

低功率射頻電機試驗報告

申請廠商 廣達電腦股份有限公司
桃園市龜山區文化二路188號
製造廠商 Google LLC
產品名稱 谷歌眼鏡企業版2
廠牌 GLASS
型號 GG2
發射功率 請見本報告第1.1章節產品描述
工作頻率 請見本報告第1.1章節產品描述
調變方式 OFDM
使用規範 LP0002 4.7節

實驗室資訊

程智科技股份有限公司 五股實驗室

新北市五股區五工六路11號

認證有效期間：105年10月18日起至108年10月17日止

受理日期 民國108年05月16日

完成日期 民國108年07月22日

蔡永譚



報告簽署人
蔡永譚 簽章

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190514W01-RD4	Rev.00	Initial creation of document	All	Jul. 10, 2019	Violetta Tang
T190514W01-RD4	Rev.01	Update information	10,138	Jul. 22, 2019	Violetta Tang

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測試標準

國家通訊傳播委員會低功率射頻電機技術規範

民國 107 年 1 月 10 日版本

待測裝置已於台灣檢驗科技股份有限公司電子通訊實驗室，依據國家通訊傳播委員會於中華民國一百零七年一月頒佈之低功率射頻電機技術規範測試。

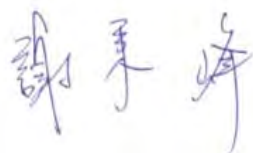
台灣檢驗科技股份有限公司根據此條文規範項目測試，測試各項數據皆能符合此規範規定之限度值。

台灣檢驗科技股份有限公司依低功率射頻電機技術規範審驗要點規範製作測試結果報告，測試結果評判為合格。

備註：

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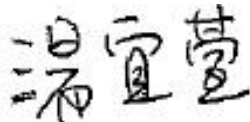


日期：

07/22/2019

謝秉峰 / 工程師

報告製作：



日期：

07/22/2019

湯宜萱 / 行政

報告審核：



日期：

07/22/2019

蔡永譚 / 副理

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測試實驗室資料:

實驗室認可登錄：中華民國實驗室認證體系

認可編號：TAF 1309，認可頻率範圍9kHz ~ 40GHz

認證有效期間：105年10月18日起至108年10月17日止

測試場地：新北市五股區五工六路11號

實驗室名稱：程智科技股份有限公司
五股實驗室

實驗室地址：新北市五股區五工六路11號

電話：886-2-22999720

傳真：886-2-22981882

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實驗室之量測不確定度

測試項目	測試場地 / 測試頻率	不確定度(dB)
傳導干擾電壓量測	AC Powerline Conducted Emission	+/-1.2575
輻射干擾場強量測 (測試距離: 3m)	3M Semi Anechoic Chamber / 30MHz ~ 200MHz	+/- 4.12
	3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
	3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
	3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
	3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
	3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

附註: K=2 即代表測試結果具有95%的量測可信度。

符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度

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1 一般資料

1.1 產品描述

產品名稱	谷歌眼鏡企業版 2		
產品型號	GG2		
產品商標	GLASS		
SW version:	N/A		
HW version:	N/A		
USB Cable:	Model No.: ABA-USB-702-P01, Supplier: Lotes		
使用電源	3.85Vdc from Rechargeable Li-ion Battery		
	Battery:	Pack Model No.: P-752438 Supplier: Dongguan Amperex Technology Limited	

調變	發射頻帶 (MHz)		輸出功率 (dBm)	頻道數 (Channels)
802.11 a mode	-	5150 ~5250	12.80	4
	-	5250 ~5350	12.98	4
	-	5470 ~5725	12.62	12
	-	5725 ~5850	12.99	5
802.11n HT20 / ac VHT20 mode	HT20:	5150 ~5250	12.97	4
	HT20:	5250 ~5350	12.77	4
	HT20:	5470 ~5725	12.98	12
	HT20:	5725 ~5850	12.95	5
802.11n HT40 / ac VHT40 mode	HT40:	5150 ~5250	12.91	2
	HT40:	5250 ~5350	12.98	2
	HT40:	5470 ~5725	12.99	6
	HT40:	5725 ~5850	12.97	2
802.11 ac VHT80 mode	VHT80:	5150 ~5250	12.65	1
	VHT80:	5250 ~5350	12.76	1
	VHT80:	5470 ~5725	12.91	3
	VHT80:	5725 ~5850	12.85	1
調變方式	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps			

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天線型式/天線增益

天線型式	Supplier	Model No.	發射頻帶(MHz)	天線增益(dBi)
Monopole	N/A	N/A	5150~5250	1.67
			5250~5350	1.66
			5470~5725	1.60
			5725~5850	1.55

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1.2 產品特性

此裝置符合IEEE Std 802.11a/ac/n 標準。其發射頻率落於5150MHz至5250MHz,5250MHz至5350MHz及5470MHz至5725MHz, 5725MHz至5850MHz。

802.11a/n/ac mode 採用正交分頻多工OFDM調變技術之發射頻率全段：落於5150-5250MHz共有4個頻道，5250-5350 MHz共有4個頻道及5350MHz及5470MHz共有11個頻道，及5725MHz及5850MHz共有5個頻道。

Operated band in 5150 MHz ~5250 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

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Operated band in 5470 MHz ~5725 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

802.11ac VHT80 Mode	
channel	Frequency
106	5530
122	5610
138	5690

Operated band in 5725 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Frequency
155	5775

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1.3 最差測試模式:

AC POWER LINE CONDUCTED EMISSION TEST:

Test Condition	AC Power line conducted emission for line and neutral
Worst Case	Operation in normal mode

經評估後，比較所有調變、data rate及H, E1 & E2 Plan測試值後，依據下表附上最差模式數據。

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	PLAN
RADIATED EMISSION TEST (BELOW 1 GHz)							
802.11a	5180~5240	36 to 48	44	OFDM	6	MAIN	H
802.11a	5260~5320	52 to 64	60	OFDM	6	MAIN	
802.11a	5500~5720	100 to 144	116	OFDM	6	MAIN	
802.11a	5745~5825	149 to 165	157	OFDM	6	MAIN	
RADIATED EMISSION TEST (ABOVE 1 GHz)							
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN	H
802.11n_HT20				OFDM	MCS0	MAIN	
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN	
802.11ac VHT80	5210	42	42	OFDM	VHT0	MAIN	
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN	
802.11n_HT20				OFDM	MCS0	MAIN	
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN	
802.11ac VHT80	5290	58	58	OFDM	VHT0	MAIN	
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN	
802.11n_HT20				OFDM	MCS0	MAIN	
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	MAIN	
802.11ac VHT80	5530~5690	106 to 138	106, 122,138	OFDM	VHT0	MAIN	
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN	
802.11n_HT20				OFDM	MCS0	MAIN	
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN	
802.11ac VHT80	5775	155	155	OFDM	VHT0	MAIN	

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac VHT80	5210	42	42	OFDM	VHT0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac VHT80	5290	58	58	OFDM	VHT0	MAIN
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	MAIN
802.11ac VHT80	5530~5690	106 to 138	106, 122,138	OFDM	VHT0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac VHT80	5775	155	155	OFDM	VHT0	MAIN

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1.4 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(LP0002, 107.1.10 版本) 如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI 63.10:2013、FCC CFR 47 15.407、FCC 14-30、KDB 789033D02 之檢驗法。

低功率射頻電機技術規範4.7節及FCC Part 15.407

項次	測試項目	適用規範	測試結果	量測設備	備註
1	不必要發射之限制	低功率射頻電機技術規範 4.7.4	請參閱6.5節	請參閱 4.2; 4.3節	合格
2	電源線傳導干擾	低功率射頻電機技術規範 2.3節	請參閱5.5節	請參閱4.1節	合格
3	天線增益之要求	低功率射頻電機技術規範 4.7.2 (1), (2), (3)	請參閱7.2節	-----	合格
4	26 dB& 6dB頻寬	低功率射頻電機技術規範 4.7.3, 4	請參閱8.4節	請參閱4.3節	合格
5	最大輸出功率	低功率射頻電機技術規範 4.7.3	請參閱9.4節	請參閱4.3節	合格
6	功率密度	低功率射頻電機技術規範 4.7.3	請參閱10.4節	請參閱4.3節	合格

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2 適用規範

2.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻電機技術規範之2.3節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150 kHz 至 30MHz 之射頻電壓 (在電源端子每一電源線對接地點) 不得超過下表所列之限值。測量時應經過 50 μ H 及50 Ω 之電源線阻抗模據網路 (LISN)。頻率重疊處，以較低限值为準。

頻率(MHz)	傳導限制值 (dBuV)	
	準峰值 (Quasi – peak)	平均值 (Average)
0.15 – 0.5	66 – 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) 輻射之規定

依據NCC低功率射頻電機技術規範3.10.5節之要求，其他開放頻帶外不必要之輻射需符合2.8節之一般限制要求，其電場強度不得超過下表之限值，且其不必要之發射皆不得大於主波發射強度。各頻段重疊處，以較嚴格之限制值为準。

頻率 MHz	測試距離 m	干擾限制 μ V/m	干擾限制 dB μ V/m
0.009 – 0.490	300	2,400/頻率 (kHz)	
0.490 – 1.705	30	24,000/頻率 (kHz)	
1.705 - 30	30	30	
30 - 88	3	100	40.0
88 – 216	3	150	43.5
216 – 960	3	200	46.0
960 以上	3	500	54.0

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻電機技術規範2.7節之要求，任何低功率射頻電機之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻電機落於下表所列頻帶內之混附發射，其電場強度必須符合第2.8節的限制規定。

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

(4) 依據NCC低功率射頻電機技術規範2.11節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第2.8節之發射規定，且不得接收、解調第2.7節所列之頻率。

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2.2 規範要求

依據NCC低功率射頻電機技術規範4.7節無線資訊傳輸設備規範之規定如下

(A) 最大輸出功率與功率頻譜密度及天線增益，以及發射限制之要求限制

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 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。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 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。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或 $11\text{dBm}+10\log B$ (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功率及最大功率頻譜密度。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，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。

(B) 不必要發射之限制

依據NCC低功率射頻電機技術規範4.7.4節之要求，在5.15 GHz~5.35 GHz 及 5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP)≤-27 dBm/MHz。

在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP)≤27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率35(EIRP)≤15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP)≤10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外≥75 MHz 的頻率之發射，有效等向輻射功率(EIRP)≤-27 dBm/MHz；有關遮罩限制值詳圖1。

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m),

EIRP is the equivalent isotropically radiated power in Watts.

$E = 1000000 \cdot (30 \cdot EIRP)^{(1/2)} / 3 \text{ uV/m}$

= 68.3dBuV/m

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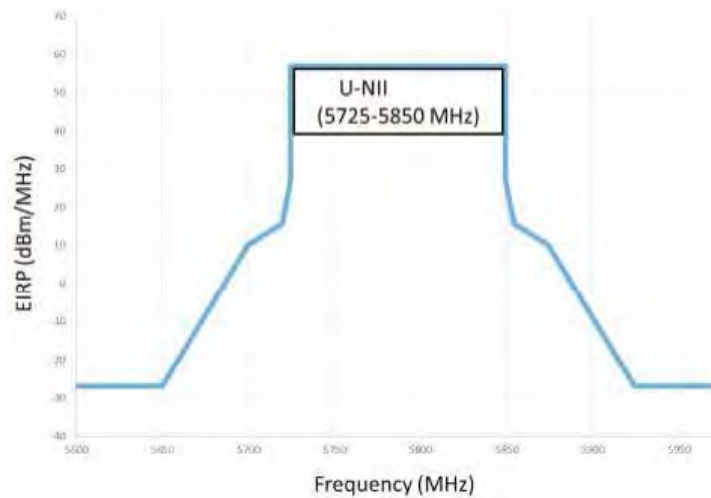


圖 1

(C) 依據 NCC 低功率射頻電機技術規範 4.7.3.4 節之要求，26dB & 6dB 發射頻寬之測試

(1) 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。

(2) 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 26dB 發射頻寬，兩者取較小者。

解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

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3 受測裝置之系統說明

裝置名稱	製造者/申請者	型號	纜線說明
* 谷歌眼鏡企業版 2	Google LLC / 廣達電腦股份有限公司	GG2	無纜線

標記：“*”表欲申請之受測物。

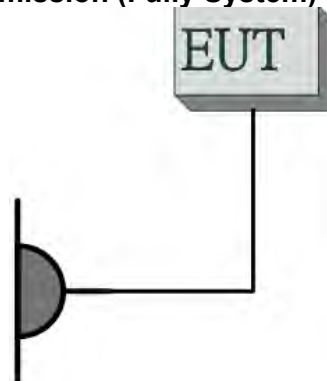
3.1 待測物與測試設備系統圖

3.1.1 量測配置圖

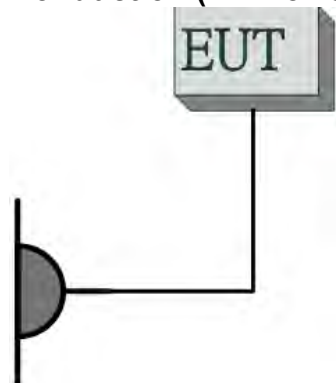
Radiated Emission & Conducted (Antenna Port)



Radiated Emission (Fully System)



Conduction (AC Power Line)



3.2 輔助測試週邊設備名稱描述

編號	產品別	商標	型號	序號	信號線)	電源線)
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-WR6X4	Shielded	Unshielded
3.	Adapter	SAMSUNG	ETA-U90JWS	RT4D402KS/B	N/A	N/A

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4 量測儀器設備

4.1 AC 電源端傳導干擾之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

4.2 量測場強輻射之量測儀器

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Low Pass Filter	EWT	EWT-56-0019	RF46	02/26/2019	02/25/2020
High Pass Filter	WI	WHKX7.0/18G-8SS	45	02/26/2019	02/25/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/26/2018	12/25/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 V6.11-20180413				

註: 以上部份設備跟量測值沒有影響, 且沒有直接關聯, 因此不需要進行校正。

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4.3 天線端傳導測試之量測儀器

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Thermostatic/Hrgrostatic Chamber	GWINSTEK	GTC-288MH-CC	TH160402	05/16/2019	05/15/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Power Meter	Anritsu	ML2496A	1326001	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315048	08/03/2018	08/02/2019
Power Sensor	Anritsu	MA2411B	1315049	08/03/2018	08/02/2019

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5 電源線傳導干擾之量測

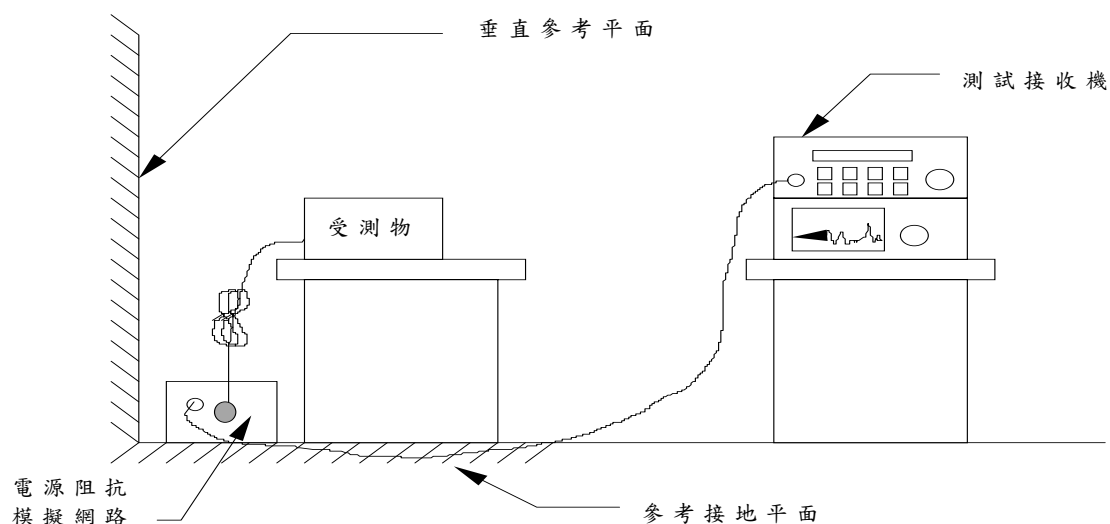
5.1 適用標準

依據NCC低功率射頻電機技術規範2.3節之要求。

5.2 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 之間之電源線傳導放射強度。

5.3 測試配置



5.4 干擾值之計算

電源傳導干擾電壓之計算公式如下

結果值 = 儀器讀值(QP/AV) + 校正因子

其中校正因子為：

饋線損失 + 電源阻抗模擬網路損失

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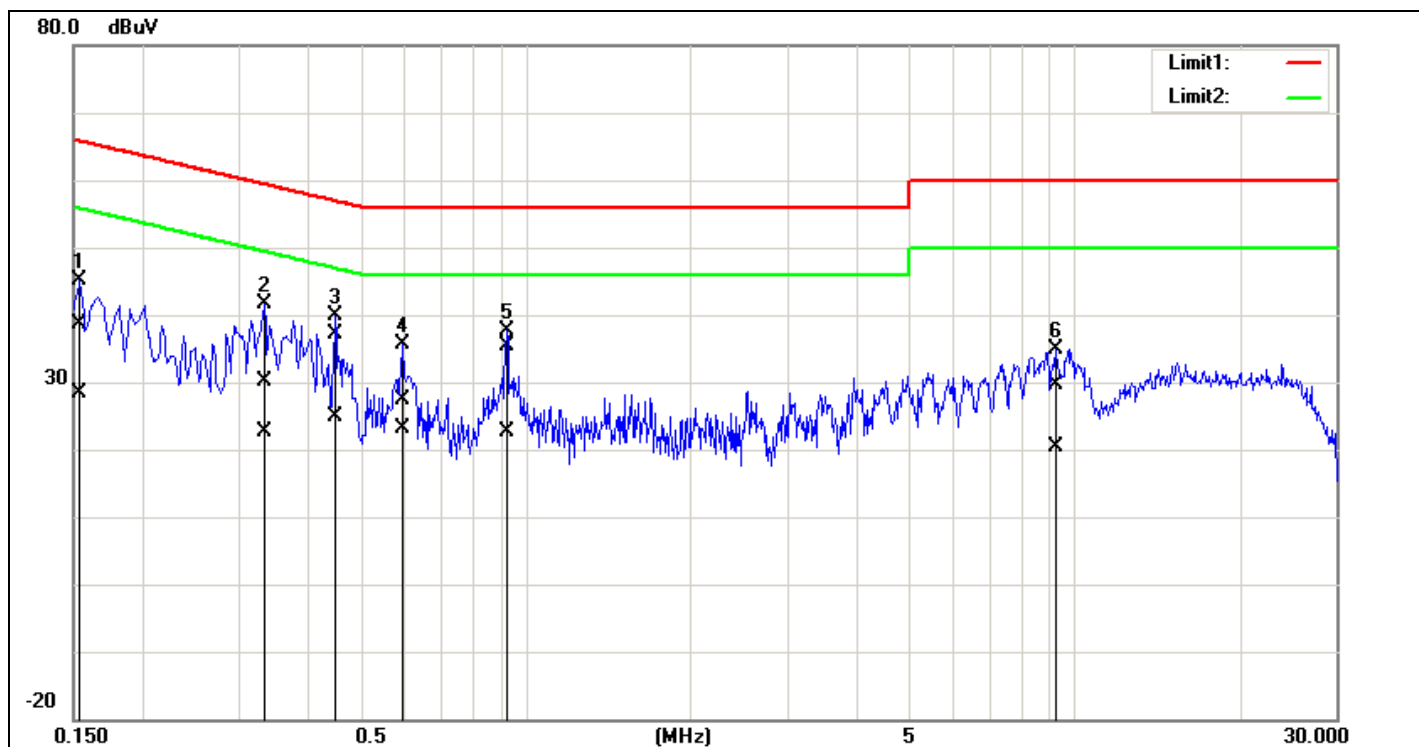
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5.5 傳導干擾之量測結果

Description: Operation
Line: L1
Test Voltage: AC 110V/60Hz
Job No.: T190514W01

Date: 2019/7/5
Temp.(°C)/Hum.(%): 26.5(°C)/66%
Test By: Henry



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1539	28.38	18.14	10.14	38.52	28.28	65.78	55.79	-27.26	-27.51	Pass
2	0.3339	20.05	12.37	10.14	30.19	22.51	59.35	49.35	-29.16	-26.84	Pass
3*	0.4500	27.02	14.68	10.14	37.16	24.82	56.87	46.88	-19.71	-22.06	Pass
4	0.5980	17.15	13.09	10.15	27.30	23.24	56.00	46.00	-28.70	-22.76	Pass
5	0.9260	25.13	12.54	10.17	35.30	22.71	56.00	46.00	-20.70	-23.29	Pass
6	9.2980	19.17	9.97	10.34	29.51	20.31	60.00	50.00	-30.49	-29.69	Pass

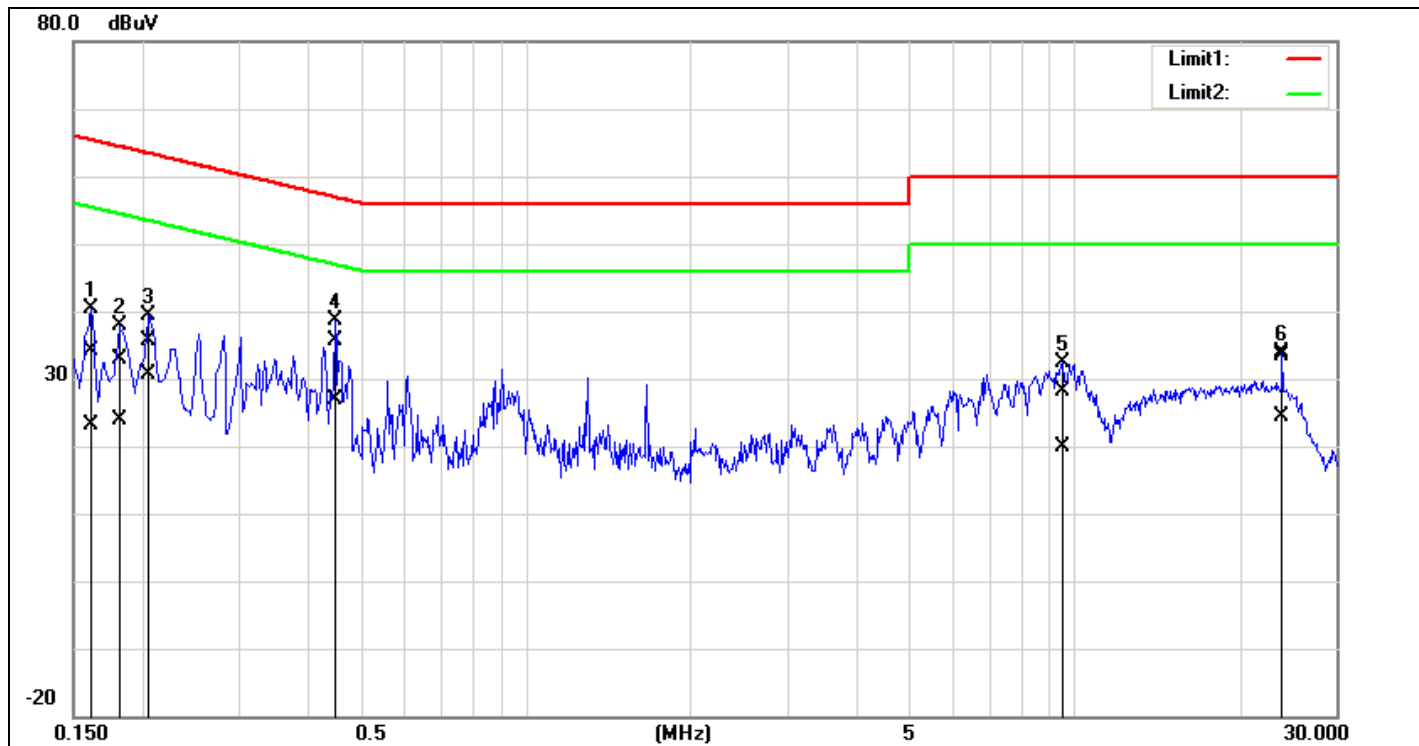
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Description: Operation
Line: N
Test Voltage: AC 110V/60Hz
Job No.: T190514W01

Date: 2019/7/5
Temp.(°C)/Hum.(%): 26.5(°C)/66%
Test By: Henry



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	24.08	13.20	10.02	34.10	23.22	65.36	55.36	-31.26	-32.14	Pass
2	0.1819	22.78	13.87	10.02	32.80	23.89	64.39	54.40	-31.59	-30.51	Pass
3	0.2060	25.59	20.54	10.02	35.61	30.56	63.36	53.37	-27.75	-22.81	Pass
4*	0.4500	25.65	16.94	10.03	35.68	26.97	56.87	46.88	-21.19	-19.91	Pass
5	9.5020	17.98	9.76	10.21	28.19	19.97	60.00	50.00	-31.81	-30.03	Pass
6	23.9220	23.03	14.12	10.36	33.39	24.48	60.00	50.00	-26.61	-25.52	Pass

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6 不必要發射限制之量測

6.1 適用標準

依據NCC低功率射頻電機技術規範4.7.4節之要求，在5.15 GHz~5.35 GHz 及5.470 GHz~5.725 GHz 頻段操作的發射器：帶外發射之有效等向輻射功率(EIRP) ≤ -27 dBm/MHz。

在5.725 GHz~5.850 GHz 的頻段操作之發射器：所有頻帶邊緣向外5 MHz 內頻率之發射，有效等向輻射功率(EIRP) ≤ 27 dBm/MHz~15.6 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣向外5 MHz~25 MHz，有效等向輻射功率35(EIRP) ≤ 15.6 dBm/MHz~10 dBm/MHz (以線性法計算對應之限制值)；所有頻帶邊緣外25 MHz~75 MHz，有效等向輻射功率(EIRP) ≤ 10 dBm/MHz~-27 dBm/MHz(以線性法計算對應之限制值)；所有頻帶邊緣外 ≥ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) ≤ -27 dBm/MHz；有關遮罩限制值詳圖1。

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m),

EIRP is the equivalent isotropically radiated power in Watts.

$E = 1000000 \cdot (30 \cdot EIRP)^{(1/2)} / 3$ uV/m

= 68.3dBuV/m

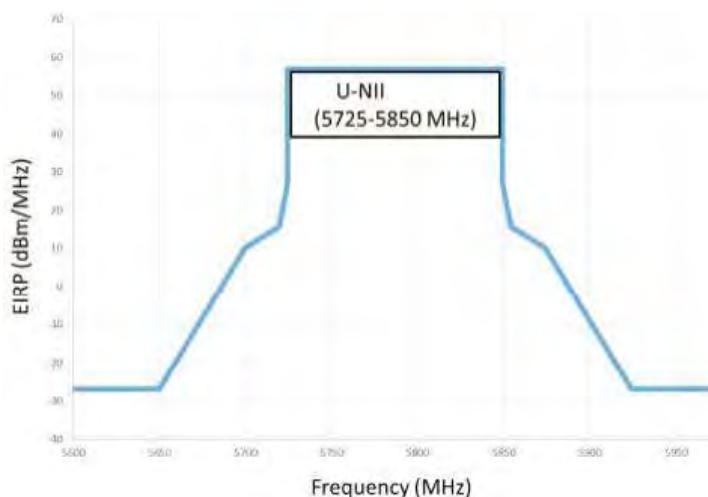


圖 1

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LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
V	FIELD STRENGTH AT 3m (dB μ V/m)	
	PK	AV
	74	54
	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dB μ V/m)
	PK	PK
	-27	68.3

6.26.2 量測方法

輻射場強量測

將待測物置於非金屬桌面，測試頻率1GHz以下時，使用桌高0.8 米，1GHz以上時，使用桌高1.5米，使其在工作狀態，接收天線置於 3 米外相同的高度。待測物分別要垂直或水平放置，而且桌面要 360 度旋轉，另外接收天線也要從 1.0 米至 4.0 米升降變化，以找出最大的輻射電場強度，接收天線置於水平、垂直極向各執行測試一次。

幅射傳導量測

將發射機之天線埠經由適當之衰減直接連至測試儀器。設定儀器之解析頻寬為1MHz,視訊頻寬>=解析頻寬,將待測物天線增益offset至測試儀器。

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9kHz~150kHz 測試

解析頻寬: 300Hz
量測天線: AL-130

視訊頻寬: 300Hz
檢測器: Quasi-Peak

150kHz~30MHz 測試

解析頻寬: 10kHz
量測天線: AL-130

視訊頻寬: 10kHz
檢測器: Quasi-Peak

1GHz 以下測試

解析頻寬: 100kHz
量測天線: JB3

視訊頻寬: 100kHz
檢測器: Quasi-Peak

1GHz 以上測試

量測天線: 3116

檢測器: Peak, Average

頻譜分析儀設定 Peak: RBW: 1MHz ; VBW: 1MHz , Average: RBW: 1MHz ; VBW: 10Hz

註: 輻射量測僅放最差模式 (30MHz 以上)。

6.3 場強度之計算

場強之計算公式如

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

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。

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

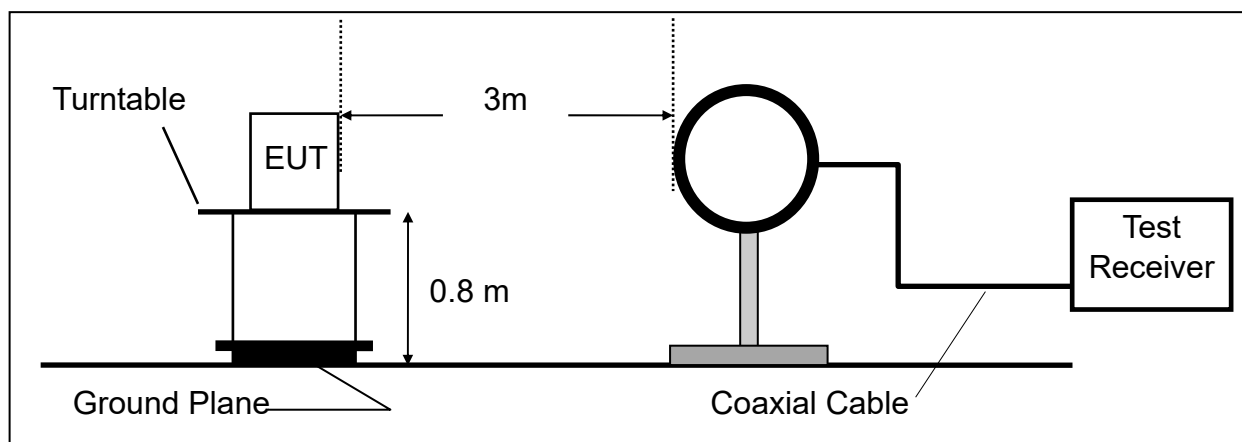
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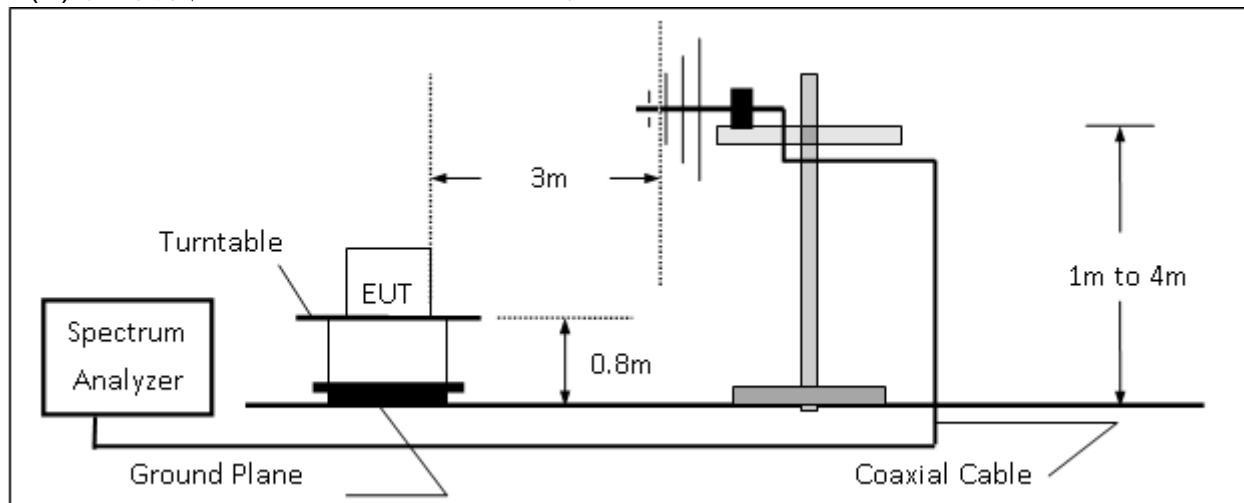
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6.4 輻射之測試配置

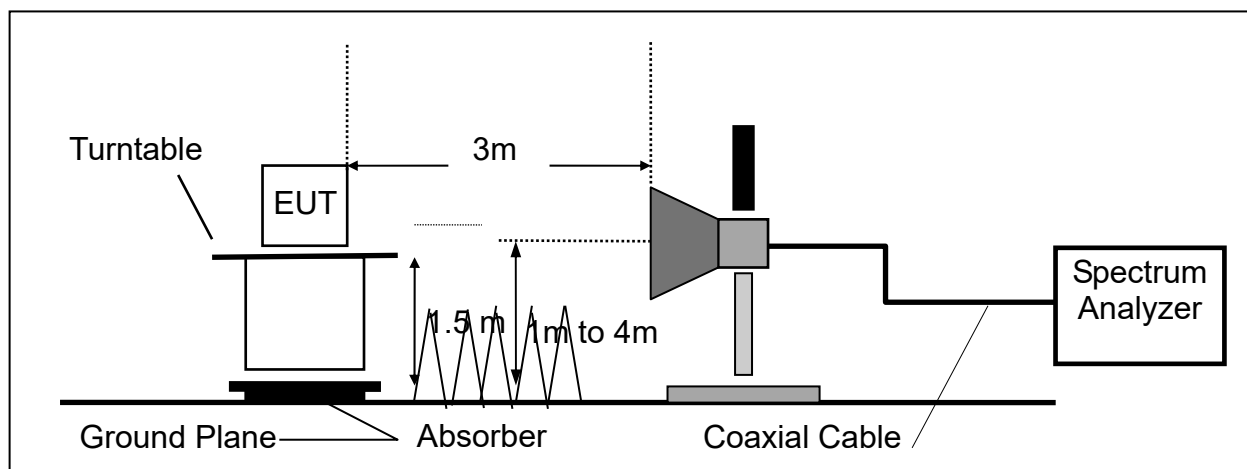
(A) 量測頻率低於 30MHz 以下之測試配置



(B) 量測頻率 30MHz 至 1000MHz 之測試配置



(C) 量測頻率 1000MHz 以上之測試配置

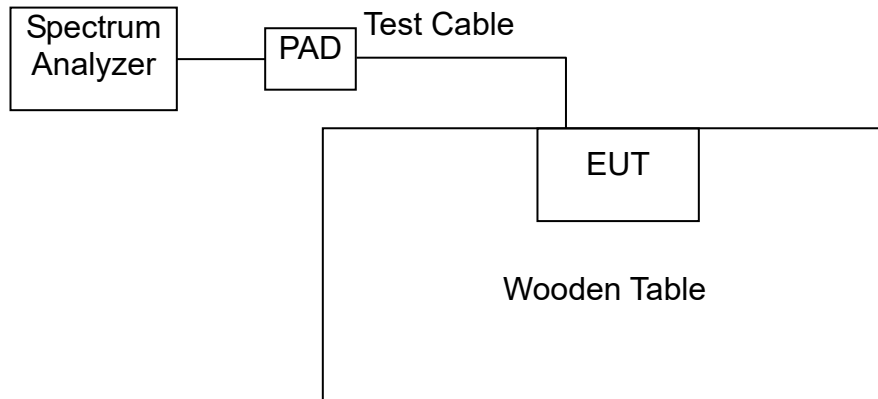


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(D) 傳導之測試配置圖



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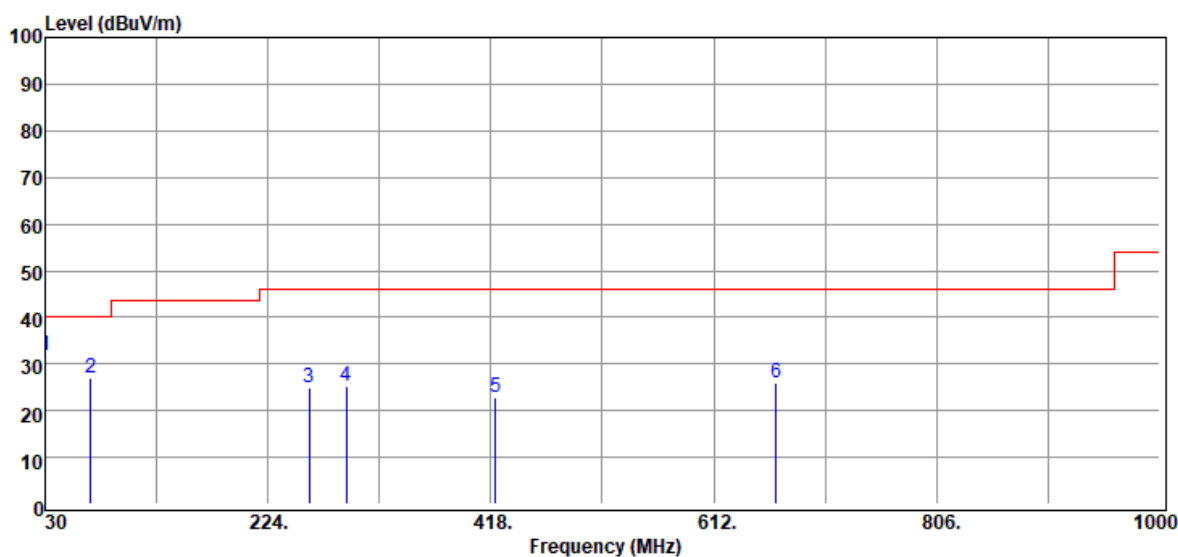
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6.5 場強輻射之量測結果

802.11a 發射模式 1GHz 以下測試 (5150MHz-5250MHz)

Report Number :T190514W01
 Operation Band :802.11a / Band 1
 Fundamental Frequency :5220 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/66
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.00	Peak	33.40	-1.51	31.89	40.00	-8.11
69.77	Peak	41.87	-14.95	26.92	40.00	-13.08
259.89	Peak	34.66	-9.77	24.89	46.00	-21.11
291.90	Peak	33.44	-8.33	25.11	46.00	-20.89
421.88	Peak	27.56	-4.70	22.86	46.00	-23.14
666.32	Peak	26.09	-0.15	25.94	46.00	-20.06

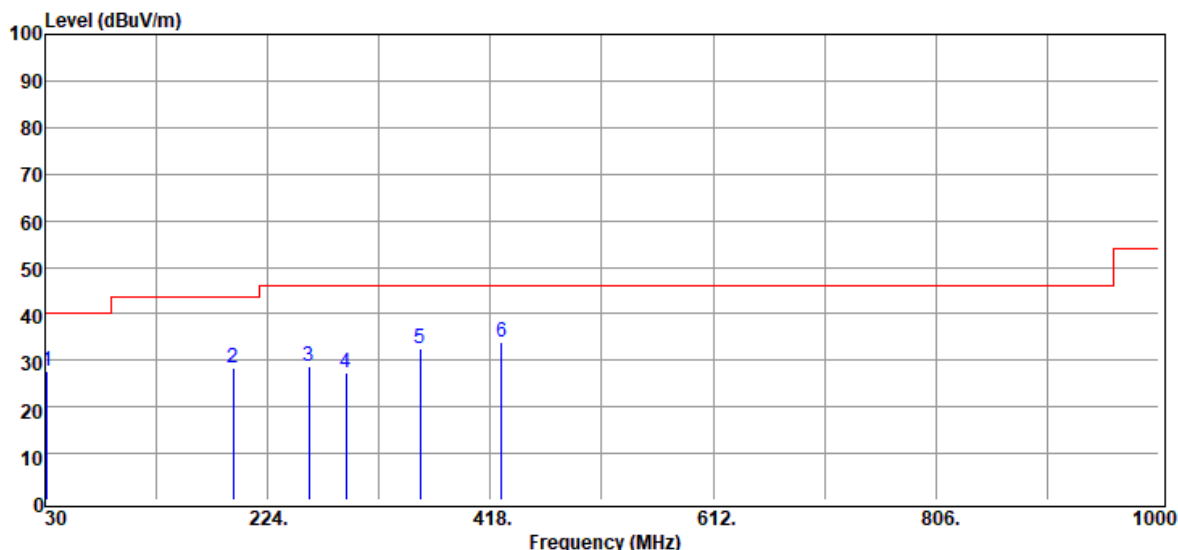
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Report Number :T190514W01
 Operation Band :802.11a / Band 1
 Fundamental Frequency :5220 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/66
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	31.21	-3.40	27.81	40.00	-12.19
193.93	Peak	38.73	-10.25	28.48	43.50	-15.02
259.89	Peak	38.54	-9.77	28.77	46.00	-17.23
291.90	Peak	35.69	-8.33	27.36	46.00	-18.64
356.89	Peak	39.28	-6.73	32.55	46.00	-13.45
427.70	Peak	38.49	-4.43	34.06	46.00	-11.94

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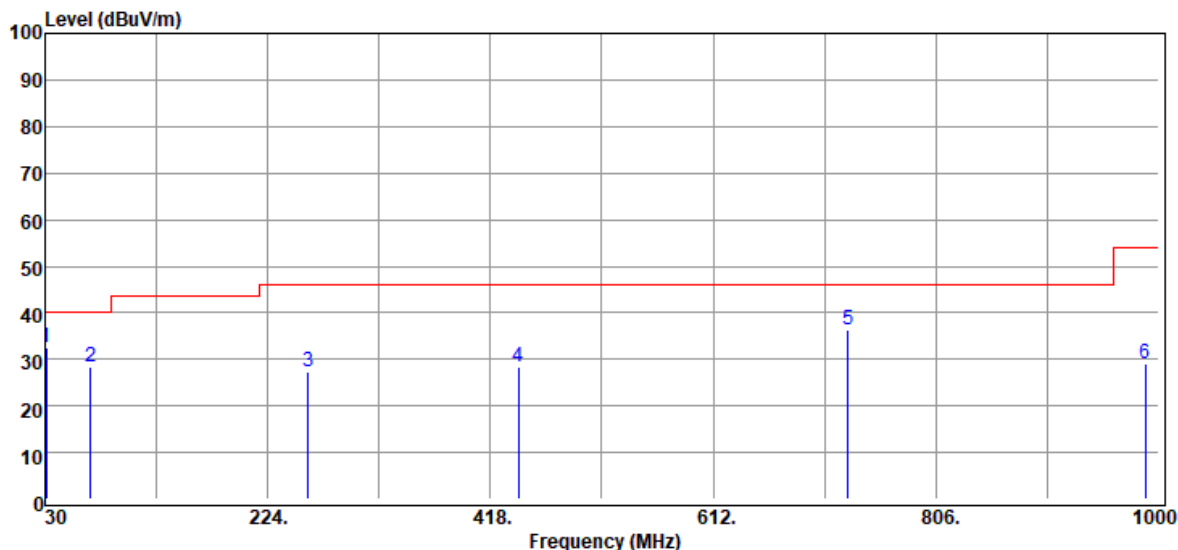
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802.11a 發射模式 1GHz 以下測試 (5250MHz-5350MHz)

Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5300 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/66
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.97	Peak	35.02	-2.33	32.69	40.00	-7.31
69.77	Peak	43.40	-14.95	28.45	40.00	-11.55
258.92	Peak	37.14	-9.88	27.26	46.00	-18.74
442.25	Peak	32.40	-4.05	28.35	46.00	-17.65
729.37	Peak	35.16	1.13	36.29	46.00	-9.71
988.36	Peak	23.58	5.46	29.04	54.00	-24.96

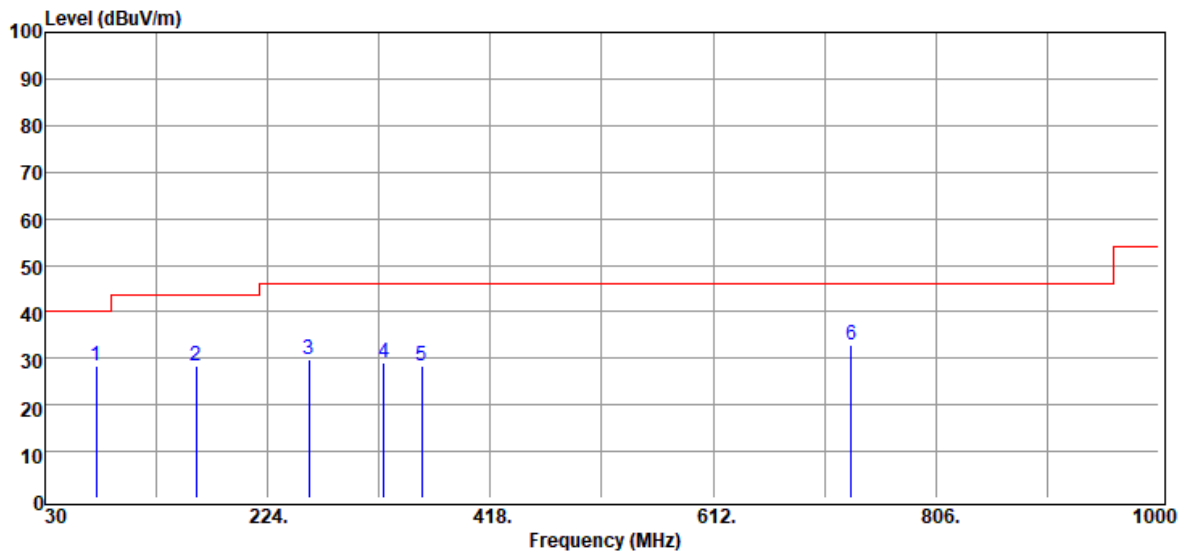
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Report Number :T190514W01
Operation Band :802.11a / Band 2
Fundamental Frequency :5300 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/66
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	43.10	-14.89	28.21	40.00	-11.79
161.92	Peak	38.57	-10.23	28.34	43.50	-15.16
259.89	Peak	39.52	-9.77	29.75	46.00	-16.25
324.88	Peak	36.54	-7.33	29.21	46.00	-16.79
357.86	Peak	34.92	-6.68	28.24	46.00	-17.76
732.28	Peak	31.77	1.16	32.93	46.00	-13.07

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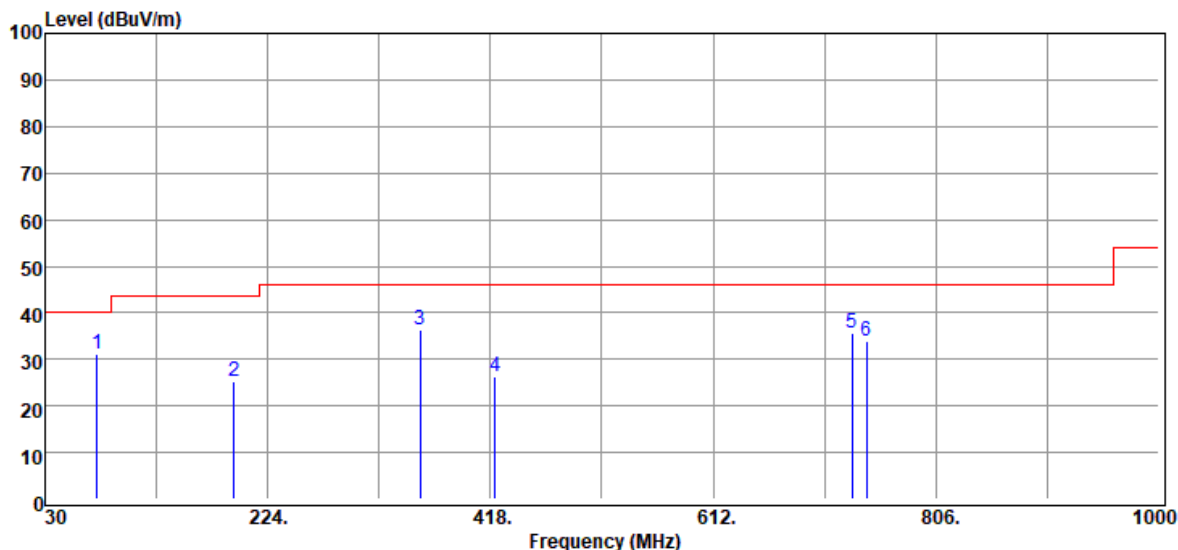
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802.11a 發射模式 1GHz 以下測試 (5470MHz-5725MHz)

Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/66
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
75.59	Peak	46.09	-14.79	31.30	40.00	-8.70
194.90	Peak	35.47	-10.06	25.41	43.50	-18.09
356.89	Peak	42.91	-6.73	36.18	46.00	-9.82
421.88	Peak	31.13	-4.70	26.43	46.00	-19.57
733.25	Peak	34.40	1.17	35.57	46.00	-10.43
745.86	Peak	31.97	1.96	33.93	46.00	-12.07

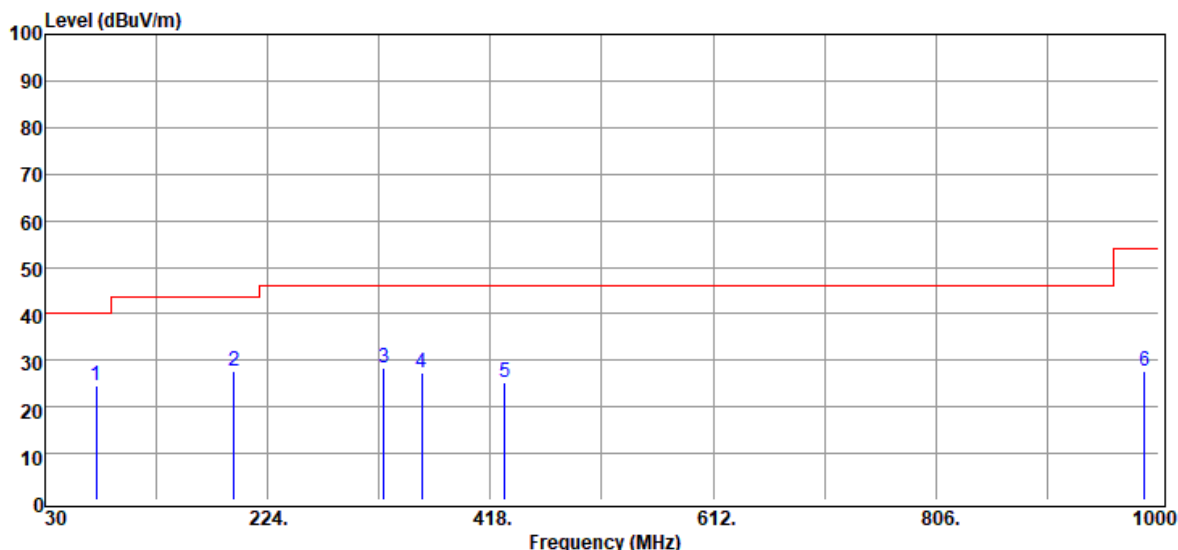
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Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/66
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	39.54	-14.89	24.65	40.00	-15.35
194.90	Peak	37.91	-10.06	27.85	43.50	-15.65
324.88	Peak	35.58	-7.33	28.25	46.00	-17.75
357.86	Peak	34.12	-6.68	27.44	46.00	-18.56
430.61	Peak	29.86	-4.47	25.39	46.00	-20.61
987.39	Peak	22.06	5.46	27.52	54.00	-26.48

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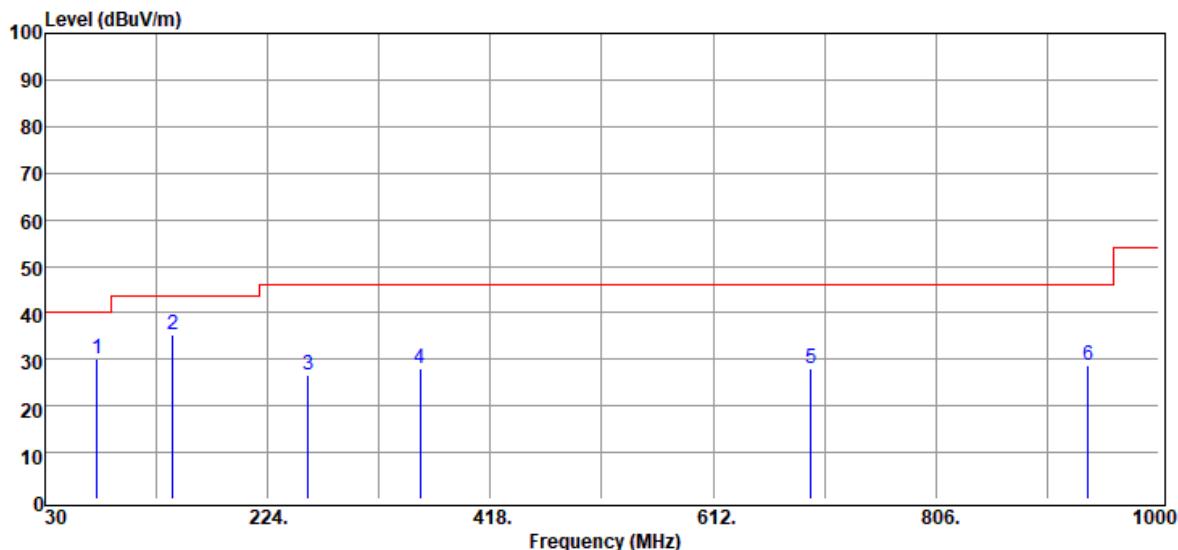
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802.11a 發射模式 1GHz 以下測試 (5725MHz-5850MHz)

Report Number : T190514W01
 Operation Band : 802.11a / Band 4
 Fundamental Frequency : 5785 MHz
 Operation Mode : TX CH MID
 EUT Pol. : H Plan

Test Date : 2019-06-28
 Temp./Humi. : 23/66
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
75.59	Peak	44.75	-14.79	29.96	40.00	-10.04
141.55	Peak	45.39	-9.93	35.46	43.50	-8.04
258.92	Peak	36.61	-9.88	26.73	46.00	-19.27
356.89	Peak	34.68	-6.73	27.95	46.00	-18.05
697.36	Peak	28.02	-0.13	27.89	46.00	-18.11
938.89	Peak	24.93	3.78	28.71	46.00	-17.29

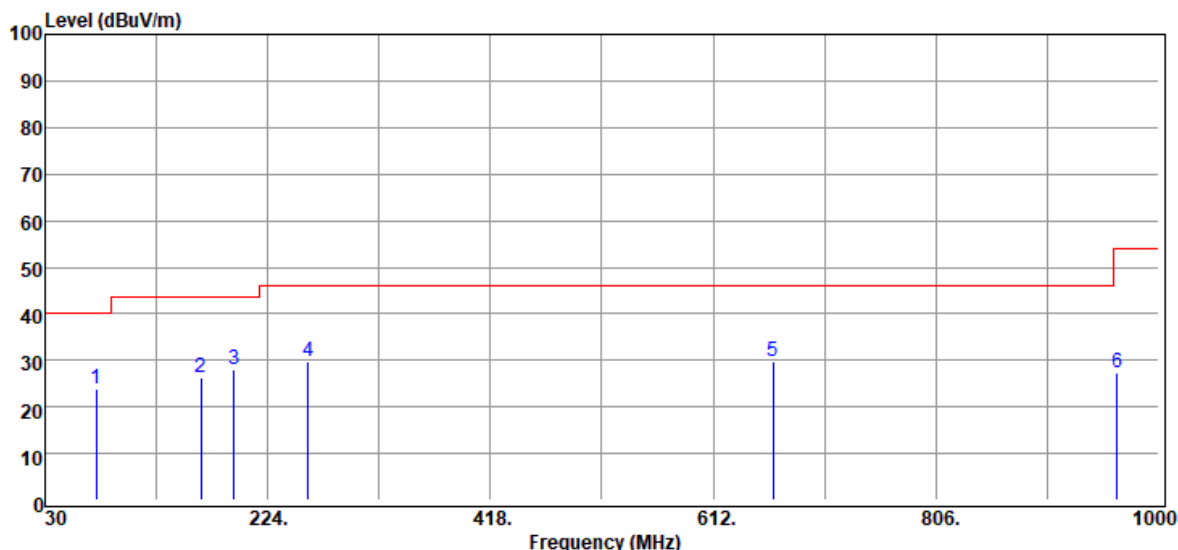
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5785 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :23/66
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	38.63	-14.89	23.74	40.00	-16.26
165.80	Peak	36.56	-10.34	26.22	43.50	-17.28
194.90	Peak	38.00	-10.06	27.94	43.50	-15.56
258.92	Peak	39.59	-9.88	29.71	46.00	-16.29
664.38	Peak	29.68	0.03	29.71	46.00	-16.29
964.11	Peak	22.50	4.72	27.22	54.00	-26.78

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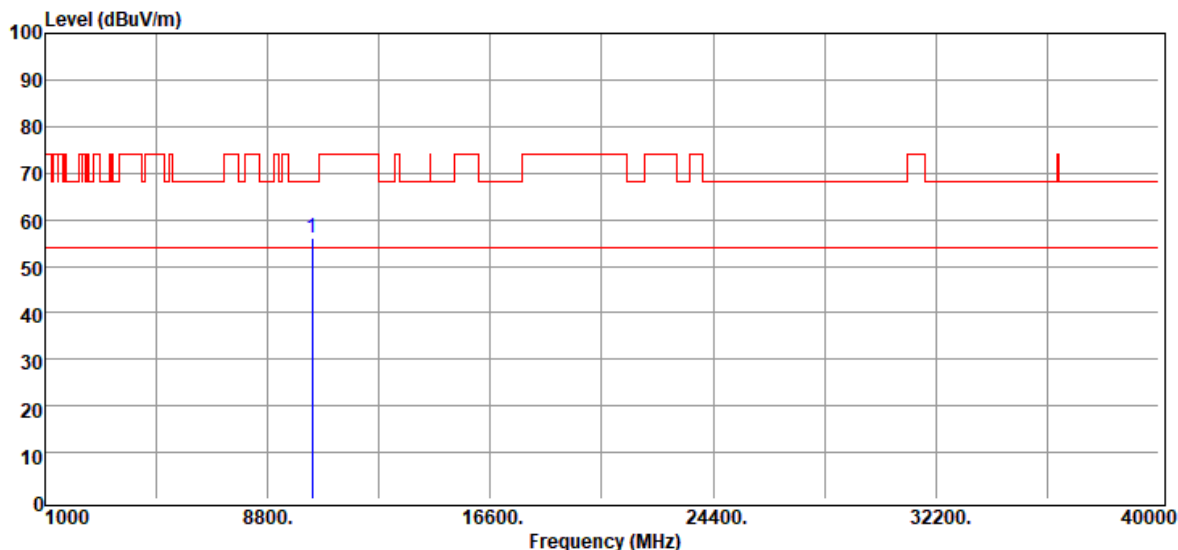
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802.11a 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Report Number :T190514W01
 Operation Band :802.11a / Band 1
 Fundamental Frequency :5180 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	41.42	14.73	56.15	68.20	-12.05

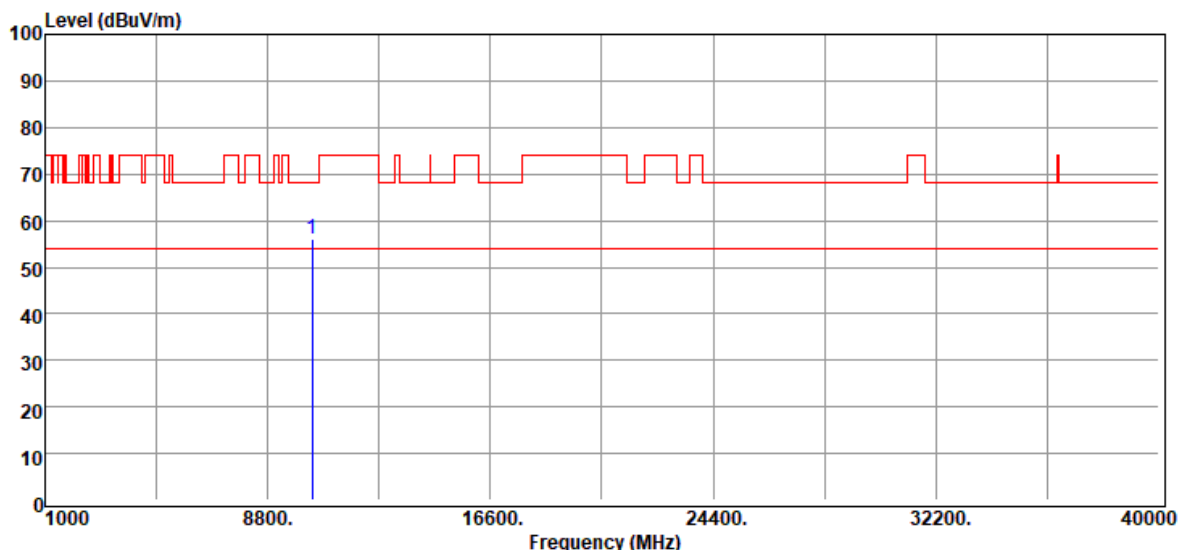
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Report Number :T190514W01
 Operation Band :802.11a / Band 1
 Fundamental Frequency :5180 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10360.00	Peak	41.42	14.73	56.15	68.20	-12.05

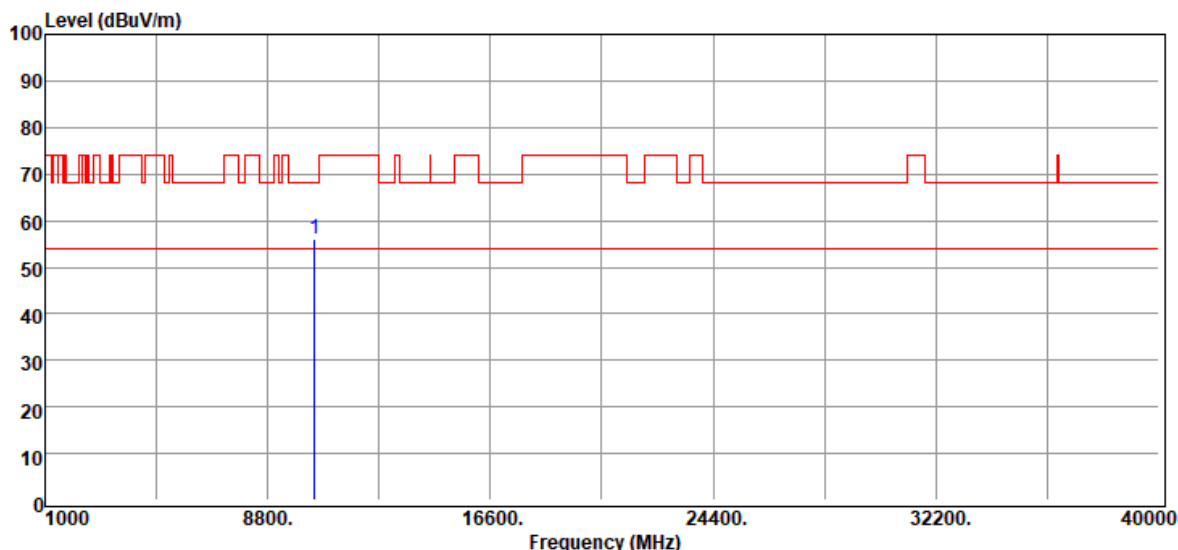
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-13
Temp./Humi. :24/63
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10440.00	Peak	40.24	15.66	55.90	68.20	-12.30

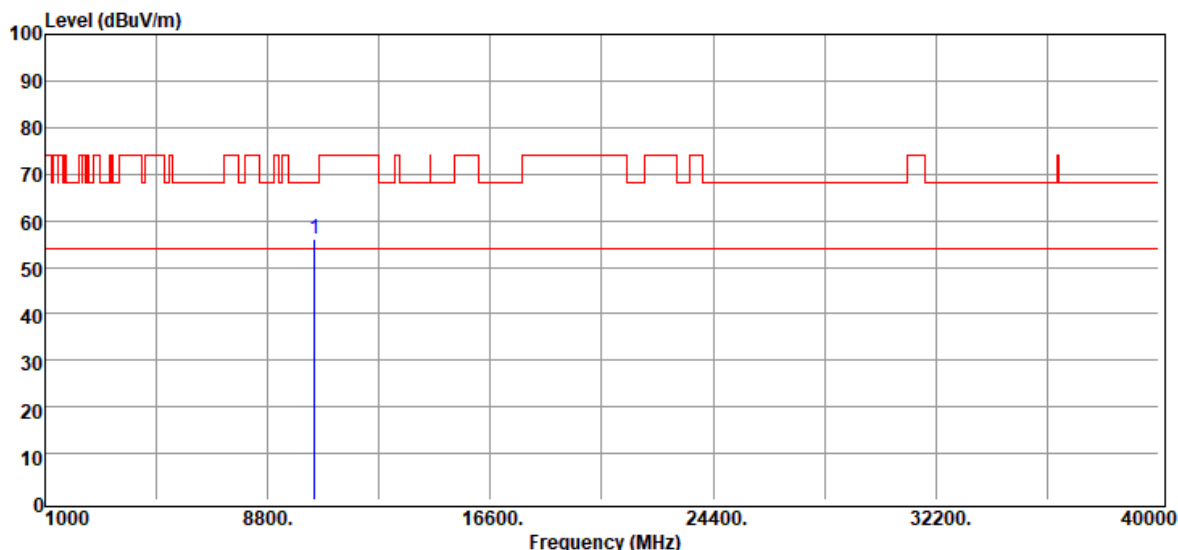
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5220 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-13
Temp./Humi. :24/63
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10440.00	Peak	40.46	15.66	56.12	68.20	-12.08

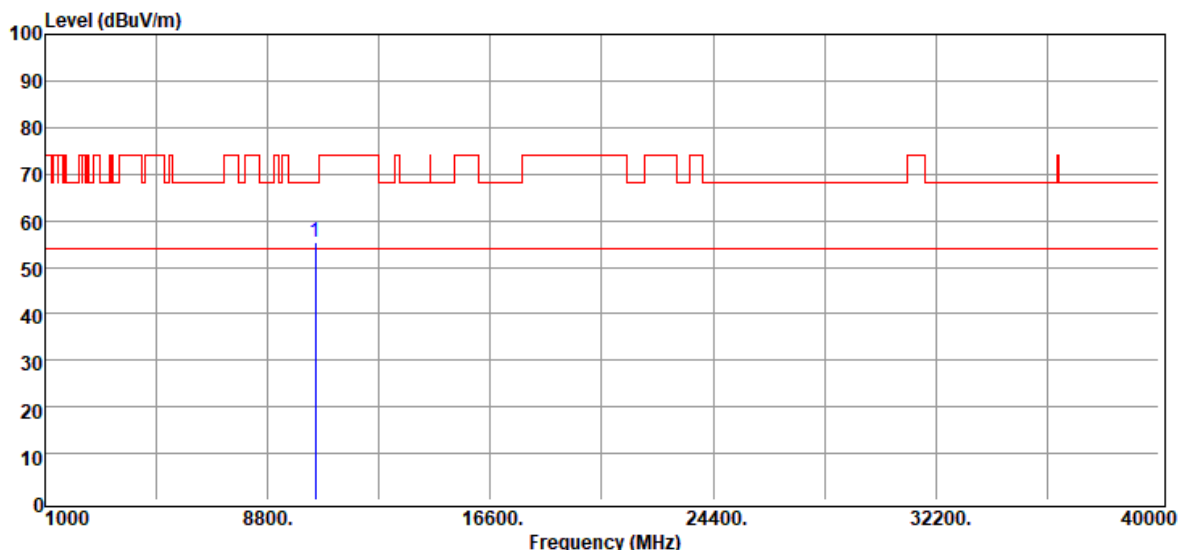
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-13
Temp./Humi. :24/63
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10480.00	Peak	38.95	16.48	55.43	68.20	-12.77

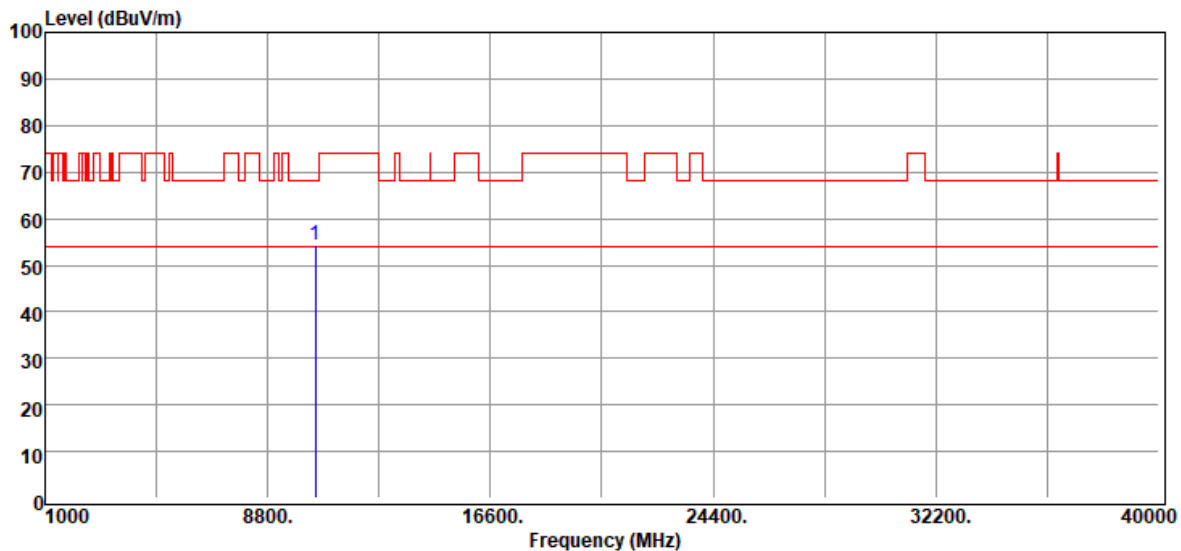
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5240 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-13
Temp./Humi. :24/63
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	37.77	16.48	54.25	68.20	-13.95

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

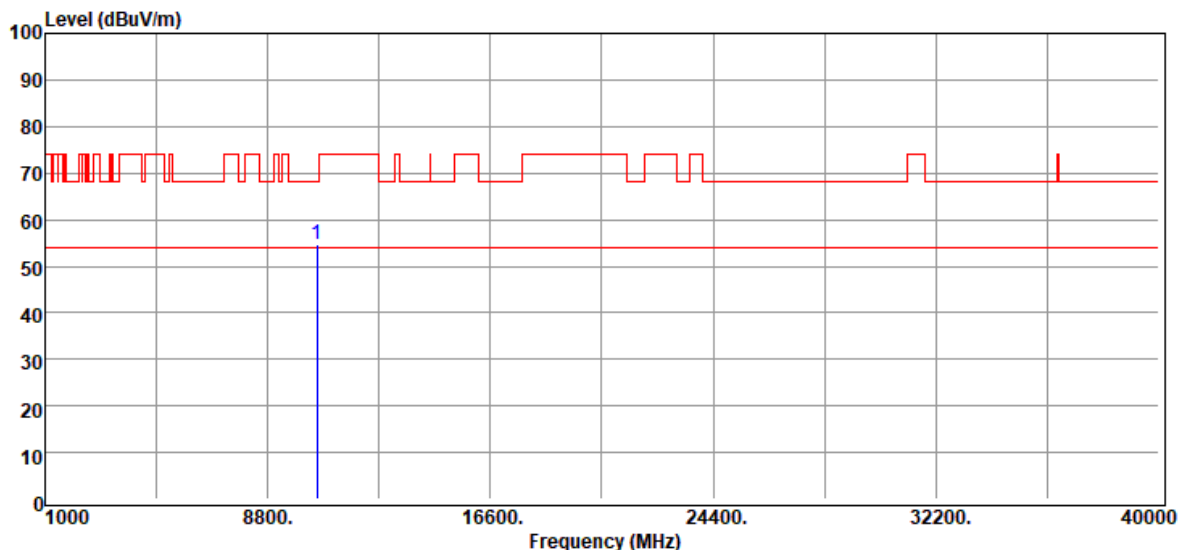
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802.11a 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Report Number : T190514W01
 Operation Band : 802.11a / Band 2
 Fundamental Frequency : 5260 MHz
 Operation Mode : TX CH LOW
 EUT Pol. : H Plan

Test Date : 2019-06-13
 Temp./Humi. : 24/63
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	Peak	38.62	15.99	54.61	68.20	-13.59

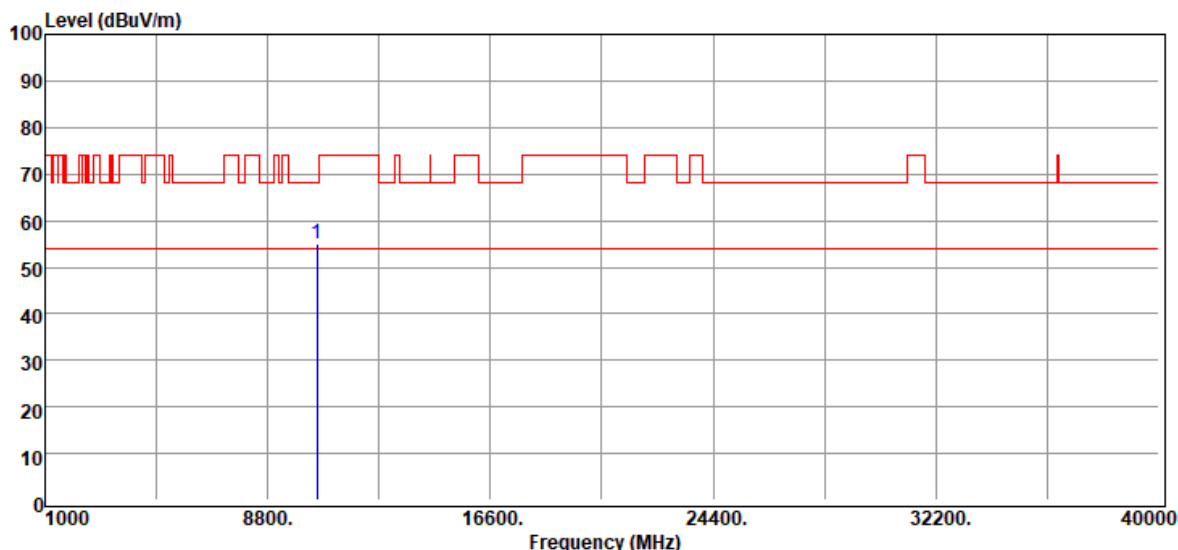
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Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5260 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10520.00	Peak	38.99	15.99	54.98	68.20	-13.22

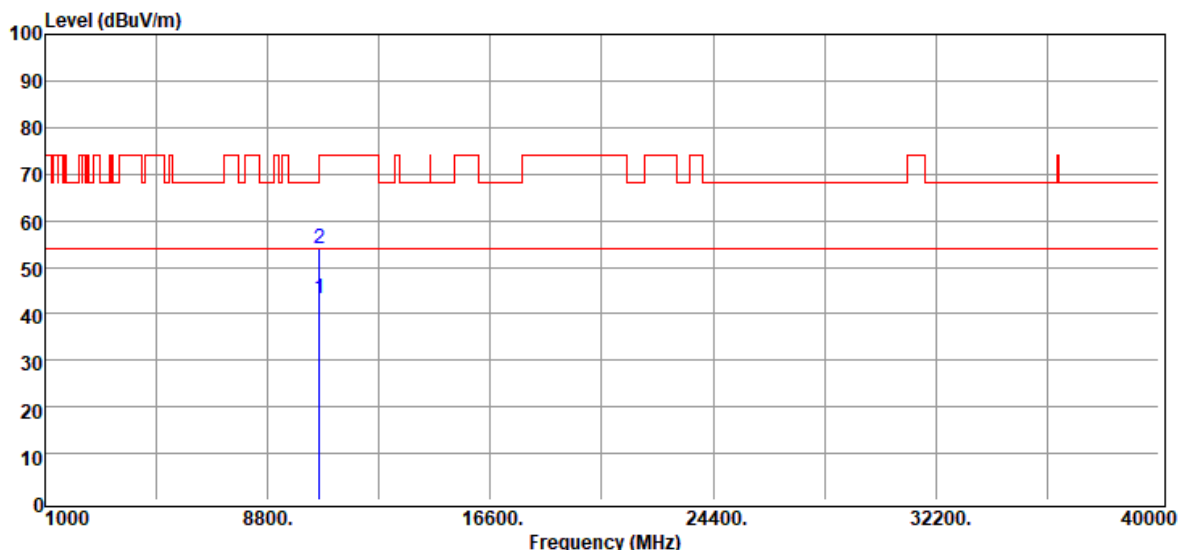
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Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5300 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.92	15.27	43.19	54.00	-10.81
10600.00	Peak	38.77	15.27	54.04	74.00	-19.96

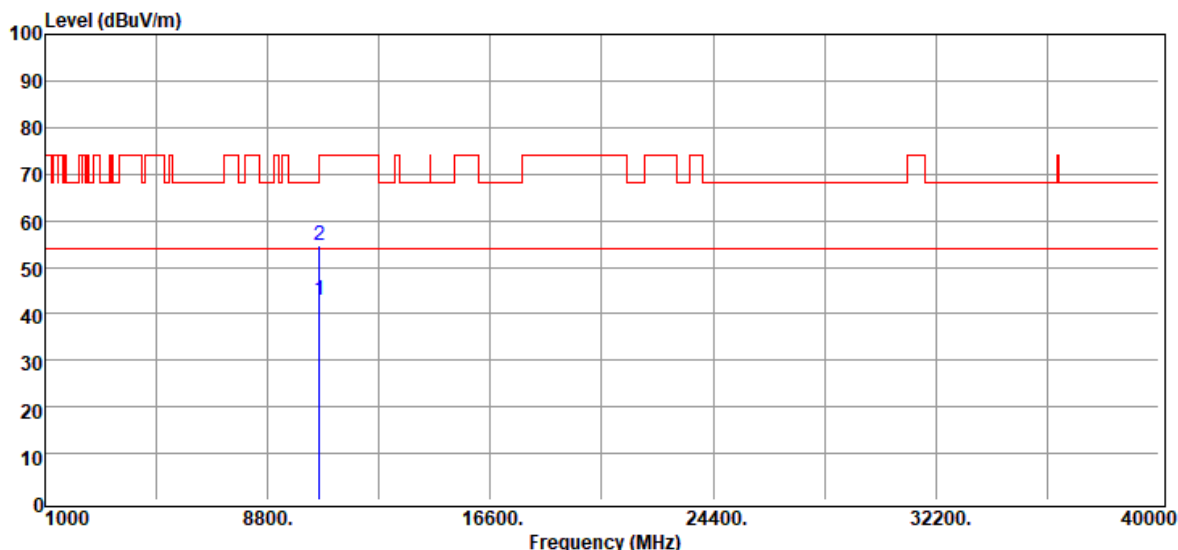
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Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5300 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	27.79	15.27	43.06	54.00	-10.94
10600.00	Peak	39.38	15.27	54.65	74.00	-19.35

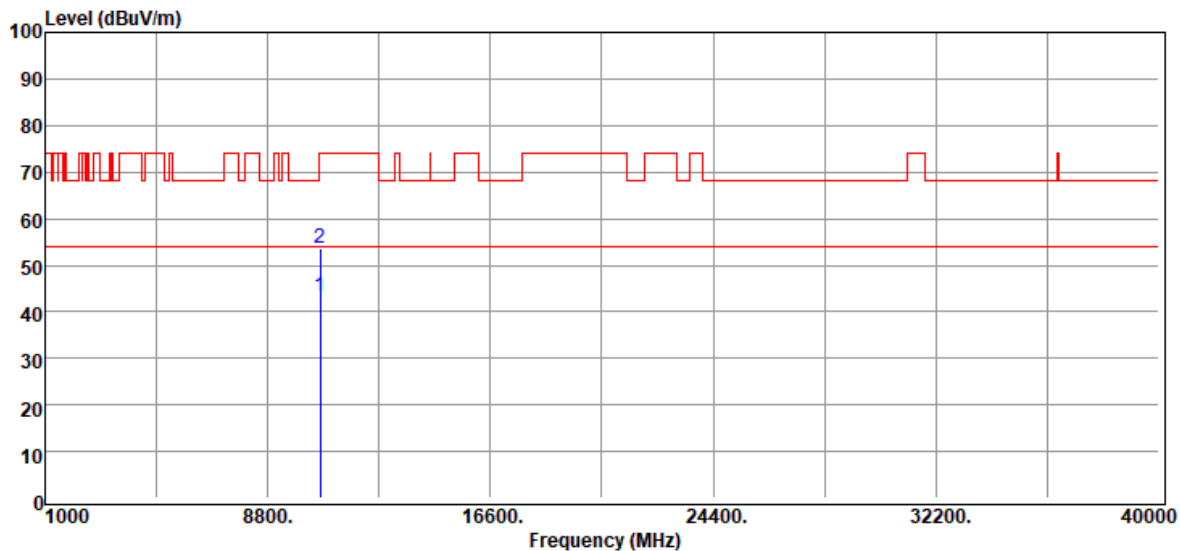
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Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5320 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.09	16.05	43.14	54.00	-10.86
10640.00	Peak	37.68	16.05	53.73	74.00	-20.27

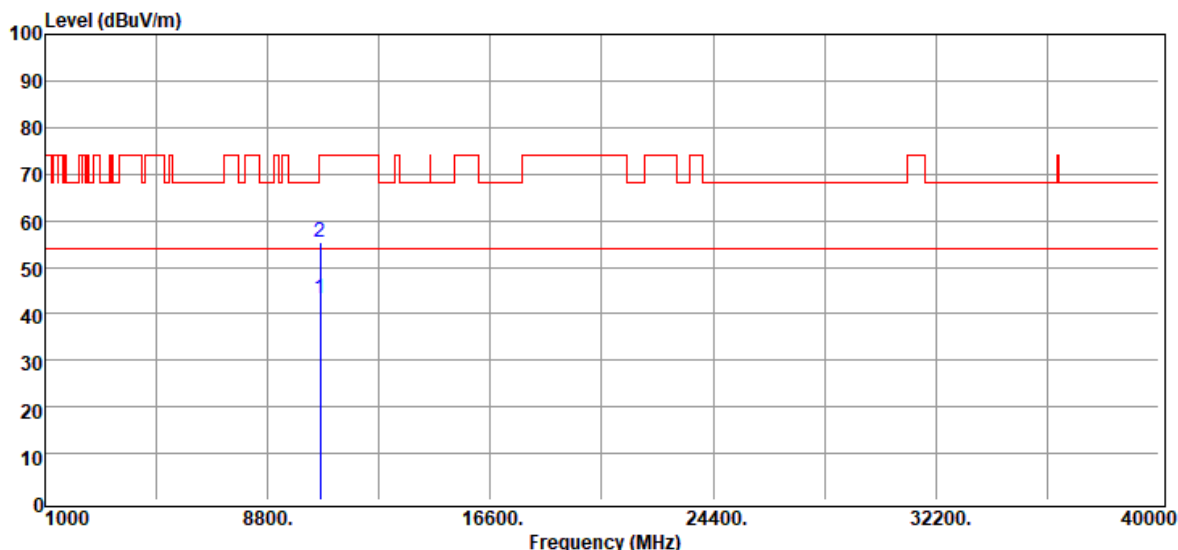
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Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5320 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.05	16.05	43.10	54.00	-10.90
10640.00	Peak	39.23	16.05	55.28	74.00	-18.72

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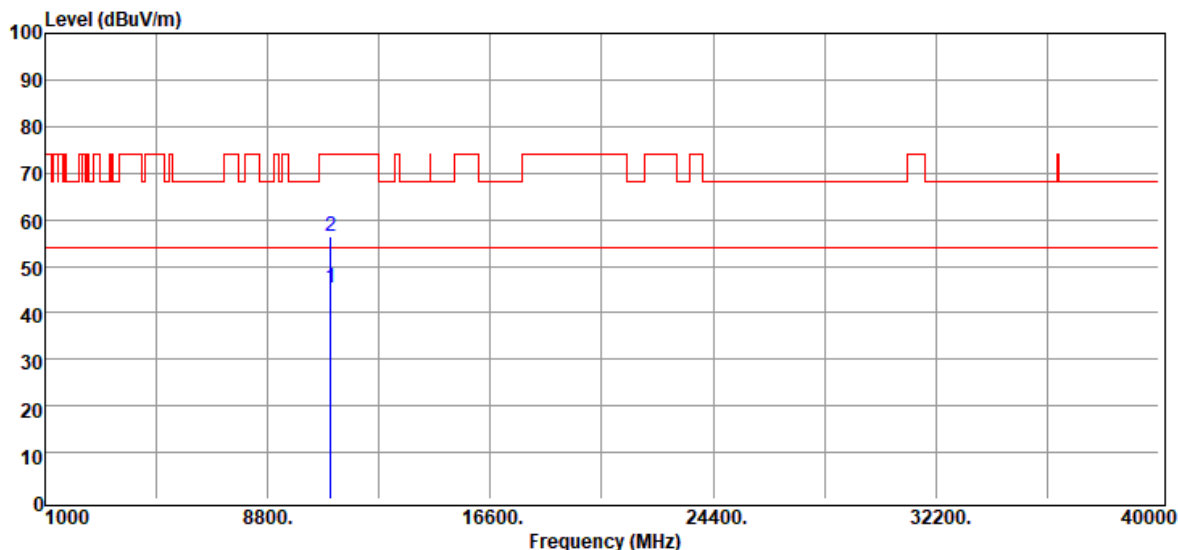
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802.11a 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5500 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	Average	28.00	17.44	45.44	54.00	-8.56
11000.00	Peak	39.04	17.44	56.48	74.00	-17.52

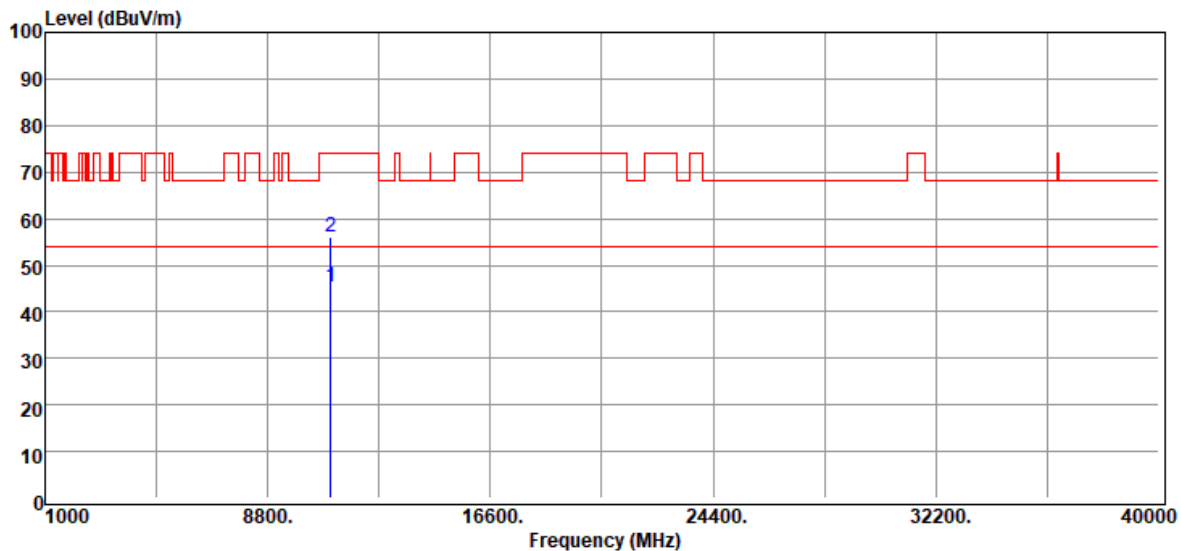
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Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5500 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	27.82	17.44	45.26	54.00	-8.74
11000.00	Peak	38.59	17.44	56.03	74.00	-17.97

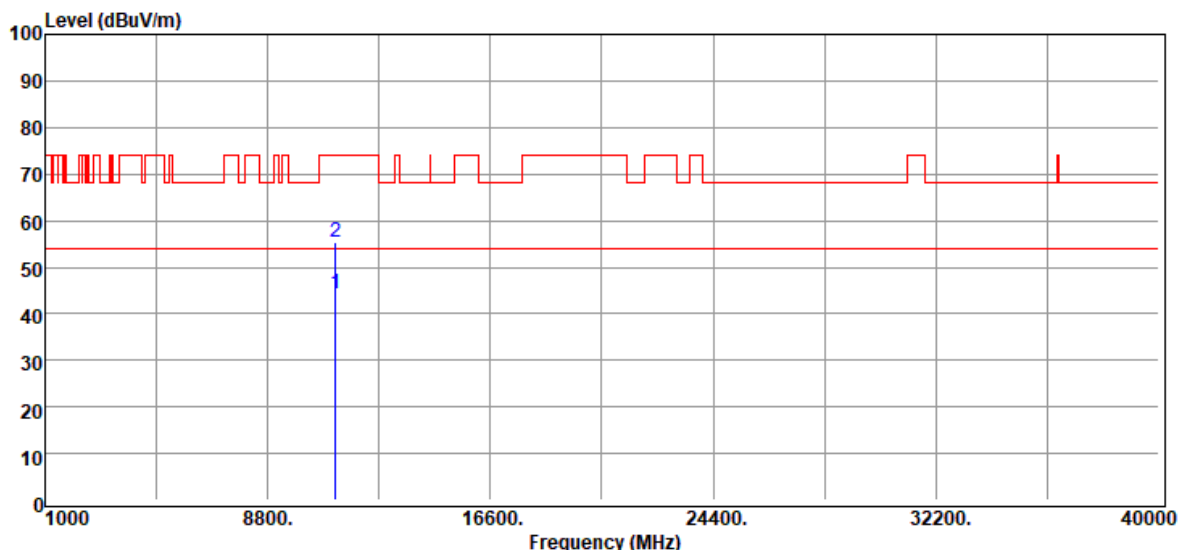
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Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.46	16.85	44.31	54.00	-9.69
11160.00	Peak	38.51	16.85	55.36	74.00	-18.64

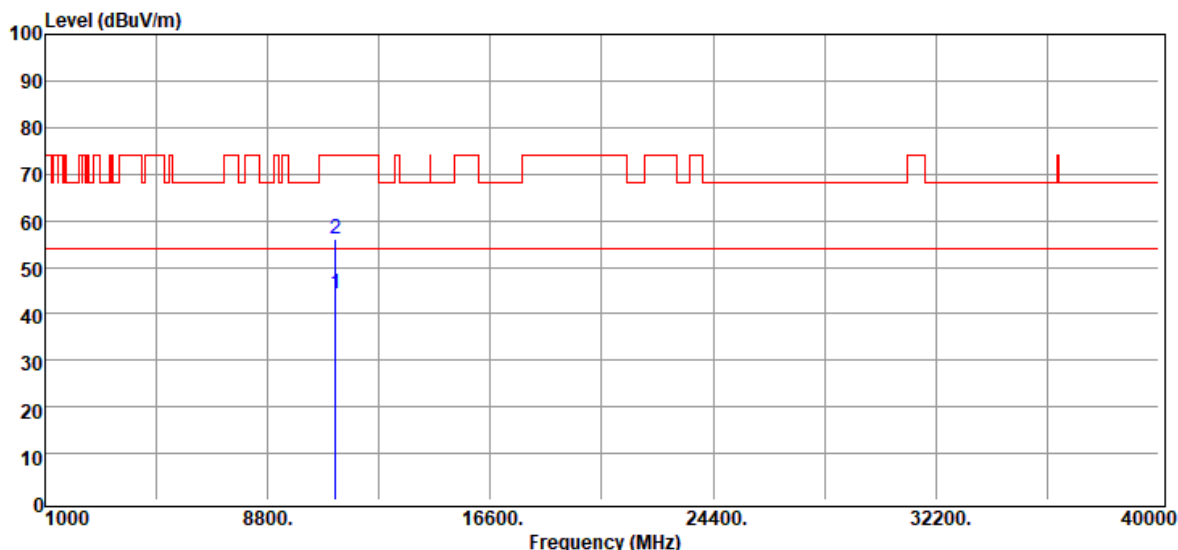
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Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	Average	27.43	16.85	44.28	54.00	-9.72
11160.00	Peak	39.21	16.85	56.06	74.00	-17.94

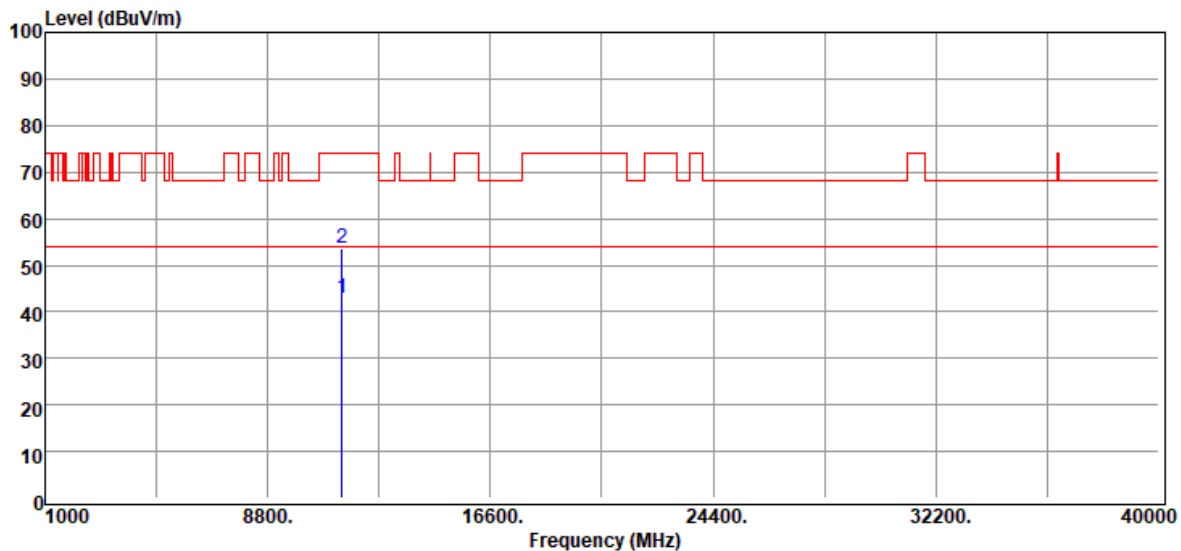
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Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5700 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.14	16.89	43.03	54.00	-10.97
11400.00	Peak	36.73	16.89	53.62	74.00	-20.38

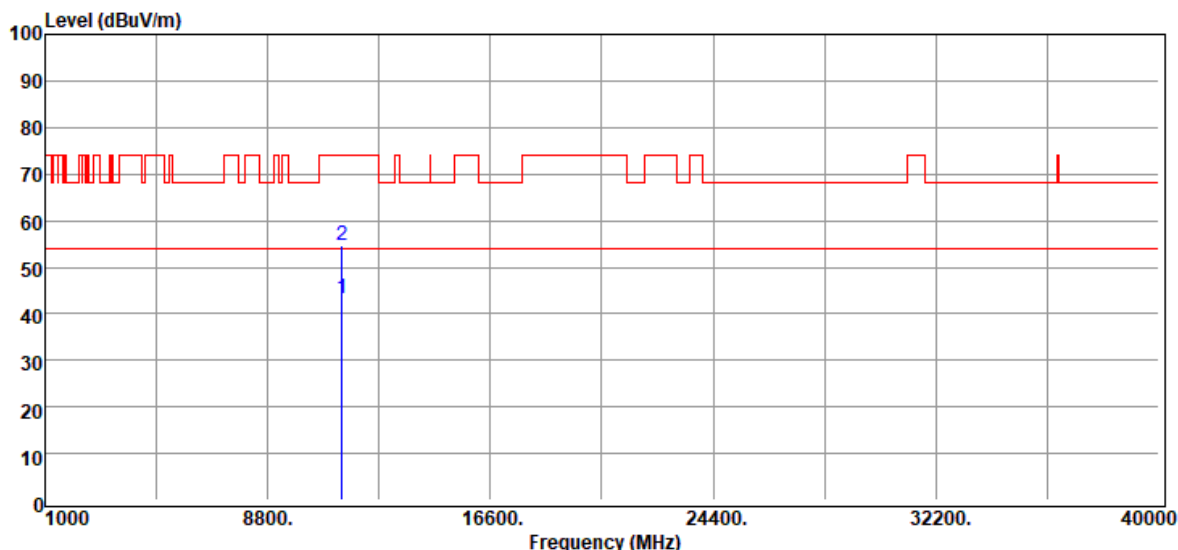
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Report Number :T190514W01
Operation Band :802.11a / Band 3
Fundamental Frequency :5700 MHz
Operation Mode :TX CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-13
Temp./Humi. :24/63
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.22	16.89	43.11	54.00	-10.89
11400.00	Peak	37.62	16.89	54.51	74.00	-19.49

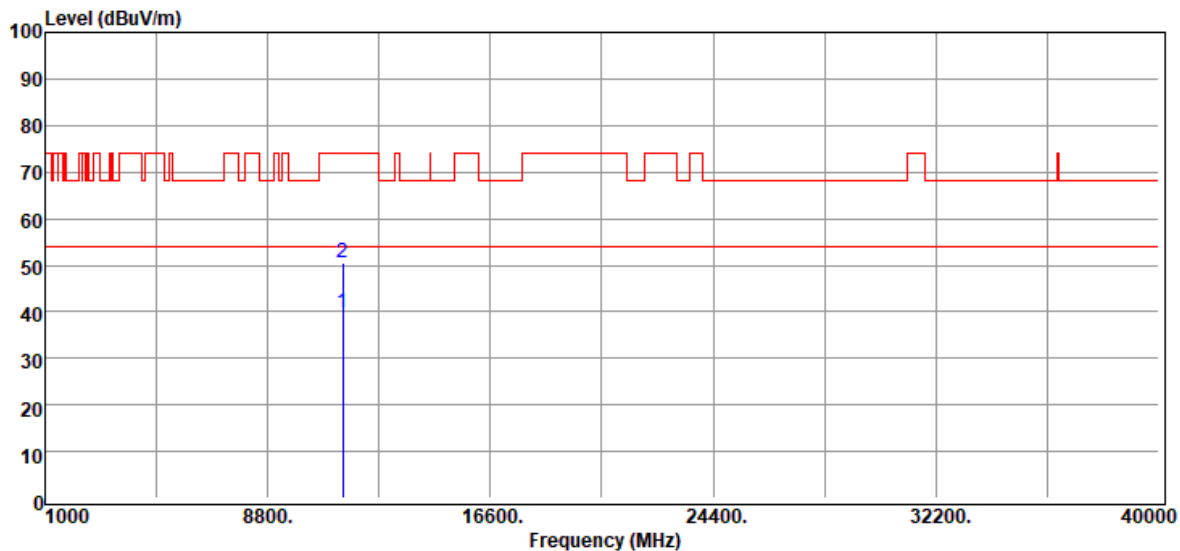
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Report Number :T190514W01
 Operation Band :802.11a / Band 3-4
 Fundamental Frequency :5720 MHz
 Operation Mode :TX CH 144
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	22.87	17.09	39.96	54.00	-14.04
11440.00	Peak	33.41	17.09	50.50	74.00	-23.50

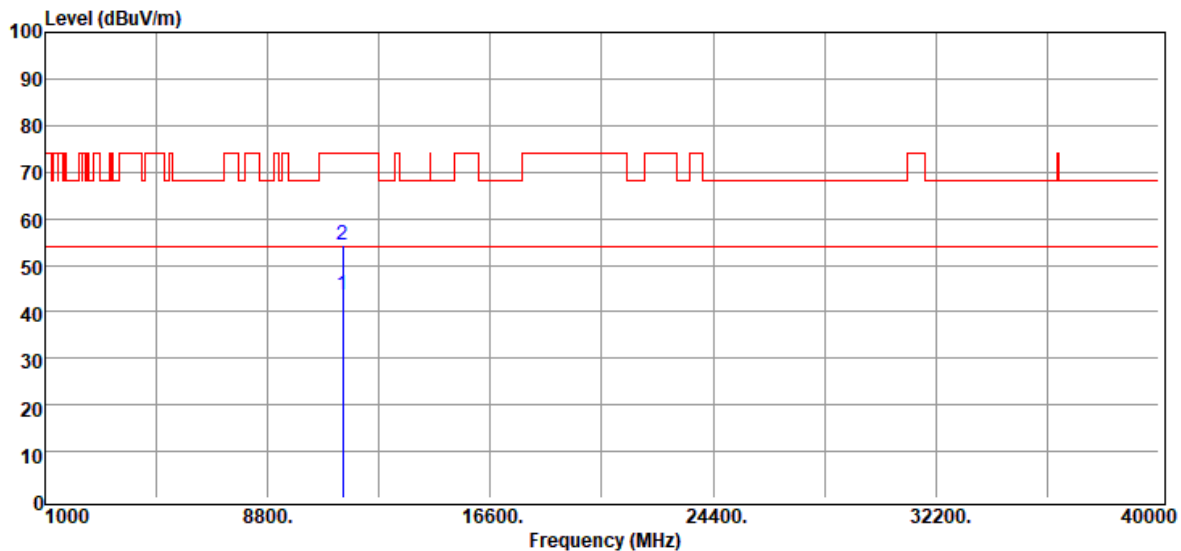
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Report Number :T190514W01
 Operation Band :802.11a / Band 3-4
 Fundamental Frequency :5720 MHz
 Operation Mode :TX CH 144
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.56	17.09	43.65	54.00	-10.35
11440.00	Peak	37.19	17.09	54.28	74.00	-19.72

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

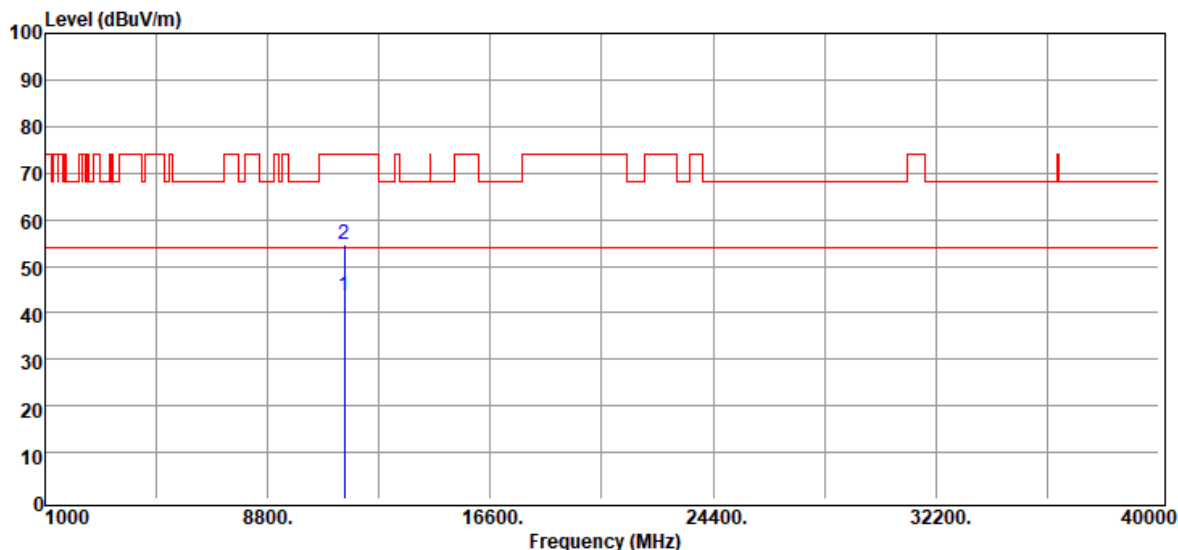
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802.11a 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5745 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	27.77	15.95	43.72	54.00	-10.28
11490.00	Peak	38.82	15.95	54.77	74.00	-19.23

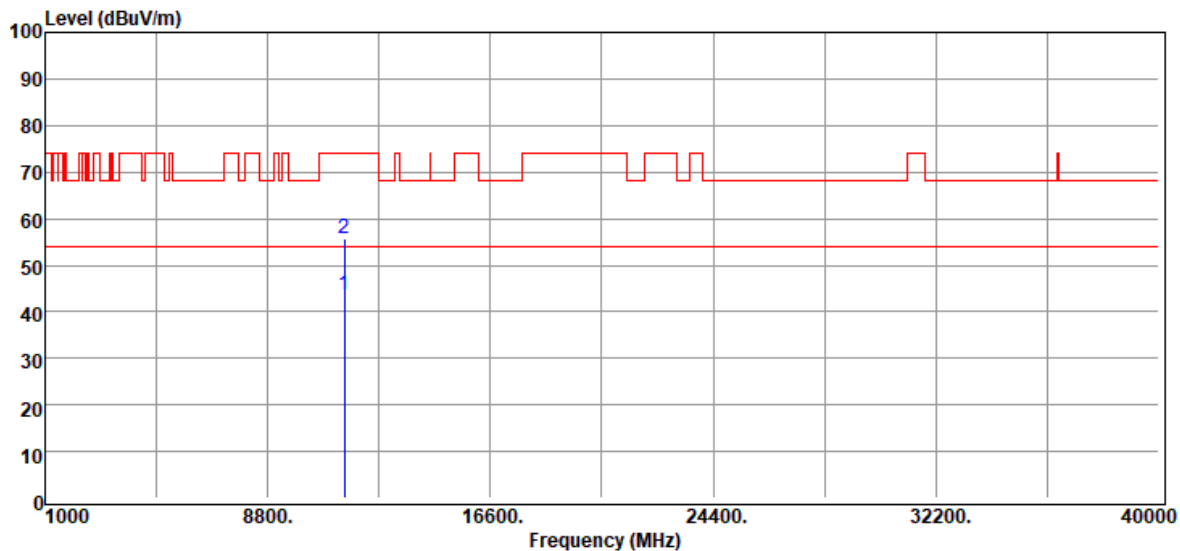
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5745 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	27.66	15.95	43.61	54.00	-10.39
11490.00	Peak	39.93	15.95	55.88	74.00	-18.12

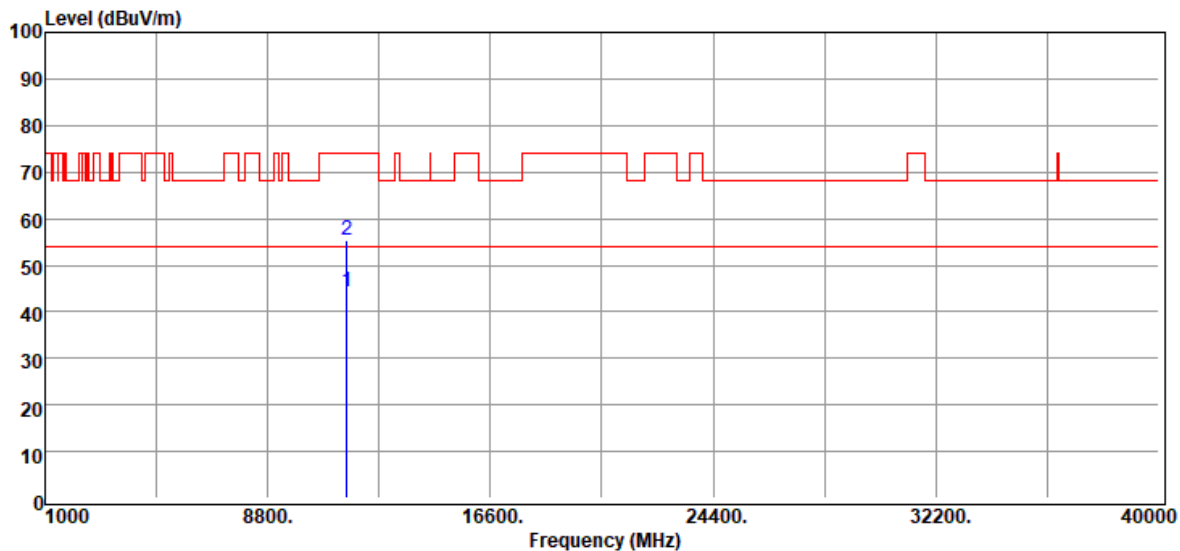
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Report Number :T190514W01
Operation Band :802.11a / Band 4
Fundamental Frequency :5785 MHz
Operation Mode :TX CH MID
EUT Pol. :H Plan

Test Date :2019-06-13
Temp./Humi. :24/63
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.02	16.41	44.43	54.00	-9.57
11570.00	Peak	38.83	16.41	55.24	74.00	-18.76

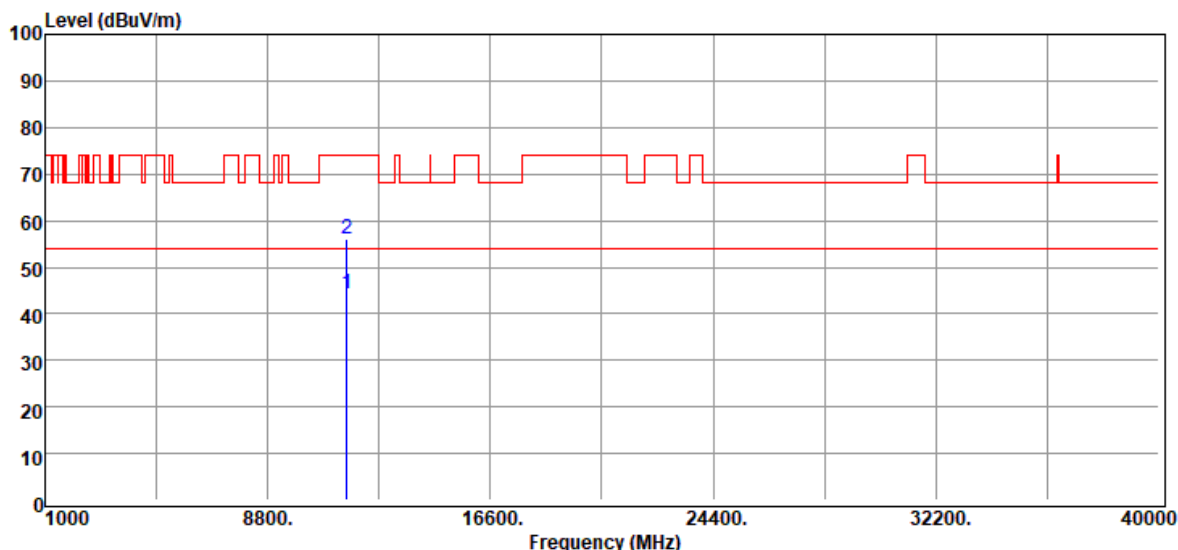
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5785 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.05	16.41	44.46	54.00	-9.54
11570.00	Peak	39.56	16.41	55.97	74.00	-18.03

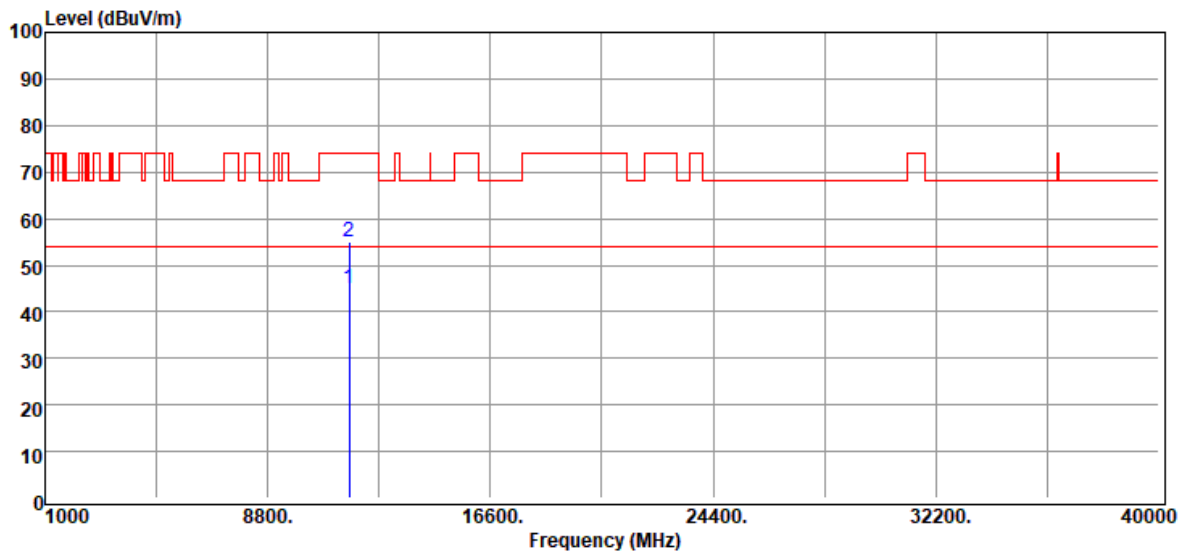
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.84	16.21	45.05	54.00	-8.95
11650.00	Peak	38.96	16.21	55.17	74.00	-18.83

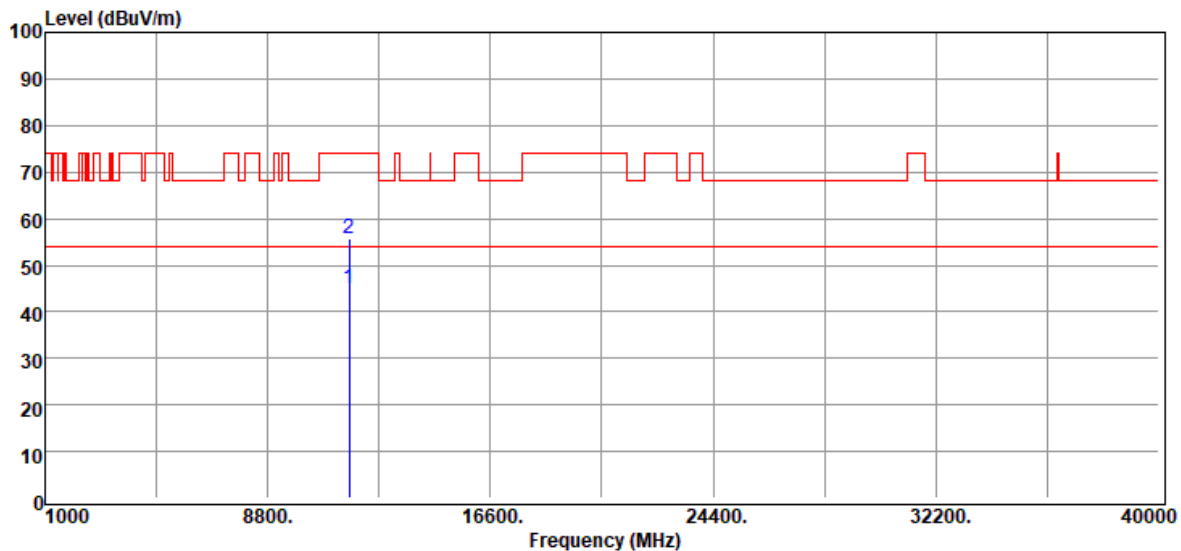
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :24/63
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	28.65	16.21	44.86	54.00	-9.14
11650.00	Peak	39.61	16.21	55.82	74.00	-18.18

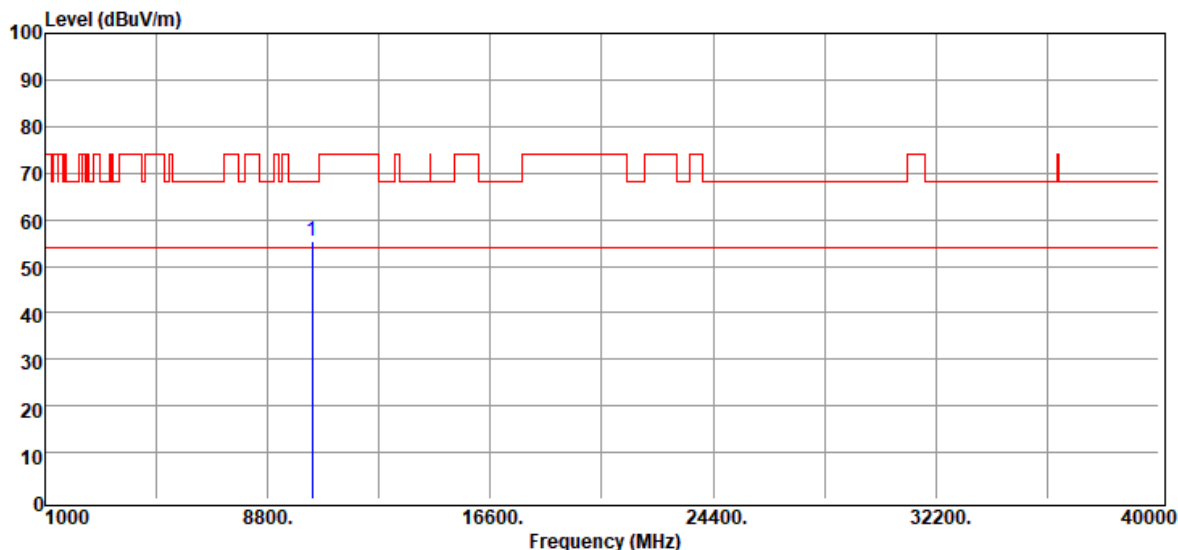
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802.11n HT20 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n20 / Band 1	Temp./Humi.	:23/65
Fundamental Frequency	:5180 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	40.67	14.73	55.40	68.20	-12.80

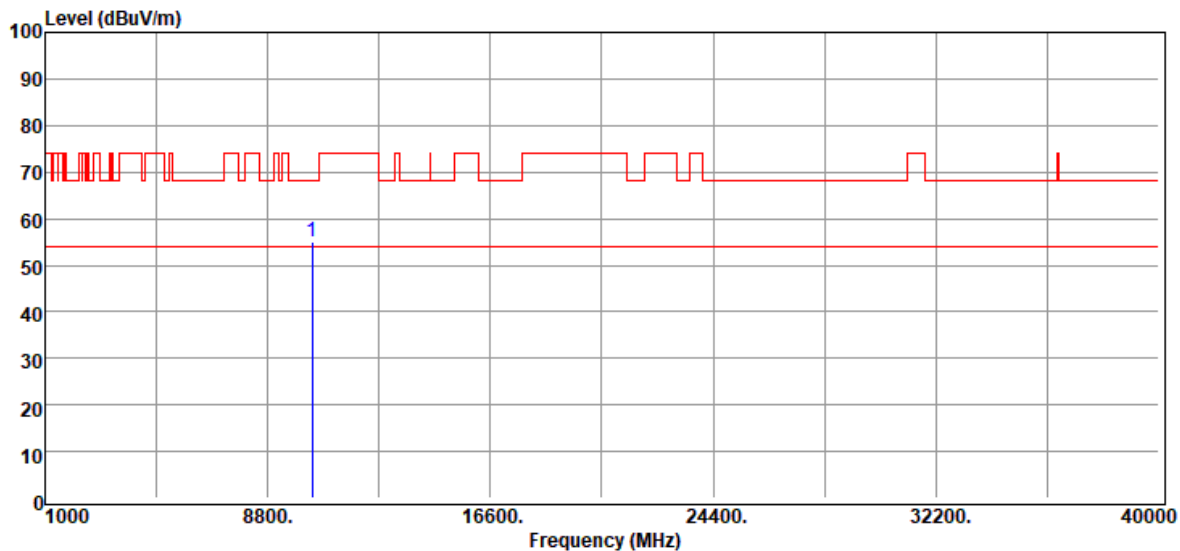
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 1
 Fundamental Frequency :5180 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10360.00	Peak	40.39	14.73	55.12	68.20	-13.08

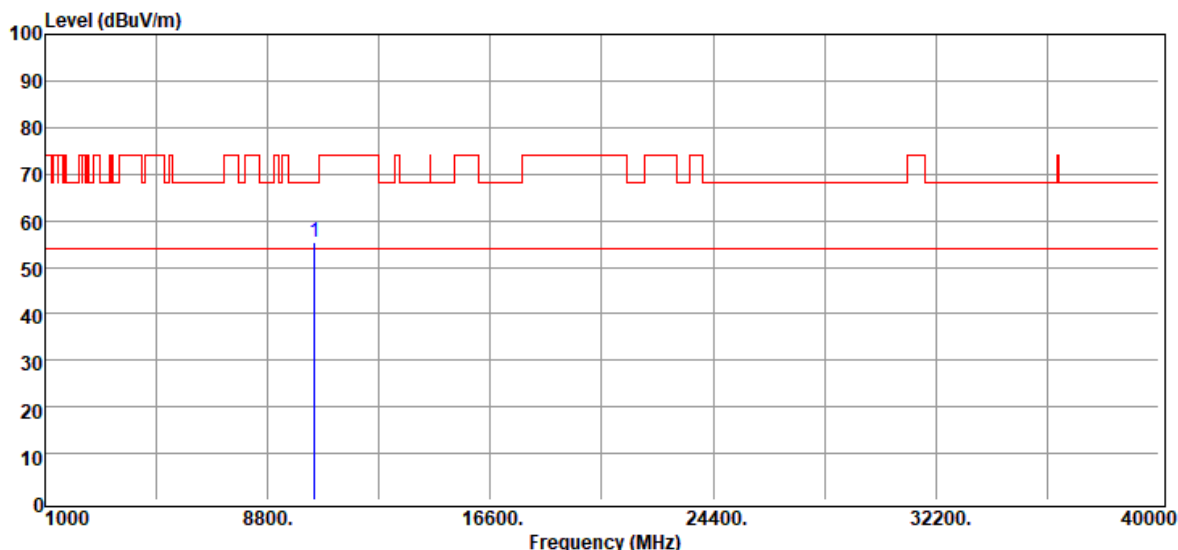
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 1
 Fundamental Frequency :5220 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	39.65	15.66	55.31	68.20	-12.89

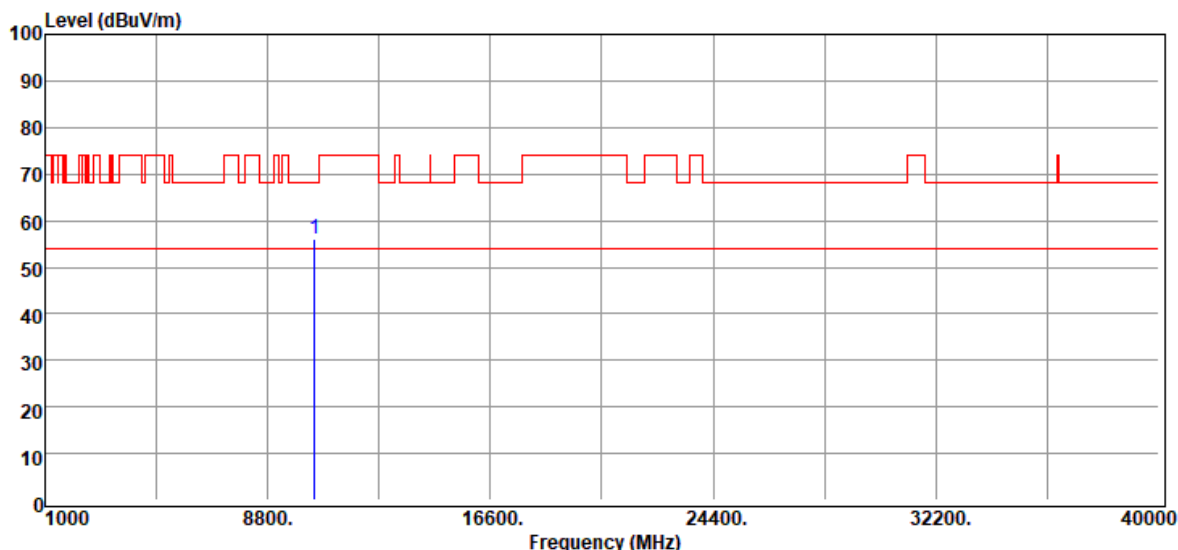
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 1
 Fundamental Frequency :5220 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10440.00	Peak	40.35	15.66	56.01	68.20	-12.19

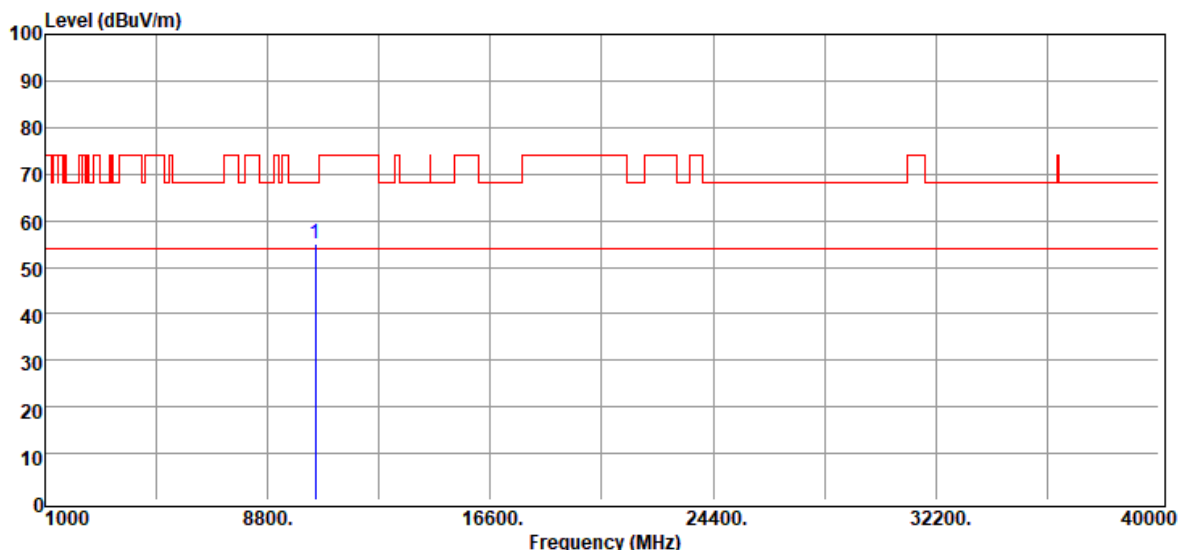
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 1
 Fundamental Frequency :5240 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.43	16.48	54.91	68.20	-13.29

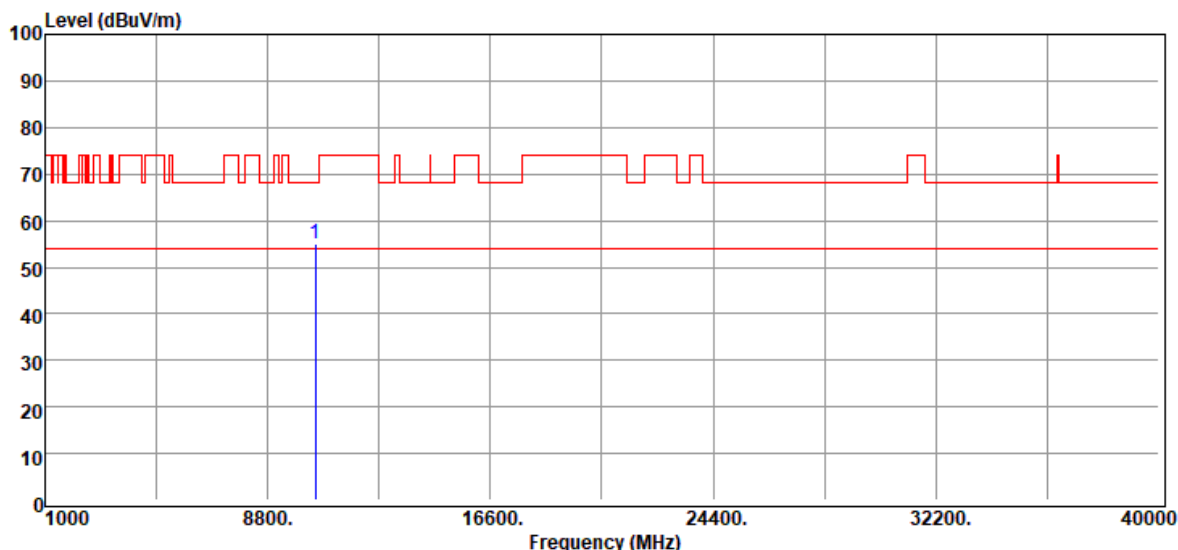
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 1
 Fundamental Frequency :5240 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	38.53	16.48	55.01	68.20	-13.19

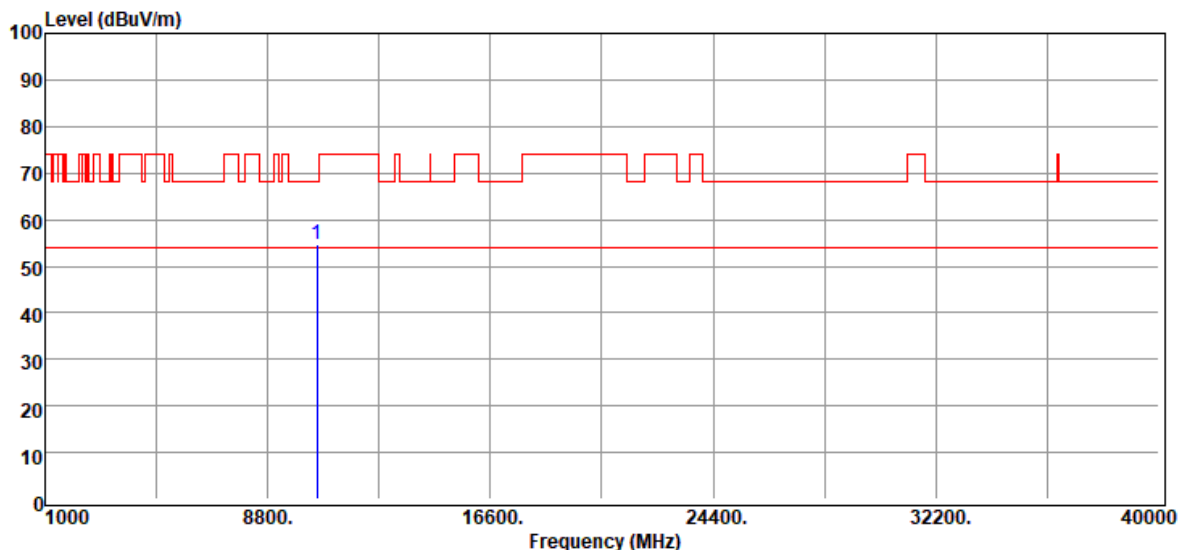
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802.11n HT20 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n20 / Band 2	Temp./Humi.	:23/65
Fundamental Frequency	:5260 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	Peak	38.67	15.99	54.66	68.20	-13.54

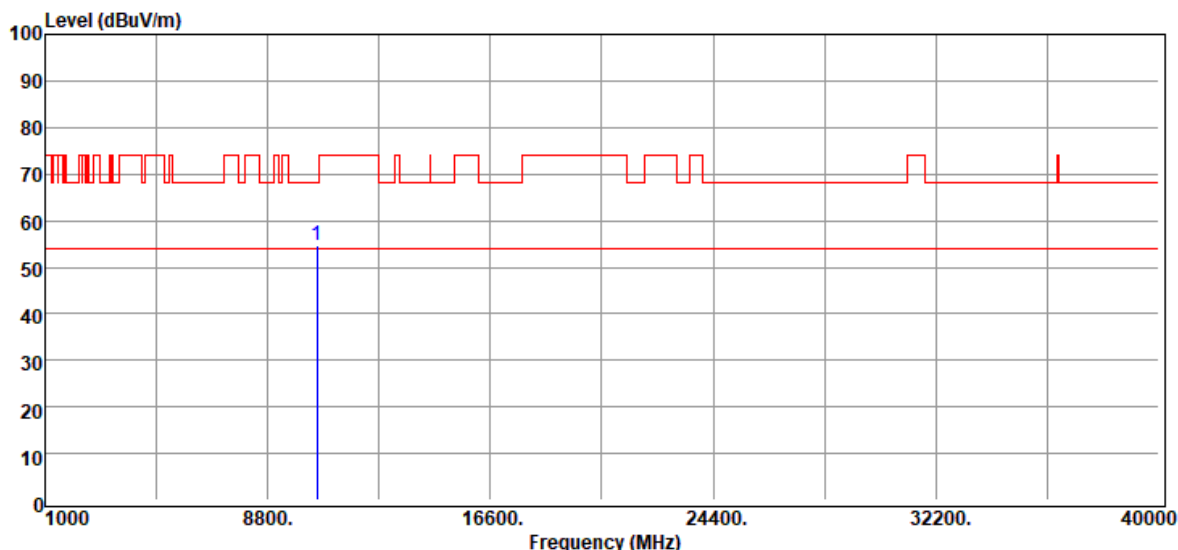
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 2
 Fundamental Frequency :5260 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10520.00	Peak	38.66	15.99	54.65	68.20	-13.55

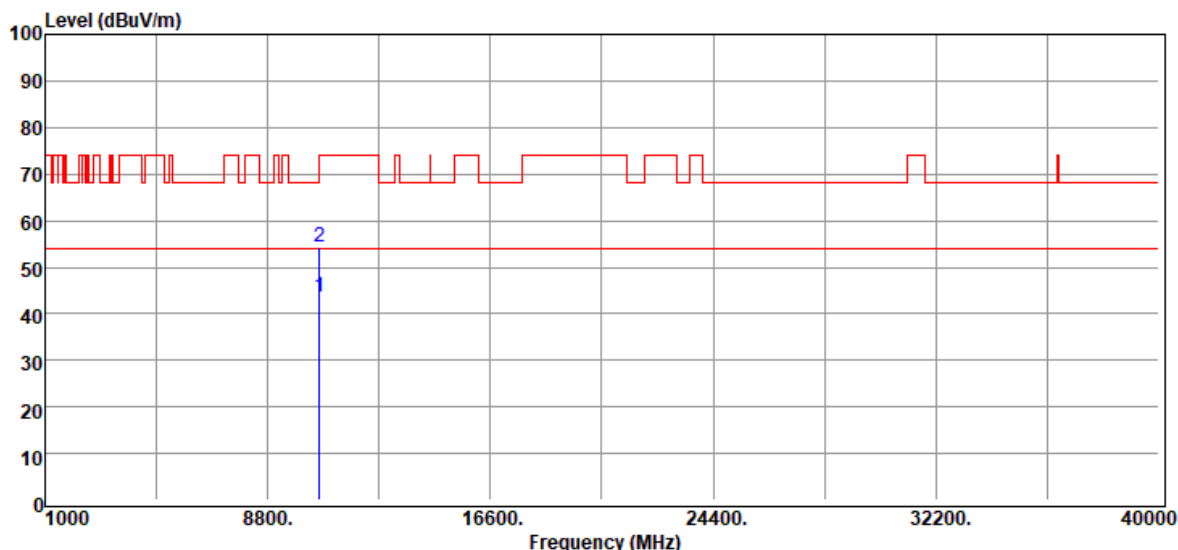
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 2
 Fundamental Frequency :5300 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	28.27	15.27	43.54	54.00	-10.46
10600.00	Peak	38.94	15.27	54.21	74.00	-19.79

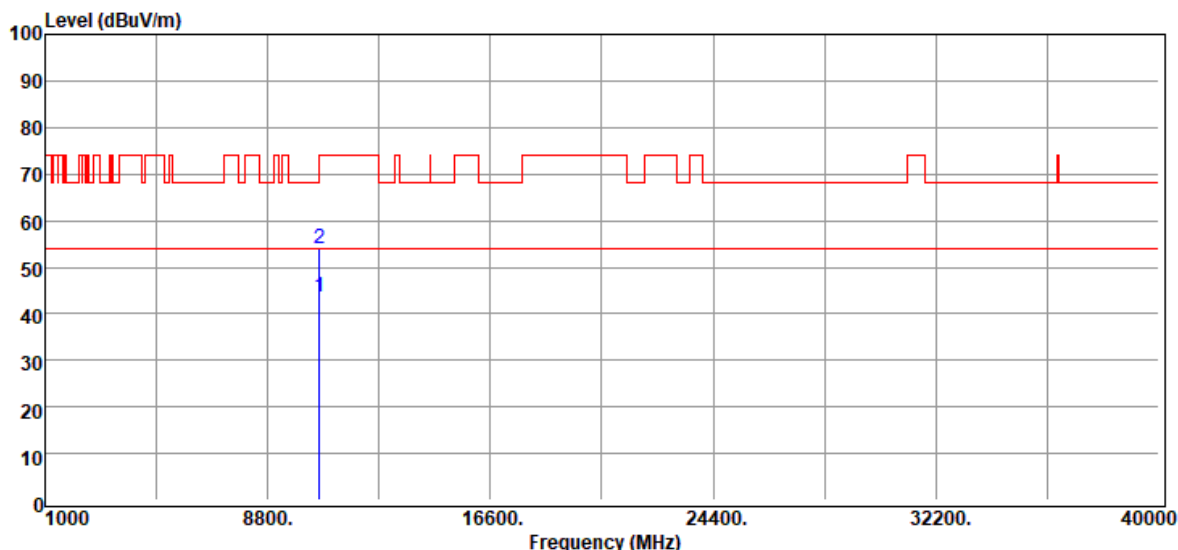
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 2
 Fundamental Frequency :5300 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Average	28.18	15.27	43.45	54.00	-10.55
10600.00	Peak	38.56	15.27	53.83	74.00	-20.17

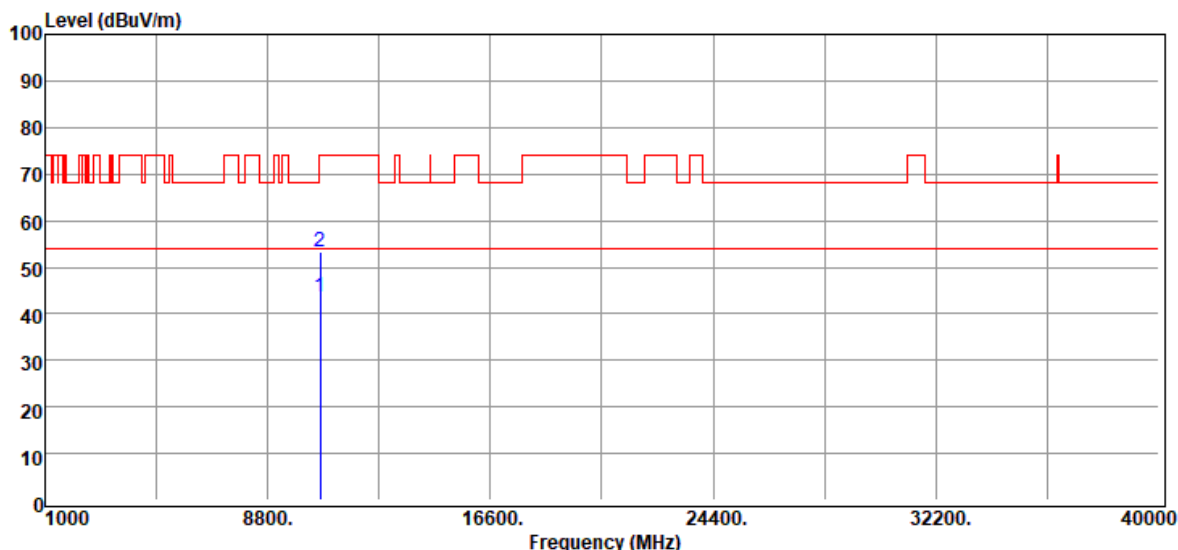
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 2
 Fundamental Frequency :5320 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.41	16.05	43.46	54.00	-10.54
10640.00	Peak	37.21	16.05	53.26	74.00	-20.74

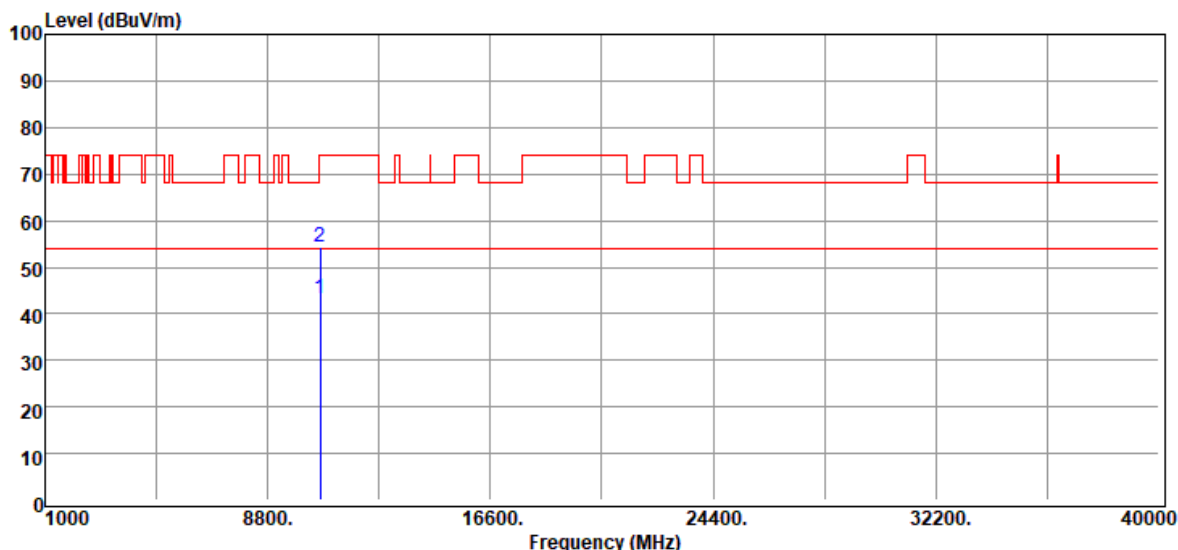
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 2
 Fundamental Frequency :5320 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Average	27.35	16.05	43.40	54.00	-10.60
10640.00	Peak	38.36	16.05	54.41	74.00	-19.59

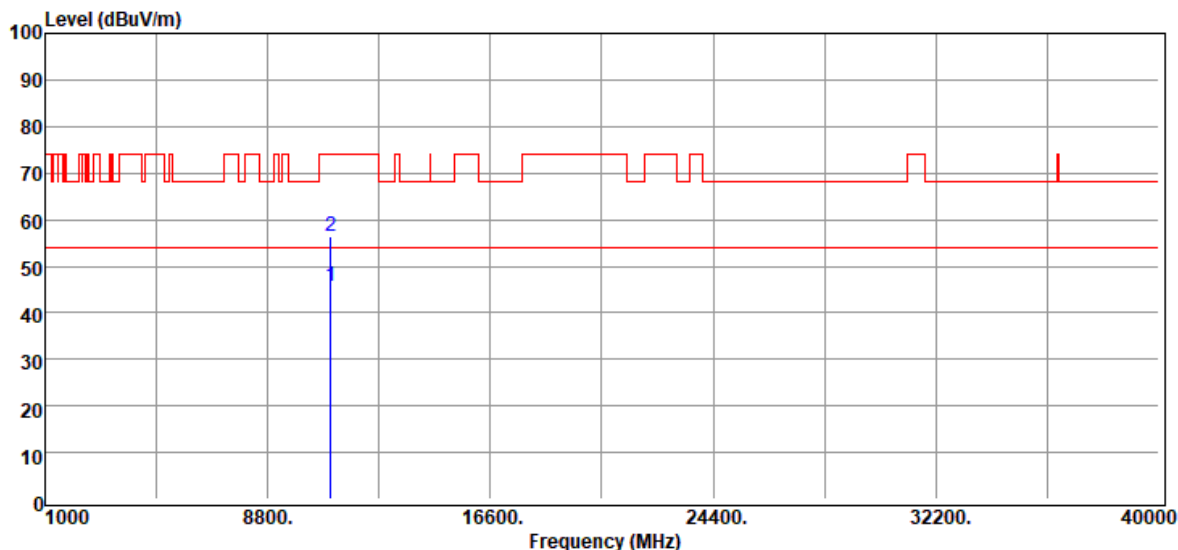
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802.11n HT20 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n20 / Band 3	Temp./Humi.	:23/65
Fundamental Frequency	:5500 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	Average	28.40	17.44	45.84	54.00	-8.16
11000.00	Peak	38.87	17.44	56.31	74.00	-17.69

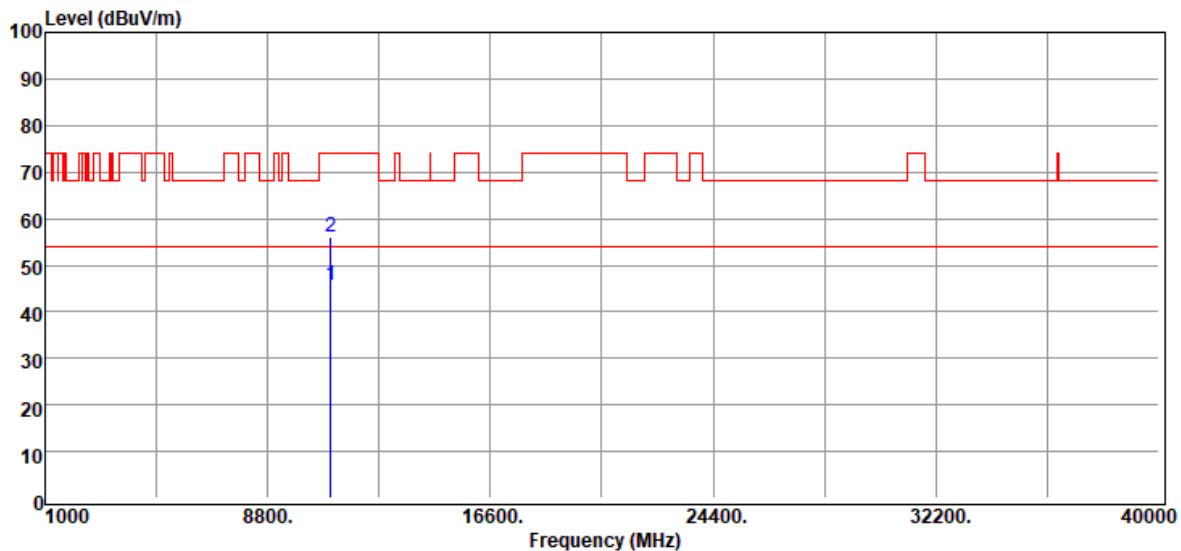
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5500 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Average	28.34	17.44	45.78	54.00	-8.22
11000.00	Peak	38.64	17.44	56.08	74.00	-17.92

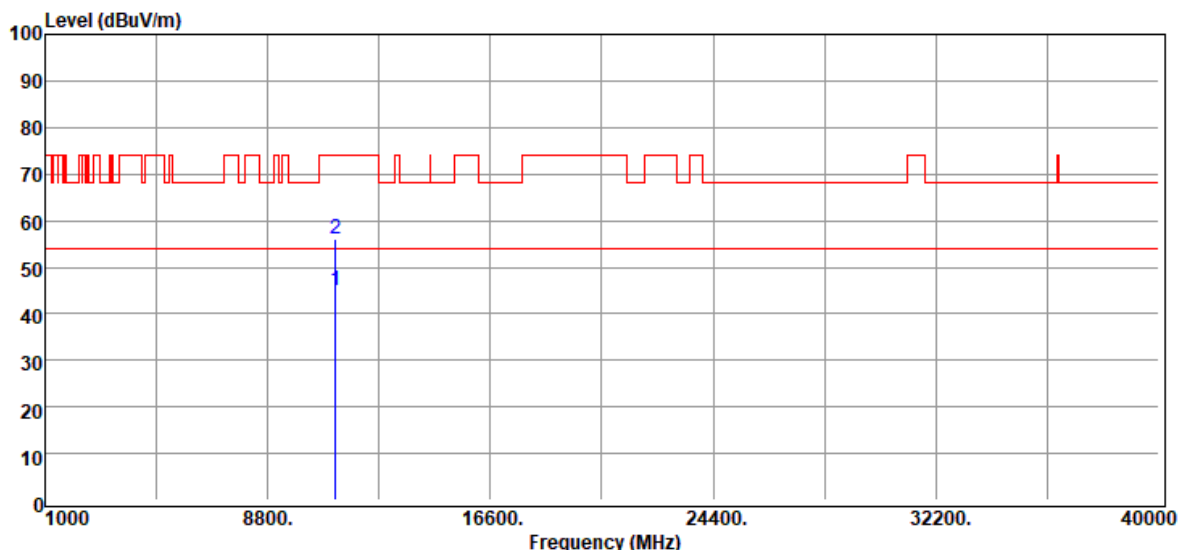
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	28.04	16.85	44.89	54.00	-9.11
11160.00	Peak	39.24	16.85	56.09	74.00	-17.91

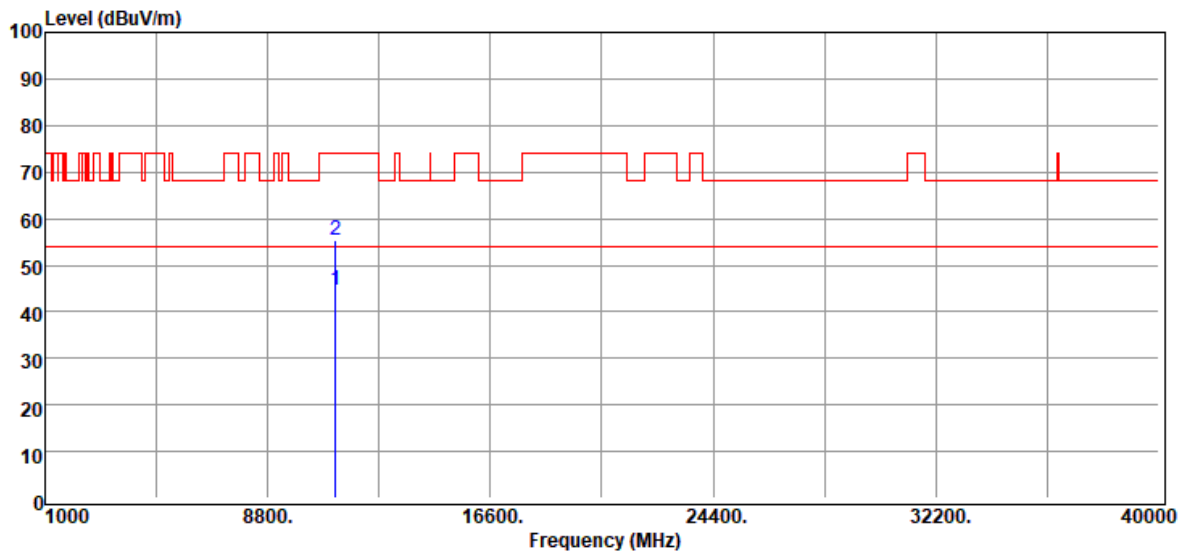
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Average	27.93	16.85	44.78	54.00	-9.22
11160.00	Peak	38.52	16.85	55.37	74.00	-18.63

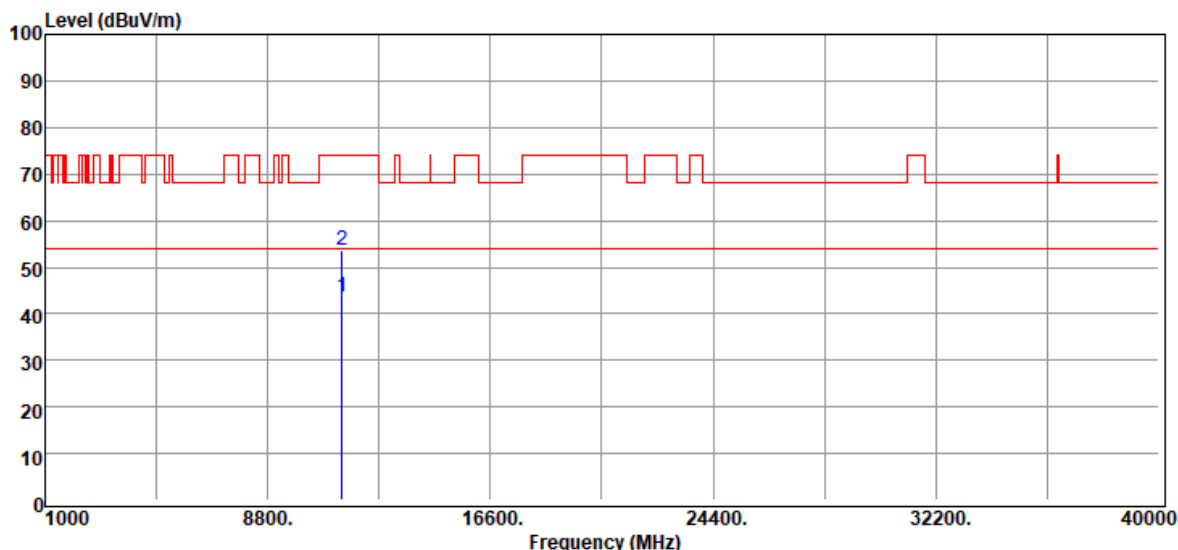
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5700 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.81	16.89	43.70	54.00	-10.30
11400.00	Peak	36.80	16.89	53.69	74.00	-20.31

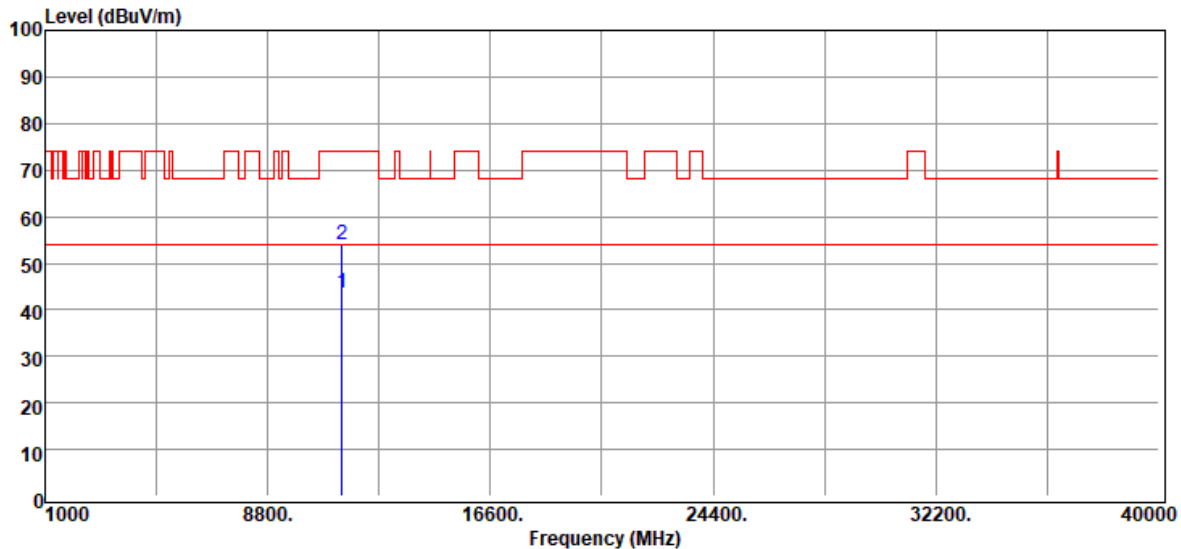
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5700 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Average	26.68	16.89	43.57	54.00	-10.43
11400.00	Peak	37.18	16.89	54.07	74.00	-19.93

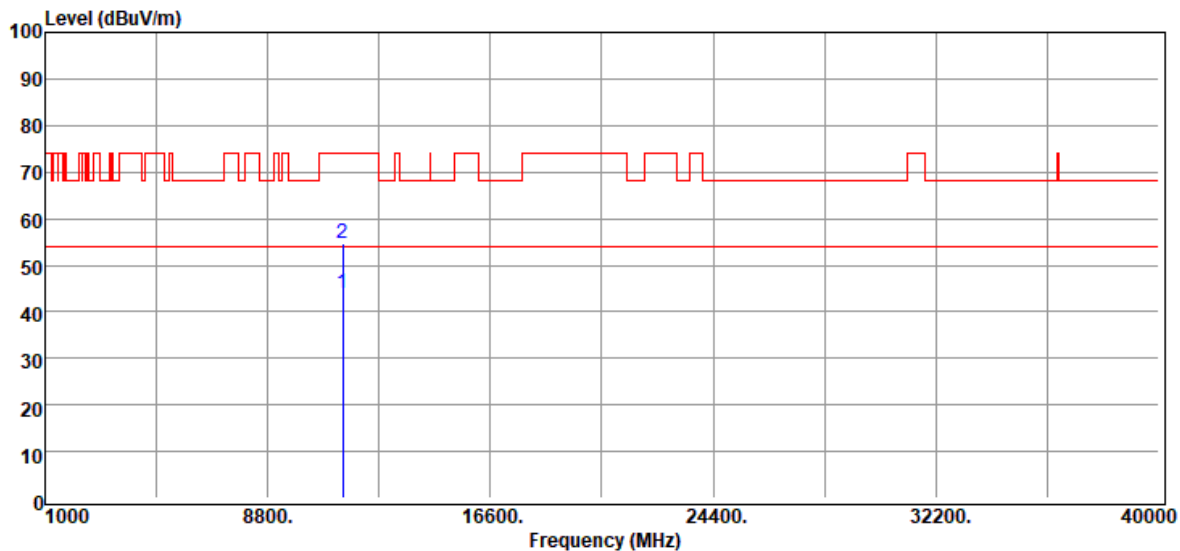
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3-4
 Fundamental Frequency :5720 MHz
 Operation Mode :TX CH 144
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.87	17.09	43.96	54.00	-10.04
11440.00	Peak	37.51	17.09	54.60	74.00	-19.40

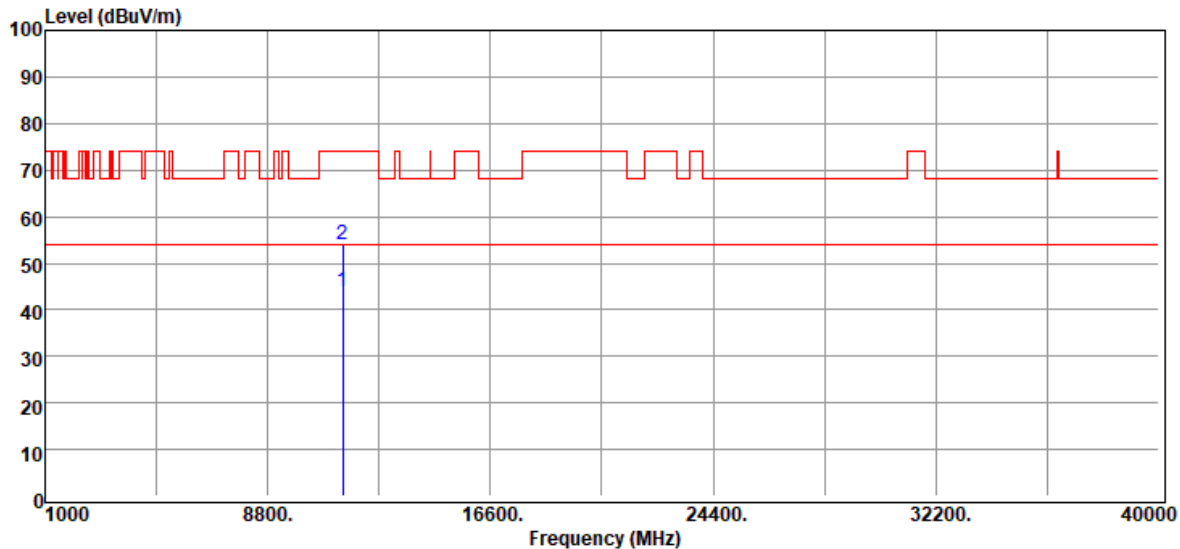
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3-4
 Fundamental Frequency :5720 MHz
 Operation Mode :TX CH 144
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.00	Average	26.75	17.09	43.84	54.00	-10.16
11440.00	Peak	36.93	17.09	54.02	74.00	-19.98

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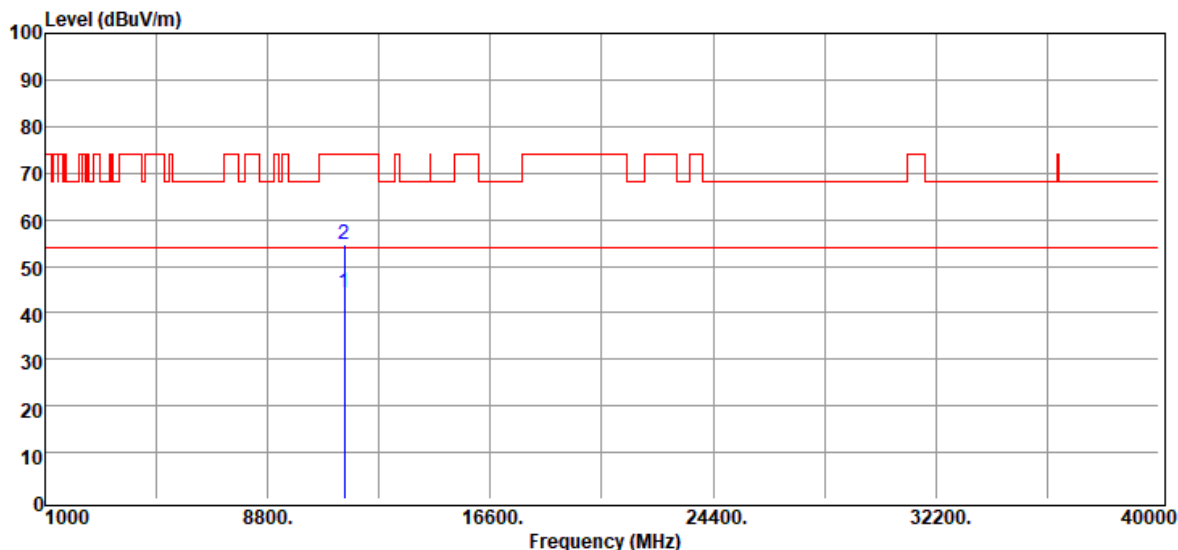
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80.11n HT20 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5745 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	28.32	15.95	44.27	54.00	-9.73
11490.00	Peak	38.55	15.95	54.50	74.00	-19.50

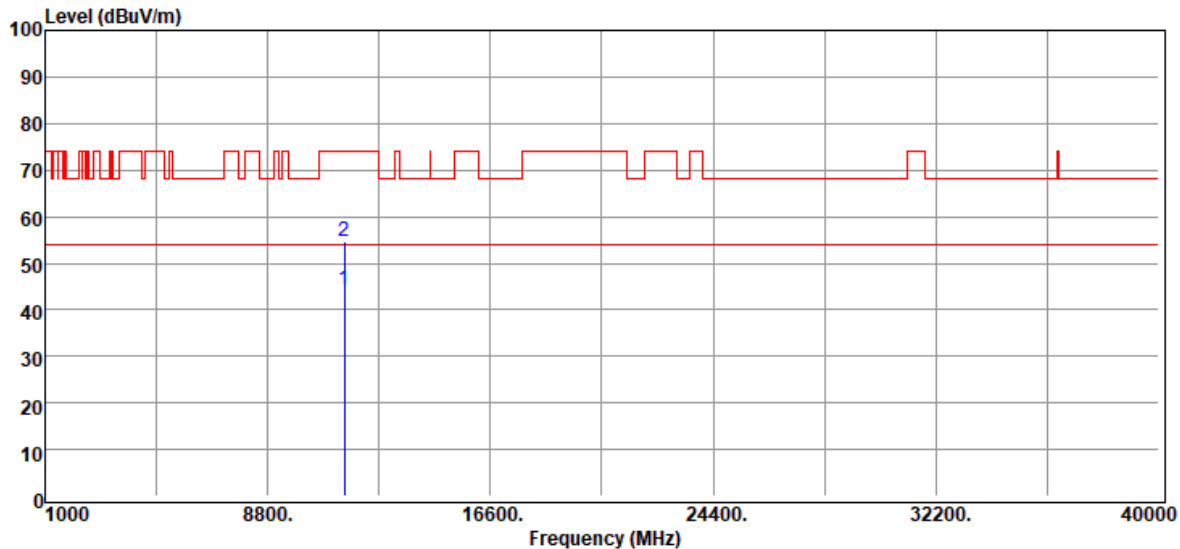
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5745 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Average	28.25	15.95	44.20	54.00	-9.80
11490.00	Peak	38.69	15.95	54.64	74.00	-19.36

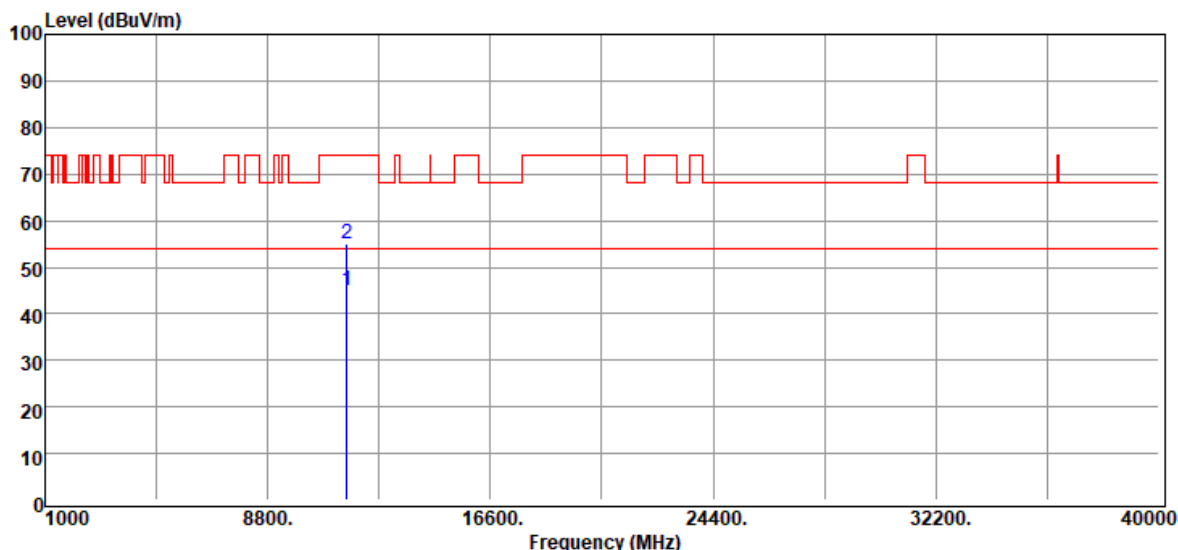
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5785 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	28.61	16.41	45.02	54.00	-8.98
11570.00	Peak	38.57	16.41	54.98	74.00	-19.02

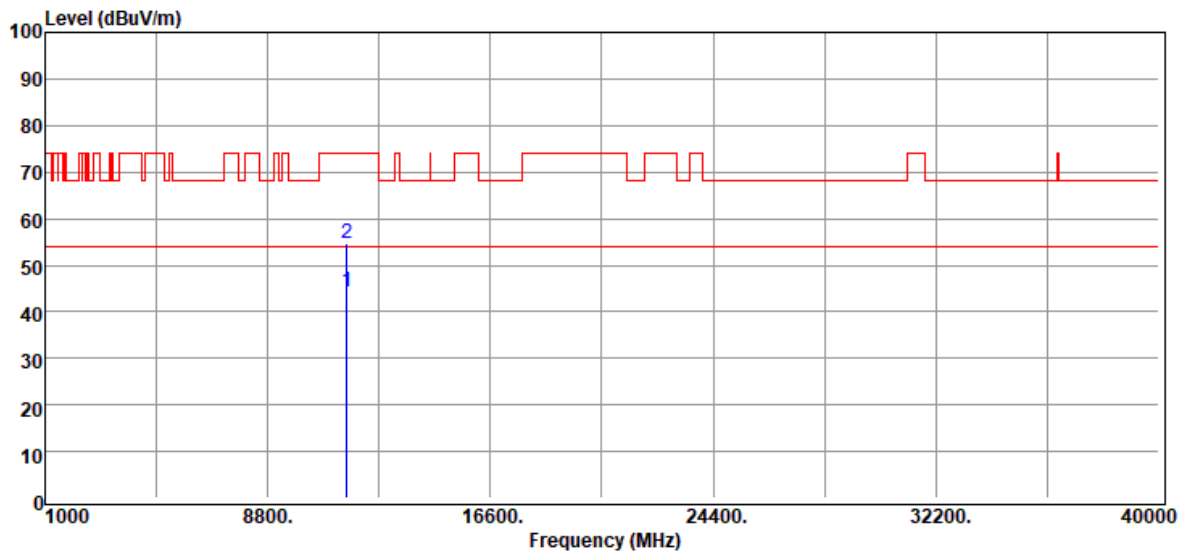
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5785 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Average	27.75	16.41	44.16	54.00	-9.84
11570.00	Peak	38.27	16.41	54.68	74.00	-19.32

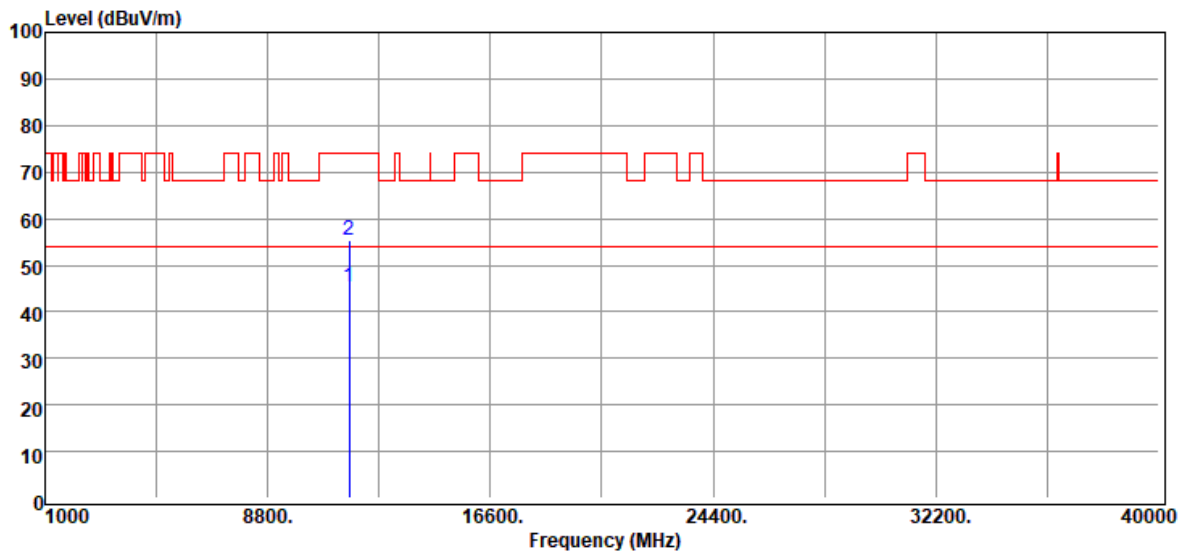
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	29.23	16.21	45.44	54.00	-8.56
11650.00	Peak	39.16	16.21	55.37	74.00	-18.63

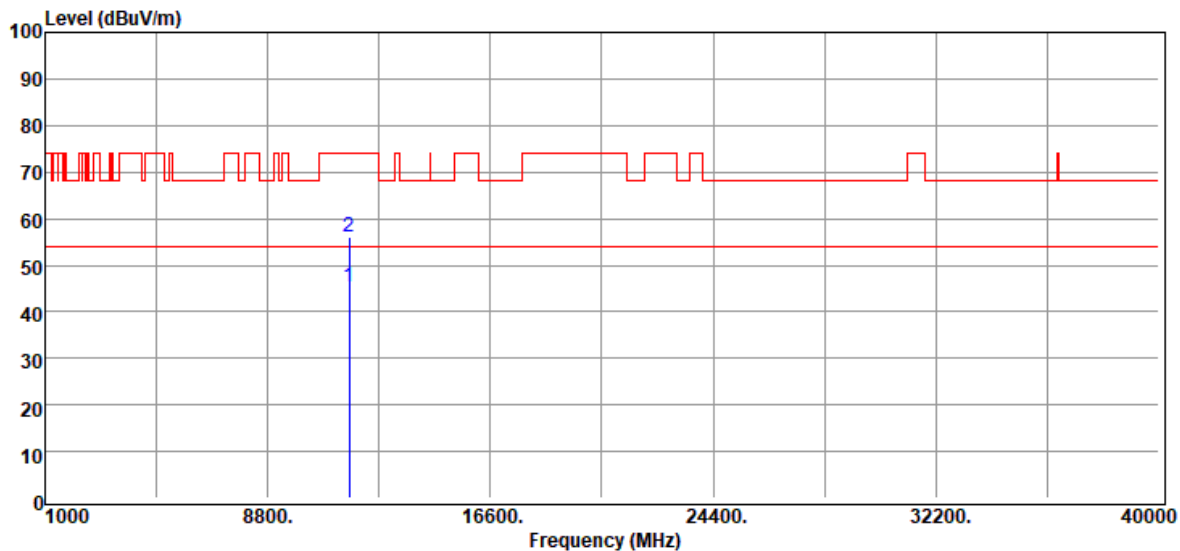
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Average	29.07	16.21	45.28	54.00	-8.72
11650.00	Peak	40.01	16.21	56.22	74.00	-17.78

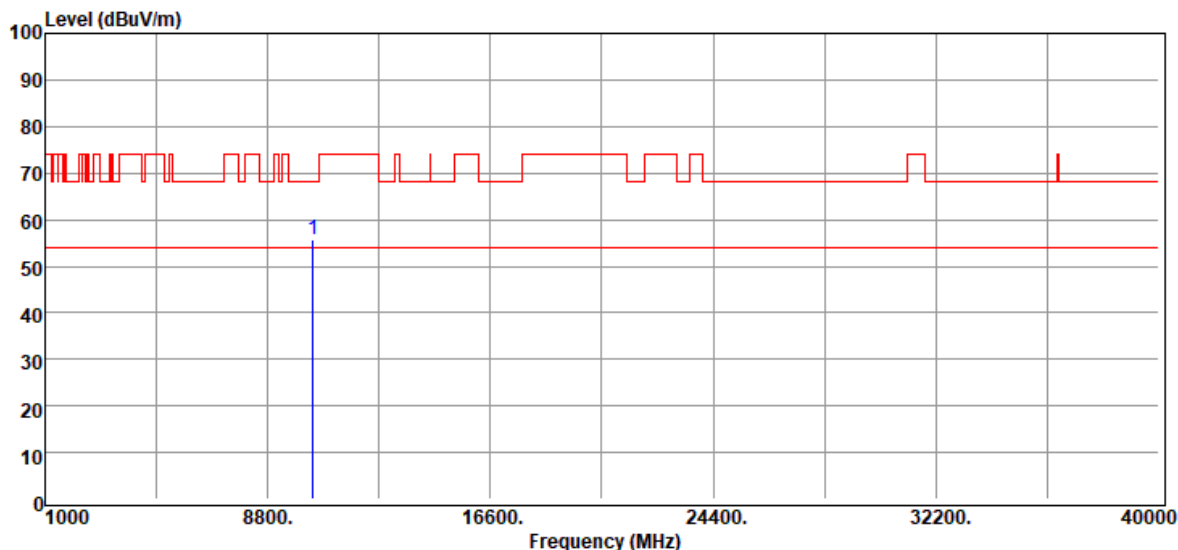
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802.11n HT40 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n40 / Band 1	Temp./Humi.	:23/65
Fundamental Frequency	:5190 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	Peak	40.82	14.82	55.64	68.20	-12.56

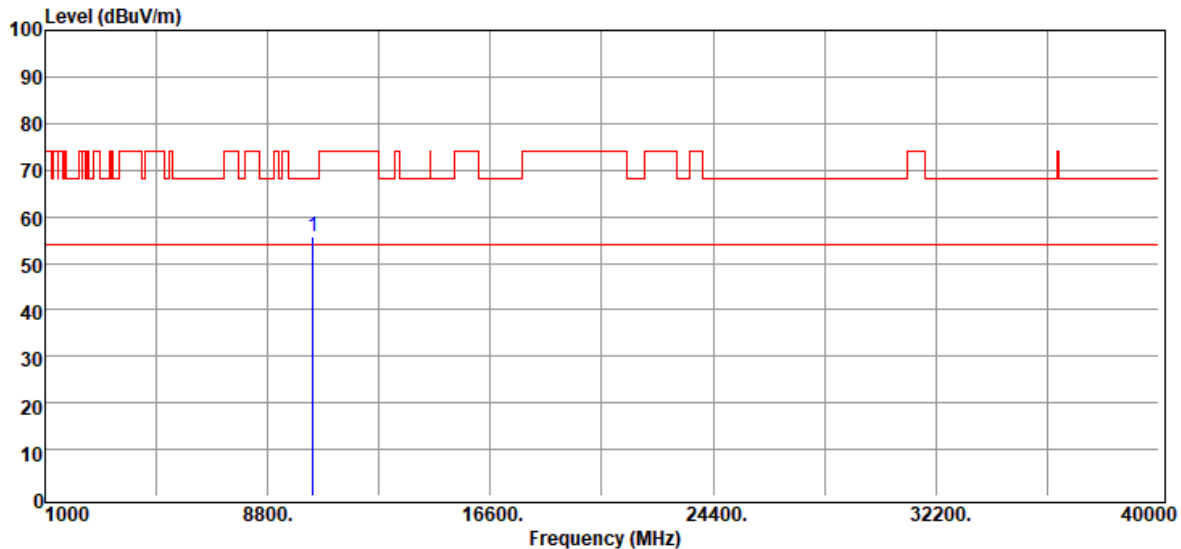
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 1
 Fundamental Frequency :5190 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10380.00	Peak	41.02	14.82	55.84	68.20	-12.36

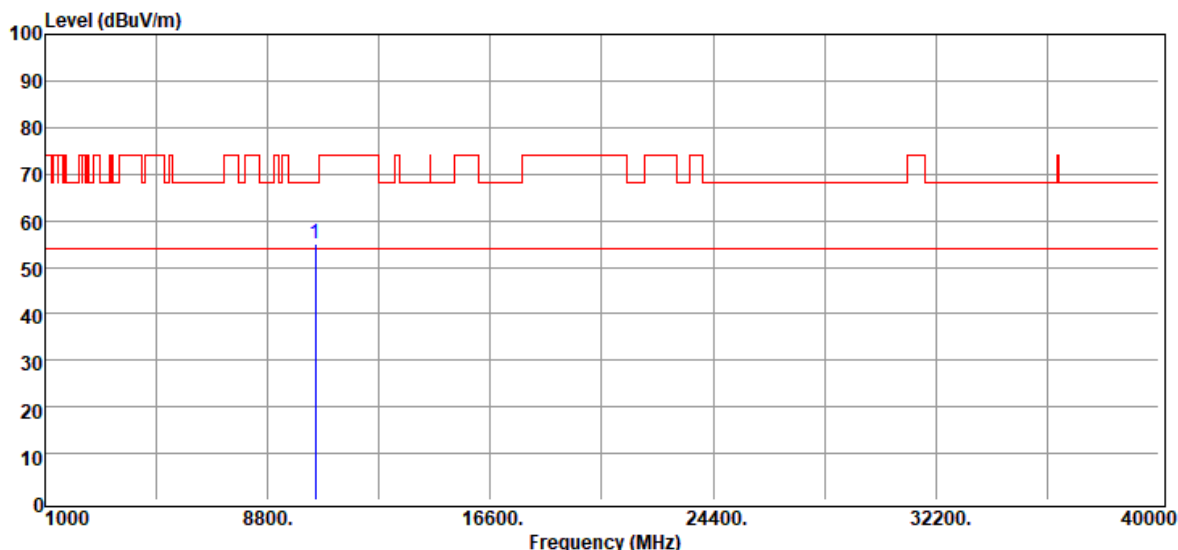
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 1
 Fundamental Frequency :5230 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	38.94	16.01	54.95	68.20	-13.25

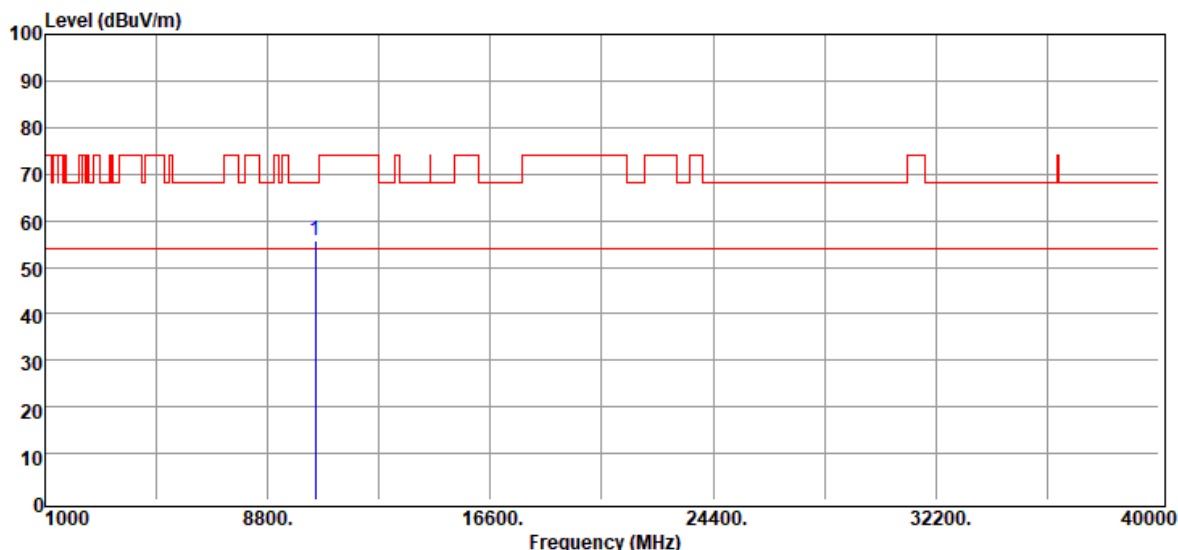
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 1
 Fundamental Frequency :5230 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	39.58	16.01	55.59	68.20	-12.61

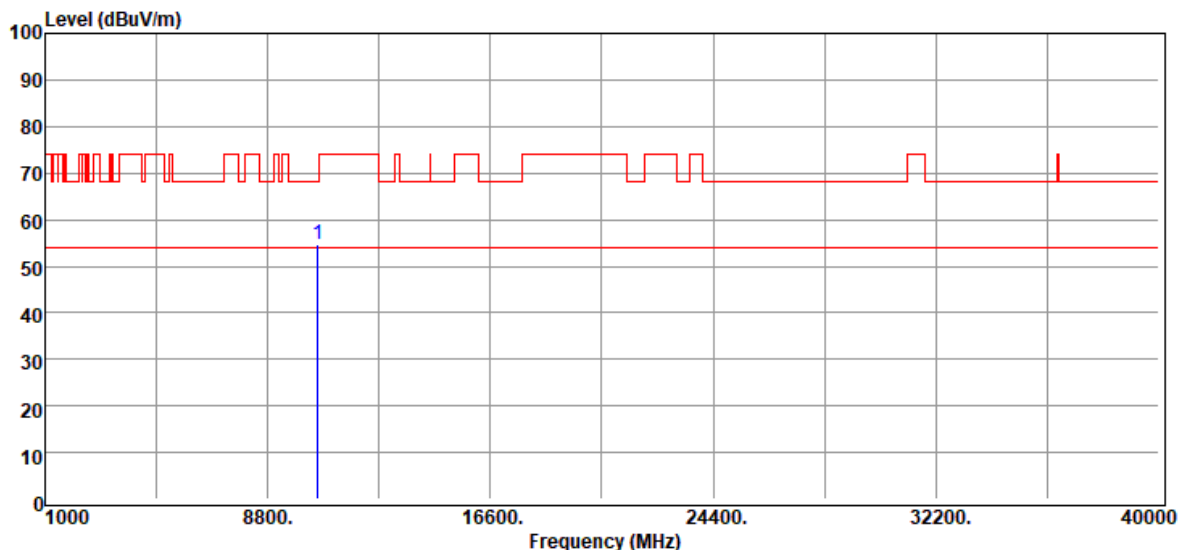
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802.11n HT40 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n40 / Band 2	Temp./Humi.	: 23/65
Fundamental Frequency	:5270 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	Peak	38.90	15.67	54.57	68.20	-13.63

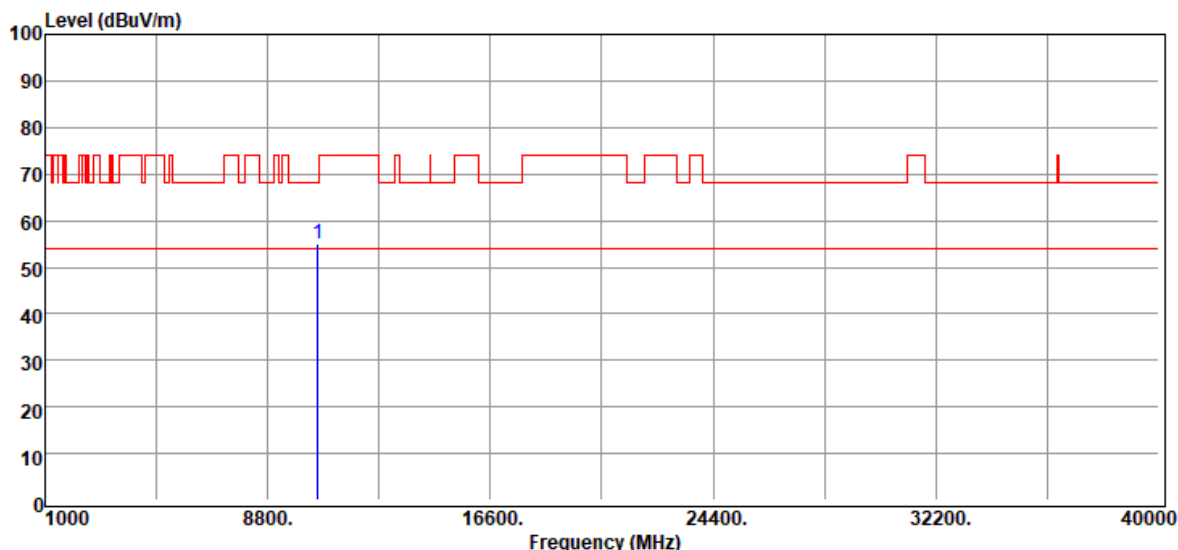
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 2
 Fundamental Frequency :5270 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	39.42	15.67	55.09	68.20	-13.11

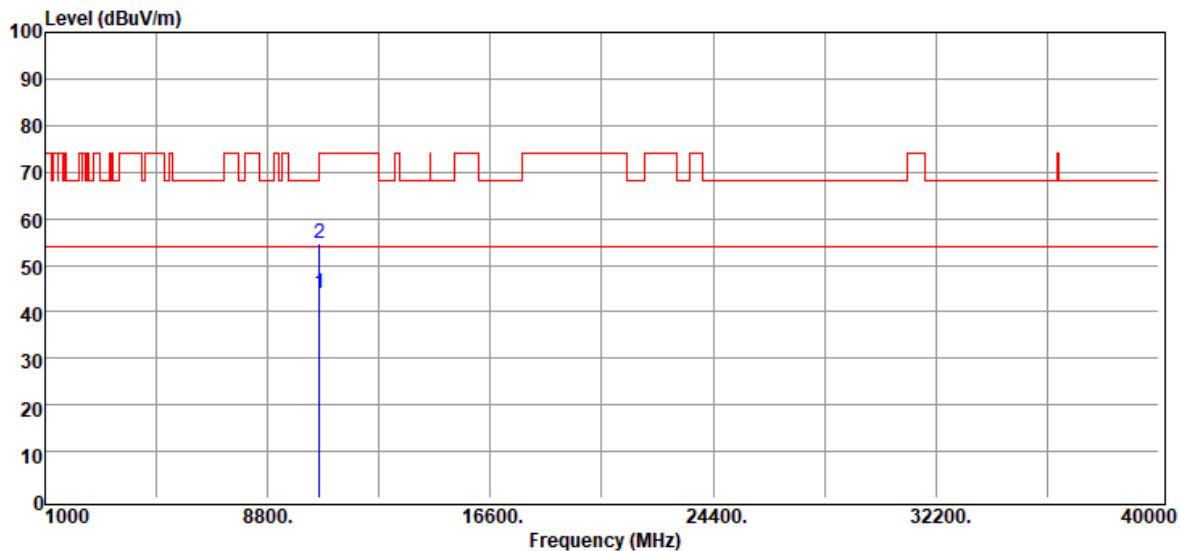
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 2
 Fundamental Frequency :5310 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	Average	28.36	15.66	44.02	54.00	-9.98
10620.00	Peak	38.92	15.66	54.58	74.00	-19.42

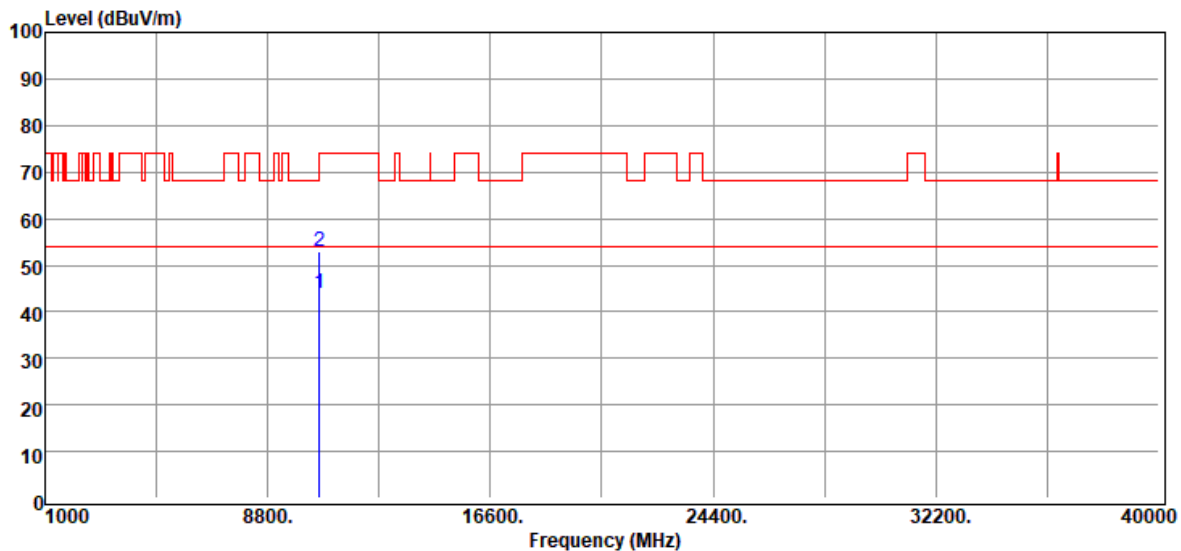
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 2
 Fundamental Frequency :5310 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Average	28.32	15.66	43.98	54.00	-10.02
10620.00	Peak	37.36	15.66	53.02	74.00	-20.98

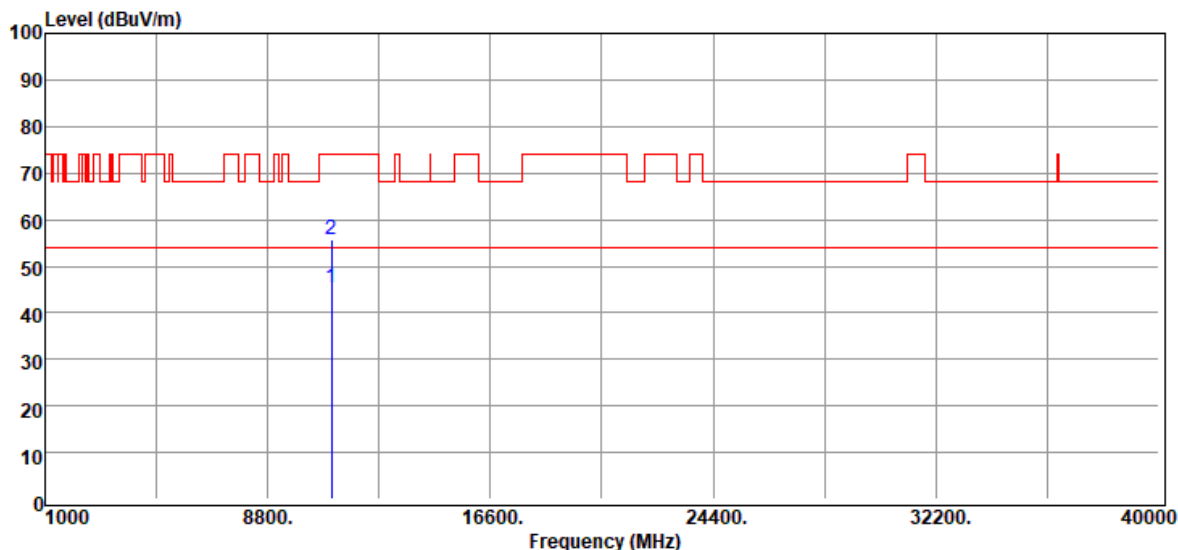
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802.11n HT40 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n40 / Band 3	Temp./Humi.	:23/65
Fundamental Frequency	:5510 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.00	Average	27.50	17.69	45.19	54.00	-8.81
11020.00	Peak	38.15	17.69	55.84	74.00	-18.16

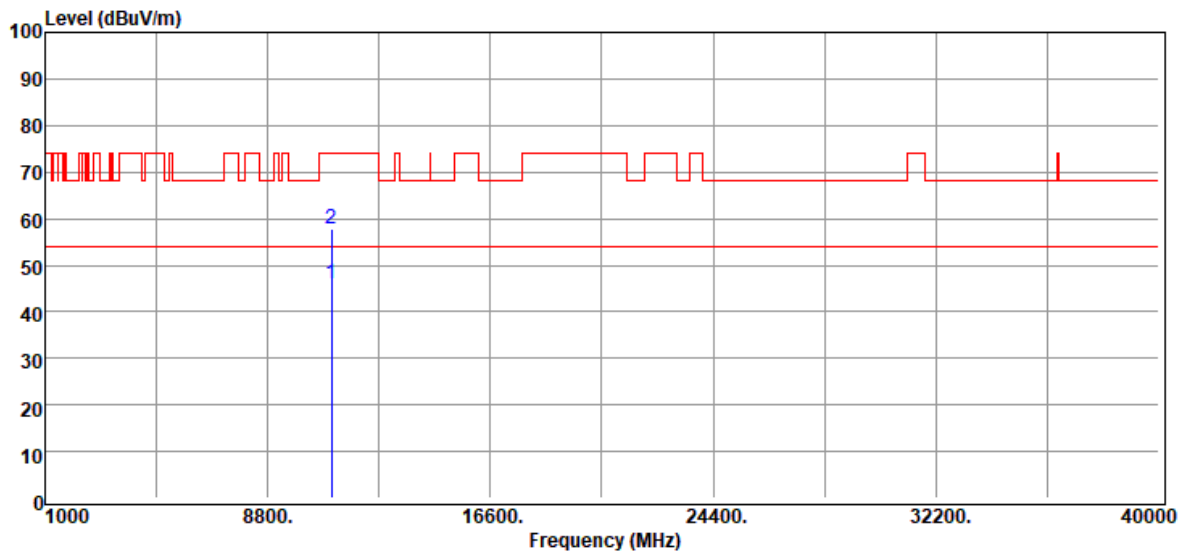
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3
 Fundamental Frequency :5510 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. : 23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Average	28.47	17.69	46.16	54.00	-7.84
11020.00	Peak	39.93	17.69	57.62	74.00	-16.38

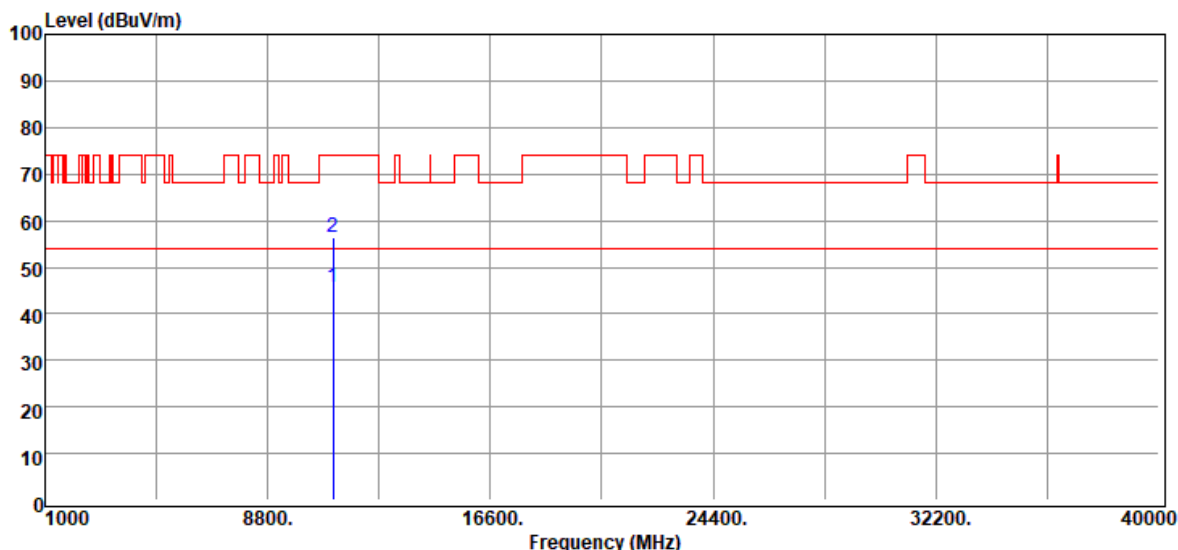
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3
 Fundamental Frequency :5550 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	28.43	17.36	45.79	54.00	-8.21
11100.00	Peak	38.89	17.36	56.25	74.00	-17.75

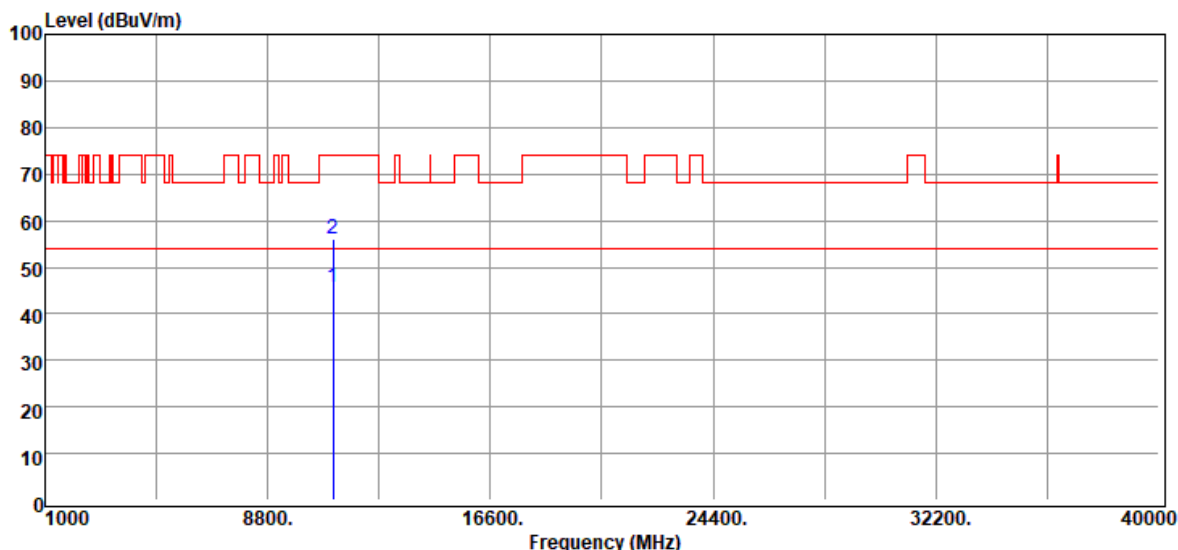
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3
 Fundamental Frequency :5550 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Average	28.23	17.36	45.59	54.00	-8.41
11100.00	Peak	38.79	17.36	56.15	74.00	-17.85

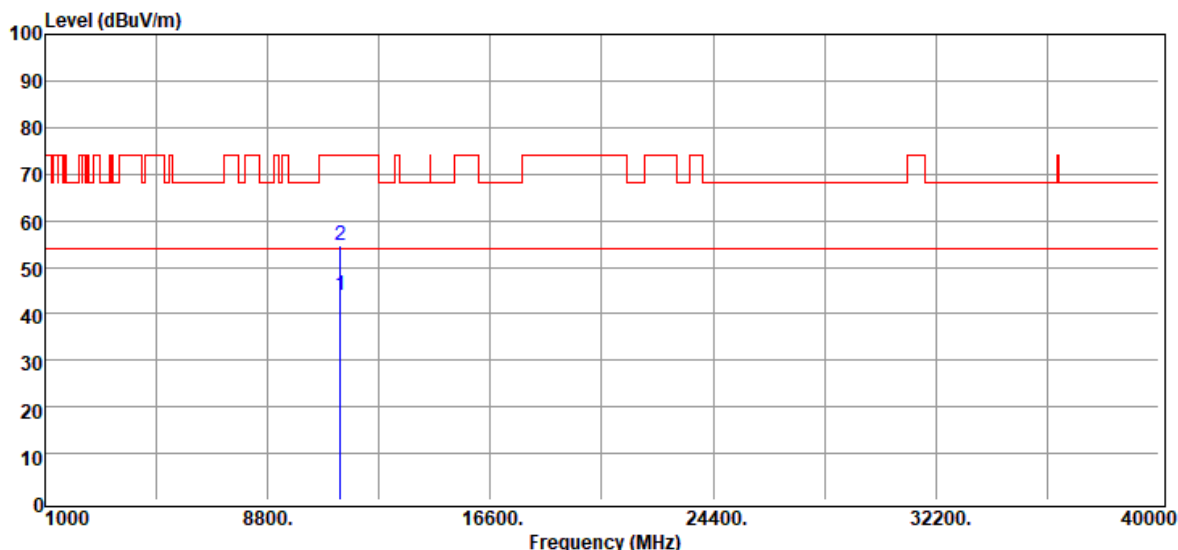
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3
 Fundamental Frequency :5670 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	27.79	16.32	44.11	54.00	-9.89
11340.00	Peak	38.52	16.32	54.84	74.00	-19.16

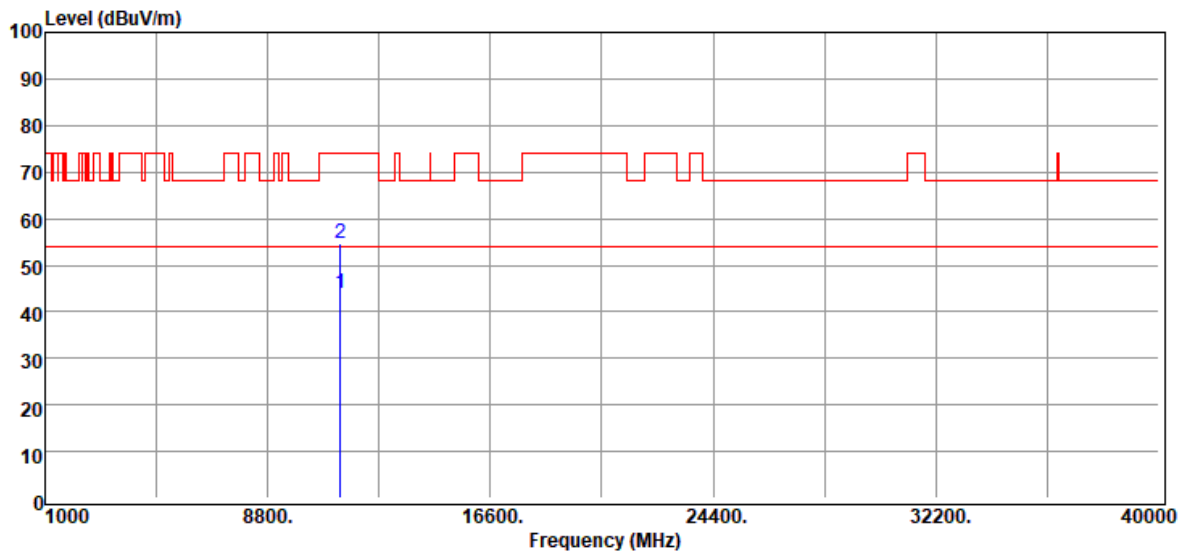
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3
 Fundamental Frequency :5670 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Average	27.68	16.32	44.00	54.00	-10.00
11340.00	Peak	38.32	16.32	54.64	74.00	-19.36

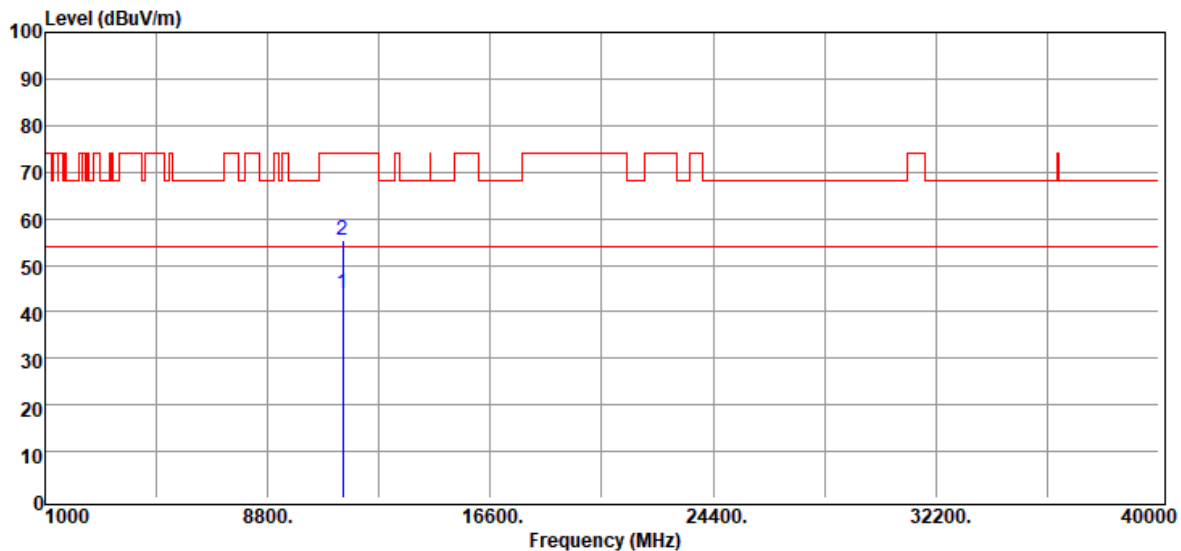
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3-4
 Fundamental Frequency :5710 MHz
 Operation Mode :TX CH 142
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	26.99	17.08	44.07	54.00	-9.93
11420.00	Peak	38.19	17.08	55.27	74.00	-18.73

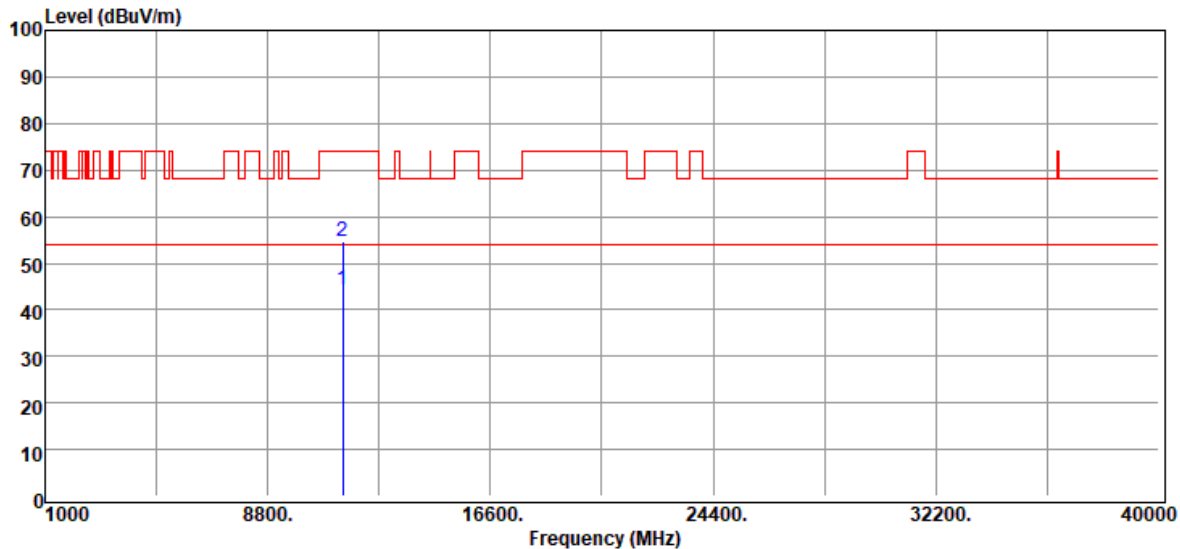
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 3-4
 Fundamental Frequency :5710 MHz
 Operation Mode :TX CH 142
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11420.00	Average	27.04	17.08	44.12	54.00	-9.88
11420.00	Peak	37.58	17.08	54.66	74.00	-19.34

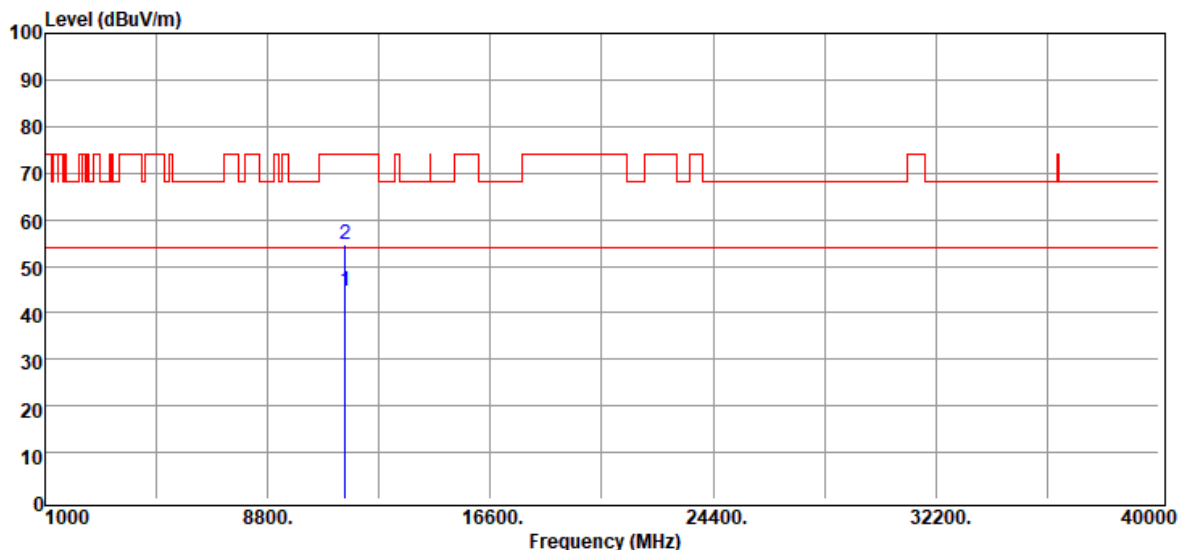
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802.11 n HT40 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11n40 / Band 4	Temp./Humi.	:23/65
Fundamental Frequency	:5755 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11510.00	Average	28.91	15.83	44.74	54.00	-9.26
11510.00	Peak	38.95	15.83	54.78	74.00	-19.22

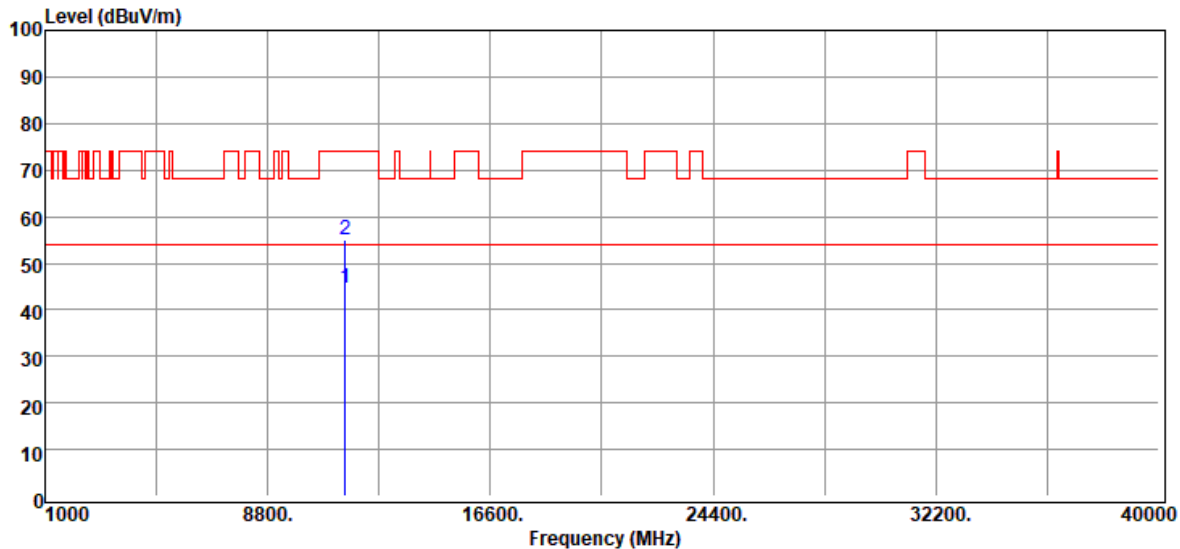
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 4
 Fundamental Frequency :5755 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Average	28.77	15.83	44.60	54.00	-9.40
11510.00	Peak	39.08	15.83	54.91	74.00	-19.09

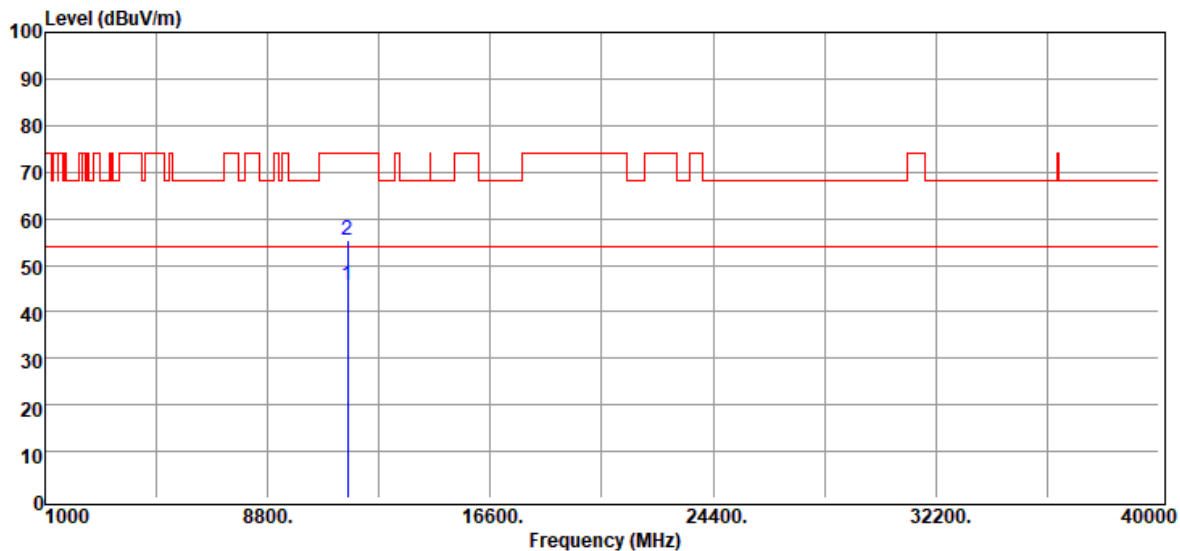
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 4
 Fundamental Frequency :5795 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.97	16.74	45.71	54.00	-8.29
11590.00	Peak	38.66	16.74	55.40	74.00	-18.60

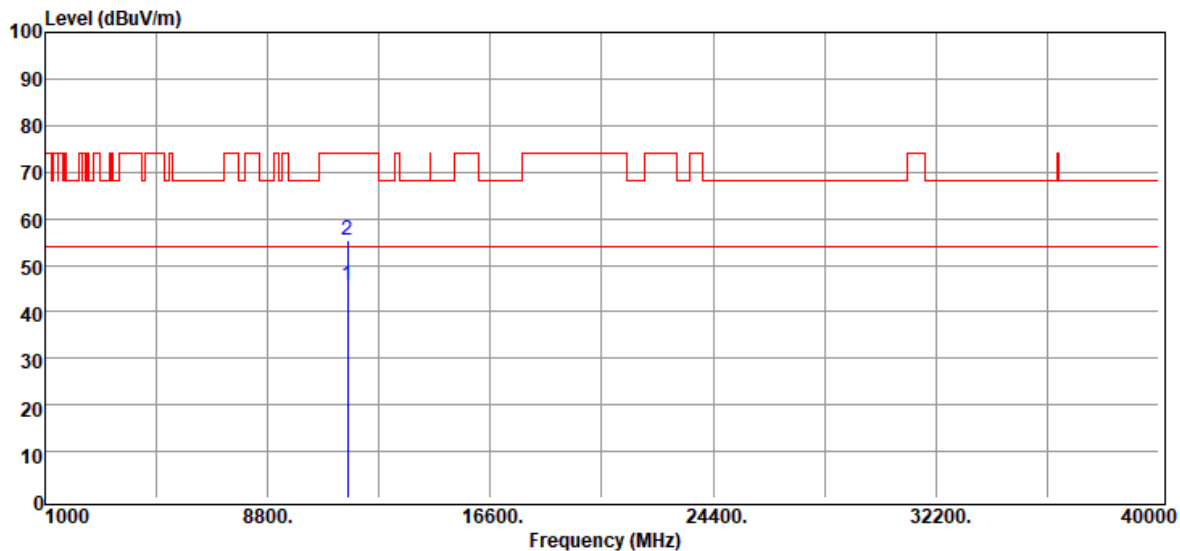
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 4
 Fundamental Frequency :5795 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/65
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Average	28.83	16.74	45.57	54.00	-8.43
11590.00	Peak	38.50	16.74	55.24	74.00	-18.76

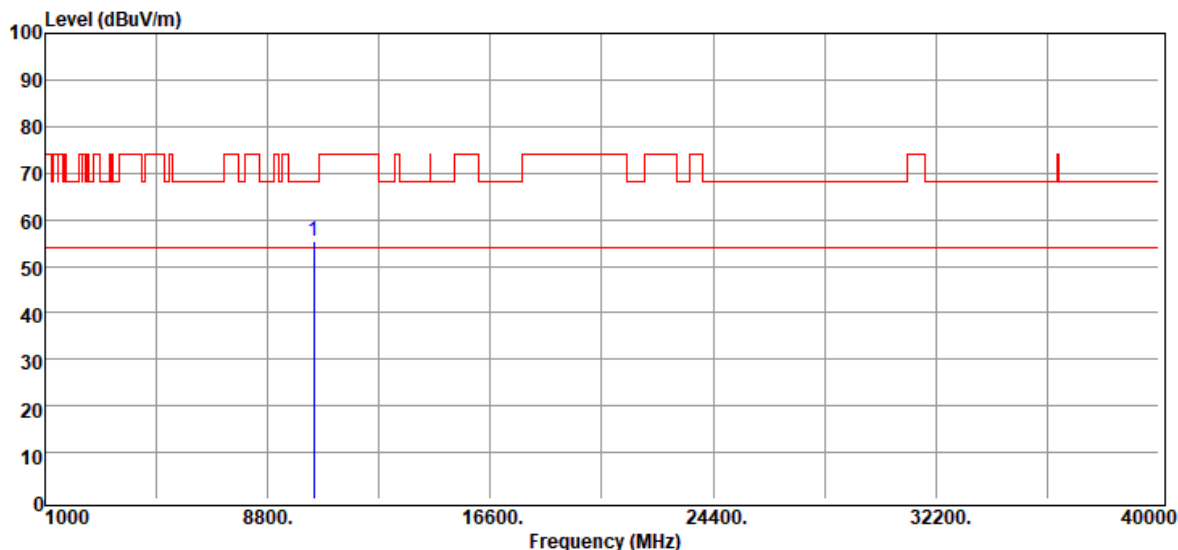
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802.11ac VHT80 發射模式 1GHz 以上測試 (5150MHz-5250MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11ac80 / Band 1	Temp./Humi.	:23/67
Fundamental Frequency	:5210 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10420.00	Peak	40.00	15.31	55.31	68.20	-12.89

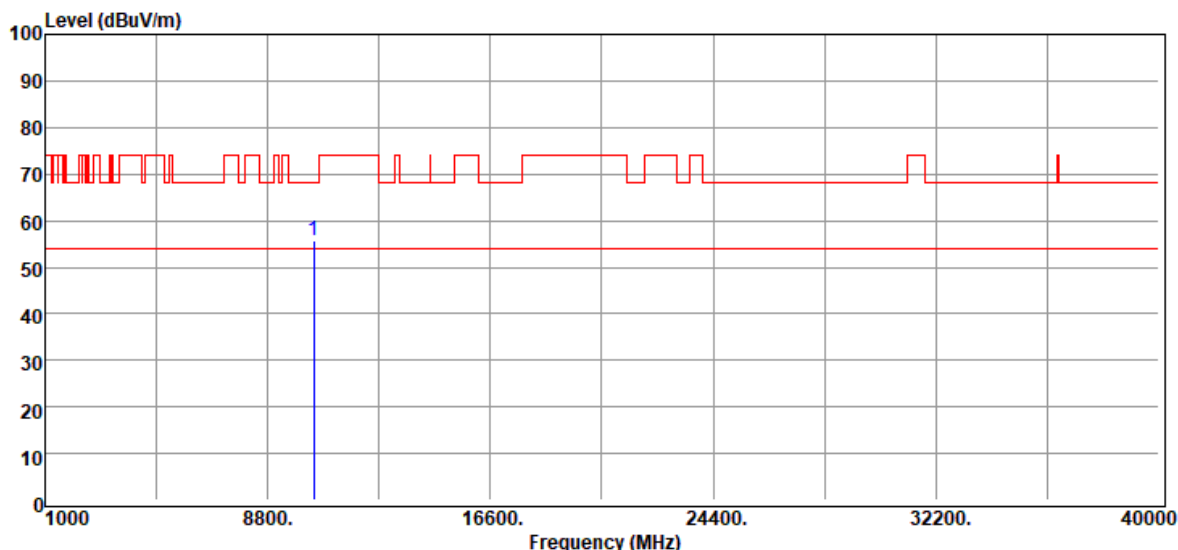
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 1
 Fundamental Frequency :5210 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10420.00	Peak	40.36	15.31	55.67	68.20	-12.53

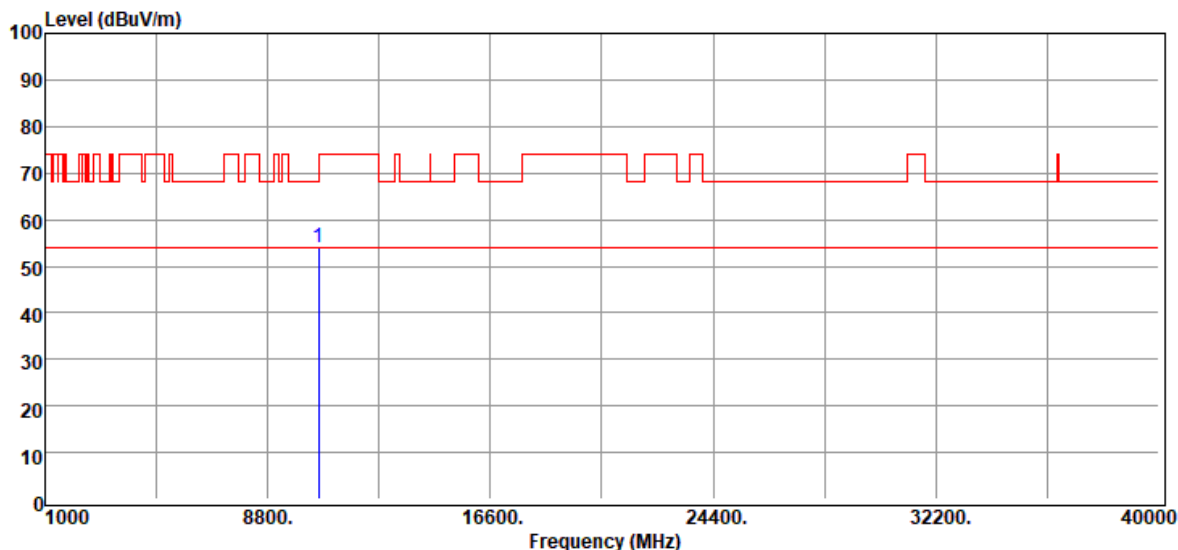
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802.11ac VHT80 發射模式 1GHz 以上測試 (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11ac80 / Band 2	Temp./Humi.	:23/67
Fundamental Frequency	:5290 MHz	Engineer	:Jerry
Operation Mode	:TX CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	Peak	38.88	15.21	54.09	68.20	-14.11

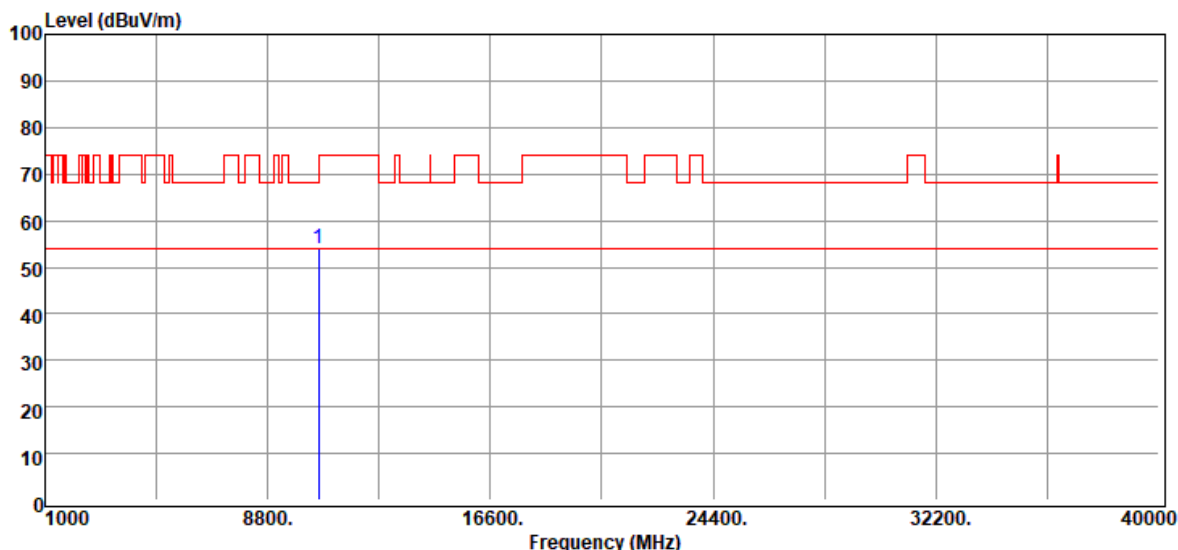
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 2
 Fundamental Frequency :5290 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	38.75	15.21	53.96	68.20	-14.24

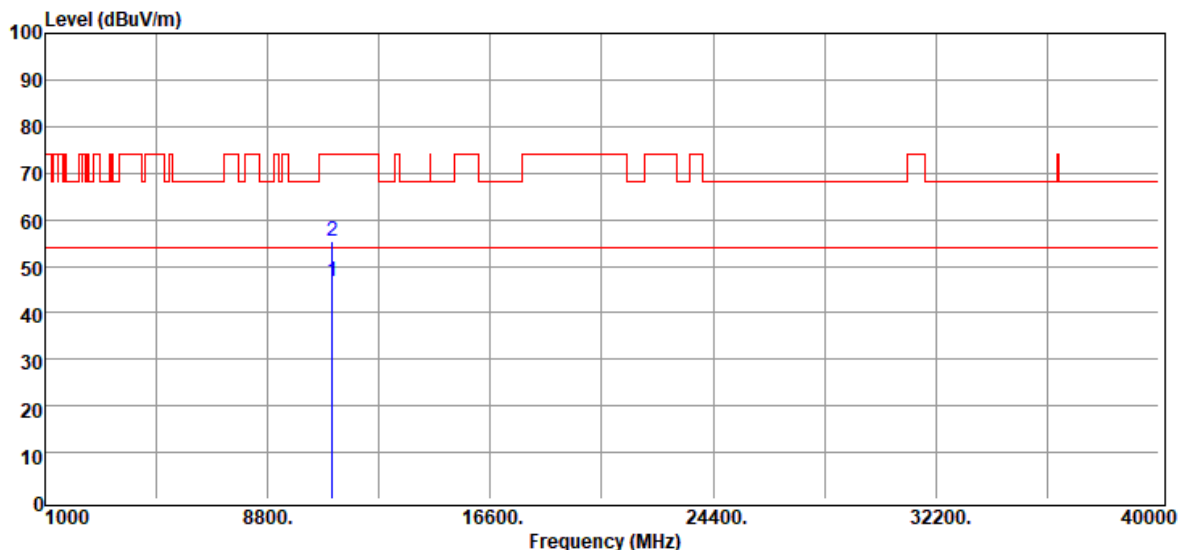
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802.11ac VHT80 發射模式 1GHz 以上測試 (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11ac80 / Band 3	Temp./Humi.	:23/67
Fundamental Frequency	:5530 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11060.00	Average	29.16	17.46	46.62	54.00	-7.38
11060.00	Peak	38.04	17.46	55.50	74.00	-18.50

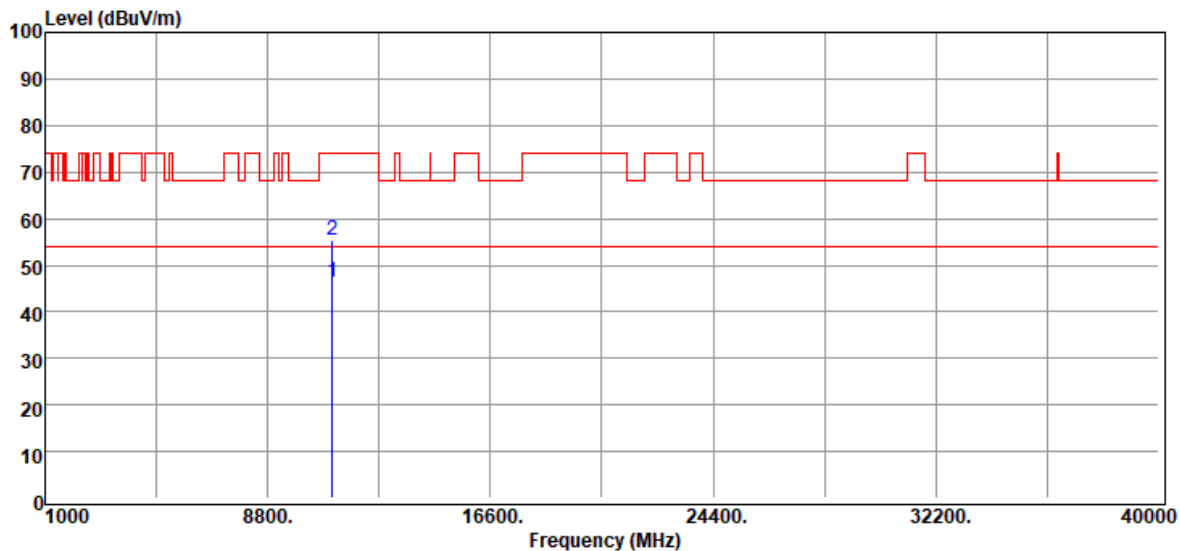
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 3
 Fundamental Frequency :5530 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Average	28.99	17.46	46.45	54.00	-7.55
11060.00	Peak	37.84	17.46	55.30	74.00	-18.70

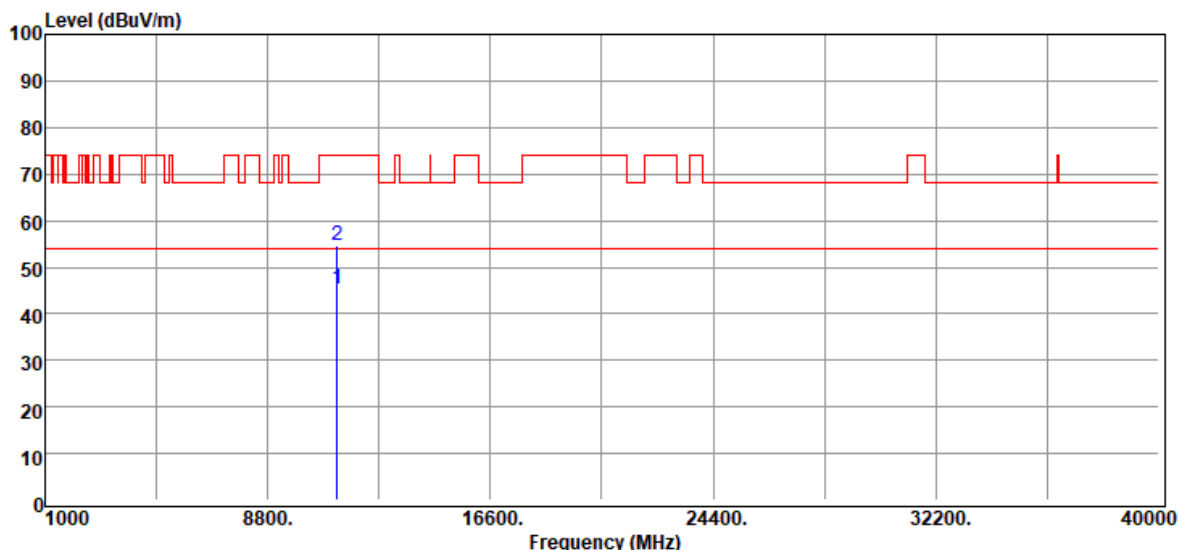
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 3
 Fundamental Frequency :5610 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	28.70	16.62	45.32	54.00	-8.68
11220.00	Peak	38.11	16.62	54.73	74.00	-19.27

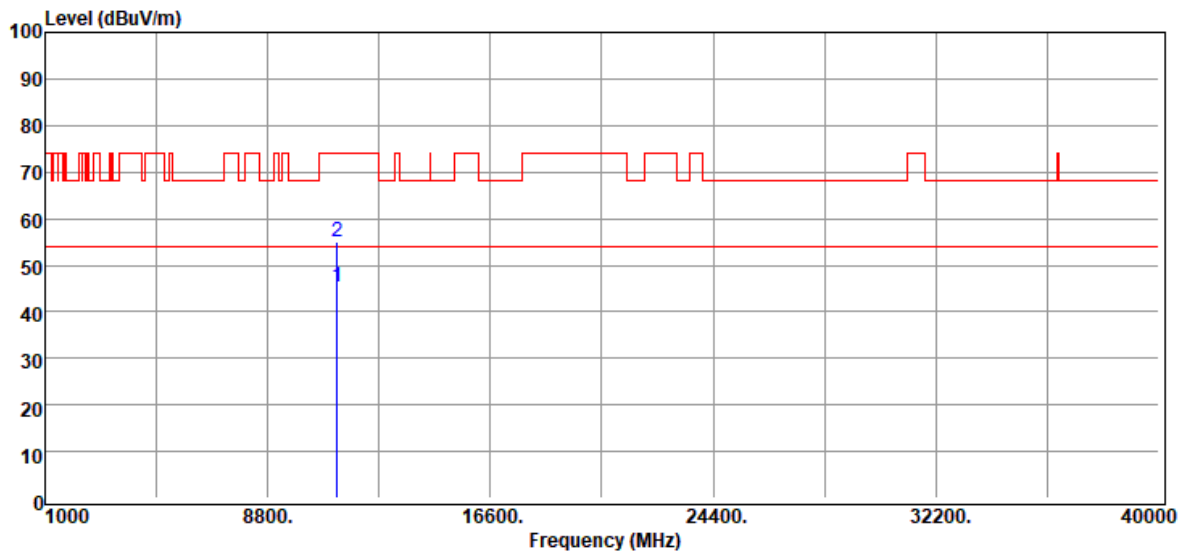
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 3
 Fundamental Frequency :5610 MHz
 Operation Mode :TX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Average	28.57	16.62	45.19	54.00	-8.81
11220.00	Peak	38.41	16.62	55.03	74.00	-18.97

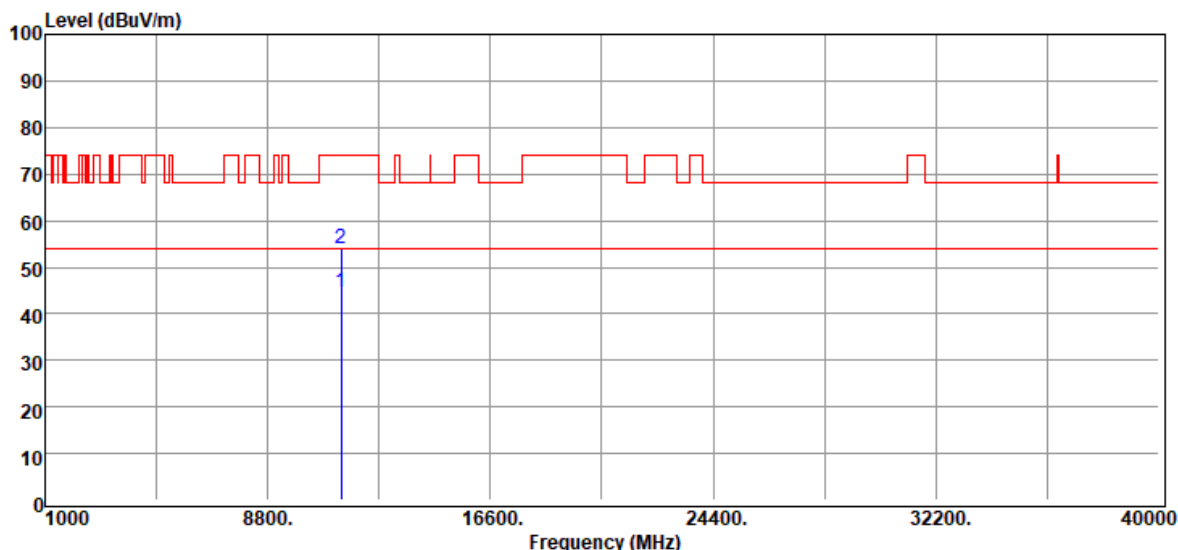
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 3
 Fundamental Frequency :5690 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11380.00	Average	27.97	16.77	44.74	54.00	-9.26
11380.00	Peak	37.38	16.77	54.15	74.00	-19.85

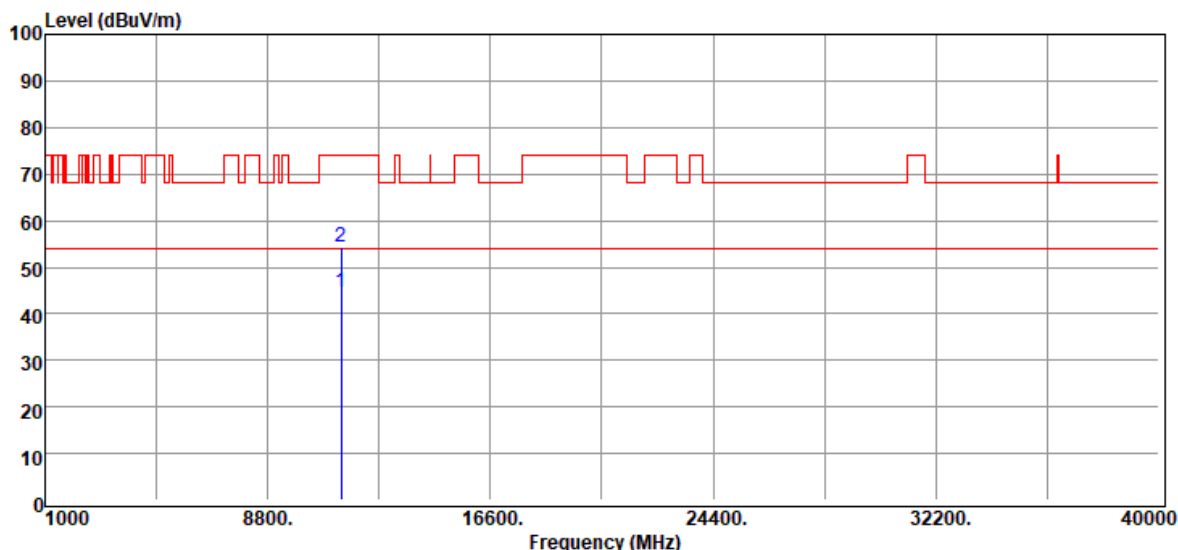
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 3
 Fundamental Frequency :5690 MHz
 Operation Mode :TX CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Average	27.87	16.77	44.64	54.00	-9.36
11380.00	Peak	37.46	16.77	54.23	74.00	-19.77

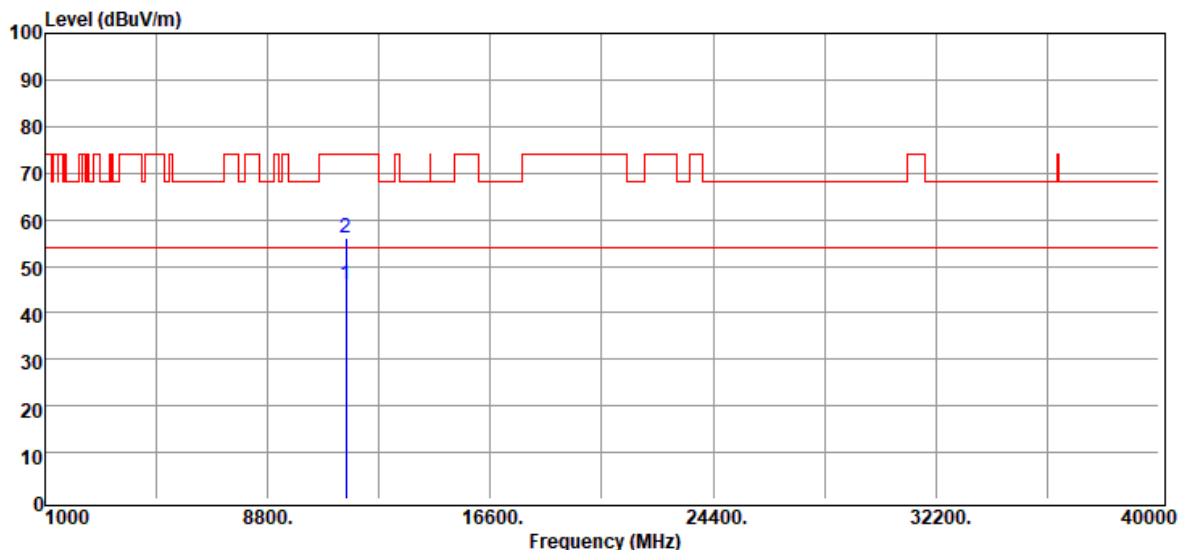
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802.11ac VHT80 發射模式 1GHz 以上測試 (5725MHz-5850MHz)

Report Number	:T190514W01	Test Date	:2019-06-13
Operation Band	:802.11ac80 / Band 4	Temp./Humi.	:23/67
Fundamental Frequency	:5775 MHz	Engineer	:Jerry
Operation Mode	:TX CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11550.00	Average	29.82	16.09	45.91	54.00	-8.09
11550.00	Peak	40.05	16.09	56.14	74.00	-17.86

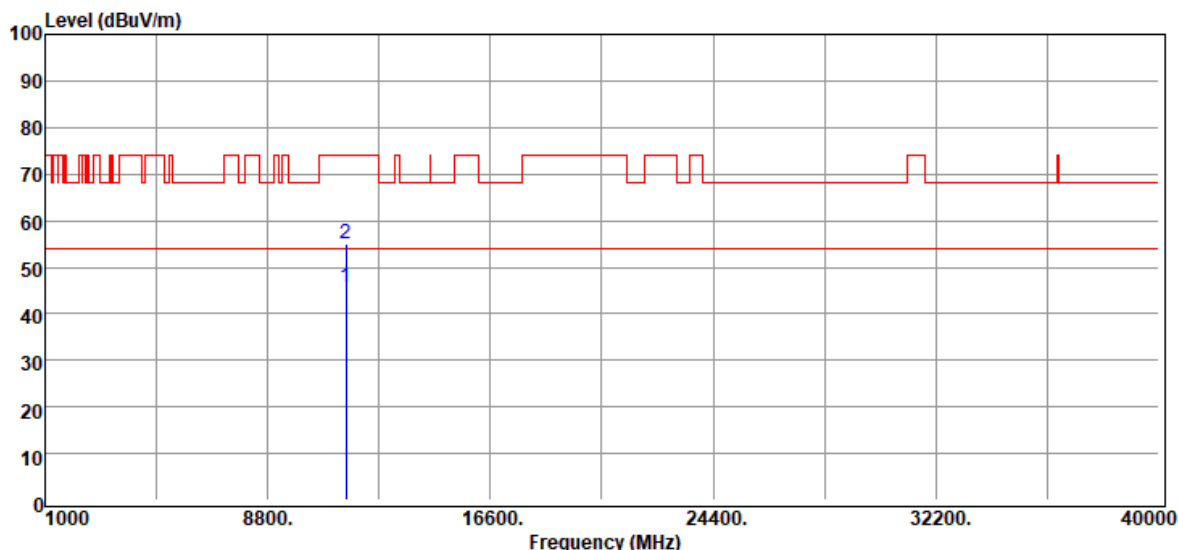
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 4
 Fundamental Frequency :5775 MHz
 Operation Mode :TX CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-13
 Temp./Humi. :23/67
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Average	29.71	16.09	45.80	54.00	-8.20
11550.00	Peak	38.87	16.09	54.96	74.00	-19.04

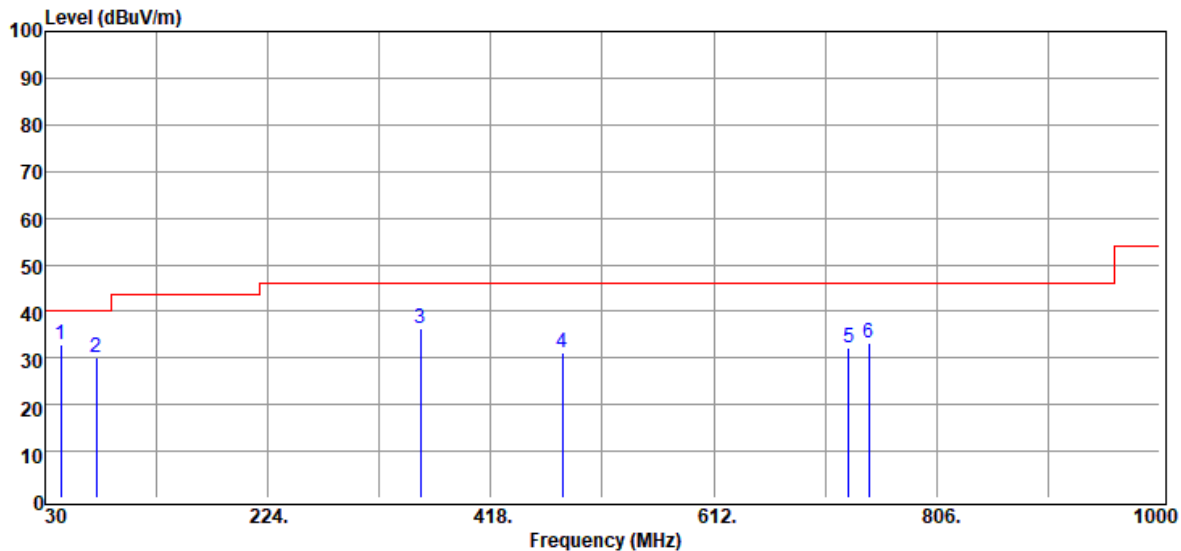
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802.11a 接收模式 1GHz 以下測試 (最差模式) (5150MHz-5250MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 1	Temp./Humi.	:23/66
Fundamental Frequency	:5220 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
43.58	Peak	44.85	-12.05	32.80	40.00	-7.20
74.62	Peak	44.97	-14.89	30.08	40.00	-9.92
356.89	Peak	43.16	-6.73	36.43	46.00	-9.57
480.08	Peak	34.09	-2.98	31.11	46.00	-14.89
729.37	Peak	31.05	1.13	32.18	46.00	-13.82
746.83	Peak	31.30	1.94	33.24	46.00	-12.76

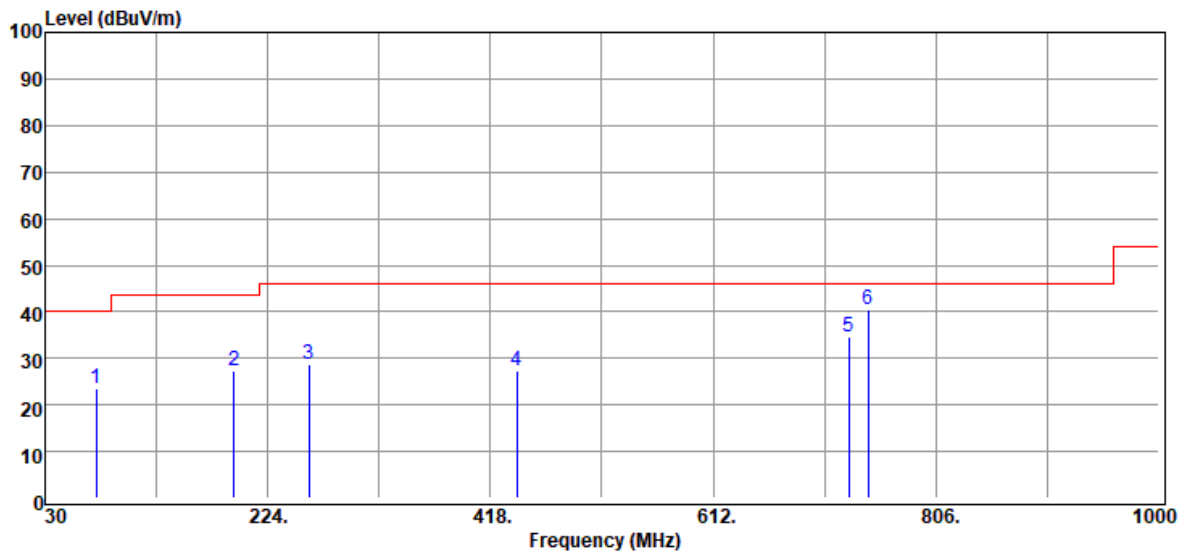
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5220 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/66
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	38.41	-14.89	23.52	40.00	-16.48
194.90	Peak	37.53	-10.06	27.47	43.50	-16.03
259.89	Peak	38.34	-9.77	28.57	46.00	-17.43
441.28	Peak	31.22	-4.04	27.18	46.00	-18.82
730.34	Peak	33.53	1.18	34.71	46.00	-11.29
746.83	Peak	38.47	1.94	40.41	46.00	-5.59

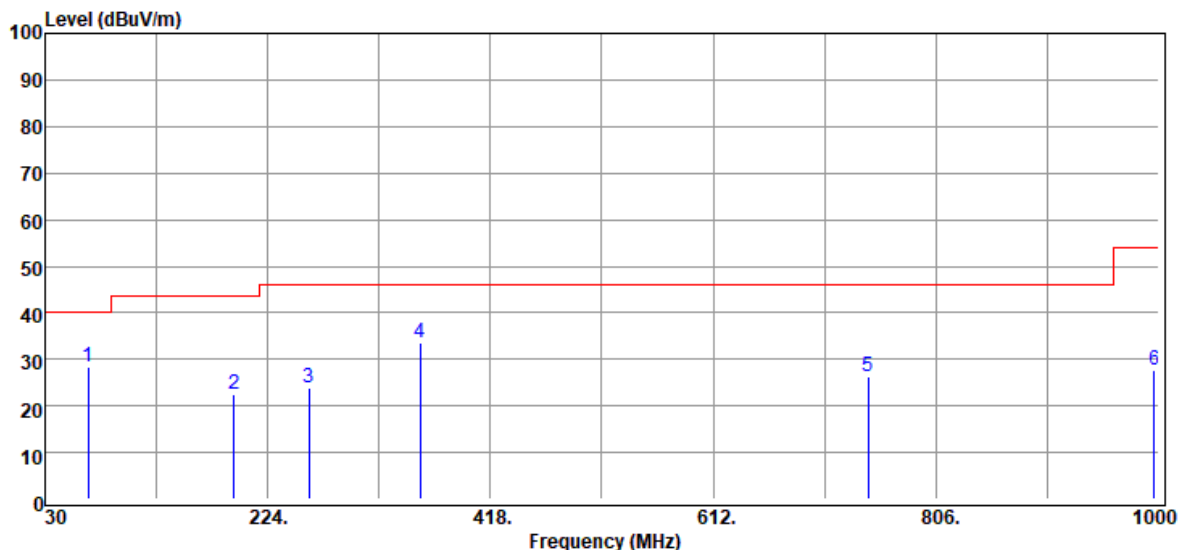
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802.11a 接收機場強輻射之量測結果(1GHz 以下) (最差模式) (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 2	Temp./Humi.	:23/66
Fundamental Frequency	:5300 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
67.83	Peak	43.22	-14.85	28.37	40.00	-11.63
194.90	Peak	32.60	-10.06	22.54	43.50	-20.96
259.89	Peak	33.78	-9.77	24.01	46.00	-21.99
356.89	Peak	40.26	-6.73	33.53	46.00	-12.47
746.83	Peak	24.50	1.94	26.44	46.00	-19.56
996.12	Peak	22.59	5.21	27.80	54.00	-26.20

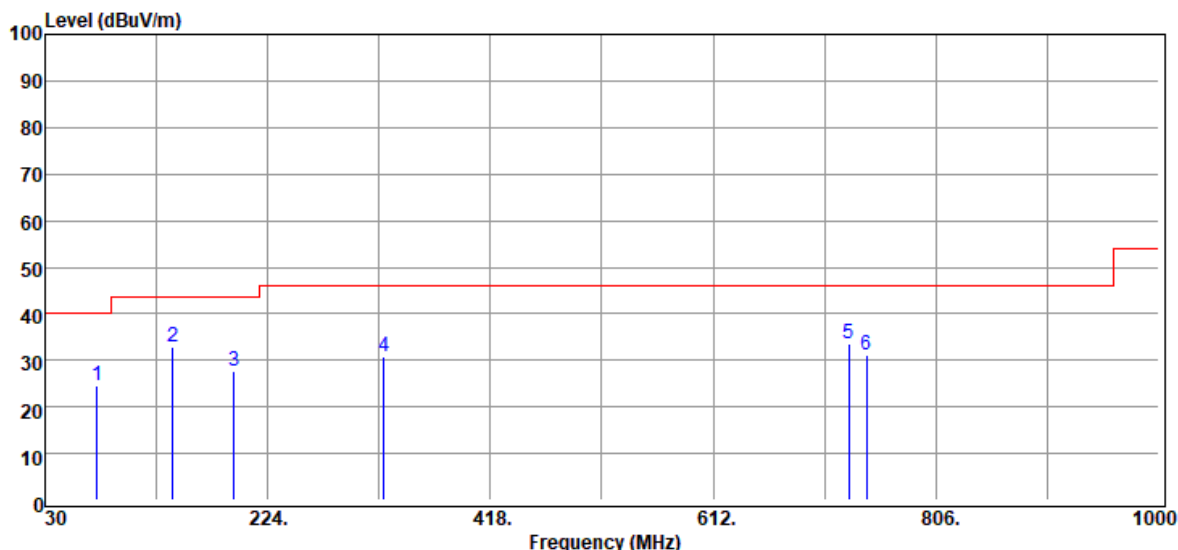
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Report Number :T190514W01
Operation Band :802.11a / Band 2
Fundamental Frequency :5300 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/66
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.59	Peak	39.35	-14.79	24.56	40.00	-15.44
141.55	Peak	42.73	-9.93	32.80	43.50	-10.70
194.90	Peak	37.66	-10.06	27.60	43.50	-15.90
324.88	Peak	38.10	-7.33	30.77	46.00	-15.23
730.34	Peak	32.43	1.18	33.61	46.00	-12.39
745.86	Peak	29.09	1.96	31.05	46.00	-14.95

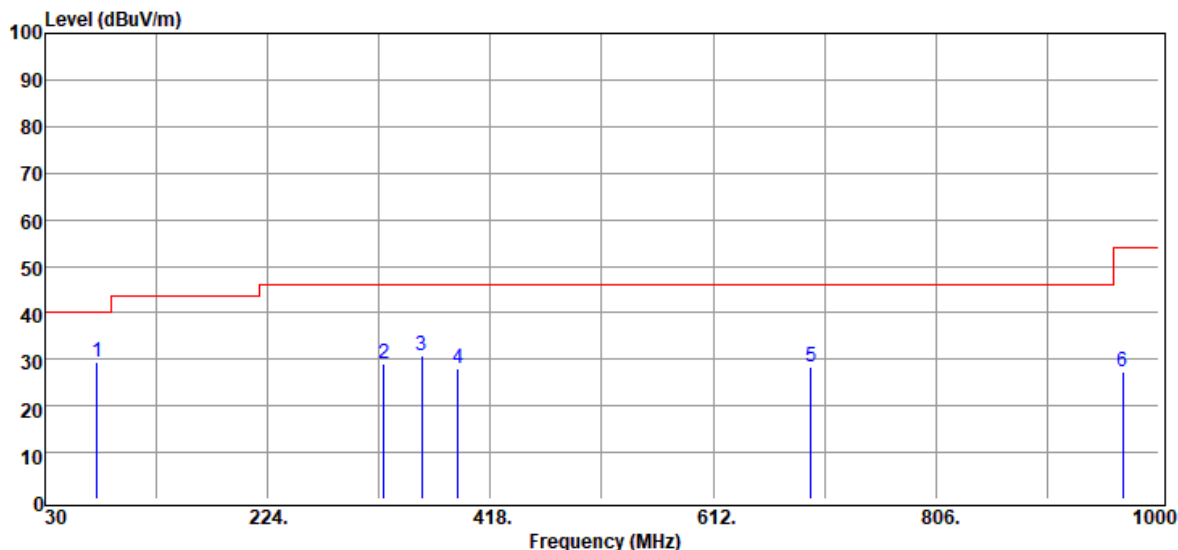
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802.11a 接收機場強輻射之量測結果(1GHz 以下) (最差模式) (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 3	Temp./Humi.	:23/66
Fundamental Frequency	:5580 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
75.59	Peak	44.14	-14.79	29.35	40.00	-10.65
324.88	Peak	36.27	-7.33	28.94	46.00	-17.06
357.86	Peak	37.37	-6.68	30.69	46.00	-15.31
389.87	Peak	33.97	-6.01	27.96	46.00	-18.04
697.36	Peak	28.39	-0.13	28.26	46.00	-17.74
968.96	Peak	22.04	5.23	27.27	54.00	-26.73

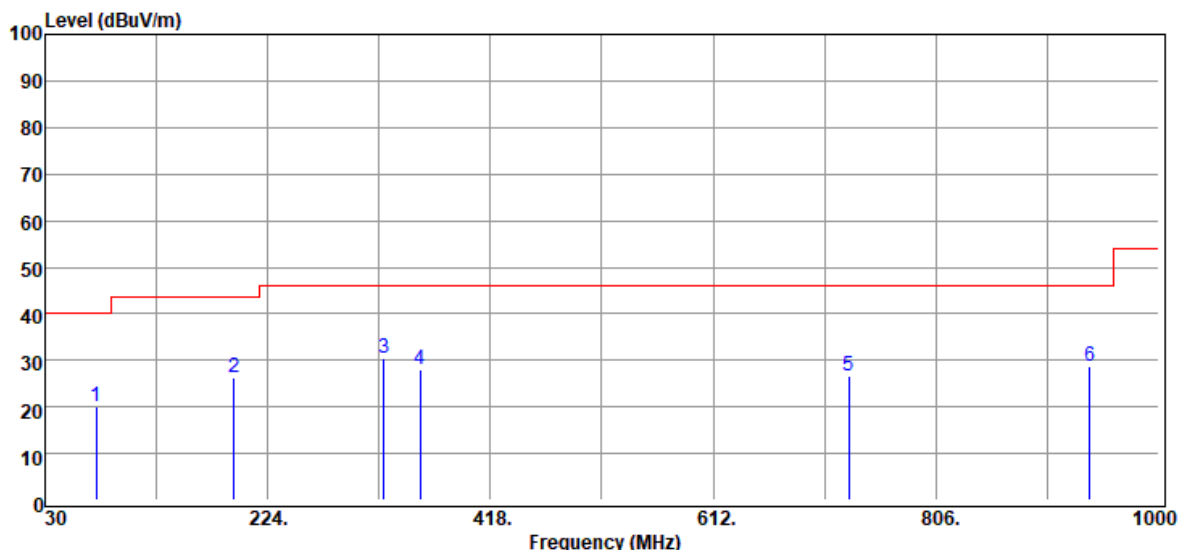
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Report Number :T190514W01
Operation Band :802.11a / Band 3
Fundamental Frequency :5580 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/66
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	35.07	-14.89	20.18	40.00	-19.82
194.90	Peak	36.34	-10.06	26.28	43.50	-17.22
324.88	Peak	37.90	-7.33	30.57	46.00	-15.43
356.89	Peak	34.78	-6.73	28.05	46.00	-17.95
730.34	Peak	25.58	1.18	26.76	46.00	-19.24
939.86	Peak	25.07	3.73	28.80	46.00	-17.20

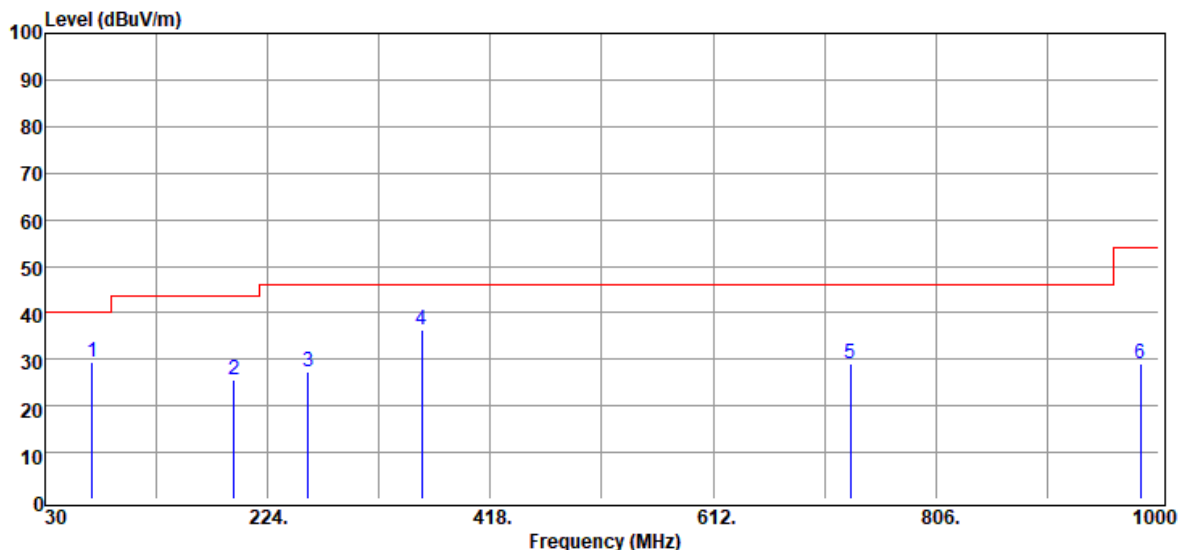
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802.11a 接收機場強輻射之量測結果(1GHz 以下) (最差模式) (5725MHz-5850MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 4	Temp./Humi.	:23/66
Fundamental Frequency	:5785 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
70.74	Peak	44.24	-14.79	29.45	40.00	-10.55
194.90	Peak	35.74	-10.06	25.68	43.50	-17.82
258.92	Peak	37.12	-9.88	27.24	46.00	-18.76
357.86	Peak	42.95	-6.68	36.27	46.00	-9.73
731.31	Peak	27.98	1.16	29.14	46.00	-16.86
984.48	Peak	23.61	5.37	28.98	54.00	-25.02

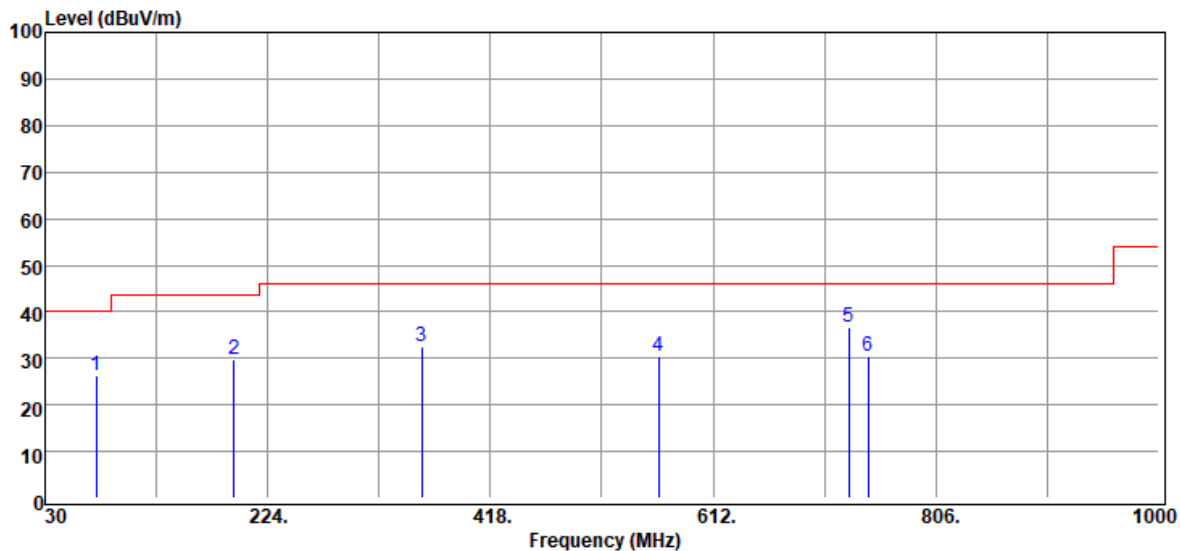
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Report Number :T190514W01
Operation Band :802.11a / Band 4
Fundamental Frequency :5785 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :23/66
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
74.62	Peak	41.06	-14.89	26.17	40.00	-13.83
194.90	Peak	39.91	-10.06	29.85	43.50	-13.65
357.86	Peak	39.22	-6.68	32.54	46.00	-13.46
564.47	Peak	32.61	-2.20	30.41	46.00	-15.59
730.34	Peak	35.48	1.18	36.66	46.00	-9.34
746.83	Peak	28.57	1.94	30.51	46.00	-15.49

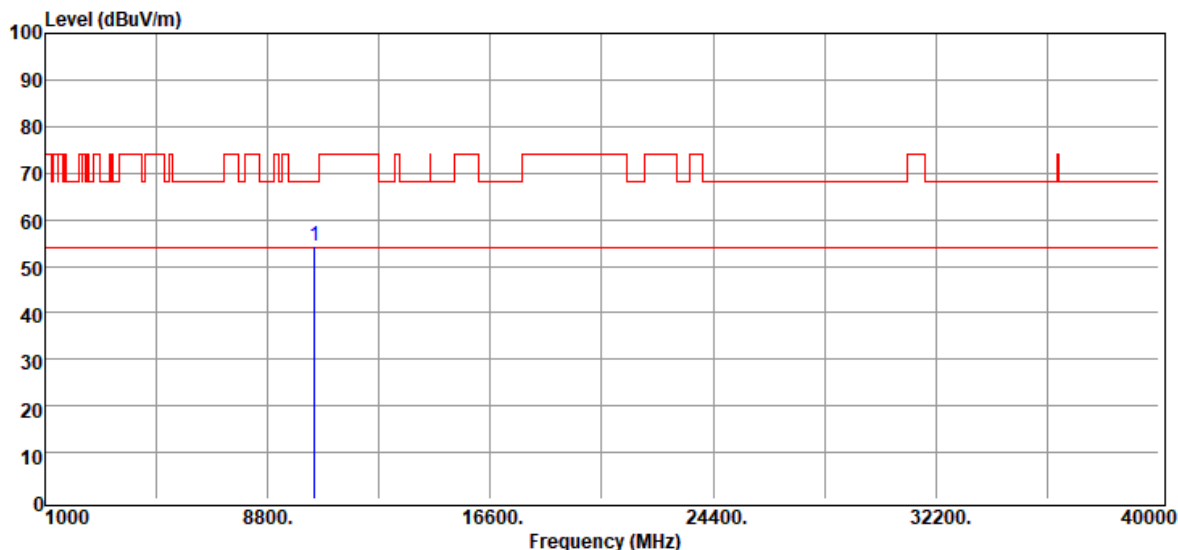
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802.11a 接收模式 1GHz 以上測試 (最差模式) (5150MHz-5250MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 1	Temp./Humi.	:24/69
Fundamental Frequency	:5220 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	Peak	38.79	15.66	54.45	68.20	-13.75

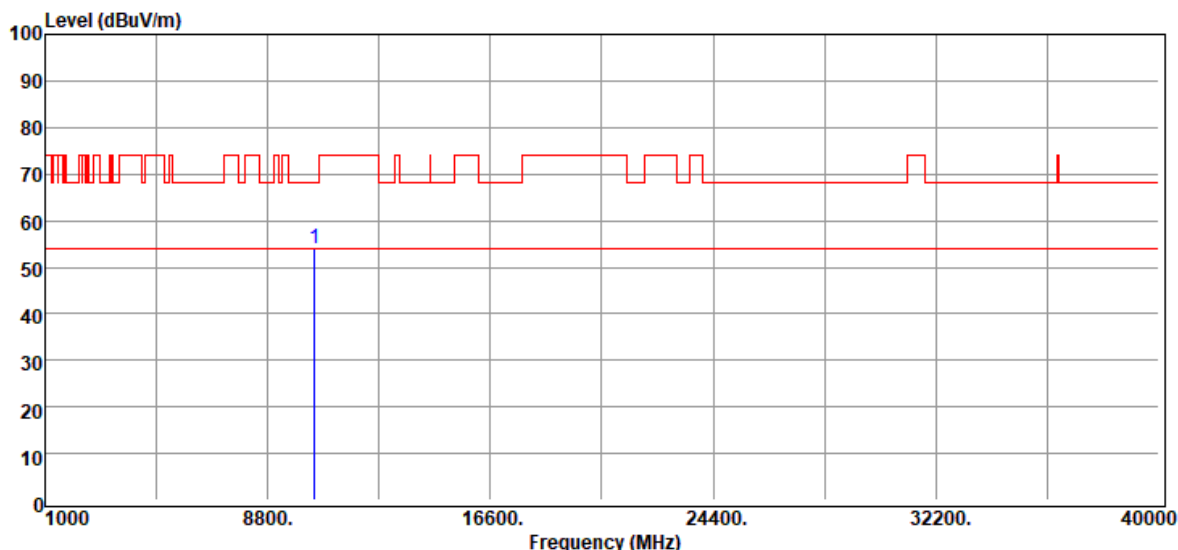
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5220 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10440.00	Peak	38.44	15.66	54.10	68.20	-14.10

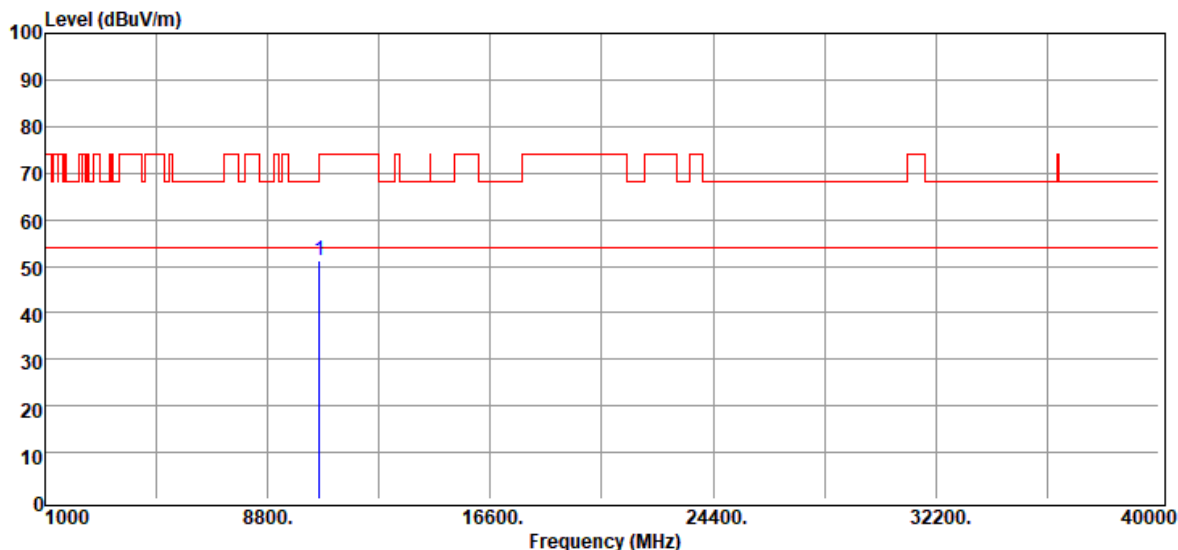
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802.11a 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5250MHz- 5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 2	Temp./Humi.	:24/69
Fundamental Frequency	:5300 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	Peak	35.78	15.27	51.05	74.00	-22.95

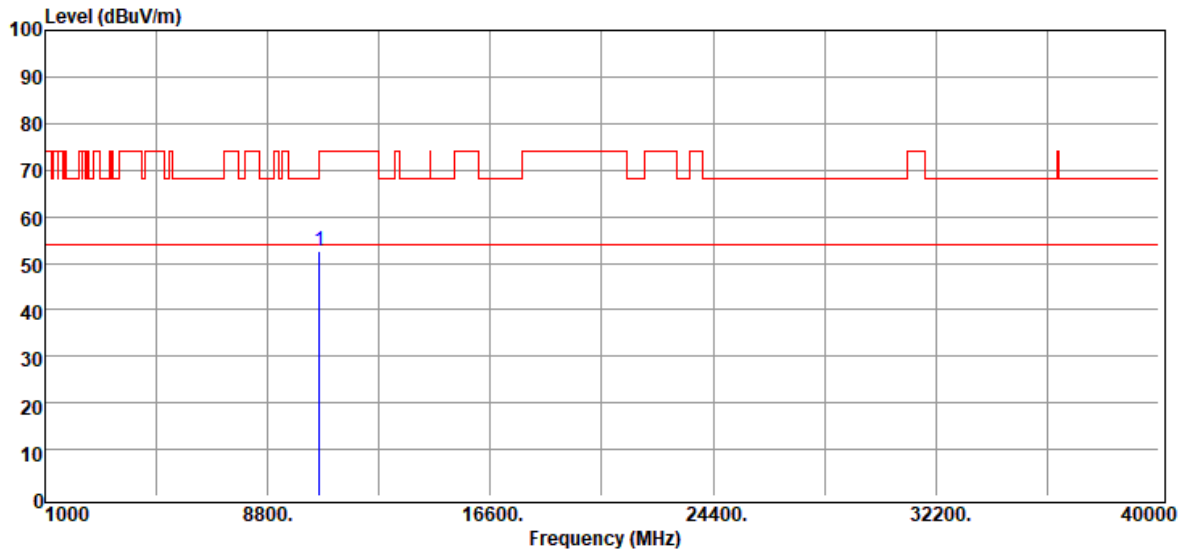
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Report Number :T190514W01
Operation Band :802.11a / Band 2
Fundamental Frequency :5300 MHz
Operation Mode :RX CH MID
EUT Pol. :H Plan

Test Date :2019-06-28
Temp./Humi. :24/69
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	37.16	15.27	52.43	74.00	-21.57

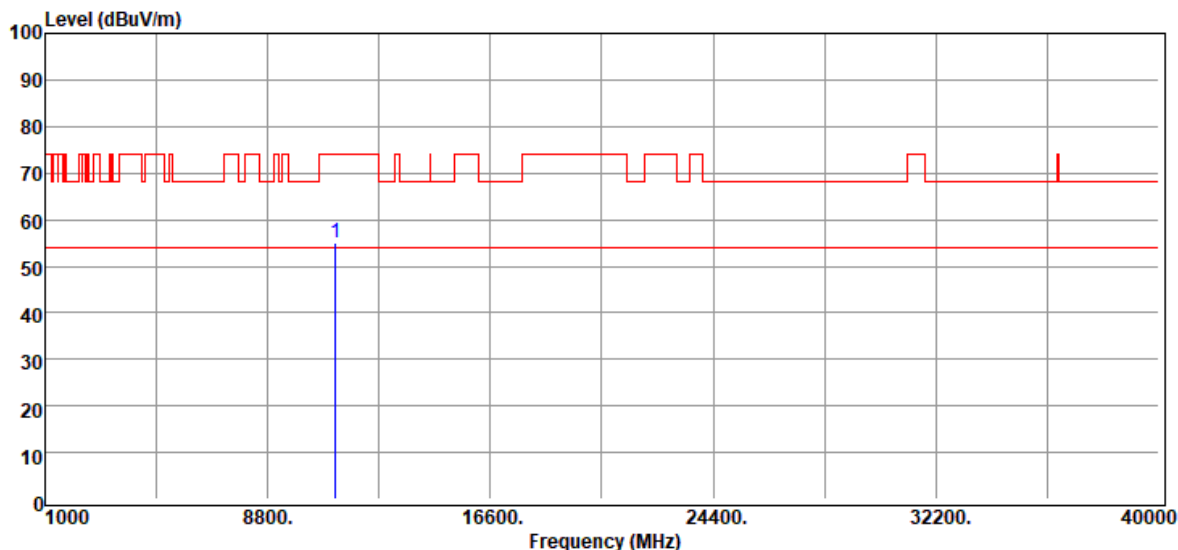
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802.11a 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 3	Temp./Humi.	:24/69
Fundamental Frequency	:5580 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	Peak	38.06	16.85	54.91	74.00	-19.09

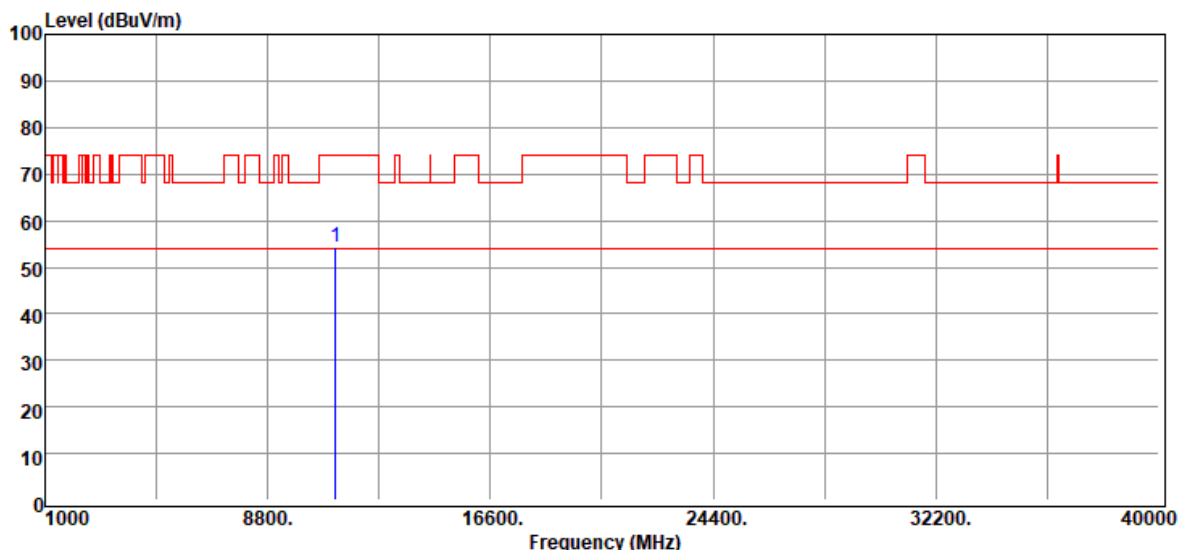
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Report Number :T190514W01
 Operation Band :802.11a / Band 3
 Fundamental Frequency :5580 MHz
 Operation Mode :RX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :24/69
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11160.00	Peak	37.62	16.85	54.47	74.00	-19.53

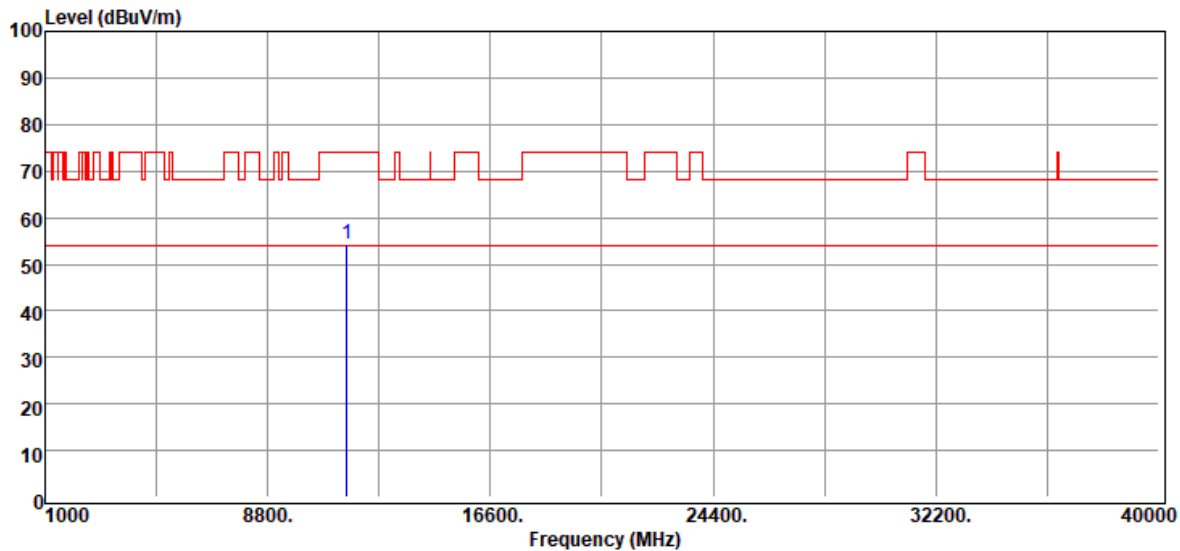
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802.11a 接收機場強輻射之量測結果(1GHz 以上) (最差模式) (5725MHz-5850MHz)

Report Number	:T190514W01	Test Date	:2019-06-28
Operation Band	:802.11a / Band 4	Temp./Humi.	:24/69
Fundamental Frequency	:5785 MHz	Engineer	:Jerry
Operation Mode	:RX CH MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	Peak	37.98	16.41	54.39	74.00	-19.61

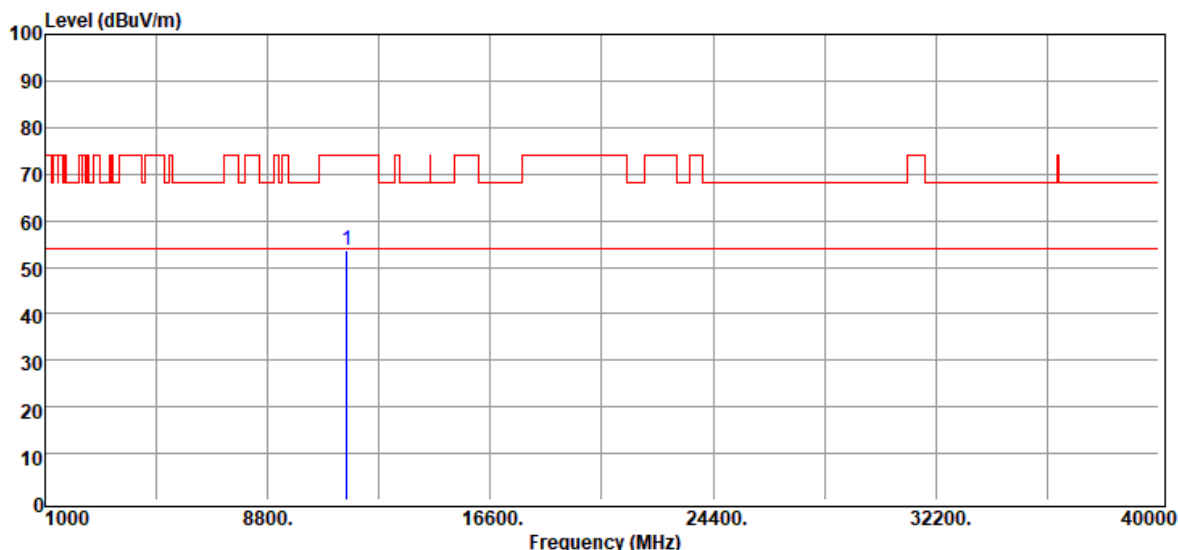
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5785 MHz
 Operation Mode :RX CH MID
 EUT Pol. :H Plan

Test Date :2019-06-28
 Temp./Humi. :24/69
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	Peak	37.28	16.41	53.69	74.00	-20.31

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(Fully System)

Report Number :T190514W01

Test Date :2019-07-04

Operation Band :System

Temp./Humi. :28/49

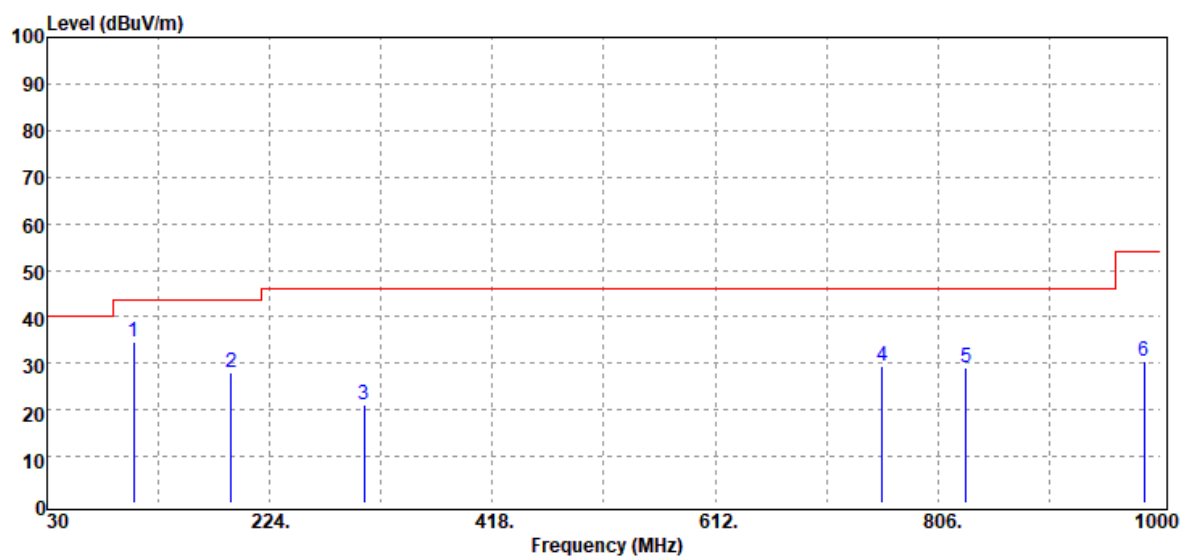
Frequency :System

Antenna Pol. :VERTICAL

Operation Mode :System

Engineer :Jerry

EUT Pol. :H Plan



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
105.66	Peak	45.75	-11.02	34.73	43.50	-8.77
190.05	Peak	38.64	-10.77	27.87	43.50	-15.63
306.45	Peak	29.25	-8.08	21.17	46.00	-24.83
757.50	Peak	27.30	2.04	29.34	46.00	-16.66
830.25	Peak	25.88	3.28	29.16	46.00	-16.84
985.45	Peak	25.15	5.38	30.53	54.00	-23.47

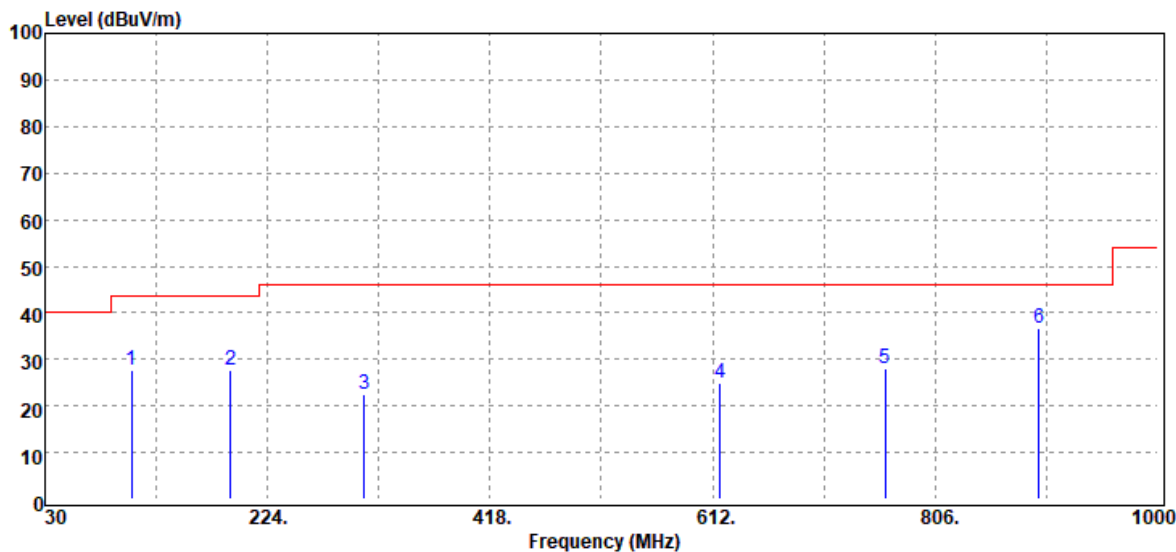
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Report Number :T190514W01
 Operation Band :System
 Frequency :System
 Operation Mode :System
 EUT Pol. :H Plan

Test Date :2019-07-04
 Temp./Humi. :28/49
 Antenna Pol. :HORIZONTAL
 Engineer :Jerry



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
105.66	Peak	38.84	-11.02	27.82	43.50	-15.68
191.99	Peak	38.38	-10.55	27.83	43.50	-15.67
308.39	Peak	30.59	-7.97	22.62	46.00	-23.38
618.79	Peak	25.70	-0.78	24.92	46.00	-21.08
762.35	Peak	26.42	1.75	28.17	46.00	-17.83
896.21	Peak	32.49	4.05	36.54	46.00	-9.46

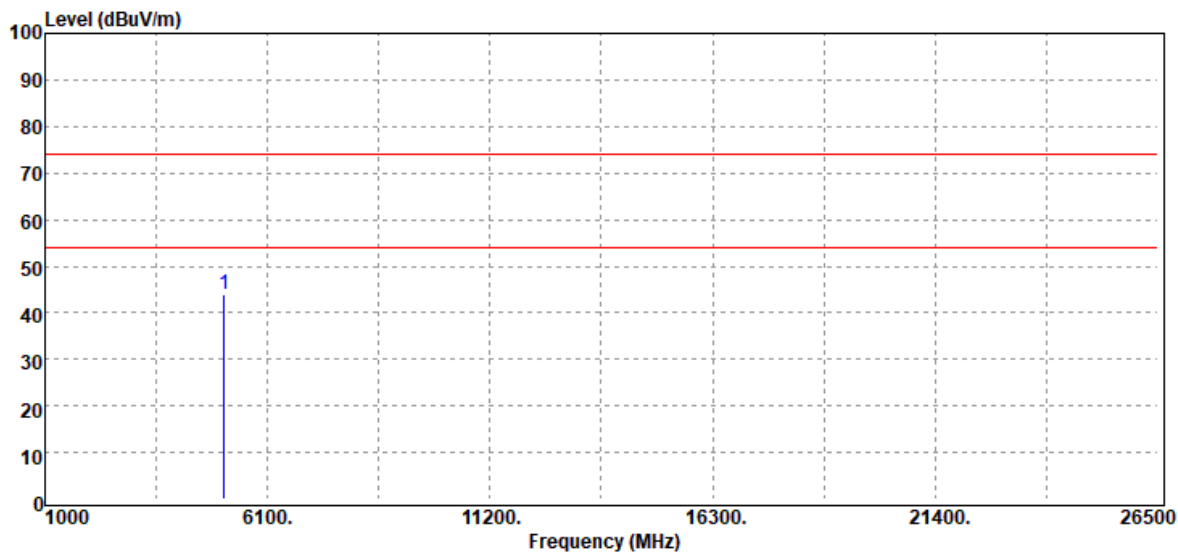
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Report Number :T190514W01
 Operation Band :System
 Frequency :System
 Operation Mode :System
 EUT Pol. :H Plan

Test Date :2019-07-04
 Temp./Humi. :25/46
 Antenna Pol. :VERTICAL
 Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5103.80	Peak	39.14	4.83	43.97	74.00	-30.03

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Report Number :T190514W01

Operation Band :System

Frequency :System

Operation Mode :System

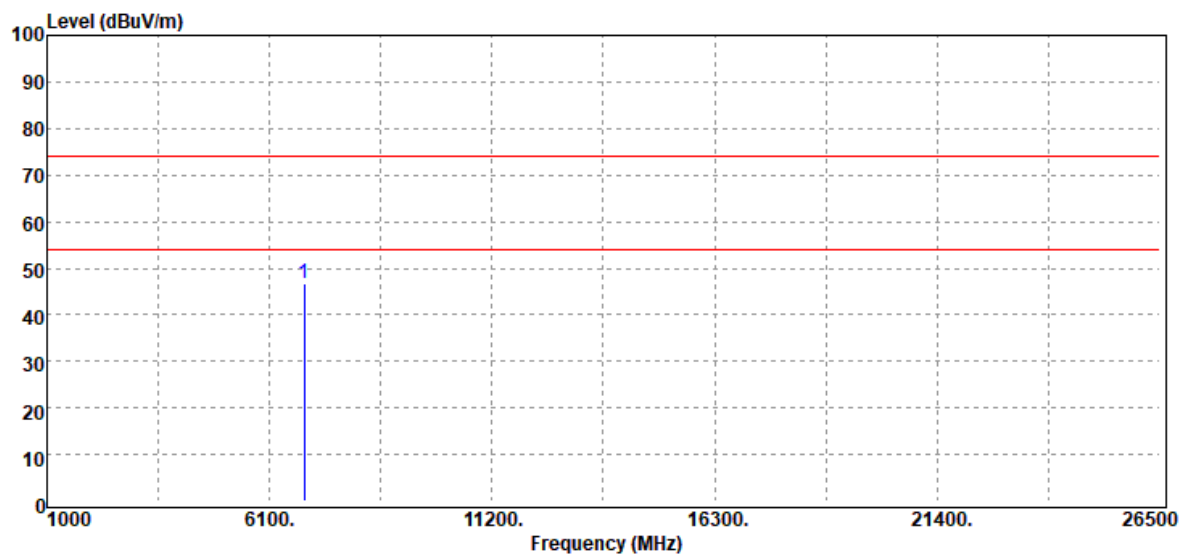
EUT Pol. :H Plan

Test Date :2019-07-04

Temp./Humi. :25/46

Antenna Pol. :HORIZONTAL

Engineer :Jerry



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
6893.00	Peak	36.91	9.95	46.86	74.00	-27.14

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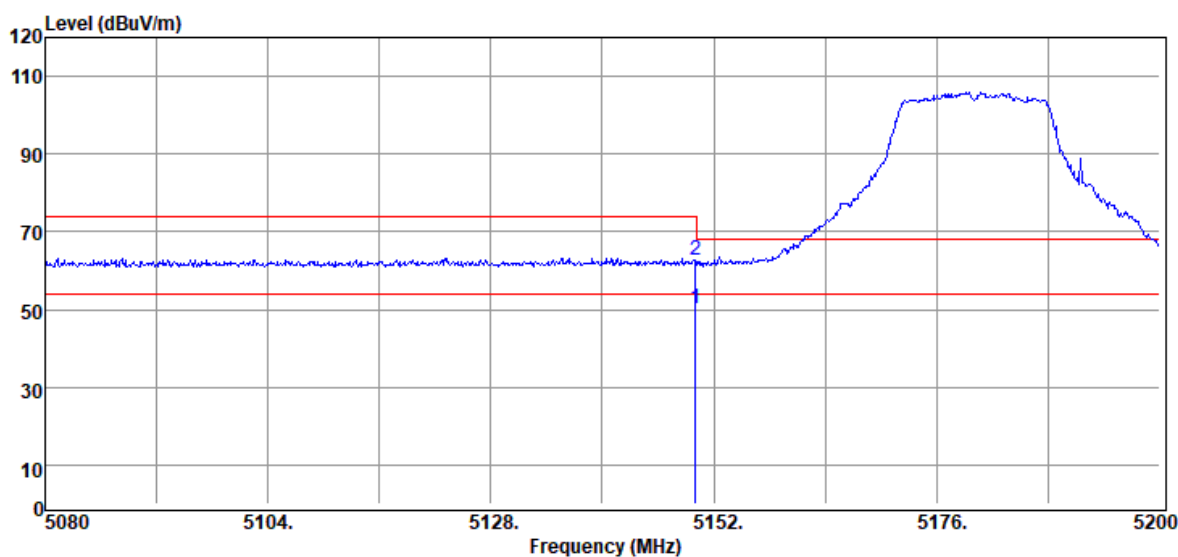
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6.6 開放頻帶邊緣量測結果

頻帶外發射輻射量測值 (802.11a) (5150MHz-5250MHz)

Report Number : T190514W01
 Operation Band : 802.11a / Band 1
 Fundamental Frequency : 5180 MHz
 Operation Mode : BE CH LOW
 EUT Pol. : H Plan

Test Date : 2019-06-12
 Temp./Humi. : 26/59
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	45.30	4.92	50.22	54.00	-3.78
5150.00	Peak	57.74	4.92	62.66	74.00	-11.34

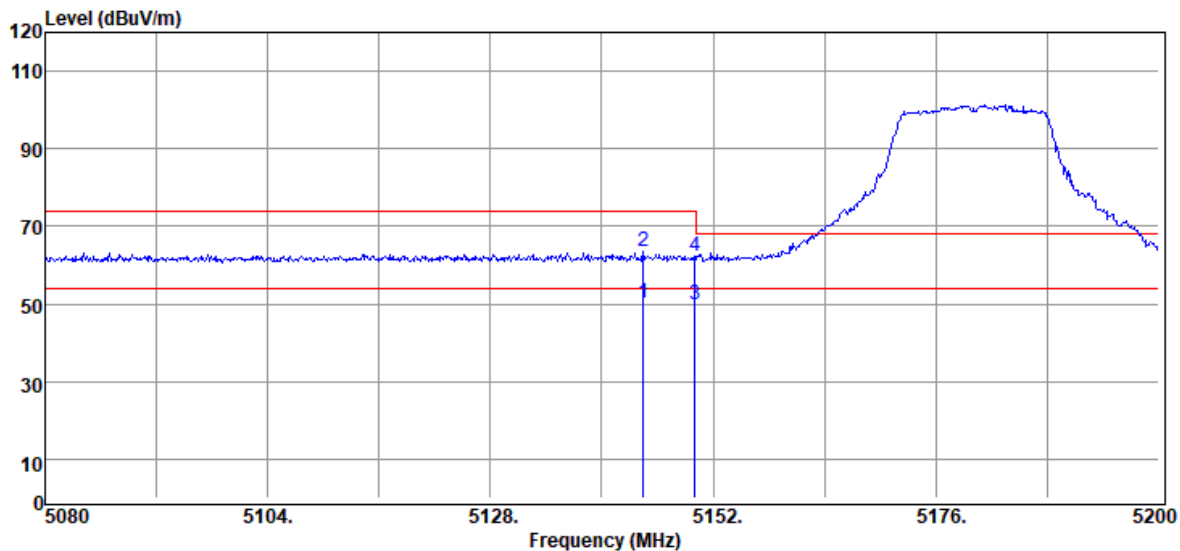
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Report Number :T190514W01
Operation Band :802.11a / Band 1
Fundamental Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :26/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.44	Average	45.13	4.92	50.05	54.00	-3.95
5144.44	Peak	58.65	4.92	63.57	74.00	-10.43
5150.00	Average	45.08	4.92	50.00	54.00	-4.00
5150.00	Peak	57.47	4.92	62.39	74.00	-11.61

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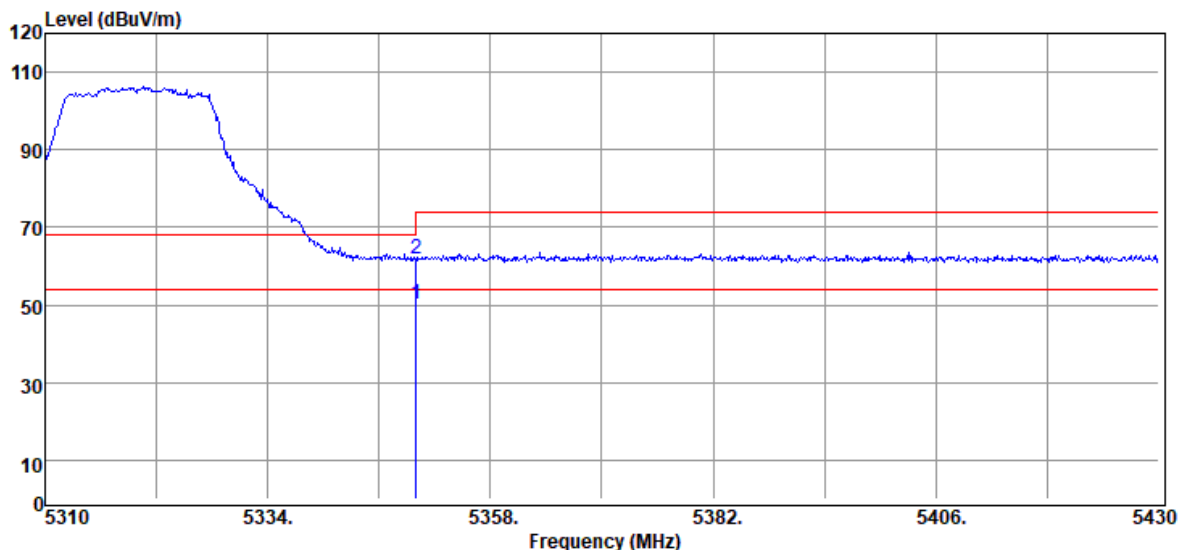
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頻帶外發射輻射量測值 (802.11a) (5250MHz-5350MHz)

Report Number : T190514W01
Operation Band : 802.11a / Band 2
Fundamental Frequency : 5320 MHz
Operation Mode : BE CH HIGH
EUT Pol. : H Plan

Test Date : 2019-06-12
Temp./Humi. : 26/59
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	45.01	5.21	50.22	54.00	-3.78
5350.00	Peak	56.53	5.21	61.74	74.00	-12.26

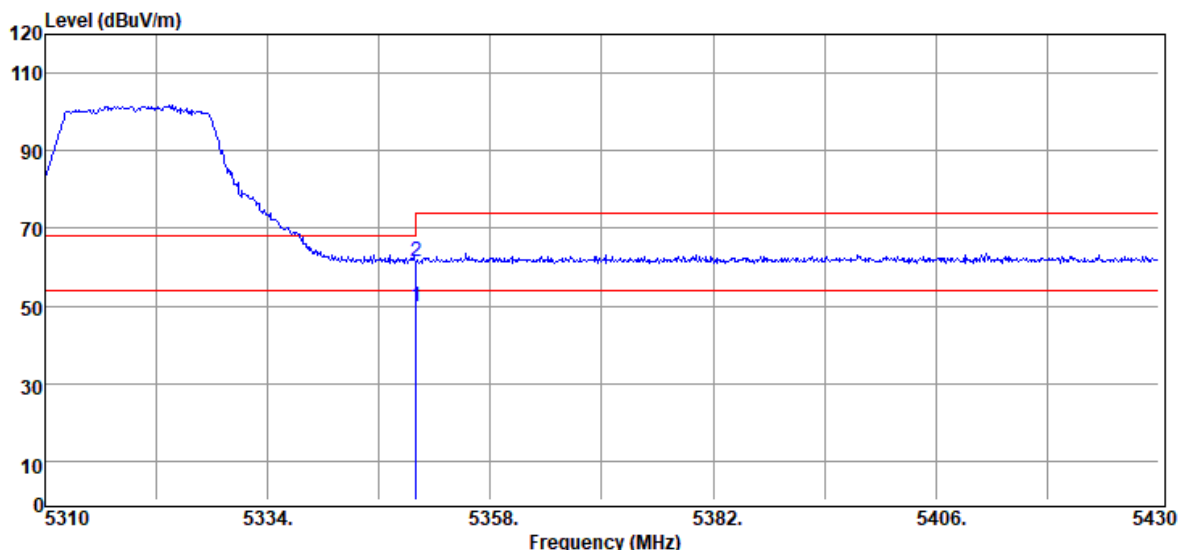
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Report Number :T190514W01
 Operation Band :802.11a / Band 2
 Fundamental Frequency :5320 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :26/59
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	44.82	5.21	50.03	54.00	-3.97
5350.00	Peak	56.17	5.21	61.38	74.00	-12.62

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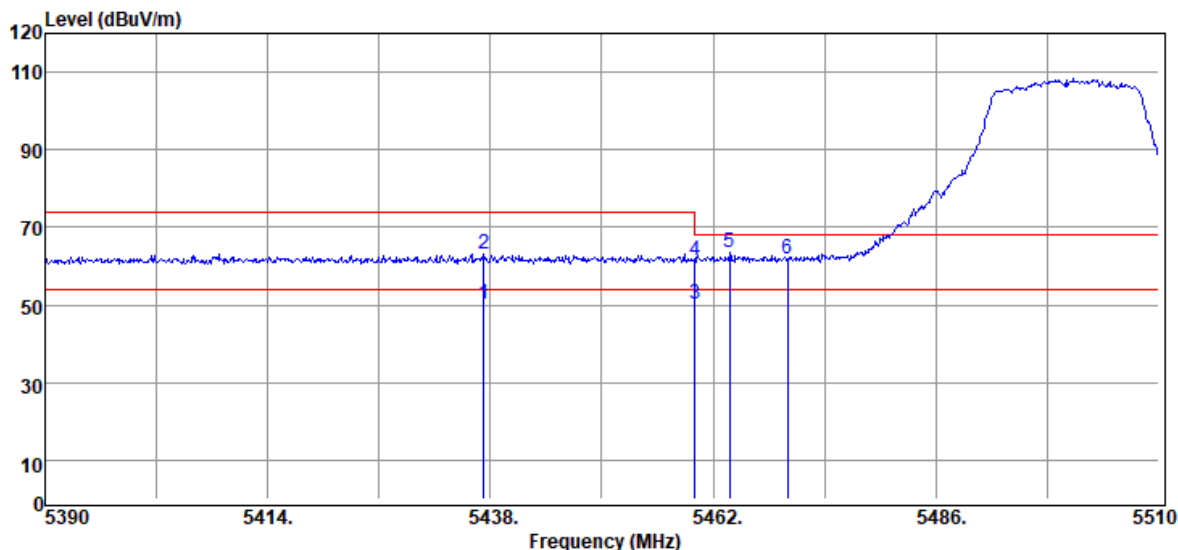
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頻帶外發射輻射量測值 (802.11a) (5470MHz-5725MHz)

Report Number : T190514W01
 Operation Band : 802.11a / Band 3
 Fundamental Frequency : 5500 MHz
 Operation Mode : BE CH LOW
 EUT Pol. : H Plan

Test Date : 2019-06-12
 Temp./Humi. : 26/59
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5437.28	Average	44.70	5.58	50.28	54.00	-3.72
5437.28	Peak	57.63	5.58	63.21	74.00	-10.79
5460.00	Average	44.63	5.63	50.26	54.00	-3.74
5460.00	Peak	55.74	5.63	61.37	74.00	-12.63
5463.80	Peak	57.95	5.63	63.58	68.20	-4.62
5470.00	Peak	56.33	5.65	61.98	68.20	-6.22

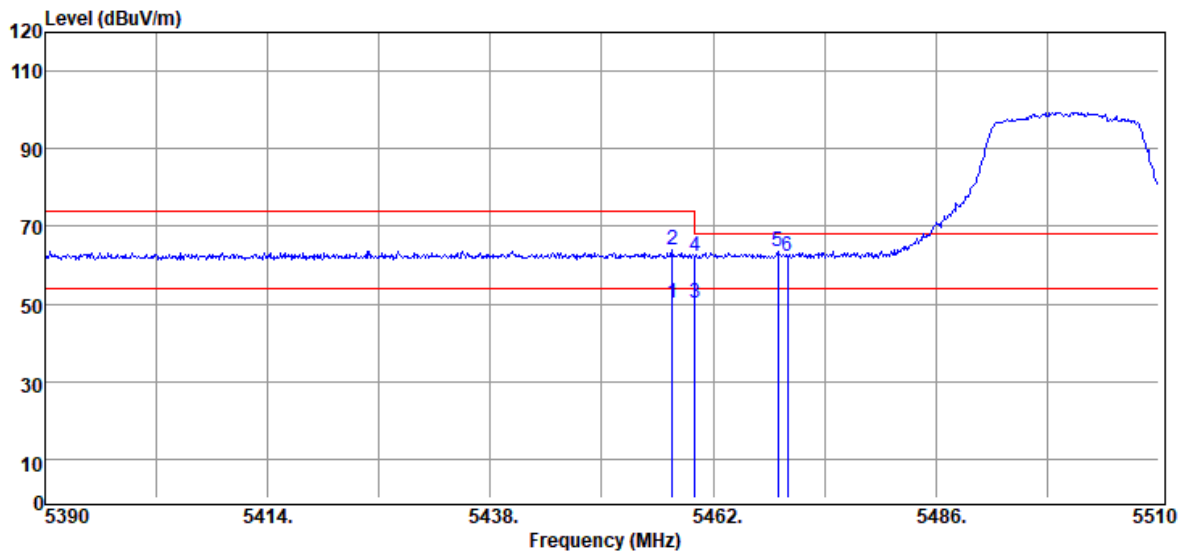
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Report Number :T190514W01
Operation Band :802.11a / Band 3
Fundamental Frequency :5500 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :26/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5457.56	Average	44.58	5.62	50.20	54.00	-3.80
5457.56	Peak	58.12	5.62	63.74	74.00	-10.26
5460.00	Average	44.58	5.63	50.21	54.00	-3.79
5460.00	Peak	56.79	5.63	62.42	74.00	-11.58
5468.96	Peak	57.75	5.65	63.40	68.20	-4.80
5470.00	Peak	56.61	5.65	62.26	68.20	-5.94

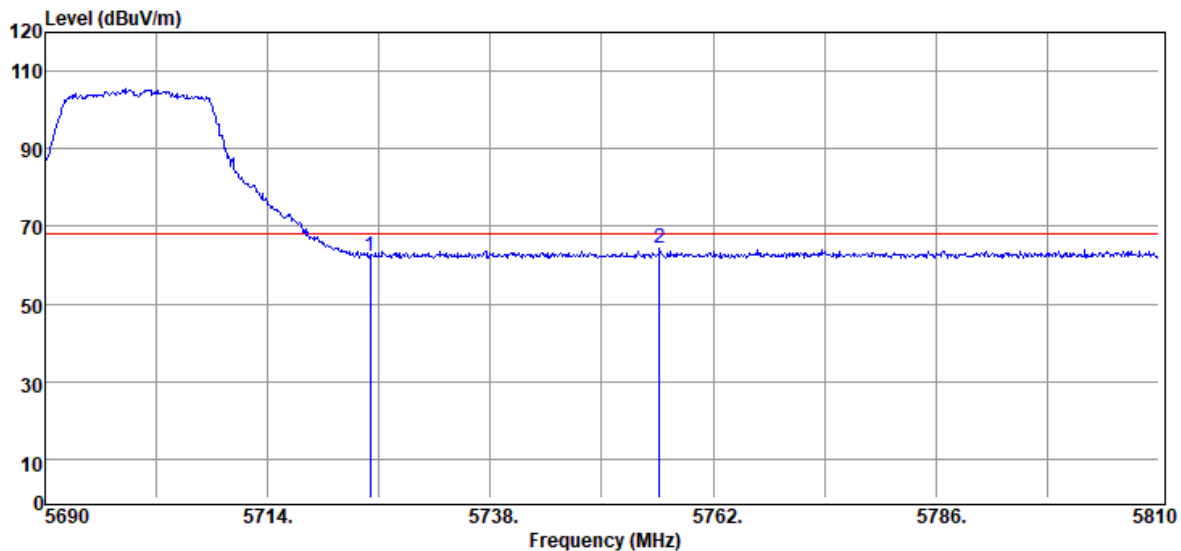
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Report Number :T190514W01
Operation Band :802.11a / Band 3
Fundamental Frequency :5700 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :26/59
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	Peak	56.13	6.34	62.47	68.20	-5.73
5756.24	Peak	58.04	6.36	64.40	68.20	-3.80

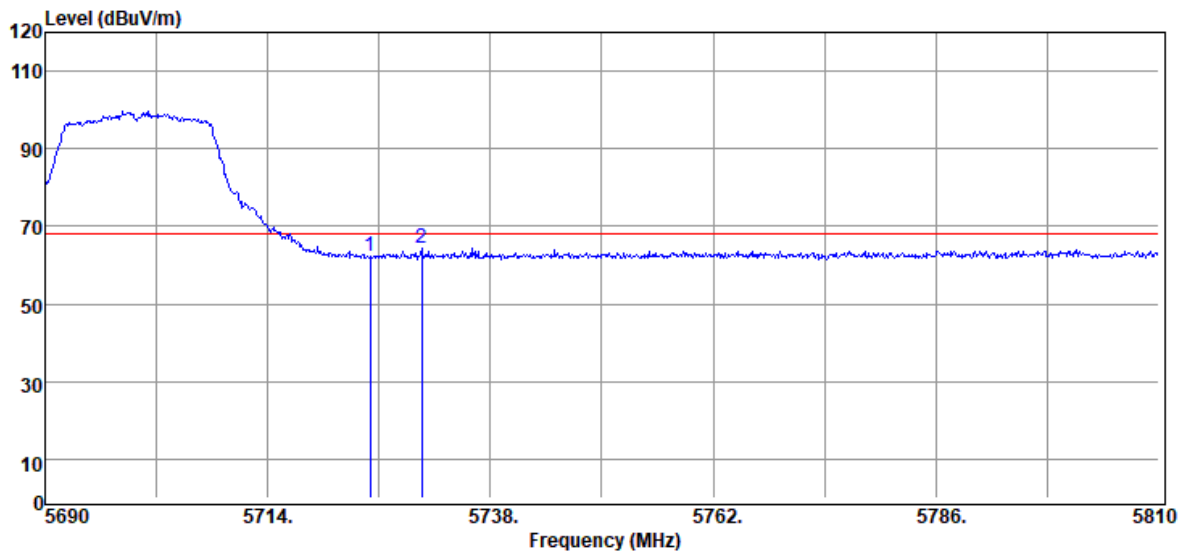
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Report Number :T190514W01
Operation Band :802.11a / Band 3
Fundamental Frequency :5700 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :26/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	55.91	6.34	62.25	68.20	-5.95
5730.56	Peak	58.14	6.34	64.48	68.20	-3.72

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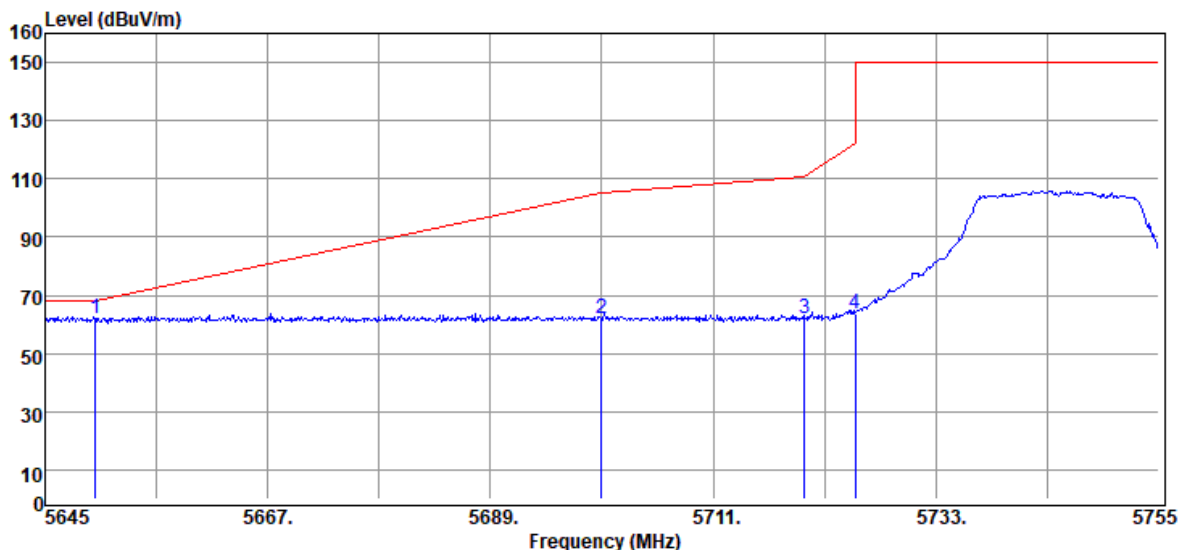
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頻帶外發射輻射量測值 (802.11a) (5725MHz-5850MHz)

Report Number : T190514W01
 Operation Band : 802.11a / Band 4
 Fundamental Frequency : 5745 MHz
 Operation Mode : BE CH LOW
 EUT Pol. : H Plan

Test Date : 2019-06-12
 Temp./Humi. : 26/59
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	55.71	6.04	61.75	68.20	-6.45
5700.00	Peak	55.76	6.32	62.08	105.20	-43.12
5720.00	Peak	55.41	6.33	61.74	110.80	-49.06
5725.00	Peak	57.55	6.34	63.89	122.20	-58.31

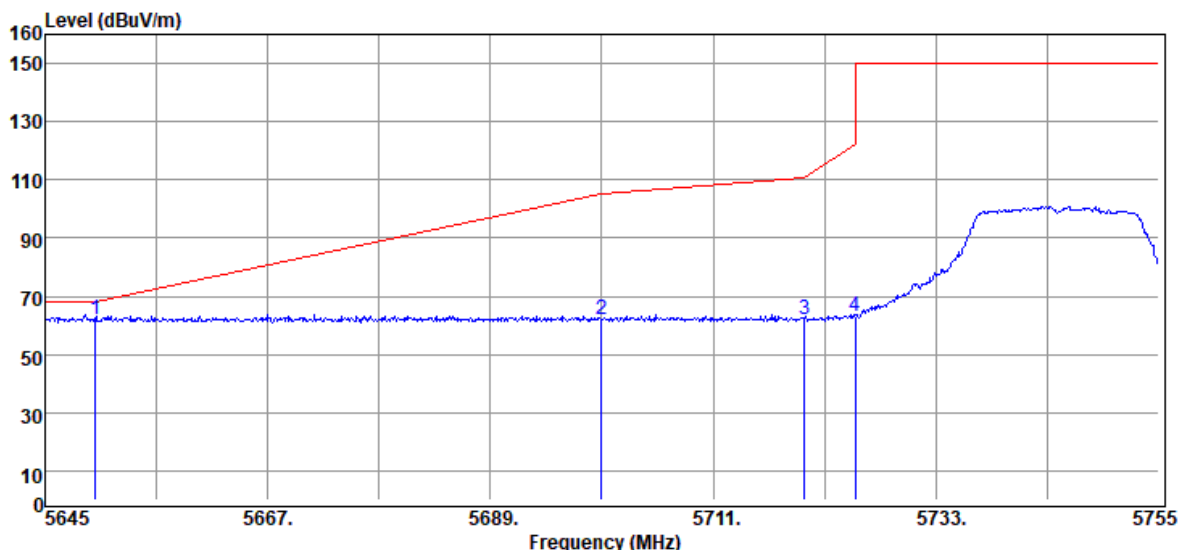
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5745 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :26/59
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	55.75	6.04	61.79	68.20	-6.41
5700.00	Peak	55.93	6.32	62.25	105.20	-42.95
5720.00	Peak	55.63	6.33	61.96	110.80	-48.84
5725.00	Peak	56.66	6.34	63.00	122.20	-59.20

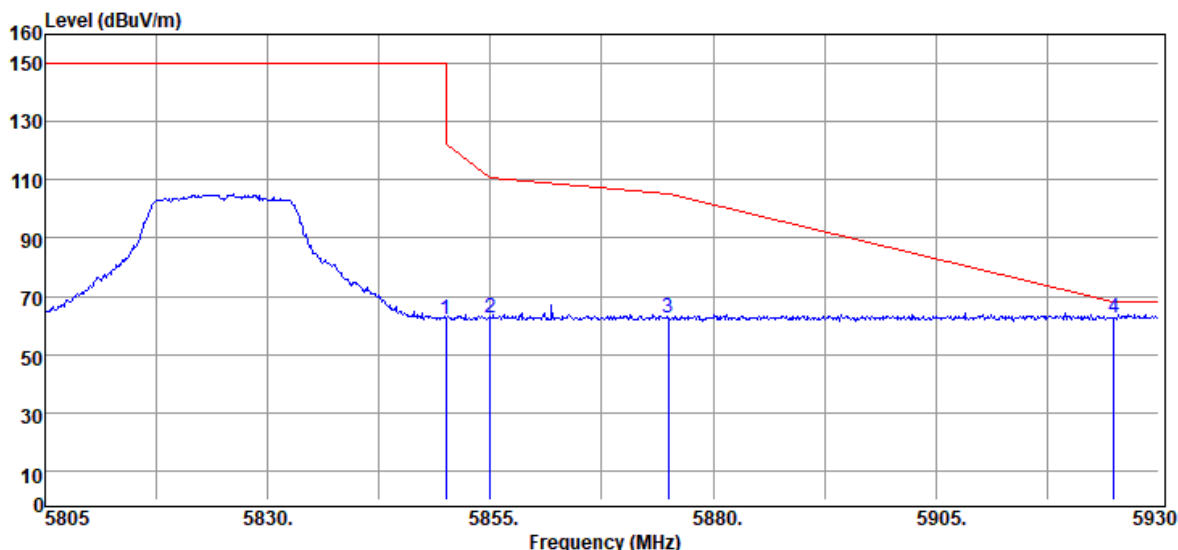
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Report Number :T190514W01
 Operation Band :802.11a / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :26/59
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.67	6.39	62.06	122.20	-60.14
5855.00	Peak	56.16	6.38	62.54	110.80	-48.26
5875.00	Peak	55.93	6.37	62.30	105.20	-42.90
5925.00	Peak	55.98	6.42	62.40	68.20	-5.80

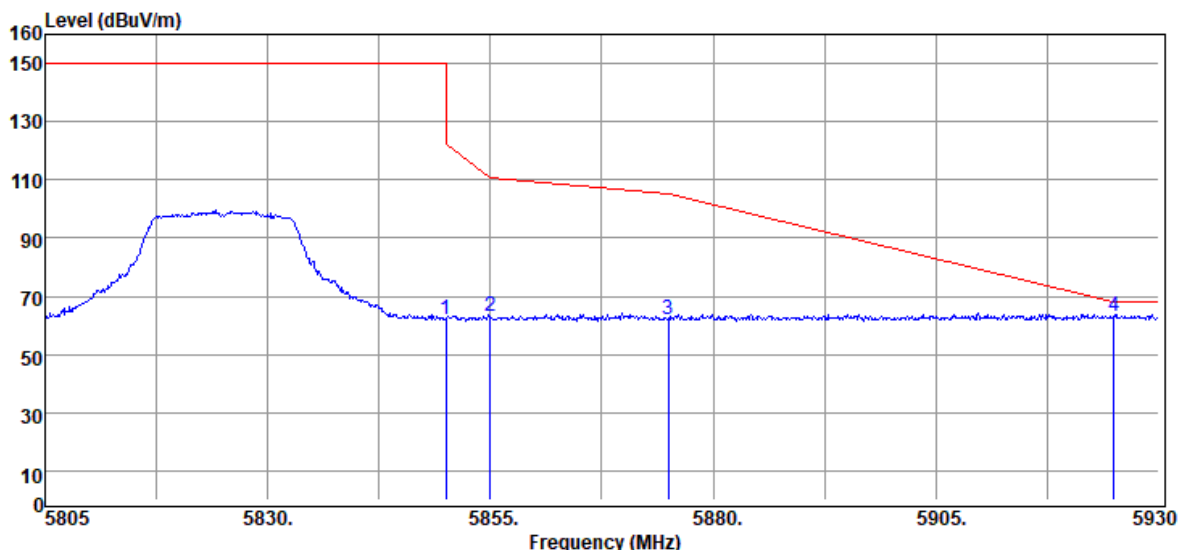
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Report Number :T190514W01
Operation Band :802.11a / Band 4
Fundamental Frequency :5825 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :26/59
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.76	6.39	62.15	122.20	-60.05
5855.00	Peak	56.93	6.38	63.31	110.80	-47.49
5875.00	Peak	55.87	6.37	62.24	105.20	-42.96
5925.00	Peak	56.70	6.42	63.12	68.20	-5.08

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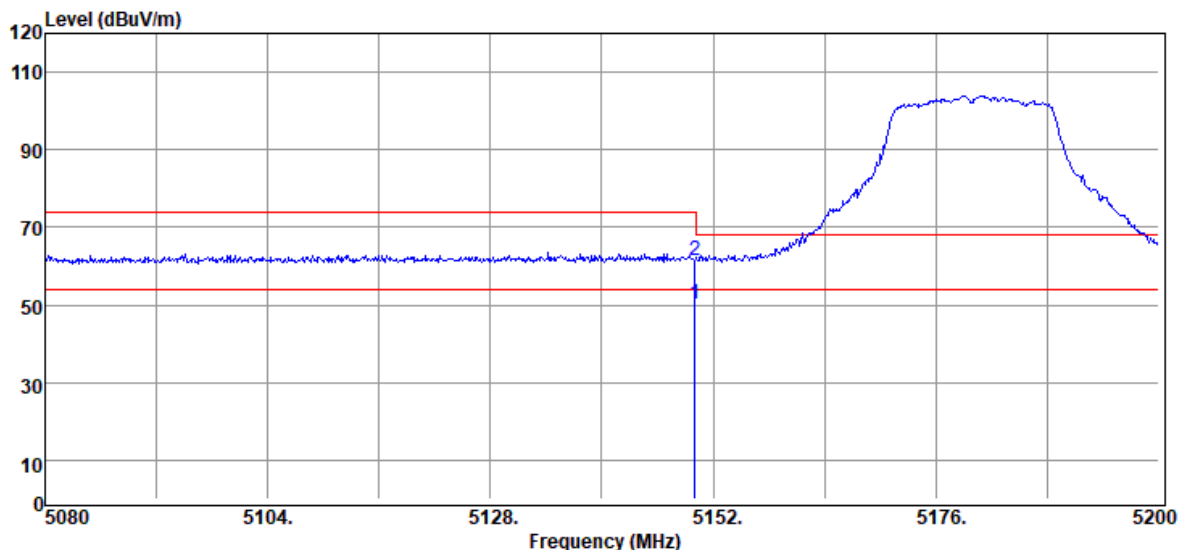
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頻帶外發射輻射量測值 (802.11n HT20) (5150MHz-5250MHz)

Report Number : T190514W01
 Operation Band : 802.11n20 / Band 1
 Fundamental Frequency : 5180 MHz
 Operation Mode : BE CH LOW
 EUT Pol. : H Plan

Test Date : 2019-06-12
 Temp./Humi. : 25/62
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	45.26	4.92	50.18	54.00	-3.82
5150.00	Peak	56.71	4.92	61.63	74.00	-12.37

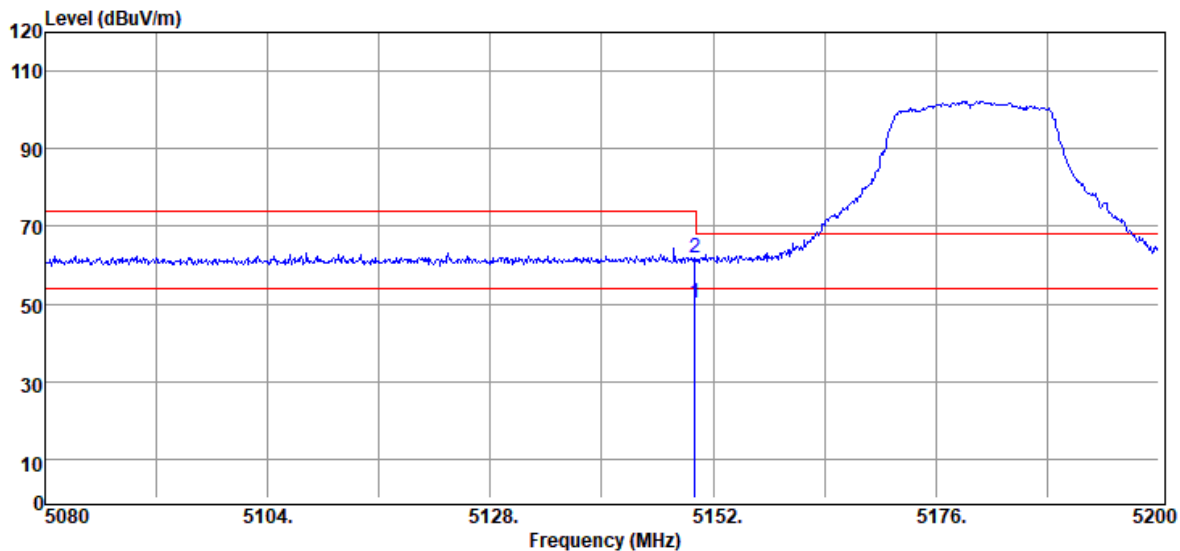
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Report Number :T190514W01
Operation Band :802.11n20 / Band 1
Fundamental Frequency :5180 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :25/62
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Average	45.16	4.92	50.08	54.00	-3.92
5150.00	Peak	56.89	4.92	61.81	74.00	-12.19

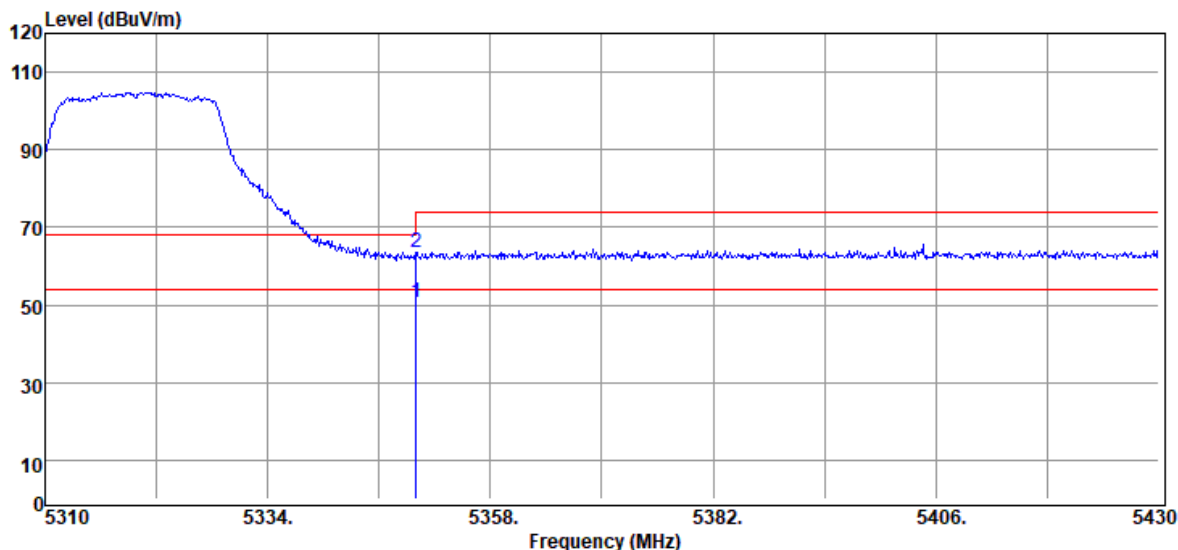
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頻帶外發射輻射量測值 (802.11n HT20) (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11n20 / Band 2	Temp./Humi.	:25/62
Fundamental Frequency	:5320 MHz	Engineer	:Jerry
Operation Mode	:BE CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	45.53	5.21	50.74	54.00	-3.26
5350.00	Peak	58.36	5.21	63.57	74.00	-10.43

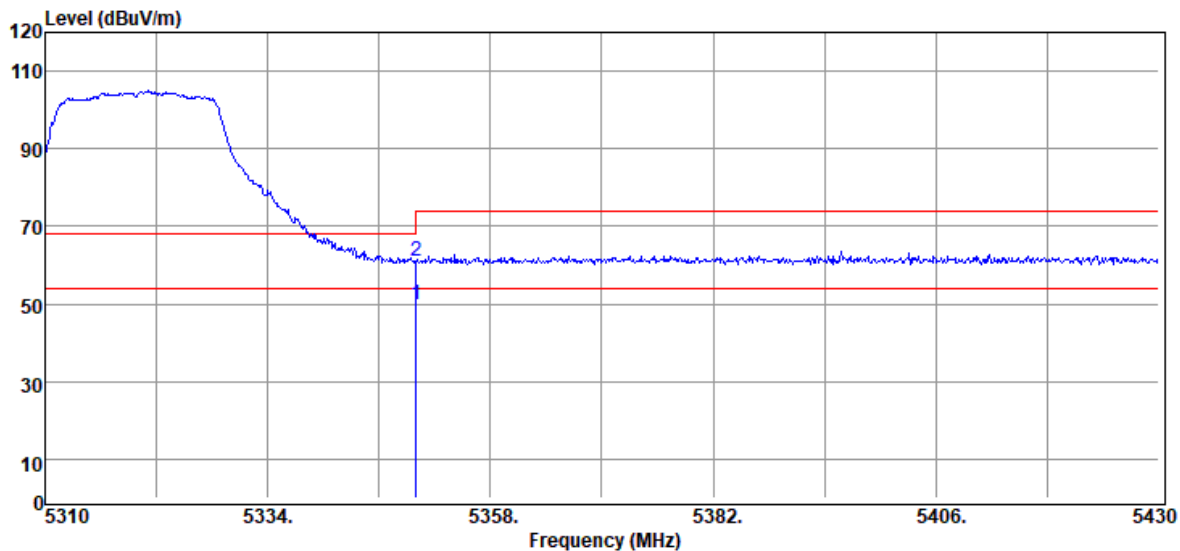
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 2
 Fundamental Frequency :5320 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :25/62
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	44.75	5.21	49.96	54.00	-4.04
5350.00	Peak	56.01	5.21	61.22	74.00	-12.78

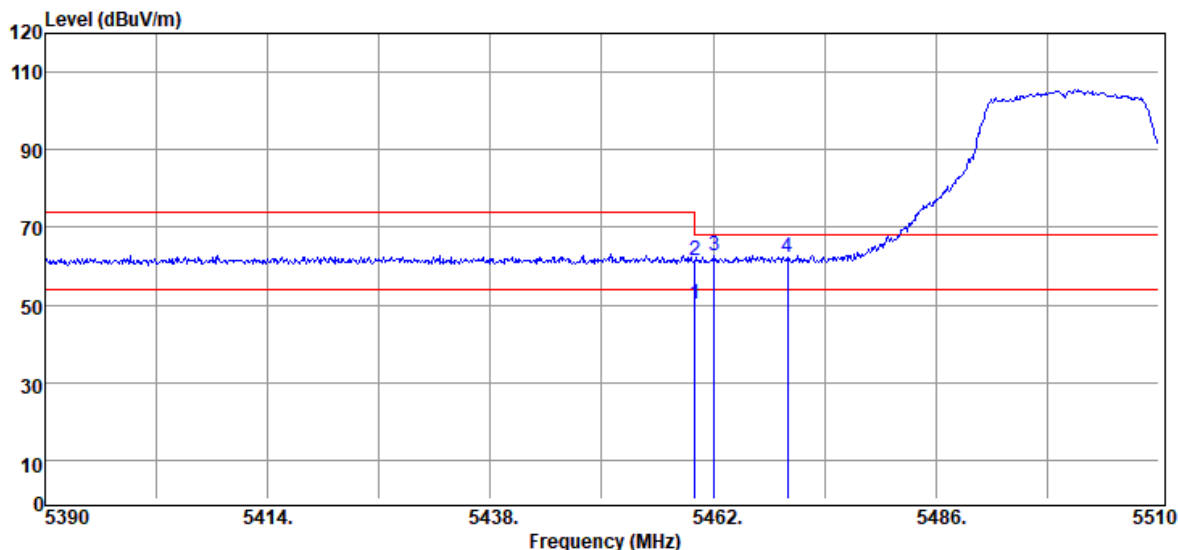
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頻帶外發射輻射量測值 (802.11n HT20) (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11n20 / Band 3	Temp./Humi.	:25/62
Fundamental Frequency	:5500 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	Average	44.58	5.63	50.21	54.00	-3.79
5460.00	Peak	55.65	5.63	61.28	74.00	-12.72
5462.12	Peak	57.06	5.63	62.69	68.20	-5.51
5470.00	Peak	56.66	5.65	62.31	68.20	-5.89

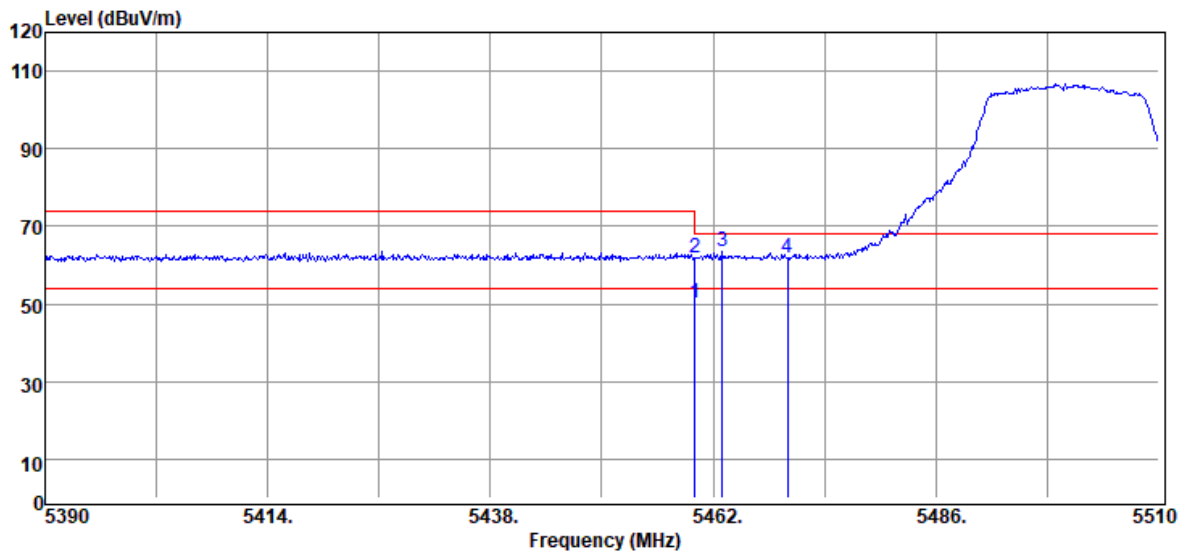
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Report Number :T190514W01
Operation Band :802.11n20 / Band 3
Fundamental Frequency :5500 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :25/62
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Average	44.66	5.63	50.29	54.00	-3.71
5460.00	Peak	56.25	5.63	61.88	74.00	-12.12
5462.96	Peak	57.69	5.63	63.32	68.20	-4.88
5470.00	Peak	56.38	5.65	62.03	68.20	-6.17

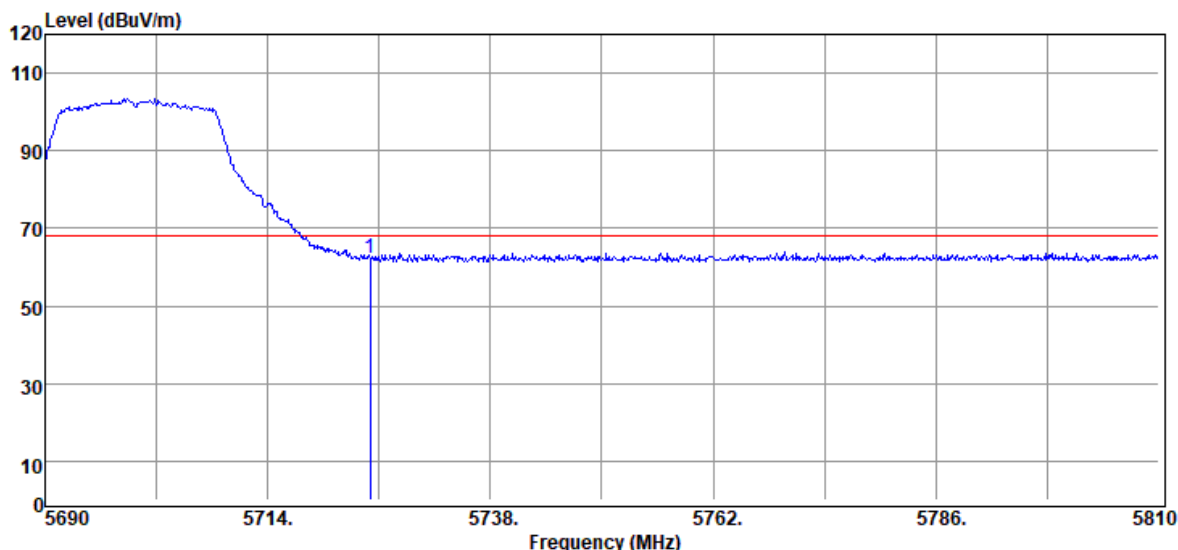
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5700 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :25/62
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	55.97	6.34	62.31	68.20	-5.89

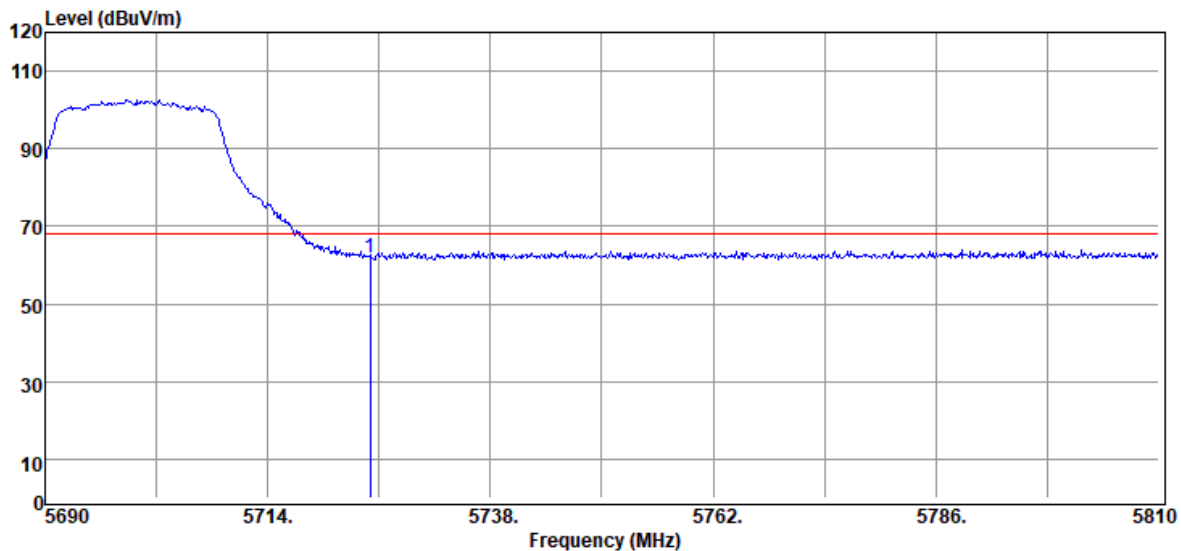
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 3
 Fundamental Frequency :5700 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :25/62
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	55.69	6.34	62.03	68.20	-6.17

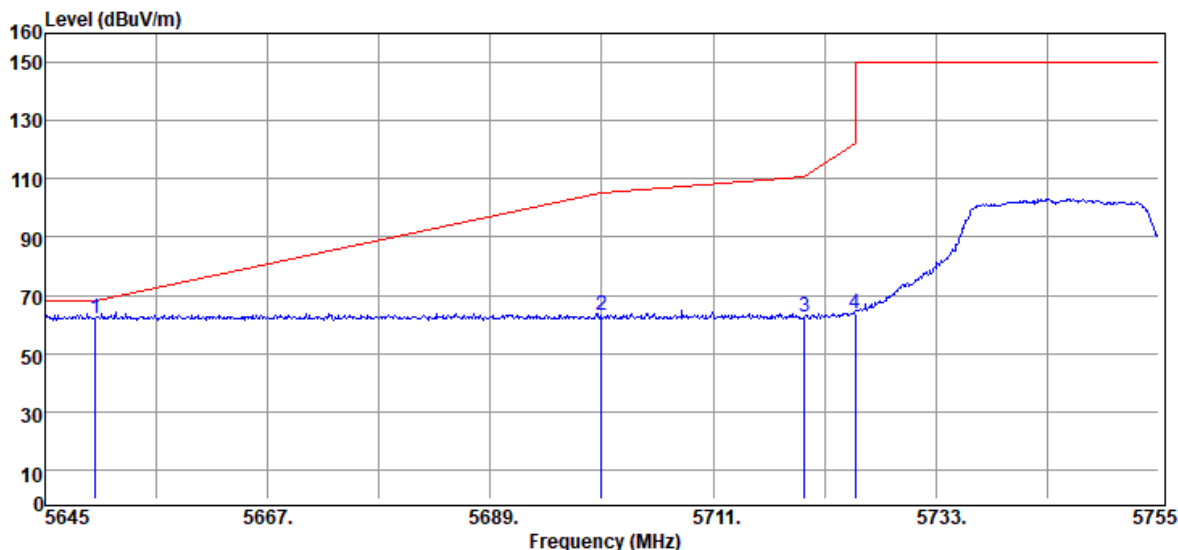
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頻帶外發射輻射量測值 (802.11n HT20) (5725MHz-5850MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11n20 / Band 4	Temp./Humi.	:25/62
Fundamental Frequency	:5745 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	56.03	6.04	62.07	68.20	-6.13
5700.00	Peak	56.80	6.32	63.12	105.20	-42.08
5720.00	Peak	56.09	6.33	62.42	110.80	-48.38
5725.00	Peak	57.34	6.34	63.68	122.20	-58.52

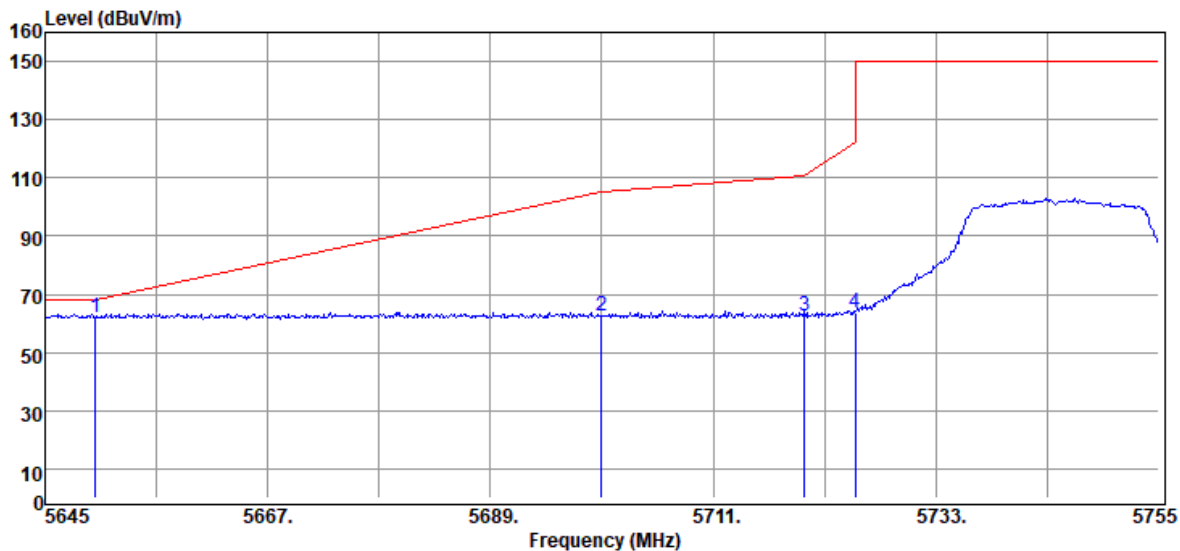
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Report Number :T190514W01
Operation Band :802.11n20 / Band 4
Fundamental Frequency :5745 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :25/62
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	56.18	6.04	62.22	68.20	-5.98
5700.00	Peak	56.23	6.32	62.55	105.20	-42.65
5720.00	Peak	56.02	6.33	62.35	110.80	-48.45
5725.00	Peak	57.31	6.34	63.65	122.20	-58.55

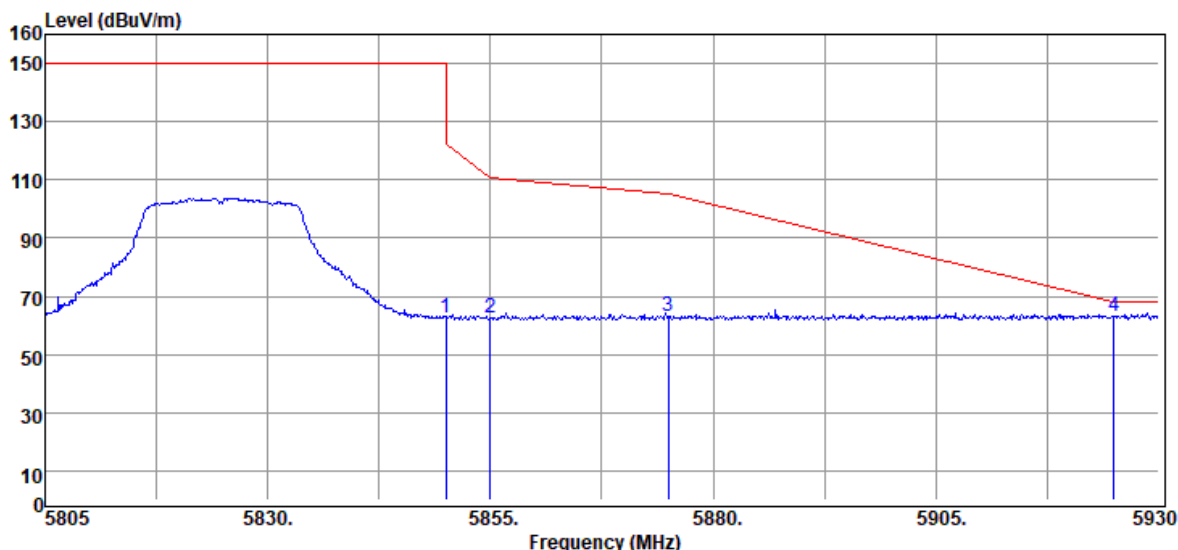
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :25/62
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	56.23	6.39	62.62	122.20	-59.58
5855.00	Peak	56.28	6.38	62.66	110.80	-48.14
5875.00	Peak	56.94	6.37	63.31	105.20	-41.89
5925.00	Peak	56.44	6.42	62.86	68.20	-5.34

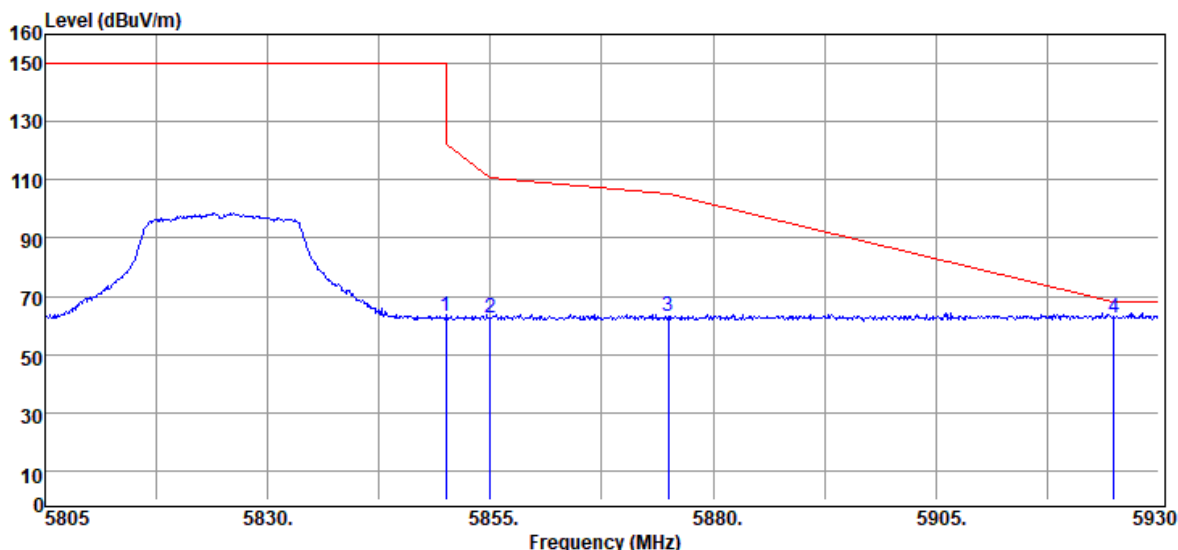
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Report Number :T190514W01
 Operation Band :802.11n20 / Band 4
 Fundamental Frequency :5825 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :25/62
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	56.62	6.39	63.01	122.20	-59.19
5855.00	Peak	56.10	6.38	62.48	110.80	-48.32
5875.00	Peak	56.76	6.37	63.13	105.20	-42.07
5925.00	Peak	56.23	6.42	62.65	68.20	-5.55

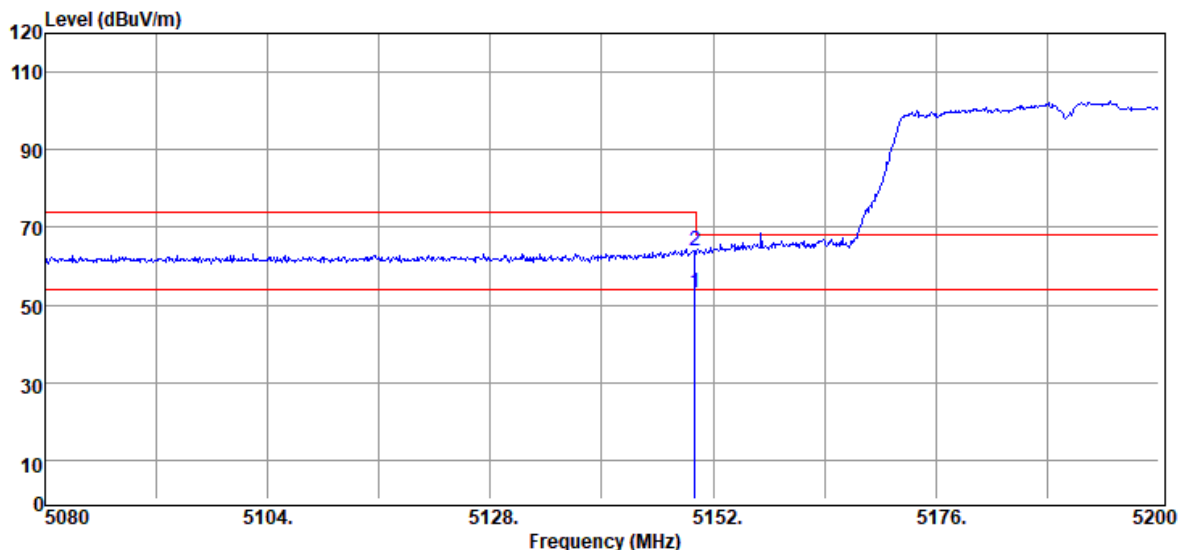
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頻帶外發射輻射量測值 (802.11n HT40) (5180MHz-5240MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11n40 / Band 1	Temp./Humi.	:23/57
Fundamental Frequency	:5190 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	Average	48.08	4.92	53.00	54.00	-1.00
5150.00	Peak	58.96	4.92	63.88	74.00	-10.12

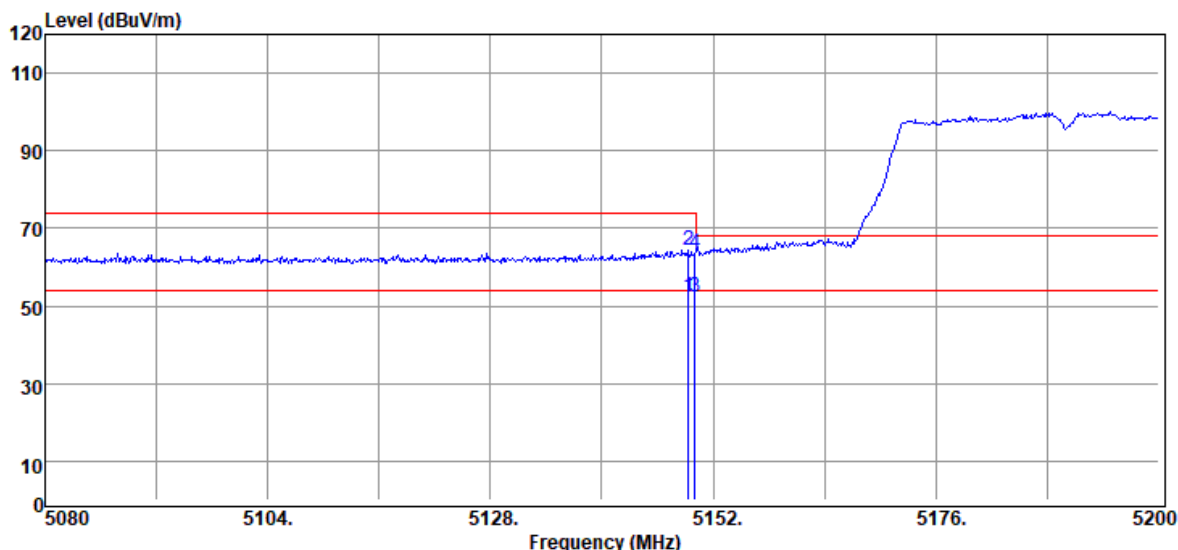
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 1
 Fundamental Frequency :5190 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.36	Average	47.46	4.92	52.38	54.00	-1.62
5149.36	Peak	59.45	4.92	64.37	74.00	-9.63
5150.00	Average	47.52	4.92	52.44	54.00	-1.56
5150.00	Peak	58.62	4.92	63.54	74.00	-10.46

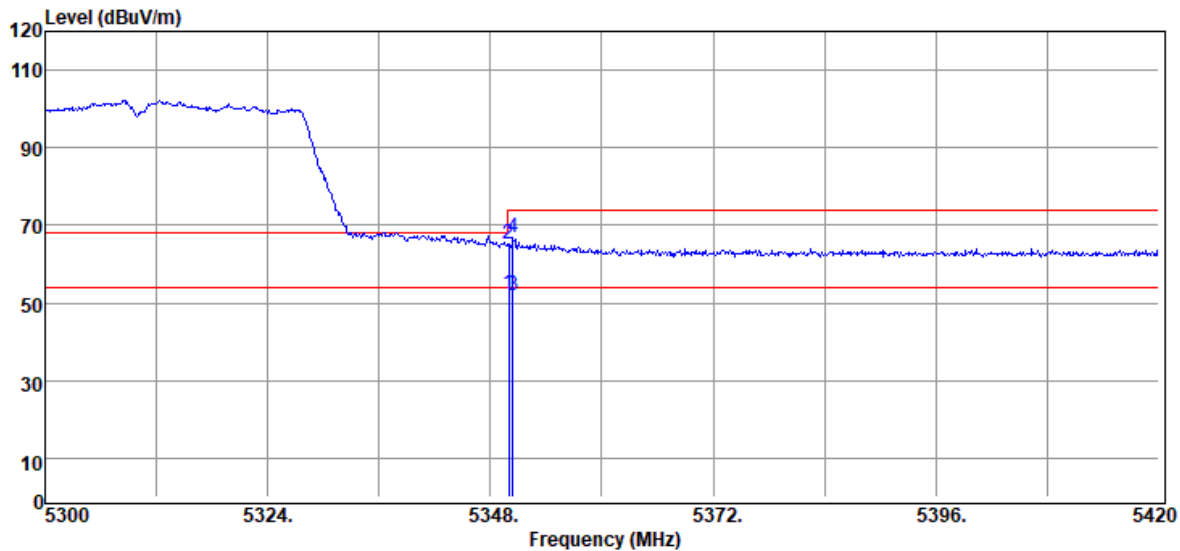
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頻帶外發射輻射量測值 (802.11n HT40) (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11n40 / Band 2	Temp./Humi.	:23/57
Fundamental Frequency	:5310 MHz	Engineer	:Jerry
Operation Mode	:BE CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	47.01	5.21	52.22	54.00	-1.78
5350.00	Peak	59.84	5.21	65.05	74.00	-8.95
5350.40	Average	46.68	5.22	51.90	54.00	-2.10
5350.40	Peak	61.69	5.22	66.91	74.00	-7.09

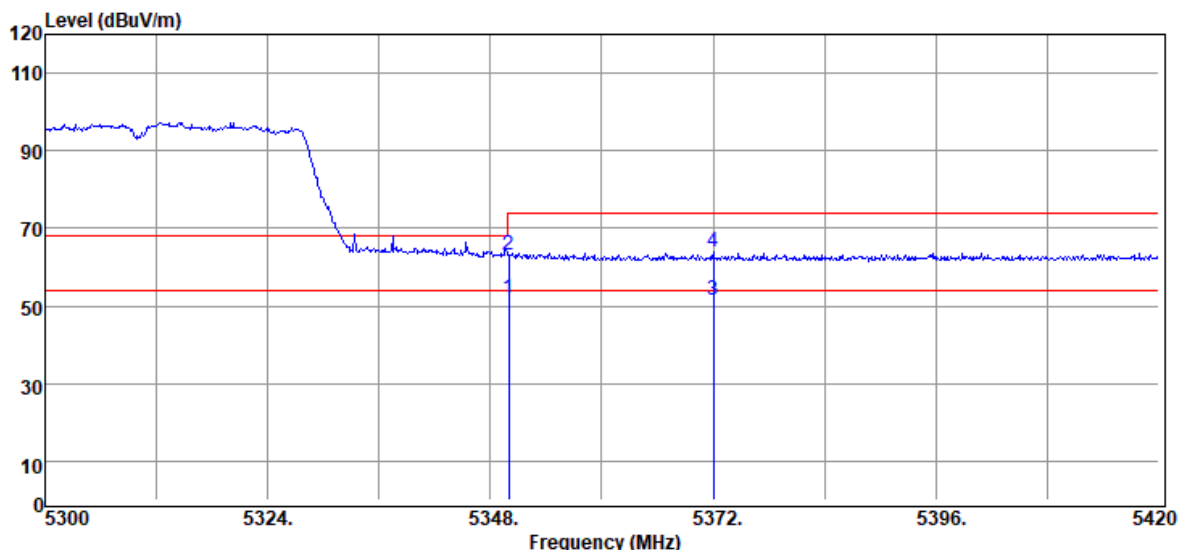
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 2
 Fundamental Frequency :5310 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	46.55	5.21	51.76	54.00	-2.24
5350.00	Peak	57.96	5.21	63.17	74.00	-10.83
5372.00	Average	46.26	5.30	51.56	54.00	-2.44
5372.00	Peak	58.78	5.30	64.08	74.00	-9.92

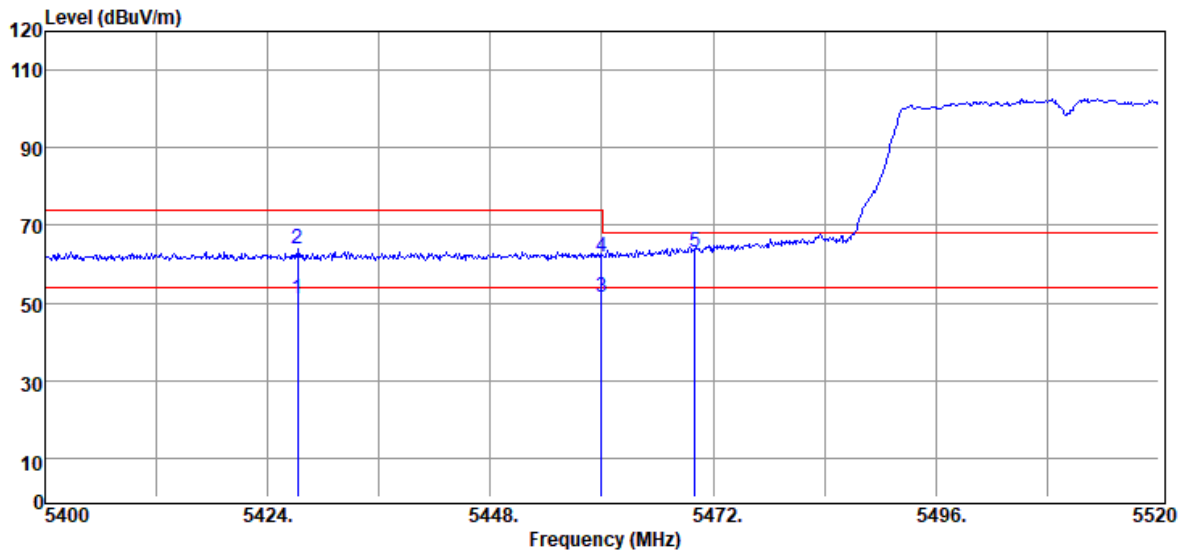
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頻帶外發射輻射量測值 (802.11n HT40) (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11n40 / Band 3	Temp./Humi.	:23/57
Fundamental Frequency	:5510 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5427.24	Average	45.53	5.53	51.06	54.00	-2.94
5427.24	Peak	58.28	5.53	63.81	74.00	-10.19
5460.00	Average	45.66	5.63	51.29	54.00	-2.71
5460.00	Peak	56.12	5.63	61.75	74.00	-12.25
5470.00	Peak	57.42	5.65	63.07	68.20	-5.13

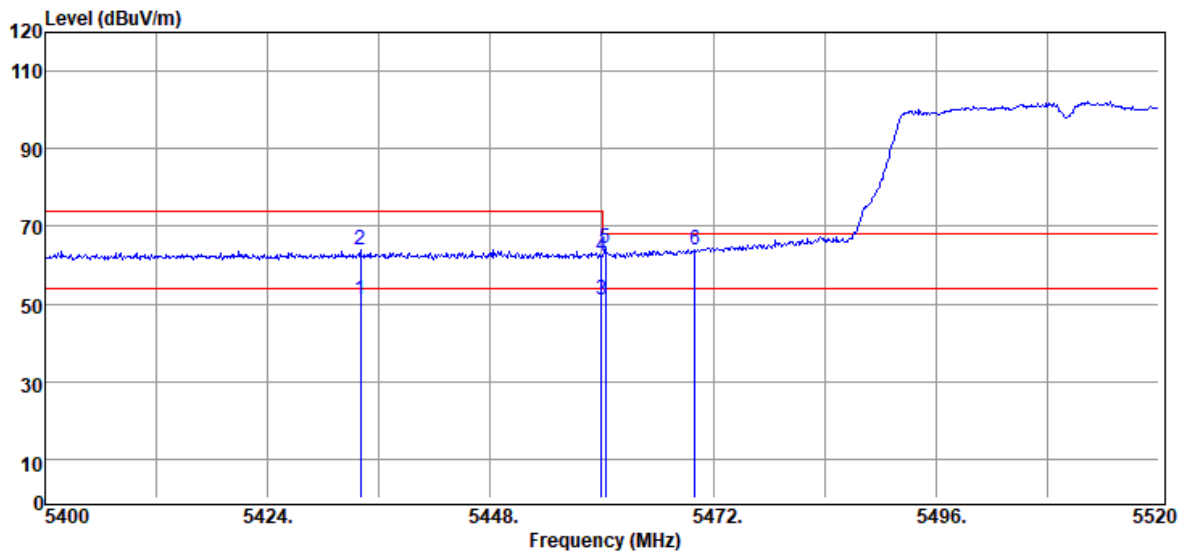
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Report Number :T190514W01
Operation Band :802.11n40 / Band 3
Fundamental Frequency :5510 MHz
Operation Mode :BE CH LOW
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :23/57
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5433.96	Average	45.49	5.57	51.06	54.00	-2.94
5433.96	Peak	58.50	5.57	64.07	74.00	-9.93
5460.00	Average	45.43	5.63	51.06	54.00	-2.94
5460.00	Peak	56.58	5.63	62.21	74.00	-11.79
5460.36	Peak	58.81	5.62	64.43	68.20	-3.77
5470.00	Peak	58.24	5.65	63.89	68.20	-4.31

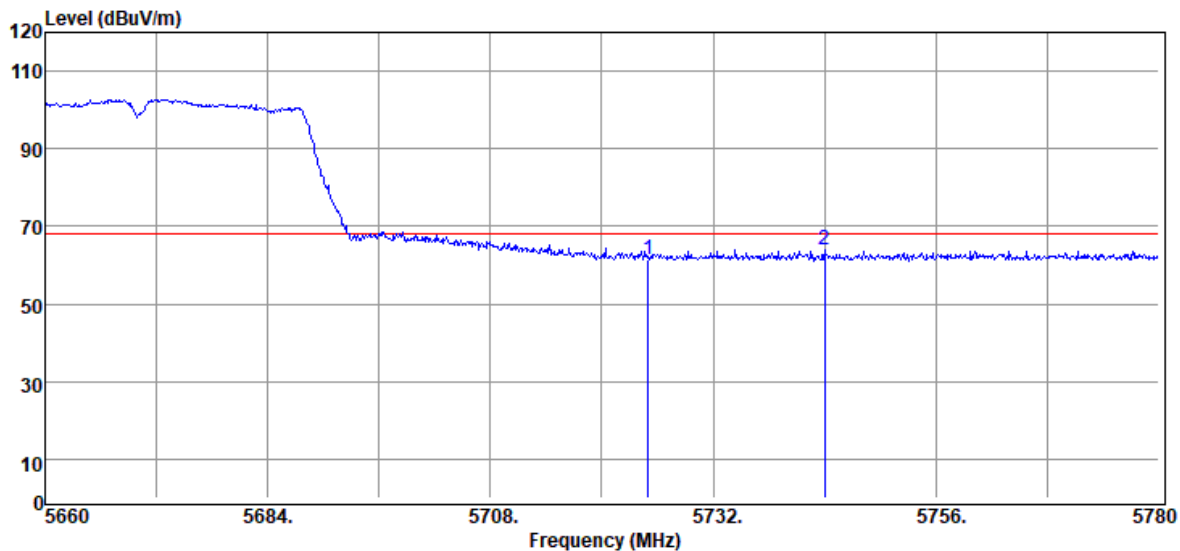
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Report Number :T190514W01
Operation Band :802.11n40 / Band 3
Fundamental Frequency :5670 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :23/57
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	55.12	6.34	61.46	68.20	-6.74
5744.00	Peak	57.76	6.37	64.13	68.20	-4.07

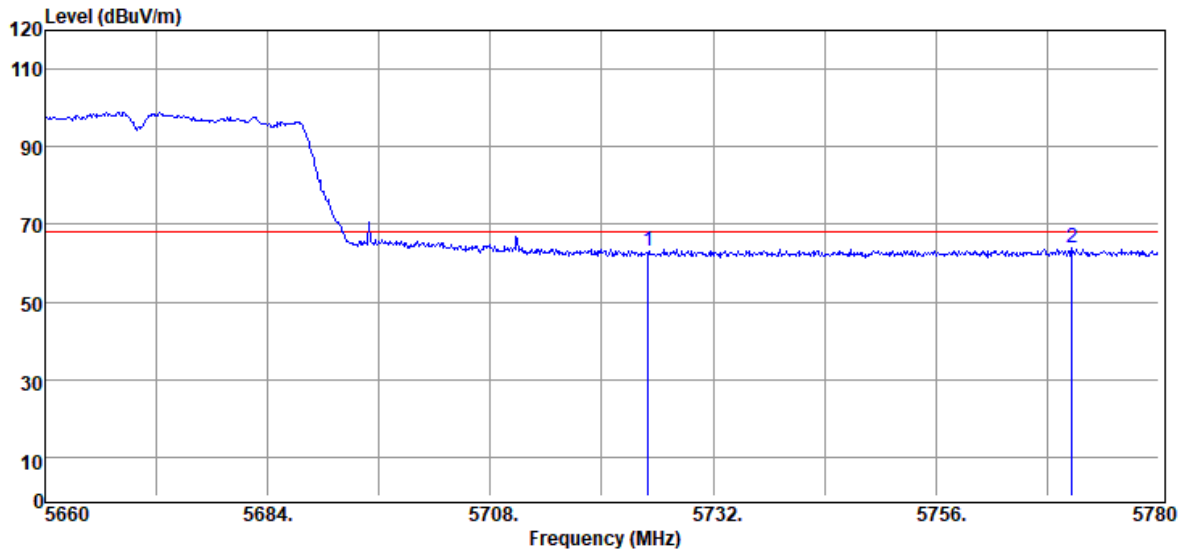
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Report Number :T190514W01
Operation Band :802.11n40 / Band 3
Fundamental Frequency :5670 MHz
Operation Mode :BE CH HIGH
EUT Pol. :H Plan

Test Date :2019-06-12
Temp./Humi. :23/57
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	56.79	6.34	63.13	68.20	-5.07
5770.64	Peak	57.60	6.34	63.94	68.20	-4.26

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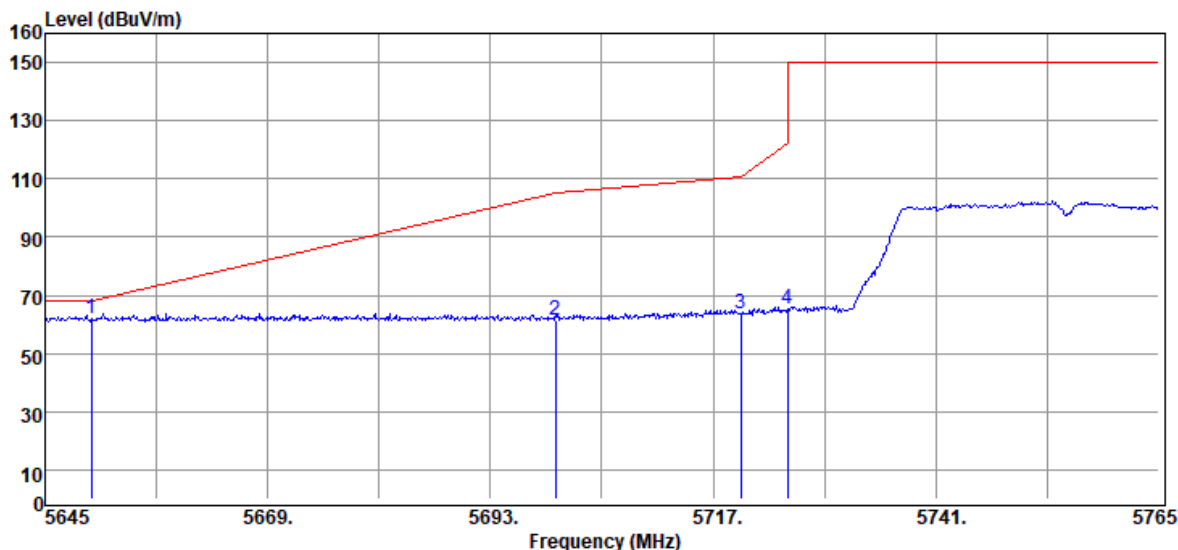
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頻帶外發射輻射量測值 (802.11n HT40) (5725MHz-5850MHz)

Report Number : T190514W01
 Operation Band : 802.11n40 / Band 4
 Fundamental Frequency : 5755 MHz
 Operation Mode : BE CH LOW
 EUT Pol. : H Plan

Test Date : 2019-06-12
 Temp./Humi. : 23/57
 Engineer : Jerry
 Measurement Antenna Pol. : VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	55.92	6.04	61.96	68.20	-6.24
5700.00	Peak	55.38	6.32	61.70	105.20	-43.50
5720.00	Peak	57.19	6.33	63.52	110.80	-47.28
5725.00	Peak	58.91	6.34	65.25	122.20	-56.95

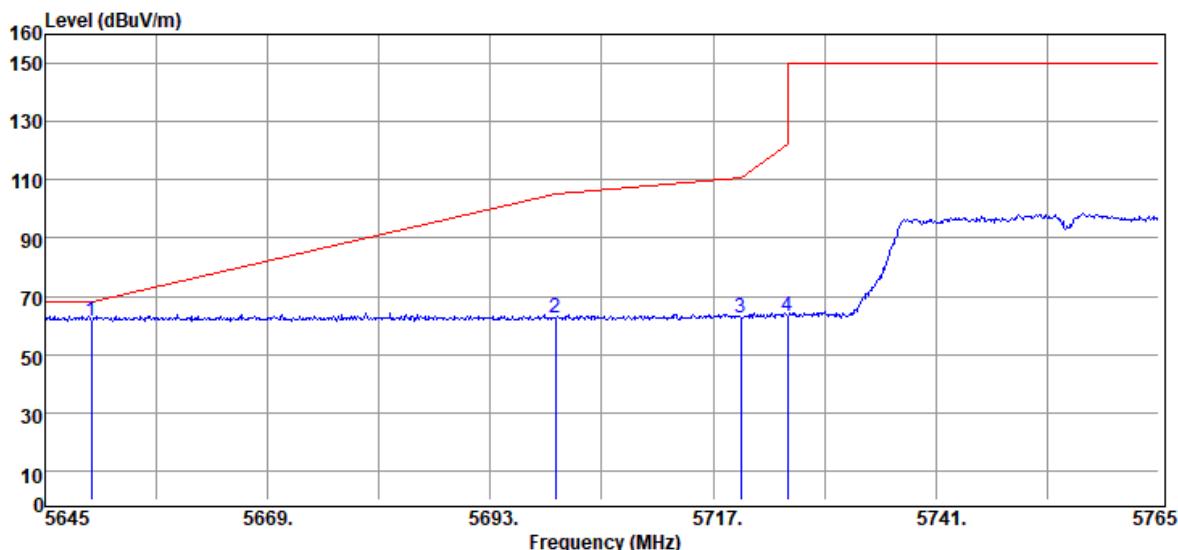
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 4
 Fundamental Frequency :5755 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	55.68	6.04	61.72	68.20	-6.48
5700.00	Peak	56.10	6.32	62.42	105.20	-42.78
5720.00	Peak	56.16	6.33	62.49	110.80	-48.31
5725.00	Peak	56.76	6.34	63.10	122.20	-59.10

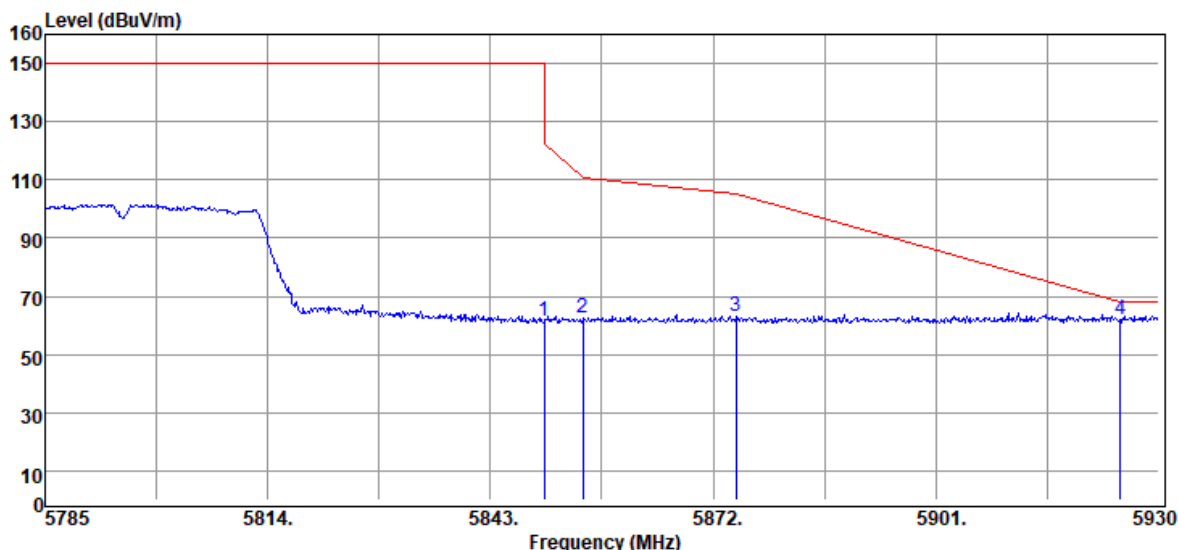
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 4
 Fundamental Frequency :5795 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.17	6.39	61.56	122.20	-60.64
5855.00	Peak	56.07	6.38	62.45	110.80	-48.35
5875.00	Peak	56.51	6.37	62.88	105.20	-42.32
5925.00	Peak	55.49	6.42	61.91	68.20	-6.29

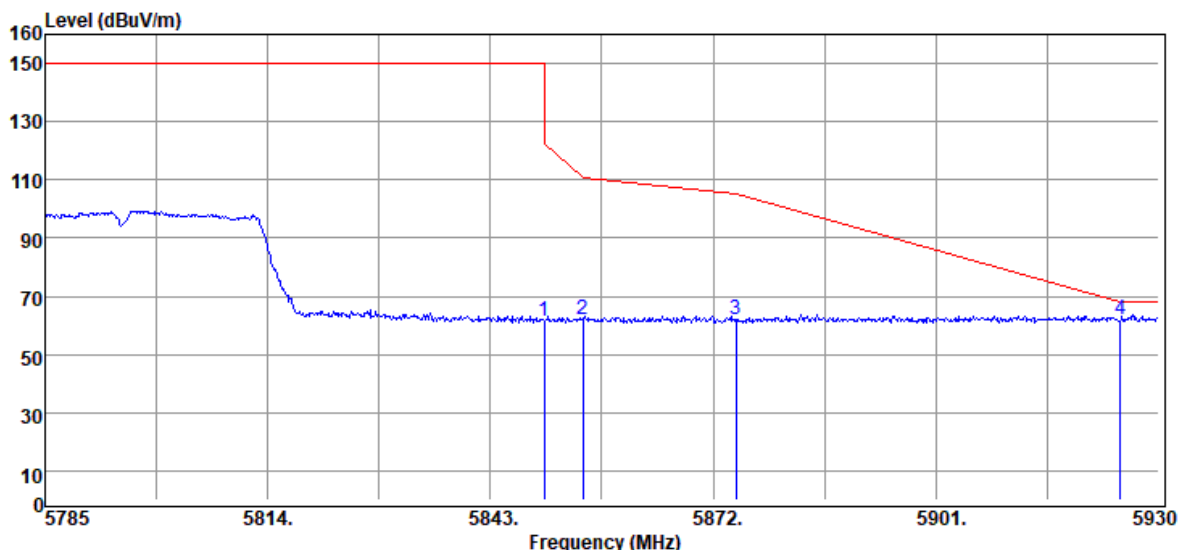
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Report Number :T190514W01
 Operation Band :802.11n40 / Band 4
 Fundamental Frequency :5795 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	55.30	6.39	61.69	122.20	-60.51
5855.00	Peak	55.48	6.38	61.86	110.80	-48.94
5875.00	Peak	55.88	6.37	62.25	105.20	-42.95
5925.00	Peak	55.72	6.42	62.14	68.20	-6.06

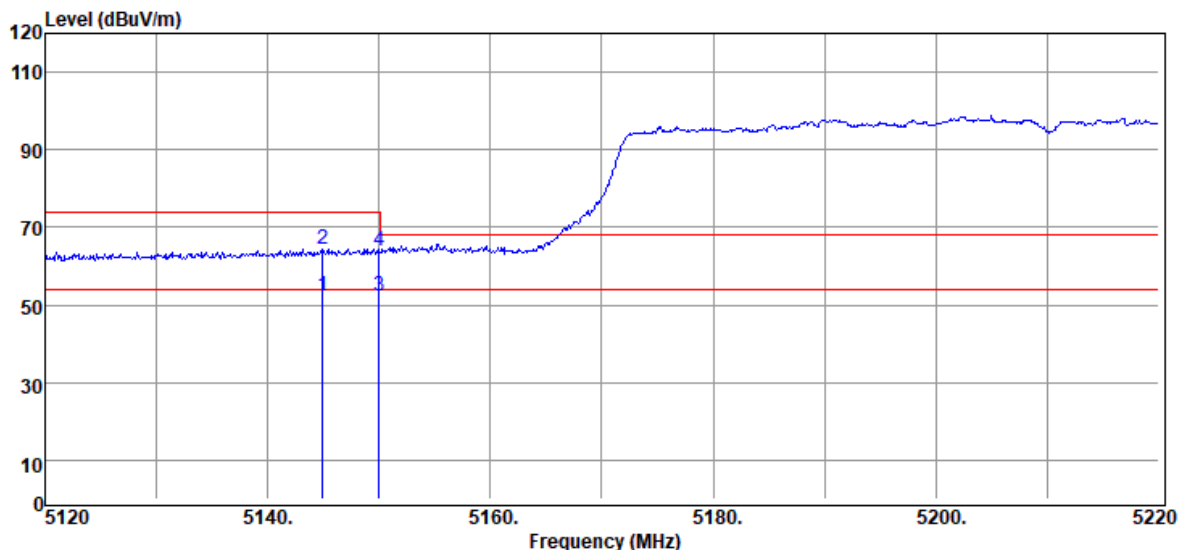
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頻帶外發射輻射量測值 (802.11ac VHT80) (5150MHz-5250MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11ac80 / Band 1	Temp./Humi.	:23/57
Fundamental Frequency	:5210 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5144.90	Average	47.34	4.92	52.26	54.00	-1.74
5144.90	Peak	59.42	4.92	64.34	74.00	-9.66
5150.00	Average	47.45	4.92	52.37	54.00	-1.63
5150.00	Peak	59.15	4.92	64.07	74.00	-9.93

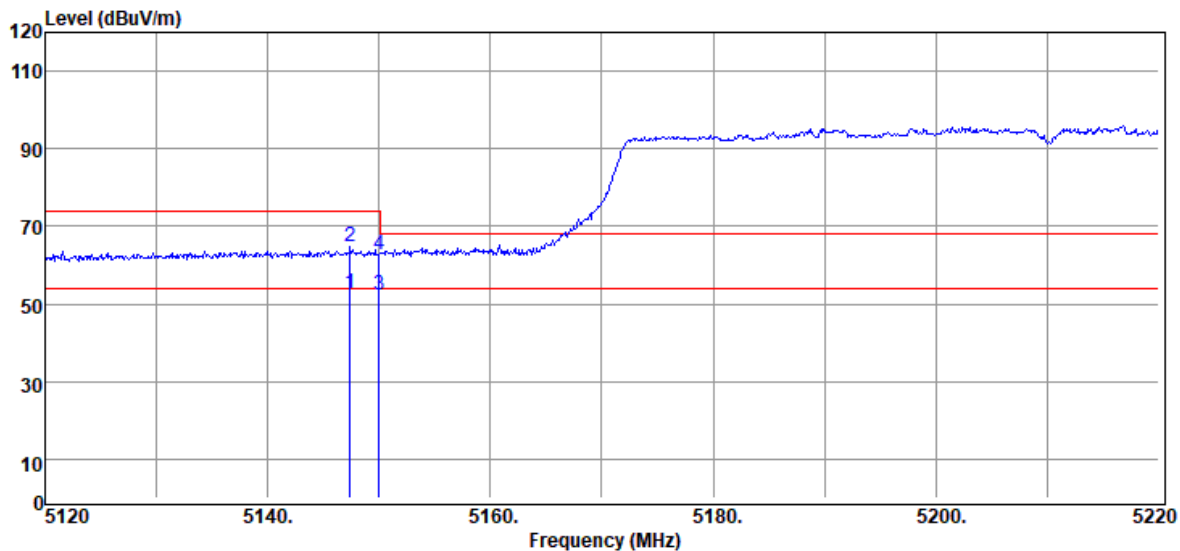
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 1
 Fundamental Frequency :5210 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5147.40	Average	47.65	4.92	52.57	54.00	-1.43
5147.40	Peak	59.73	4.92	64.65	74.00	-9.35
5150.00	Average	47.59	4.92	52.51	54.00	-1.49
5150.00	Peak	57.88	4.92	62.80	74.00	-11.20

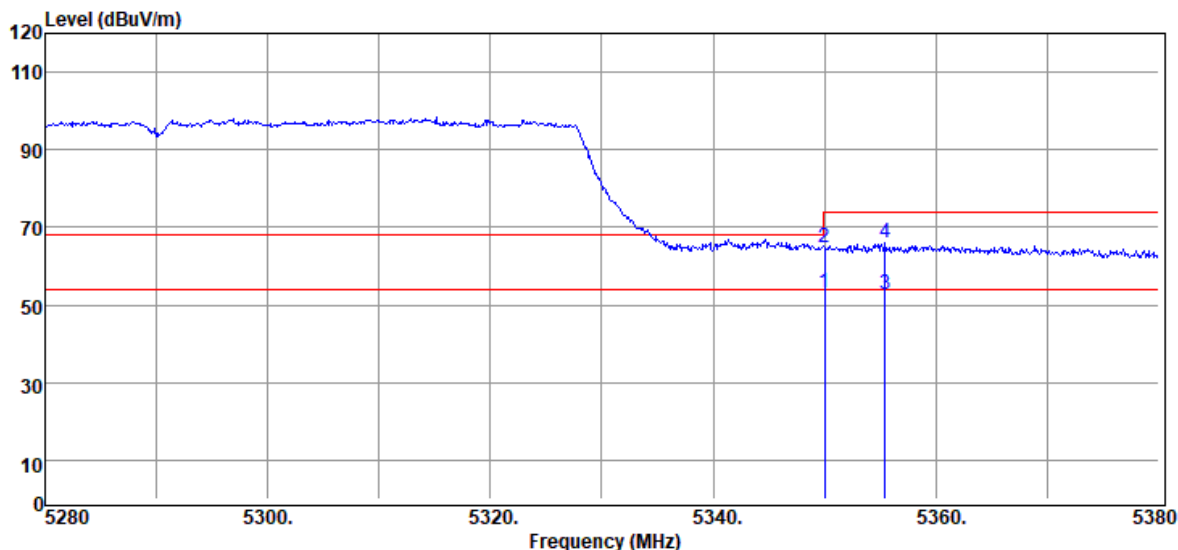
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頻帶外發射輻射量測值 (802.11ac VHT80) (5250MHz-5350MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11ac80 / Band 2	Temp./Humi.	:23/57
Fundamental Frequency	:5290 MHz	Engineer	:Jerry
Operation Mode	:BE CH HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5350.00	Average	47.75	5.21	52.96	54.00	-1.04
5350.00	Peak	59.43	5.21	64.64	74.00	-9.36
5355.40	Average	47.45	5.23	52.68	54.00	-1.32
5355.40	Peak	60.62	5.23	65.85	74.00	-8.15

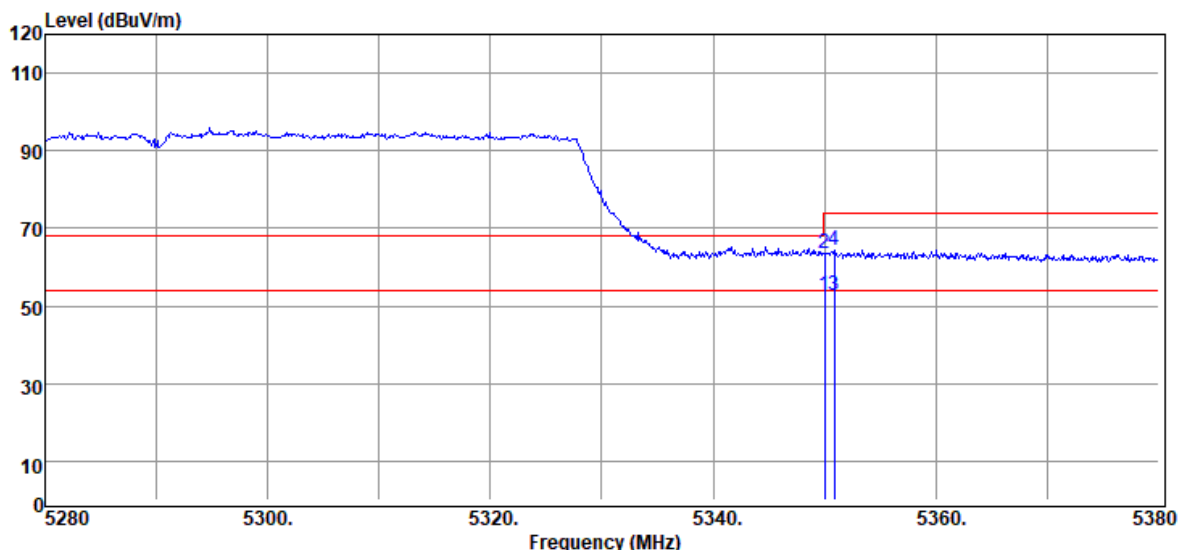
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 2
 Fundamental Frequency :5290 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Average	47.73	5.21	52.94	54.00	-1.06
5350.00	Peak	58.15	5.21	63.36	74.00	-10.64
5350.90	Average	47.49	5.22	52.71	54.00	-1.29
5350.90	Peak	59.24	5.22	64.46	74.00	-9.54

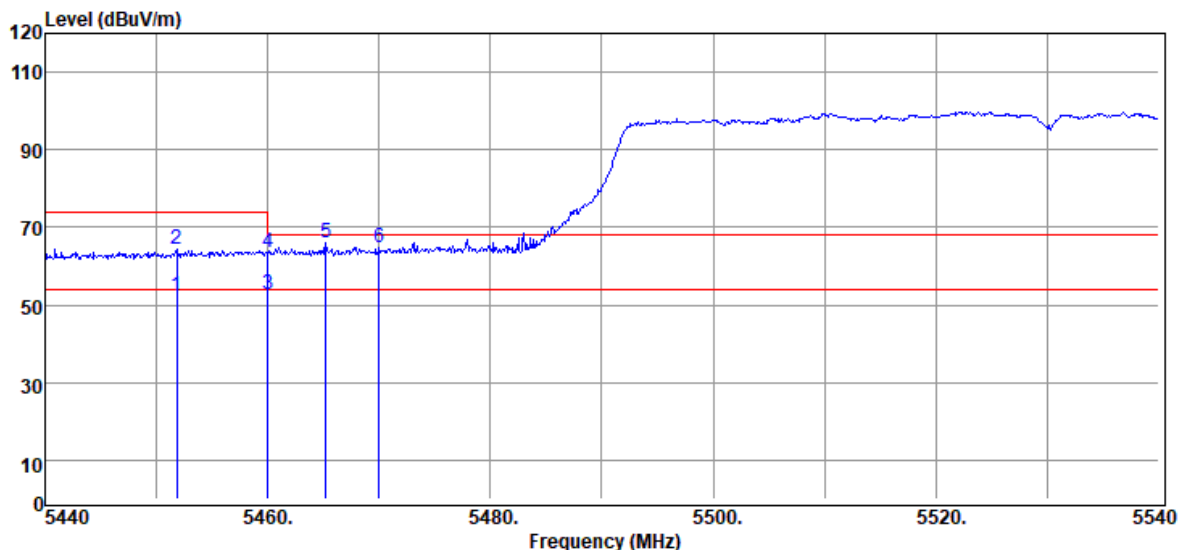
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頻帶外發射輻射量測值 (802.11ac VHT80) (5470MHz-5725MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11ac80 / Band 3	Temp./Humi.	:23/57
Fundamental Frequency	:5530 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5451.80	Average	46.66	5.61	52.27	54.00	-1.73
5451.80	Peak	58.94	5.61	64.55	74.00	-9.45
5460.00	Average	47.24	5.63	52.87	54.00	-1.13
5460.00	Peak	57.74	5.63	63.37	74.00	-10.63
5465.20	Peak	60.37	5.64	66.01	68.20	-2.19
5470.00	Peak	58.93	5.65	64.58	68.20	-3.62

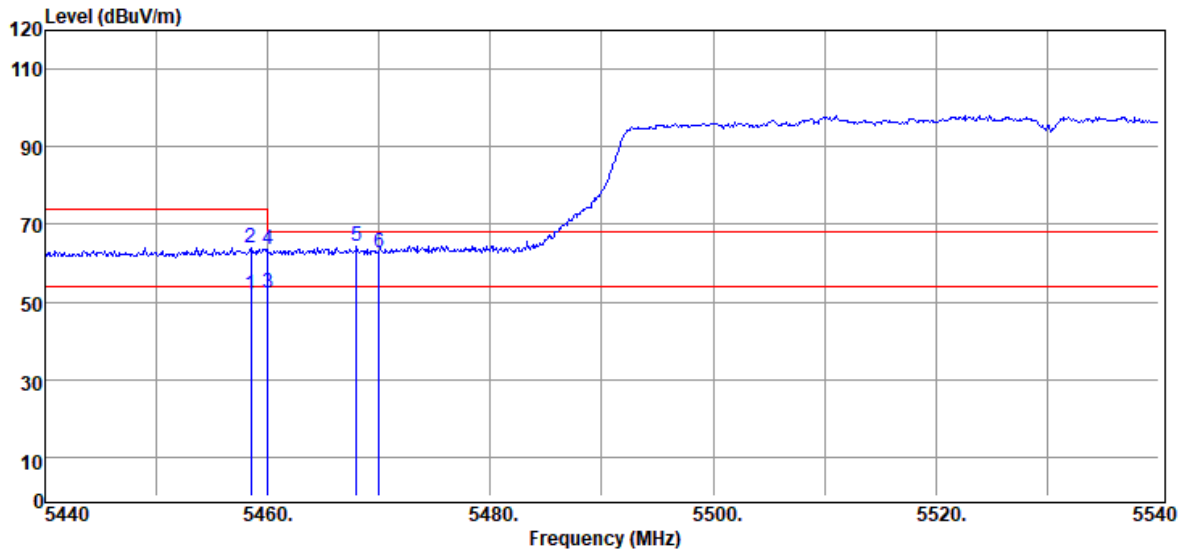
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 3
 Fundamental Frequency :5530 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5458.50	Average	46.44	5.62	52.06	54.00	-1.94
5458.50	Peak	58.29	5.62	63.91	74.00	-10.09
5460.00	Average	46.84	5.63	52.47	54.00	-1.53
5460.00	Peak	57.83	5.63	63.46	74.00	-10.54
5468.00	Peak	58.58	5.64	64.22	68.20	-3.98
5470.00	Peak	57.25	5.65	62.90	68.20	-5.30

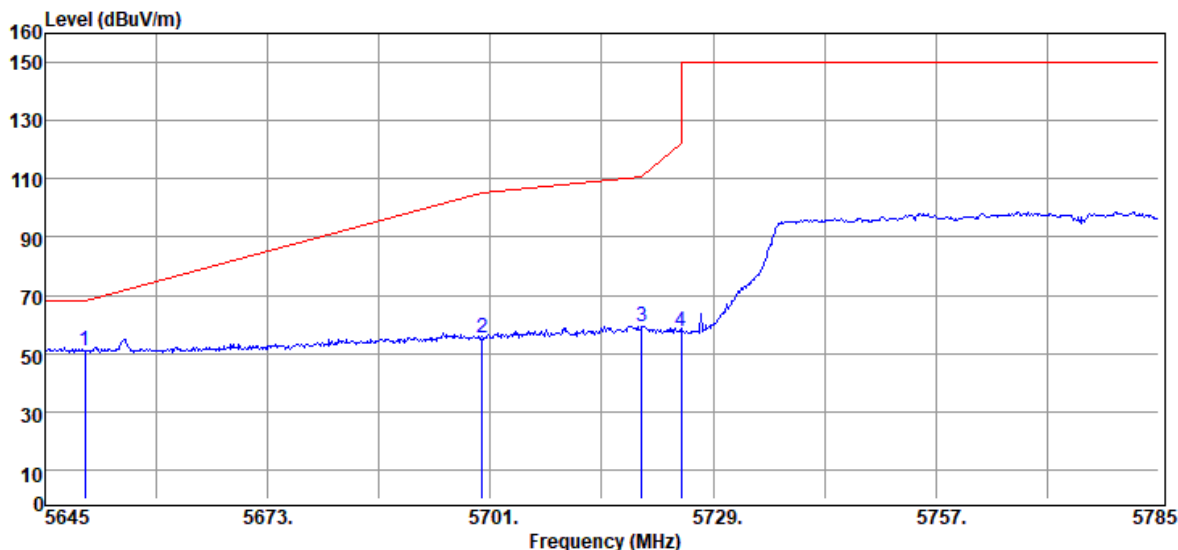
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頻帶外發射輻射量測值 (802.11ac VHT80) (5725MHz-5850MHz)

Report Number	:T190514W01	Test Date	:2019-06-12
Operation Band	:802.11ac80 / Band 4	Temp./Humi.	:23/57
Fundamental Frequency	:5775 MHz	Engineer	:Jerry
Operation Mode	:BE CH LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plan		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5650.00	Peak	45.16	6.04	51.20	68.20	-17.00
5700.00	Peak	48.87	6.32	55.19	105.20	-50.01
5720.00	Peak	52.76	6.33	59.09	110.80	-51.71
5725.00	Peak	50.99	6.34	57.33	122.20	-64.87

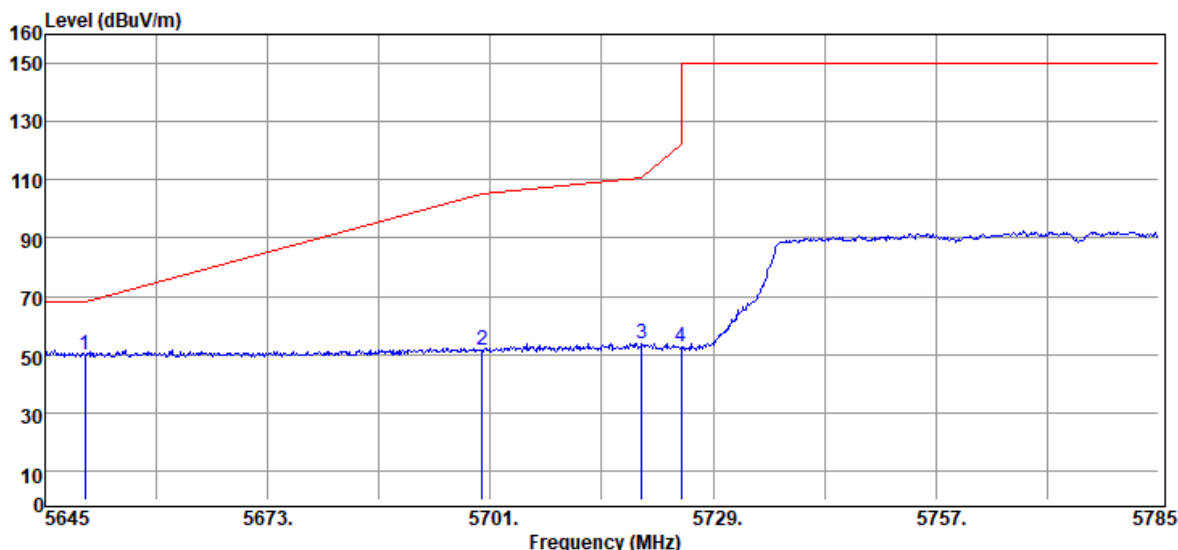
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 4
 Fundamental Frequency :5775 MHz
 Operation Mode :BE CH LOW
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	43.84	6.04	49.88	68.20	-18.32
5700.00	Peak	45.03	6.32	51.35	105.20	-53.85
5720.00	Peak	47.50	6.33	53.83	110.80	-56.97
5725.00	Peak	46.29	6.34	52.63	122.20	-69.57

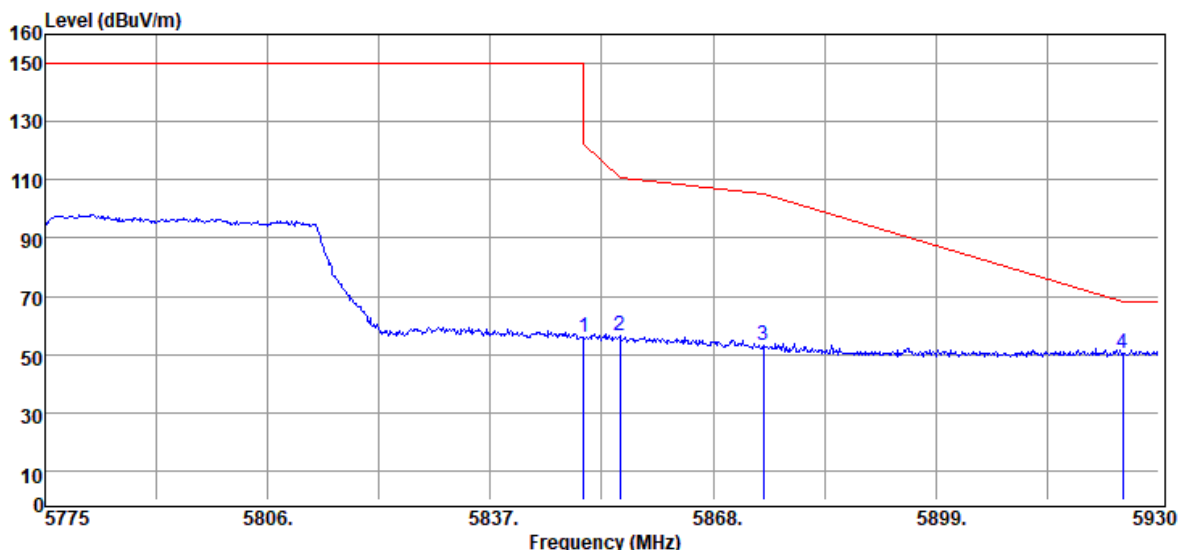
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 4
 Fundamental Frequency :5775 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.02	Peak	49.31	6.39	55.70	122.15	-66.45
5854.98	Peak	49.89	6.38	56.27	110.85	-54.58
5874.98	Peak	46.80	6.37	53.17	105.21	-52.04
5925.04	Peak	44.20	6.42	50.62	68.20	-17.58

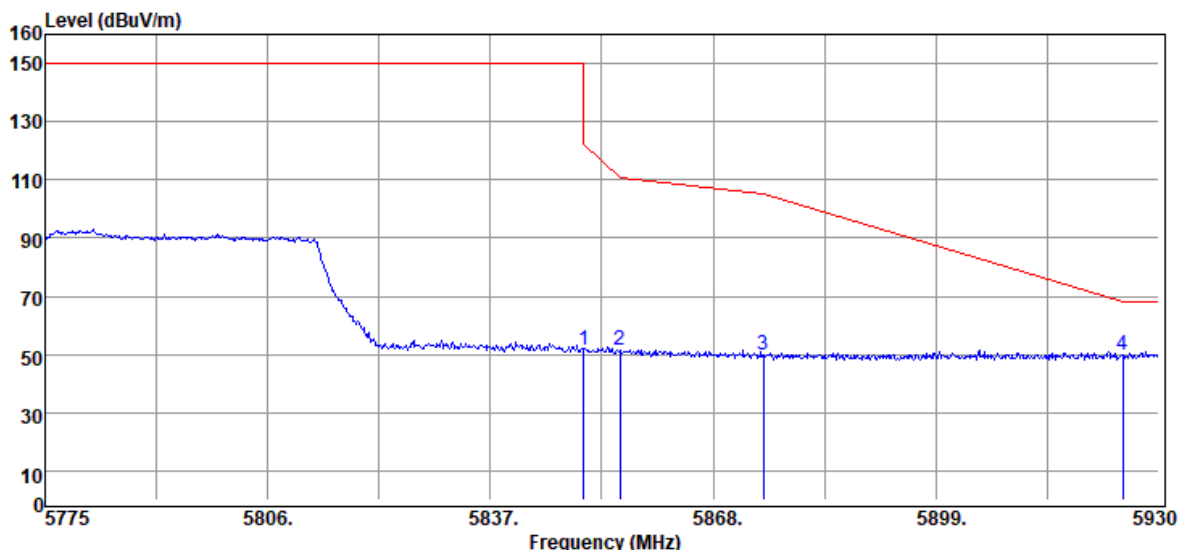
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Report Number :T190514W01
 Operation Band :802.11ac80 / Band 4
 Fundamental Frequency :5775 MHz
 Operation Mode :BE CH HIGH
 EUT Pol. :H Plan

Test Date :2019-06-12
 Temp./Humi. :23/57
 Engineer :Jerry
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	45.02	6.39	51.41	122.20	-70.79
5855.00	Peak	45.24	6.38	51.62	110.80	-59.18
5875.00	Peak	43.46	6.37	49.83	105.20	-55.37
5925.00	Peak	43.59	6.42	50.01	68.20	-18.19

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7 天線增益之要求

7.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，

4.7.3.1 使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

(C) 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。

(D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

(C) 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) 供固定式點對點操作使用：

(C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 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。

(D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

(C) 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。

4.7.3.2 使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

(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。

4.7.3.3 使用頻率於5.725 GHz~5.850 GHz 頻段

(3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。

(4) 除(3)外，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 天線增益

此裝置使用天線如下，詳細規格請參考附件天線規格書。

天線型式	Supplier	Model No.	發射頻帶(MHz)	天線增益(dBi)
Monopole	N/A	N/A	5150~5250	1.67
			5250~5350	1.66
			5470~5725	1.60
			5725~5850	1.55

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8 26DB & 6DB 頻寬之測試

8.1 適用標準

(1) 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。

(2) 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 26dB 發射頻寬，兩者取較小者。

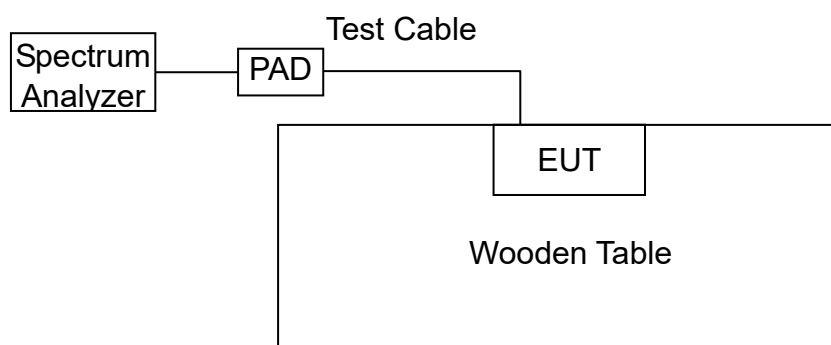
解析頻寬小於(1)或(2)時，應以補償方式計算總功率頻譜密度。

8.2 量測方法

將發射機之天線埠經由適當之衰減直接連至測試儀器。

設定儀器之解析頻寬為 100KHz, 視訊頻寬 $\geq$ 解析頻寬, 頻率掃描範圍(span)大於解析頻寬

8.3 測試配置



*註: 經評估後，比較 802.11n20 / n40 和 802.11ac20 / ac40 測試值後發現 802.11n20 / n40 為最差模式，故附上最差模式 802.11n20 / n40 數據。

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8.4 量測結果

測試設備: 谷歌眼鏡企業版 2

型號: GG2

解析頻寬: 100 kHz

視頻頻寬: 300 kHz

Span: a/n20/ac20: 50MHz, n40/ac40: 60MHz,
ac80: 100MHz

環境濕度: 52%

環境溫度: 27°C

測試者: 謝秉峰 / 工程師

26dB**802.11a_Ch0**

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.96	13.41632336
5220	21.29	13.28175661
5240	21.29	13.28175661
5260	21.97	13.41830057
5300	21.3	13.28379603
5320	21.31	13.2858345
5500	21.99	13.42225229
5580	21.31	13.2858345
5700	21.3	13.28379603
5720	21.42	13.30819466

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.27	13.2776749
5220	21.05	13.232521
5240	21.56	13.33648757
5260	21.05	13.232521
5300	21.28	13.27971624
5320	22.55	13.53146546
5500	20.81	13.1827208
5580	21.09	13.2407658
5700	20.98	13.21805484
5720	22.03	13.43014497

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802.11n _HT40_ Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.6	16.08526034
5230	40.87	16.11404638
5270	39.5	15.96597096
5310	40.34	16.05735894
5510	40.81	16.10766595
5550	40.83	16.1097938
5670	41.12	16.14053106
5710	40.82	16.10873

802.11ac _VHT80_ Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.64	19.22414024
5290	82.32	19.15505362
5530	82.75	19.17768002
5610	83.08	19.19496488
5690	82.76	19.17820482

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6dB

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.35	11.8610838
5785	15.45	11.88928484
5825	12.85	11.08903128

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.05	12.05475037
5785	16.34	12.13252052
5825	17.55	12.44277121

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.21	15.46666025
5795	35.91	15.55215405

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.24	18.76448787

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BW Band-Crossing Signals

802.11a_Ch0

Frequency (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.19	< 5250
5745	5736.75	> 5725

802.11n_HT20_Ch0

Frequency (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.79	< 5250
5745	5736.15	> 5725

802.11n_HT40_Ch0

Frequency (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.85	> 5725

802.11ac_VHT80_Ch0

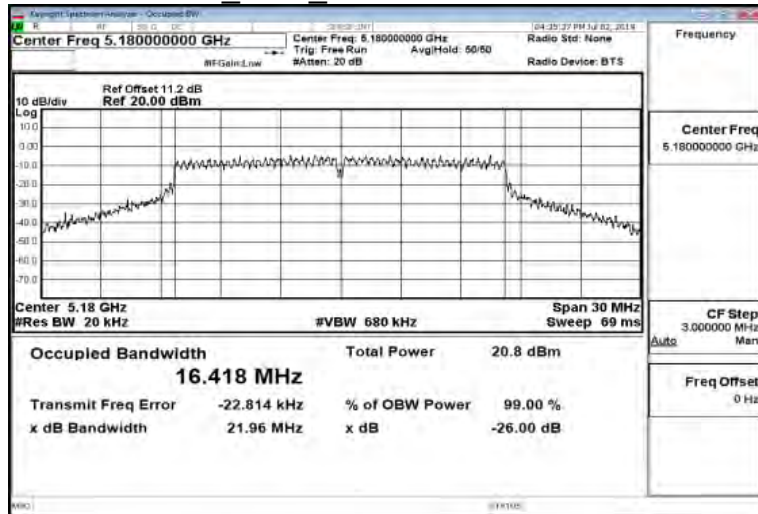
Frequency (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.90	< 5250
5775	5737.10	> 5725

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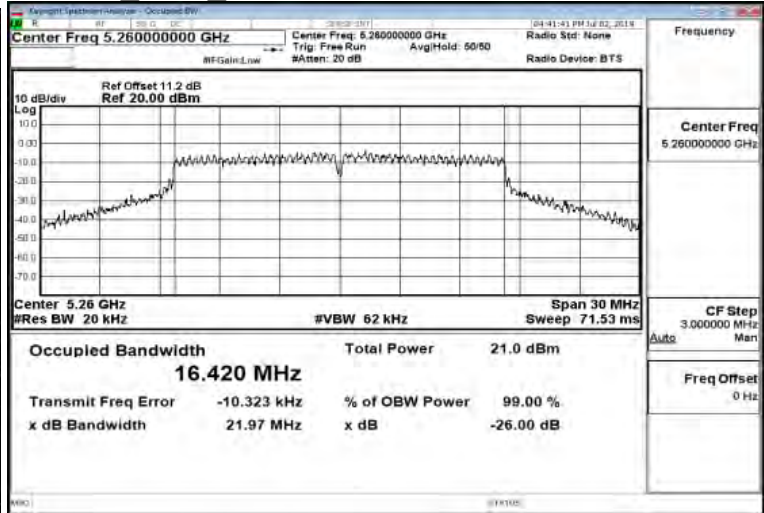
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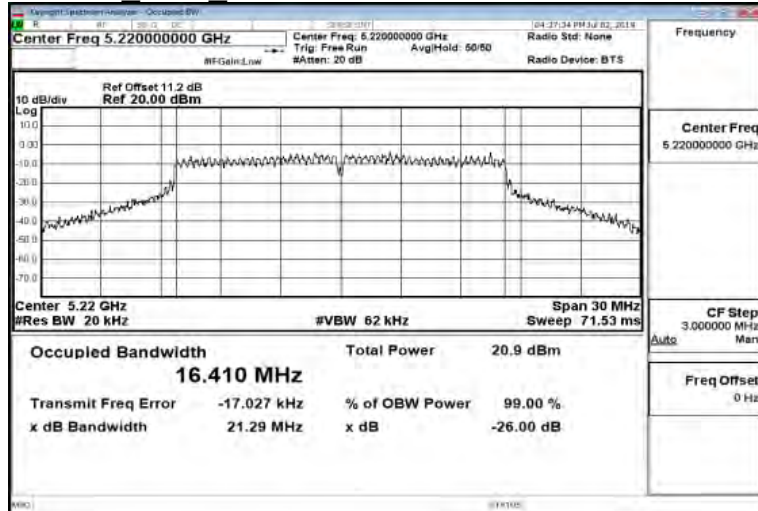
26dB 802.11a Main 5180MHz



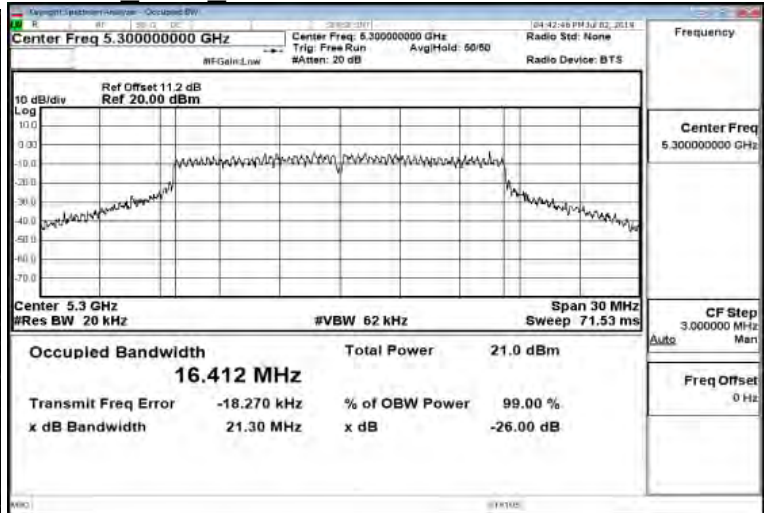
802.11a Main 5260MHz



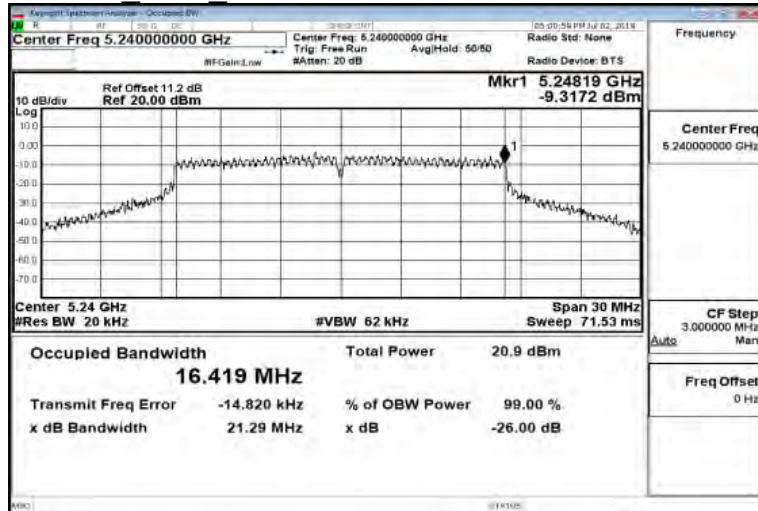
802.11a Main 5220MHz



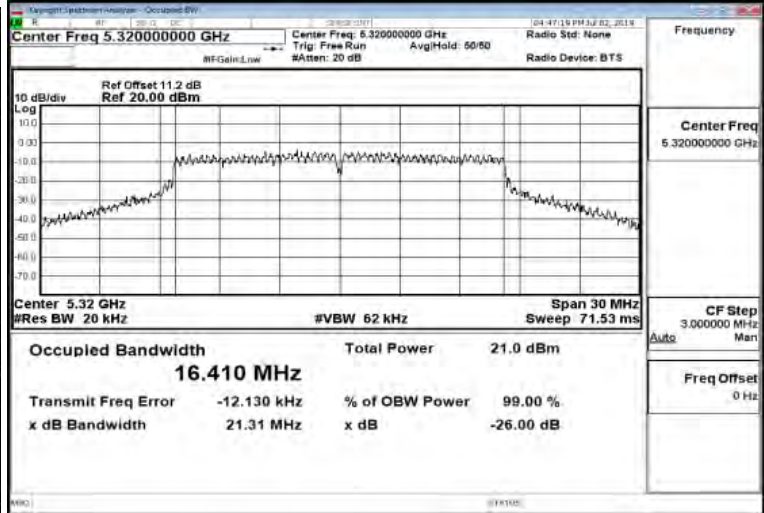
802.11a Main 5300MHz



802.11a Main 5240MHz



802.11a Main 5320MHz

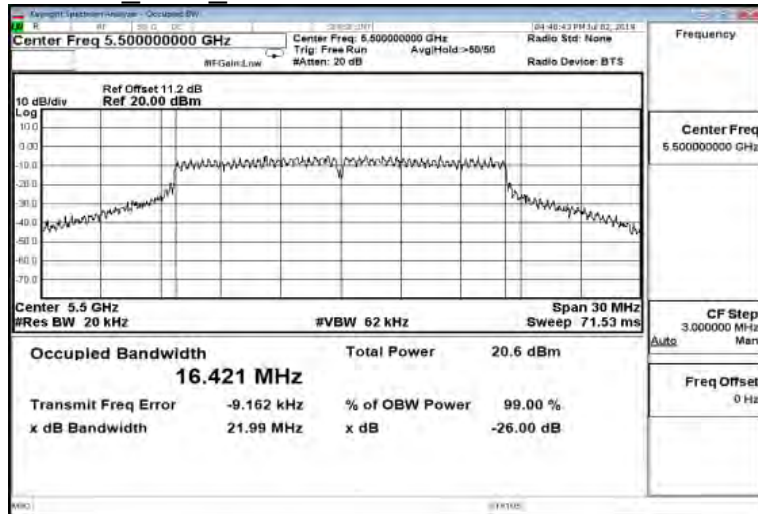


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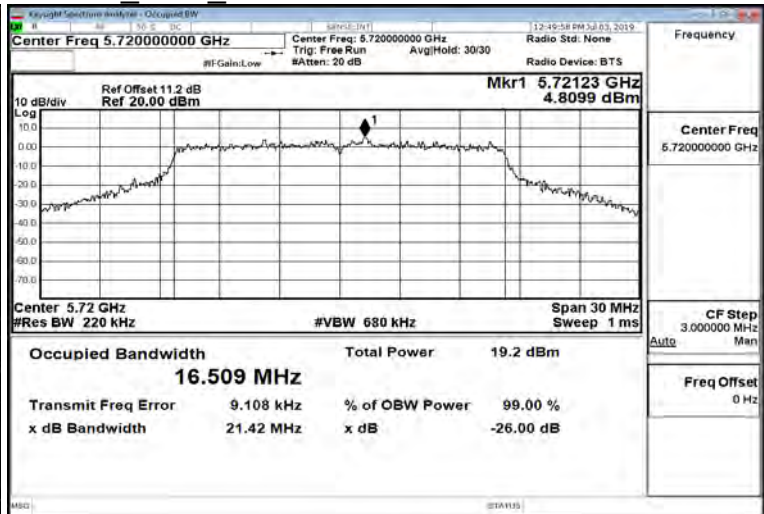
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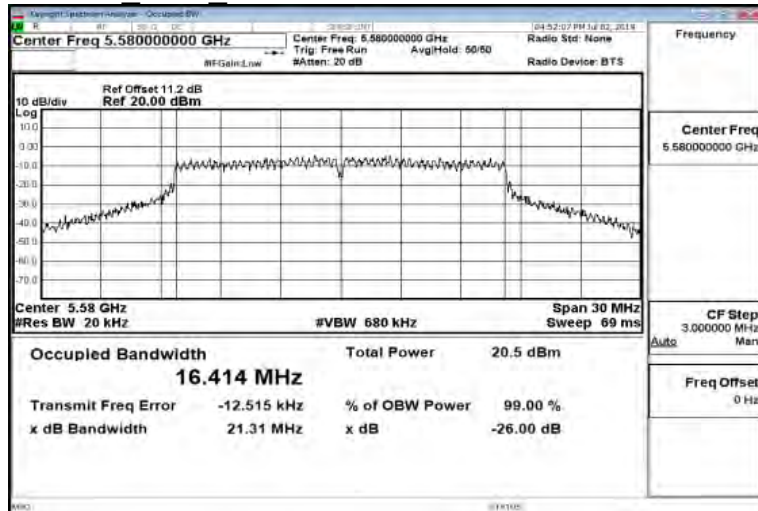
802.11a Main 5500MHz



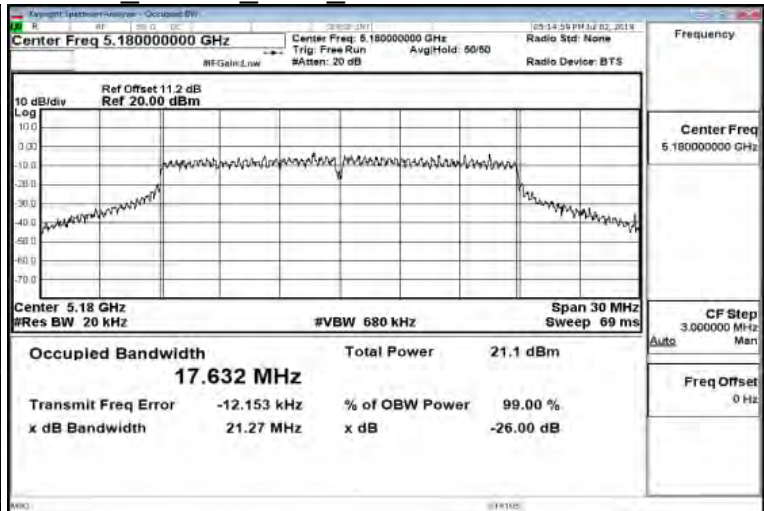
802.11a Main 5720MHz



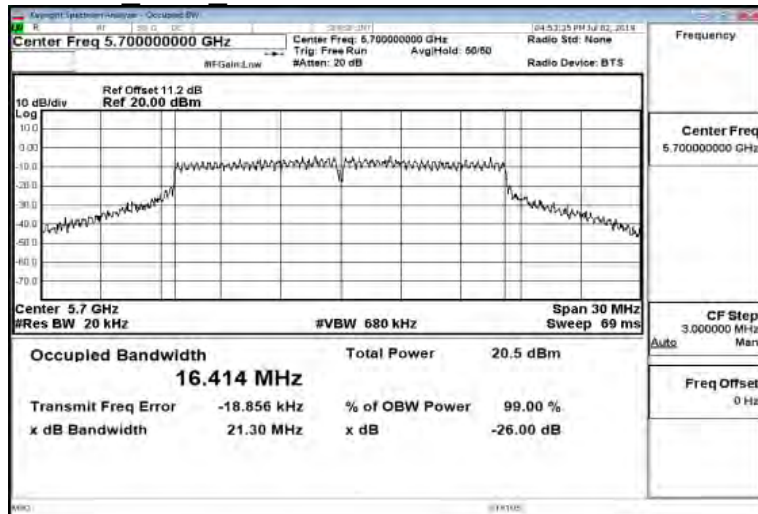
802.11a Main 5580MHz



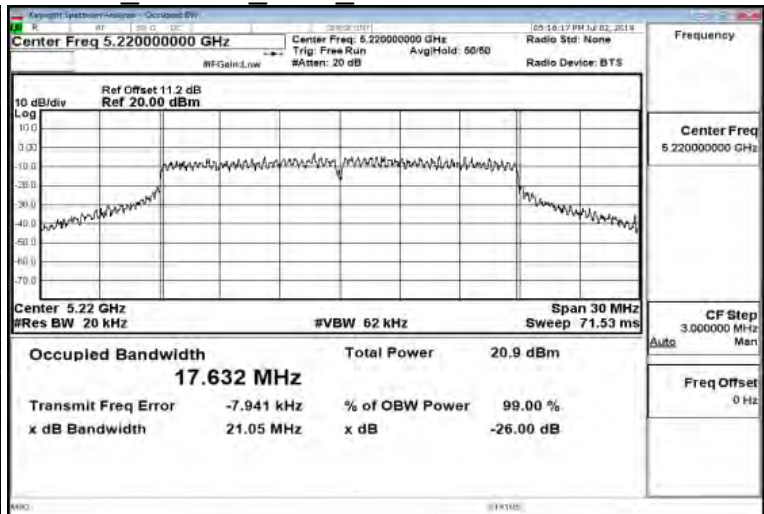
802.11n 20MHz Main 5180MHz



802.11a Main 5700MHz



802.11n 20MHz Main 5220MHz

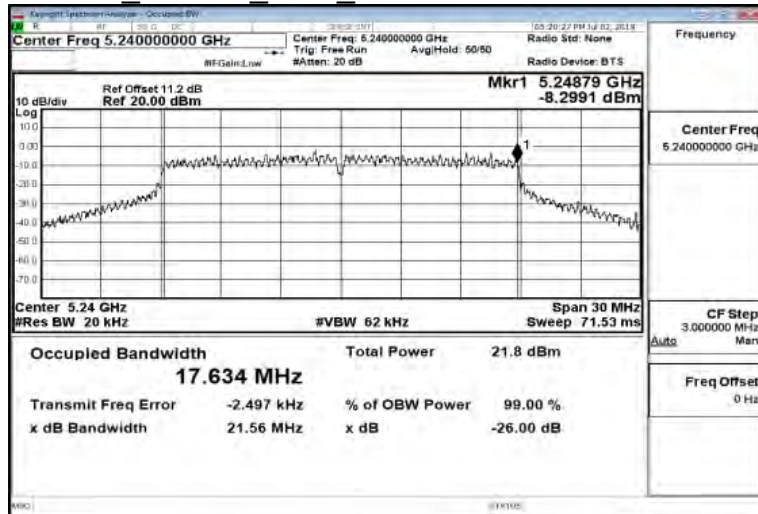


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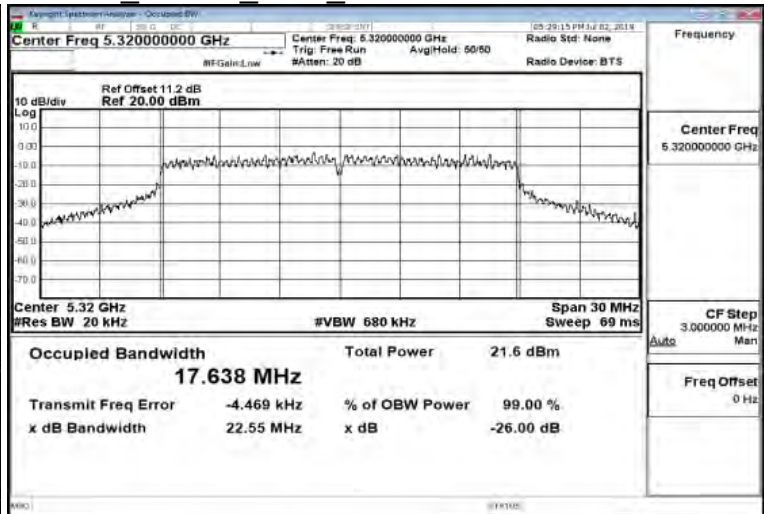
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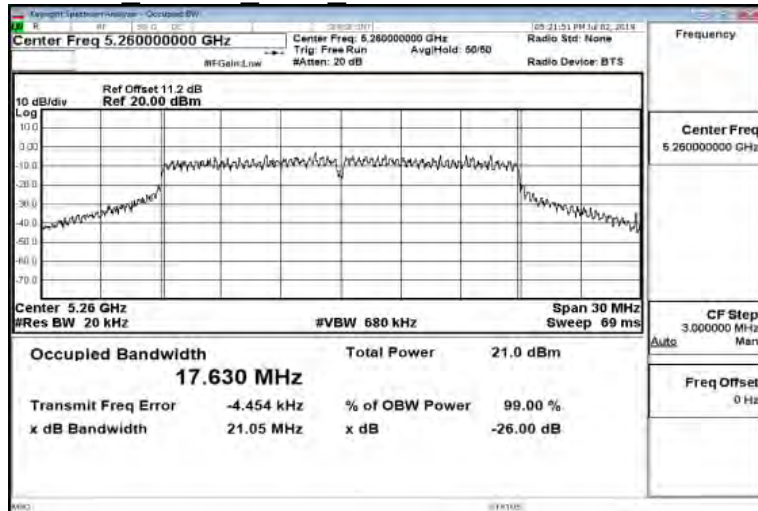
802.11n 20MHz Main 5240MHz



802.11n 20MHz Main 5320MHz



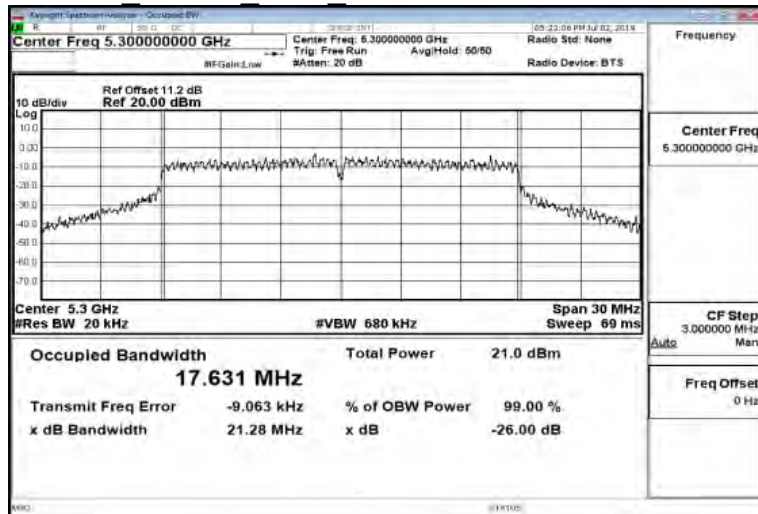
802.11n 20MHz Main 5260MHz



802.11n 20MHz Main 5500MHz



802.11n 20MHz Main 5300MHz



802.11n 20MHz Main 5580MHz

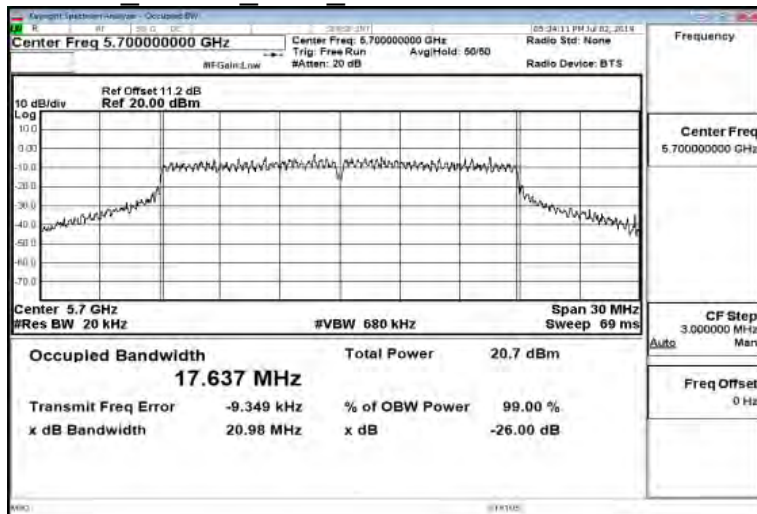


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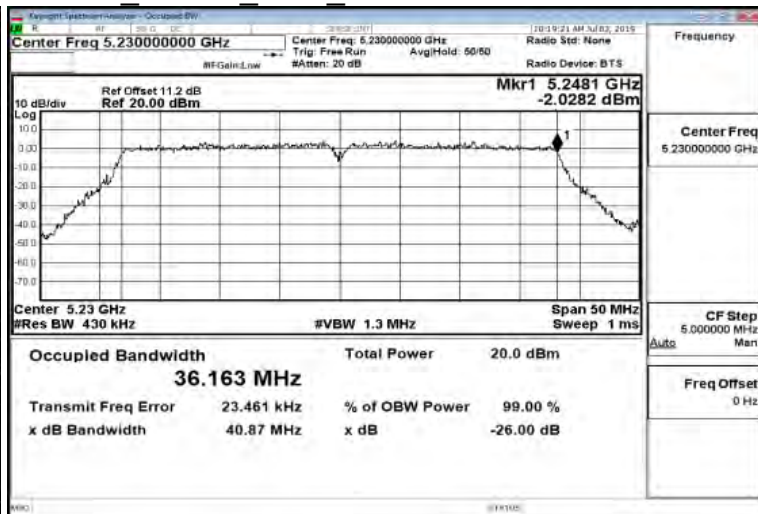
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802.11n 20MHz Main 5700MHz



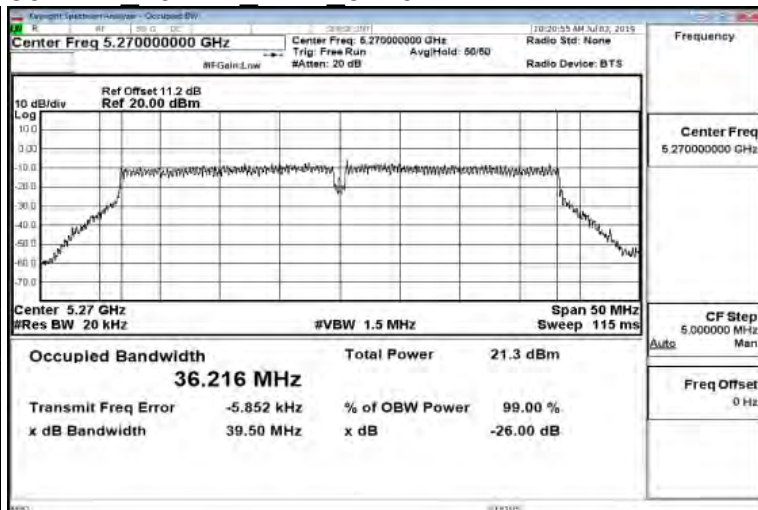
802.11n 40MHz Main 5230MHz



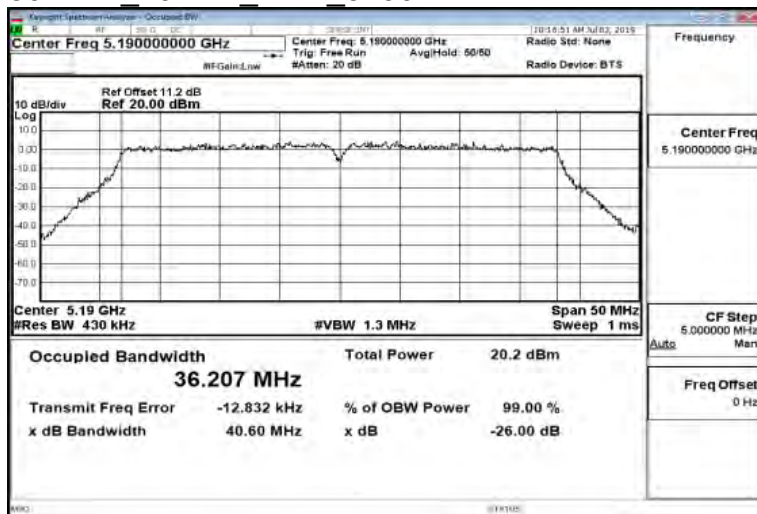
802.11n 20MHz Main 5720MHz



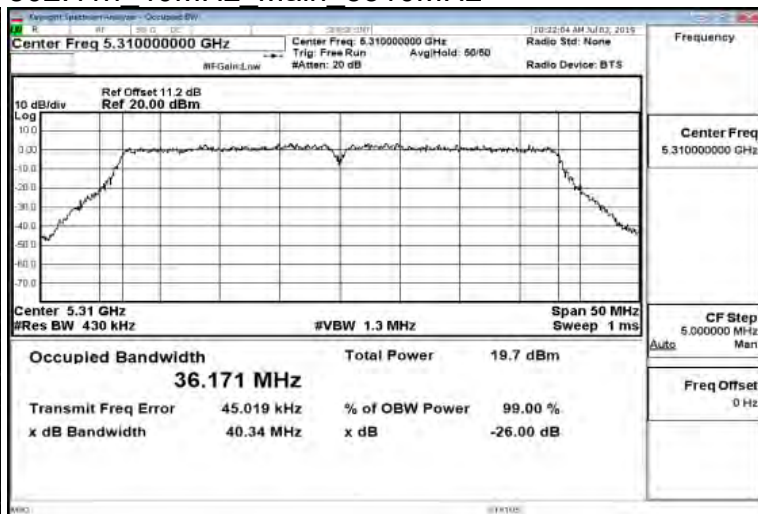
802.11n 40MHz Main 5270MHz



802.11n 40MHz Main 5190MHz



802.11n 40MHz Main 5310MHz

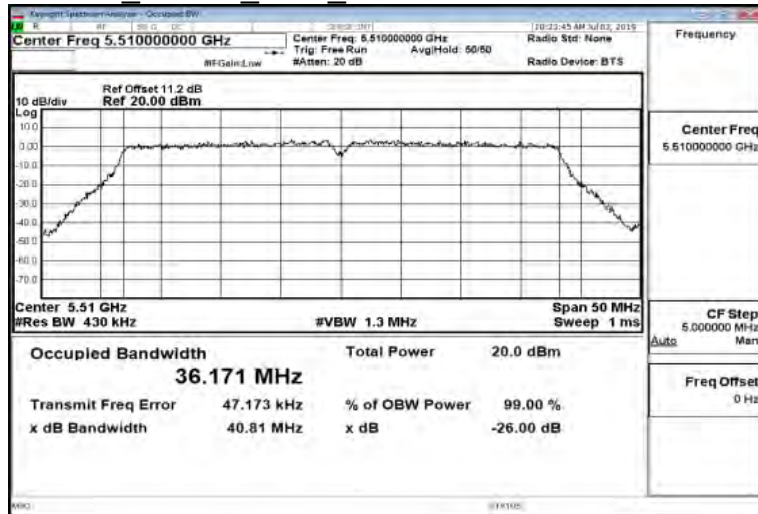


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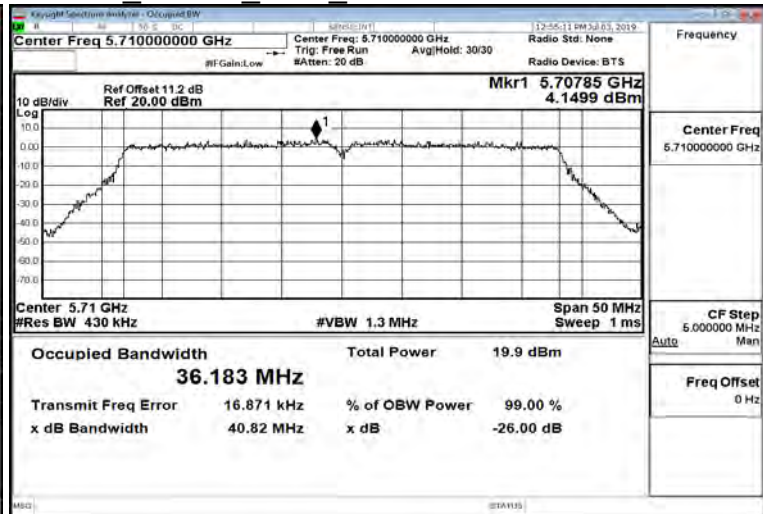
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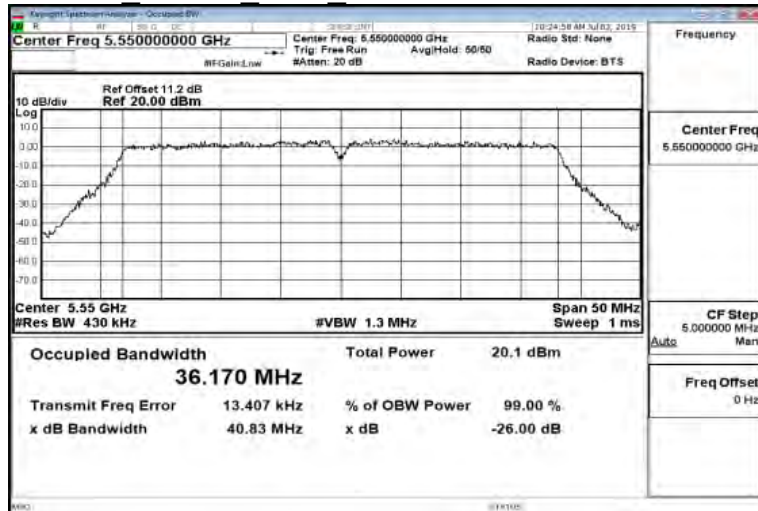
802.11n 40MHz Main 5510MHz



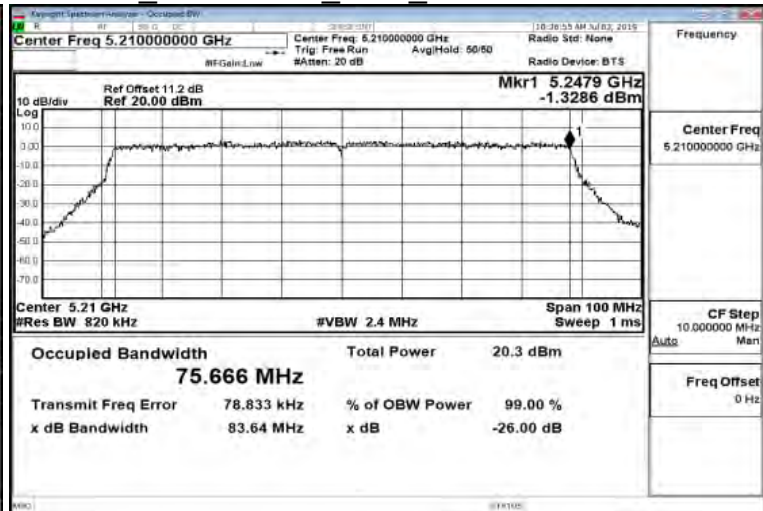
802.11n 40MHz Main 5710MHz



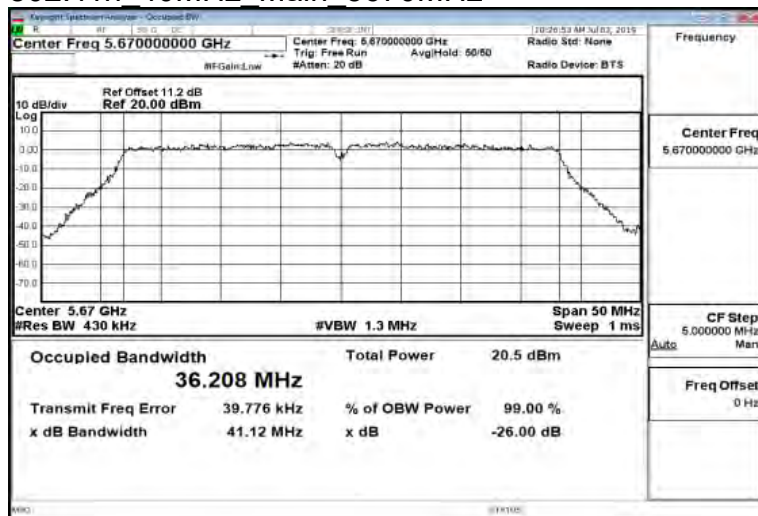
802.11n 40MHz Main 5550MHz



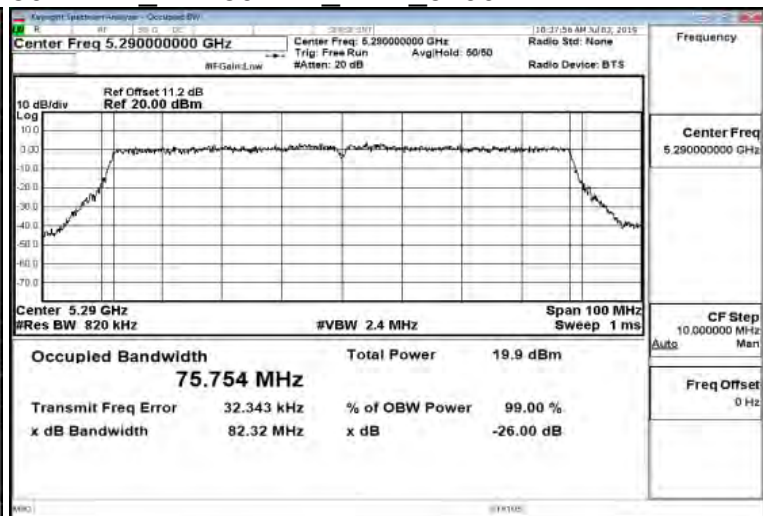
802.11ac VHT80MHz Main 5210MHz



802.11n 40MHz Main 5670MHz



802.11ac VHT80MHz Main 5290MHz

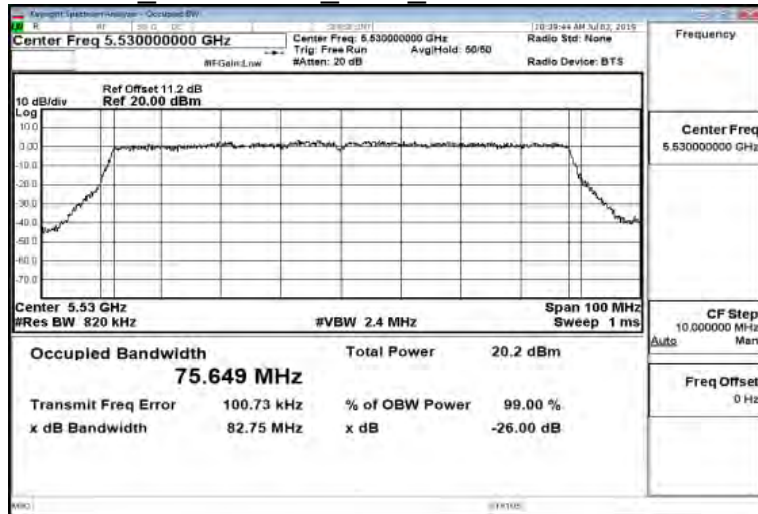


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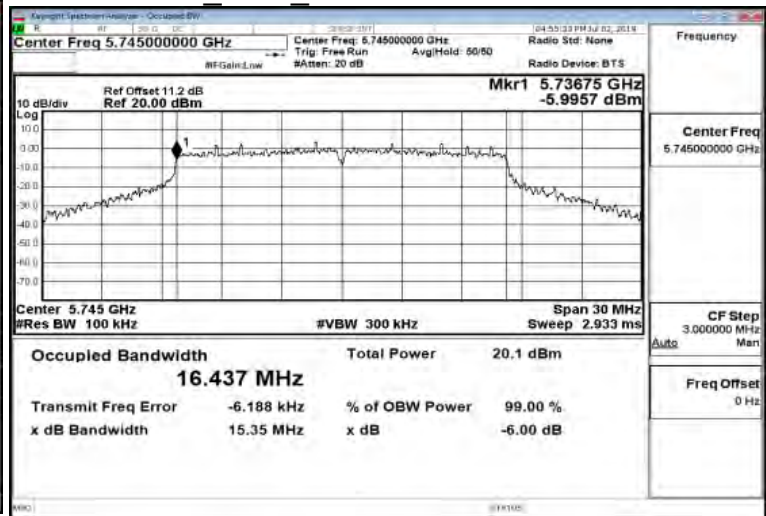
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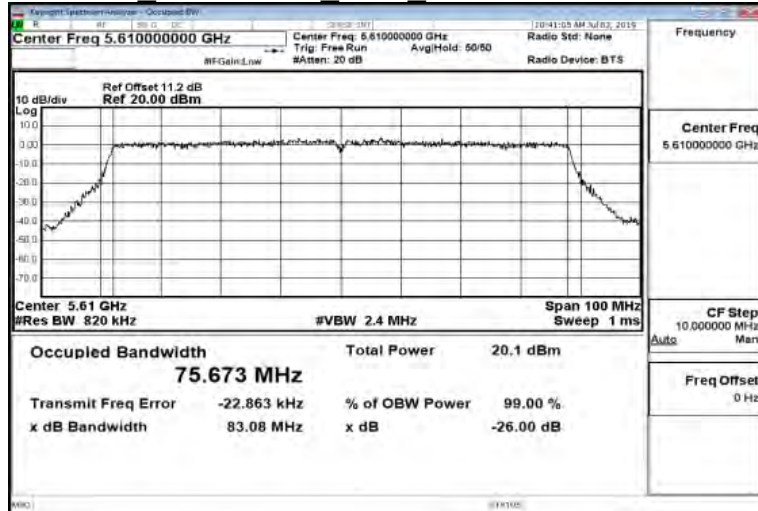
802.11ac VHT80MHz Main 5530MHz



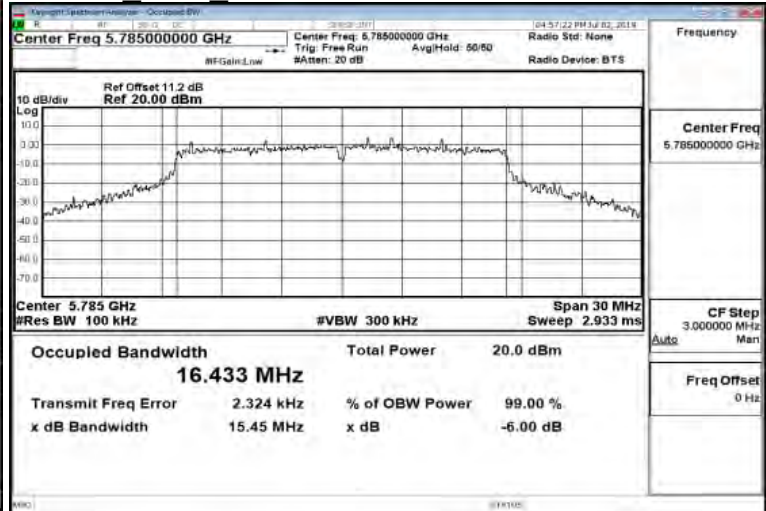
6dB 802.11a Main 5745MHz



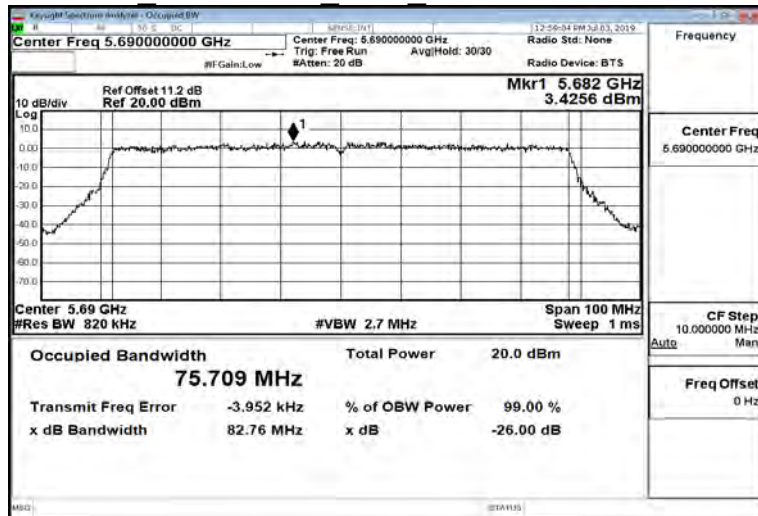
802.11ac VHT80MHz Main 5610MHz



802.11a Main 5785MHz



802.11ac VHT80MHz Main 5690MHz



802.11a Main 5825MHz

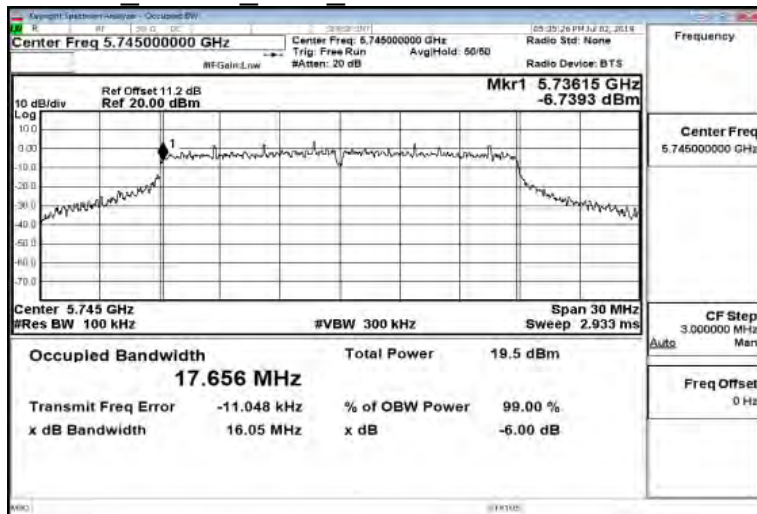


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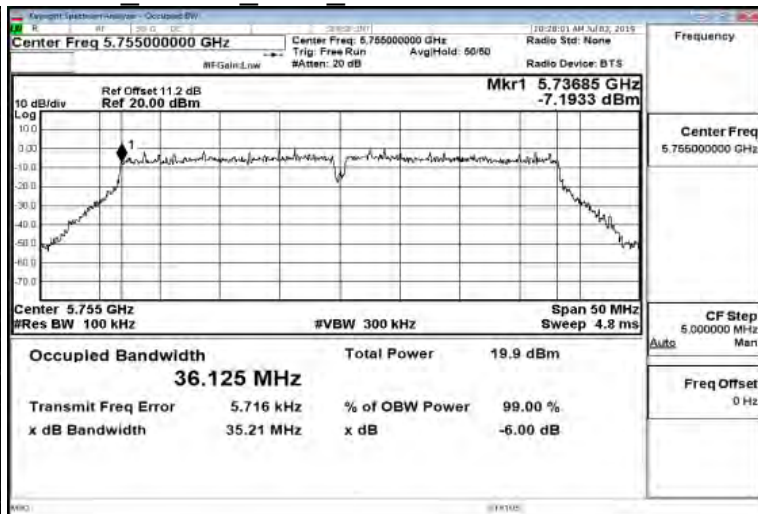
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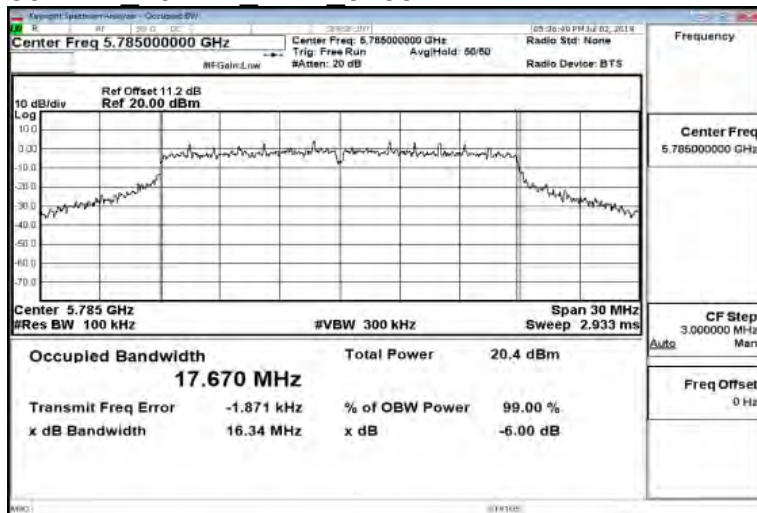
802.11n 20MHz Main 5745MHz



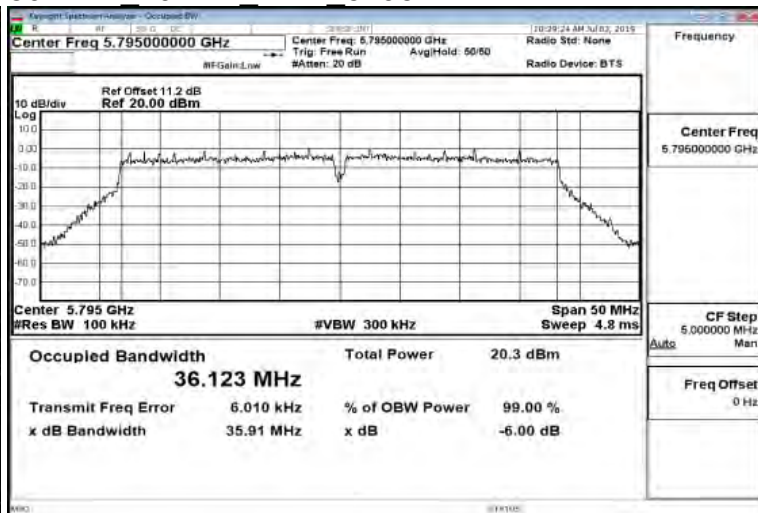
802.11n 40MHz Main 5755MHz



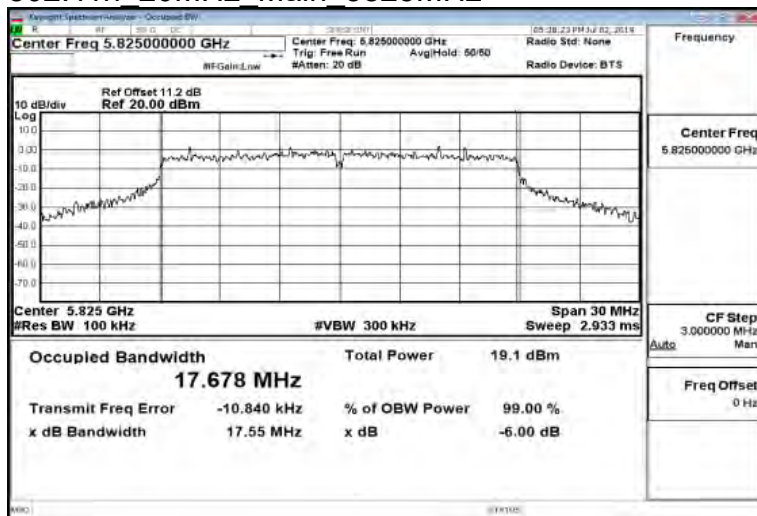
802.11n 20MHz Main 5785MHz



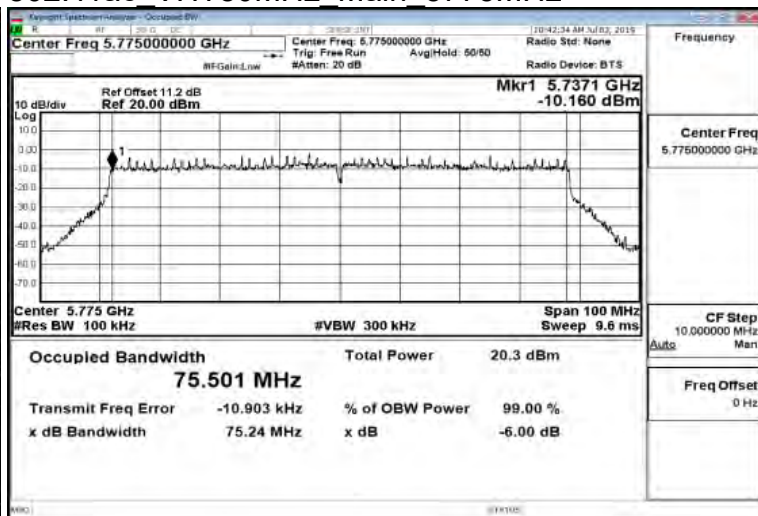
802.11n 40MHz Main 5795MHz



802.11n 20MHz Main 5825MHz



802.11ac VHT80MHz Main 5775MHz



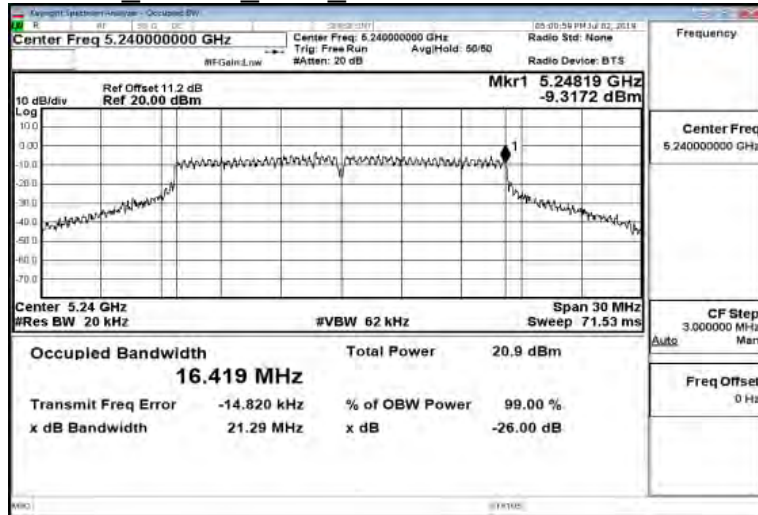
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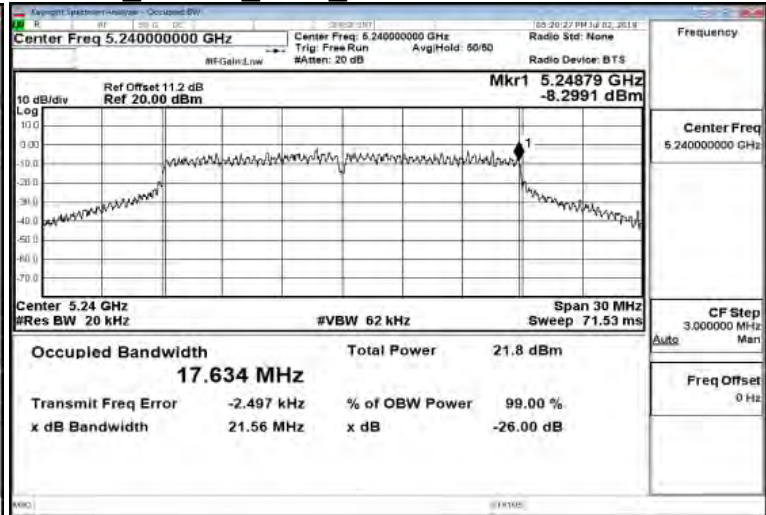
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BW Band-Crossing Signals

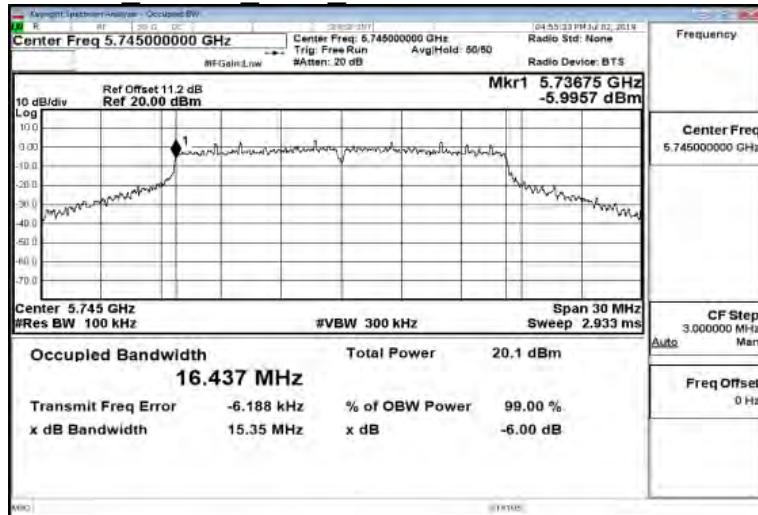
802.11a 20MHz Main 5240MHz



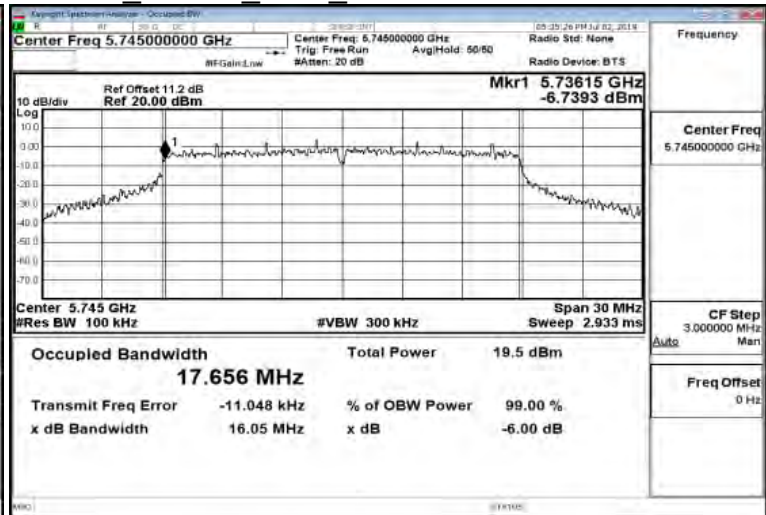
802.11n 20MHz Main 5240MHz



802.11a 20MHz Main 5745MHz



802.11n 20MHz Main 5745MHz

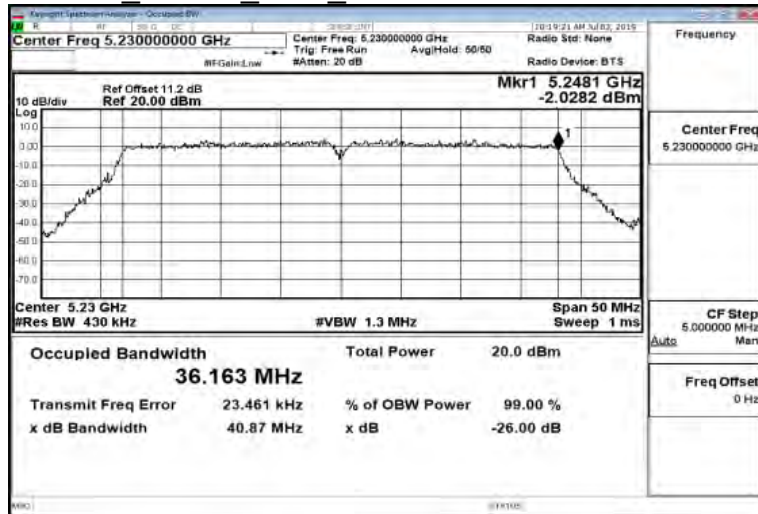


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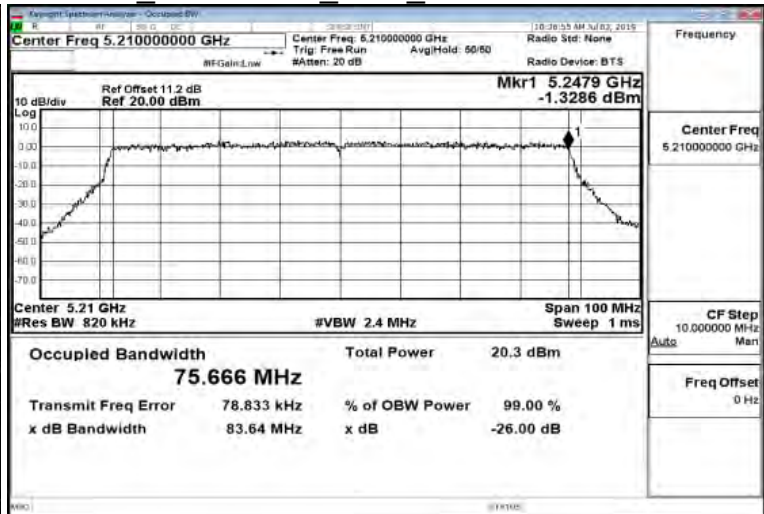
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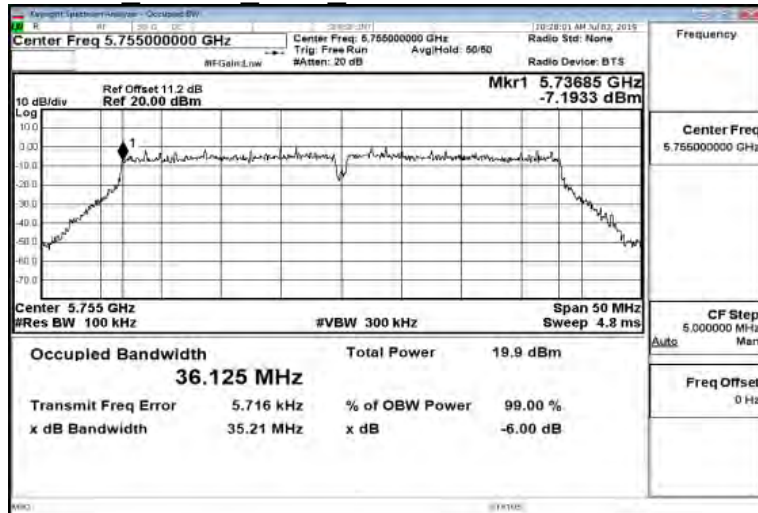
802.11n 40MHz Main 5230MHz



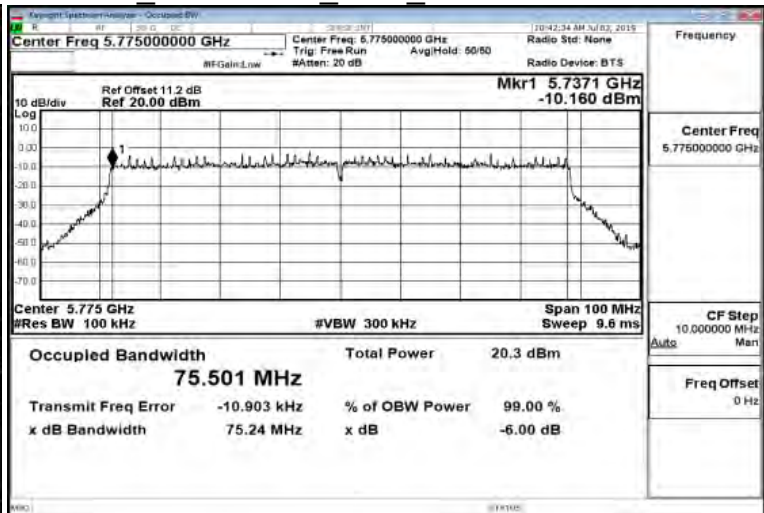
802.11ac VHT80MHz Main 5210MHz



802.11n 40MHz Main 5755MHz



802.11ac VHT80MHz Main 5775MHz



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9 輸出峰值功率之量測

9.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 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。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 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。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或 $11\text{dBm}+10\log B$ (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功率及最大功率頻譜密度。

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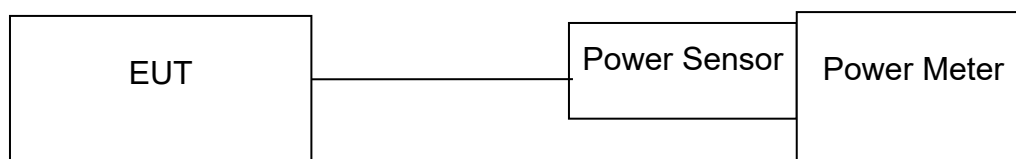
使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，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。

9.2 測試方法

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$ ($x=0.99$), 0.04 approximately
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 輸出功率之測試配置



9.4 量測儀器設備

同本報告 4.3 節傳導配置圖

*註: 經評估後，比較 802.11n20 / n40 和 802.11ac20 / ac40 測試值後發現 802.11n20 / n40 為最差模式，故附上最差模式 802.11n20 / n40 數據。

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9.5 輸出功率之量測結果

測試設備: 谷歌眼鏡企業版 2

6dB 頻寬: 1MHz

Span: 30MHz/60MHz

環境溫度: 27°C

測試者: 謝秉峰 / 工程師

型號: GG2

視頻頻寬: 3MHz

測試日期: 07/02/2019

環境濕度: 52%

CH	Freq. (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.79	23.98	PASS
44	5220	6	12.80	23.98	PASS
48	5240	6	12.64	23.98	PASS
52	5260	6	12.78	23.98 or $11+10\log(B) = 24.42$	PASS
60	5300	6	12.96	23.98 or $11+10\log(B) = 24.28$	PASS
64	5320	6	12.98	23.98 or $11+10\log(B) = 24.29$	PASS
100	5500	6	12.62	23.98 or $11+10\log(B) = 24.42$	PASS
116	5580	6	12.59	23.98 or $11+10\log(B) = 24.29$	PASS
140	5700	6	12.57	23.98 or $11+10\log(B) = 24.28$	PASS
144	5720(U-NII 2C)	6	11.52	23.98 or $11+10\log(B) = 24.31$	PASS
144	5720 (U-NII 3)	6	7.13	30	PASS
149	5745	6	12.86	30	PASS
157	5785	6	12.99	30	PASS
165	5825	6	12.87	30	PASS

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802.11n_HT20_Ch0

CH	Freq. (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12.65	23.98	PASS
44	5220	MCS0	12.61	23.98	PASS
48	5240	MCS0	12.97	23.98	PASS
52	5260	MCS0	12.57	23.98 or $11+10\log(B) = 24.23$	PASS
60	5300	MCS0	12.72	23.98 or $11+10\log(B) = 24.28$	PASS
64	5320	MCS0	12.77	23.98 or $11+10\log(B) = 24.53$	PASS
100	5500	MCS0	12.89	23.98 or $11+10\log(B) = 24.18$	PASS
116	5580	MCS0	12.77	23.98 or $11+10\log(B) = 24.24$	PASS
140	5700	MCS0	12.98	23.98 or $11+10\log(B) = 24.22$	PASS
144	5720(U-NII 2C)	6	11.48	23.98 or $11+10\log(B) = 24.43$	PASS
144	5720 (U-NII 3)	6	7.23	30	PASS
149	5745	MCS0	12.72	30	PASS
157	5785	MCS0	12.95	30	PASS
165	5825	MCS0	12.74	30	PASS

802.11n_HT40_Ch0

CH	Freq. (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12.91	23.98	PASS
46	5230	MCS0	12.67	23.98	PASS
54	5270	MCS0	12.91	23.98 or $11+10\log(B) = 26.97$	PASS
62	5310	MCS0	12.98	23.98 or $11+10\log(B) = 27.06$	PASS
102	5510	MCS0	12.98	23.98 or $11+10\log(B) = 27.11$	PASS
110	5550	MCS0	12.97	23.98 or $11+10\log(B) = 27.11$	PASS
134	5670	MCS0	12.99	23.98 or $11+10\log(B) = 27.14$	PASS
142	5710(U-NII 2C)	MCS0	12.25	23.98 or $11+10\log(B) = 27.11$	PASS
142	5710 (U-NII 3)	MCS0	4.09	30	PASS
151	5755	MCS0	12.96	30	PASS
159	5795	MCS0	12.97	30	PASS

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802.11ac_VHT80_Ch0

CH	Freq. (MHz)	Data Rate	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	12.65	23.98	PASS
58	5290	MCS0	12.76	23.98 or $11+10\log(B) = 30.16$	PASS
106	5530	MCS0	12.91	23.98 or $11+10\log(B) = 30.18$	PASS
122	5610	MCS0	12.78	23.98 or $11+10\log(B) = 30.19$	PASS
138	5690(U-NII 2C)	MCS0	12.52	23.98 or $11+10\log(B) = 30.18$	PASS
138	5690 (U-NII 3)	MCS0	1.74	30	PASS
155	5775	MCS0	12.85	30	PASS

Note:

offset 11.20 dB

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10 功率密度之限制

10.1 適用標準

依據NCC低功率射頻電機技術規範4.7.3節之要求，使用於5.15 GHz~5.25 GHz 頻段

(1) 供戶外操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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。
- (D) 在水平面仰角超過30 度時，其最大EIRP 應小於或等於21 dBm。

(2) 供室內操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 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) 供固定式點對點操作使用：

- (A) 最大傳導輸出功率應小於或等於1 W。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於17 dBm。
- (C) 使用超過23 dBi方向增益之指向性天線時，應依超過23 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。
- (D) 固定式點對點操作，不包括點對多點系統、全方向性應用及多台共站發射機傳送相同資訊。

(4) 供用戶端裝置(Client Device)操作使用：

- (A) 最大傳導輸出功率應小於或等於250 mW。
- (B) 在任何1 MHz 頻帶中最大功率頻譜密度應小於或等於11 dBm。
- (C) 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。

使用頻率於5.25 GHz~5.35 GHz 與5.470 GHz~5.725 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於250 mW或 $11\text{dBm}+10\log B$ (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功率及最大功率頻譜密度。

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使用頻率於5.725 GHz~5.850 GHz 頻段

- (1) 最大傳導輸出功率應小於或等於1 W。
- (2) 在任何500 kHz 頻帶中最大功率頻譜密度應小於或等於30 dBm。
- (3) 供固定式點對點操作時，使用方向增益超過6 dBi 之發射天線，可不需對應減少發射器之傳導輸出功率限制值。
- (4) 除(3)外，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。

10.2 測試方式

將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為 1 MHz，視訊頻寬大於解析頻寬，掃描時間為頻率掃描範圍除以 1 MHz。

10.3 測試配置

同本報告 8.3 節傳導配置圖

*註: 經評估後，比較 802.11n20 / n40 和 802.11ac20 / ac40 測試值後發現 802.11n20 / n40 為最差模式，故附上最差模式 802.11n20 / n40 數據。

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10.4 功率密度量測結果

測試設備: 谷歌眼鏡企業版 2

型號: GG2

解析頻寬: 1MHz

視頻頻寬: 3MHz

Span: 50MHz/80MHz/160MHz

環境濕度: 52%

環境溫度: 27°C

測試者: 謝秉峰 / 工程師

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	4.07	0.12	4.19	11.00	-6.81
5220	3.66	0.12	3.78	11.00	-7.22
5240	3.73	0.12	3.85	11.00	-7.15
5260	4.16	0.12	4.28	11.00	-6.72
5300	3.70	0.12	3.82	11.00	-7.18
5320	3.74	0.12	3.86	11.00	-7.14
5500	3.16	0.12	3.28	11.00	-7.72
5580	3.14	0.12	3.26	11.00	-7.74
5700	3.40	0.12	3.52	11.00	-7.48
5720 (U-NII 2C)	3.87	0.12	3.99	11.00	-7.01
5720 (U-NII 3)	-0.32	0.12	-0.20	30.00	-30.20
5745	0.47	0.12	0.59	30.00	-29.41
5785	0.81	0.12	0.93	30.00	-29.07
5825	0.50	0.12	0.62	30.00	-29.38

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POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.68	0.11	3.79	11.00	-7.21
5220	3.61	0.11	3.72	11.00	-7.28
5240	3.81	0.11	3.92	11.00	-7.08
5260	3.37	0.11	3.48	11.00	-7.52
5300	3.46	0.11	3.57	11.00	-7.43
5320	2.79	0.11	2.90	11.00	-8.10
5500	3.24	0.11	3.35	11.00	-7.65
5580	3.26	0.11	3.37	11.00	-7.63
5700	3.64	0.11	3.75	11.00	-7.25
5720 (U-NII 2C)	3.57	0.11	3.68	11.00	-7.32
5720 (U-NII 3)	-0.95	0.11	-0.84	30.00	-30.84
5745	0.35	0.11	0.46	30.00	-29.54
5785	1.21	0.11	1.32	30.00	-28.68
5825	-0.12	0.11	-0.01	30.00	-30.01

POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	0.18	0.24	0.42	11.00	-10.58
5230	0.03	0.24	0.27	11.00	-10.73
5270	0.18	0.24	0.42	11.00	-10.58
5310	-0.15	0.24	0.09	11.00	-10.91
5510	-0.15	0.24	0.09	11.00	-10.91
5550	0.62	0.24	0.86	11.00	-10.14
5670	0.04	0.24	0.28	11.00	-10.72
5710 (U-NII 2C)	0.38	0.24	0.62	11.00	-10.38
5710 (U-NII 3)	-4.27	0.24	-4.03	30.00	-34.03
5755	-2.77	0.24	-2.53	30.00	-32.53
5795	-2.68	0.24	-2.44	30.00	-32.44

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POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-3.38	0.46	-2.92	11.00	-13.92
5290	-3.86	0.46	-3.40	11.00	-14.40
5530	-3.58	0.46	-3.12	11.00	-14.12
5610	-3.60	0.46	-3.14	11.00	-14.14
5690 (U-NII 2C)	-3.66	0.46	-3.20	11.00	-14.20
5690 (U-NII 3)	-8.31	0.46	-7.85	30.00	-37.85
5775	-6.23	0.46	-5.77	30.00	-35.77

Note:

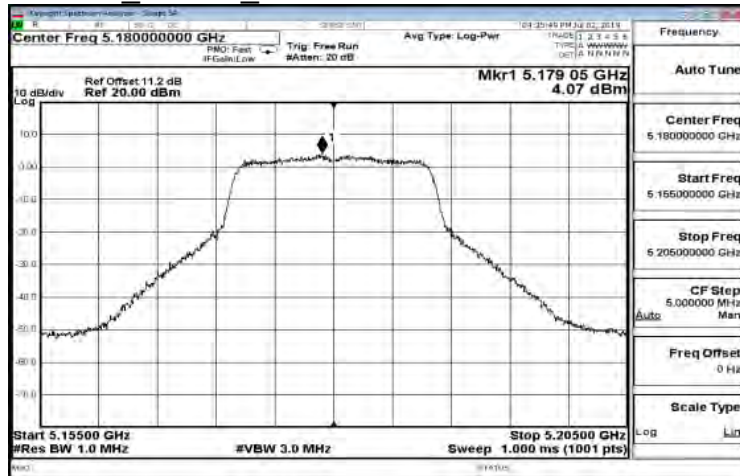
offset 11.20 dB

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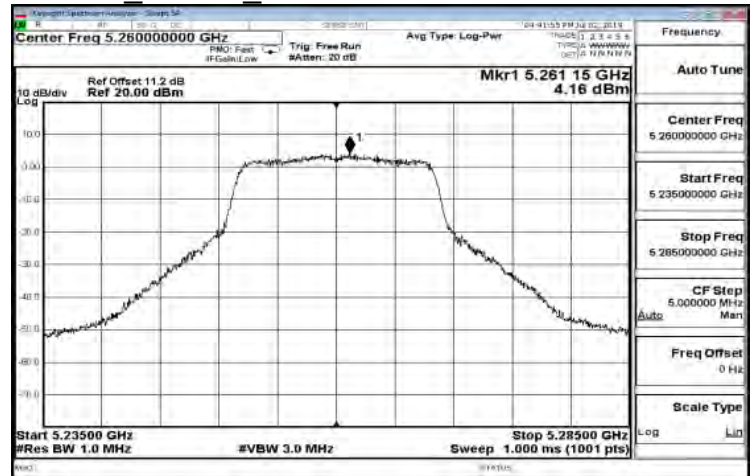
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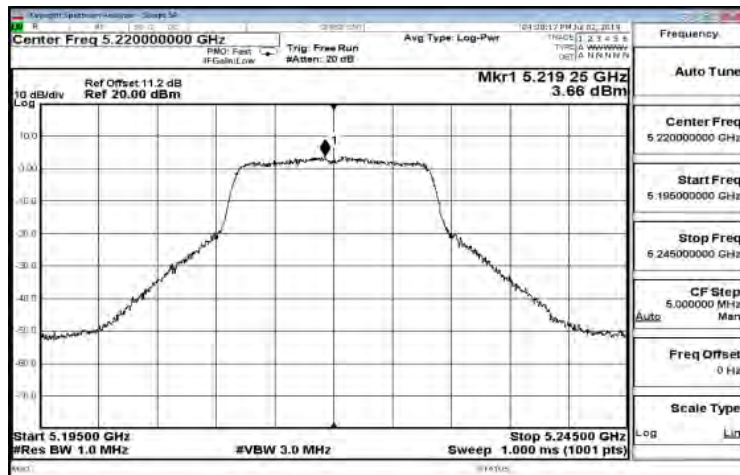
802.11a 20MHz 5180MHz



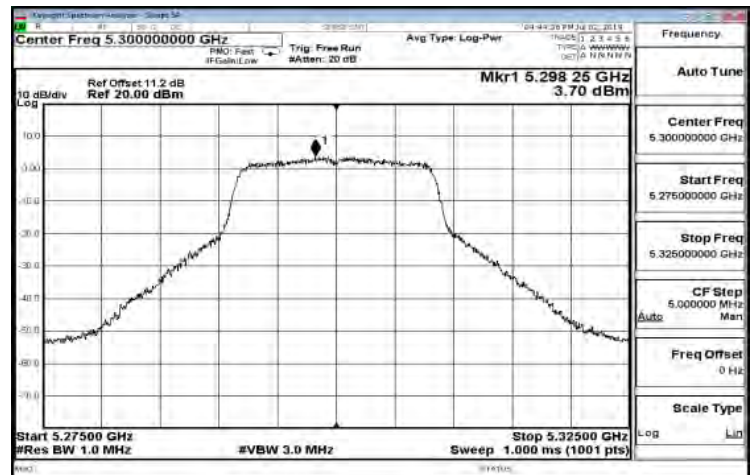
802.11a 20MHz 5260MHz



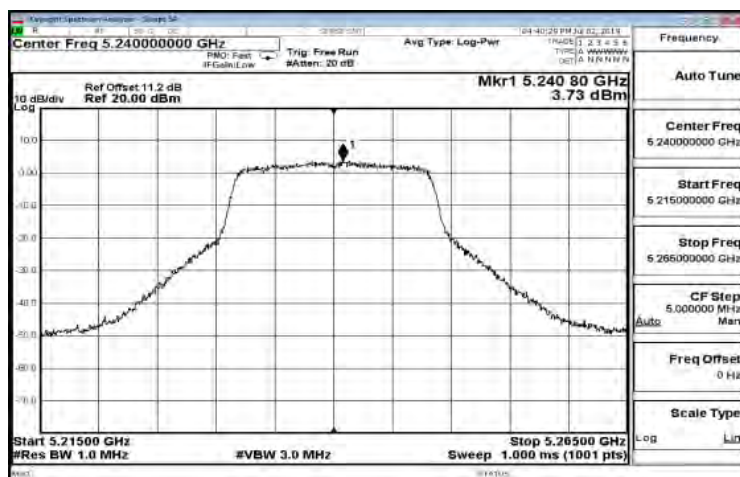
802.11a_20MHz_5220MHz



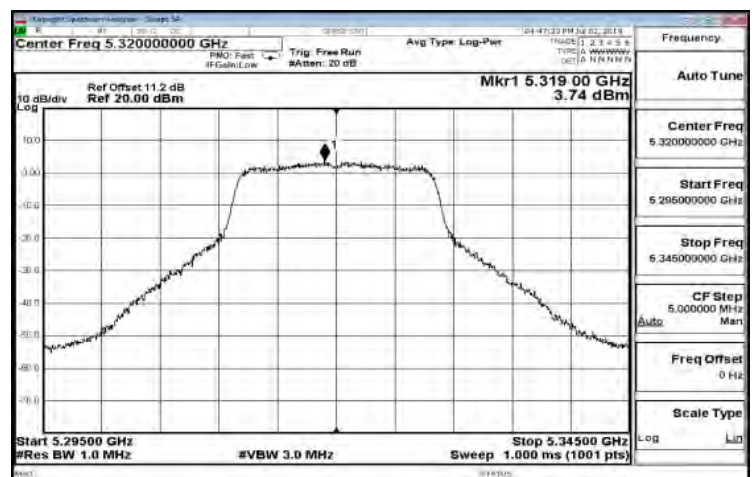
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

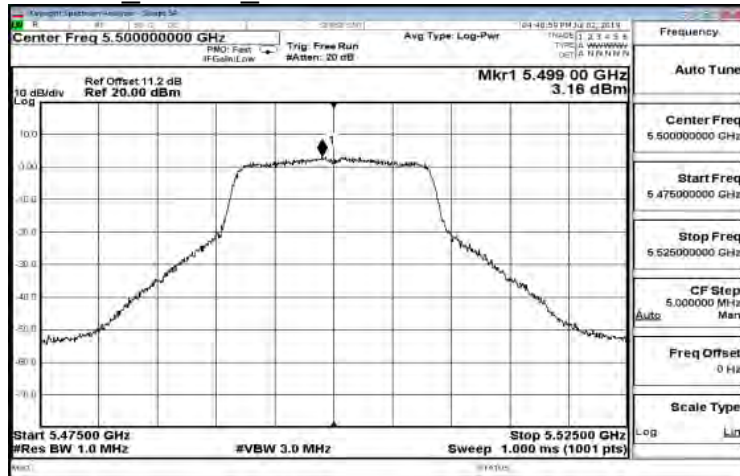


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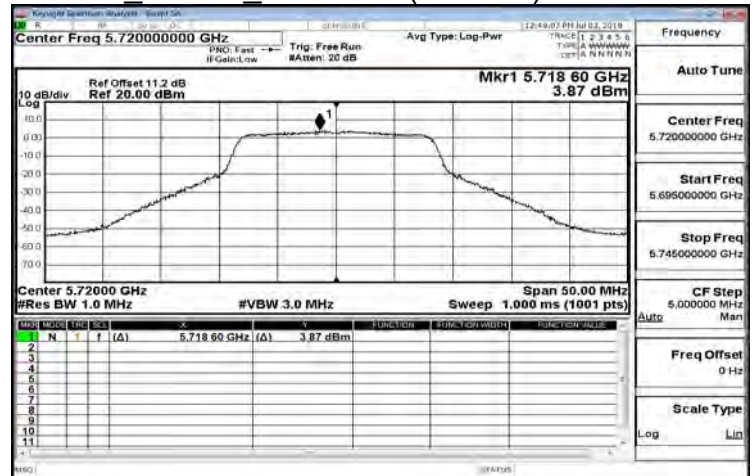
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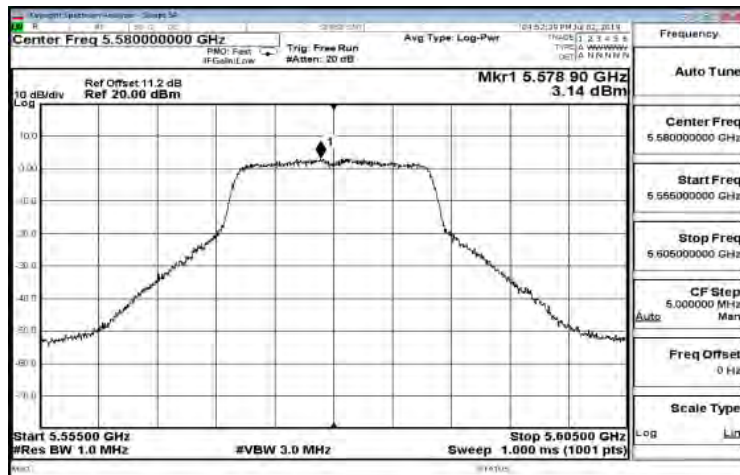
802.11a 20MHz 5500MHz



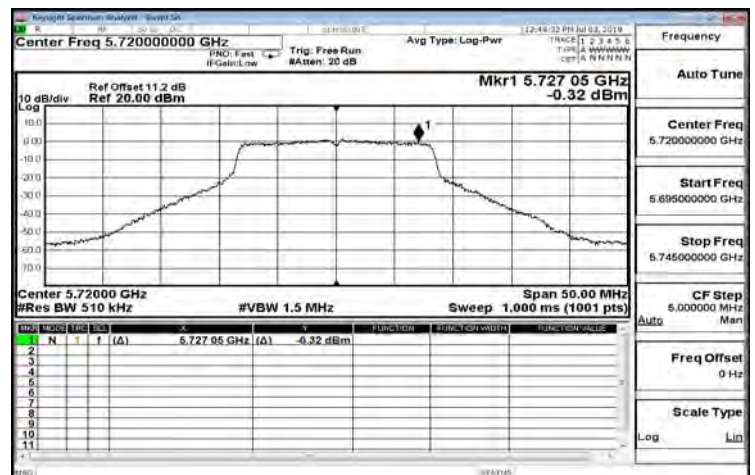
802.11a 20MHz 5720MHz (UNII 2C)



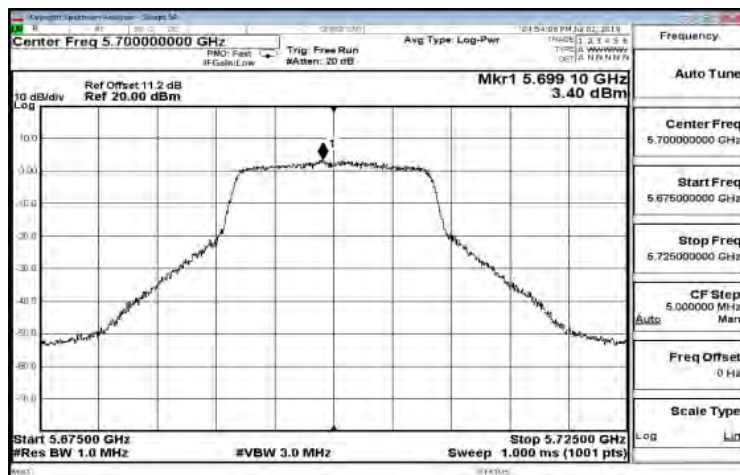
802.11a_20MHz_5580MHz



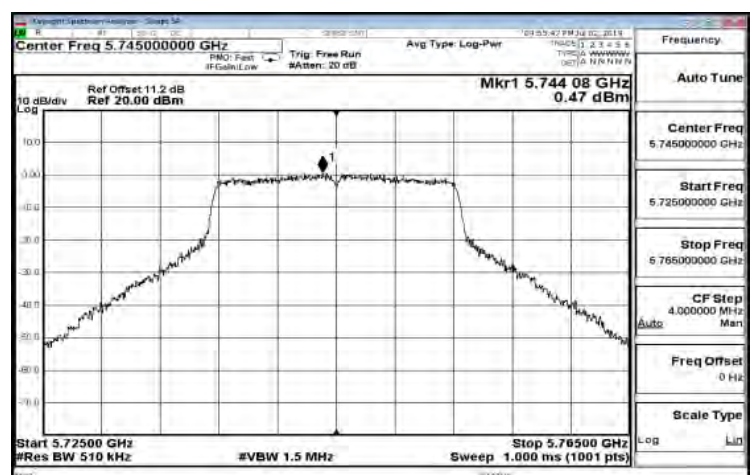
802.11a_20MHz_5720MHz (UNII 3)



802.11a_20MHz_5700MHz



802.11a_20MHz_5745MHz

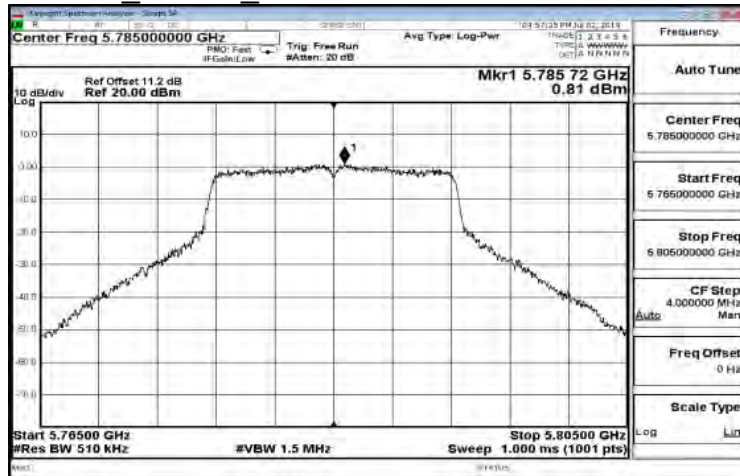


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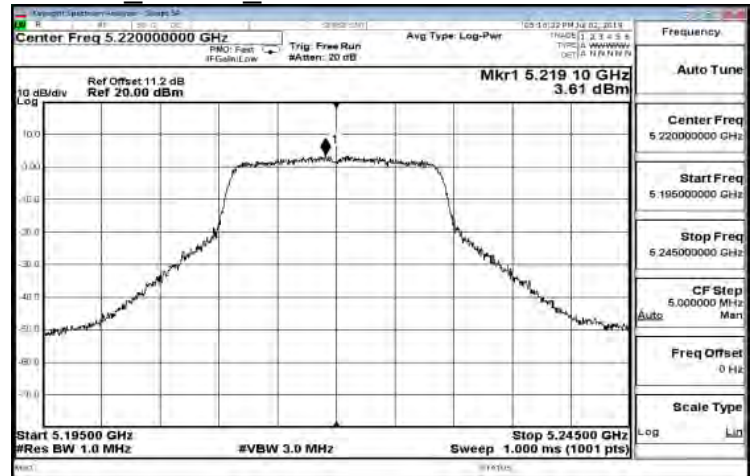
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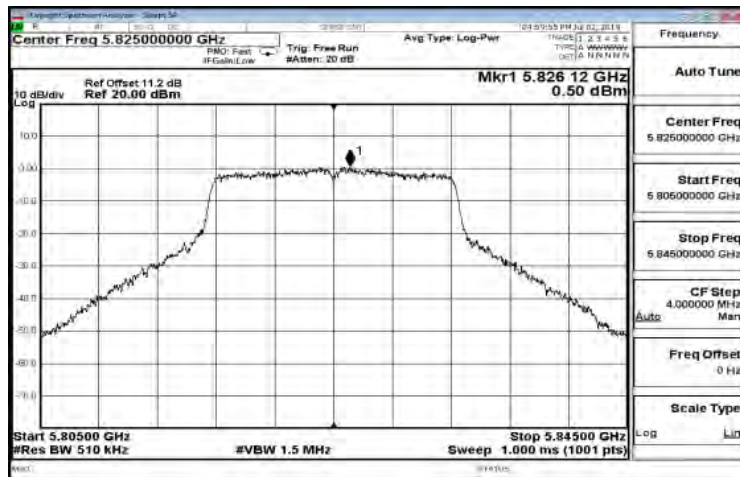
802.11a 20MHz 5785MHz



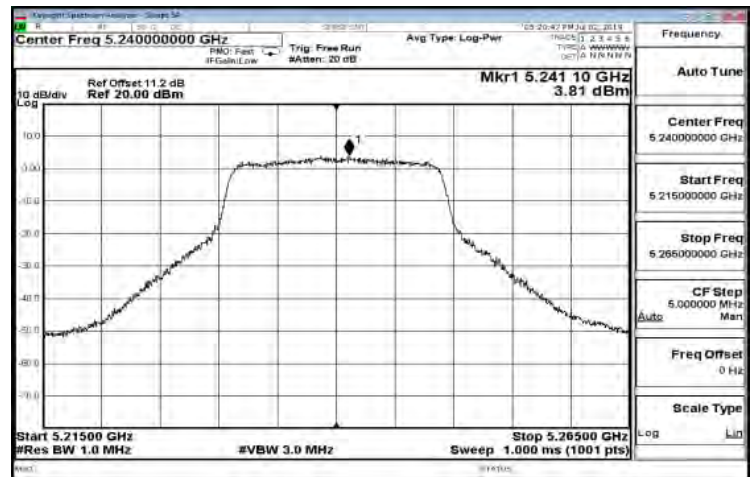
802.11n 20MHz 5220MHz



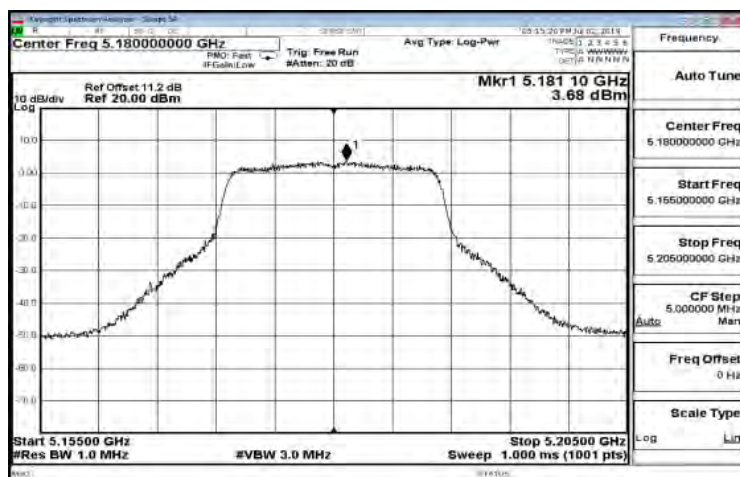
802.11a_20MHz_5825MHz



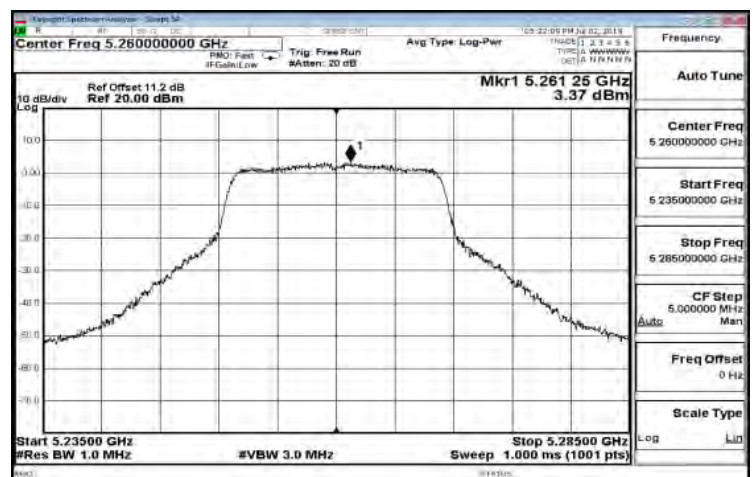
802.11n_20MHz_5240MHz



802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz

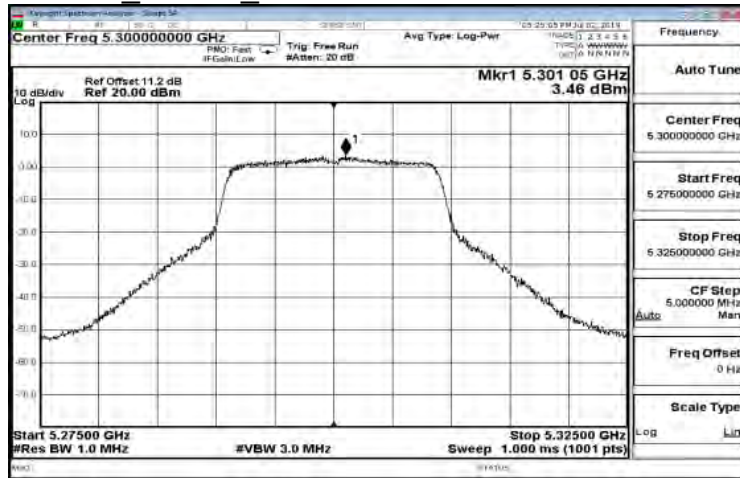


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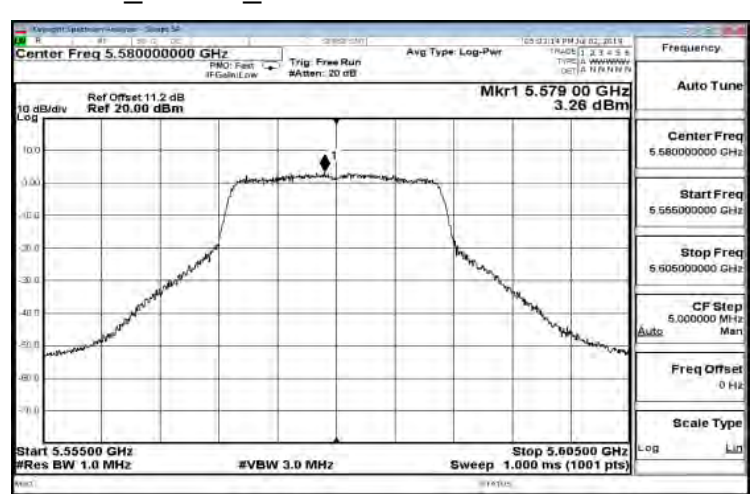
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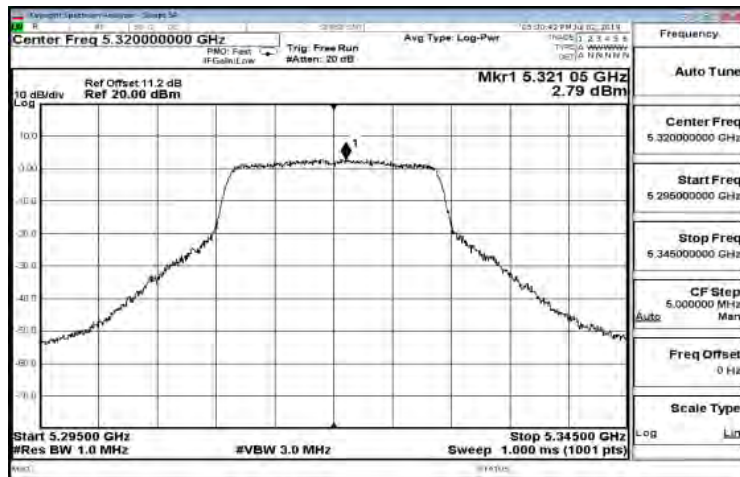
802.11n 20MHz 5300MHz



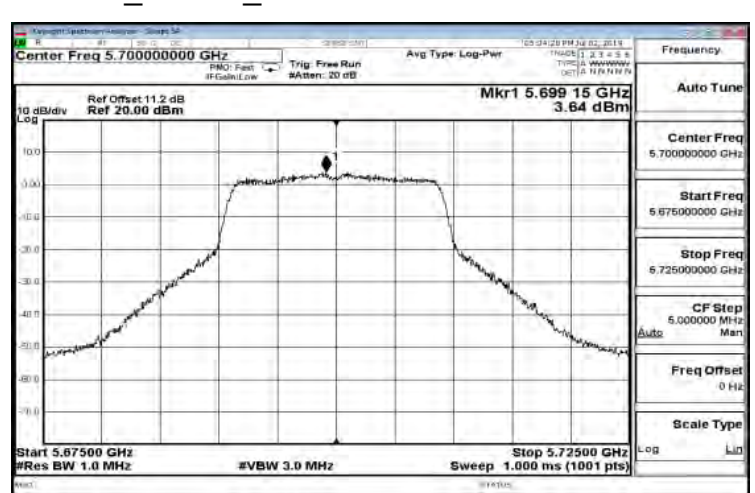
802.11n_20MHz_5580MHz



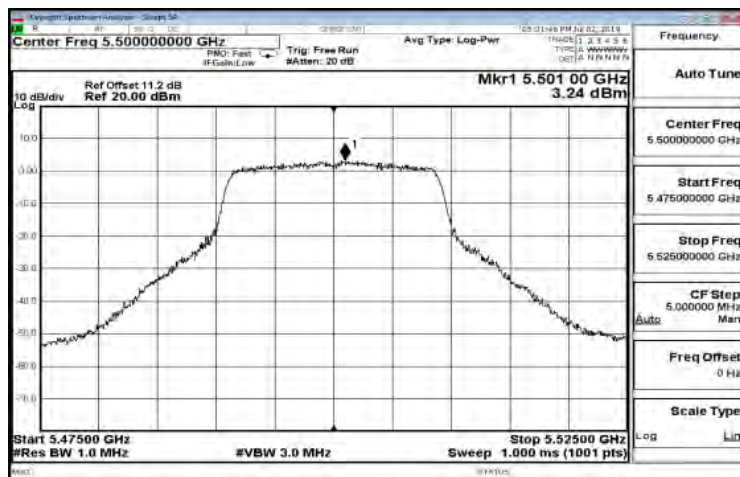
802.11n_20MHz_5320MHz



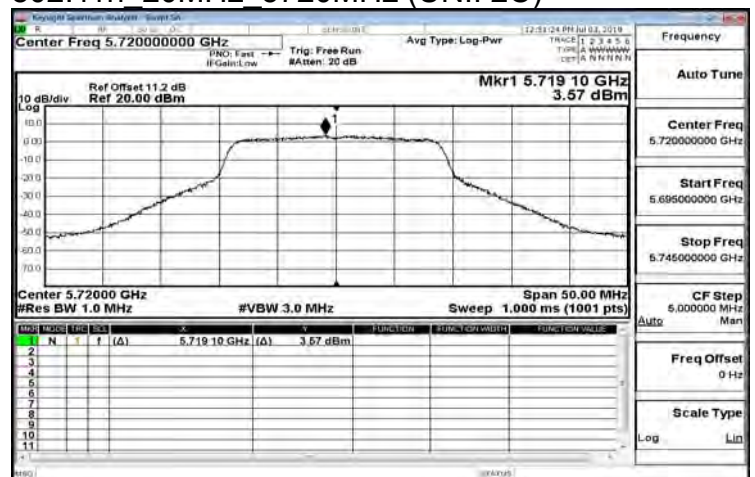
802.11n_20MHz_5700MHz



802.11n_20MHz_5500MHz



802.11n 20MHz 5720MHz (UNII 2C)

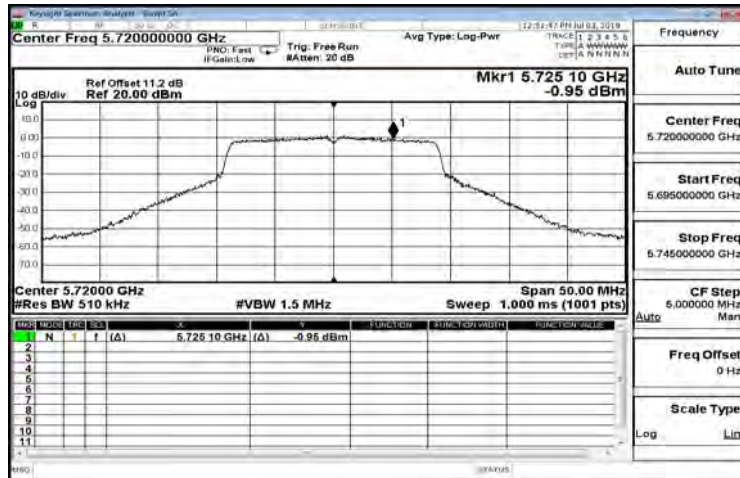


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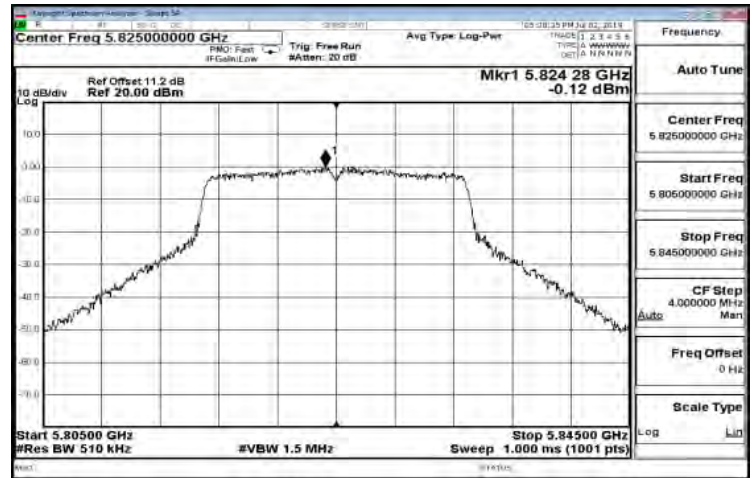
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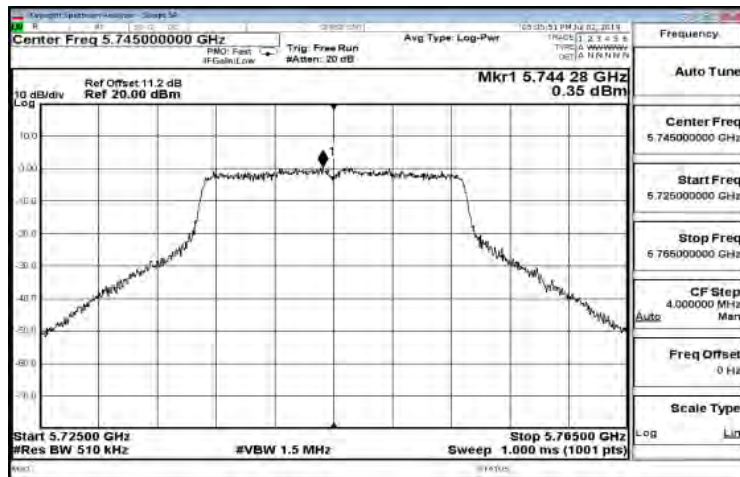
802.11n_20MHz_5720MHz (UNII 3)



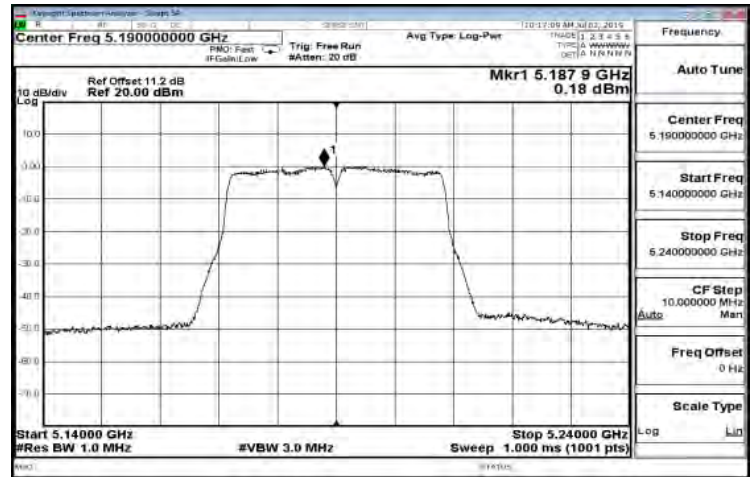
802.11n_20MHz_5825MHz



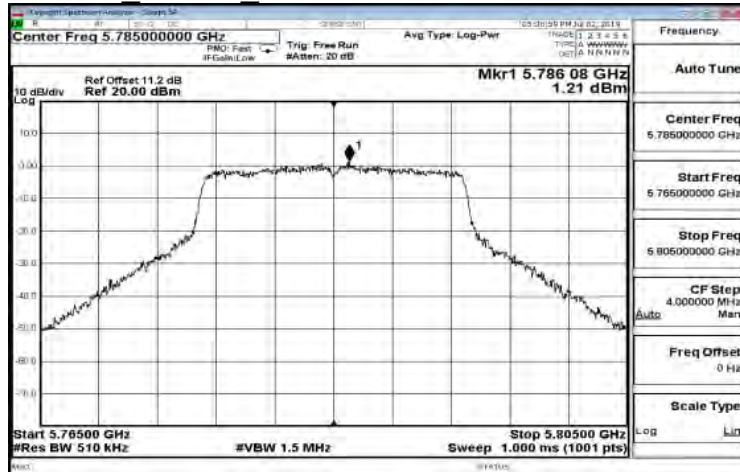
802.11n_20MHz_5745MHz



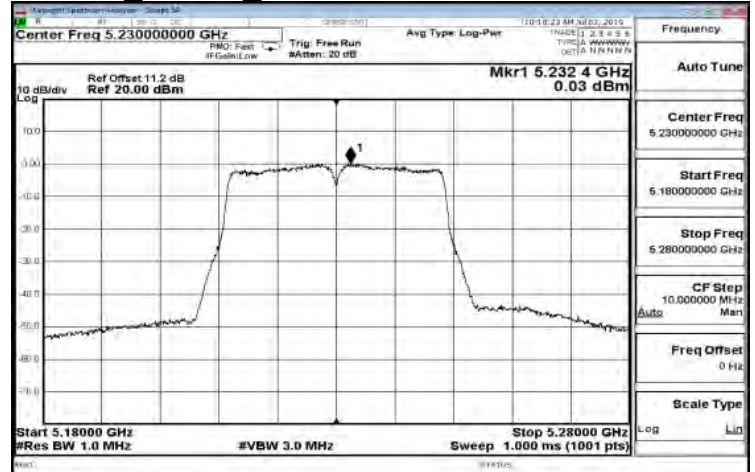
802.11n_40MHz_5190MHz



802.11n 20MHz 5785MHz



802.11n 40MHz 5230MHz

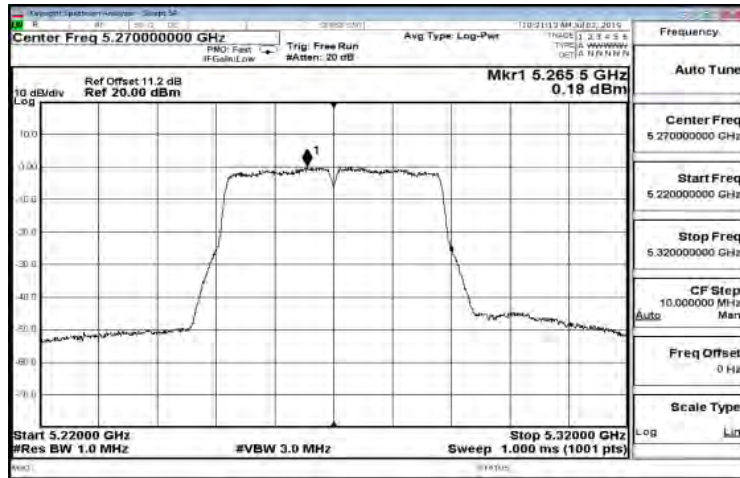


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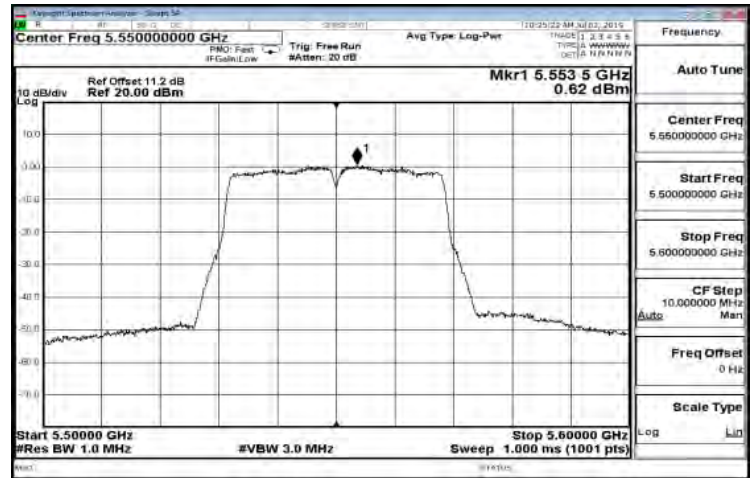
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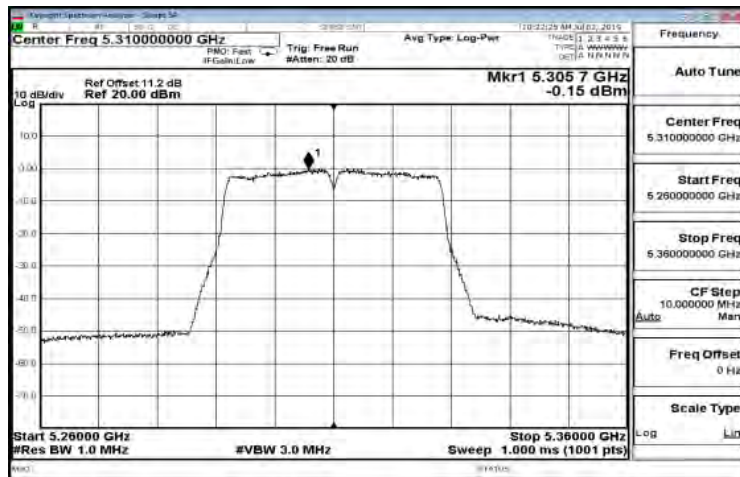
802.11n_40MHz_5270MHz



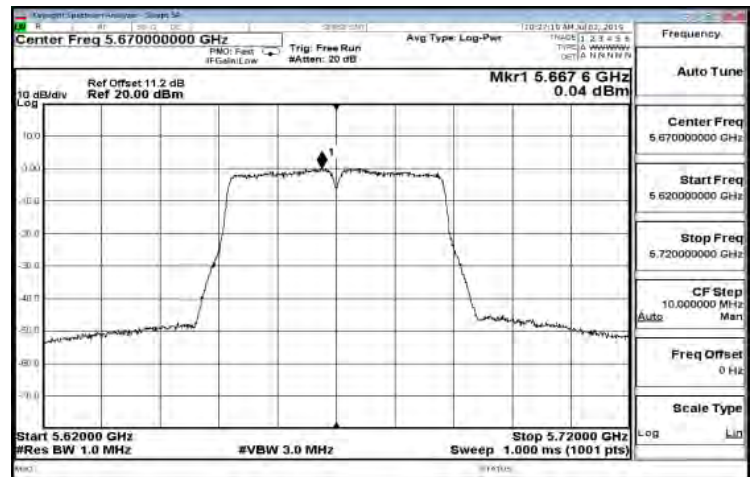
802.11n_40MHz_5550MHz



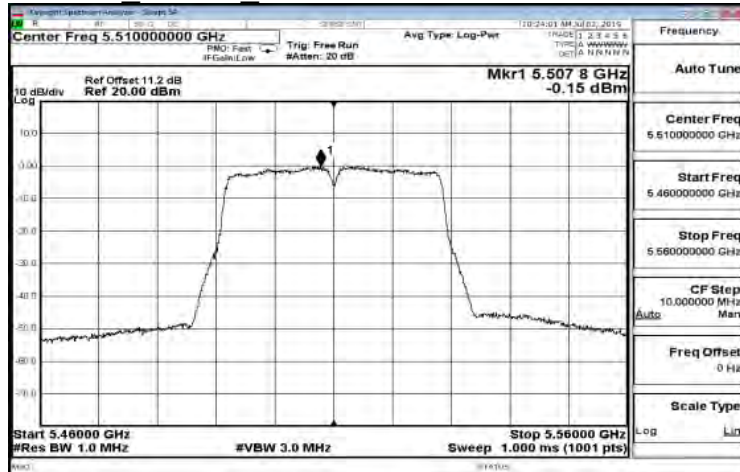
802.11n_40MHz_5310MHz



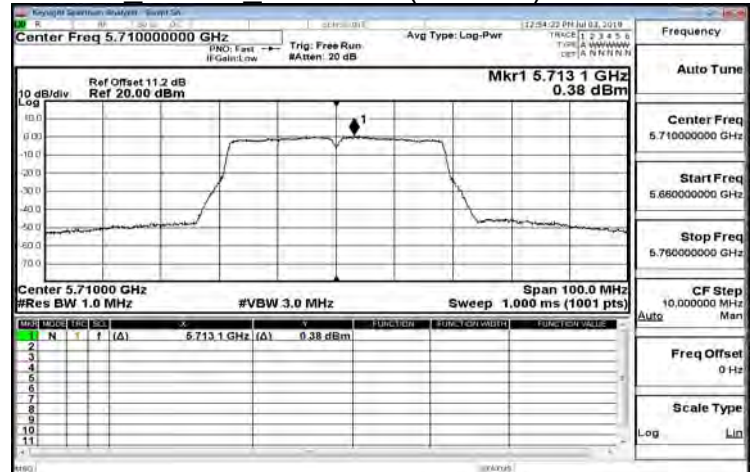
802.11n_40MHz_5670MHz



802.11n 40MHz 5510MHz



802.11n 40MHz 5710MHz (UNII 2C)



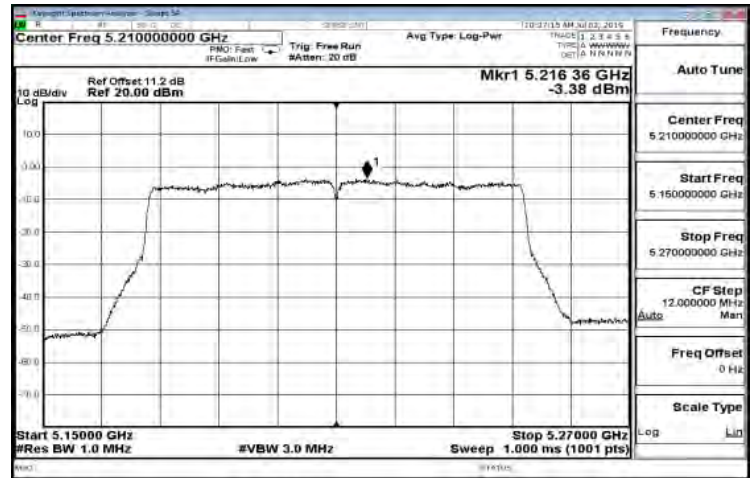
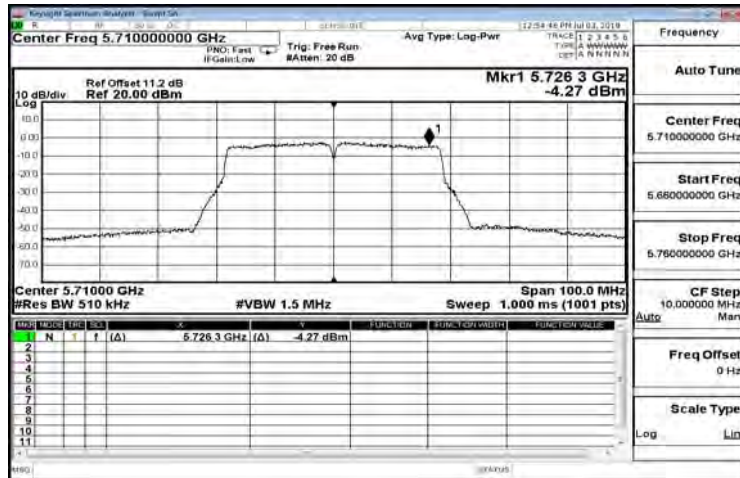
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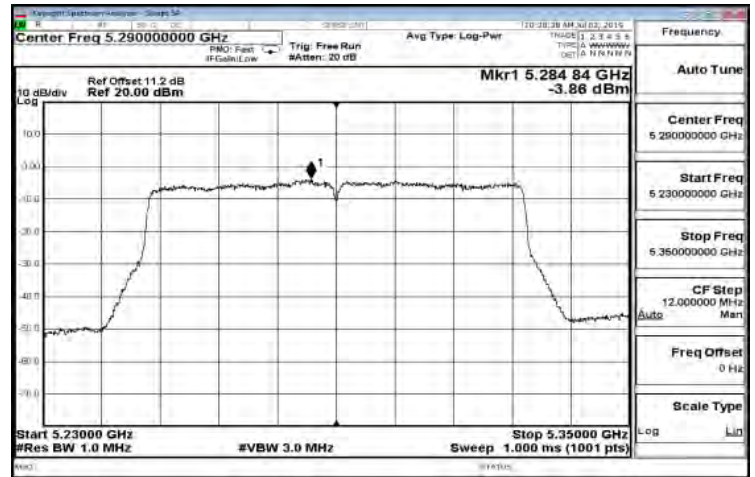
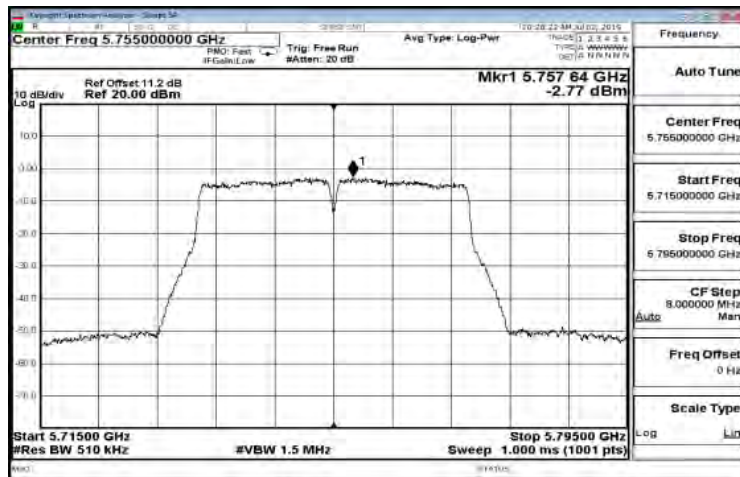
802.11n_40MHz_5710MHz (UNII 3)

802.11ac_VHT80MHz_5210MHz



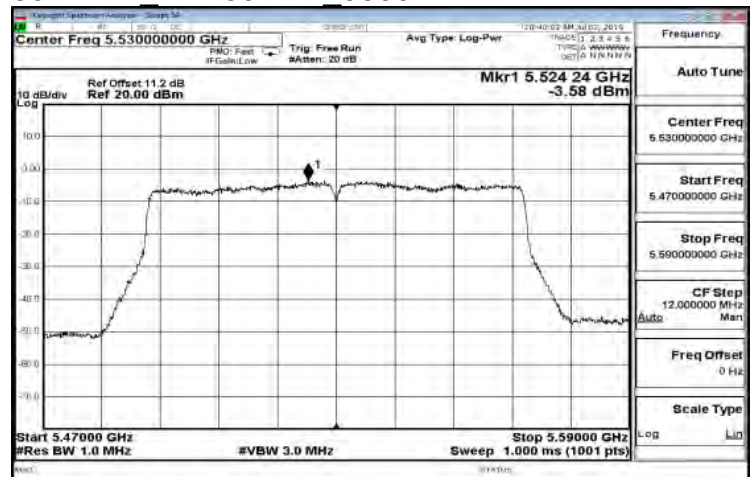
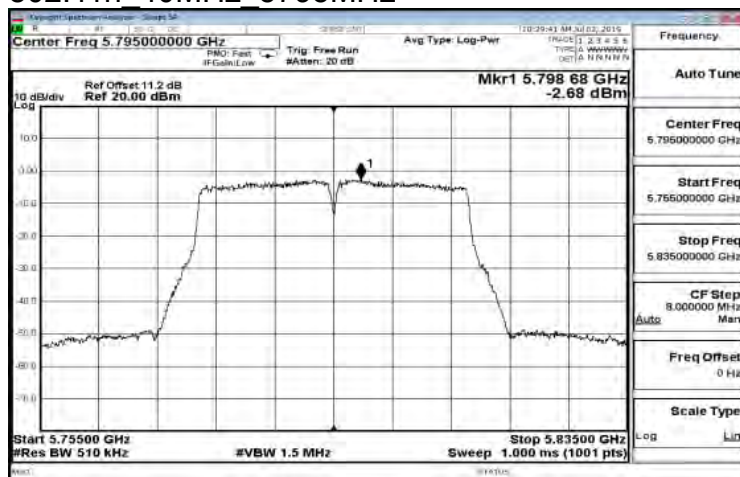
802.11n_40MHz_5755MHz

802.11ac_VHT80MHz_5290MHz



802.11n 40MHz 5795MHz

802.11ac VHT80MHz 5530MHz



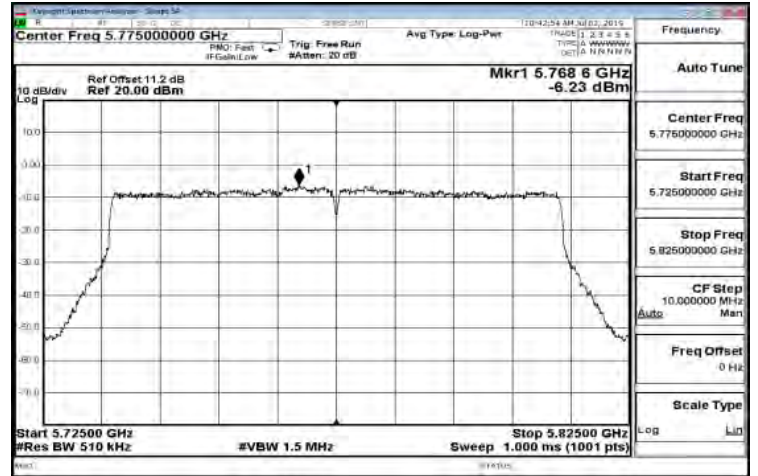
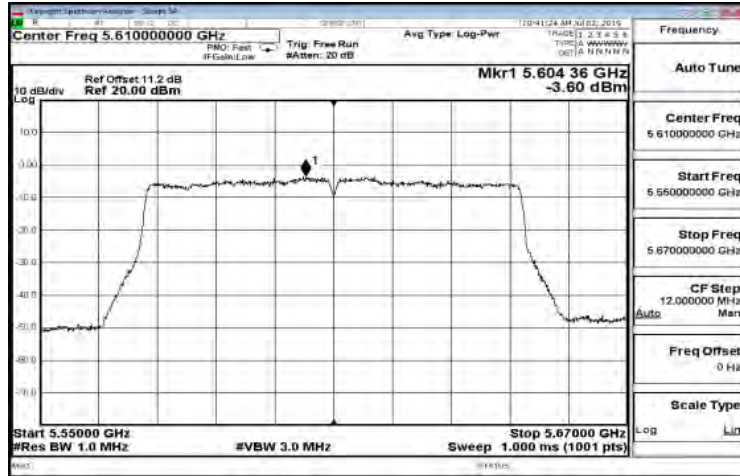
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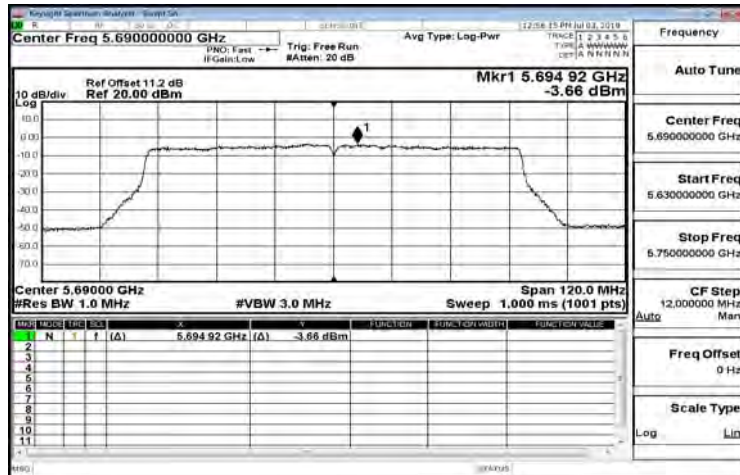
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802.11ac_VHT80MHz_5610MHz

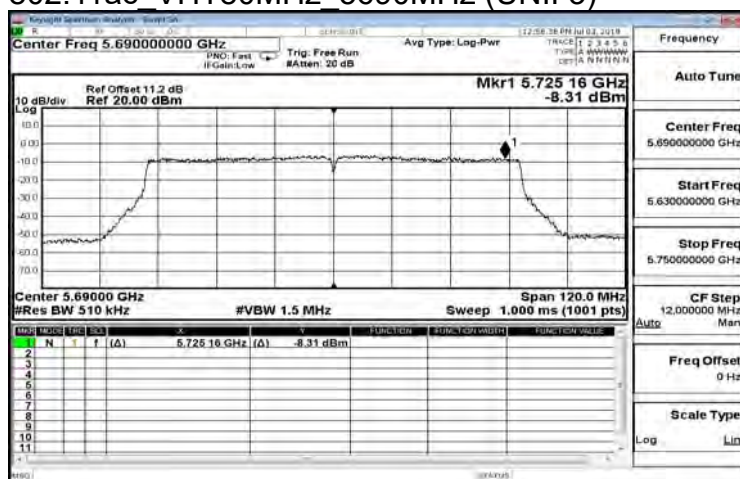
802.11ac_VHT80MHz_5775MHz



802.11ac_VHT80MHz_5690MHz (UNII 2C)



802.11ac_VHT80MHz_5690MHz (UNII 3)



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~ End of Report ~

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