

NCC

低功率射頻電機型式試驗報告

產品名稱: ACCESS POINT
型號: APINH503
廠牌: aruba / Hewlett Packard Enterprise
商標:  
申請者: 慧與科技股份有限公司
申請者地址: 臺北市南港區經貿二路 66 號 10 樓之 1
測試標準: LP0002 (107 年版)
參考法規: ANSI C63.10-2013
測試結果: 符合
接收日期: 2020.07.09
測試日期: 2020.07.13 ~ 2020.08.10

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本測試報告非經本公司同意不可局部複製使用

修訂紀錄

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1. 一般資訊

申請者	慧興科技股份有限公司
申請者地址	臺北市南港區經貿二路 66 號 10 樓之 1
製造商	Hewlett Packard Enterprise Company
製造商地址	3333 Scott Blvd, Santa Clara, CA 95054, USA
實驗室	台灣曼瑞檢測科技有限公司
實驗室地址	33377 台灣桃園市龜山區復興二路 38 號
實驗室資訊	1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Film. 2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada. 3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Taiwan, EU and TELEC Rules.
實驗室測試環境條件	溫度 (°C) : 20-35 / 濕度 (%RH) : 30-65

2. 產品資訊

2.1. 待測物裝置資料

產品名稱	ACCESS POINT
產品型號	APINH503
無線規格	802.11a/b/g/n/ac/ax
頻率範圍	802.11b/g/n-HT20/ax-HE20: 2412 ~ 2462MHz 802.11n-HT40/ax-HE40: 2422 ~ 2452MHz
通道數量	802.11b/g/n-HT20/ax-HE20: 11 802.11n-HT40/ax-HE40: 7
調變模式	802.11b: DSSS 802.11g/n: OFDM 802.11ax: OFDMA
傳輸速率	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ax: up to 574Mbps
軟件版本	V1.84
測試產品序列號	CNKHKSL02B
操作溫度	0 ~ 40 °C
待測物額定電壓	AC Adapter or POE input
操作環境	Indoor Use

Note:

1. 系列差異說明: 系列型號與主型號差異為廠牌不同,其硬體電路及軟體與主型號相同。該產品亦符合同系列產品技術規格及射頻性能相同。

2.2. 通道清單

802.11b/g/n-HT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

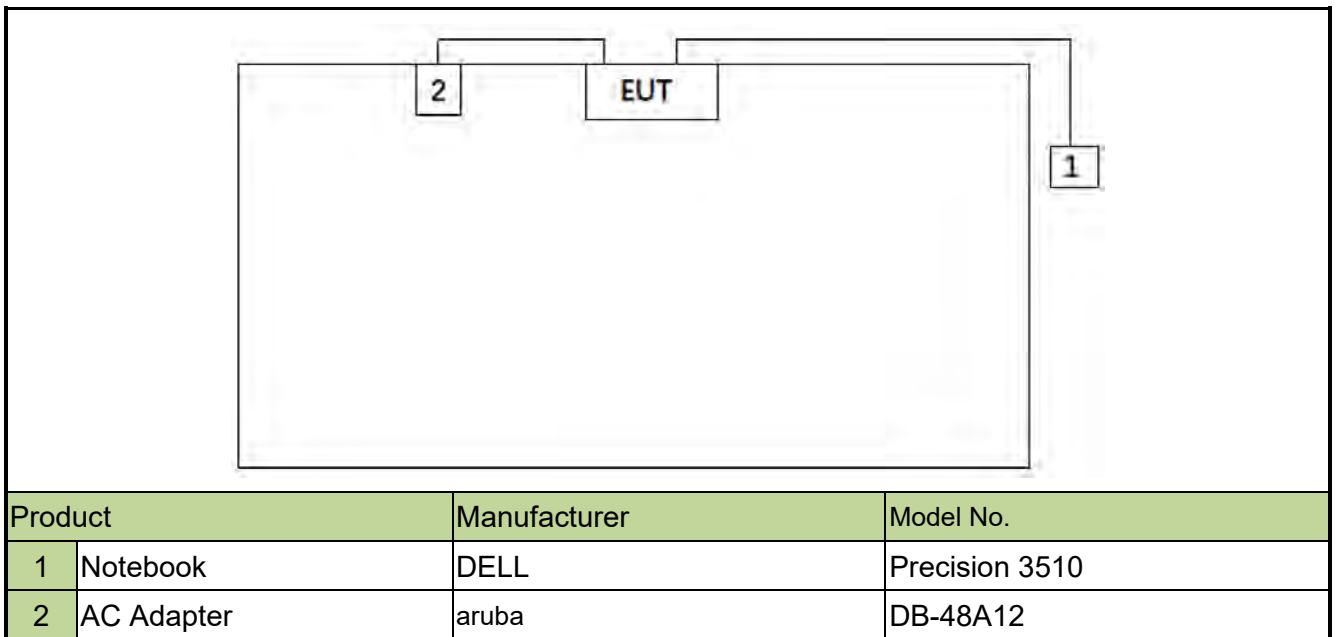
802.11n-HT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

2.3. 測試模式

Mode 1: 發射器 802.11b (1Mbps)
Mode 2: 發射器 802.11g (6Mbps)
Mode 3: 發射器 802.11n-HT20 (MCS0)
Mode 4: 發射器 802.11n-HT40 (MCS0)
Mode 5: 發射器 802.11ax-HE20 (MCS0)
Mode 6: 發射器 802.11ax-HE40 (MCS0)

2.4. 測試系統組合圖



Note 1: The test utility software used during testing was “accessMTool”, and the version was “v3.1.0.5”.

2.5. 待測裝置測試時之典型操作程式

1.	Setup the EUT and simulators as shown on 2.4
2.	Turn on the power of all equipment.
3.	Execute “accessMTool” program.
4.	Configure the test channel and the data rate.
5.	Start to test.

3. 量測不確定度

電源傳導量測-電源線 (Conducted Emission- Power Line)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.53dB
輻射干擾量測 (Radiated Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.92dB (Below 30M)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 4.25dB (30M~1G)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 4.40dB (1G~18G)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 4.45dB (18G~40G)
頻率誤差量測 (Frequency Error)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 78.4\text{Hz}$
傳導功率量測 (Conducted Power)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
傳導干擾量測 (Conducted Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 2.65\text{ dB}$
佔用頻寬量測 (Occupied Bandwidth)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.3%
溫度 / 濕度 (Temp. / Humidity)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C}/ \pm 3\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

4. 測試設備明細

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2021/3/26
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2021/4/24
8-Wire ISN (T8)	R&S	ENY81	MRTTWA00018	1 year	2021/5/25
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2021/5/26
溫度/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00033	1 year	2021/5/28

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2021/4/27
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2020/9/4
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2021/4/24
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2021/4/24
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2021/4/24
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2021/4/24
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2021/3/24
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2021/3/25
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2020/10/2
溫度/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2021/6/16

Conducted Test Equipment - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2021/4/24
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2020/10/2
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2021/7/11
Attenuator	WTI	218FS-20	MRTTWE00026	1 year	2021/05/30
Attenuator	WTI	218FS-10	MRTTWE00027	1 year	2021/05/30
Attenuator	WTI	218FS-06	MRTTWE00028	1 year	2021/05/30
溫度/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00033	1 year	2021/5/28

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	Quietek	V3

5. 測試結果

章節	量測項目	限制值	測試結果	測試數據
2.3	電源傳導	低功率射頻電機技術規範 2.3 節	符合	第 5.1 章節
3.10.1.2	峰值傳導輸出功率	$\leq 30.00\text{dBm}$	符合	第 5.2 章節
3.10.1.3	天線之要求	低功率射頻電機技術規範 3.10.1.3 節	符合	第 5.3 章節
3.10.1.5	帶外發射限制	$\leq 30\text{dBc(Average)}$	符合	第 5.4 章節
2.7	輻射電場強度	低功率射頻電機技術規範 2.8 節	符合	第 5.5 章節
2.7	頻帶邊緣	$\leq 74\text{dBuV/m(Peak)}$ $\leq 54\text{dBuV/m(Average)}$	符合	第 5.6 章節
3.10.1.6(2)(A)	佔用頻寬	$\geq 500\text{kHz}$	符合	第 5.7 章節
3.10.1.6(2)(B)	功率頻譜密度	$\leq 8\text{dBm}$	符合	第 5.8 章節

備註：符合性的判定是基於測試結果符合規範的限制值或客戶的宣告要求，測試結果的判定是不考慮測量不確定度的值。

5.1. 電源端點干擾測試

5.1.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 2.3 節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150kHz 至 30MHz 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值。測量時應經過 50 微亨利(μH)及 50 歐姆(Ω)之電源線阻抗模擬網路(LISN)。頻率重疊處，以較低限值為準。

Frequency 頻率範圍 MHz	傳導限制值(dBuV)	
	準尖峰值	平均值
0.15 - 0.50	66-56 ^(註)	56-46 ^(註)
0.50 - 5.0	56	46
5.0 - 30	60	50

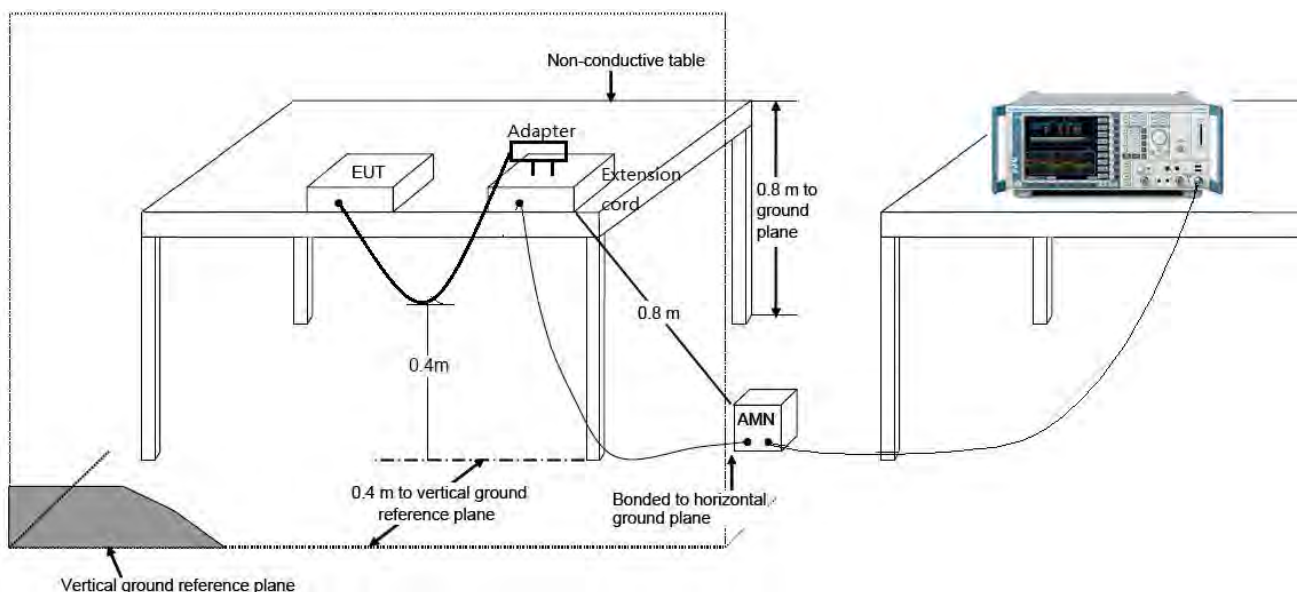
註:隨頻率之對數遞減

5.1.2. 量測方法

待測物置於高 80 公分之非導體桌面（落地型產品置於地上），將待測物之電源線接至電源阻抗網路器(LISN)，同時保持待測物至 LISN 距 80 公分，並將電源線多餘部份以 30 至 40 公分之八字形捆綁於電源線中央並離地 40cm，於在正常工作狀態下，執行待測物之火線(Line)及地線(neutral)各一次量測。電源端點場強之測量範圍由 0.15MHz –30MHz，所量測之讀值皆為準尖峰值(Quasi-Peak Value)及平均值(Average Value)。場強接收機之解析頻寬為 9kHz。

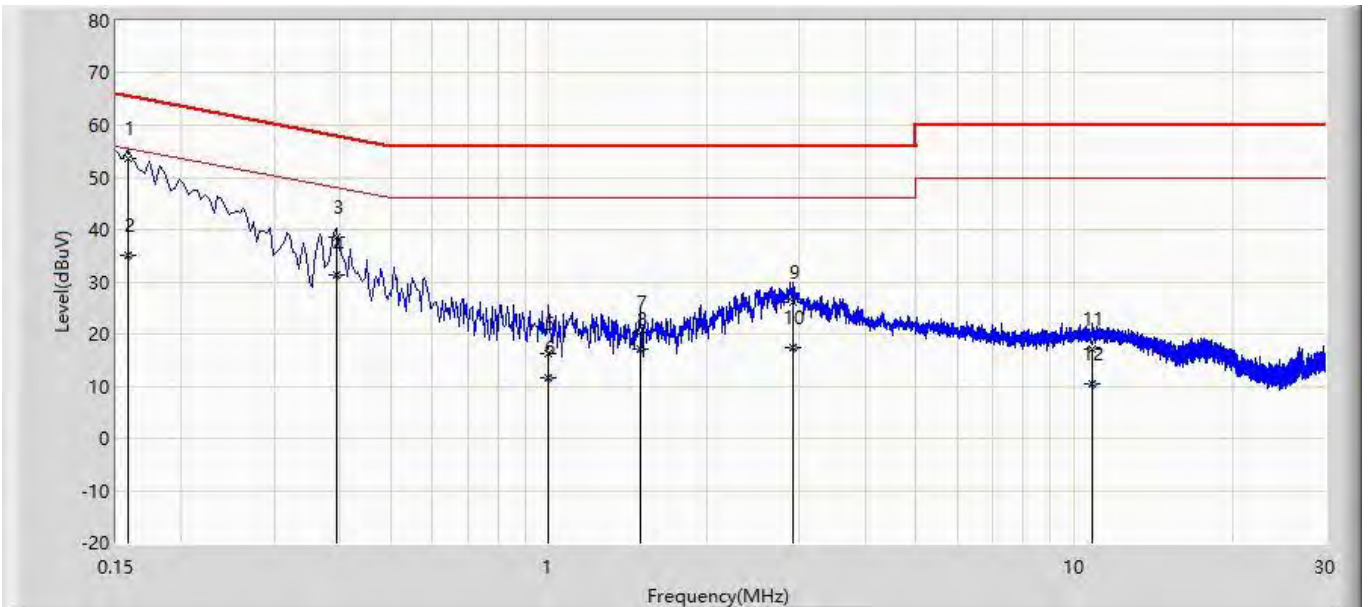
備 註: 經初測驗證過，電源端點干擾測試對測試頻道數並無差異，因此檢附其中一個測試頻道之測試數。

5.1.3. 測試架構圖



5.1.4. 電源端點測試結果

Site: SR2	Time: 2020/08/10 - 11:55
Limit: NCC LP0002_CE_0.15MHz-30MHz	Engineer: Kevin Ker
Probe: CE_ENV216-L1 (Filter ON)	Polarity: Line
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

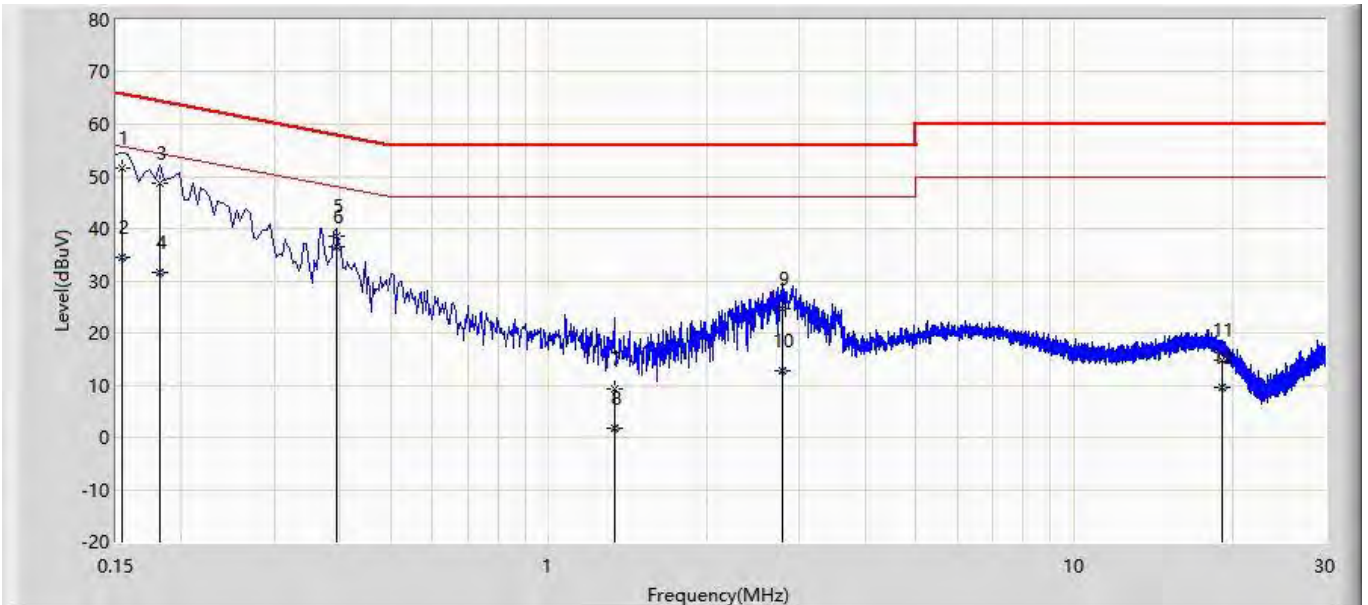


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.158	53.508	43.928	-12.060	65.568	9.580	QP
2			0.158	34.963	25.383	-20.605	55.568	9.580	AV
3			0.394	38.559	28.979	-19.420	57.979	9.580	QP
4			0.394	31.191	21.611	-16.788	47.979	9.580	AV
5			0.994	16.356	6.766	-39.644	56.000	9.590	QP
6			0.994	11.712	2.122	-34.288	46.000	9.590	AV
7			1.494	20.191	10.596	-35.809	56.000	9.595	QP
8			1.494	17.036	7.441	-28.964	46.000	9.595	AV
9			2.910	26.178	16.574	-29.822	56.000	9.604	QP
10			2.910	17.301	7.697	-28.699	46.000	9.604	AV
11			10.814	17.043	7.371	-42.957	60.000	9.672	QP
12			10.814	10.291	0.619	-39.709	50.000	9.672	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2020/08/10 - 11:59
Limit: NCC LP0002_CE_0.15MHz-30MHz	Engineer: Kevin Ker
Probe: CE_ENV216-N (Filter ON)	Polarity: Neutral
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	51.671	42.081	-14.110	65.781	9.590	QP
2			0.154	34.537	24.947	-21.244	55.781	9.590	AV
3			0.182	48.711	39.121	-15.683	64.394	9.590	QP
4			0.182	31.562	21.972	-22.832	54.394	9.590	AV
5			0.394	38.435	28.845	-19.544	57.979	9.590	QP
6		*	0.394	36.622	27.032	-11.357	47.979	9.590	AV
7			1.334	9.342	-0.258	-46.658	56.000	9.600	QP
8			1.334	1.814	-7.786	-44.186	46.000	9.600	AV
9			2.786	24.685	15.077	-31.315	56.000	9.608	QP
10			2.786	12.715	3.107	-33.285	46.000	9.608	AV
11			19.062	14.799	5.037	-45.201	60.000	9.762	QP
12			19.062	9.690	-0.072	-40.310	50.000	9.762	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

5.2. 峰值傳導輸出功率

5.2.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.2(1)(C)節，操作於 2400-2483.5 MHz 之數位調變的發射器材：1 瓦(W)(含)以下。

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.3 節，天線增益限制如下：

(1) 操作於 2400 MHz~2483.5 MHz 頻段：

(A) 進行固定式點對點操作時，其發射天線之方向性增益超過 6 dBi，每超過 3 dBi，最大傳導輸出功率限制值應降低 1 dB。

(B) 除第 (A) 節外，如其發射天線之方向性增益超過 6 dBi，應依所超過之 dB 數等量降低最大傳導輸出功率。

(C) 天線以多向波束發射方式(含同時發射或循序發射)將訊號導向多個接收機或接收機群組時，應符合下列規定：

(a) 非同時發射多向波束者，所有載波或頻道傳輸至所有天線陣列或陣列群之總和傳導輸出功率應符合 3.10.1.2 之功率限制值。如天線/天線陣列群之方向性增益超過 6 dBi，每超過 3 dBi，總和傳導輸出功率限制值應降低 1 dB。方向性增益值應計算如下：

(i) 方向性增益值 = $10\log(\text{天線陣列之單元數目}) + \text{各單元中最高之方向性增益值}$ 。

(ii) 天線陣列間之遮蔽效應或波束干涉損失能充分佐證時，方向性增益得低於(i)計算數值。

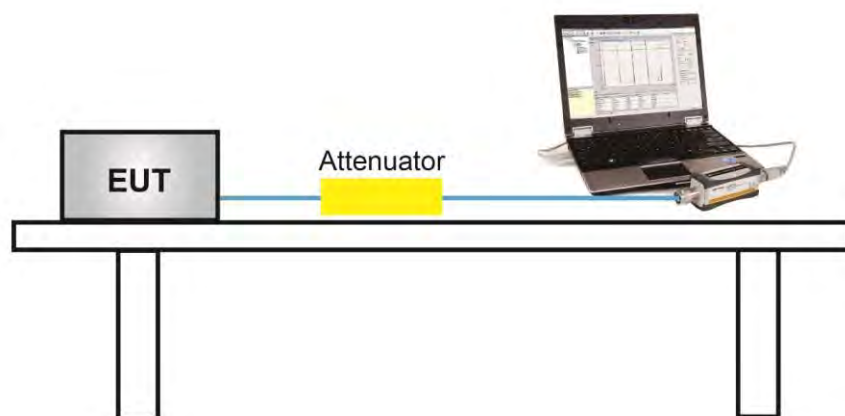
同時發射多向波束於相同或不同頻道者，其每一波束功率應符合(a)之功率限制值。如發射波束有重疊現象，功率應降低，以確保總和傳導輸出功率符合(a)之限制值。同時發射的所有波束總和傳導輸出功率不大於(a) 總和傳導輸出功率限制值加 8 dB。方向性增益值計算同(a)。

(c) 發射機之天線具備單向波束功能者，應符合(1)(A)及(3)後段之規定。

5.2.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端，設定頻譜分析儀之解析度頻寬大於 6 dB 發射頻寬或使用峰值功率表。

5.2.3. 測試架構圖



5.2.4. 峰值傳導輸出功率測試結果

Power output test was verified over all data rates of each mode shown as below table, and then choose the maximum power output (gray marker) for final test of each channel.

For Ant 0 / Ant 0 + 1 port:

Test Mode	Bandwidth (MHz)	Channel No.	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11b	20	06	2437	1Mbps	21.23
				5.5Mbps	21.15
				11Mbps	21.04
802.11g	20	06	2437	6Mbps	20.89
				24Mbps	20.81
				54Mbps	20.74
802.11n	20	06	2437	MCS0	21.47
				MCS3	21.35
				MCS7	21.26
802.11n	40	06	2437	MCS0	18.55
				MCS3	18.46
				MCS7	18.40
802.11ax-HE	20	06	2437	MCS0	21.37
				MCS5	21.30
				MCS11	21.20
802.11ax-HE	40	06	2437	MCS0	17.84
				MCS5	17.74
				MCS11	17.69

待測物名稱	ACCESS POINT	溫度/濕度	25°C/54%
測試場地	SR2	測試日期	2020/07/20
測試項目	Output Power	測試工程師	Eric Lin

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
11b	1Mbps	01	2412	21.16	21.30	24.24	≤ 30.00	Pass
11b	1Mbps	06	2437	21.23	21.45	24.35	≤ 30.00	Pass
11b	1Mbps	11	2462	21.15	21.42	24.30	≤ 30.00	Pass
11g	6Mbps	01	2412	17.06	17.55	20.32	≤ 30.00	Pass
11g	6Mbps	06	2437	20.89	21.28	24.10	≤ 30.00	Pass
11g	6Mbps	11	2462	18.98	19.09	22.05	≤ 30.00	Pass
11n-HT20	MCS0	01	2412	18.04	17.82	20.94	≤ 30.00	Pass
11n-HT20	MCS0	06	2437	21.47	20.79	24.15	≤ 30.00	Pass
11n-HT20	MCS0	11	2462	19.33	18.56	21.97	≤ 30.00	Pass
11n-HT40	MCS0	03	2422	18.27	17.77	21.04	≤ 30.00	Pass
11n-HT40	MCS0	06	2437	18.55	18.70	21.64	≤ 30.00	Pass
11n-HT40	MCS0	09	2452	17.12	17.18	20.16	≤ 30.00	Pass
11ax-HE20	MCS0	01	2412	17.31	17.67	20.50	≤ 30.00	Pass
11ax-HE20	MCS0	06	2437	21.37	21.06	24.23	≤ 30.00	Pass
11ax-HE20	MCS0	11	2462	17.09	17.76	20.45	≤ 30.00	Pass
11ax-HE40	MCS0	03	2422	17.92	17.70	20.82	≤ 30.00	Pass
11ax-HE40	MCS0	06	2437	17.84	18.00	20.93	≤ 30.00	Pass
11ax-HE40	MCS0	09	2452	17.38	17.87	20.64	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$ (dBm).

5.3. 天線之要求

5.3.1. 適用標準

低功率射頻電機之發射機或收發信機所使用之天線，應為全固定、半固定式或以獨特之耦合(unique coupling)方式連接機體。製造者可設計供使用者因損壞而替換之天線，但不得設計或使用原認證以外之天線或可供引接各類電纜之標準天線插座或電氣連接頭，如：BNC、F type、N type、M type、UG type、RCA、SMA、SMB...等及其他各類工業或通訊標準接頭。

5.3.2. 天線樣式

Antenna Type (Brand: Aruba M/N: AP503H P2)	Frequency Band (GHz)	Max Peak Gain (dBi)	BF Directional Gain (dBi)	CDD Directional Gain (dBi)	
				For Power	For PSD
Wi-Fi Internal Antenna (2.4GHz 2*2 MIMO, 5GHz 2*2 MIMO)					
PIFA	2.4	1.73	4.71	1.73	4.71
	5	5.04	8.05	5.04	8.05
Bluetooth / ZigBee Internal Antenna					
Monopole	2.4	2.49			

Note:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.
For CDD transmissions, directional gain is calculated as follows, $N_{ANT} = 2$, $N_{SS} = 1$.
If all antennas have the same gain, G_{ANT} , Directional gain = $G_{ANT} + \text{Array Gain}$, where Array Gain is as follows.
 - For power spectral density (PSD) measurements on all devices,
Array Gain = $10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01$;
 - For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB for $N_{ANT} \leq 4$;
- The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax, not include 802.11a/b/g. Directional gain = $G_{ANT} + \text{BF Gain}$, BF Gain was declared by the applicant.
- Antenna type and antenna gain are provided by the manufacturer.

5.4. 輻射干擾測試

5.4.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.5 節，使用頻帶範圍外之任意 100 千赫 (kHz)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 100 千赫 (kHz)內的射頻功率，衰減值限制如下：

(1)輸出功率以低功率射頻電機技術規範附件二之峰值輸出功率方式量測者，至少須衰減 20 dB，可使用射頻傳導或輻射方式測量。

(2)輸出功率以低功率射頻電機技術規範 3.10.1(2)(2.3)之最大傳導輸出功率量測方式者，至少須衰減 30 dB。

此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

依據國家通訊傳播委員會低功率射頻電機技術規範之第 2.8 節，低功率射頻電機，除本規範各章節另有放寬規定者外，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。

頻 率(兆赫)	電場強度(微伏/公尺)	測距(公尺)
0.009 - 0.490(含)	2,400/頻率(千赫)	300
0.490 (不含) – 1.705 (含)	24,000/頻率(千赫)	30
1.705(不含) – 30 (不含)	30	30
30 (含) – 88 (含)	100	3
88 (不含) - 216 (含)	150	3
216 (不含) - 960 (含)	200	3
960 (不含)以上	500	3

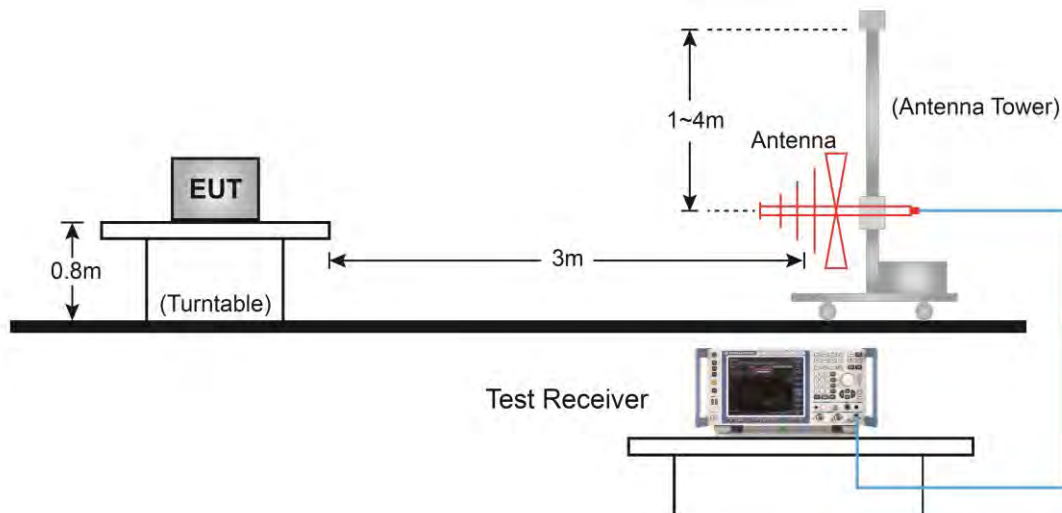
上表規定之電場強度，頻率在 9-90kHz 千赫(kHz)、110-490 千赫(kHz)以及 1000 兆赫(MHz)以上之發射，其量測以平均值檢波器為基準，且須符合第 5.15.2 節之規定；其他頻率之發射，應以 CISPR 準峰值(quasi-peak) 檢波器測量；非以上表所指定之距離測量時須符合第 5.5 節之規定，而輻射發射之量測頻率範圍須符合第 5.14 節之規定。

5.4.2. 量測方法

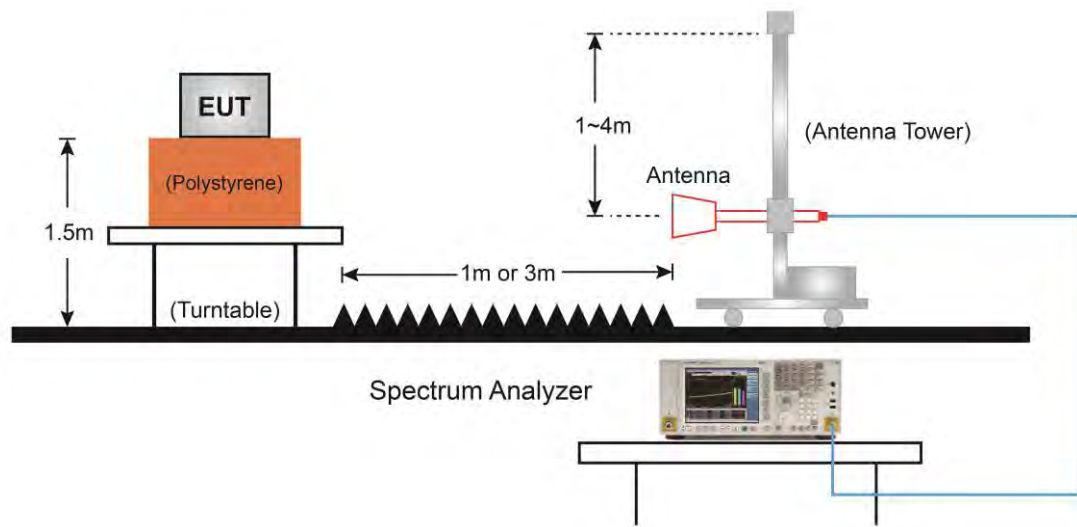
低頻待測物置於高 80 公分之非導體桌面（落地型產品置於地上），高頻待測物置於高 150 公分之非導體桌面，受測物與配件設備之電源線無須束綁，桌面上受測設備的所有電源線由桌子的後緣垂下沿旋轉桌表面接至交流插座。落地型設備的交流電源線可以方便的型態走線。桌面可 360 度旋轉，接收天線置於距待測物 3m 距離，高度可在 1 至 4 公尺間變動，以量測待測物之最大輻射電場強度。接收天線並應於水準及垂直極化方向各量測一次。

5.4.3. 測試架構圖

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.4.4. 輻射干擾測試結果

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11b	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4000.5	38.5	-2.8	35.7	74.0	-38.3	Peak	Horizontal
	4825.0	36.8	-0.1	36.7	74.0	-37.3	Peak	Horizontal
*	6610.0	35.8	4.9	40.7	74.0	-33.3	Peak	Horizontal
*	8658.5	32.4	9.6	42.0	74.0	-32.0	Peak	Horizontal
	4102.5	37.4	-2.4	35.0	74.0	-39.0	Peak	Vertical
	5054.5	36.0	0.6	36.6	74.0	-37.4	Peak	Vertical
*	6168.0	35.7	2.8	38.5	74.0	-35.5	Peak	Vertical
*	8624.5	33.1	9.3	42.4	74.0	-31.6	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11b	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4017.5	38.5	-2.6	35.9	74.0	-38.1	Peak	Horizontal
	4876.0	37.3	-0.4	36.9	74.0	-37.1	Peak	Horizontal
*	6193.5	35.8	2.8	38.6	74.0	-35.4	Peak	Horizontal
*	8607.5	33.6	9.3	42.9	74.0	-31.1	Peak	Horizontal
	4026.0	38.0	-2.5	35.5	74.0	-38.5	Peak	Vertical
	4859.0	36.1	-0.4	35.7	74.0	-38.3	Peak	Vertical
*	6091.5	35.4	2.8	38.2	74.0	-35.8	Peak	Vertical
*	8862.5	31.0	9.9	40.9	74.0	-33.1	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11b	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4034.5	38.3	-2.5	35.8	74.0	-38.2	Peak	Horizontal
	4791.0	36.0	0.2	36.2	74.0	-37.8	Peak	Horizontal
*	6253.0	35.5	3.2	38.7	74.0	-35.3	Peak	Horizontal
*	8820.0	33.3	9.8	43.1	74.0	-30.9	Peak	Horizontal
	3958.0	38.6	-3.2	35.4	74.0	-38.6	Peak	Vertical
	4646.5	36.7	-0.2	36.5	74.0	-37.5	Peak	Vertical
*	6457.0	35.7	4.2	39.9	74.0	-34.1	Peak	Vertical
*	8607.5	34.1	9.3	43.4	74.0	-30.6	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11g	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4119.5	36.4	-2.2	34.2	74.0	-39.8	Peak	Horizontal
	5088.5	35.1	0.1	35.2	74.0	-38.8	Peak	Horizontal
*	6057.5	33.2	2.4	35.6	74.0	-38.4	Peak	Horizontal
*	10120.5	31.0	11.2	42.2	74.0	-31.8	Peak	Horizontal
	4179.0	35.9	-2.1	33.8	74.0	-40.2	Peak	Vertical
	4961.0	36.0	-0.2	35.8	74.0	-38.2	Peak	Vertical
*	6576.0	32.4	5.0	37.4	74.0	-36.6	Peak	Vertical
*	10086.5	32.5	11.1	43.6	74.0	-30.4	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11g	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4026.0	37.6	-2.5	35.1	74.0	-38.9	Peak	Horizontal
	5054.5	36.6	0.6	37.2	74.0	-36.8	Peak	Horizontal
*	7077.5	33.6	7.7	41.3	74.0	-32.7	Peak	Horizontal
*	8675.5	35.5	9.5	45.0	74.0	-29.0	Peak	Horizontal
	4051.5	37.3	-2.6	34.7	74.0	-39.3	Peak	Vertical
	4774.0	35.9	0.0	35.9	74.0	-38.1	Peak	Vertical
*	6219.0	35.6	3.1	38.7	74.0	-35.3	Peak	Vertical
*	7927.5	34.8	8.3	43.1	74.0	-30.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11g	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3805.0	38.1	-3.2	34.9	74.0	-39.1	Peak	Horizontal
	4995.0	37.3	-0.1	37.2	74.0	-36.8	Peak	Horizontal
*	6533.5	34.9	4.5	39.4	74.0	-34.6	Peak	Horizontal
*	8667.0	34.0	9.6	43.6	74.0	-30.4	Peak	Horizontal
	4196.0	37.5	-2.0	35.5	74.0	-38.5	Peak	Vertical
	5063.0	37.5	0.6	38.1	74.0	-35.9	Peak	Vertical
*	6491.0	34.3	4.4	38.7	74.0	-35.3	Peak	Vertical
*	10392.5	33.6	12.5	46.1	74.0	-27.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11n-HT20	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4102.5	37.6	-2.4	35.2	74.0	-38.8	Peak	Horizontal
	4927.0	37.1	0.2	37.3	74.0	-36.7	Peak	Horizontal
*	6576.0	34.8	5.0	39.8	74.0	-34.2	Peak	Horizontal
*	8735.0	32.9	9.8	42.7	74.0	-31.3	Peak	Horizontal
	4077.0	37.3	-2.7	34.6	74.0	-39.4	Peak	Vertical
	4825.0	37.0	-0.1	36.9	74.0	-37.1	Peak	Vertical
*	6856.5	35.7	5.7	41.4	74.0	-32.6	Peak	Vertical
*	8675.5	33.2	9.5	42.7	74.0	-31.3	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11n-HT20	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4017.5	38.0	-2.6	35.4	74.0	-38.6	Peak	Horizontal
	4646.5	36.9	-0.2	36.7	74.0	-37.3	Peak	Horizontal
*	7120.0	34.8	7.7	42.5	74.0	-31.5	Peak	Horizontal
*	8752.0	32.9	10.1	43.0	74.0	-31.0	Peak	Horizontal
	4357.5	37.2	-1.5	35.7	74.0	-38.3	Peak	Vertical
	5020.5	37.9	0.2	38.1	74.0	-35.9	Peak	Vertical
*	6244.5	36.1	3.0	39.1	74.0	-34.9	Peak	Vertical
*	8811.5	33.2	9.9	43.1	74.0	-30.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11n-HT20	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4026.0	37.5	-2.5	35.0	74.0	-39.0	Peak	Horizontal
	4935.5	37.9	0.1	38.0	74.0	-36.0	Peak	Horizontal
*	6584.5	34.5	5.1	39.6	74.0	-34.4	Peak	Horizontal
*	8692.5	32.7	9.6	42.3	74.0	-31.7	Peak	Horizontal
	4026.0	38.0	-2.5	35.5	74.0	-38.5	Peak	Vertical
	4799.5	36.7	0.2	36.9	74.0	-37.1	Peak	Vertical
*	6389.0	35.9	3.5	39.4	74.0	-34.6	Peak	Vertical
*	8616.0	34.1	9.2	43.3	74.0	-30.7	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11n-HT40	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4187.5	37.0	-2.0	35.0	74.0	-39.0	Peak	Horizontal
	5020.5	36.1	0.2	36.3	74.0	-37.7	Peak	Horizontal
*	6967.0	36.0	6.5	42.5	74.0	-31.5	Peak	Horizontal
*	8590.5	34.0	9.1	43.1	74.0	-30.9	Peak	Horizontal
	4298.0	37.4	-1.6	35.8	74.0	-38.2	Peak	Vertical
	4731.5	35.0	-0.3	34.7	74.0	-39.3	Peak	Vertical
*	6482.5	35.6	4.3	39.9	74.0	-34.1	Peak	Vertical
*	8760.5	33.5	10.1	43.6	74.0	-30.4	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11n-HT40	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4230.0	36.0	-2.2	33.8	74.0	-40.2	Peak	Horizontal
	4655.0	36.5	-0.1	36.4	74.0	-37.6	Peak	Horizontal
*	6312.5	36.1	3.2	39.3	74.0	-34.7	Peak	Horizontal
*	8658.5	32.2	9.6	41.8	74.0	-32.2	Peak	Horizontal
	3958.0	39.5	-3.2	36.3	74.0	-37.7	Peak	Vertical
	4621.0	37.3	-0.7	36.6	74.0	-37.4	Peak	Vertical
*	6746.0	36.2	5.1	41.3	74.0	-32.7	Peak	Vertical
*	8760.5	33.0	10.1	43.1	74.0	-30.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11n-HT40	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4034.5	37.8	-2.5	35.3	74.0	-38.7	Peak	Horizontal
	4799.5	36.1	0.2	36.3	74.0	-37.7	Peak	Horizontal
*	5938.5	34.1	2.0	36.1	74.0	-37.9	Peak	Horizontal
*	8675.5	33.8	9.5	43.3	74.0	-30.7	Peak	Horizontal
	4026.0	38.3	-2.5	35.8	74.0	-38.2	Peak	Vertical
	5088.5	38.0	0.1	38.1	74.0	-35.9	Peak	Vertical
*	6550.5	34.5	4.5	39.0	74.0	-35.0	Peak	Vertical
*	8675.5	33.6	9.5	43.1	74.0	-30.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11ax-HE20	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3958.0	37.7	-3.2	34.5	74.0	-39.5	Peak	Horizontal
	5054.5	36.6	0.6	37.2	74.0	-36.8	Peak	Horizontal
*	6559.0	35.1	4.5	39.6	74.0	-34.4	Peak	Horizontal
*	8616.0	34.0	9.2	43.2	74.0	-30.8	Peak	Horizontal
	4026.0	37.8	-2.5	35.3	74.0	-38.7	Peak	Vertical
	5054.5	37.7	0.6	38.3	74.0	-35.7	Peak	Vertical
*	6508.0	35.0	4.3	39.3	74.0	-34.7	Peak	Vertical
*	8667.0	33.5	9.6	43.1	74.0	-30.9	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11ax-HE20	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	3958.0	39.4	-3.2	36.2	74.0	-37.8	Peak	Horizontal
	5054.5	36.3	0.6	36.9	74.0	-37.1	Peak	Horizontal
*	6236.0	35.6	2.9	38.5	74.0	-35.5	Peak	Horizontal
*	8599.0	34.1	9.3	43.4	74.0	-30.6	Peak	Horizontal
	4017.5	37.4	-2.6	34.8	74.0	-39.2	Peak	Vertical
	4655.0	37.1	-0.1	37.0	74.0	-37.0	Peak	Vertical
*	6482.5	34.7	4.3	39.0	74.0	-35.0	Peak	Vertical
*	8692.5	32.3	9.6	41.9	74.0	-32.1	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11ax-HE20	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4060.0	36.2	-2.6	33.6	74.0	-40.4	Peak	Horizontal
	4663.5	36.2	0.0	36.2	74.0	-37.8	Peak	Horizontal
*	6355.0	34.2	3.7	37.9	74.0	-36.1	Peak	Horizontal
*	8752.0	33.0	10.1	43.1	74.0	-30.9	Peak	Horizontal
	4085.5	38.7	-2.5	36.2	74.0	-37.8	Peak	Vertical
	5037.5	36.8	0.5	37.3	74.0	-36.7	Peak	Vertical
*	6244.5	35.0	3.0	38.0	74.0	-36.0	Peak	Vertical
*	8811.5	32.4	9.9	42.3	74.0	-31.7	Peak	Vertical

Note 1: “*” means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11ax-HE40	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4017.5	39.0	-2.6	36.4	74.0	-37.6	Peak	Horizontal
	5063.0	37.2	0.6	37.8	74.0	-36.2	Peak	Horizontal
*	6253.0	35.9	3.2	39.1	74.0	-34.9	Peak	Horizontal
*	8633.0	34.3	9.4	43.7	74.0	-30.3	Peak	Horizontal
	4085.5	38.4	-2.5	35.9	74.0	-38.1	Peak	Vertical
	4646.5	36.7	-0.2	36.5	74.0	-37.5	Peak	Vertical
*	6584.5	35.5	5.1	40.6	74.0	-33.4	Peak	Vertical
*	8616.0	33.3	9.2	42.5	74.0	-31.5	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11ax-HE40	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4153.5	37.7	-2.0	35.7	74.0	-38.3	Peak	Horizontal
	5046.0	36.8	0.5	37.3	74.0	-36.7	Peak	Horizontal
*	6584.5	34.6	5.1	39.7	74.0	-34.3	Peak	Horizontal
*	8658.5	32.2	9.6	41.8	74.0	-32.2	Peak	Horizontal
	4366.0	37.0	-1.5	35.5	74.0	-38.5	Peak	Vertical
	5063.0	36.5	0.6	37.1	74.0	-36.9	Peak	Vertical
*	6168.0	35.6	2.8	38.4	74.0	-35.6	Peak	Vertical
*	8777.5	32.9	10.0	42.9	74.0	-31.1	Peak	Vertical

Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

Product	ACCESS POINT	Test Engineer	Kevin Ker
Test Site	AC1	Test Date	2020/07/17
Test Mode:	802.11ax-HE40	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4026.0	37.8	-2.5	35.3	74.0	-38.7	Peak	Horizontal
	4935.5	36.4	0.1	36.5	74.0	-37.5	Peak	Horizontal
*	5955.5	36.0	2.0	38.0	74.0	-36.0	Peak	Horizontal
*	8658.5	32.2	9.6	41.8	74.0	-32.2	Peak	Horizontal
	4017.5	38.1	-2.6	35.5	74.0	-38.5	Peak	Vertical
	5063.0	36.7	0.6	37.3	74.0	-36.7	Peak	Vertical
*	6338.0	35.8	3.5	39.3	74.0	-34.7	Peak	Vertical
*	8658.5	32.3	9.6	41.9	74.0	-32.1	Peak	Vertical

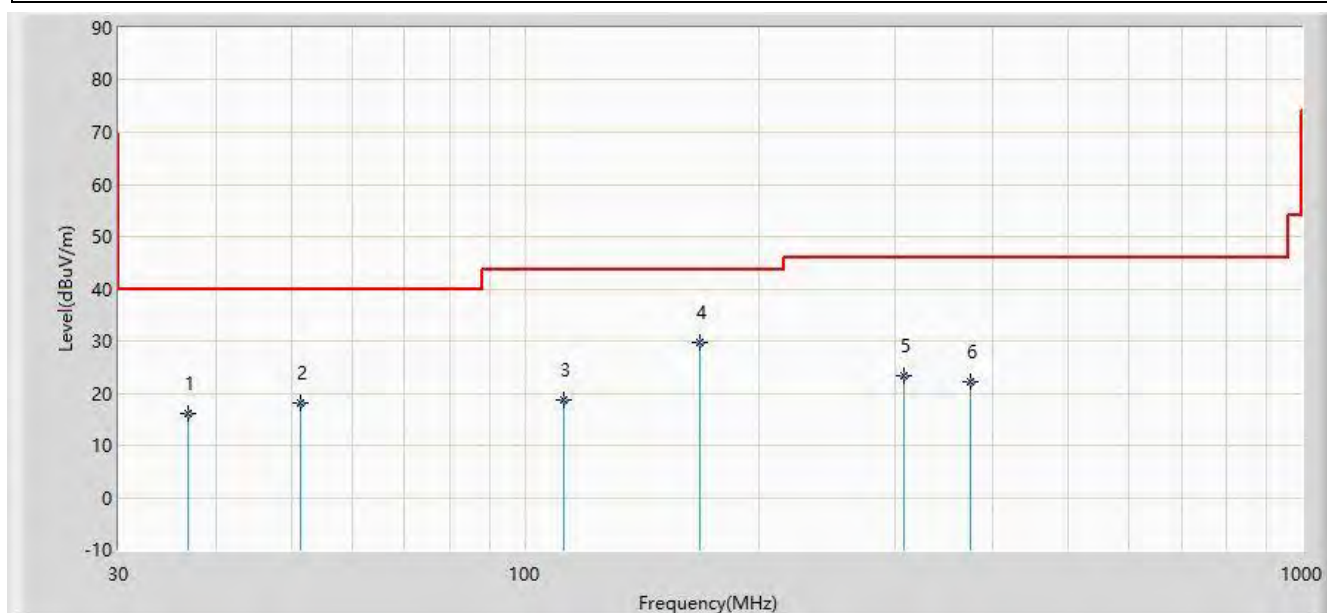
Note 1: "*" means test frequency didn't fall into restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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

The Result of Radiated Emission below 1GHz:

Site: AC1	Time: 2020/08/06 - 01:40
Limit: NCC LP0002_30MHz-1GHz_QP	Engineer: Kevin Ker
Probe: VULB 9162 (30MHz~8GHz)	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			36.790	16.067	-3.540	-23.933	40.000	19.607	QP
2			51.340	17.988	-3.450	-22.012	40.000	21.438	QP
3			112.450	18.819	0.540	-24.681	43.500	18.279	QP
4		*	168.225	29.849	13.540	-13.651	43.500	16.310	QP
5			307.420	23.223	1.521	-22.777	46.000	21.702	QP
6			374.835	22.193	-1.600	-23.807	46.000	23.793	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

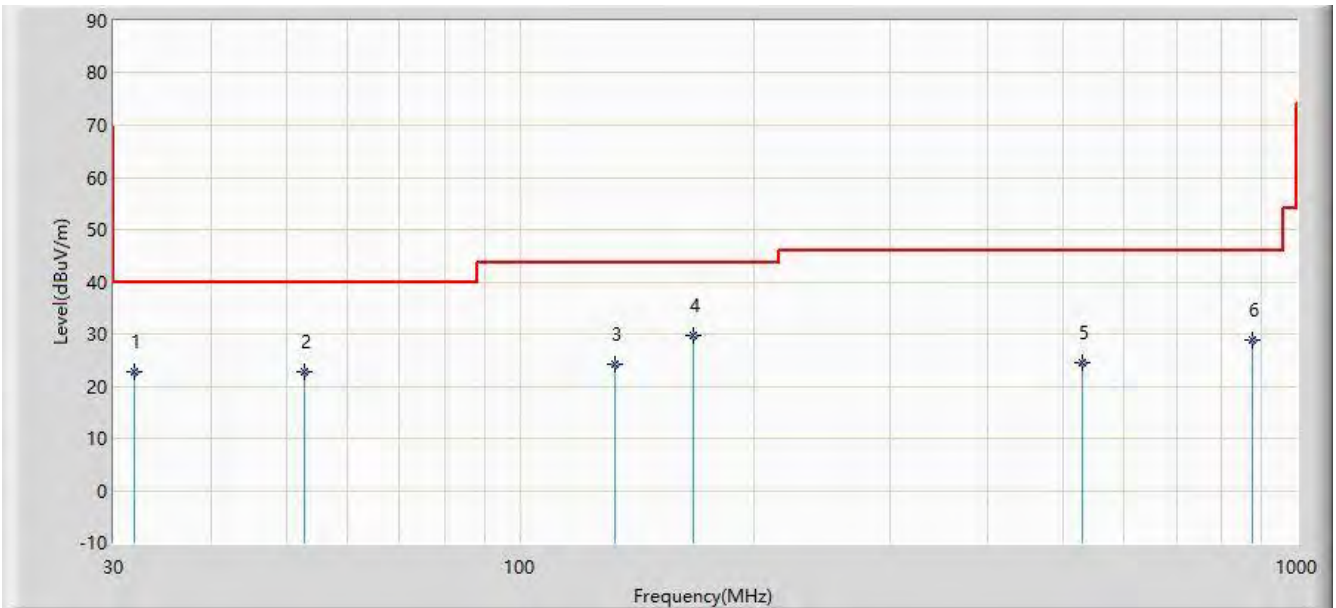
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Note 3: 經初測驗證過，1GHz 以下輻射干擾測試對測試頻道數並無差異，故僅檢附最差狀況之測試頻道。

Site: AC1	Time: 2020/08/06 - 01:41
Limit: NCC LP0002_30MHz-1GHz_QP	Engineer: Kevin Ker
Probe: VULB 9162 (30MHz~8GHz)	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			31.940	22.784	4.400	-17.216	40.000	18.384	QP
2			52.795	22.757	1.540	-17.243	40.000	21.216	QP
3			132.820	24.329	8.500	-19.171	43.500	15.829	QP
4		*	167.255	29.827	13.540	-13.673	43.500	16.287	QP
5			530.520	24.352	-1.950	-21.648	46.000	26.302	QP
6			874.870	28.927	-2.450	-17.073	46.000	31.377	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Note 3: 經初測驗證過，1GHz 以下輻射干擾測試對測試頻道數並無差異，故僅檢附最差狀況之測試頻道。

5.5. 混附發射之 RF 傳導發射

5.5.1. 適用標準

依據國家通訊傳撥委員會低功率射頻電機技術規範之第 3.10.1.5 節，使用頻帶範圍外之任意 100 千赫 (kHz) 內，發射機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 100 千赫 (kHz) 內的射頻功率，至少須衰減 20 dB，以射頻傳導或輻射方式測量。如發射機以本節 3.10.1(2)(2.3) 之峰值傳導輸出功率量測方式者，至少須衰減 30 dB。此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定。

備註

解析頻寬設置為 1.3 MHz 是為了提供量測速度。使用限值還是法規定義的基於解析頻寬 100 kHz 情形下主波下降 20dB，如果量測波形接近限值，我們會使用降低解析頻寬方式作驗證。

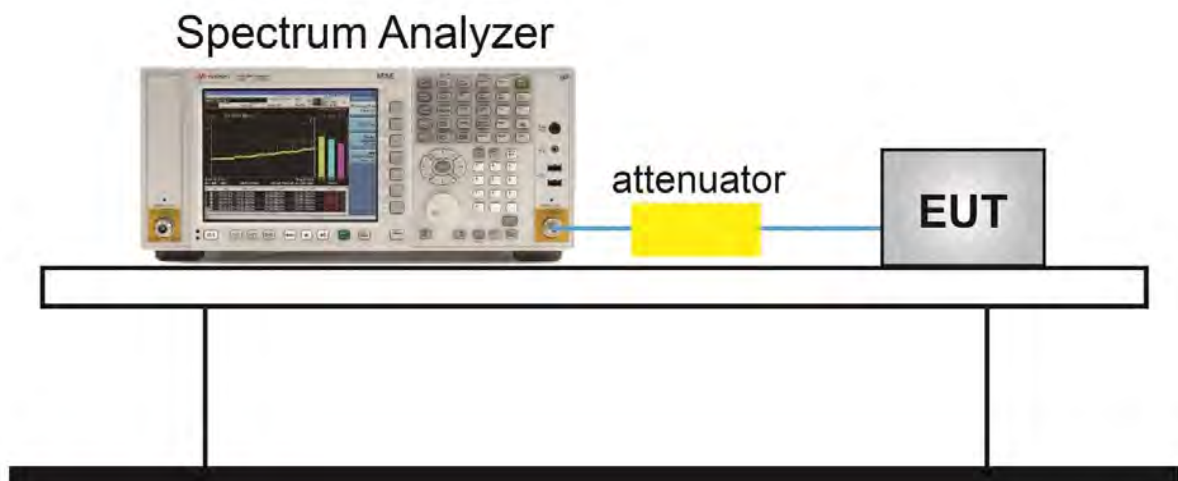
5.5.2. 量測方法

依據國家通訊傳撥委員會低功率射頻電機技術規範之附件三，頻率跳頻展頻系統檢測之參考程式七 混附發射之 RF 傳導發射：

(一) 頻譜分析儀設定如下：

1. 頻率掃描範圍足以檢測頻帶內的發射波峰位準以及由受測物產生之最低頻率到第 10 次諧波的所有混附發射，通常需要分幾段以涵蓋全部頻率範圍。
2. 解析頻寬為 100kHz，視訊頻寬不小於解析頻寬。
3. 掃描時間為自動，檢波功能為峰值，訊號軌跡為最大保留(Max Hold)。
4. 將標記設定於任何欲紀錄之波峰上，所顯示之位準值必須符合指定之限制值。

5.5.3. 測試架構圖



5.5.4. 混附發射之 RF 傳導發射測試結果

待測物名稱	ACCESS POINT	溫度	25°C
測試工程師	Eric Lin	濕度	54%
測試場地	SR2	測試日期	2020/07/28
待測物型號	APINH503		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
802.11b	1Mbps	01	2412	30	Pass
802.11b	1Mbps	06	2437	30	Pass
802.11b	1Mbps	11	2462	30	Pass
802.11g	6Mbps	01	2412	30	Pass
802.11g	6Mbps	06	2437	30	Pass
802.11g	6Mbps	11	2462	30	Pass
802.11n-HT20	MCS0	01	2412	30	Pass
802.11n-HT20	MCS0	06	2437	30	Pass
802.11n-HT20	MCS0	11	2462	30	Pass
802.11n-HT40	MCS0	03	2422	30	Pass
802.11n-HT40	MCS0	06	2437	30	Pass
802.11n-HT40	MCS0	09	2452	30	Pass
802.11ax-HE20	MCS0	01	2412	30	Pass
802.11ax-HE20	MCS0	06	2437	30	Pass
802.11ax-HE20	MCS0	11	2462	30	Pass
802.11ax-HE40	MCS0	03	2422	30	Pass
802.11ax-HE40	MCS0	06	2437	30	Pass
802.11ax-HE40	MCS0	09	2452	30	Pass

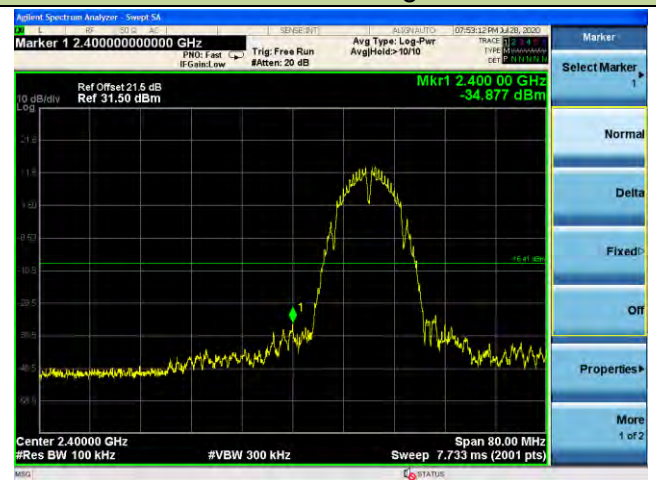
802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

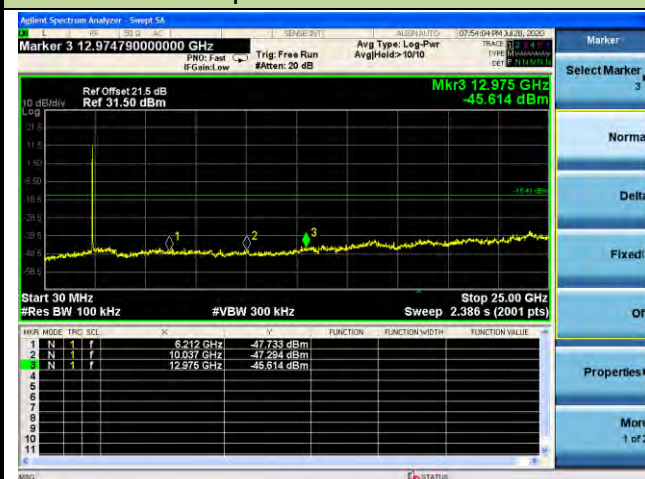
100kHz PSD reference Level



Low Band Edge



Spurious Emission



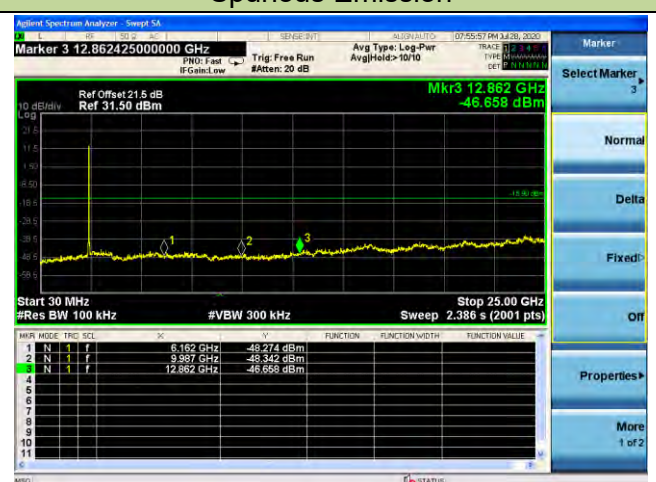
Note: The Value of the Display Line is -16.41dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -15.90dBm

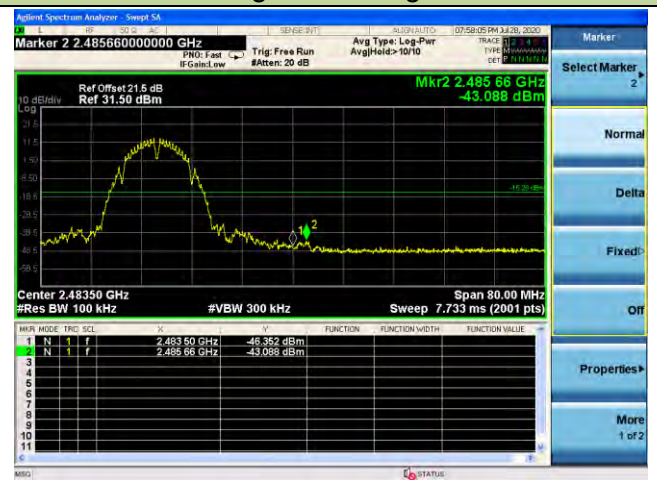
802.11b Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 11 (2462MHz)

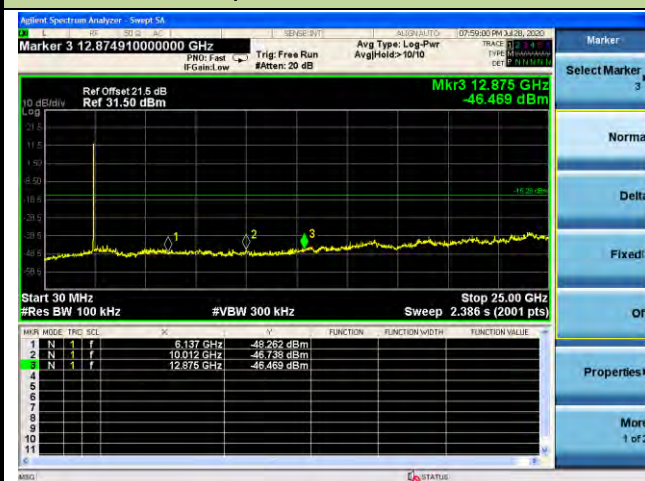
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -16.28dBm

802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

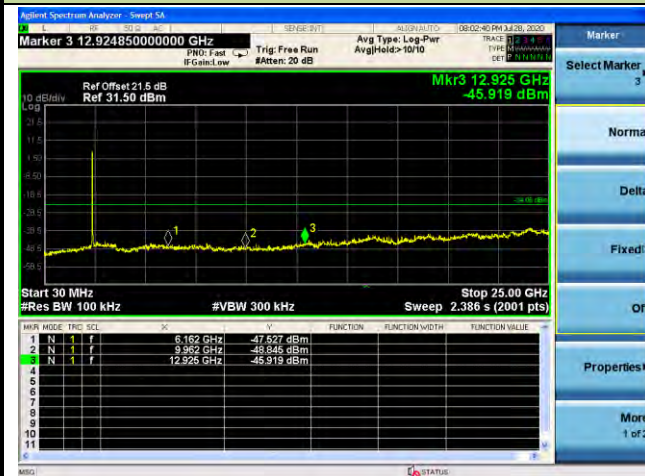
100kHz PSD reference Level



Low Band Edge



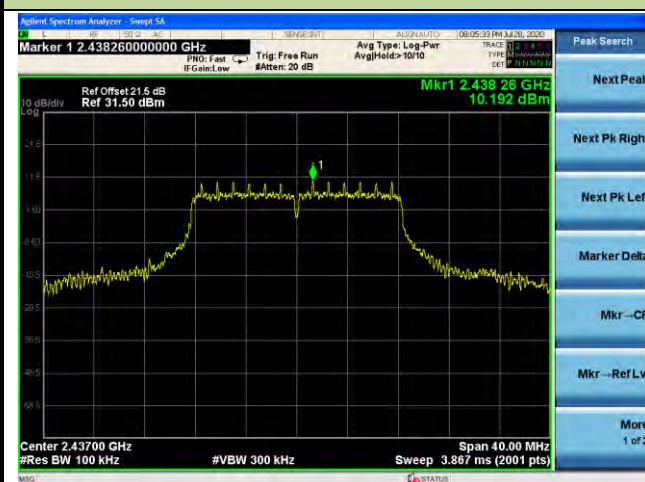
Spurious Emission



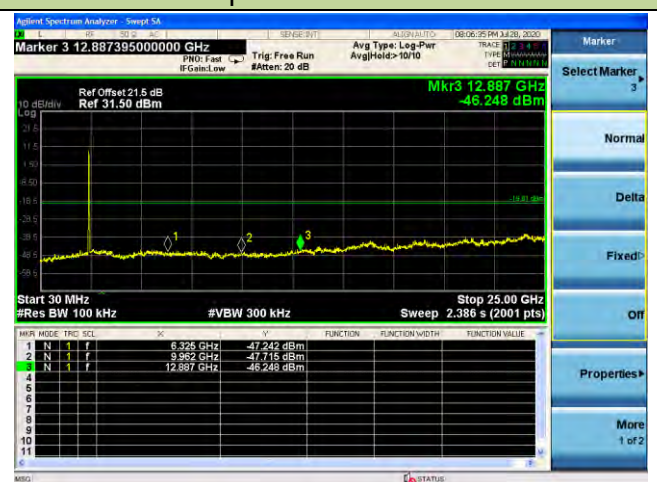
Note: The Value of the Display Line is -24.06dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -19.81dBm

802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 11 (2462MHz)

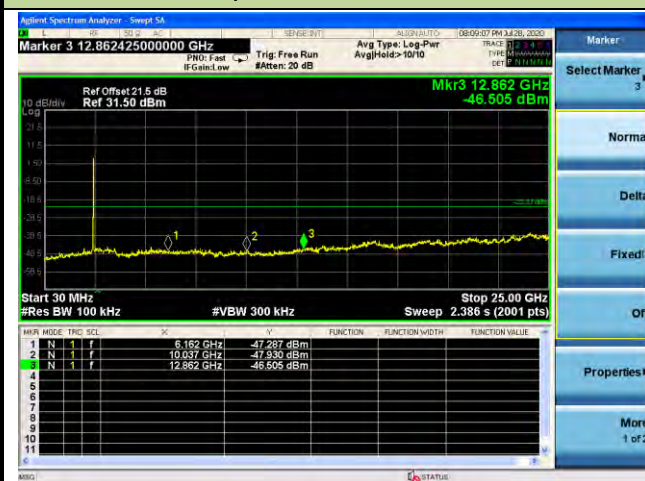
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -22.33dBm

802.11n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

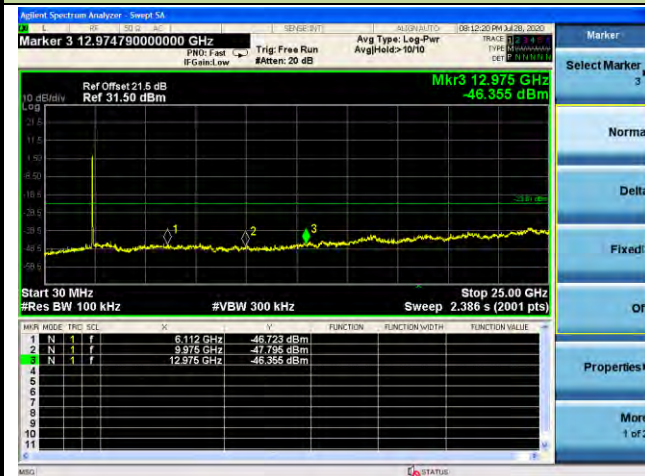
100kHz PSD reference Level



Low Band Edge



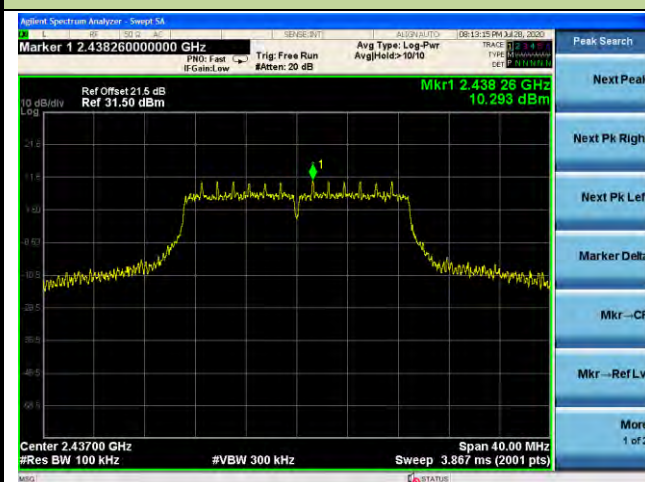
Spurious Emission



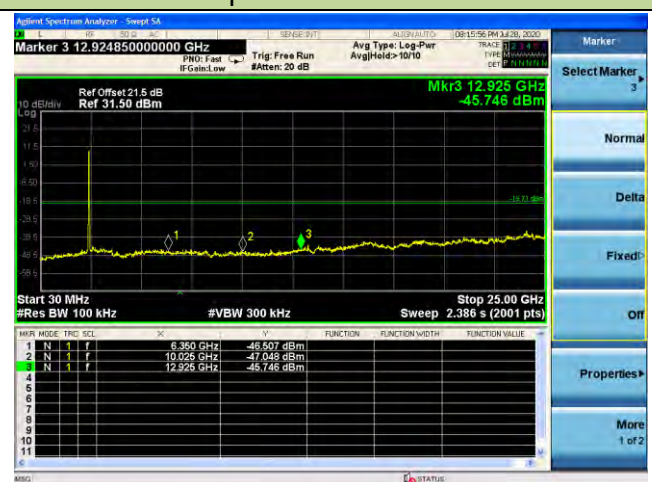
Note: The Value of the Display Line is -23.61dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -19.71dBm

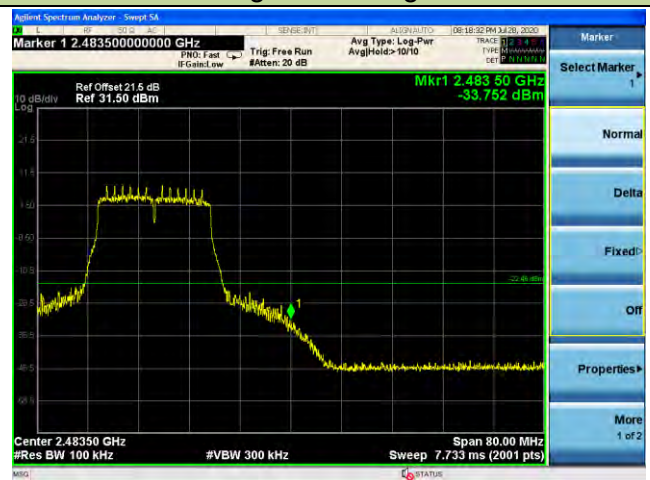
802.11n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 11 (2462MHz)

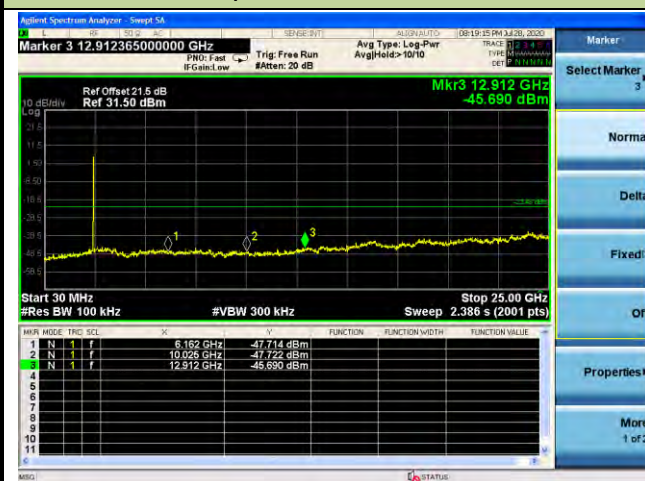
100kHz PSD reference Level



High Band Edge



Spurious Emission

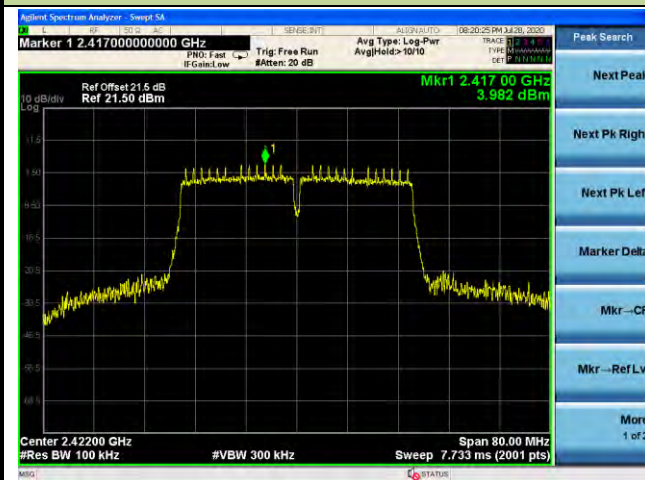


Note: The Value of the Display Line is -22.46dBm

802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)

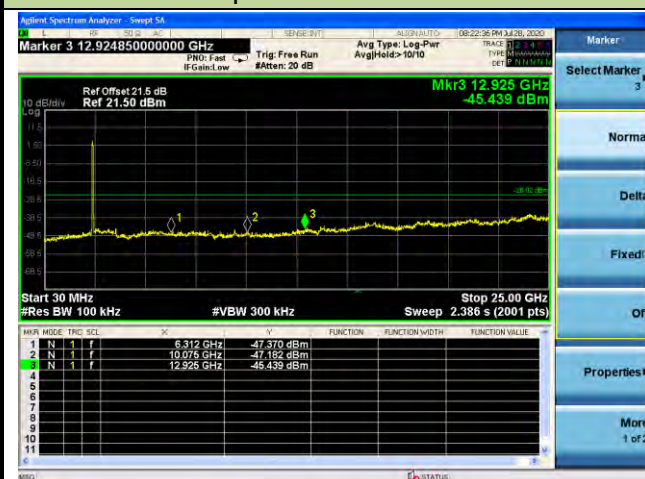
100kHz PSD reference Level



Low Band Edge



Spurious Emission



Note: The Value of the Display Line is -26.02dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -25.38dBm

802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 09 (2452MHz)

100kHz PSD reference Level



High Band Edge



Spurious Emission

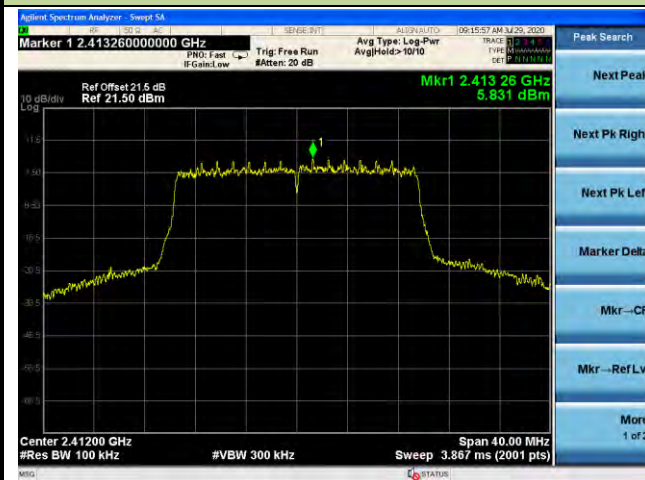


Note: The Value of the Display Line is -26.26dBm

802.11ax-HE20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

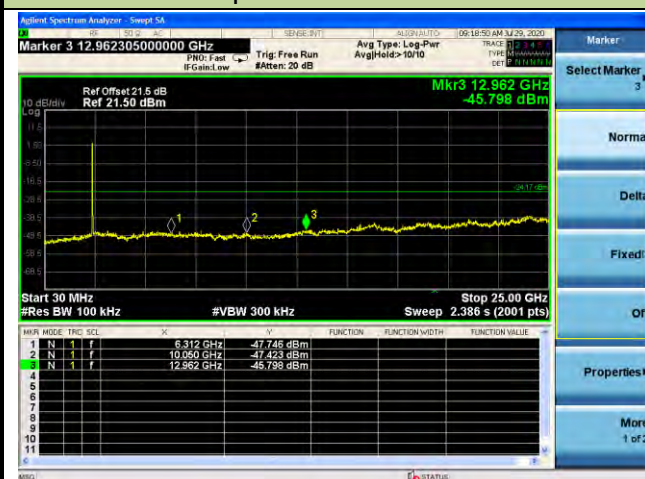
100kHz PSD reference Level



Low Band Edge



Spurious Emission



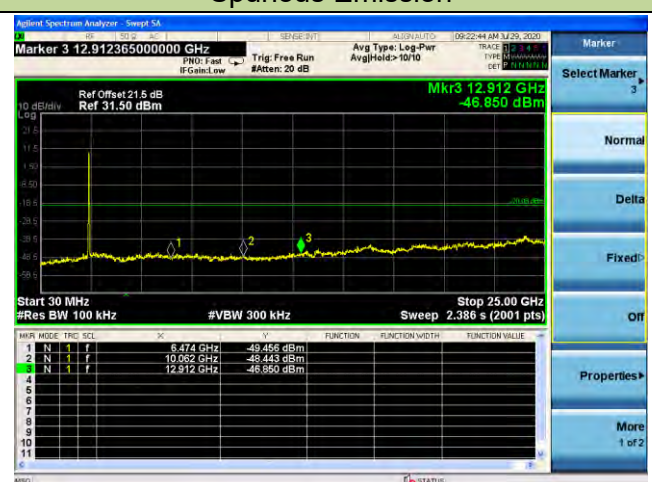
Note: The Value of the Display Line is -24.17dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -20.08dBm

802.11ax-HE20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 11 (2462MHz)

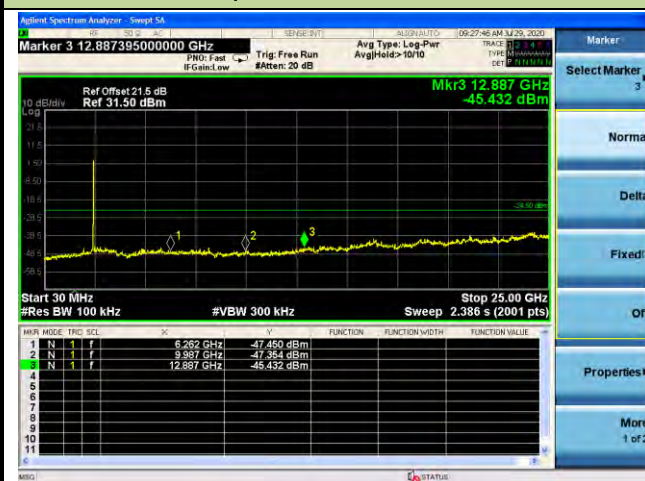
100kHz PSD reference Level



High Band Edge



Spurious Emission

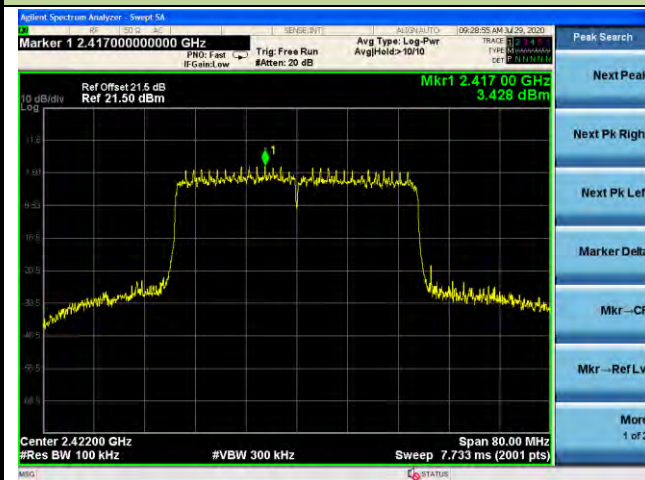


Note: The Value of the Display Line is -24.50dBm

802.11ax-HE40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)

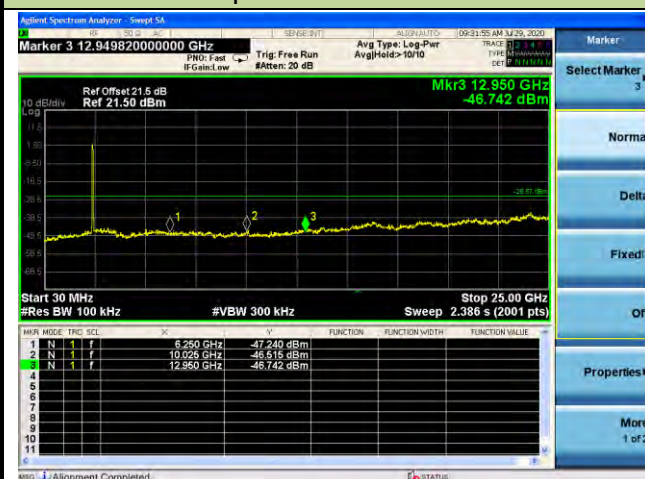
100kHz PSD reference Level



Low Band Edge



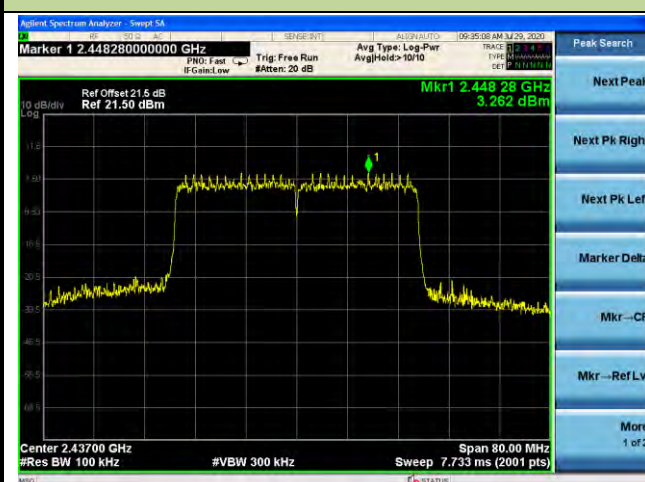
Spurious Emission



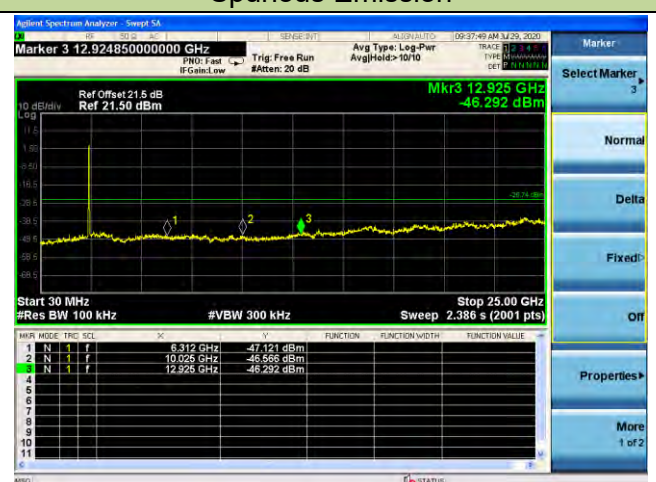
Note: The Value of the Display Line is -26.57dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission

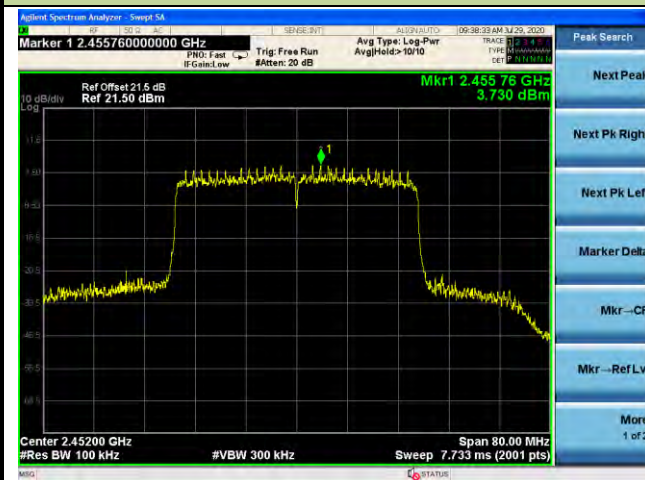


Note: The Value of the Display Line is -26.74dBm

802.11ax-HE40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 09 (2452MHz)

100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -26.27dBm

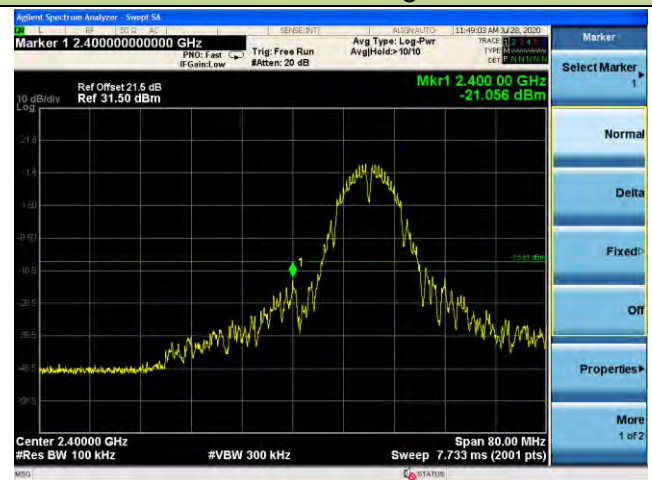
802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

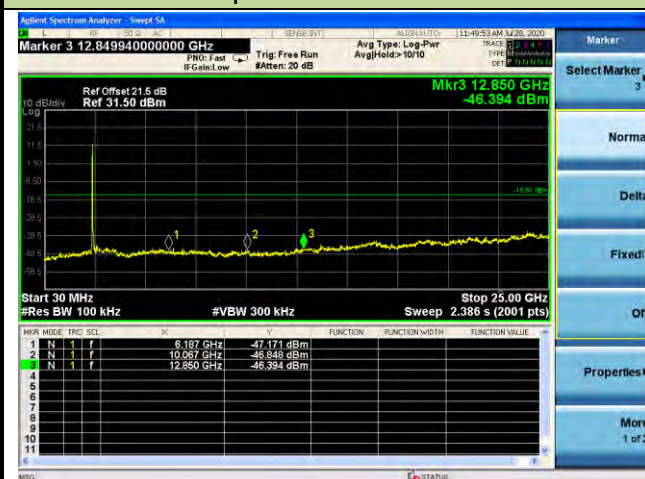
100kHz PSD reference Level



Low Band Edge



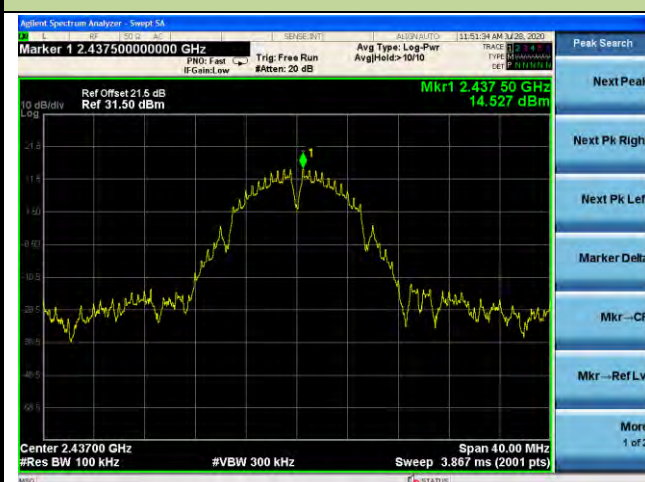
Spurious Emission



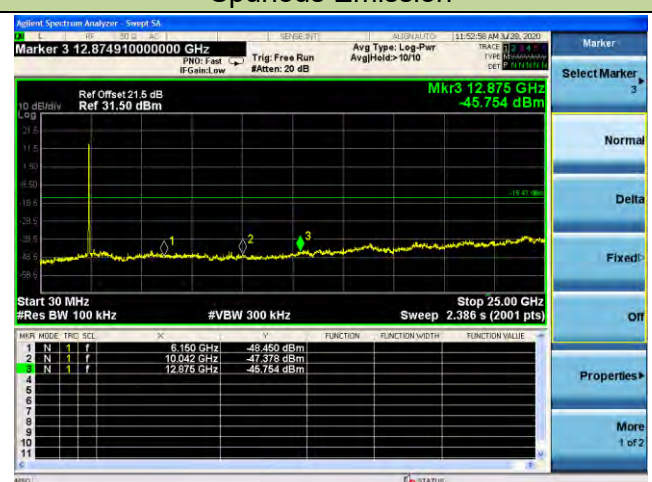
Note: The Value of the Display Line is -15.81dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -15.47dBm

802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

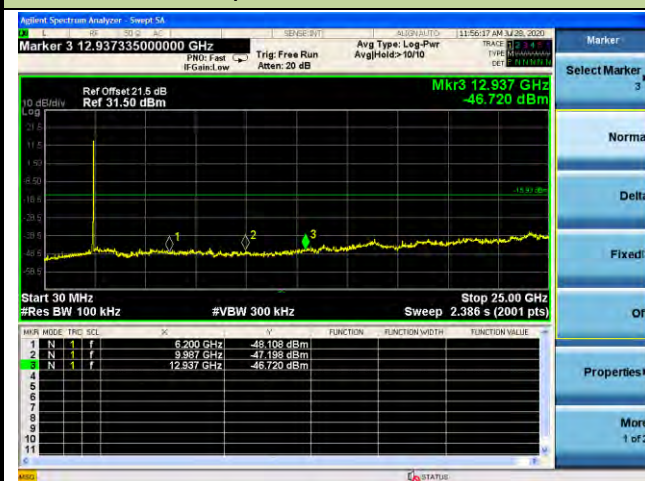
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -15.93dBm

802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

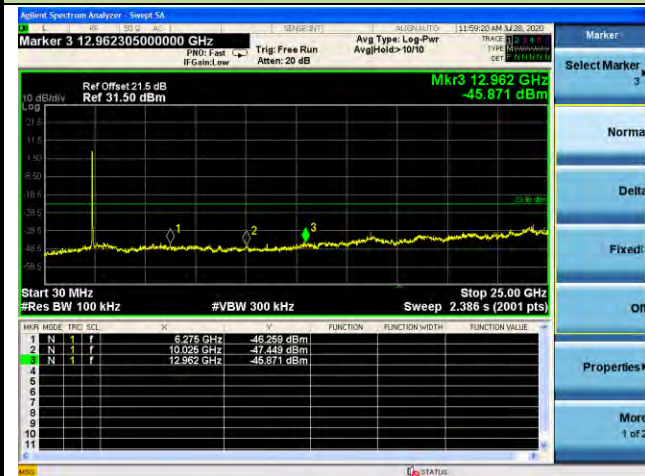
100kHz PSD reference Level



Low Band Edge



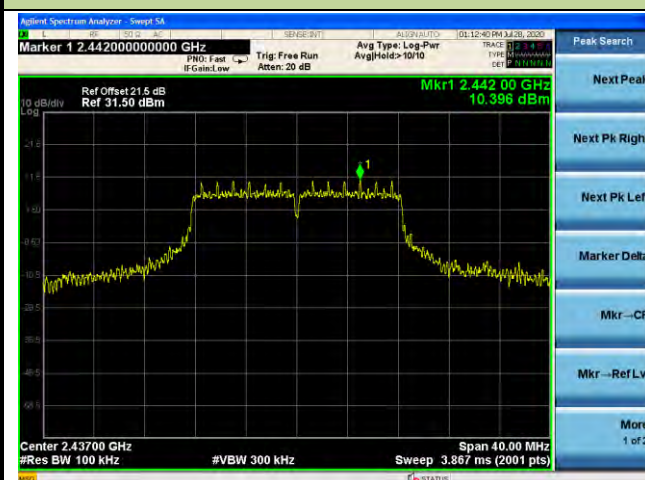
Spurious Emission



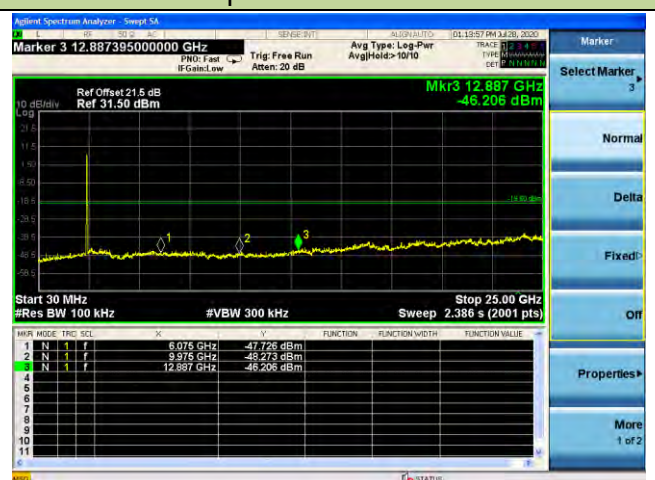
Note: The Value of the Display Line is -23.96dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -19.60dBm

802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

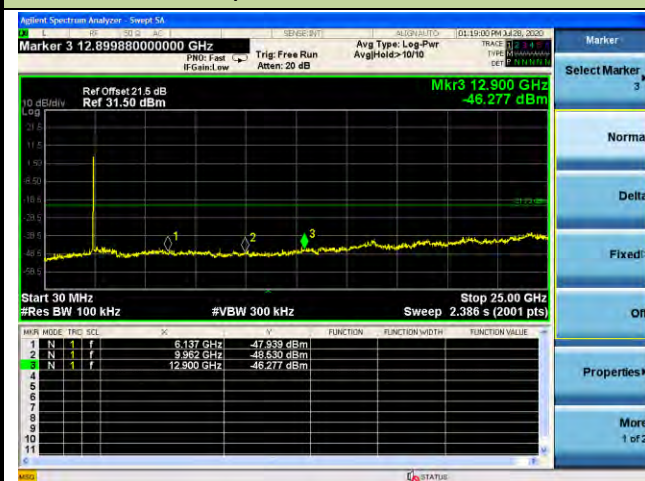
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -21.73dBm

802.11n-HT20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

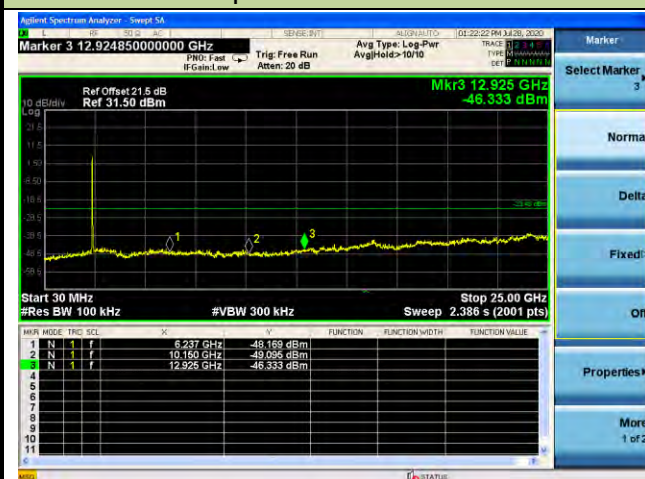
100kHz PSD reference Level



Low Band Edge



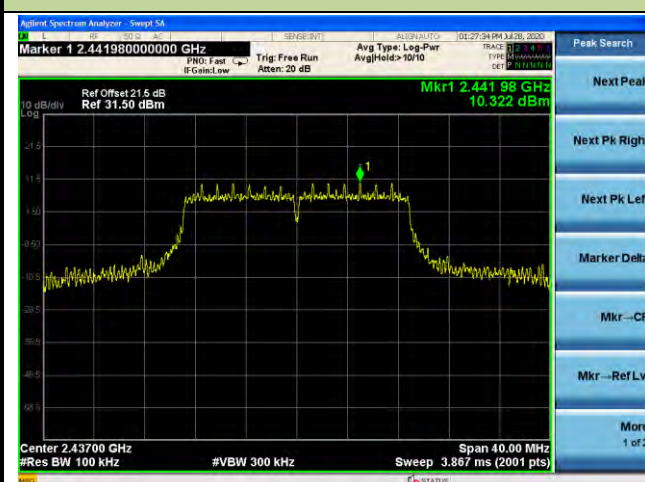
Spurious Emission



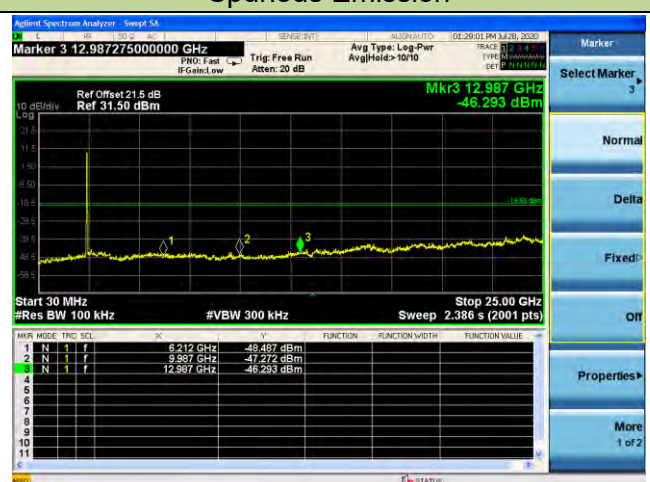
Note: The Value of the Display Line is -23.45dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -19.68dBm

802.11n-HT20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

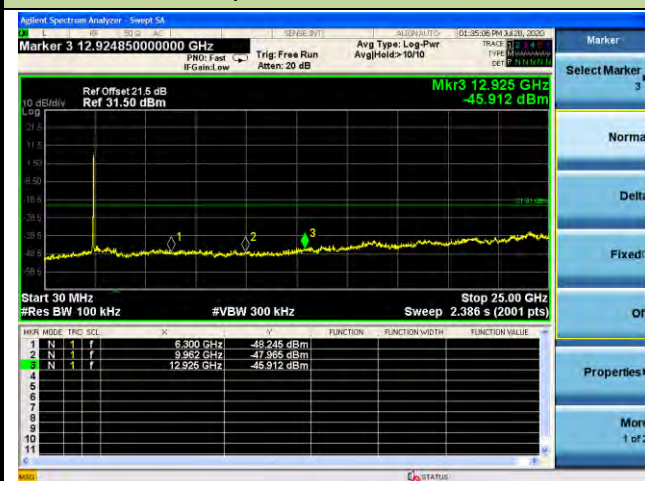
100kHz PSD reference Level



High Band Edge



Spurious Emission

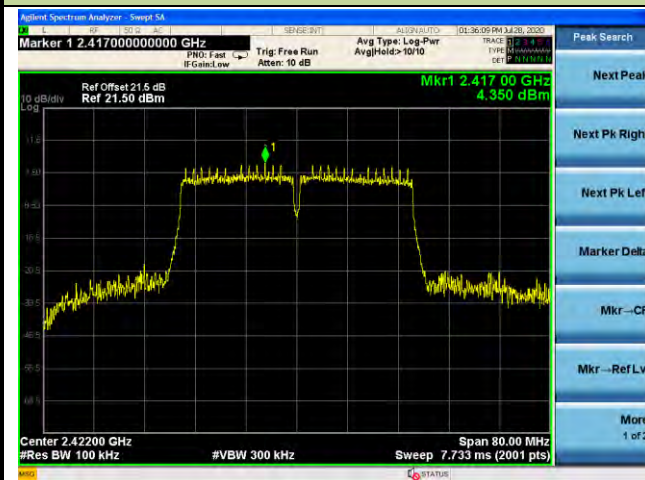


Note: The Value of the Display Line is -21.91dBm

802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

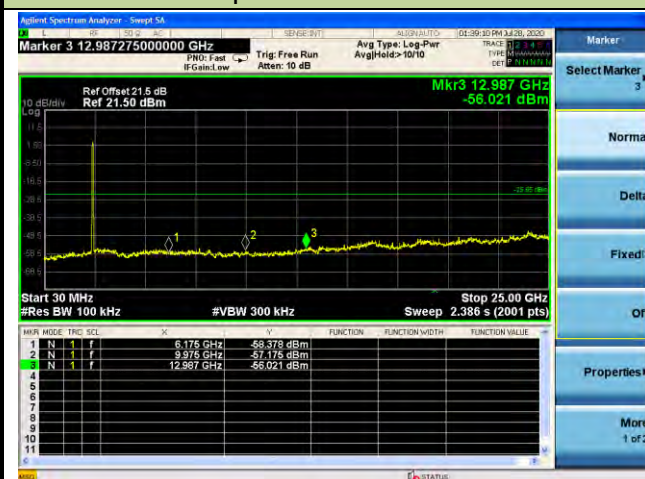
100kHz PSD reference Level



Low Band Edge



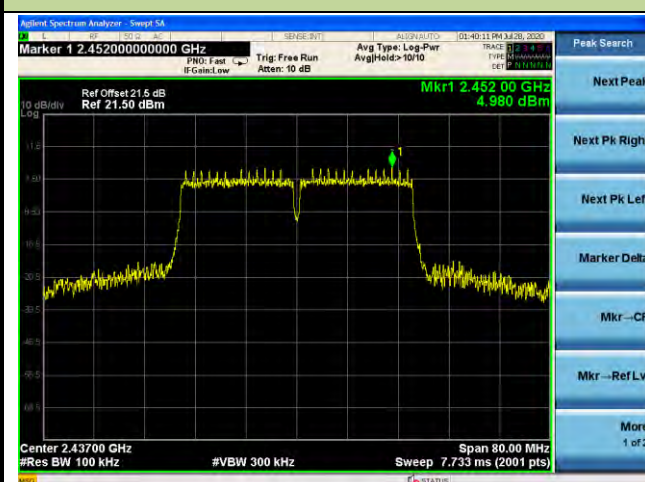
Spurious Emission



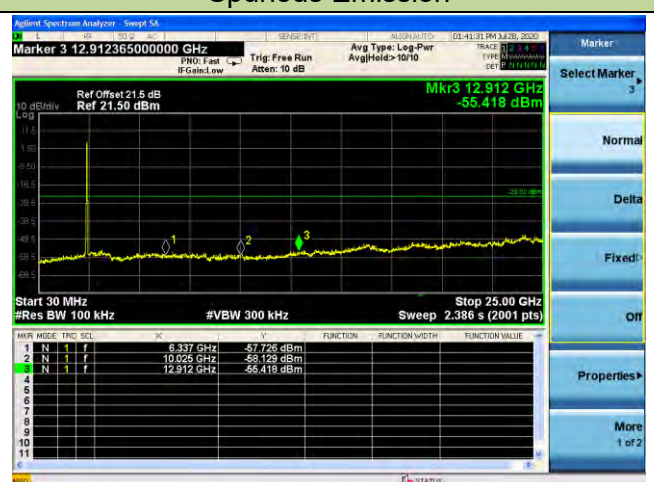
Note: The Value of the Display Line is -25.65dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -25.02dBm

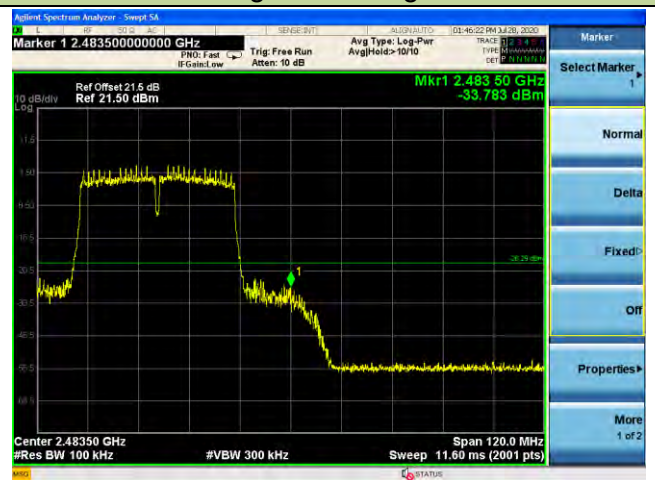
802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 09 (2452MHz)

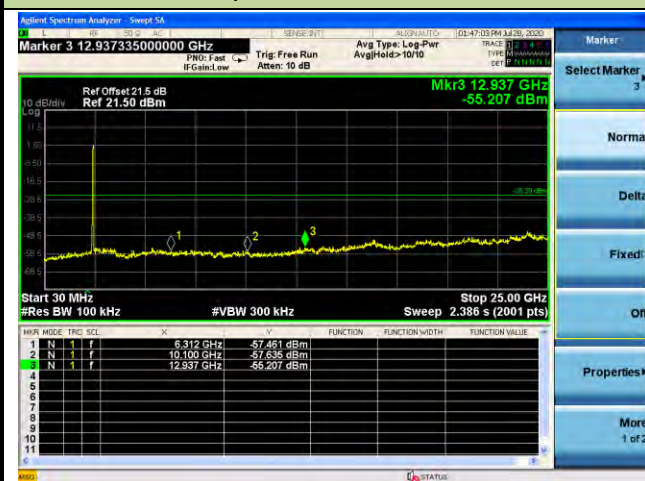
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -26.29dBm

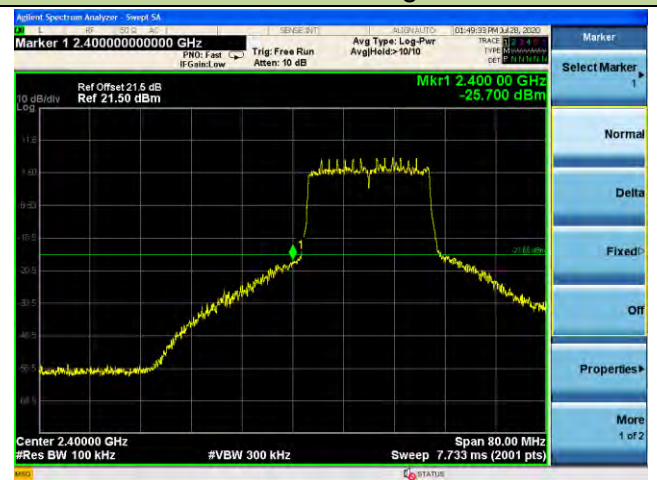
802.11ax-HE20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

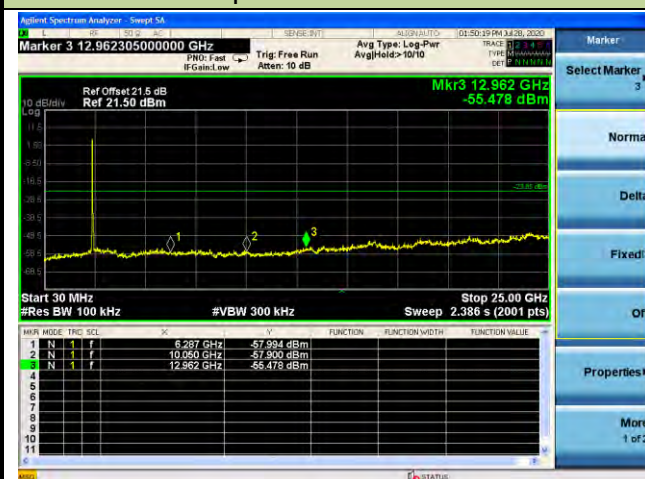
100kHz PSD reference Level



Low Band Edge



Spurious Emission



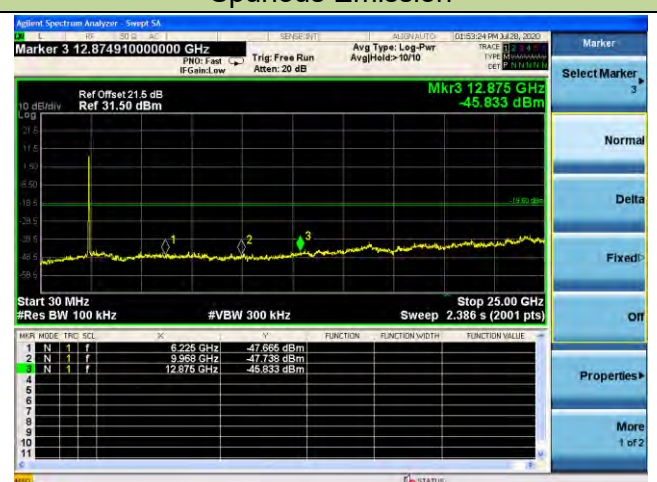
Note: The Value of the Display Line is -23.85dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission



Note: The Value of the Display Line is -19.60dBm

802.11ax-HE20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 11 (2462MHz)

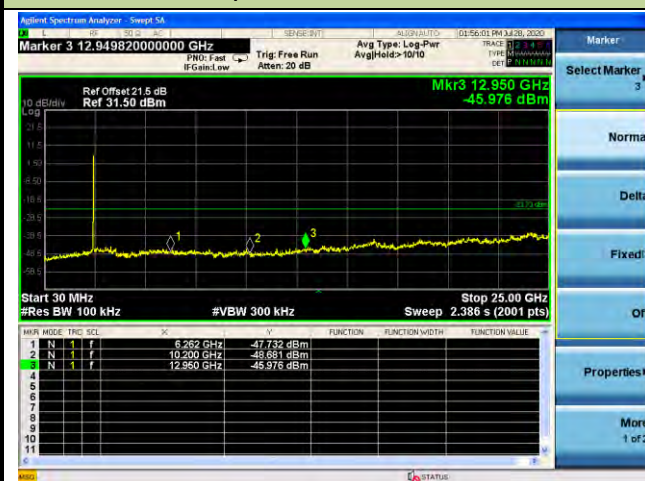
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -23.73dBm

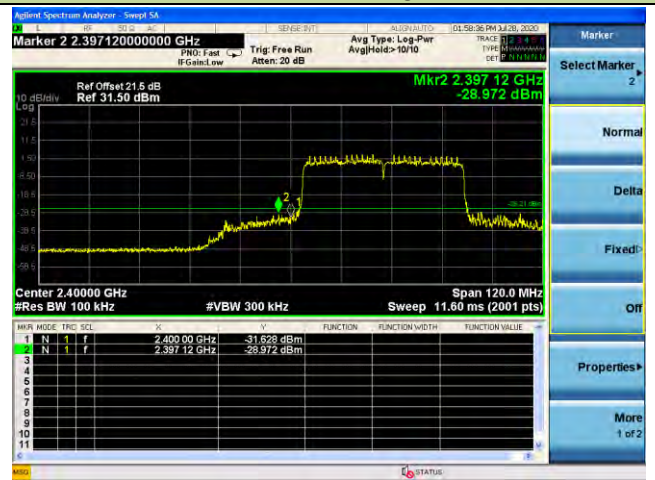
802.11ax-HE40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

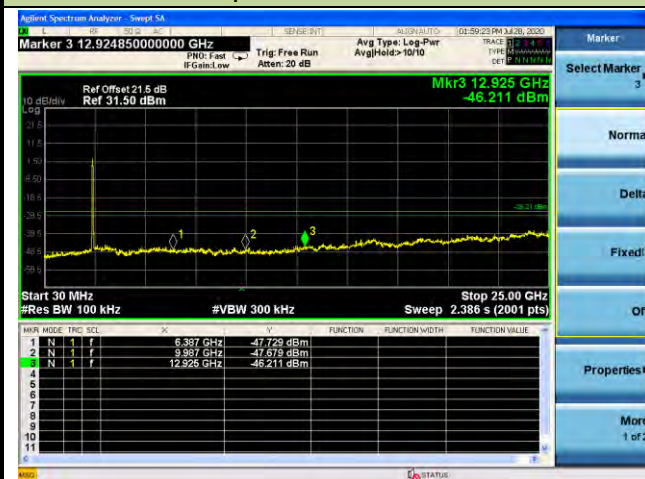
100kHz PSD reference Level



Low Band Edge



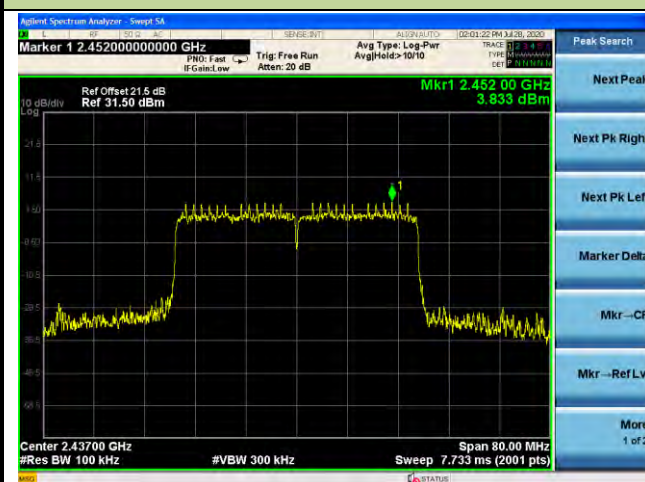
Spurious Emission



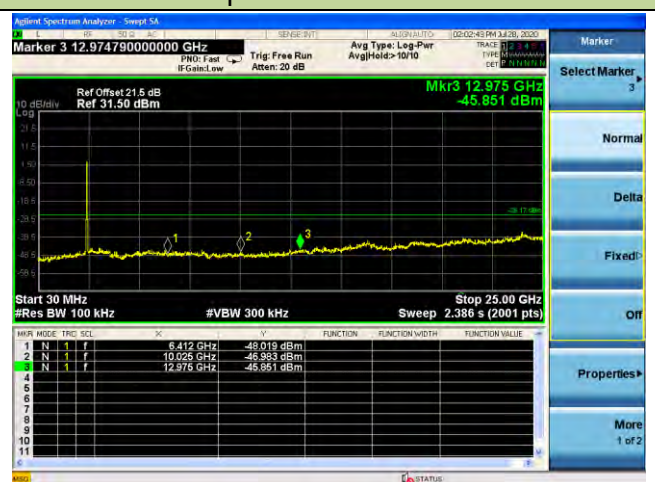
Note: The Value of the Display Line is -26.21dBm

Channel 06 (2437MHz)

100kHz PSD reference Level



Spurious Emission

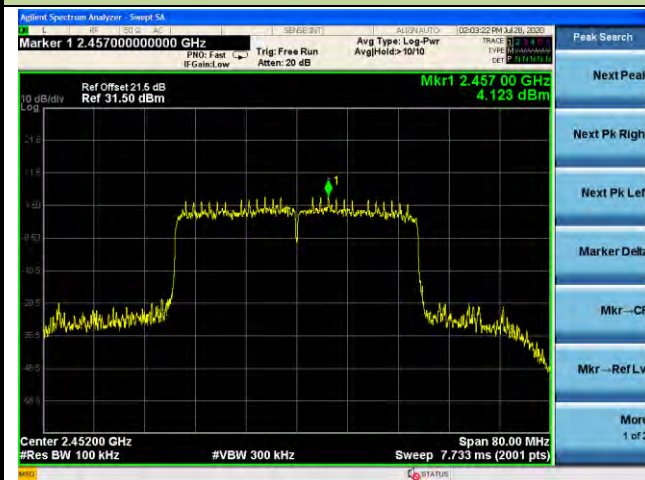


Note: The Value of the Display Line is -26.17dBm

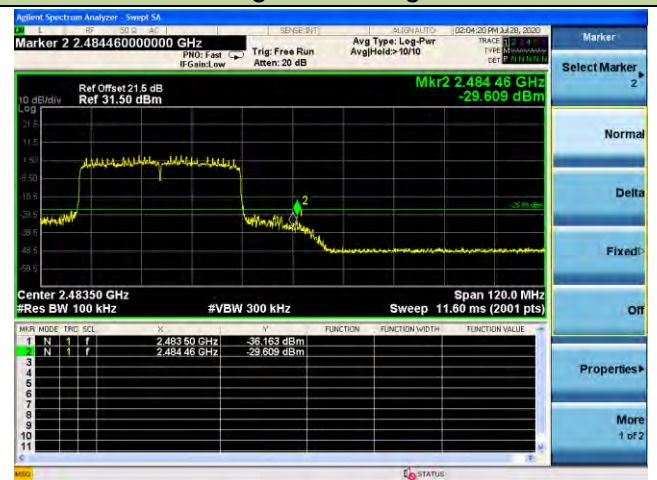
802.11ax-HE40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 09 (2452MHz)

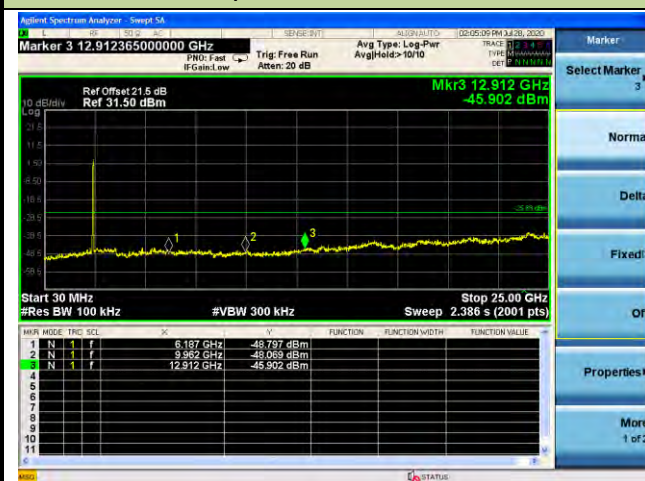
100kHz PSD reference Level



High Band Edge



Spurious Emission



Note: The Value of the Display Line is -25.88dBm

5.6. 開放頻帶邊緣之不必要幅射要求

5.6.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 3.10.1.5 節，使用頻帶範圍外之任意 100 千赫 (kHz)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 100 千赫 (kHz)內的射頻功率，衰減值限制如下：

(1)輸出功率以低功率射頻電機技術規範附件二之峰值輸出功率方式量測者，至少須衰減 20 dB，可使用射頻傳導或輻射方式測量。

(2)輸出功率以低功率射頻電機技術規範 3.10.1(2)(2.3)之最大傳導輸出功率量測方式者，至少須衰減 30 dB。

此外，落於第 2.7 節禁用頻段之輻射發射，應符合第 2.8 節之規定(限制要求如下)：

發射依據國家通訊傳播委員會低功率射頻電機技術規範之第 2.8 節，低功率射頻電機，除本規範各章節另有放寬規定者外，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。

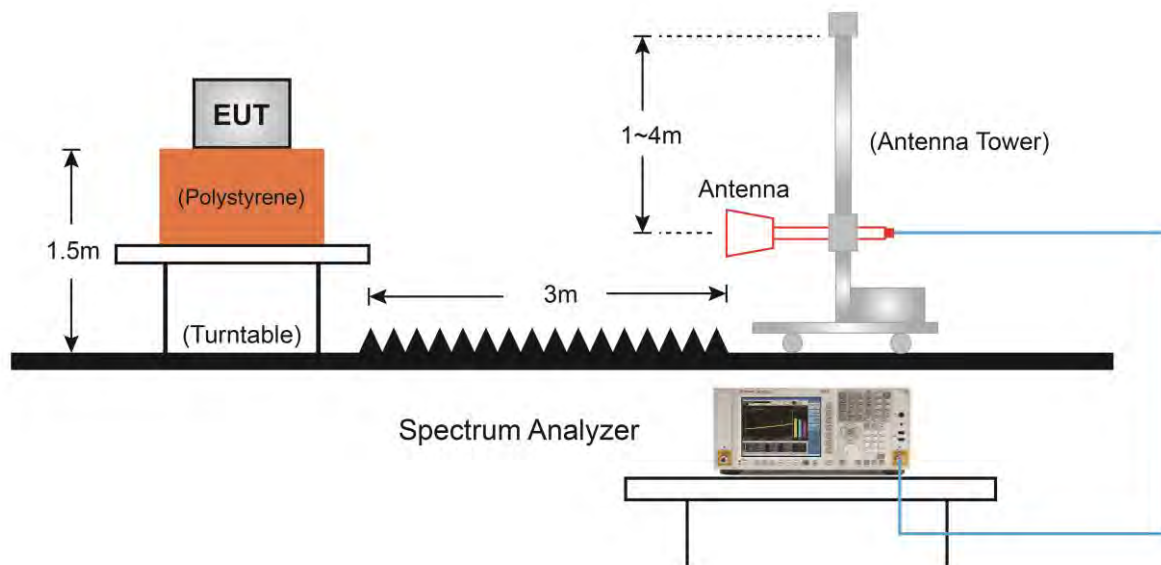
頻 率(兆赫)	電場強度(微伏/公尺)	測距(公尺)
0.009 - 0.490(含)	2,400/頻率(千赫)	300
0.490 (不含) – 1.705 (含)	24,000/頻率(千赫)	30
1.705(不含) – 30 (不含)	30	30
30 (含) – 88 (含)	100	3
88 (不含) - 216 (含)	150	3
216 (不含) - 960 (含)	200	3
960 (不含)以上	500	3

上表規定之電場強度，頻率在 9-90kHz 千赫(kHz)、110-490 千赫(kHz)以及 1000 兆赫(MHz)以上之發射，其量測以平均值檢波器為基準，且須符合第 5.15.2 節之規定；其他頻率之發射，應以 CISPR 準峰值(quasi-peak) 檢波器測量；非以上表所指定之距離測量時須符合第 5.5 節之規定，而輻射發射之量測頻率範圍須符合第 5.14 節之規定。

5.6.2. 量測方法

待測物置於高 80 公分之非導體桌面（落地型產品置於地上），受測物與配件設備之電源線無須束綁，桌面上受測設備的所有電源線由桌子的後緣垂下沿旋轉桌表面接至交流插座。落地型設備的交流電源線可以方便的型態走線。桌面可 360 度旋轉，接收天線置於距待測物 3m 距離，高度可在 1 至 4 公尺間變動，以量測待測物之最大輻射電場強度。接收天線並應於水準及垂直極化方向各量測一次。

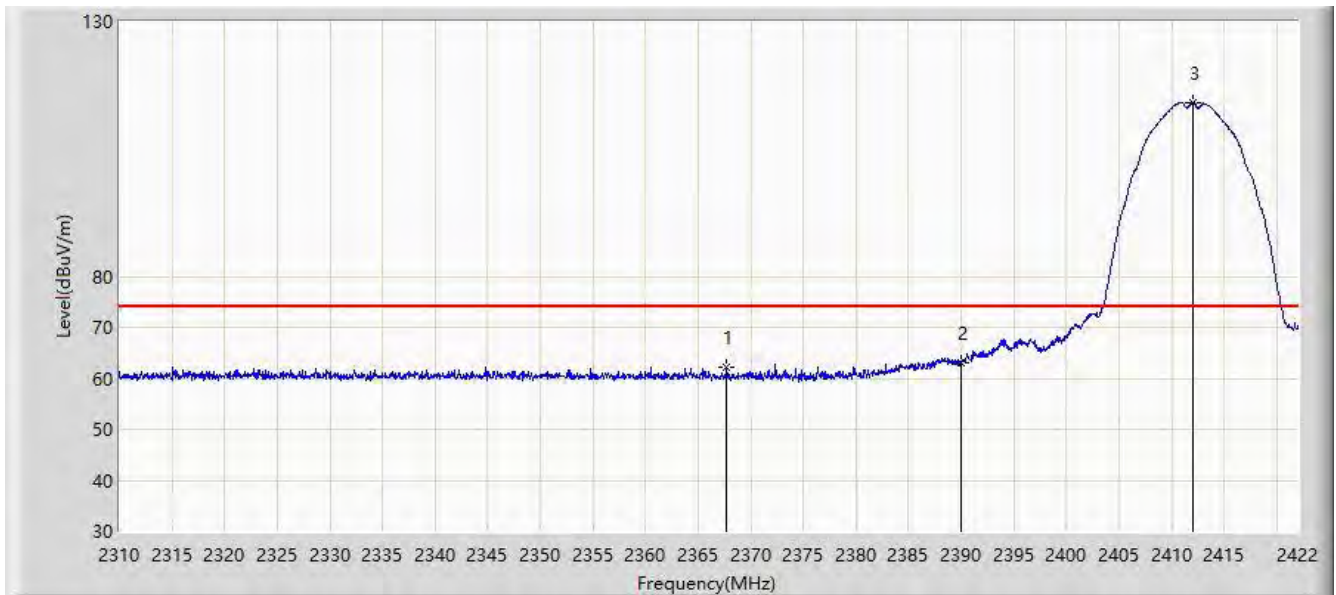
5.6.3. 測試架構圖



備註：使用頻率範圍外之任意 100 千赫雜訊，使用輻射方式測量，6 dB 頻寬使用 1MHz 遠大於 100kHz 仍可 PASS，檢附其測試數據。

5.6.4. 測試結果

Site: AC1	Time: 2020/07/13 - 16:53
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2367.680	62.276	30.078	-11.724	74.000	32.197	PK
2			2390.000	63.162	30.866	-10.838	74.000	32.296	PK
3		*	2412.032	114.143	81.751	N/A	N/A	32.392	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2020/07/13 - 17:01
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

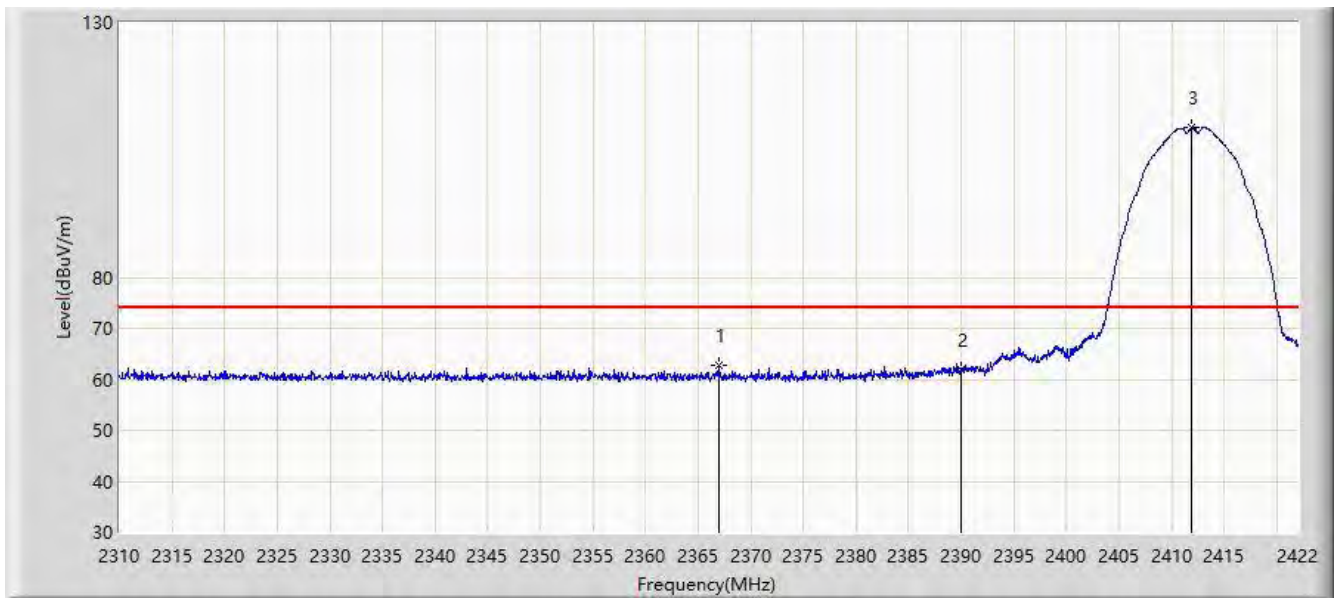


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.036	20.740	-0.964	54.000	32.296	AV
2	X	*	2411.304	110.833	78.444	N/A	N/A	32.389	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2020/07/13 - 17:03
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

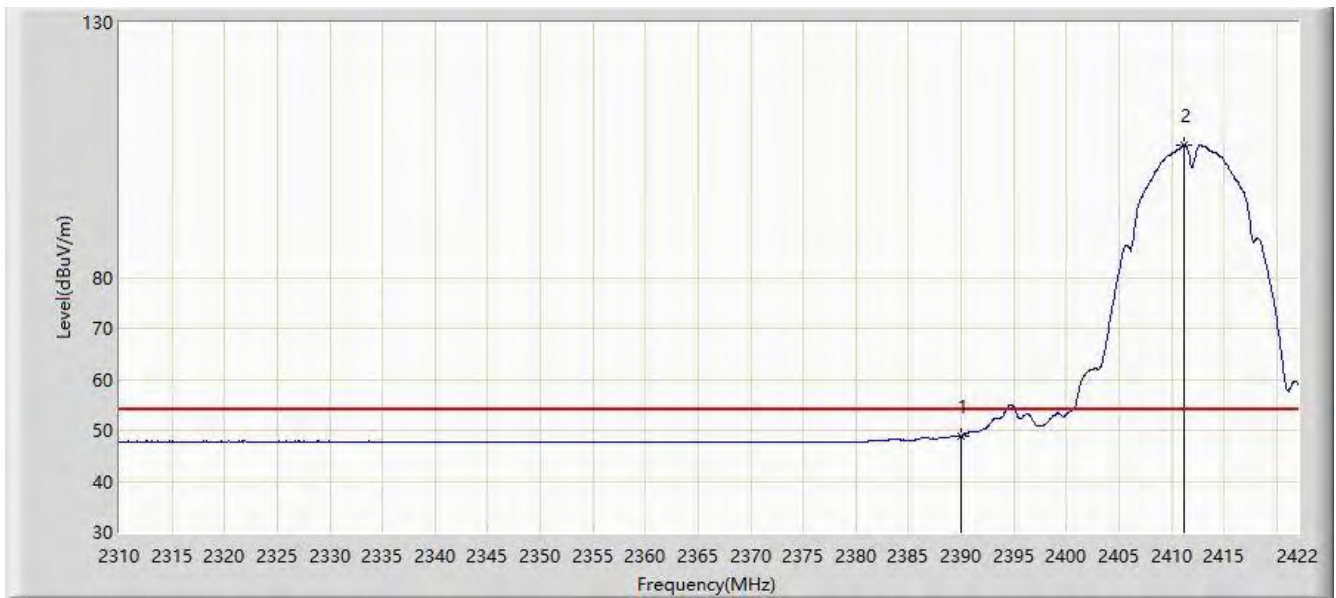


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2366.952	62.690	30.495	-11.310	74.000	32.194	PK
2			2390.000	61.753	29.457	-12.247	74.000	32.296	PK
3		*	2411.864	109.380	76.988	N/A	N/A	32.392	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2020/07/13 - 17:05
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz	

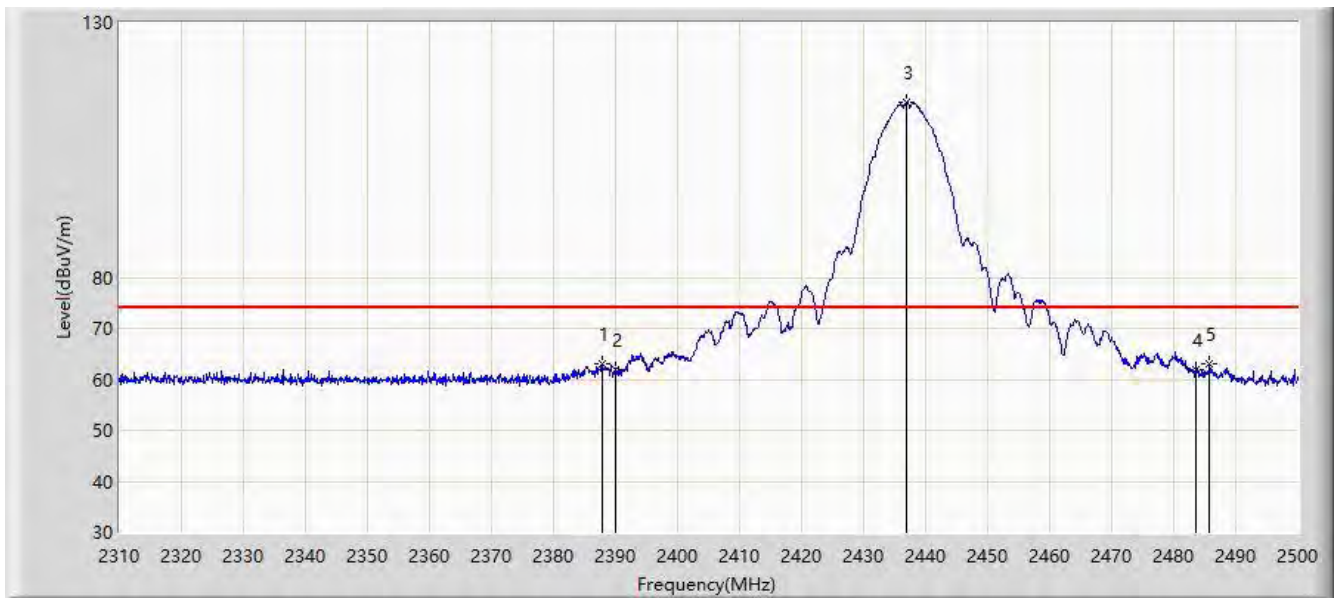


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	48.886	16.590	-5.114	54.000	32.296	AV
2		*	2411.136	106.015	73.627	N/A	N/A	32.388	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2020/07/24 - 02:08
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at channel 2437MHz	

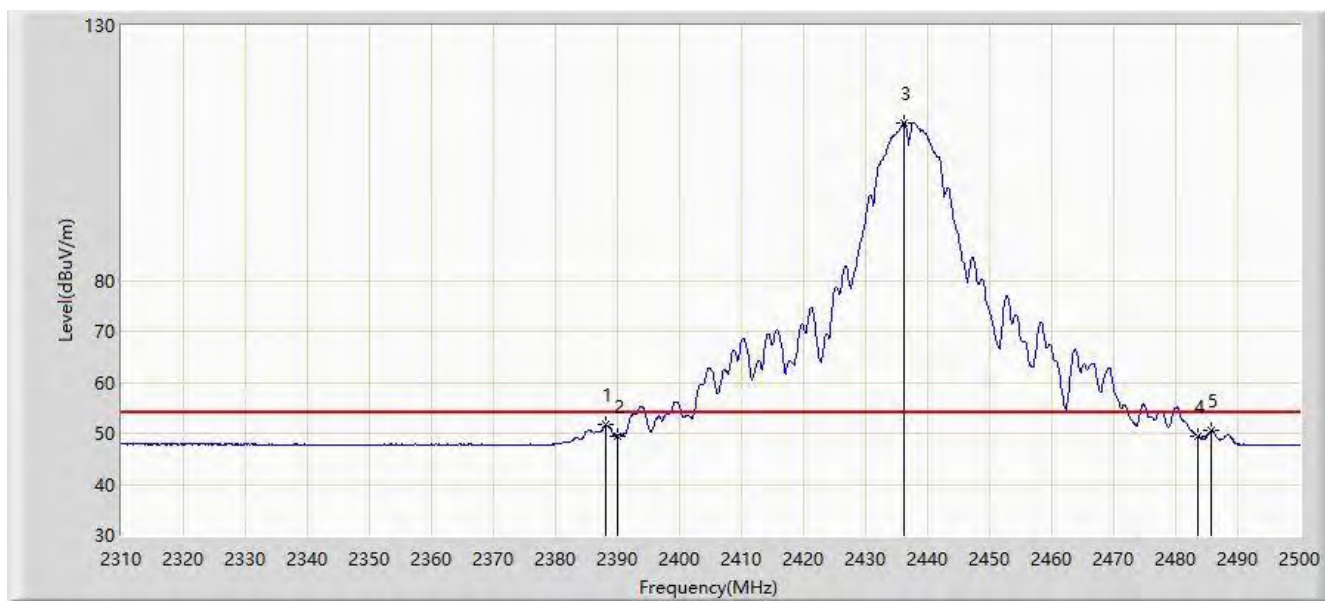


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.900	62.931	30.644	-11.069	74.000	32.287	PK
2			2390.000	62.018	29.722	-11.982	74.000	32.296	PK
3		*	2436.825	114.345	81.843	N/A	N/A	32.502	PK
4			2483.500	61.938	29.230	-12.062	74.000	32.707	PK
5			2485.750	63.066	30.349	-10.934	74.000	32.717	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2020/07/24 - 02:11
Limit: NCC LP0002_1GHz-40GHz	Engineer: Kevin Ker
Probe: BBHA 9120D (1GHz~18GHz)	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 110V/60Hz
Test Mode: Transmit by 802.11b at channel 2437MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.185	51.610	19.322	-2.390	54.000	32.288	AV
2			2390.000	49.552	17.256	-4.448	54.000	32.296	AV
3	X	*	2436.160	110.932	78.433	N/A	N/A	32.500	AV
4			2483.500	49.415	16.707	-4.585	54.000	32.707	AV
5			2485.750	50.594	17.877	-3.406	54.000	32.717	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)