

低功率射頻器材試驗報告



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

謝裕豐

謝裕豐

待測裝置已於台灣檢驗科技股份有限公司射頻實驗中心，依據國家通訊傳播委員會於中華民國一百零九年七月頒佈之低功率射頻器材技術規範 LP0002 測試。

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/A0003	00	Original.	民國 110 年 11 月 25 日	郭玉婷

Note:

- 1、測試報告 E2/2021/A0001 之電源線傳導干擾及 Fully system 場強輻射測試數據，沿用於此報告中。

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1 測試實驗室資料

1.1 認可登錄資訊:

實驗室認可登錄： 中華民國實驗室認證體系

認可編號： TAF 3702

認證有效期間： 110年06月14日起至113年06月13日止

實驗室名稱： 台灣檢驗科技股份有限公司射頻實驗中心

實驗室地址： 新北市新北產業園區五工路134號

電話： 886-2-22993939

傳真： 886-2-22982698

1.2 實驗室場地資訊

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

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2 實驗室之量測不確定度

量測項目	量測不確定度			
	(擴充不確定度)			
傳導干擾量測	電源線	0.15-30MHz	2.34	dB
輻射干擾量測 (3m 測距)	水平極化	9kHz - 30MHz	2.64	dB
		30-1000MHz	4.45	dB
		1-18GHz	4.81	dB
		18-40GHz	4.52	dB
	垂直極化	9kHz - 30MHz	2.64	dB
		30-1000MHz	4.93	dB
		1-18GHz	4.81	dB
		18-40GHz	4.52	dB
頻率誤差量測			1.53	Hz
輸出功率	傳導方式		1	dB
有效輻射功率 (輻射方式)	水平極化	30-1000MHz	2	dB
		1-40GHz	3	dB
	垂直極化	30-1000MHz	2.33	dB
		1-40GHz	3	dB
功率頻譜密度	傳導方式		1.53	dB
鄰頻道功率量測 (輻射方式)	水平極化	30-1000MHz	2	dB
	垂直極化	30-1000MHz	2.33	dB
Transmitter Spurious Emission	33GHz-50GHz		3.8	dB
	50GHz-60GHz		4.67	dB
	60GHz-90GHz		4.81	dB
	90GHz-140GHz		4.57	dB
	140GHz-200GHz		5.42	dB

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度。

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3 一般資料

3.1 產品描述

產品名稱	Atto
廠牌	NextDrive Co.
型號	Atto
型號差異	N/A
使用電源	5 Vdc from AC/DC Adapter

3.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 72.2 Mbps
	802.11 n_40MHz: 13.5 - 150 Mbps
	802.11 ac_20MHz: 6.5 - 86.7 Mbps
	802.11 ac_40MHz: 13.5 - 200 Mbps
	802.11 ac_80MHz: 29.3 - 433.3 Mbps

3.3 天線資訊

Antenna Type	Brand	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	華新科技股份有限公司	RFPCA302411IMLB301	5150~5250	4.68
			5725~5850	4.68
Note: Antenna information is provided by the applicant.				

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3.4 射頻特性

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/ n_HT/ ac_VHT 20M	5180~5240	4	18.66 dBm	OFDM
	5745-5825	5	18.92 dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	2	18.80 dBm	OFDM
	5755-5795	2	18.96 dBm	OFDM
ac_VHT 80M	5210	1	9.71 dBm	OFDM
	5775	1	18.71 dBm	OFDM

3.5 配件資訊

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

以下不附賣配件經申請者切結，器材不隨貨提供並由申請者提供併同檢驗。

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

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3.6 使用頻段

此裝置符合IEEE Std 802.11 標準，採用正交分頻多工 OFDM 調變技術。

Operated band in 5150 MHz ~5250 MHz:

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

Operated band in 5725 MHz ~5850 MHz:

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

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4 最差測試模式:

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☐ 2TX
☒ 802.11 n	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ SISO	☐ MIMO
☒ 802.11 ac	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ SISO	☐ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
	5745~5825	149 to 165	157			
RADIATED EMISSION TEST (ABOVE 1 GHz)						
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	ch0
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0
	5775	155	155			

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	ch0
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0
	5775	155	155			

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5 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器材技術規範(LP0002, 109.7.1 版本) 如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI C63.10:2013、FCC CFR 47 15.407、FCC 14-30、KDB 789033D02 之檢驗法。

低功率射頻器材技術規範5.7節及FCC Part 15.407

項次	測試項目	適用規範	測試結果
1	不必要發射之限制	低功率射頻器材技術規範 5.7.4	符合
2	電源線傳導干擾	低功率射頻器材技術規範 3.3節	符合
3	天線增益之要求	低功率射頻器材技術規範 5.7.3.1 (1) (C) , (2) (C) , (3) (C) , (4) (C) 5.7.3.2 (3) 5.7.3.3 (3) , (4)	符合
4	26 dB& 6dB頻寬	低功率射頻器材技術規範 5.7.3 ,4	符合
5	最大輸出功率	低功率射頻器材技術規範 5.7.3	符合
6	功率密度	低功率射頻器材技術規範 5.7.3	符合

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6 適用規範

6.1 規範要求 (一般規定)

(1) 傳導之規定

依據NCC低功率射頻器材技術規範之3.3節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自150 kHz~30 百萬赫(MHz) 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利(uH)及50 歐姆(Ω)之電源線阻抗穩定網路(Line Impedance Stabilization Network; LISN)。頻率重疊處，以較低限制值為準。

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低功率射頻器材技術規範3.5節之要求，其他開放頻帶外不必要之輻射需符合3.6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，以較嚴格之限制值為準。

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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(3) 禁用頻帶限制之規定

依據NCC低功率射頻器材技術規範3.5節之要求，任何低功率射頻器材之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻器材落於下表所列頻帶內之混附發射，其電場強度必須符合第3.6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低功率射頻器材技術規範3.9節之要求，低功率射頻電機之收、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；收信機之輻射電場強度不得超過3.6之發射規定，且不得解調3.5所列之頻率。

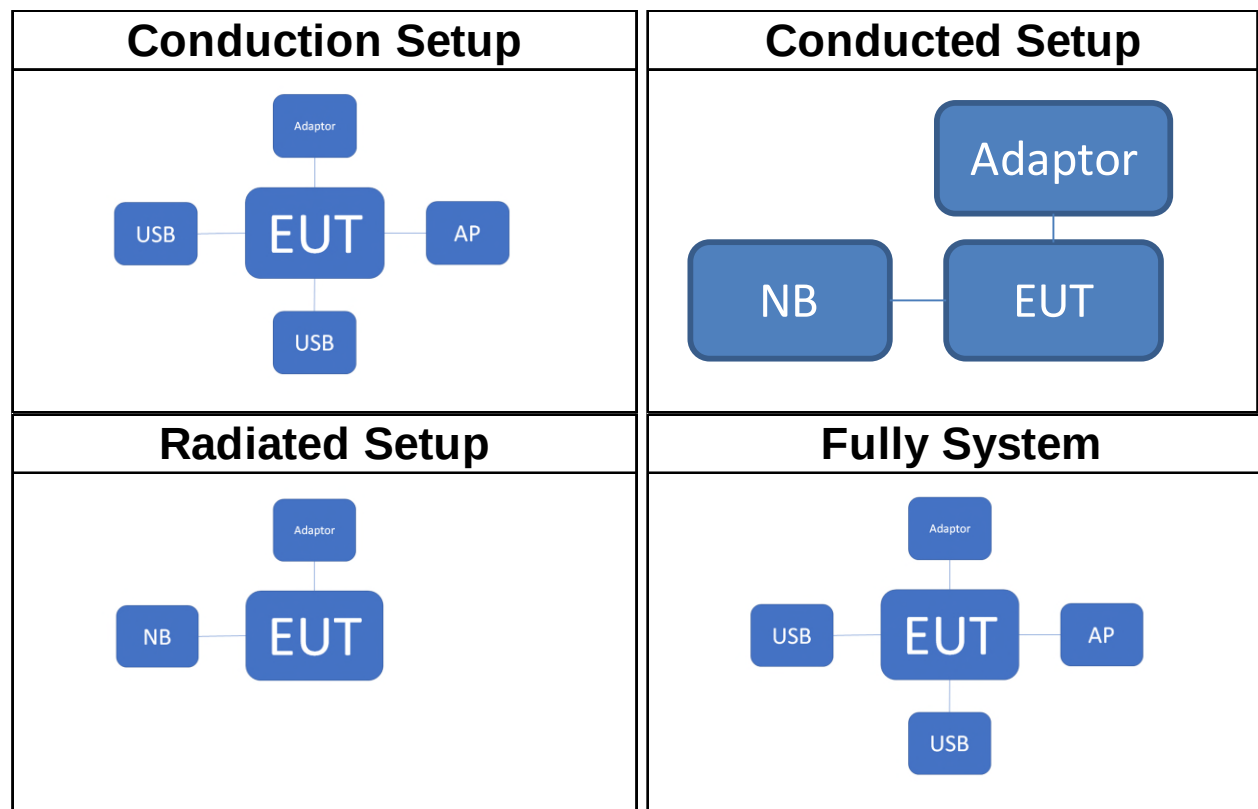
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7 測試配置

7.1 待測物與測試週邊配置圖



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7.2 測試週邊描述

7.2.1 Conduction

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AP	聯齊	Atto	A1E21D49CDDA895C4	N/A	N/A
Cable	河南東之江	ZC-RPSV	N/A	N.C.R	N.C.R
USB Pen Driver	Kingston	DataTraveler	G4	N.C.R	N.C.R
USB Pen Driver	ADATA	UV120	UV120	N.C.R	N.C.R
Adapter	元群科技股份有限公司	RA040-0503000JP	N/A	N.C.R	N.C.R

7.2.2 Conducted

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Adapter	元群科技股份有限公司	RA040-0503000JP	N/A	N/A	N/A

7.2.3 Radiated

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	元群科技股份有限公司	RA040-0503000JP	N/A	N.C.R	N.C.R
USB Cable	Magic	MA-MF001	N/A	N.C.R	N.C.R
Notebook	Lenovo	L420	S0011721	N/A	N/A

7.2.4 Fully System

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AP	聯齊	Atto	A1E21D49CDDA895C4	N/A	N/A
USB Pen Driver	Kingston	DataTraveler	G4	N.C.R	N.C.R
USB Pen Driver	ADATA	UV120	UV120	N.C.R	N.C.R
Adapter	元群科技股份有限公司	RA040-0503000JP	N/A	N.C.R	N.C.R
Cable	河南東之江	ZC-RPSV	N/A	N.C.R	N.C.R

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8 電源線傳導干擾之量測

8.1 適用標準

依據NCC低功率射頻器材技術規範3.3節之要求。

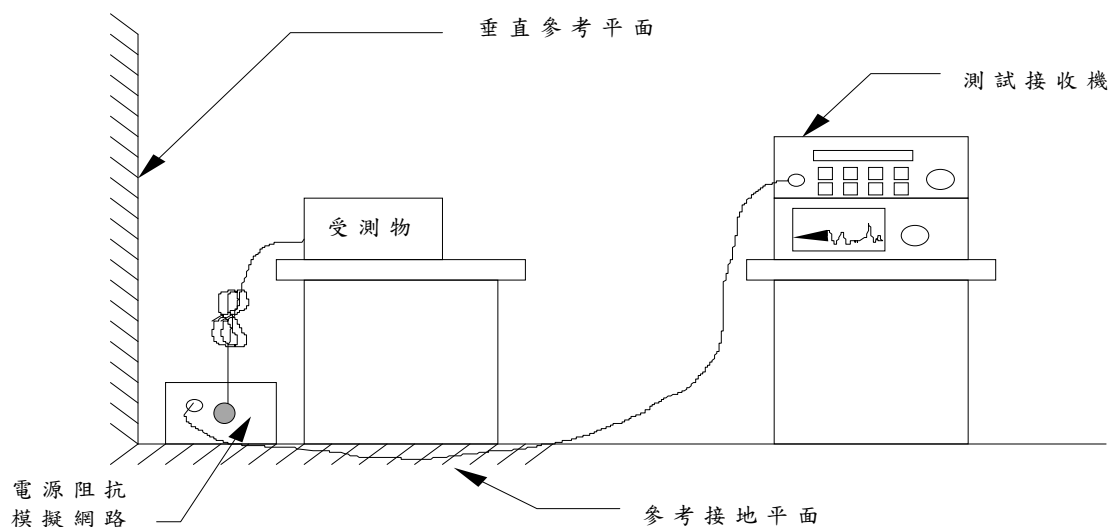
8.2 測試方法

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的峰值量側(Peak)並提供掃描圖，Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

8.3 量測儀器

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	03/25/2021	03/24/2022
EMI Test Receiver	R&S	ESCI	101342	04/27/2021	04/26/2022
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2021	03/26/2022
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022

8.4 測試配置



8.5 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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8.6 傳導干擾之量測結果

Report Number :E2/2021/A0001

Test Site :Conduction C

Test Mode :System

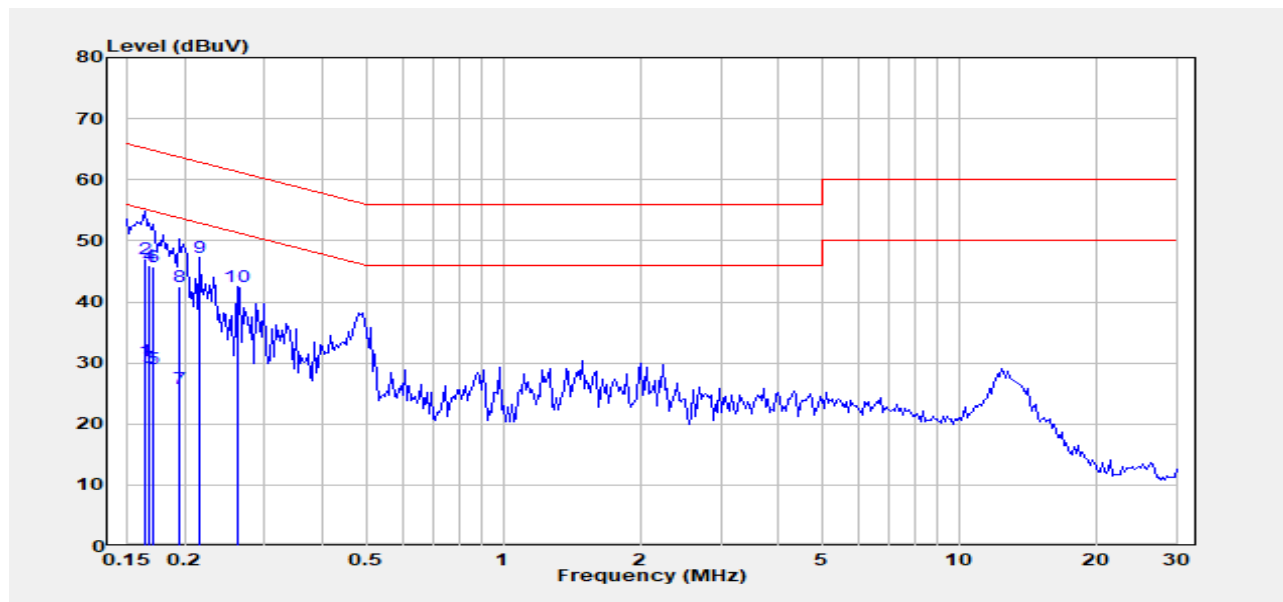
Test Date :2021-10-21

Power :110V/60Hz

Temp./Humi. :23.0/69

Probe :N

Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.163	Average	20.11	10.31	30.42	65.30	-34.88
0.163	QP	36.80	10.31	47.11	65.30	-18.19
0.167	Average	19.00	10.31	29.31	55.12	-25.81
0.167	QP	35.68	10.31	45.99	65.12	-19.13
0.170	Average	18.71	10.31	29.02	54.94	-25.93
0.170	QP	35.41	10.31	45.72	64.94	-19.23
0.195	Average	15.41	10.30	25.71	53.80	-28.09
0.195	QP	32.15	10.30	42.45	63.80	-21.35
0.215	Peak	36.87	10.30	47.17	63.01	-15.83
0.260	Peak	32.26	10.31	42.57	61.42	-18.85

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Report Number :E2/2021/A0001

Test Site :Conduction C

Test Mode :System

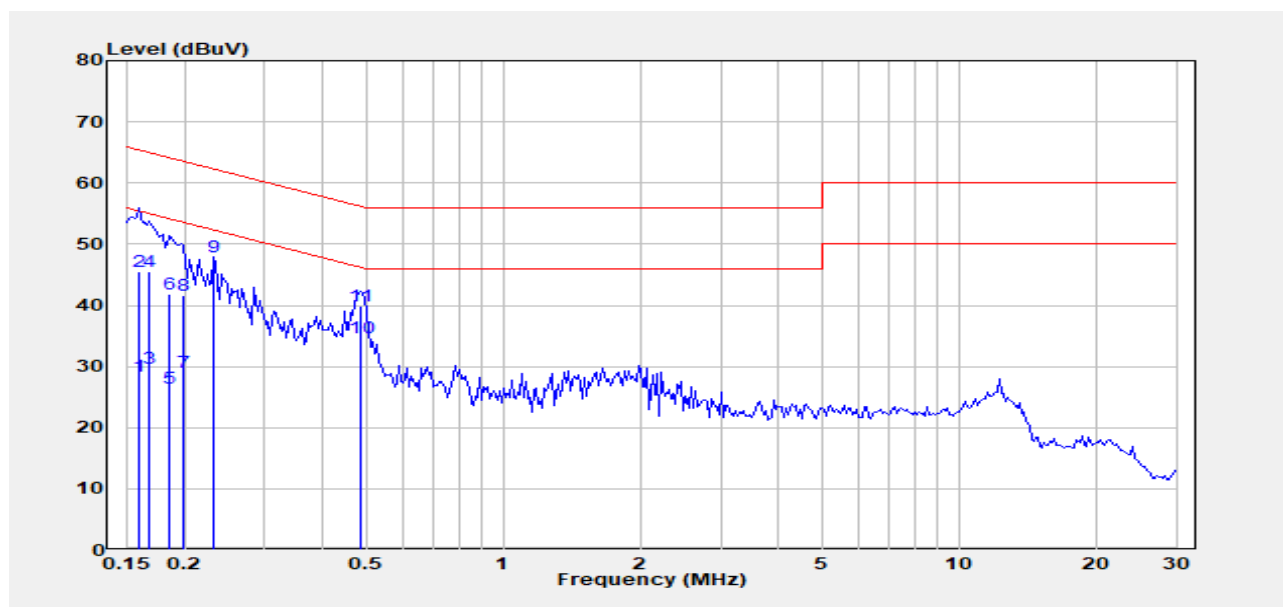
Test Date :2021-10-21

Power :110V/60Hz

Temp./Humi. :23.0/69

Probe :L1

Engineer :Kailin Lee



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.158	Average	18.11	10.30	28.41	55.56	-27.15
0.158	QP	35.22	10.30	45.52	65.56	-20.04
0.167	Average	19.51	10.30	29.81	55.12	-25.31
0.167	QP	35.27	10.30	45.57	65.12	-19.55
0.185	Average	16.23	10.30	26.53	54.24	-27.71
0.185	QP	31.45	10.30	41.75	64.24	-22.49
0.200	Average	18.77	10.30	29.07	53.62	-24.55
0.200	QP	31.25	10.30	41.55	63.62	-22.07
0.232	Peak	37.54	10.30	47.85	62.39	-14.55
0.486	Average	24.35	10.31	34.66	46.23	-11.57
0.486	QP	29.65	10.31	39.96	56.23	-16.27

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9 26DB & 6DB 頻寬之測試

9.1 適用標準

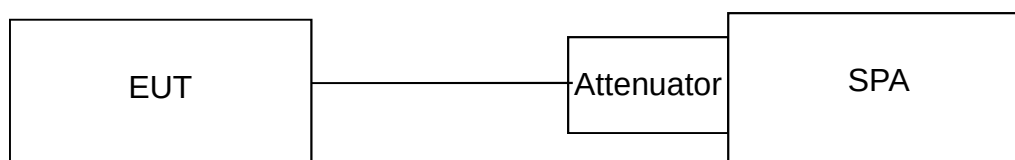
- (1) 5.15 GHz~5.25 GHz、5.25 GHz~5.35 GHz 及 5.47 GHz~5.725 GHz 頻段，
測試 26 dB 發射頻寬
- (2) 在 5.725 GHz~5.850 GHz 頻段操作之設備，其 6 dB 頻寬至少應有 500 kHz。

9.2 量測儀器

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF158	11/19/2020	11/18/2021

9.3 測試配置



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9.4 量測方法

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission
BW Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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9.5 量測結果

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.08	13.240
5220	29.63	14.720
5240	29.73	14.730

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.77	11.980
5785	16.33	12.130
5825	16.04	12.050

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.05	< 5250
5745	5735.07	> 5725

802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.28	13.280
5220	30.00	14.770
5240	29.71	14.730

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.92	12.020
5785	15.40	11.880
5825	17.33	12.390

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.23	< 5250
5745	5735.26	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.53	15.970
5230	50.00	16.990

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.71	15.530
5795	33.86	15.300

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.47	< 5250
5755	5736.57	> 5725

802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.65	19.070

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.12	18.760

802.11ac_VHT80_Ch0

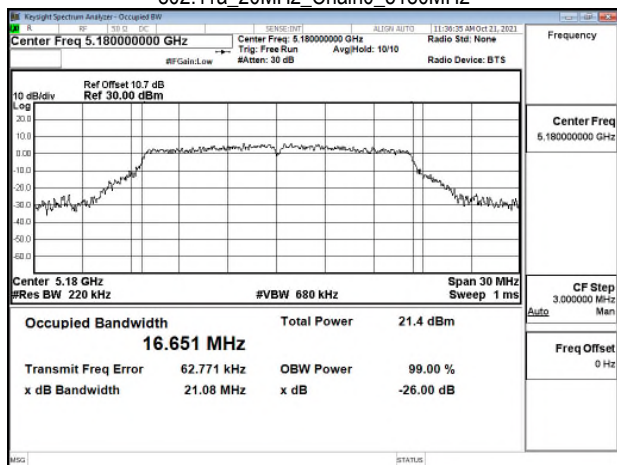
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.85	< 5250
5775	5737.18	> 5725

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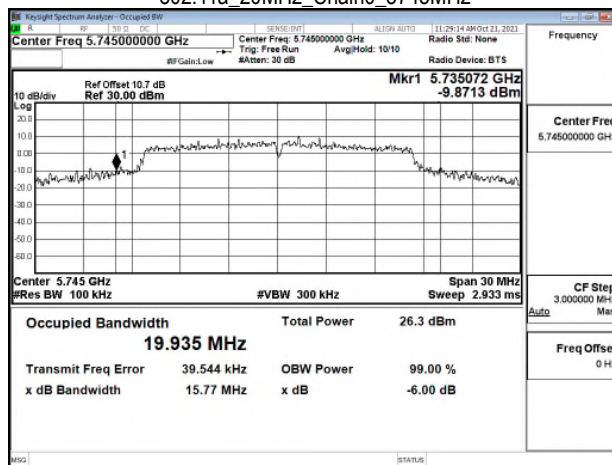
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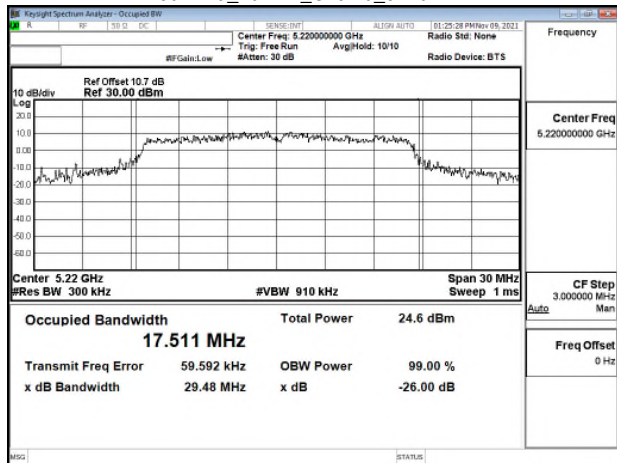
802.11a_20MHz_Chain0_5180MHz



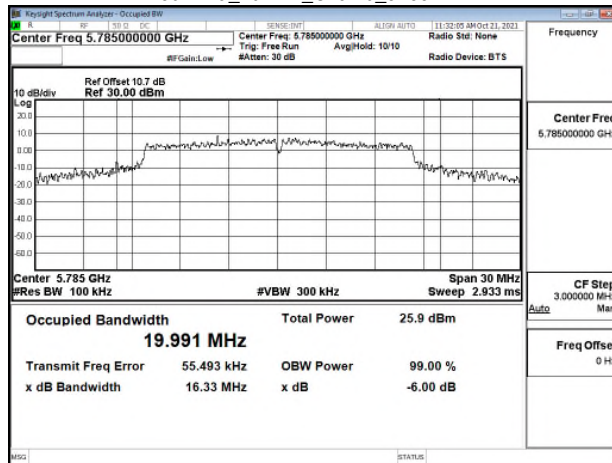
802.11a_20MHz_Chain0_5745MHz



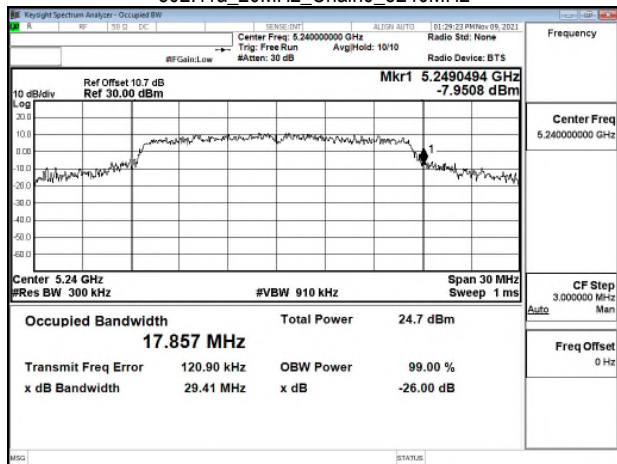
802.11a_20MHz_Chain0_5220MHz



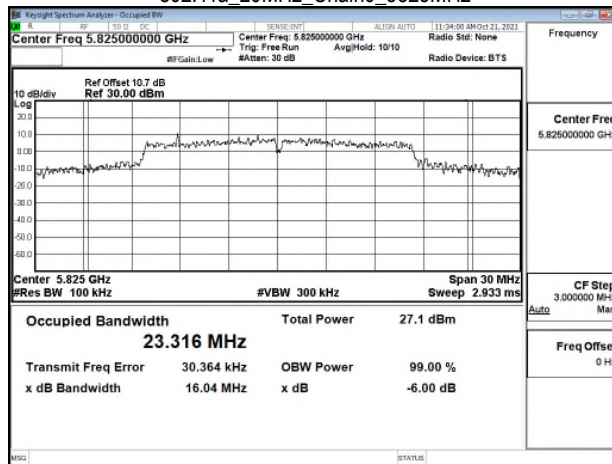
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5825MHz

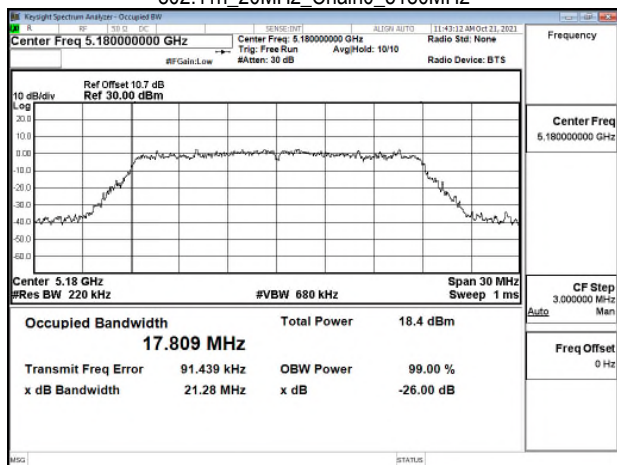


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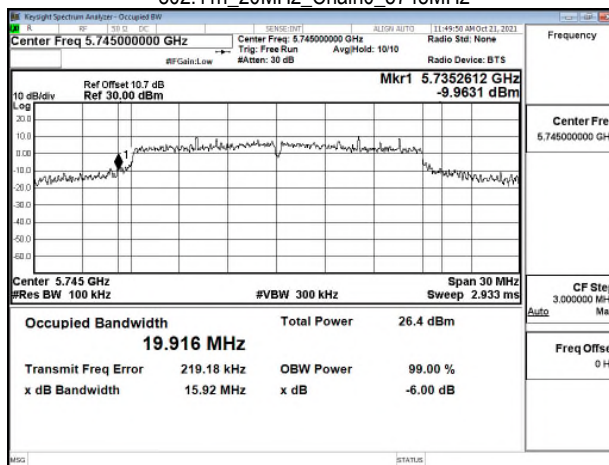
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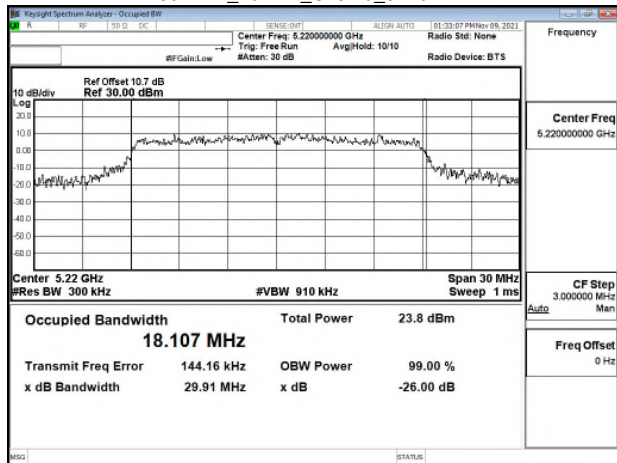
802.11n_20MHz_Chain0_5180MHz



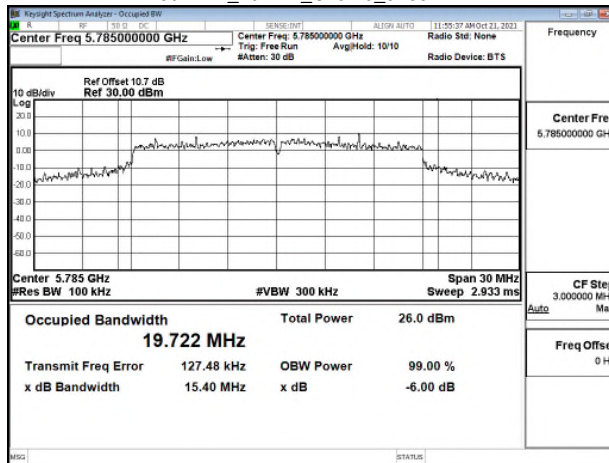
802.11n_20MHz_Chain0_5745MHz



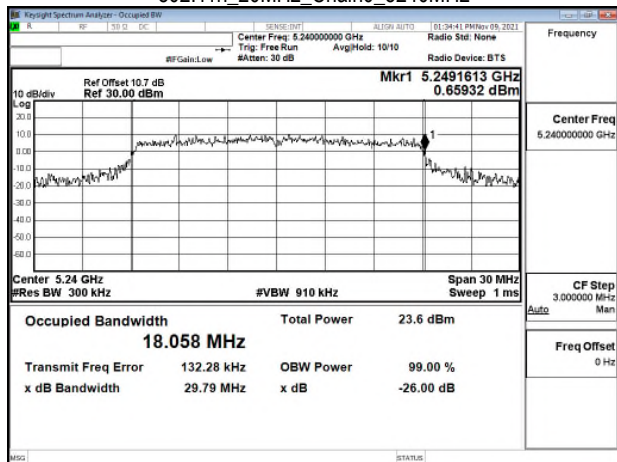
802.11n_20MHz_Chain0_5220MHz



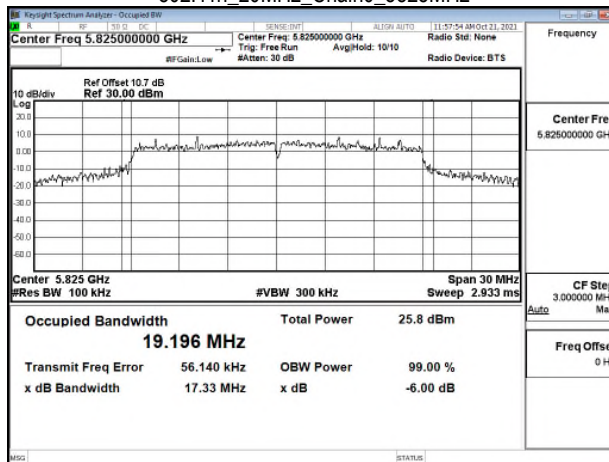
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5825MHz

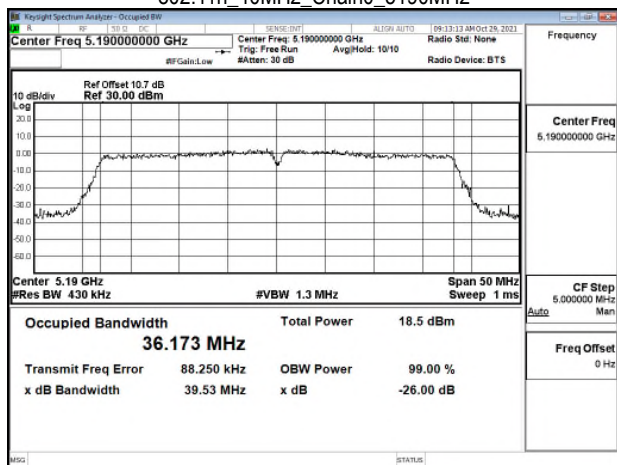


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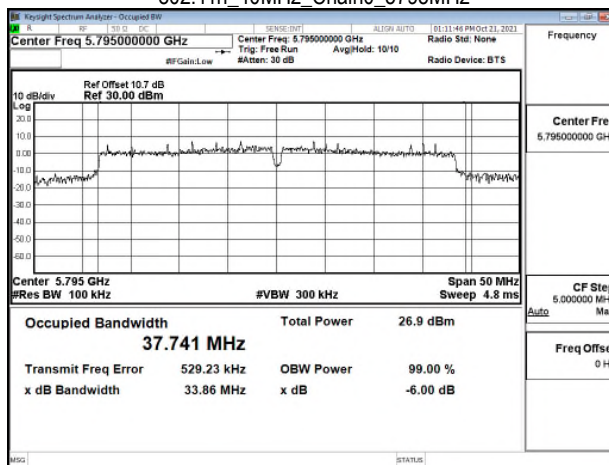
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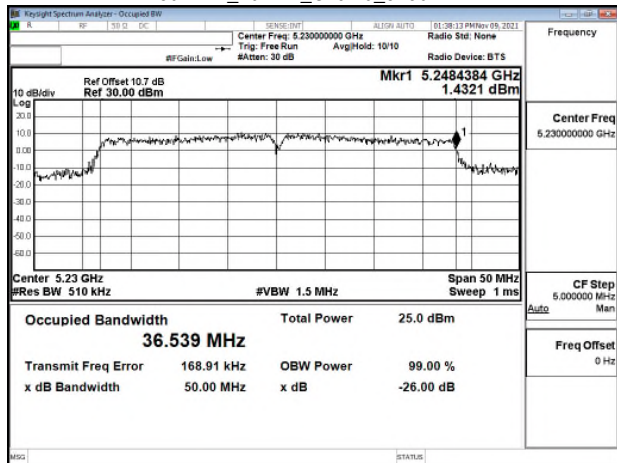
802.11n_40MHz_Chain0_5190MHz



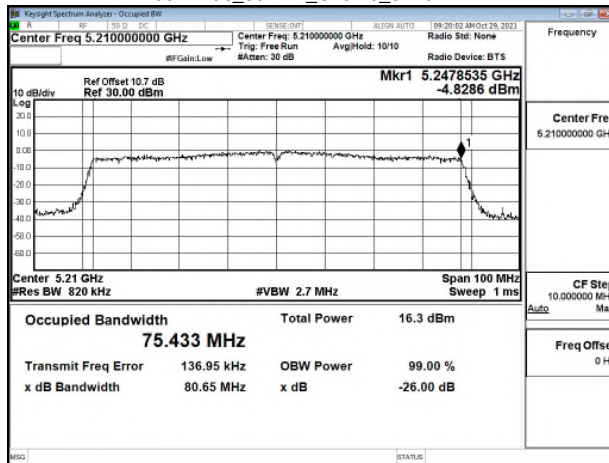
802.11n_40MHz_Chain0_5795MHz



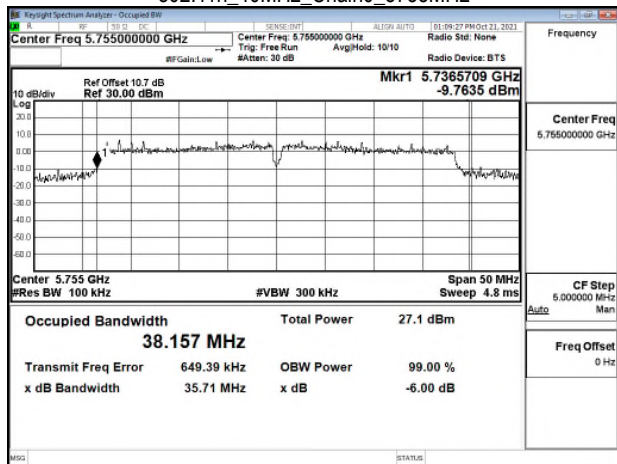
802.11n_40MHz_Chain0_5230MHz



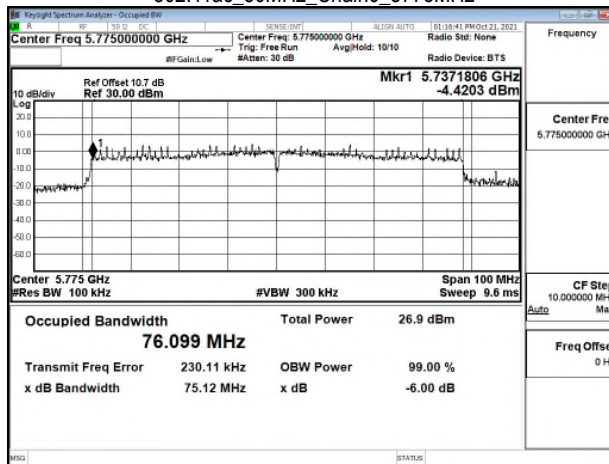
802.11ac_80MHz_Chain0_5210MHz



802.11n_40MHz_Chain0_5755MHz



802.11ac_80MHz_Chain0_5775MHz



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10 輸出峰值功率之量測

10.1 適用標準

10.1.1 載波頻率工作週期

在進行功率測量前，應檢查每種模式的工作週期以補償工作週期校正因子 (Duty Factor)。

10.1.2 輸出峰值功率

依據NCC低功率射頻器材技術規範5.7.3節之要求

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	V	Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
		Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C		Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

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10.2 量測儀器

10.2.1 載波頻率工作週期

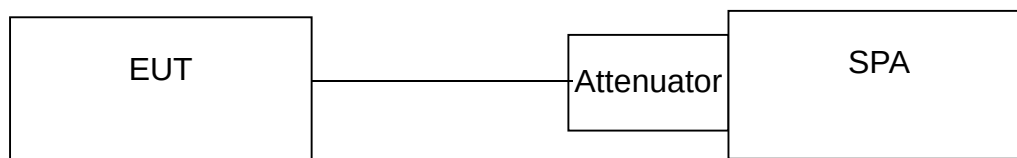
Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF158	11/19/2020	11/18/2021

10.2.2 輸出峰值功率

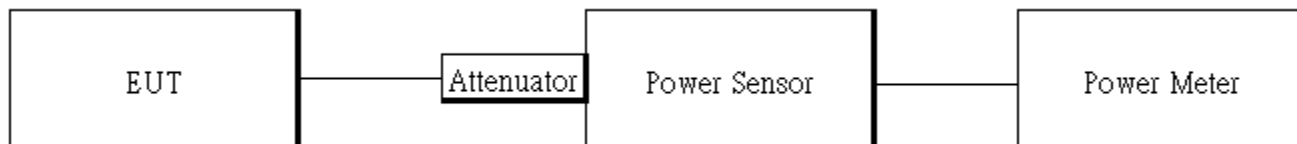
Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022

10.3 測試配置

10.3.1 載波頻率工作週期



10.3.2 輸出峰值功率



10.4 量測方式

10.4.1 載波頻率工作週期儀器設定

Span = Zero, RBW = 8MHz, VBW = 8MHz, Detector = Peak

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10.4.2 輸出功率量測

1. 將 EUT 置於發射模式。
2. 移除天線，使用 low loss cable 連接 EUT 的 antenna port 及 power meter。
3. 設定 offset $10 \cdot \log(1/\text{duty cycle})$ 。
4. 紀錄最大功率讀值並重覆在所有頻段。

10.5 天線增益及輸出功率限值計算

天線方向增益不超過 6dBi, 不需降低輸出功率限值。

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10.6 量測結果

10.6.1 載波頻率工作週期

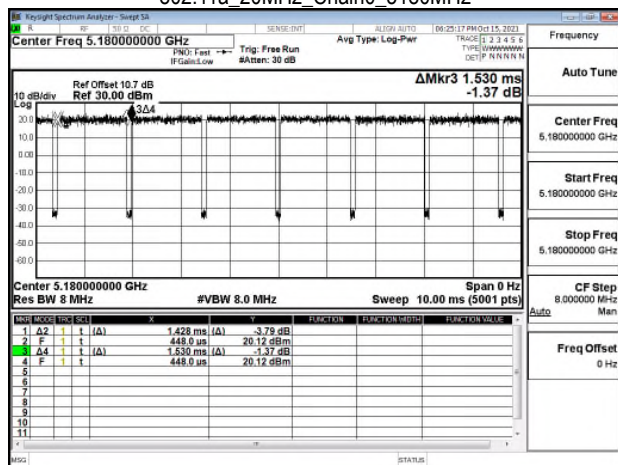
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	93.33	0.30	0.70	1.00
802.11n_20	93.33	0.30	0.70	1.00
802.11ac_20	93.07	0.31	0.74	1.00
802.11n_40	86.68	0.62	1.51	2.00
802.11ac_40	86.68	0.62	1.51	2.00
802.11ac_80	76.50	1.16	3.01	4.00

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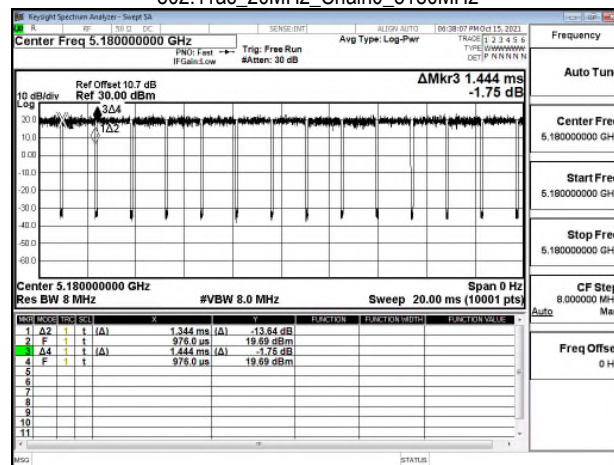
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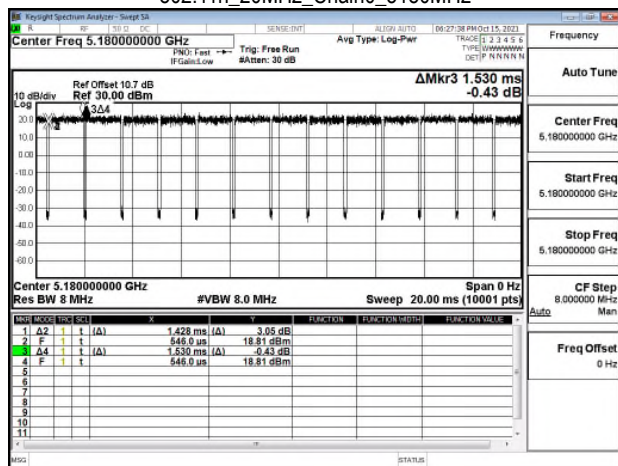
802.11a_20MHz_Chain0_5180MHz



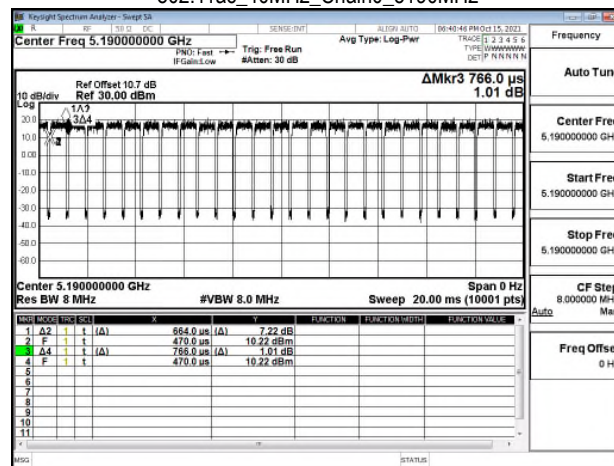
802.11ac_20MHz_Chain0_5180MHz



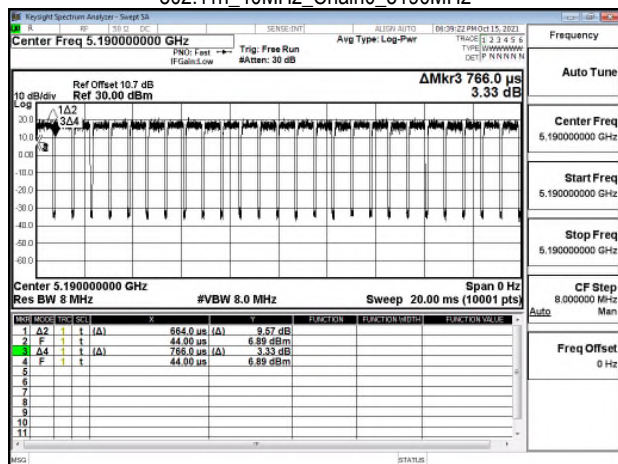
802.11n_20MHz_Chain0_5180MHz



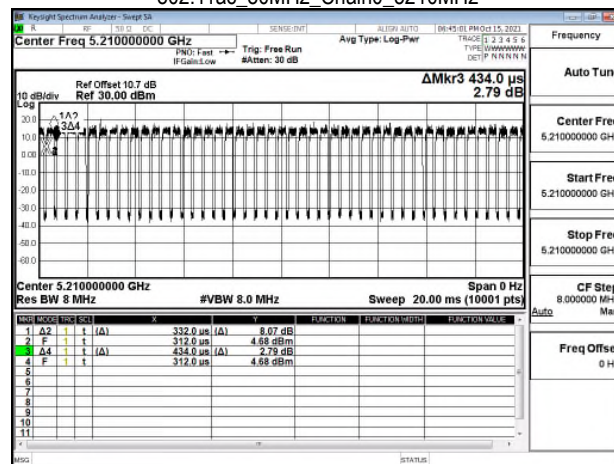
802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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10.6.2 輸出功率之量測結果

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	15	14.87	30.689	30	PASS
44	5220	6	19	18.66	73.448	30	PASS
48	5240	6	19	18.65	73.279	30	PASS
149	5745	6	20	18.64	73.110	30	PASS
157	5785	6	20	18.67	73.617	30	PASS
165	5825	6	21	18.87	77.087	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12	11.59	14.420	30	PASS
44	5220	MCS0	19	18.64	73.110	30	PASS
48	5240	MCS0	19	18.58	72.107	30	PASS
149	5745	MCS0	20	18.65	73.279	30	PASS
157	5785	MCS0	20	18.67	73.617	30	PASS
165	5825	MCS0	21	18.92	77.979	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12	12.79	19.014	30	PASS
46	5230	MCS0	19	18.80	75.872	30	PASS
151	5755	MCS0	20	18.96	78.719	30	PASS
159	5795	MCS0	20	18.86	76.927	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12	11.54	14.262	30	PASS
44	5220	MCS0	19	18.62	72.810	30	PASS
48	5240	MCS0	19	18.55	71.646	30	PASS
149	5745	MCS0	20	18.61	72.642	30	PASS
157	5785	MCS0	20	18.62	72.810	30	PASS
165	5825	MCS0	21	18.88	77.302	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12	12.75	18.840	30	PASS
46	5230	MCS0	19	18.73	74.659	30	PASS
151	5755	MCS0	20	18.86	76.927	30	PASS
159	5795	MCS0	20	18.83	76.398	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9	9.71	9.361	30	PASS
155	5775	MCS0	20	18.71	74.360	30	PASS

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11 功率密度之限制

11.1 適用標準

依據NCC低功率射頻器材技術規範5.7.3節之要求

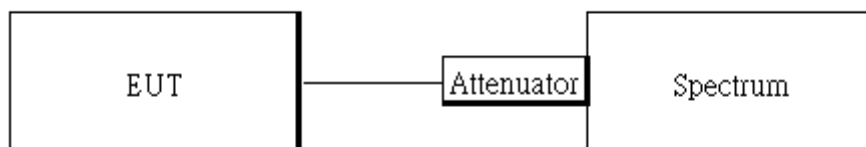
Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
	V	Indoor Access Point (Master)	17dBm/ MHz	6dBi
		Fixed point-to-point Access Point	17dBm/ MHz	23dBi
		Client device	11dBm/ MHz	6dBi
U-NII-2A		All	11dBm/ MHz	6dBi
U-NII-2C		All	11dBm/ MHz	6dBi
U-NII-3	V	All	30dBm/ 500kHz	6dBi

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

11.2 量測儀器

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF158	11/19/2020	11/18/2021

11.3 測試配置



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11.4 測試方式

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz/RBW})$ to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log (1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

11.5 天線增益及最大功率頻譜密度限值計算

天線方向增益不超過 6dBi, 不需降低最大功率頻譜密度限值。

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11.6 功率密度量測結果

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.11	0.30	6.41		17.00 dBm/MHz	-10.59
5220	9.71	0.30	10.01		17.00 dBm/MHz	-6.99
5240	9.38	0.30	9.68		17.00 dBm/MHz	-7.32
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	5.14	0.30	2.22	7.66	30.00 dBm/500kHz	-22.35
5785	4.67	0.30	2.22	7.19	30.00 dBm/500kHz	-22.81
5825	6.00	0.30	2.22	8.52	30.00 dBm/500kHz	-21.48
POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	2.14	0.30	2.44		17.00 dBm/MHz	-14.56
5220	9.19	0.30	9.49		17.00 dBm/MHz	-7.52
5240	8.90	0.30	9.20		17.00 dBm/MHz	-7.80
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5745	4.81	0.30	2.22	7.33	30.00 dBm/500kHz	-22.68
5785	4.32	0.30	2.22	6.84	30.00 dBm/500kHz	-23.16
5825	4.34	0.30	2.22	6.86	30.00 dBm/500kHz	-23.14
POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-1.36	0.62	-0.74		17.00 dBm/MHz	-17.74
5230	6.47	0.62	7.09		17.00 dBm/MHz	-9.91
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5755	1.41	0.62	2.22	4.25	30.00 dBm/500kHz	-25.75
5795	1.60	0.62	2.22	4.44	30.00 dBm/500kHz	-25.56

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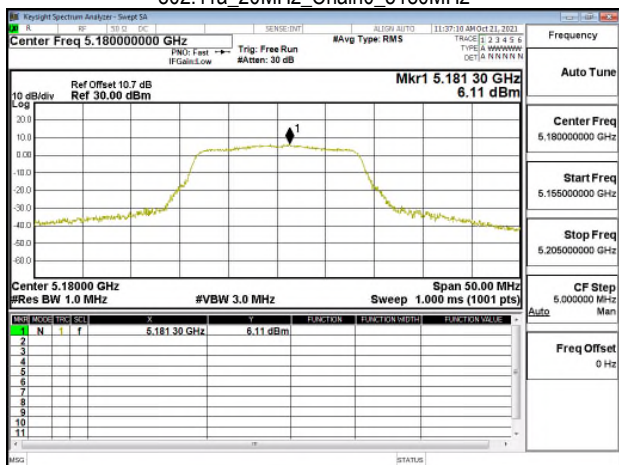
POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-7.65	1.16	-6.49		17.00 dBm/MHz	-23.49
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5775	-2.15	1.16	2.22	1.23	30.00 dBm/500kHz	-28.77

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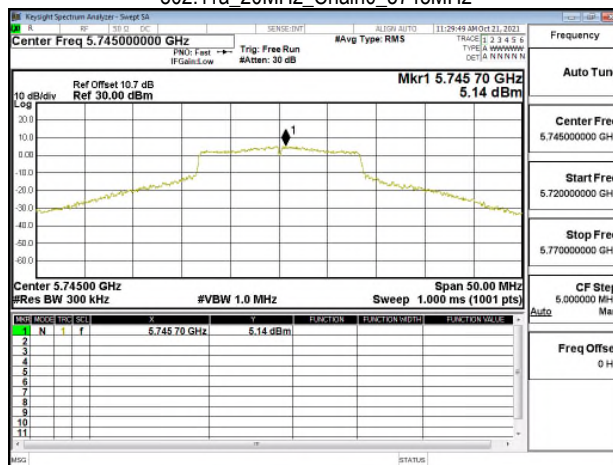
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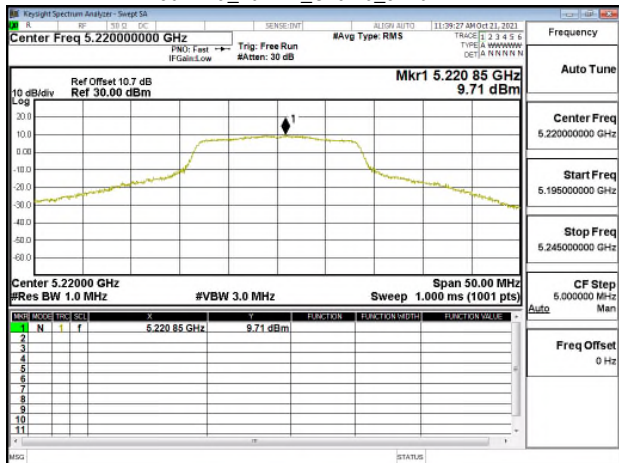
802.11a_20MHz_Chain0_5180MHz



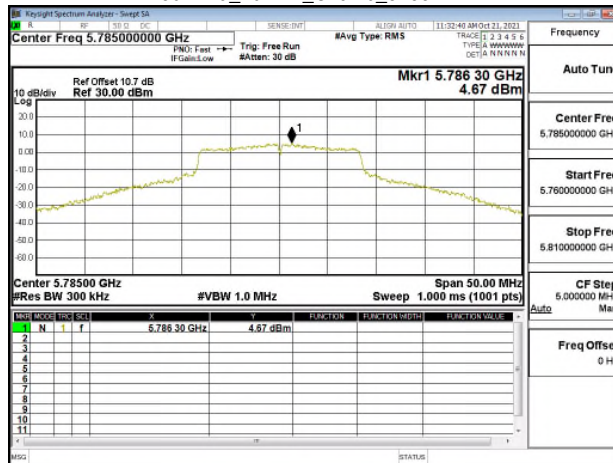
802.11a_20MHz_Chain0_5745MHz



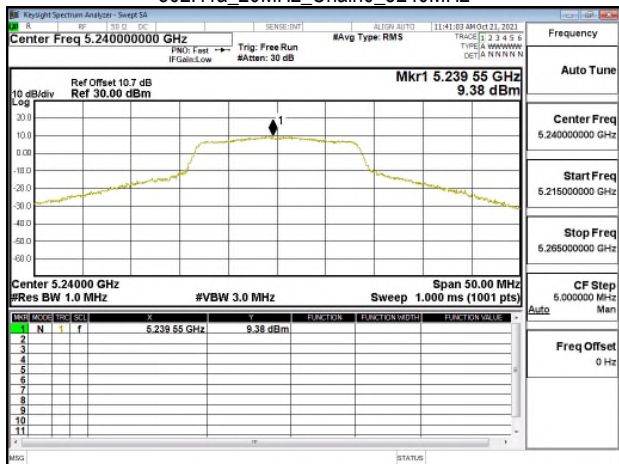
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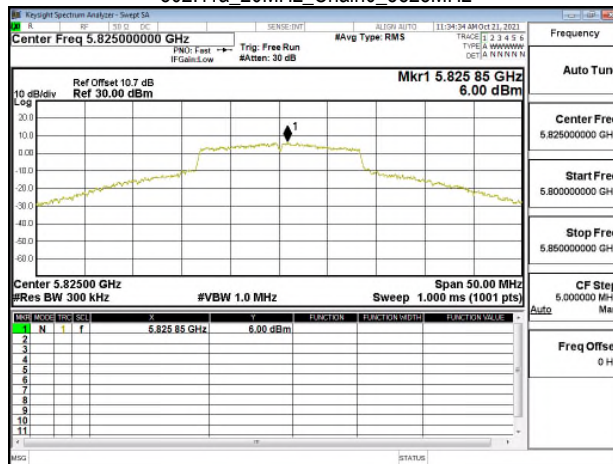
802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5825MHz

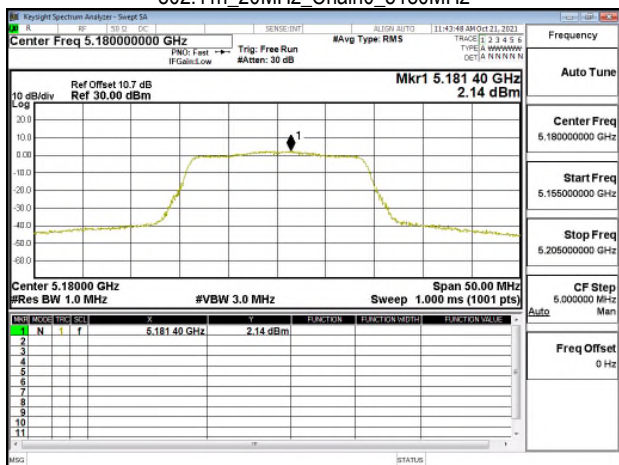


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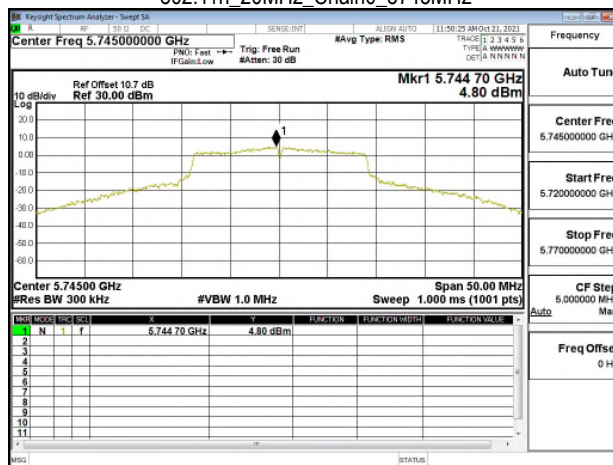
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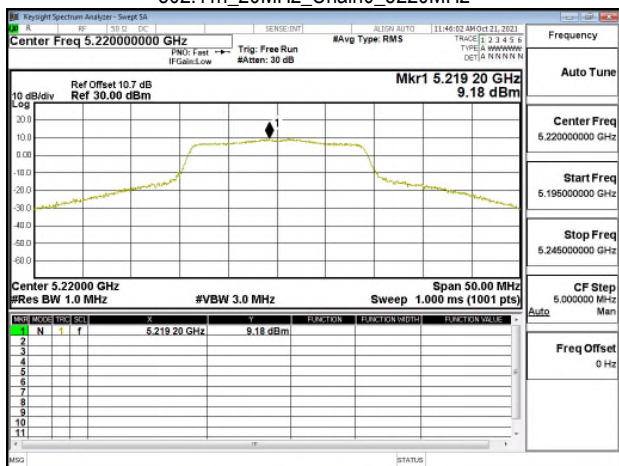
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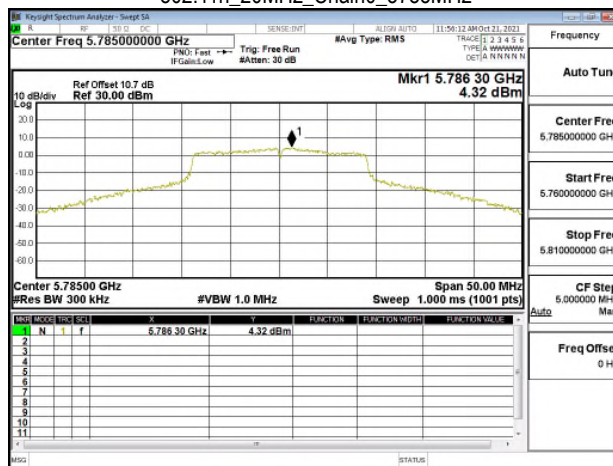
802.11n_20MHz_Chain0_5745MHz



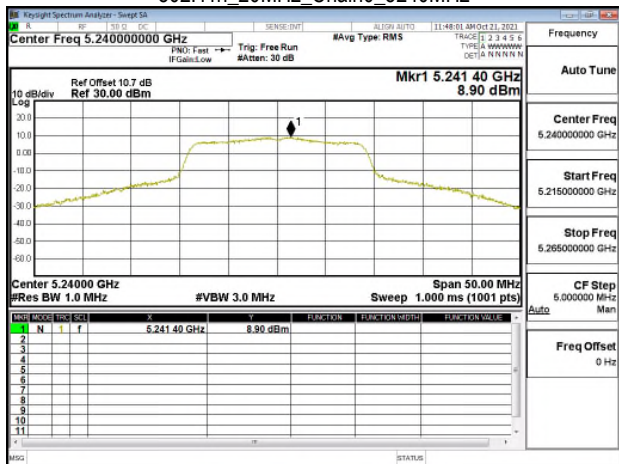
802.11n_20MHz_Chain0_5220MHz



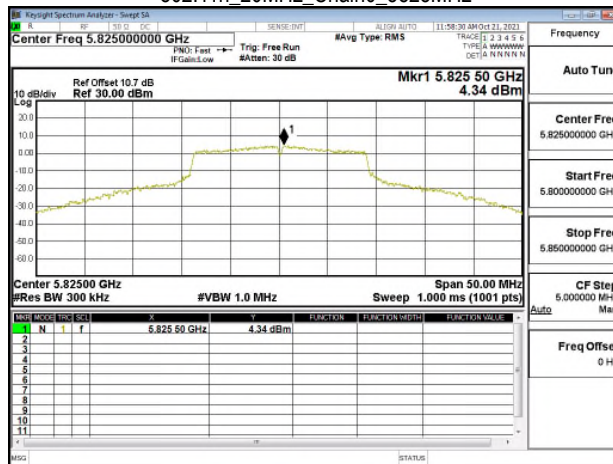
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5825MHz

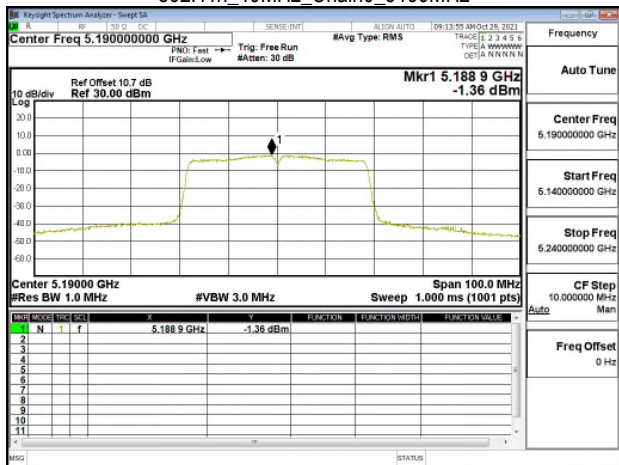


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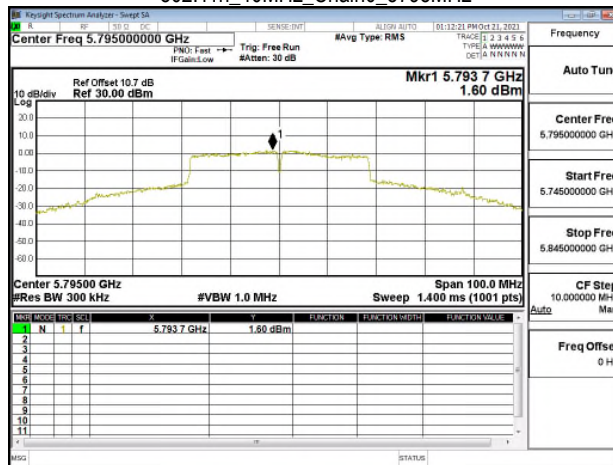
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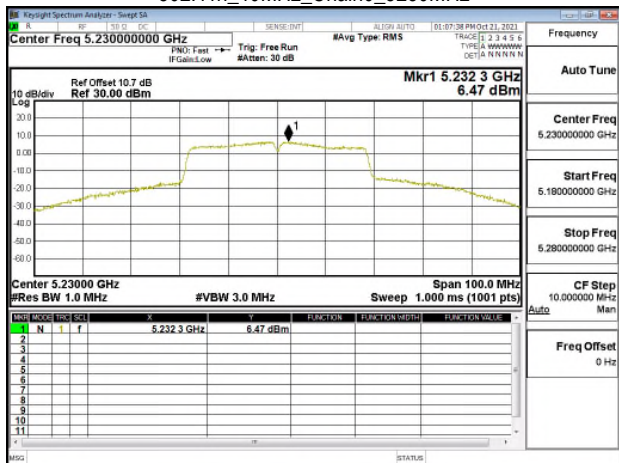
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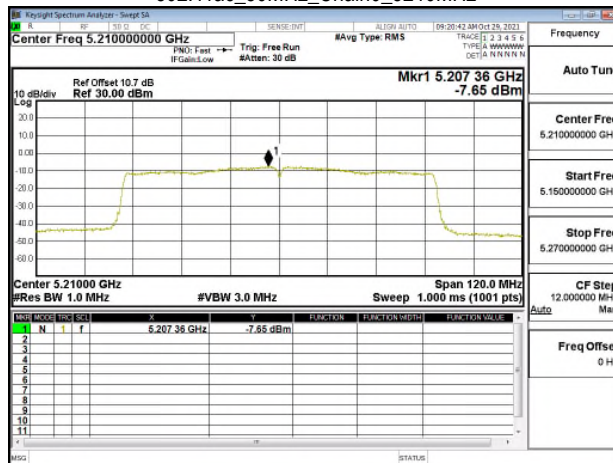
802.11n_40MHz_Chain0_5795MHz



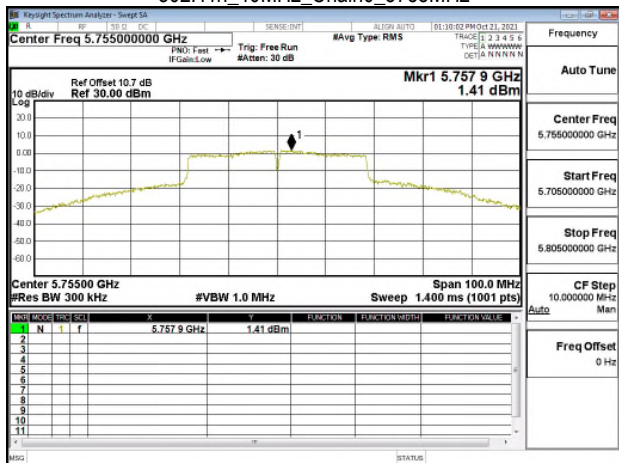
802.11n_40MHz_Chain0_5230MHz



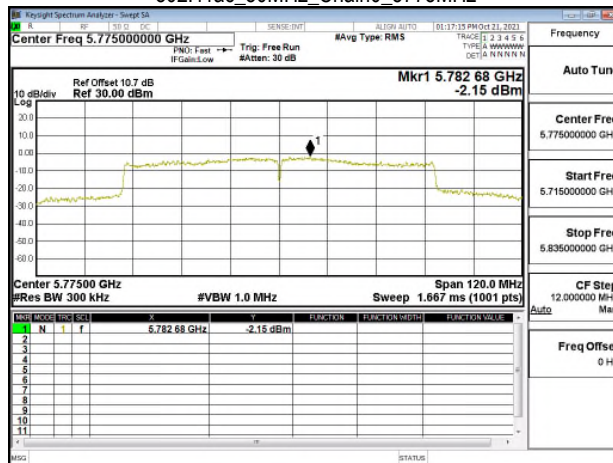
802.11ac_80MHz_Chain0_5210MHz



802.11n_40MHz_Chain0_5755MHz



802.11ac_80MHz_Chain0_5775MHz



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12 不必要發射限制之量測

12.1 適用標準

依據NCC低功率射頻器材技術規範5.7.4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) $\leq$ -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) $\leq$ 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(EIRP) $\leq$ 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) $\leq$ 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 $\geq$ 75 MHz 的頻率之發射，有效等向輻射功率(EIRP) $\leq$ -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	68.2
5250 – 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5850	-27	68.2

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

= 68.2dBuV/m

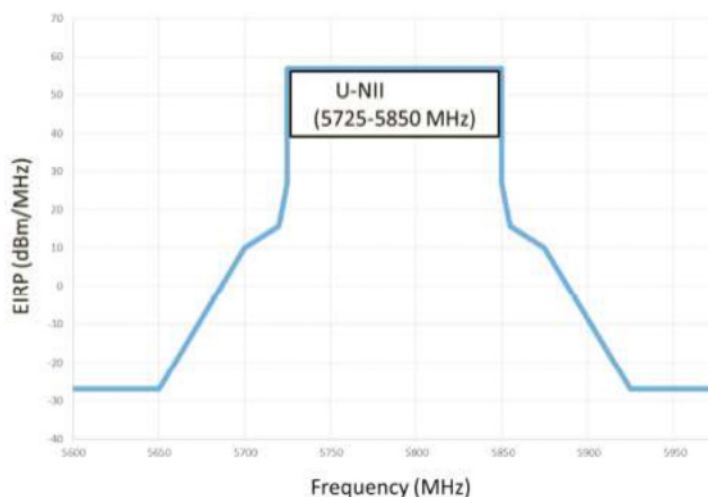


圖1

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12.2 量測儀器

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
Highpass Filter	WI	WHKX10-2624-3200- 1800-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-6090-7000- 17000-80SS	1	05/10/2021	05/09/2022
Highpass Filter	WI	WHKX10-1066-1300- 1500-80SS	18	05/10/2021	05/09/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM- 8000-5000-2000	210216 、 210217 、 210218	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC104-SM-SM- 8000-5000-5000	210219 、 210220 、 210221	03/15/2021	03/14/2022
Coaxial Cable	EMC Instruments	EMC105-NM-NM- 5000-15000	210224 、 210306	03/15/2021	03/14/2022

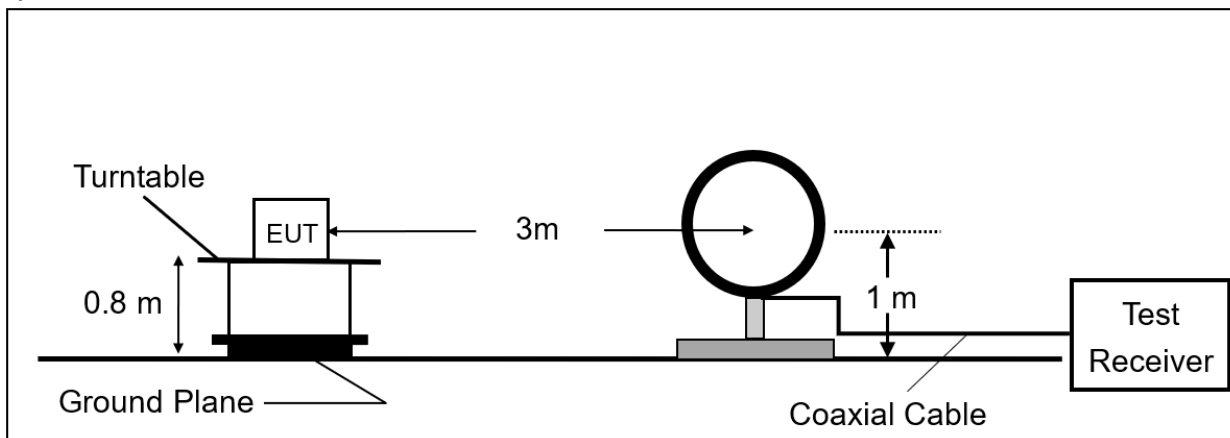
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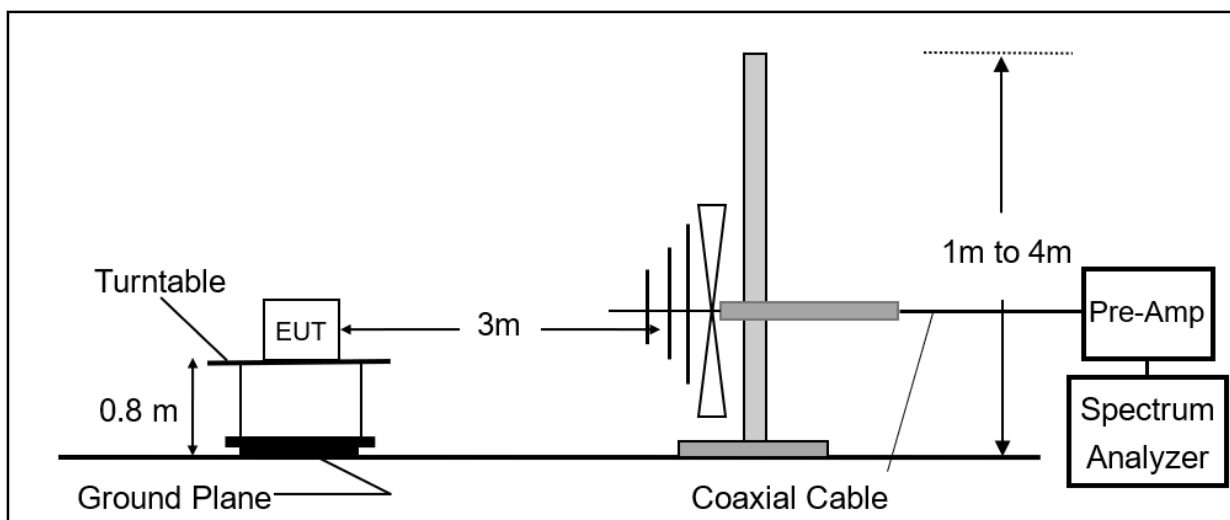
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12.3 輻射之測試配置

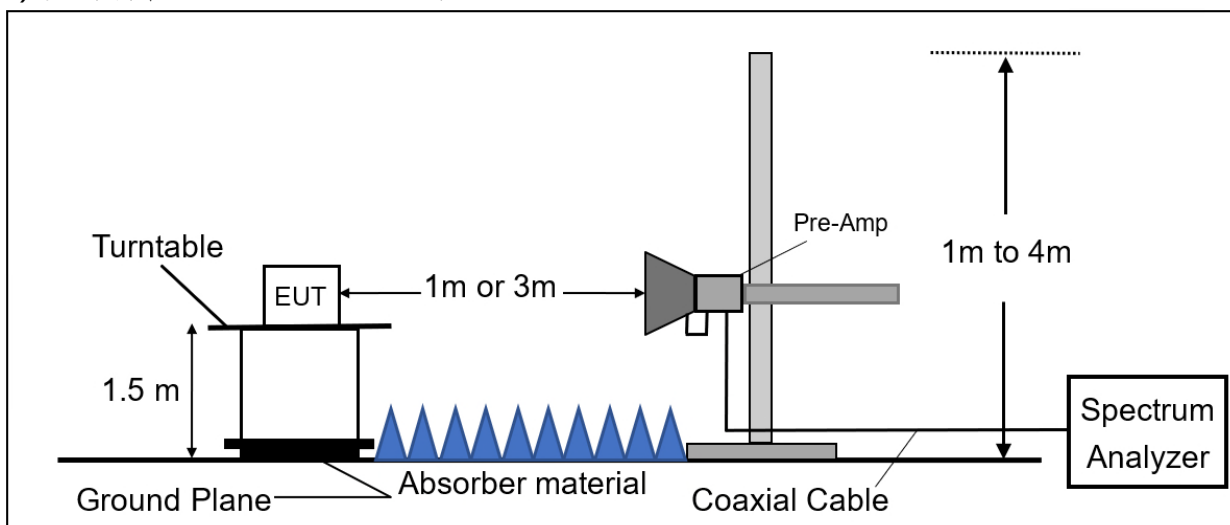
(A) 量測頻率低於 30MHz 以下之測試配置



(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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12.4 量測方法

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。

以下為頻譜儀的設定：

頻率	RBW	VBW	Detector
9kHz~150kHz	300Hz	300Hz	Quasi-Peak
150kHz~30MHz	10kHz	10kHz	Quasi-Peak
30MHz~1GHz	100kHz	300kHz	Peak
30MHz~1GHz	120kHz	360kHz	Quasi-Peak
1GHz以上 Maximum Emission Measurements	1MHz	3MHz	Peak
1GHz以上 Duty Cycle ≥ 98% Average Emission Measurements	1MHz	10Hz	Peak
1GHz以上 Duty Cycle < 98% Average Emission Measurements	1MHz	1/T	Peak

12.5 場強計算

- Distance extrapolation = $40 \cdot \log (\text{Required Distance(m)} / \text{Test Distance(m)})$
- Emission level (dBμV/m) = $20 \log \text{Emission level } (\mu\text{V/m})$
- Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)
Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

註：

9 kHz ~ 30MHz 之輻射量測皆低於限制值 20dB 以上，依據LP0002 6.13規定混附發射毋需記錄。輻射量測僅放最差模式（30MHz 以上）。

比較H、E1和E2 Plane測試值後，附上最差模式數據。

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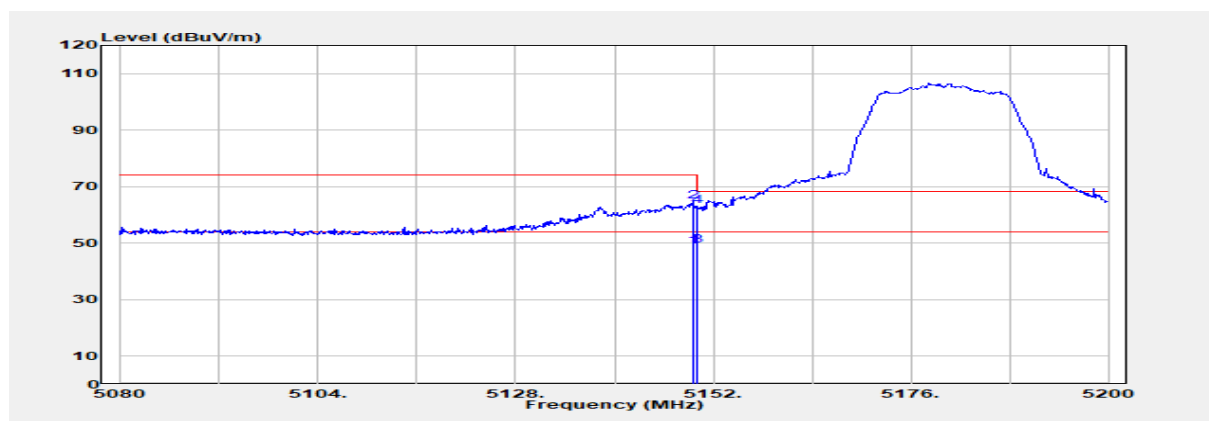
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12.6 禁用頻帶邊緣量測

Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :24.9/65
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.480	Average	45.65	3.02	48.67	54.00	-5.33
5149.480	Peak	61.69	3.02	64.70	74.00	-9.30
5150.000	Average	45.93	3.03	48.96	54.00	-5.04
5150.000	Peak	60.07	3.03	63.10	74.00	-10.90

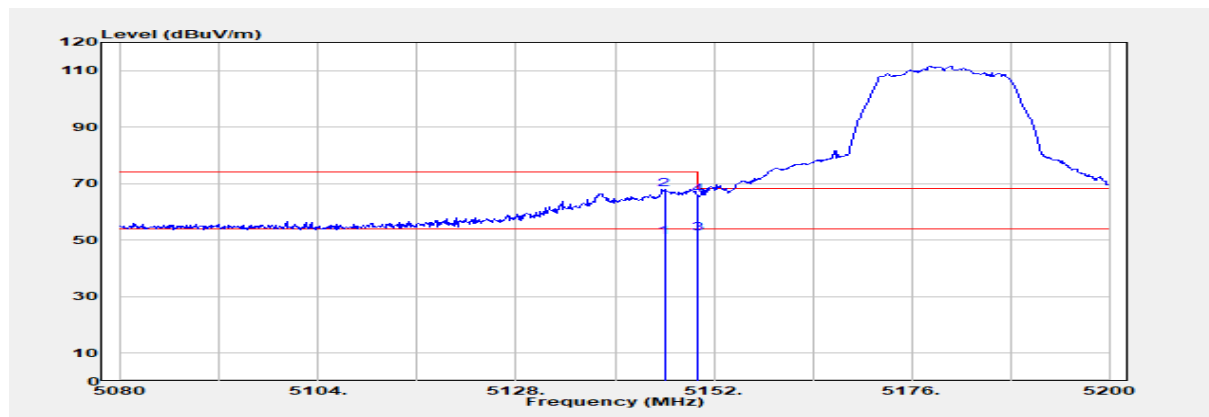
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :24.9/65
Antenna Pol. :Horizontal
Engineer :Jason Yeh



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
5146.000	Average	48.23	2.93	51.16	54.00	-2.84
5146.000	Peak	65.13	2.93	68.06	74.00	-5.94
5150.000	Average	49.45	3.03	52.48	54.00	-1.53
5150.000	Peak	63.04	3.03	66.07	74.00	-7.93

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-10-18

Test Frequency :5240 MHz

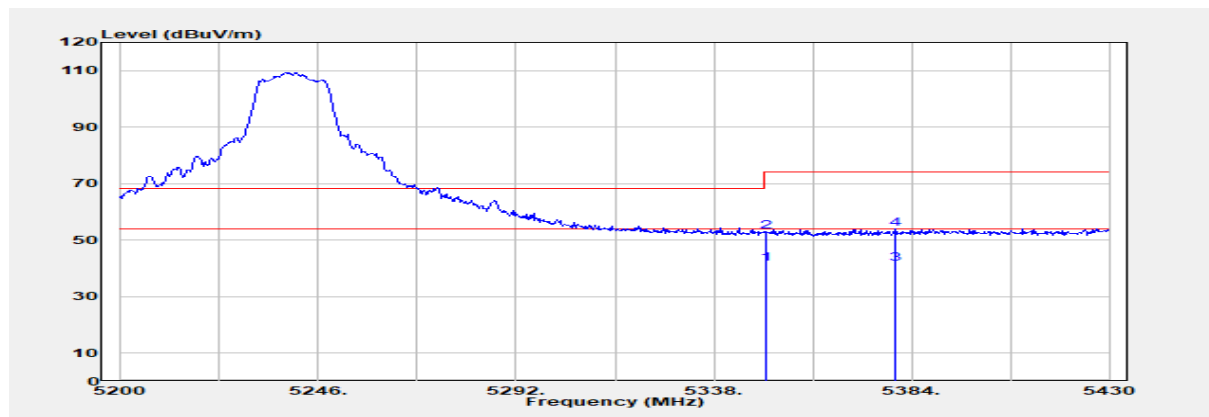
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	39.49	2.21	41.70	54.00	-12.30
5350.000	Peak	50.69	2.21	52.90	74.00	-21.10
5380.090	Average	39.20	2.34	41.54	54.00	-12.46
5380.090	Peak	51.57	2.34	53.91	74.00	-20.09

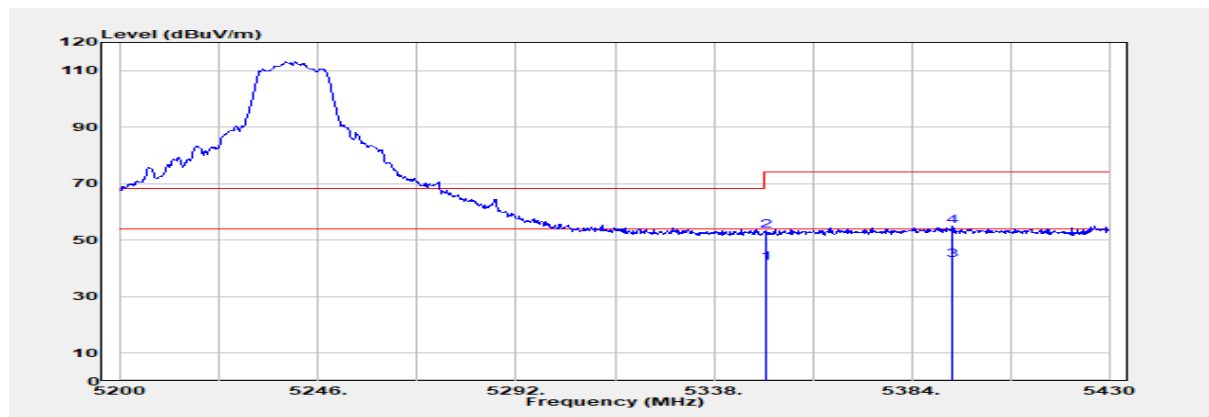
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-18
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.000	Average	39.62	2.21	41.83	54.00	-12.17
5350.000	Peak	51.12	2.21	53.33	74.00	-20.67
5393.660	Average	40.31	2.59	42.90	54.00	-11.10
5393.660	Peak	52.41	2.59	55.00	74.00	-19.00

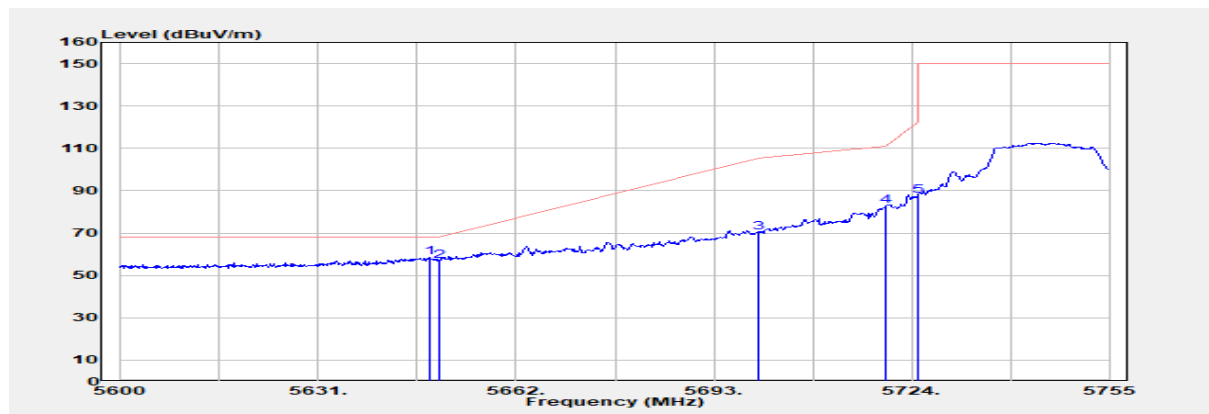
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :22.5/68
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5648.515	Peak	54.79	3.57	58.37	68.20	-9.83
5650.000	Peak	53.17	3.60	56.77	68.20	-11.43
5700.000	Peak	67.13	3.31	70.44	105.20	-34.76
5720.000	Peak	78.59	4.17	82.76	110.80	-28.04
5725.000	Peak	83.58	4.21	87.79	122.20	-34.41

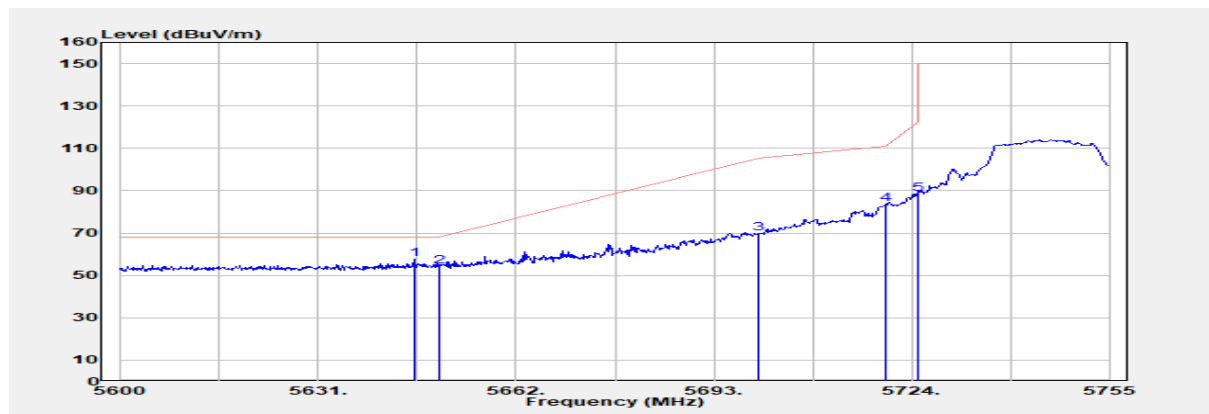
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :BE CH LOW
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :22.5/68
Antenna Pol. :Horizontal
Engineer :Jason Yeh



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
5646.035	Peak	54.20	3.52	57.73	68.20	-10.47
5650.000	Peak	50.54	3.60	54.14	68.20	-14.06
5700.000	Peak	66.68	3.31	69.99	105.20	-35.21
5720.000	Peak	79.68	4.17	83.85	110.80	-26.95
5725.000	Peak	84.15	4.21	88.36	122.20	-33.84

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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :BE CH HIGH
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :22.5/68
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	82.98	4.31	87.29	122.20	-34.91
5855.000	Peak	76.86	4.21	81.07	110.80	-29.73
5875.000	Peak	69.82	3.90	73.72	105.20	-31.48
5925.000	Peak	51.83	4.36	56.19	68.20	-12.01
5930.970	Peak	53.48	4.32	57.80	68.20	-10.40

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11a / Band 4

Test Date :2021-10-20

Test Frequency :5825 MHz

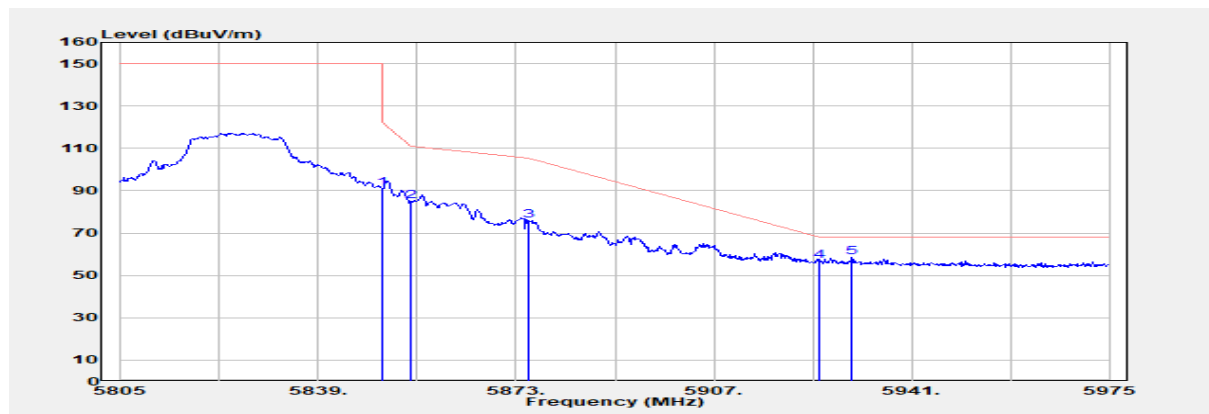
Temp./Humi. :22.5/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5850.000	Peak	86.63	4.31	90.94	122.20	-31.26
5855.000	Peak	80.64	4.21	84.85	110.80	-25.95
5875.000	Peak	72.09	3.90	75.99	105.20	-29.21
5925.000	Peak	52.35	4.36	56.71	68.20	-11.49
5930.800	Peak	54.13	4.32	58.45	68.20	-9.75

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5180 MHz

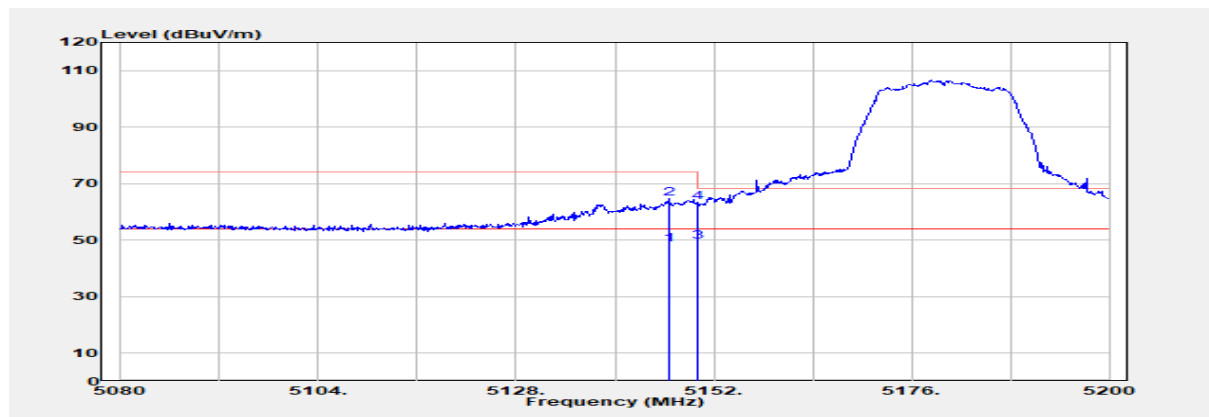
Temp./Humi. :24.9/65

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.480	Average	45.37	2.95	48.31	54.00	-5.69
5146.480	Peak	61.66	2.95	64.60	74.00	-9.40
5150.000	Average	46.42	3.03	49.45	54.00	-4.55
5150.000	Peak	60.54	3.03	63.57	74.00	-10.43

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5180 MHz

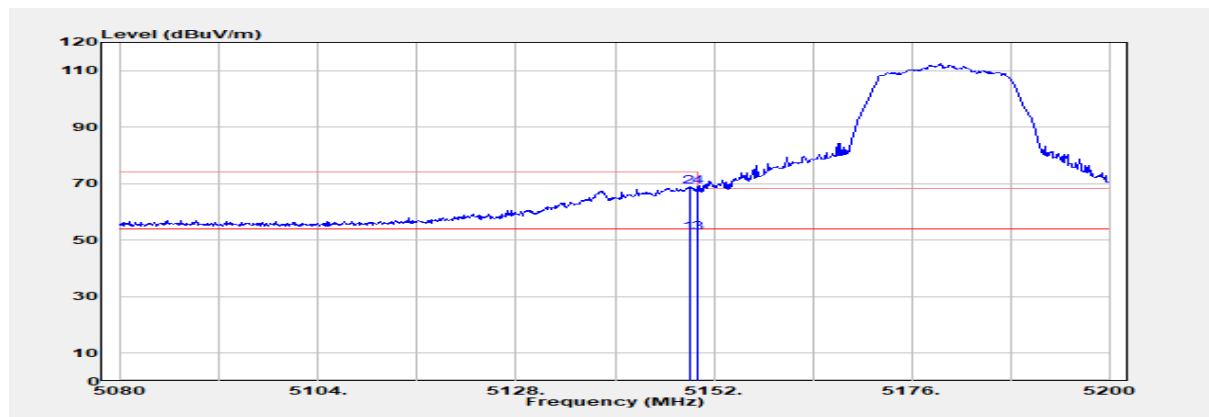
Temp./Humi. :24.9/65

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.000	Average	49.54	3.01	52.55	54.00	-1.45
5149.000	Peak	66.07	3.01	69.07	74.00	-4.93
5150.000	Average	49.77	3.03	52.80	54.00	-1.20
5150.000	Peak	65.84	3.03	68.87	74.00	-5.13

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-18

Test Frequency :5240 MHz

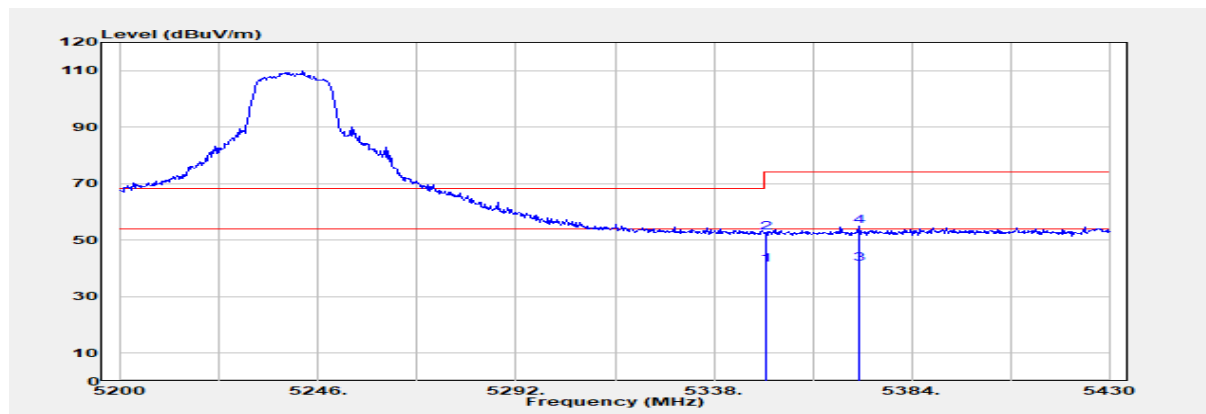
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5350.000	Average	39.21	2.21	41.42	54.00	-12.58
5350.000	Peak	50.63	2.21	52.84	74.00	-21.16
5371.810	Average	39.25	2.32	41.57	54.00	-12.43
5371.810	Peak	52.75	2.32	55.06	74.00	-18.94

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-18

Test Frequency :5240 MHz

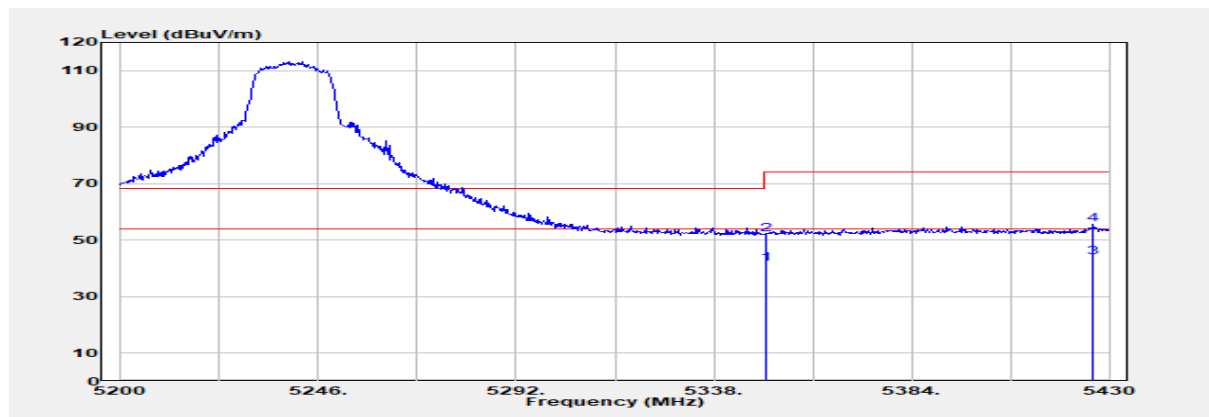
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5350.000	Average	39.42	2.21	41.63	54.00	-12.37
5350.000	Peak	49.98	2.21	52.19	74.00	-21.81
5426.320	Average	41.45	2.40	43.85	54.00	-10.15
5426.320	Peak	53.08	2.40	55.48	74.00	-18.52

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5745 MHz

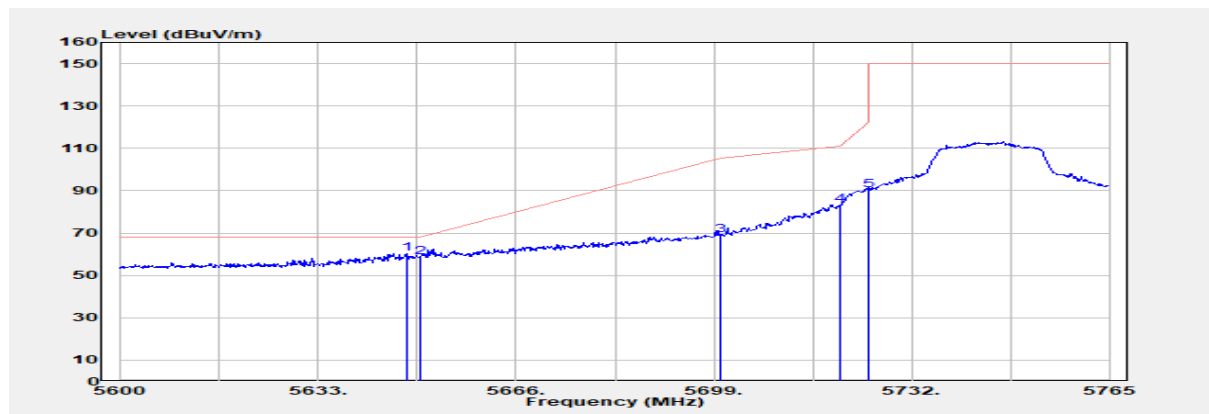
Temp./Humi. :22.5/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5647.685	Peak	56.84	3.56	60.40	68.20	-7.80
5650.000	Peak	54.74	3.60	58.34	68.20	-9.86
5700.000	Peak	65.68	3.31	68.99	105.20	-36.21
5720.000	Peak	79.01	4.17	83.18	110.80	-27.62
5725.000	Peak	85.78	4.21	89.99	122.20	-32.21

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5745 MHz

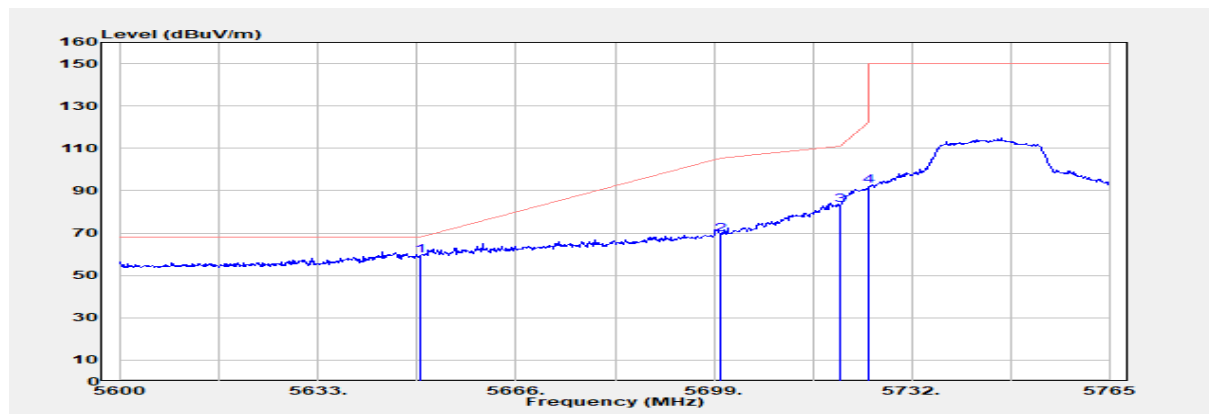
Temp./Humi. :22.5/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	55.96	3.60	59.56	68.20	-8.64
5700.000	Peak	66.11	3.31	69.42	105.20	-35.78
5720.000	Peak	79.01	4.17	83.18	110.80	-27.62
5725.000	Peak	87.96	4.21	92.17	122.20	-30.03

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5825 MHz

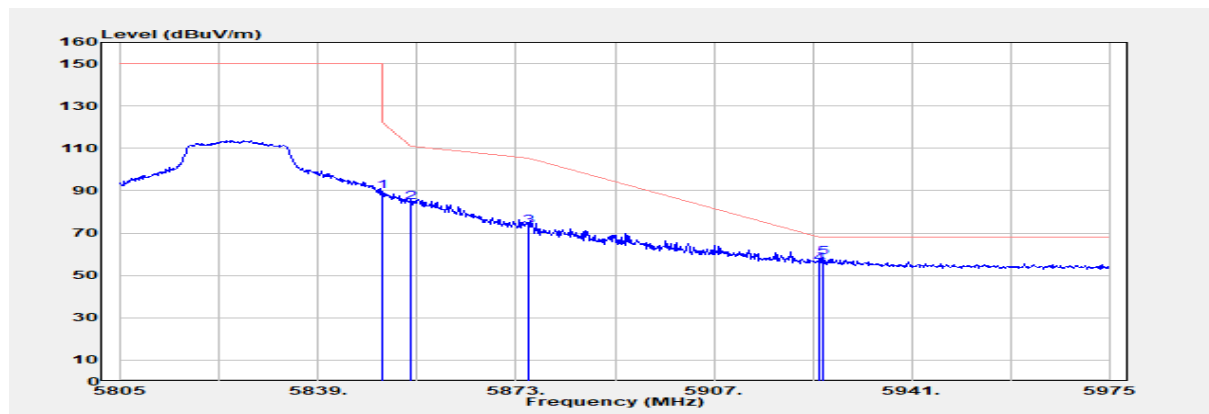
Temp./Humi. :22.5/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	85.56	4.31	89.87	122.20	-32.33
5855.000	Peak	80.29	4.21	84.50	110.80	-26.30
5875.000	Peak	69.55	3.90	73.45	105.20	-31.75
5925.000	Peak	51.10	4.36	55.45	68.20	-12.75
5925.870	Peak	54.06	4.35	58.41	68.20	-9.79

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5825 MHz

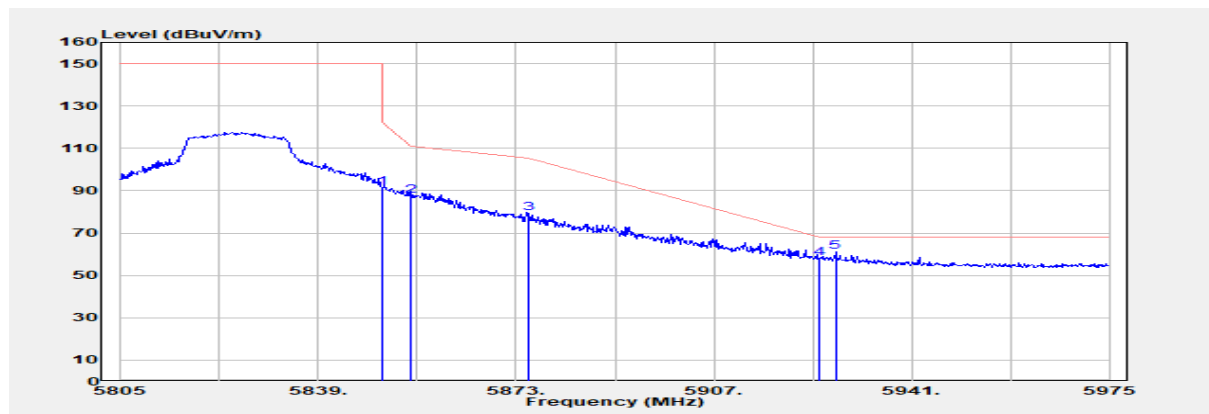
Temp./Humi. :22.5/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	87.21	4.31	91.52	122.20	-30.68
5855.000	Peak	83.34	4.21	87.55	110.80	-23.25
5875.000	Peak	75.66	3.90	79.56	105.20	-25.64
5925.000	Peak	53.90	4.36	58.25	68.20	-9.95
5927.910	Peak	56.59	4.35	60.94	68.20	-7.26

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-28

Test Frequency :5190 MHz

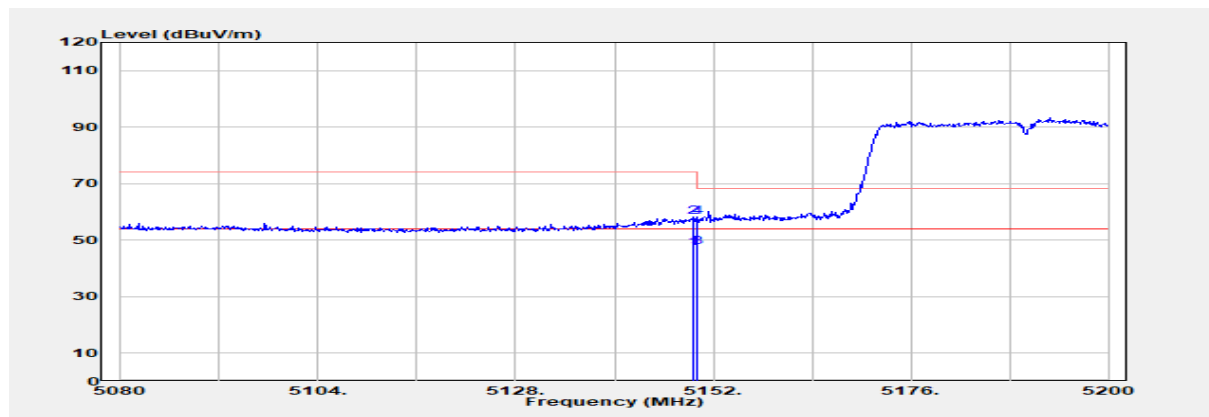
Temp./Humi. :21.5/65

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5149.480	Average	44.19	3.02	47.21	54.00	-6.79
5149.480	Peak	55.33	3.02	58.35	74.00	-15.65
5150.000	Average	44.60	3.03	47.63	54.00	-6.37
5150.000	Peak	55.30	3.03	58.33	68.20	-9.87

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-28

Test Frequency :5190 MHz

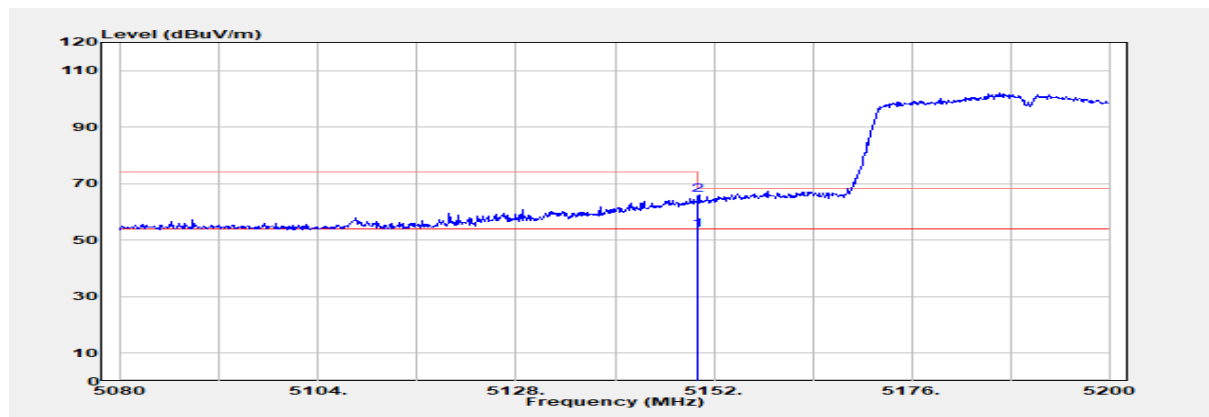
Temp./Humi. :21.5/65

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5150.000	Average	50.52	3.03	53.55	54.00	-0.46
5150.000	Peak	62.88	3.03	65.91	68.20	-2.29

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-18

Test Frequency :5230 MHz

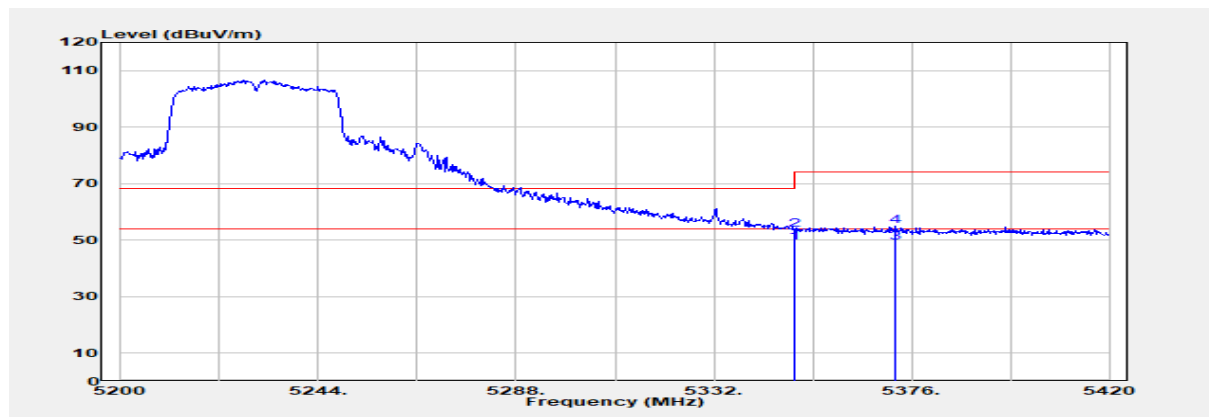
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5350.000	Average	46.79	2.21	49.00	54.00	-5.00
5350.000	Peak	51.60	2.21	53.81	74.00	-20.19
5372.480	Average	46.78	2.32	49.10	54.00	-4.90
5372.480	Peak	52.71	2.32	55.03	74.00	-18.97

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-18

Test Frequency :5230 MHz

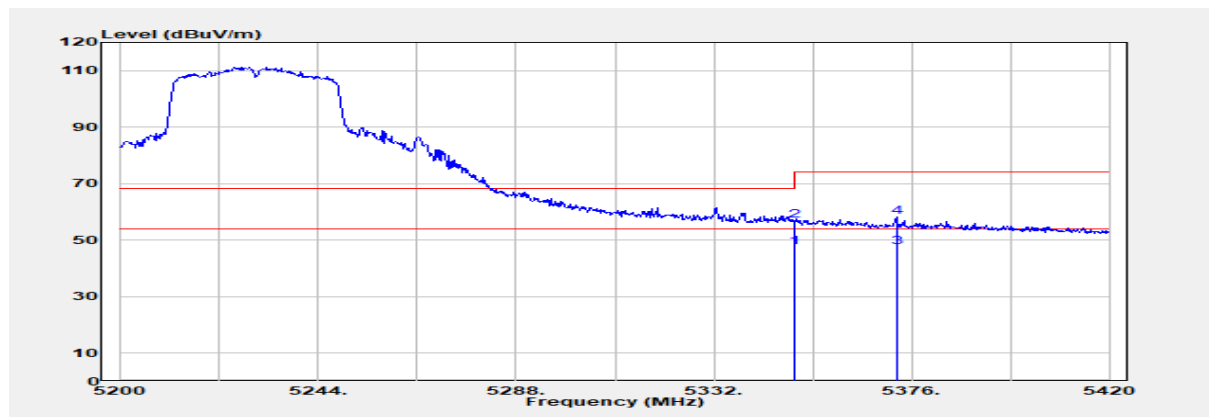
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5350.000	Average	45.32	2.21	47.53	54.00	-6.47
5350.000	Peak	54.74	2.21	56.95	74.00	-17.05
5372.700	Average	45.29	2.32	47.60	54.00	-6.40
5372.700	Peak	55.88	2.32	58.20	74.00	-15.80

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5755 MHz

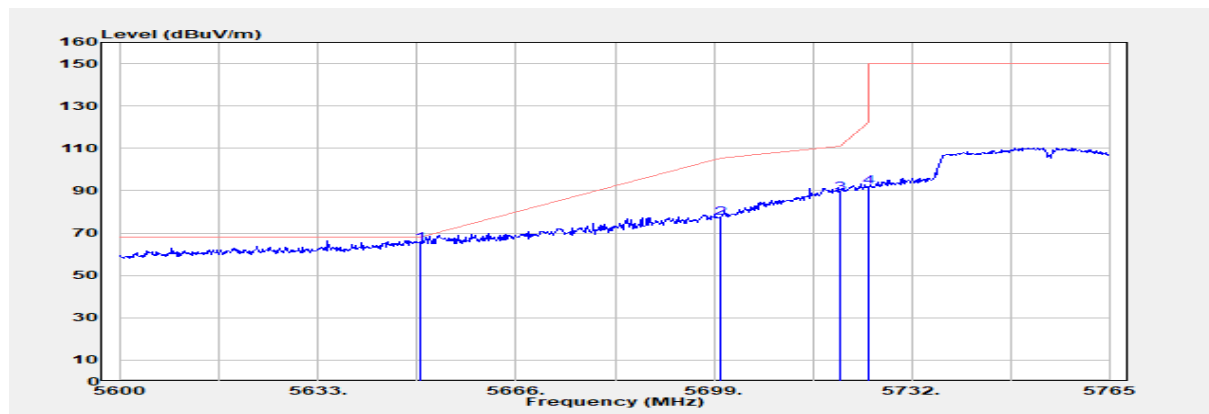
Temp./Humi. :22.5/68

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	61.43	3.60	65.03	68.20	-3.17
5700.000	Peak	73.66	3.31	76.97	105.20	-28.23
5720.000	Peak	84.89	4.17	89.06	110.80	-21.74
5725.000	Peak	87.81	4.21	92.02	122.20	-30.18

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5755 MHz

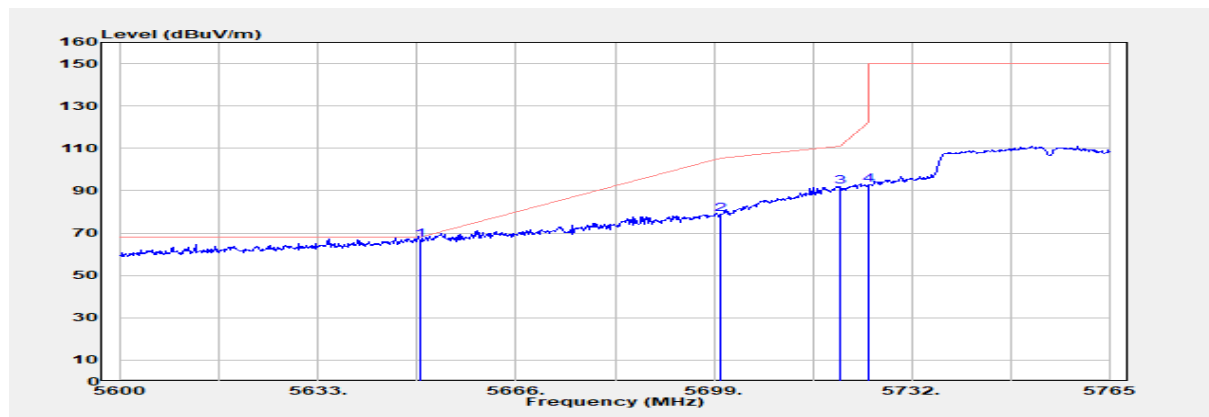
Temp./Humi. :22.5/68

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.000	Peak	63.12	3.60	66.72	68.20	-1.48
5700.000	Peak	75.43	3.31	78.74	105.20	-26.46
5720.000	Peak	87.86	4.17	92.03	110.80	-18.77
5725.000	Peak	88.65	4.21	92.86	122.20	-29.34

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5795 MHz

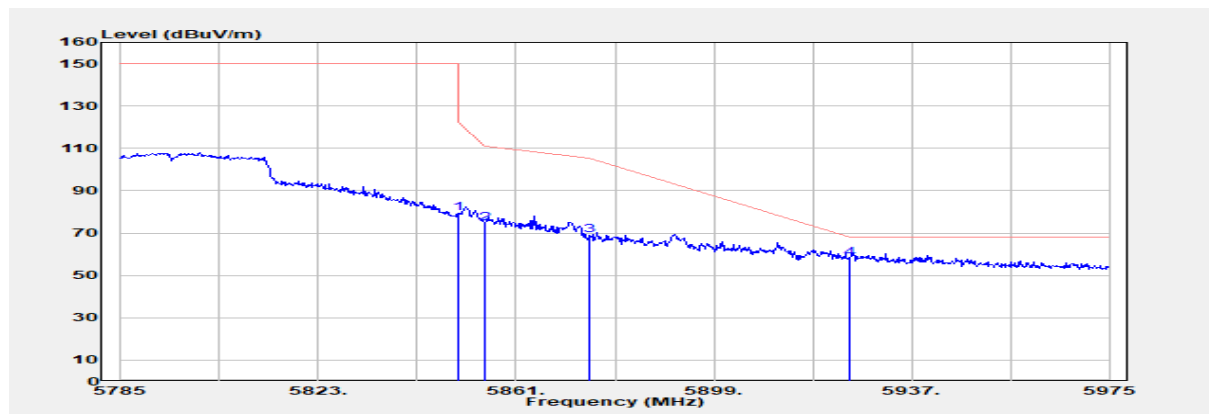
Temp./Humi. :22.5/68

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	75.25	4.31	79.56	122.20	-42.64
5855.000	Peak	70.44	4.21	74.65	110.80	-36.15
5875.000	Peak	65.00	3.90	68.90	105.20	-36.30
5925.000	Peak	53.61	4.36	57.97	68.20	-10.23

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5795 MHz

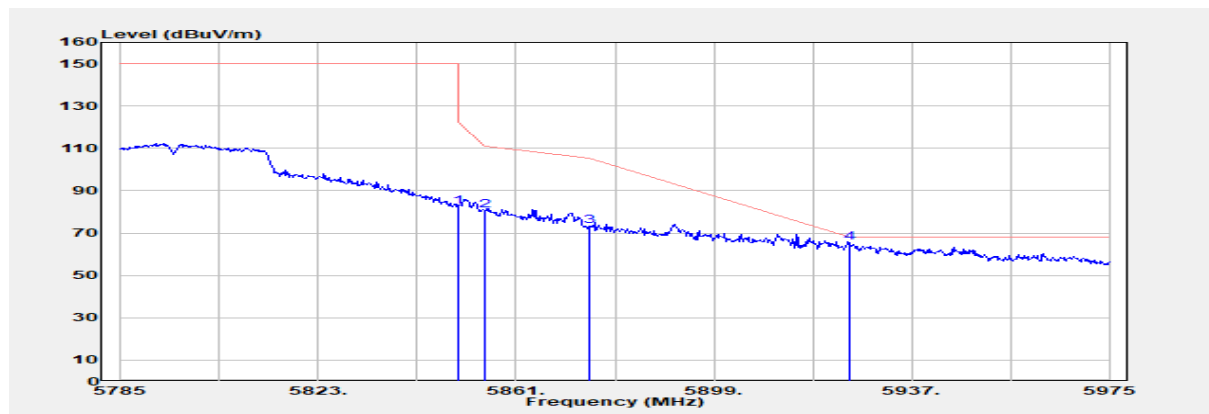
Temp./Humi. :22.5/68

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5850.000	Peak	77.89	4.31	82.20	122.20	-40.00
5855.000	Peak	76.27	4.21	80.48	110.80	-30.32
5875.000	Peak	69.59	3.90	73.49	105.20	-31.71
5925.000	Peak	61.30	4.36	65.65	68.20	-2.55

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-28

Test Frequency :5210 MHz

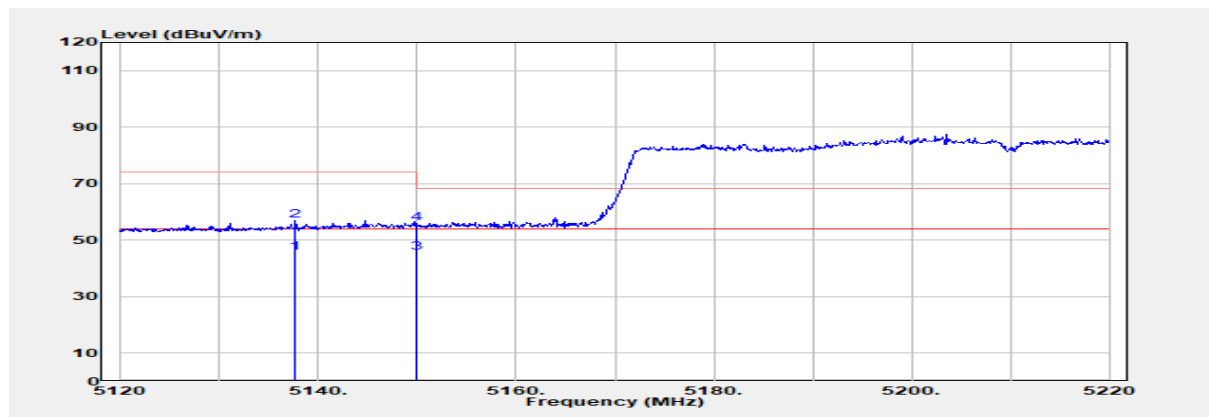
Temp./Humi. :21.5/65

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5137.700	Average	42.62	2.77	45.39	54.00	-8.61
5137.700	Peak	54.10	2.77	56.86	74.00	-17.14
5150.000	Average	42.66	3.03	45.69	54.00	-8.31
5150.000	Peak	53.04	3.03	56.07	68.20	-12.13

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-28

Test Frequency :5210 MHz

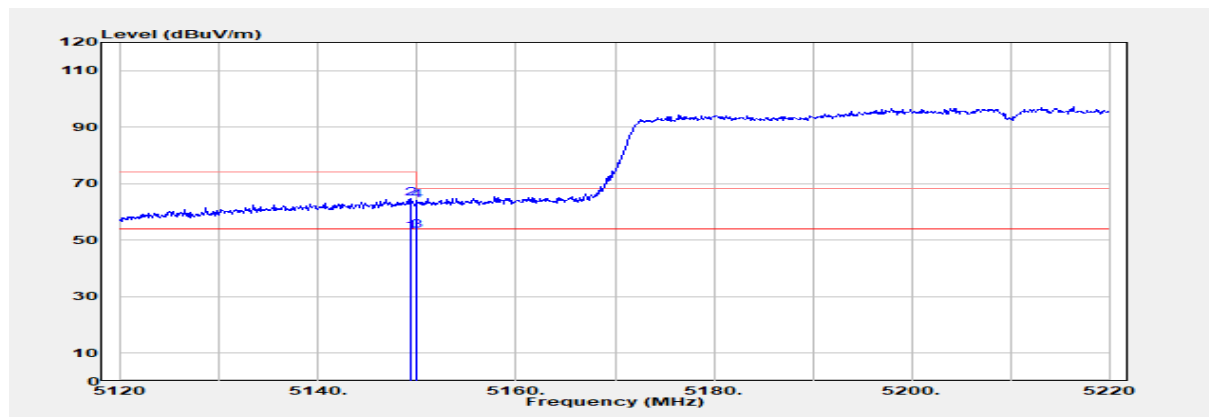
Temp./Humi. :21.5/65

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5149.300	Average	50.11	3.01	53.12	54.00	-0.88
5149.300	Peak	61.61	3.01	64.63	74.00	-9.37
5150.000	Average	50.21	3.03	53.24	54.00	-0.76
5150.000	Peak	61.06	3.03	64.09	68.20	-4.11

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-11-09

Test Frequency :5210 MHz

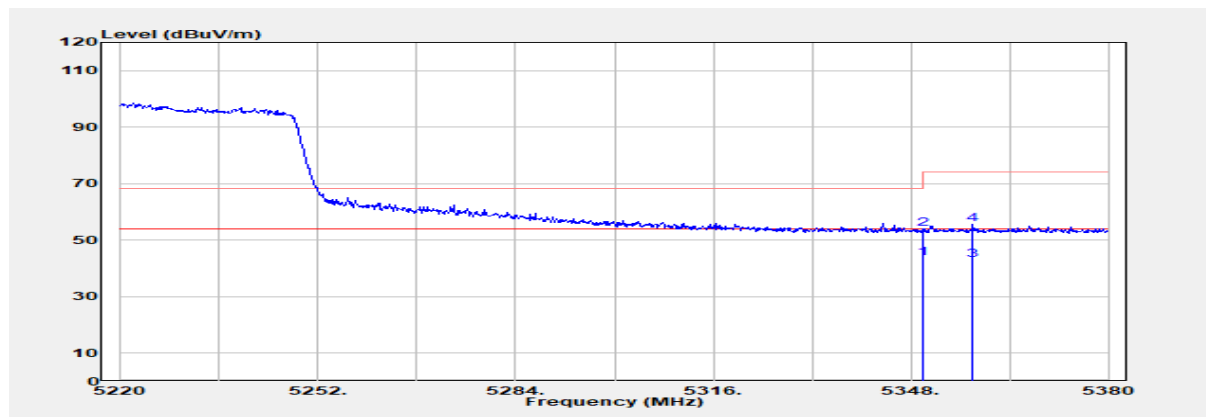
Temp./Humi. :21.5/65

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5350.000	Average	41.35	2.21	43.56	54.00	-10.44
5350.000	Peak	51.88	2.21	54.09	68.20	-14.11
5358.080	Average	40.67	2.22	42.89	54.00	-11.11
5358.080	Peak	53.33	2.22	55.55	74.00	-18.45

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-11-09

Test Frequency :5210 MHz

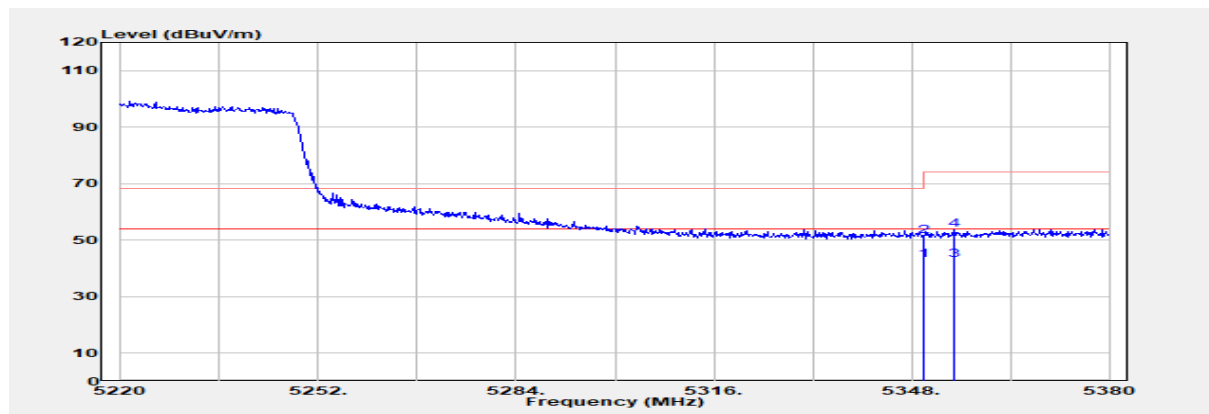
Temp./Humi. :21.5/65

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5350.000	Average	40.59	2.21	42.80	54.00	-11.20
5350.000	Peak	49.17	2.21	51.38	68.20	-16.82
5355.040	Average	40.61	2.22	42.83	54.00	-11.17
5355.040	Peak	51.56	2.22	53.77	74.00	-20.23

Report Number :E2/2021/A0003

Test Site :SAC G

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Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-18

Test Frequency :5775 MHz

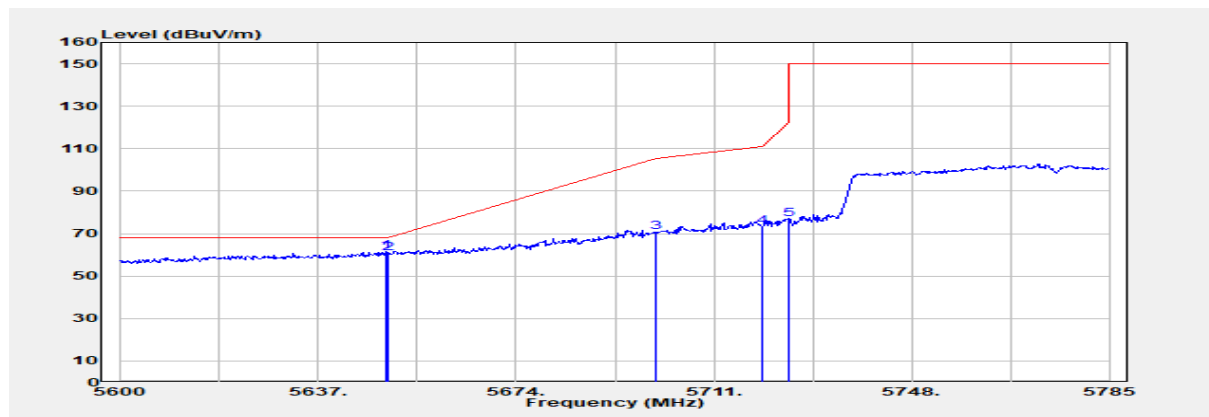
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5649.580	Peak	57.88	3.59	61.48	68.20	-6.72
5650.000	Peak	57.18	3.60	60.78	68.20	-7.42
5700.000	Peak	67.17	3.31	70.48	105.20	-34.72
5720.000	Peak	69.30	4.17	73.47	110.80	-37.33
5725.000	Peak	72.73	4.21	76.94	122.20	-45.26

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-18

Test Frequency :5775 MHz

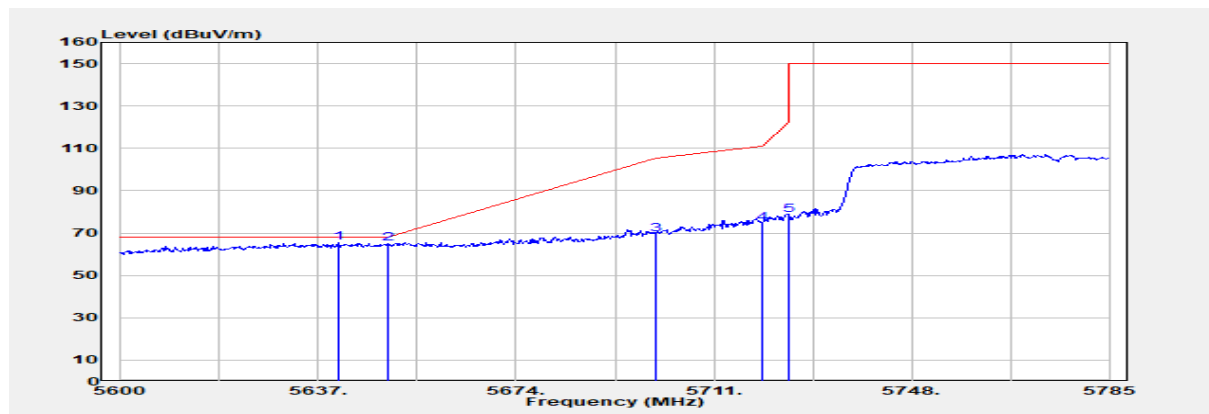
Temp./Humi. :23.8/63

Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5640.700	Peak	62.07	3.42	65.50	68.20	-2.70
5650.000	Peak	61.46	3.60	65.06	68.20	-3.14
5700.000	Peak	66.10	3.31	69.41	105.20	-35.79
5720.000	Peak	70.59	4.17	74.76	110.80	-36.04
5725.000	Peak	74.45	4.21	78.66	122.20	-43.54

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-18

Test Frequency :5775 MHz

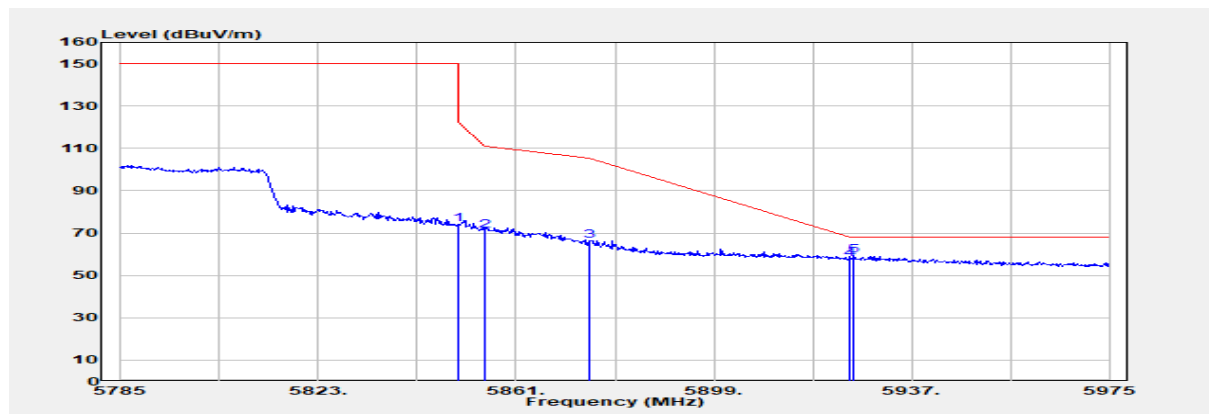
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.000	Peak	69.80	4.31	74.11	122.20	-48.09
5855.000	Peak	66.99	4.21	71.20	110.80	-39.60
5875.000	Peak	62.34	3.90	66.24	105.20	-38.96
5925.000	Peak	53.37	4.36	57.73	68.20	-10.47
5925.980	Peak	54.87	4.35	59.22	68.20	-8.98

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-18

Test Frequency :5775 MHz

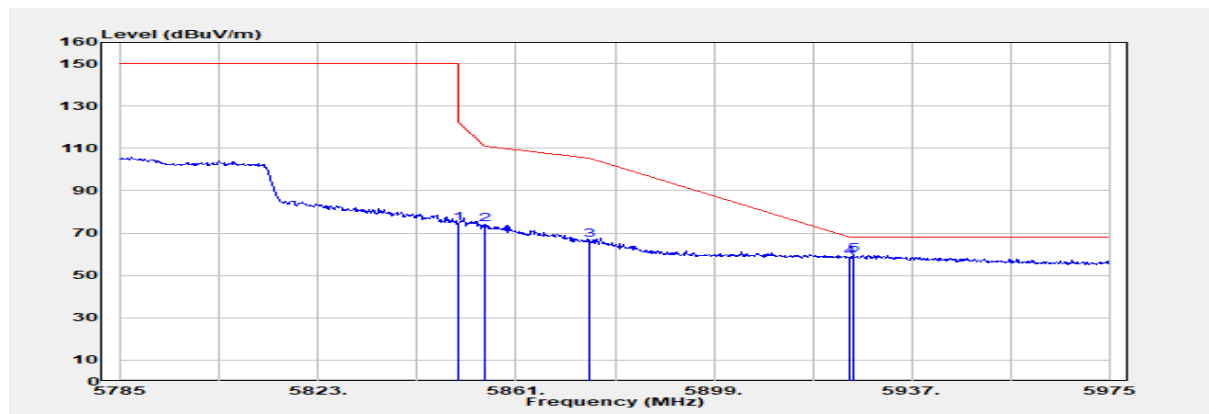
Temp./Humi. :23.8/63

Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
5850.000	Peak	70.35	4.31	74.66	122.20	-47.54
5855.000	Peak	70.03	4.21	74.24	110.80	-36.56
5875.000	Peak	62.70	3.90	66.60	105.20	-38.60
5925.000	Peak	54.14	4.36	58.49	68.20	-9.71
5925.790	Peak	55.47	4.35	59.82	68.20	-8.38

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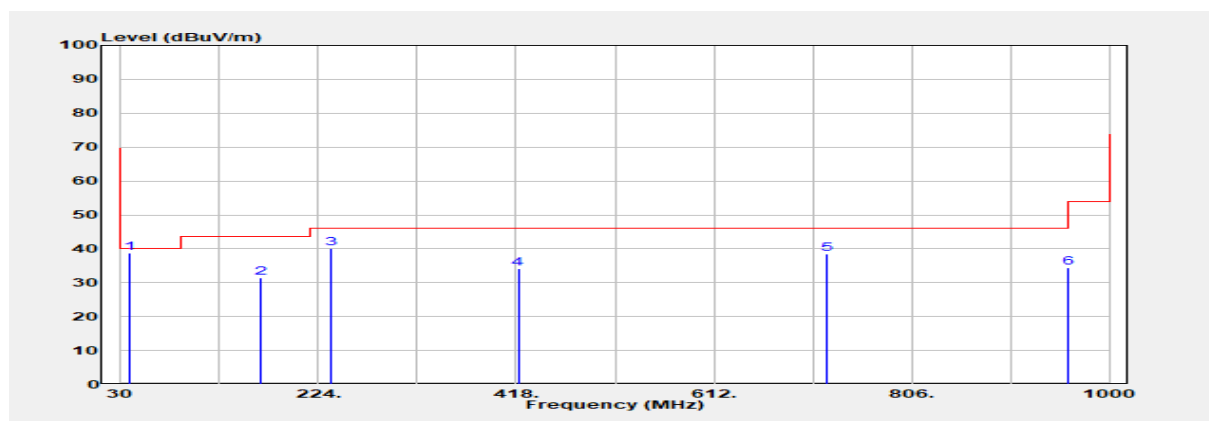
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12.7 禁用頻帶內輻射量測

Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-21
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
37.760	Peak	52.35	-13.52	38.82	40.00	-1.18
166.770	Peak	44.76	-13.42	31.35	43.50	-12.15
235.640	Peak	55.20	-14.99	40.20	46.00	-5.80
419.940	Peak	43.24	-8.99	34.26	46.00	-11.74
722.580	Peak	41.24	-2.62	38.61	46.00	-7.39
960.230	Peak	34.00	0.43	34.42	54.00	-19.58

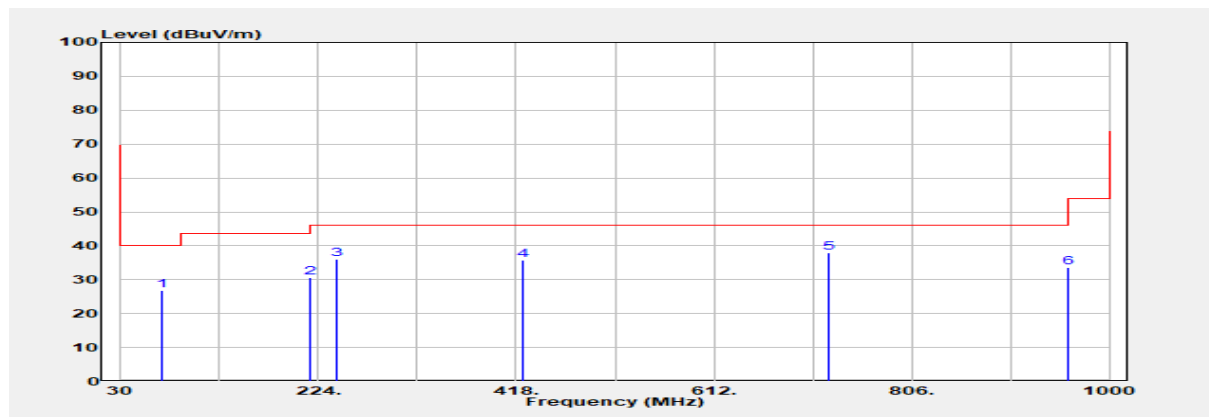
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-21
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
70.740	Peak	42.21	-15.28	26.93	40.00	-13.07
216.240	Peak	46.90	-16.32	30.58	46.00	-15.42
242.430	Peak	50.63	-14.53	36.10	46.00	-9.90
423.820	Peak	44.74	-8.91	35.83	46.00	-10.17
724.520	Peak	40.58	-2.51	38.07	46.00	-7.93
960.230	Peak	33.31	0.43	33.73	54.00	-20.27

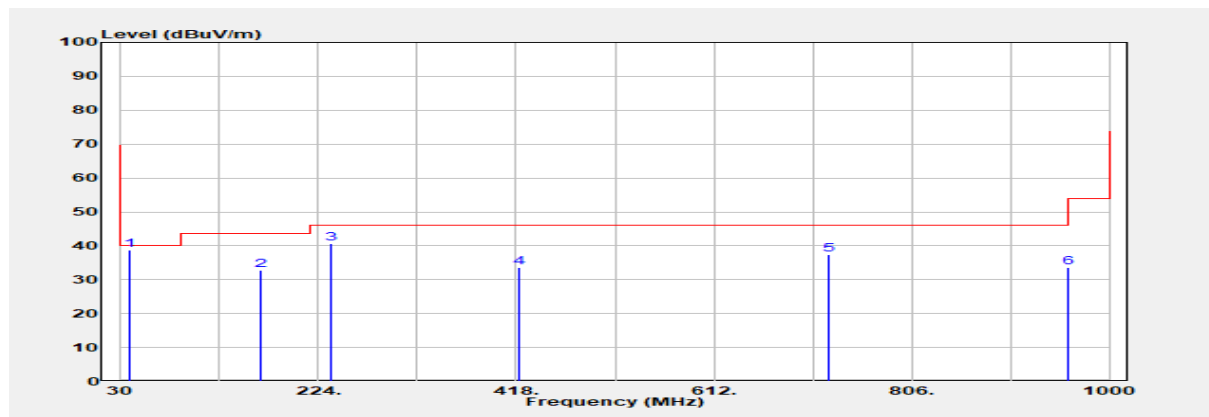
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-21
Temp./Humi. :23.8/63
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
38.730	Peak	52.13	-13.39	38.75	40.00	-1.25
167.740	Peak	46.33	-13.43	32.90	43.50	-10.60
236.610	Peak	55.50	-14.93	40.57	46.00	-5.43
420.910	Peak	42.67	-8.96	33.71	46.00	-12.29
725.490	Peak	39.96	-2.52	37.45	46.00	-8.55
960.230	Peak	33.23	0.43	33.65	54.00	-20.35

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11a / Band 4

Test Date :2021-10-21

Test Frequency :5785 MHz

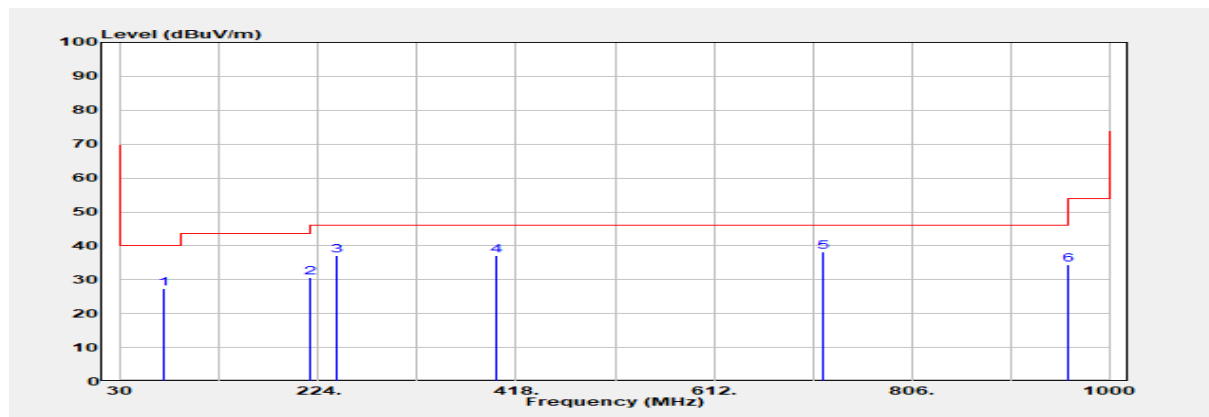
Temp./Humi. :23.8/63

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.710	Peak	42.62	-15.31	27.31	40.00	-12.69
216.240	Peak	47.01	-16.32	30.69	46.00	-15.31
242.430	Peak	51.63	-14.53	37.10	46.00	-8.90
398.600	Peak	47.15	-10.03	37.12	46.00	-8.88
719.670	Peak	40.97	-2.80	38.17	46.00	-7.83
960.230	Peak	33.86	0.43	34.28	54.00	-19.72

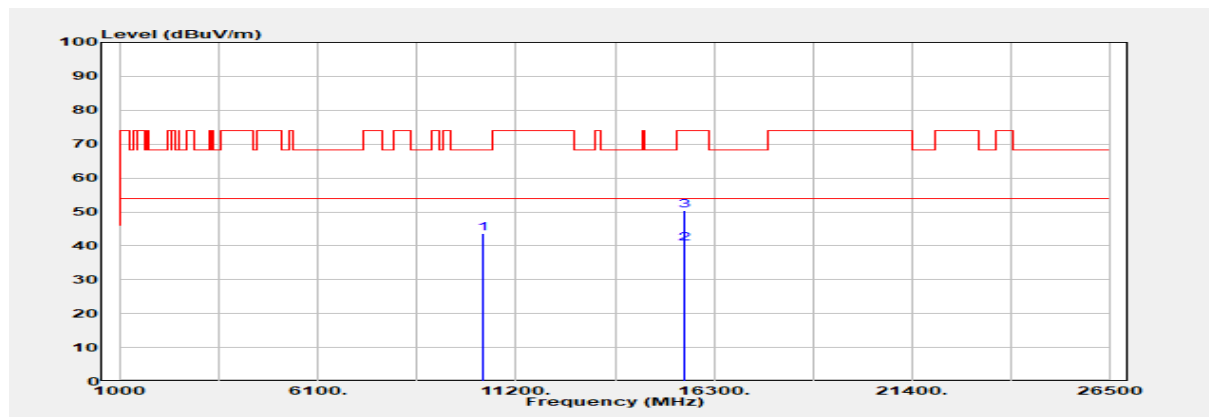
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-19
Temp./Humi. :23.8/63
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
10360.000	Peak	34.61	8.98	43.59	68.20	-24.61
15540.000	Average	28.70	11.88	40.58	54.00	-13.42
15540.000	Peak	38.50	11.88	50.38	74.00	-23.62

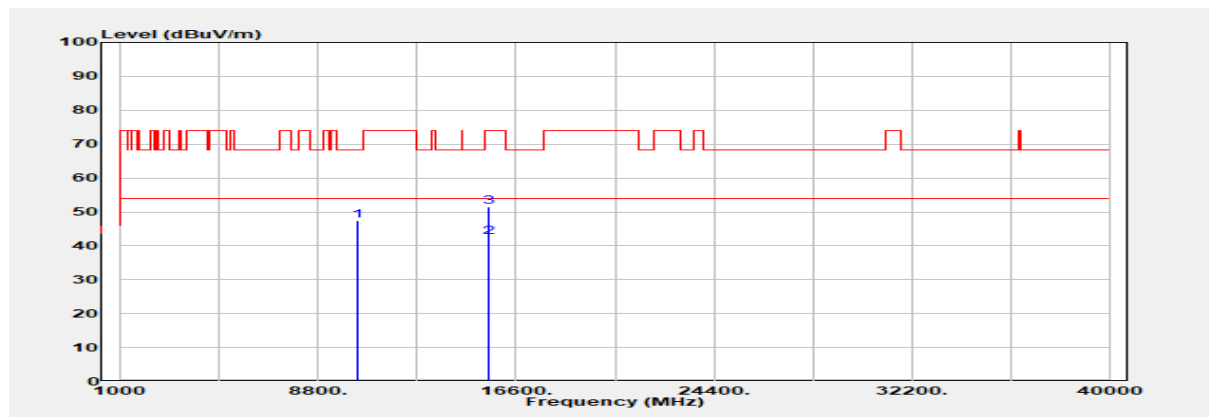
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 1
 Test Frequency :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-19
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
10360.000	Peak	38.45	8.98	47.43	68.20	-20.77
15540.000	Average	30.77	11.88	42.65	54.00	-11.35
15540.000	Peak	39.56	11.88	51.44	74.00	-22.56

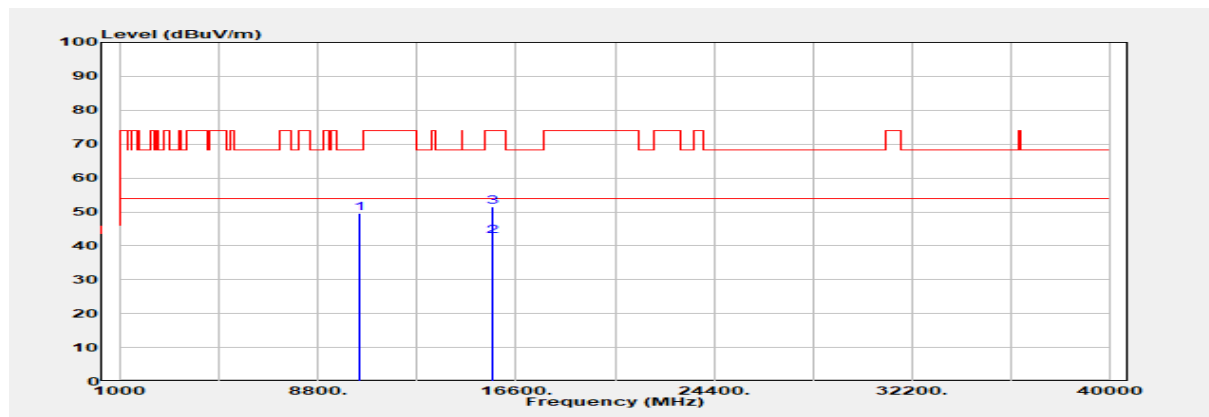
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-19
Temp./Humi. :23.8/63
Antenna Pol. :Vertical
Engineer :Jason Yeh



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
10440.000	Peak	39.79	9.68	49.47	68.20	-18.73
15660.000	Average	31.15	11.61	42.76	54.00	-11.24
15660.000	Peak	39.85	11.61	51.46	74.00	-22.54

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-10-19

Test Frequency :5220 MHz

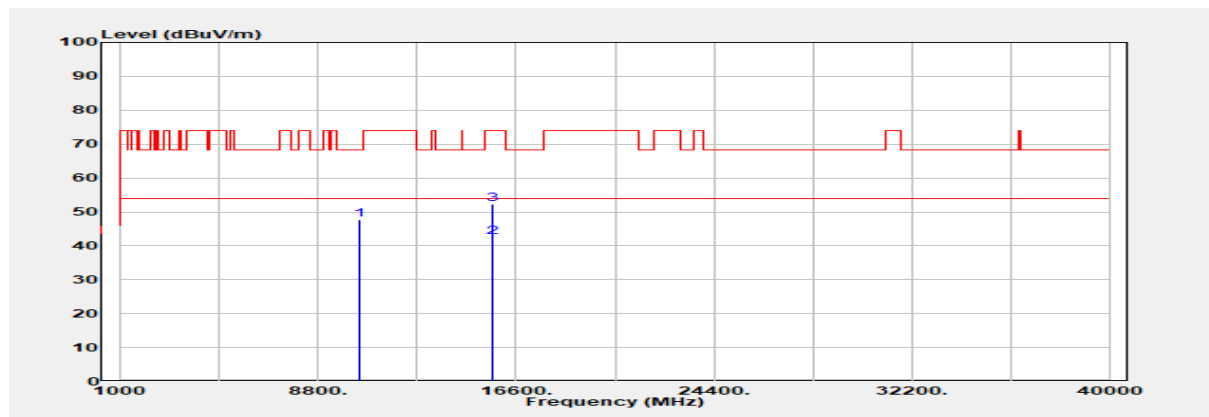
Temp./Humi. :23.8/63

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
10440.000	Peak	38.12	9.68	47.80	68.20	-20.40
15660.000	Average	31.06	11.61	42.67	54.00	-11.33
15660.000	Peak	40.77	11.61	52.38	74.00	-21.62

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-10-19

Test Frequency :5240 MHz

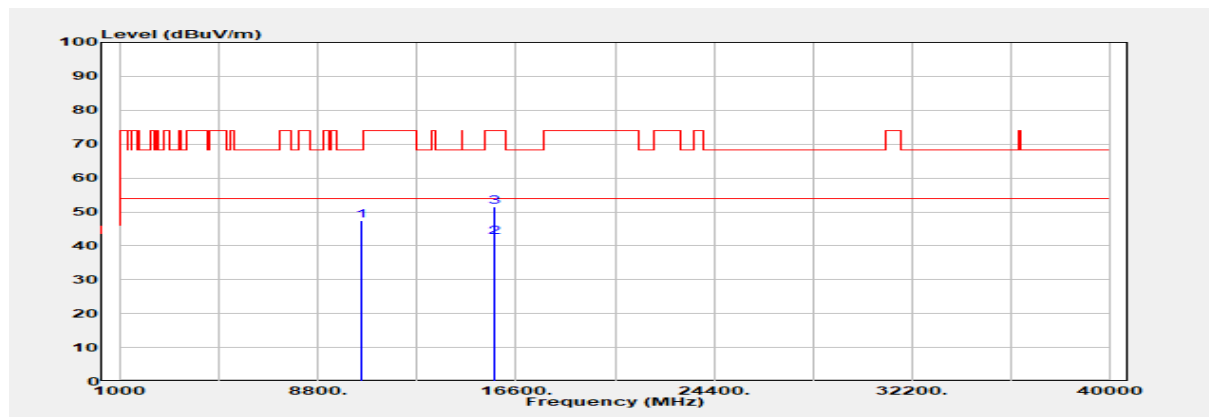
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
10480.000	Peak	37.99	9.43	47.42	68.20	-20.78
15720.000	Average	31.20	11.41	42.61	54.00	-11.39
15720.000	Peak	40.06	11.41	51.47	74.00	-22.53

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-10-19

Test Frequency :5240 MHz

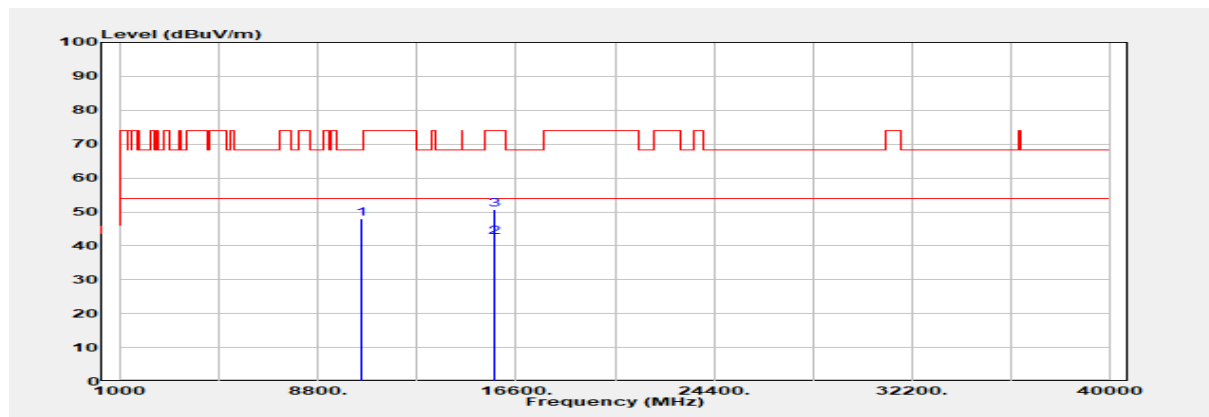
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	38.56	9.43	47.99	68.20	-20.21
15720.000	Average	31.18	11.41	42.59	54.00	-11.41
15720.000	Peak	39.14	11.41	50.55	74.00	-23.45

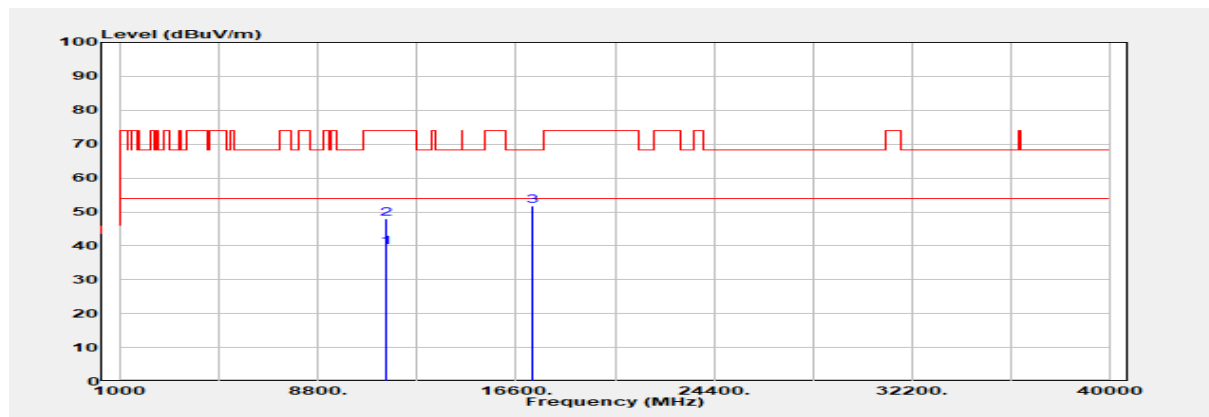
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 4
 Test Frequency :5745 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-19
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	29.52	10.17	39.69	54.00	-14.31
11490.000	Peak	37.79	10.17	47.96	74.00	-26.04
17235.000	Peak	41.08	10.65	51.73	68.20	-16.47

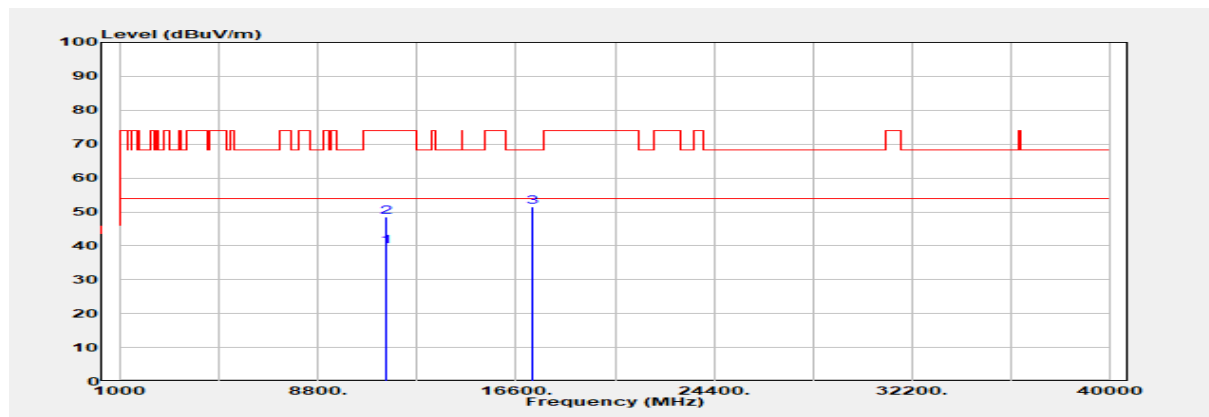
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-19
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



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
11490.000	Average	29.62	10.17	39.79	54.00	-14.21
11490.000	Peak	38.33	10.17	48.50	74.00	-25.50
17235.000	Peak	40.77	10.65	51.42	68.20	-16.78

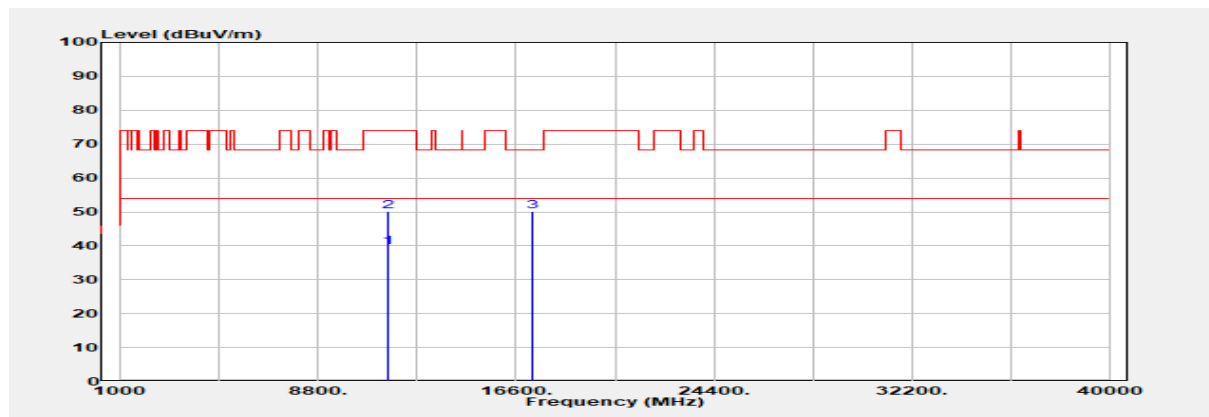
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-19
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
11570.000	Average	29.45	10.00	39.45	54.00	-14.55
11570.000	Peak	40.14	10.00	50.14	74.00	-23.86
17235.000	Peak	39.60	10.65	50.25	68.20	-17.95

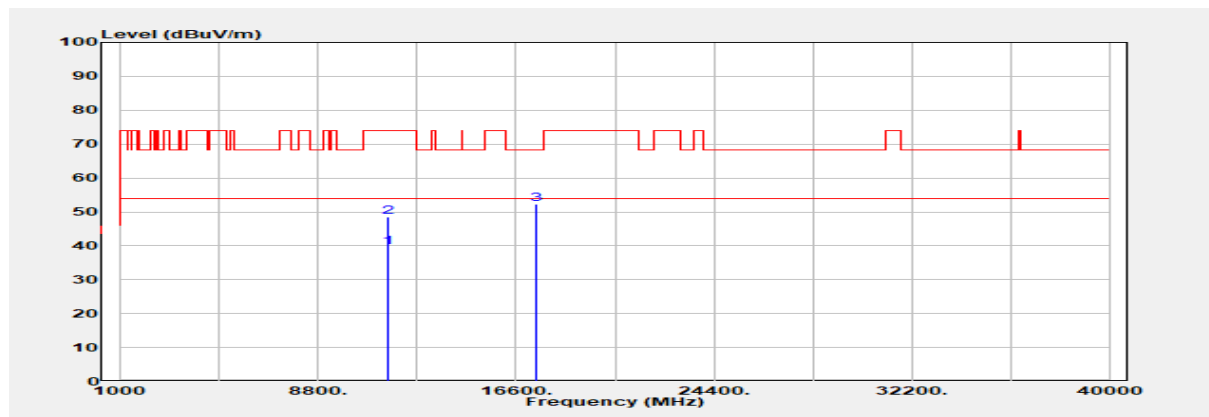
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-19
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



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
11570.000	Average	29.46	10.00	39.46	54.00	-14.54
11570.000	Peak	38.47	10.00	48.47	74.00	-25.53
17355.000	Peak	41.41	10.90	52.31	68.20	-15.89

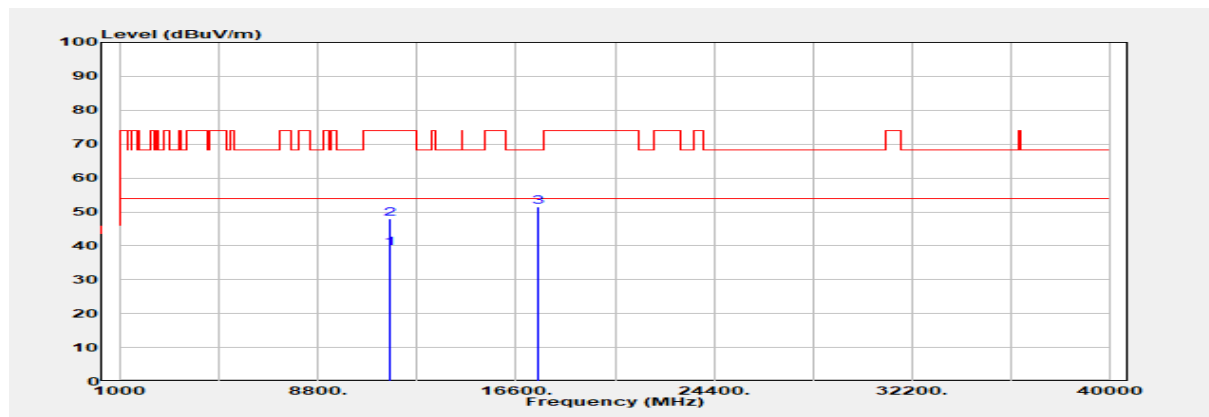
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 4
 Test Frequency :5825 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-19
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
11650.000	Average	29.25	10.00	39.25	54.00	-14.75
11650.000	Peak	37.98	10.00	47.98	74.00	-26.02
17475.000	Peak	40.69	10.78	51.47	68.20	-16.73

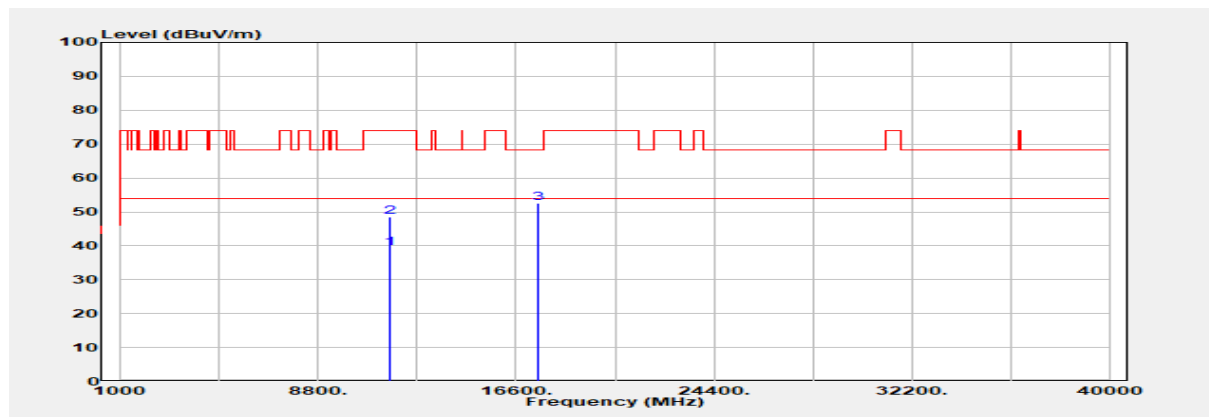
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-19
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



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
11650.000	Average	29.32	10.00	39.32	54.00	-14.68
11650.000	Peak	38.61	10.00	48.61	74.00	-25.39
17475.000	Peak	41.78	10.78	52.56	68.20	-15.64

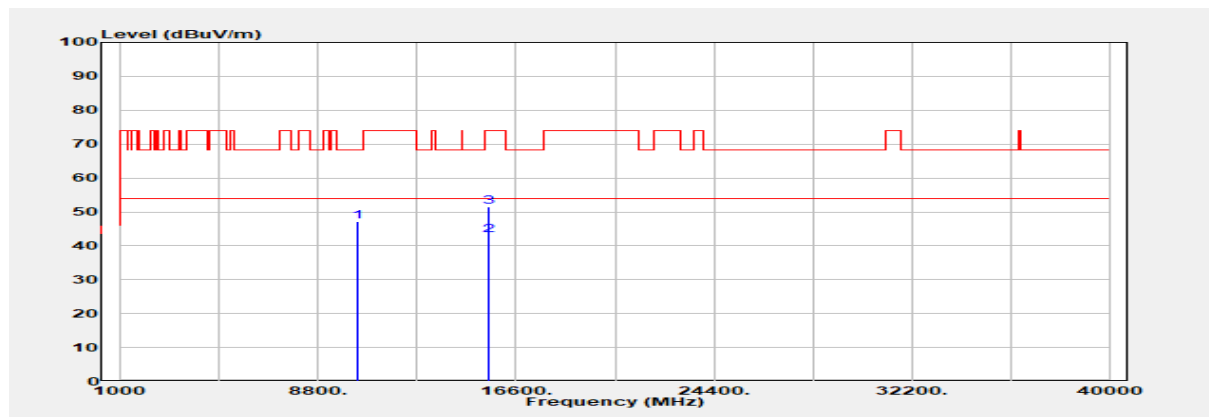
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Report Number :E2/2021/A0003
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
10360.000	Peak	38.30	8.98	47.28	68.20	-20.92
15540.000	Average	31.08	11.88	42.96	54.00	-11.04
15540.000	Peak	39.66	11.88	51.54	74.00	-22.46

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5180 MHz

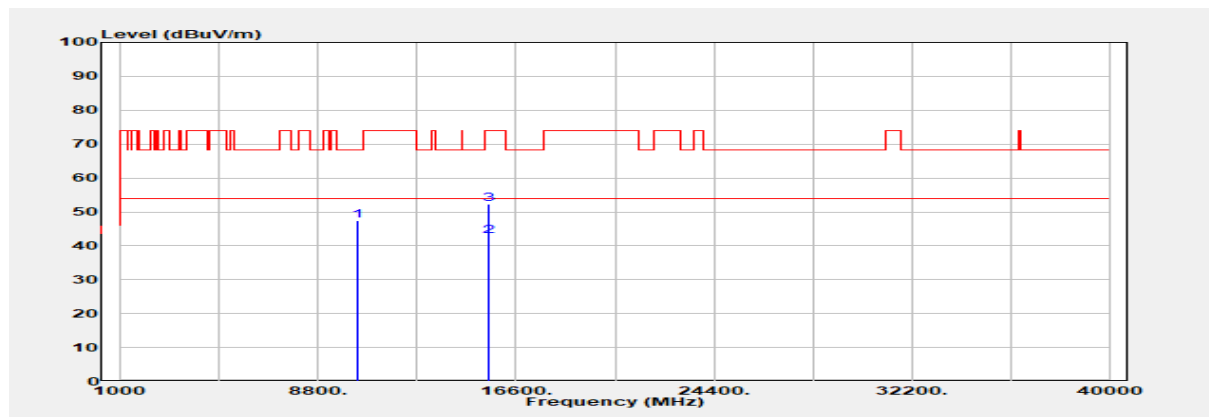
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.000	Peak	38.50	8.98	47.48	68.20	-20.72
15540.000	Average	31.00	11.88	42.88	54.00	-11.12
15540.000	Peak	40.50	11.88	52.38	74.00	-21.62

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5220 MHz

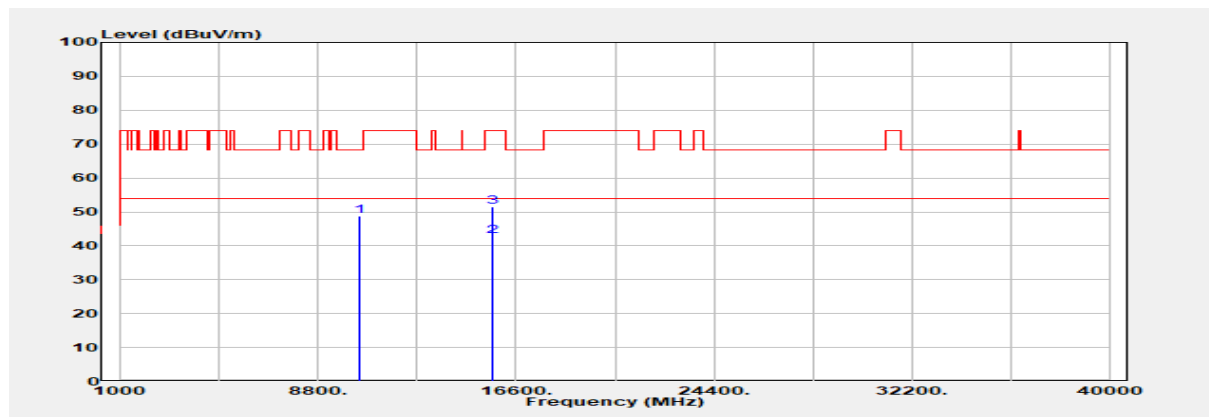
Temp./Humi. :23.8/63

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
10440.000	Peak	39.22	9.68	48.90	68.20	-19.30
15660.000	Average	31.17	11.61	42.78	54.00	-11.22
15660.000	Peak	39.98	11.61	51.59	74.00	-22.41

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5220 MHz

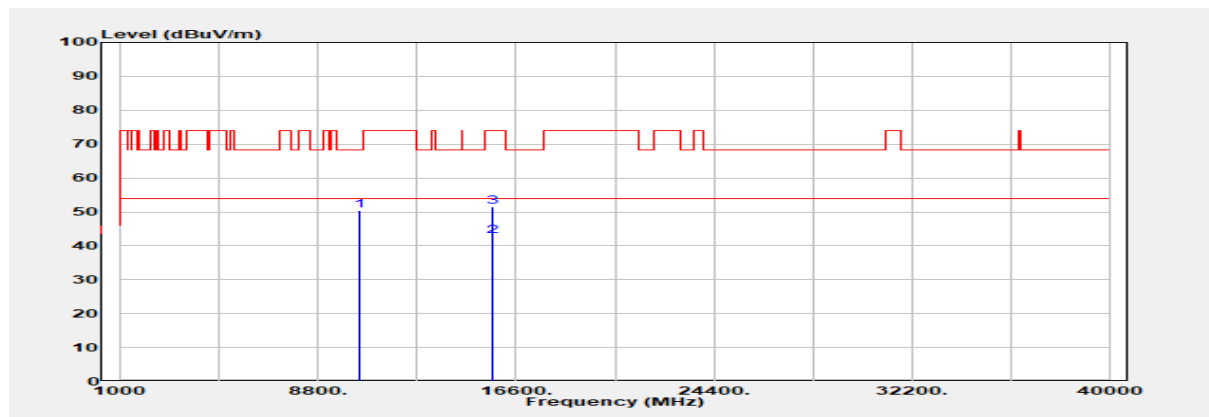
Temp./Humi. :23.8/63

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
10440.000	Peak	40.79	9.68	50.47	68.20	-17.73
15660.000	Average	31.19	11.61	42.80	54.00	-11.20
15660.000	Peak	39.90	11.61	51.51	74.00	-22.49

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5240 MHz

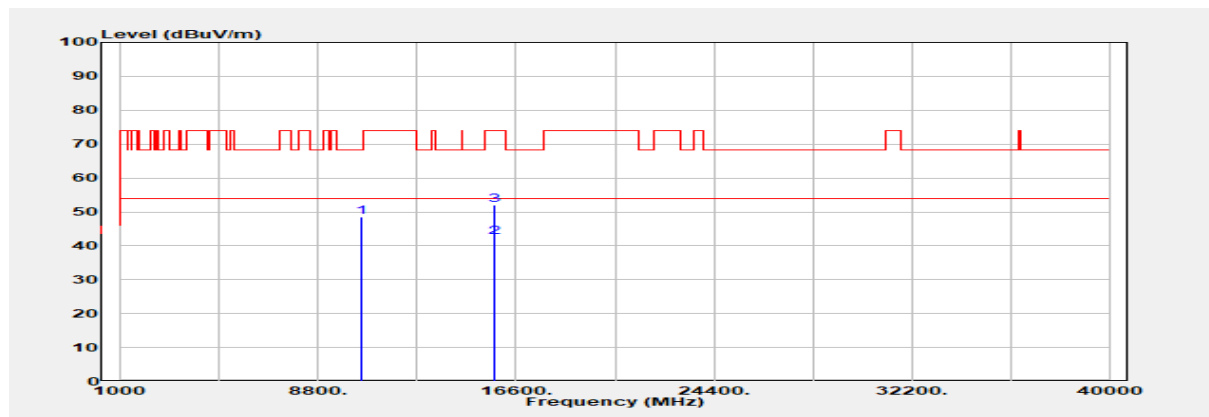
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	38.96	9.43	48.39	68.20	-19.81
15720.000	Average	31.20	11.41	42.61	54.00	-11.39
15720.000	Peak	40.64	11.41	52.06	74.00	-21.94

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 1

Test Date :2021-10-20

Test Frequency :5240 MHz

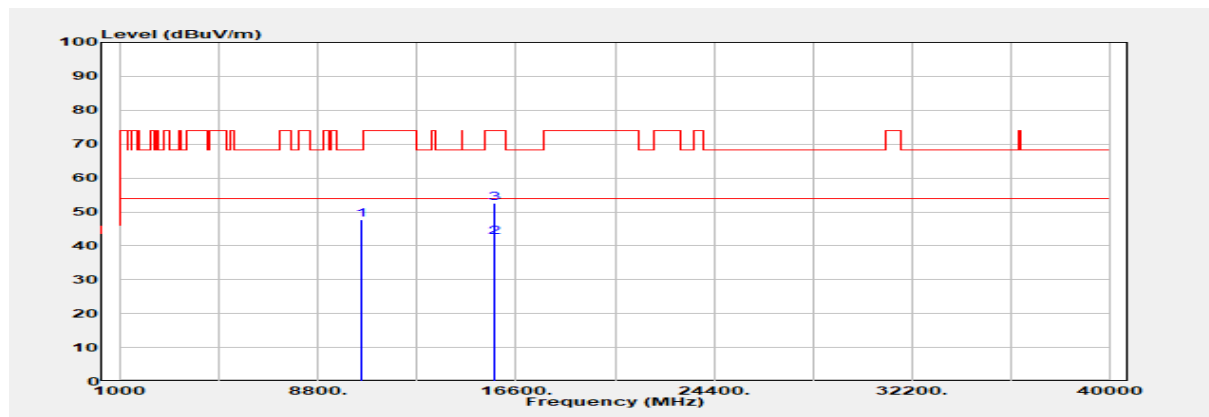
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
10480.000	Peak	38.23	9.43	47.66	68.20	-20.54
15720.000	Average	31.22	11.41	42.63	54.00	-11.37
15720.000	Peak	41.07	11.41	52.49	74.00	-21.51

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5745 MHz

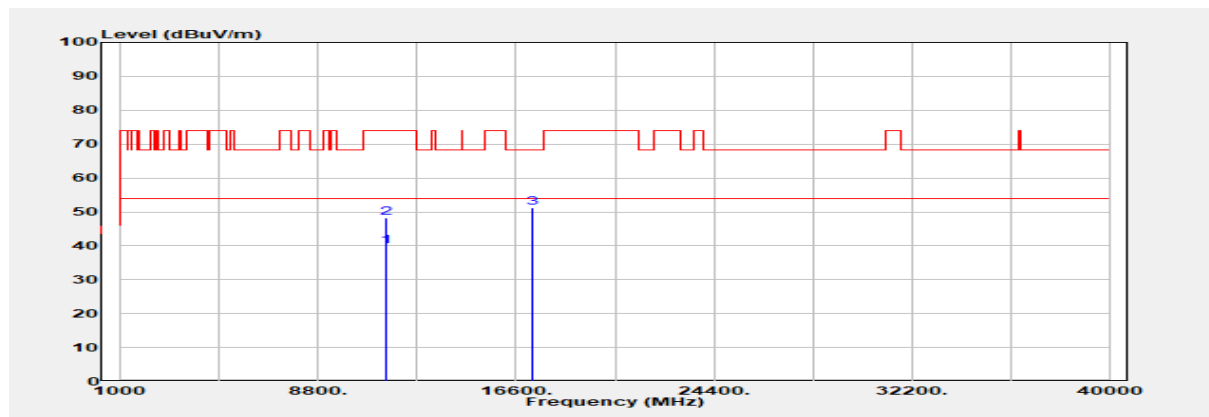
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11490.000	Average	29.65	10.17	39.82	54.00	-14.18
11490.000	Peak	37.97	10.17	48.14	74.00	-25.86
17235.000	Peak	40.52	10.65	51.17	68.20	-17.03

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5745 MHz

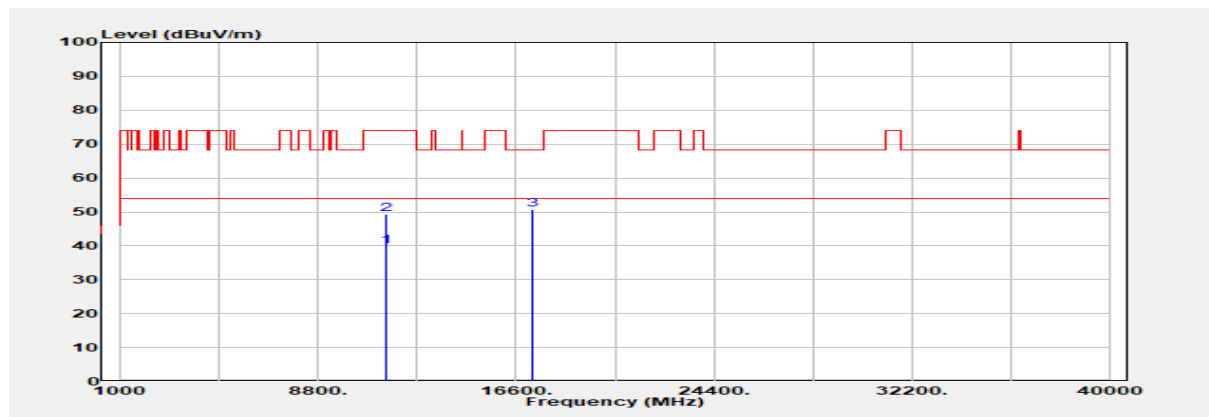
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	29.58	10.17	39.76	54.00	-14.24
11490.000	Peak	39.05	10.17	49.23	74.00	-24.77
17235.000	Peak	40.09	10.65	50.74	68.20	-17.46

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5785 MHz

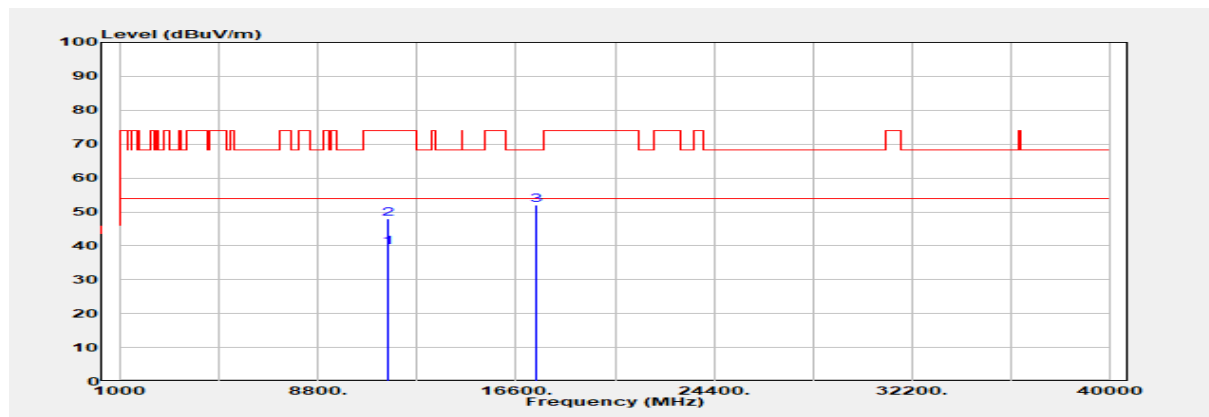
Temp./Humi. :23.8/63

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11570.000	Average	29.53	10.00	39.52	54.00	-14.48
11570.000	Peak	37.99	10.00	47.99	74.00	-26.01
17355.000	Peak	41.18	10.90	52.08	68.20	-16.12

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5785 MHz

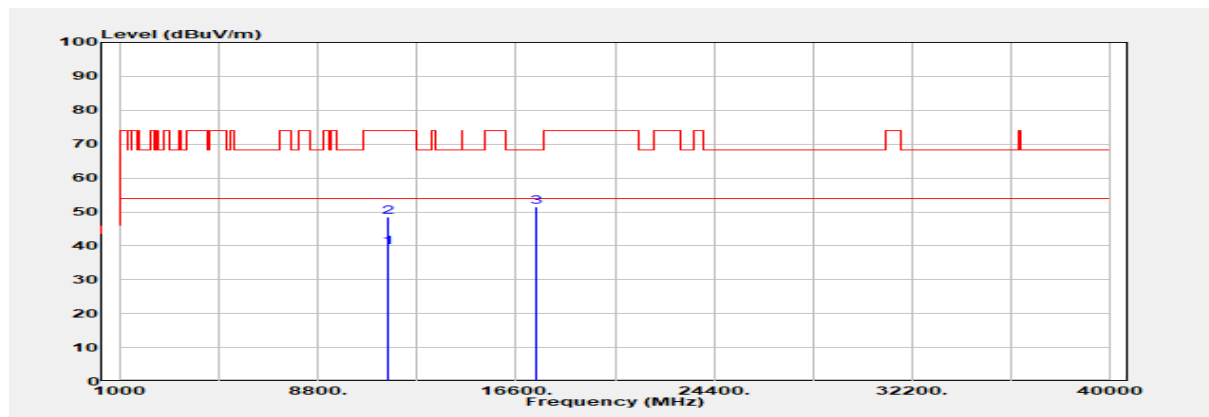
Temp./Humi. :23.8/63

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	29.50	10.00	39.50	54.00	-14.50
11570.000	Peak	38.53	10.00	48.52	74.00	-25.48
17355.000	Peak	40.62	10.90	51.52	68.20	-16.68

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5825 MHz

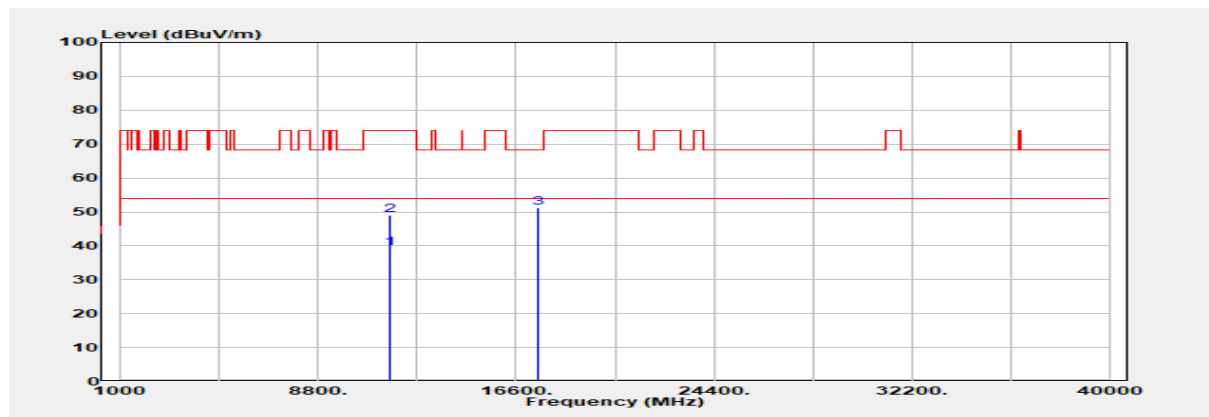
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	29.20	10.00	39.20	54.00	-14.80
11650.000	Peak	39.14	10.00	49.14	74.00	-24.86
17475.000	Peak	40.37	10.78	51.15	68.20	-17.05

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n20 / Band 4

Test Date :2021-10-20

Test Frequency :5825 MHz

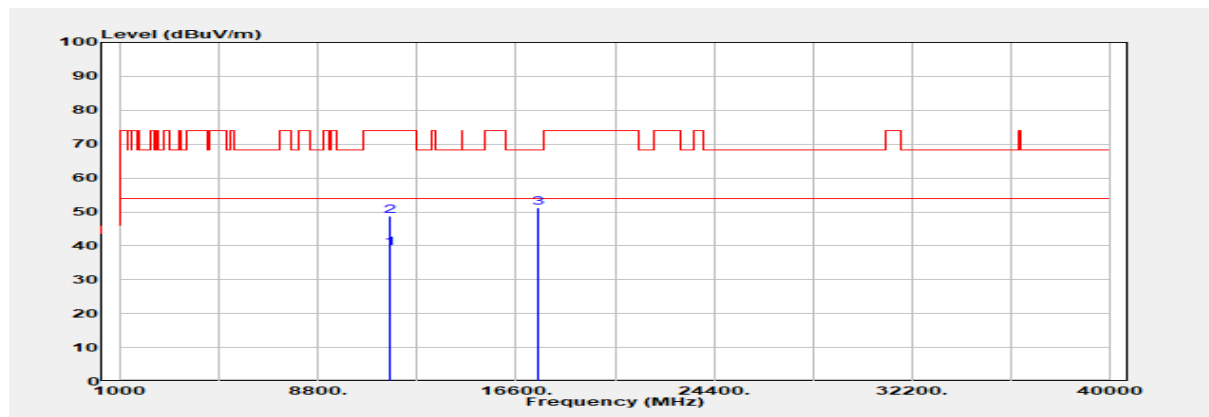
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	29.37	10.00	39.37	54.00	-14.63
11650.000	Peak	38.70	10.00	48.70	74.00	-25.30
17475.000	Peak	40.45	10.78	51.23	68.20	-16.97

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-28

Test Frequency :5190 MHz

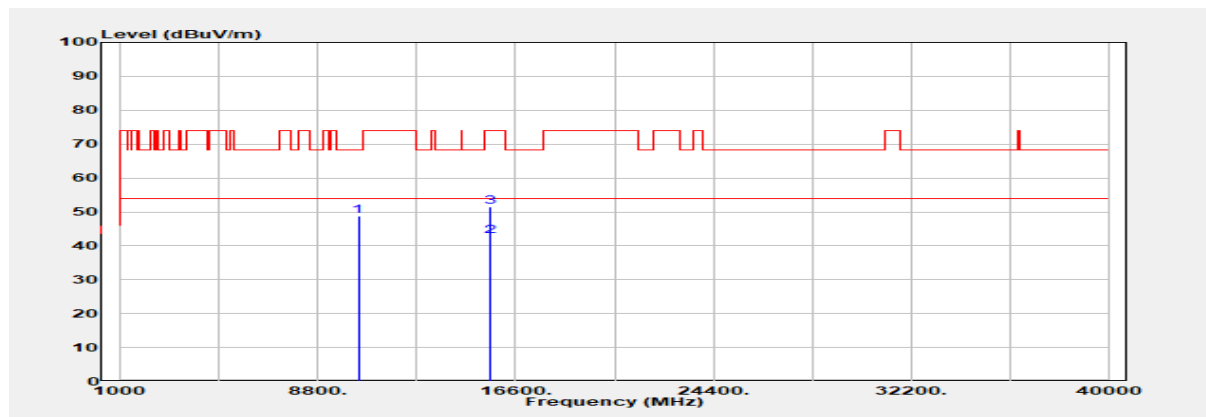
Temp./Humi. :21.5/65

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.000	Peak	40.11	8.61	48.72	68.20	-19.48
15570.000	Average	31.26	11.60	42.86	54.00	-11.14
15570.000	Peak	39.97	11.60	51.57	74.00	-22.43

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-28

Test Frequency :5190 MHz

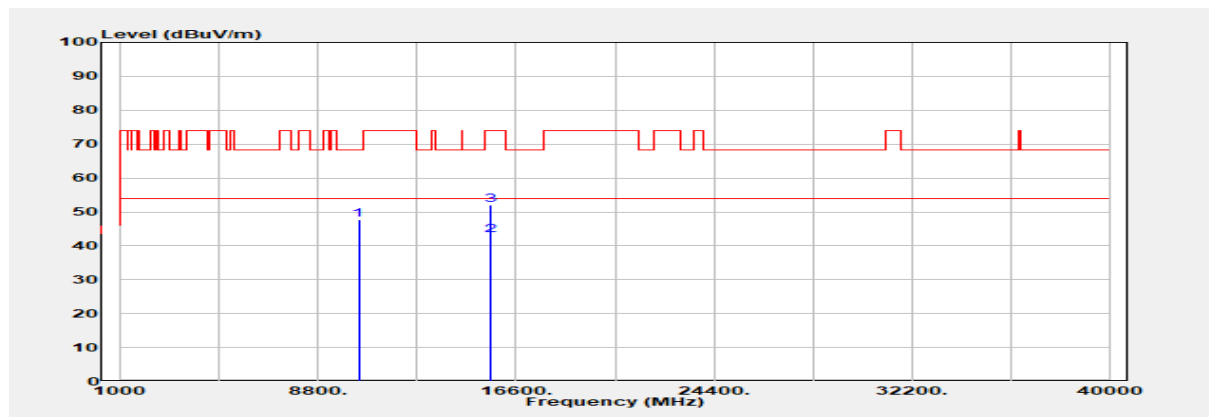
Temp./Humi. :21.5/65

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.000	Peak	38.97	8.61	47.58	68.20	-20.62
15570.000	Average	31.45	11.60	43.05	54.00	-10.95
15570.000	Peak	40.35	11.60	51.95	74.00	-22.05

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-20

Test Frequency :5230 MHz

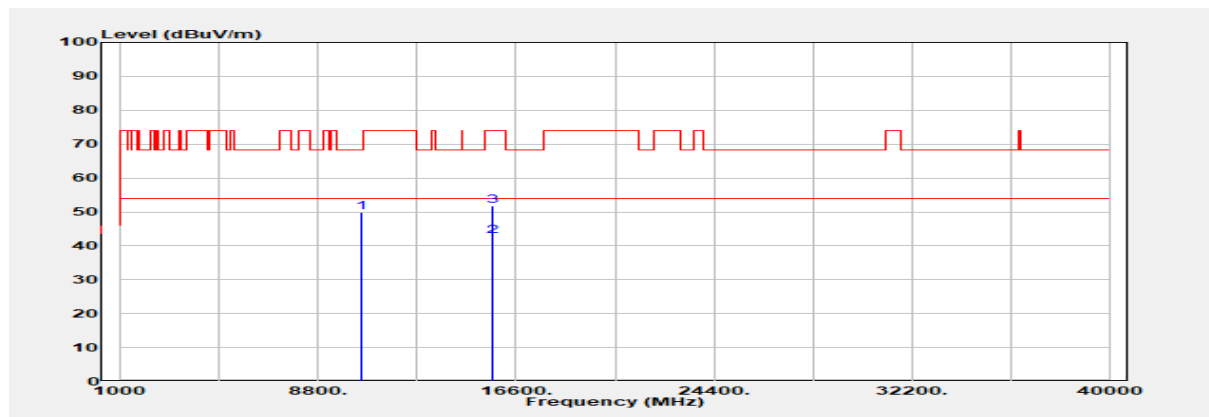
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
10460.000	Peak	40.01	9.84	49.85	68.20	-18.35
15690.000	Average	31.14	11.59	42.73	54.00	-11.27
15690.000	Peak	40.04	11.59	51.63	74.00	-22.37

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 1

Test Date :2021-10-20

Test Frequency :5230 MHz

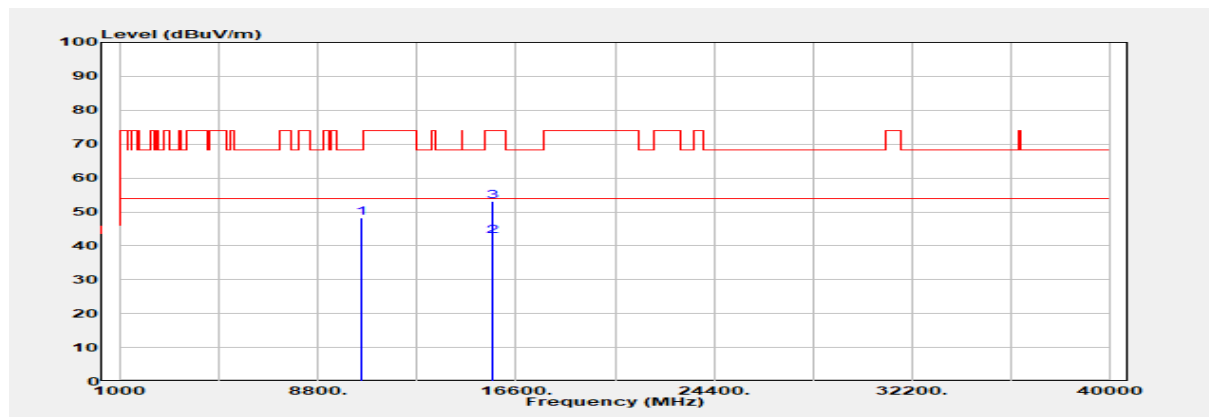
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.000	Peak	38.50	9.84	48.34	68.20	-19.86
15690.000	Average	31.16	11.59	42.75	54.00	-11.25
15690.000	Peak	41.65	11.59	53.24	74.00	-20.76

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5755 MHz

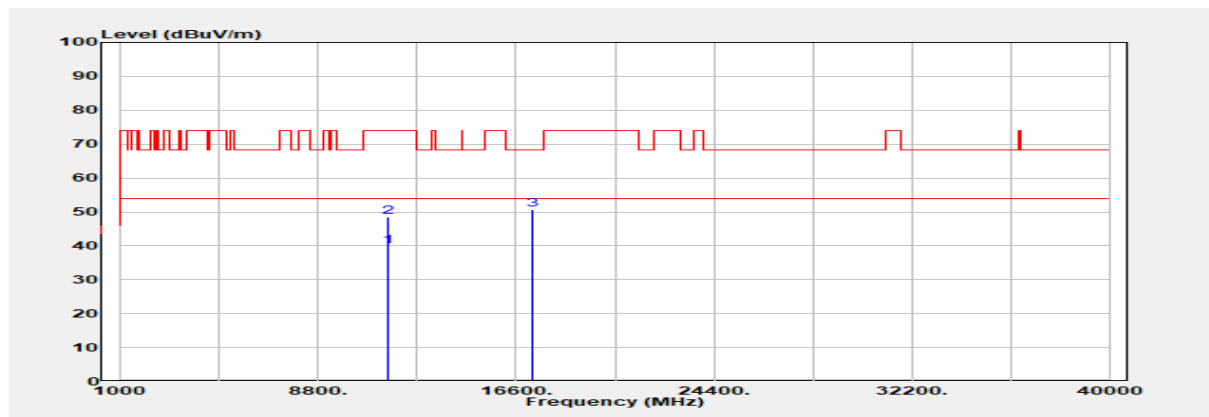
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11510.000	Average	29.67	10.11	39.78	54.00	-14.22
11510.000	Peak	38.49	10.11	48.60	74.00	-25.40
17265.000	Peak	39.91	10.66	50.58	68.20	-17.62

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5755 MHz

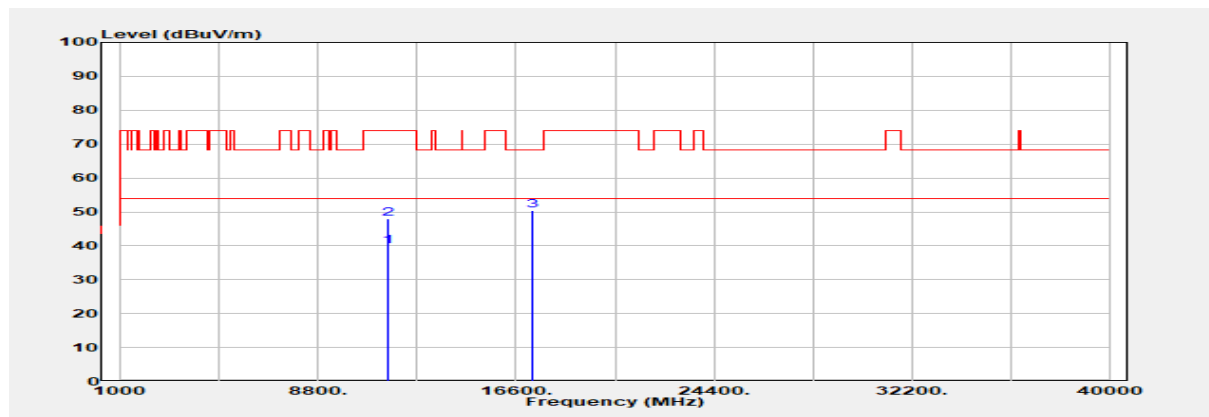
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11510.000	Average	29.66	10.11	39.77	54.00	-14.23
11510.000	Peak	37.84	10.11	47.96	74.00	-26.04
17265.000	Peak	39.71	10.66	50.37	68.20	-17.83

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5795 MHz

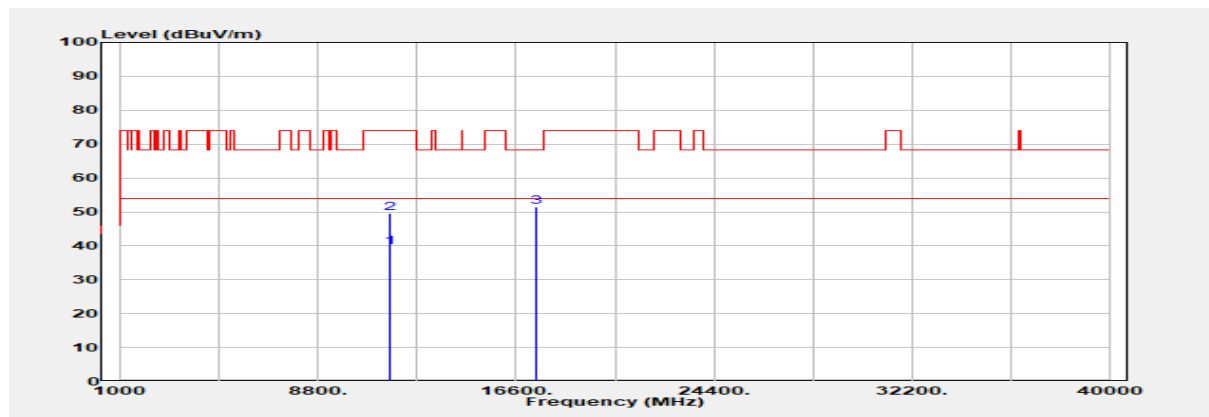
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11590.000	Average	29.45	10.14	39.59	54.00	-14.41
11590.000	Peak	39.44	10.14	49.58	74.00	-24.42
17385.000	Peak	40.09	11.40	51.49	68.20	-16.71

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11n40 / Band 4

Test Date :2021-10-20

Test Frequency :5795 MHz

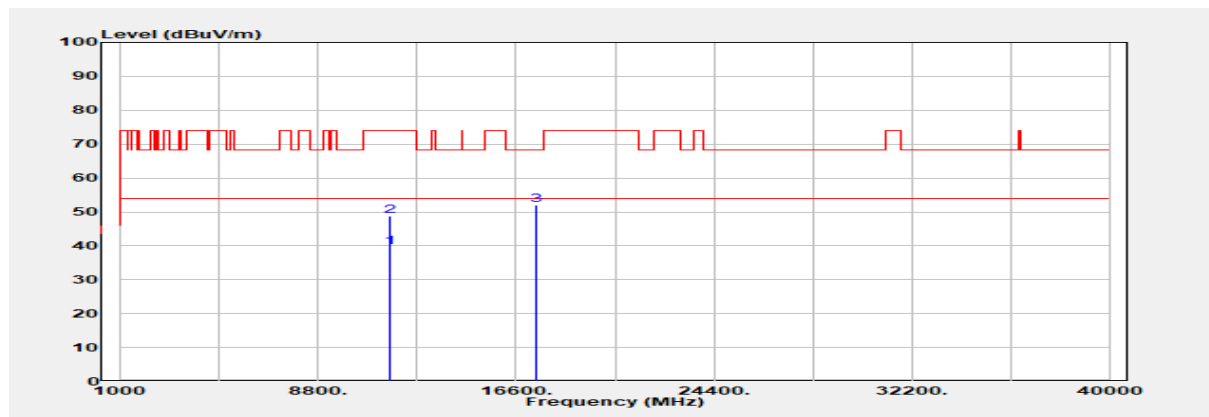
Temp./Humi. :23.8/63

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11590.000	Average	29.43	10.14	39.57	54.00	-14.43
11590.000	Peak	38.53	10.14	48.67	74.00	-25.33
17385.000	Peak	40.72	11.40	52.12	68.20	-16.08

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-28

Test Frequency :5210 MHz

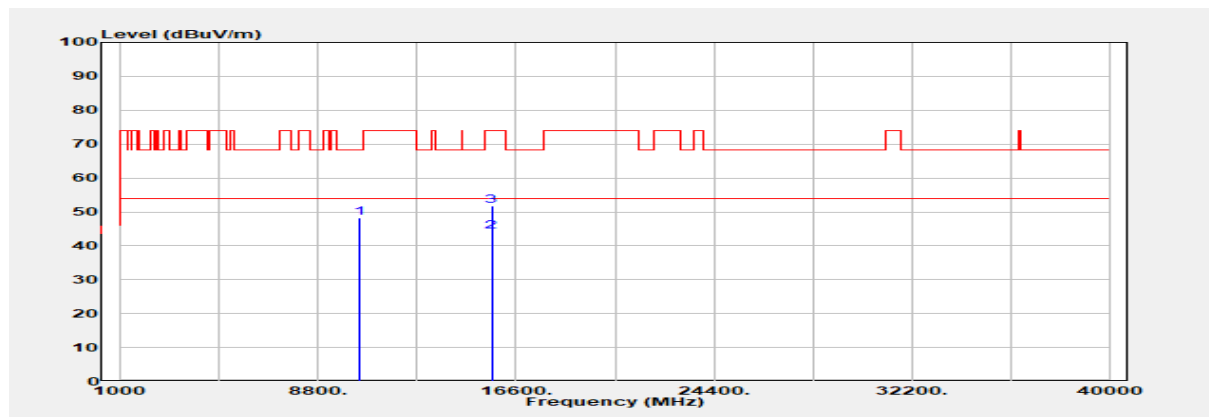
Temp./Humi. :21.5/65

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.000	Peak	39.22	8.96	48.18	68.20	-20.02
15630.000	Average	32.62	11.48	44.10	54.00	-9.90
15630.000	Peak	40.26	11.48	51.74	74.00	-22.26

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 1

Test Date :2021-10-28

Test Frequency :5210 MHz

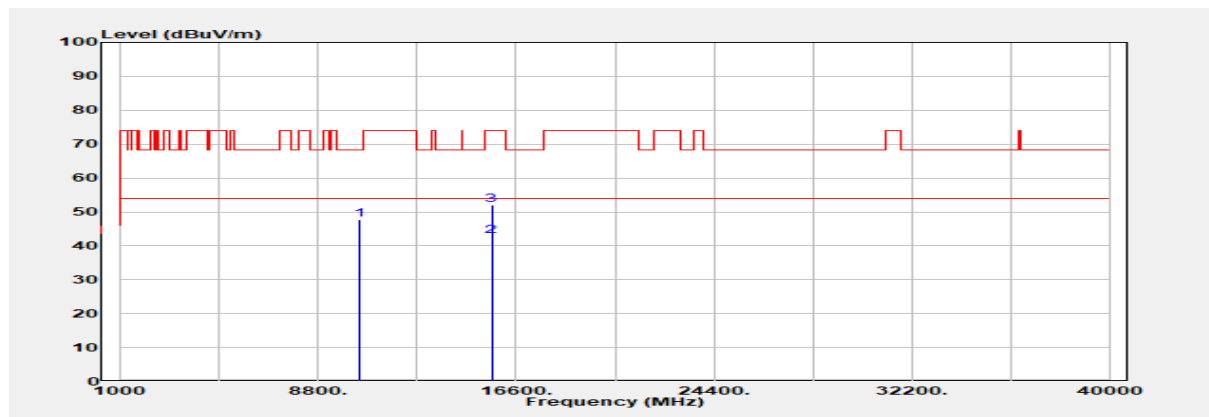
Temp./Humi. :21.5/65

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.000	Peak	38.66	8.96	47.62	68.20	-20.58
15630.000	Average	31.44	11.48	42.92	54.00	-11.08
15630.000	Peak	40.62	11.48	52.10	74.00	-21.90

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-20

Test Frequency :5775 MHz

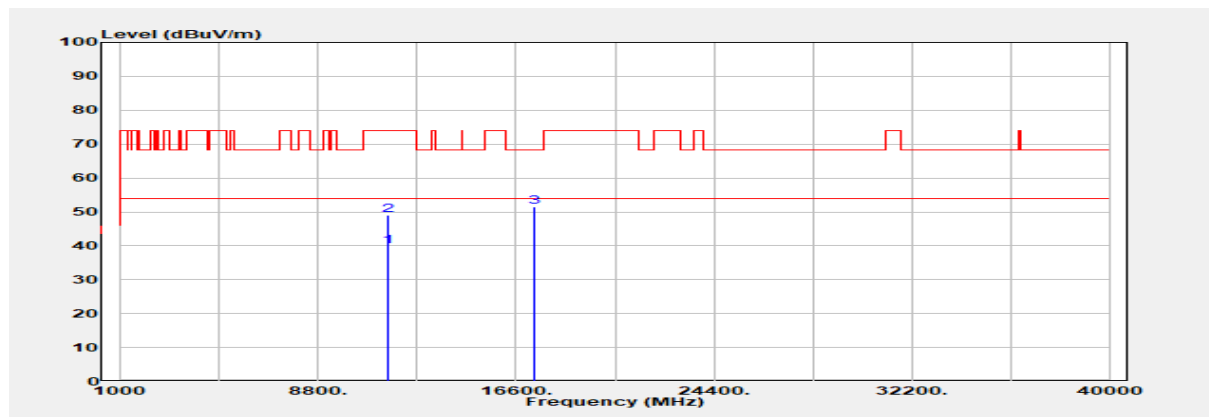
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Jason Yeh



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
11550.000	Average	29.85	9.85	39.71	54.00	-14.29
11550.000	Peak	39.25	9.85	49.11	74.00	-24.89
17325.000	Peak	40.57	10.84	51.41	68.20	-16.79

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Report Number :E2/2021/A0003

Test Site :SAC G

Operation Mode :802.11ac80 / Band 4

Test Date :2021-10-20

Test Frequency :5775 MHz

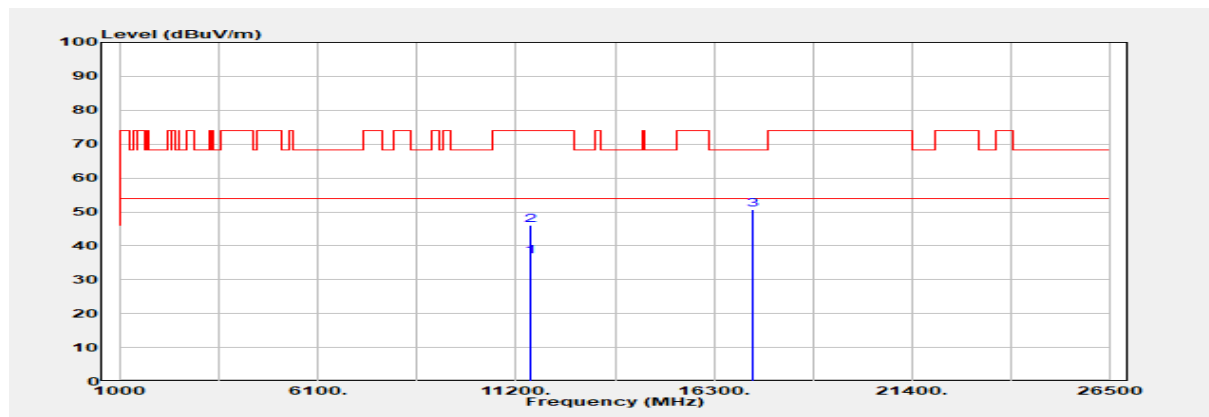
Temp./Humi. :23.8/63

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.000	Average	26.97	9.85	36.82	54.00	-17.18
11550.000	Peak	36.22	9.85	46.08	74.00	-27.92
17325.000	Peak	39.87	10.84	50.71	68.20	-17.49

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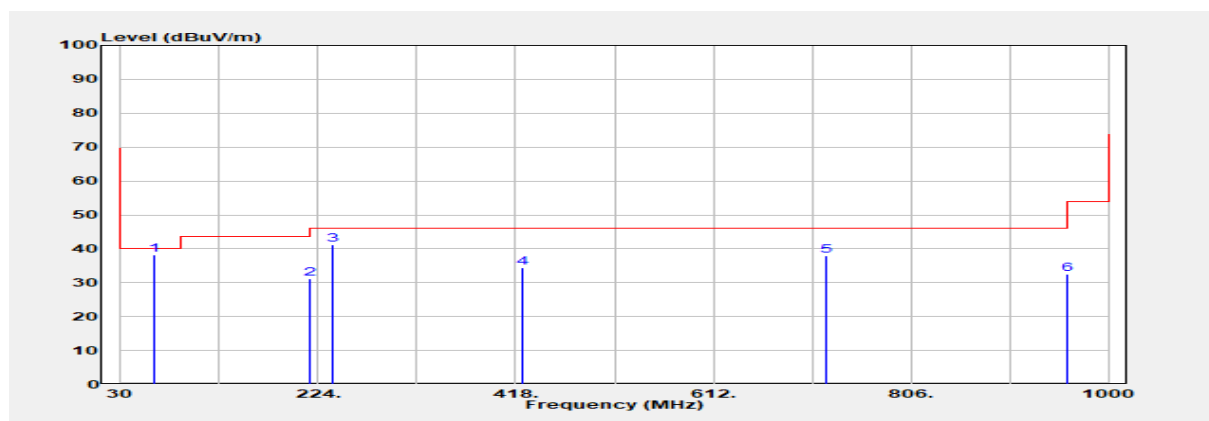
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12.8 接收機場強輻射之量測

Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :RX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
62.980	Peak	52.28	-13.98	38.30	40.00	-1.70
215.270	Peak	47.48	-16.34	31.13	43.50	-12.37
237.580	Peak	55.93	-14.86	41.07	46.00	-4.93
423.820	Peak	43.30	-8.91	34.39	46.00	-11.61
722.580	Peak	40.66	-2.62	38.04	46.00	-7.96
960.230	Peak	32.01	0.43	32.43	54.00	-21.57

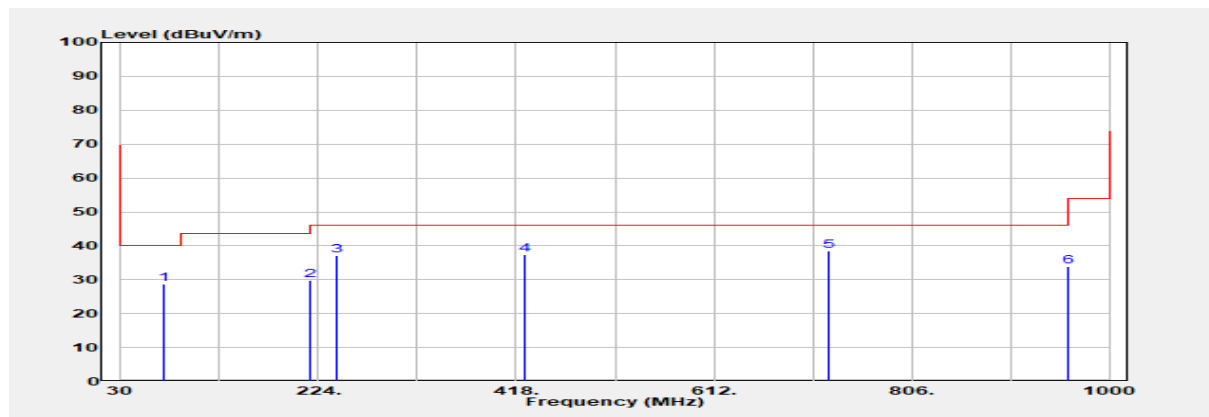
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :RX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.710	Peak	43.95	-15.31	28.64	40.00	-11.36
215.270	Peak	46.24	-16.34	29.90	43.50	-13.60
242.430	Peak	51.70	-14.53	37.17	46.00	-8.83
426.730	Peak	46.17	-8.69	37.49	46.00	-8.51
725.490	Peak	41.09	-2.52	38.57	46.00	-7.43
960.230	Peak	33.56	0.43	33.99	54.00	-20.01

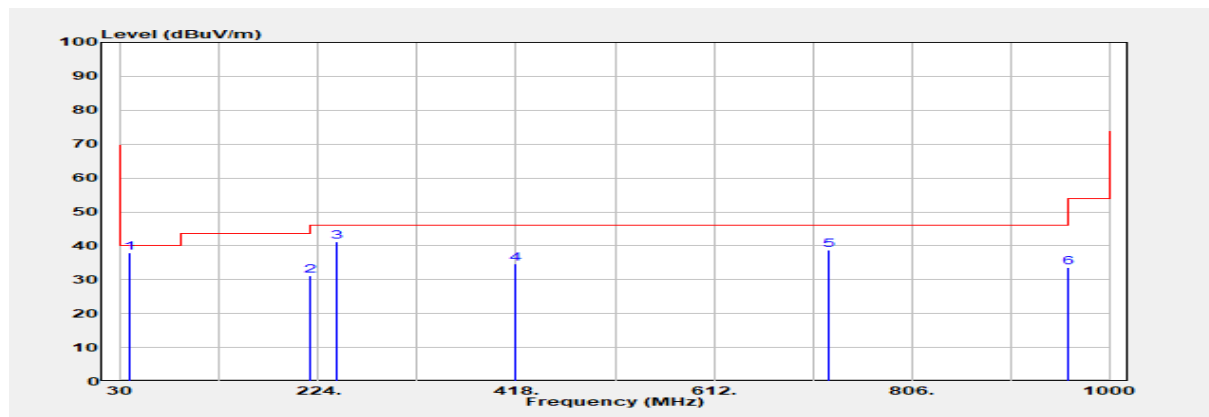
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :RX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :23.8/63
Antenna Pol. :Vertical
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.760	Peak	51.60	-13.52	38.07	40.00	-1.93
216.240	Peak	47.48	-16.32	31.16	46.00	-14.84
242.430	Peak	55.65	-14.53	41.12	46.00	-4.88
417.030	Peak	43.94	-9.32	34.61	46.00	-11.39
725.490	Peak	41.30	-2.52	38.79	46.00	-7.21
960.230	Peak	33.24	0.43	33.67	54.00	-20.33

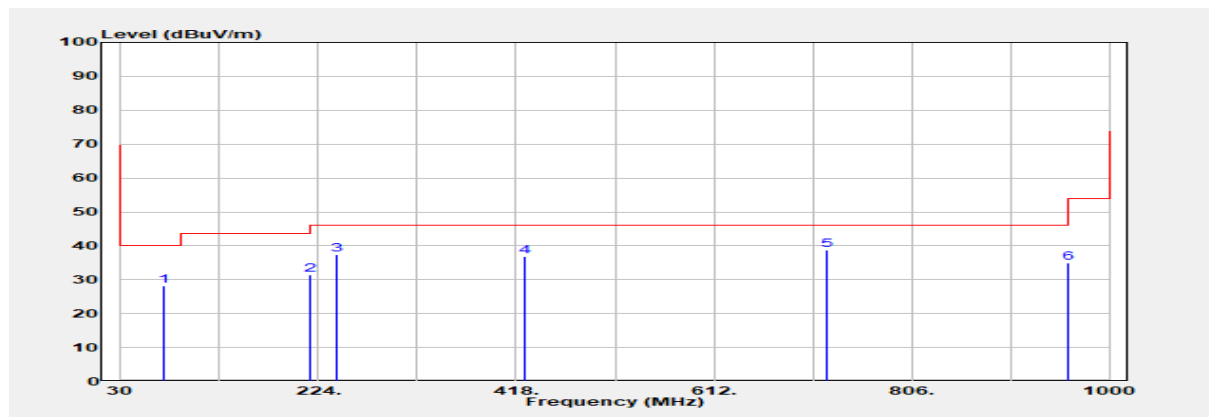
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :RX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.710	Peak	43.61	-15.31	28.30	40.00	-11.70
216.240	Peak	47.74	-16.32	31.41	46.00	-14.59
242.430	Peak	51.88	-14.53	37.35	46.00	-8.65
426.730	Peak	45.46	-8.69	36.78	46.00	-9.22
722.580	Peak	41.49	-2.62	38.87	46.00	-7.13
960.230	Peak	34.56	0.43	34.99	54.00	-19.01

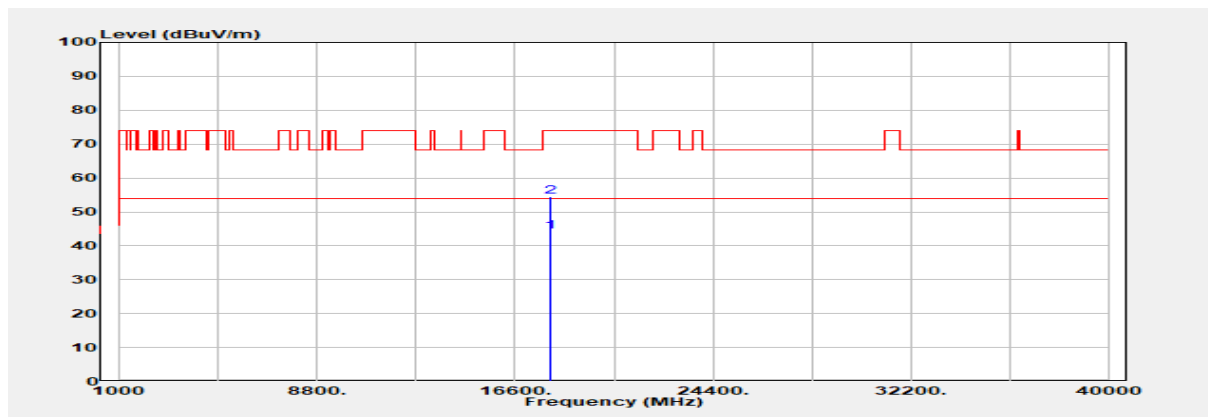
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :RX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
17980.000	Average	32.37	11.92	44.30	54.00	-9.70
17980.000	Peak	42.46	11.92	54.38	74.00	-19.62

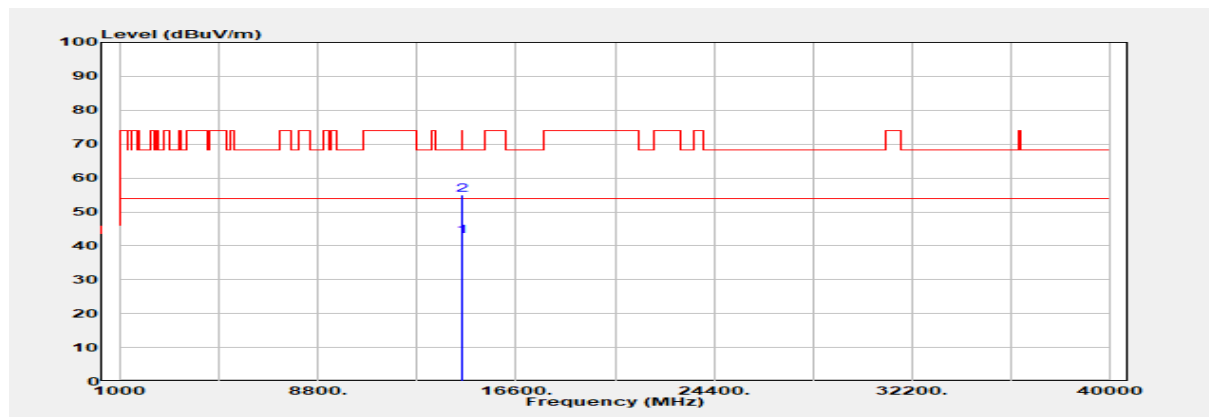
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 1
 Test Frequency :5220 MHz
 Test Mode :RX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :23.8/63
 Antenna Pol. :Horizontal
 Engineer :Jason Yeh



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
14490.000	Average	31.46	11.45	42.90	54.00	-11.10
14490.000	Peak	43.50	11.45	54.95	74.00	-19.05

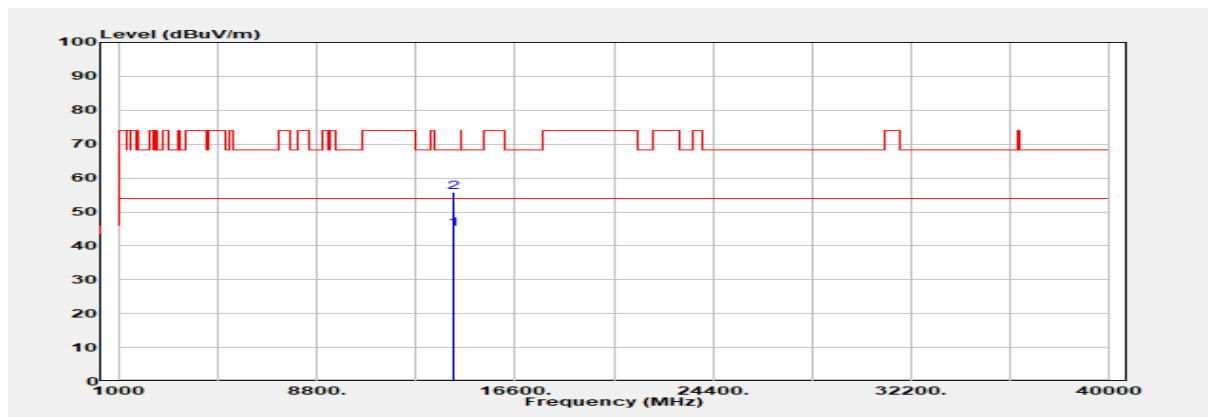
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Report Number :E2/2021/A0003
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :RX CH MID
 EUT Pol :E1 Plane

Test Site :SAC G
 Test Date :2021-10-20
 Temp./Humi. :23.8/63
 Antenna Pol. :Vertical
 Engineer :Jason Yeh



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
14200.000	Average	33.15	11.97	45.12	54.00	-8.88
14200.000	Peak	43.87	11.97	55.84	68.20	-12.36

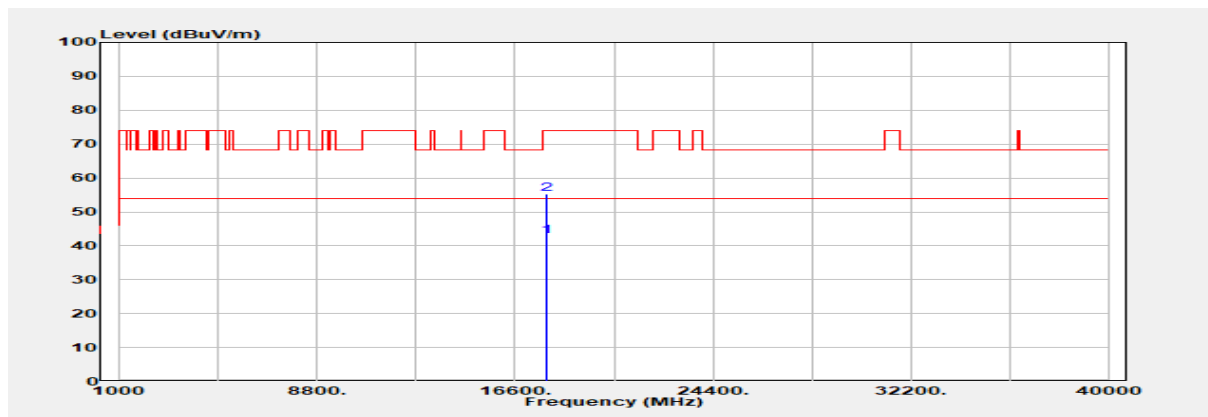
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Report Number :E2/2021/A0003
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :RX CH MID
EUT Pol :E1 Plane

Test Site :SAC G
Test Date :2021-10-20
Temp./Humi. :23.8/63
Antenna Pol. :Horizontal
Engineer :Jason Yeh



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
17860.000	Average	31.25	11.46	42.72	54.00	-11.28
17860.000	Peak	43.88	11.46	55.34	74.00	-18.66

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12.9 Fully System

Report Number :E2/2021/A0001

Test Site :SAC G

Operation Mode :System

Test Date :2021-10-21

Test Frequency :System

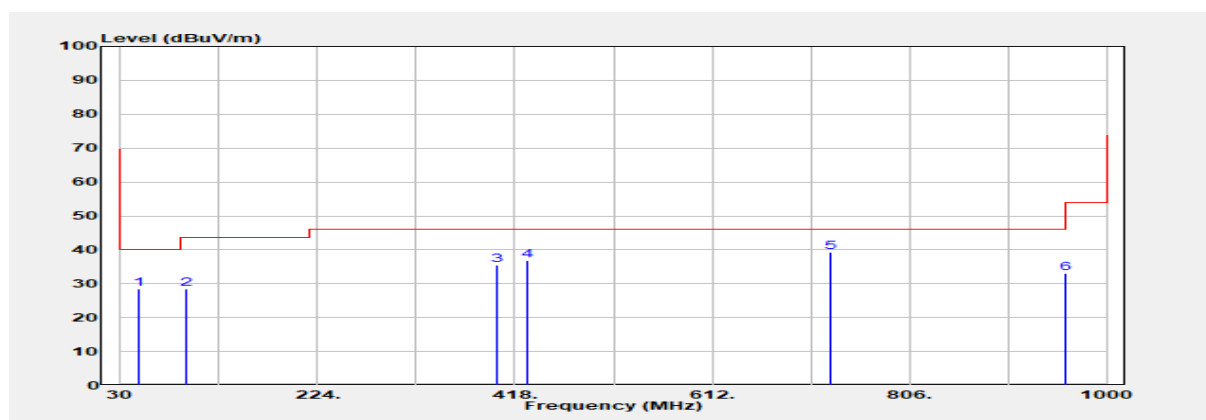
Temp./Humi. :23.7/67

Test Mode :System

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.460	Peak	41.45	-12.89	28.56	40.00	-11.44
94.990	Peak	46.94	-18.60	28.33	43.50	-15.17
399.570	Peak	45.52	-10.07	35.45	46.00	-10.55
429.640	Peak	45.12	-8.34	36.78	46.00	-9.22
729.370	Peak	42.15	-2.79	39.35	46.00	-6.65
960.230	Peak	32.55	0.43	32.98	54.00	-21.02

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Report Number :E2/2021/A0001

Test Site :SAC G

Operation Mode :System

Test Date :2021-10-21

Test Frequency :System

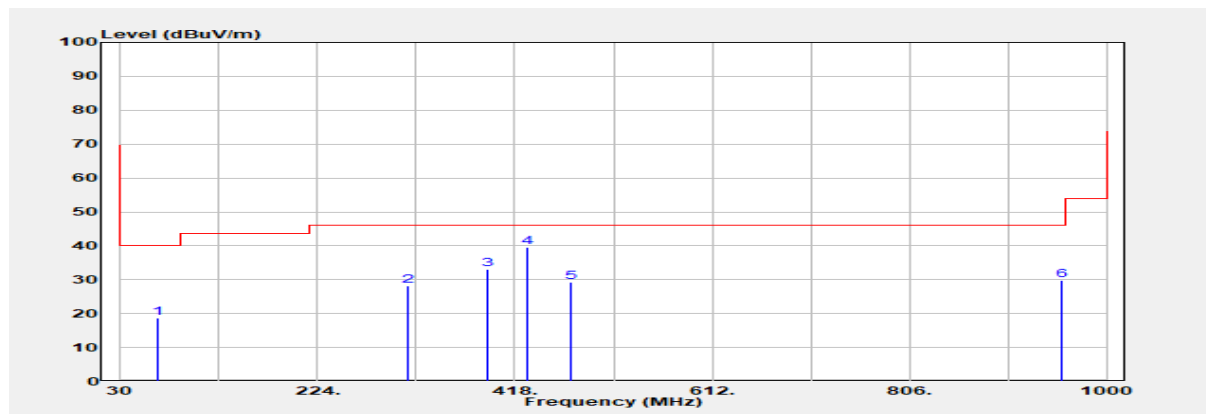
Temp./Humi. :23.7/67

Test Mode :System

Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane

Engineer :Jason Yeh



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
66.860	Peak	33.28	-14.50	18.78	40.00	-21.22
313.240	Peak	40.28	-12.04	28.25	46.00	-17.75
390.840	Peak	43.16	-10.17	32.98	46.00	-13.02
430.610	Peak	47.83	-8.31	39.52	46.00	-6.48
473.290	Peak	37.39	-8.02	29.36	46.00	-16.64
956.350	Peak	29.33	0.60	29.92	46.00	-16.08

~ End of Report ~

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