

低功率射頻器材試驗報告



申請廠商 Hitachi-LG Data Storage Korea, Inc.
189, Gasan digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea
製造廠商 DONGKWANG PRECISION CO., LTD
產品名稱 紅外線人臉識別測溫機
廠牌 Hitachi-LG Data Storage
型號 HLT-TEBF1
報告號碼 ER/2021/60024
技術標準 LP0002, 4.10.1 節
試驗件收樣日期 民國110年6月7日
試驗受理日期 民國110年6月7日
試驗執行日期 民國110年6月9日~ 民國110年7月1日
報告發行日期 民國110年7月1日

Approved By: _____

張俊卿

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
ER/2021/60024	Rev.00	Original.	民國 110 年 7 月 1 日	Tiffany Kao

Note:

- 1、電源線傳導干擾及 Fully System 測試模式在各個無線功能全開下進行測試，經評估為最差模式。
- 2、測試報告 ER-2021-60022 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 A	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			1.54	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		1.54	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	紅外線人臉識別測溫機	
廠牌	Hitachi-LG Data Storage	
型號	HLT-TEBF1	
高低調節支架+高低調節支架台	Model No.: HLT-USBL1, Brand: 佛山市艾麥馳智能科技有限公司	
台式支架台	Model No.: HLT-USBT1, Brand: 佛山市艾麥馳智能科技有限公司	
Battery	Model No.: CR2032, Brand: CHAOCHUANG (for clock only)	
使用電源	12Vdc from AC/DC Adapter	
	Adapter:	Model No.: GA120020, Brand: 深圳市泰洋光電子有限公司

3.2 射頻特性

802.11	發射頻帶	頻道數	Output chain	輸出功率 (dBm)	Modulation Technology
b	2412-2462	11	Ch0	16.48 dBm	DSSS, OFDM
g	2412-2462	11	Ch0	22.81 dBm	DSSS, OFDM
n	HT20 2412-2462	11	Ch0	22.51 dBm	OFDM
調變方式:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps			

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3.3 天線資訊

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
單極天線	Shenzhen Shuodian Electronic Technology Co.,Ltd	ALD-A80-WIFI-0706-120MM-20201010	2402 – 2480 MHz	2.3dBi
Note: Antenna information is provided by the applicant.				

3.4 配件資訊

以下不附賣配件經申請者切結，器材不隨貨提供並由實驗室提供併同檢驗。

是否附賣		配件	廠牌	型號	Power Rating (Vdc)
Yes	No				
☐	☒	Mouse	Detrols	CM-335	N/A
☐	☒	Ethernet cable	ETL VERIFIED	EIA-568B CAT.5E	N/A

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4 產品特性

此裝置符合IEEE Std 802.11b/g/n標準。其發射頻率落於2.4GHz至2.4835GHz。
802.11b mode採用直接序列展頻 (Direct Sequence Spread Spectrum) 調變技術之發射頻率全段：落於2400~2483.5GHz共有11個頻道; 802.11g/n HT20採用正交分頻多工OFDM調變技術有全段：落於2400~2483.5GHz 共有11個頻道。

2.4 GHz使用頻率表如下:

802.11b/g/n HT 20 Mode	
頻率範圍 2400 MHz – 2483.5 MHz	
2412	2442
2417	2447
2422	2452
2427	2457
2432	2462
2437	

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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 15.247 之檢驗法。

項次	測試項目	適用規範	測試結果
1	場強輻射	低功率射頻器材技術規範 3.5 & 3.6 節	合格
2	電源線傳導干擾	低功率射頻器材技術規範3.3節	合格
3	天線增益之要求	低功率射頻器材技術規範4.10.1.3 (1) 節	合格
4	發射頻寬	低功率射頻器材技術規範4.10.1.6(2) (A) 節	合格
5	輸出峰值功率	低功率射頻器材技術規範4.10.1.2(1) (C) 節	合格
6	帶外發射限制	低功率射頻器材技術規範4.10.1.5節	合格
7	功率密度	低功率射頻器材技術規範4.10.1.6(2) (B) 節	合格

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6 量測模式

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

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	ch0

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	ch0

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	ch0
802.11g	1 to 11	1,6,11	OFDM	6	ch0
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	ch0

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7 適用規範

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	

依據 NCC 低功率射頻器材技術規範 3.9 節之要求，收、發信機為成套銷售者，收、發信機應一併送審或提供經型式認證合格之對應收、發信機之送審資料；送信機之輻射電場強度不得超過第 3.6 節之發射規定，且不得接收、解調第 3.5 節所列之頻率。

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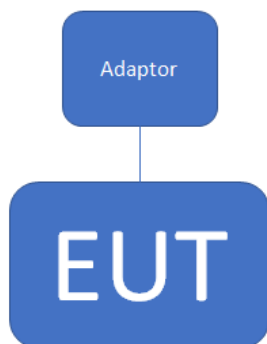
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8 測試配置

8.1 待測物與測試週邊配置圖

Radiated Emission



Conduction (AC Power Line) & Fully System



Conducted (Antenna Port)



8.2 測試週邊描述

編號	產品別	商標	版本	型號	序號
1.	Ampak RFTestool	N/A	VER: 5.8	N/A	N/A
2.	Adapter	SUNLIGHT ELECTRONIC	N/A	GA120020	N/A
3.	Mouse	Detrols	N/A	CM-335	120200959
4.	Notebook	Lenovo	N/A	L480	PF-1S9NT5

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9 量測儀器設備

9.1 AC 電源端傳導干擾之量測儀器

Radiated Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2021	04/08/2022
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021

9.2 天線端傳導測試之量測儀器

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Notebook	Lenovo	L480	PF-1S9NT5	N/A	N/A
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022

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9.3 量測場強輻射之量測儀器

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/11/2020	12/10/2021
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Loop Antenna	ETS.LINDGREN	6502	148045	10/19/2020	10/18/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021

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10 電源線傳導干擾之量測

10.1 適用標準

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。頻率重疊處，以較低限制值為準。

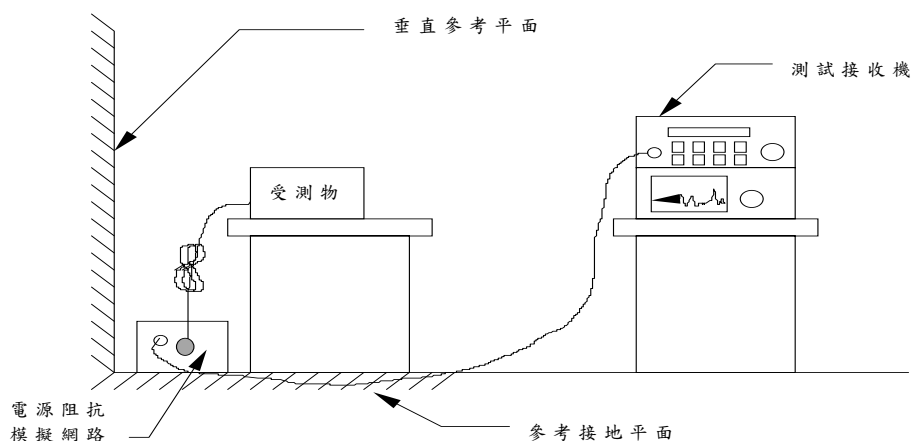
頻率(MHz)	傳導限制值 (dBuV)	
	準峰值 (Quasi – peak)	平均值 (Average)
0.15 – 0.5	66 – 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

10.2 測試方法

將待測物置於0.8米高的非金屬桌面(台式支架台)及將待測物置於10mm高的非金屬絕緣墊(高低調節支架+高低調節支架台)，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。

10.3 測試配置

台式支架台

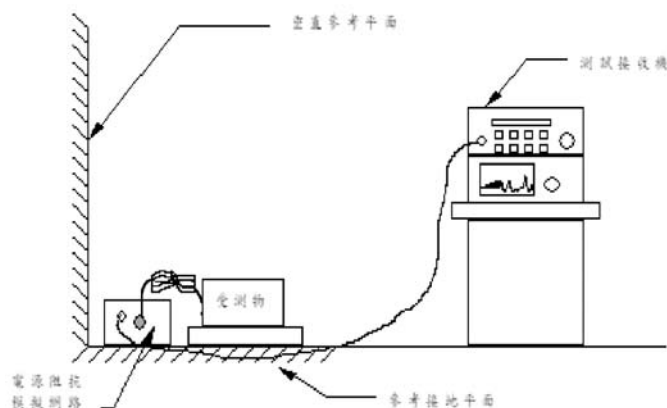


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高低調節支架+高低調節支架台



10.4 干擾值之計算

電源傳導干擾電壓之計算公式 =
儀器讀值(QP/AV) + 校正因子 (饋線損失 + 電源阻抗模擬網路損失)

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10.5 傳導干擾之量測結果

高低調節支架+高低調節支架台

Report Number :ER-2021-60022

Test Site :Conduction 6F

Test Mode :Operation

Test Date :2021-06-30

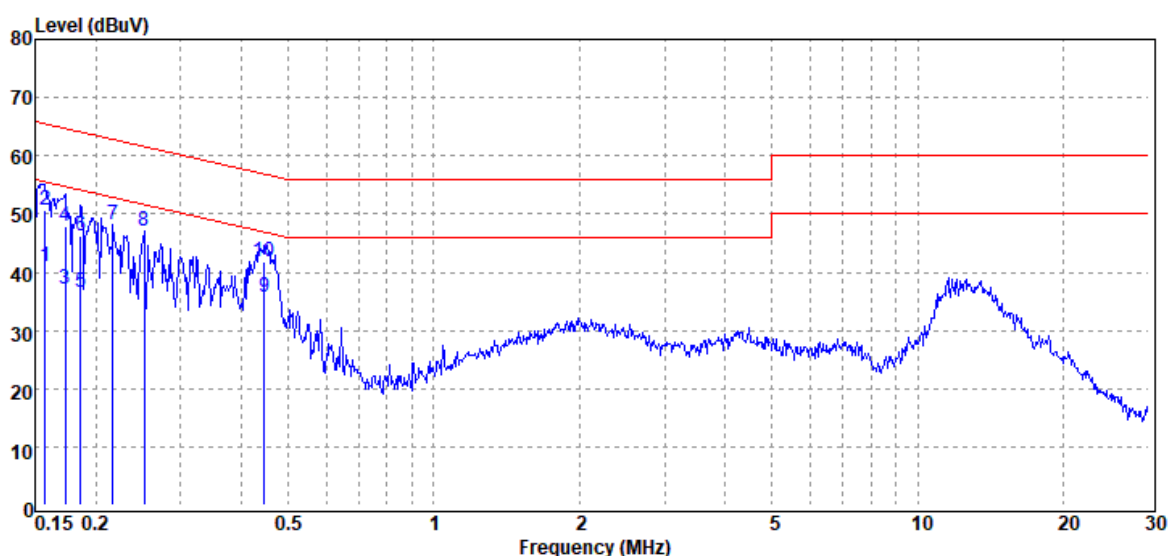
Power :AC 110V/60Hz

Temp./Humi. :25.8/64

Probe :L

Engineer :Neo Tsai

Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Average	40.80	0.04	40.84	55.60	-14.76
0.16	QP	50.50	0.04	50.54	65.60	-15.06
0.17	Average	37.10	0.04	37.14	54.81	-17.67
0.17	QP	47.80	0.04	47.84	64.81	-16.97
0.19	Average	36.60	0.04	36.64	54.20	-17.56
0.19	QP	46.30	0.04	46.34	64.20	-17.86
0.22	Peak	48.25	0.04	48.29	62.92	-14.63
0.25	Peak	46.91	0.04	46.95	61.69	-14.74
0.45	Average	35.60	0.13	35.73	46.93	-11.20
0.45	QP	41.70	0.13	41.83	56.93	-15.10

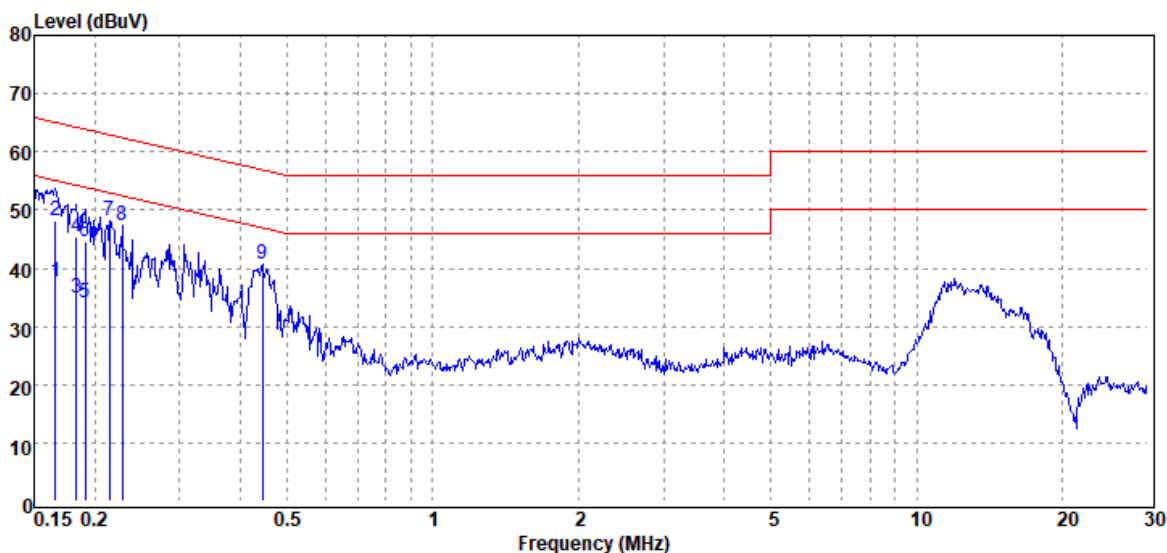
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Report Number :ER-2021-60022
Test Mode :Operation
Power :AC 110V/60Hz
Probe :N
Note: :

Test Site :Conduction 6F
Test Date :2021-06-30
Temp./Humi. :25.8/64
Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.17	Average	37.60	0.11	37.71	55.16	-17.45
0.17	QP	48.10	0.11	48.21	65.16	-16.95
0.18	Average	34.76	0.11	34.87	54.33	-19.46
0.18	QP	45.26	0.11	45.37	64.33	-18.96
0.19	Average	33.98	0.11	34.09	53.98	-19.89
0.19	QP	44.48	0.11	44.59	63.98	-19.39
0.22	Peak	47.92	0.11	48.03	63.01	-14.98
0.23	Peak	47.19	0.11	47.30	62.52	-15.22
0.44	Peak	40.42	0.19	40.61	56.98	-16.37

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台式支架台

Report Number :ER-2021-60022

Test Site :Conduction 6F

Test Mode :Operation

Test Date :2021-07-01

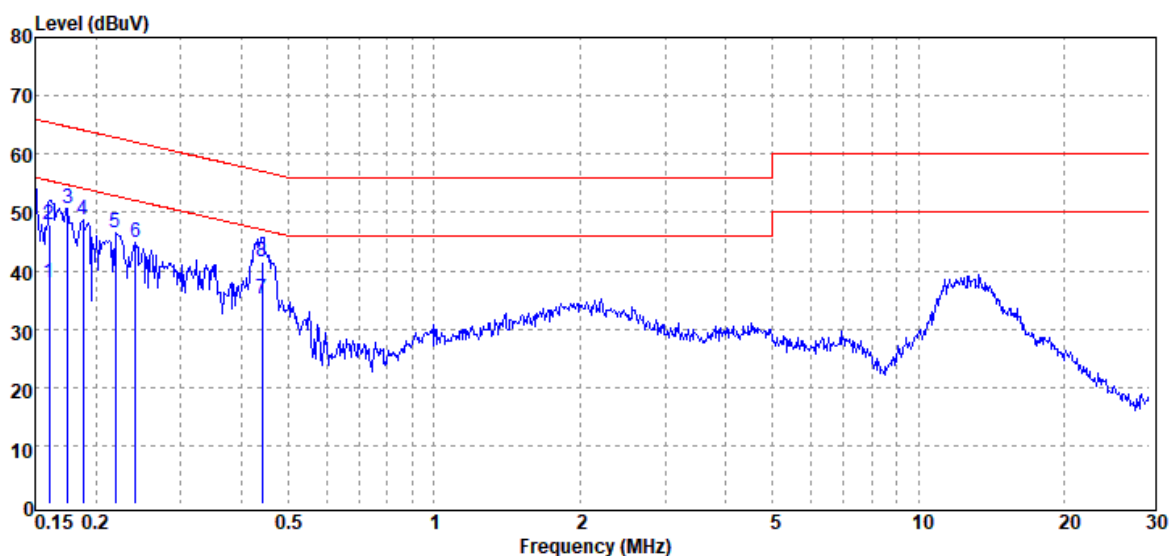
Power :AC 110V/60Hz

Temp./Humi. :25.3/62

Probe :L

Engineer :Neo Tsai

Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.16	Average	37.80	0.04	37.84	55.43	-17.59
0.16	QP	47.90	0.04	47.94	65.43	-17.49
0.17	Peak	50.51	0.04	50.55	64.72	-14.17
0.19	Peak	48.57	0.04	48.61	64.11	-15.50
0.22	Peak	46.58	0.04	46.62	62.83	-16.21
0.24	Peak	44.91	0.04	44.95	62.04	-17.09
0.44	Average	35.00	0.13	35.13	47.02	-11.89
0.44	QP	41.40	0.13	41.53	57.02	-15.49

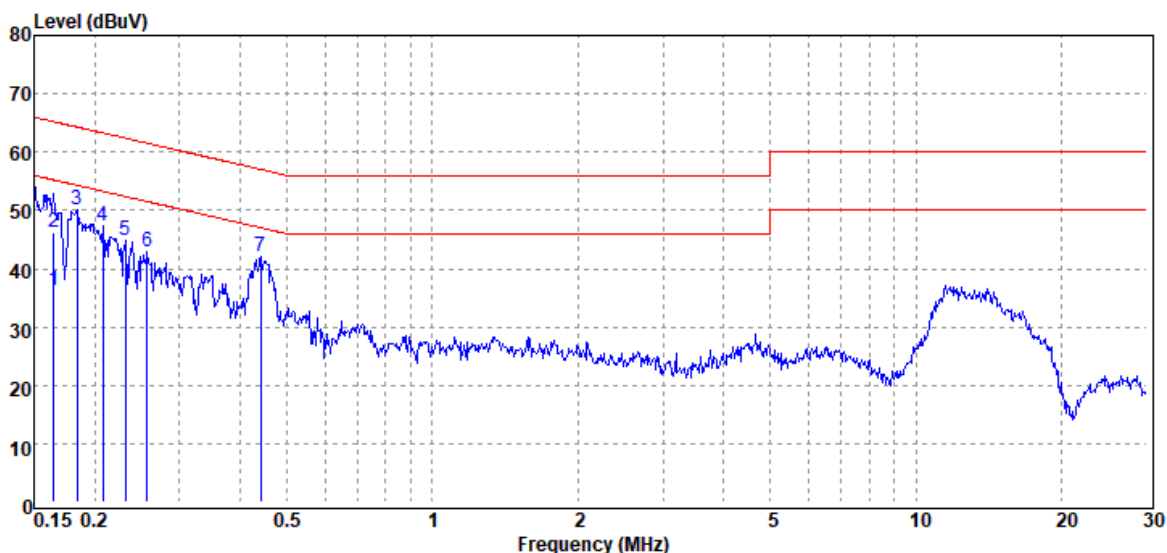
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Report Number :ER-2021-60022
Test Mode :Operation
Power :AC 110V/60Hz
Probe :N
Note: :

Test Site :Conduction 6F
Test Date :2021-07-01
Temp./Humi. :25.3/62
Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.17	Average	36.10	0.11	36.21	55.21	-19.00
0.17	QP	46.10	0.11	46.21	65.21	-19.00
0.18	Peak	50.02	0.11	50.13	64.28	-14.15
0.21	Peak	47.19	0.11	47.30	63.27	-15.97
0.23	Peak	44.86	0.11	44.97	62.39	-17.42
0.26	Peak	42.85	0.11	42.96	61.51	-18.55
0.44	Peak	41.80	0.19	41.99	57.02	-15.03

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11 場強輻射之量測

11.1 適用標準

依據NCC低功率射頻器材技術規範3.6之要求，低功率射頻器材其電場強度應小於或等於下表之限制值，且其不必要之發射皆不得大於主波發射強度，此外，落於3.5禁用頻段之輻射發射，應符合3.6之規定。

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

11.2 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(台式支架台)及將待測物置於非金屬桌面，測試頻率1GHz以下時，使用絕緣墊高10mm，1GHz以上時，使用絕緣墊10mm(高低調節支架+高低調節支架台)，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
1GHz以下	100kHz	100kHz	Peak / Quasi-Peak
1GHz以上	1MHz	3MHz	Peak
1GHz以上 Duty Cycle ≥ 98%	1MHz	10Hz	Average
1GHz以上 Duty Cycle < 98%	1MHz	1/T	Average

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11.3 場強計算

1. Distance extrapolation = $40 \cdot \log (\text{Required Distance(m)} / \text{Test Distance(m)})$
2. Emission level (dB μ V/m) = $20 \log \text{Emission level } (\mu\text{V/m})$
3. Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)
Factor(dB) = Antenna Factor(dB μ V/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 Plane、E1 Plane 和 E2 Plane 測試值後，附上最差模式數據。

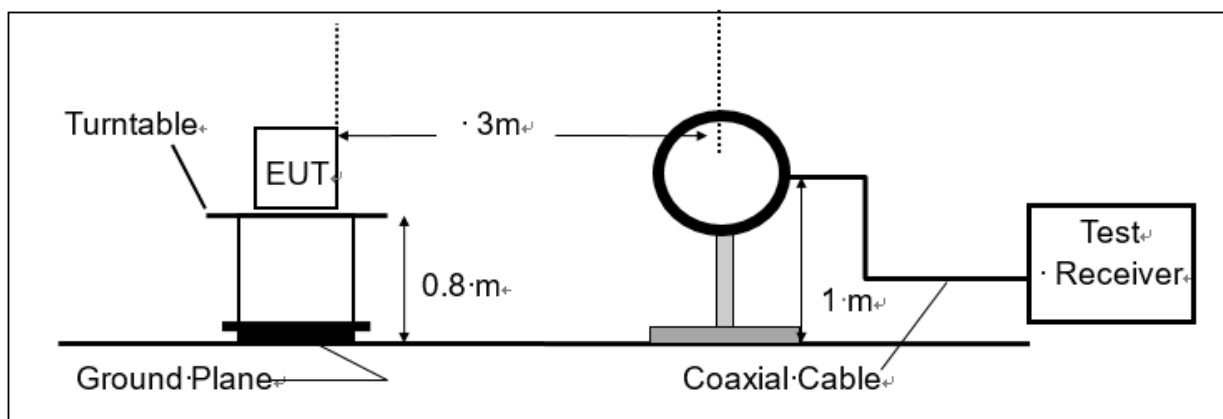
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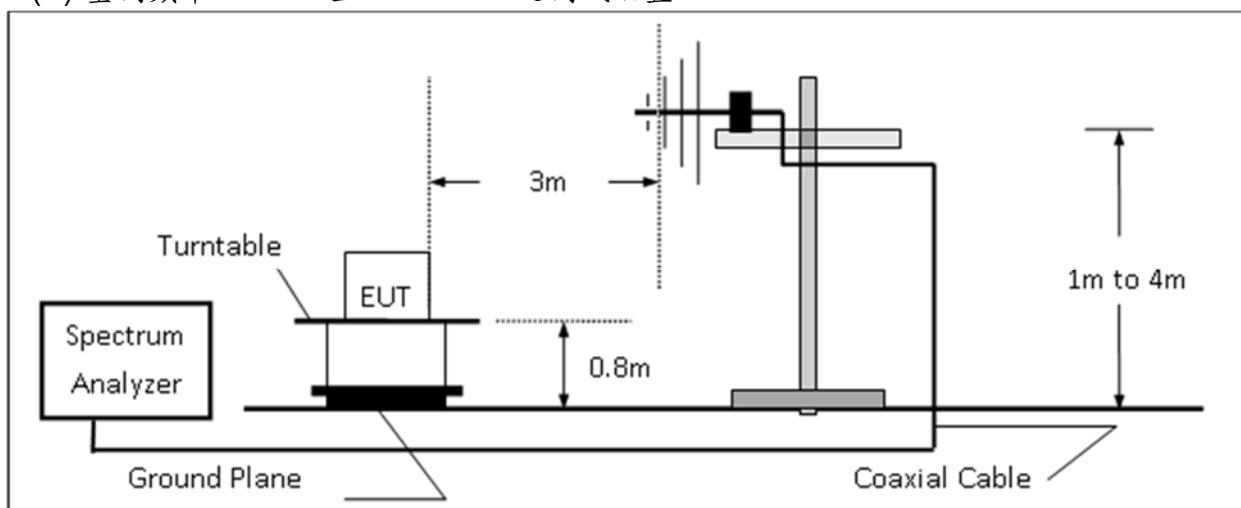
11.4 輻射之測試配置

台式支架台

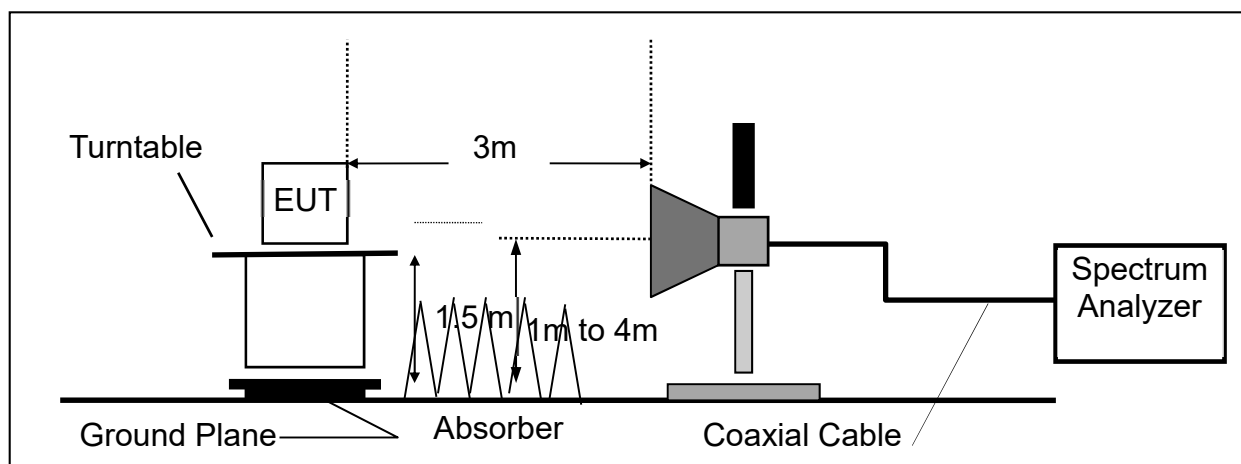
(A) 量測頻率低於 30MHz 以下之測試配置



(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



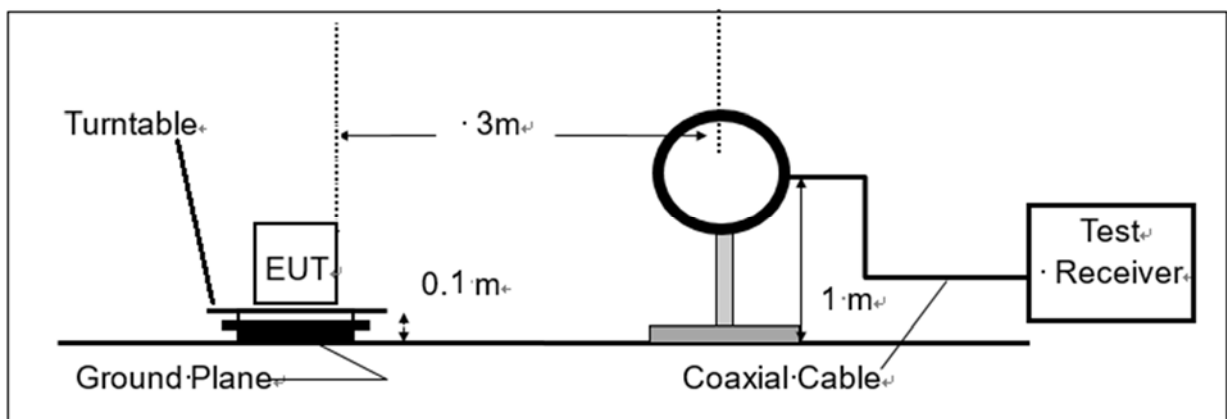
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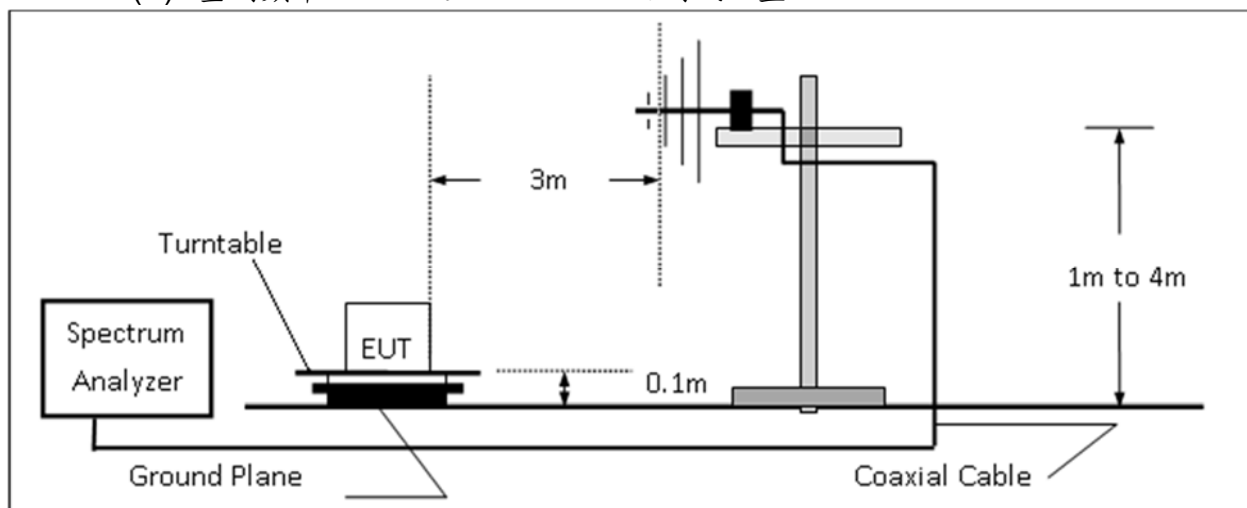
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高低調節支架+高低調節支架台

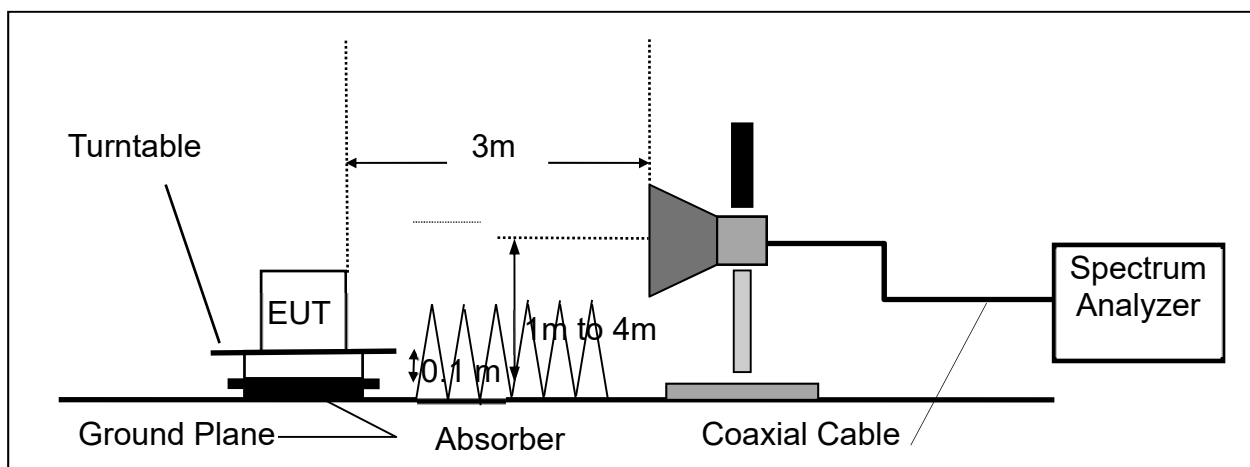
(A) 量測頻率低於 30MHz 以下之測試配置



(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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11.5 場強輻射之量測結果

11.5.1 禁用頻帶輻射量測值

Report Number :ER/2021/60024

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

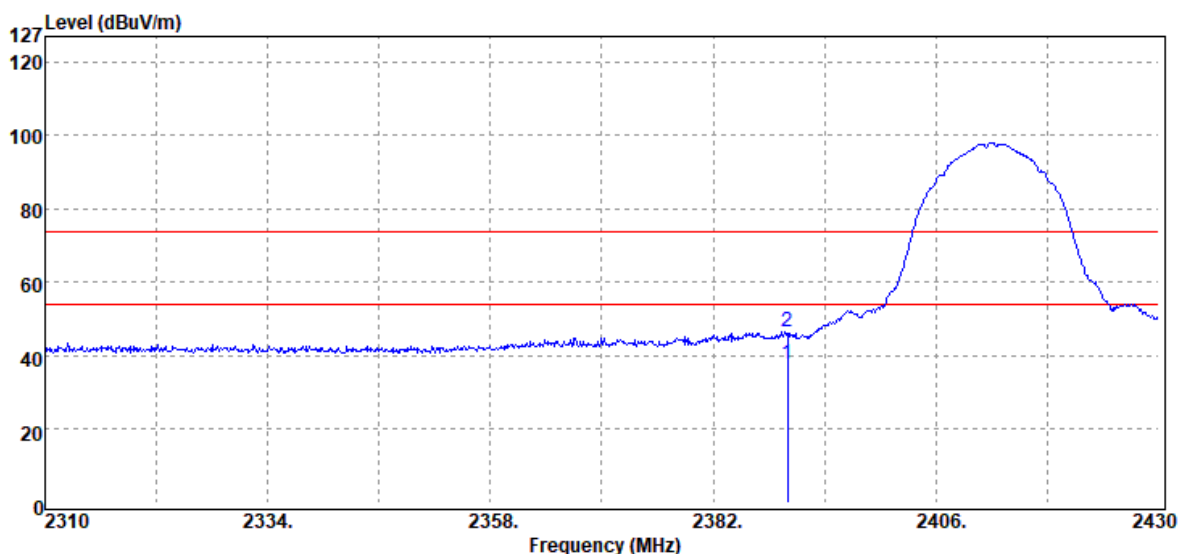
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :VERTICAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.09	-0.12	37.97	54.00	-16.03
2390.00	Peak	46.72	-0.12	46.60	74.00	-27.40

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Report Number :ER/2021/60024

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

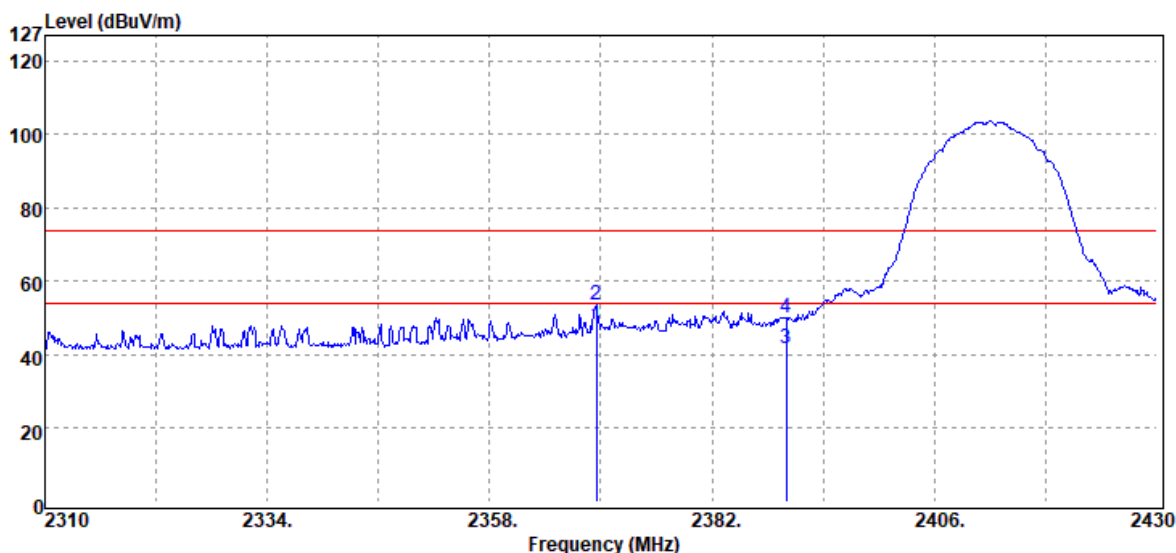
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :HORIZONTAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2369.52	Average	48.01	-0.05	47.96	54.00	-6.04
2369.52	Peak	53.44	-0.05	53.39	74.00	-20.61
2390.00	Average	41.80	-0.12	41.68	54.00	-12.32
2390.00	Peak	50.05	-0.12	49.93	74.00	-24.07

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Report Number :ER/2021/60024

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

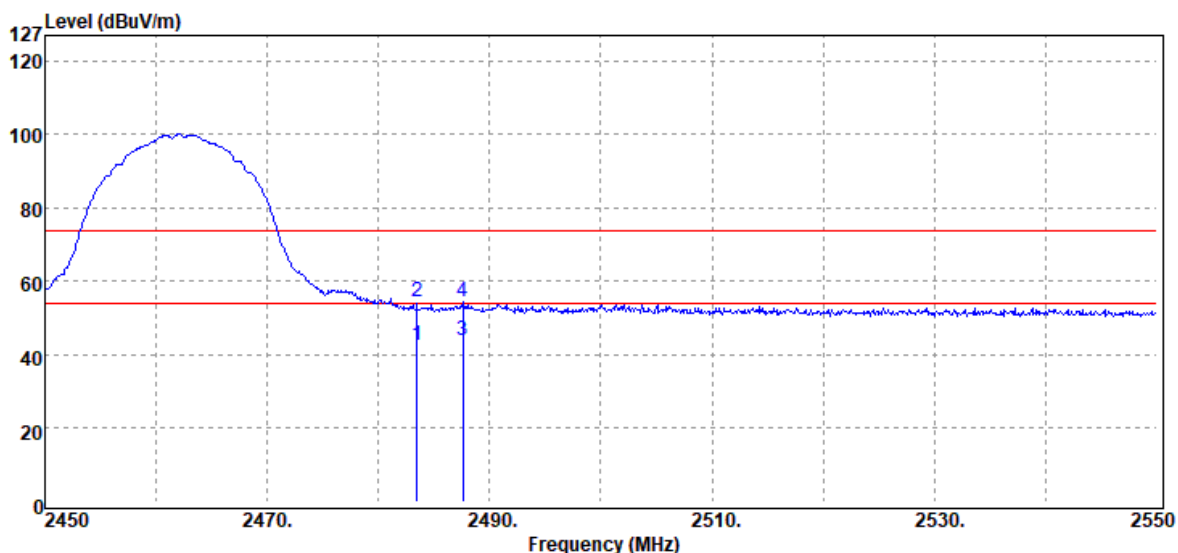
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :VERTICAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	42.93	-0.16	42.77	54.00	-11.23
2483.50	Peak	54.70	-0.16	54.54	74.00	-19.46
2487.60	Average	44.04	-0.16	43.88	54.00	-10.12
2487.60	Peak	54.70	-0.16	54.54	74.00	-19.46

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Report Number :ER/2021/60024

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

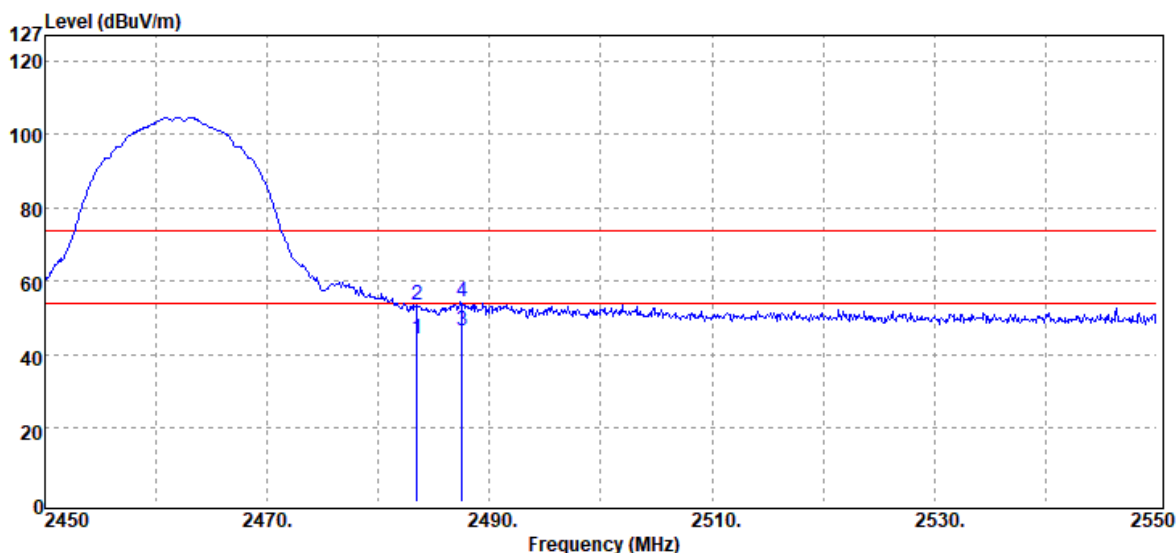
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :HORIZONTAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	44.72	-0.16	44.56	54.00	-9.44
2483.50	Peak	53.75	-0.16	53.59	74.00	-20.41
2487.50	Average	46.57	-0.16	46.41	54.00	-7.59
2487.50	Peak	54.68	-0.16	54.52	74.00	-19.48

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Report Number :ER/2021/60024

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

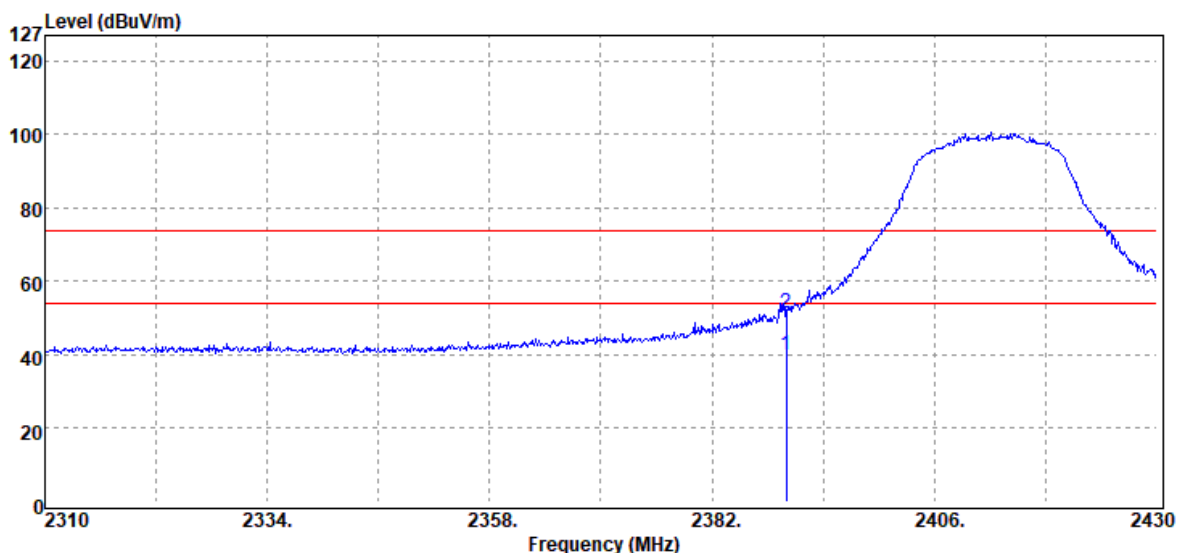
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :VERTICAL

Engineer :GN Lin



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
2390.00	Average	40.20	-0.12	40.08	54.00	-13.92
2390.00	Peak	51.42	-0.12	51.30	74.00	-22.70

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Report Number :ER/2021/60024

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

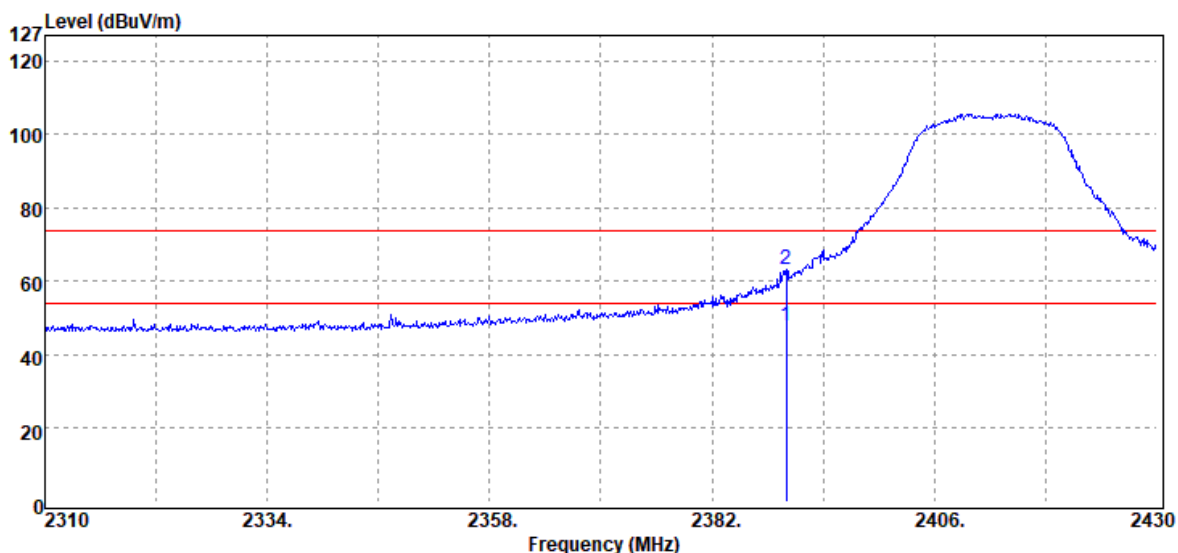
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :HORIZONTAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	48.20	-0.12	48.08	54.00	-5.92
2390.00	Peak	63.32	-0.12	63.20	74.00	-10.80

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Report Number :ER/2021/60024

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

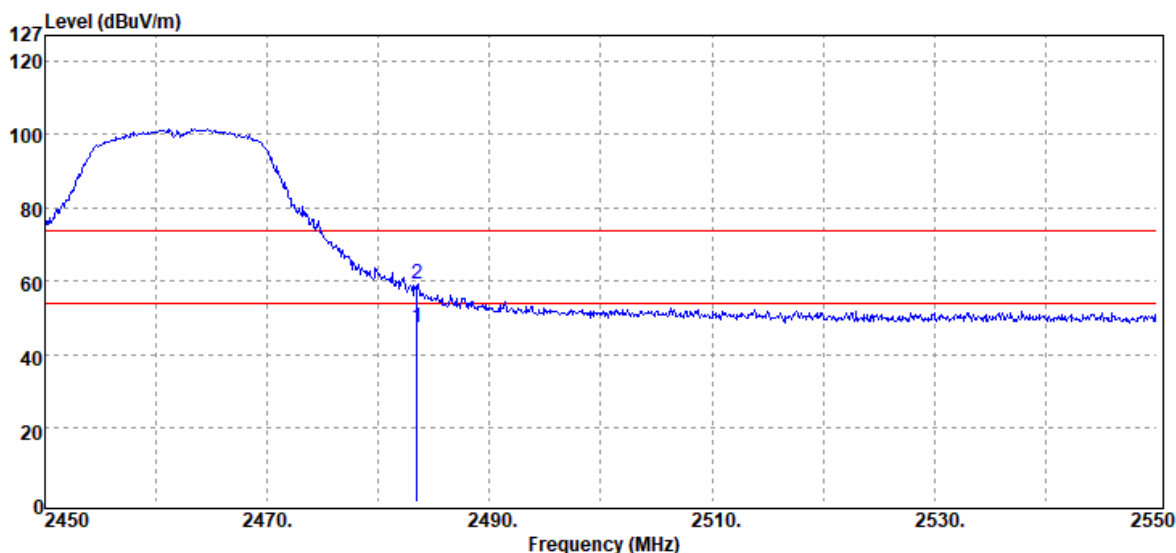
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :VERTICAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	47.72	-0.16	47.56	54.00	-6.44
2483.50	Peak	59.34	-0.16	59.18	74.00	-14.82

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Report Number :ER/2021/60024

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

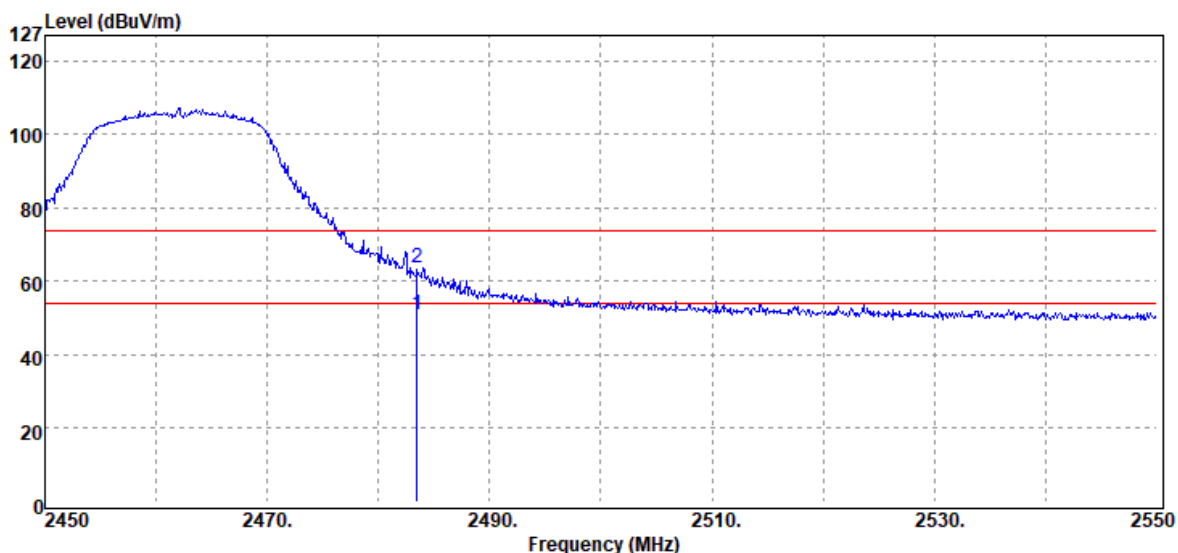
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :HORIZONTAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	51.01	-0.16	50.85	54.00	-3.15
2483.50	Peak	63.88	-0.16	63.72	74.00	-10.28

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Report Number :ER/2021/60024

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

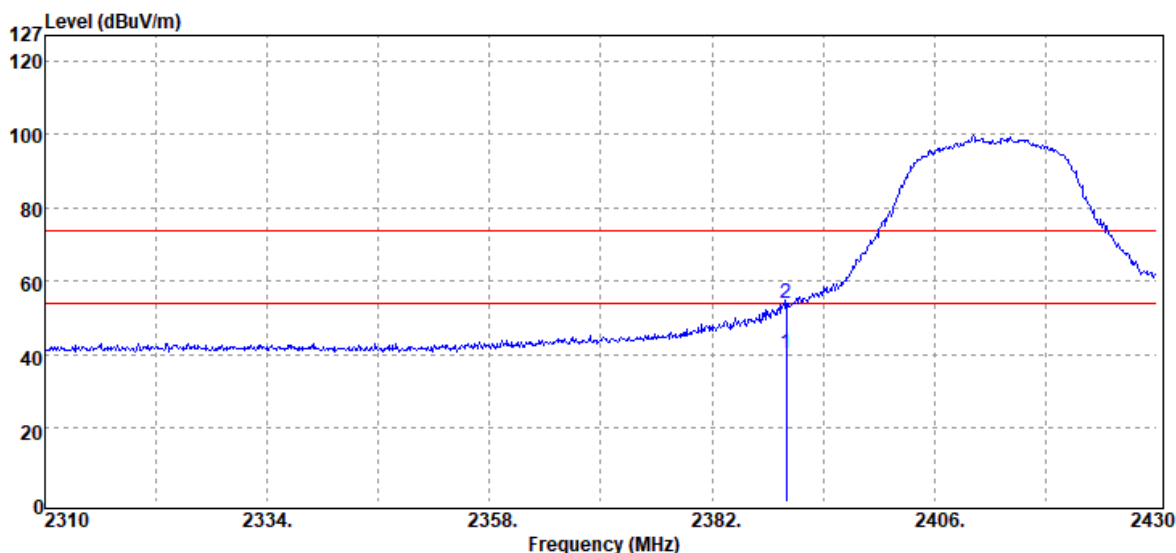
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :VERTICAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	40.34	-0.12	40.22	54.00	-13.78
2390.00	Peak	54.02	-0.12	53.90	74.00	-20.10

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Report Number :ER/2021/60024

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

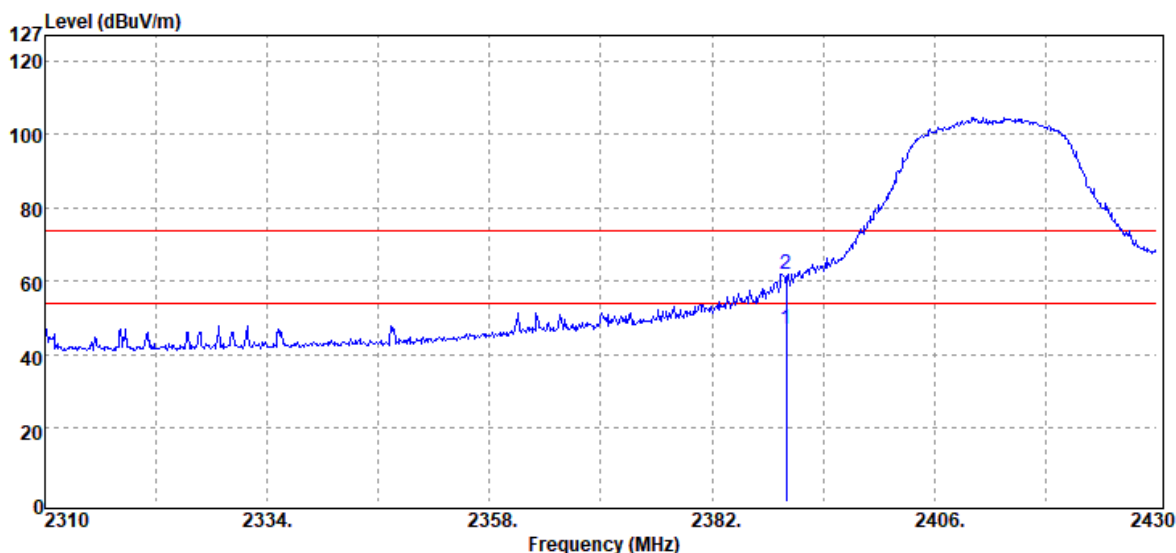
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :HORIZONTAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2390.00	Average	47.09	-0.12	46.97	54.00	-7.03
2390.00	Peak	62.06	-0.12	61.94	74.00	-12.06

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Report Number :ER/2021/60024

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

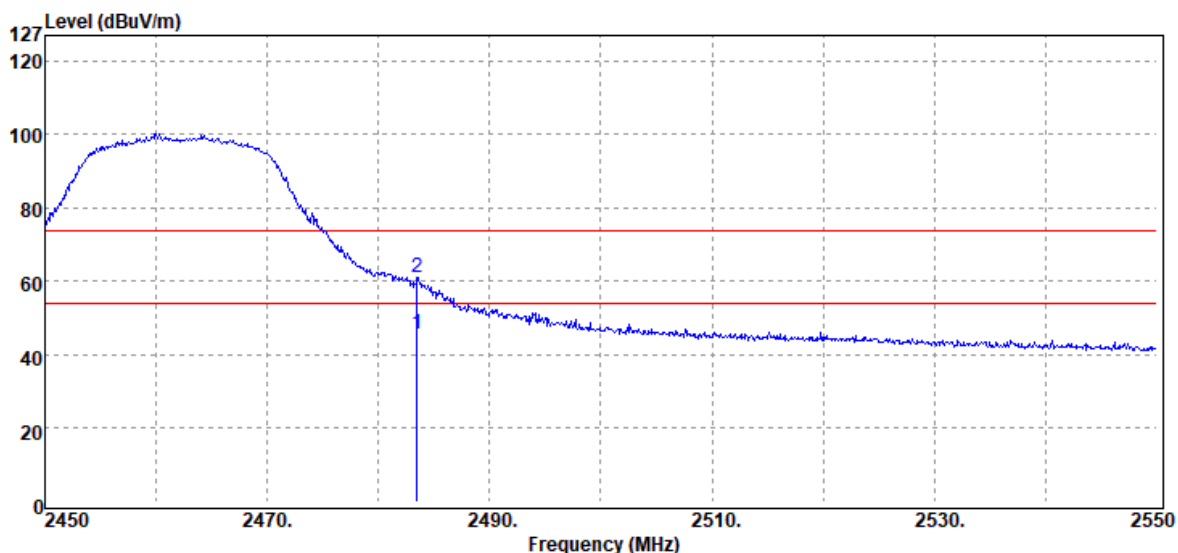
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :VERTICAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Average	45.75	-0.16	45.59	54.00	-8.41
2483.50	Peak	61.05	-0.16	60.89	74.00	-13.11

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Report Number :ER/2021/60024

Operation Mode :802.11n20

Test Frequency :2462 MHz

Test Mode :Bandedge CH High

EUT Pol :H Plane

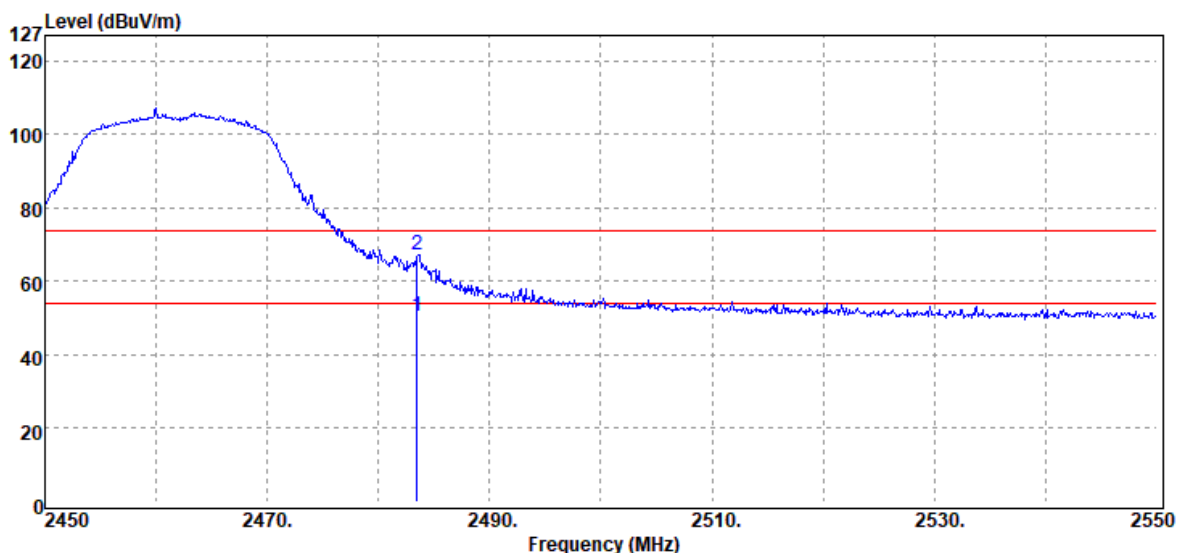
Test Site :SAC I Chamber

Test Date :2021-06-12

Temp./Humi. :26.5/63

Antenna Pol. :HORIZONTAL

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.50	Average	50.78	-0.16	50.62	54.00	-3.38
2483.50	Peak	67.55	-0.16	67.39	74.00	-6.61

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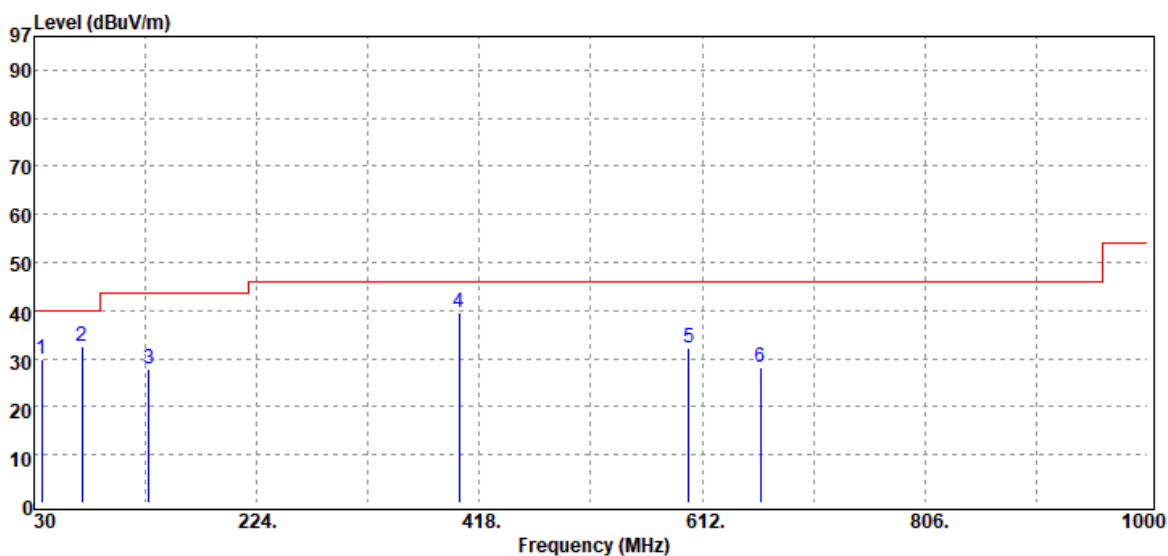
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11.5.2 發射模式 1GHz 以下測試 (最差模式)

Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
36.79	Peak	38.38	-8.40	29.98	40.00	-10.02
71.71	Peak	50.11	-17.50	32.61	40.00	-7.39
129.91	Peak	39.71	-11.80	27.91	43.50	-15.59
400.54	Peak	46.61	-6.89	39.72	46.00	-6.28
600.36	Peak	37.22	-4.86	32.36	46.00	-13.64
662.44	Peak	31.56	-3.45	28.11	46.00	-17.89

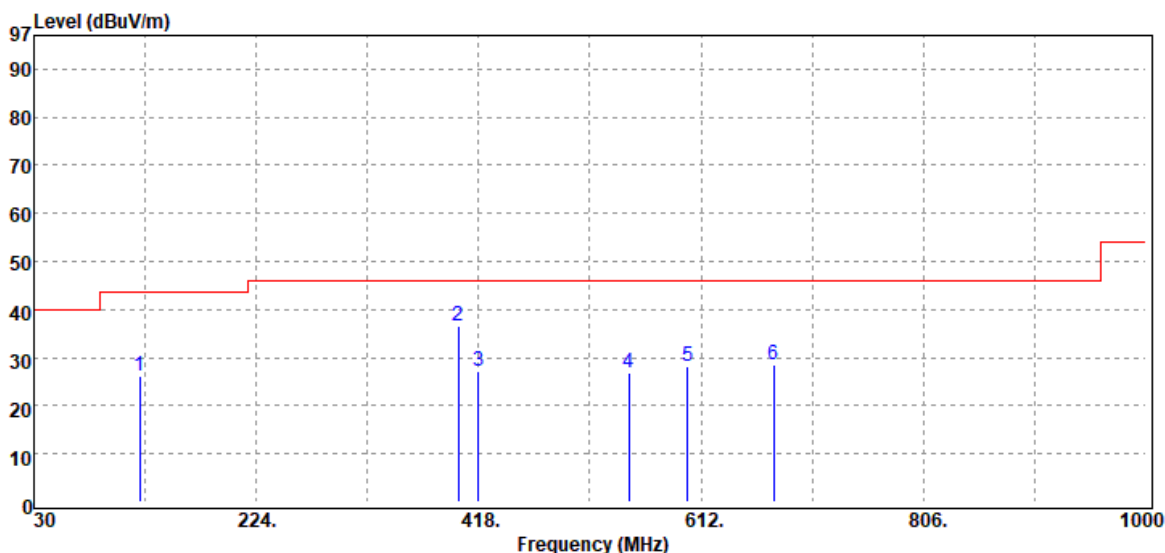
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
122.15	Peak	37.71	-11.69	26.02	43.50	-17.48
400.54	Peak	43.59	-6.89	36.70	46.00	-9.30
418.00	Peak	33.59	-6.50	27.09	46.00	-18.91
548.95	Peak	30.57	-3.65	26.92	46.00	-19.08
600.36	Peak	33.16	-4.86	28.30	46.00	-17.70
675.05	Peak	31.62	-3.14	28.48	46.00	-17.52

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Fully System

高低調節支架+高低調節支架台

Report Number :ER/2021/60022

Operation Mode :System

Test Frequency :System

Test Mode :System

EUT Pol :H Plane

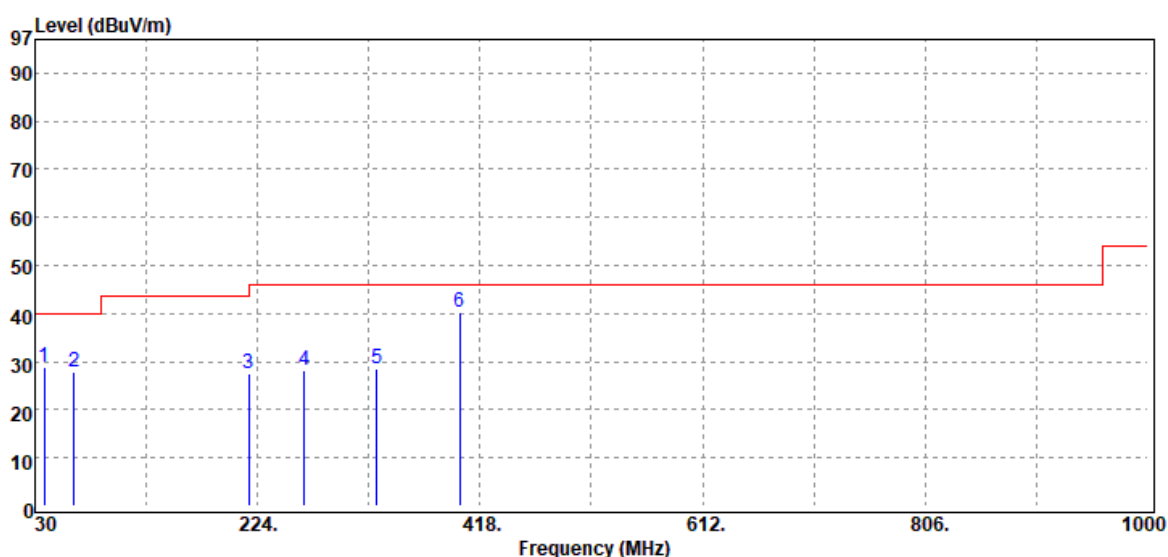
Test Site :SAC I Chamber

Test Date :2021-06-30

Temp./Humi. :26.8/62

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	Peak	38.00	-9.00	29.00	40.00	-11.00
63.95	Peak	45.80	-17.96	27.84	40.00	-12.16
216.24	Peak	41.17	-13.81	27.36	46.00	-18.64
264.74	Peak	37.26	-9.20	28.06	46.00	-17.94
327.79	Peak	37.23	-8.68	28.55	46.00	-17.45
400.54	Peak	47.05	-6.89	40.16	46.00	-5.84

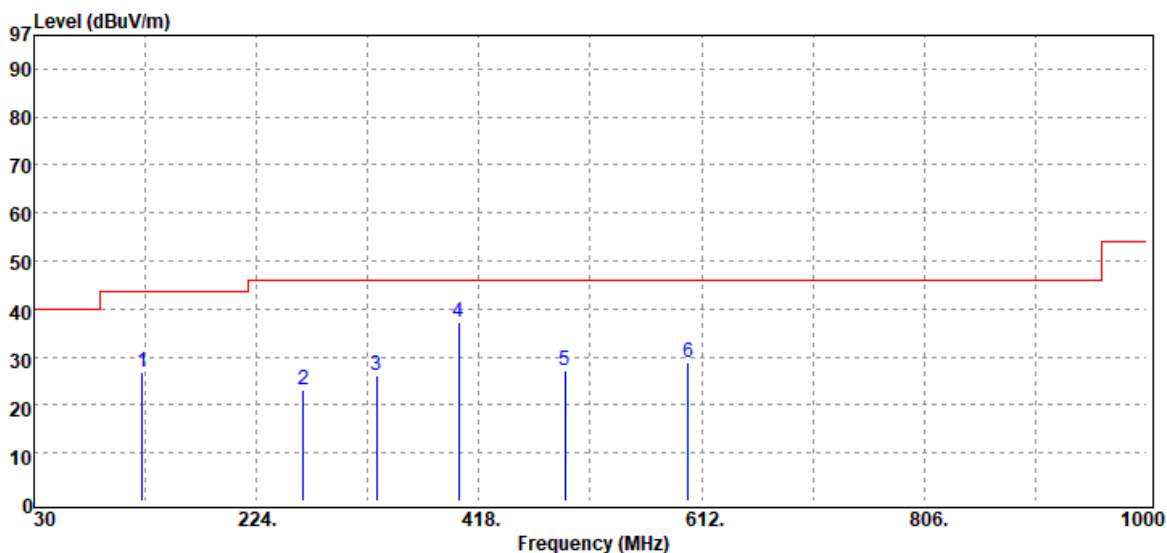
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Report Number :ER/2021/60022
Operation Mode :System
Test Frequency :System
Test Mode :Syetem
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-30
Temp./Humi. :26.8/62
Antenna Pol. :HORIZONTAL
Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
124.09	Peak	38.64	-11.66	26.98	43.50	-16.52
264.74	Peak	32.42	-9.20	23.22	46.00	-22.78
328.76	Peak	34.93	-8.65	26.28	46.00	-19.72
400.54	Peak	44.09	-6.89	37.20	46.00	-8.80
492.69	Peak	32.97	-5.85	27.12	46.00	-18.88
600.36	Peak	33.64	-4.86	28.78	46.00	-17.22

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台式支架台

Report Number :ER/2021/60022

Operation Mode :System

Test Frequency :System

Test Mode :System

EUT Pol :H Plane

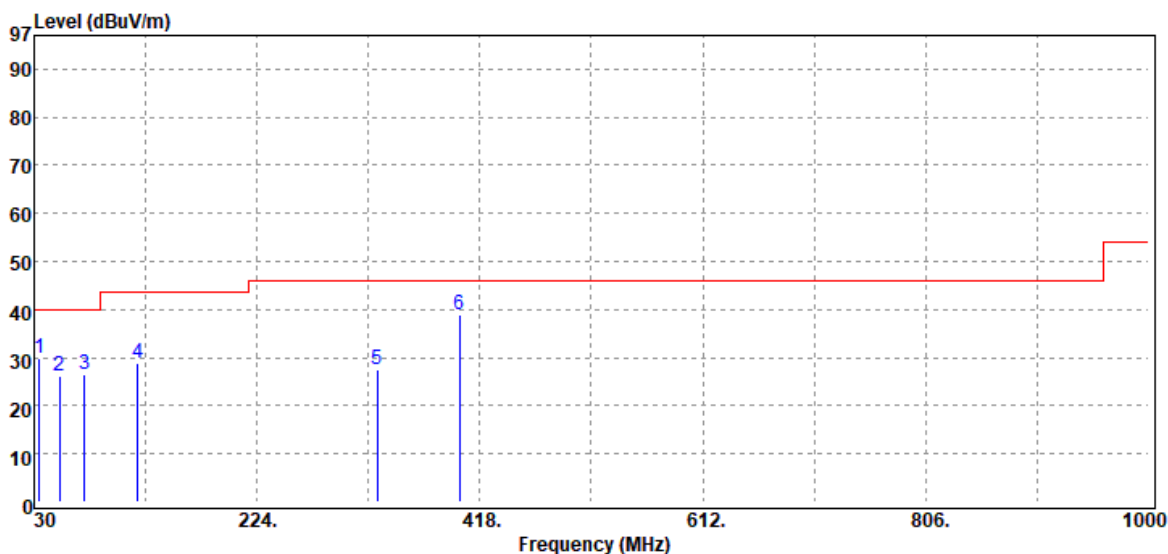
Test Site :SAC I Chamber

Test Date :2021-07-01

Temp./Humi. :26.5/60

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.85	Peak	36.88	-7.09	29.79	40.00	-10.21
52.31	Peak	43.07	-16.73	26.34	40.00	-13.66
73.65	Peak	43.99	-17.59	26.40	40.00	-13.60
120.21	Peak	40.49	-11.73	28.76	43.50	-14.74
328.76	Peak	36.06	-8.65	27.41	46.00	-18.59
400.54	Peak	45.86	-6.89	38.97	46.00	-7.03

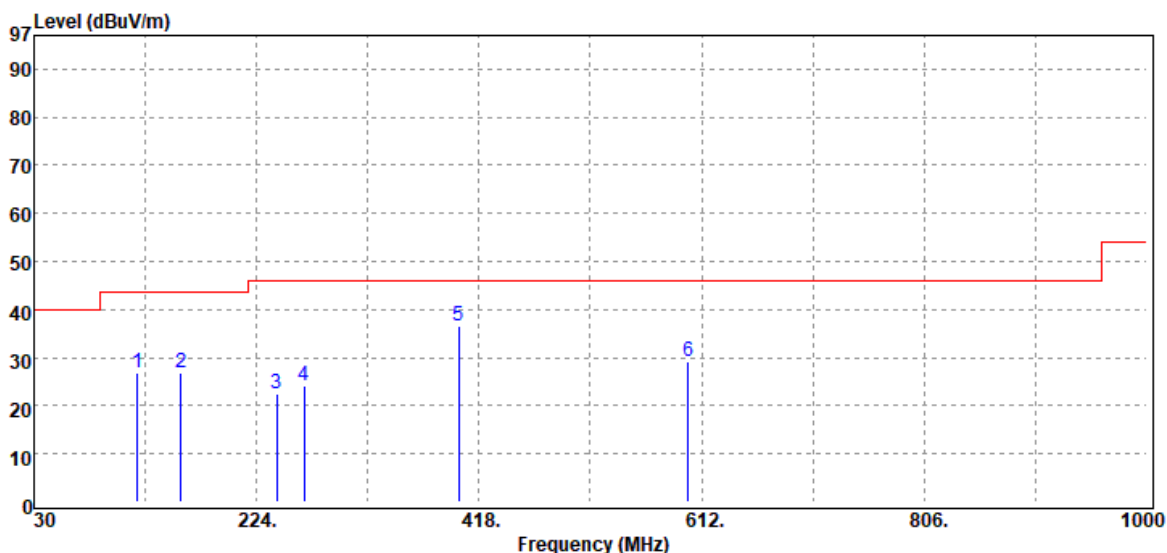
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Report Number :ER/2021/60022
Operation Mode :System
Test Frequency :System
Test Mode :System
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-07-01
Temp./Humi. :26.5/60
Antenna Pol. :HORIZONTAL
Engineer :Neo Tsai



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
120.21	Peak	38.65	-11.73	26.92	43.50	-16.58
158.04	Peak	40.20	-13.20	27.00	43.50	-16.50
241.46	Peak	33.53	-11.08	22.45	46.00	-23.55
265.71	Peak	33.58	-9.30	24.28	46.00	-21.72
400.54	Peak	43.48	-6.89	36.59	46.00	-9.41
600.36	Peak	34.17	-4.86	29.31	46.00	-16.69

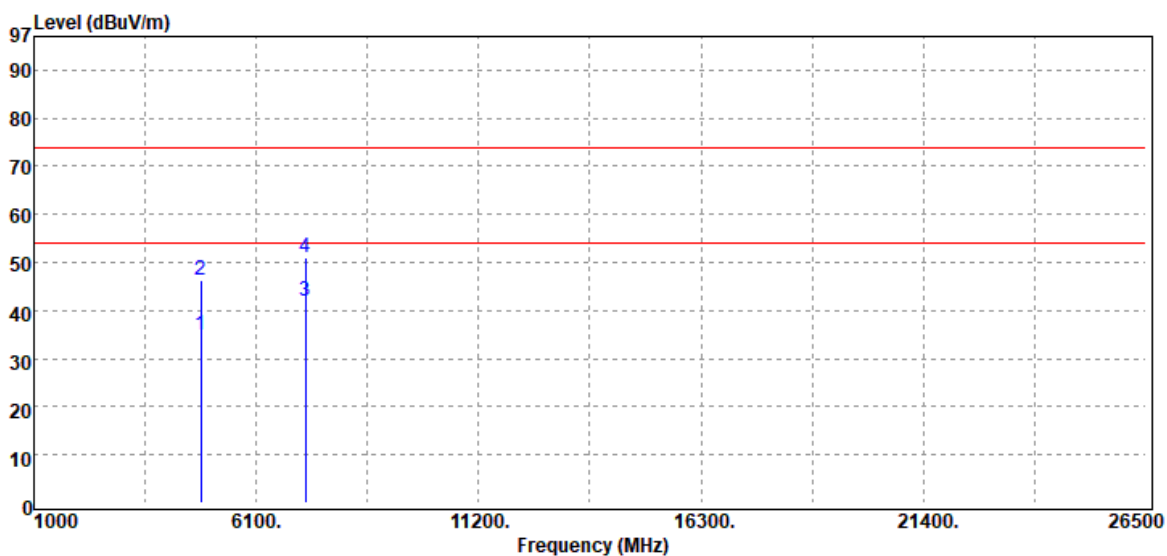
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11.5.3 發射模式 1GHz 以上測試

Report Number :ER/2021/60024
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC I Chamber
 Test Date :2021-06-12
 Temp./Humi. :26.5/63
 Antenna Pol. :VERTICAL
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.54	7.21	34.75	54.00	-19.25
4824.00	Peak	39.20	7.21	46.41	74.00	-27.59
7236.00	Average	26.58	15.43	42.01	54.00	-11.99
7236.00	Peak	35.62	15.43	51.05	74.00	-22.95

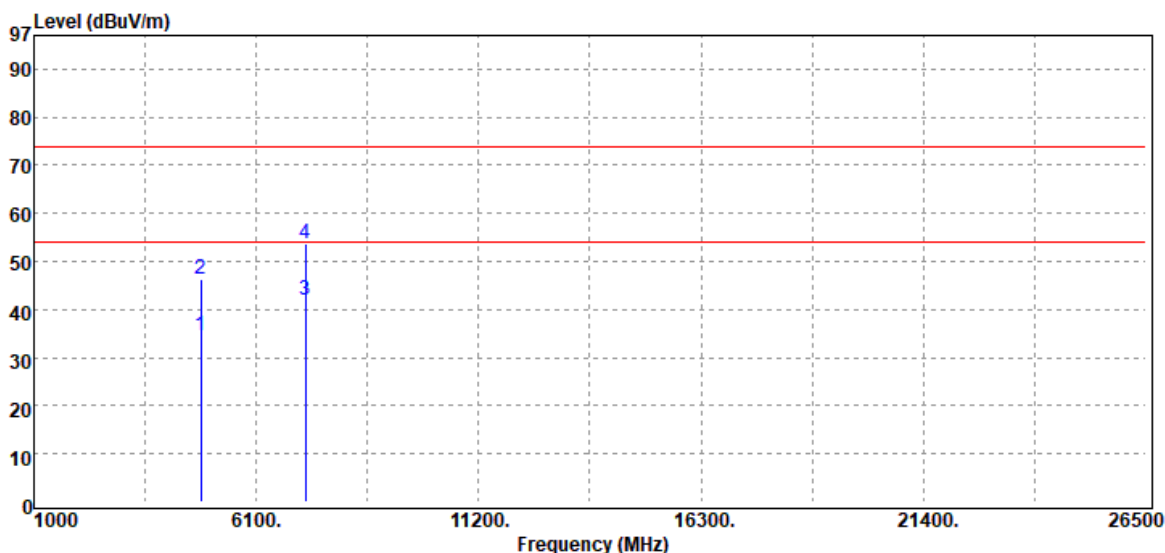
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Report Number :ER/2021/60024
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	27.28	7.21	34.49	54.00	-19.51
4824.00	Peak	39.14	7.21	46.35	74.00	-27.65
7236.00	Average	26.69	15.43	42.12	54.00	-11.88
7236.00	Peak	38.14	15.43	53.57	74.00	-20.43

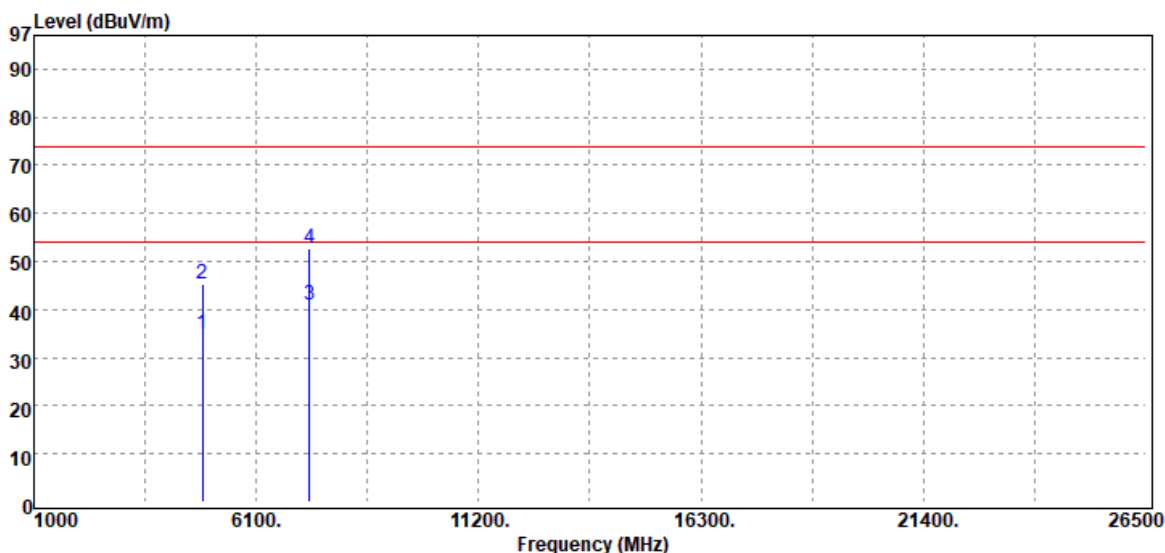
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Report Number :ER/2021/60024
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	28.34	6.70	35.04	54.00	-18.96
4874.00	Peak	38.74	6.70	45.44	74.00	-28.56
7311.00	Average	26.27	14.82	41.09	54.00	-12.91
7311.00	Peak	37.82	14.82	52.64	74.00	-21.36

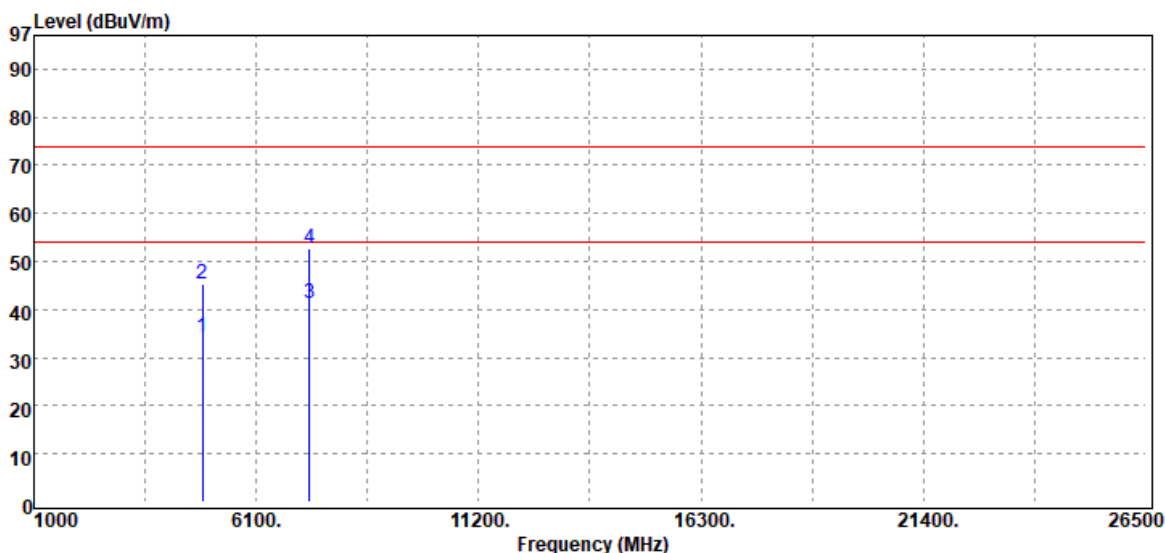
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Report Number :ER/2021/60024
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.00	Average	27.64	6.70	34.34	54.00	-19.66
4874.00	Peak	38.74	6.70	45.44	74.00	-28.56
7311.00	Average	26.37	14.82	41.19	54.00	-12.81
7311.00	Peak	37.72	14.82	52.54	74.00	-21.46

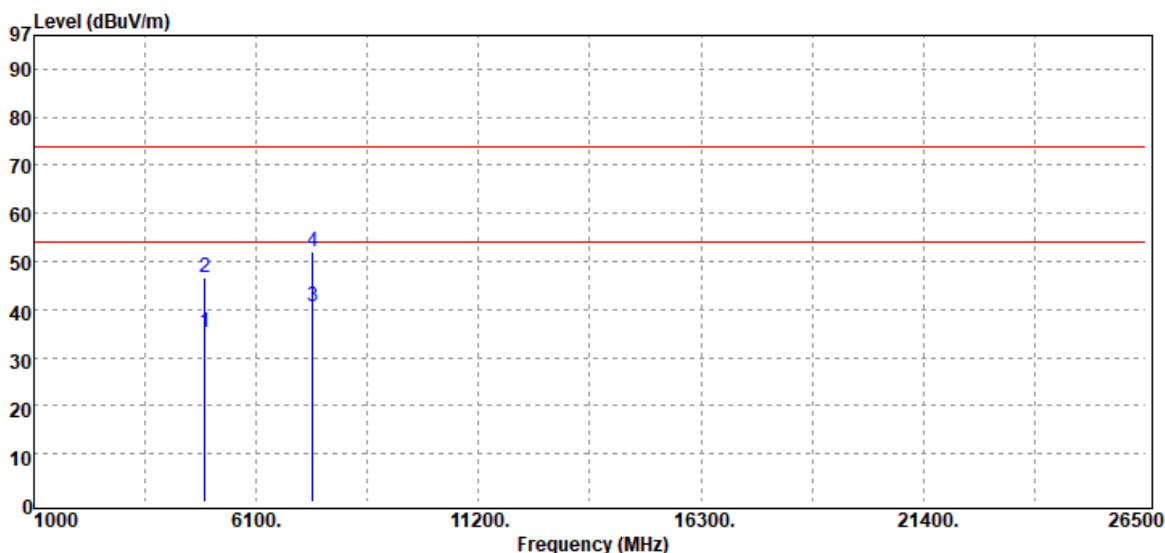
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Report Number :ER/2021/60024
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.79	7.50	35.29	54.00	-18.71
4924.00	Peak	39.22	7.50	46.72	74.00	-27.28
7386.00	Average	26.39	14.20	40.59	54.00	-13.41
7386.00	Peak	37.83	14.20	52.03	74.00	-21.97

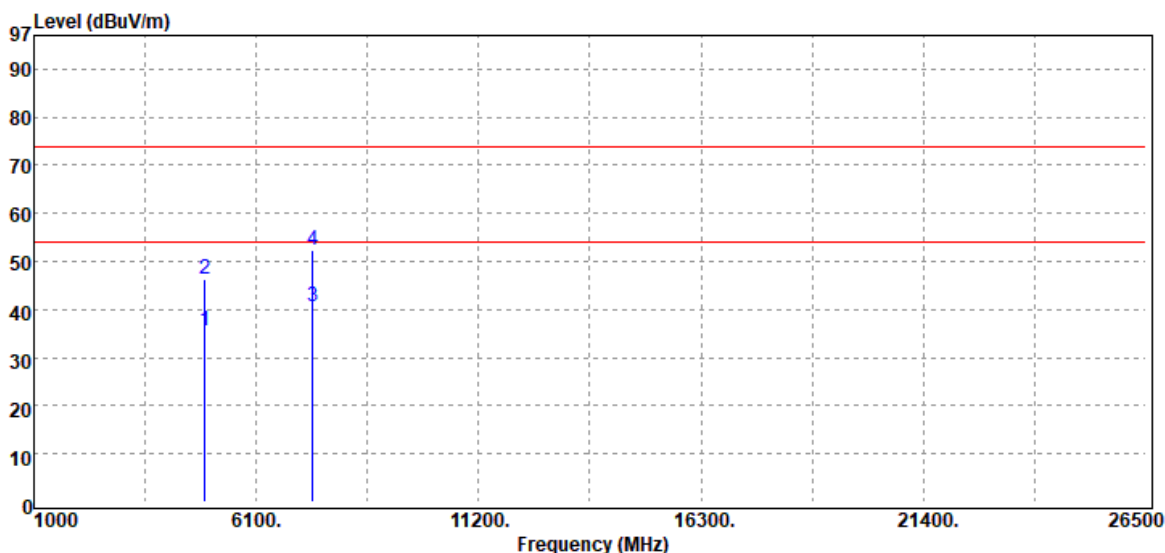
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Report Number :ER/2021/60024
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.00	Average	28.09	7.50	35.59	54.00	-18.41
4924.00	Peak	38.87	7.50	46.37	74.00	-27.63
7386.00	Average	26.38	14.20	40.58	54.00	-13.42
7386.00	Peak	38.02	14.20	52.22	74.00	-21.78

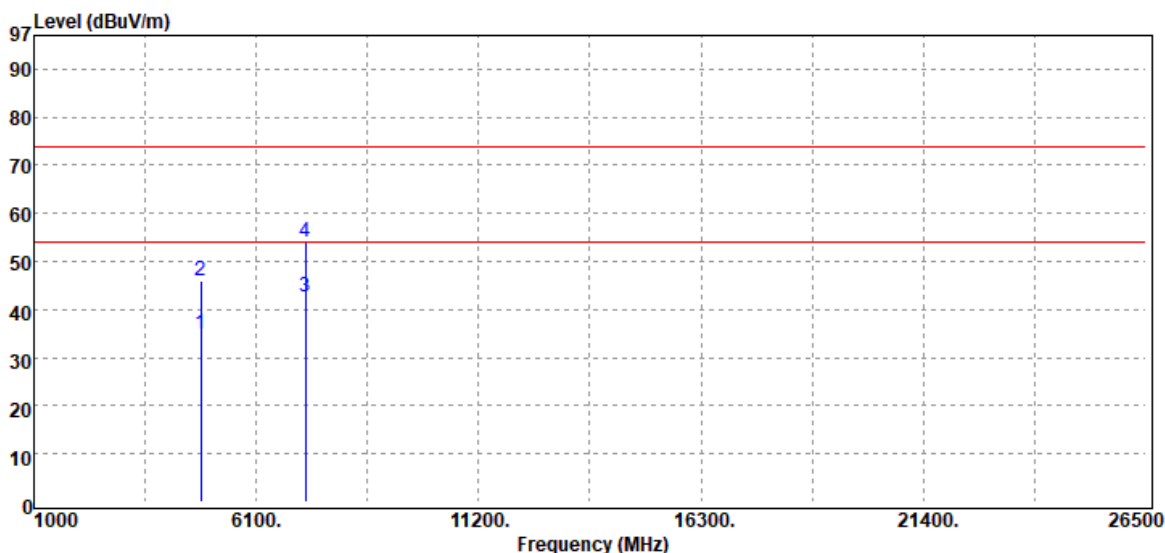
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.74	7.21	34.95	54.00	-19.05
4824.00	Peak	38.80	7.21	46.01	74.00	-27.99
7236.00	Average	27.06	15.43	42.49	54.00	-11.51
7236.00	Peak	38.47	15.43	53.90	74.00	-20.10

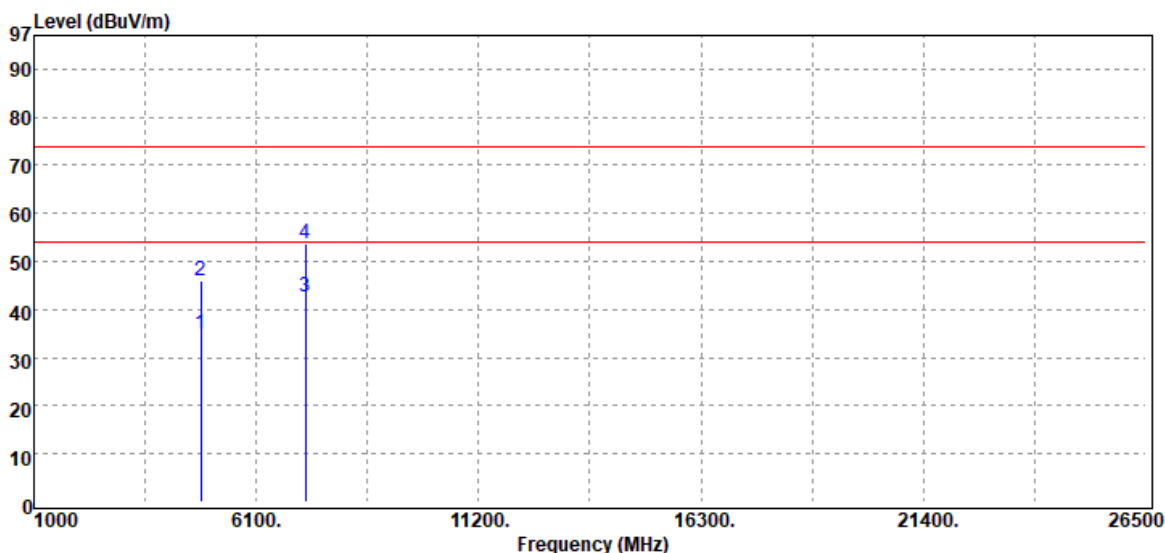
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4824.00	Average	27.75	7.21	34.96	54.00	-19.04
4824.00	Peak	38.89	7.21	46.10	74.00	-27.90
7236.00	Average	27.13	15.43	42.56	54.00	-11.44
7236.00	Peak	38.21	15.43	53.64	74.00	-20.36

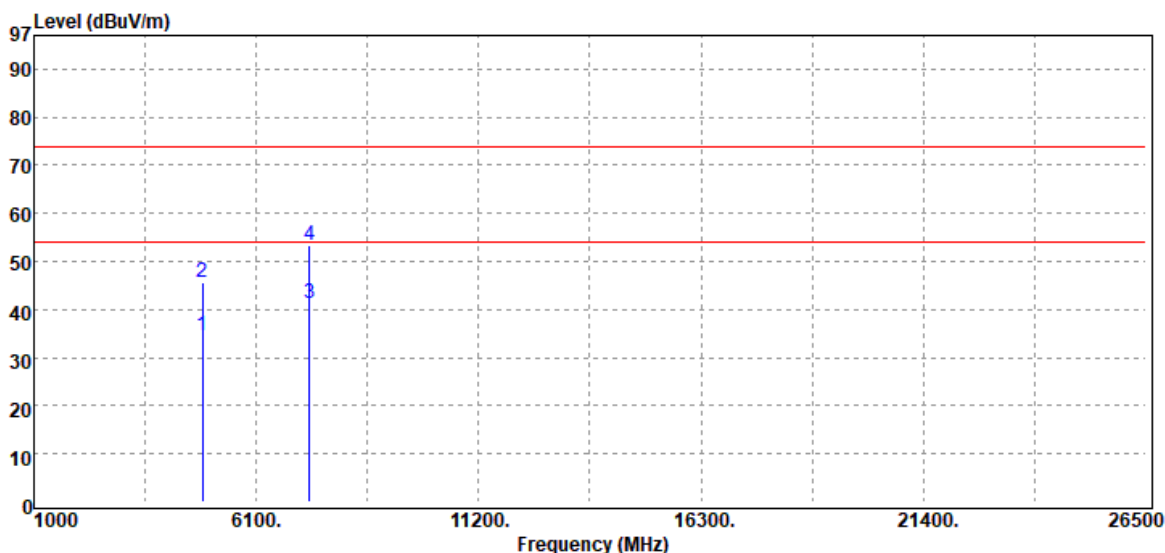
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.86	6.70	34.56	54.00	-19.44
4874.00	Peak	39.03	6.70	45.73	74.00	-28.27
7311.00	Average	26.61	14.82	41.43	54.00	-12.57
7311.00	Peak	38.41	14.82	53.23	74.00	-20.77

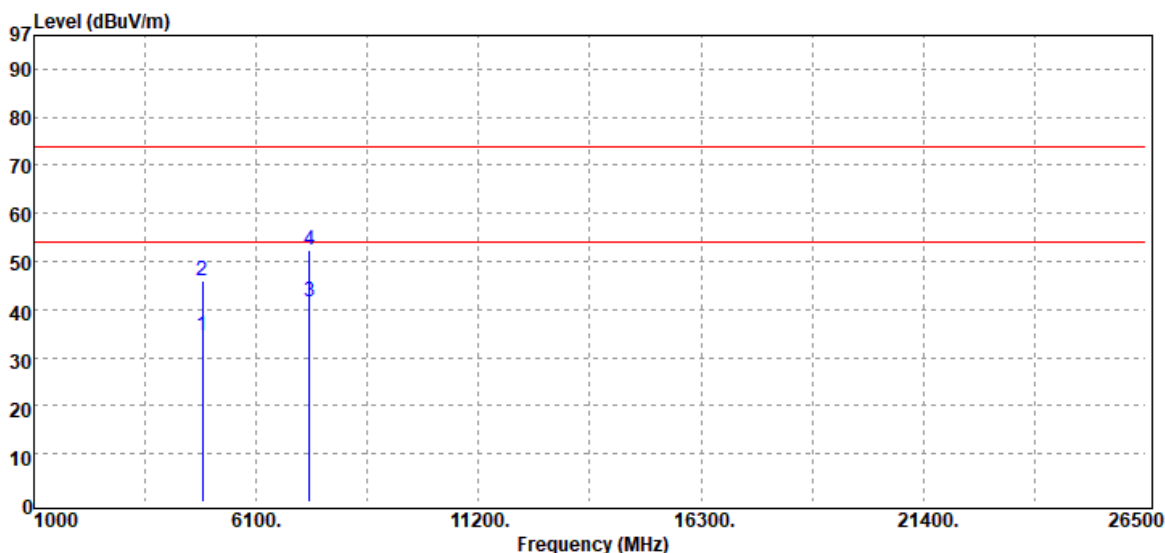
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.00	Average	27.78	6.70	34.48	54.00	-19.52
4874.00	Peak	39.30	6.70	46.00	74.00	-28.00
7311.00	Average	26.75	14.82	41.57	54.00	-12.43
7311.00	Peak	37.63	14.82	52.45	74.00	-21.55

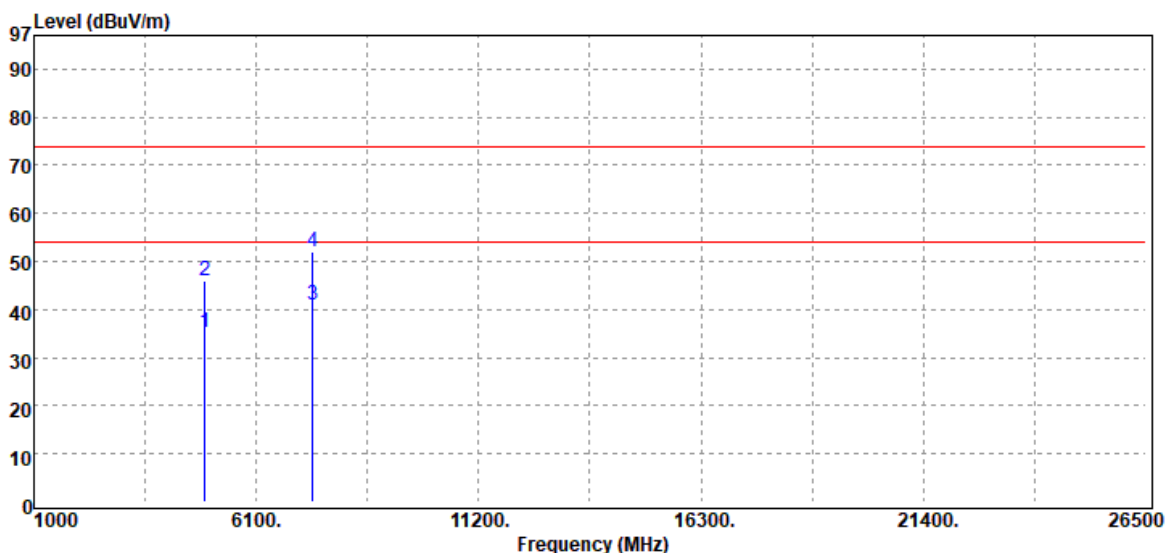
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.79	7.50	35.29	54.00	-18.71
4924.00	Peak	38.59	7.50	46.09	74.00	-27.91
7386.00	Average	26.68	14.20	40.88	54.00	-13.12
7386.00	Peak	37.79	14.20	51.99	74.00	-22.01

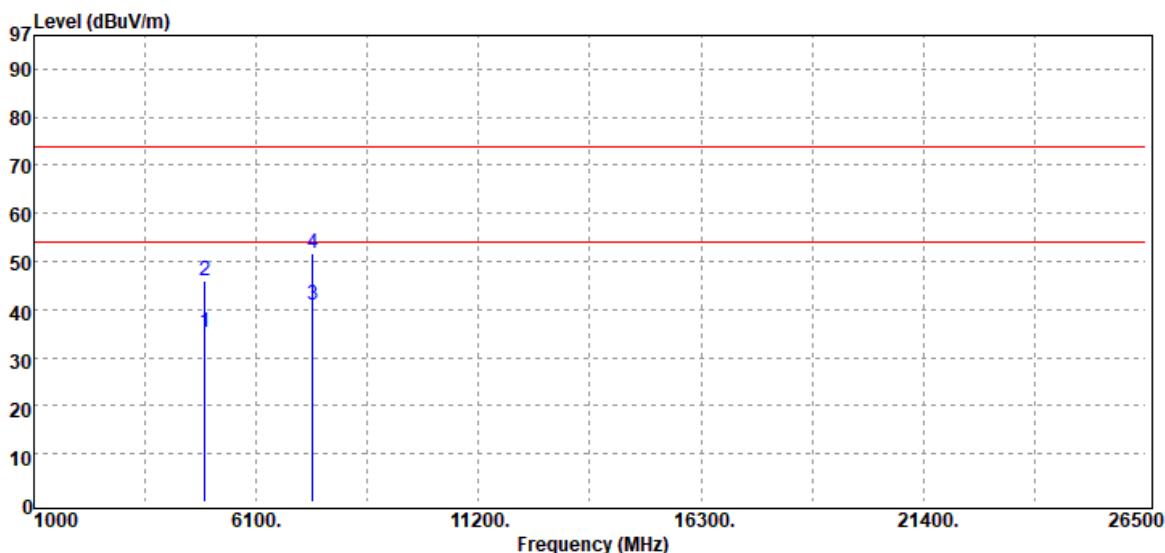
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.00	Average	27.71	7.50	35.21	54.00	-18.79
4924.00	Peak	38.62	7.50	46.12	74.00	-27.88
7386.00	Average	26.71	14.20	40.91	54.00	-13.09
7386.00	Peak	37.64	14.20	51.84	74.00	-22.16

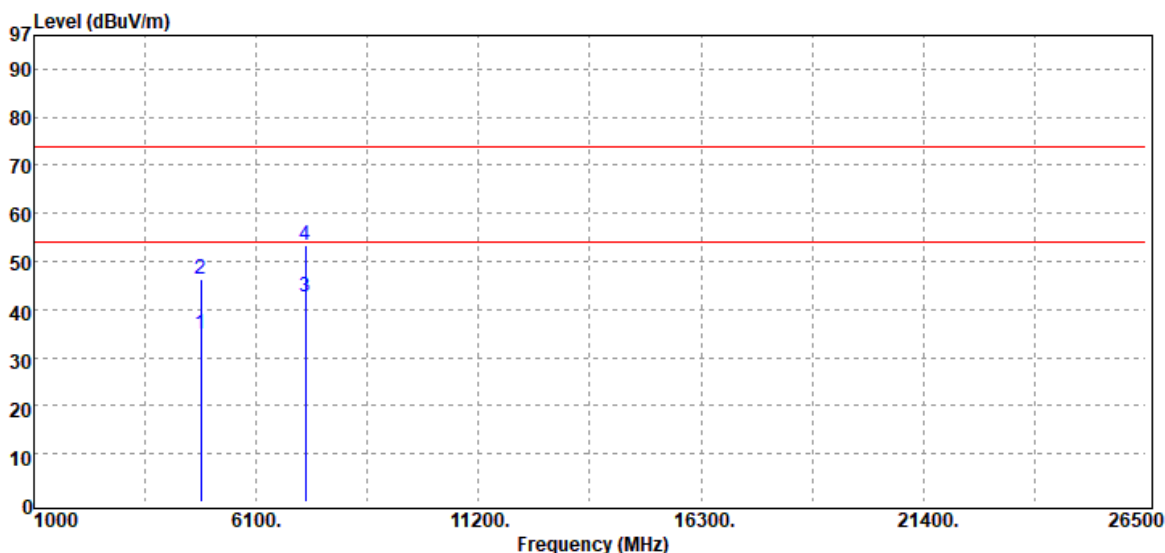
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Report Number :ER/2021/60024
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.82	7.21	35.03	54.00	-18.97
4824.00	Peak	39.00	7.21	46.21	74.00	-27.79
7236.00	Average	27.08	15.43	42.51	54.00	-11.49
7236.00	Peak	38.01	15.43	53.44	74.00	-20.56

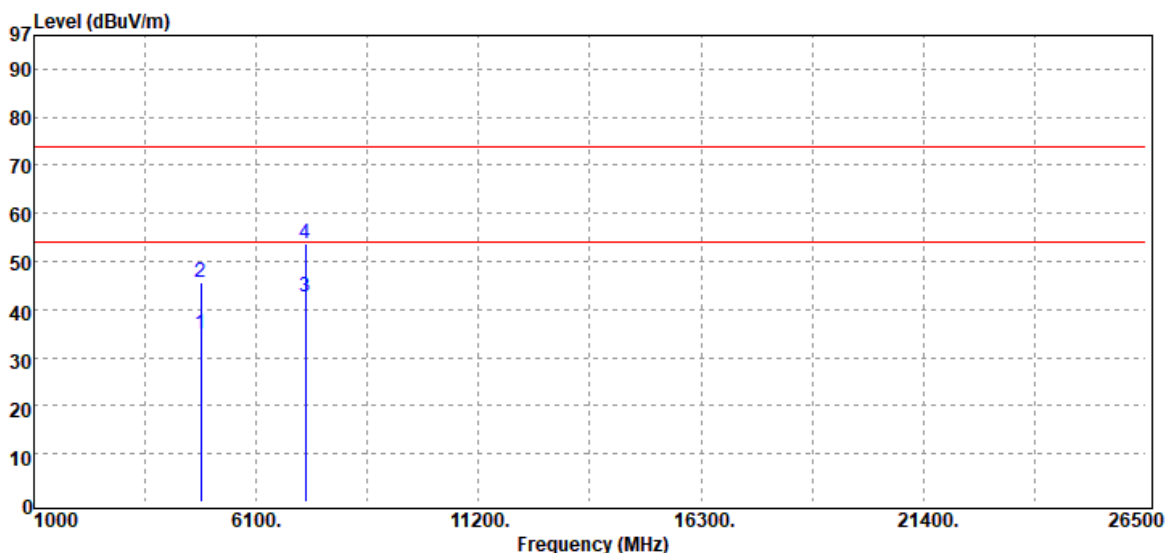
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Report Number :ER/2021/60024
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Tx CH Low
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4824.00	Average	27.80	7.21	35.01	54.00	-18.99
4824.00	Peak	38.58	7.21	45.79	74.00	-28.21
7236.00	Average	27.23	15.43	42.66	54.00	-11.34
7236.00	Peak	38.37	15.43	53.80	74.00	-20.20

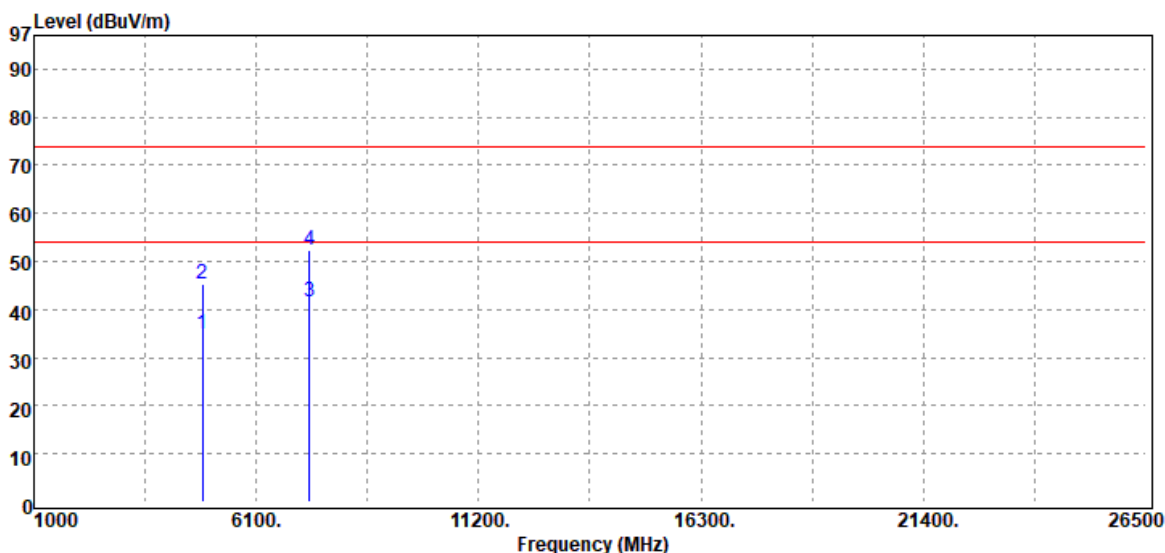
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Report Number :ER/2021/60024
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	28.11	6.70	34.81	54.00	-19.19
4874.00	Peak	38.73	6.70	45.43	74.00	-28.57
7311.00	Average	26.64	14.82	41.46	54.00	-12.54
7311.00	Peak	37.65	14.82	52.47	74.00	-21.53

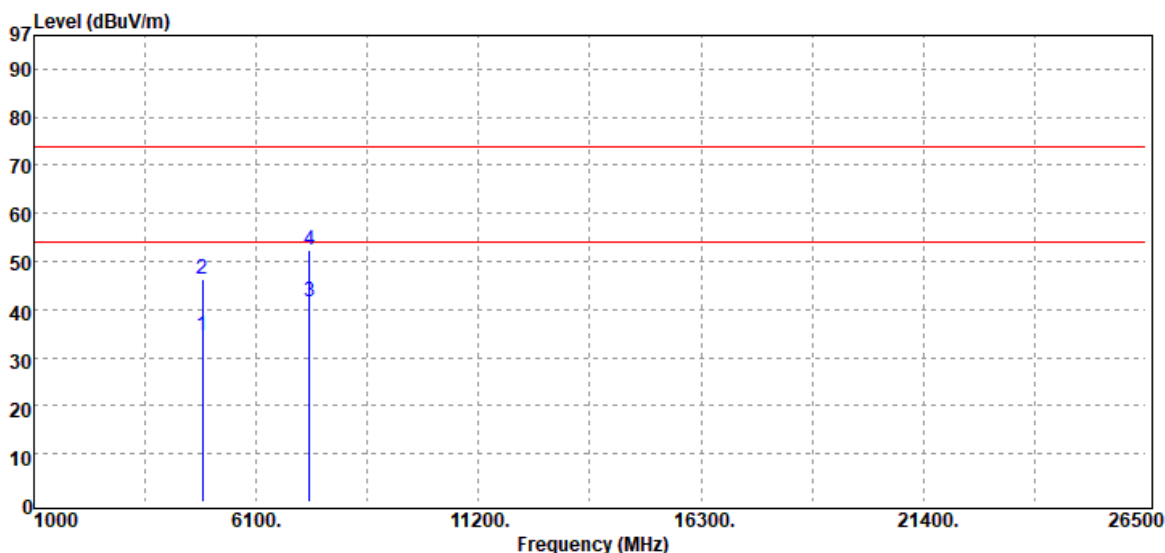
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Report Number :ER/2021/60024
Operation Mode :802.11n20
Test Frequency :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4874.00	Average	27.85	6.70	34.55	54.00	-19.45
4874.00	Peak	39.52	6.70	46.22	74.00	-27.78
7311.00	Average	26.74	14.82	41.56	54.00	-12.44
7311.00	Peak	37.62	14.82	52.44	74.00	-21.56

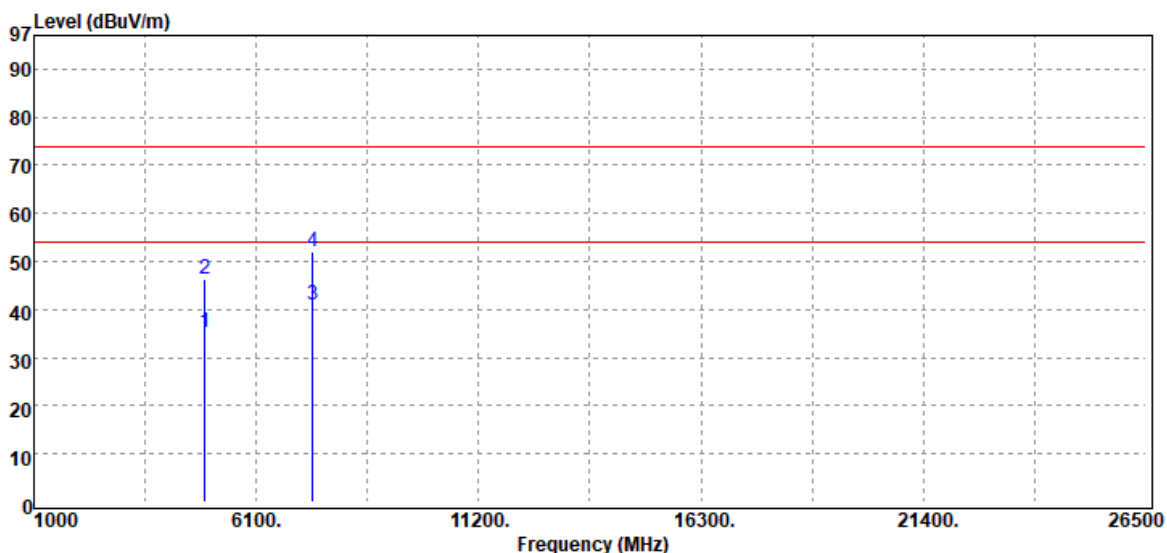
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Report Number :ER/2021/60024
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :VERTICAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.81	7.50	35.31	54.00	-18.69
4924.00	Peak	38.87	7.50	46.37	74.00	-27.63
7386.00	Average	26.68	14.20	40.88	54.00	-13.12
7386.00	Peak	37.76	14.20	51.96	74.00	-22.04

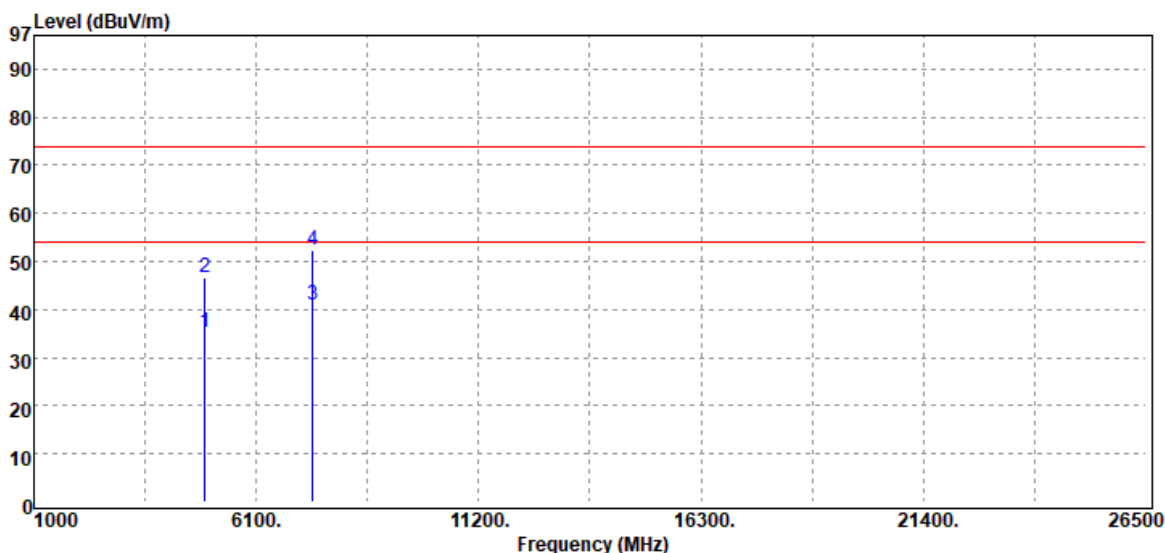
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Report Number :ER/2021/60024
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.00	Average	27.72	7.50	35.22	54.00	-18.78
4924.00	Peak	39.04	7.50	46.54	74.00	-27.46
7386.00	Average	26.64	14.20	40.84	54.00	-13.16
7386.00	Peak	38.03	14.20	52.23	74.00	-21.77

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11.5.4 接收機場強輻射之量測結果(1GHz 以下) (最差模式)

Report Number :ER/2021/60024

Test Site :SAC I Chamber

Operation Mode :802.11g

Test Date :2021-06-12

Test Frequency :2437 MHz

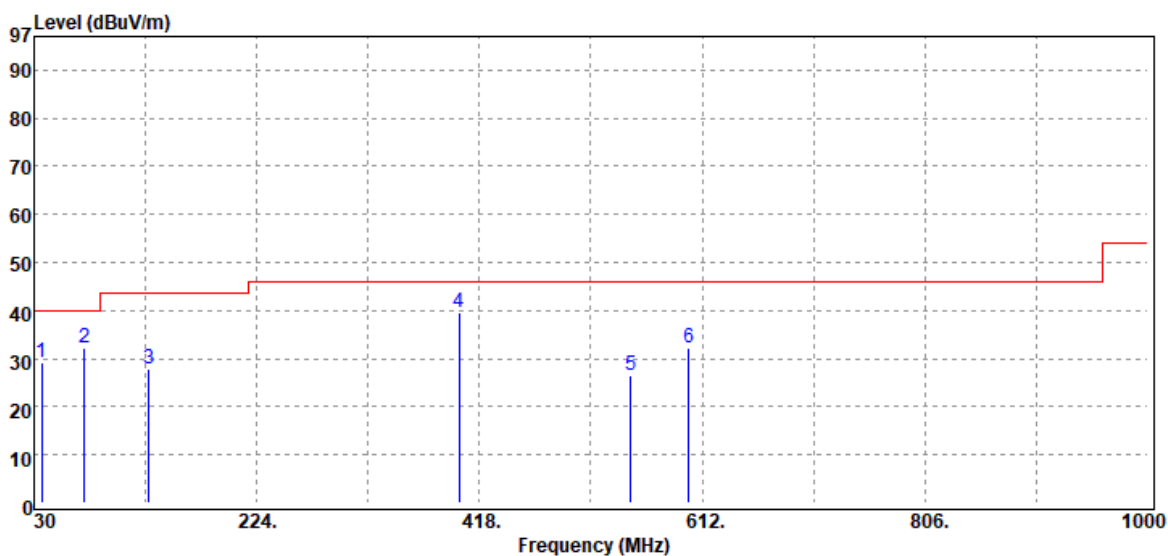
Temp./Humi. :26.5/63

Test Mode :Rx CH Mid

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
36.79	Peak	37.69	-8.40	29.29	40.00	-10.71
73.65	Peak	49.93	-17.59	32.34	40.00	-7.66
129.91	Peak	39.78	-11.80	27.98	43.50	-15.52
400.54	Peak	46.52	-6.89	39.63	46.00	-6.37
549.92	Peak	30.09	-3.67	26.42	46.00	-19.58
600.36	Peak	36.95	-4.86	32.09	46.00	-13.91

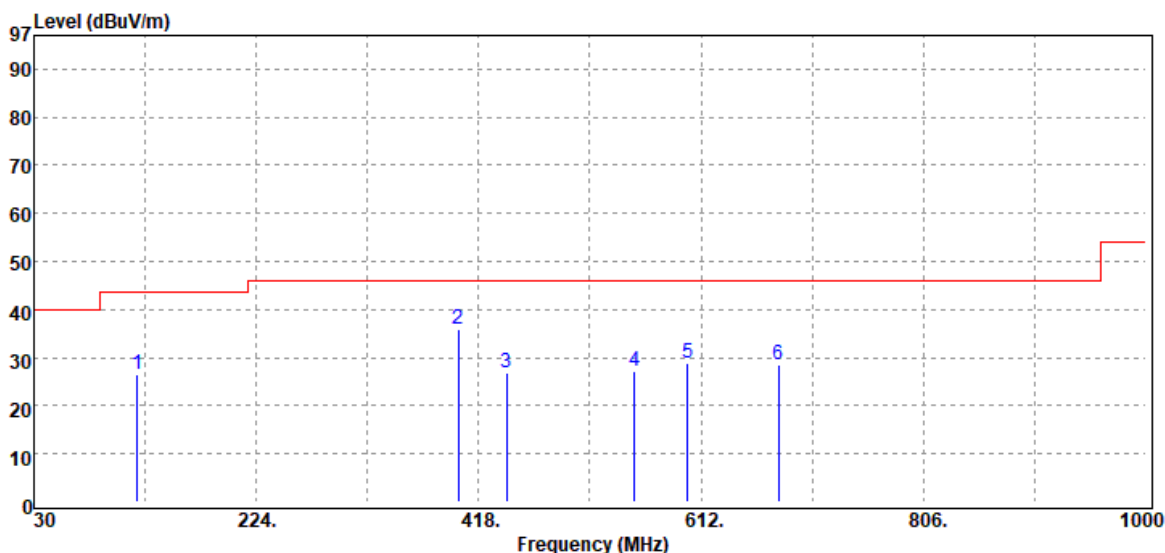
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Rx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
120.21	Peak	38.09	-11.73	26.36	43.50	-17.14
400.54	Peak	42.75	-6.89	35.86	46.00	-10.14
442.25	Peak	33.19	-6.39	26.80	46.00	-19.20
553.80	Peak	31.02	-3.86	27.16	46.00	-18.84
600.36	Peak	33.76	-4.86	28.90	46.00	-17.10
679.90	Peak	31.58	-3.19	28.39	46.00	-17.61

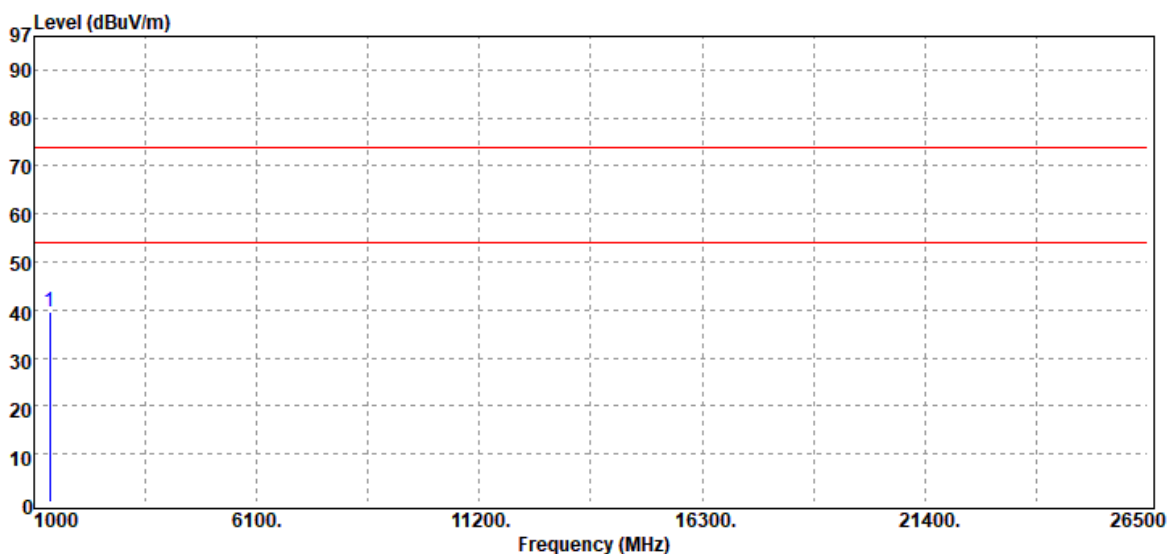
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11.5.5 接收機場強輻射之量測結果(1GHz 以上) (最差模式)

Report Number	:ER/2021/60024	Test Site	:SAC I Chamber
Operation Mode	:802.11g	Test Date	:2021-06-12
Test Frequency	:2437 MHz	Temp./Humi.	:26.5/63
Test Mode	:Rx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
1364.00	Peak	44.09	-4.57	39.52	74.00	-34.48

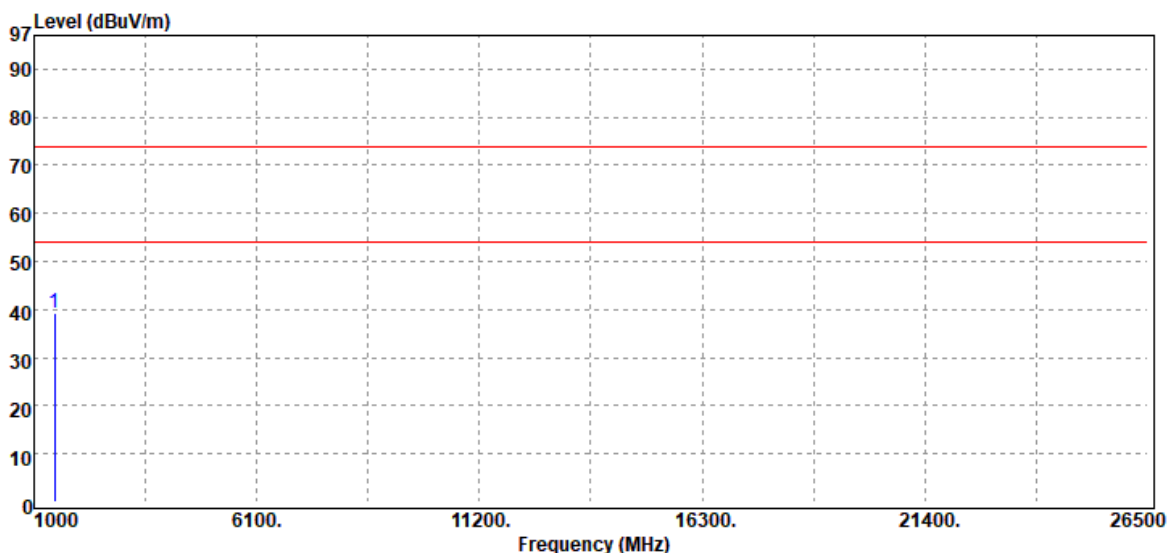
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Report Number :ER/2021/60024
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Rx CH Mid
EUT Pol :H Plane

Test Site :SAC I Chamber
Test Date :2021-06-12
Temp./Humi. :26.5/63
Antenna Pol. :HORIZONTAL
Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
1469.00	Peak	43.68	-4.46	39.22	74.00	-34.78

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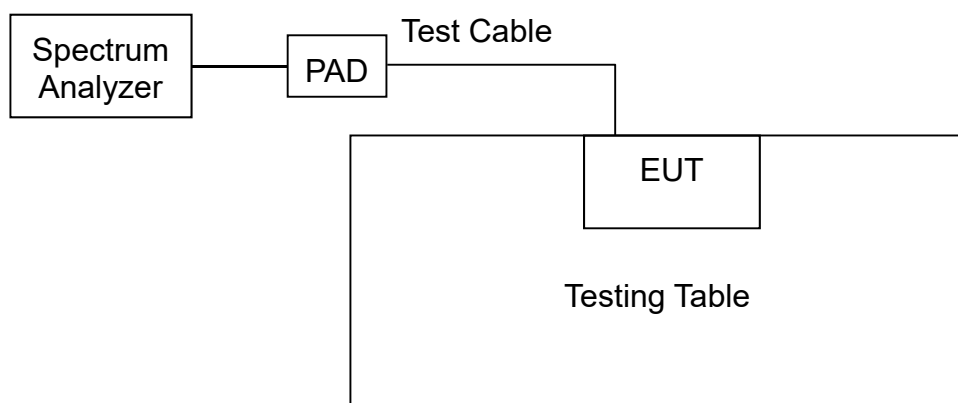
12 發射頻寬之要求

12.1 適用標準

對使用數位調變技術之低功率發射機，依據 NCC 低功率射頻器材技術規範 4.10.1.6(2) (A) 之規定，6dB 之頻寬至少應有 500kHz。

12.2 測試配置

圖 4: 發射頻寬之測試配置



12.3 量測結果

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9064.00	≥ 500	PASS
2437	9051.00	≥ 500	PASS
2462	8567.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15140.00	≥ 500	PASS
2437	15140.00	≥ 500	PASS
2462	15140.00	≥ 500	PASS

802.11_n_HT20 Ch0

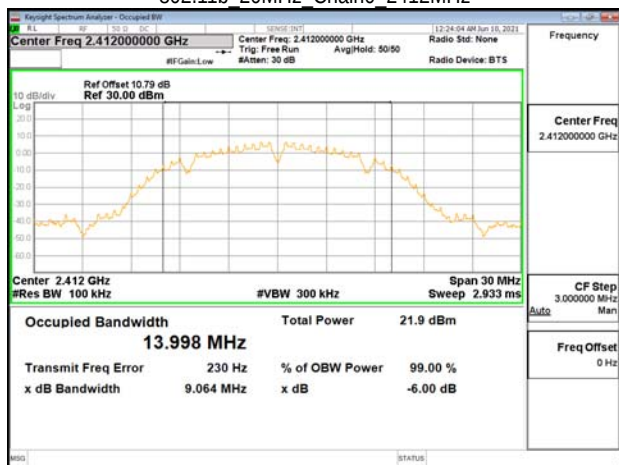
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150.00	≥ 500	PASS
2437	15130.00	≥ 500	PASS
2462	15140.00	≥ 500	PASS

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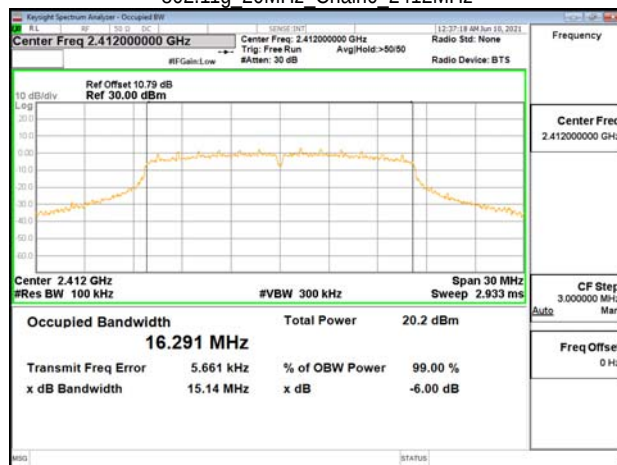
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802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



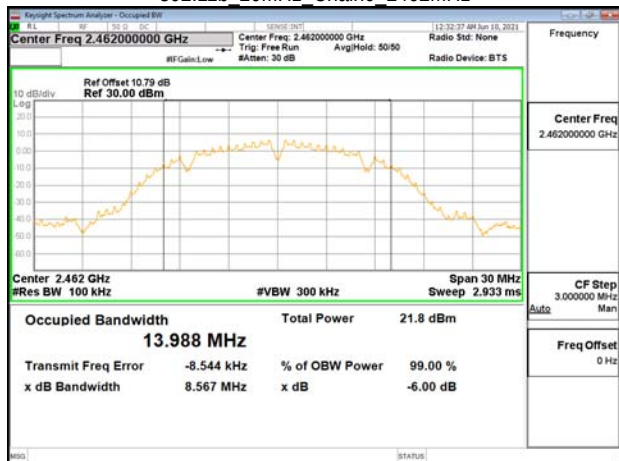
802.11b 20MHz Chain0 2437MHz



802.11g 20MHz Chain0 2437MHz



802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2462MHz

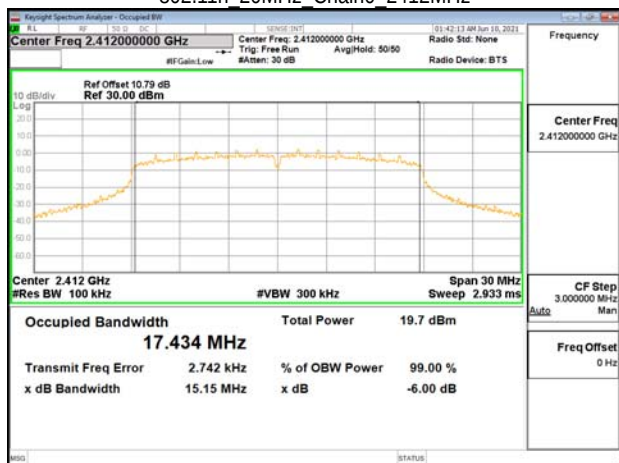


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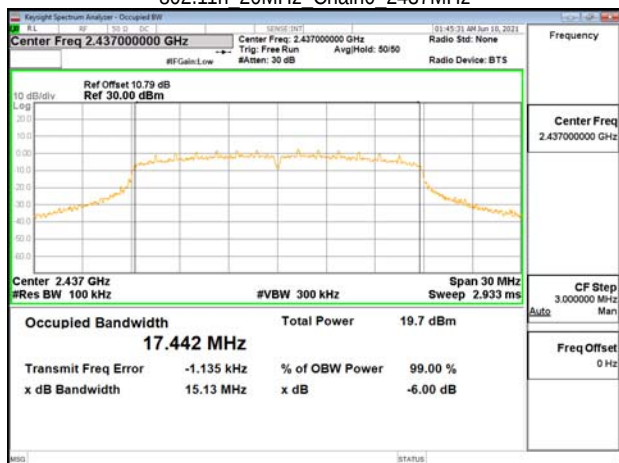
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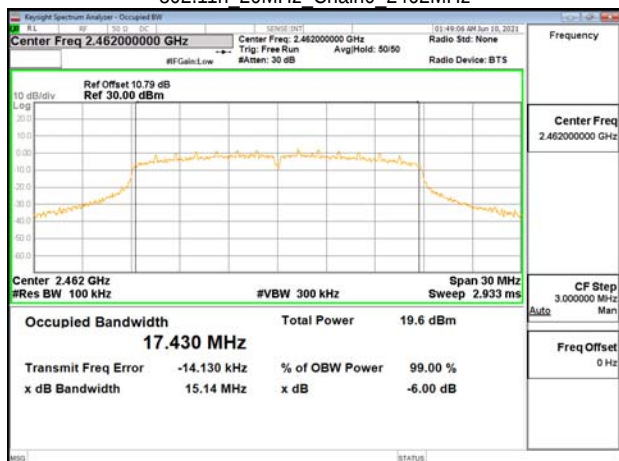
802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz



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13 輸出峰值功率之量測

13.1 適用標準

依據 NCC 低功率射頻器材技術規範 4.10.1.2(1) (A)(C)之規定，操作於 2400-2483.5MHz 與 5725-5850MHz 之所有數位調變技術系統：1 Watt(含)以下。

依據NCC低功率射頻器材技術規範4.10.1.3之規定，用於非固定式點對點操作時，若其發射天線之方向性增益超過6dBi，應依所超過之dB數等量降低峰值輸出功率。如用於固定式點對點操作時，應符合下列情現之一：

依據NCC低功率射頻器材技術規範4.10.1.3 (1)之規定，操作於2400-2483.5MHz 者，僅用於固定式點對點操作，其發射天線之方向性增益超過 6dBi，每超過3dB應降低1dB之峰值輸出功率。

依據NCC低功率射頻器材技術規範4.10.1.3 (2)之規定，操作於5725-5850MHz 者，其發射天線之方向性增益超過 6dBi，無須降低峰值輸出功率。

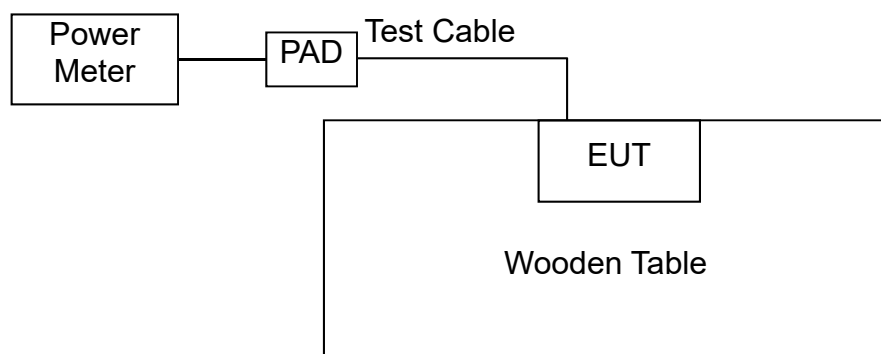
依據NCC低功率射頻器材技術規範4.10.1.3 (3)之規定，用於點對多點操作時，如其發射天線之方向性增益超過 6dBi，應依所超過之dB數等量降低最大傳導輸出功率。

註：固定式點對點操作使用方式，並不包括使用點對多點之系統、全向性之應用以及發射相同資訊之共同安裝的多重發射機。展頻或數位調變之發射器需要專業安裝，該設備操作者或安裝者有責任確認該系統是限用於固定式、點對點之操作，隨機所附之使用手冊必須包含此訊息以告知使用者或安裝者須負之責任。

13.2 載波頻率工作週期之量測

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)。

13.3 測試配置



13.4 量測方式

13.4.1 載波頻率工作週期儀器設定

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

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13.4.2 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. 紀錄最大功率讀值。

13.5 量測結果

13.5.1 載波頻率工作週期

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.57	0.02	0.12	0.01
802.11g	97.15	0.13	0.72	1.00
802.11n_20	96.96	0.13	0.76	1.00

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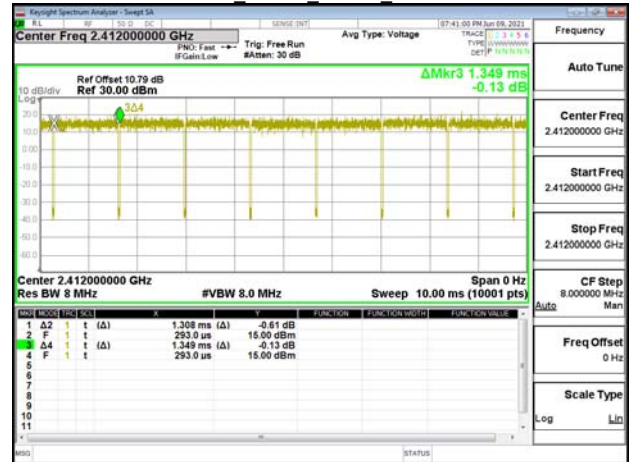
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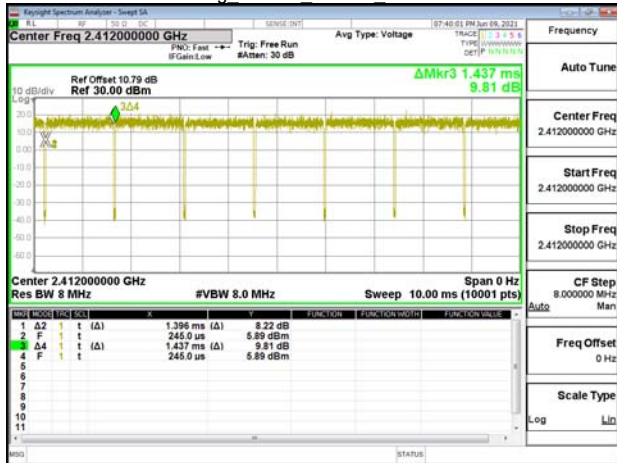
802.11b 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



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13.5.2 輸出功率

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	0	16.37	30.00	PASS
6	2437	1	0	16.48	30.00	PASS
11	2462	1	0	16.46	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	0	13.86	30.00	PASS
6	2437	1	0	13.94	30.00	PASS
11	2462	1	0	13.89	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	0	22.24	30.00	PASS
6	2437	6	0	22.76	30.00	PASS
11	2462	6	0	22.81	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	0	12.93	30.00	PASS
6	2437	6	0	12.98	30.00	PASS
11	2462	6	0	12.87	30.00	PASS

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802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	0	22.05	30.00	PASS
6	2437	MCS0	0	22.51	30.00	PASS
11	2462	MCS0	0	22.46	30.00	PASS
802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	0	12.21	30.00	PASS
6	2437	MCS0	0	12.32	30.00	PASS
11	2462	MCS0	0	12.34	30.00	PASS

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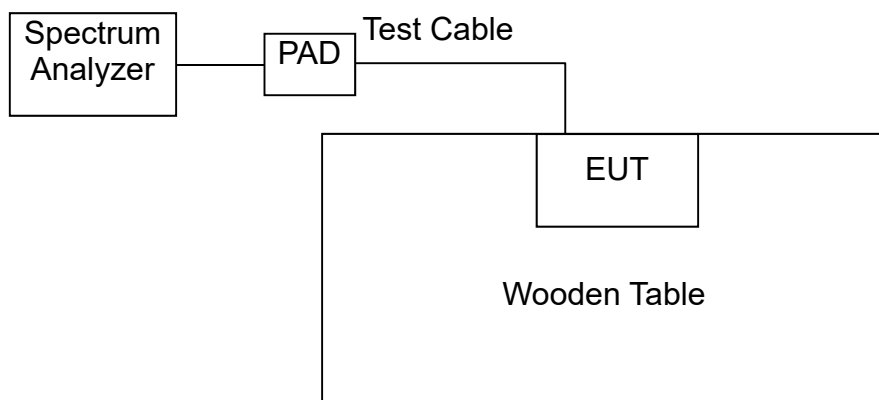
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14 帶外發射之限制

14.1 適用標準

依據 NCC 低功率射頻器材技術規範 4.10.1.5 之規定，操作頻帶範圍外之任意 100kHz 內，發射器所產生的射頻功率相較於使用頻帶範圍中包含最高所需功率之 100kHz 內的射頻功率，須衰減 20 分貝 (dB)，以射頻傳導或輻射方式測量。此外，落於第 3.5 節禁用頻段之輻射發射，應符合第 3.6 節之規定。

14.2 帶外發射測試配置



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14.3 量測結果

Reference Level of Limit 802.11b mode			
Freq. (MHz)	PSD (dBm)	Offset	Reference Level of Limit (dBm)
2412	5.99	10.79	-14.01
2437	5.98	10.79	-14.02
2462	6.48	10.79	-13.52
Reference Level of Limit 802.11g mode			
Freq. (MHz)	PSD (dBm)	Offset	Reference Level of Limit (dBm)
2412	2.27	10.79	-17.73
2437	2.27	10.79	-17.73
2462	2.42	10.79	-17.58
Reference Level of Limit 802.11n20 mode			
Freq. (MHz)	PSD (dBm)	Offset	Reference Level of Limit (dBm)
2412	2.16	10.79	-17.84
2437	2.067	10.79	-17.93
2462	2.09	10.79	-17.91

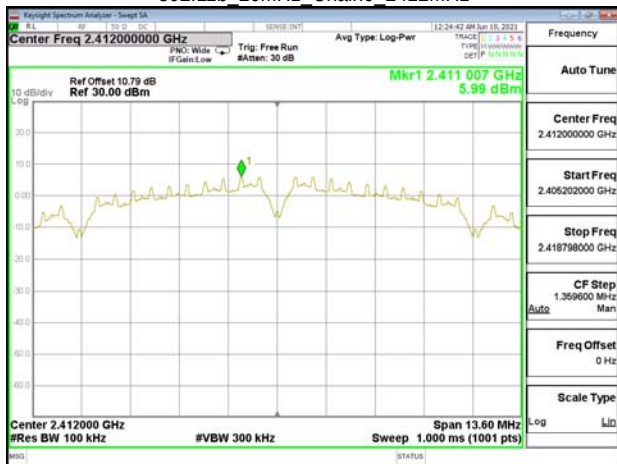
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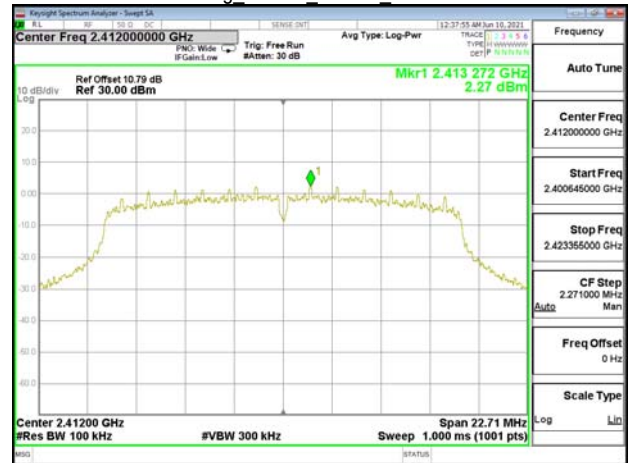
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Reference Level

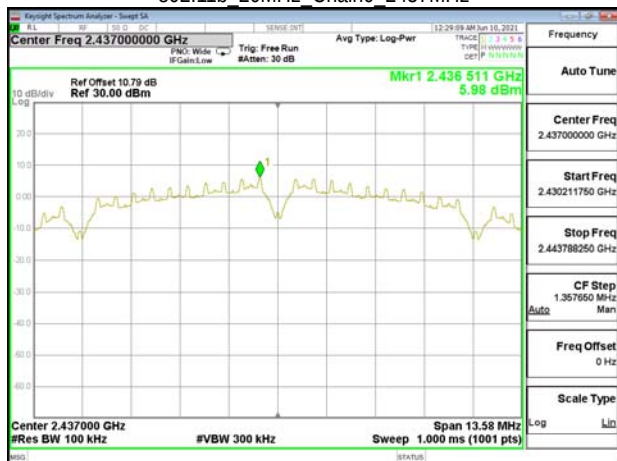
802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



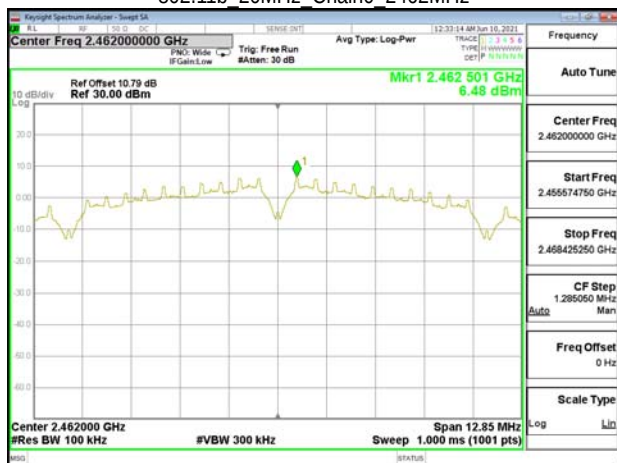
802.11b 20MHz Chain0 2437MHz



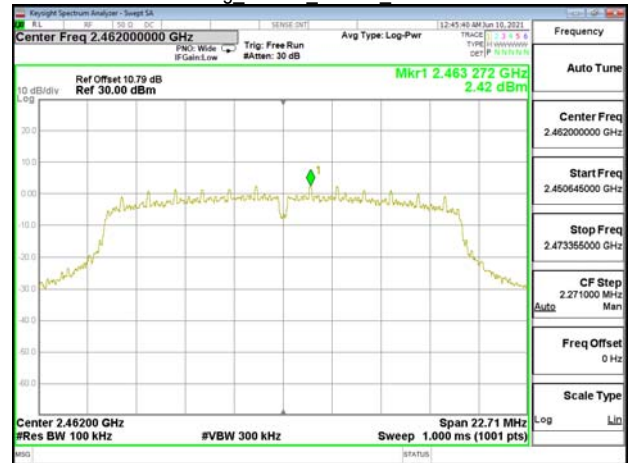
802.11g 20MHz Chain0 2437MHz



802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2462MHz

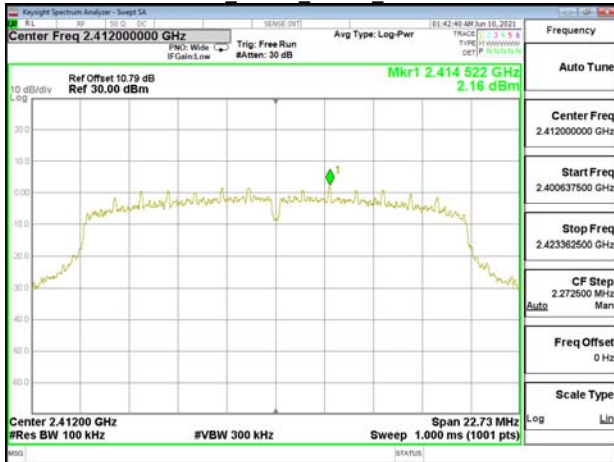


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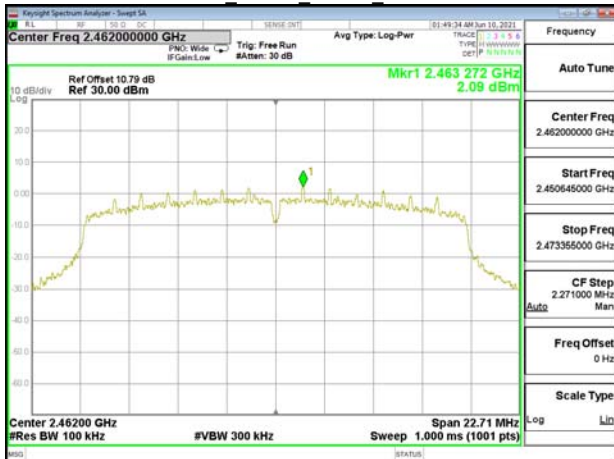
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802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz



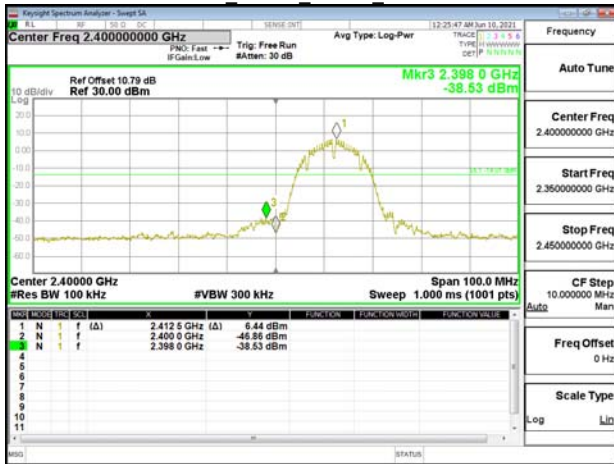
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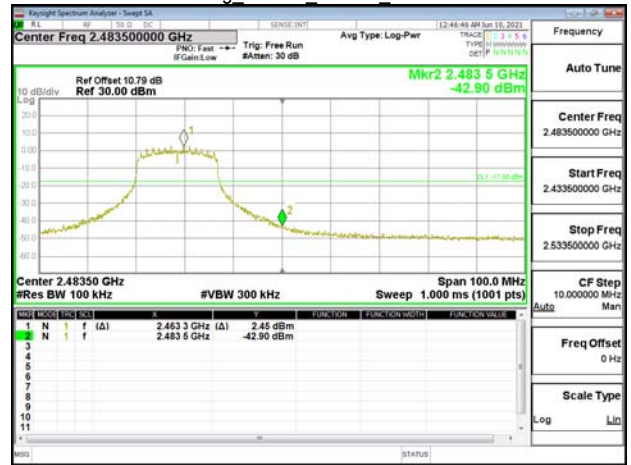
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Band Edge

802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2462MHz



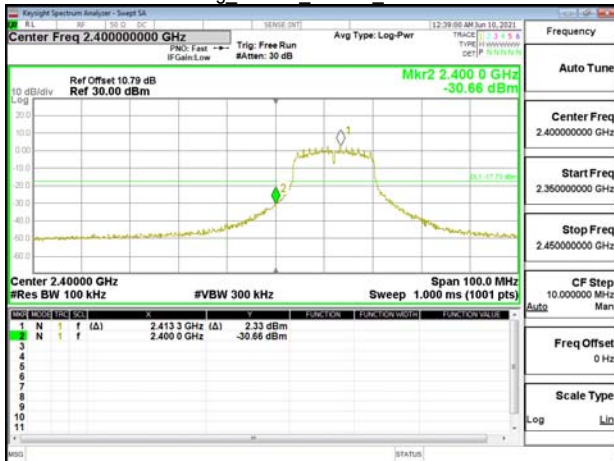
802.11b 20MHz Chain0 2462MHz



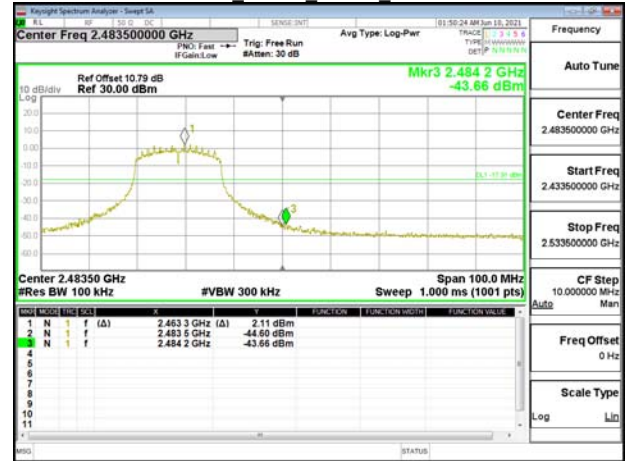
802.11n 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2462MHz



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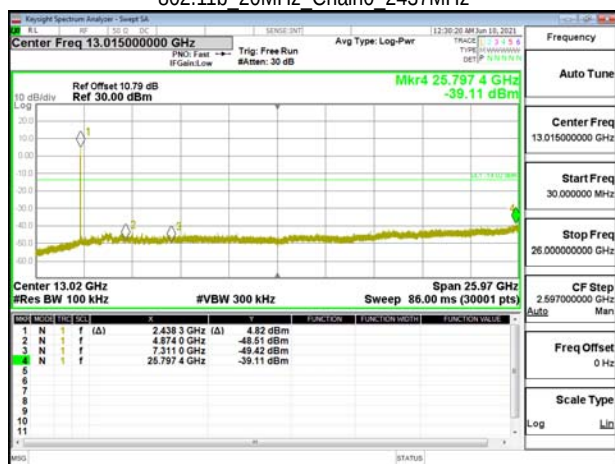
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Emission

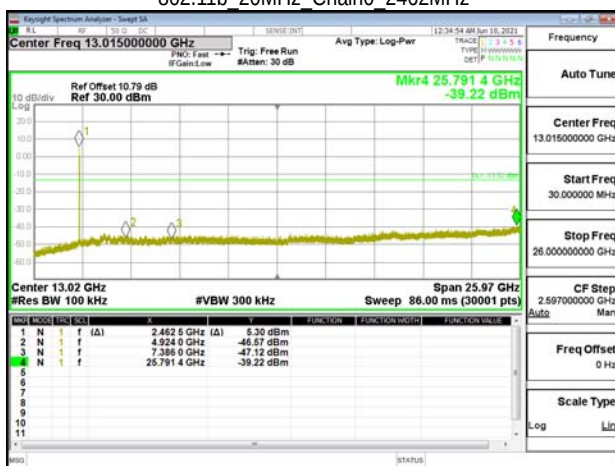
802.11b 20MHz Chain0 2412MHz



802.11b 20MHz Chain0 2437MHz



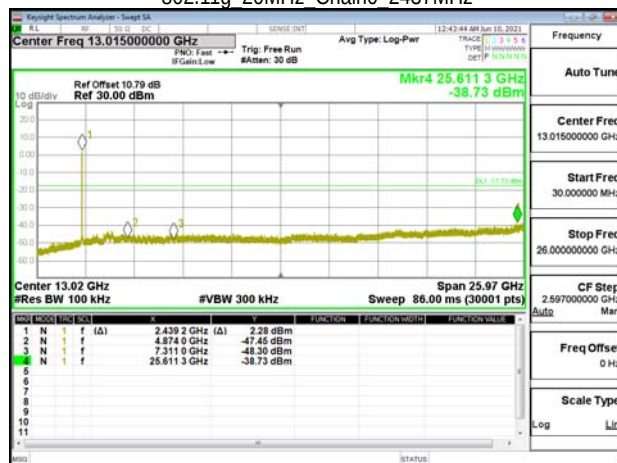
802.11b 20MHz Chain0 2462MHz



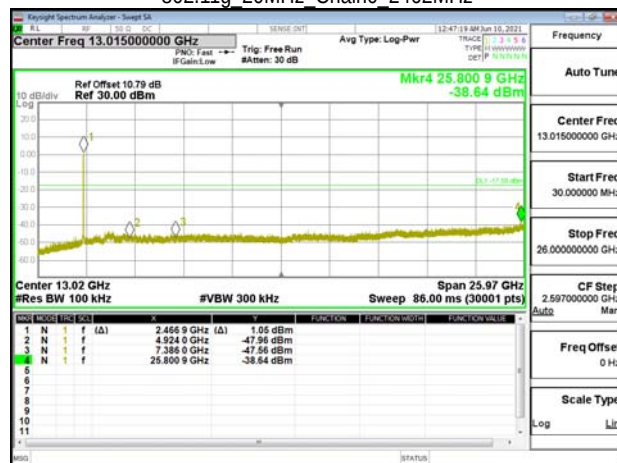
802.11g 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2437MHz



802.11g 20MHz Chain0 2462MHz



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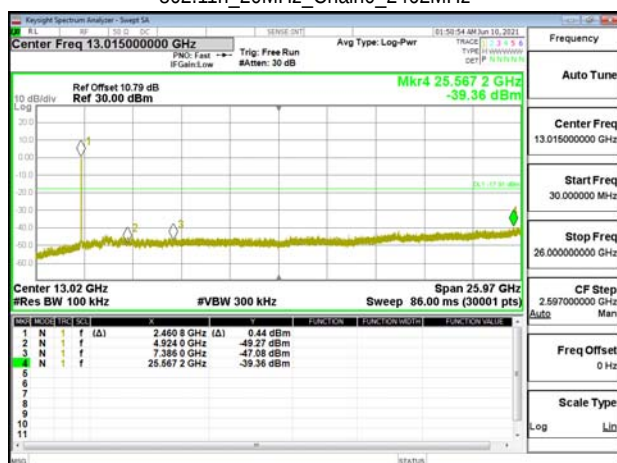
802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz



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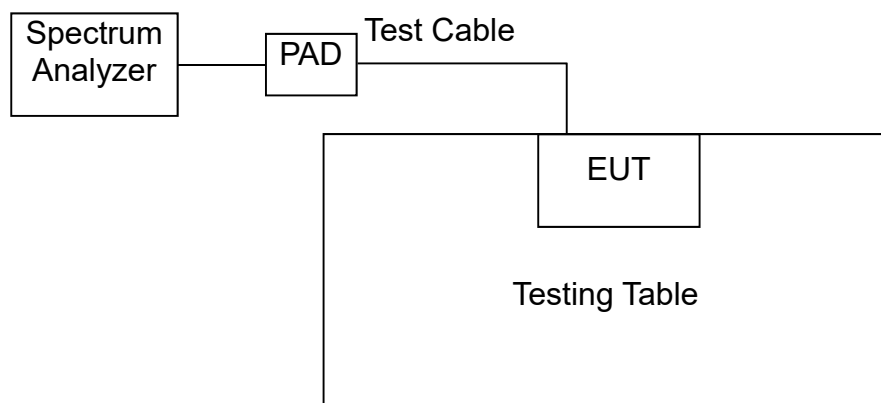
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15 功率密度之量測

15.1 適用標準

依據 NCC 低功率射頻器材技術規範 4.10.1.6(2) (B)規定，對數位調變之展頻系統，在使用頻率範圍之任意 3kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

15.2 功率密度之測試配置



15.3 功率密度量測結果

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.27	-8.27	8.00	PASS
2437	-8.49	-8.49	8.00	PASS
2462	-8.4	-8.40	8.00	PASS
POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.07	-12.07	8.00	PASS
2437	-12.24	-12.24	8.00	PASS
2462	-12.64	-12.64	8.00	PASS
POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.54	-12.54	8.00	PASS
2437	-13.02	-13.02	8.00	PASS
2462	-13.15	-13.15	8.00	PASS

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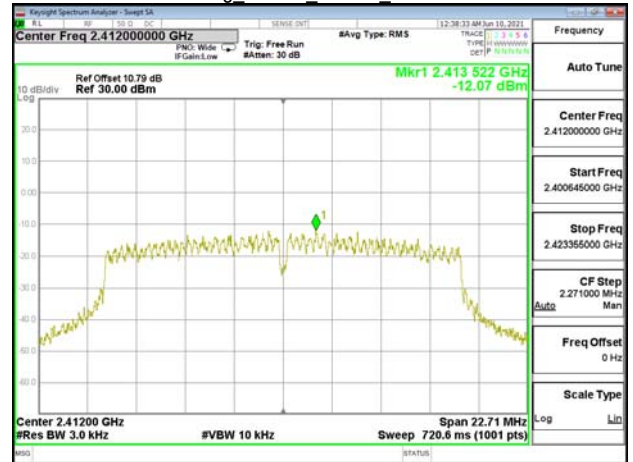
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802.11b 20MHz Chain0 2412MHz



802.11g 20MHz Chain0 2412MHz



802.11b 20MHz Chain0 2437MHz



802.11g 20MHz Chain0 2437MHz



802.11b 20MHz Chain0 2462MHz



802.11g 20MHz Chain0 2462MHz



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802.11n 20MHz Chain0 2412MHz



802.11n 20MHz Chain0 2437MHz



802.11n 20MHz Chain0 2462MHz



~ End of Report ~

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