	38.48	60.00	-21.52

- 註： 1. “----”表示量測準峰值的結果符合平均值的限制值，則視為同時符合準峰值與平均值的限制值，不需再對其平均值進行量測。
 2. “#”表示干擾值太小，直接量取其峰值。
 3. 標記“***”表示為本地震盪頻率及其諧波。
 4. 量測不準確度: $\pm 2.5\text{dB}$ ($150\text{kHz} \leq f \leq 30\text{MHz}$)。

File: 20-10-MAS-019

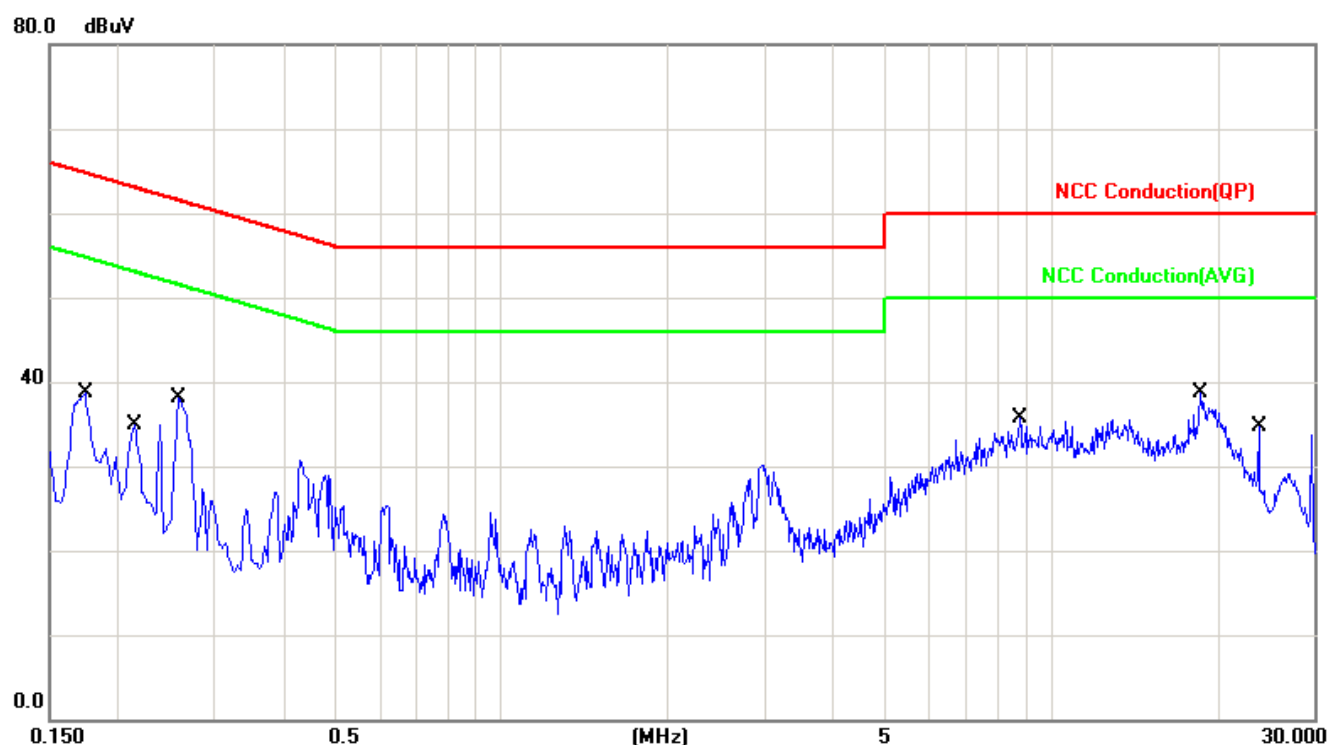
#26

Date: 2020/11/14

Temperature: 22 °C

Time: 上午 11:42:52

Humidity: 60 %



Site: CE04-10M 2F
 Condition: NCC Conduction(QP)
 EUT: Development Kit for PlayStation5
 Model: DF1-D1000AA
 Test Mode: Normal1
 Note: HDMI+USB+BT+LAN

Phase: N
 Power: AC 110V/60Hz
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.174	29.07	QP	9.60	38.67	64.77	-26.10
2	0.214	25.28	QP	9.59	34.87	63.05	-28.18
3	0.258	28.42	QP	9.59	38.01	61.50	-23.49
4	8.754	25.97	QP	9.77	35.74	60.00	-24.26
*5	18.706	28.66	QP	9.97	38.63	60.00	-21.37
6	23.834	24.69	QP	10.02	34.71	60.00	-25.29

- 註： 1. “----”表示量測準峰值的結果符合平均值的限制值，則視為同時符合準峰值與平均值的限制值，不需再對其平均值進行量測。
 2. “#”表示干擾值太小，直接量取其峰值。
 3. 標記“***”表示為本地震盪頻率及其諧波。
 4. 量測不準確度: $\pm 2.5\text{dB}$ ($150\text{kHz} \leq f \leq 30\text{MHz}$)。

4.4.3 測試狀態: Mode K

File: 20-10-MAS-019

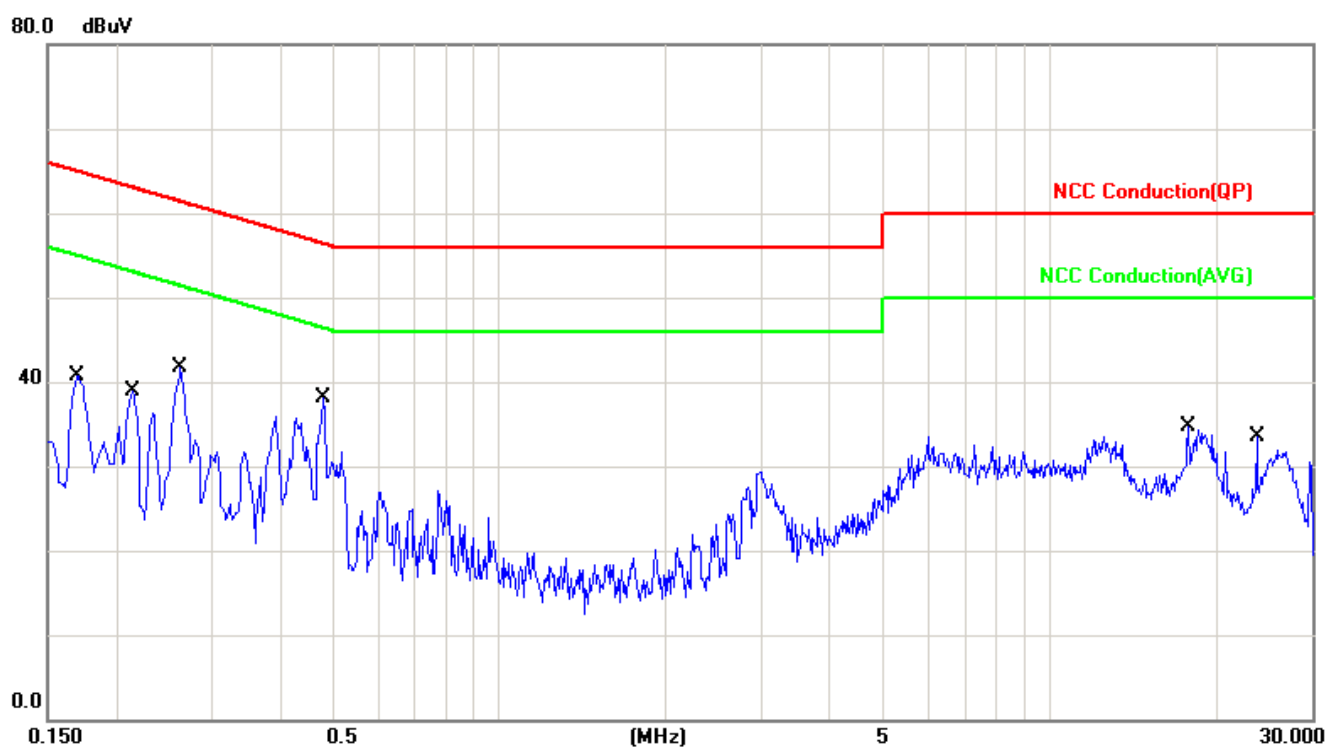
#28

Date: 2020/11/14

Temperature: 22 °C

Time: 上午 11:49:17

Humidity: 60 %



Site: CE04-10M 2F
 Condition: NCC Conduction(QP)
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal2
 Note: HDMI+USB+BT+WiFi

Phase: L1
 Power: AC 110V/60Hz
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.170	31.12	QP	9.66	40.78	64.96	-24.18
2	0.214	29.19	QP	9.65	38.84	63.05	-24.21
3	0.262	32.03	QP	9.65	41.68	61.37	-19.69
*4	0.478	28.35	QP	9.66	38.01	56.37	-18.36
5	17.902	24.87	QP	9.91	34.78	60.00	-25.22
6	23.870	23.53	QP	9.93	33.46	60.00	-26.54

- 註： 1. “----”表示量測準峰值的結果符合平均值的限制值，則視為同時符合準峰值與平均值的限制值，不需再對其平均值進行量測。
 2. “#”表示干擾值太小，直接量取其峰值。
 3. 標記“***”表示為本地震盪頻率及其諧波。
 4. 量測不準確度: $\pm 2.5\text{dB}$ ($150\text{kHz} \leq f \leq 30\text{MHz}$)。

File: 20-10-MAS-019

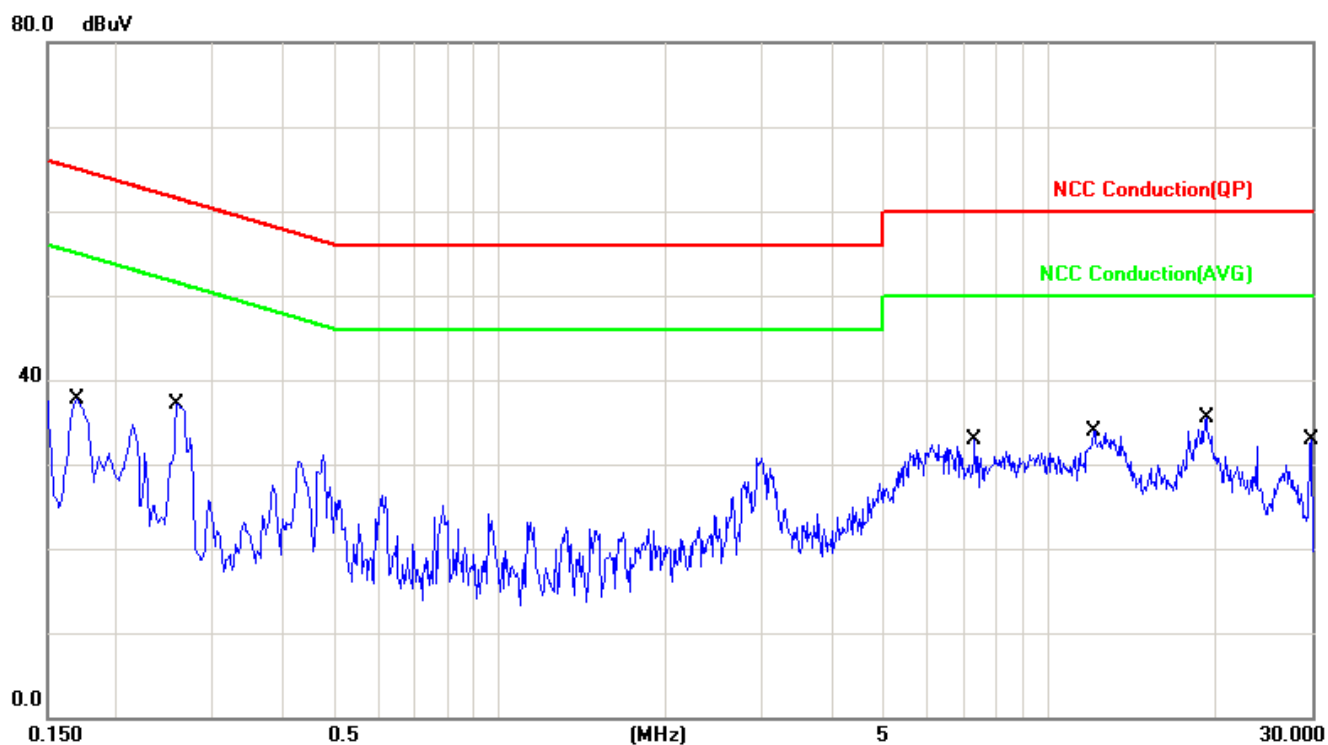
#27

Date: 2020/11/14

Temperature: 22 °C

Time: 上午 11:47:41

Humidity: 60 %



Site: CE04-10M 2F
 Condition: NCC Conduction(QP)
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal2
 Note: HDMI+USB+BT+WiFi

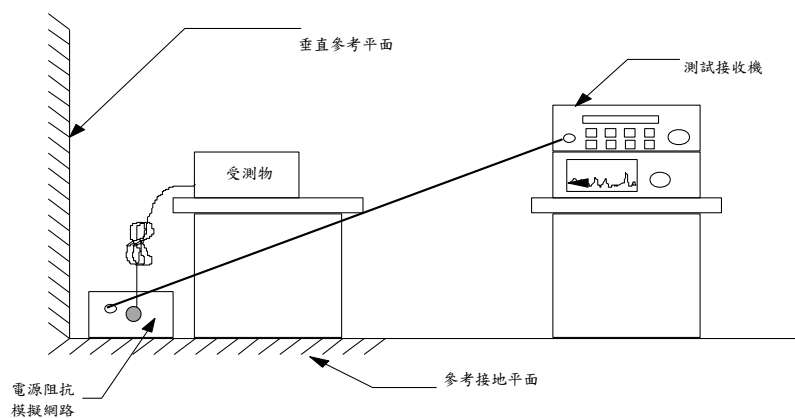
Phase: N
 Power: AC 110V/60Hz
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.170	28.06	QP	9.60	37.66	64.96	-27.30
*2	0.258	27.55	QP	9.59	37.14	61.50	-24.36
3	7.294	23.16	QP	9.74	32.90	60.00	-27.10
4	12.038	24.16	QP	9.84	34.00	60.00	-26.00
5	19.306	25.44	QP	9.99	35.43	60.00	-24.57
6	29.842	22.86	QP	10.04	32.90	60.00	-27.10

- 註： 1. “----”表示量測準峰值的結果符合平均值的限制值，則視為同時符合準峰值與平均值的限制值，不需再對其平均值進行量測。
 2. “#”表示干擾值太小，直接量取其峰值。
 3. 標記“***”表示為本地震盪頻率及其諧波。
 4. 量測不準確度: $\pm 2.5\text{dB}$ ($150\text{kHz} \leq f \leq 30\text{MHz}$)。

4.5 電源線傳導干擾之測試配置

圖 1



4.6 傳導量測之配置照片

請參考產品照片

5 天線增益之要求

5.1 適用標準

國家通訊傳播委員會低功率射頻器材技術規範5.7.8節規定，天線之規格不受3.2 規定之限制。若使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

5.2 天線增益

此裝置內含兩隻天線均使用內接式天線，其天線資料如下：

Antenna1(CHAIN 0)：

廠牌：LUXSHARE-ICT

型號：L34RF052

Antenna Type	IFA
Operation Frequency Range	5150~5850 MHz
Antenna Gain	5.0 dBi

Antenna2(CHAIN 1)：

廠牌：LUXSHARE-ICT

型號：L34RF049

Antenna Type	IFA
Operation Frequency Range	5150~5850 MHz
Antenna Gain	2 dBi

(參照天線規格資料)

操作於MIMO模式下，Antenna1(CHAIN 0)+Antenna2(CHAIN 1) = 6.64 dBi，天線之方向性增益大於 6dBi。

5.3 結果判定

CHAIN 0 及 CHAIN 1 之方向性增益皆未超過 6 dBi，因此不需減少最大傳導輸出功率及功率密度之限制值。

操作在MIMO模式下，CHAIN 0 + CHAIN 1 之天線增益為 6.64 dBi 高於6dBi，因此需減少最大傳導輸出功率及功率密度之限制值。

6 發射頻寬之量測

6.1 適用標準

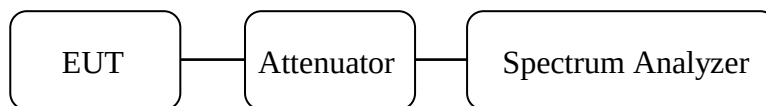
依據國家通訊傳播委員會低功率射頻器材技術規範5.7.3.2節(1)之規定。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B 是26 dB發射頻寬，單位MHz)之較小者。

國家通訊傳播委員會低功率射頻器材技術規範5.7節無規定限制值，僅提供數據參考計算用。

6.2 測試配置

圖 2：發射頻寬之測試配置



6.3 發射頻寬之量測儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

6.4 量測結果

測試工程師: 羅世勇

6.4.1 調變技術: IEEE 802.11a

測試日期: Oct. 30, 2020

環境溫度 : 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	20.6756	Page 34
M	20.6756	Page 35
H	20.5942	Page 36

註：繪圖資料請參考第 34-36 頁。

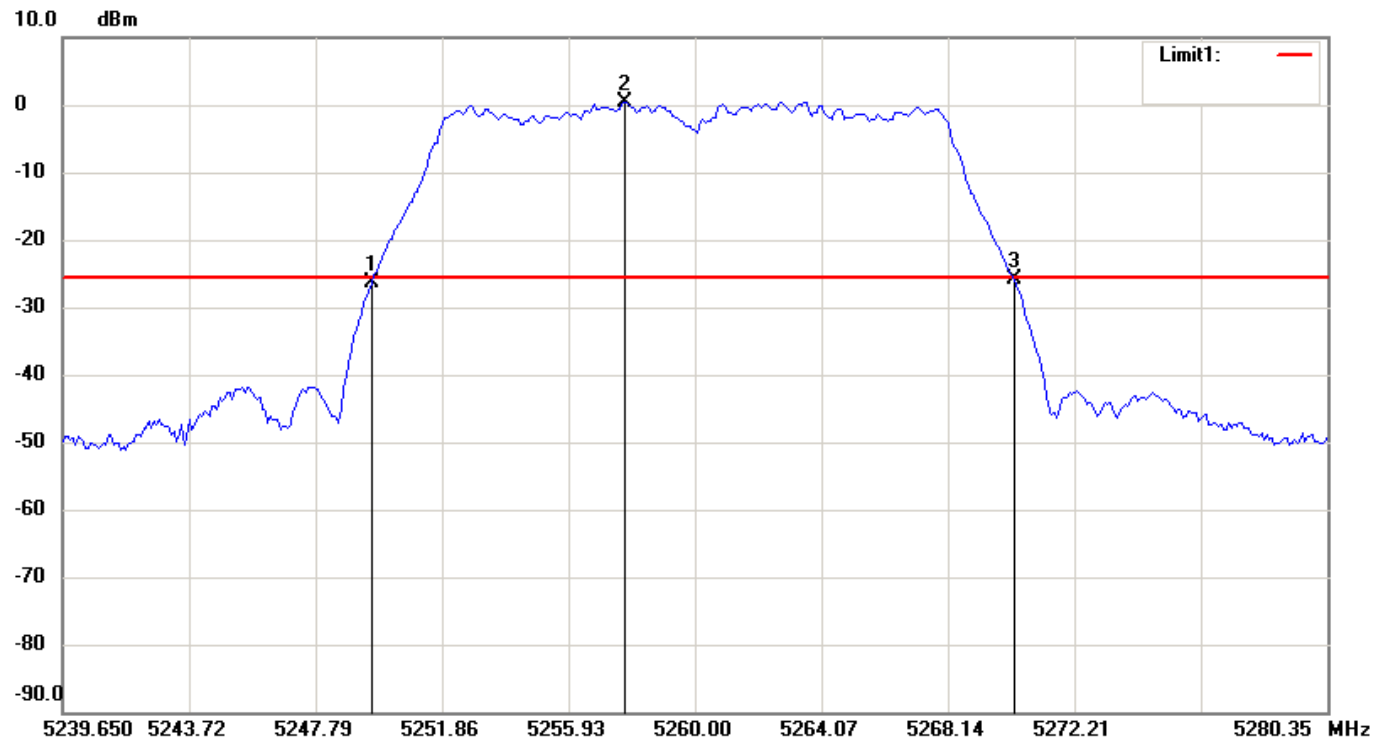
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#2

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: -25.63dBm
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a Channel 52_-26dB EBW

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 300 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5249.58080	-26.46
2	5257.72080	0.37
3	5270.25640	-25.91

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	20.6756	0.55

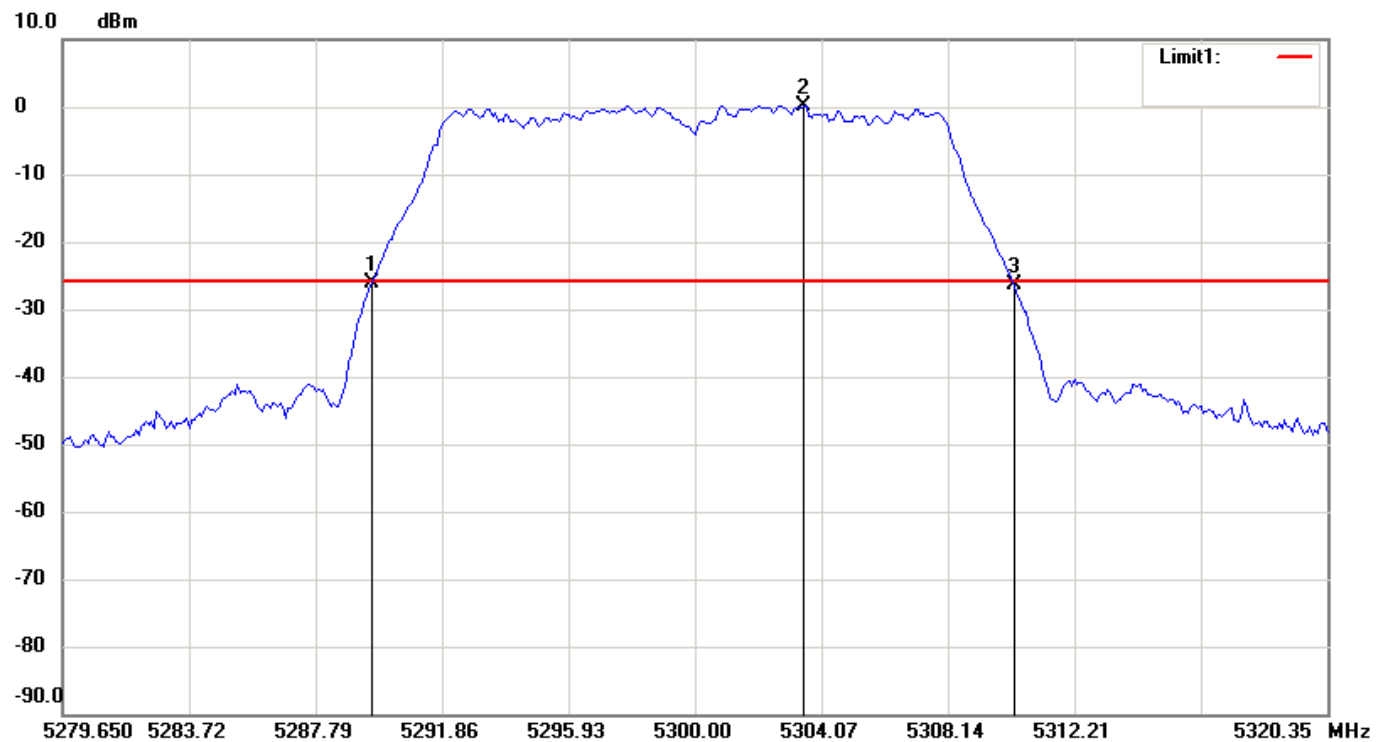
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#9

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: -25.75dBm

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11a Channel 60_-26dB EBW

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 300 KHz

Operator:

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5289.58080	-26.23
2	5303.50020	0.25
3	5310.25640	-26.32

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	20.6756	-0.09

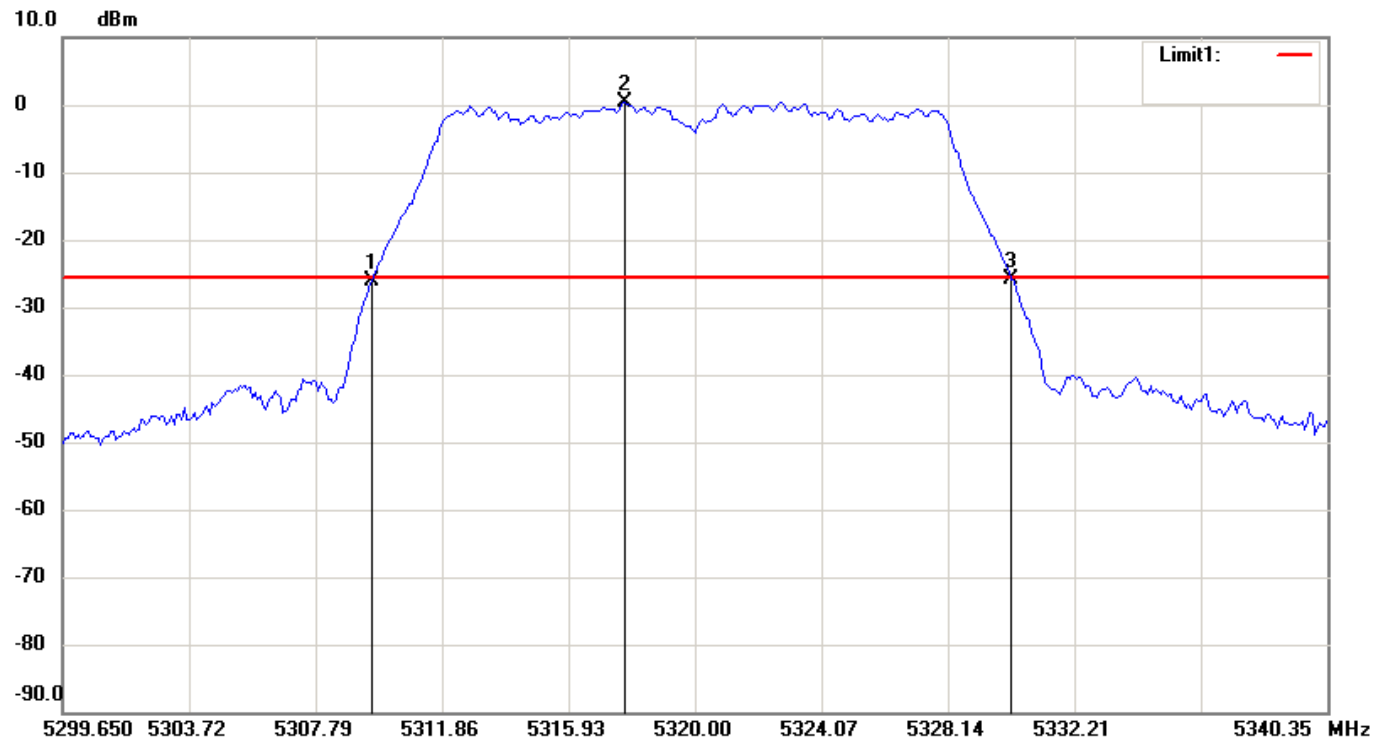
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#15

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: -25.64dBm
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a Channel 64_-26dB EBW

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 300 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5309.58080	-26.22
2	5317.72080	0.36
3	5330.17500	-25.86

No.		ΔFrequency(MHz)	ΔLevel(dB)
1	mk3-mk1	20.5942	0.36

6.4.2 調變技術: IEEE 802.11ax (20MHz)

6.4.2.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	21.0826	Page 38
M	20.9198	Page 39
H	21.0012	Page 40

註：繪圖資料請參考第 38-40 頁。

File: 20-10-MAS-019_5-3ax20_ANT1

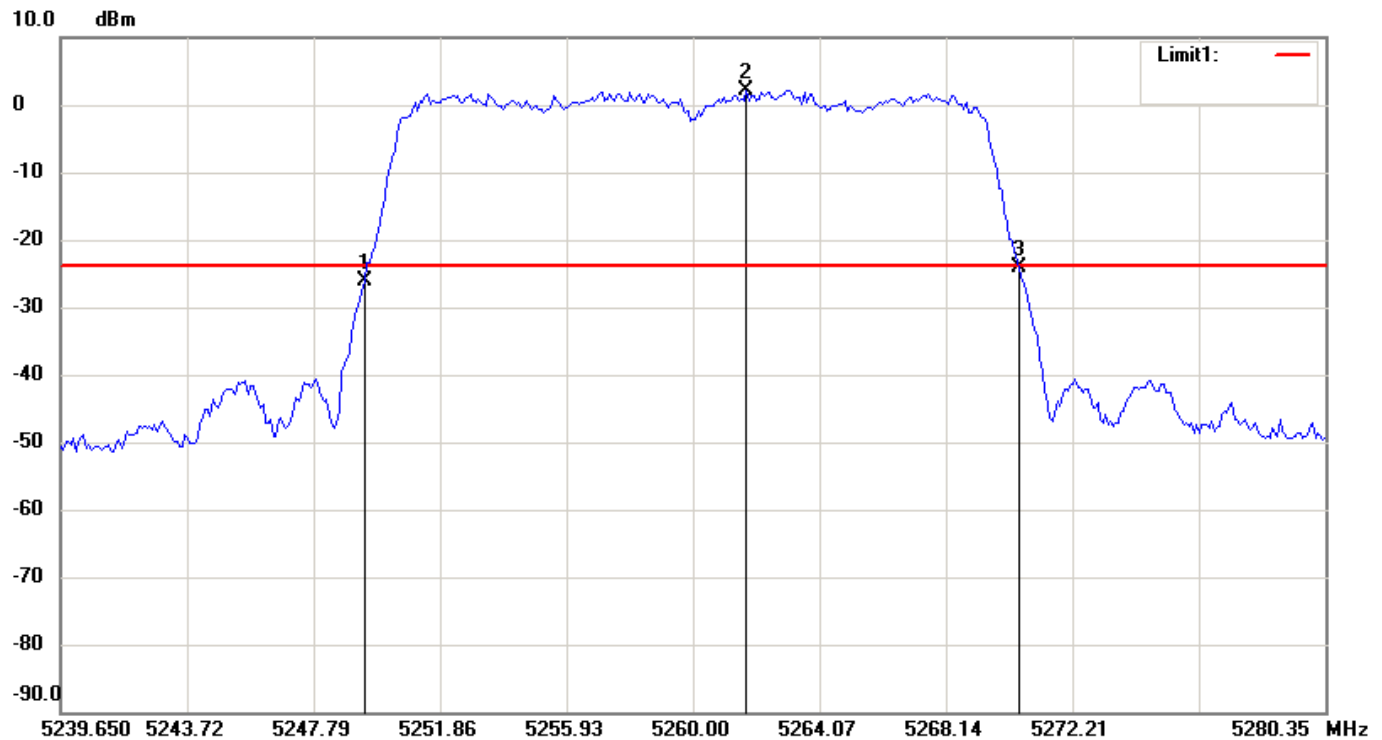
#2

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.76dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 300 KHz

VBW: 1000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax20 Channel 52_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5249.41800	-26.20
2	5261.70940	2.24
3	5270.50060	-24.16

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	21.0826	2.04

File: 20-10-MAS-019_5-3ax20_ANT1

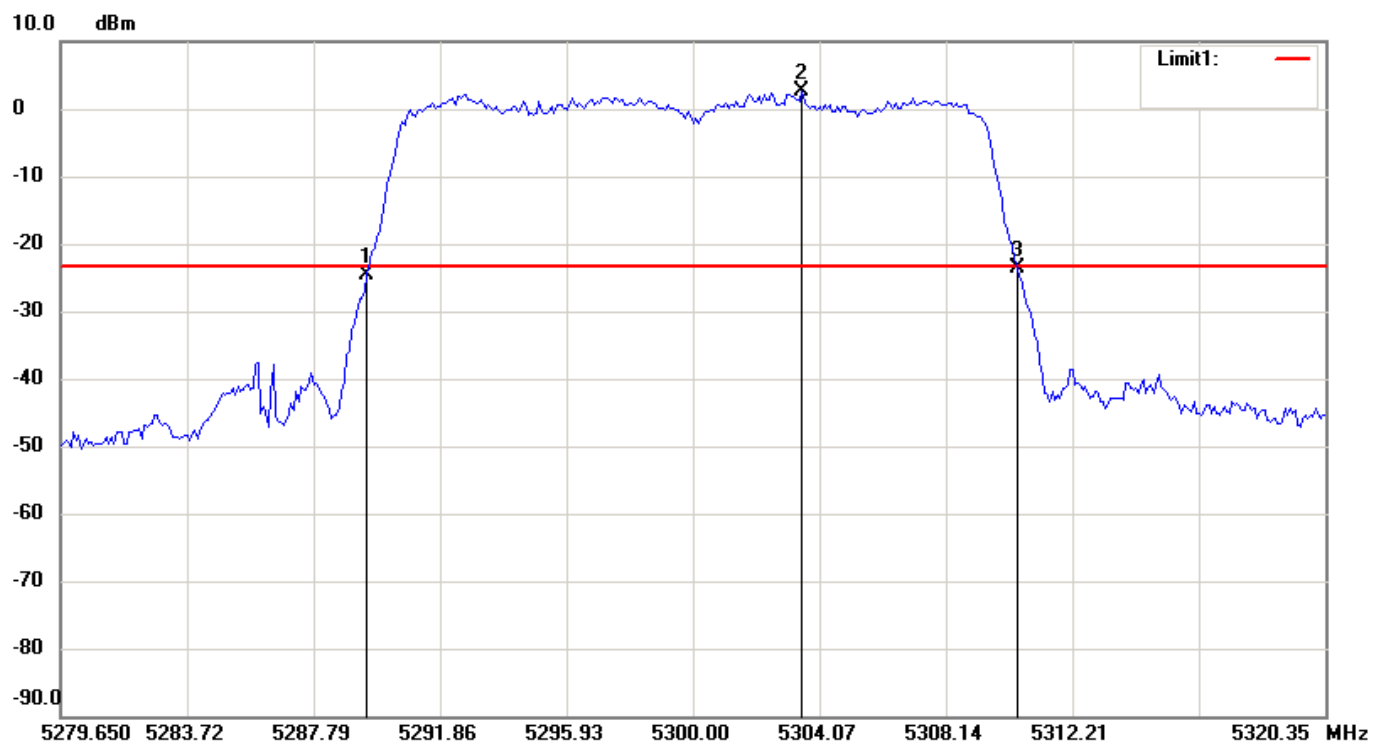
#9

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.46dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 300 KHz

VBW: 1000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax20 Channel 60_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5289.49940	-24.52
2	5303.50020	2.54
3	5310.41920	-23.63

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	20.9198	0.89

File: 20-10-MAS-019_5-3ax20_ANT1

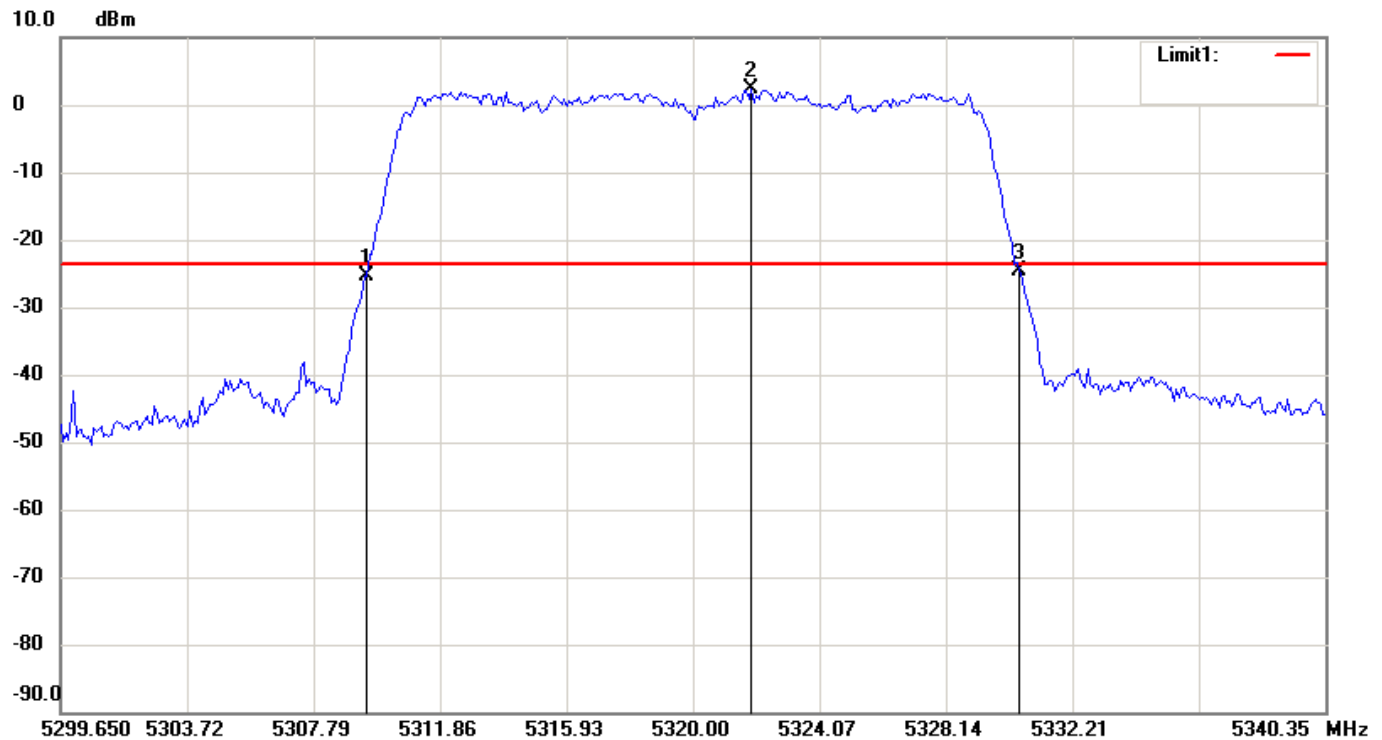
#15

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.74dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 300 KHz

VBW: 1000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax20 Channel 64_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5309.49940	-25.38
2	5321.87220	2.26
3	5330.50060	-24.50

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	21.0012	0.88

6.4.2.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	20.9198	Page 42
M	21.0012	Page 43
H	20.7570	Page 44

註：繪圖資料請參考第 42-44 頁。

File: 20-10-MAS-019_5-3ax20_ANT2

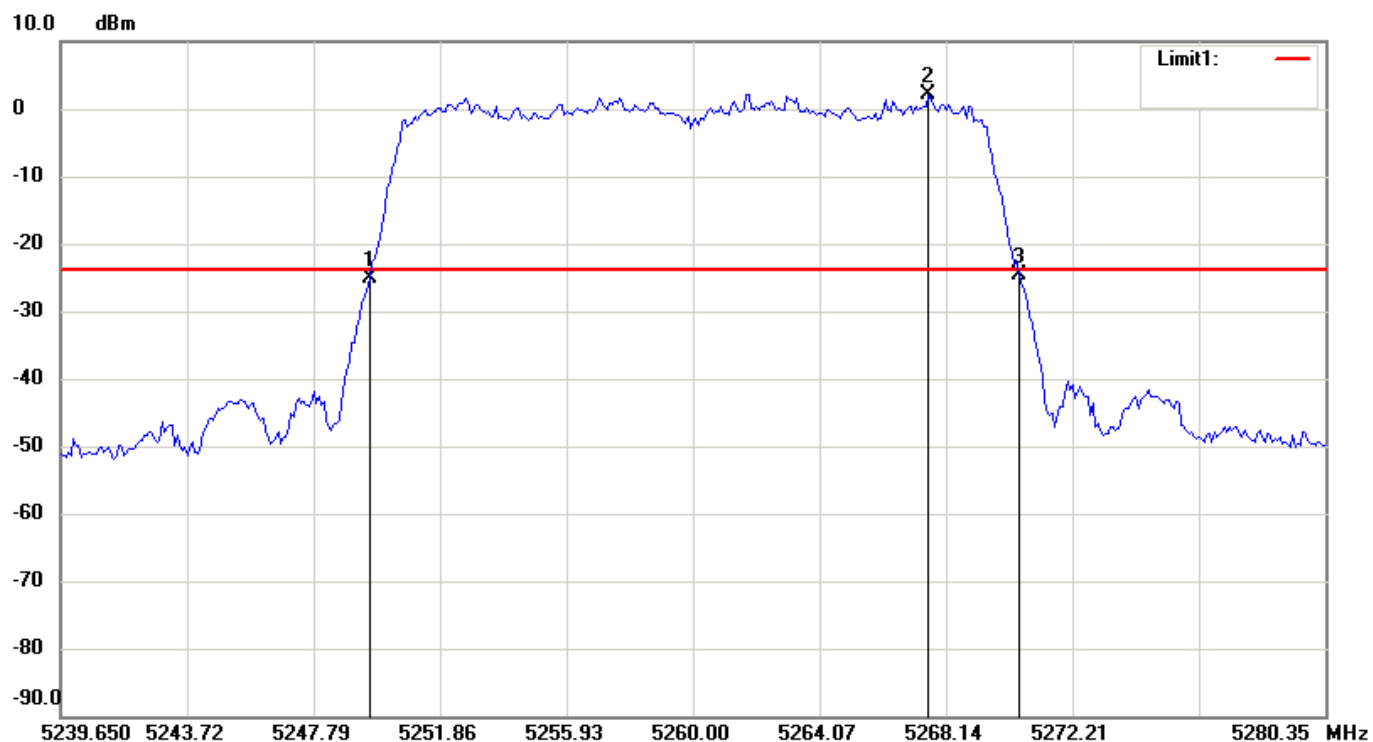
#2

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.87dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 300 KHz

VBW: 1000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax20 Channel 52_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5249.58080	-25.17
2	5267.57020	2.13
3	5270.50060	-24.57

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	20.9198	0.6

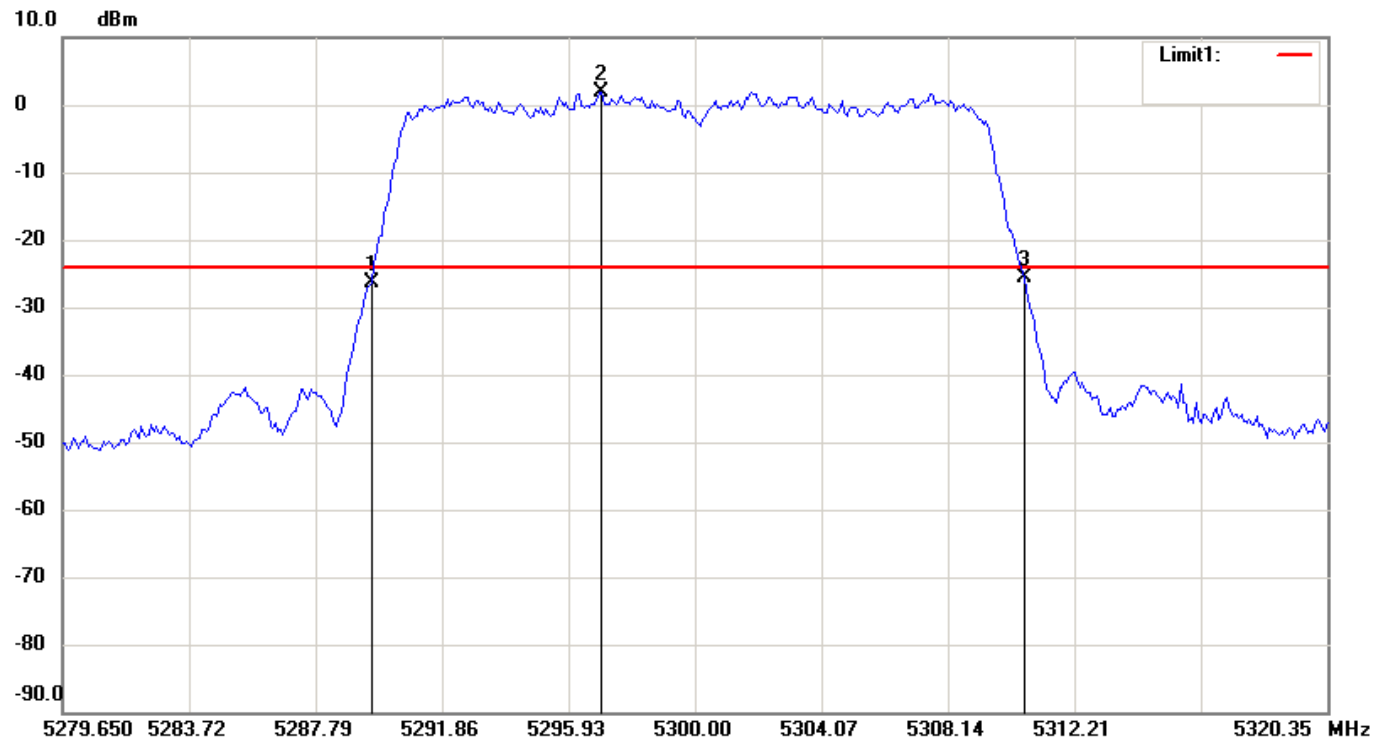
File: 20-10-MAS-019_5-3ax20_ANT2
Site: RF-Cond01

#9

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: -24.14dBm

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20 Channel 60_-26dB EBW

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 300 KHz

Operator:

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5289.58080	-26.26
2	5296.98820	1.86
3	5310.58200	-25.50

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	21.0012	0.76

File: 20-10-MAS-019_5-3ax20_ANT2

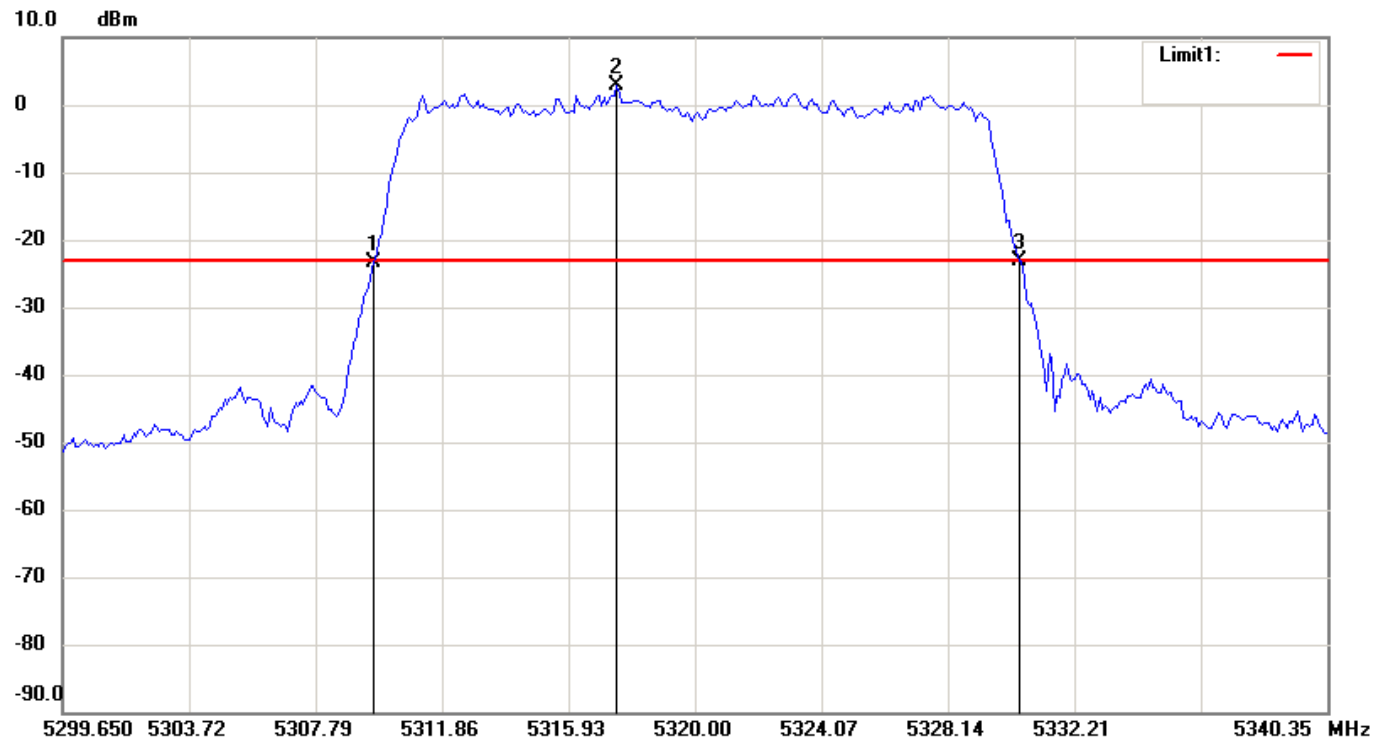
#15

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.13dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 300 KHz

VBW: 1000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax20 Channel 64_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5309.66220	-23.42
2	5317.47660	2.87
3	5330.41920	-23.24

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	20.757	0.18

6.4.3 調變技術: IEEE 802.11ax (40MHz)

6.4.3.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	41.3004	Page 46
H	41.3004	Page 47

註：繪圖資料請參考第 46-47 頁。

File: 20-10-MAS-019_5-3ax40_ANT1

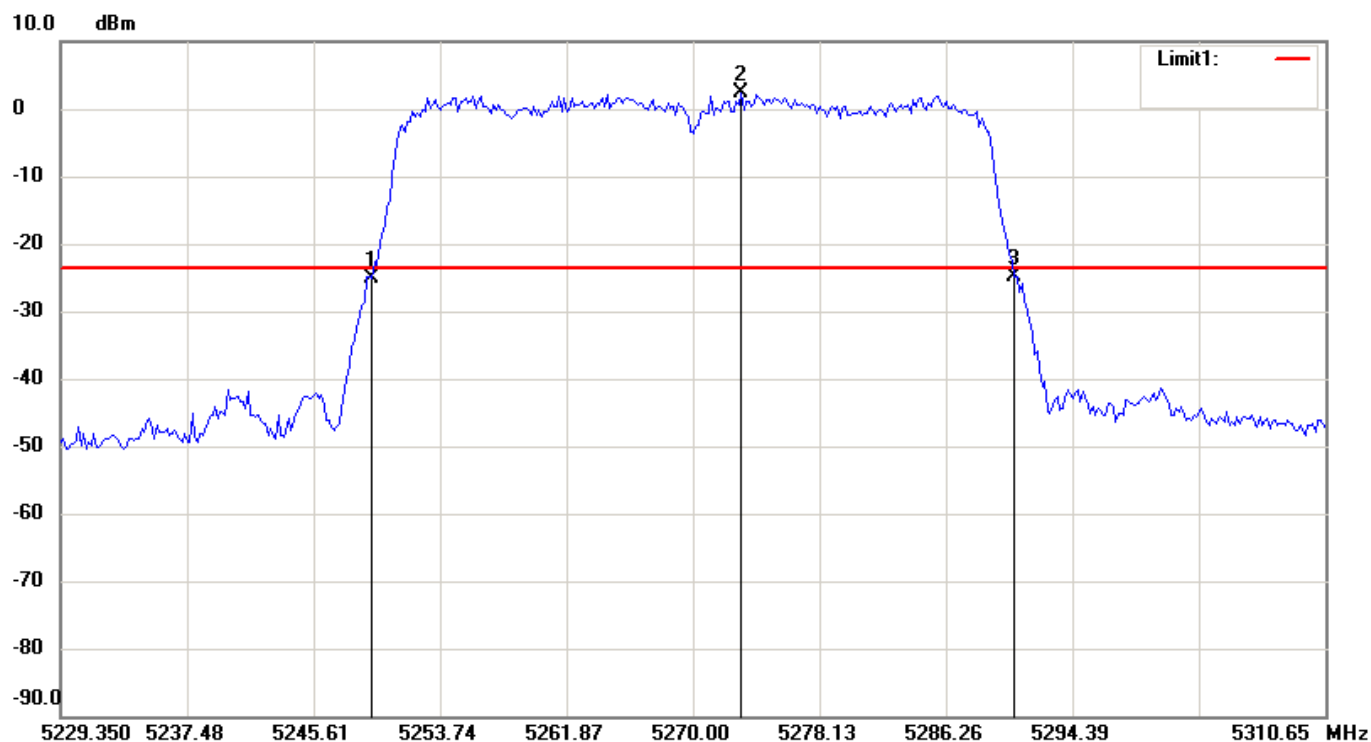
#2

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.7dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 500 KHz

VBW: 3000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax40 Channel 54_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5249.34980	-25.23
2	5273.08940	2.30
3	5290.65020	-24.87

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	41.3004	0.36

File: 20-10-MAS-019_5-3ax40_ANT1

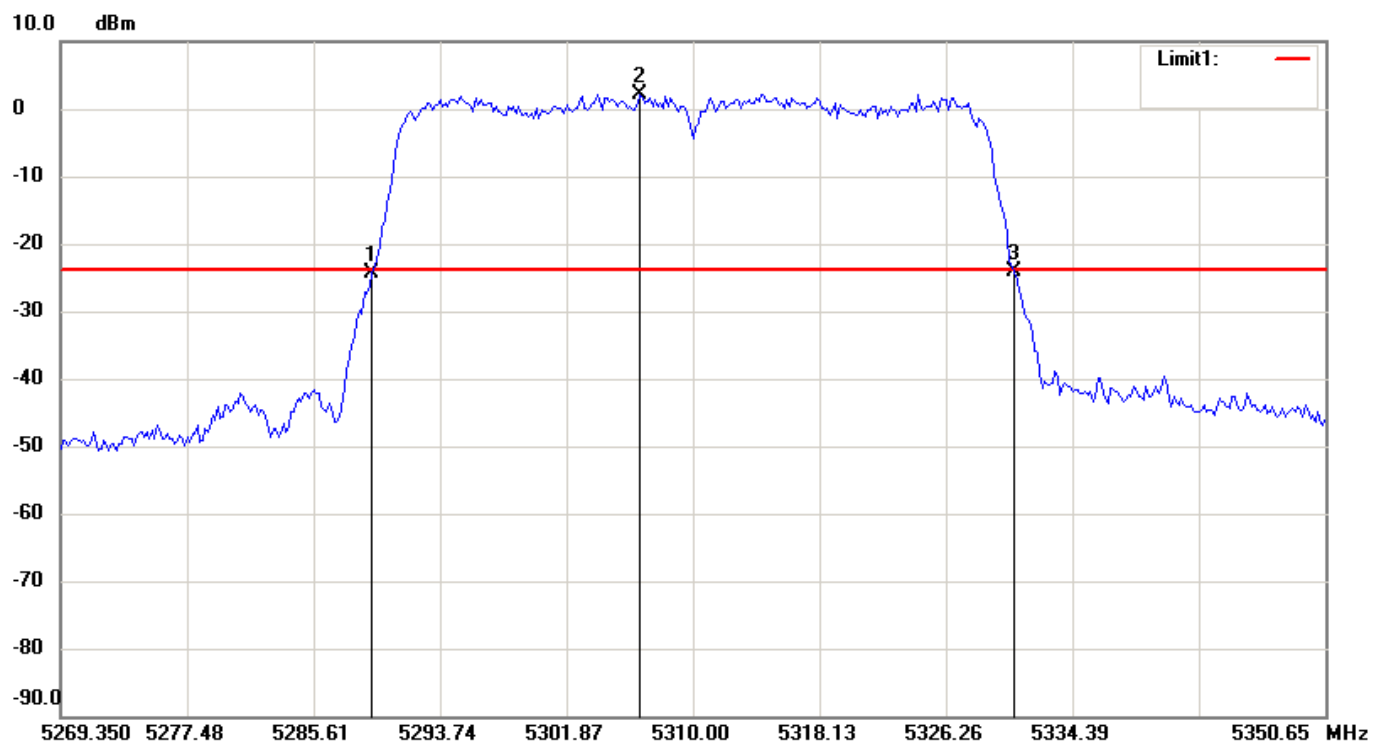
#9

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.85dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 500 KHz

VBW: 3000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax40 Channel 62_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5289.34980	-24.48
2	5306.58540	2.15
3	5330.65020	-24.05

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	41.3004	0.43

6.4.3.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	40.9752	Page 49
H	41.1378	Page 50

註：繪圖資料請參考第 49-50 頁。

File: 20-10-MAS-019_5-3ax40_ANT2

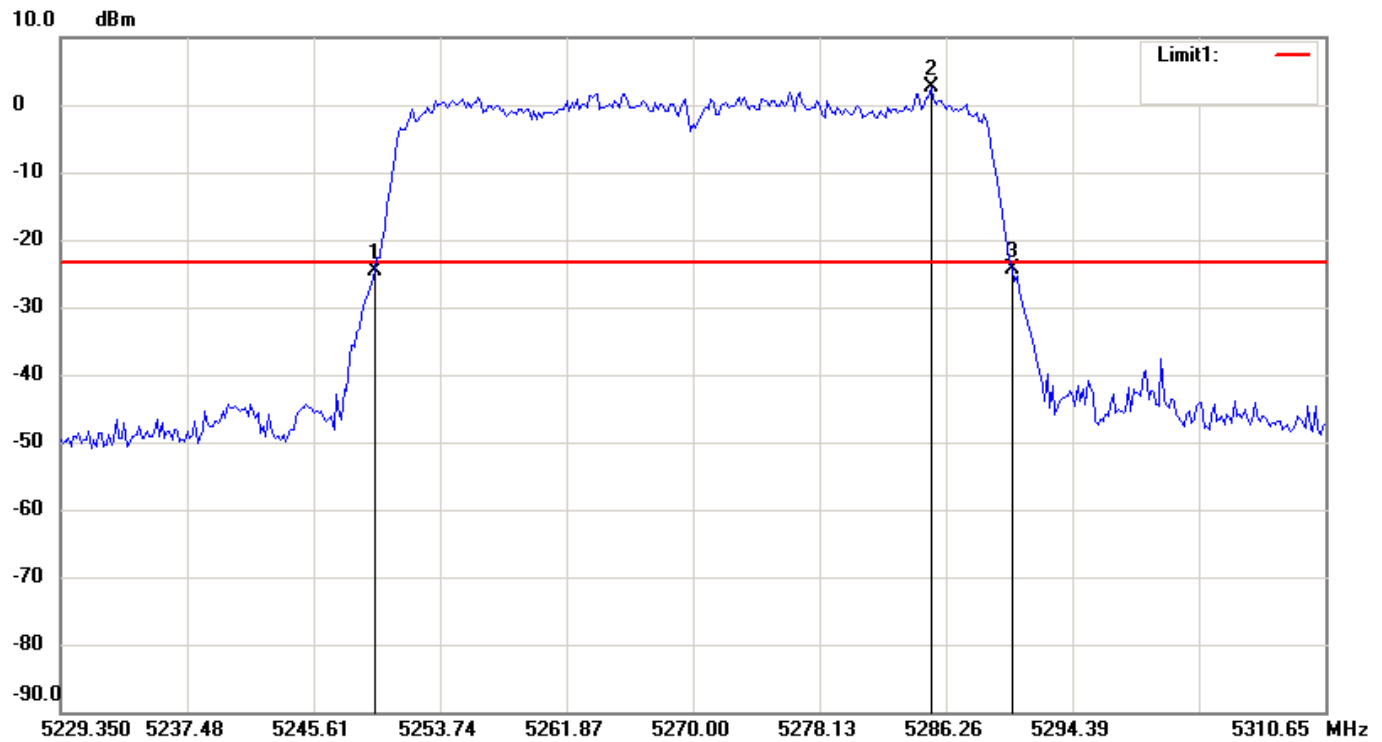
#2

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.33dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 500 KHz

VBW: 3000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax40 Channel 54_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5249.51240	-24.59
2	5285.28440	2.67
3	5290.48760	-24.46

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	40.9752	0.13

File: 20-10-MAS-019_5-3ax40_ANT2

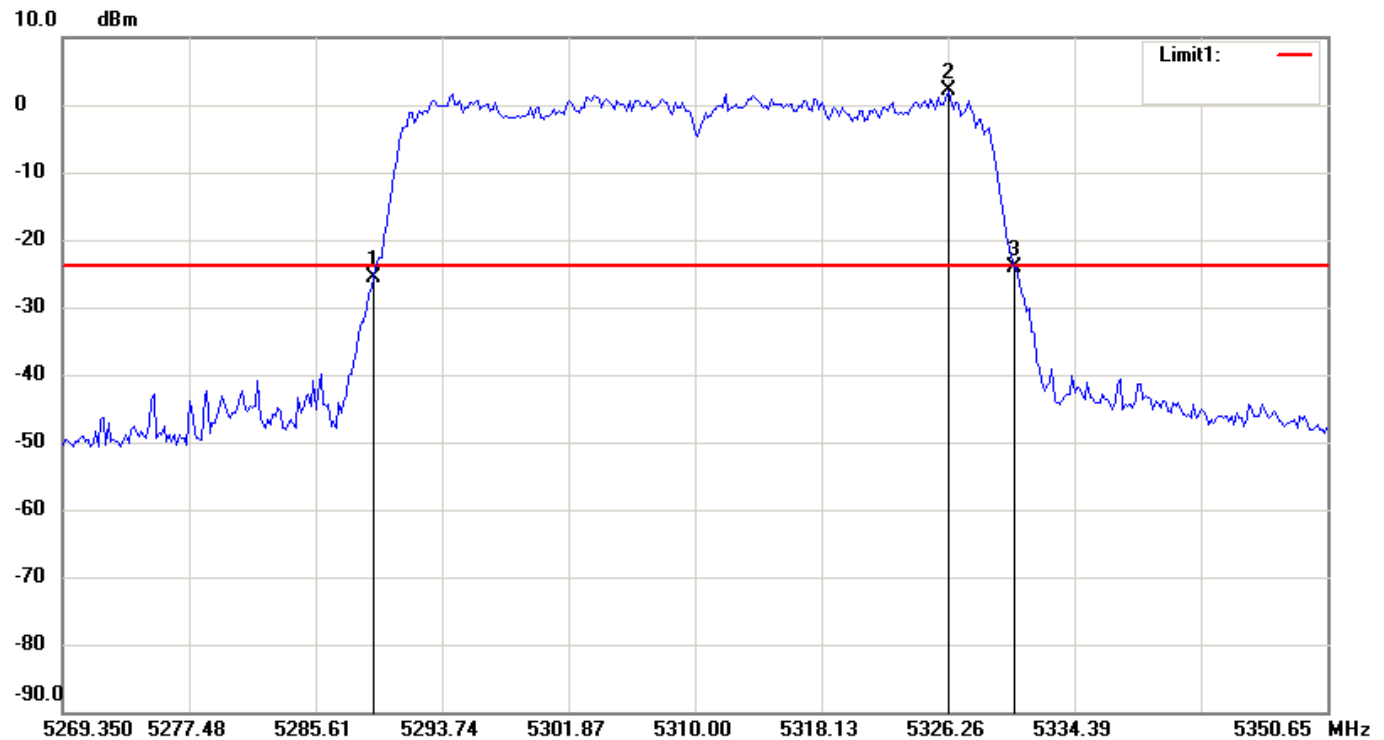
#9

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.97dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 500 KHz

VBW: 3000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax40 Channel 62_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5289.34980	-25.50
2	5326.26000	2.03
3	5330.48760	-24.01

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	41.1378	1.49

6.4.4 調變技術:IEEE 802.11ax (80MHz)

6.4.4.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	81.5000	Page 52

註：繪圖資料請參考第 52 頁。

File: 20-10-MAS-019_5-3ax80_ANT1

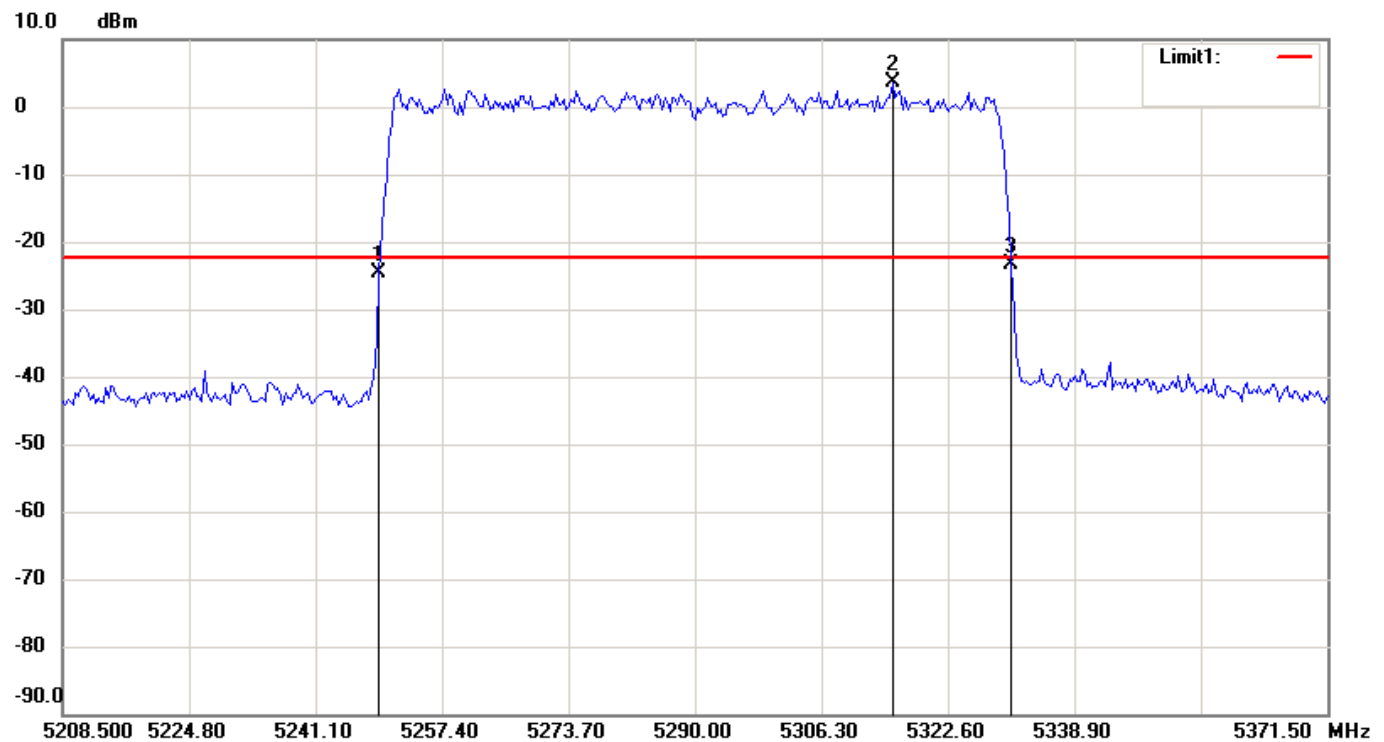
#2

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -22.32dBm

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 1000 KHz

VBW: 3000 KHz

Test Mode: UNII

Operator:

Phillip

Note: NCC_LP0002_802.11ax80 Channel 58_-26dB EBW

No.	Frequency(MHz)	Level(dBm)
1	5249.25000	-24.65
2	5315.42800	3.68
3	5330.75000	-23.40

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	81.5	1.25

6.4.4.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Channel	26dB Bndwidth (MHz)	Chart
L	81.8260	Page 54

註：繪圖資料請參考第 54 頁。

6.5 結果判定

僅提供數據，無須判定。

File: 20-10-MAS-019_5-3ax80_ANT2

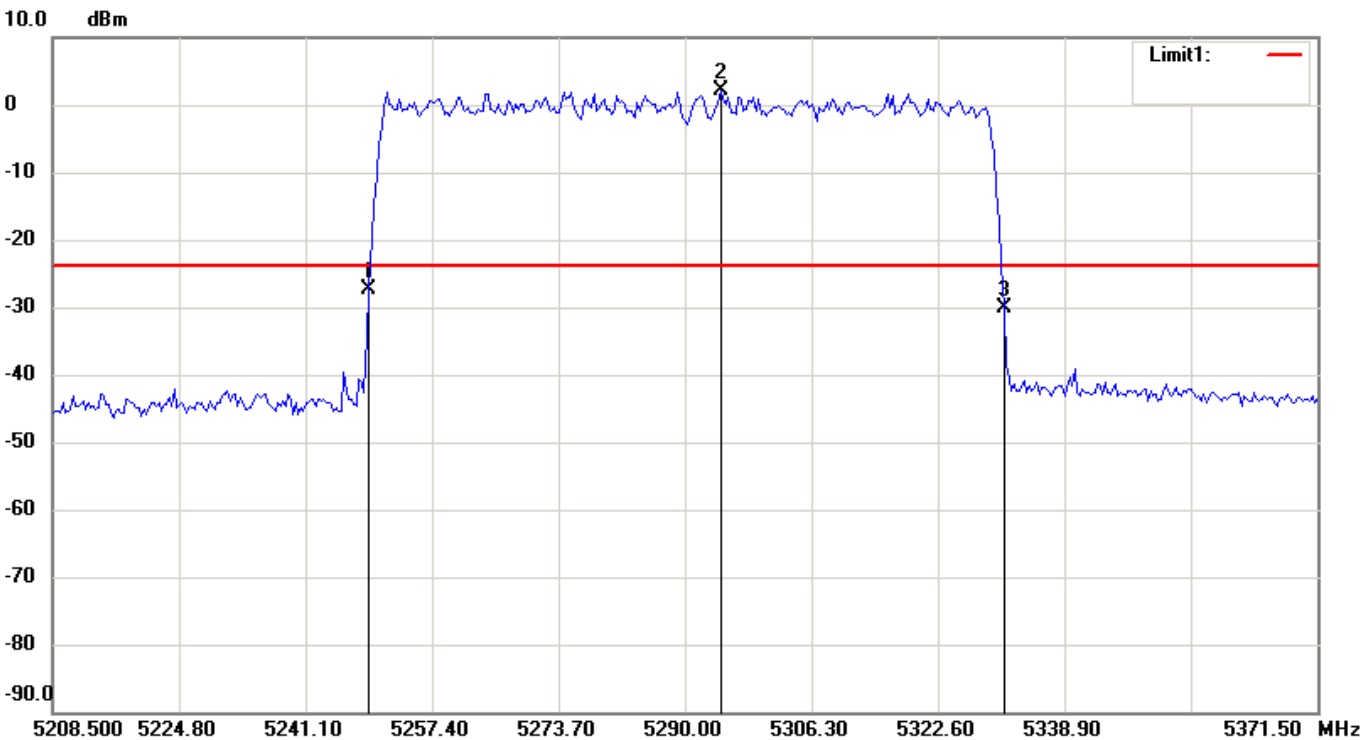
#2

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: -23.79dBm

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax80 Channel 58_-26dB EBW

RF Conducted

Sweep Time: 1ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 3000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	5249.25000	-27.29
2	5294.56400	2.21
3	5331.07600	-30.24

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	81.826	-2.95

7 最大傳導輸出功率之量測

7.1 最大傳導輸出功率適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.3.2節(1)(3)之規定：

5.7.3.2節(1)：5.25 GHz～5.35 GHz頻帶，最大傳導輸出功率應小於或等於250 mW或11dBm+10log B (B 是26 dB發射頻寬，單位MHz)之較小者。

5.7.3.2節(3)：使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

7.2 最大傳導輸出功率之測試配置

如圖 2 所示。

7.3 最大傳導輸出功率之量測儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

7.4 最大傳導輸出功率之量測結果

測試工程師: 羅世勇

7.4.1 調變技術: IEEE 802.11a

7.4.1.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	20.676	24.15	8.72	24	Page 57
M	24	20.676	24.15	8.69	24	Page 58
H	24	20.594	24.14	8.59	24	Page 59

註：1. 繪圖資料請參考第 57-59 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm

6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)

7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3a_ANT1

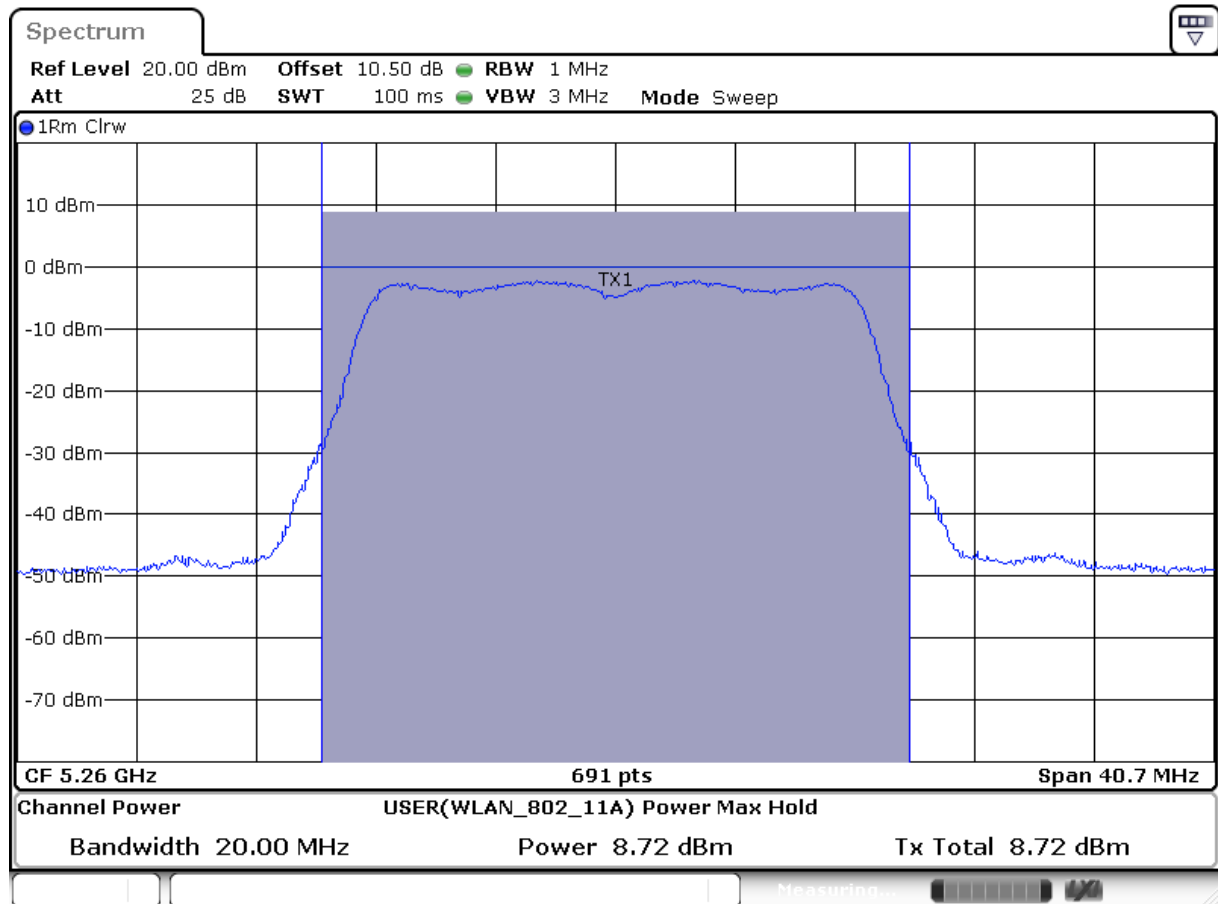
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 52_Output power

RF Conducted

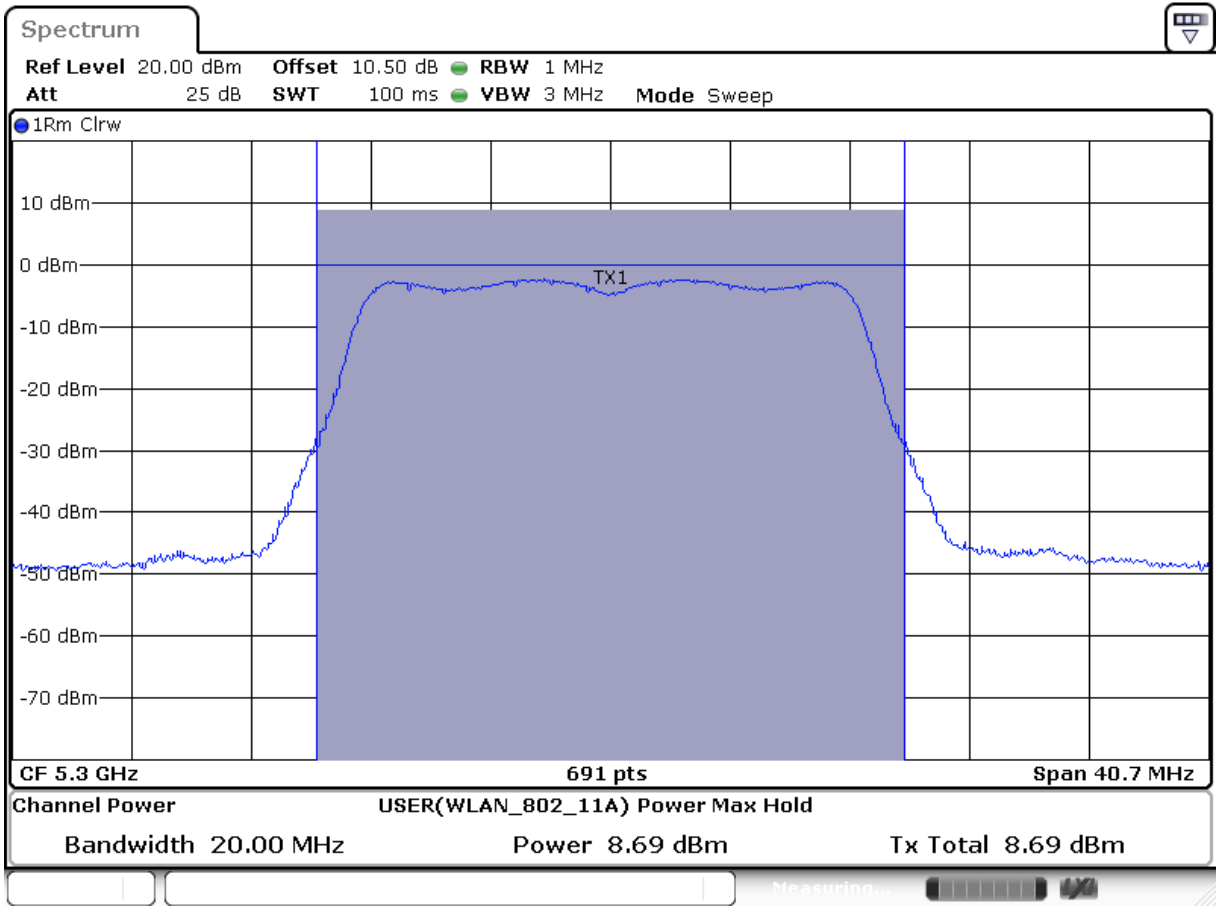
Sweep Time: 100ms Att.: 25dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

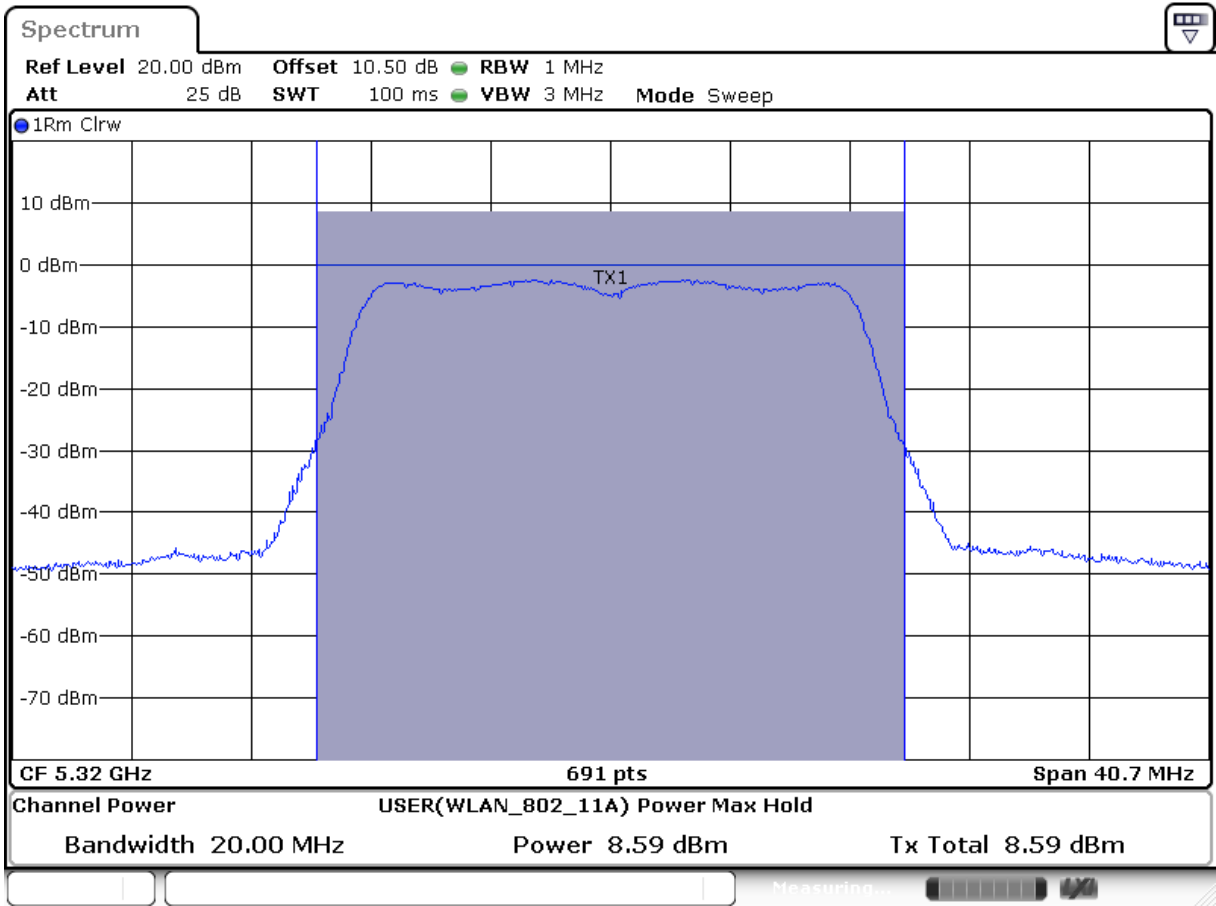
#8 Date: 2020/10/30 Temperature: 24 °C
Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11a_Channel 60_Output power	

File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#14 Date: 2020/10/30 Temperature: 24 °C
Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11a_Channel 64_Output power	

7.4.1.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	20.676	24.15	7.98	24	Page 61
M	24	20.676	24.15	7.96	24	Page 62
H	24	20.594	24.14	7.87	24	Page 63

註：1. 繪圖資料請參考第 61-63 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

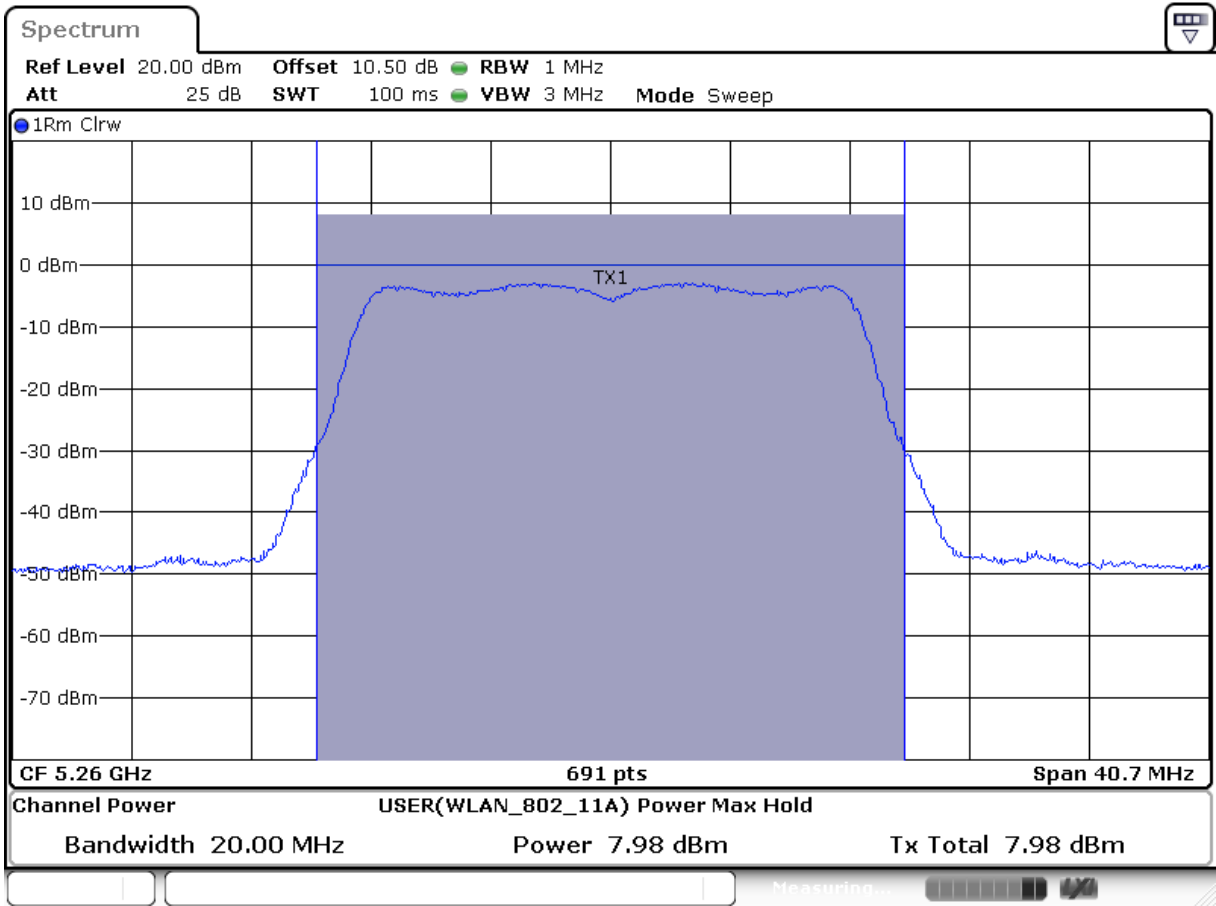
3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3a_ANT2
Site: RF-Cond01

#27 Date: 2020/10/30 Temperature: 24 °C
Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11a_Channel 52_Output power	

File: 20-10-MAS-019_5-3a_ANT2

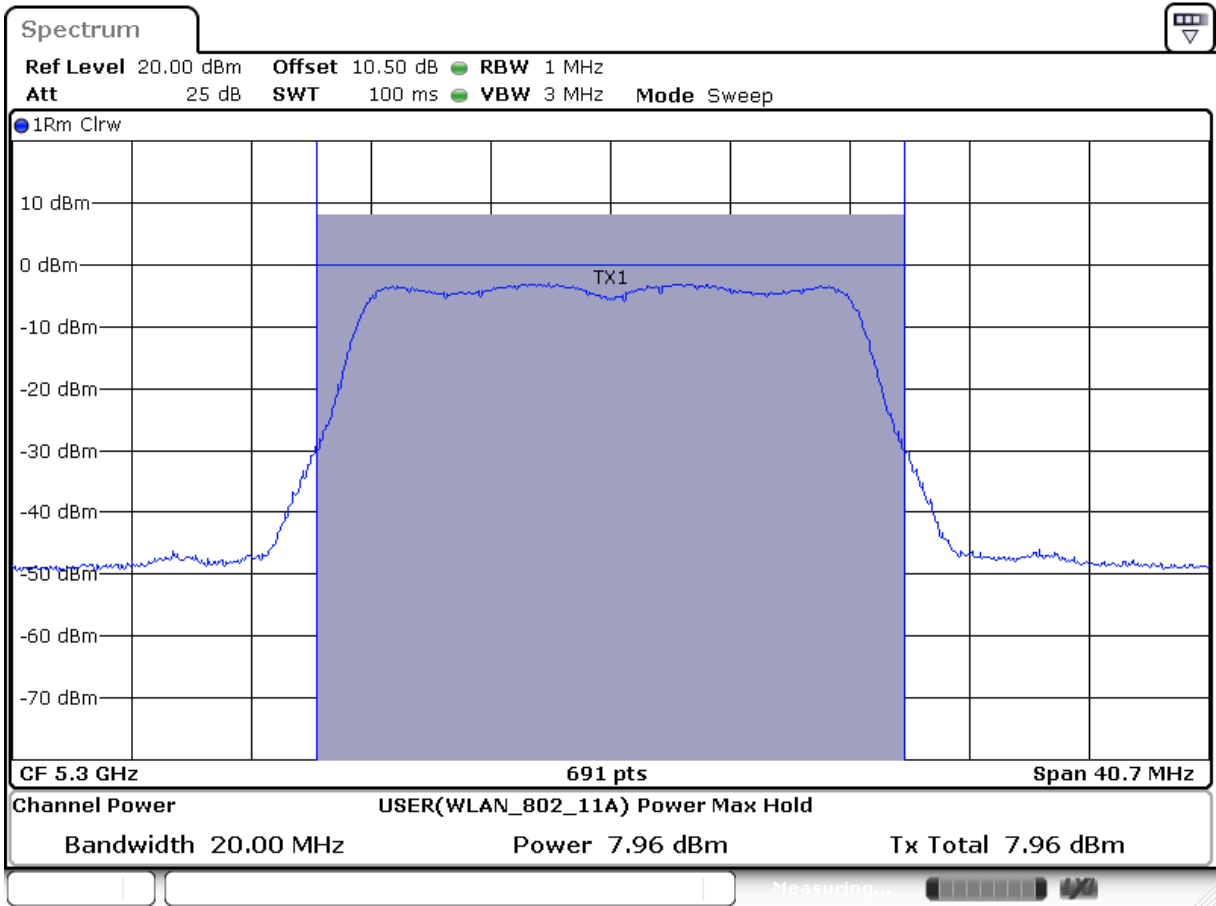
#24

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT:

Model:

Test Mode:

Note:

Development Kit for PlayStation5

DFI-D1000AA

UNII

NCC_LP0002_802.11a_Channel 60_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3a_ANT2

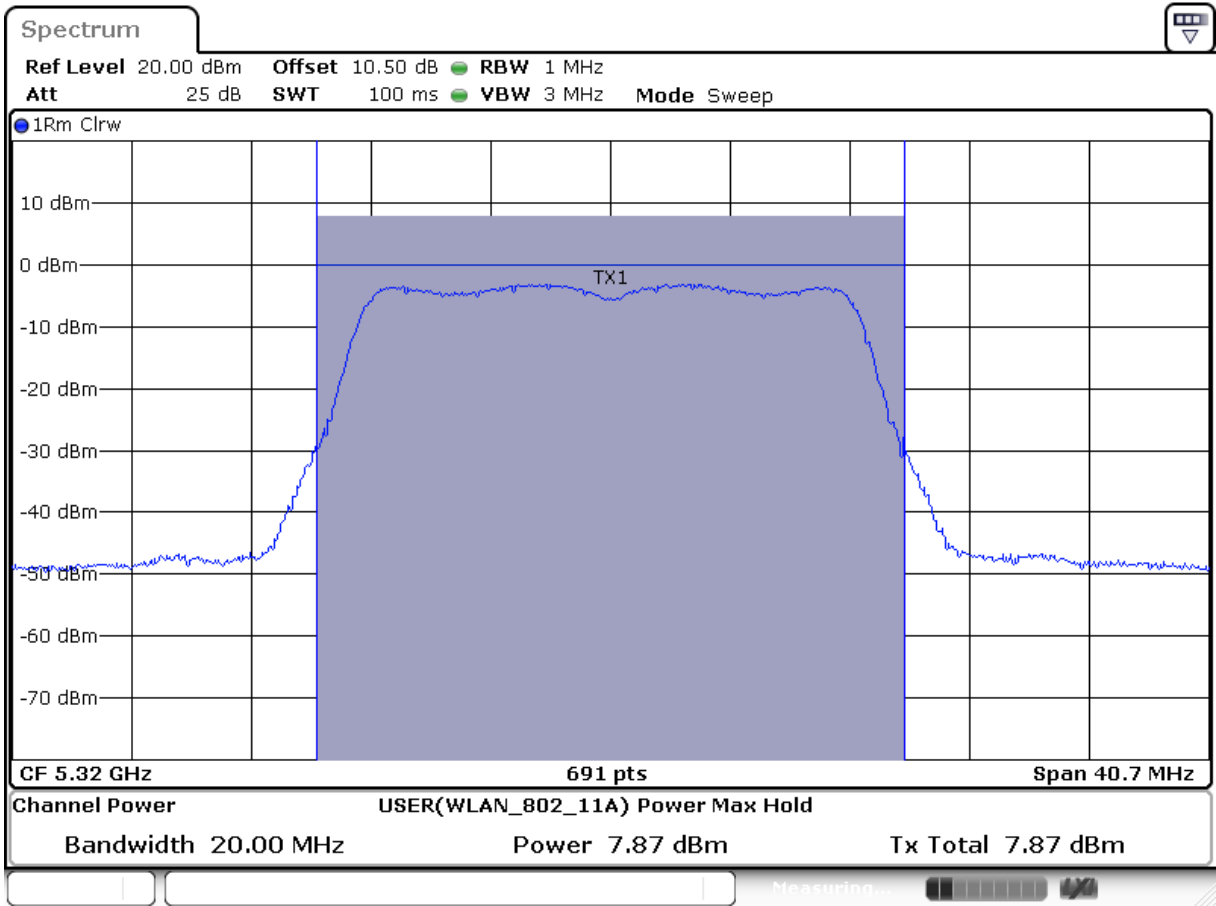
#21

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 64_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.2 調變技術:IEEE 802.11n HT20

7.4.2.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	21.083	24.24	8.70	24	Page 65
M	24	20.920	24.21	8.64	24	Page 66
H	24	21.001	24.22	8.57	24	Page 67

註：1. 繪圖資料請參考第 65-67 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3n20_ANT1

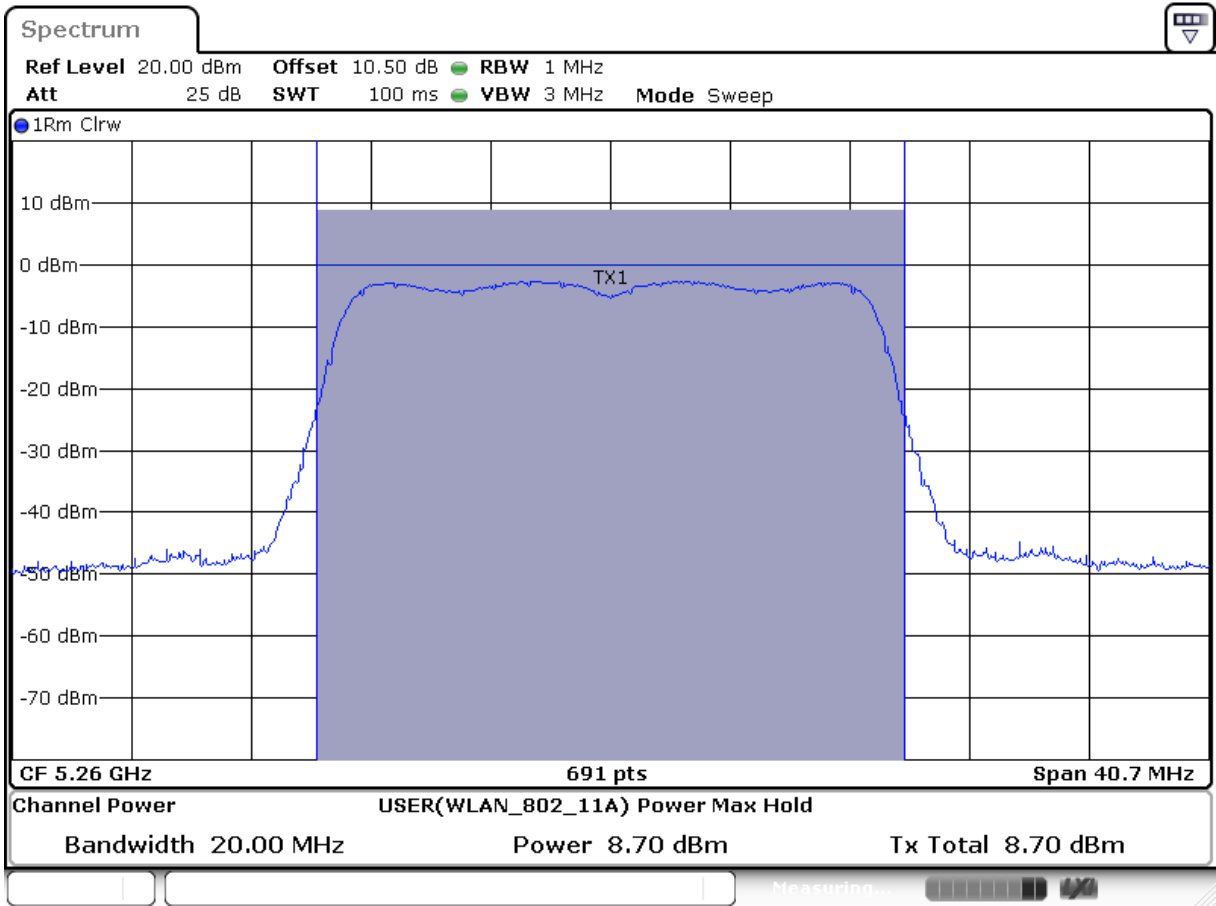
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11n20_Channel 52_Output power		

File: 20-10-MAS-019_5-3n20_ANT1

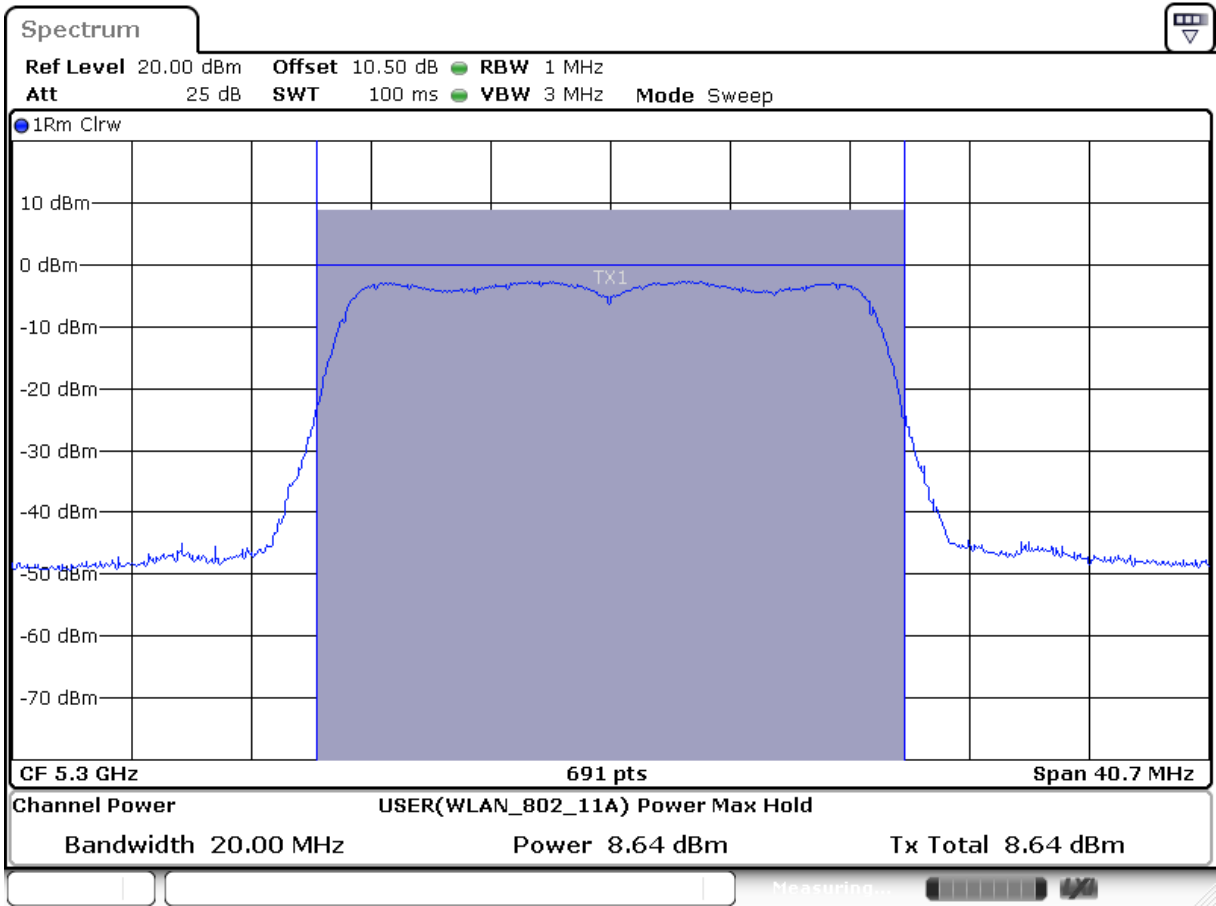
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11n20_Channel 60_Output power		

File: 20-10-MAS-019_5-3n20_ANT1

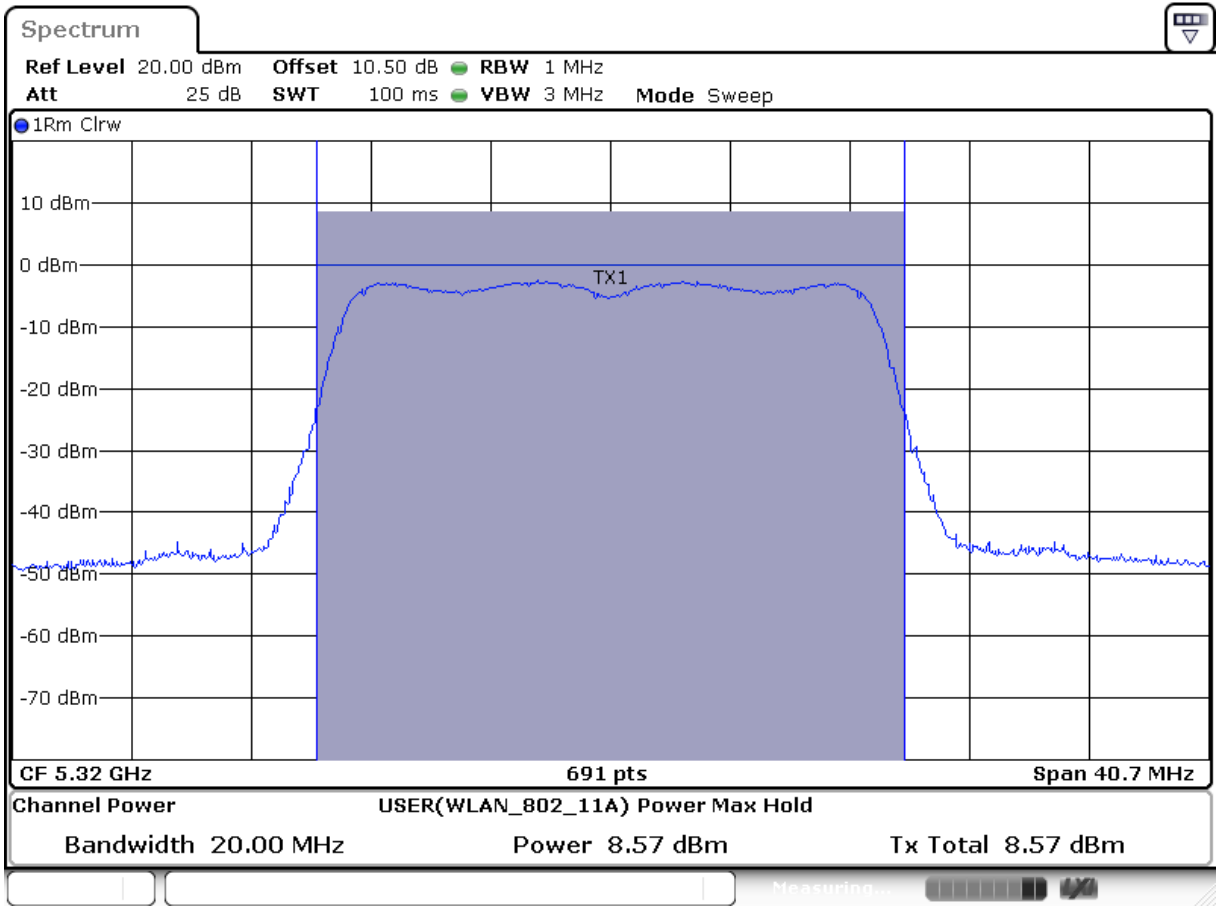
#14

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT:

Model:

Test Mode:

Note:

Development Kit for PlayStation5

DFI-D1000AA

UNII

NCC_LP0002_802.11n20_Channel 64_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.2.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	20.920	24.21	7.97	24.00	Page 69
M	24	21.001	24.22	7.96	24.00	Page 70
H	24	20.757	24.17	7.91	24.00	Page 71

註：1. 繪圖資料請參考第 69-71 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3n20_ANT2

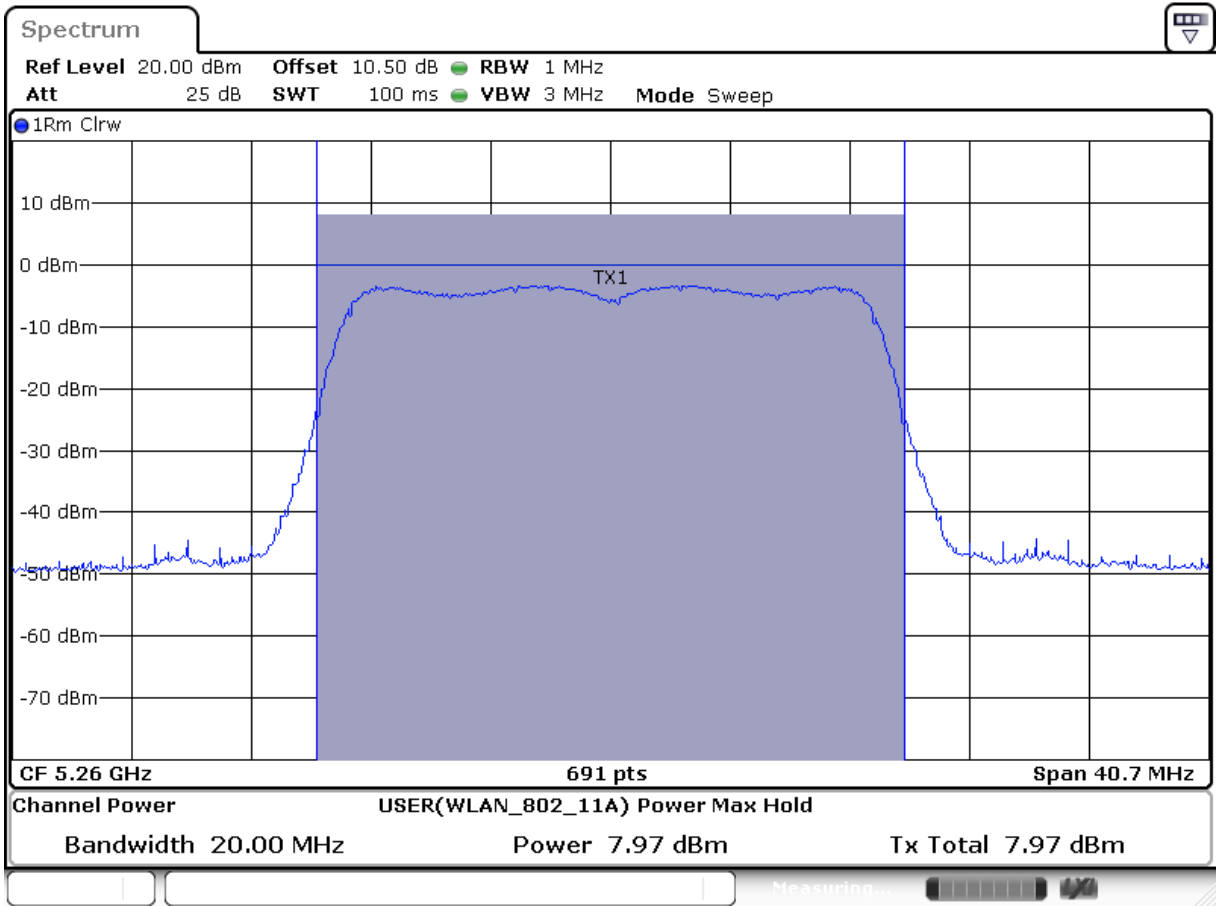
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11n20_Channel 52_Output power		

File: 20-10-MAS-019_5-3n20_ANT2

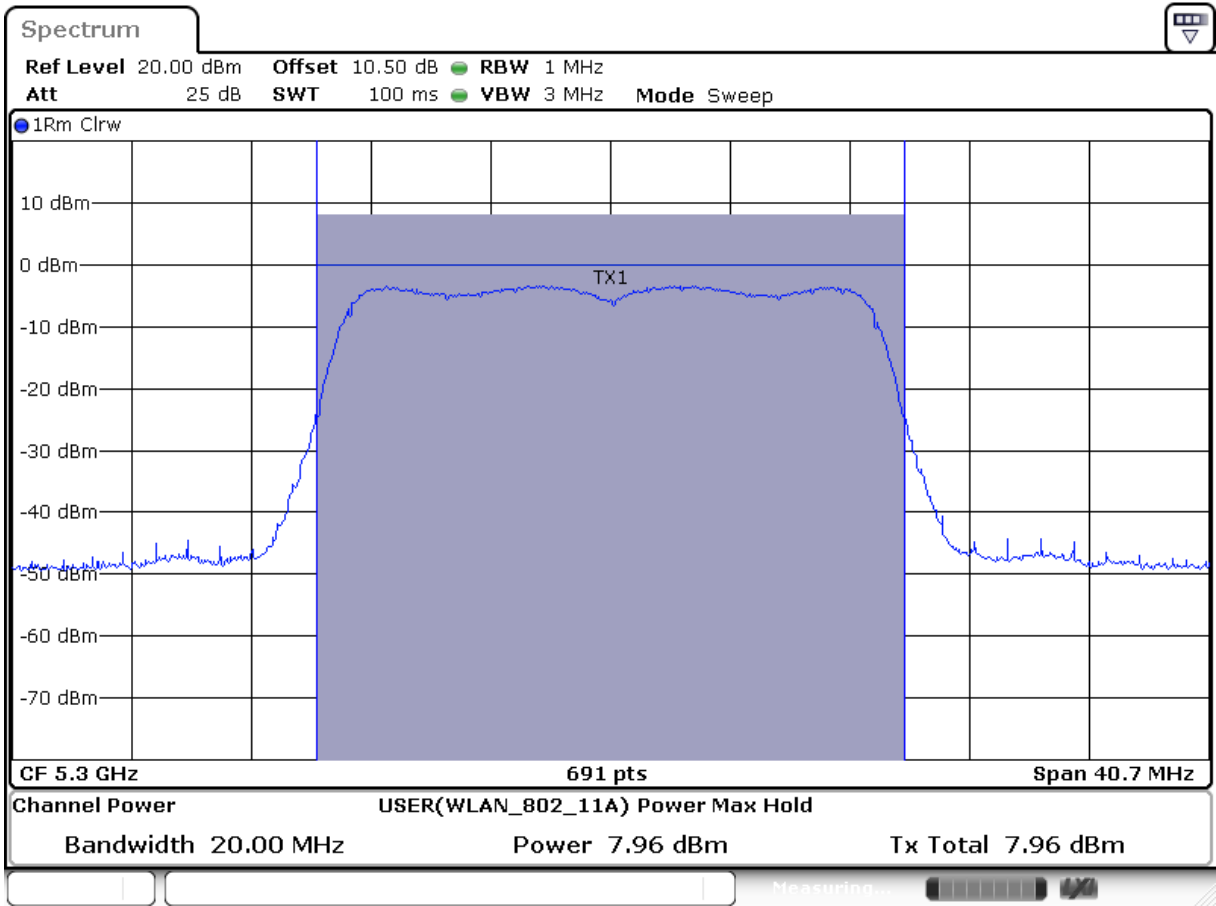
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11n20_Channel 60_Output power	

File: 20-10-MAS-019_5-3n20_ANT2

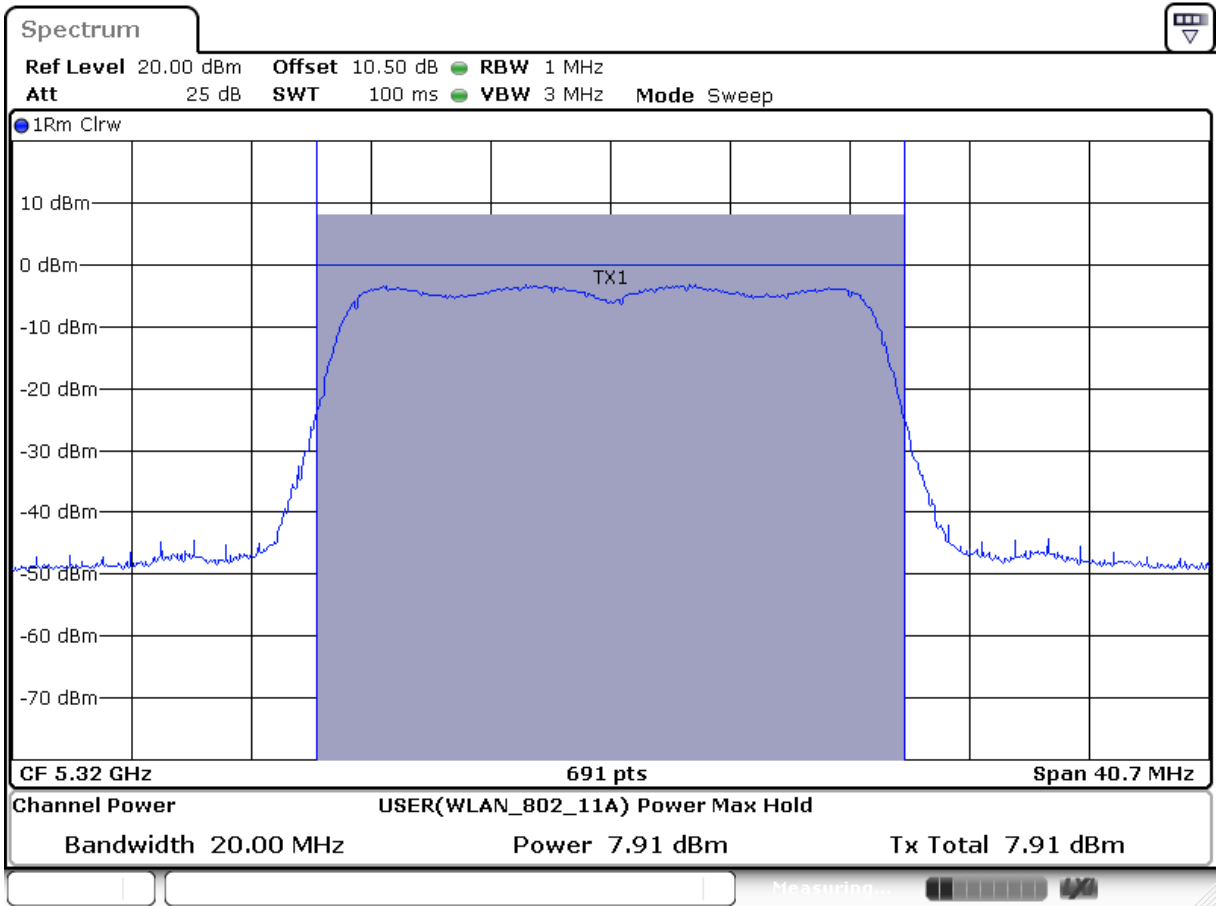
#14

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11n20_Channel 64_Output power		

7.4.2.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Channel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	8.70	7.97	11.36	23.36	-
M	8.64	7.96	11.32	23.36	-
H	8.57	7.91	11.26	23.36	-

- 註：1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
2. Fixed Limit = 250mW=24dBm
3. Caculated Limit = 11dBm + 10 log (26dB BW)
4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm
5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)
6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.3 調變技術:IEEE 802.11n HT40

7.4.3.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	41.3	27.16	8.72	24.00	Page 74
H	24	41.3	27.16	8.66	24.00	Page 75

註：1. 繪圖資料請參考第 74-75 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm

6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)

7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3n40_ANT1

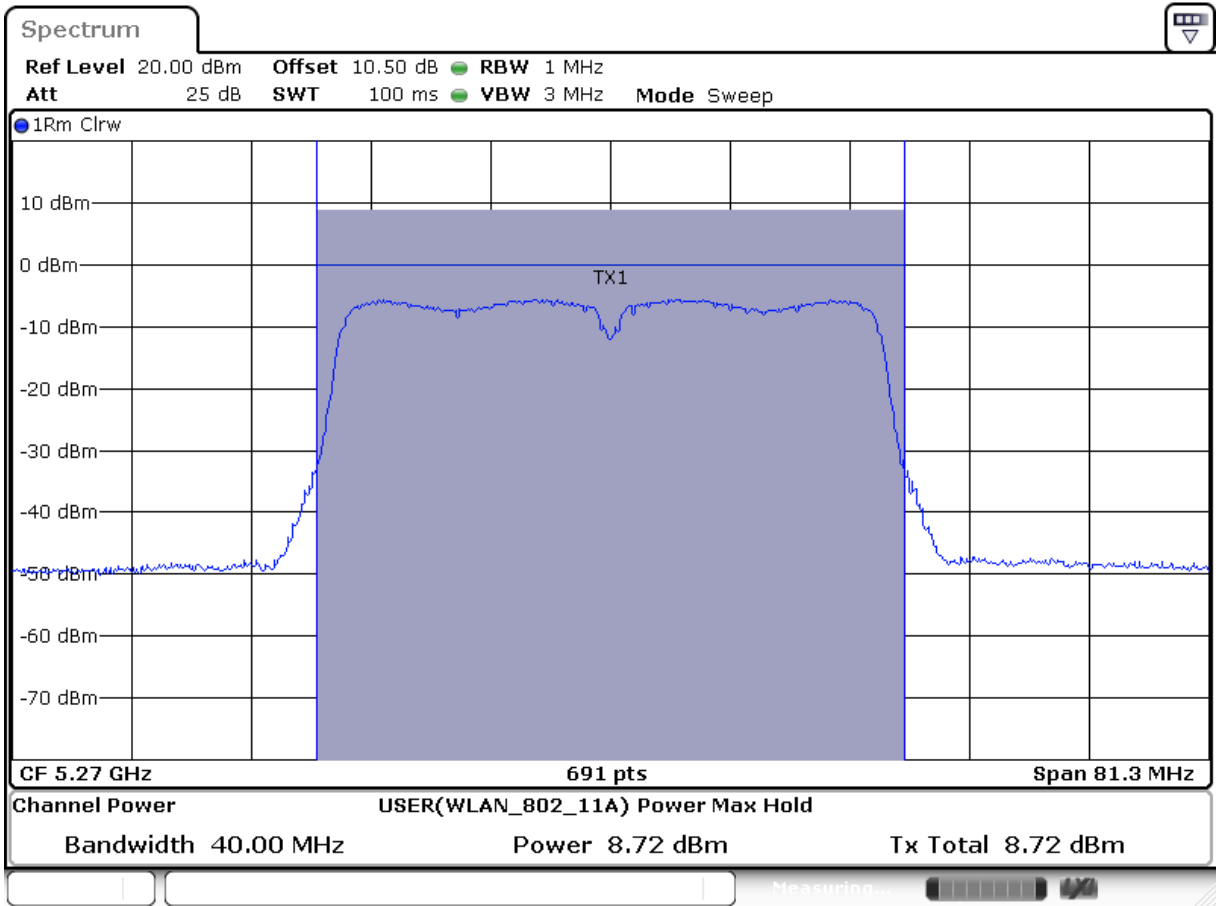
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11n40_Channel 54_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3n40_ANT1

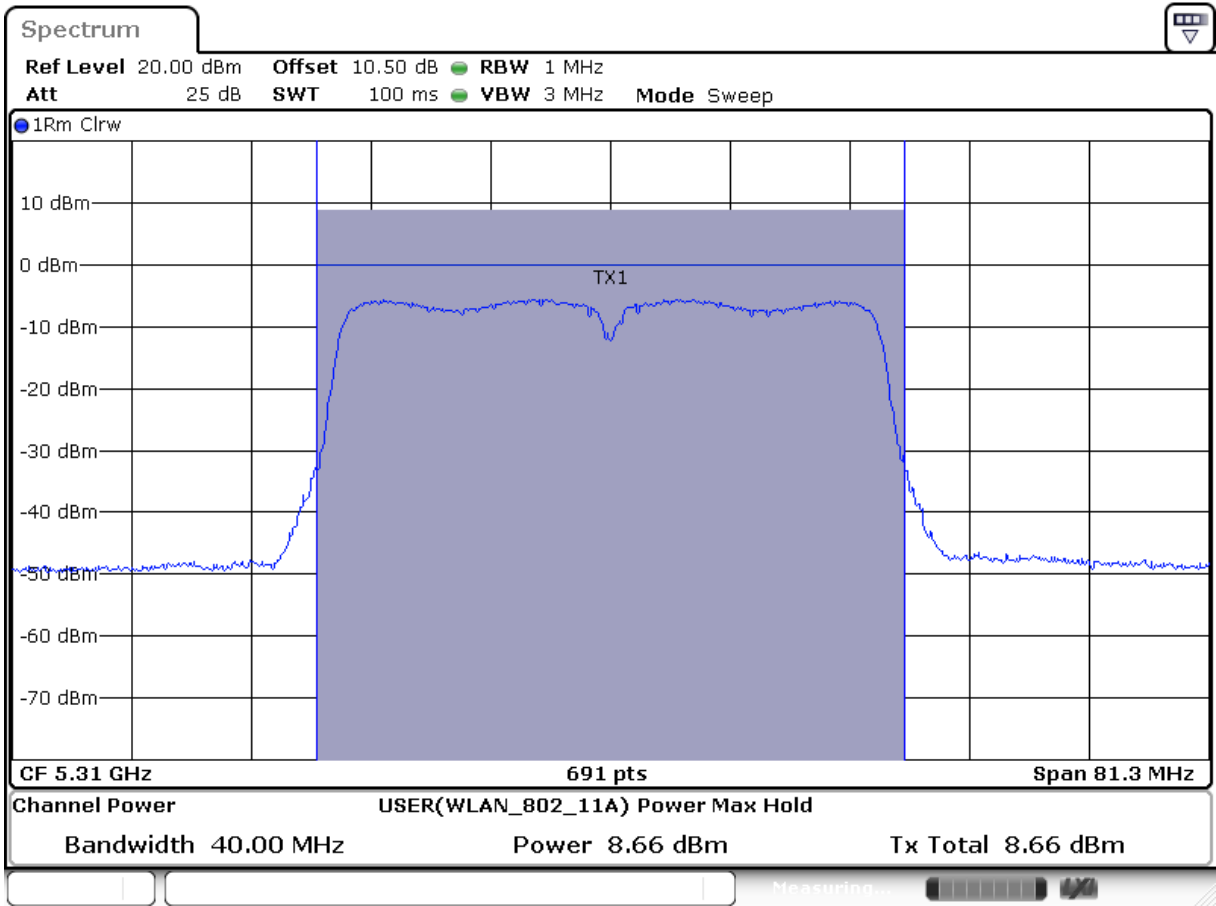
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11n40_Channel 62_Output power		

7.4.3.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	40.975	27.13	7.96	24.00	Page 77
H	24	41.138	27.14	7.90	24.00	Page 78

註：1. 繪圖資料請參考第 77-78 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3n40_ANT2

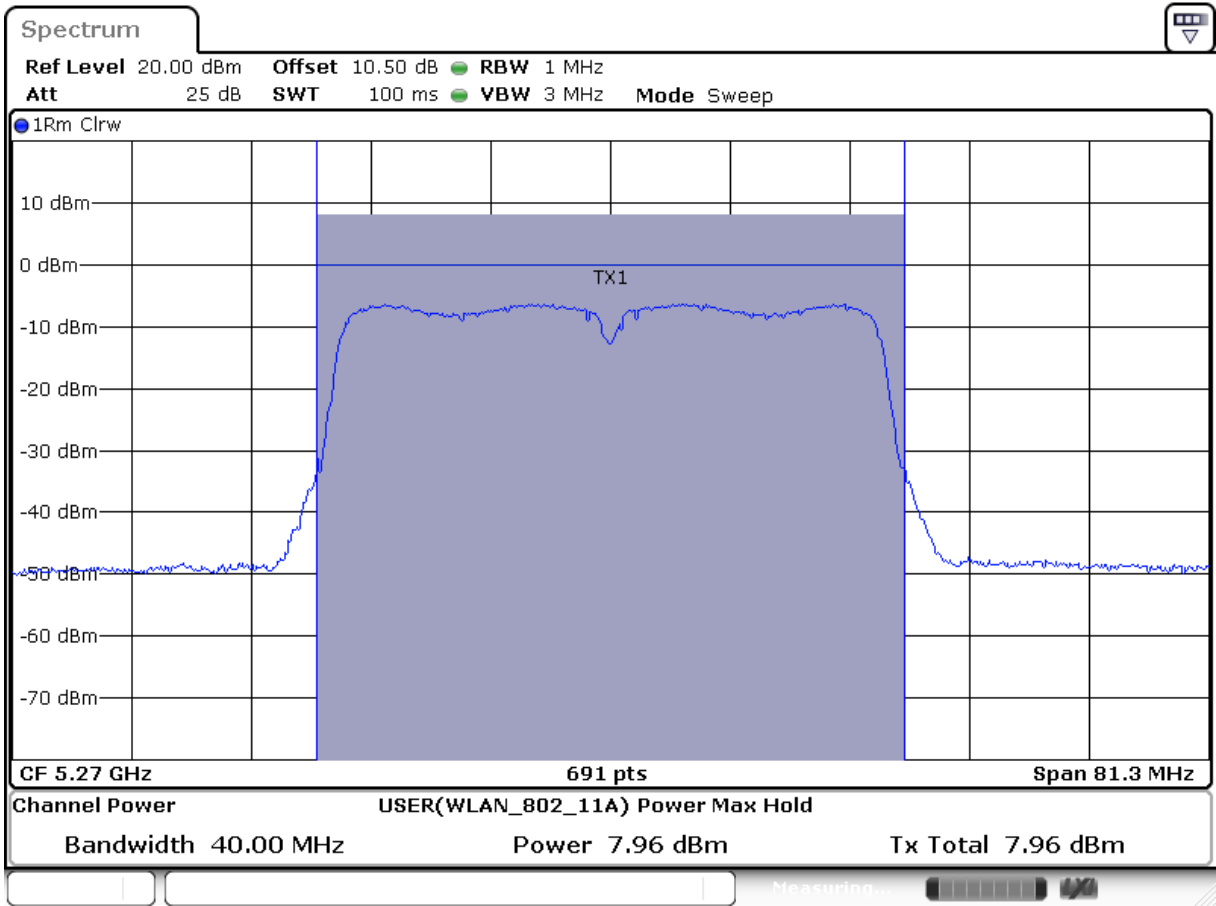
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11n40_Channel 54_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3n40_ANT2

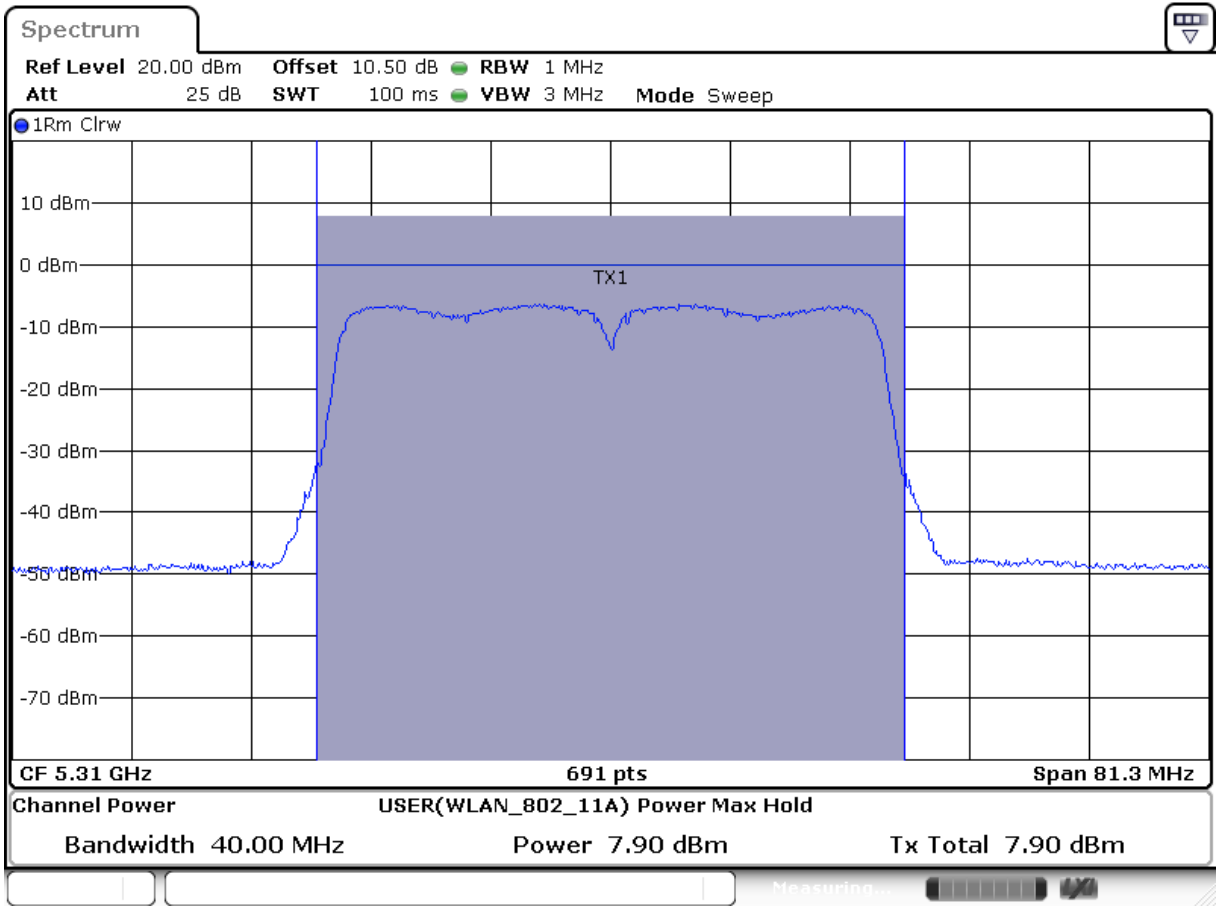
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11n40_Channel 62_Output power	

7.4.3.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Chnnel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	8.72	7.96	11.37	23.36	-
H	8.66	7.90	11.31	23.36	-

註：

1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
2. Fixed Limit = 250mW=24dBm
3. Caculated Limit = 11dBm + 10 log (26dB BW)
4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm
5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)
6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.4 調變技術: IEEE 802.11ac (20MHz)

7.4.4.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi , NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	21.083	24.24	8.66	24.00	Page 81
M	24	20.920	24.21	8.71	24.00	Page 82
H	24	21.001	24.22	8.62	24.00	Page 83

註：1. 繪圖資料請參考第 81-83 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ac20_ANT1

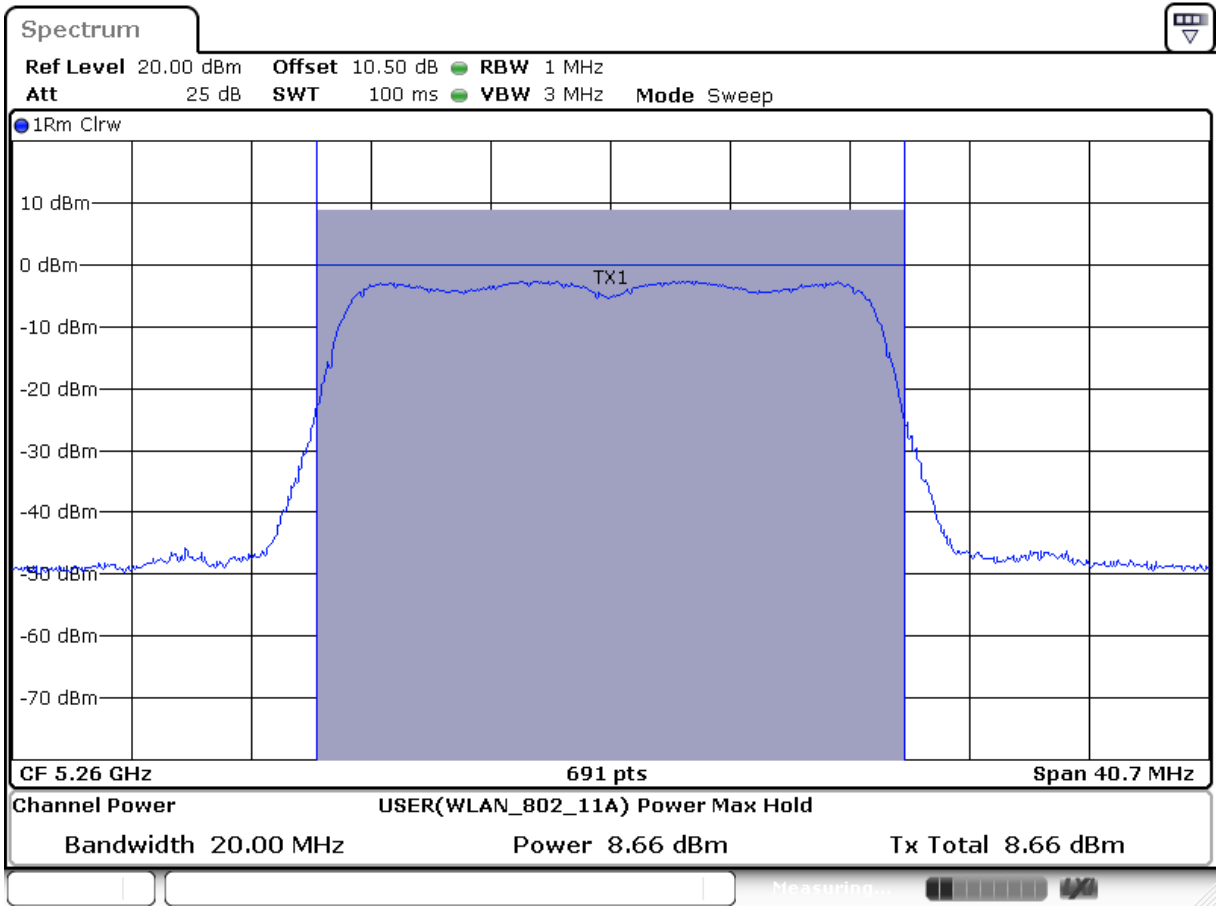
#21

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ac20_Channel 52_Output power	

File: 20-10-MAS-019_5-3ac20_ANT1

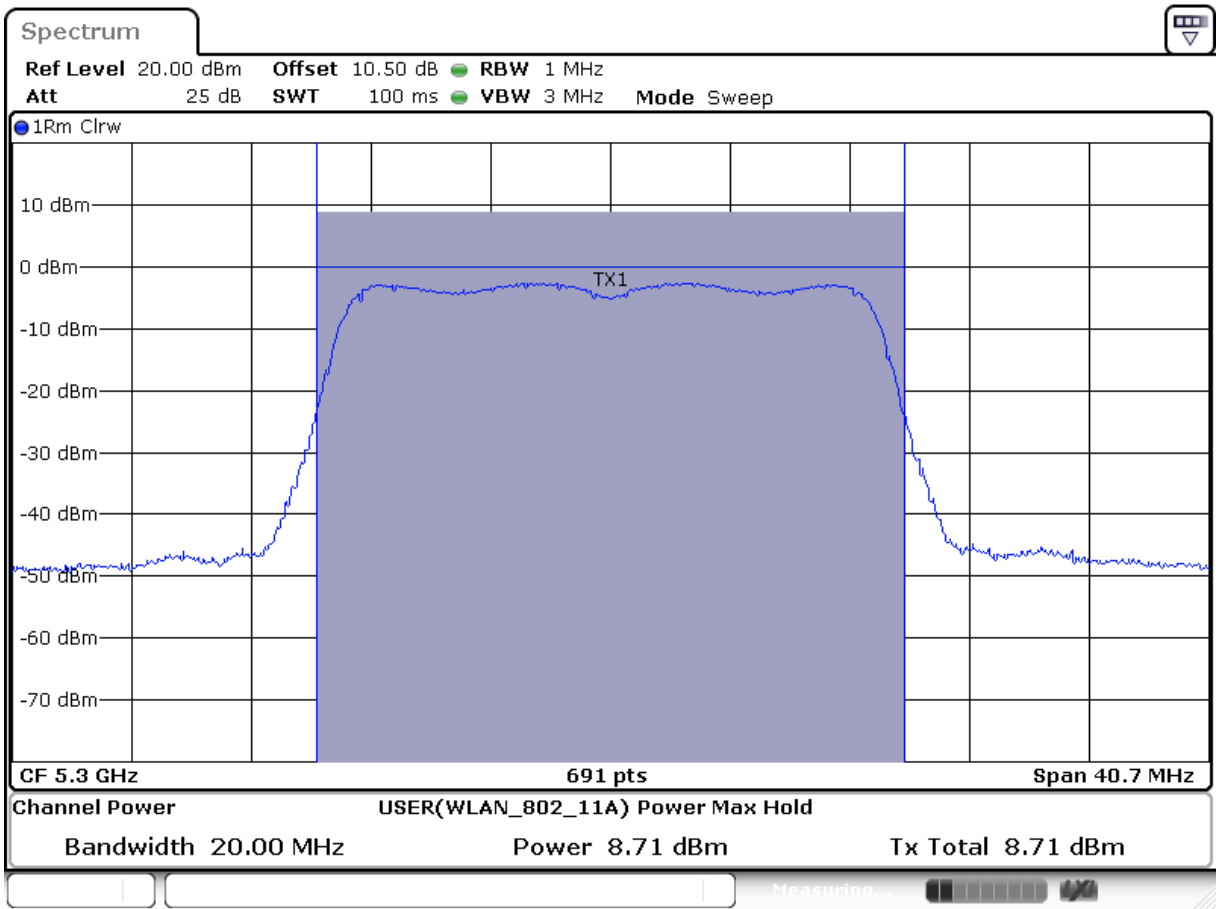
#24

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT:

Model:

Test Mode:

Note:

Development Kit for PlayStation5

DFI-D1000AA

UNII

NCC_LP0002_802.11ac20_Channel 60_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3ac20_ANT1

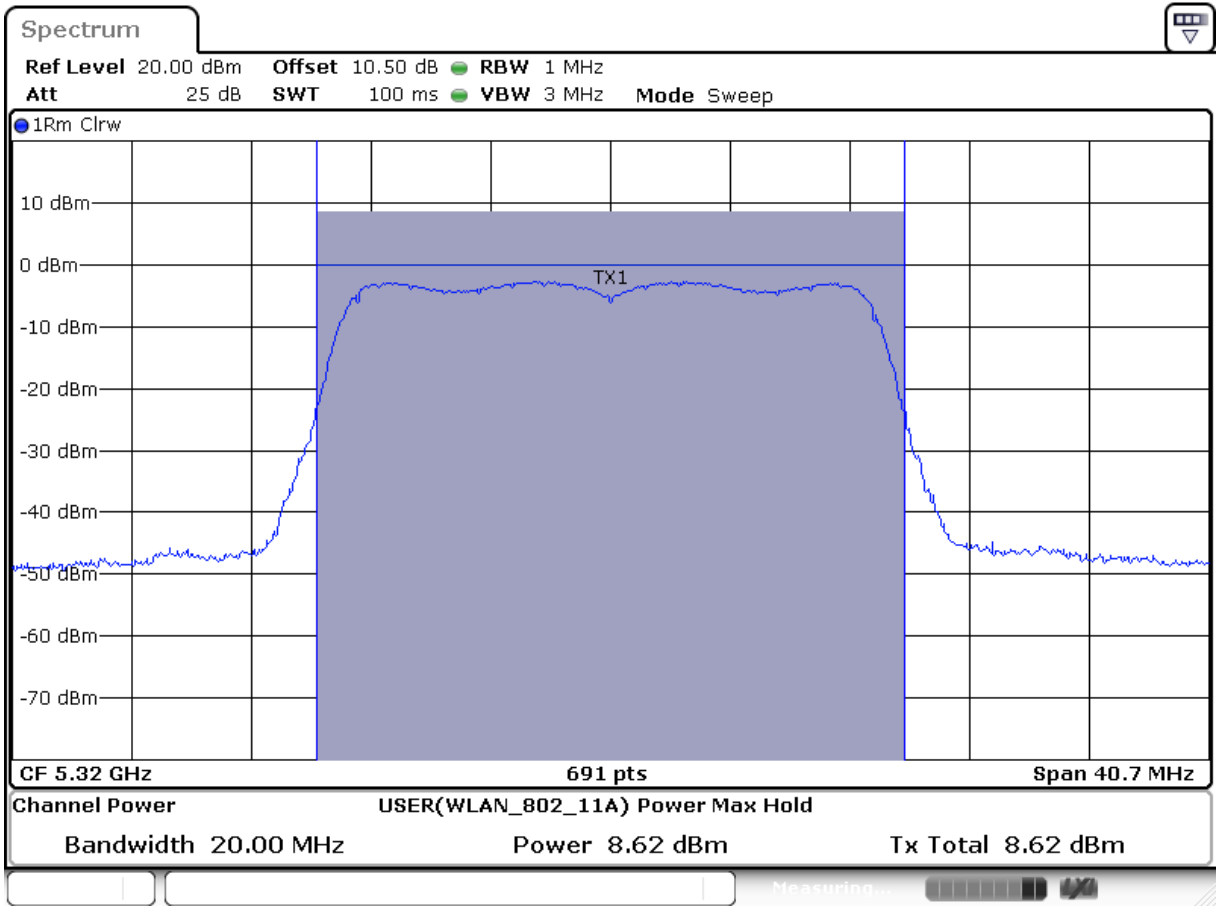
#27

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ac20_Channel 64_Output power	

7.4.4.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	20.920	24.21	8.00	24.00	Page 85
M	24	21.001	24.22	7.97	24.00	Page 86
H	24	20.757	24.17	7.90	24.00	Page 87

註：1. 繪圖資料請參考第 85-87 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ac20_ANT2

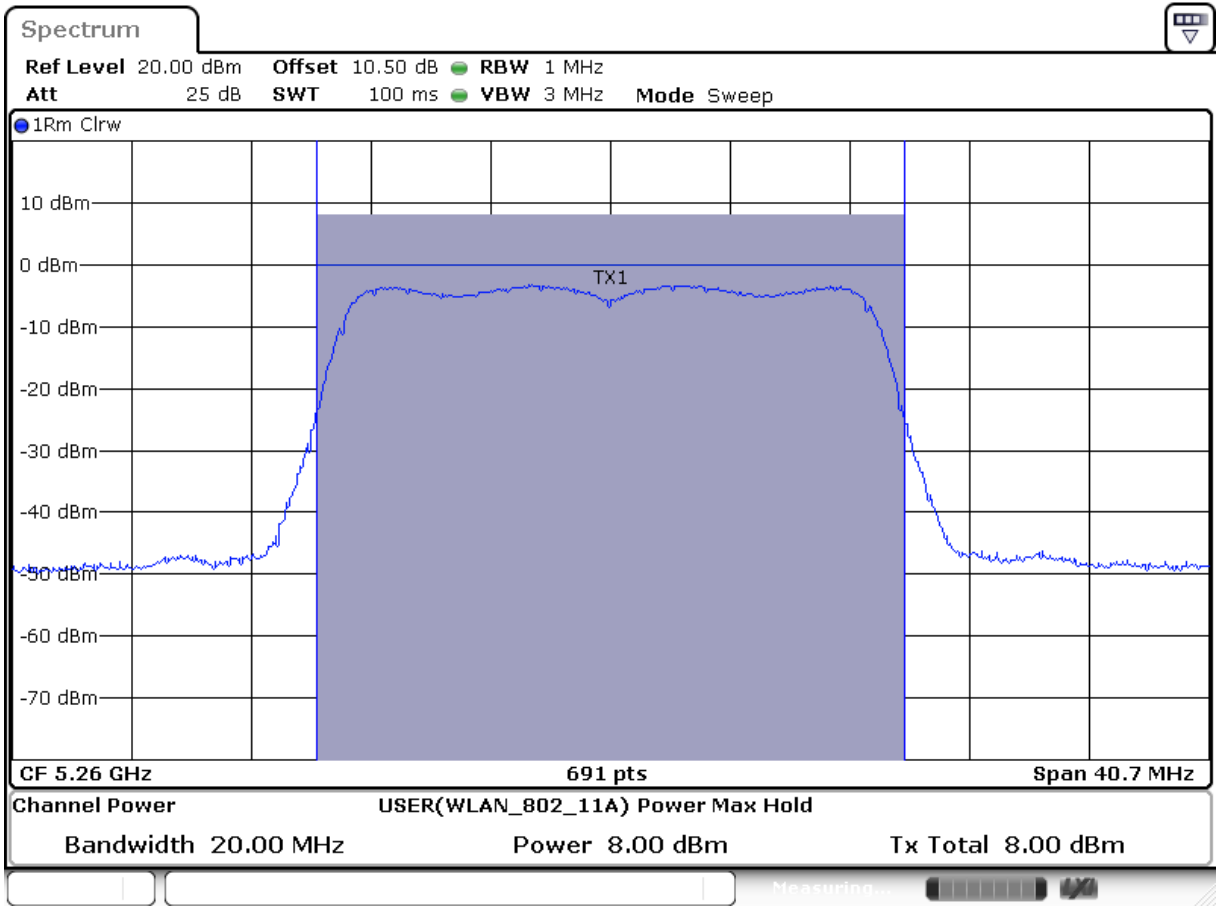
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ac20_Channel 52_Output power	

File: 20-10-MAS-019_5-3ac20_ANT2

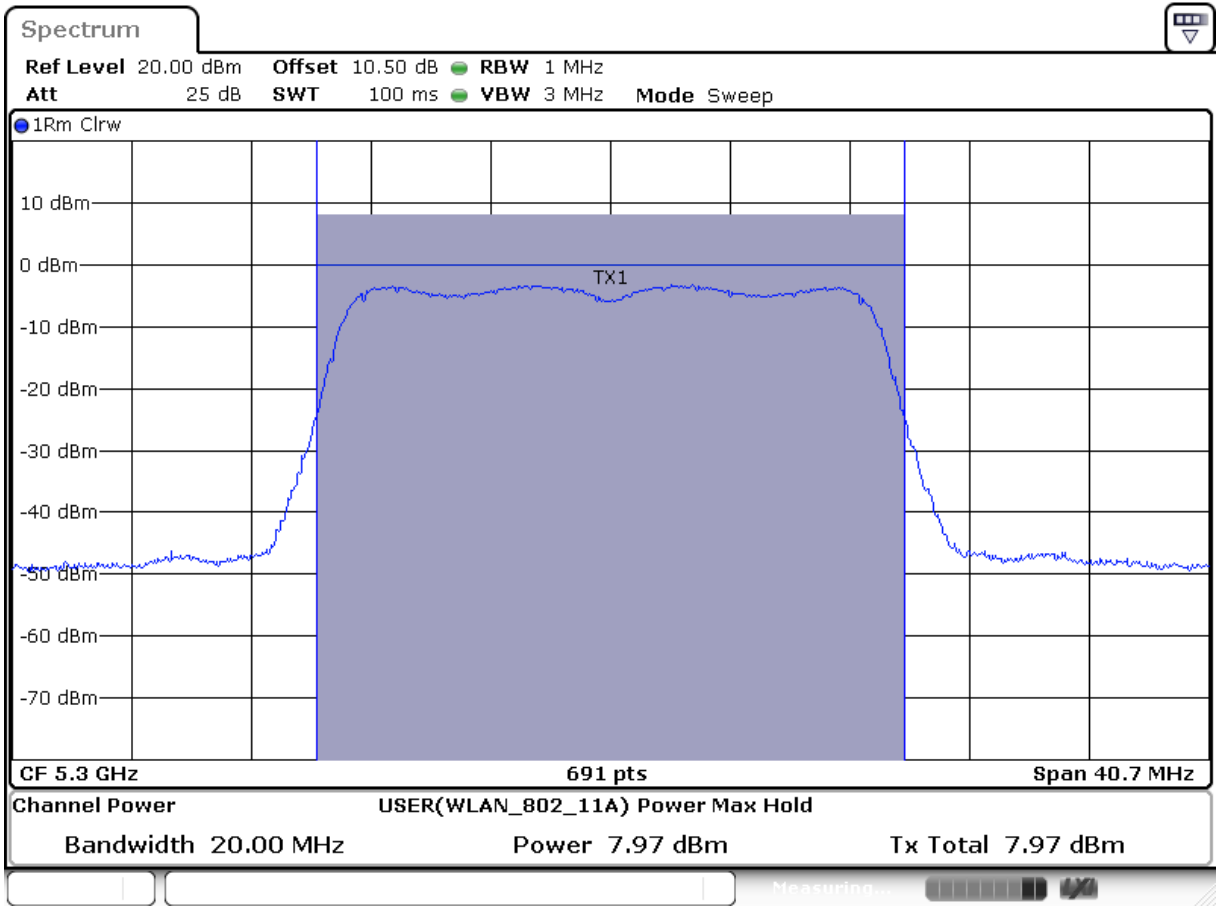
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ac20_Channel 60_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3ac20_ANT2

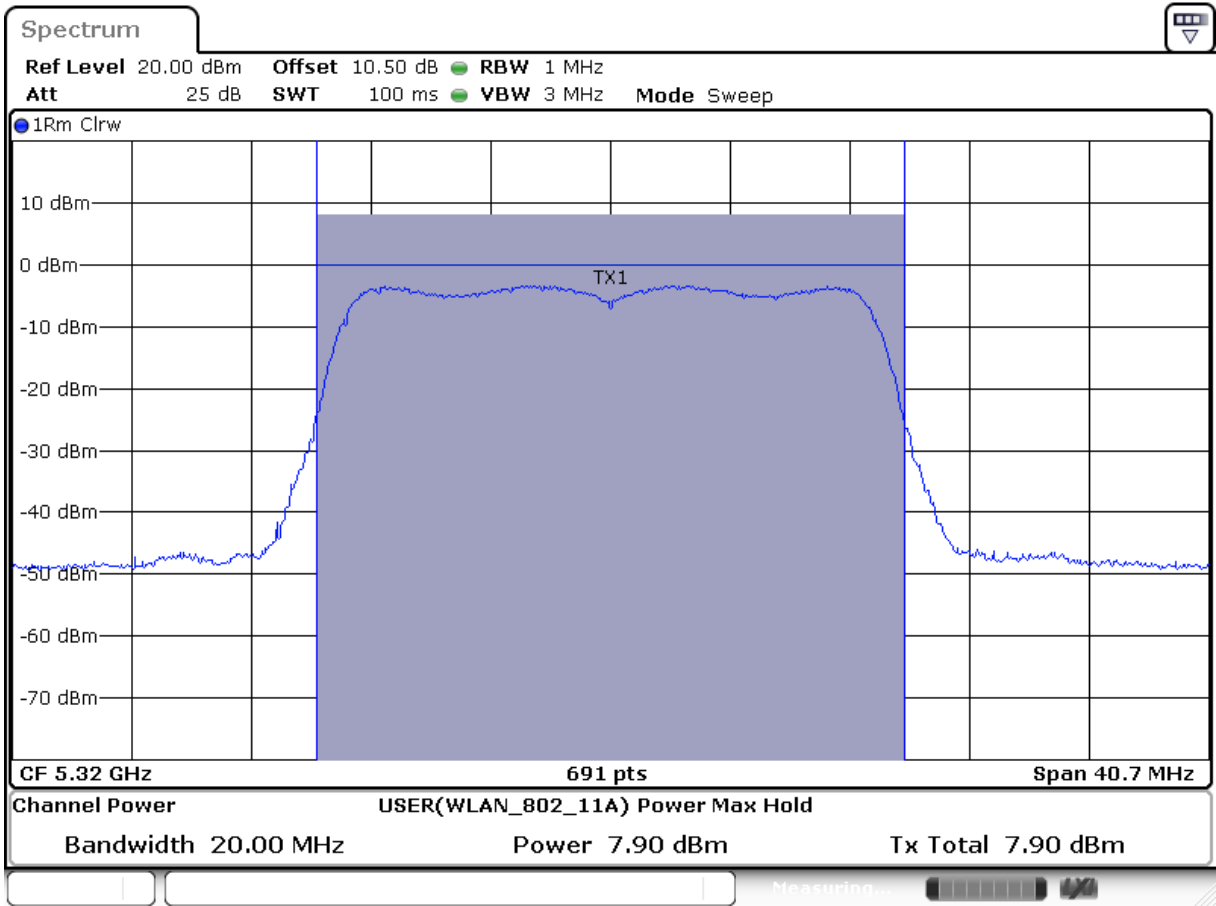
#14

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ac20_Channel 64_Output power	

7.4.4.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Chnnel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	8.66	8.00	11.35	23.36	-
M	8.71	7.97	11.37	23.36	-
H	8.62	7.90	11.29	23.36	-

- 註：1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
2. Fixed Limit = 250mW=24dBm
3. Caculated Limit = 11dBm + 10 log (26dB BW)
4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm
5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)
6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.5 調變技術: IEEE 802.11ac (40MHz)

7.4.5.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	41.3	27.16	8.75	24.00	Page 90
H	24	41.3	27.16	8.67	24.00	Page 91

註：1. 繪圖資料請參考第 90-91 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ac40_ANT1

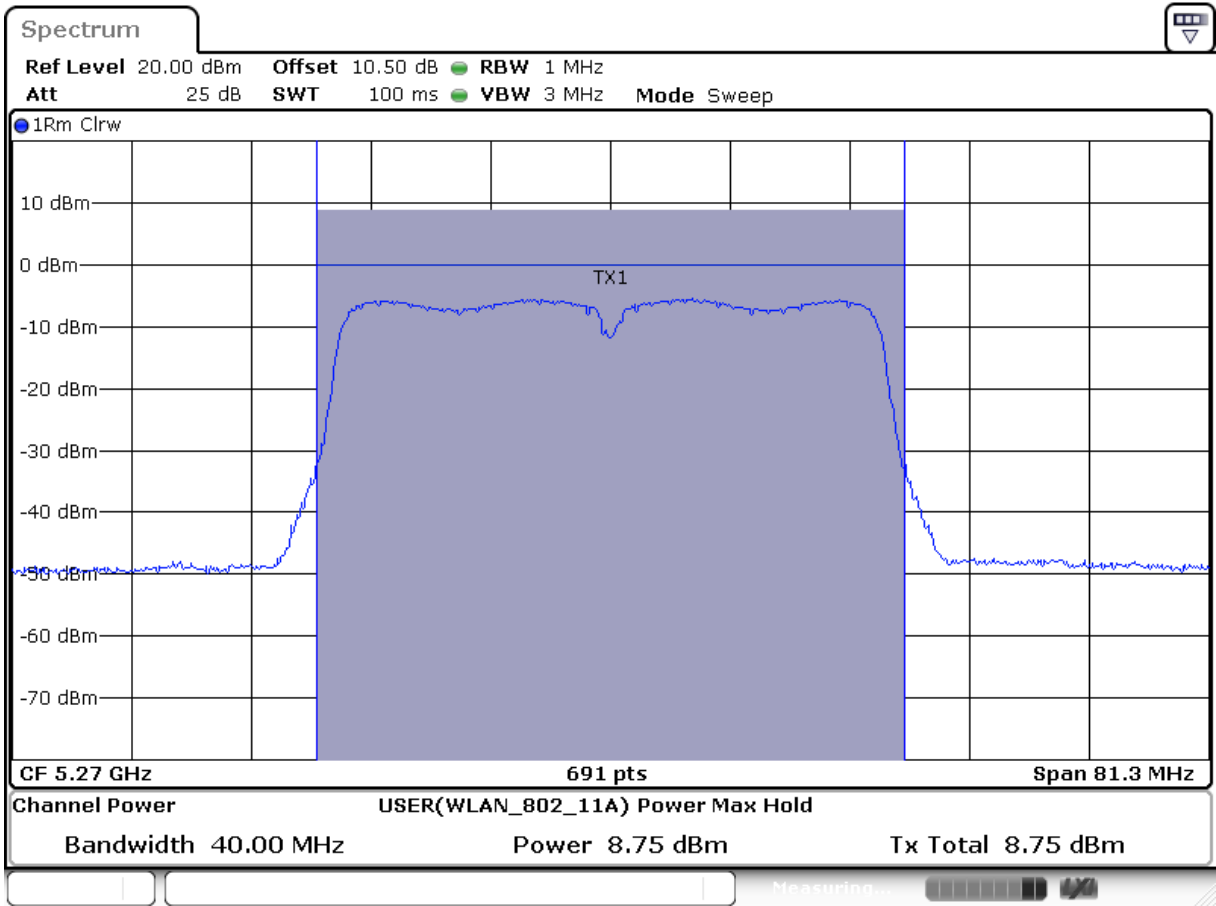
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ac40_Channel 54_Output power		

File: 20-10-MAS-019_5-3ac40_ANT1

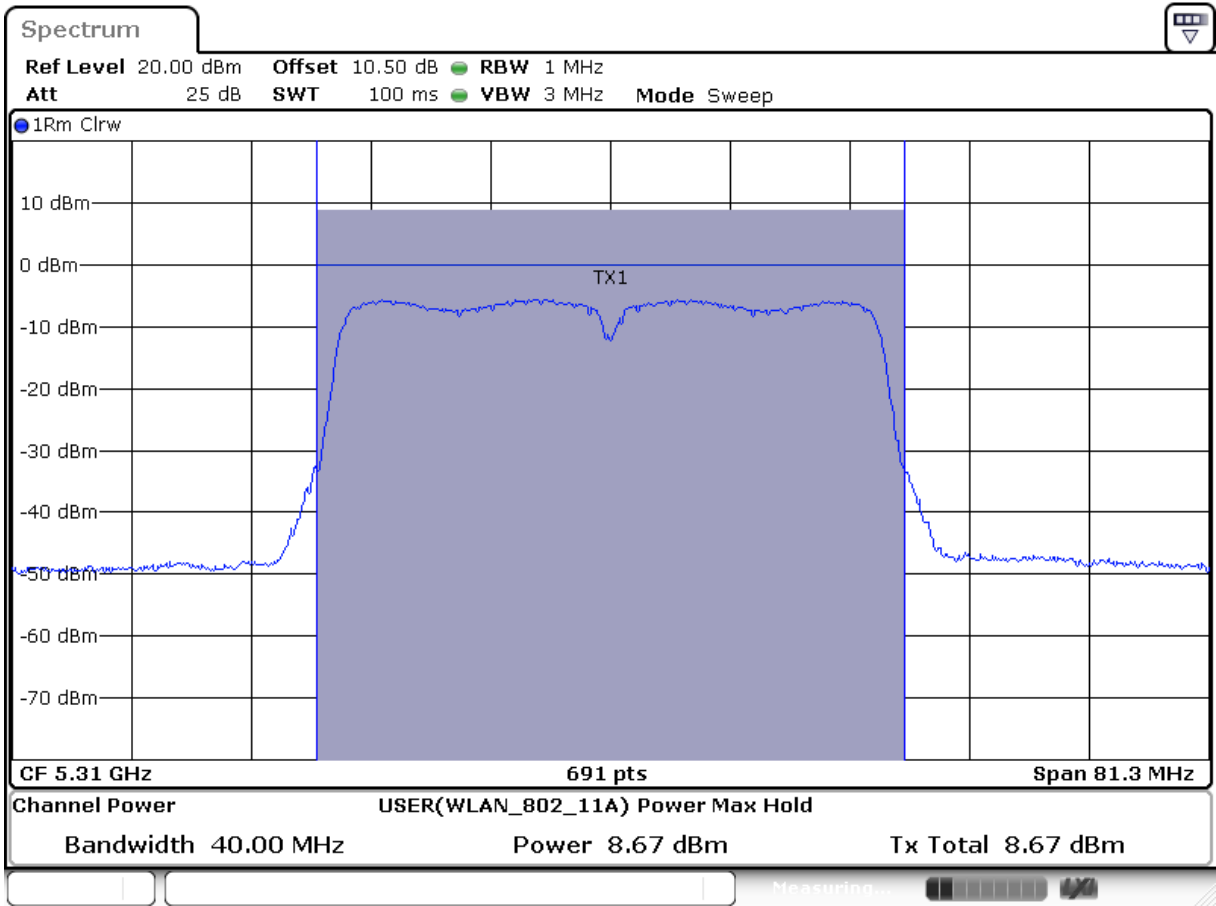
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ac40_Channel 62_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.5.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	40.975	27.13	7.96	24.00	Page 93
H	24	41.138	27.14	7.93	24.00	Page 94

註：1. 繪圖資料請參考第 93-94 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ac40_ANT2

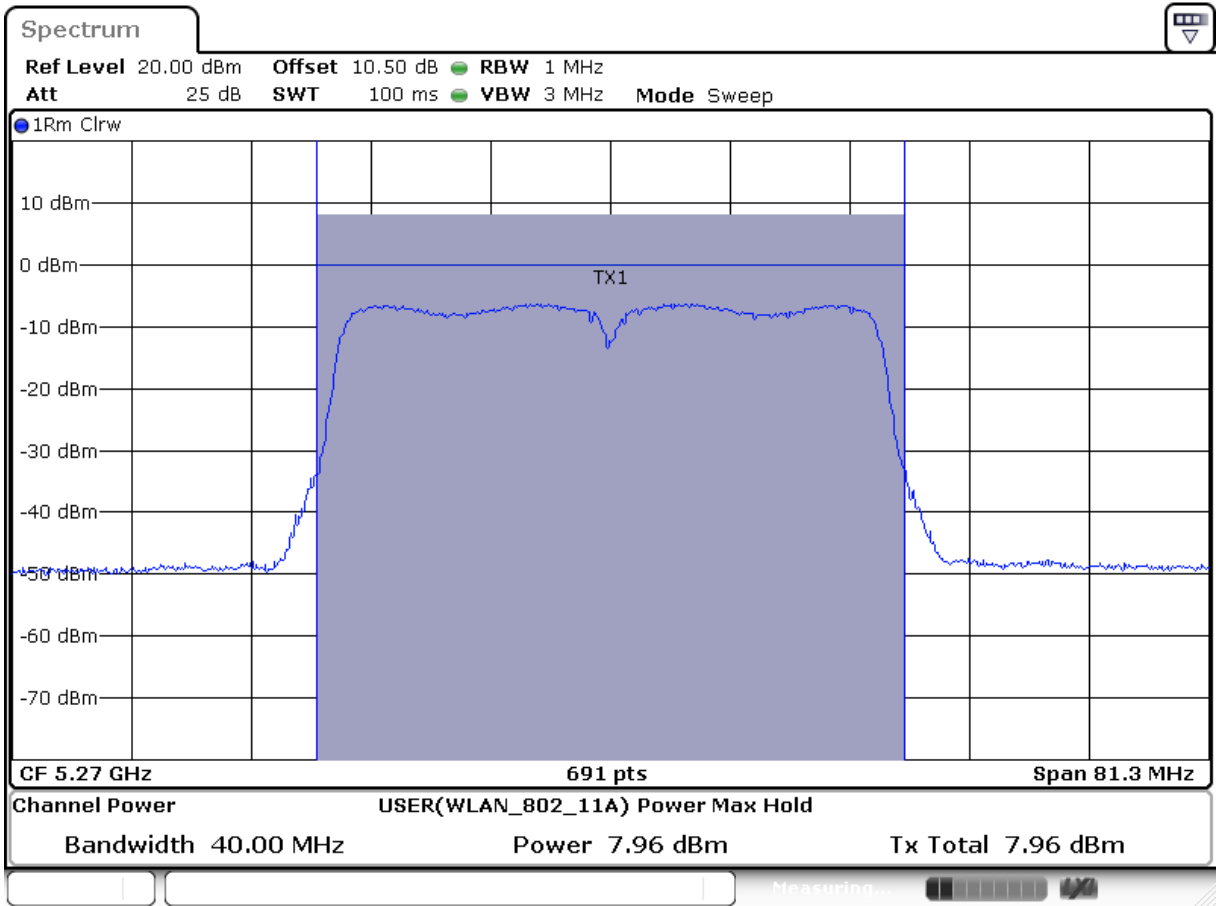
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ac40_Channel 54_Output power		

File: 20-10-MAS-019_5-3ac40_ANT2

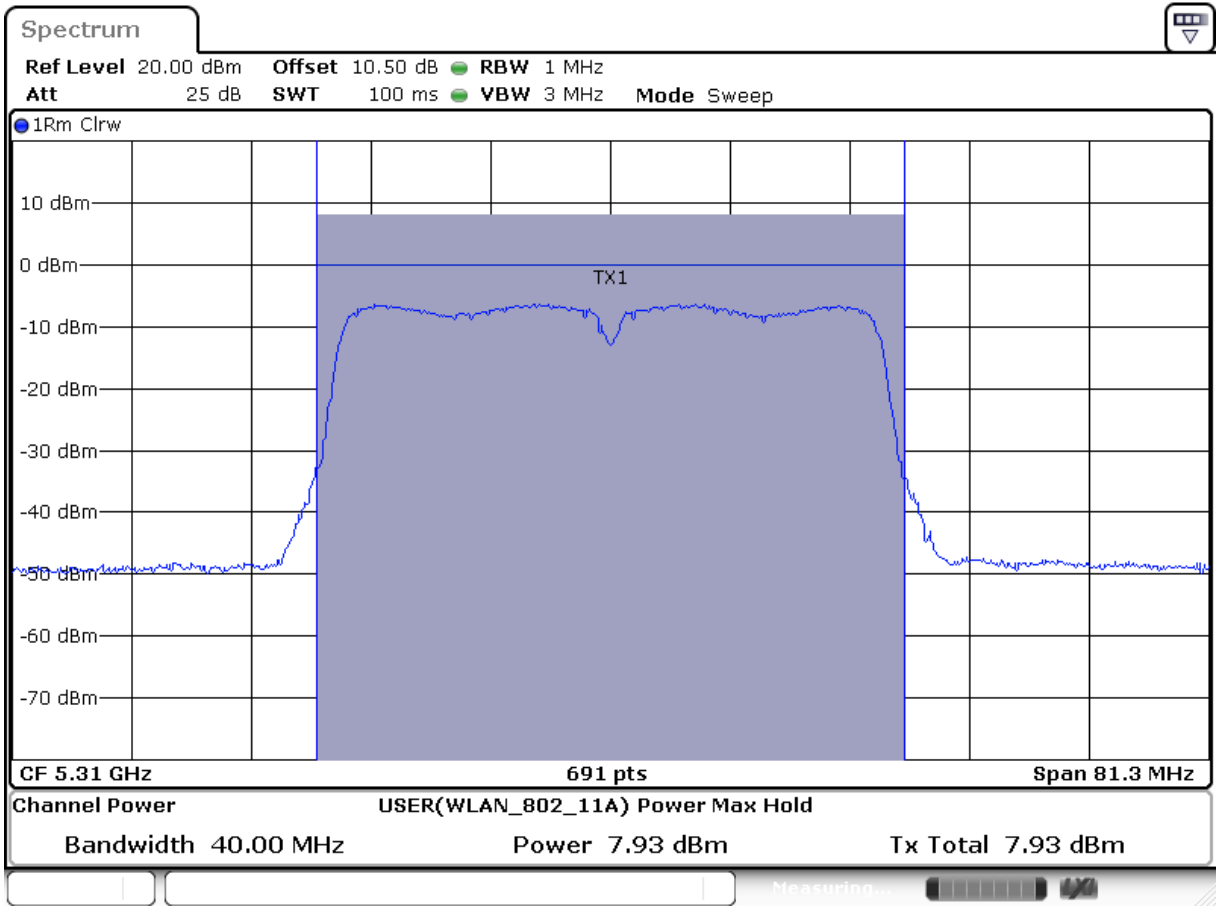
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT:

Model:

Test Mode:

Note:

Development Kit for PlayStation5

DFI-D1000AA

UNII

NCC_LP0002_802.11ac40_Channel 62_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.5.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Chnnel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	8.75	7.96	11.38	23.36	-
H	8.67	7.93	11.33	23.36	-

- 註: 1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
 2. Fixed Limit = 250mW=24dBm
 3. Caculated Limit = 11dBm + 10 log (26dB BW)
 4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm
 5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)
 6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.6 調變技術: IEEE 802.11ac (80MHz)

7.4.6.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi , NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	81.5	30.11	8.83	24.00	Page 97

註：1. 繪圖資料請參考第 97 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ac80_ANT1

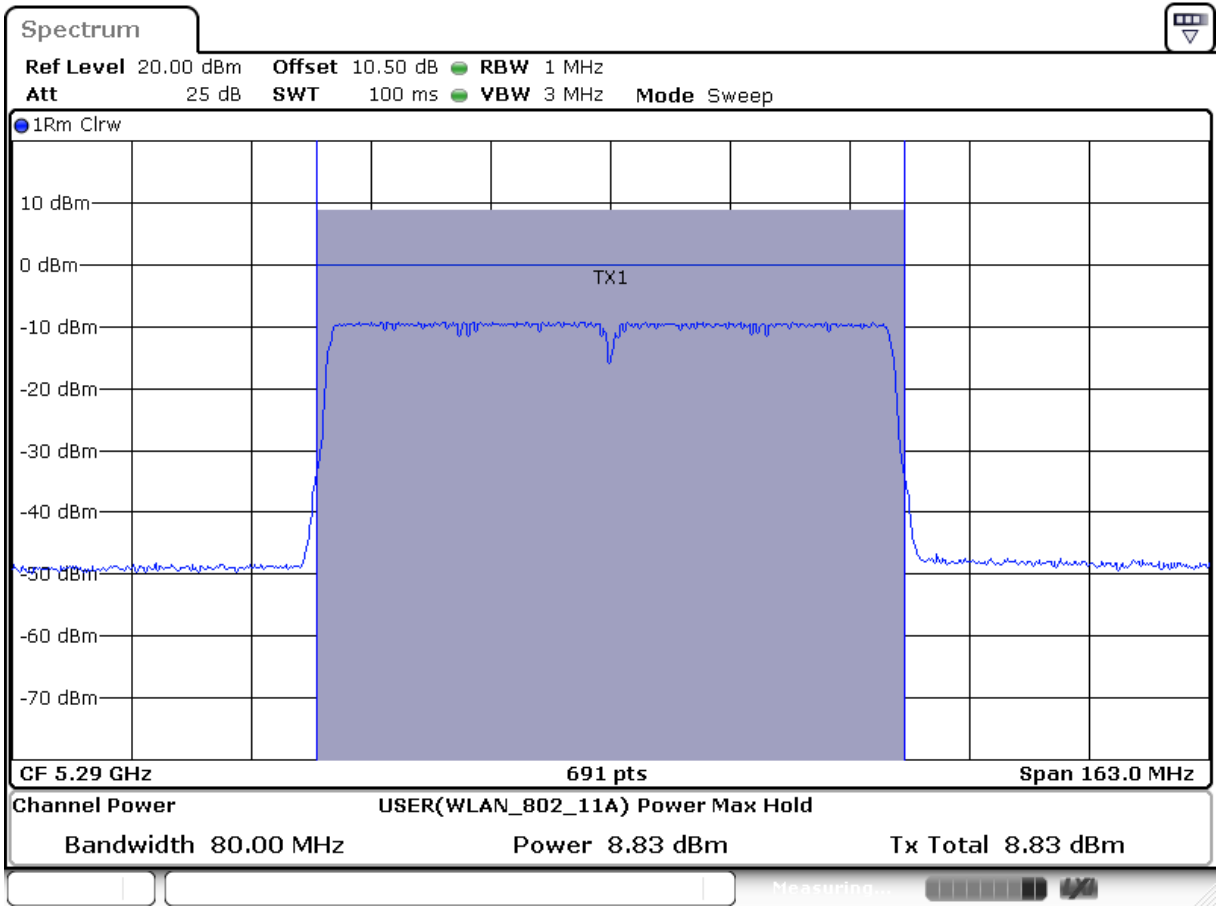
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ac40_Channel 58_Output power		

7.4.6.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	81.826	30.13	8.07	24.00	Page 99

註：1. 繪圖資料請參考第 99 頁。

2. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ac80_ANT2

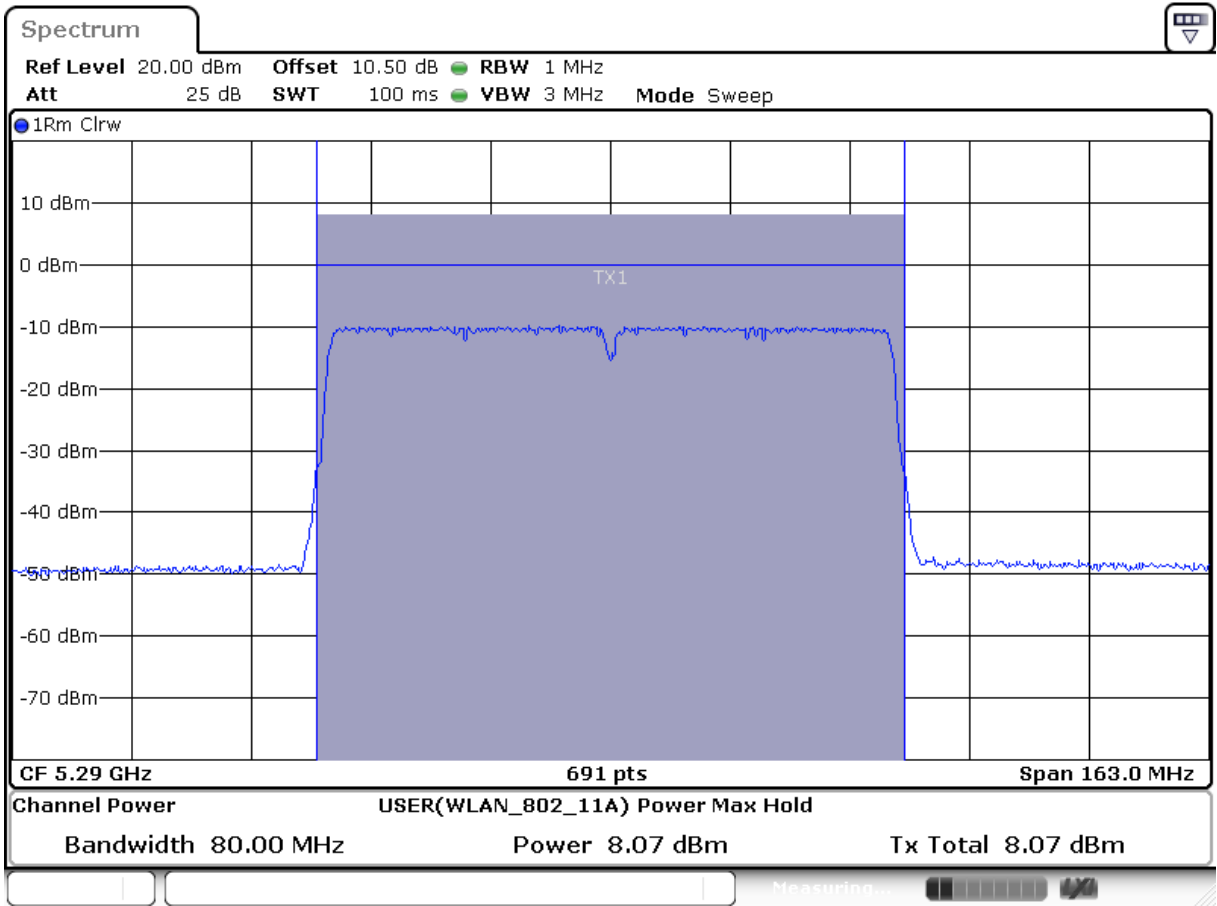
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ac40_Channel 58_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.6.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Chnnel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	8.83	8.07	11.48	23.36	-

- 註：1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
2. Fixed Limit = 250mW=24dBm
3. Caculated Limit = 11dBm + 10 log (26dB BW)
4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm
5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)
7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.7 調變技術:IEEE 802.11ax (20MHz)

7.4.7.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	21.083	24.24	8.95	24	Page 102
M	24	20.920	24.21	8.95	24	Page 103
H	24	21.001	24.22	8.88	24	Page 104

註：1. 繪圖資料請參考第 102-104 頁。

2. 最大傳導輸出功率(Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax20_ANT1

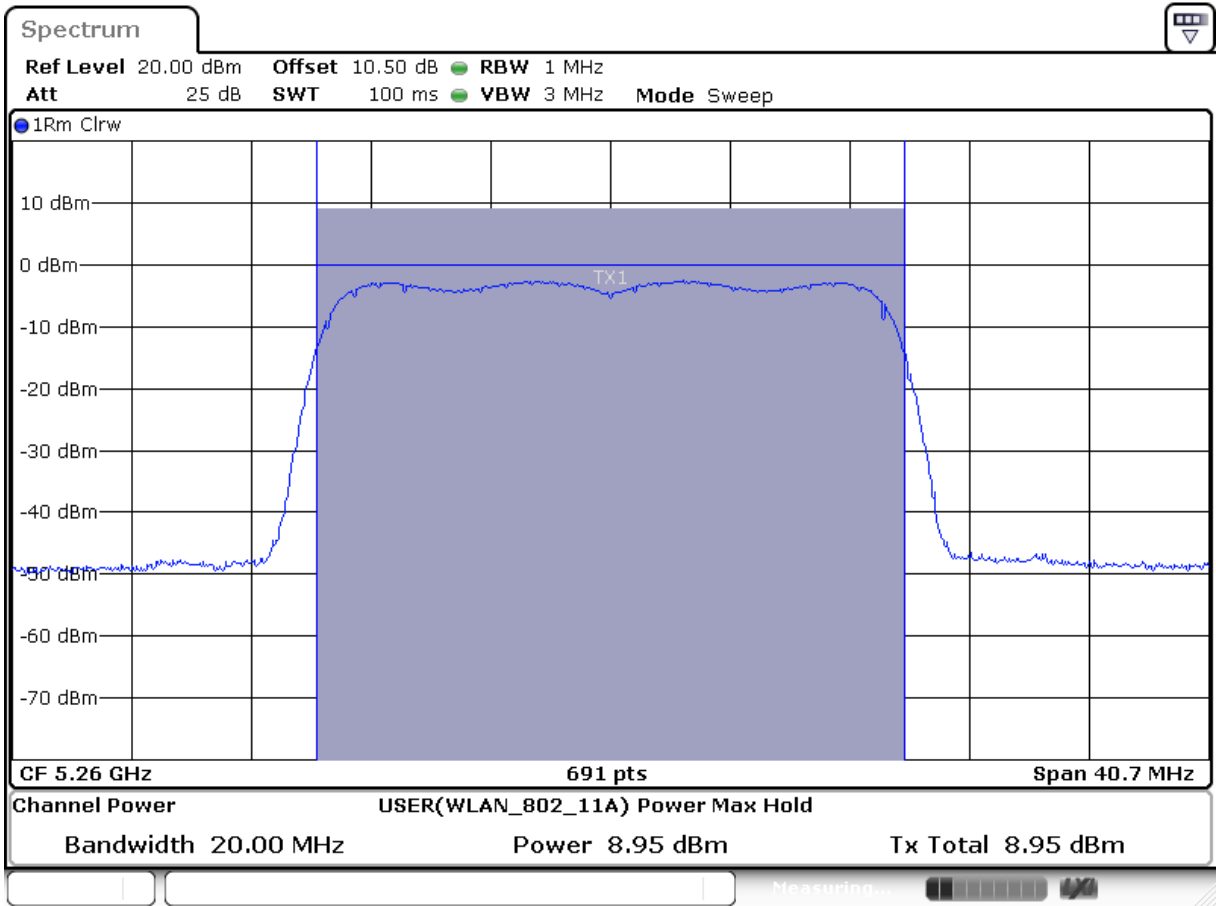
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 52_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3ax20_ANT1

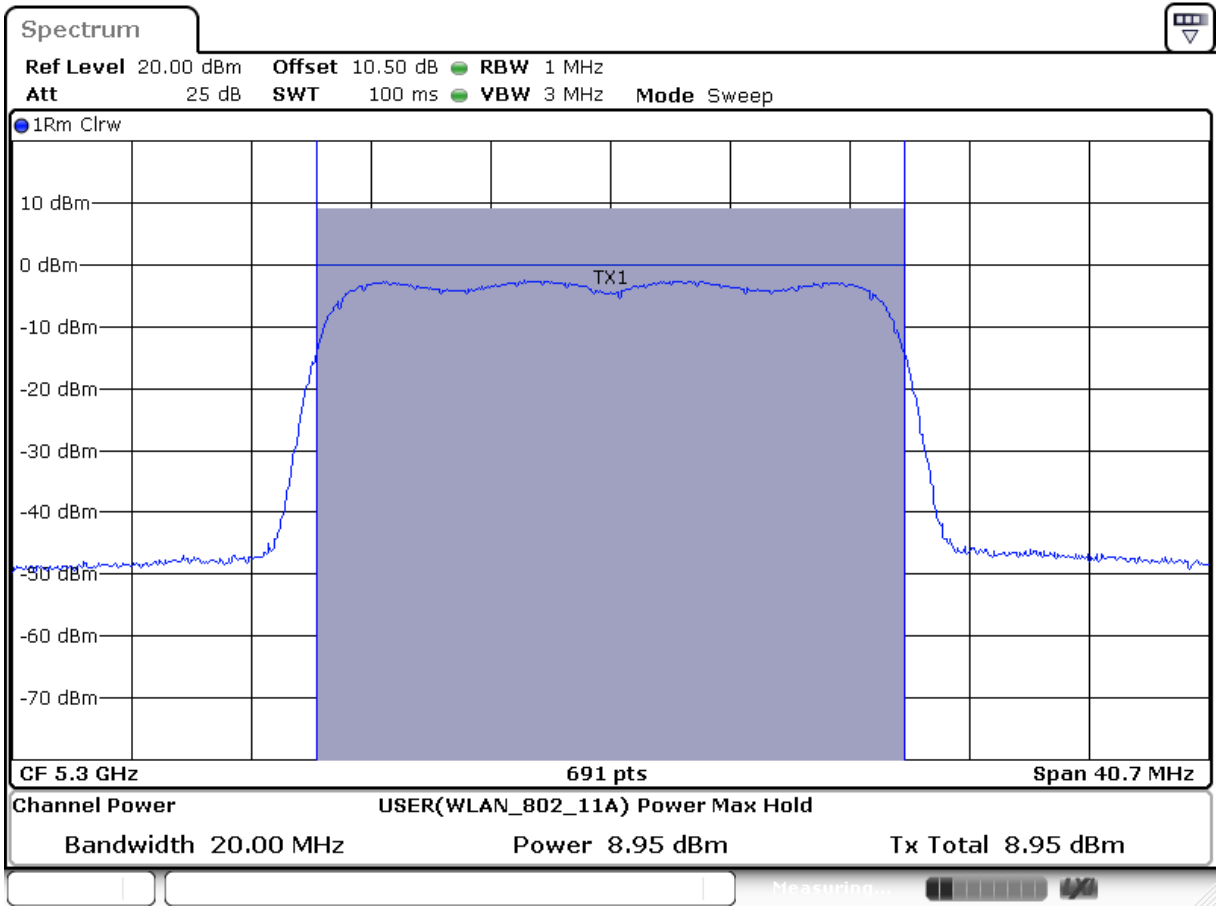
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 60_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3ax20_ANT1

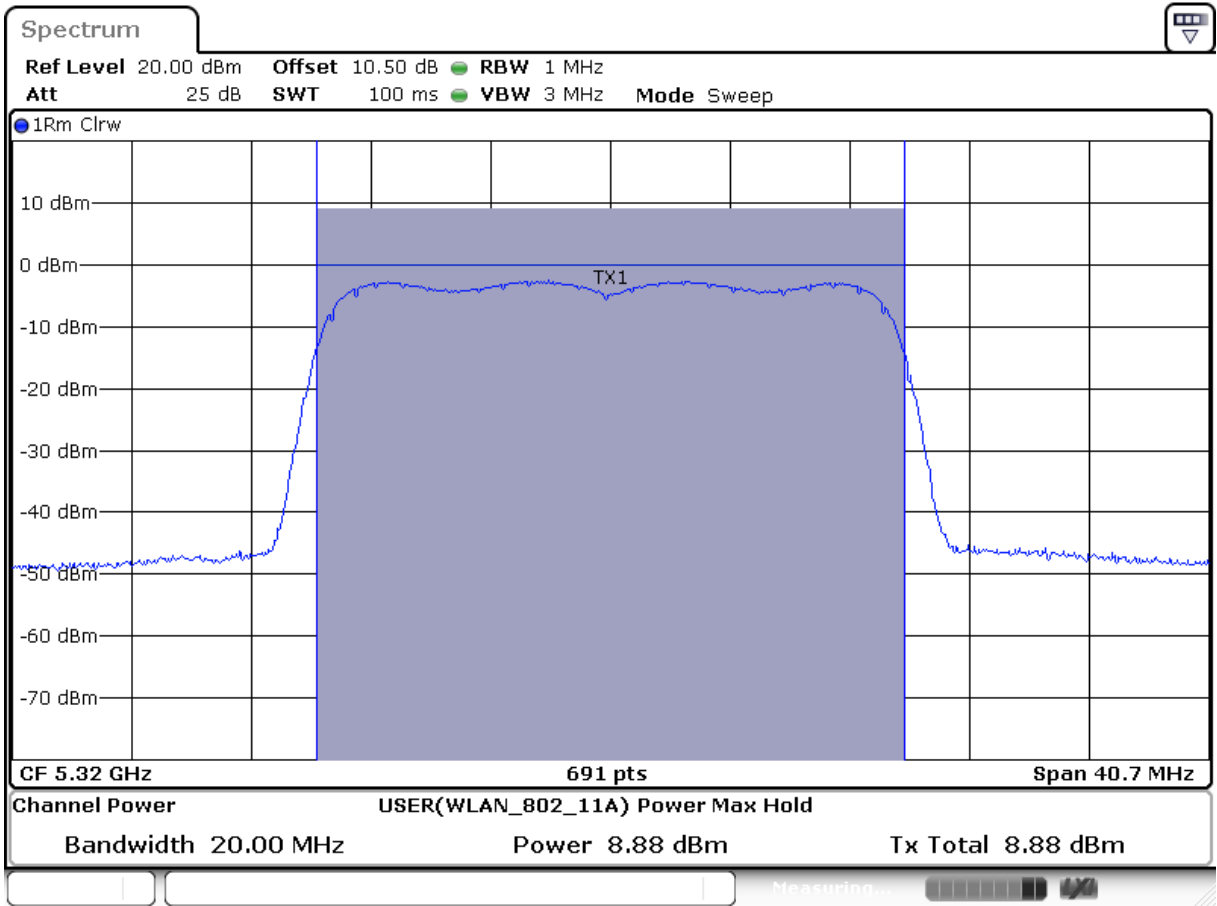
#14

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ax20_Channel 64_Output power	

7.4.7.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	20.920	24.21	8.21	24	Page 106
M	24	21.001	24.22	8.20	24	Page 107
H	24	20.757	24.17	8.13	24	Page 108

註：1. 繪圖資料請參考第 106-108 頁。

2. 最大傳導輸出功率(Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax20_ANT2

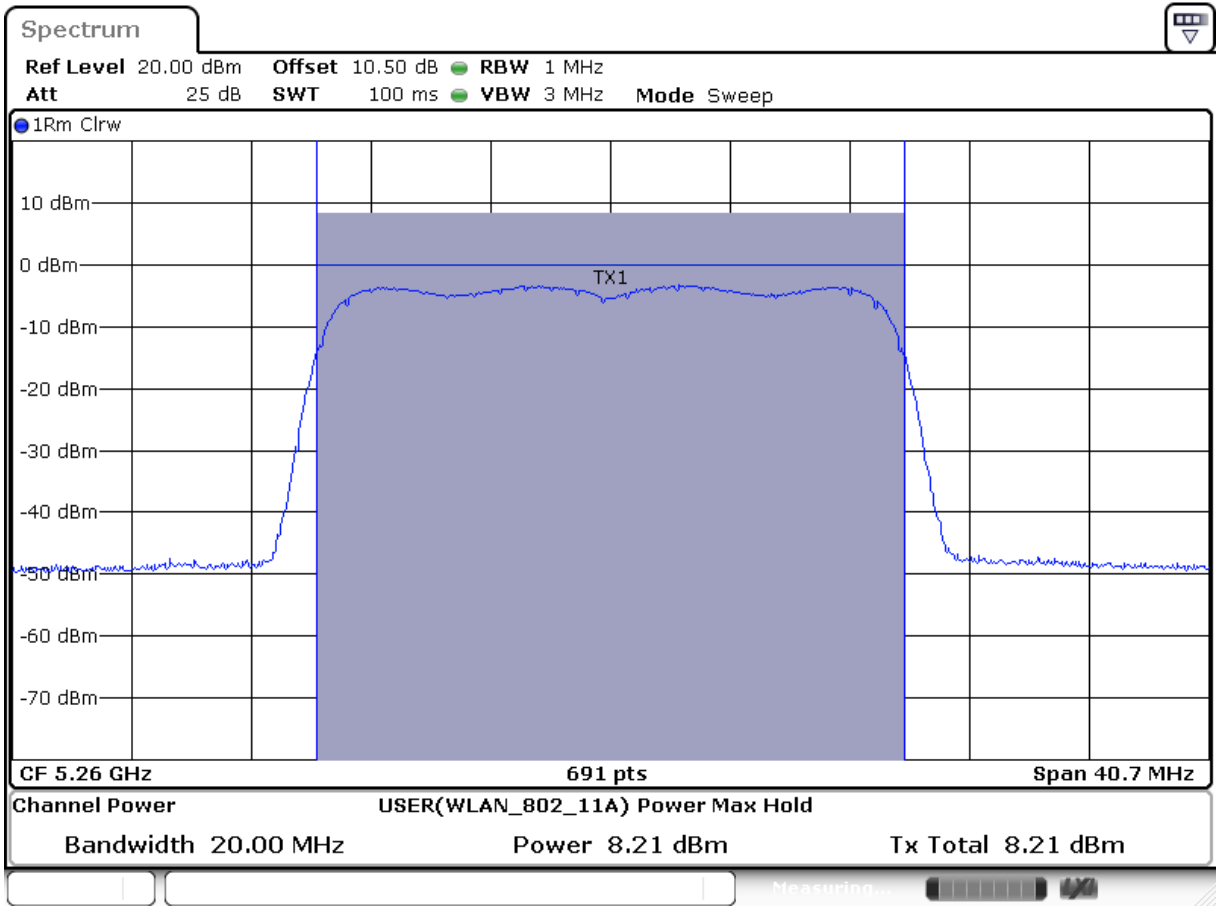
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 52_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3ax20_ANT2

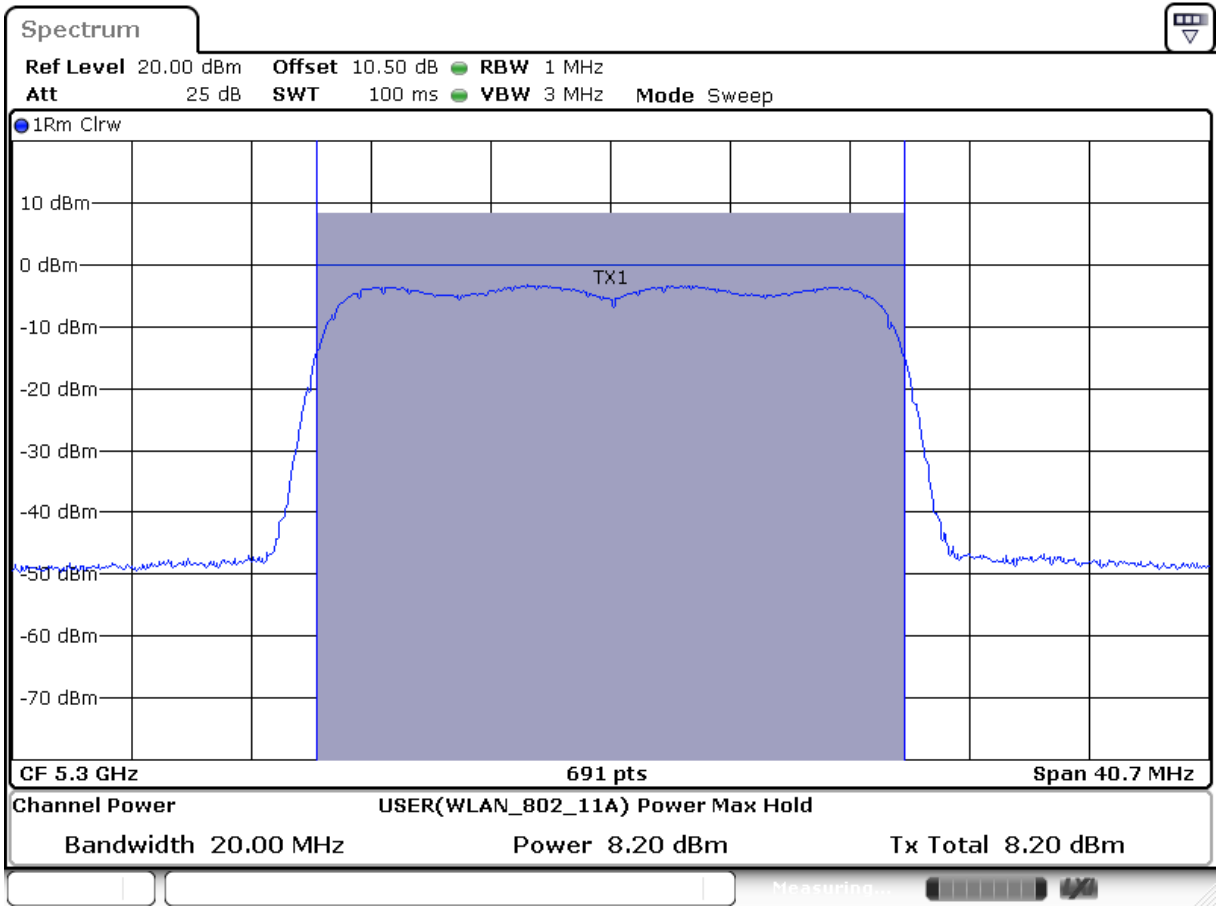
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ax20_Channel 60_Output power	

File: 20-10-MAS-019_5-3ax20_ANT2

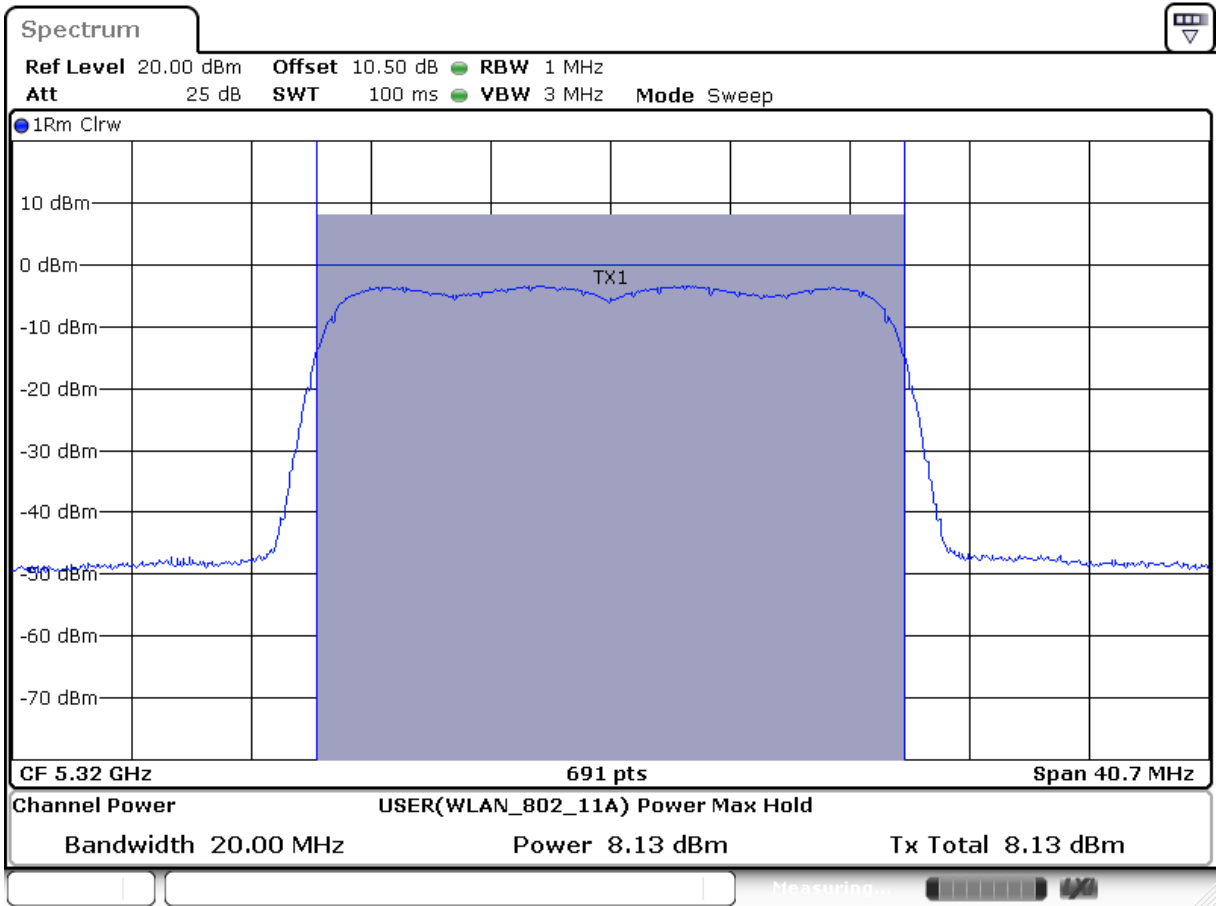
#14

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 64_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.7.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Channel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	8.95	8.21	11.61	23.36	-
M	8.95	8.20	11.60	23.36	-
H	8.88	8.13	11.53	23.36	-

- 註：1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
2. Fixed Limit = 250mW = 24dBm
3. Calculated Limit = 11dBm + 10 log (26dB BW)
4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm
5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm – (highest antenna gain – 6 dBi)
6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.8 調變技術: IEEE 802.11ax (40MHz)

7.4.8.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	41.3	27.16	9.03	24	Page 111
H	24	41.3	27.16	8.97	24	Page 112

註：1. 繪圖資料請參考第 111-112 頁。

2. 最大傳導輸出功率(Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax40_ANT1

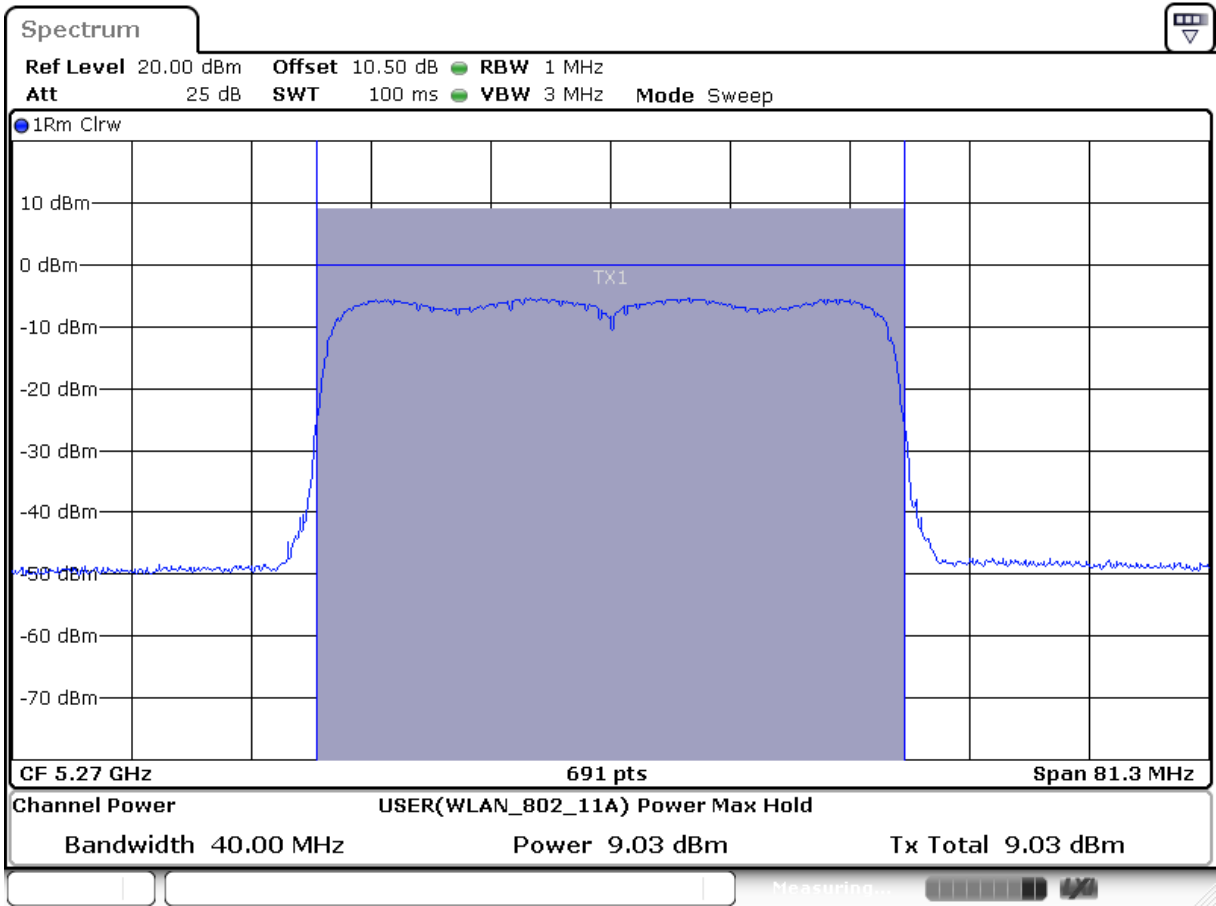
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms	Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ax40_Channel 54_Output power		

File: 20-10-MAS-019_5-3ax40_ANT1

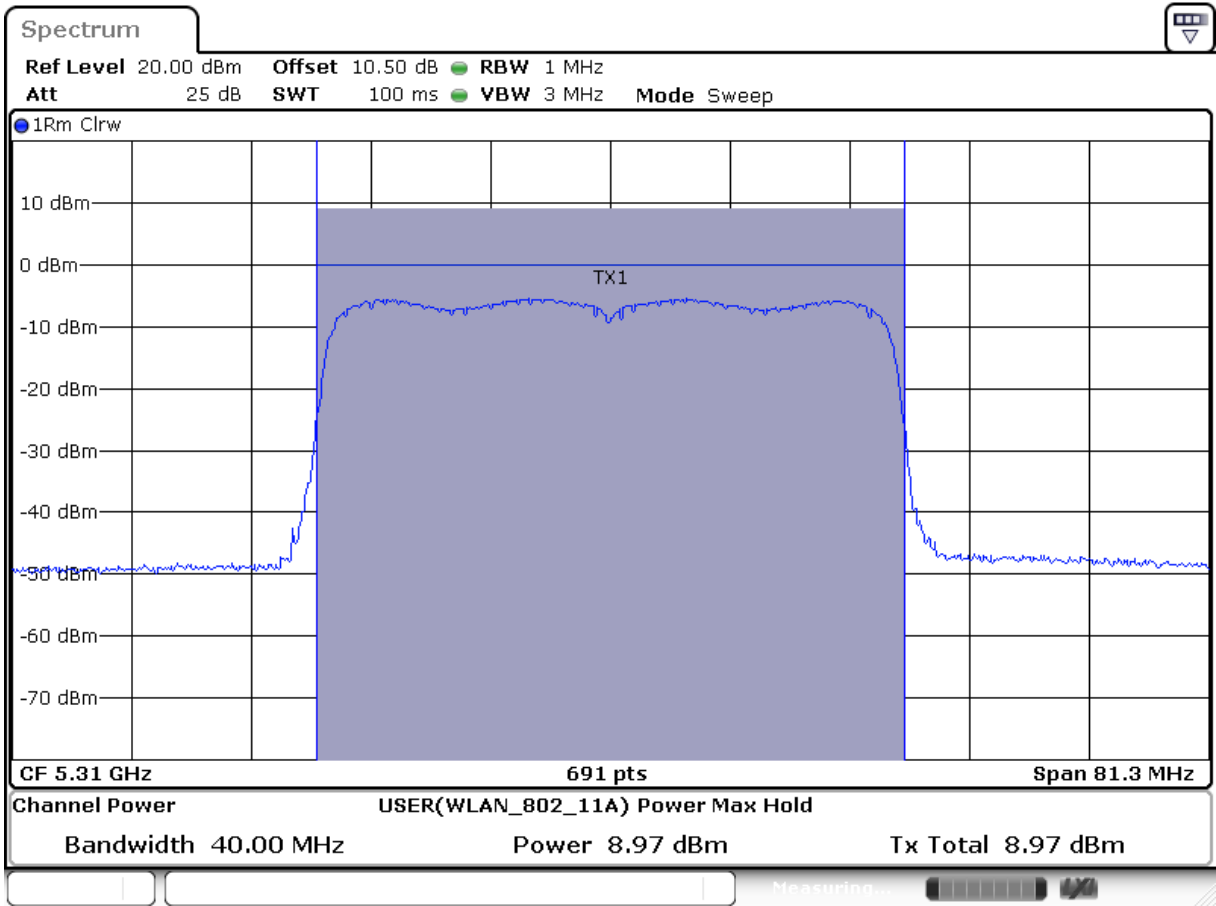
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT:

Model:

Test Mode:

Note:

Development Kit for PlayStation5

DFI-D1000AA

UNII

NCC_LP0002_802.11ax40_Channel 62_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.8.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	40.975	27.13	8.25	24	Page 114
H	24	41.138	27.14	8.23	24	Page 115

註：1. 繪圖資料請參考第 114-115 頁。

2. 最大傳導輸出功率(Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax40_ANT2

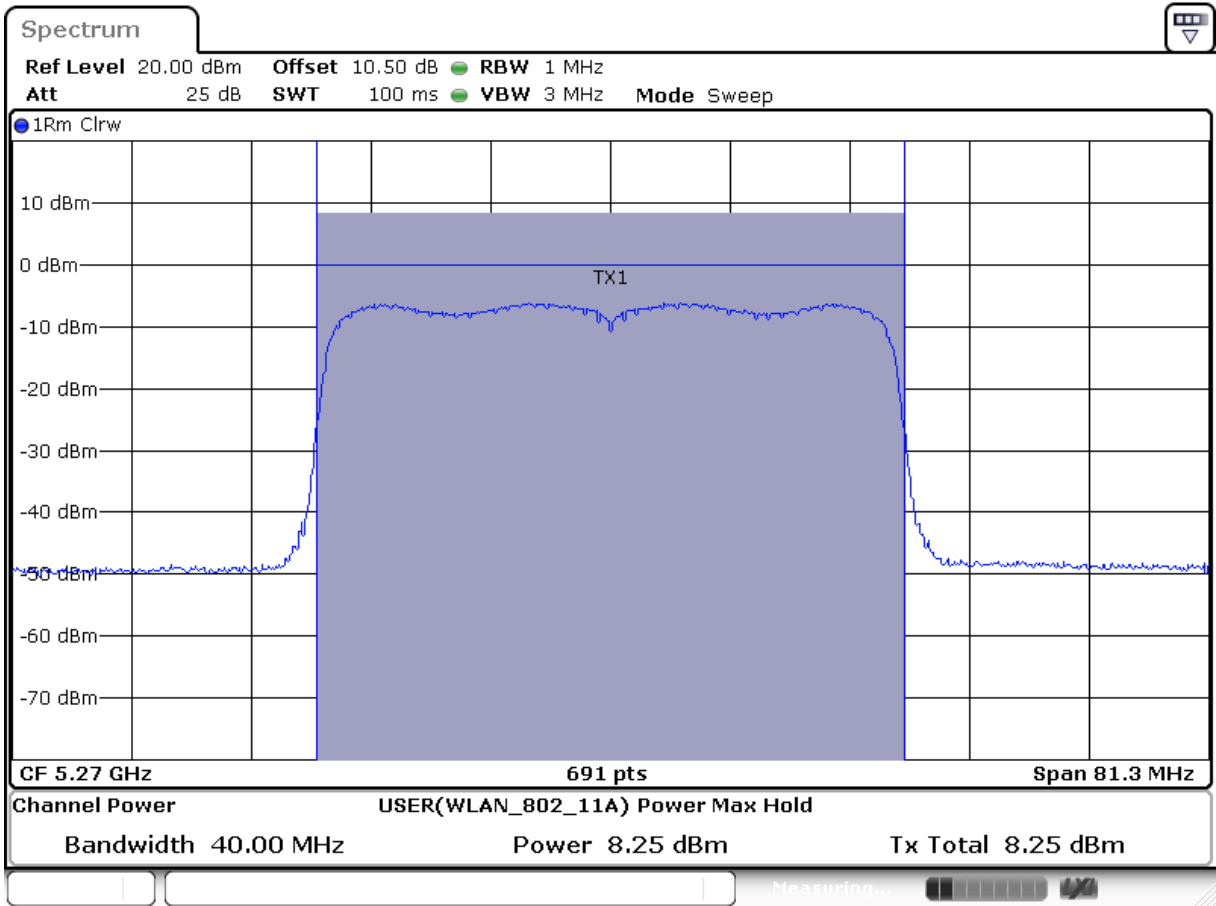
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax40_Channel 54_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

File: 20-10-MAS-019_5-3ax40_ANT2

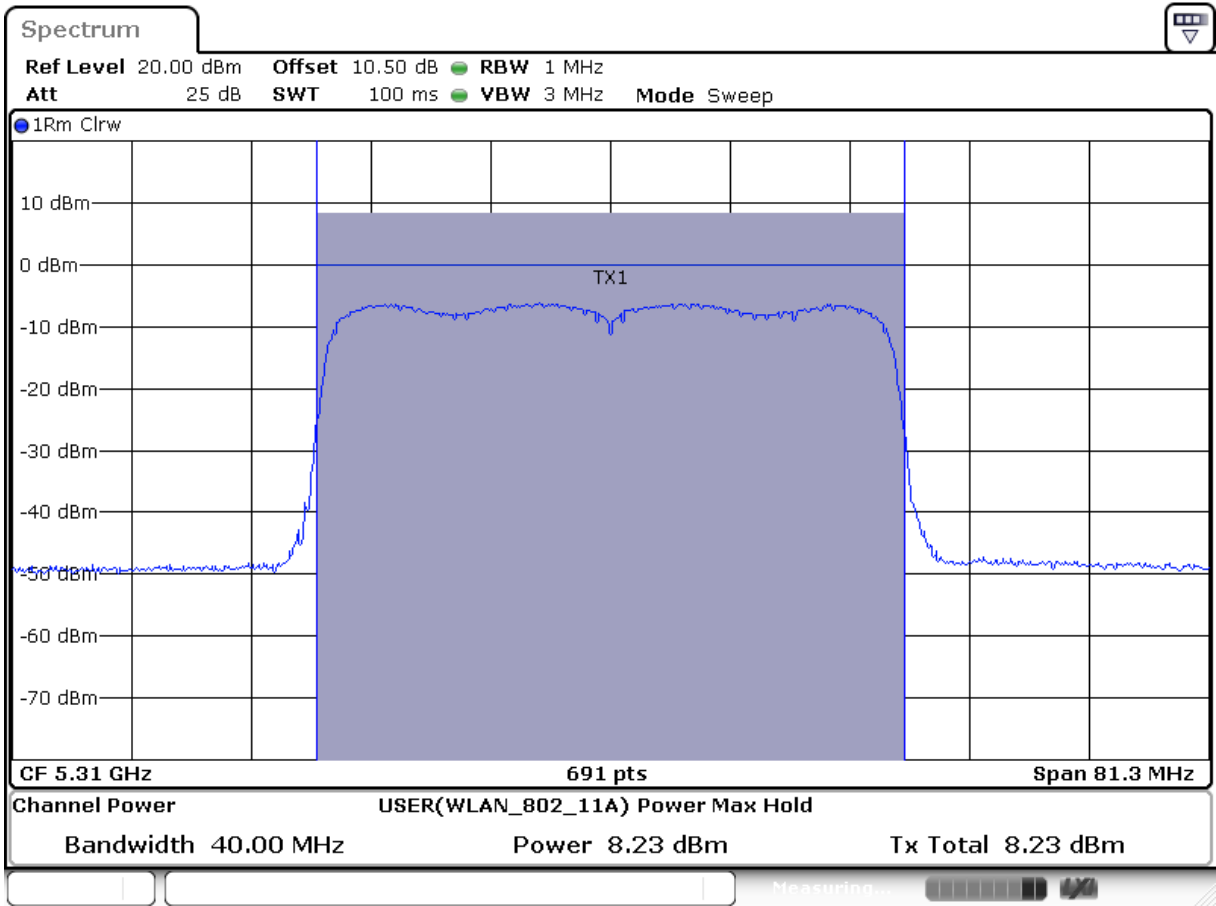
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT:

Model:

Test Mode:

Note:

Development Kit for PlayStation5

DFI-D1000AA

UNII

NCC_LP0002_802.11ax40_Channel 62_Output power

RF Conducted

Sweep Time: 100ms

RBW: 1000 KHz

Operator:

Att.: 25dB

VBW: 3000 KHz

Phillip

7.4.8.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi, NCC Limit 如下表所示:

Channel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	9.03	8.25	11.67	23.36	-
H	8.97	8.23	11.63	23.36	-

- 註: 1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
 2. Fixed Limit = 250mW = 24dBm
 3. Calculated Limit = 4dBm + 10 log (26dB BW)
 4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm
 5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm – (highest antenna gain – 6 dBi)
 6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.4.9 調變技術: IEEE 802.11ax (80MHz)

7.4.9.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Caculated Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	81.5	30.11	9.05	24	Page 118

註：1. 繪圖資料請參考第 118 頁。

2. 最大傳導輸出功率(Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit)
dBm – (highest antenna gain – 6 dBi)7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax80_ANT1

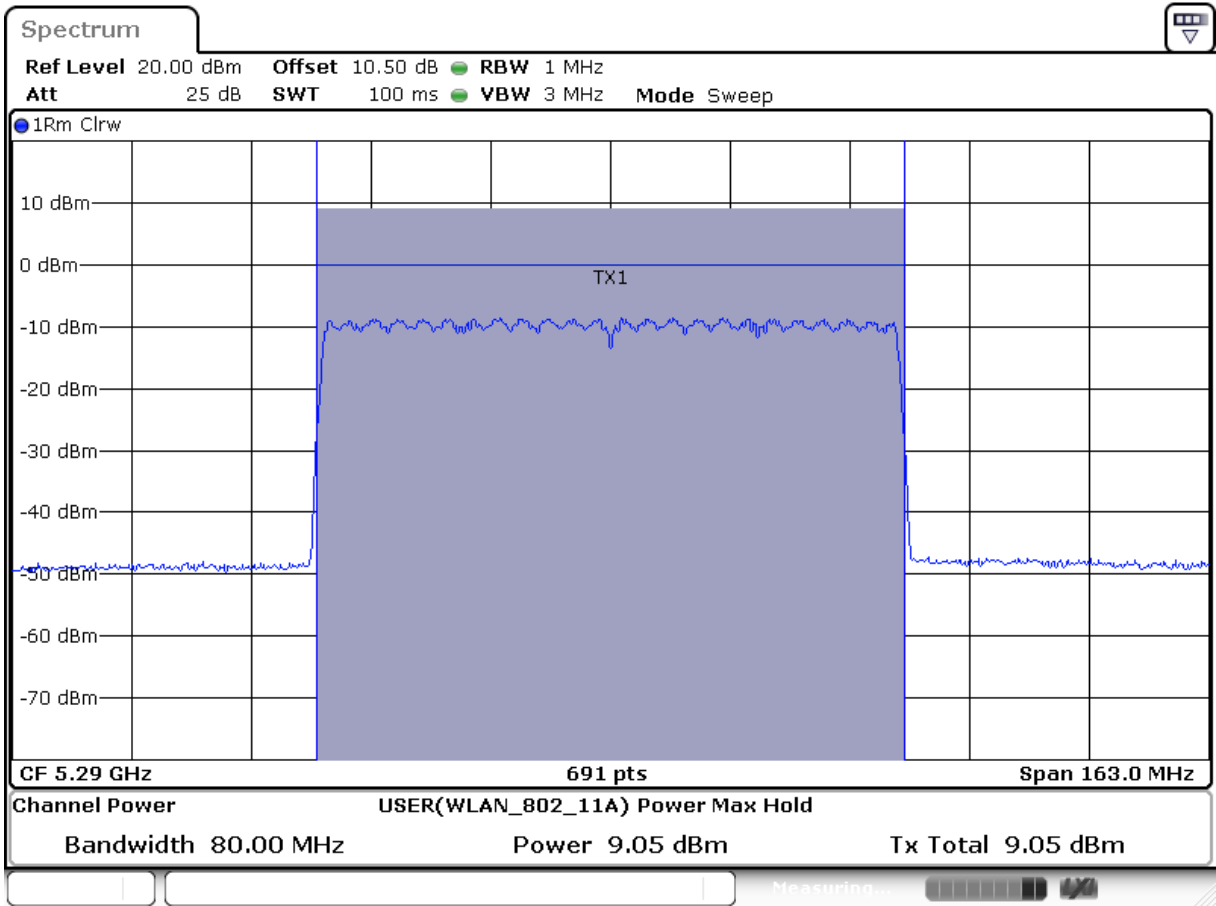
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ac40_Channel 58_Output power	

7.4.9.2 CHAIN1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Fixd limit (dBm)	26dB BW (MHz)	Limit (dBm)	Output Power (dBm)	NCC Limit (dBm)	Chart
L	24	81.826	30.13	8.33	24	Page 120

註：1. 繪圖資料請參考第 120 頁。

2. 最大傳導輸出功率(Maximum Output Power) 為經儀器校正補償過後的結果值。

3. Fixed Limit = 250mW=24dBm

4. Caculated Limit = 11dBm + 10 log (26dB BW)

5. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm

6. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Caculated Limit) dBm – (highest antenna gain – 6 dBi)

7. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax80_ANT2

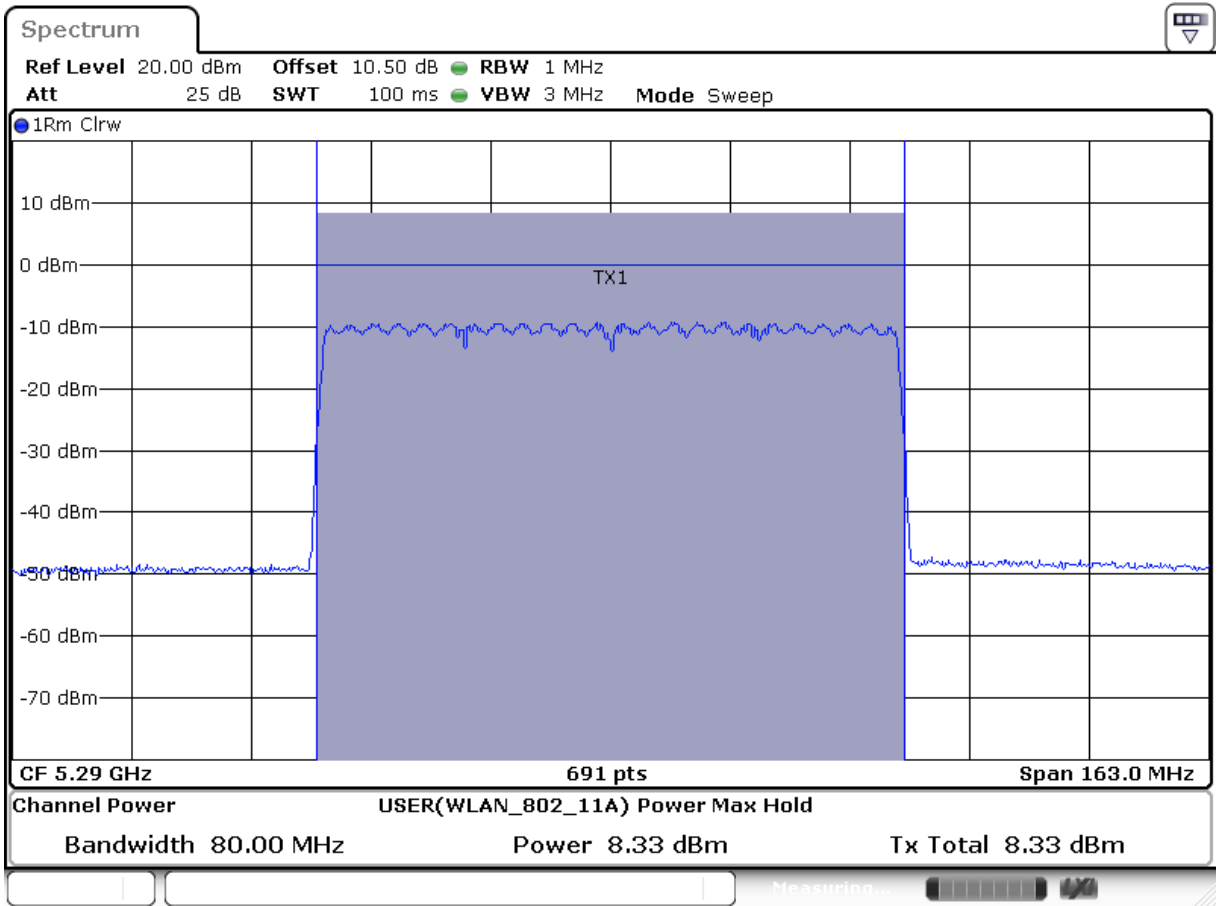
#1

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:		RF Conducted
EUT:	Development Kit for PlayStation5	Sweep Time: 100ms Att.: 25dB
Model:	DFI-D1000AA	RBW: 1000 KHz VBW: 3000 KHz
Test Mode:	UNII	Operator: Phillip
Note:	NCC_LP0002_802.11ac40_Channel 58_Output power	

7.4.9.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Ant 1 / Ant 2 combination 天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Channel	CHAIN 0 Maximum Output Power (dBm)	CHAIN 1 Maximum Output Power (dBm)	TOTAL Power (dBm)	NCC Limit (dBm)	Chart
L	9.05	8.33	11.72	23.36	-

- 註：1. 最大傳導輸出功率 (Maximum Output Power) 為經儀器校正補償過後的結果值。
 2. Fixed Limit = 250mW=24dBm
 3. Calculated Limit = 4dBm + 10 log (26dB BW)
 4. If antenna gain $\leq$ 6dBi, NCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm
 5. If antenna gain > 6dBi, NCC Limit = (Minimum of Fixed Limit and Calculated Limit) dBm – (highest antenna gain – 6 dBi)
 6. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

7.5 結果判定

高、中、低頻段的最大傳導輸出功率皆低於限制值。

8 功率密度之量測

8.1 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.3.2節之規定:

5.7.3.2 (2)最大功率頻譜密度在任何1 MHz 頻帶中應小於或等於11 dBm。

5.7.3.2 (3)使用超過6 dBi 方向增益之發射天線時，應依超過6 dBi 天線方向增益的dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

8.2 量測功率密度之配置

如圖 2 所示。

8.3 量測功率密度之儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

8.4 量測結果

測試工程師: 羅世勇

8.4.1 調變技術: IEEE 802.11a

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	2.44	11	Page 124
M	2.08	11	Page 125
H	2.40	11	Page 126

註：1. 繪圖資料請參考第 124-126 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 11dBm

4. If antenna gain $>$ 6dBi, NCC Limit = 11dBm – (highest antenna gain – 6 dBi)

5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

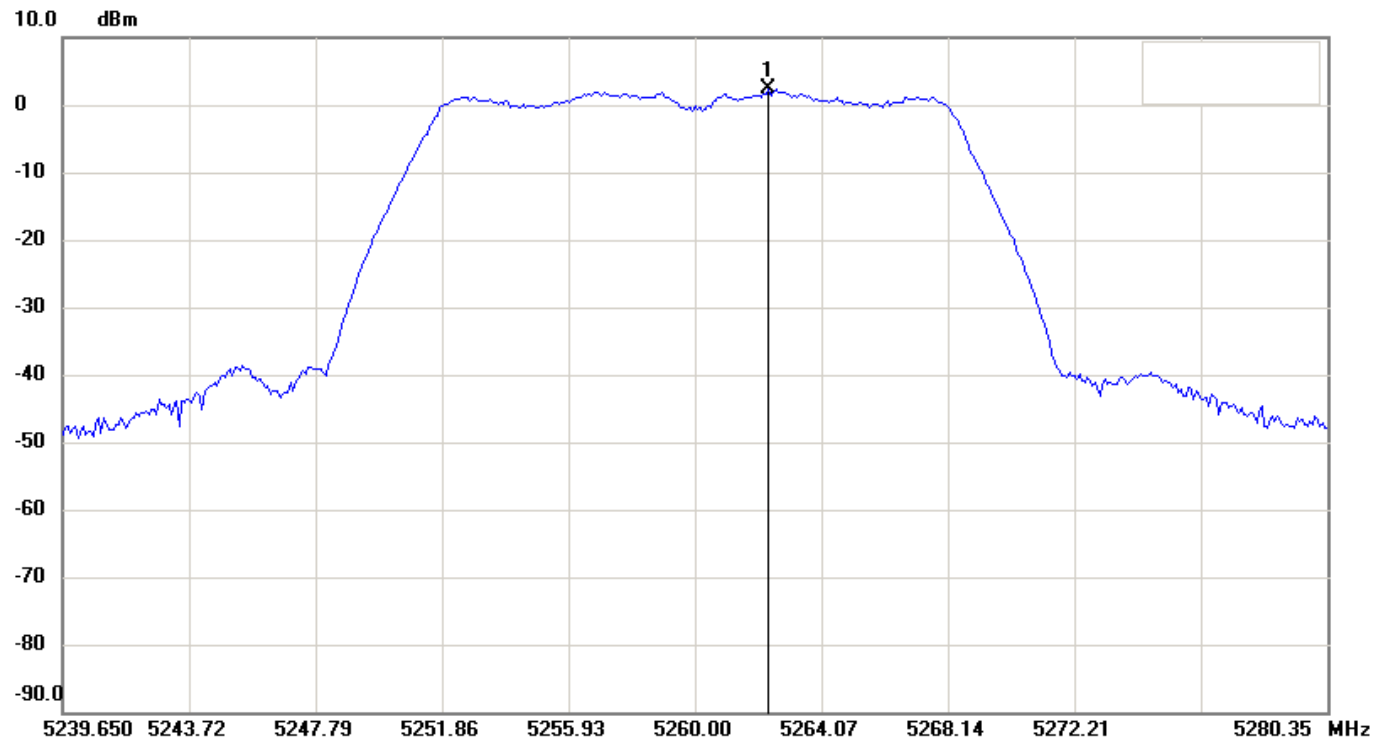
File: 20-10-MAS-019_5-3a_ANT1
 Site: RF-Cond01

#4

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 52_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5262.36060	2.44

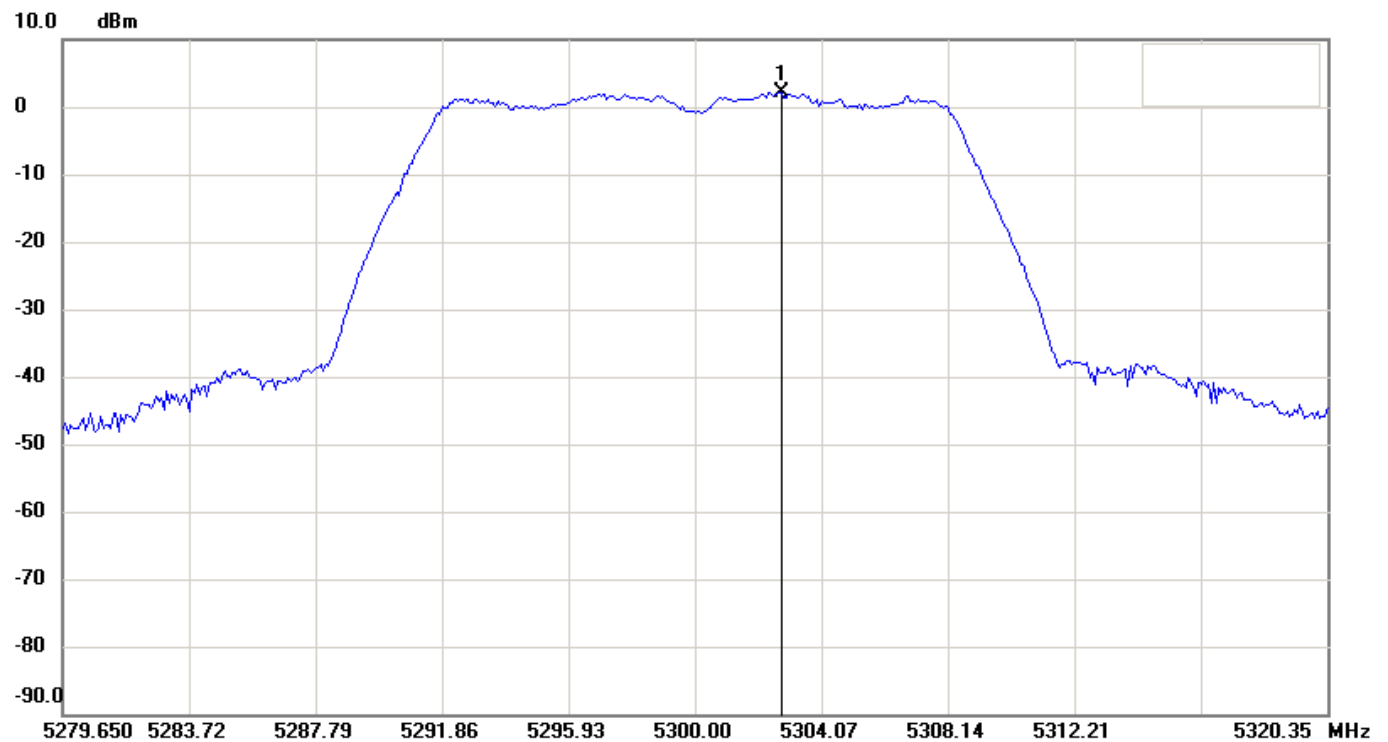
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#11

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 60_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5302.76760	2.08

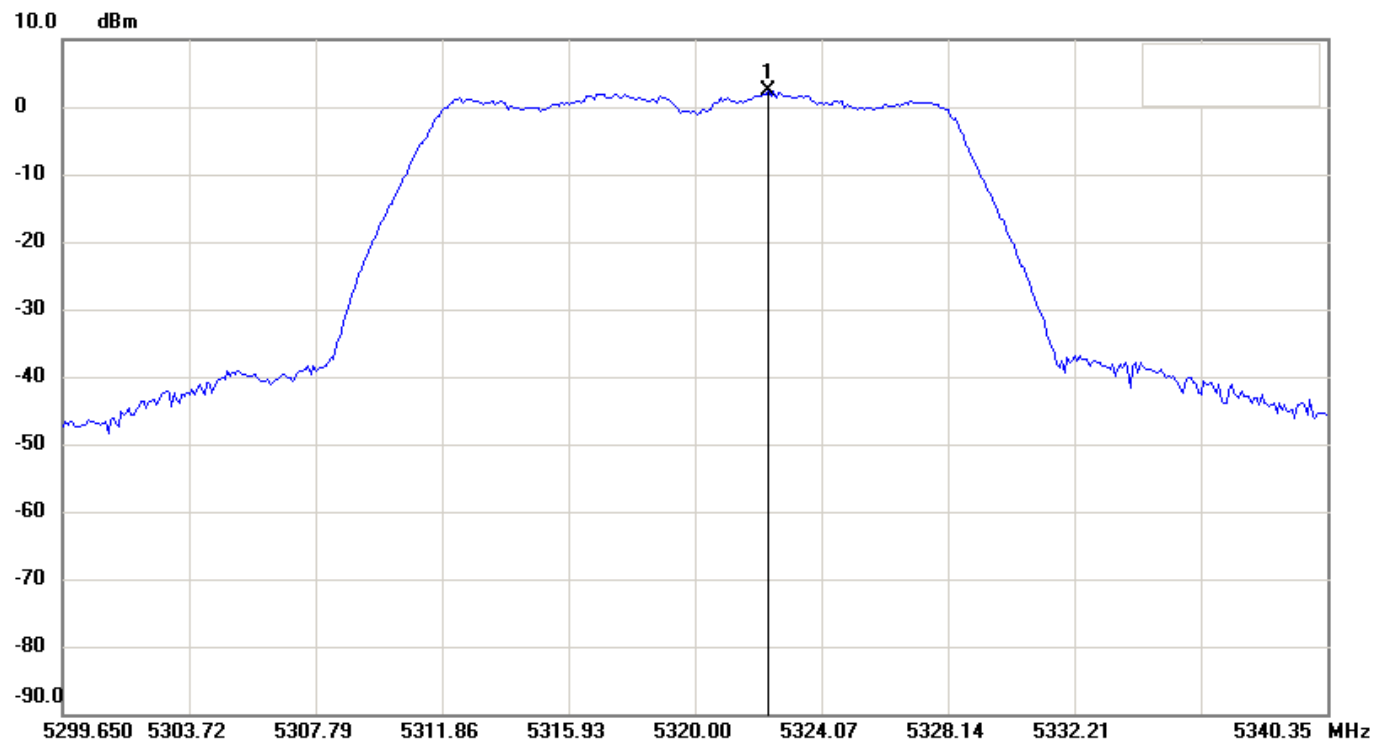
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#17

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11a_Channel 64_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5322.36060	2.40

8.4.2 調變技術: IEEE 802.11ax (20MHz)

8.4.2.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	4.20	11	Page 128
M	4.36	11	Page 129
H	4.04	11	Page 130

註：1. 繪圖資料請參考第 128-130 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm

4. If antenna gain > 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)

5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

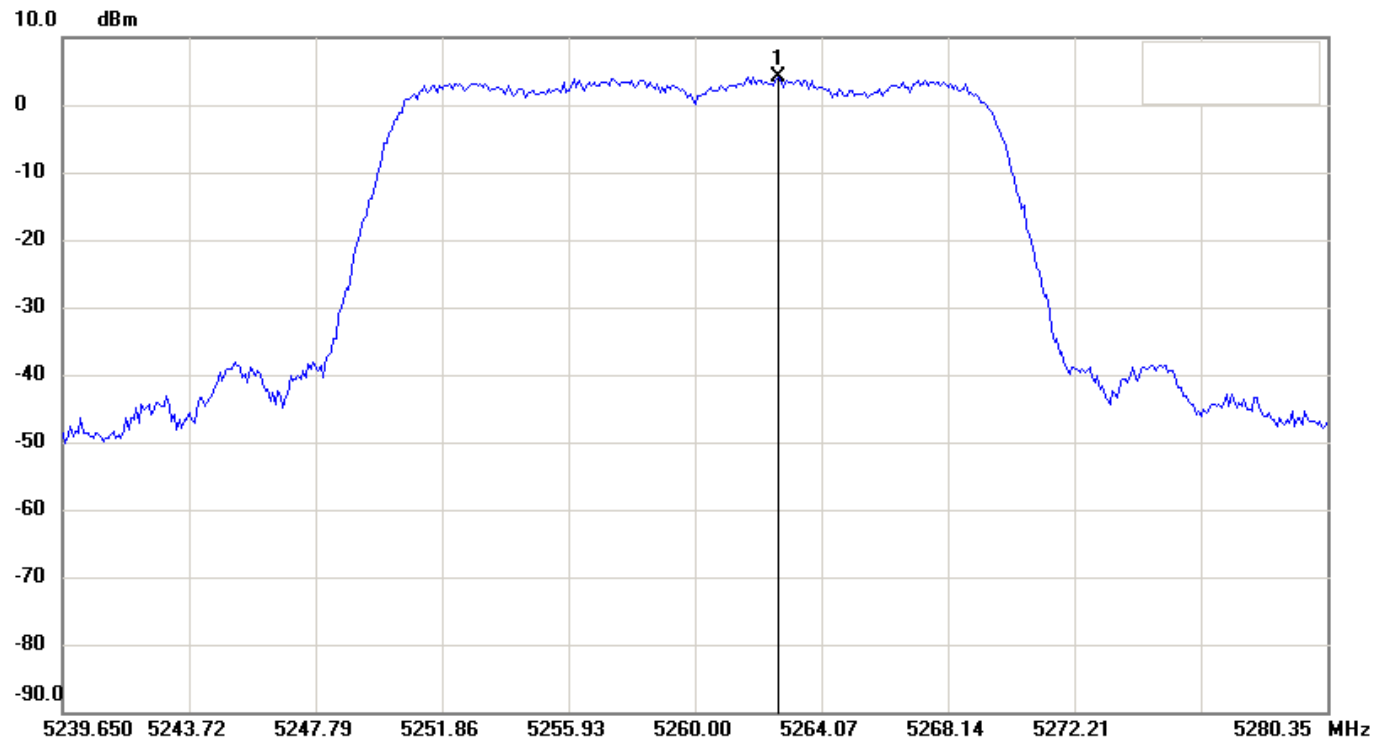
File: 20-10-MAS-019_5-3ax20_ANT1
Site: RF-Cond01

#4

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 52_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5262.68620	4.20

File: 20-10-MAS-019_5-3ax20_ANT1

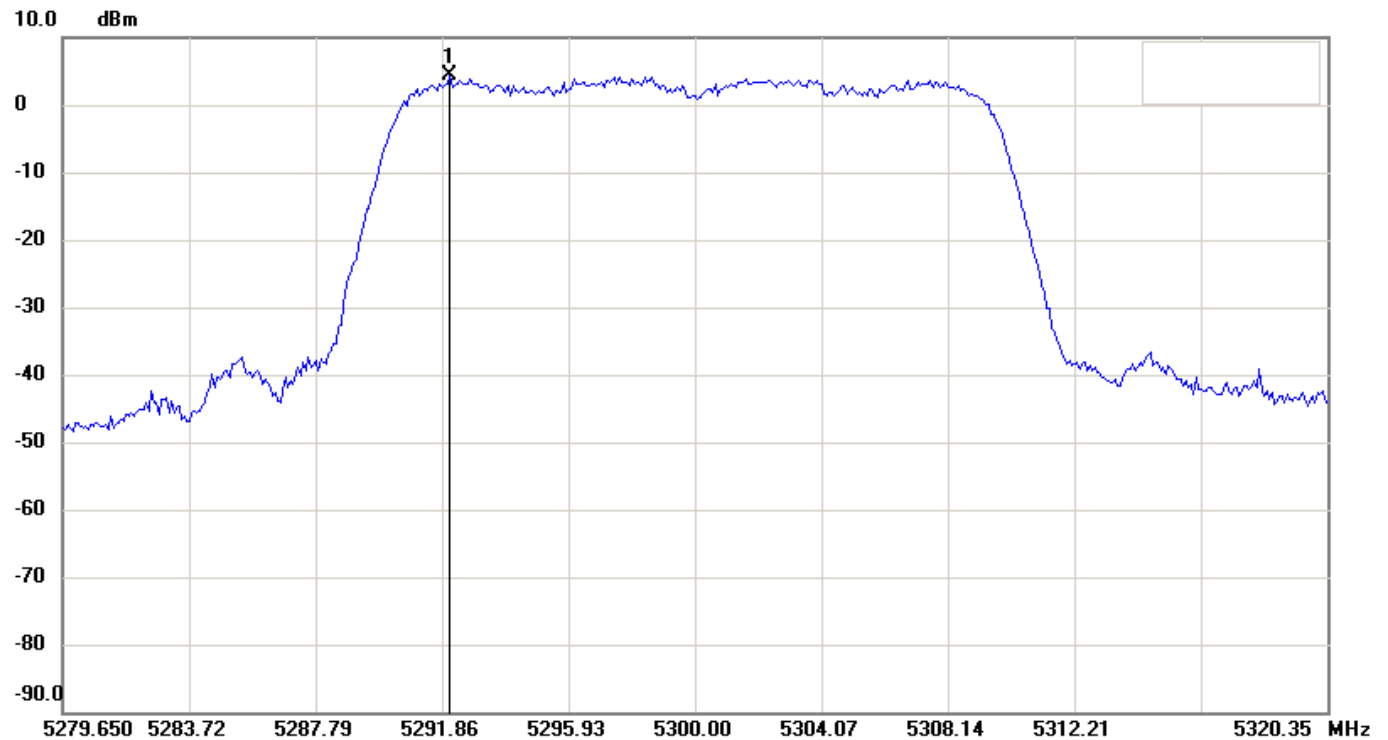
#11

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 60_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5292.10420	4.36

File: 20-10-MAS-019_5-3ax20_ANT1

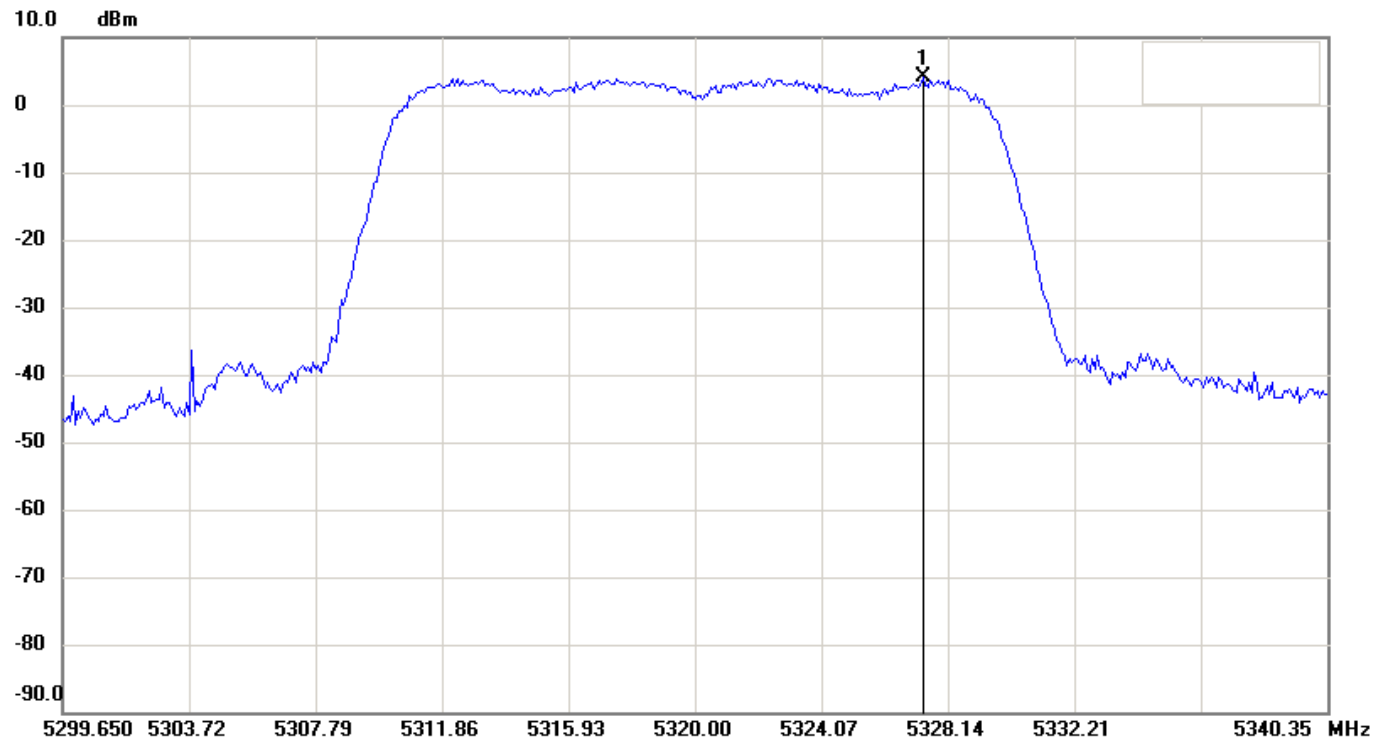
#17

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 64_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5327.32600	4.04

8.4.2.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	3.70	11	Page 132
M	3.72	11	Page 133
H	3.83	11	Page 134

註：1. 繪圖資料請參考第 132-134 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm4. If antenna gain $>$ 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax20_ANT2

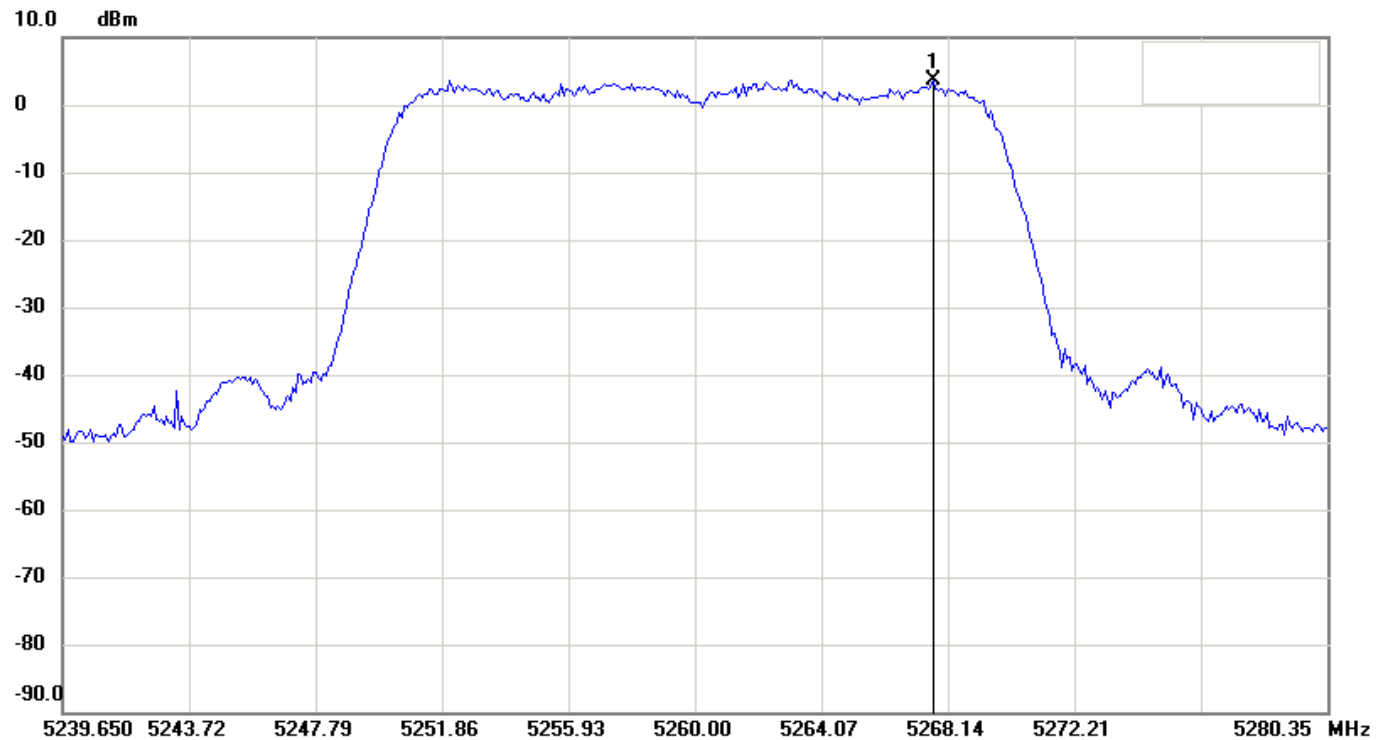
#4

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 52_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5267.65160	3.70

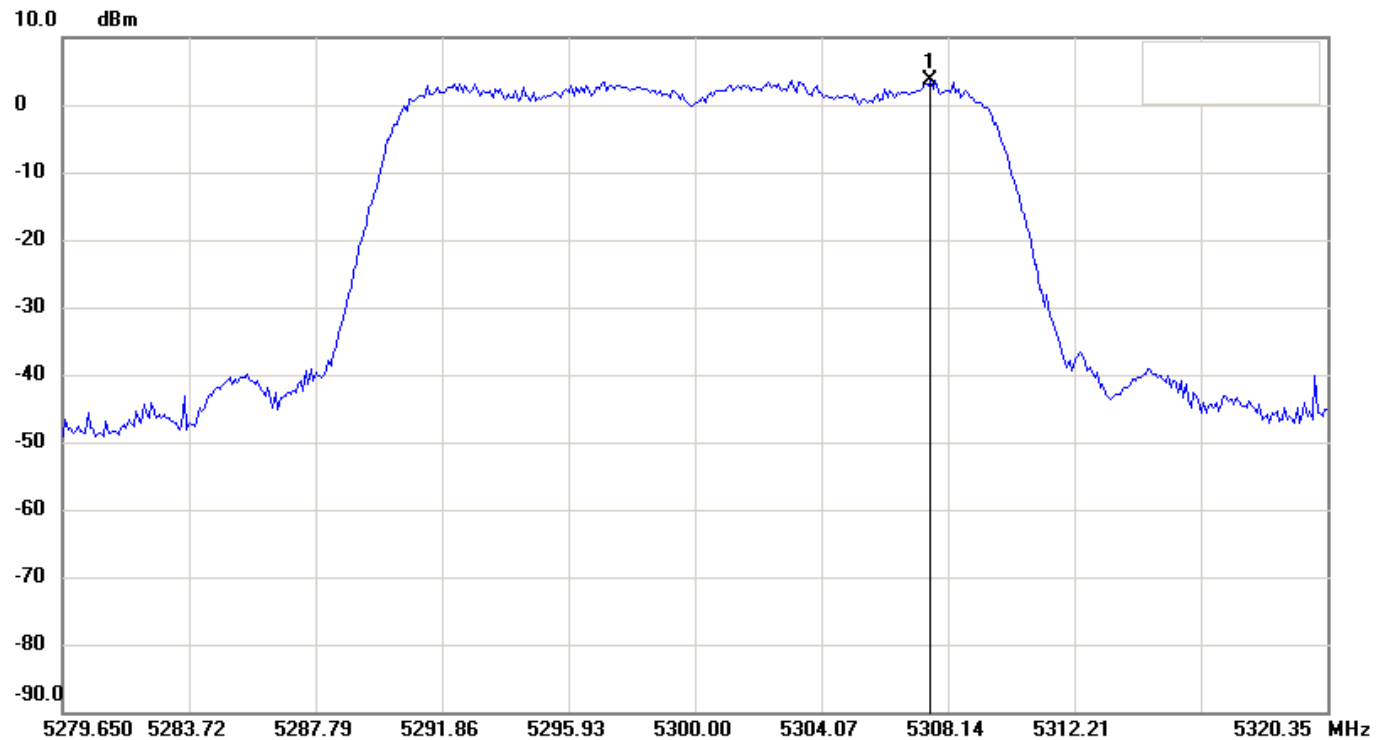
File: 20-10-MAS-019_5-3ax20_ANT2
Site: RF-Cond01

#11

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 60_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5307.57020	3.72

File: 20-10-MAS-019_5-3ax20_ANT2

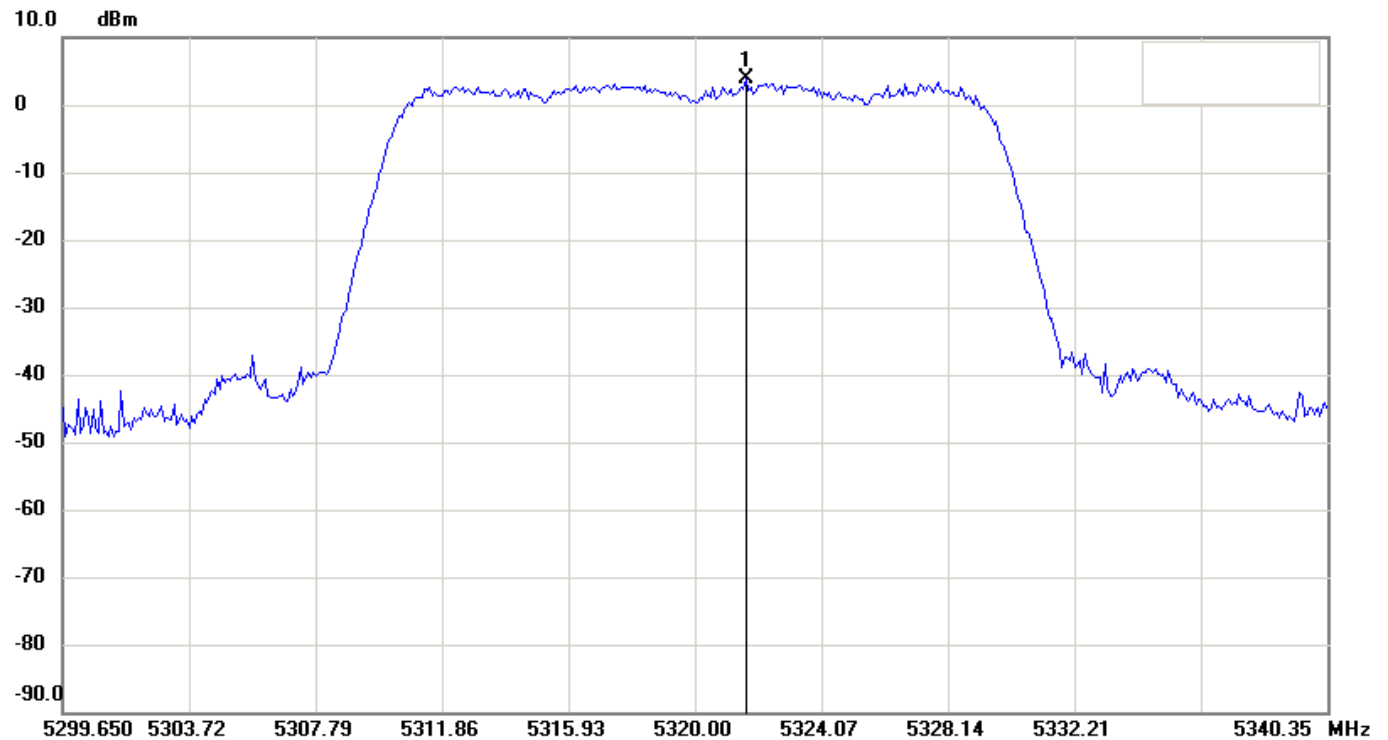
#17

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 64_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5321.62800	3.83

8.4.2.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Total power density calculation formula:

$$10 \log (10^{(\text{Chain 0 PPSD} / 10)} + 10^{(\text{Chain 1 PPSD} / 10)})$$

天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Channel	Peak Power Spectral Density (dBm)		Total Peak Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
	Chain 0	Chain 1			
L	4.20	3.70	6.97	10.36	-
M	4.36	3.72	7.06	10.36	-
H	4.04	3.83	6.95	10.36	-

註：1. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

2. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm

3. If antenna gain > 6dBi, NCC Limit = 11dBm – (highest antenna gain – 6 dBi)

4. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

8.4.3 調變技術: IEEE 802.11ax (40MHz)

8.4.3.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi , NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	2.06	11	Page 137
H	1.23	11	Page 138

註：1. 繪圖資料請參考第 137-138 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm4. If antenna gain $>$ 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax40_ANT1

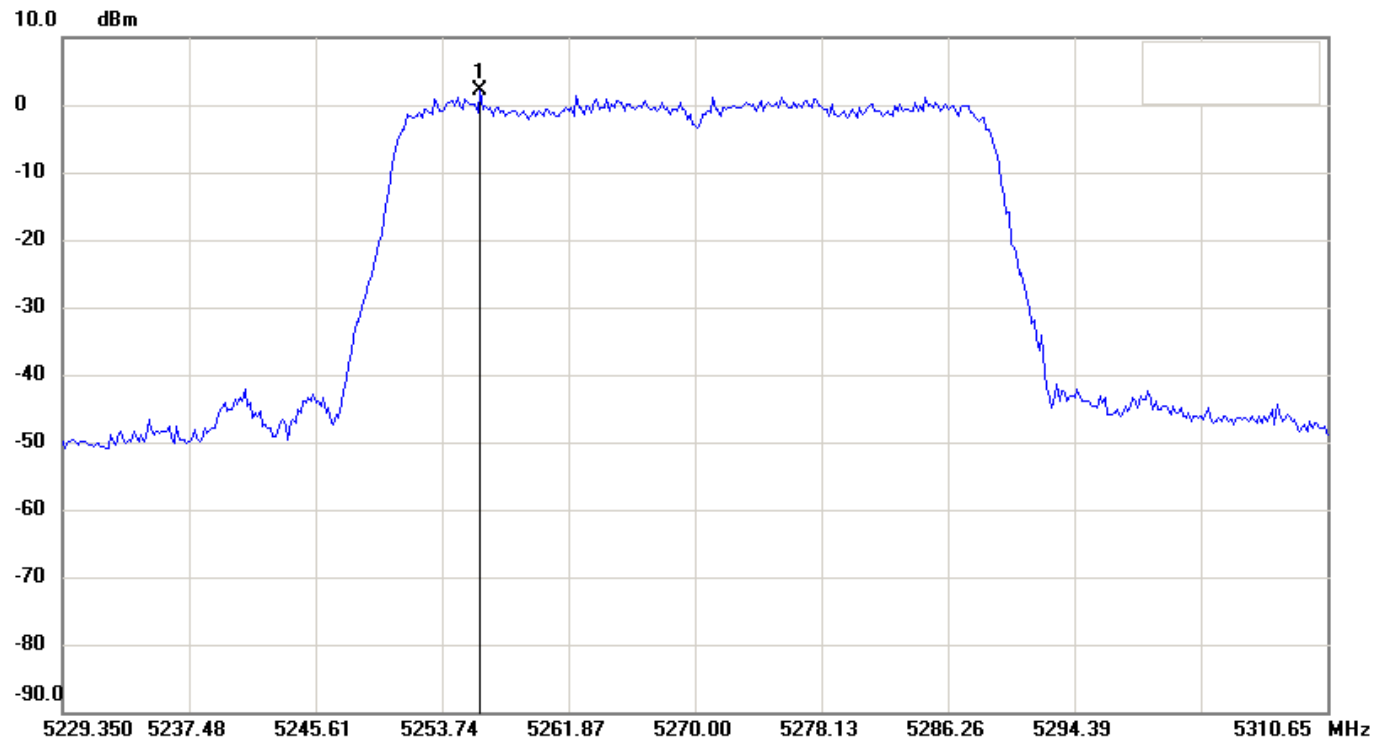
#4

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax40_Channel 54_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5256.17900	2.06

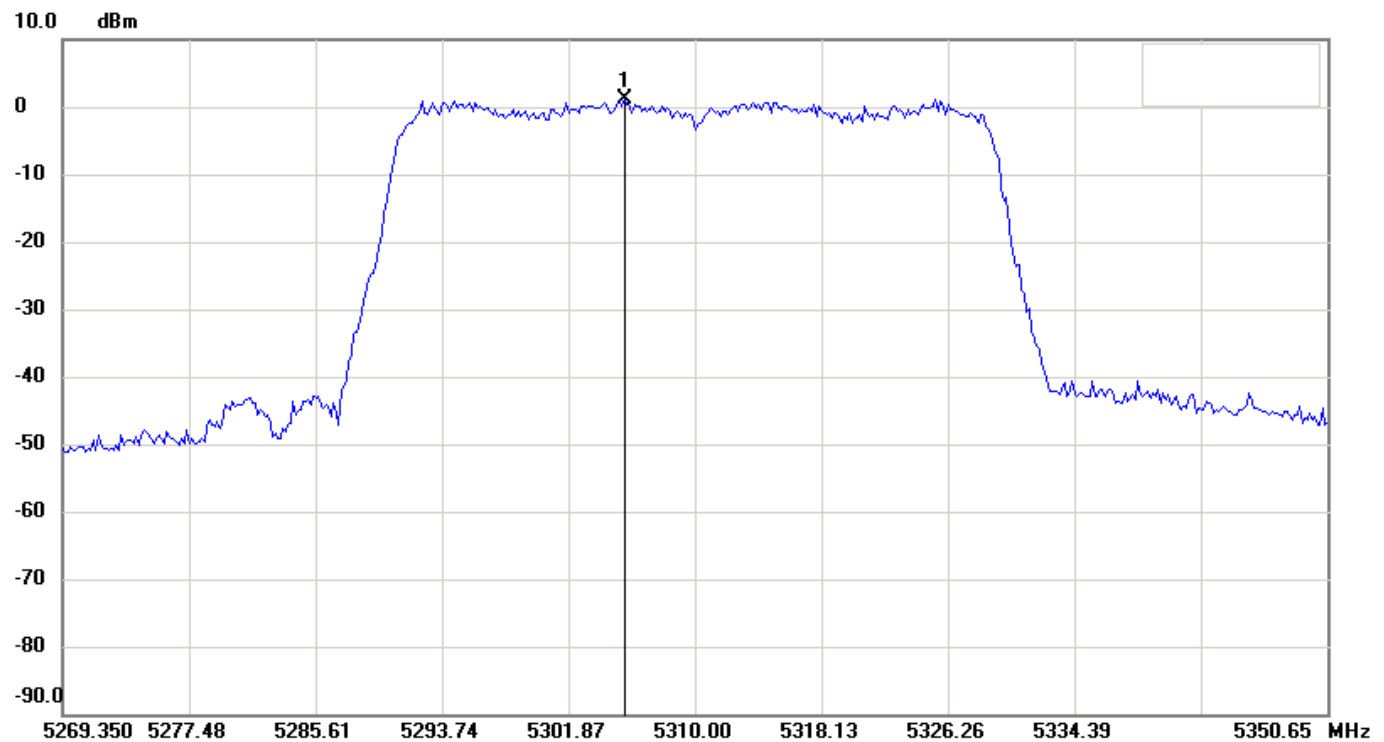
File: 20-10-MAS-019_5-3ax40_ANT1
 Site: RF-Cond01

#11

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax40_Channel 62_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5305.44720	1.23

8.4.3.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	1.65	11	Page 140
H	1.11	11	Page 141

註：1. 繪圖資料請參考第 140-141 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm4. If antenna gain $>$ 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax40_ANT2

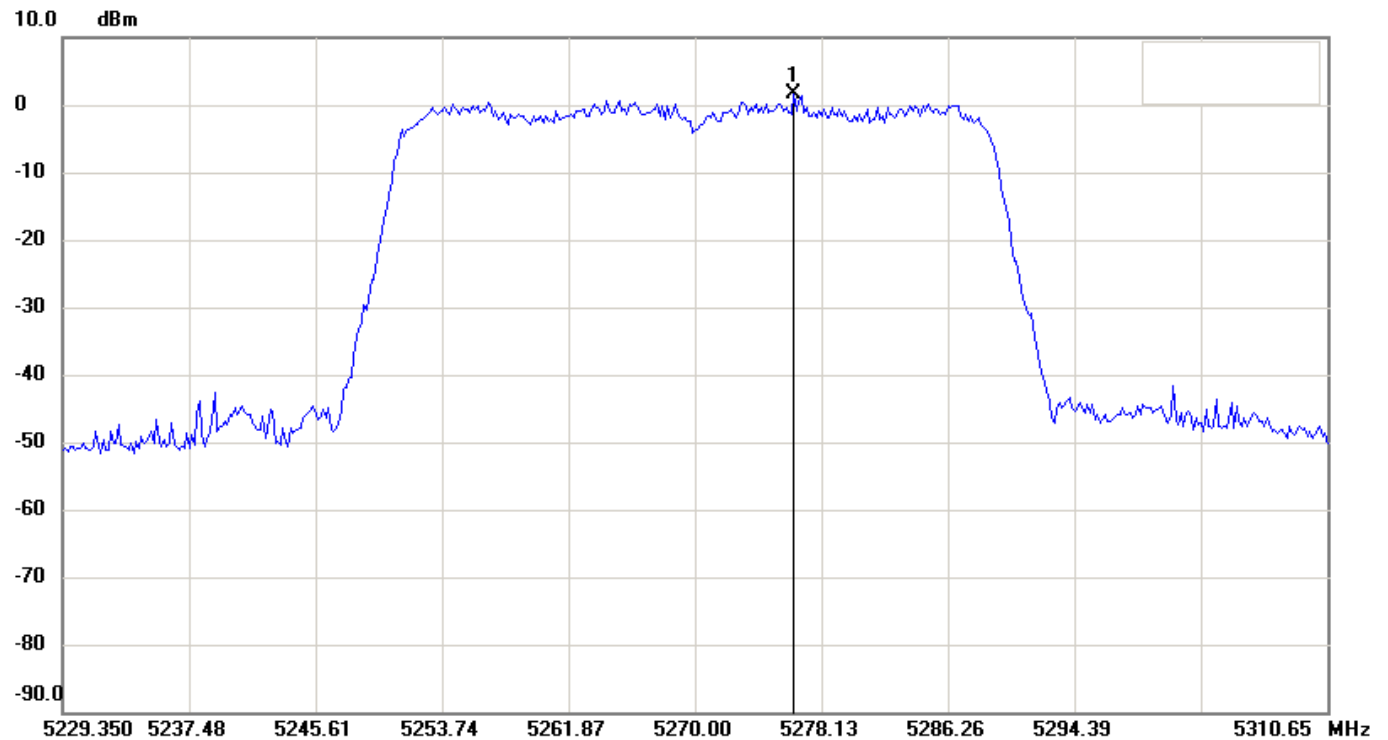
#4

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax40_Channel 54_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5276.34140	1.65

File: 20-10-MAS-019_5-3ax40_ANT2

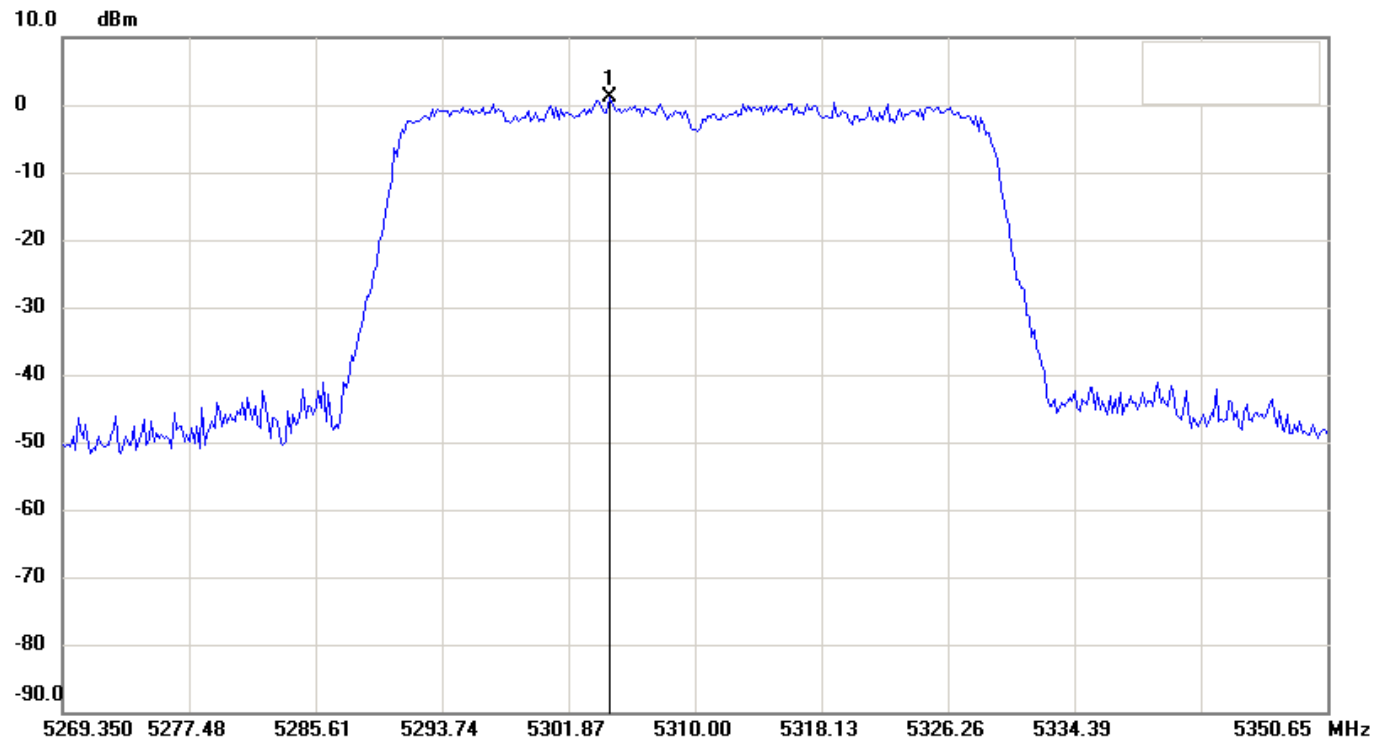
#11

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax40_Channel 62_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5304.47160	1.11

8.4.3.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Total power density calculation formula:

$$10 \log (10^{(\text{Chain 0 PPSD} / 10)} + 10^{(\text{Chain 1 PPSD} / 10)})$$

天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Channel	Peak Power Spectral Density (dBm)		Total Peak Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
	Chain 0	Chain 1			
L	2.06	1.65	4.87	10.36	-
H	1.23	1.11	4.18	10.36	-

註：1. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

2. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm

3. If antenna gain > 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)

4. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

8.4.4 調變技術: IEEE 802.11ax (80MHz)

8.4.4.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 5 dBi，NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	-1.37	11	Page 144

註：1. 繪圖資料請參考第 144 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq$ 6dBi, NCC Limit = 11dBm

4. If antenna gain > 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)

5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax80_ANT1

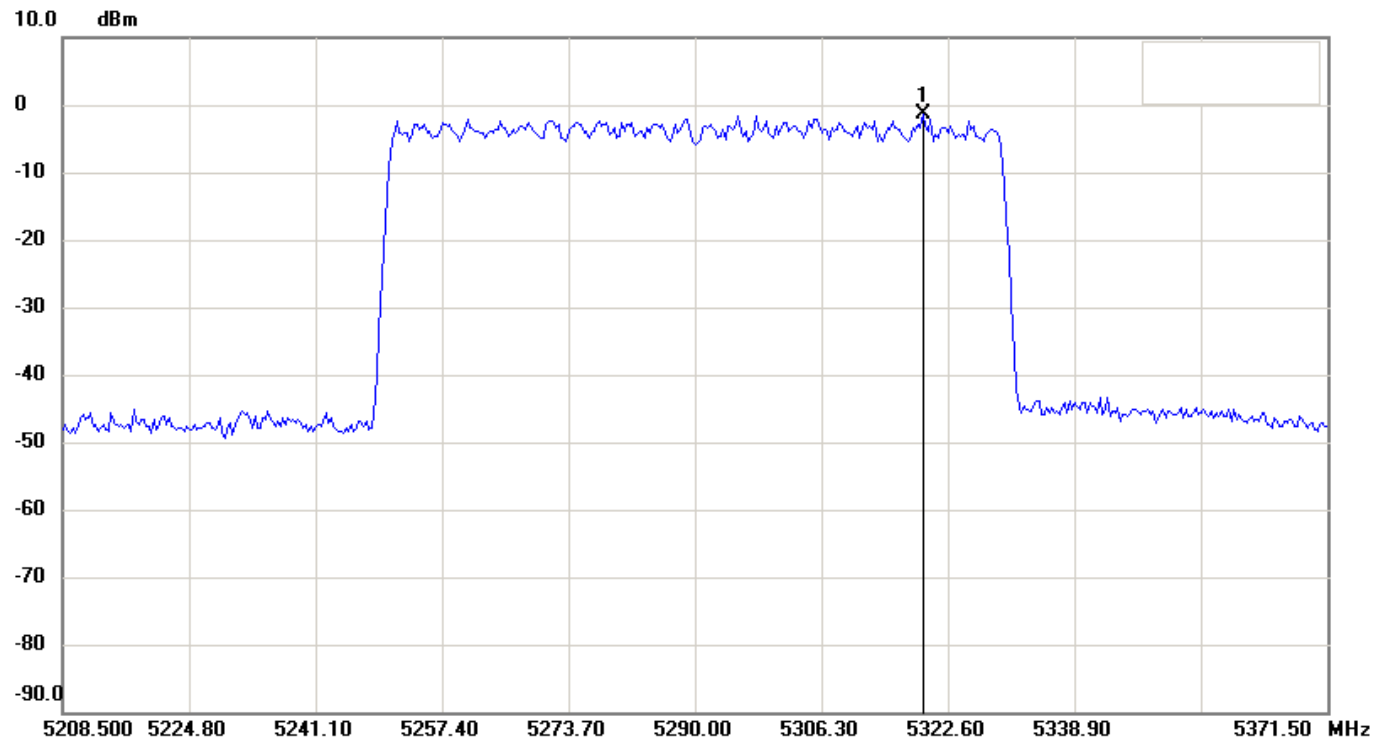
#4

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax80_Channel 58_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5319.34000	-1.37

8.4.4.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

天線增益最大值為 2 dBi，NCC Limit 如下表所示：

Channel	Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
L	-1.06	11	Page 146

註：1. 繪圖資料請參考第 146 頁。

2. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

3. If antenna gain $\leq 6\text{dBi}$, NCC Limit = 11dBm4. If antenna gain $> 6\text{dBi}$, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)5. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

File: 20-10-MAS-019_5-3ax80_ANT2

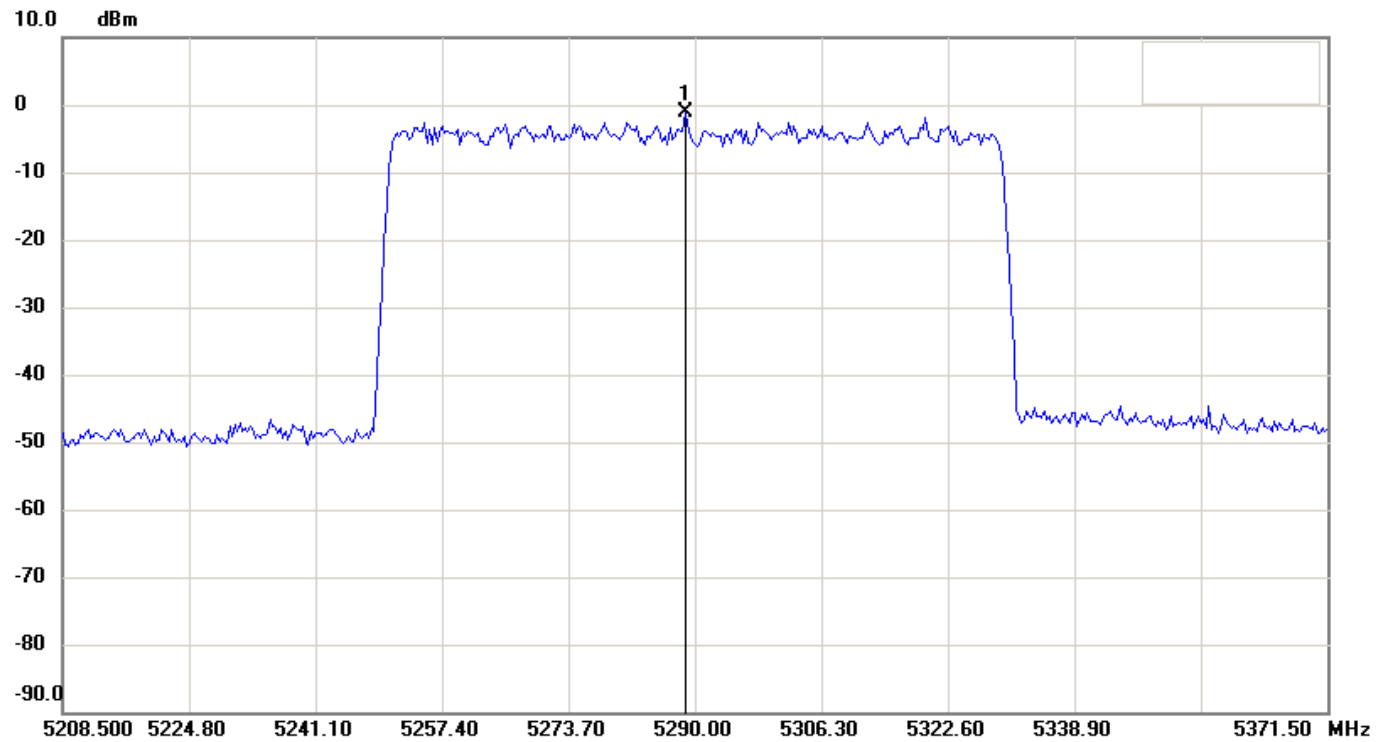
#4

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax80_Channel 58_Power Density

RF Conducted

Sweep Time: 1ms Att.: 15dB

RBW: 1000 KHz VBW: 3000 KHz

Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5288.69600	-1.06

8.4.4.3 CHAIN 0 + CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

Total power density calculation formula:

$$10 \log (10^{(\text{Chain 0 PPSD} / 10)} + 10^{(\text{Chain 1 PPSD} / 10)})$$

天線增益最大值為 6.64 dBi，NCC Limit 如下表所示：

Channel	Peak Power Spectral Density (dBm)		Total Peak Power Spectral Density (dBm)	NCC Limit (dBm)	Chart
	Chain 0	Chain 1			
L	-1.37	-1.06	1.80	10.36	-

註：1. 功率頻譜密度 (Power Spectral Density) 為經儀器校正補償過後的結果值。

2. If antenna gain $\leq$ 6dBi, NCC Limit = 11 dBm

3. If antenna gain > 6dBi, NCC Limit = 11 dBm – (highest antenna gain – 6 dBi)

4. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

8.5 結果判定

高、中、低頻段的功率頻譜密度皆低於限值，合乎標準規定。

9 混附波發射限制之量測

9.1 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.1之規定，在 5.15 GHz～5.35 GHz 及 5.470 GHz～5.725 GHz 頻帶操作的發射器：帶外發射之有效等向輻射功率(EIRP) ≤ -27 dBm/MHz。

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.3之規定，測量不必要發射時，應使用之最低解析頻寬為 1 MHz。必要時，於頻帶邊緣附近可使用小於 1 MHz 之解析頻寬，並以補償方式計算其總值。

9.2 混附波發射限制之測試配置

如圖2 所示。

9.3 量測混附波發射限制之儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSV
Attenuator	WEINSCHEL	56-10

測試軟體: LZ-RF (Ver. ETC-3A2)

9.4 混附波發射限制之量測結果 (傳導方式量測)

Single Conducted Limit:

Eirp Limit – Aantenna Directional Gain – 10 log[number of Tx output(s)]

測試工程師: 羅世勇

9.4.1 調變技術: IEEE 802.11a

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

註：1. 繪圖資料請參考第 149-154 頁。

2. 量測不準確度: ± 1.5 dB ($1\text{GHz} \leq f \leq 40\text{GHz}$)

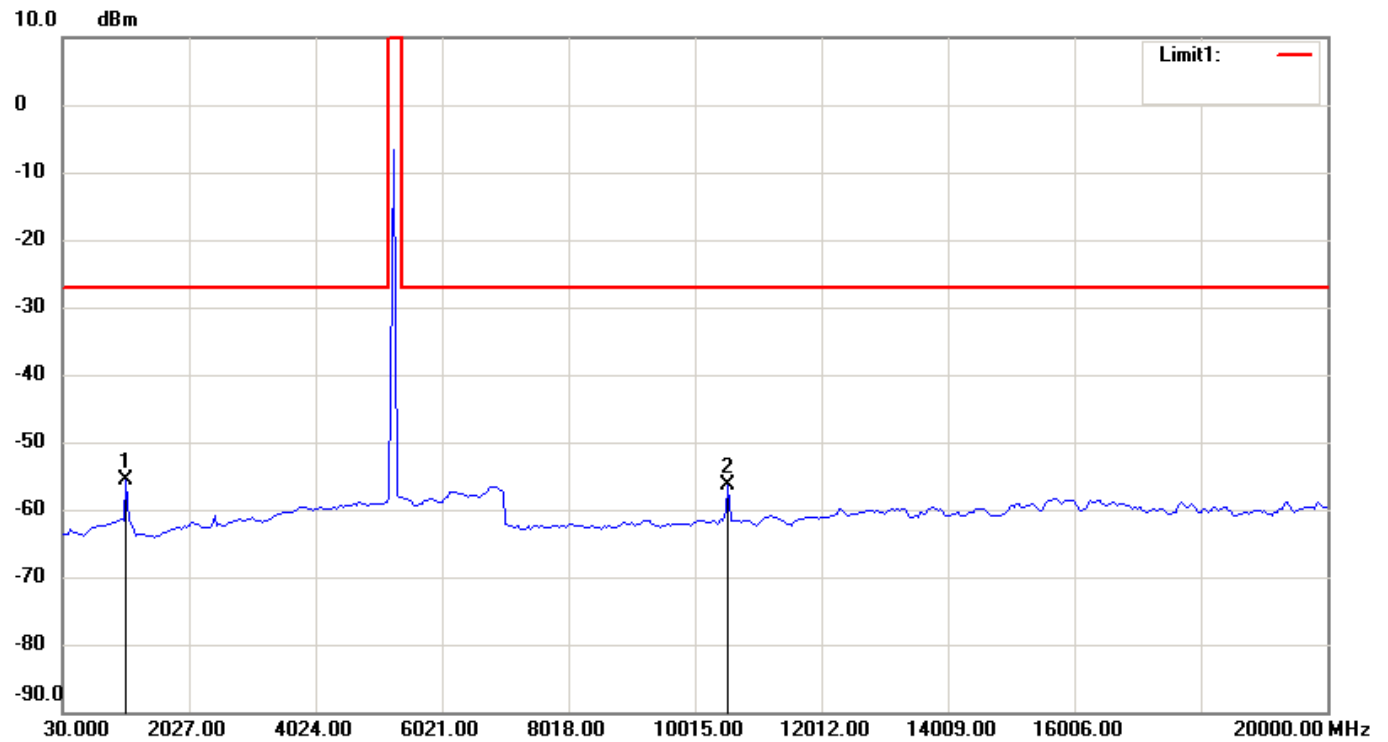
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a_Channel 52_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1028.50000	-55.58
2	10534.22000	-56.48

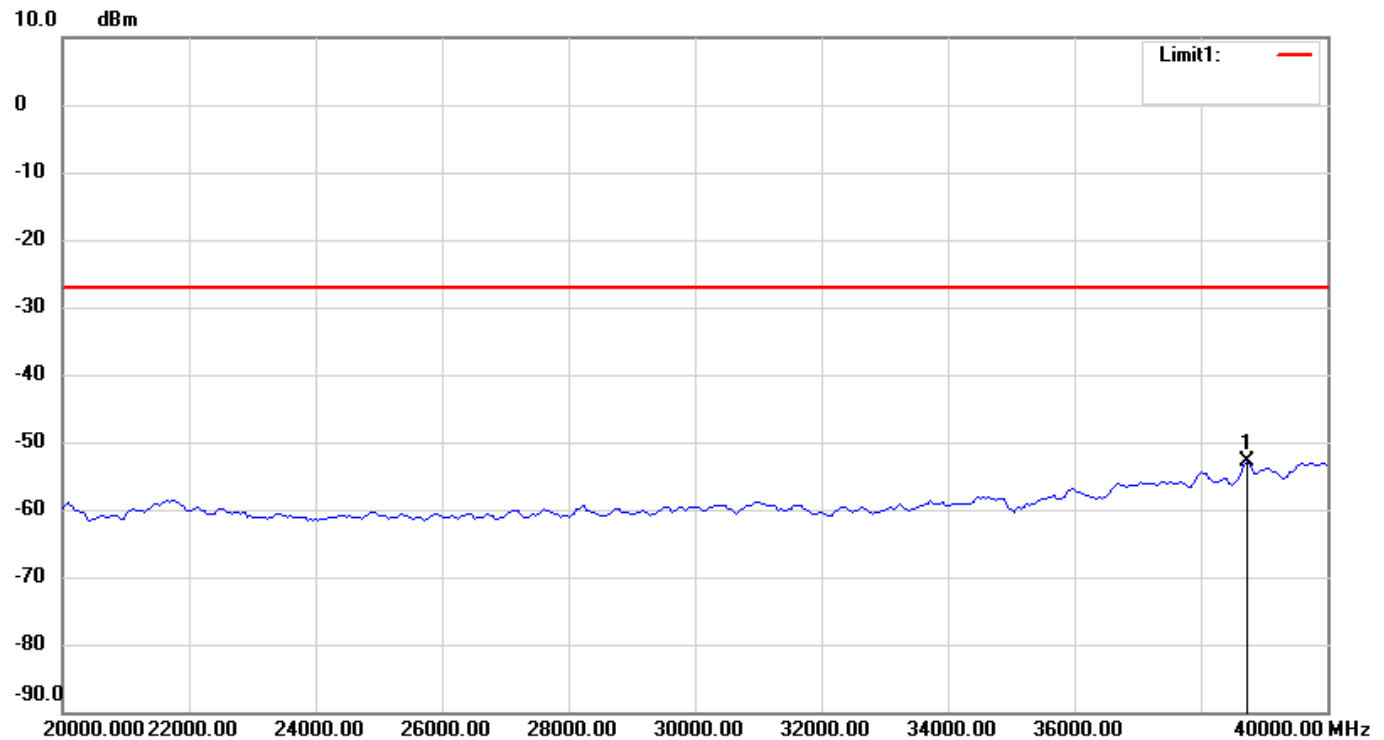
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#6

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a_Channel 52_Spurious-2

RF Conducted
Sweep Time: 80ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-52.81

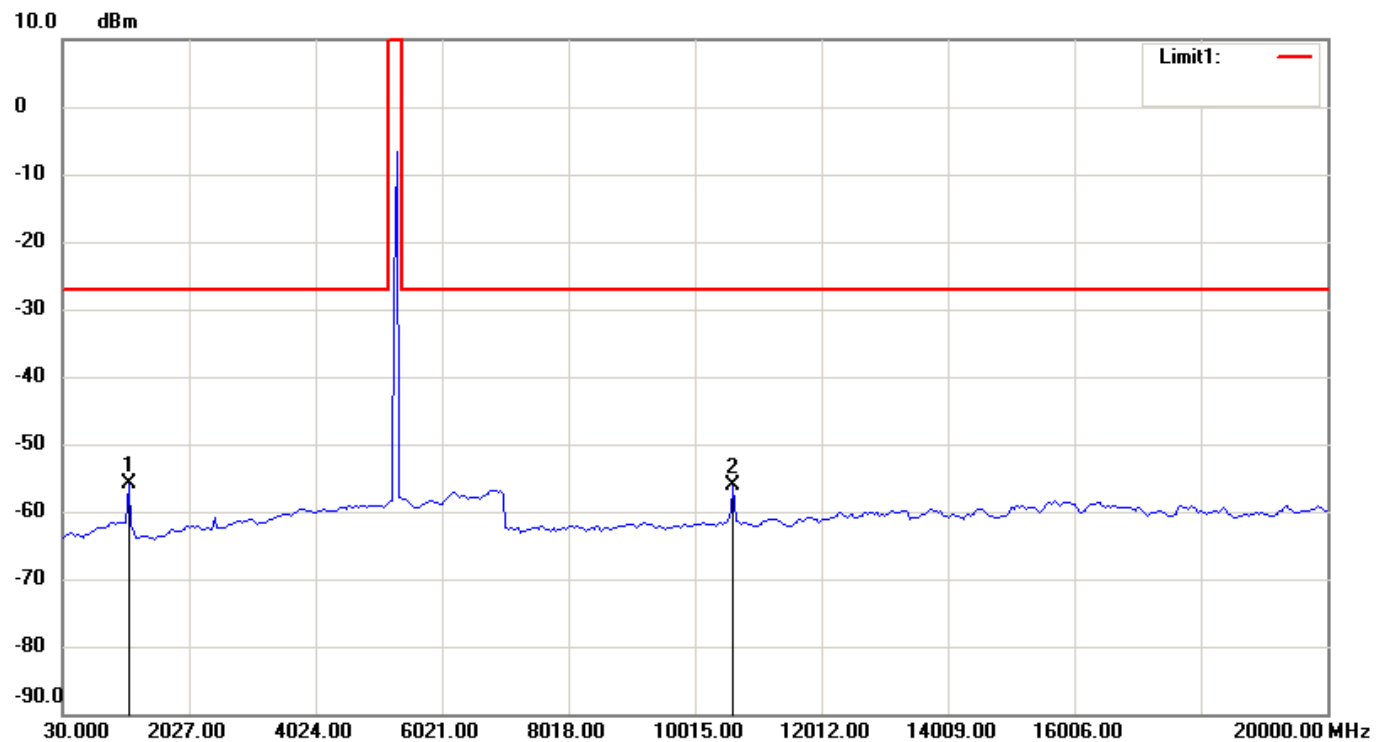
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#12

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a_Channel 60_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-55.82
2	10614.10000	-56.15

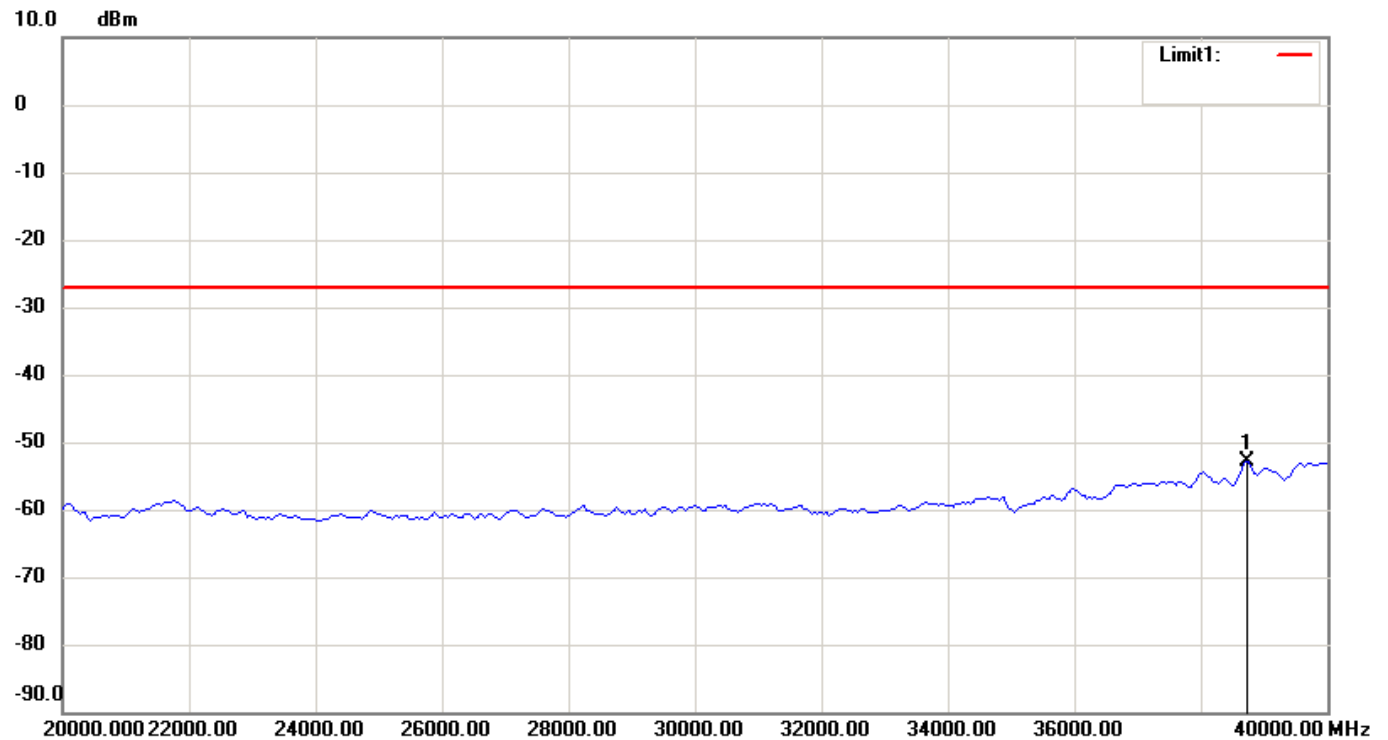
File: 20-10-MAS-019_5-3a_ANT1
 Site: RF-Cond01

#13

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11a_Channel 60_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-52.92

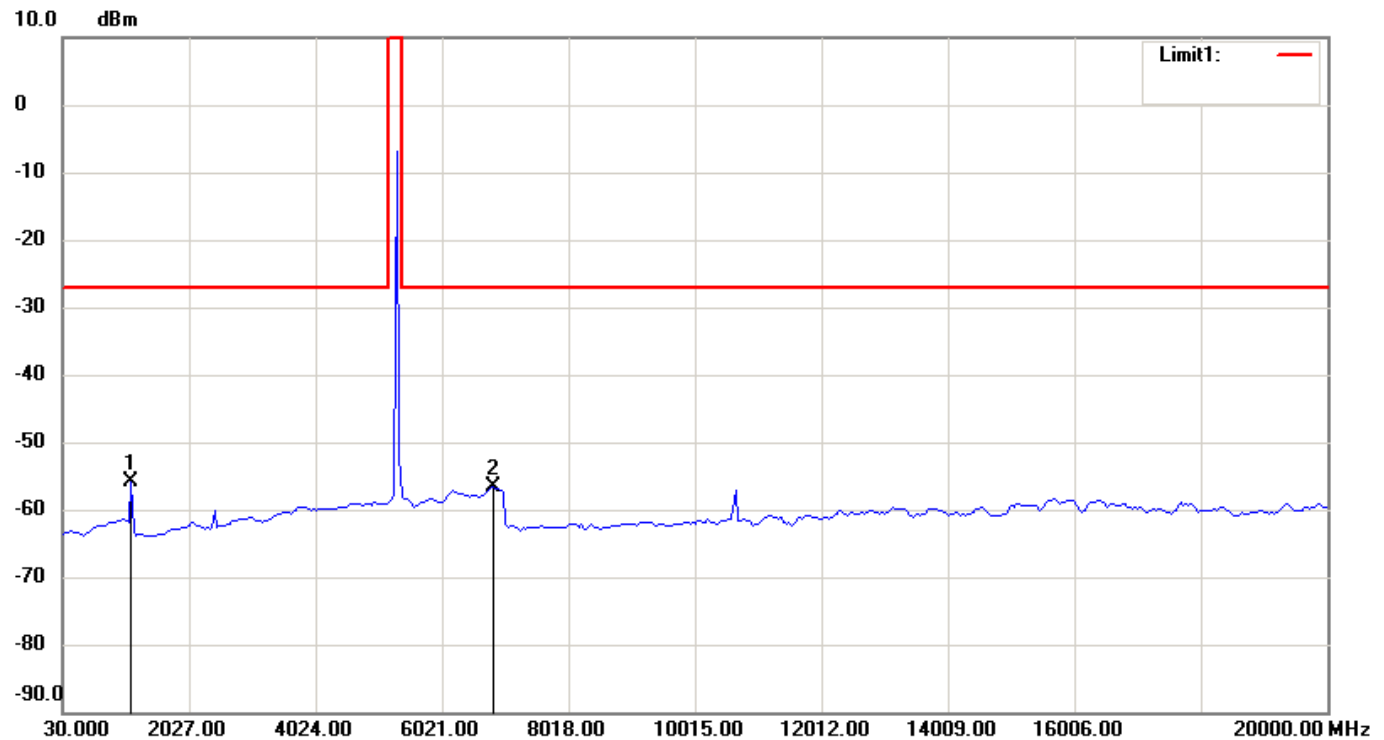
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#18

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a_Channel 64_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1108.38000	-55.88
2	6819.80000	-56.67

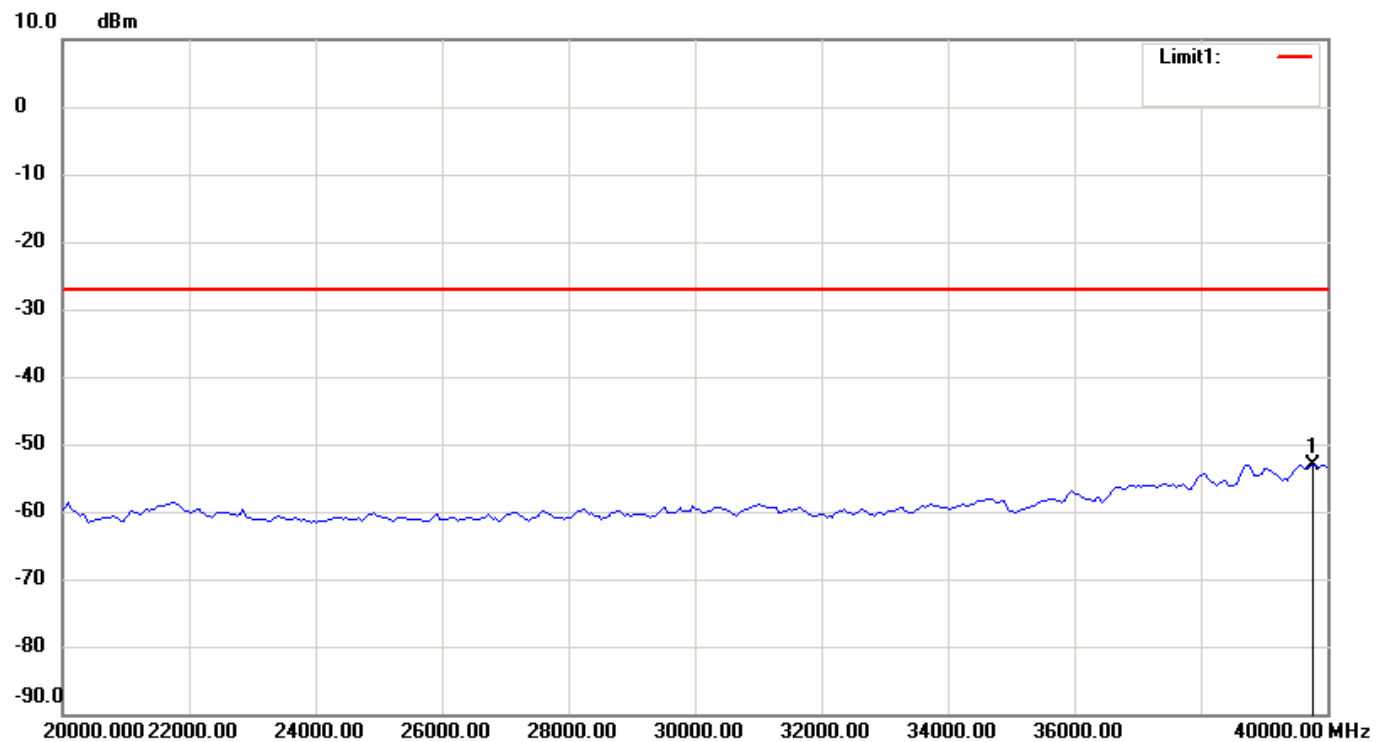
File: 20-10-MAS-019_5-3a_ANT1
 Site: RF-Cond01

#19

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11a_Channel 64_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	39760.00000	-53.00

9.4.2 調變技術: IEEE 802.11ax (20MHz)

9.4.2.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

註：1. 繪圖資料請參考第 156-161 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 40\text{GHz}$)

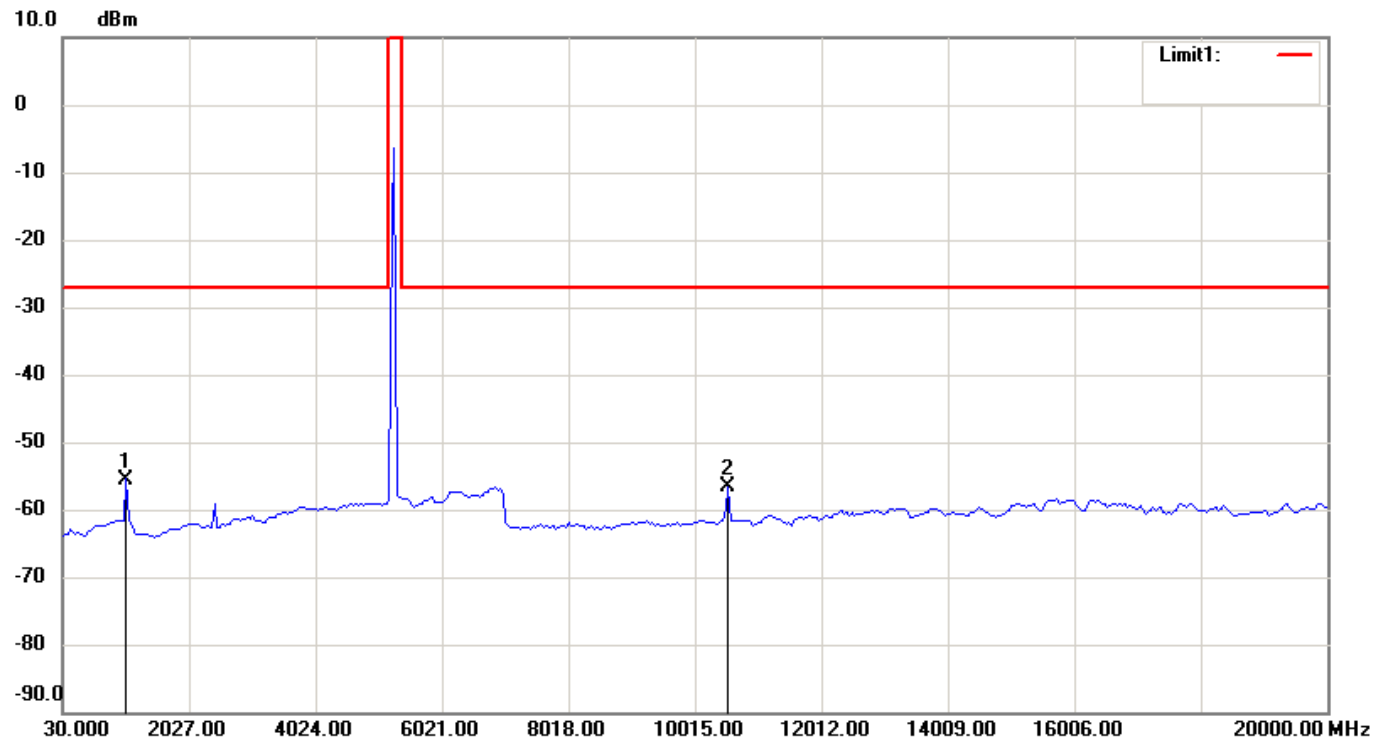
File: 20-10-MAS-019_5-3ax20_ANT1
 Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax20_Channel 52_Spurious-1

RF Conducted
 Sweep Time: 79.9ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1028.50000	-55.50
2	10534.22000	-56.56

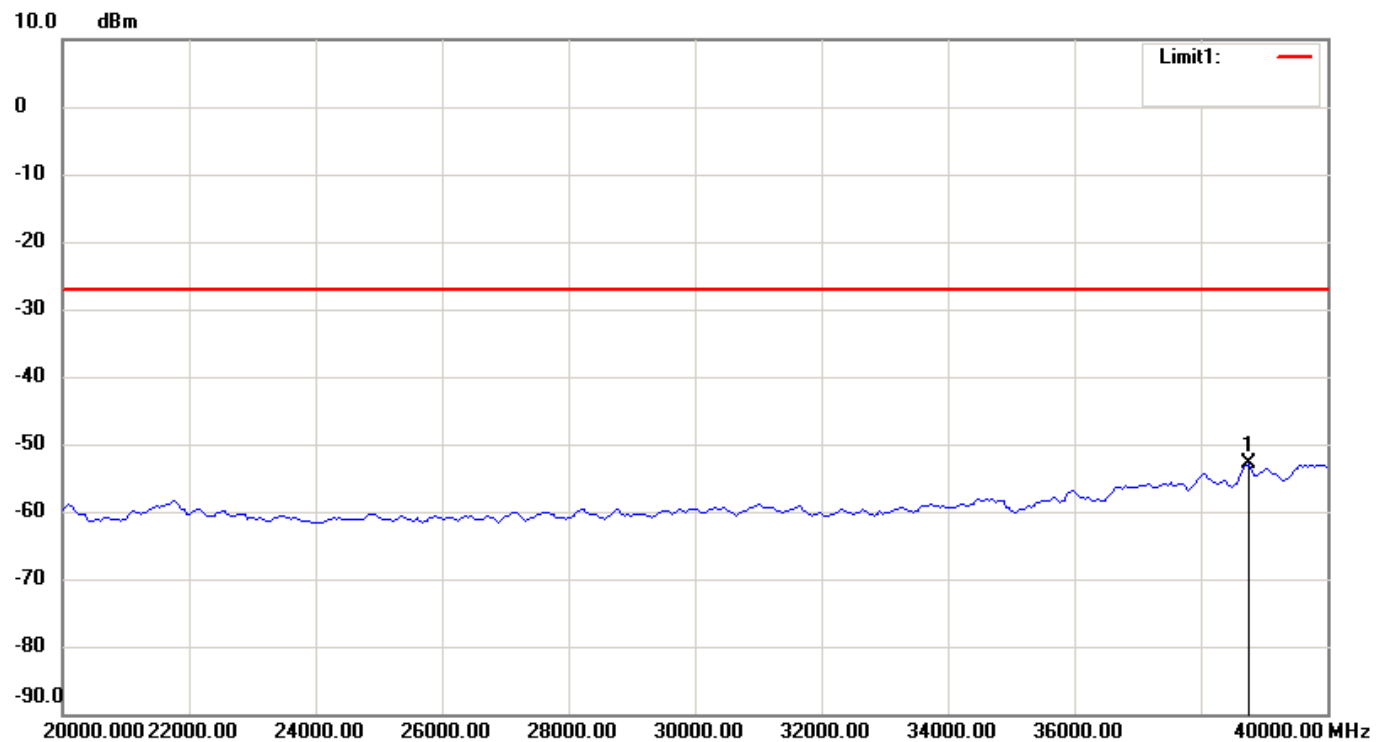
File: 20-10-MAS-019_5-3ax20_ANT1
Site: RF-Cond01

#6

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20_Channel 52_Spurious-2

RF Conducted
Sweep Time: 80ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38760.00000	-52.91

File: 20-10-MAS-019_5-3ax20_ANT1

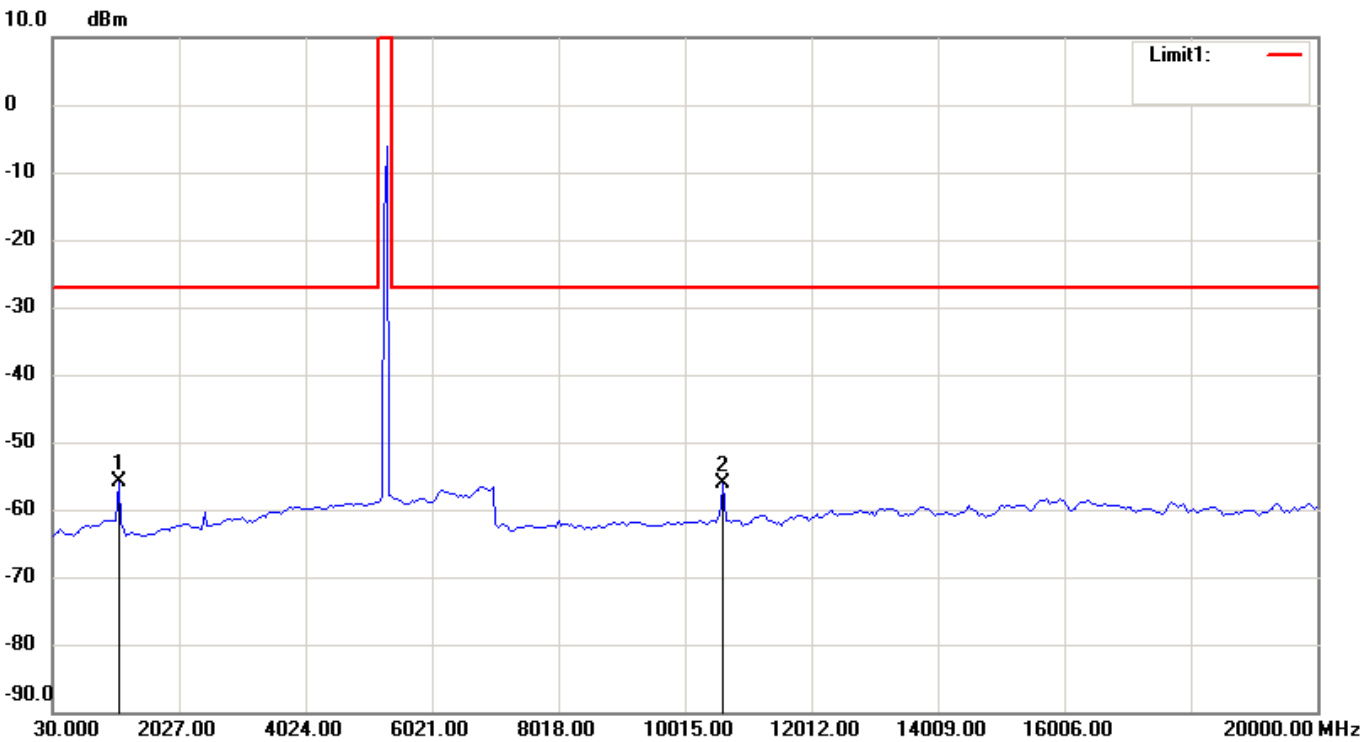
#12

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 60_Spurious-1

RF Conducted

Sweep Time: 79.9ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-55.77
2	10614.10000	-56.22

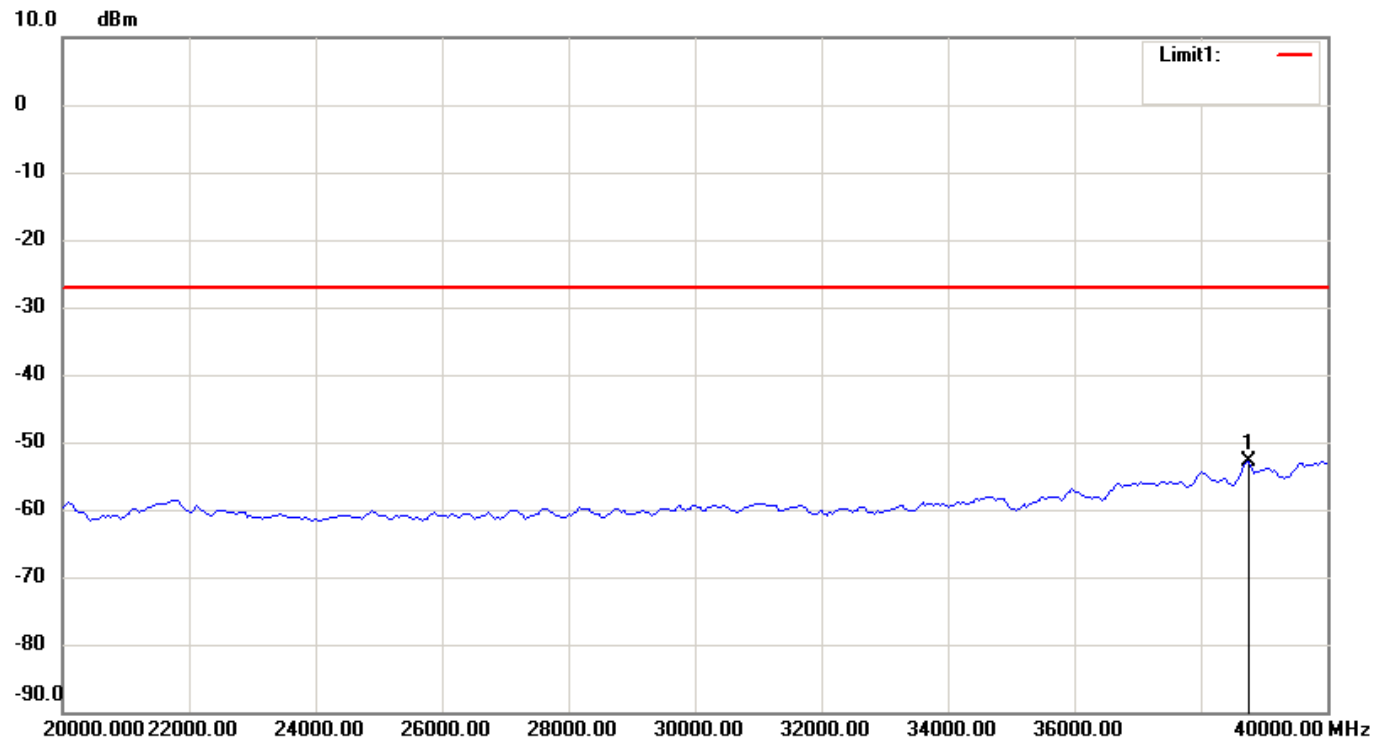
File: 20-10-MAS-019_5-3ax20_ANT1
Site: RF-Cond01

#13

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20_Channel 60_Spurious-2

RF Conducted
Sweep Time: 80ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38760.00000	-52.89

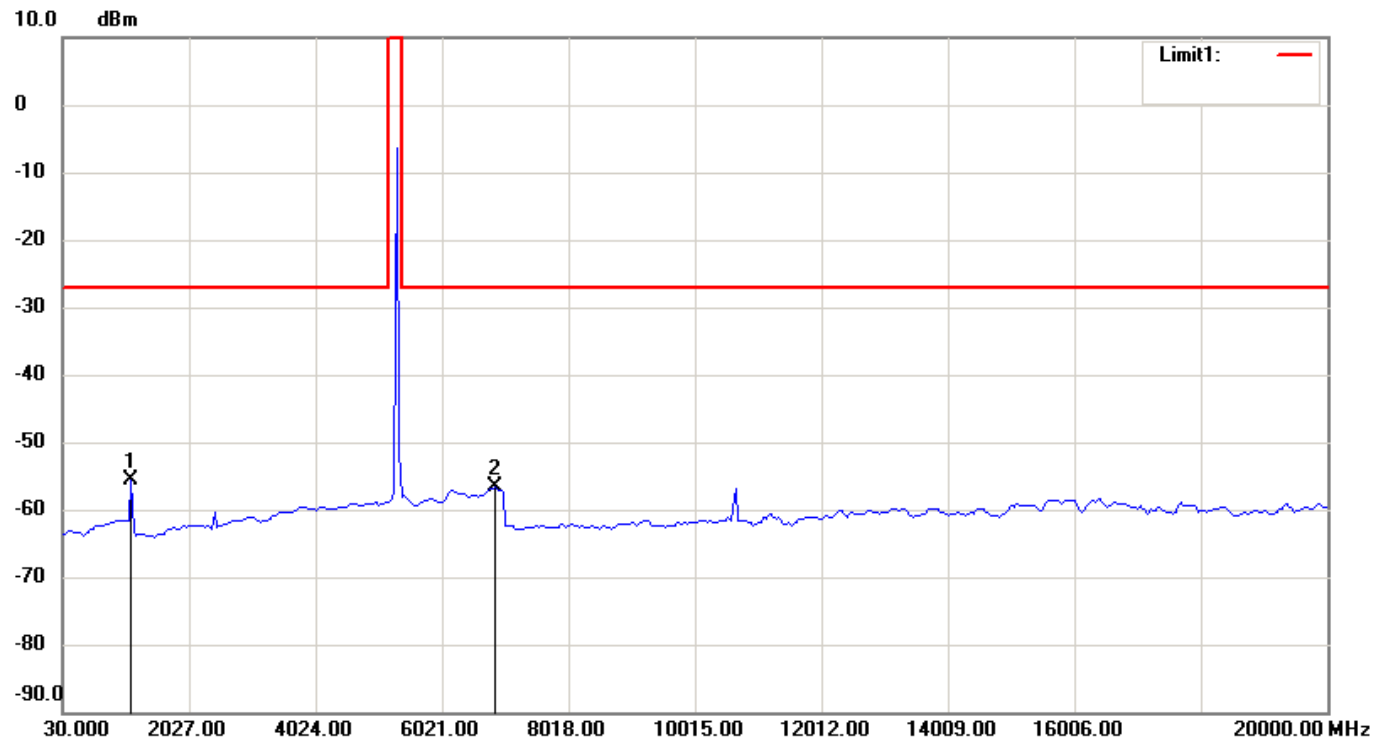
File: 20-10-MAS-019_5-3ax20_ANT1
Site: RF-Cond01

#18

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20_Channel 64_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1108.38000	-55.54
2	6859.74000	-56.73

File: 20-10-MAS-019_5-3ax20_ANT1

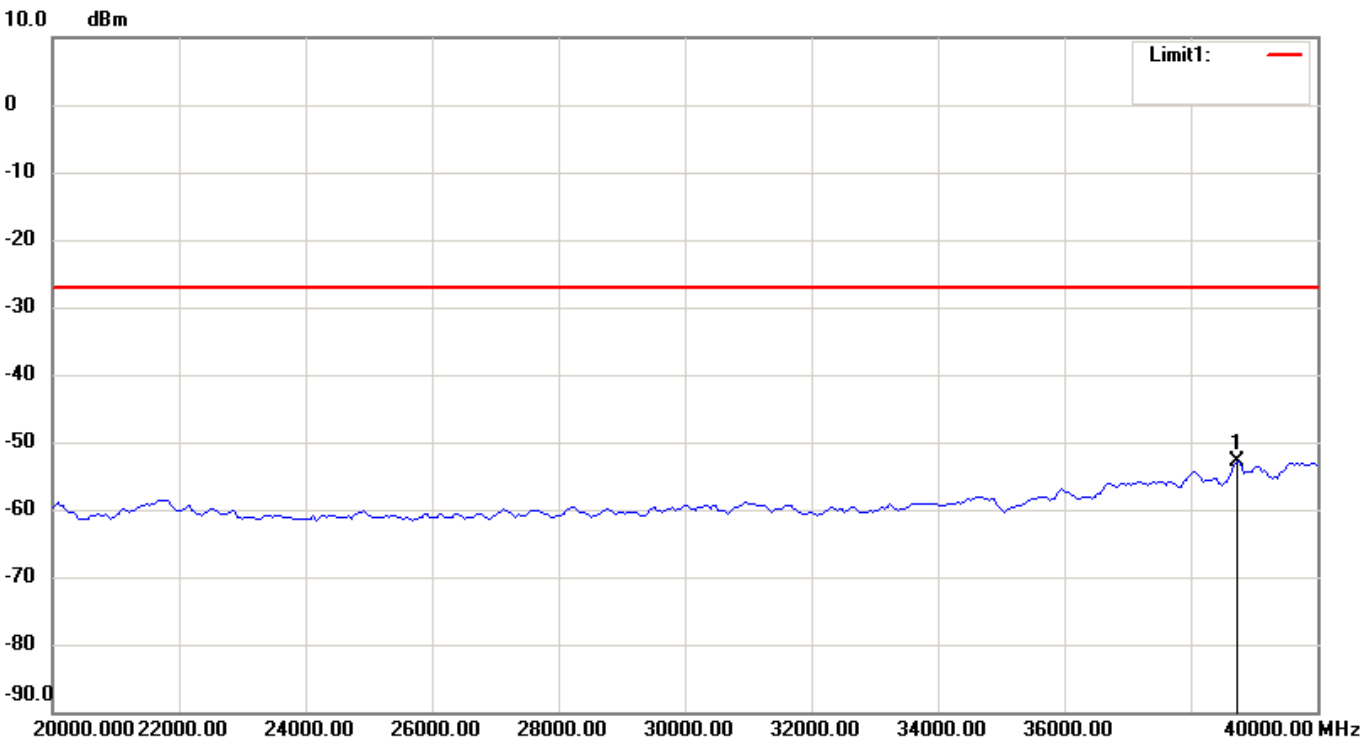
#19

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax20_Channel 64_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-52.81

9.4.2.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

註：1. 繪圖資料請參考第 163-168 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 40\text{GHz}$)

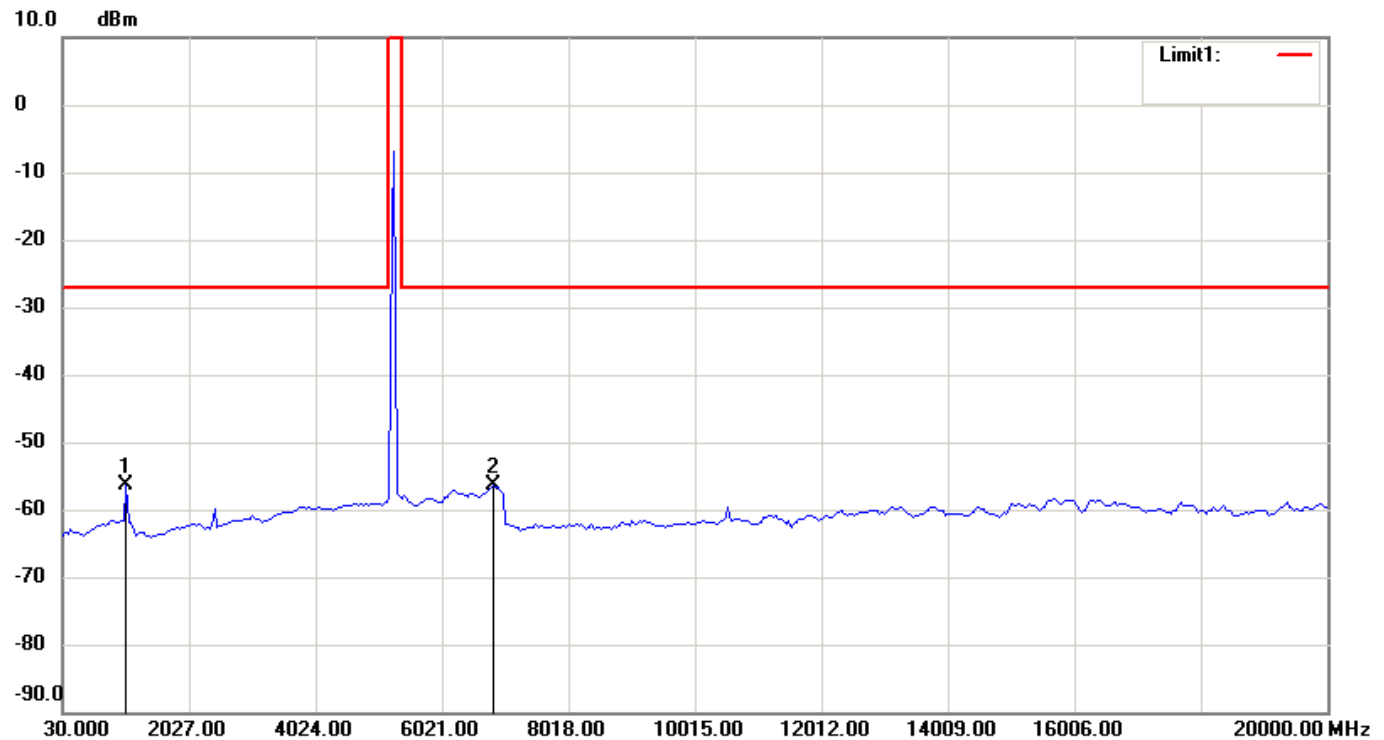
File: 20-10-MAS-019_5-3ax20_ANT2
Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20_Channel 52_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1028.50000	-56.39
2	6819.80000	-56.49

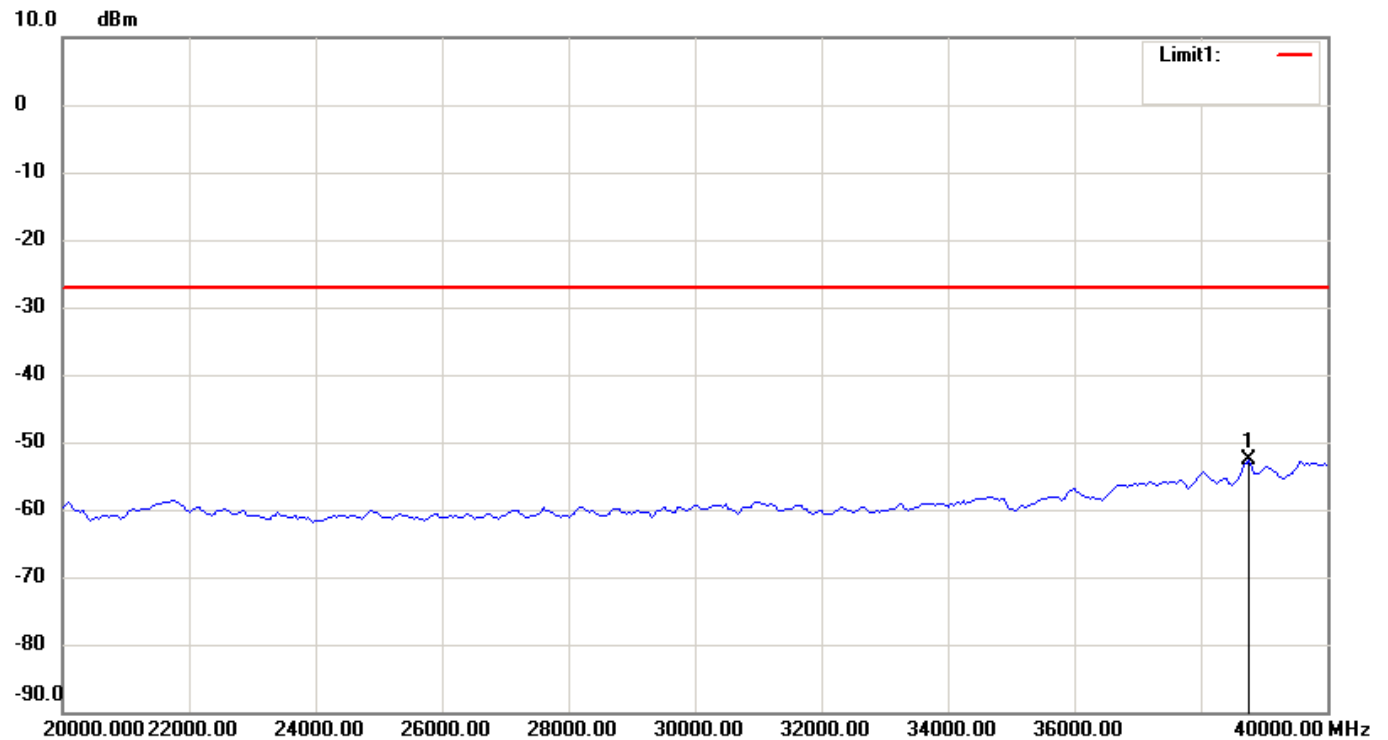
File: 20-10-MAS-019_5-3ax20_ANT2
 Site: RF-Cond01

#6

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax20_Channel 52_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38760.00000	-52.66

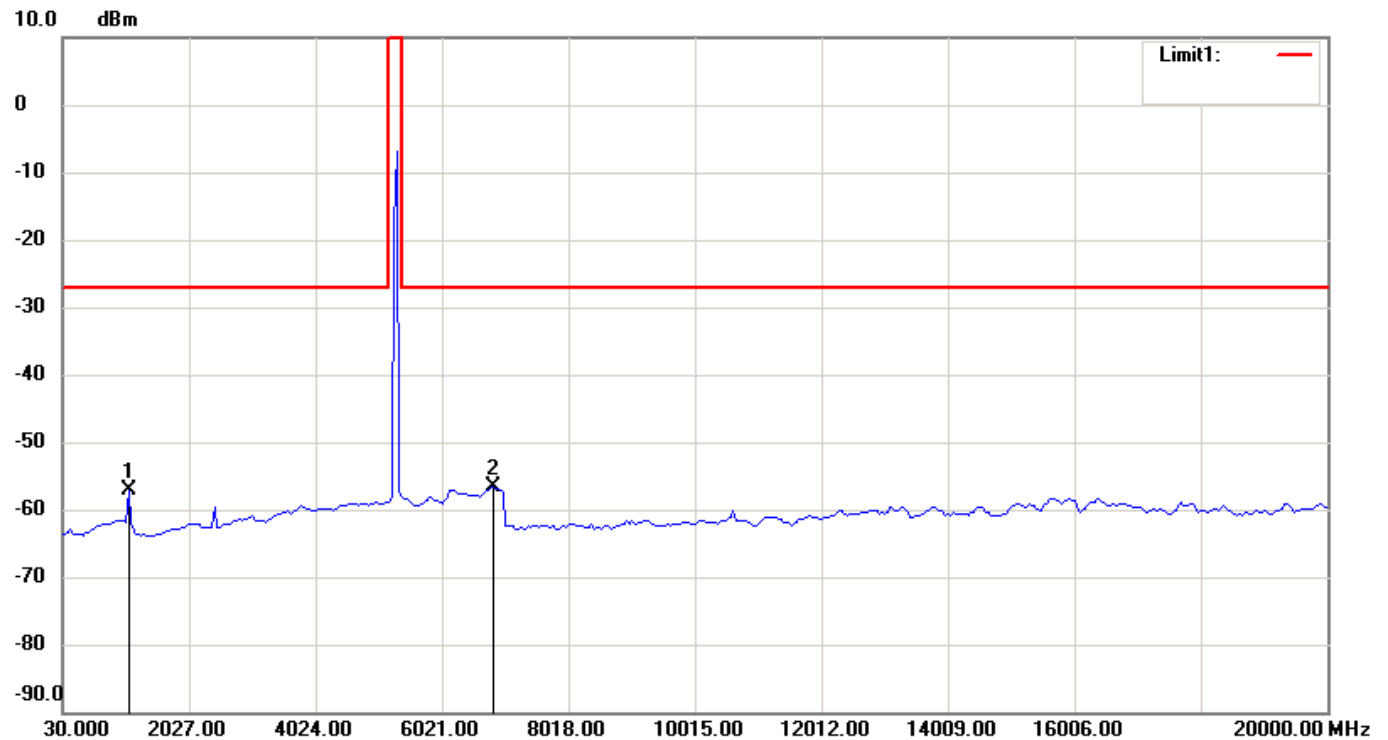
File: 20-10-MAS-019_5-3ax20_ANT2
Site: RF-Cond01

#12

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20_Channel 60_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-57.00
2	6819.80000	-56.62

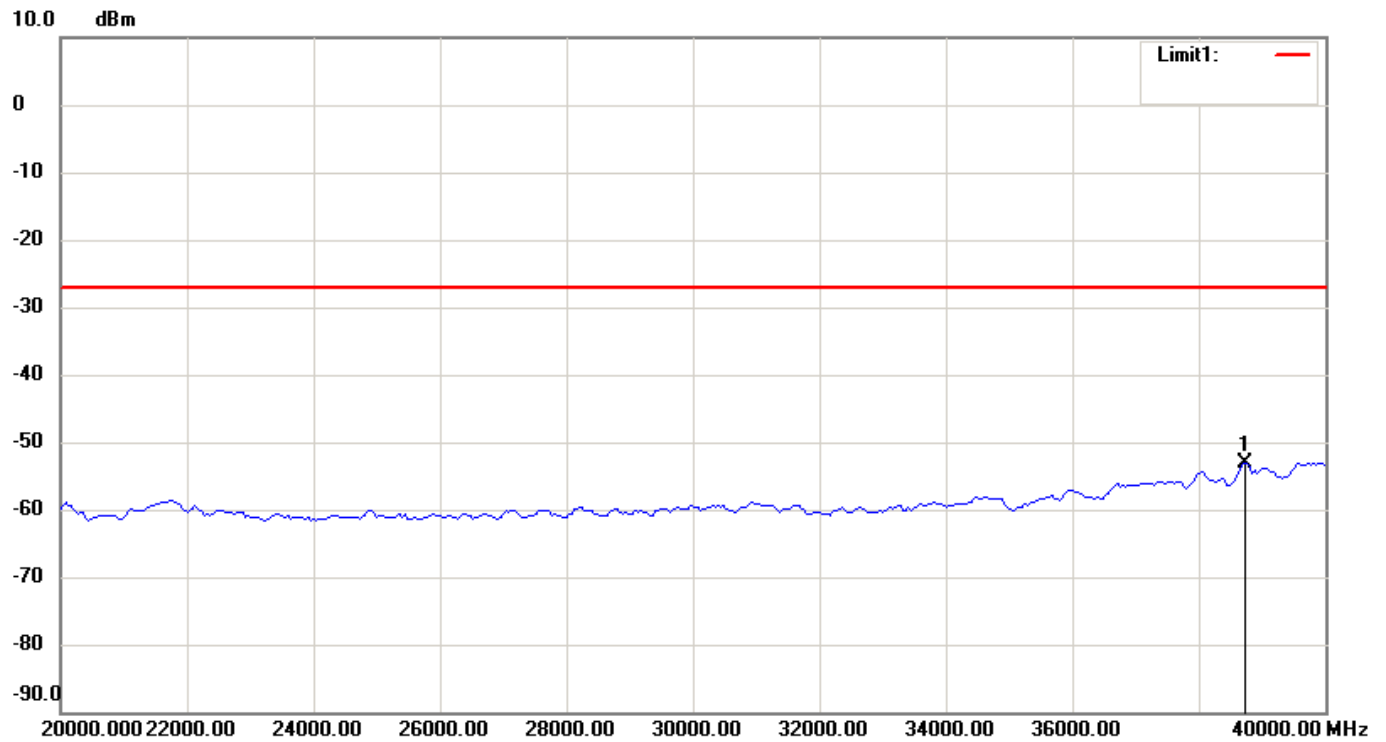
File: 20-10-MAS-019_5-3ax20_ANT2
 Site: RF-Cond01

#13

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax20_Channel 60_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-53.05

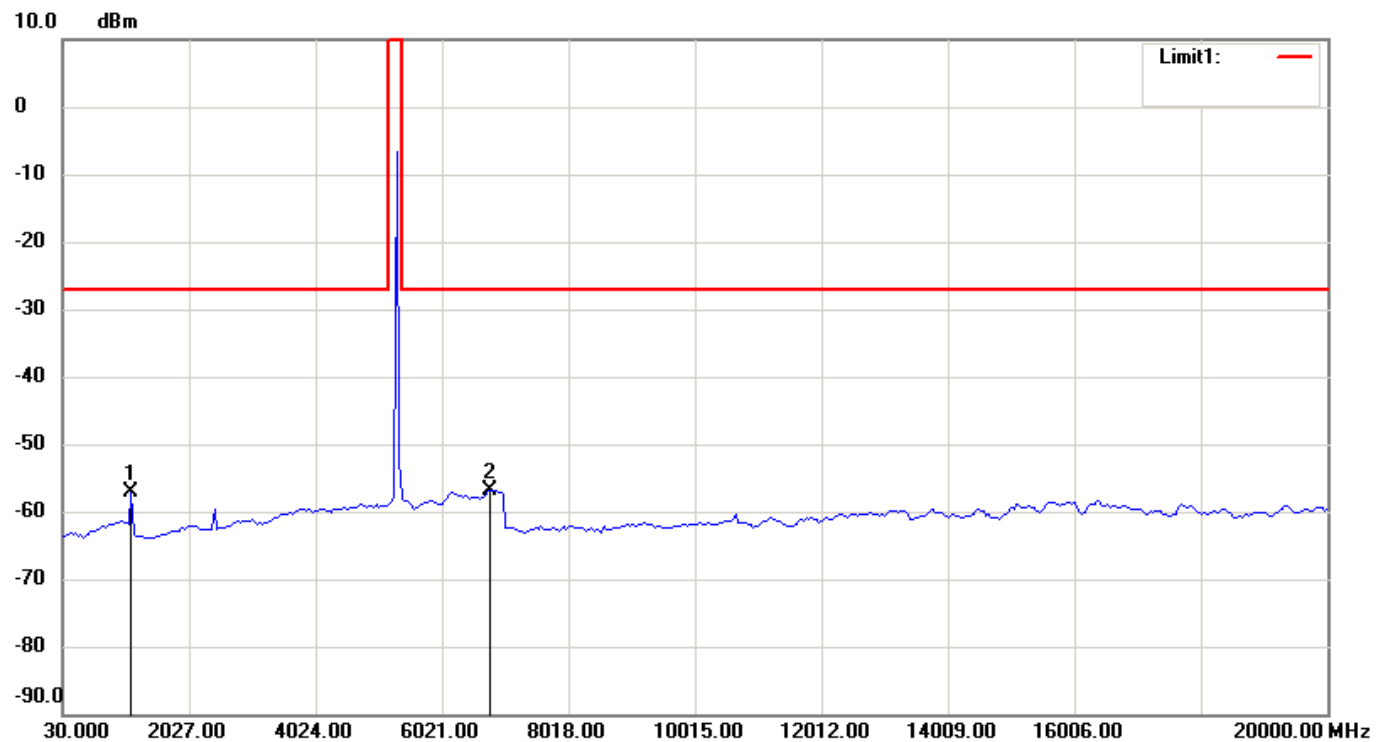
File: 20-10-MAS-019_5-3ax20_ANT2
Site: RF-Cond01

#18

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20_Channel 64_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1108.38000	-57.19
2	6779.86000	-56.76

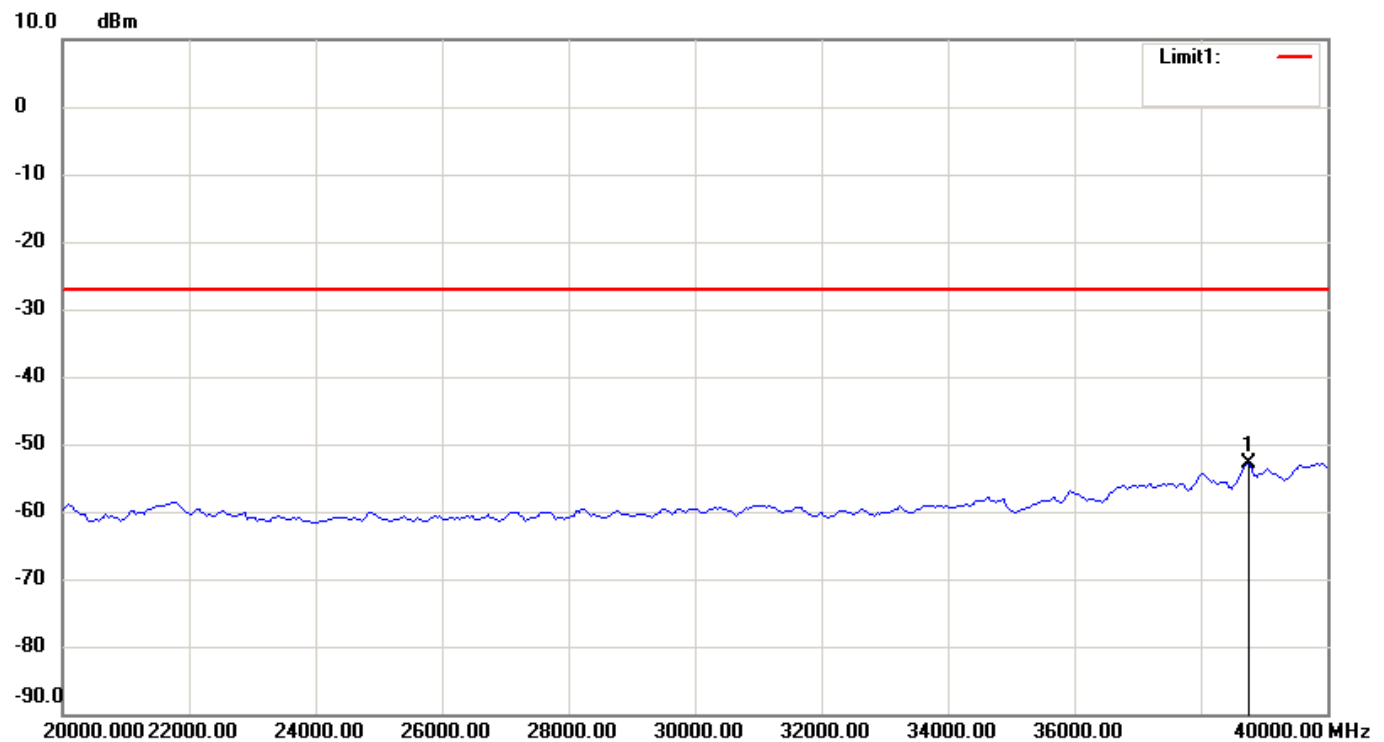
File: 20-10-MAS-019_5-3ax20_ANT2
 Site: RF-Cond01

#19

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax20_Channel 64_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38760.00000	-52.80

9.4.3 調變技術: IEEE 802.11ax (40MHz)

9.4.3.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

註: 1. 繪圖資料請參考第 170-173 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 40\text{GHz}$)

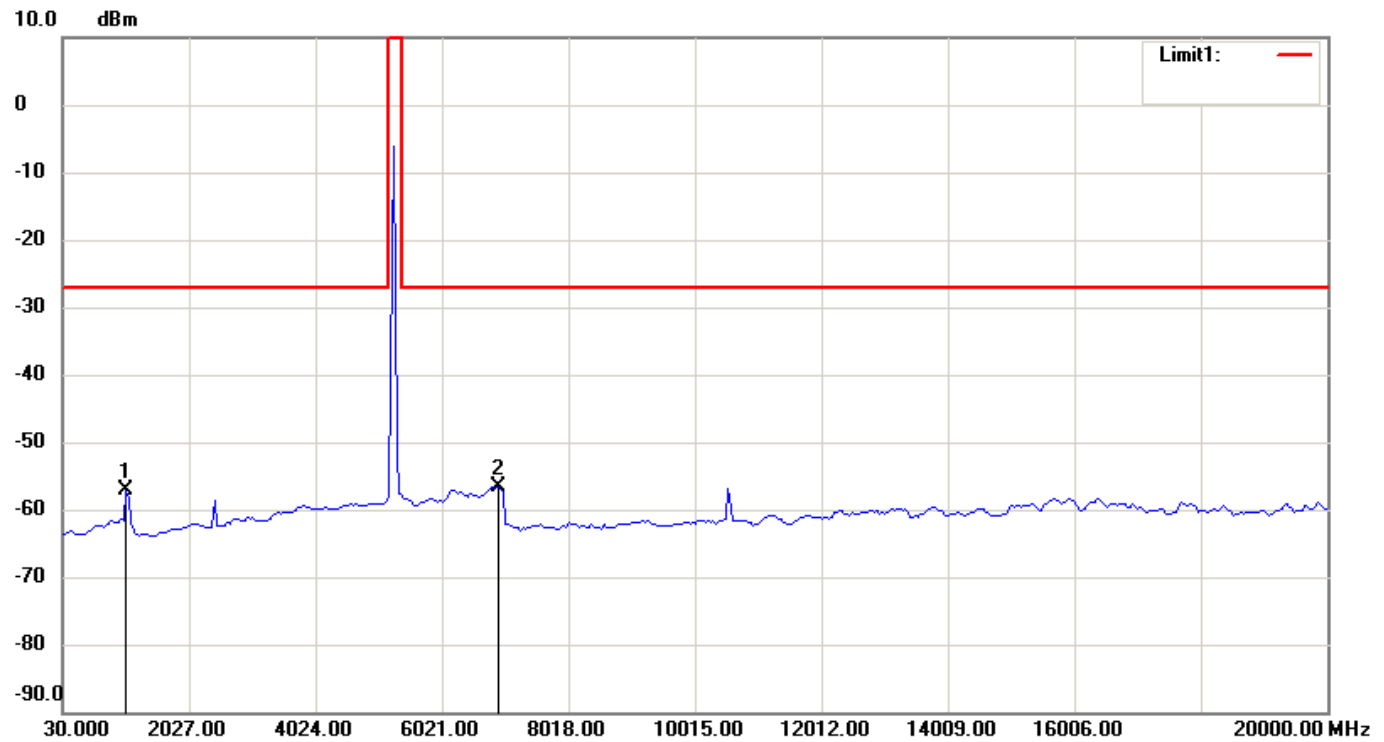
File: 20-10-MAS-019_5-3ax40_ANT1
Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40_Channel 54_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1028.50000	-57.03
2	6899.68000	-56.73

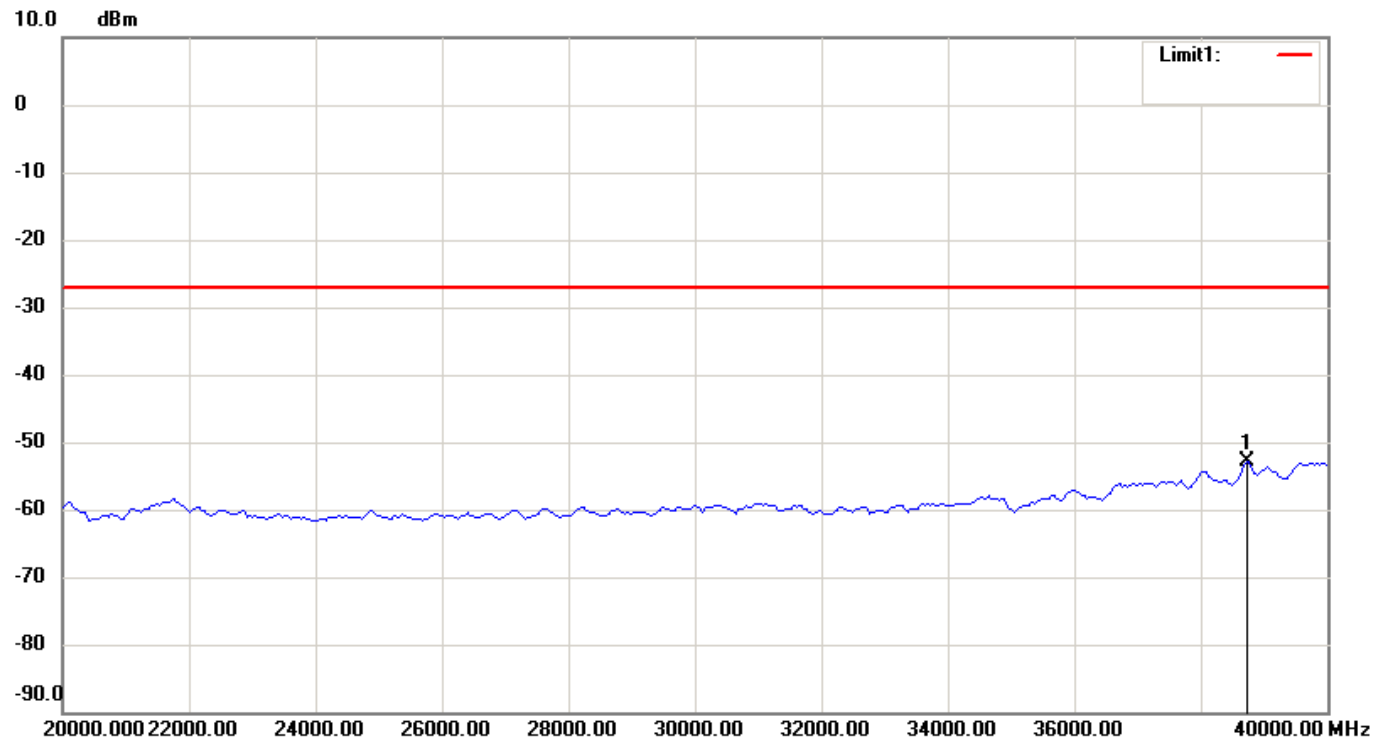
File: 20-10-MAS-019_5-3ax40_ANT1
 Site: RF-Cond01

#6

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax40_Channel 54_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-52.90

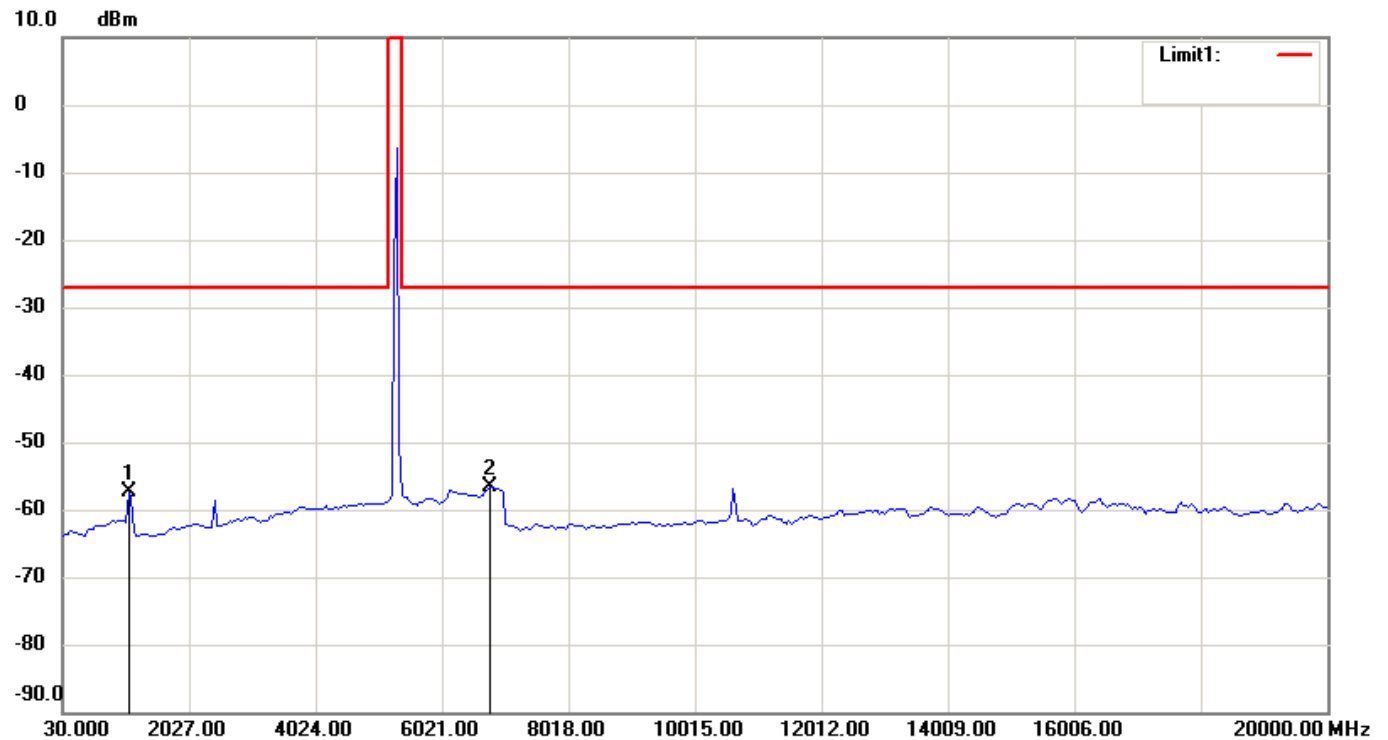
File: 20-10-MAS-019_5-3ax40_ANT1
Site: RF-Cond01

#12

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40_Channel 62_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-57.38
2	6779.86000	-56.68

File: 20-10-MAS-019_5-3ax40_ANT1

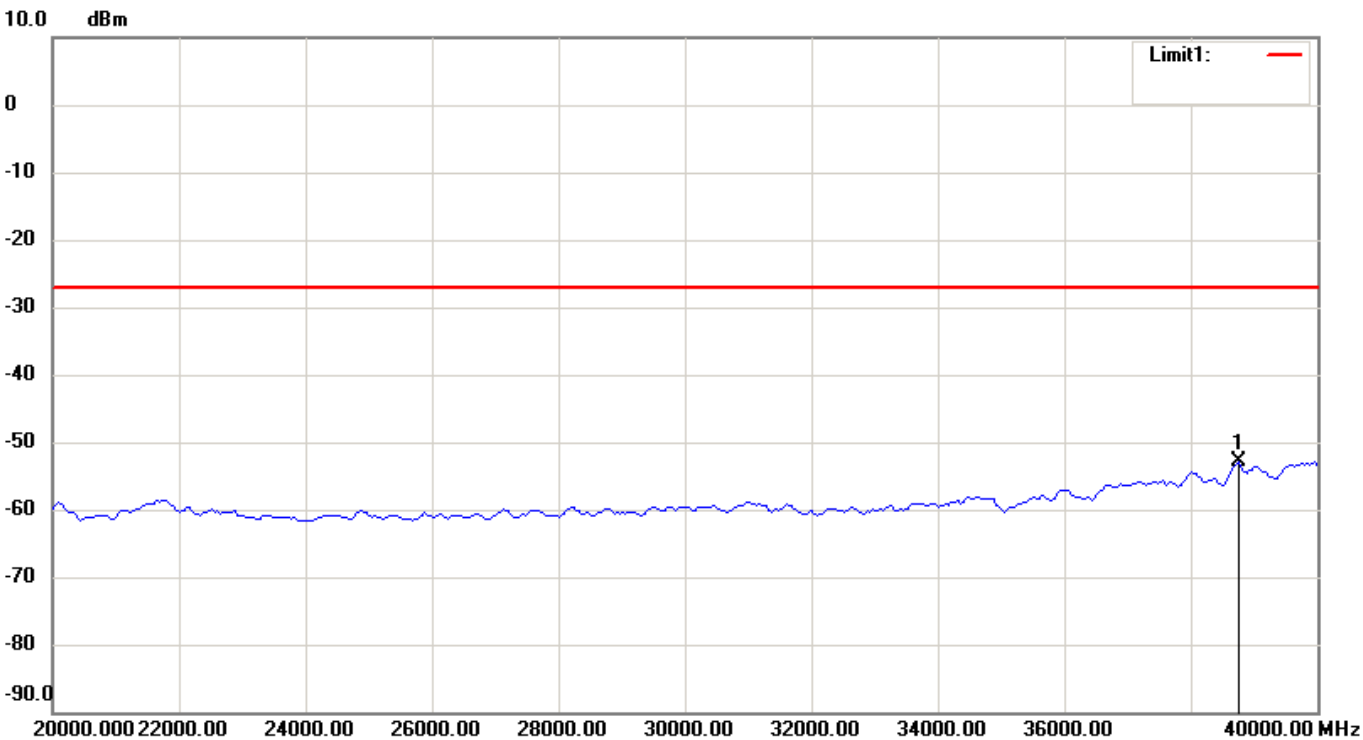
#13

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax40_Channel 62_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	38760.00000	-52.84

9.4.3.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

註：1. 繪圖資料請參考第 175-178 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 40\text{GHz}$)

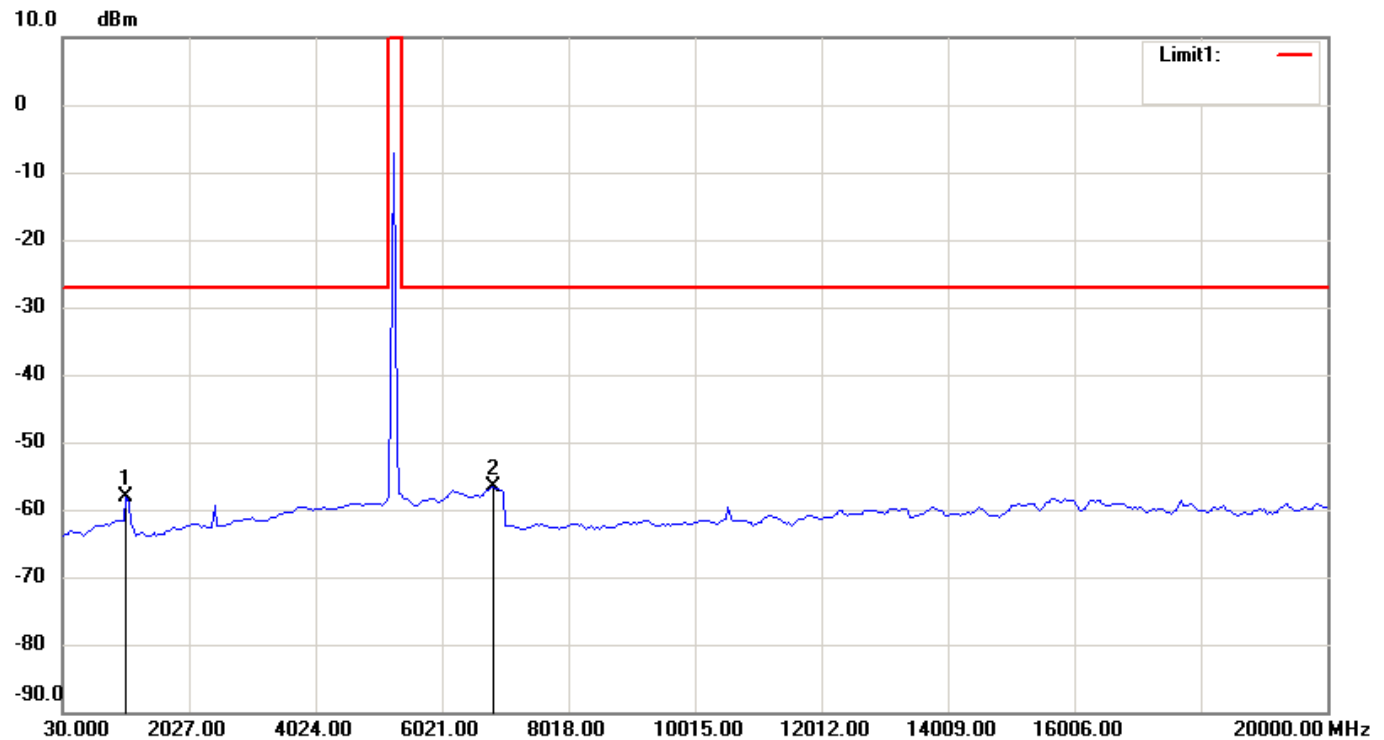
File: 20-10-MAS-019_5-3ax40_ANT2
Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40_Channel 54_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1028.50000	-58.09
2	6819.80000	-56.74

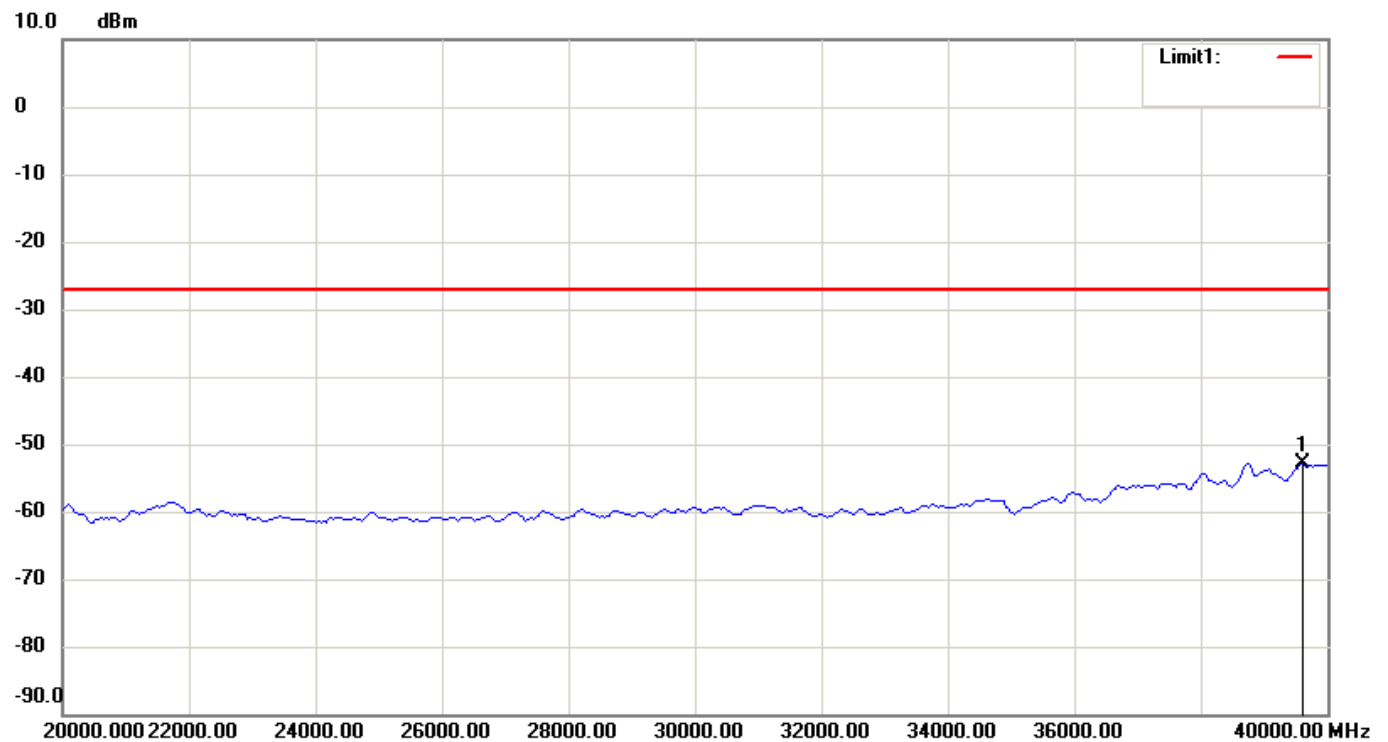
File: 20-10-MAS-019_5-3ax40_ANT2
 Site: RF-Cond01

#6

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax40_Channel 54_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	39600.00000	-52.81

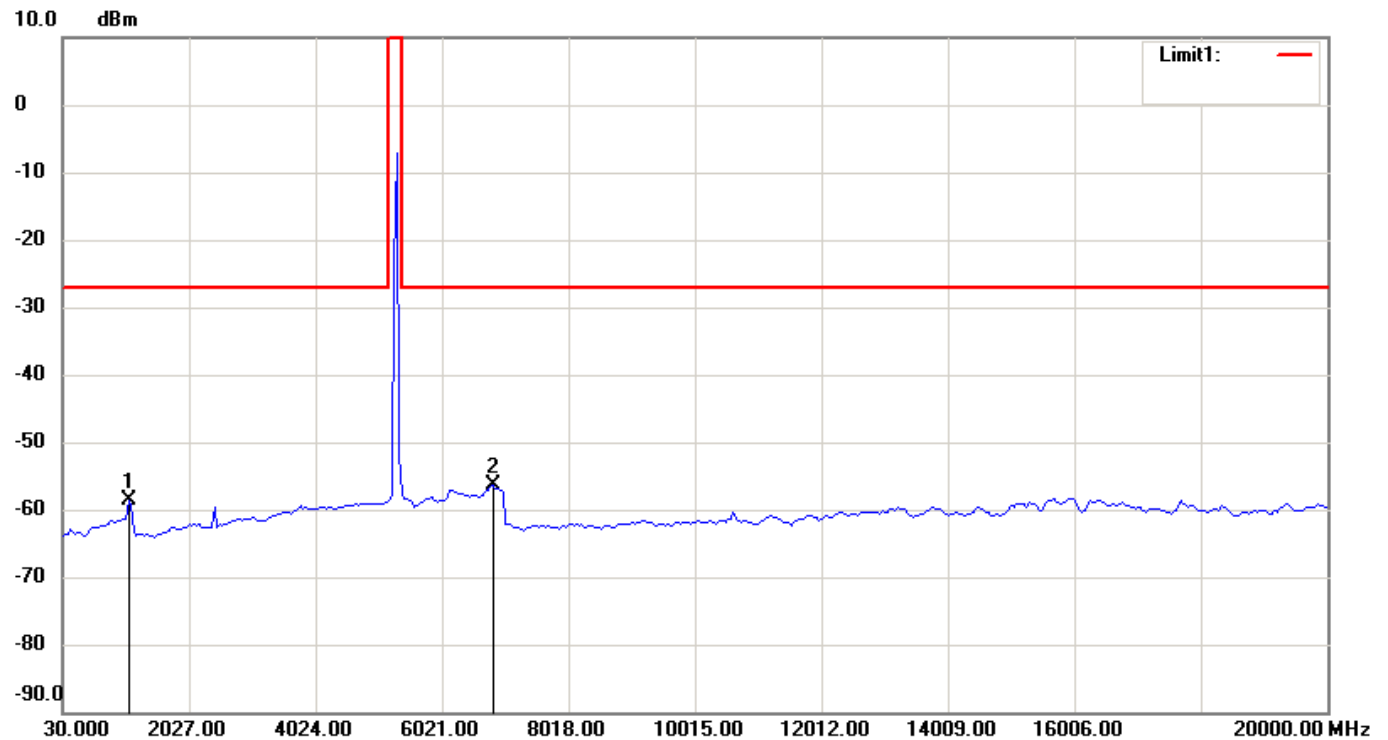
File: 20-10-MAS-019_5-3ax40_ANT2
 Site: RF-Cond01

#12

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax40_Channel 62_Spurious-1

RF Conducted
 Sweep Time: 79.9ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-58.51
2	6819.80000	-56.46

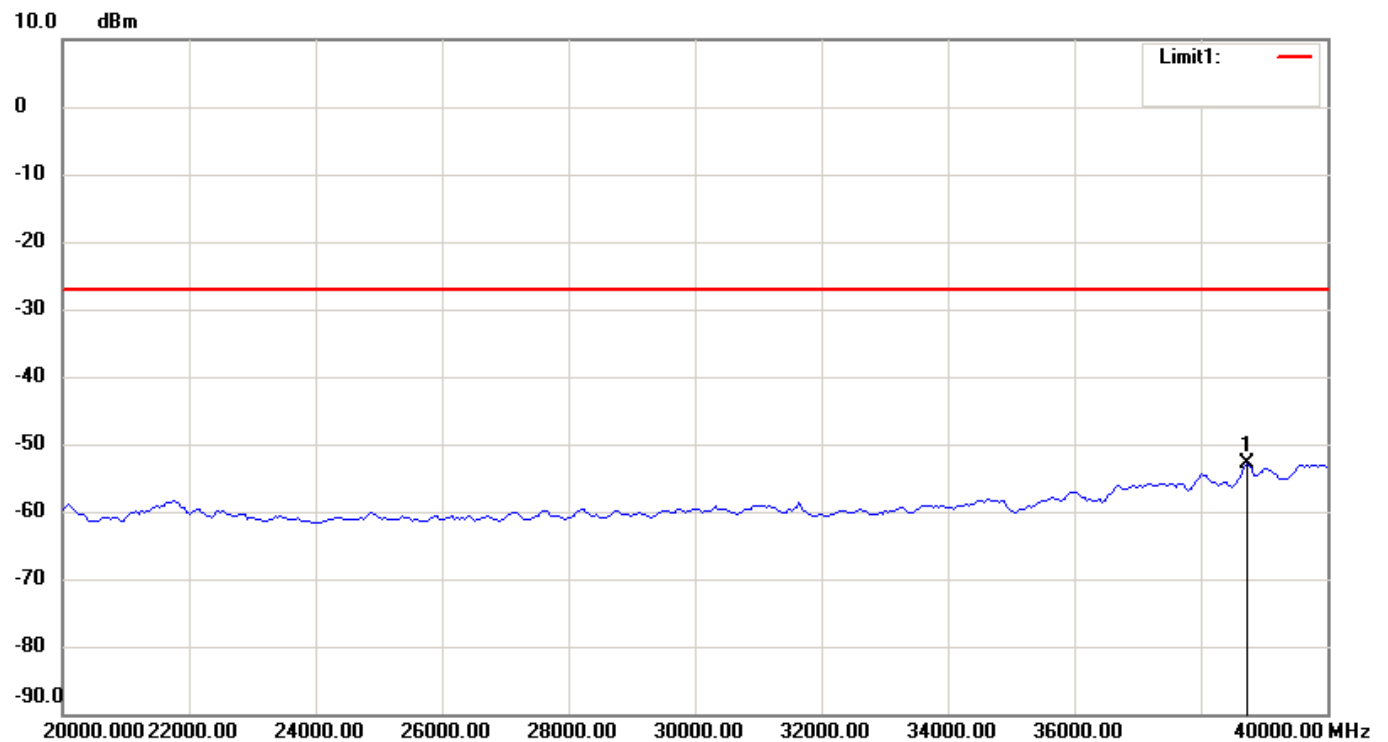
File: 20-10-MAS-019_5-3ax40_ANT2
Site: RF-Cond01

#13

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40_Channel 62_Spurious-2

RF Conducted
Sweep Time: 80ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-52.95

9.4.4 調變技術: IEEE 802.11ax (80MHz)

9.4.4.1 CHAIN 0

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

註：1. 繪圖資料請參考第 180-181 頁。

2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 40\text{GHz}$)

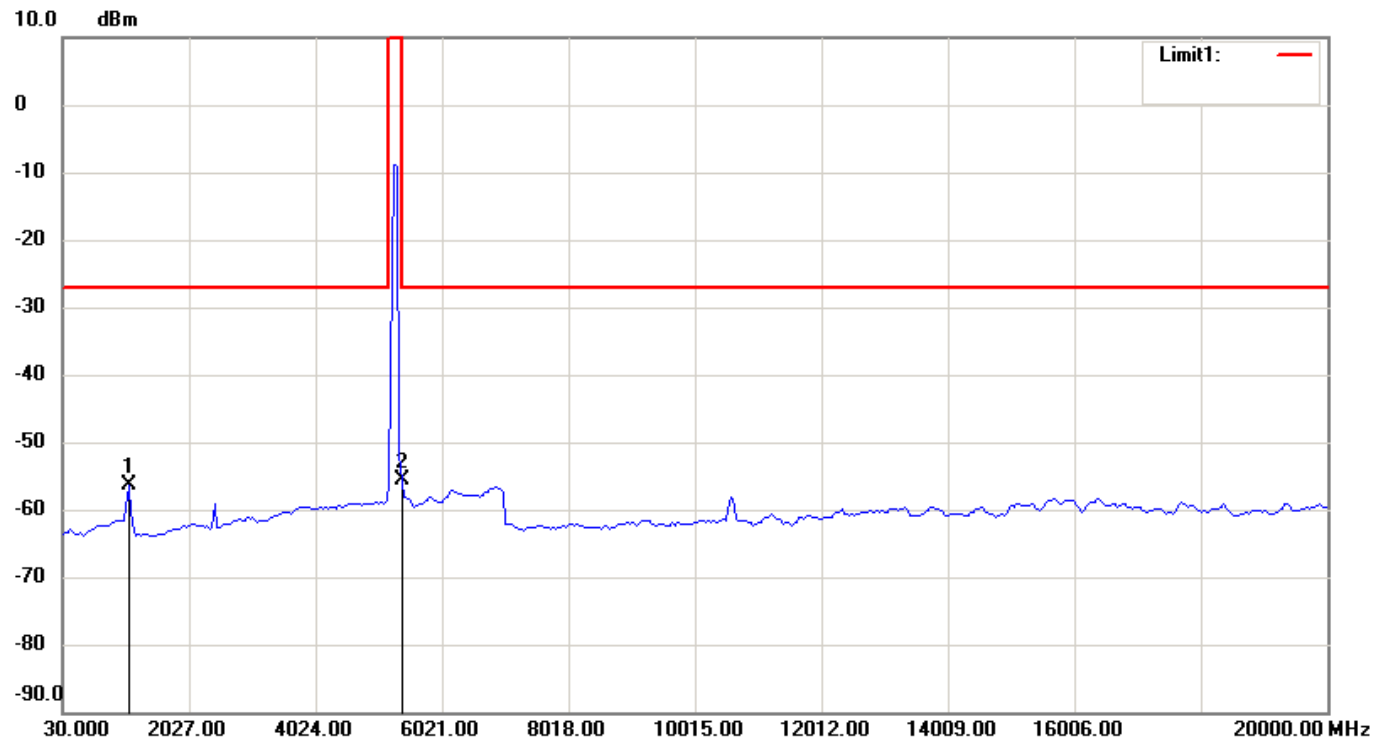
File: 20-10-MAS-019_5-3ax80_ANT1
Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax80_Channel 58_Spurious-1

RF Conducted
Sweep Time: 79.9ms Att.: 15dB
RBW: 1000 KHz VBW: 1000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-56.30
2	5381.96000	-55.61

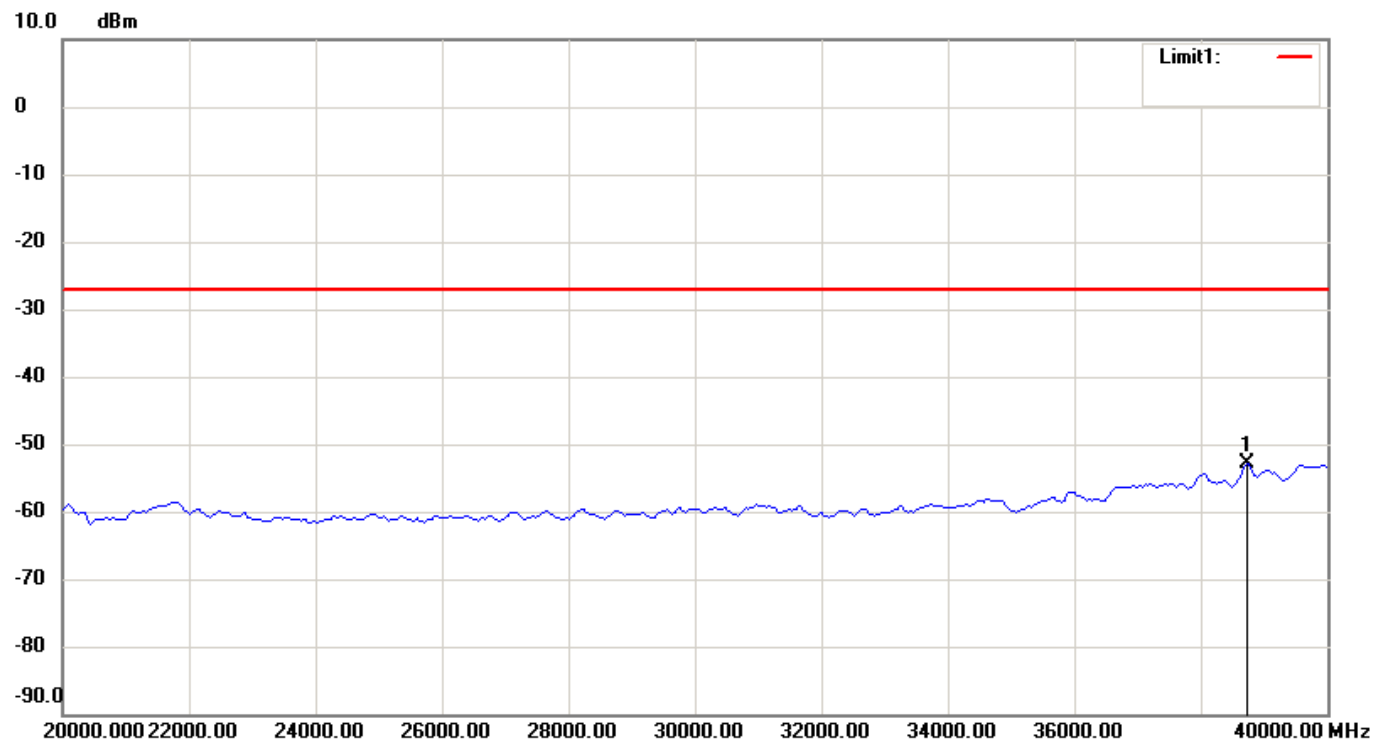
File: 20-10-MAS-019_5-3ax80_ANT1
 Site: RF-Cond01

#6

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax80_Channel 58_Spurious-2

RF Conducted
 Sweep Time: 80ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	38720.00000	-52.76

9.4.4.2 CHAIN 1

測試日期: Oct. 30, 2020

環境溫度: 24°C

環境濕度: 51%

- 註：1. 繪圖資料請參考第 183-184 頁。
2. 量測不準確度: $\pm 1.5\text{dB}$ ($1\text{GHz} \leq f \leq 40\text{GHz}$)

9.5 結果判定

混附波之發射皆低於限值，符合標準規定。

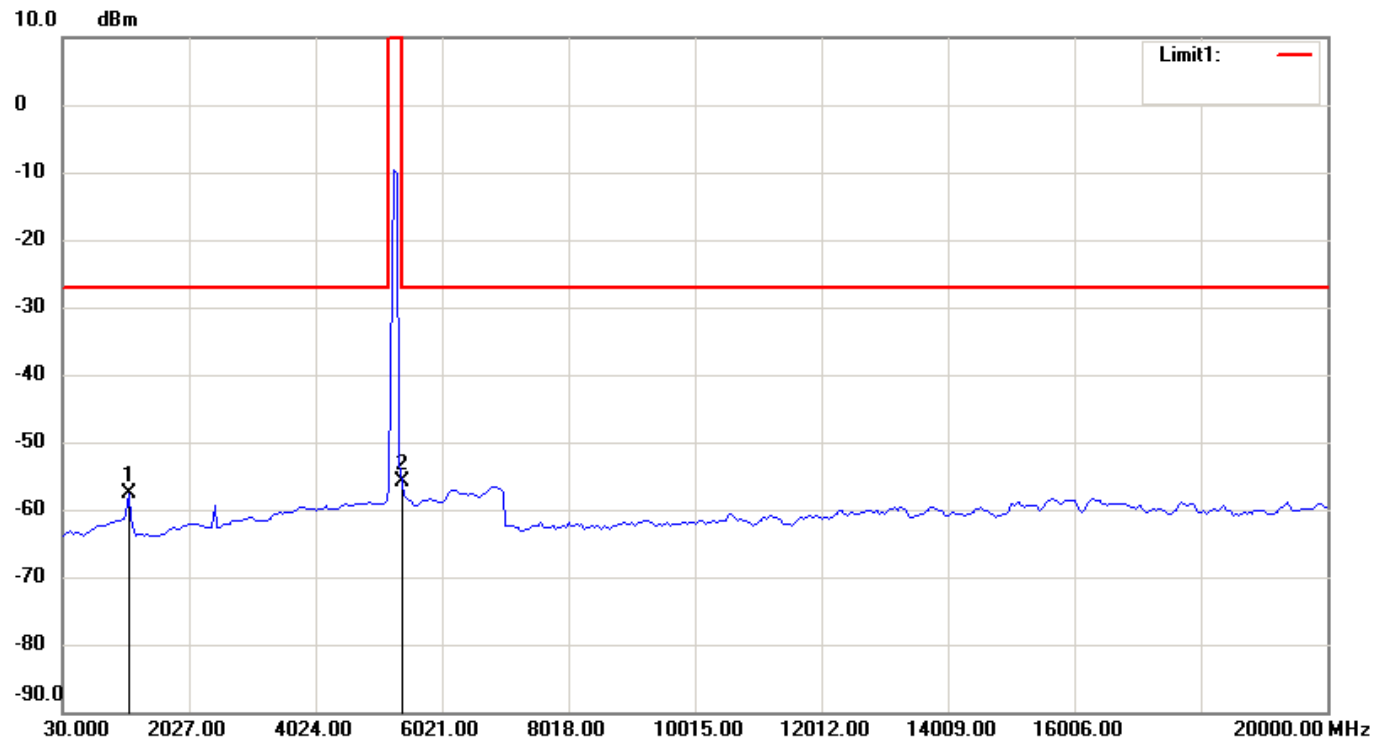
File: 20-10-MAS-019_5-3ax80_ANT2
 Site: RF-Cond01

#5

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax80_Channel 58_Spurious-1

RF Conducted
 Sweep Time: 79.9ms Att.: 15dB
 RBW: 1000 KHz VBW: 1000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	1068.44000	-57.65
2	5381.96000	-55.96

File: 20-10-MAS-019_5-3ax80_ANT2

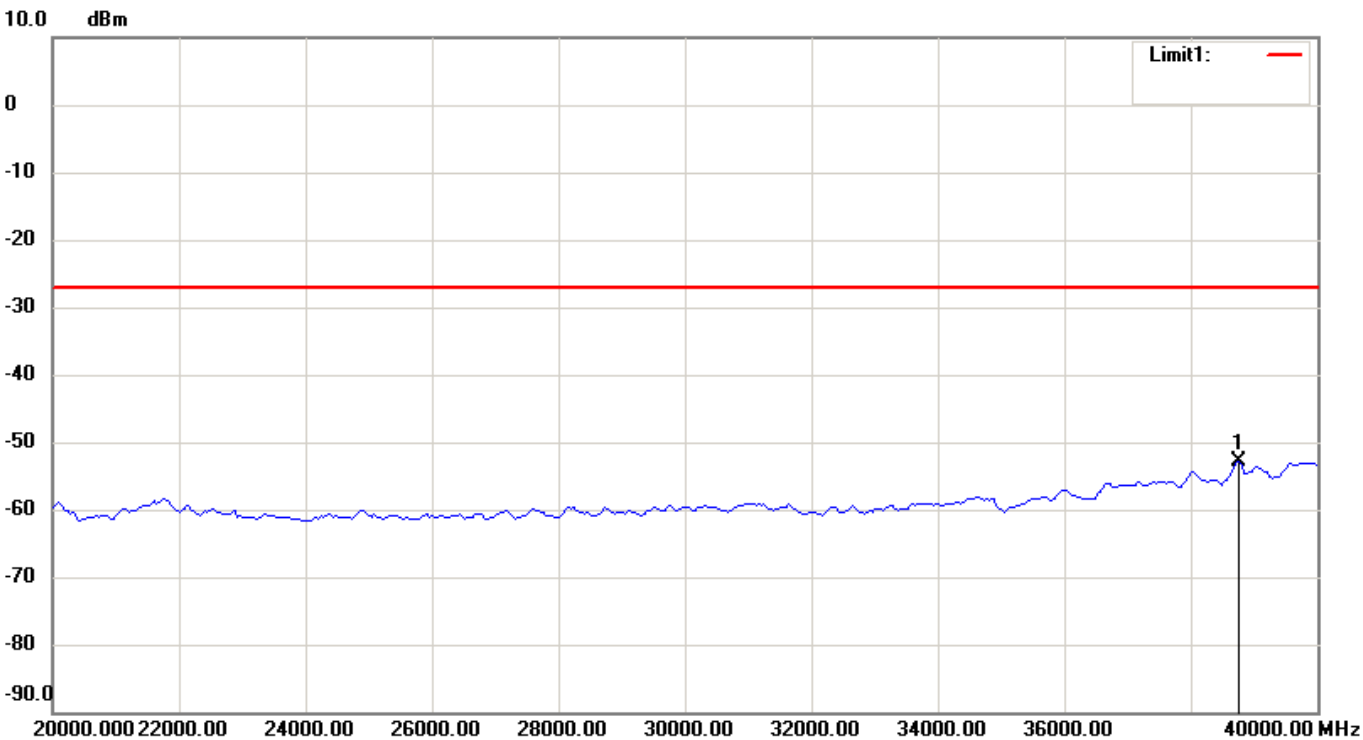
#6

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Note: NCC_LP0002_802.11ax80_Channel 58_Spurious-2

RF Conducted

Sweep Time: 80ms

RBW: 1000 KHz

Operator:

Att.: 15dB

VBW: 1000 KHz

Phillip

No.	Frequency(MHz)	Level(dBm)
1	38760.00000	-52.87

10 場強輻射之量測

10.1 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.5節之規定，在 1GHz 以下的非必要之發射，應符合第 3.6節之規定，任何使用交流市電為供應電之設備亦須符合第 3.3節之電源線傳導限制值。

依據國家通訊傳播委員會低功率射頻器材技術規範5.7.4.6節之規定，不必要發射頻率屬 3.5節規定頻段者，應符合 3.6節之規定。

10.2 量測方法

將待測物置於非金屬桌面，使其在測試模式狀態，且設定為高、中、低各頻道產生最高最大傳導輸出功率的傳輸速率，接收天線置於3米外，且桌面要360度旋轉，另外接收天線也要從1米至4米升降變化，接收天線置於水平、垂直極向各執行測試一次。待測物若為手持式則分別要以三軸相放置，並分別測試以找出最大輻射電場強度。

10.3 量測場強輻射之儀器

(1)量測儀器

儀器名稱	製造者	型號
EMI Receiver	R&S	ESCI
Spectrum Analyzer	R&S	FSU46
Horn Aantenna	EMCO	3117
Horn Aantenna	EMCO	3116
PRE-Amplifier	Agilent	8449B
PRE-Amplifier	Agilent	8447D
BiLog Aantenna	ETC	MCTD 2786
PRE-Amplifier	Agilent	83051A
Spectrum Analyzer	R&S	FSV

測試軟體: LZ-RF (Ver. ETC-3A2)

(2)儀器設定

Frequency Bnd (MHz)	Instrument	Function	Resolution Bndwidth	Video Bndwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	300 kHz
	RF Test Receiver	Peak	120 kHz	300 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10 Hz

10.4 場強度之計算

場強之計算公式如下

$$\text{結果值} = \text{讀值} + \text{校正因子}$$

其中校正因子為：

天線因子+ 饋線損失 + 濾波器損失（若有使用） - 放大器增益（若有使用）
量測結果請見下頁。

10.5 場強輻射之量測結果

測試工程師: 羅世勇

10.5.1 諧波發射

測試日期: Nov. 10, 2020

環境溫度: 22°C

環境濕度: 58%

10.5.1.1 調變技術: IEEE 802.11a

a. Channel Low

基本波頻率 : 5260 MHz

輻射 頻率 (MHz)	天線 極性 H/V	機器讀值 (dBuV/m)@3m		校正 因子 (dB)	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse) (dB)
		Peak	AVG		Peak	AVG	Peak	AVG	
10520.0000	H	---	---	6.33	---	---	74.0	54.0	---
10520.0000	V	---	---	6.33	---	---	74.0	54.0	---
15780.0000	H	---	---	11.35	---	---	74.0	54.0	---
15780.0000	V	---	---	11.35	---	---	74.0	54.0	---
21040.0000	H	---	---	18.72	---	---	74.0	54.0	---
21040.0000	V	---	---	18.72	---	---	74.0	54.0	---
26300.0000	H	---	---	16.47	---	---	74.0	54.0	---
26300.0000	V	---	---	16.47	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

b. Channel Mid

基本波頻率：5300 MHz

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
		Peak	AVG		Peak	AVG	Peak	AVG	
(MHz)	H/V			(dB)					(dB)
10600.0000	H	---	---	6.43	---	---	74.0	54.0	---
10600.0000	V	---	---	6.43	---	---	74.0	54.0	---
15900.0000	H	---	---	11.49	---	---	74.0	54.0	---
15900.0000	V	---	---	11.49	---	---	74.0	54.0	---
21200.0000	H	---	---	18.86	---	---	74.0	54.0	---
21200.0000	V	---	---	18.86	---	---	74.0	54.0	---
26500.0000	H	---	---	16.39	---	---	74.0	54.0	---
26500.0000	V	---	---	16.39	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

c. Channel High

基本波頻率：5320 MHz

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
10640.0000	H	---	---	6.49	---	---	74.0	54.0	---
10640.0000	V	---	---	6.49	---	---	74.0	54.0	---
15960.0000	H	---	---	11.56	---	---	74.0	54.0	---
15960.0000	V	---	---	11.56	---	---	74.0	54.0	---
21280.0000	H	---	---	18.93	---	---	74.0	54.0	---
21280.0000	V	---	---	18.93	---	---	74.0	54.0	---
26600.0000	H	---	---	16.38	---	---	74.0	54.0	---
26600.0000	V	---	---	16.38	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

10.5.1.2 調變技術: IEEE 802.11ax (20MHz)

a. Channel Low

基本波頻率 : 5260 MHz

輻射 頻率 (MHz)	天線 極性 H/V	機器讀值 (dBuV/m)@3m		校正 因子 (dB)	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse) (dB)
		Peak	AVG		Peak	AVG	Peak	AVG	
10520.0000	H	---	---	6.33	---	---	74.0	54.0	---
10520.0000	V	---	---	6.33	---	---	74.0	54.0	---
15780.0000	H	---	---	11.35	---	---	74.0	54.0	---
15780.0000	V	---	---	11.35	---	---	74.0	54.0	---
21040.0000	H	---	---	18.72	---	---	74.0	54.0	---
21040.0000	V	---	---	18.72	---	---	74.0	54.0	---
26300.0000	H	---	---	16.47	---	---	74.0	54.0	---
26300.0000	V	---	---	16.47	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

b. Channel Mid

基本波頻率：5300 MHz

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
		Peak	AVG		Peak	AVG	Peak	AVG	
(MHz)	H/V			(dB)					(dB)
10600.0000	H	---	---	6.43	---	---	74.0	54.0	---
10600.0000	V	---	---	6.43	---	---	74.0	54.0	---
15900.0000	H	---	---	11.49	---	---	74.0	54.0	---
15900.0000	V	---	---	11.49	---	---	74.0	54.0	---
21200.0000	H	---	---	18.86	---	---	74.0	54.0	---
21200.0000	V	---	---	18.86	---	---	74.0	54.0	---
26500.0000	H	---	---	16.39	---	---	74.0	54.0	---
26500.0000	V	---	---	16.39	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

c. Channel High

基本波頻率：5320 MHz

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
		Peak	AVG		Peak	AVG	Peak	AVG	
(MHz)	H/V			(dB)					(dB)
10640.0000	H	---	---	6.49	---	---	74.0	54.0	---
10640.0000	V	---	---	6.49	---	---	74.0	54.0	---
15960.0000	H	---	---	11.56	---	---	74.0	54.0	---
15960.0000	V	---	---	11.56	---	---	74.0	54.0	---
21280.0000	H	---	---	18.93	---	---	74.0	54.0	---
21280.0000	V	---	---	18.93	---	---	74.0	54.0	---
26600.0000	H	---	---	16.38	---	---	74.0	54.0	---
26600.0000	V	---	---	16.38	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

10.5.1.3 調變技術: IEEE 802.11ax (40MHz)

a. Channel Low

基本波頻率 : 5270 MHz

輻射 頻率 (MHz)	天線 極性 H/V	機器讀值 (dBuV/m)@3m		校正 因子 (dB)	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse) (dB)
		Peak	AVG		Peak	AVG	Peak	AVG	
10540.0000	H	---	---	6.35	---	---	74.0	54.0	---
10540.0000	V	---	---	6.35	---	---	74.0	54.0	---
15810.0000	H	---	---	11.38	---	---	74.0	54.0	---
15810.0000	V	---	---	11.38	---	---	74.0	54.0	---
21080.0000	H	---	---	18.75	---	---	74.0	54.0	---
21080.0000	V	---	---	18.75	---	---	74.0	54.0	---
26350.0000	H	---	---	16.45	---	---	74.0	54.0	---
26350.0000	V	---	---	16.45	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

b.Channel High

基本波頻率：5310 MHz

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
10620.0000	H	---	---	6.45	---	---	74.0	54.0	---
10620.0000	V	---	---	6.45	---	---	74.0	54.0	---
15930.0000	H	---	---	11.53	---	---	74.0	54.0	---
15930.0000	V	---	---	11.53	---	---	74.0	54.0	---
21240.0000	H	---	---	18.89	---	---	74.0	54.0	---
21240.0000	V	---	---	18.89	---	---	74.0	54.0	---
26550.0000	H	---	---	16.39	---	---	74.0	54.0	---
26550.0000	V	---	---	16.39	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

10.5.1.4 IEEE 802.11ax (80MHz)

Channel High

基本波頻率：5290 MHz

輻射 頻率	天線 極性	機器讀值 (dBuV/m)@3m		校正 因子	結果值 (dBuV/m)@3m		限制值 (dBuV/m)@3m		餘裕值 (worse)
(MHz)	H/V	Peak	AVG	(dB)	Peak	AVG	Peak	AVG	(dB)
10580.0000	H	---	---	6.40	---	---	74.0	54.0	---
10580.0000	V	---	---	6.40	---	---	74.0	54.0	---
15870.0000	H	---	---	11.45	---	---	74.0	54.0	---
15870.0000	V	---	---	11.45	---	---	74.0	54.0	---
21160.0000	H	---	---	18.82	---	---	74.0	54.0	---
21160.0000	V	---	---	18.82	---	---	74.0	54.0	---
26450.0000	H	---	---	16.41	---	---	74.0	54.0	---
26450.0000	V	---	---	16.41	---	---	74.0	54.0	---

註：1. 標記“---”表發射之訊號太弱而儀器無法量測。

2. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

3. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

10.5.2 諧波及其它不必要之訊號測試圖

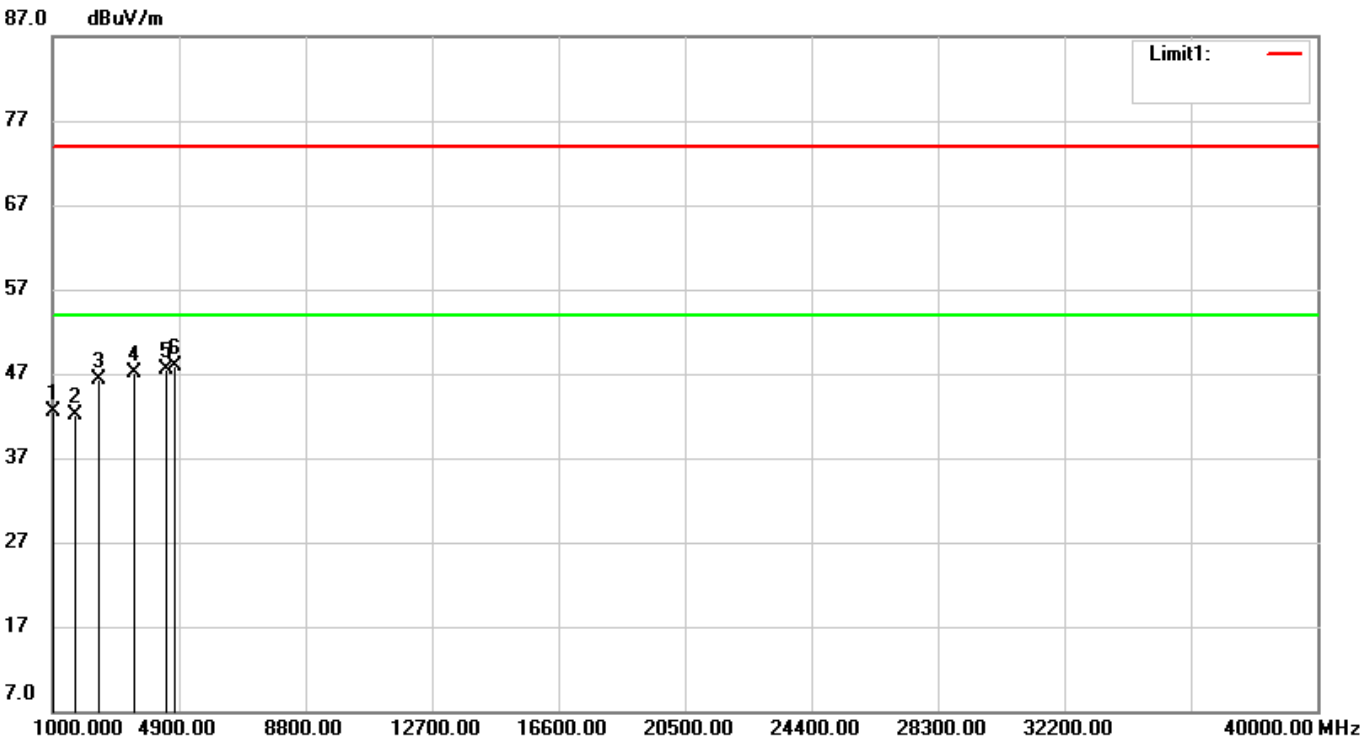
10.5.2.1 調變技術: IEEE 802.11a

a. Channel Low

操作模式：發射接收

基本波頻率：5260MHz

File: 20-10-MAS-019_5-3a #35 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH LOW-1

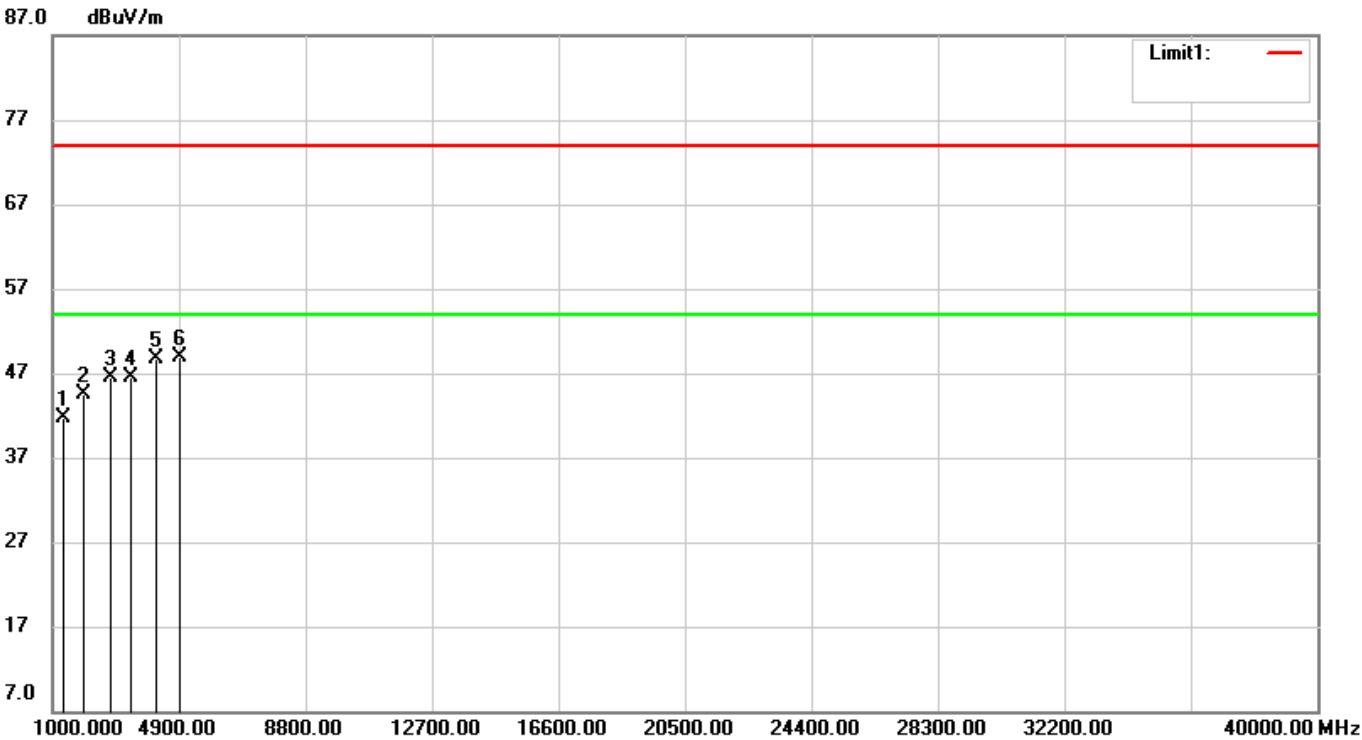
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1040.86530	51.94	peak	-9.37	42.57	74.00	-31.43
2	1633.41340	49.05	peak	-6.99	42.06	74.00	-31.94
3	2409.85560	49.04	peak	-2.66	46.38	74.00	-27.62
4	3492.78840	48.20	peak	-1.17	47.03	74.00	-26.97
5	4459.93580	47.03	peak	0.43	47.46	74.00	-26.54
6	4732.37170	46.90	peak	0.91	47.81	74.00	-26.19

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5260 MHz

File: 20-10-MAS-019_5-3a #36 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH LOW-1

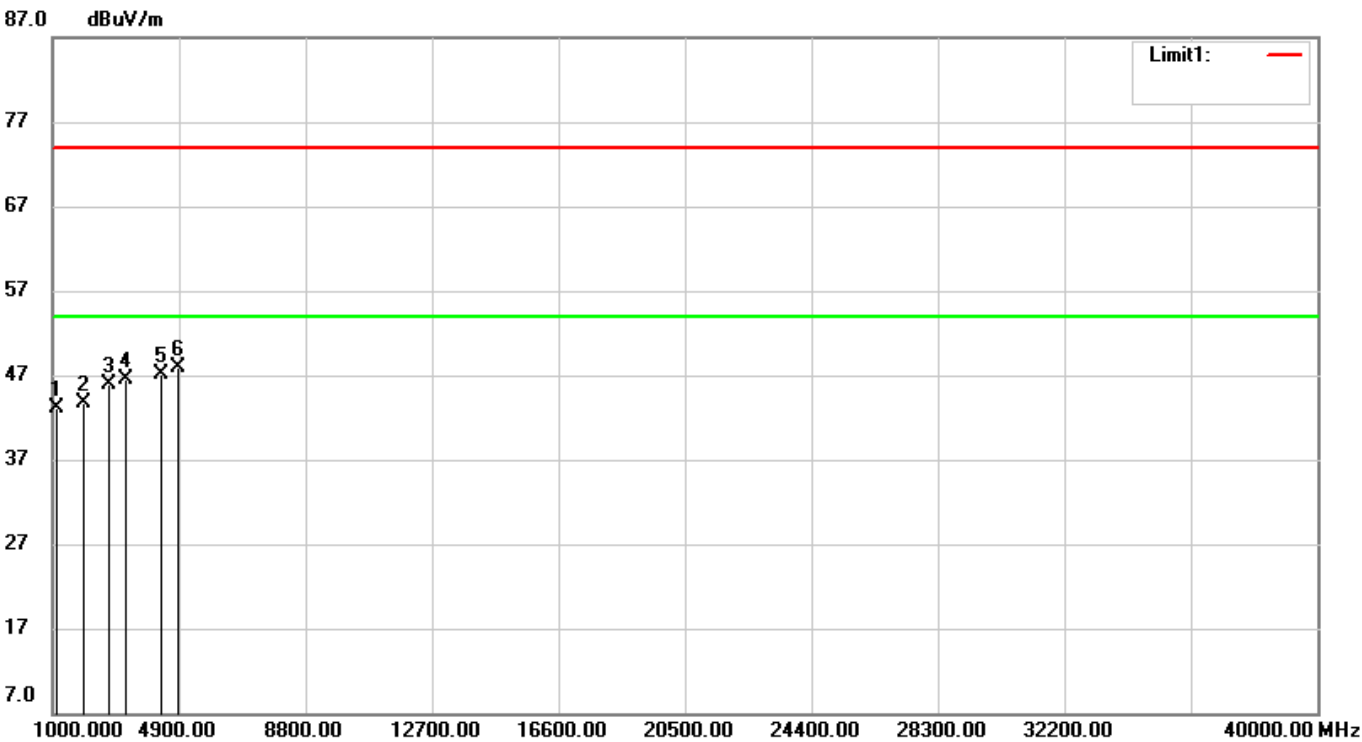
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1258.81410	50.57	peak	-8.80	41.77	74.00	-32.23
2	1899.03840	49.19	peak	-4.63	44.56	74.00	-29.44
3	2770.83330	48.63	peak	-2.13	46.50	74.00	-27.50
4	3397.43580	47.89	peak	-1.32	46.57	74.00	-27.43
5	4146.63460	48.38	peak	0.24	48.62	74.00	-25.38
6	4895.83330	47.70	peak	1.20	48.90	74.00	-25.10

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel Mid

操作模式：發射接收
基本波頻率：5300 MHz

File: 20-10-MAS-019_5-3a #37 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH MID-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1074.91970	52.35	peak	-9.28	43.07	74.00	-30.93
2	1905.84930	48.24	peak	-4.57	43.67	74.00	-30.33
3	2702.72430	48.17	peak	-2.21	45.96	74.00	-28.04
4	3206.73060	48.13	peak	-1.60	46.53	74.00	-27.47
5	4323.71800	46.81	peak	0.35	47.16	74.00	-26.84
6	4814.10250	46.82	peak	1.06	47.88	74.00	-26.12

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收

基本波頻率：5300 MHz

File: 20-10-MAS-019_5-3a

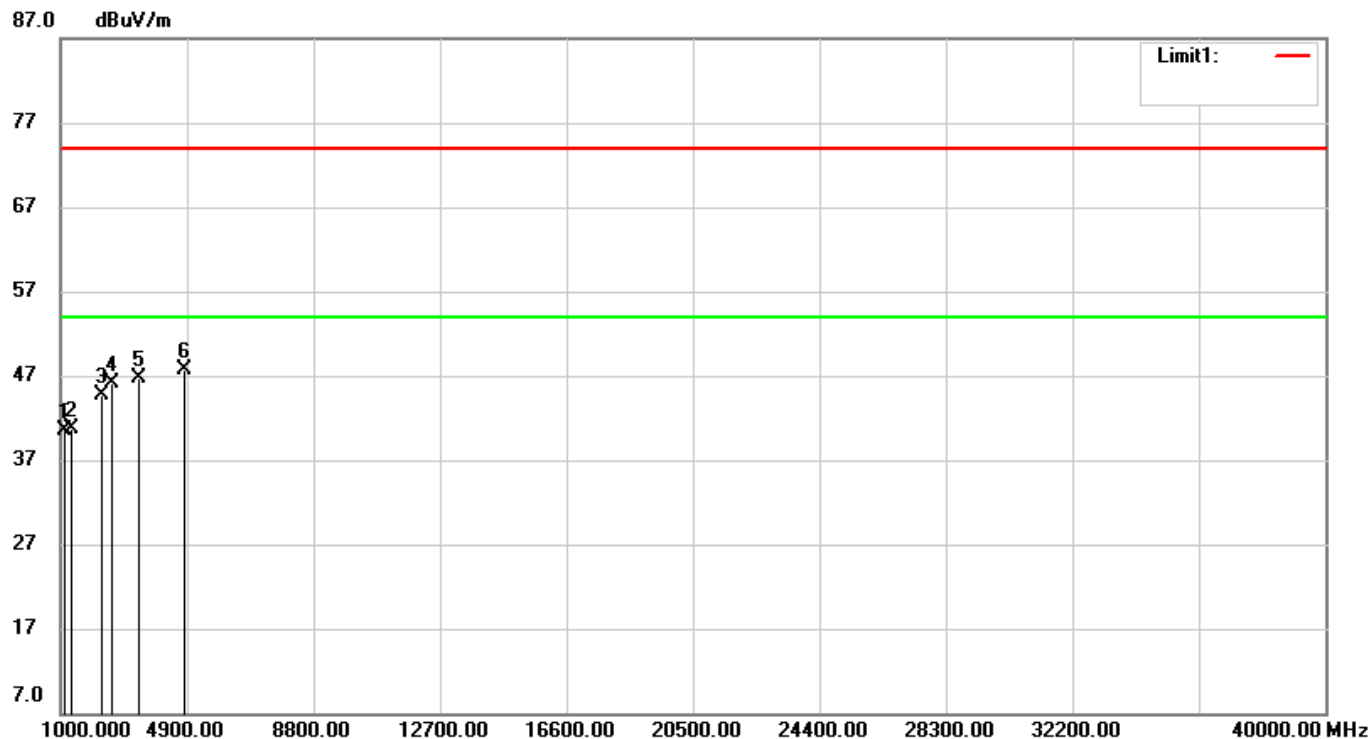
#38

Date: 2020/11/10

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: CH MID-1

Polarization: Vertical
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1068.10900	49.84	peak	-9.29	40.55	74.00	-33.45
2	1252.00320	49.60	peak	-8.82	40.78	74.00	-33.22
3	2225.96150	47.86	peak	-3.14	44.72	74.00	-29.28
4	2546.07370	48.42	peak	-2.37	46.05	74.00	-27.95
5	3417.86850	47.89	peak	-1.28	46.61	74.00	-27.39
6	4786.85900	46.77	peak	1.00	47.77	74.00	-26.23

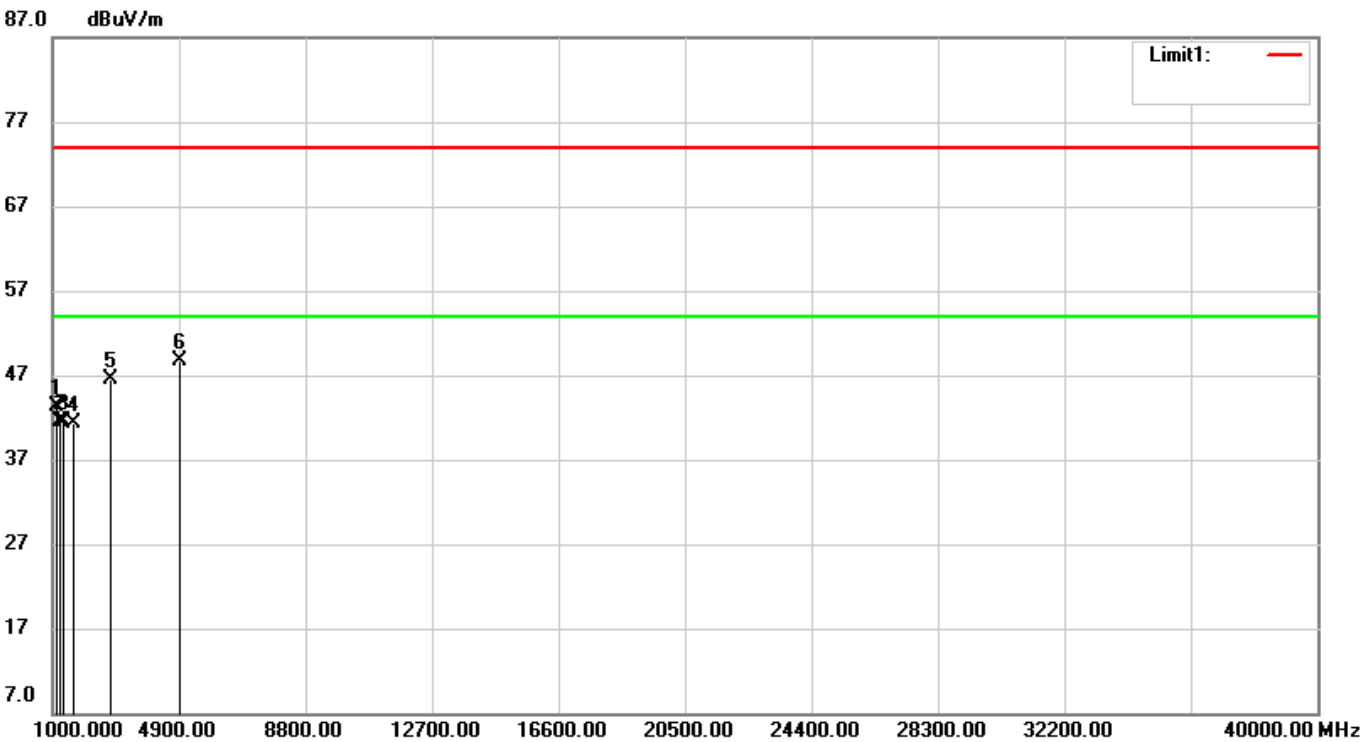
註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

c. Channel High

操作模式：發射接收
基本波頻率：5320 MHz

File: 20-10-MAS-019_5-3a #39 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



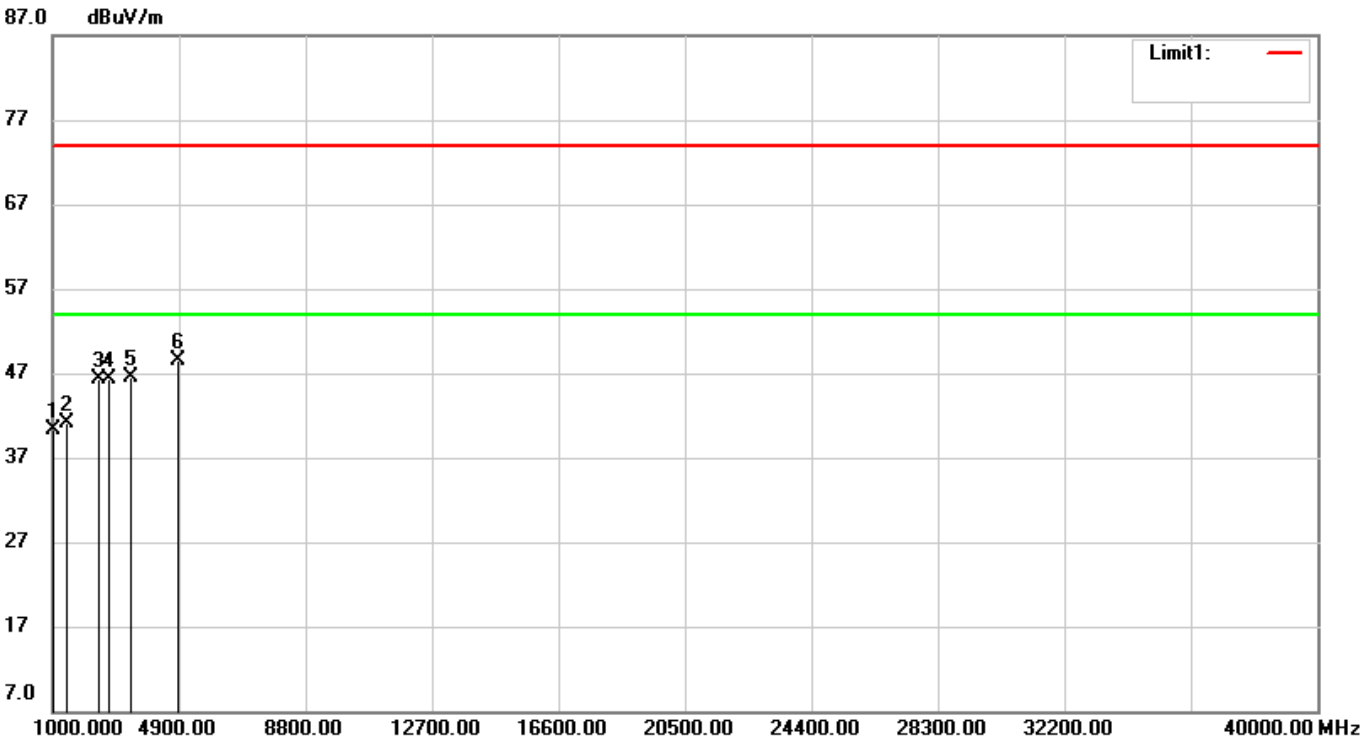
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH HIGH-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1074.91970	52.59	peak	-9.28	43.31	74.00	-30.69
2	1224.75960	50.42	peak	-8.89	41.53	74.00	-32.47
3	1258.81410	50.32	peak	-8.80	41.52	74.00	-32.48
4	1599.35900	48.54	peak	-7.29	41.25	74.00	-32.75
5	2777.64420	48.60	peak	-2.13	46.47	74.00	-27.53
6	4882.21150	47.48	peak	1.19	48.67	74.00	-25.33

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5320 MHz

File: 20-10-MAS-019_5-3a #40 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH HIGH-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1040.86530	49.75	peak	-9.37	40.38	74.00	-33.62
2	1408.65380	49.50	peak	-8.42	41.08	74.00	-32.92
3	2409.85560	49.03	peak	-2.66	46.37	74.00	-27.63
4	2702.72430	48.61	peak	-2.21	46.40	74.00	-27.60
5	3383.81410	47.91	peak	-1.34	46.57	74.00	-27.43
6	4868.58970	47.35	peak	1.16	48.51	74.00	-25.49

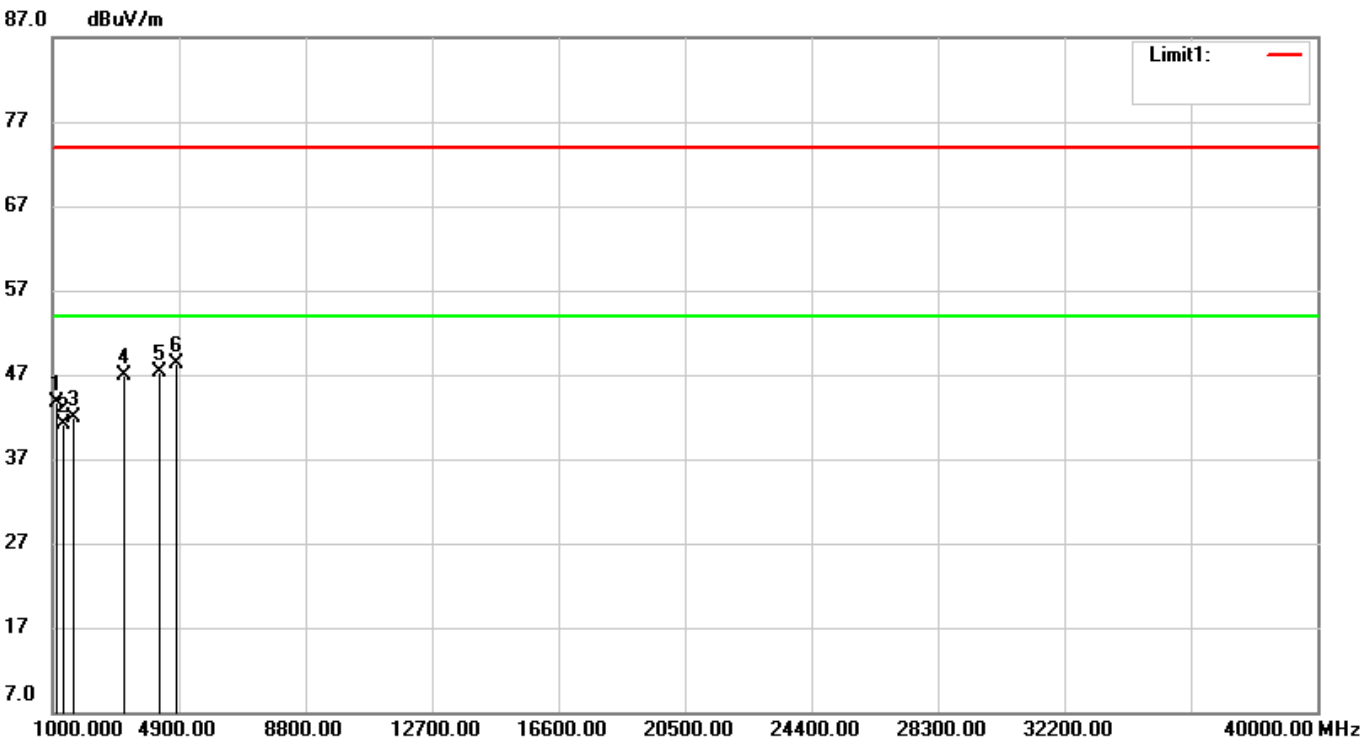
註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2.2 調變技術: IEEE 802.11ax (20MHz)

a. Channel Low

操作模式：發射接收
基本波頻率：5260 MHz

File: 20-10-MAS-019_5-3ax20 #45 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH LOW-1

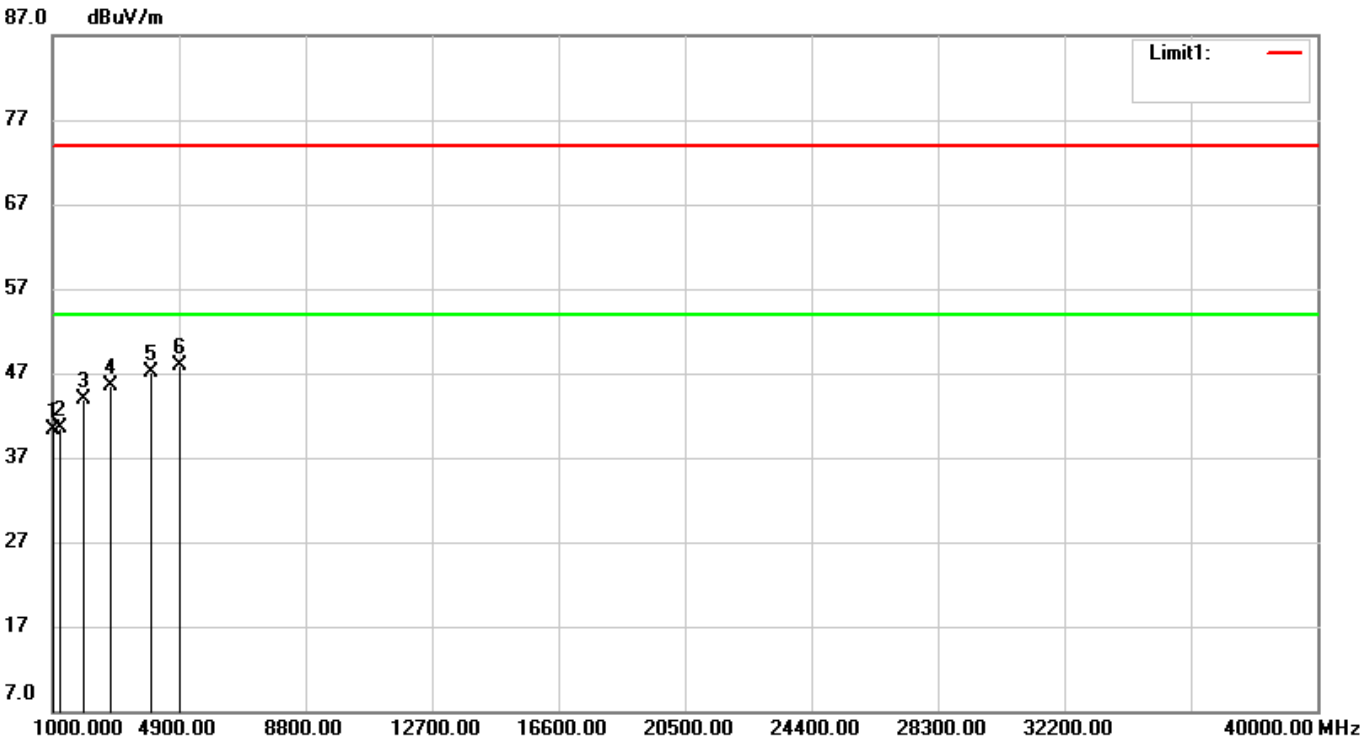
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1068.10900	52.97	peak	-9.29	43.68	74.00	-30.32
2	1252.00320	49.83	peak	-8.82	41.01	74.00	-32.99
3	1592.54800	49.23	peak	-7.36	41.87	74.00	-32.13
4	3186.29800	48.56	peak	-1.63	46.93	74.00	-27.07
5	4255.60900	47.09	peak	0.30	47.39	74.00	-26.61
6	4752.80430	47.42	peak	0.94	48.36	74.00	-25.64

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5260 MHz

File: 20-10-MAS-019_5-3ax20 #46 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH LOW-1

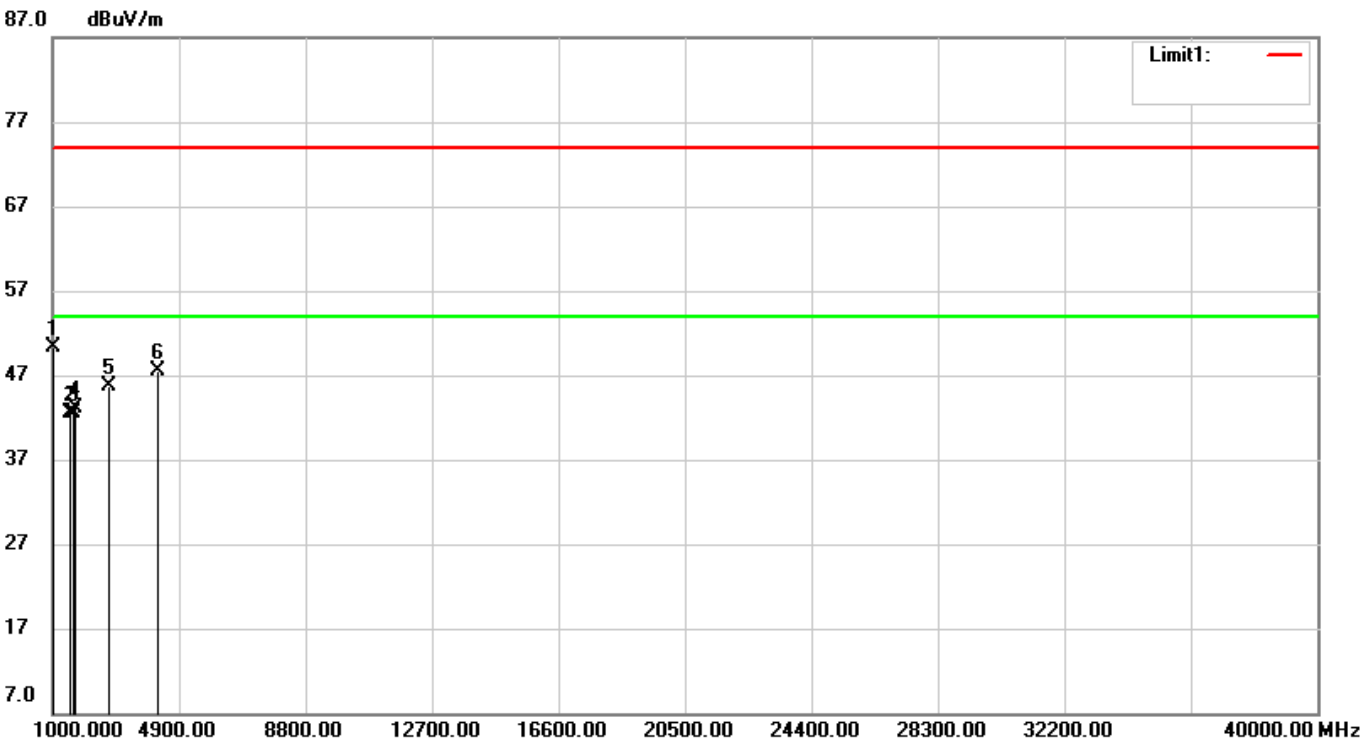
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1047.67620	49.66	peak	-9.35	40.31	74.00	-33.69
2	1204.32700	49.54	peak	-8.94	40.60	74.00	-33.40
3	1919.47110	48.32	peak	-4.45	43.87	74.00	-30.13
4	2757.21150	47.67	peak	-2.15	45.52	74.00	-28.48
5	4058.09300	46.98	peak	0.18	47.16	74.00	-26.84
6	4882.21150	46.79	peak	1.19	47.98	74.00	-26.02

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

b. Channel Mid

操作模式：發射接收
基本波頻率：5300 MHz

File: 20-10-MAS-019_5-3ax20 #47 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



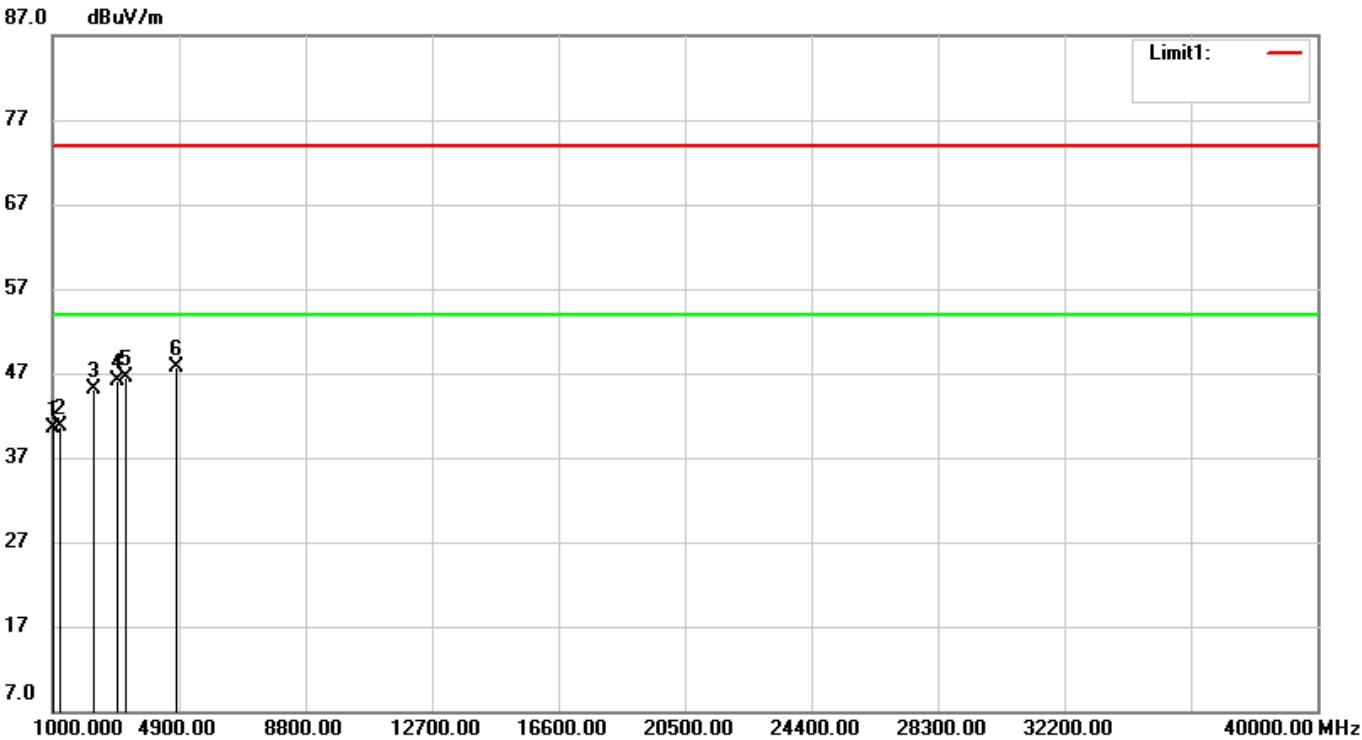
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH MID-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1061.29800	59.66	peak	-9.31	50.35	74.00	-23.65
2	1524.43910	50.56	peak	-7.97	42.59	74.00	-31.41
3	1599.35900	49.88	peak	-7.29	42.59	74.00	-31.41
4	1653.84610	49.82	peak	-6.81	43.01	74.00	-30.99
5	2723.15700	47.80	peak	-2.19	45.61	74.00	-28.39
6	4241.98710	47.26	peak	0.29	47.55	74.00	-26.45

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5300 MHz

File: 20-10-MAS-019_5-3ax20 #48 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH MID-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1040.86530	52.67	peak	-9.37	43.30	74.00	-30.70
2	1197.51600	50.26	peak	-8.96	41.30	74.00	-32.70
3	1252.00320	50.30	peak	-8.82	41.48	74.00	-32.52
4	1599.35900	48.74	peak	-7.29	41.45	74.00	-32.55
5	2273.63780	48.27	peak	-3.01	45.26	74.00	-28.74
6	3199.91980	48.40	peak	-1.61	46.79	74.00	-27.21

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

c. Channel High

操作模式：發射接收

基本波頻率：5320 MHz

File: 20-10-MAS-019_5-3ax20

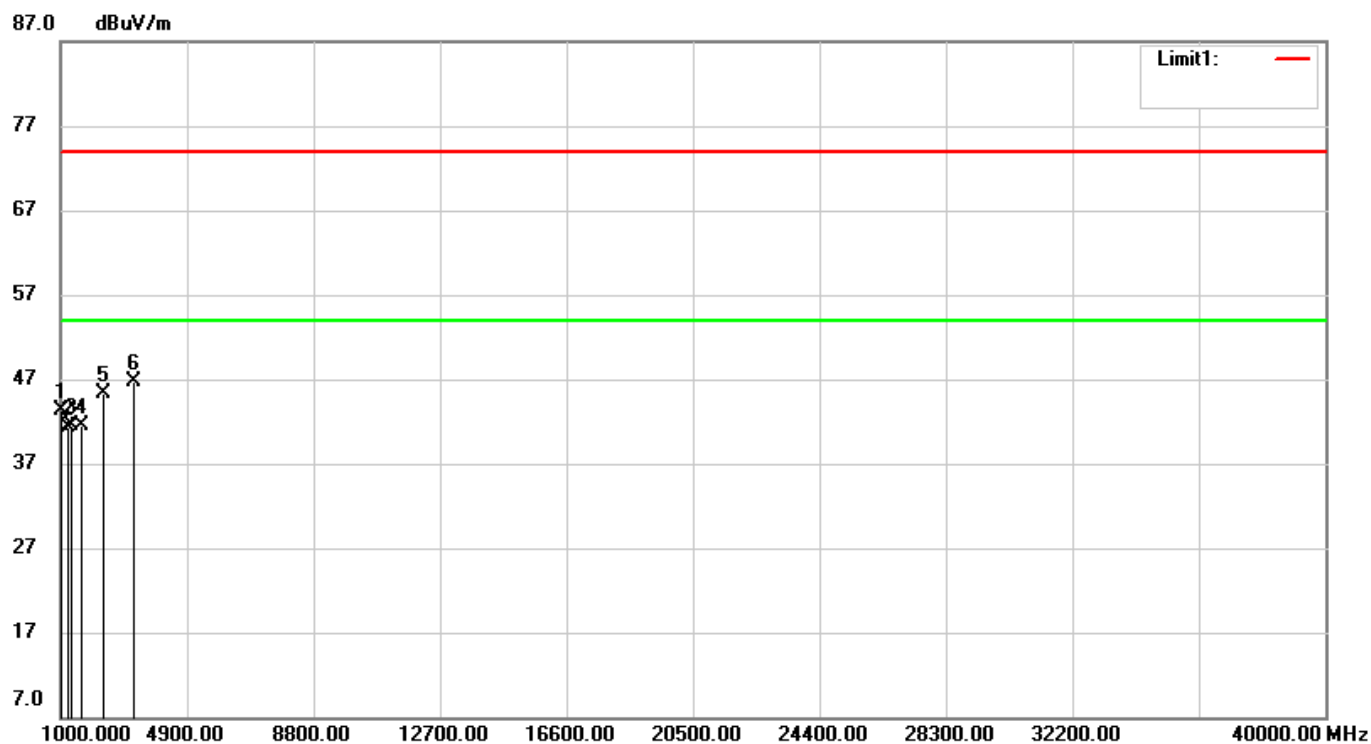
#49

Date: 2020/11/10

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: CH HIGH-1

Polarization: Horizontal
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1040.86530	52.67	peak	-9.37	43.30	74.00	-30.70
2	1197.51600	50.26	peak	-8.96	41.30	74.00	-32.70
3	1252.00320	50.30	peak	-8.82	41.48	74.00	-32.52
4	1599.35900	48.74	peak	-7.29	41.45	74.00	-32.55
5	2273.63780	48.27	peak	-3.01	45.26	74.00	-28.74
6	3199.91980	48.40	peak	-1.61	46.79	74.00	-27.21

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

操作模式：發射接收

基本波頻率：5320 MHz

File: 20-10-MAS-019_5-3ax20

#50

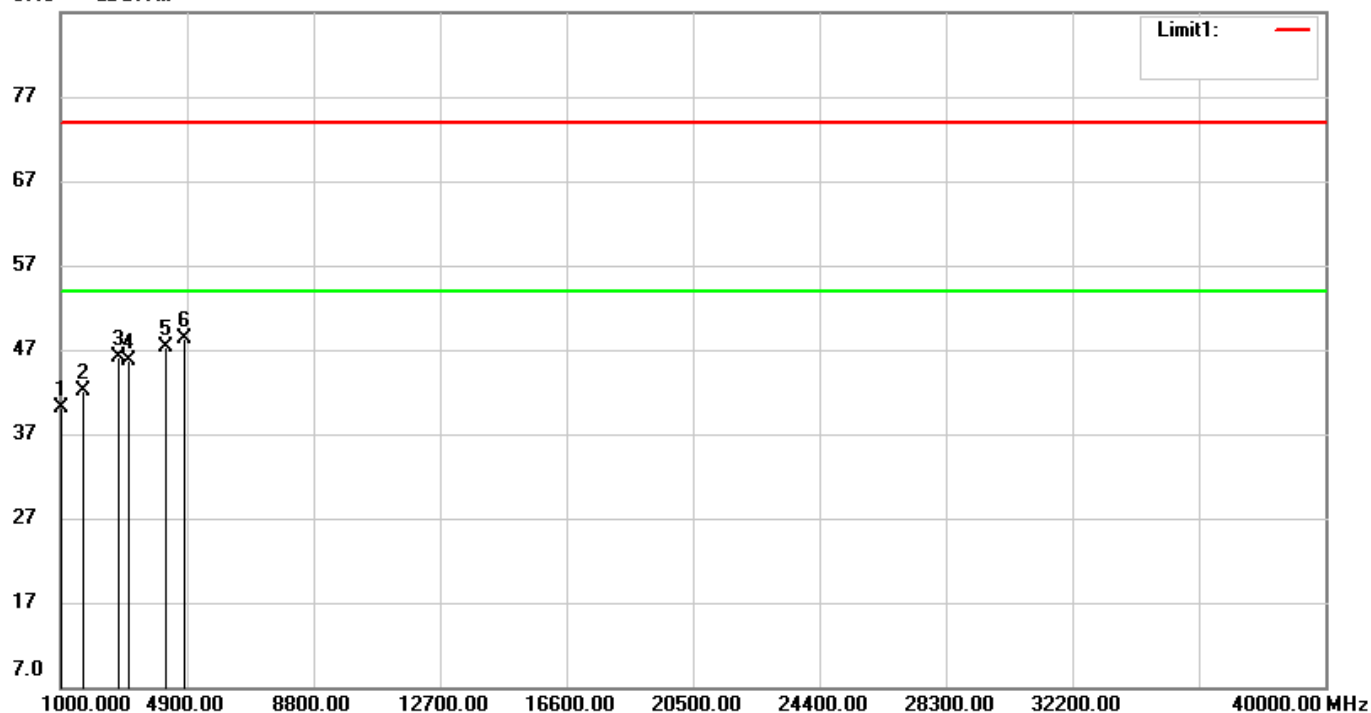
Date: 2020/11/10

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %

87.0 dBuV/m



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: CH HIGH-1

Polarization: Vertical
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1047.67620	49.42	peak	-9.35	40.07	74.00	-33.93
2	1633.41340	49.11	peak	-6.99	42.12	74.00	-31.88
3	2750.40060	48.17	peak	-2.16	46.01	74.00	-27.99
4	3063.70200	47.51	peak	-1.81	45.70	74.00	-28.30
5	4248.79800	46.96	peak	0.30	47.26	74.00	-26.74
6	4773.23710	47.35	peak	0.99	48.34	74.00	-25.66

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

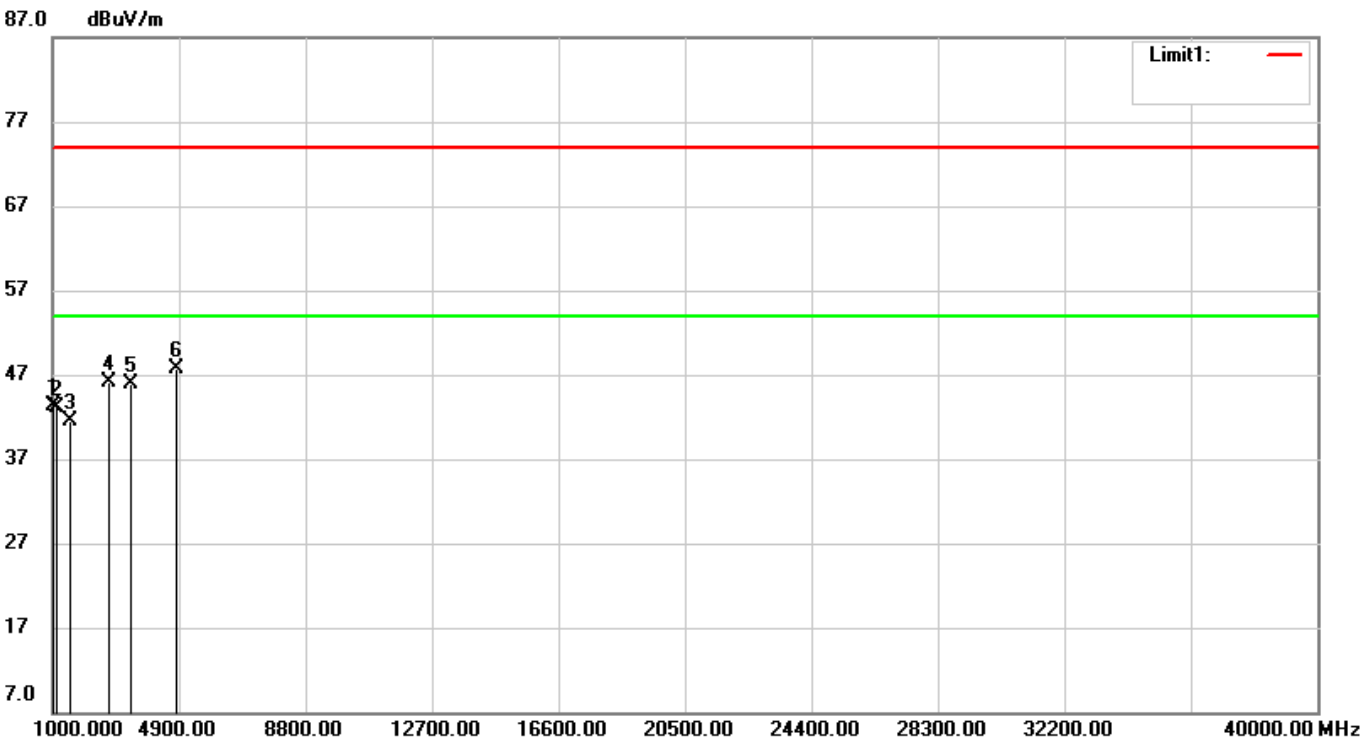
2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

10.5.2.3 調變技術: IEEE 802.11ax (40MHz)

a. Channel Low

操作模式：發射接收
基本波頻率：5270 MHz

File: 20-10-MAS-019_5-3ax40 #29 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH LOW-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1040.86530	52.66	peak	-9.37	43.29	74.00	-30.71
2	1081.73070	52.30	peak	-9.26	43.04	74.00	-30.96
3	1510.81730	49.57	peak	-8.08	41.49	74.00	-32.51
4	2702.72430	48.29	peak	-2.21	46.08	74.00	-27.92
5	3383.81410	47.21	peak	-1.34	45.87	74.00	-28.13
6	4773.23710	46.71	peak	0.99	47.70	74.00	-26.30

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收

基本波頻率：5270 MHz

File: 20-10-MAS-019_5-3ax40

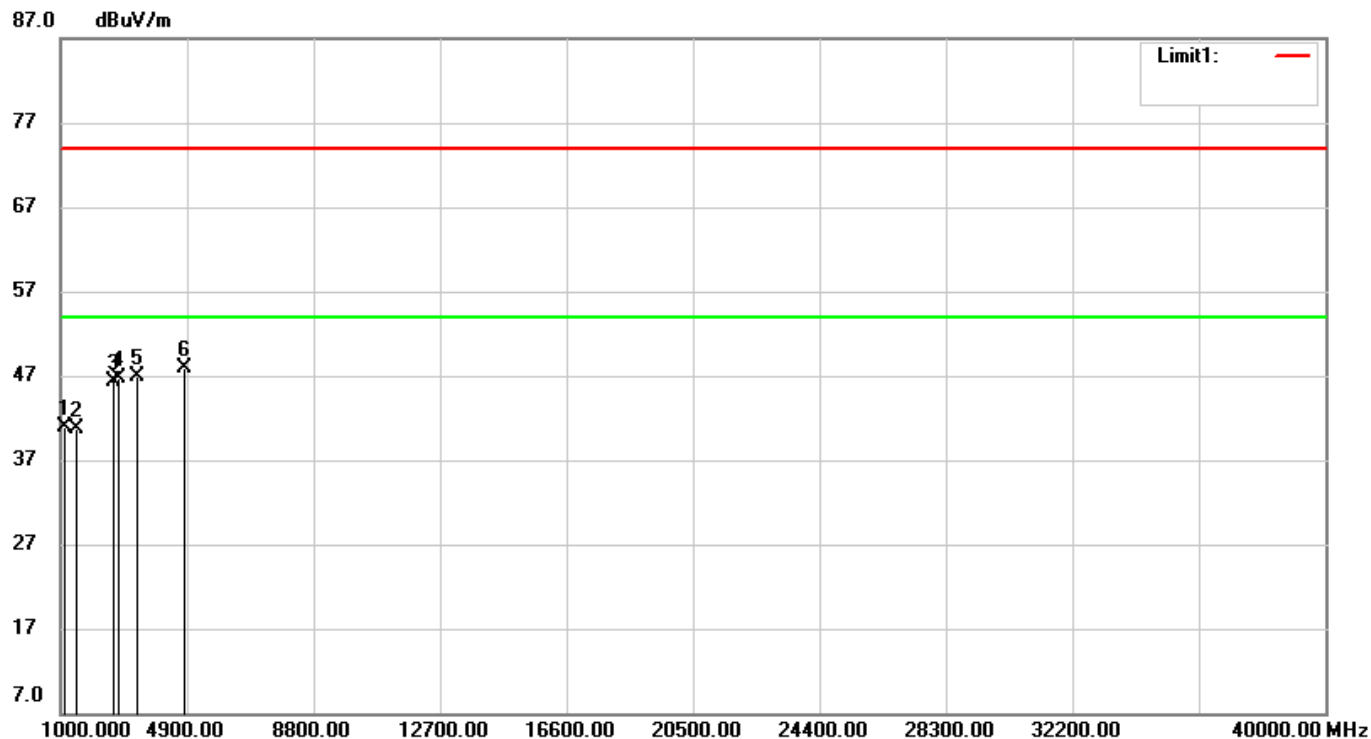
#30

Date: 2020/11/10

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: CH LOW-1

Polarization: Vertical
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1068.10900	50.11	peak	-9.29	40.82	74.00	-33.18
2	1442.70830	48.94	peak	-8.33	40.61	74.00	-33.39
3	2620.99350	48.68	peak	-2.29	46.39	74.00	-27.61
4	2804.88780	48.73	peak	-2.11	46.62	74.00	-27.38
5	3363.38140	48.32	peak	-1.36	46.96	74.00	-27.04
6	4807.29160	46.91	peak	1.04	47.95	74.00	-26.05

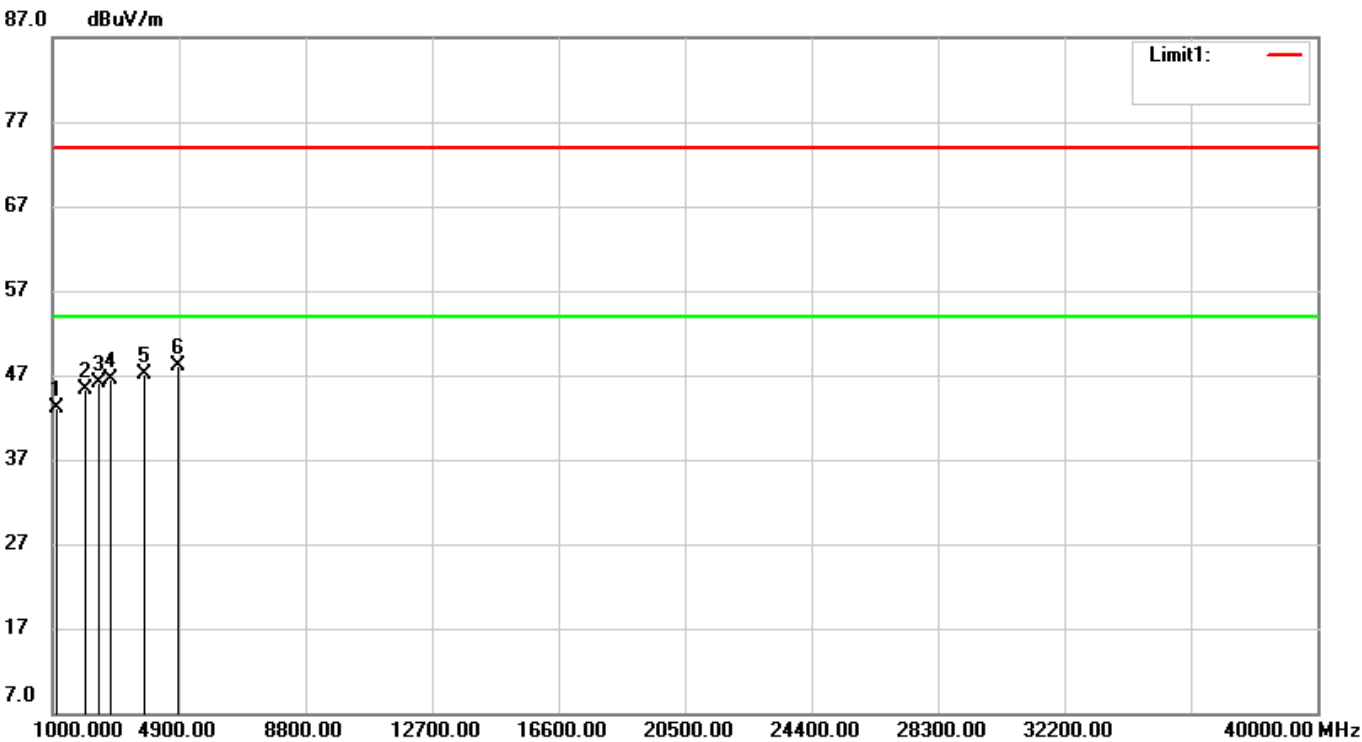
註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

b. Channel High

操作模式：發射接收
基本波頻率：5310 MHz

File: 20-10-MAS-019_5-3ax40 #31 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



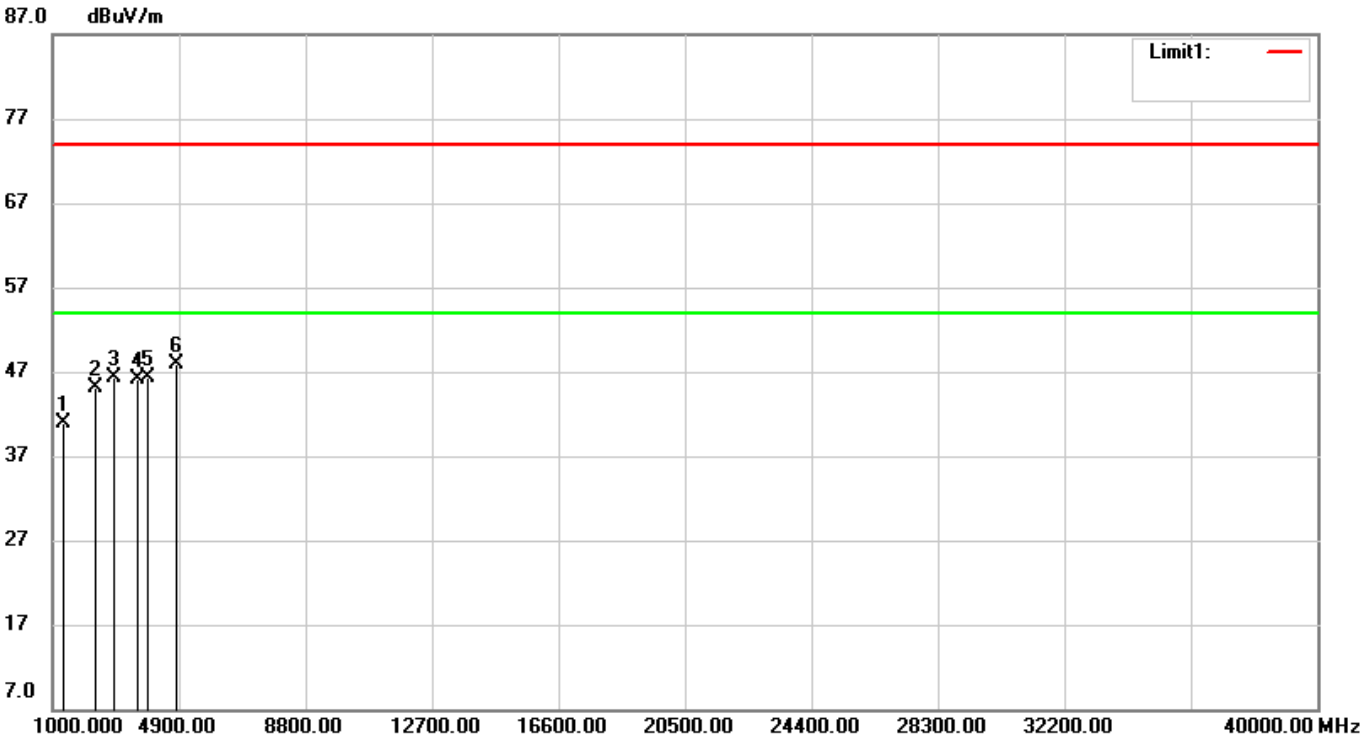
Condition: NCC_Above1G_Pk Polarization: Horizontal
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH HIGH-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1068.10900	52.42	peak	-9.29	43.13	74.00	-30.87
2	1946.71470	49.53	peak	-4.20	45.33	74.00	-28.67
3	2416.66660	48.65	peak	-2.64	46.01	74.00	-27.99
4	2784.45510	48.58	peak	-2.13	46.45	74.00	-27.55
5	3799.27880	47.52	peak	-0.38	47.14	74.00	-26.86
6	4841.34610	47.06	peak	1.11	48.17	74.00	-25.83

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：發射接收
基本波頻率：5310 MHz

File: 20-10-MAS-019_5-3ax40 #32 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH HIGH-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1279.24670	49.73	peak	-8.75	40.98	74.00	-33.02
2	2294.07050	48.07	peak	-2.96	45.11	74.00	-28.89
3	2818.50960	48.38	peak	-2.10	46.28	74.00	-27.72
4	3574.51920	47.15	peak	-0.97	46.18	74.00	-27.82
5	3928.68580	46.42	peak	-0.06	46.36	74.00	-27.64
6	4766.42620	47.01	peak	0.96	47.97	74.00	-26.03

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2.4 調變技術: IEEE 802.11ax (80MHz)

操作模式 : 發射接收

基本波頻率 : 5290 MHz

File: 20-10-MAS-019_5-3ax80

#23

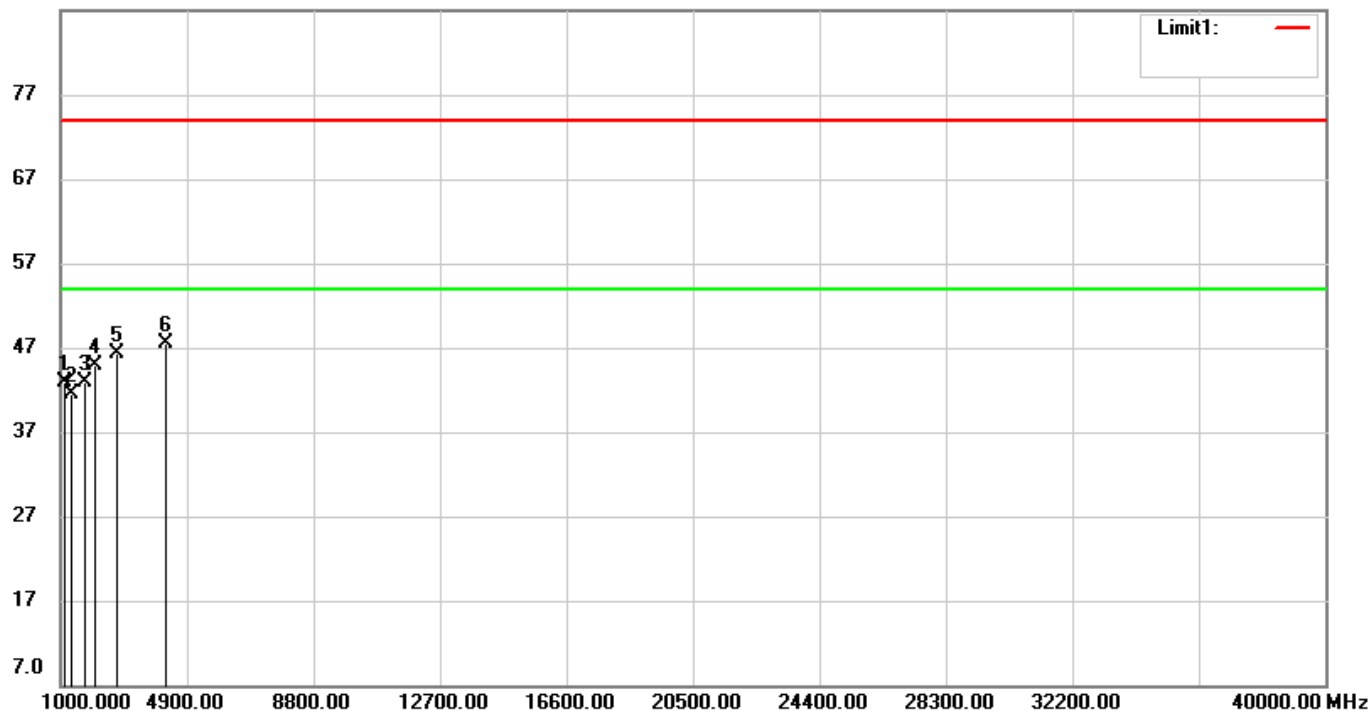
Date: 2020/11/10

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %

87.0 dBuV/m



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: CH LOW-1

Polarization: Horizontal
 Distance: 3m
 Operator: Phillip

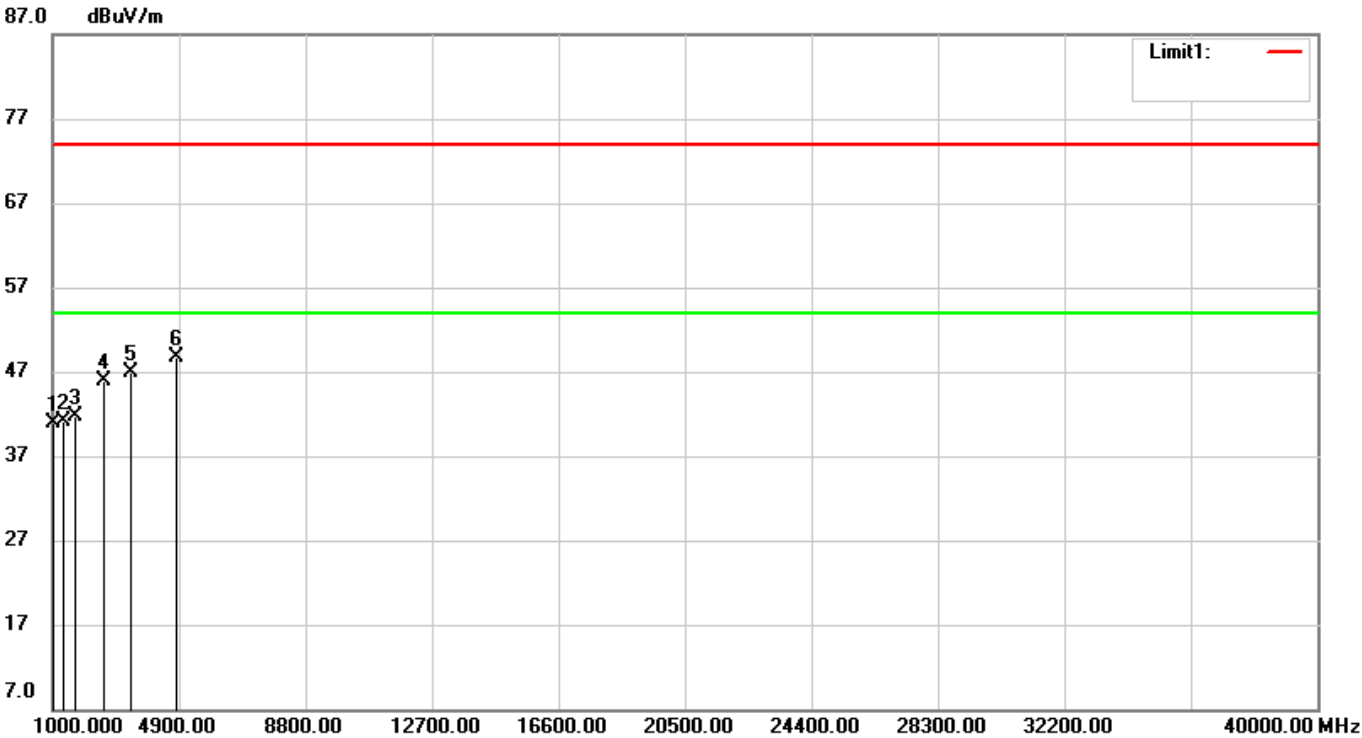
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1047.67620	50.24	peak	-9.35	40.89	74.00	-33.11
2	1279.24670	49.77	peak	-8.75	41.02	74.00	-32.98
3	1667.46800	48.42	peak	-6.69	41.73	74.00	-32.27
4	2532.45200	48.23	peak	-2.38	45.85	74.00	-28.15
5	3424.67940	48.13	peak	-1.28	46.85	74.00	-27.15
6	4786.85900	47.67	peak	1.00	48.67	74.00	-25.33

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

操作模式：發射接收
基本波頻率：5290 MHz

File: 20-10-MAS-019_5-3ax80 #24 Date: 2020/11/10 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: UNII Operator: Phillip
Note: CH LOW-1

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1047.67620	50.24	peak	-9.35	40.89	74.00	-33.11
2	1279.24670	49.77	peak	-8.75	41.02	74.00	-32.98
3	1667.46800	48.42	peak	-6.69	41.73	74.00	-32.27
4	2532.45200	48.23	peak	-2.38	45.85	74.00	-28.15
5	3424.67940	48.13	peak	-1.28	46.85	74.00	-27.15
6	4786.85900	47.67	peak	1.00	48.67	74.00	-25.33

註：1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.2.5 Normal Mode

操作模式：Mode J

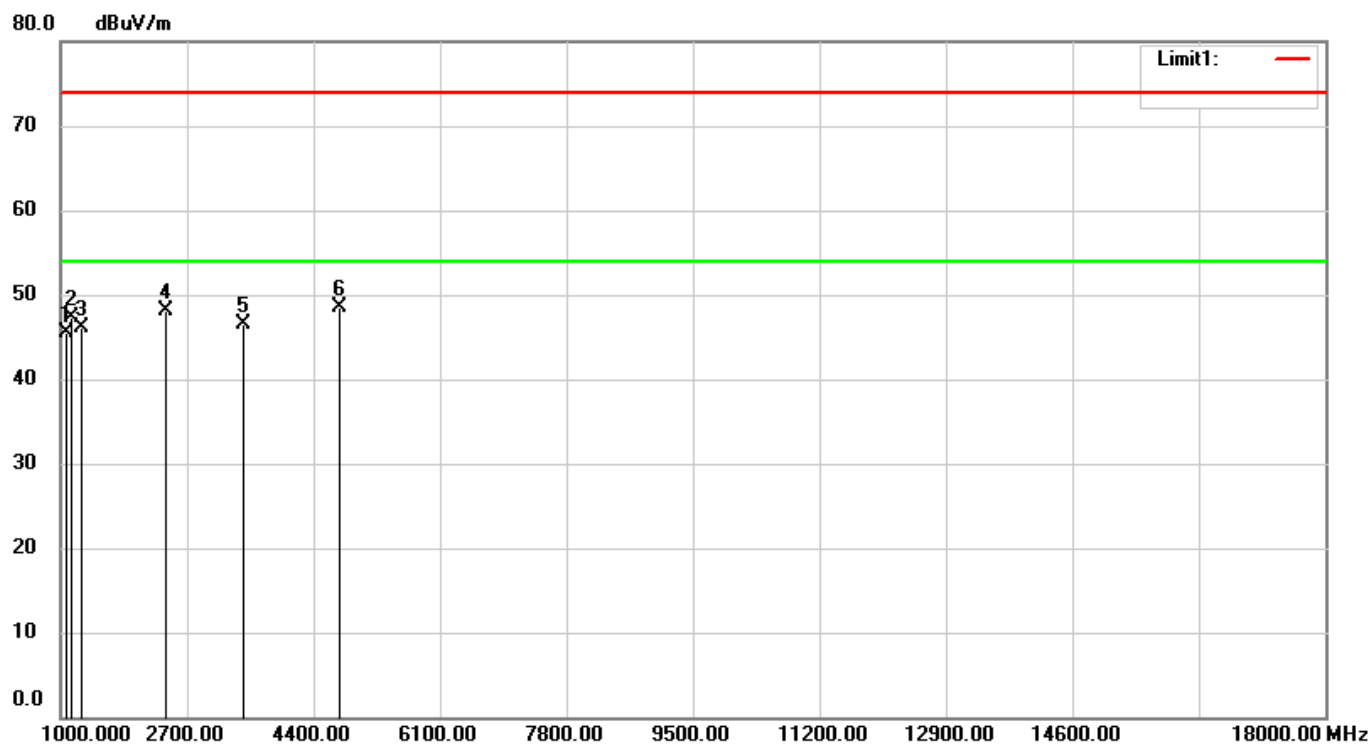
File: 20-10-MAS-019_Above 1G
 Site: RE02-EMC B1- N2

#13

Date: 2020/11/12

Temperature: 22 °C

Humidity: 58 %



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal1
 Note: HDMI+USB+BT+LAN

Polarization: Horizontal
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1078.52540	54.83	peak	-9.26	45.57	74.00	-28.43
2	1112.17930	56.48	peak	-9.18	47.30	74.00	-26.70
3	1269.23070	54.94	peak	-8.77	46.17	74.00	-27.83
4	2413.46140	50.69	peak	-2.66	48.03	74.00	-25.97
5	3445.51270	47.80	peak	-1.25	46.55	74.00	-27.45
6	4758.01280	47.59	peak	0.95	48.54	74.00	-25.46

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

操作模式: Mode J

File: 20-10-MAS-019_Above 1G

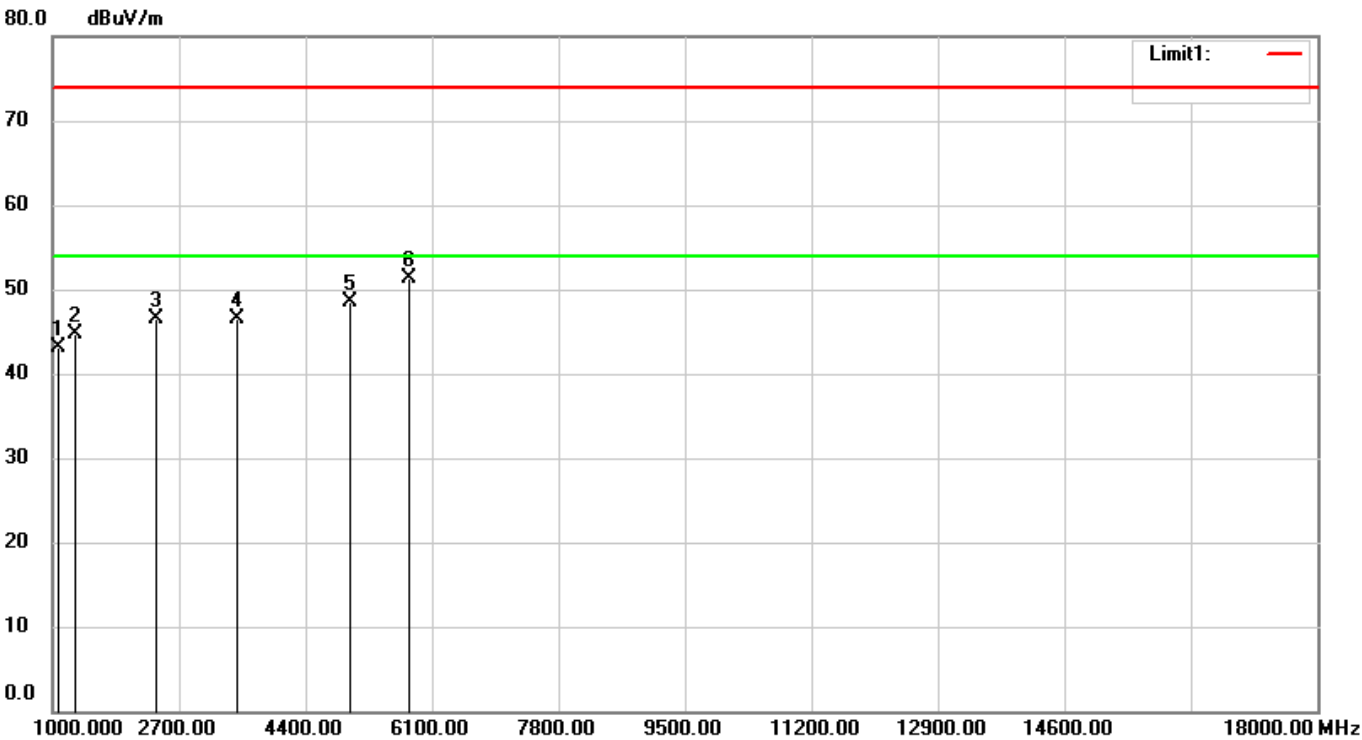
#12

Date: 2020/11/12

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %



Condition: NCC_Above1G_Pk

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: Normal1

Note: HDMI+USB+BT+LAN

Polarization: Vertical

Distance: 3m

Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1067.30760	52.39	peak	-9.29	43.10	74.00	-30.90
2	1291.66660	53.48	peak	-8.72	44.76	74.00	-29.24
3	2379.80760	49.27	peak	-2.74	46.53	74.00	-27.47
4	3467.94860	47.82	peak	-1.22	46.60	74.00	-27.40
5	5004.80760	47.04	peak	1.42	48.46	74.00	-25.54
6	5790.06410	48.72	peak	2.53	51.25	74.00	-22.75

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

操作模式：Mode K

File: 20-10-MAS-019_Above 1G

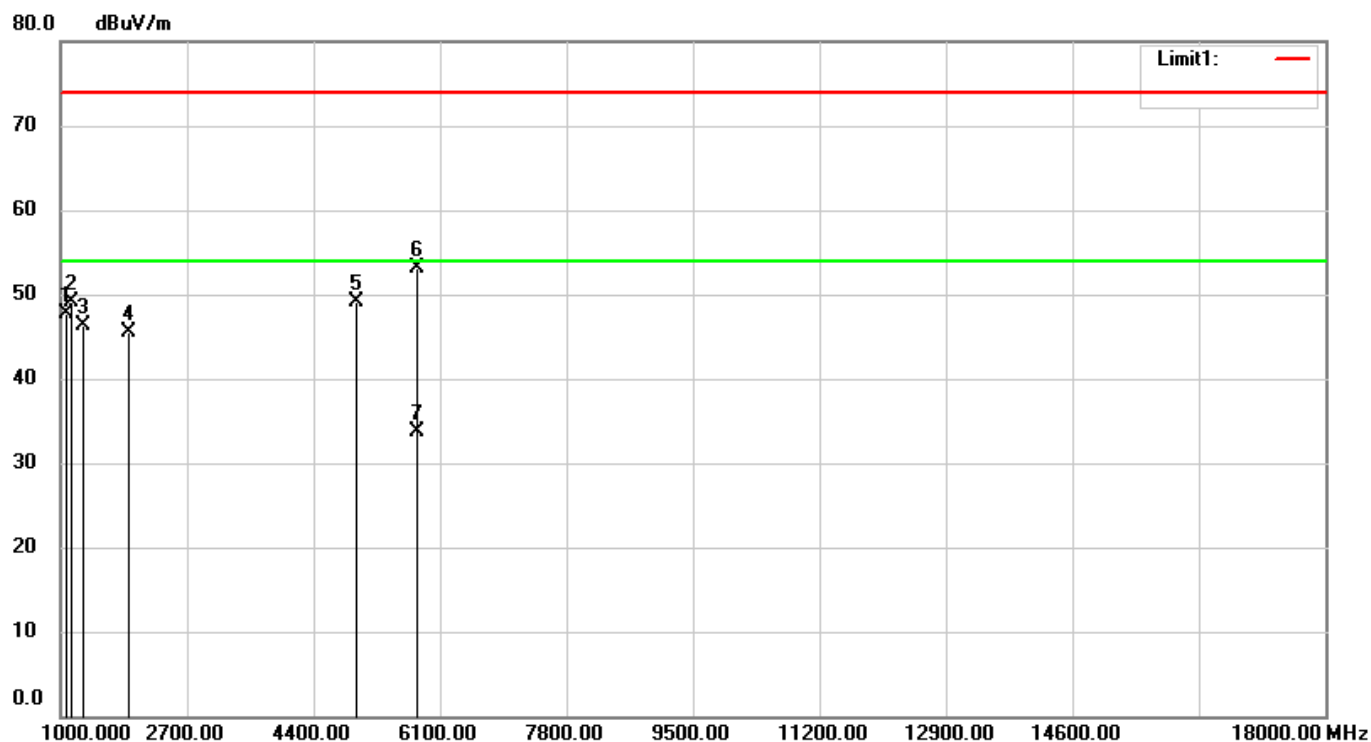
#11

Date: 2020/11/12

Temperature: 22 °C

Site: RE02-EMC B1- N2

Humidity: 58 %



Condition: NCC_Above1G_Pk
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal2
 Note: HDMI+USB+BT+WIFI

Polarization: Horizontal
 Distance: 3m
 Operator: Phillip

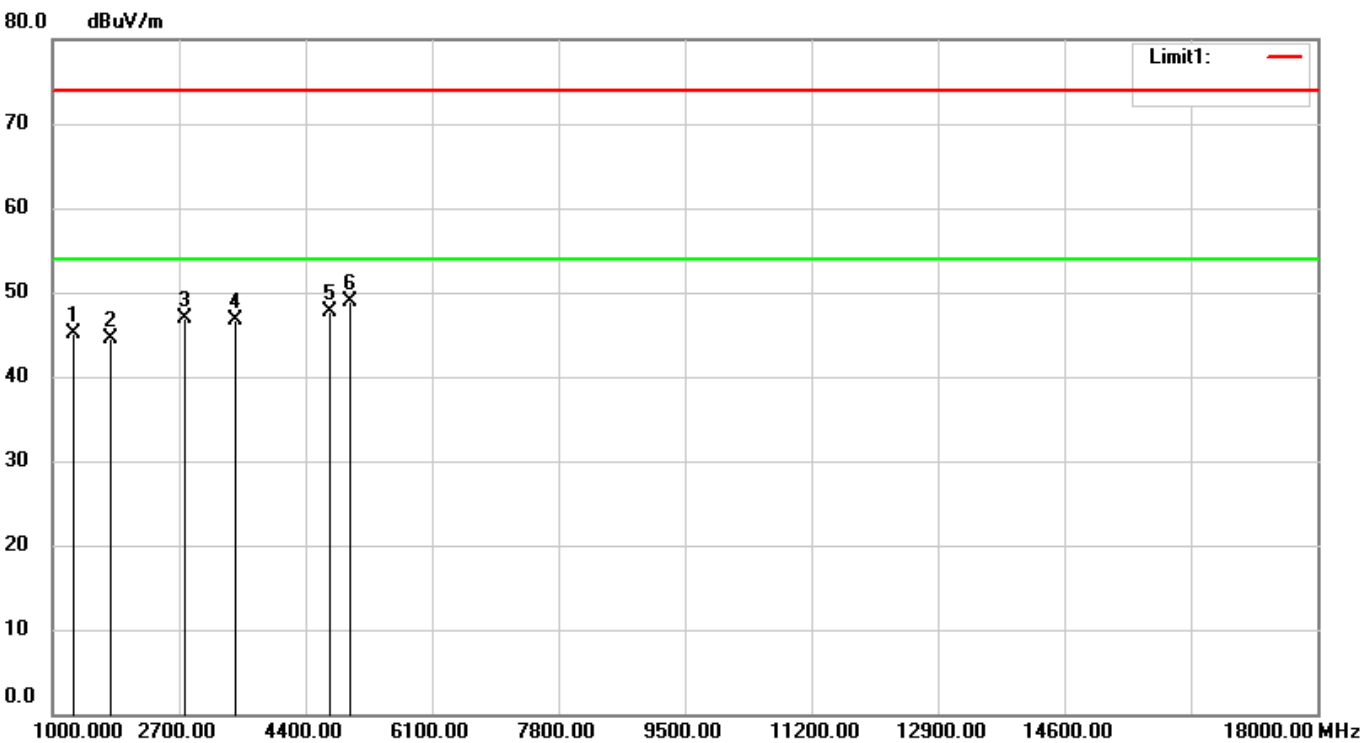
No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1067.30760	56.98	peak	-9.29	47.69	74.00	-26.31
2	1112.17930	58.29	peak	-9.18	49.11	74.00	-24.89
3	1291.66660	55.09	peak	-8.72	46.37	74.00	-27.63
4	1919.87150	50.01	peak	-4.44	45.57	74.00	-28.43
5	4971.15380	47.66	peak	1.36	49.02	74.00	-24.98
6	5790.06410	50.57	peak	2.53	53.10	74.00	-20.90
7	5790.06410	31.13	AVG	2.53	33.66	54.00	-20.34

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。

2. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f < 18\text{GHz}$)
 $\pm 4.4\text{dB}$ ($18\text{GHz} \leq f \leq 40\text{GHz}$)

操作模式: Mode K

File: 20-10-MAS-019_Above 1G #10 Date: 2020/11/12 Temperature: 22 °C
Site: RE02-EMC B1- N2 Humidity: 58 %



Condition: NCC_Above1G_Pk Polarization: Vertical
EUT: Development Kit for PlayStation5 Distance: 3m
Model: DFI-D1000AA
Test Mode: Normal2 Operator: Phillip
Note: HDMI+USB+BT+WIFI

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1258.01250	53.82	peak	-8.80	45.02	74.00	-28.98
2	1785.25630	50.11	peak	-5.64	44.47	74.00	-29.53
3	2750.00000	49.06	peak	-2.16	46.90	74.00	-27.10
4	3434.29480	47.93	peak	-1.27	46.66	74.00	-27.34
5	4713.14100	46.84	peak	0.87	47.71	74.00	-26.29
6	4993.58970	47.43	peak	1.40	48.83	74.00	-25.17

註: 1. 若以峰值檢測功能測量之值符合平均值限制值，則可視同以平均值功能測量之值亦符合平均值限制值。
2. 量測不準確度: $\pm 4.1\text{dB}(1\text{GHz} \leq f < 18\text{GHz})$
 $\pm 4.4\text{dB}(18\text{GHz} \leq f \leq 40\text{GHz})$

10.5.3 其它不必要之訊號

10.5.3.1 測試狀態: IEEE 802.11ax (80MHz)

File: 20-10-MAS-019_Below 1G

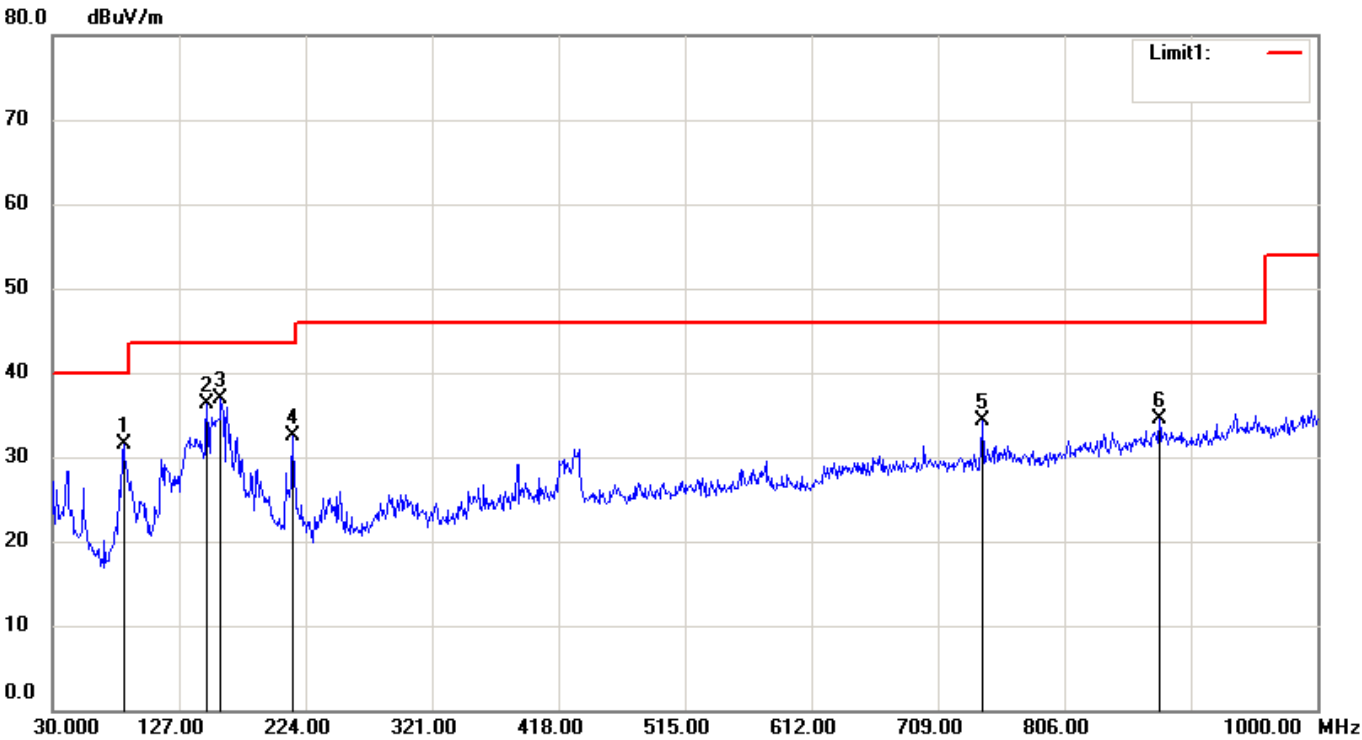
#3

Date: 2020/11/12

Temperature: 22 °C

Site: RE02-EMC B1-N2

Humidity: 58 %



Condition: NCC_LP0002_30-1000MHz

Polarization: Horizontal

EUT: Development Kit for PlayStation5

Distance: 3m

Model: DFI-D1000AA

Operator: Phillip

Test Mode: Band2

Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	84.3200	43.54	QP	-12.04	31.50	40.00	-8.50
2	148.3400	41.07	QP	-4.85	36.22	43.50	-7.28
3*	159.0100	43.15	QP	-6.31	36.84	43.50	-6.66
4	214.3000	41.33	QP	-8.83	32.50	43.50	-11.00
5	742.9500	31.54	QP	2.85	34.39	46.00	-11.61
6	878.7500	28.91	QP	5.50	34.41	46.00	-11.59

File: 20-10-MAS-019_Below 1G

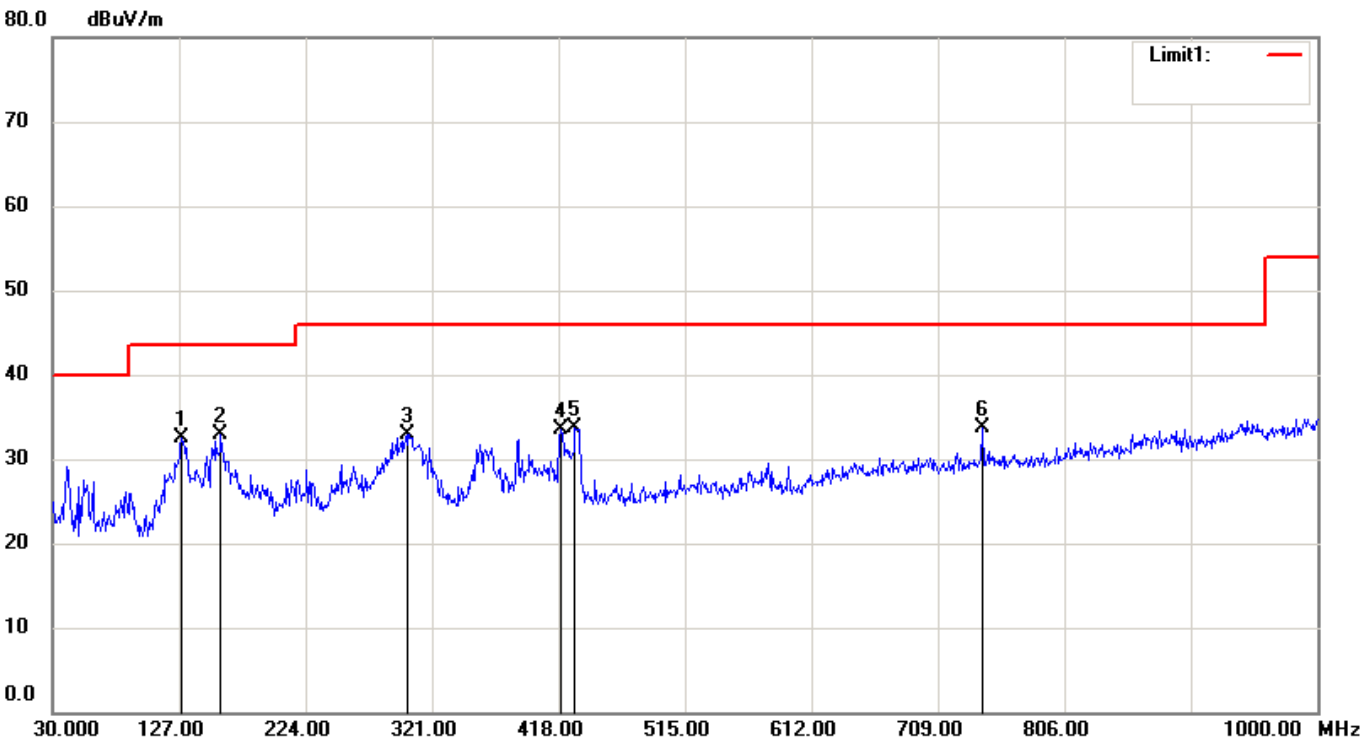
#4

Date: 2020/11/12

Temperature: 22 °C

Site: RE02-EMC B1-N2

Humidity: 58 %



Condition: NCC_LP0002_30-1000MHz

Polarization: Vertical

EUT: Development Kit for PlayStation5

Distance: 3m

Model: DFI-D1000AA

Operator: Phillip

Test Mode: Band2

Note:

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	128.9400	36.10	QP	-3.52	32.58	43.50	-10.92
2*	159.0100	39.25	QP	-6.31	32.94	43.50	-10.56
3	301.6000	37.20	QP	-4.36	32.84	46.00	-13.16
4	419.9400	35.39	QP	-1.88	33.51	46.00	-12.49
5	430.6100	35.53	QP	-1.91	33.62	46.00	-12.38
6	742.9500	30.81	QP	2.85	33.66	46.00	-12.34

註：1. 若以峰值檢測功能測量之值符合準峰值限制值，則可視同以準峰值功能測量之值亦符合準峰值限制值。

2. 量測不準確度: +4.20dB/ -4.24 dB (30MHz≤f<1GHz)

10.5.3.2 測試狀態: Mode J

File: 20-10-MAS-019_Below 1G

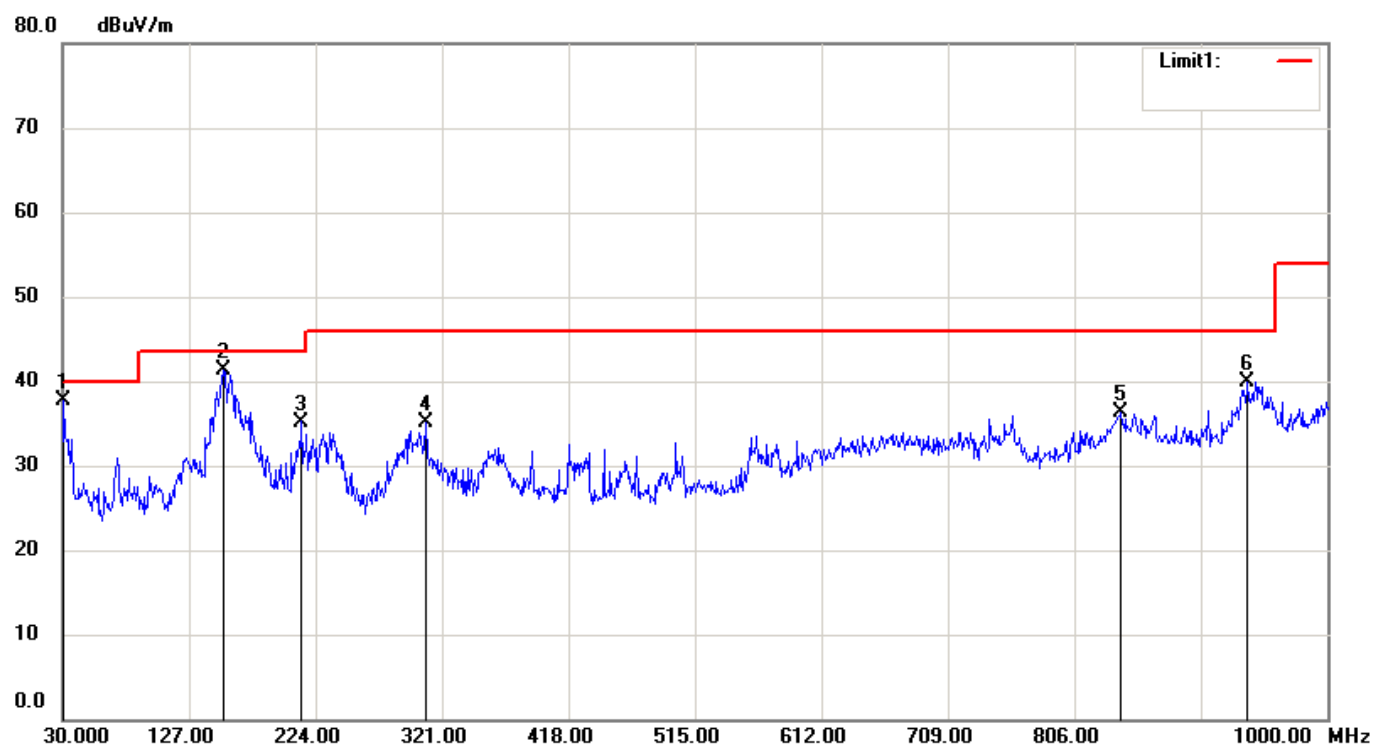
#23

Date: 2020/11/12

Temperature: 22 °C

Site: RE02-EMC B1-N2

Humidity: 58 %



Condition: NCC_LP0002_30-1000MHz
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal1
 Note: HDMI+USB+BT+LAN

Polarization: Horizontal
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	30.9700	41.33	QP	-3.64	37.69	40.00	-2.31
2*	153.1900	46.74	QP	-5.49	41.25	43.50	-2.25
3	213.3300	44.09	QP	-8.89	35.20	43.50	-8.30
4	308.3900	39.30	QP	-4.25	35.05	46.00	-10.95
5	841.8900	31.34	QP	4.92	36.26	46.00	-9.74
6	938.8900	33.20	QP	6.79	39.99	46.00	-6.01

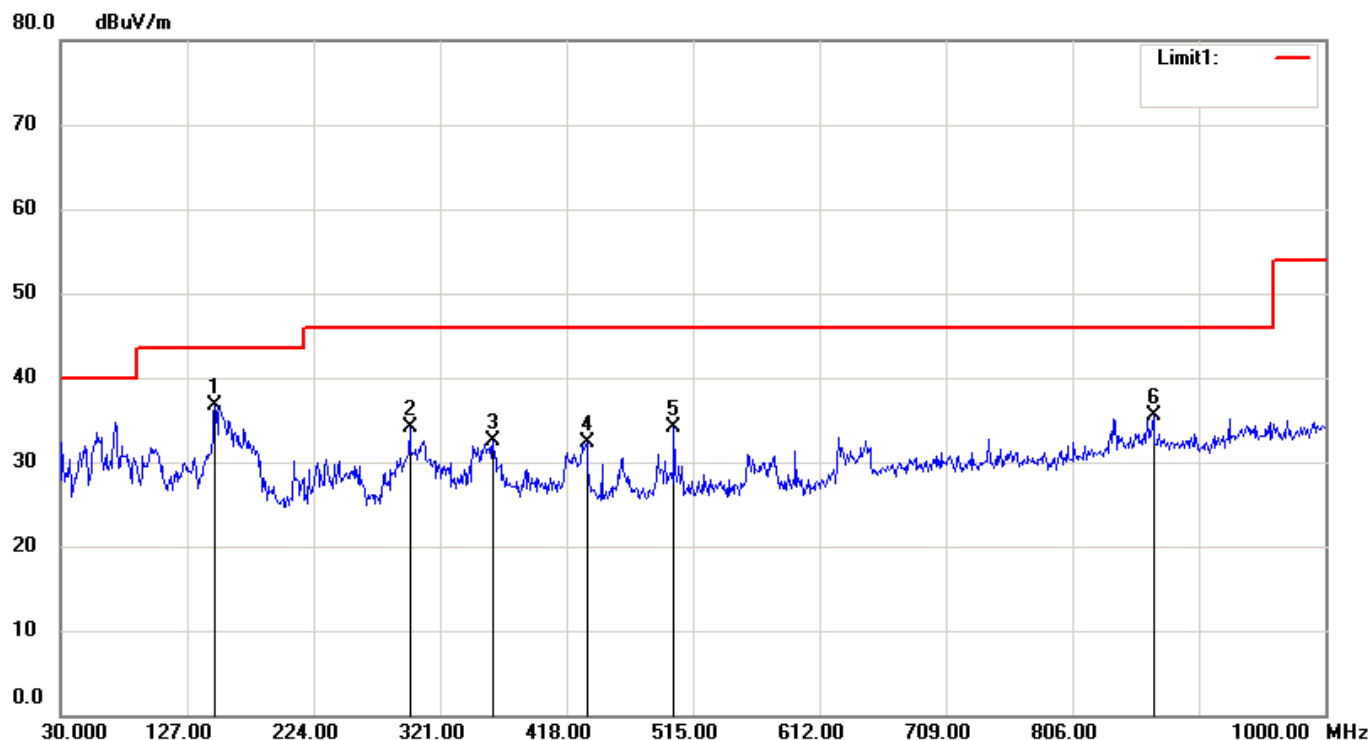
File: 20-10-MAS-019_Below 1G
Site: RE02-EMC B1-N2

#24

Date: 2020/11/12

Temperature: 22 °C

Humidity: 58 %



Condition: NCC_LP0002_30-1000MHz
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: Normal1
Note: HDMI+USB+BT+LAN

Polarization: Vertical
Distance: 3m
Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1*	148.3400	41.58	QP	-4.85	36.73	43.50	-6.77
2	297.7200	38.58	QP	-4.42	34.16	46.00	-11.84
3	361.7400	35.71	QP	-3.24	32.47	46.00	-13.53
4	433.5200	34.17	QP	-1.91	32.26	46.00	-13.74
5	500.4500	35.37	QP	-1.22	34.15	46.00	-11.85
6	868.0800	30.20	QP	5.39	35.59	46.00	-10.41

註：1. 若以峰值檢測功能測量之值符合準峰值限制值，則可視同以準峰值功能測量之值亦符合準峰值限制值。

2. 量測不準確度: +4.20dB/ -4.24 dB (30MHz ≤ f < 1GHz)

10.5.3.3 測試狀態: Mode K

File: 20-10-MAS-019_Below 1G

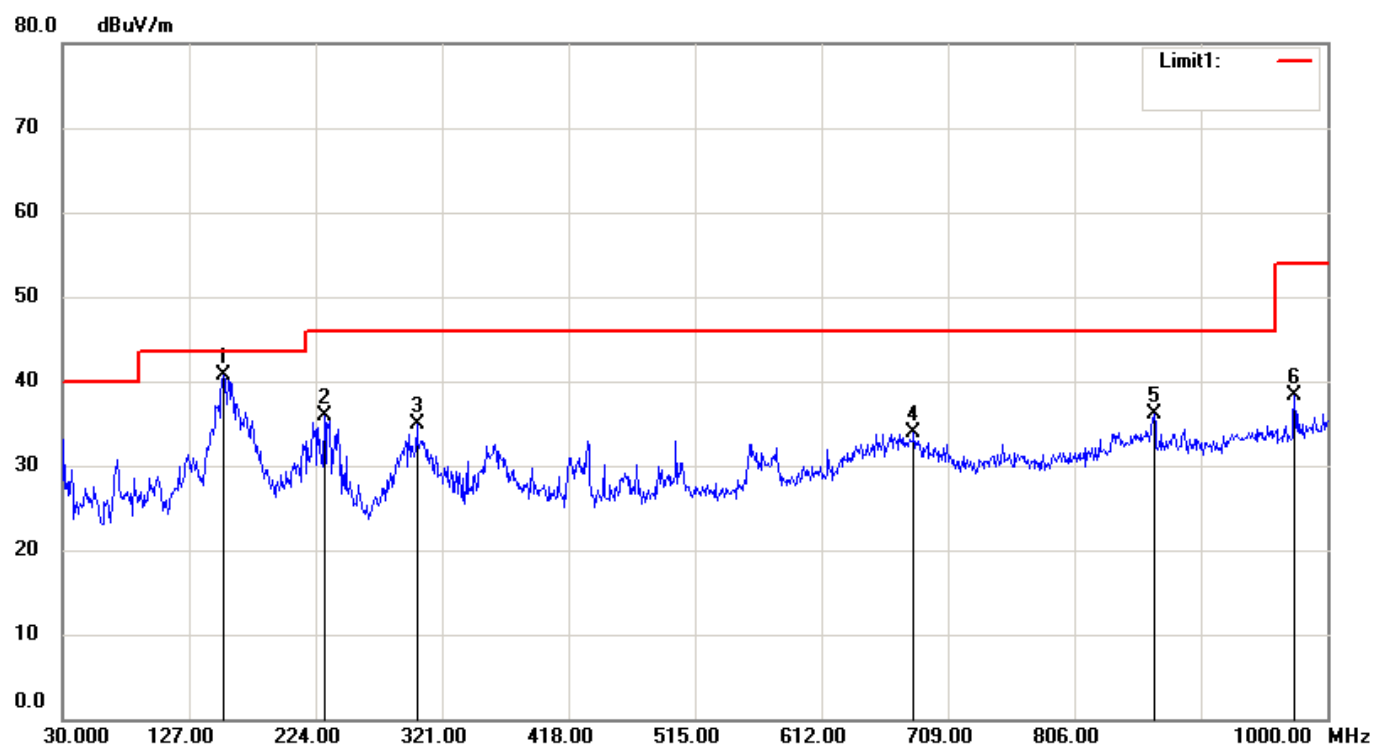
#25

Date: 2020/11/12

Temperature: 22 °C

Site: RE02-EMC B1-N2

Humidity: 58 %



Condition: NCC_LP0002_30-1000MHz
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: Normal2
 Note: HDMIUSB+ BT+WIFI

Polarization: Horizontal
 Distance: 3m
 Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1*	153.1900	46.14	QP	-5.49	40.65	43.50	-2.85
2	230.7900	43.45	QP	-7.63	35.82	46.00	-10.18
3	301.6000	39.34	QP	-4.36	34.98	46.00	-11.02
4	682.8100	31.61	QP	2.21	33.82	46.00	-12.18
5	867.1100	30.65	QP	5.37	36.02	46.00	-9.98
6	974.7800	30.74	QP	7.59	38.33	54.00	-15.67

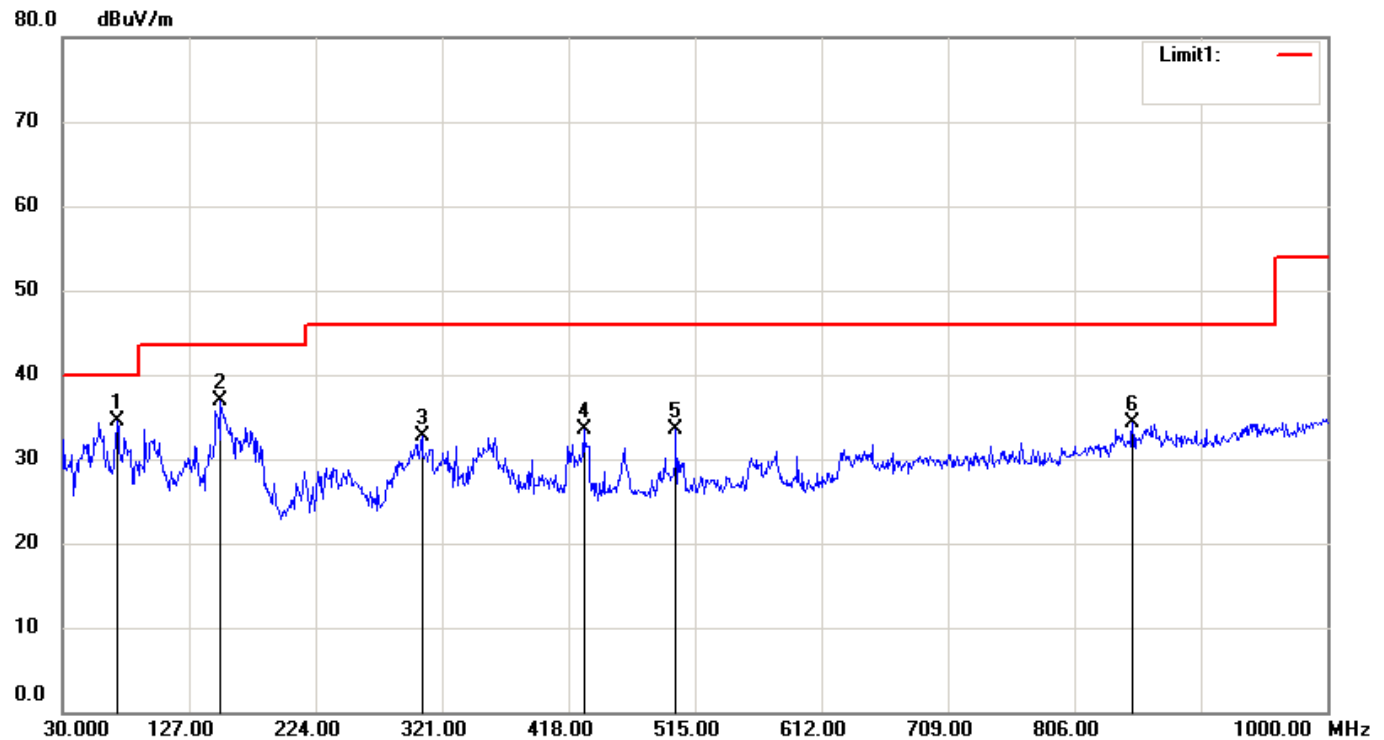
File: 20-10-MAS-019_Below 1G
Site: RE02-EMC B1-N2

#26

Date: 2020/11/12

Temperature: 22 °C

Humidity: 58 %



Condition: NCC_LP0002_30-1000MHz
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: Normal2
Note: HDMIUSB+BT+WIFI

Polarization: Vertical
Distance: 3m
Operator: Phillip

No.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1*	71.7100	47.06	QP	-12.48	34.58	40.00	-5.42
2	151.2500	42.21	QP	-5.22	36.99	43.50	-6.51
3	305.4800	37.07	QP	-4.30	32.77	46.00	-13.23
4	429.6400	35.46	QP	-1.90	33.56	46.00	-12.44
5	500.4500	34.67	QP	-1.22	33.45	46.00	-12.55
6	850.6200	29.03	QP	5.18	34.21	46.00	-11.79

註：1. 若以峰值檢測功能測量之值符合準峰值限制值，則可視同以準峰值功能測量之值亦符合準峰值限制值。

2. 量測不準確度: +4.20dB/ -4.24 dB ($30\text{MHz} \leq f < 1\text{GHz}$)

10.6 頻帶外邊緣輻射場強之量測結果

操作模式: 發射接收

測試日期: Nov. 10, 2020

環境溫度: 22°C

環境濕度: 58%

10.6.1 調變技術: IEEE 802.11a

輻射 頻率	儀器讀值@3m (dBuV/m)				校正 因子	結果值		限制值@3m		餘裕值 (worse)	
	水平		垂直			(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	峰值	平均值	峰值	平均值	(dB)	峰值	平均值	峰值	平均值	峰值	平均值
5150.000	27.52	13.08	27.16	13.08	38.47	65.99	51.55	74.00	54.00	-8.01	-2.45
5350.000	27.42	12.94	27.07	12.86	38.91	66.33	51.85	74.00	54.00	-7.67	-2.15

10.6.2 調變技術: IEEE 802.11ax (20MHz)

輻射 頻率	儀器讀值@3m (dBuV/m)				校正 因子	結果值		限制值@3m		餘裕值 (worse)	
	水平		垂直			(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	峰值	平均值	峰值	平均值	(dB)	峰值	平均值	峰值	平均值	峰值	平均值
5150.000	27.35	13.10	27.07	13.07	38.47	65.82	51.57	74.00	54.00	-8.18	-2.43
5350.000	27.15	12.96	27.11	12.87	38.91	66.06	51.87	74.00	54.00	-7.94	-2.13

10.6.3 調變技術: IEEE 802.11ax (40MHz)

輻射 頻率	儀器讀值@3m (dBuV/m)				校正 因子	結果值		限制值@3m		餘裕值 (worse)	
	水平		垂直			(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	峰值	平均值	峰值	平均值	(dB)	峰值	平均值	峰值	平均值	峰值	平均值
5150.000	27.08	13.10	27.18	13.07	38.47	65.65	51.57	74.00	54.00	-8.35	-2.43
5350.000	27.41	12.95	26.97	12.86	38.91	66.32	51.86	74.00	54.00	-7.68	-2.14

10.6.4 調變技術: IEEE 802.11ax (80MHz)

輻射 頻率	儀器讀值@3m (dBuV/m)				校正 因子	結果值		限制值@3m		餘裕值 (worse)	
	水平		垂直			(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	峰值	平均值	峰值	平均值	(dB)	峰值	平均值	峰值	平均值	峰值	平均值
5146.202	27.50	13.11	28.43	13.07	38.46	66.89	51.57	74.00	54.00	-7.11	-2.43
5350.000	27.82	14.10	27.84	13.26	38.91	66.75	53.01	74.00	54.00	-7.25	-0.99

註: 1. 量測不準確度: $\pm 4.1\text{dB}$ ($1\text{GHz} \leq f \leq 18\text{GHz}$)

2. 量測頻率範圍為 4500 ~ 5250 MHz 及 5350 ~ 5460 MHz，並記錄兩頻率範圍中之最大讀值。

10.7 頻帶外邊緣直接量測之量測結果

調變技術: IEEE 802.11a

File: 20-10-MAS-019_5-3a_ANT1

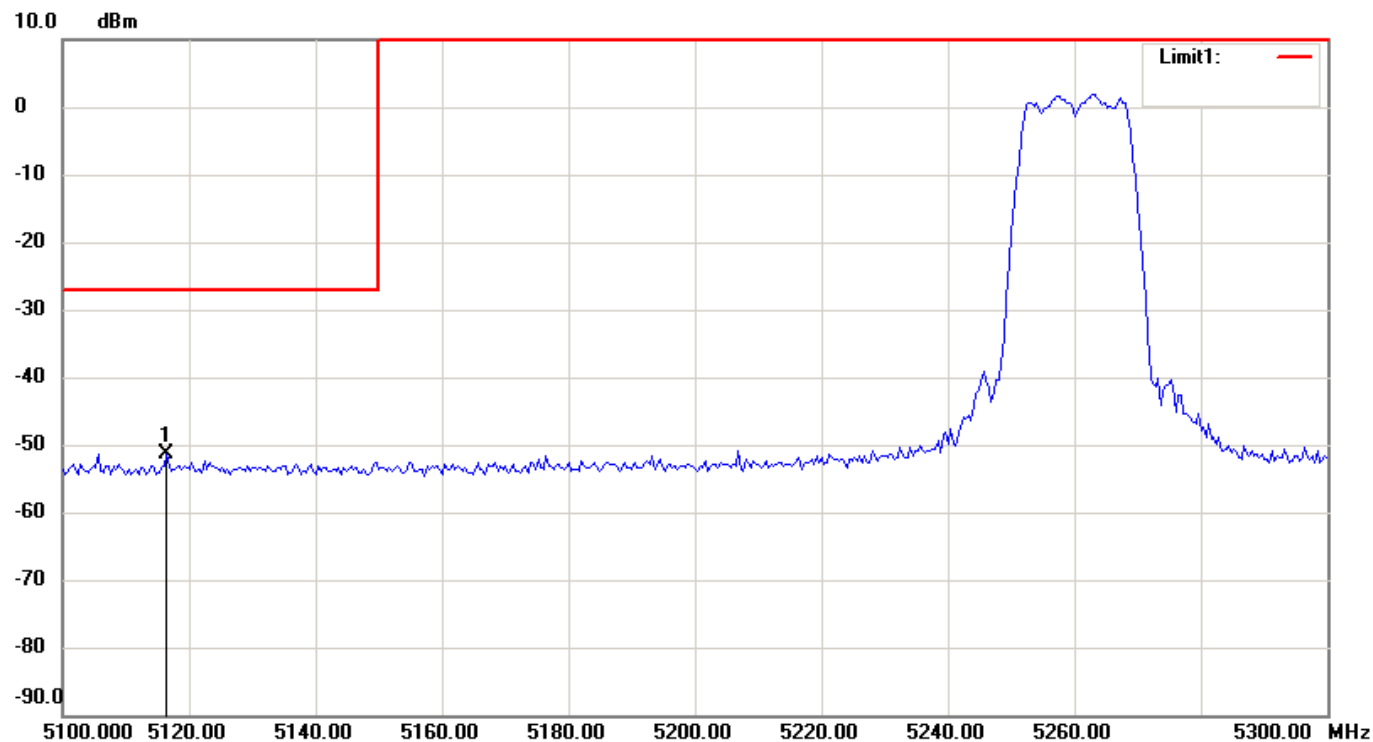
#7

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition:

UNII-Band1-2-Bandedge

RF Conducted

EUT:

Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model:

DFI-D1000AA

RBW: 1000 KHz

VBW: 3000 KHz

Test Mode:

UNII

Operator:

Phillip

Note:

NCC_LP0002_802.11a Channel 52_Low_Bandedge

No.	Frequency(MHz)	Level(dBm)
1	5116.40000	-51.38

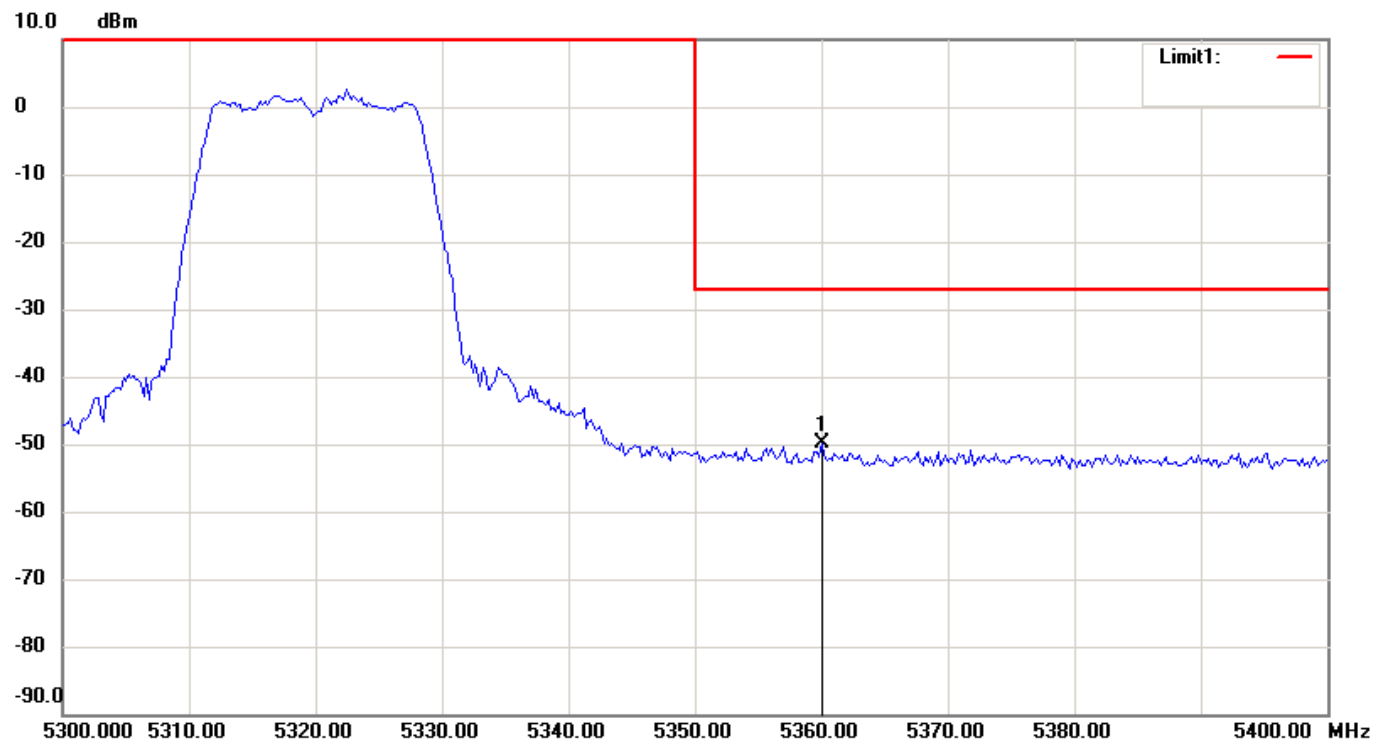
File: 20-10-MAS-019_5-3a_ANT1
Site: RF-Cond01

#20

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11a Channel 64_High_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5360.00000	-49.78

調變技術: IEEE 802.11ax (20MHz)

CHAIN 0

File: 20-10-MAS-019_5-3ax20_ANT1

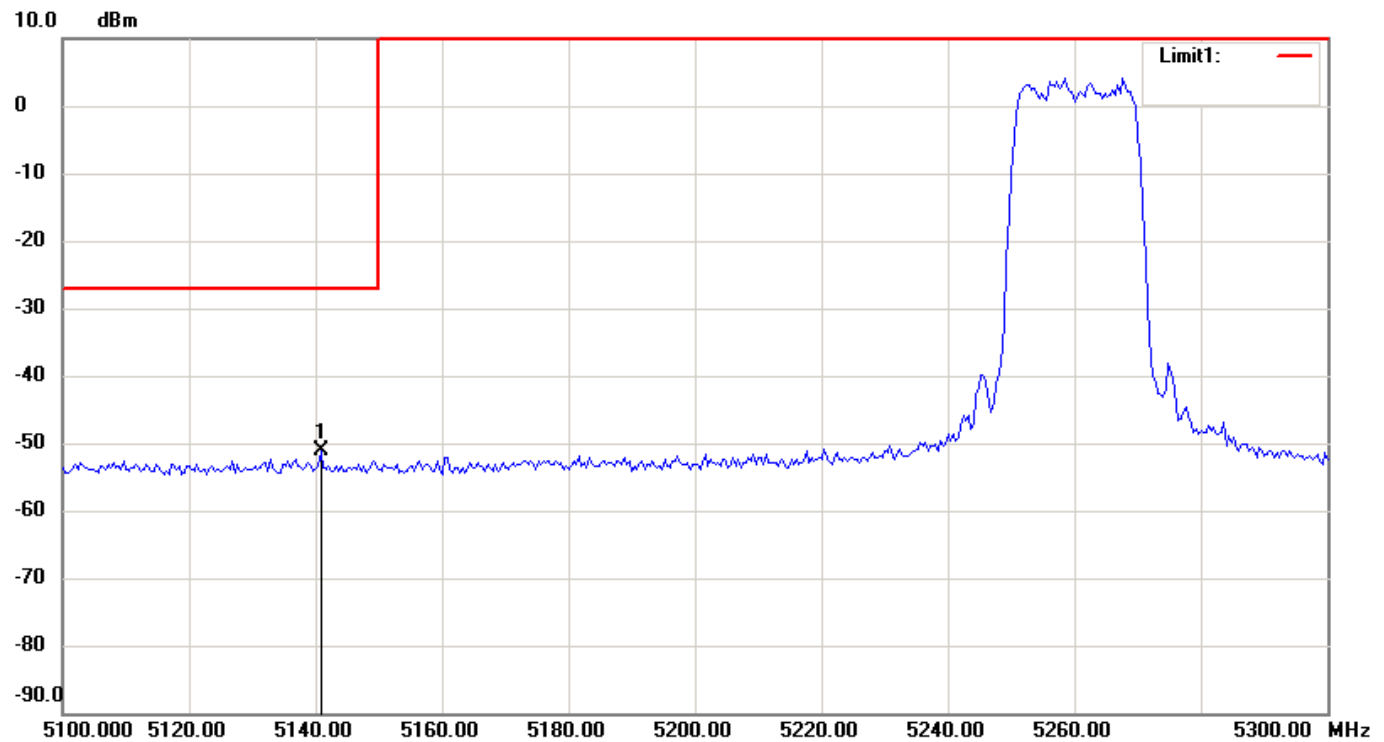
#7

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20 Channel 52_Low_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5140.80000	-51.04

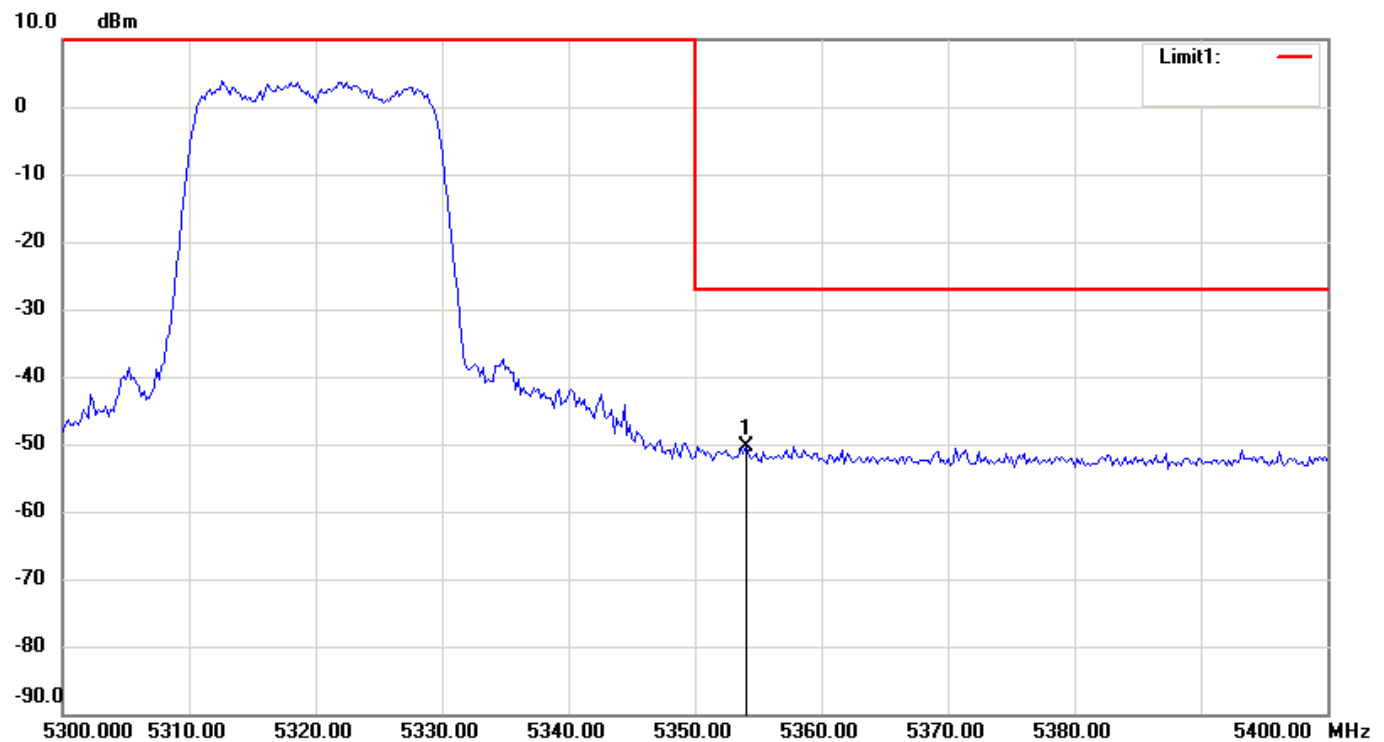
File: 20-10-MAS-019_5-3ax20_ANT1
 Site: RF-Cond01

#20

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax20 Channel 64_High_Bandedge

RF Conducted
 Sweep Time: 1ms Att.: 15dB
 RBW: 1000 KHz VBW: 3000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5354.00000	-50.26

CHAIN 1

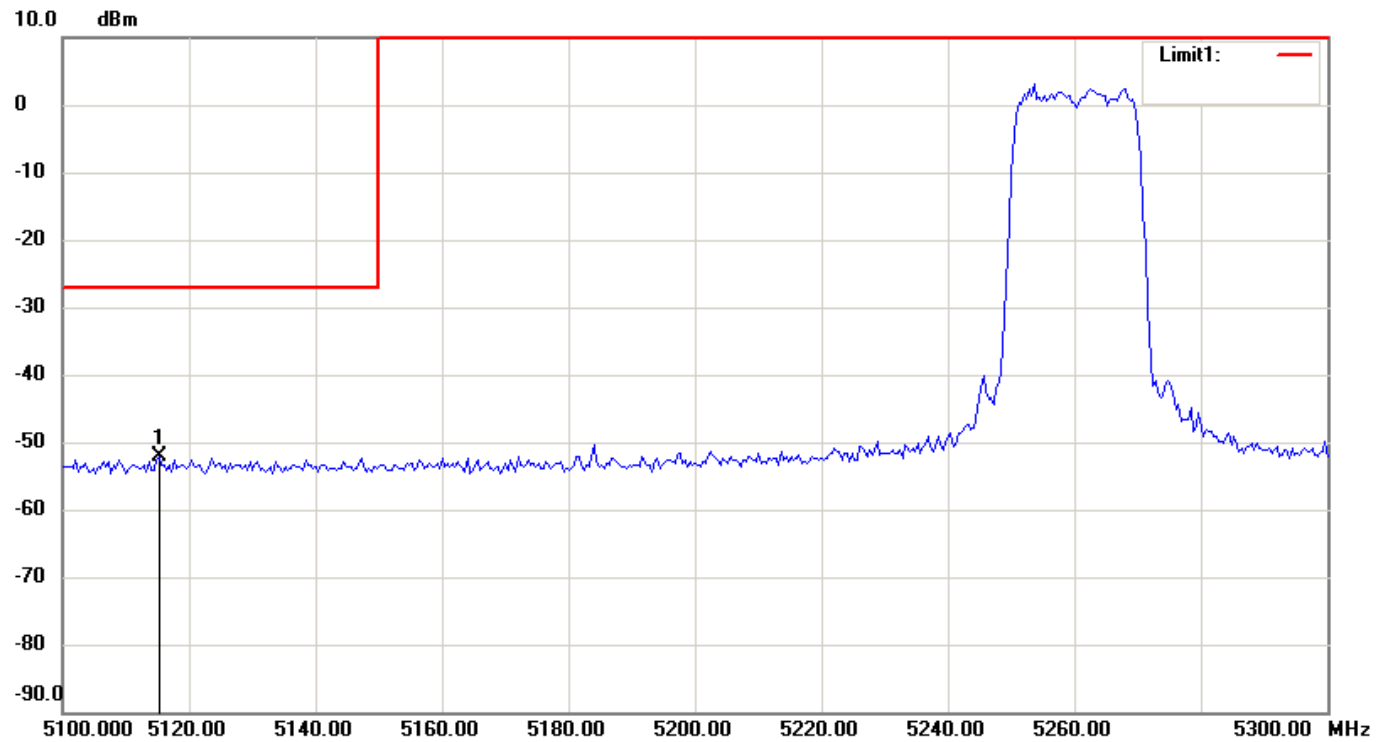
File: 20-10-MAS-019_5-3ax20_ANT2
Site: RF-Cond01

#7

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax20 Channel 52_Low_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5115.20000	-52.11

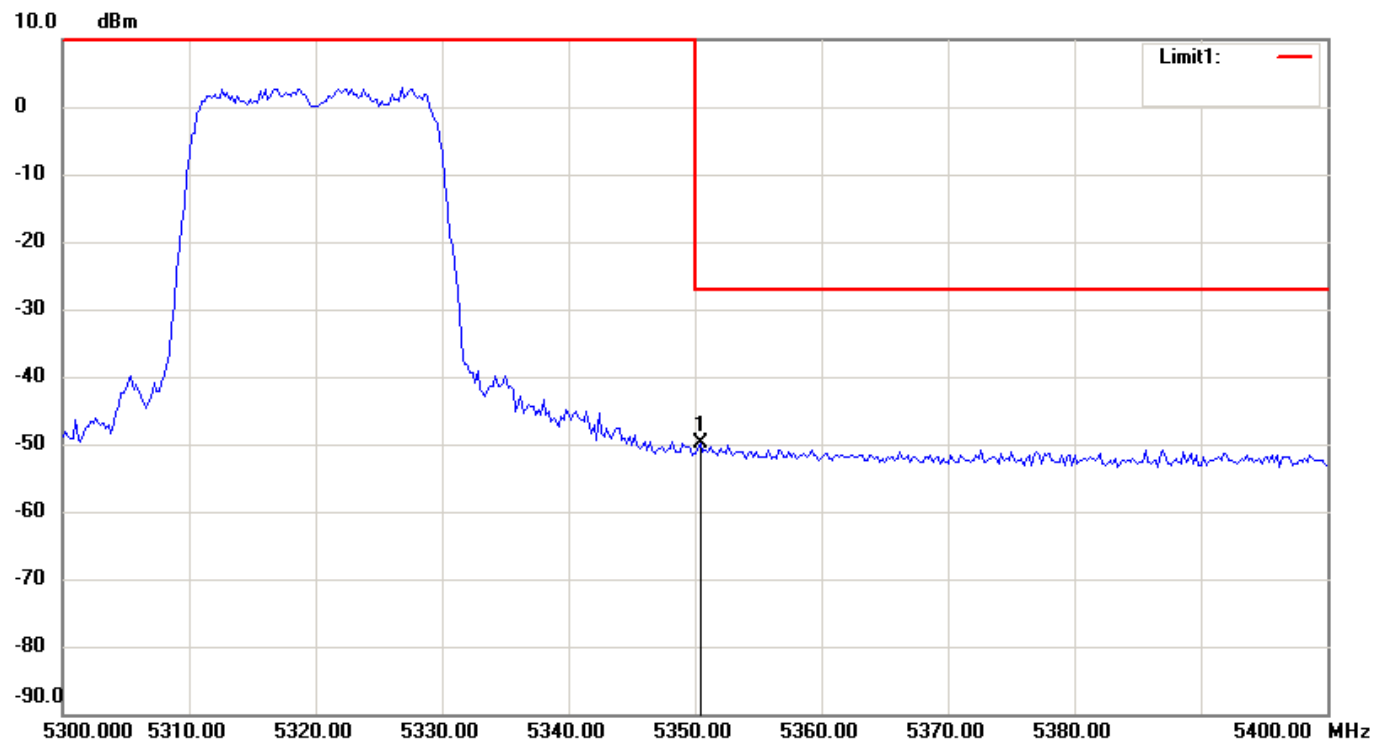
File: 20-10-MAS-019_5-3ax20_ANT2
 Site: RF-Cond01

#20

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax20 Channel 64_High_Bandedge

RF Conducted
 Sweep Time: 1ms Att.: 15dB
 RBW: 1000 KHz VBW: 3000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5350.40000	-49.76

調變技術: IEEE 802.11ax (40MHz)

CHAIN 0

File: 20-10-MAS-019_5-3ax40_ANT1

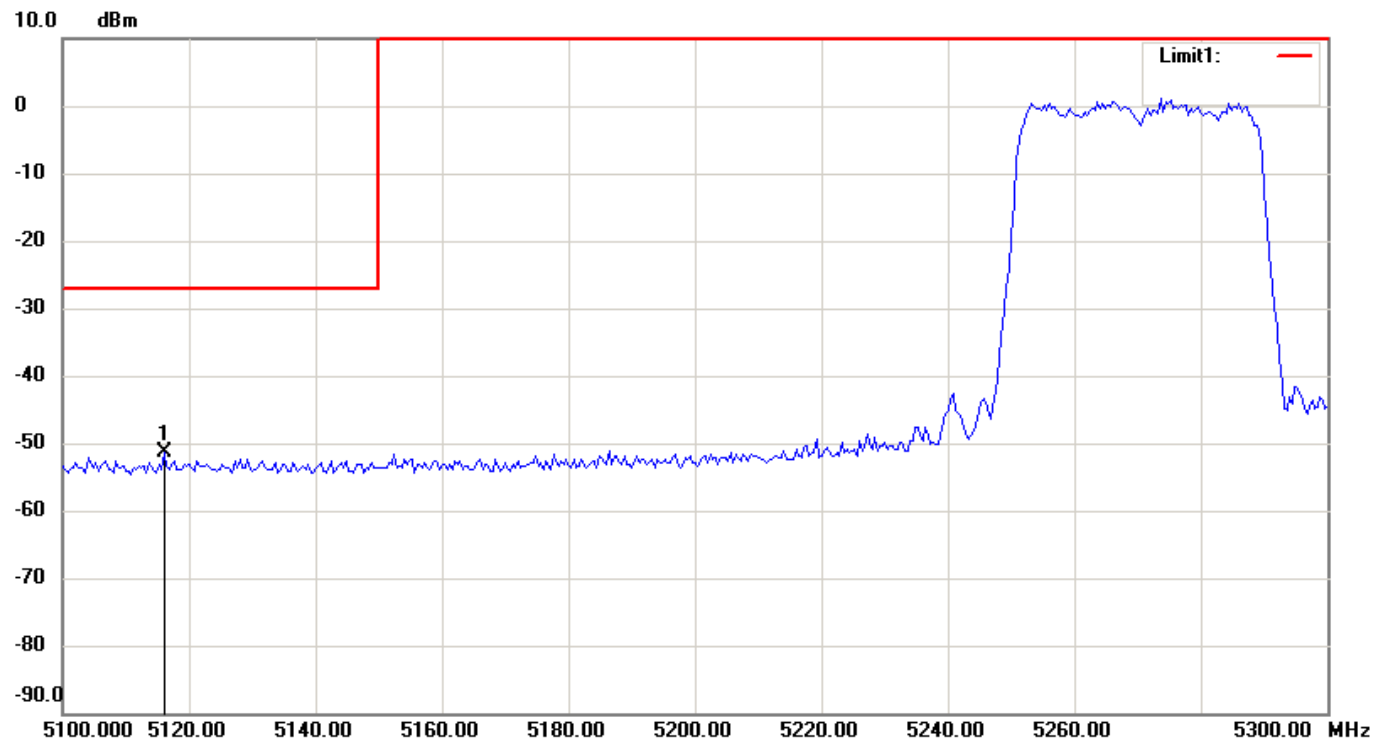
#7

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40 Channel 54_Low_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5116.00000	-51.46

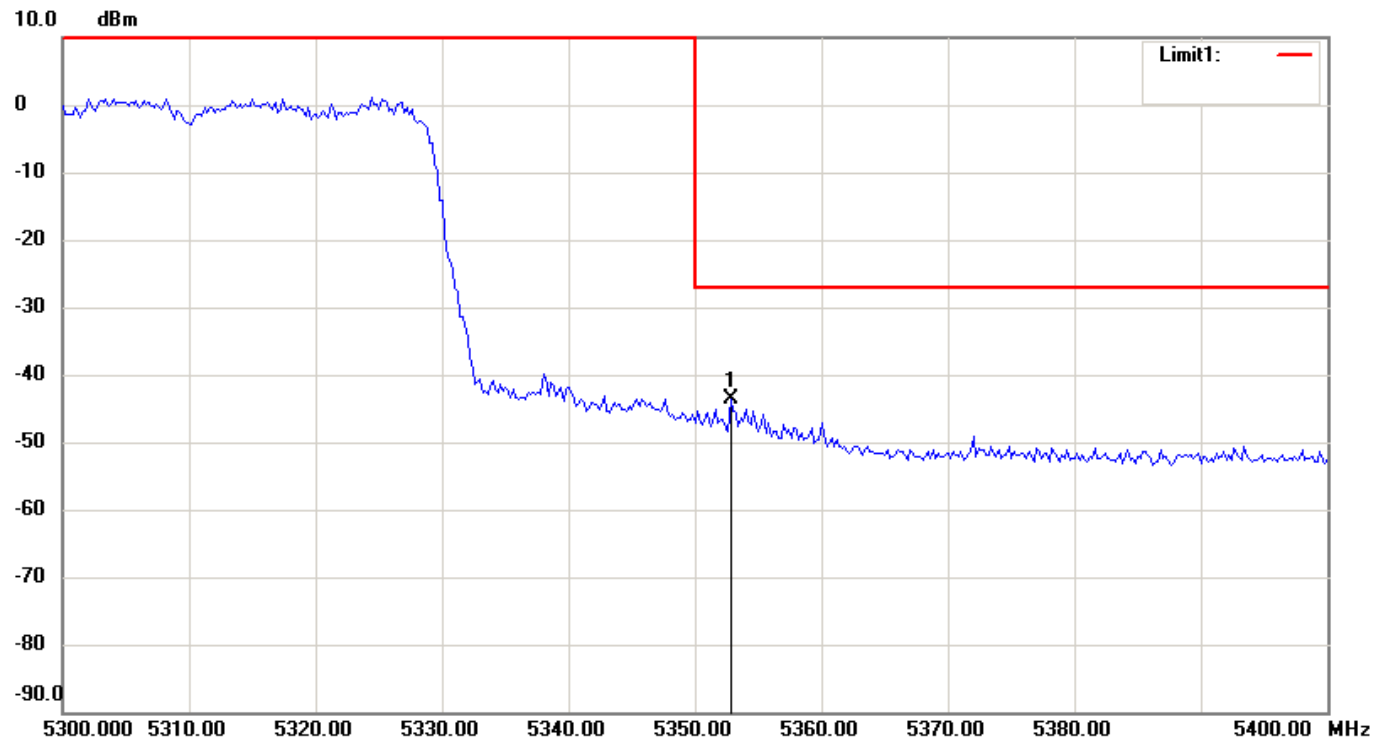
File: 20-10-MAS-019_5-3ax40_ANT1
Site: RF-Cond01

#14

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40 Channel 62_High_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5352.80000	-43.73

CHAIN 1

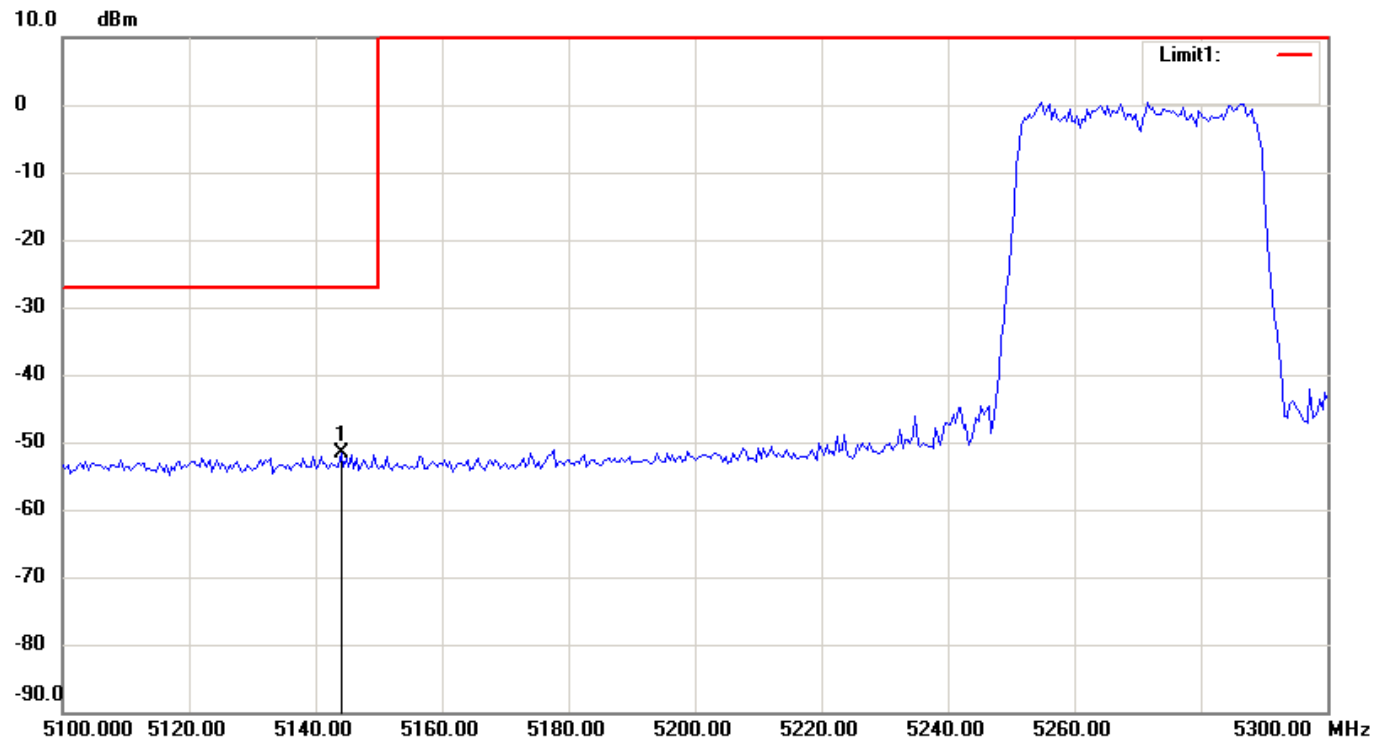
File: 20-10-MAS-019_5-3ax40_ANT2
 Site: RF-Cond01

#7

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax40 Channel 54_Low_Bandedge

RF Conducted
 Sweep Time: 1ms Att.: 15dB
 RBW: 1000 KHz VBW: 3000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5144.00000	-51.69

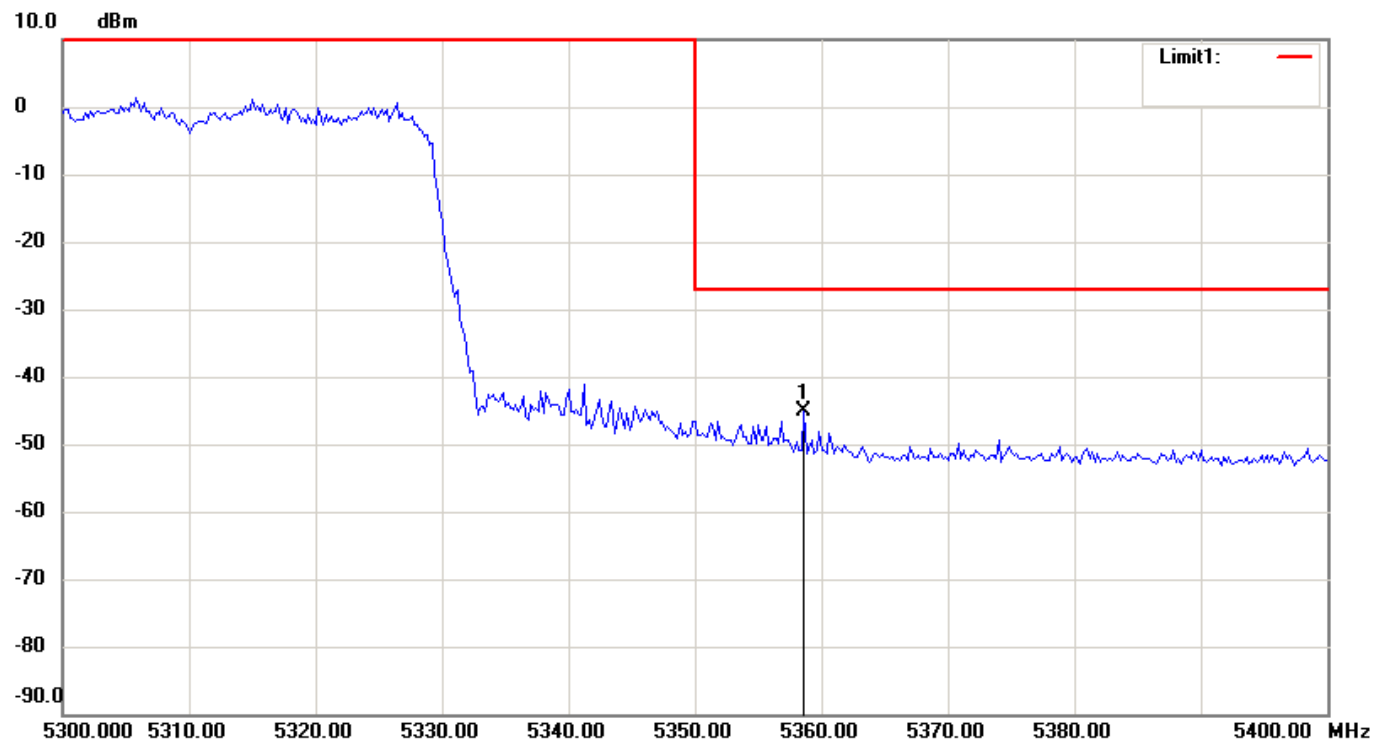
File: 20-10-MAS-019_5-3ax40_ANT2
Site: RF-Cond01

#14

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



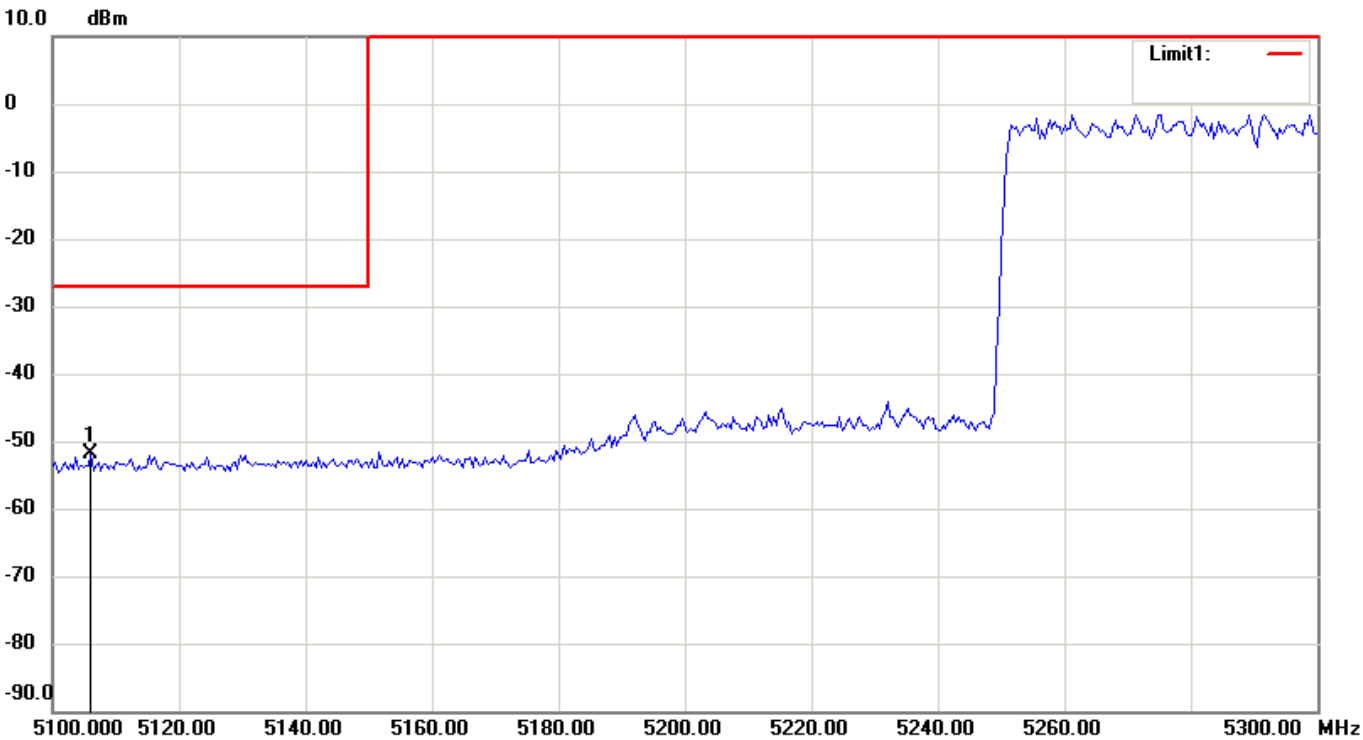
Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax40 Channel 62_High_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5358.60000	-45.06

調變技術: IEEE 802.11ax80
CHAIN 0

File: 20-10-MAS-019_5-3ax80_ANT1 #7 Date: 2020/10/30 Temperature: 24 °C
Site: RF-Cond01 Humidity: 51 %



Condition:	UNII-Band1-2-Bandedge	RF Conducted	
EUT:	Development Kit for PlayStation5	Sweep Time: 1ms	Att.: 15dB
Model:	DFI-D1000AA	RBW: 1000 KHz	VBW: 3000 KHz
Test Mode:	UNII	Operator:	Phillip
Note:	NCC_LP0002_802.11ax80 Channel 58_Low_Bandedge		

No.	Frequency(MHz)	Level(dBm)
1	5106.00000	-51.92

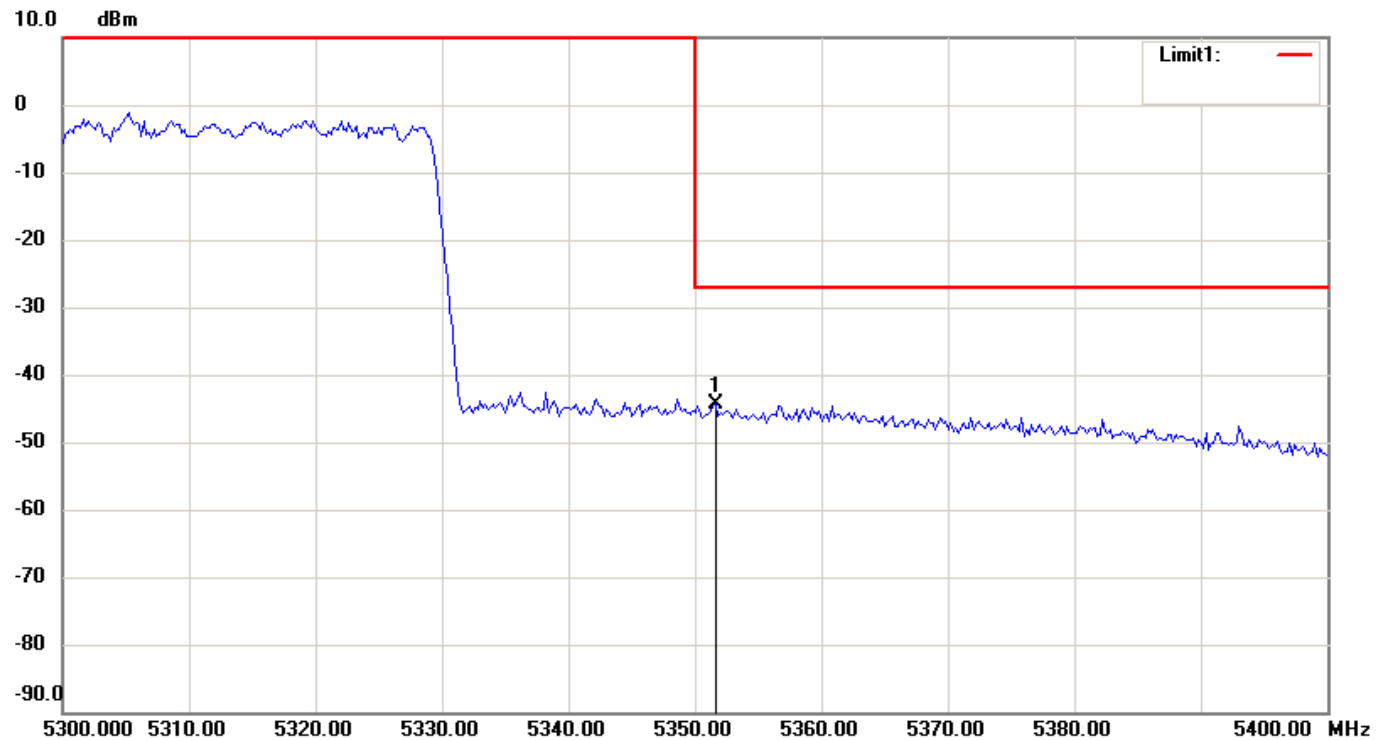
File: 20-10-MAS-019_5-3ax80_ANT1
Site: RF-Cond01

#8

Date: 2020/10/30

Temperature: 24 °C

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
EUT: Development Kit for PlayStation5
Model: DFI-D1000AA
Test Mode: UNII
Note: NCC_LP0002_802.11ax80 Channel 58_High_Bandedge

RF Conducted
Sweep Time: 1ms Att.: 15dB
RBW: 1000 KHz VBW: 3000 KHz
Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5351.60000	-44.28

CHAIN 1

File: 20-10-MAS-019_5-3ax80_ANT2

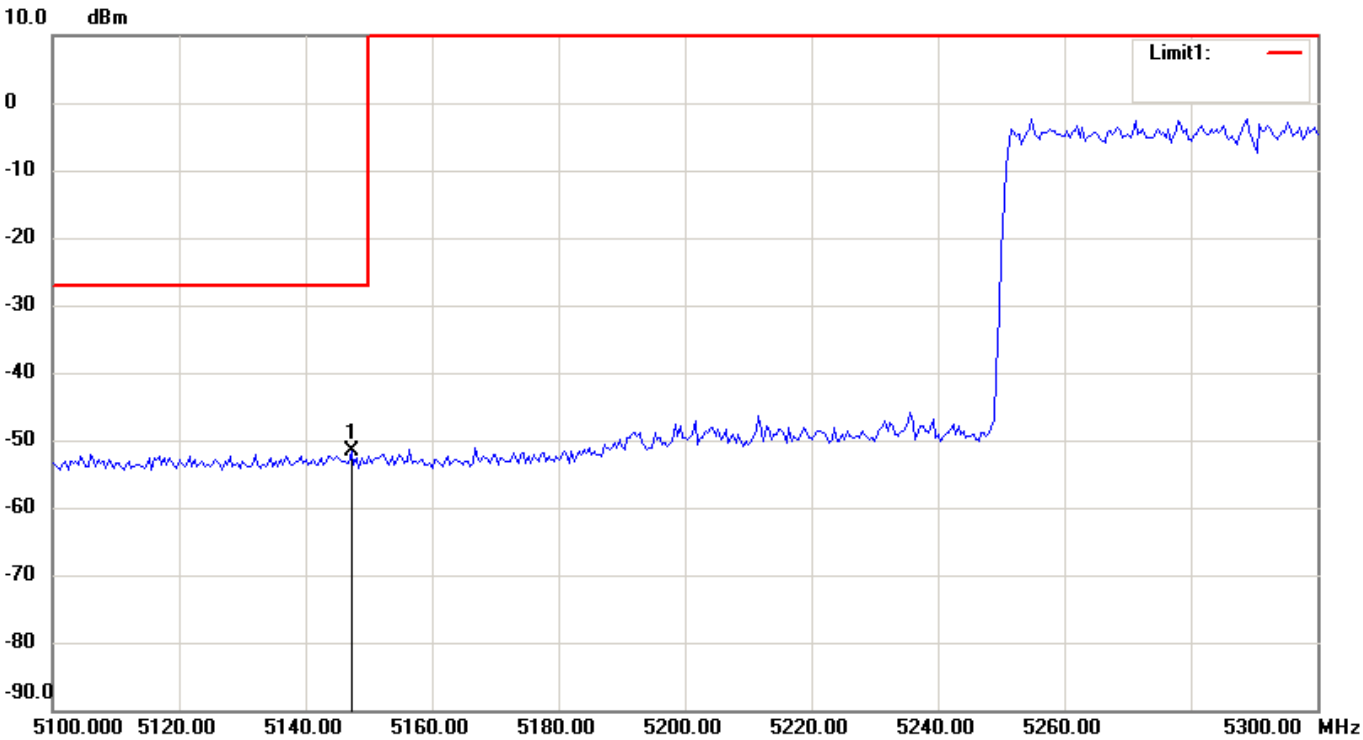
#7

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge

RF Conducted

EUT: Development Kit for PlayStation5

Sweep Time: 1ms Att.: 15dB

Model: DFI-D1000AA

RBW: 1000 KHz VBW: 3000 KHz

Test Mode: UNII

Operator: Phillip

Note: NCC_LP0002_802.11ax80 Channel 58_Low_Bandedge

No.	Frequency(MHz)	Level(dBm)
1	5147.20000	-51.59

File: 20-10-MAS-019_5-3ax80_ANT2

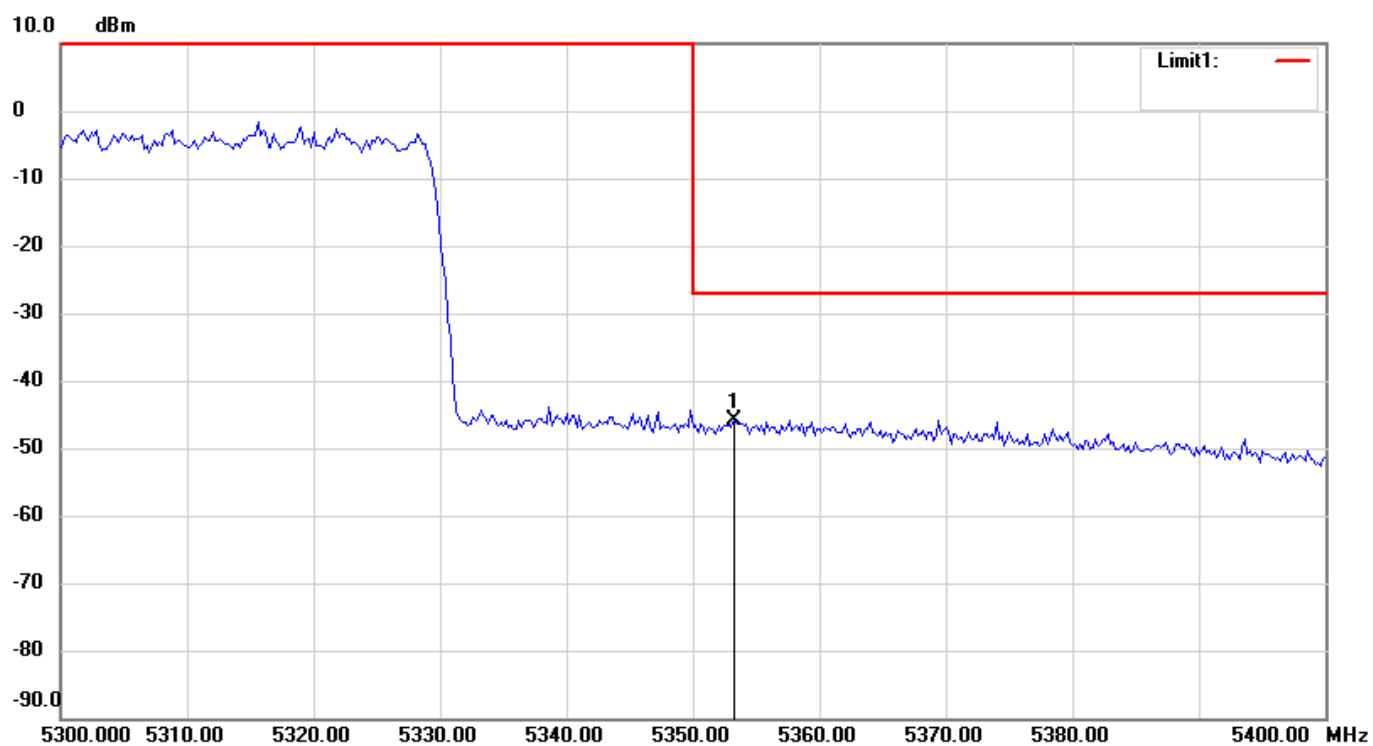
#8

Date: 2020/10/30

Temperature: 24 °C

Site: RF-Cond01

Humidity: 51 %



Condition: UNII-Band1-2-Bandedge
 EUT: Development Kit for PlayStation5
 Model: DFI-D1000AA
 Test Mode: UNII
 Note: NCC_LP0002_802.11ax80 Channel 58_High_Bandedge

RF Conducted
 Sweep Time: 1ms Att.: 15dB
 RBW: 1000 KHz VBW: 3000 KHz
 Operator: Phillip

No.	Frequency(MHz)	Level(dBm)
1	5353.20000	-45.82

10.8 結果判定

以上頻帶外邊緣測試之結果皆低於限制值-27dBm，合乎標準規定。

10.9 輻射之測試配置

圖 3: 量測頻率低於1GHz之測試配置

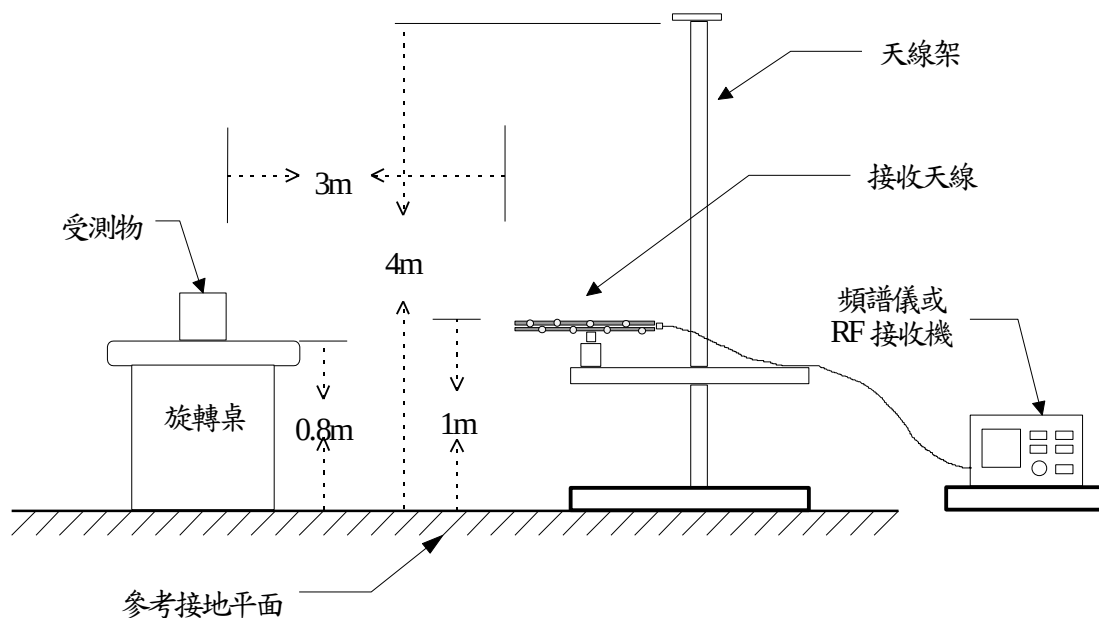
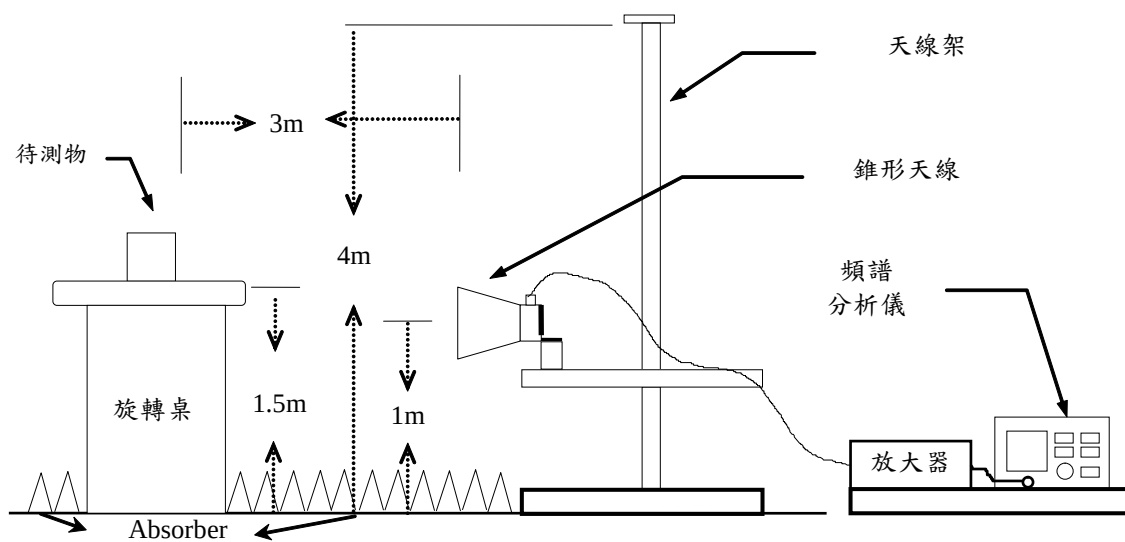


圖 4: 量測頻率高於1GHz之測試配置



10.10 輻射量測之配置照片

請參考產品照片

11 發射功率控制(TPC)之量測

11.1 發射功率控制(TPC)適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範4.7.7.1節之規定，操作於 5.25GHz ~5.35GHz 與5.470GHz~5.725GHz 頻段的設備，應具備發射功率控制機能。設備必須至少具有6dB 低於平均 EIRP 30dBm 的能力。EIRP 低於 500mW 之系統不須具備 TPC機能。

11.2 發射功率控制(TPC)之測試配置

如圖 2 所示。

11.3 適用性

Highest Power Level in DFS Bnd (EIRP)		11.36dBm +6.64 dBi =18.36dBm =68.55 mW
☒	EIRP < 500 mW	Not Applicable
☐	EIRP $\geq$ 500 mW	Applicable

12 動態頻率選擇(DFS)之量測

12.1 LIMITS

依據國家通訊傳播委員會低功率射頻電機技術規範 4.7.7.2 節之規定與 FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 4: DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right), \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

12.2 產品描述

12.2.1 待測物

DFS 操作頻帶	☒ 5250MHz~5350MHz
操作模式	☐ 主控 (Master)
	☒ 受控 (Client without In-Service Monitoring)
	☐ 受控 (Client with In-Service Monitoring)
頻道負載運作方式	☒ IP Based System
	☐ Frame Based System
	☐ Other System _____

Note: The tested level is lower than the required level hence it provides margin to the limit.

12.3 測試系統

12.3.1 系統描述

12.3.1.1 雷達信號

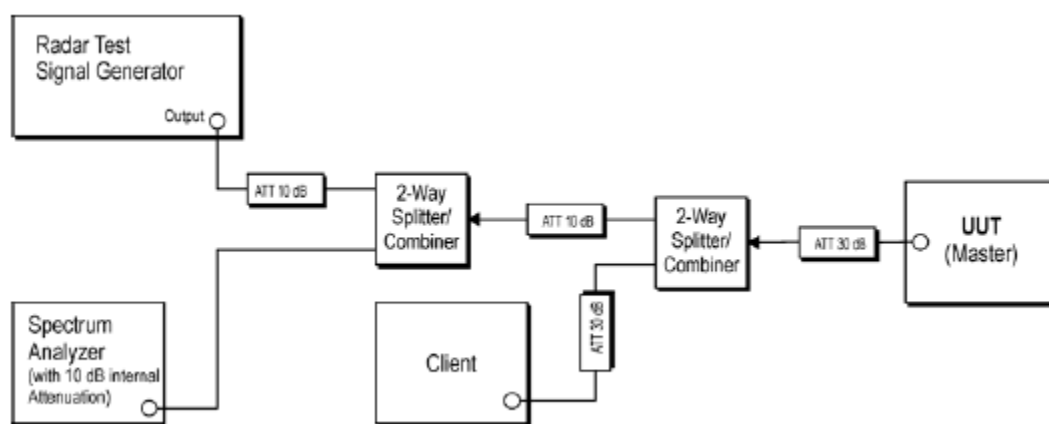
所有雷達信號依據 FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 之規定產生。

12.3.1.2 參考信號負載

無線傳輸信號負載使用由美國電信資訊署(N.T.I.A)參考系統所提供之 MPEG 影像檔。
資料傳送方向由 Master 傳送到 Client。

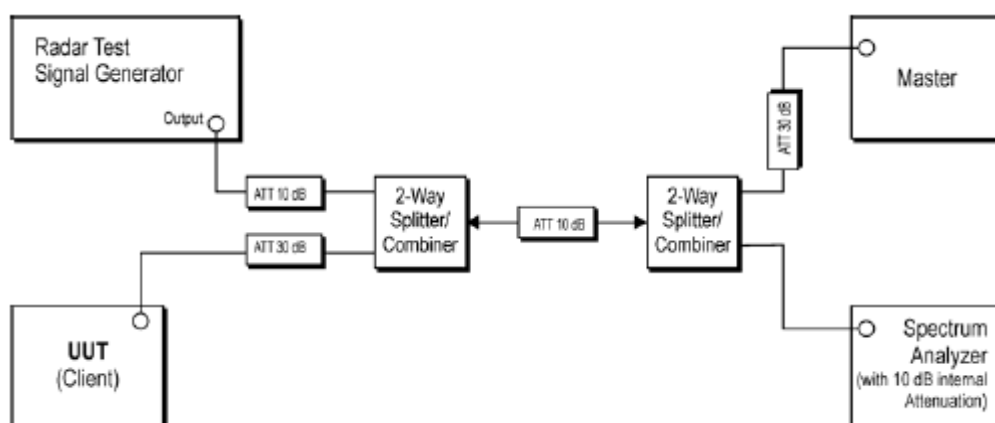
12.3.2 系統配置

12.3.2.1 Setup for Master with injection at the Master



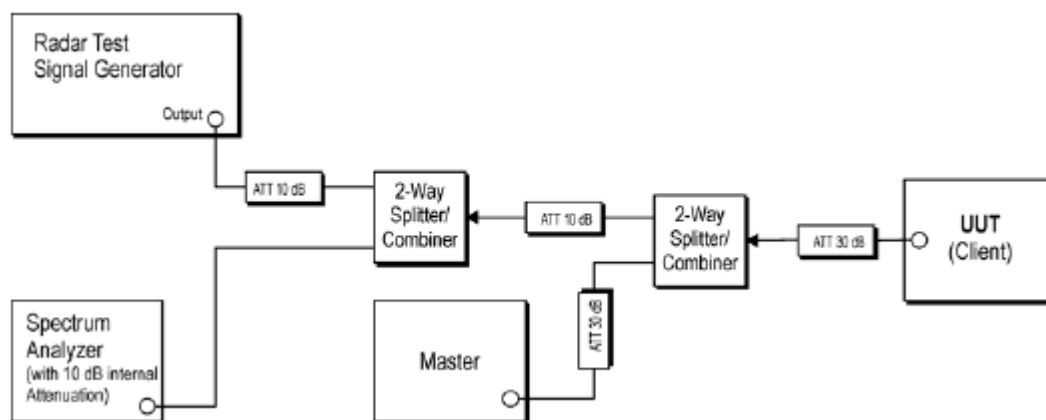
主控設備配置圖

12.3.2.2 Setup for Client with injection at the Master



受控設備配置圖 1(Client without In-Service Monitoring)

12.3.2.3 Setup for Client with injection at the Client



受控設備配置圖 2 (Client with In-Service Monitoring)

12.3.3 量測儀器

儀器名稱	製造者	型 號
Spectrum Analyzer	R&S	FSU46
Vector Signal Generator	R&S	SMU200A

12.3.4 使用週邊

裝置名稱	製造者/代理者	型 號	纜 線 說 明
Notebook	Dell	Inspiron 1420	非隔離電源線 3.3m*1 / Adaptor 非隔離信號線 1.0m*1/RJ45
Notebook	HP	650G1	非隔離電源線 2.8m*1 / Adaptor 非隔離信號線 1.0m*1/RJ45
Access Point	ASUS	RT-AX88U	非隔離電源線 2.3m* 1/Adapter

12.4 測試頻道及測試方法

12.4.1

測試方法	☒ 直接量測方式	☐ 輻射方式
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12.4.2 使用雷達信號

使用 Short Pulse Radar Type 0 ， Level = -64dBm 。

12.5 量測結果

12.5.1 Radar TYPE 0 CHANNEL MOVE TIME RESULTS

結果判定：符合標準規定。

Modulation	Operation Frequency (MHz)	Channel Move Time (s)	Limit (s)
IEEE 802.11ax HE80	5290	< 10S	10

File

20-10-MAS-019_5-3

Dat

2020/10/23

Temperature:

23 °C

:

e:

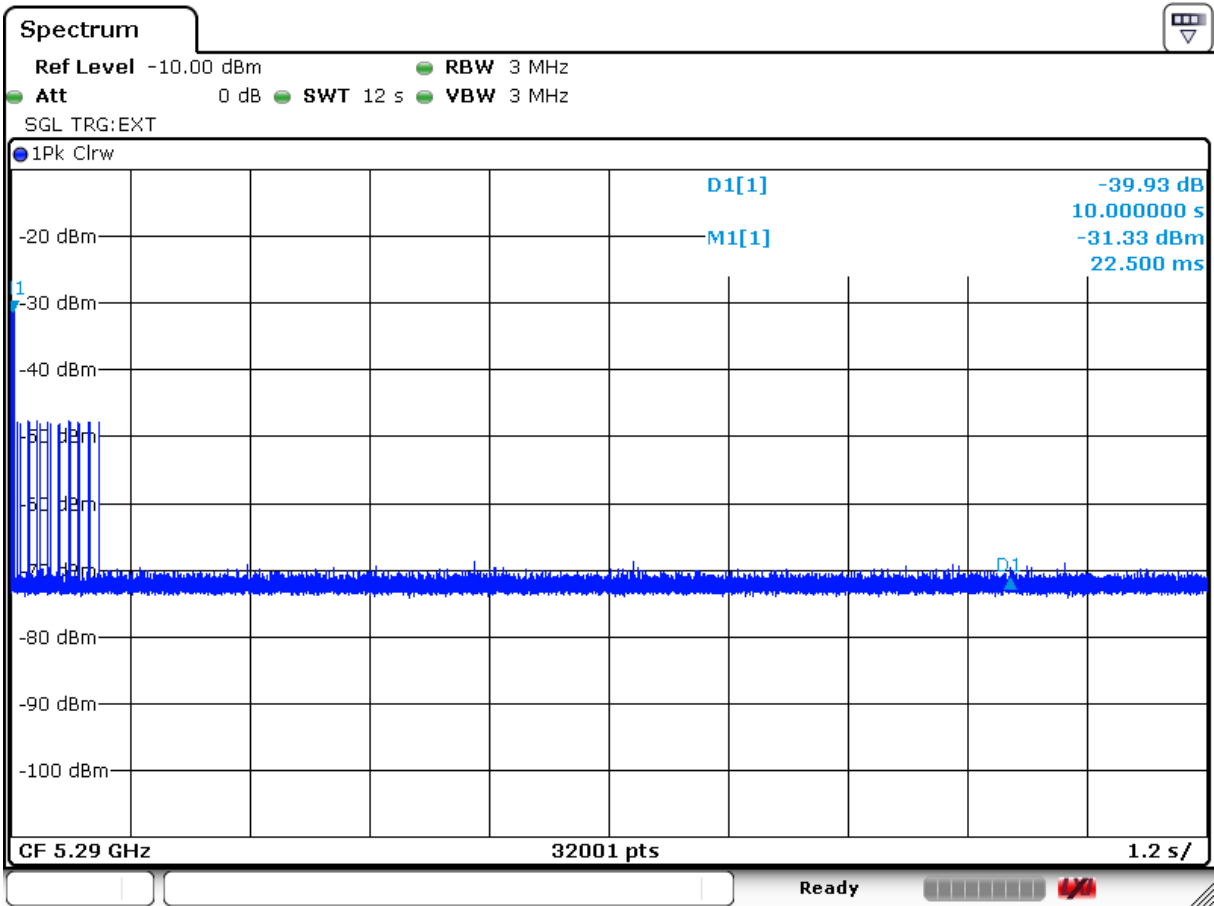
Site

RF-Cond02

Humidity:

57 %

:



Condition:

NCC_LP0002

RF Conducted

EUT:

Development Kit for PlayStation5

Model:

DFI-D1000AA

Test Mode:

UNII

Operator:

Phillip

Note:

12S-1

12.5.2 Radar TYPE 0 CHANNEL CLOSING TRANSMISSION TIME RESULTS

The following plot demonstrates a channel close time of <200ms, with an aggregate of no more than 60 ms.

結果判定：符合標準規定。

Modulation	Operation Frequency (MHz)	Aggregate Transmission Time (ms)	Limit (ms)
IEEE 802.11ax HE80	5290	11	60

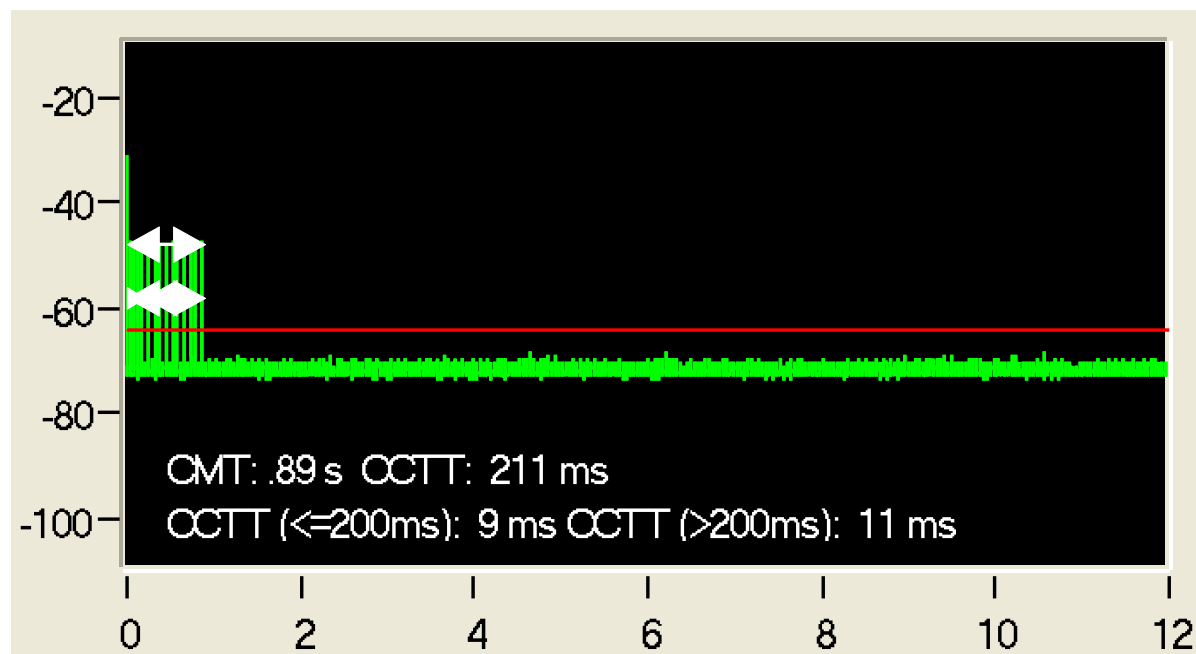
File: 20-10-MAS-019_5-3

Date: 2020/10/23

Temperature: 23 °C

Site: RF-Cond02

Humidity: 57 %



Condition: NCC_LP0002

RF Conducted

EUT: Development Kit for PlayStation5

Model: DFI-D1000AA

Test Mode: UNII

Operator: Phillip

Note: 12S-2

Aggregate Transmission Time =
(Number of analyzer bins showing Transmission) * (dwell time per bin)
=11 ms

12.5.3 Non-occupncy Period (Associated Test)

No EUT Transmissions were observed on the test channel during the 30-minute observation time.

結果判定：符合標準規定。

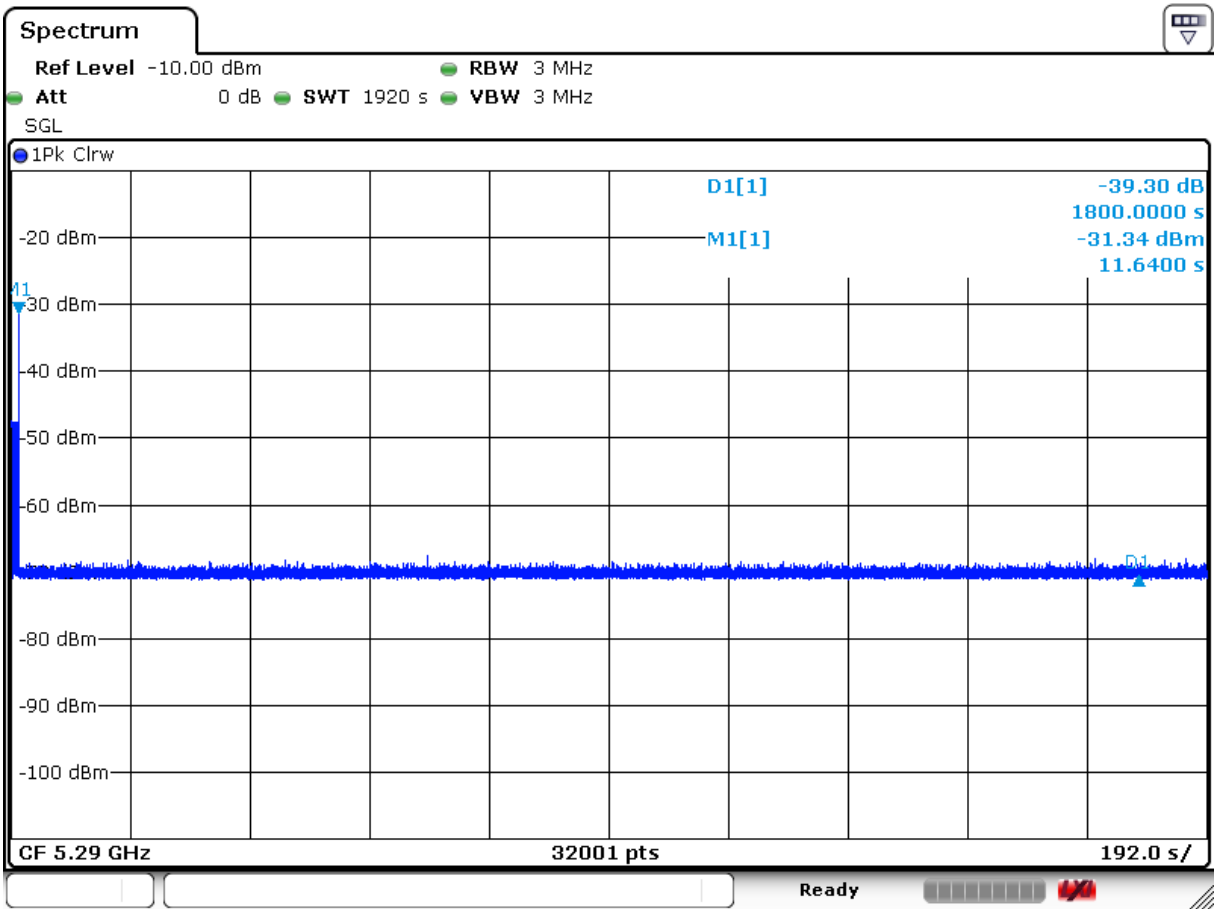
File: 20-10-MAS-019_5-3

Date: 2020/10/23

Temperature: 23 °C

Site: RF-Cond02

Humidity: 57 %



Condition:	NCC_LP0002	RF Conducted
EUT:	Development Kit for PlayStation5	
Model:	DFI-D1000AA	
Test Mode:	UNII	Operator: Phillip
Note:	30 mins	

13 量測之儀器

儀器名稱	製造者	型 號	財產編號/序號	校驗日期	下次校驗日期
EMI Test Receiver	R&S	ESCI	13054418-001	11/26/2019	11/25/2020
V-LISN	R&S	ENV216	13057719-001	09/14/2020	09/13/2021
Spectrum Analyzer	R&S	FSV	13052017-001	06/12/2020	06/11/2021
Attenuator	WEINSCHEL	56-10	58772	04/24/2020	04/23/2021
EMI Receiver	R&S	ESCI	13054423-001	12/24/2019	12/25/2020
Spectrum Analyzer	R&S	FSU46	13040904-001	05/28/2020	05/27/2021
Horn Antenna	EMCO	3117	13059211-004	04/21/2020	04/20/2021
Horn Antenna	EMCO	3116	13059202-001	11/15/2019	11/14/2020
PRE-Amplifier	Agilent	8449B	13040709-001	12/31/2019	12/30/2020
PRE-Amplifier	Agilent	8447D	13040715-002	04/22/2020	04/21/2021
BiLog Antenna	ETC	MCTD 2786	BL19J04024	01/14/2020	01/13/2021
PRE-Amplifier	Agilent	83051A	13052916001	09/18/2020	09/17/2021
Vector Signal Generator	R&S	SMU200A	13549901-002	06/08/2020	06/07/2021