

NCC

低功率射頻器材型式試驗報告

產品名稱: AX1500 Wi-Fi 6 範圍擴展器
型號: RE500X
廠牌: tp-link
申請者: 聯洲國際有限公司
申請者地址: 新北市板橋區中山路一段 156 號 4 樓
測試標準: LP0002 (109 年版)
參考法規: ANSI C63.10-2013
測試結果: 符合
接收日期: 2021.01.04
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本測試報告僅對實驗室所受測之樣品負責

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	聯洲國際有限公司
申請者地址	新北市板橋區中山路一段 156 號 4 樓
製造商	普聯技術有限公司
製造商地址	深圳市南山區深南路科技園工業廠房 24 棟南段 1 層、3-5 層、28 棟北段 1-4 層
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 Firm. 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	AX1500 Wi-Fi 6 範圍擴展器
產品型號	RE500X
待測物額定電壓	AC 100 ~ 240V/50~60Hz
無線規格	802.11b/g/n
頻率範圍	802.11b/g/n-HT20: 2412 ~ 2462MHz 802.11n-HT40: 2422 ~ 2452MHz
通道數量	802.11b/g/n-HT20: 11 802.11n-HT40: 7
調變模式	DSSS for IEEE 802.11b, OFDM for IEEE 802.11g/n
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
頻道控制	Auto

2.2. 通道清單

802.11b/g/n-HT20

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	--	--

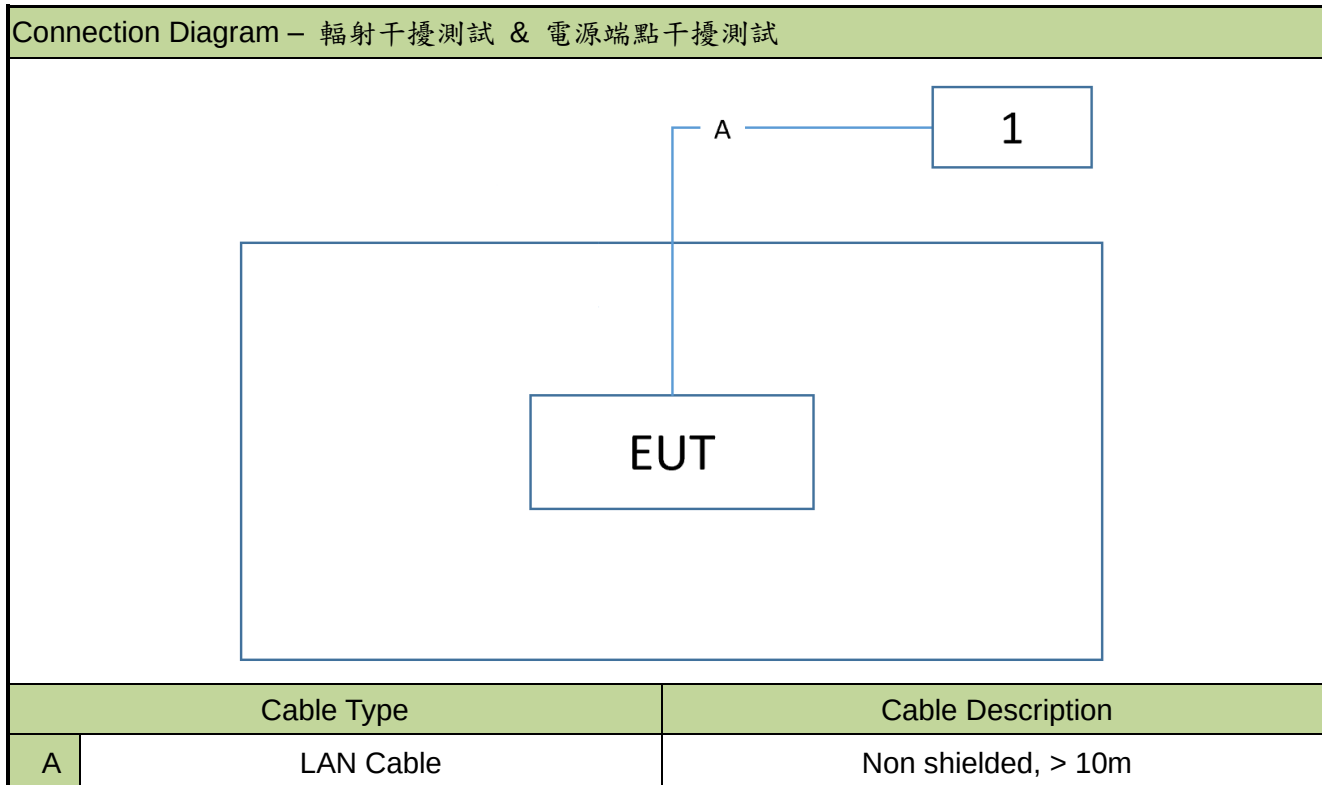
802.11n-HT40

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) (CDD mode)
Mode 2: 發射器 802.11g (6Mbps) (CDD mode)
Mode 3: 發射器 802.11n-HT20 (MCS0) (CDD mode)
Mode 4: 發射器 802.11n-HT40 (MCS0) (CDD mode)
Mode 5: 接收器 802.11n-HT20 (CDD mode)
Mode 6: Normal mode

2.4. 測試系統組合圖



2.5. 測試周邊

Product		Brand	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	E431	PF-10ZRN 13/12	Non-Shielded, 1.8m

2.6. 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.exe” program.
4.	Configure the test channel and the data rate.
5.	Start 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% ($U=2Uc(y)$): 2.53dB
電源傳導量測-通訊埠 (Conducted Emission- Impedance Stabilization Network Measurement)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 3.96dB
輻射干擾量測 (Radiated Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 3.92dB (Below 30M)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.25dB (30M~1G)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.40dB (1G~18G)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.45dB (18G~40G)
頻率誤差量測 (Frequency Error)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 78.4\text{Hz}$
傳導功率量測 (Conducted Power)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 0.84\text{dB}$
傳導干擾量測 (Conducted Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 2.65\text{ dB}$
佔用頻寬量測 (Occupied Bandwidth)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 3.3%
溫度 / 濕度 (Temp. / Humidity)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 0.82^{\circ}\text{C} / \pm 3\%$
直流電源 (DC Voltage)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 0.3\%$

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

Instrument	Brand	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2022/03/23
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2022/04/28
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2021/05/26
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00033	1 year	2021/06/07

Radiated Emissions

Instrument	Brand	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2021/10/5
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2022/05/06
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2022/04/24
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2022/04/24
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2022/04/24
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2022/04/24
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2022/03/23
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2022/03/24
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2021/10/14
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2022/7/19
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2022/6/15
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2022/6/6

Conducted Test Equipment

Instrument	Brand	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2022/4/21
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2021/10/14
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2022/07/19
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2021/06/15
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00033	1 year	2021/06/07

Software	Version	Function
e3	9.160520a	EMI Test Software

5. 測試結果

產品名稱 AX1500 Wi-Fi 6 範圍擴展器
型號 RE500X

章節	量測項目	限制值	測試結果	測試數據
3.3	電源傳導	低功率射頻器材技術規範 3.3 節	符合	第 5.1 章節
4.10.1.2	峰值傳導輸出功率	$\leq 30.00\text{dBm}$	符合	第 5.2 章節
4.10.1.3	天線之要求	低功率射頻器材技術規範 4.10.1.3 節	符合	第 5.3 章節
4.10.1.5	帶外發射限制	$\leq 30\text{dBc(Average)}$	符合	第 5.4 章節
3.6	輻射電場強度	低功率射頻器材技術規範 3.6 節	符合	第 5.5 章節
3.5	頻帶邊緣	$\leq 74\text{dBuV/m(Peak)}$ $\leq 54\text{dBuV/m(Average)}$	符合	第 5.6 章節
4.10.1.6(2)(A)	佔用頻寬	$\geq 500\text{kHz}$	符合	第 5.7 章節
4.10.1.6(2)(B)	功率頻譜密度	$\leq 8\text{dBm}$	符合	第 5.8 章節

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器材技術規範之第 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 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

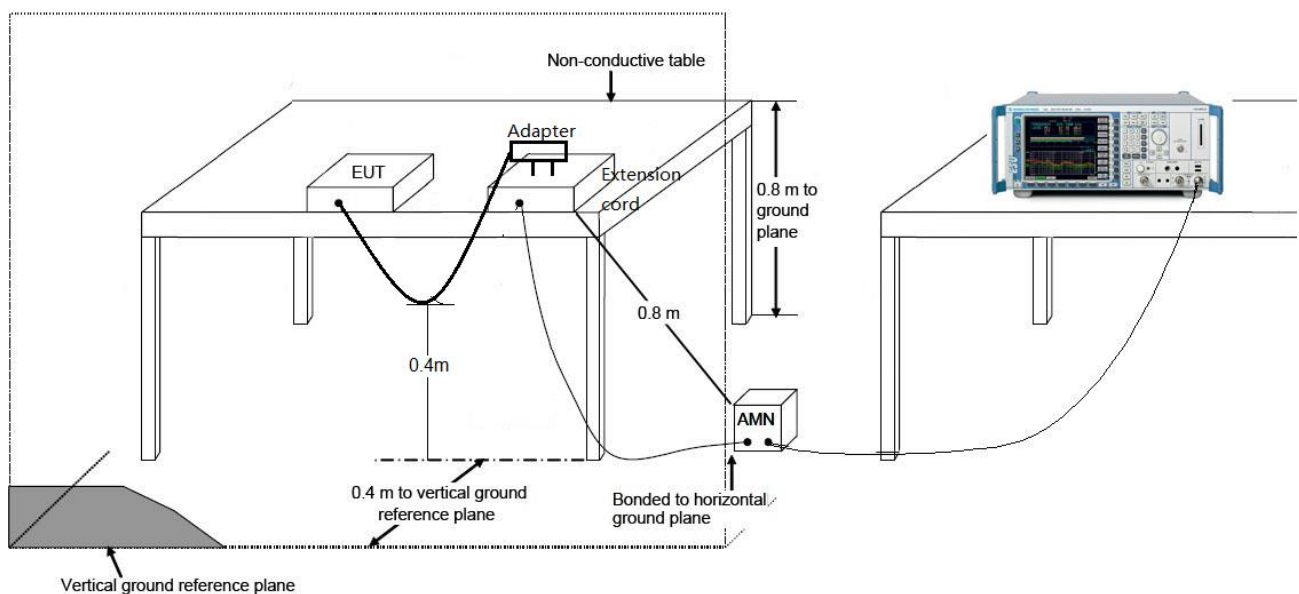
註:隨頻率之對數遞減

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。

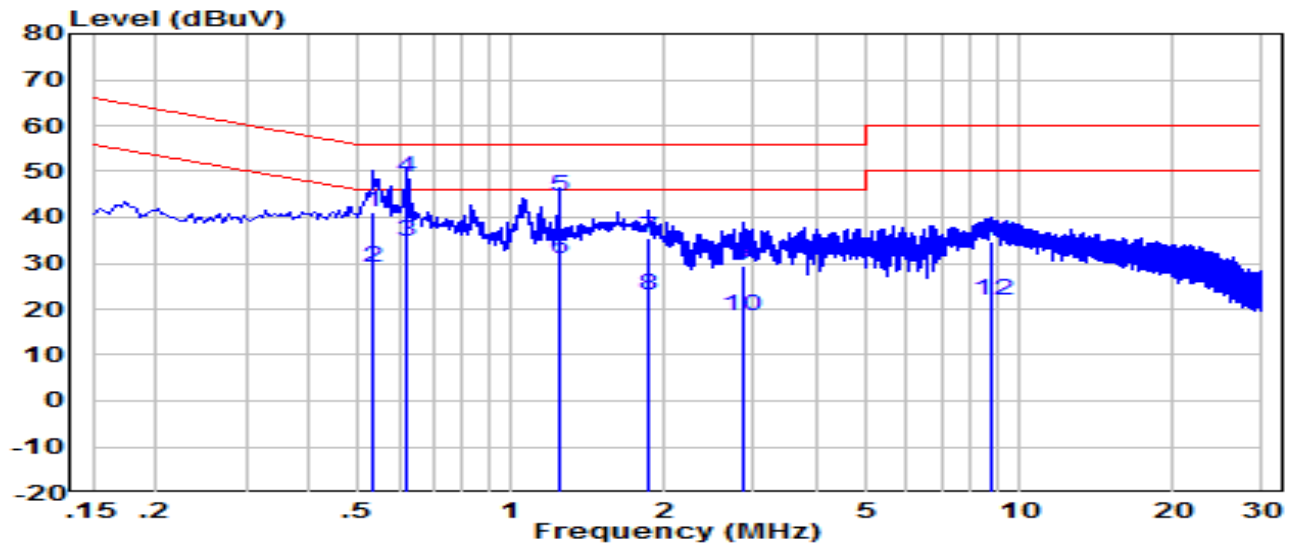
備 註: 經初測驗證過，電源端點干擾測試對測試頻道數並無差異，因此檢附其中一個測試頻道之測試數。

5.1.3. 測試架構圖



5.1.4. 電源端點測試結果

EUT	AX1500 WI-FI 6 範圍擴展器	Date of Test	2021-05-18
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	20.4°C /40.5%
Polarity	Line1	Site / Test Engineer	SR2 / Eric Lin
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

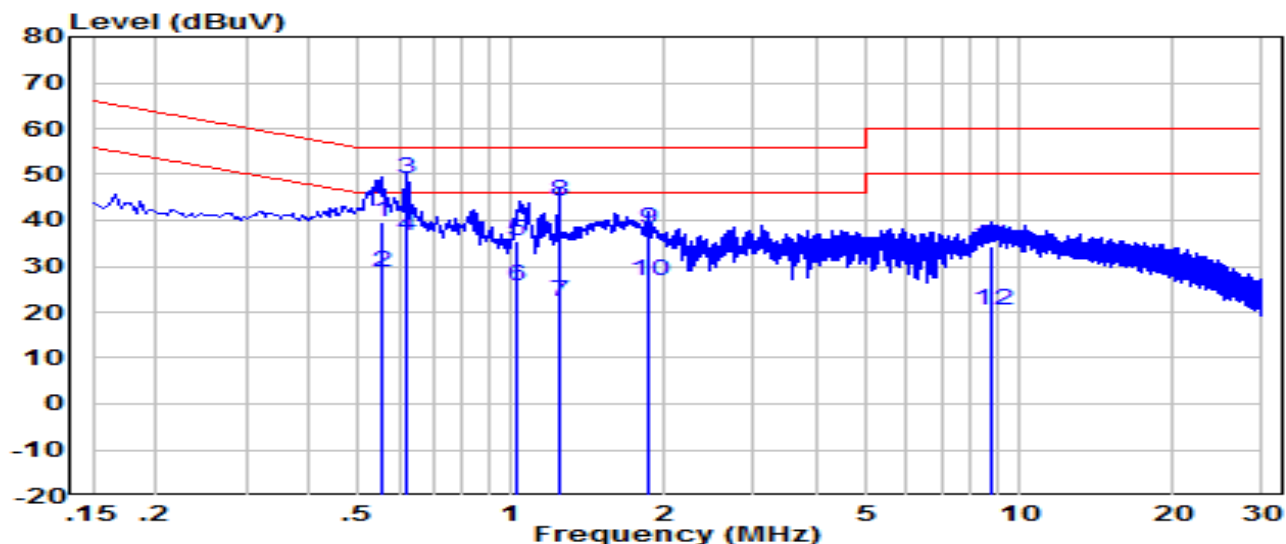


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.534	31.45	9.65	41.10	-14.90	56.00	QP
2	0.534	19.35	9.65	29.00	-17.00	46.00	Average
3	0.622	25.05	9.66	34.72	-21.28	56.00	QP
4	*	0.622	9.66	48.52	-7.48	56.00	Average
5	1.240	34.75	9.70	44.45	-11.55	56.00	QP
6	1.240	21.15	9.70	30.85	-15.15	46.00	Average
7	1.870	25.64	9.72	35.36	-20.64	56.00	QP
8	1.870	13.14	9.72	22.86	-33.14	56.00	Average
9	2.840	19.76	9.73	29.49	-26.51	56.00	QP
10	2.840	8.66	9.73	18.39	-27.61	46.00	Average
11	8.820	24.84	9.88	34.72	-25.28	60.00	QP
12	8.820	12.04	9.88	21.92	-28.08	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AX1500 WI-FI 6 範圍擴展器	Date of Test	2021-05-18
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	20.4°C /40.5%
Polarity	Neutral	Site / Test Engineer	SR2 / Eric Lin
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

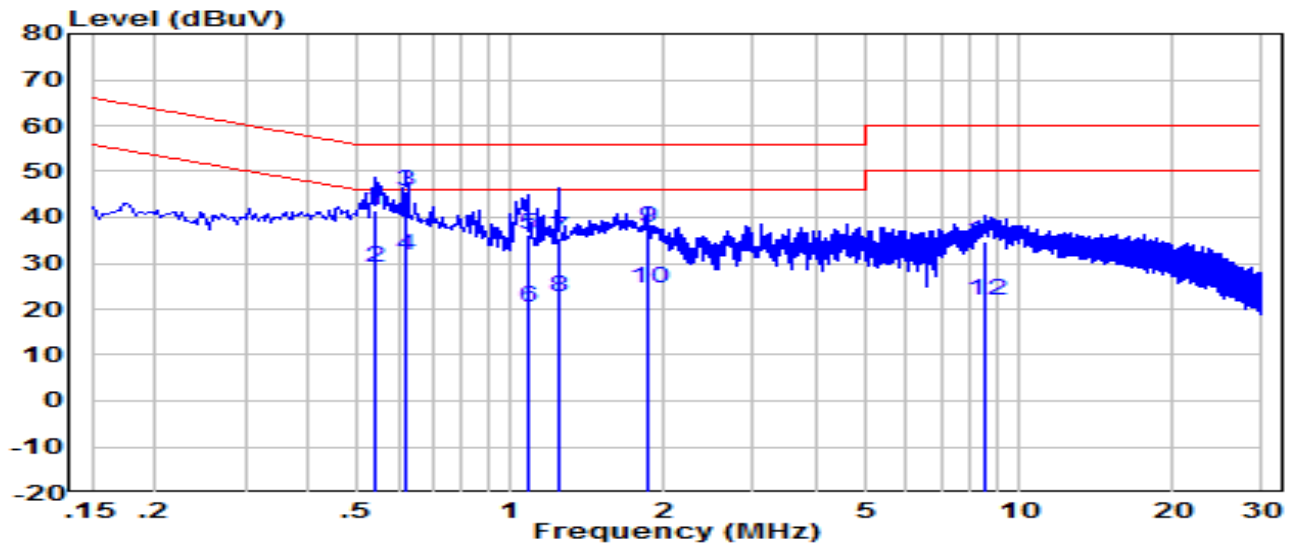


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.558	30.04	9.66	39.70	-16.30	56.00	QP
2	0.558	18.84	9.66	28.50	-17.50	46.00	Average
3	* 0.622	39.25	9.67	48.92	-7.08	56.00	QP
4	0.622	27.05	9.67	36.72	-9.28	46.00	Average
5	1.030	25.64	9.71	35.35	-20.65	56.00	QP
6	1.030	16.04	9.71	25.75	-20.25	46.00	Average
7	1.240	12.49	9.71	22.20	-33.80	56.00	QP
8	1.240	34.44	9.71	44.15	-11.85	56.00	Average
9	1.860	28.34	9.72	38.06	-17.94	56.00	QP
10	1.860	17.04	9.72	26.76	-19.24	46.00	Average
11	8.790	24.43	9.89	34.32	-25.68	60.00	QP
12	8.790	10.53	9.89	20.42	-29.58	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AX1500 WI-FI 6 範圍擴展器	Date of Test	2021-05-19
Factor	CE_ENV216-L1	Temp. / Humidity	22.9°C /49.2%
Polarity	Line1	Site / Test Engineer	SR2 / Eric Lin
Test Mode	Normal	Test Voltage	110V/60Hz

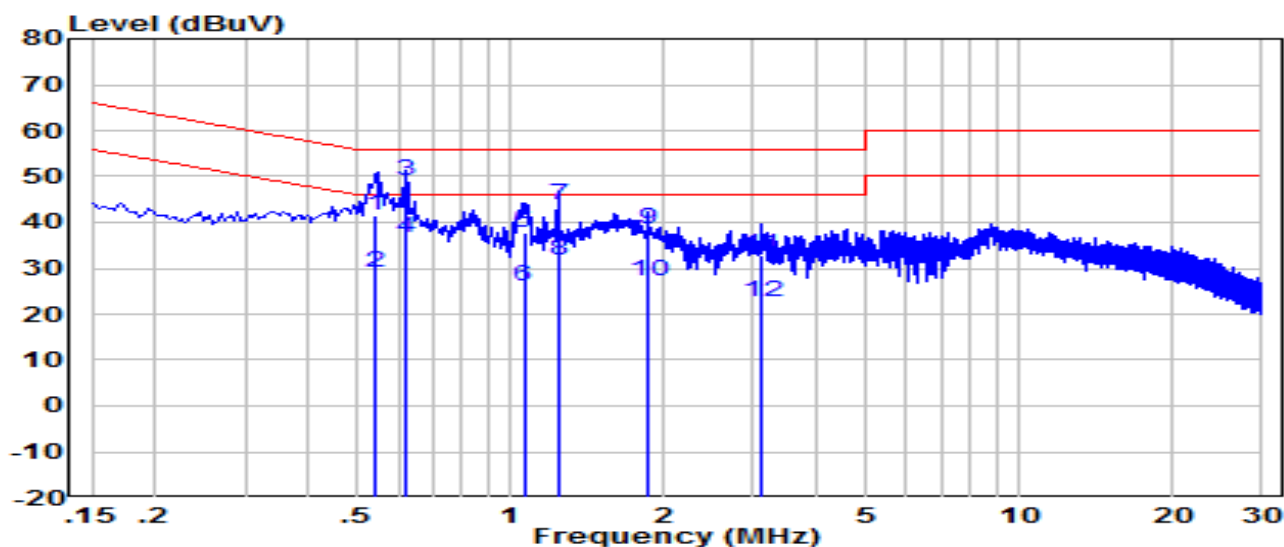


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.542	31.75	9.65	41.40	-14.60	56.00	QP
2	0.542	19.55	9.65	29.20	-16.80	46.00	Average
3	* 0.624	35.96	9.66	45.62	-10.38	56.00	QP
4	0.625	22.16	9.66	31.82	-14.18	46.00	Average
5	1.080	26.35	9.70	36.05	-19.95	56.00	QP
6	1.080	10.75	9.70	20.45	-25.55	46.00	Average
7	1.250	25.65	9.70	35.35	-20.65	56.00	QP
8	1.250	12.95	9.70	22.65	-23.35	46.00	Average
9	1.860	28.04	9.72	37.76	-18.24	56.00	QP
10	1.860	14.94	9.72	24.66	-21.34	46.00	Average
11	8.550	24.74	9.87	34.61	-25.39	60.00	QP
12	8.550	11.94	9.87	21.81	-28.19	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	AX1500 WI-FI 6 範圍擴展器	Date of Test	2021-05-19
Factor	CE_ENV216-N	Temp. / Humidity	22.9°C /49.2%
Polarity	Neutral	Site / Test Engineer	SR2 / Eric Lin
Test Mode	Normal	Test Voltage	110V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	0.542	31.83	9.66	41.49	-14.51	56.00	QP
2	0.542	19.53	9.66	29.19	-16.81	46.00	Average
3	* 0.622	39.33	9.67	49.01	-6.99	56.00	QP
4	0.622	27.03	9.67	36.71	-9.29	46.00	Average
5	1.060	28.13	9.71	37.84	-18.16	56.00	QP
6	1.060	16.33	9.71	26.04	-19.96	46.00	Average
7	1.240	34.23	9.71	43.94	-12.06	56.00	QP
8	1.240	22.13	9.71	31.84	-14.16	46.00	Average
9	1.860	28.64	9.72	38.36	-17.64	56.00	QP
10	1.860	17.34	9.72	27.06	-18.94	46.00	Average
11	3.100	23.25	9.74	32.99	-23.01	56.00	QP
12	3.100	12.95	9.74	22.69	-23.31	46.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

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器材技術規範之第 4.10.1.2(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器材技術規範之第 4.10.1.3 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6dBi，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 4.10.1.2 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。

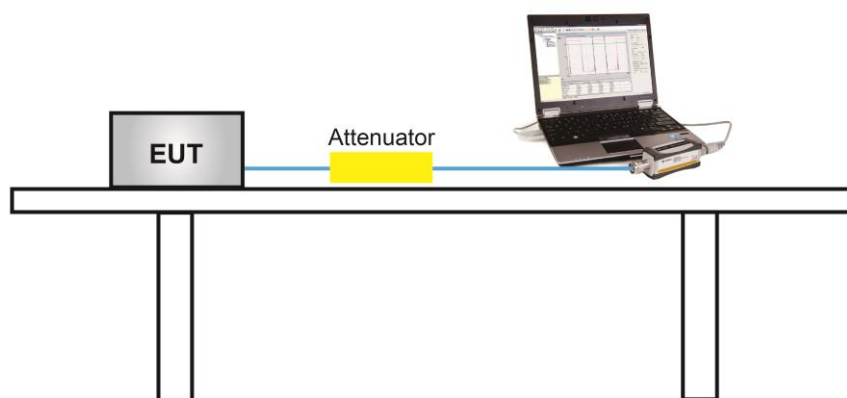
同時發射多向波束於相同或不同頻道者，其每一波束功率應符合(a)之功率限制值。如發射波束有重疊現象，功率應降低，以確保總和傳導輸出功率符合(a)之限制值。同時發射的所有波束總和傳導輸出功率不大於(a) 總和傳導輸出功率限制值加 8 dB。方向性增益值計算同(a)。

(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 6dB 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

待測物名稱	AX1500 Wi-Fi 6 範圍擴展器	溫度	22 ~ 25°C
測試工程師	Eric Lin	濕度	46 ~ 56%
測試場地	SR2	測試日期	2021/01/05 ~ 2021/05/15

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
802.11b	1Mbps	01	2412	20.34	--	20.34	≤ 30.00	Pass
802.11b	1Mbps	02	2417	20.61	--	20.61	≤ 30.00	Pass
802.11b	1Mbps	03	2422	22.13	--	22.13	≤ 30.00	Pass
802.11b	1Mbps	06	2437	23.12	--	23.12	≤ 30.00	Pass
802.11b	1Mbps	08	2447	22.21	--	22.21	≤ 30.00	Pass
802.11b	1Mbps	09	2452	21.54	--	21.54	≤ 30.00	Pass
802.11b	1Mbps	10	2457	20.92	--	20.92	≤ 30.00	Pass
802.11b	1Mbps	11	2462	19.77	--	19.77	≤ 30.00	Pass
802.11g	6Mbps	01	2412	14.14	14.03	17.10	≤ 30.00	Pass
802.11g	6Mbps	02	2417	15.38	15.33	18.37	≤ 30.00	Pass
802.11g	6Mbps	03	2422	16.72	16.50	19.62	≤ 30.00	Pass
802.11g	6Mbps	04	2427	17.24	17.14	20.20	≤ 30.00	Pass
802.11g	6Mbps	05	2432	18.23	18.34	21.30	≤ 30.00	Pass
802.11g	6Mbps	06	2437	19.73	19.86	22.81	≤ 30.00	Pass
802.11g	6Mbps	08	2447	18.84	19.03	21.95	≤ 30.00	Pass
802.11g	6Mbps	09	2452	16.78	16.83	19.82	≤ 30.00	Pass
802.11g	6Mbps	10	2457	15.43	15.70	18.58	≤ 30.00	Pass
802.11g	6Mbps	11	2462	14.41	14.47	17.45	≤ 30.00	Pass

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
802.11n-HT20	MCS0	01	2412	13.43	13.58	16.52	≤ 30.00	Pass
802.11n-HT20	MCS0	02	2417	15.02	15.36	18.20	≤ 30.00	Pass
802.11n-HT20	MCS0	03	2422	16.32	16.48	19.41	≤ 30.00	Pass
802.11n-HT20	MCS0	04	2427	17.32	17.53	20.44	≤ 30.00	Pass
802.11n-HT20	MCS0	05	2432	18.01	18.22	21.13	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	19.81	19.90	22.87	≤ 30.00	Pass
802.11n-HT20	MCS0	07	2442	18.73	19.12	21.94	≤ 30.00	Pass
802.11n-HT20	MCS0	08	2447	17.50	17.71	20.62	≤ 30.00	Pass
802.11n-HT20	MCS0	09	2452	16.52	16.77	19.66	≤ 30.00	Pass
802.11n-HT20	MCS0	10	2457	15.01	15.67	18.36	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	14.14	14.19	17.18	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	10.38	11.54	14.01	≤ 30.00	Pass
802.11n-HT40	MCS0	04	2427	11.24	11.34	14.30	≤ 30.00	Pass
802.11n-HT40	MCS0	05	2432	12.13	12.21	15.18	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	13.88	13.97	16.94	≤ 30.00	Pass
802.11n-HT40	MCS0	07	2442	13.33	13.54	16.45	≤ 30.00	Pass
802.11n-HT40	MCS0	08	2447	12.13	12.24	15.20	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	12.07	13.18	15.67	≤ 30.00	Pass

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

5.3. 天線之要求

5.3.1. 適用標準

低功率射頻器材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

此AX1500 Wi-Fi 6 範圍擴展器其天線為固定式PCB Antenna (Brand: TP-LINK, M/N: RE500X(US) 1.0) (檢附天線規格書)

Antenna Type	Frequency Band (MHz)	Mode	Tx Paths	Max Antenna Gain (dBi)	Beamforming Directional Gain (dBi)	CDD Directional Gain (dBi)	
						For Power	For PSD
PCB Antenna	2412 ~ 2462	11b	1	1	--	--	--
	2412 ~ 2462	11g/n	2	1	--	1	4.01
	5150 ~ 5850	11a/n/ac/ax	2	2	5.01	2	5.01

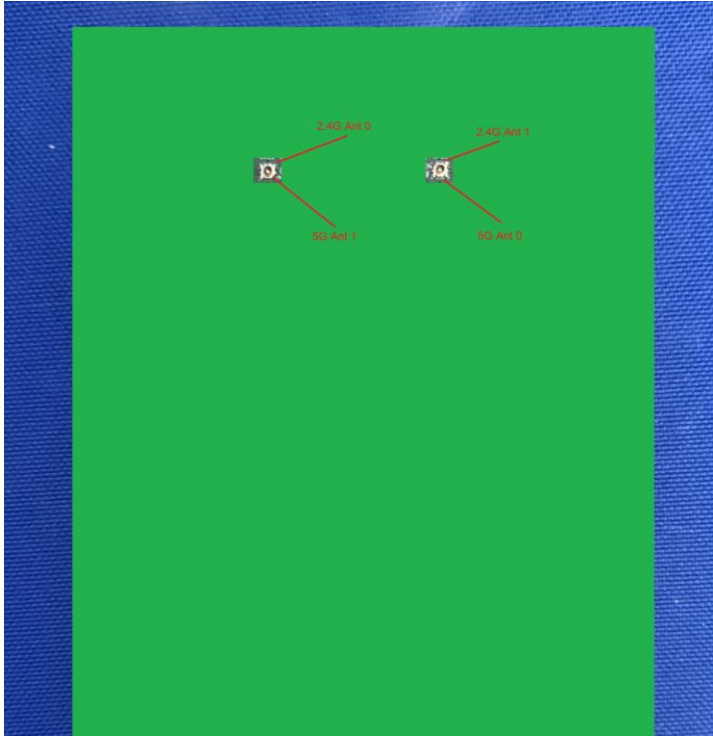
Note 1: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

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 = $10 \log (N_{ANT} / N_{SS})$ dB;
- For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB for $N_{ANT} \leq 4$;

Note 2: The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac, not include 802.11a/b/g. BF Directional gain = $G_{ANT} + 10 \log (N_{ANT})$.

Note 3: All information declared by manufacturer.

Antenna RF Port		
Software Control Port	2.4GHz & 5GHz RF Port	
	Ant 0	Ant 1
		

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器材技術規範之第 4.10.1.5 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器材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器材技術規範 4.10.1(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 3.5 節禁用頻段之輻射發射，應符合第 3.6 節之規定。

依據國家通訊傳播委員會低功率射頻器材技術規範之第 3.6 節，低功率射頻器材，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(f) (MHz)	電場強度 (微伏特/公尺, $\mu\text{V/m}$)	測距 (公尺)
$0.009 \leq f \leq 0.490$	$2400/f(\text{kHz})$	300
$0.490 < f \leq 1.705$	$24000/f(\text{kHz})$	30
$1.705 < f < 30$	30	30
$30 \leq f \leq 88$	100	3
$88 < f \leq 216$	150	3
$216 < f \leq 960$	200	3
$960 < f$	500	3

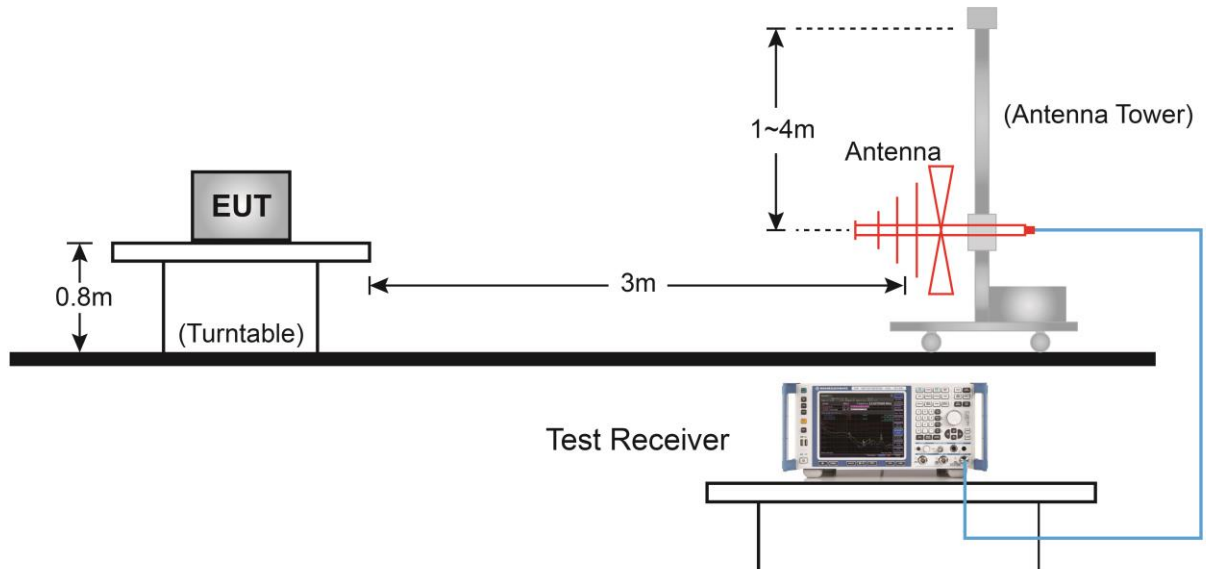
上表規定之電場強度，發射頻率在 9 kHz~90 kHz、110 kHz~490 kHz 及 1000MHz 以上者，其量測應以平均值檢波器為基準，且須符合低功率射頻器材技術規範第 6.14.節之規定；其他發射頻率，應以 CISPR 準峰值(quasi-peak) 檢波器測量；非以上表所指定之距離測量時，應符合第 6.5 節之規定，而輻射發射之量測頻率範圍須符合低功率射頻器材技術規範第 6.12 節之規定。

5.4.2. 量測方法

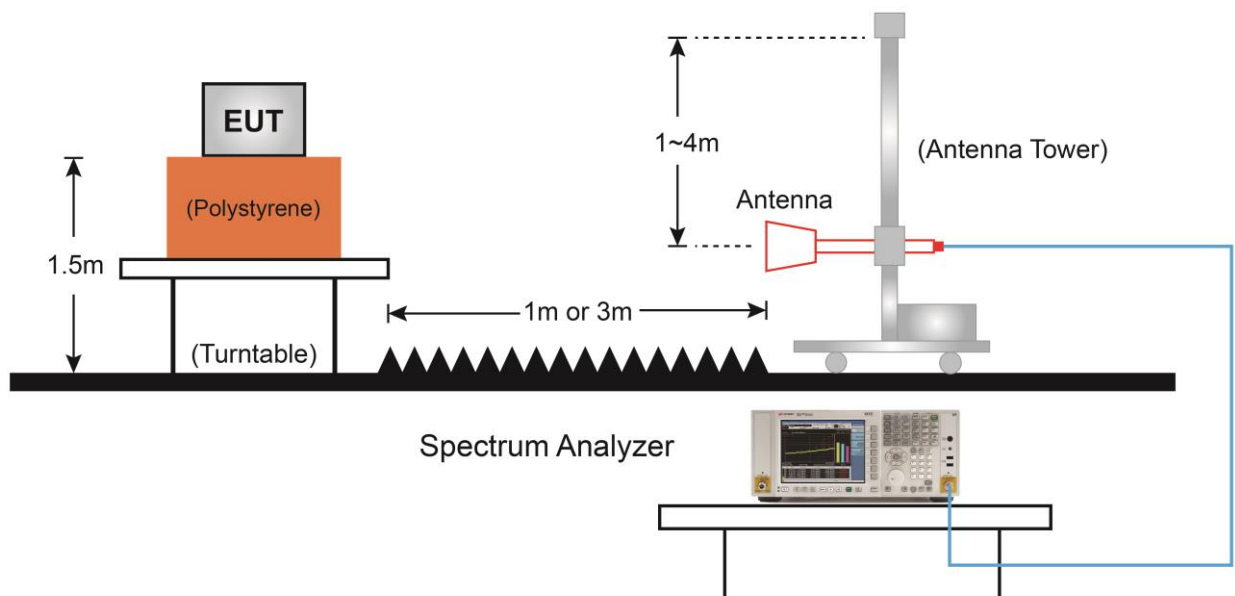
低頻待測物置於高 80 公分之非導體桌面（落地型產品置於地上），高頻待測物置於高 150 公分之非導體桌面，受測物與配件設備之電源線無須束綁，桌面上受測設備的所有電源線由桌子的後緣垂下沿旋轉桌表面接至交流插座。落地型設備的交流電源線可以方便的型態走線。桌面可 360 度旋轉，接收天線置於距待測物 3m 距離，高度可在 1 至 4 公尺間變動，以量測待測物之最大輻射電場強度。接收天線並應於水準及垂直極化方向各量測一次。

5.4.3. 測試架構圖

Below 1GHz Test Setup:

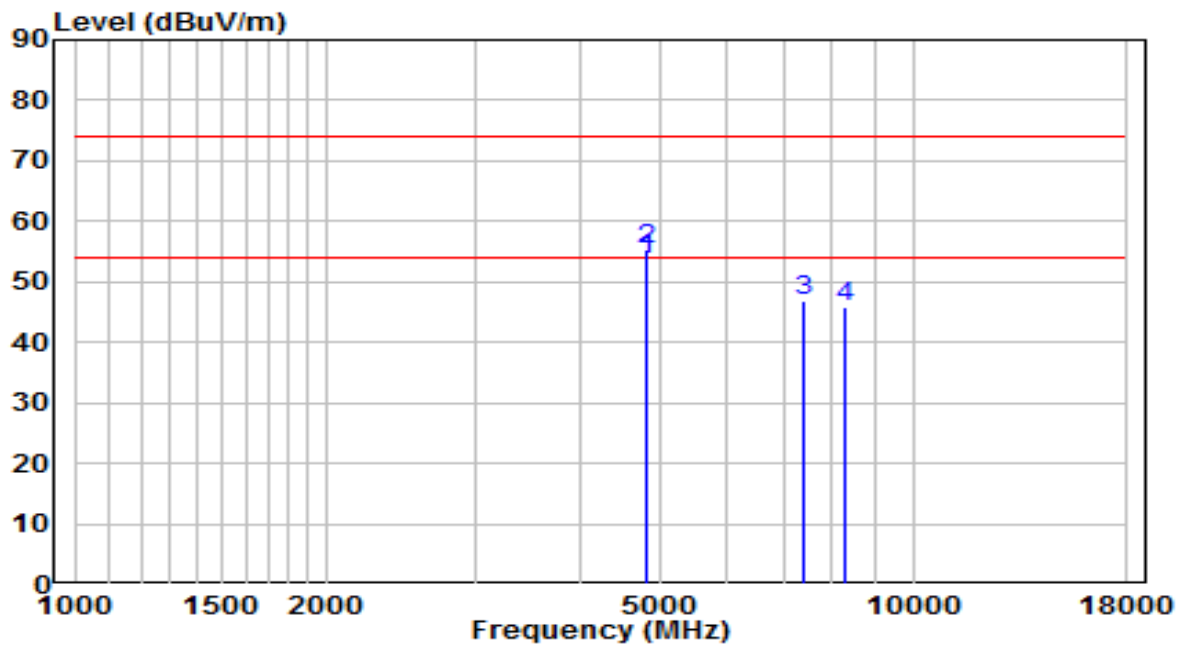


Above 1GHz Test Setup:



5.4.4. 輻射干擾測試結果

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

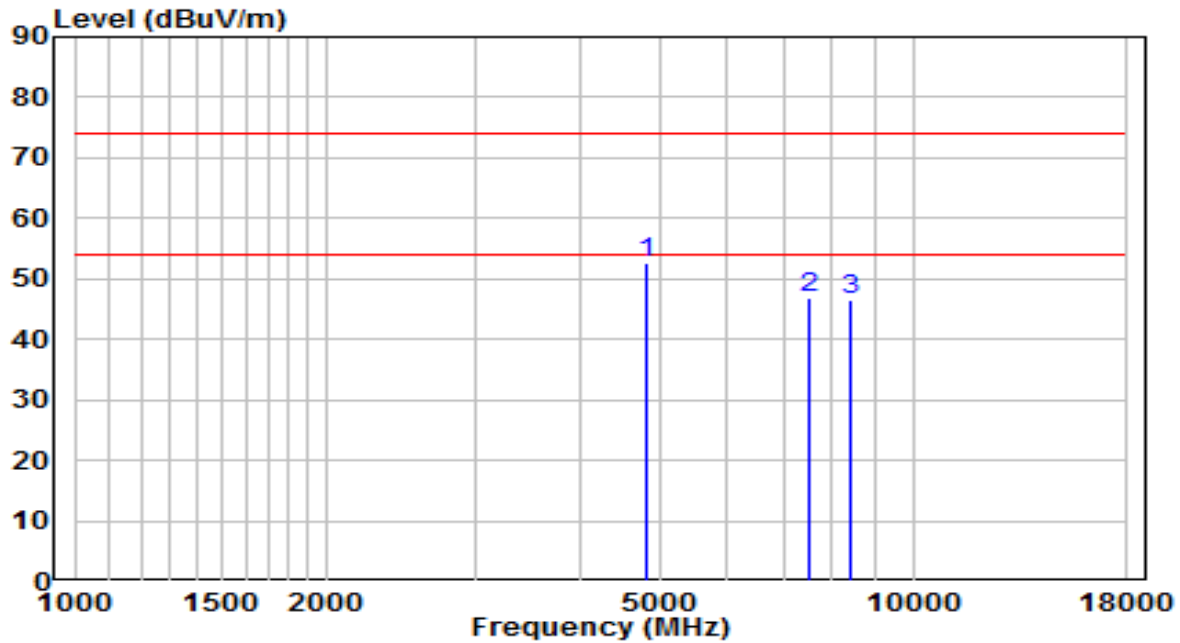


No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	*	4824.000	50.44	3.33	53.77	-0.23	54.00	AV
2		4824.000	51.89	3.33	55.22	-18.78	74.00	PK
3		7426.000	35.31	11.51	46.82	-27.18	74.00	PK
4		8310.000	33.45	12.48	45.94	-28.06	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

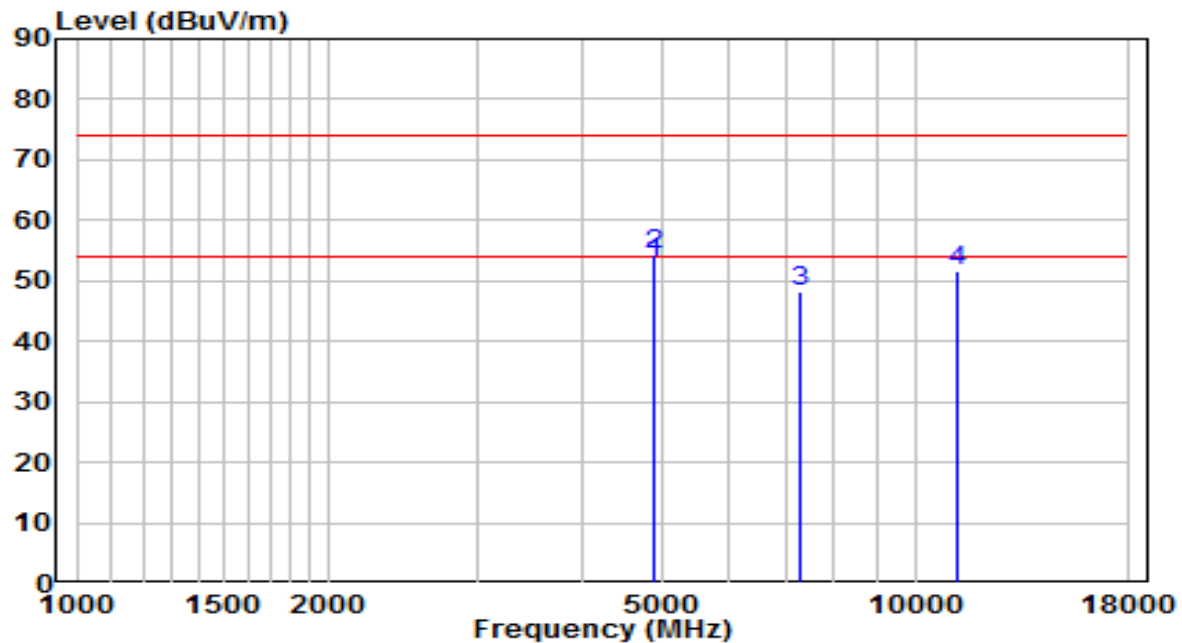


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4825.000	49.27	3.33	52.60	-21.40	74.00	PK
2		7502.500	35.03	11.72	46.75	-27.25	74.00	PK
3		8412.000	34.23	12.47	46.70	-27.30	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	110V/60Hz

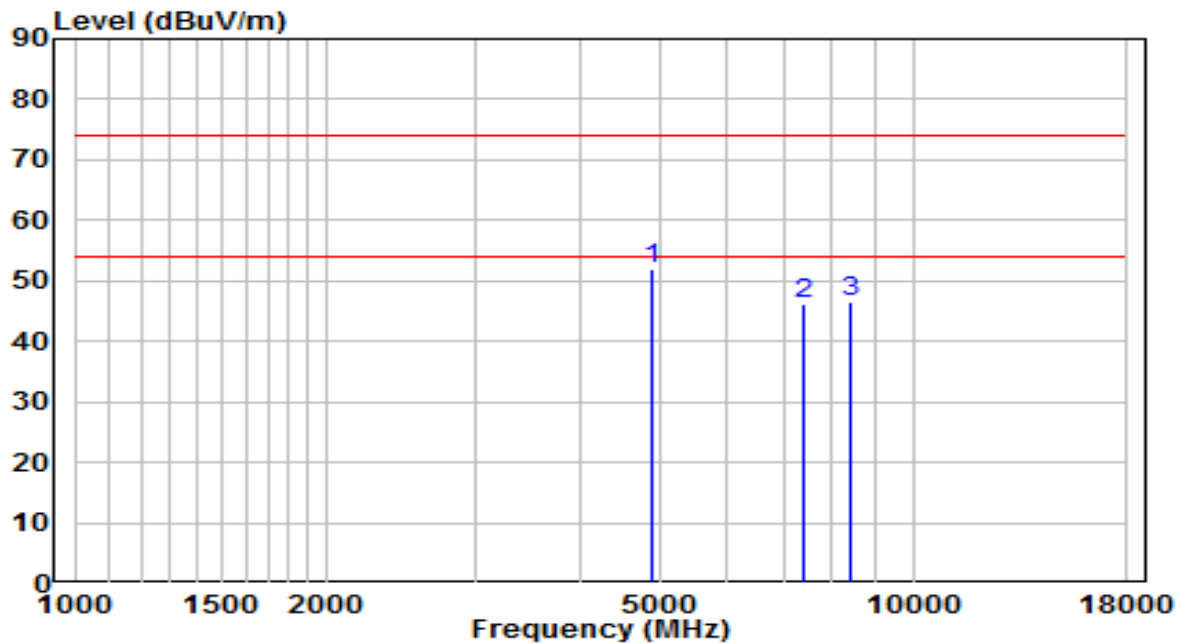


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4873.995	49.42	3.45	52.86	-1.14	54.00	Av
2		4876.000	50.86	3.45	54.31	-19.69	74.00	PK
3		7315.500	37.08	11.19	48.28	-25.72	74.00	PK
4		11259.500	33.46	18.13	51.59	-22.41	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	110V/60Hz

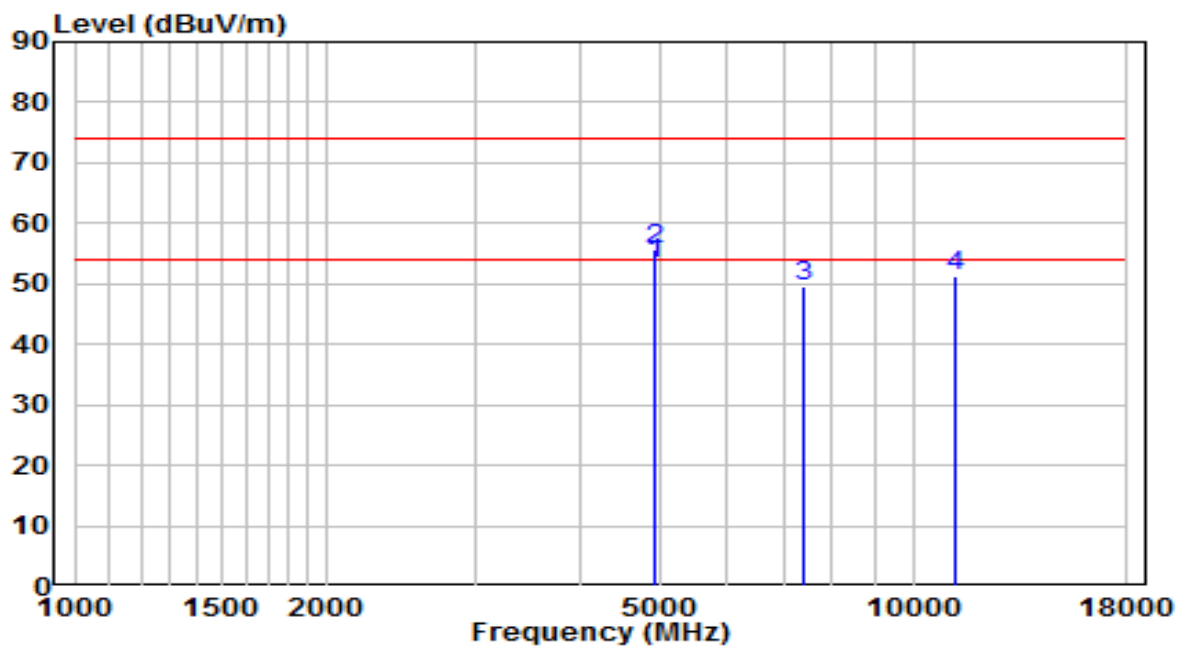


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4876.000	48.55	3.45	52.01	-21.99	74.00	PK
2		7417.500	34.80	11.48	46.28	-27.72	74.00	PK
3		8412.000	34.08	12.47	46.54	-27.46	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	110V/60Hz

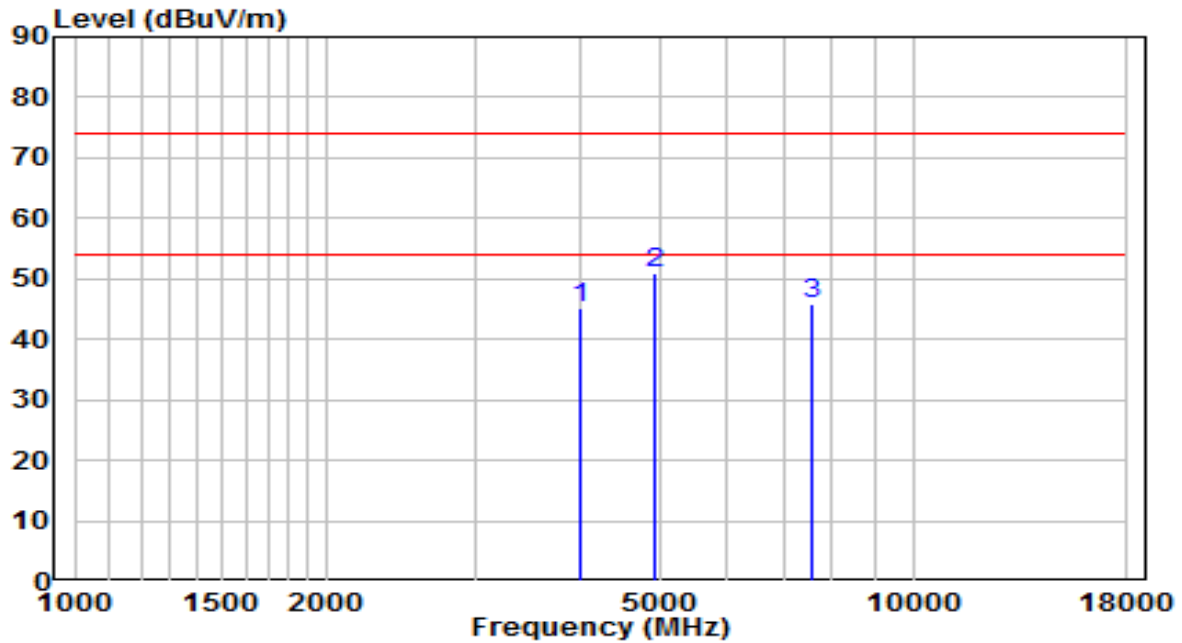


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4924.010	49.65	3.57	53.21	-0.79	54.00	AV
2		4927.000	52.02	3.57	55.59	-18.41	74.00	PK
3		7383.500	38.34	11.39	49.73	-24.27	74.00	PK
4		11191.500	33.34	18.04	51.38	-22.62	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	110V/60Hz

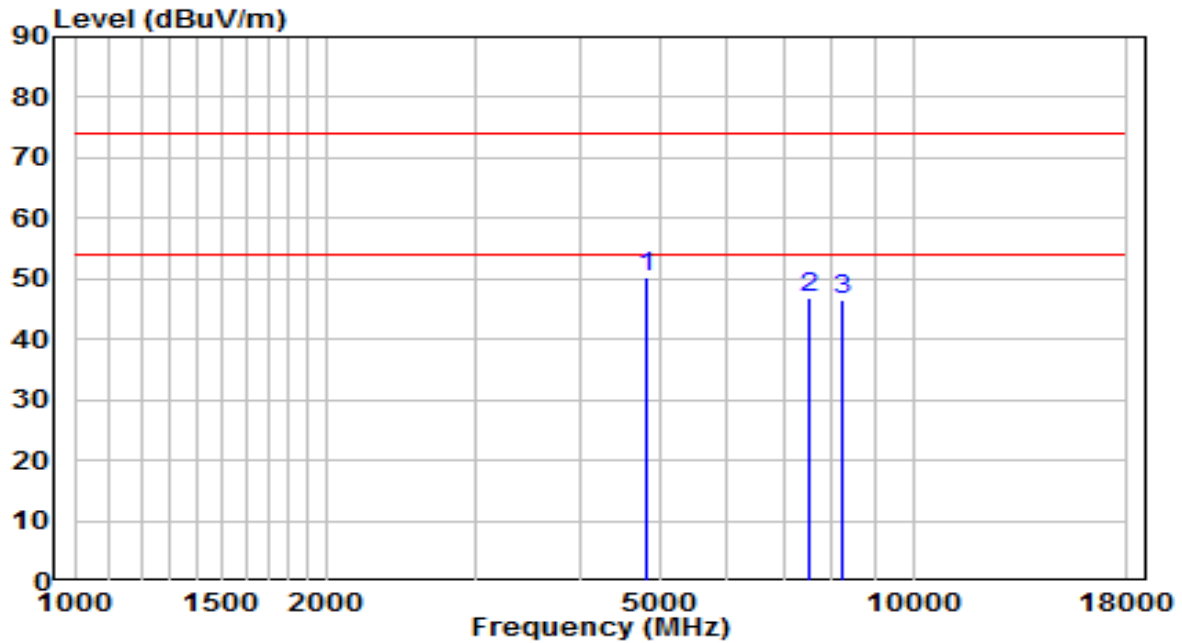


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4000.500	44.23	0.88	45.11	-28.89	74.00	PK
2	* 4927.000	47.34	3.57	50.92	-23.08	74.00	PK
3	7553.500	34.06	11.80	45.86	-28.14	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	110V/60Hz

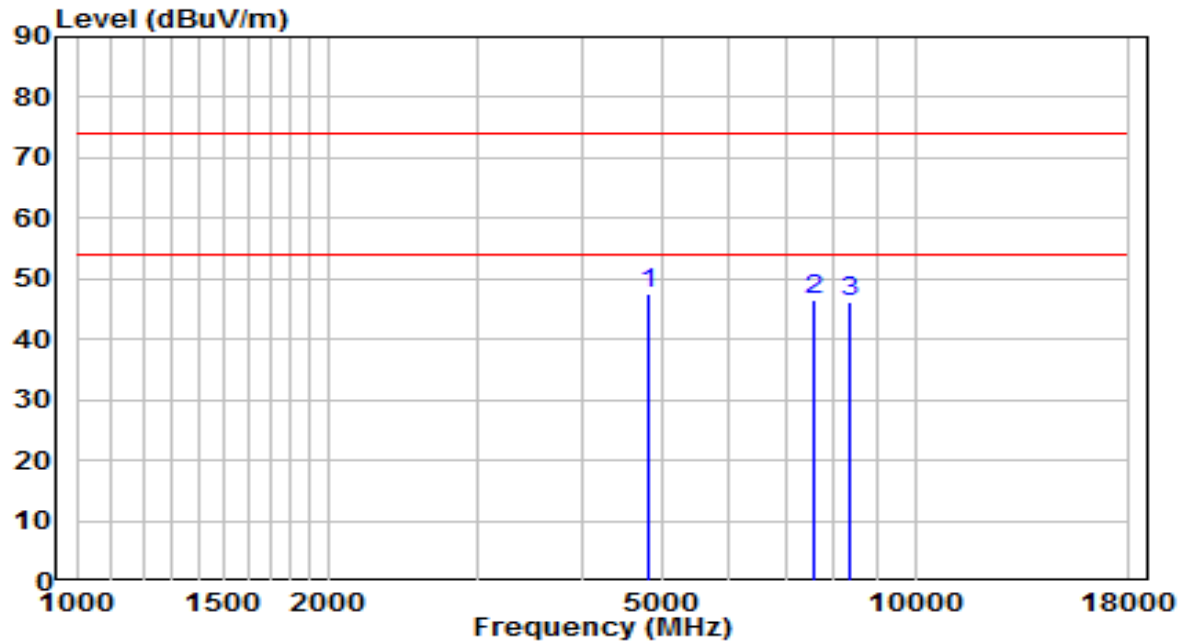


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4825.000	47.10	3.33	50.43	-23.57	74.00	PK
2		7502.500	35.11	11.72	46.83	-27.17	74.00	PK
3		8250.500	34.00	12.49	46.50	-27.50	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	110V/60Hz

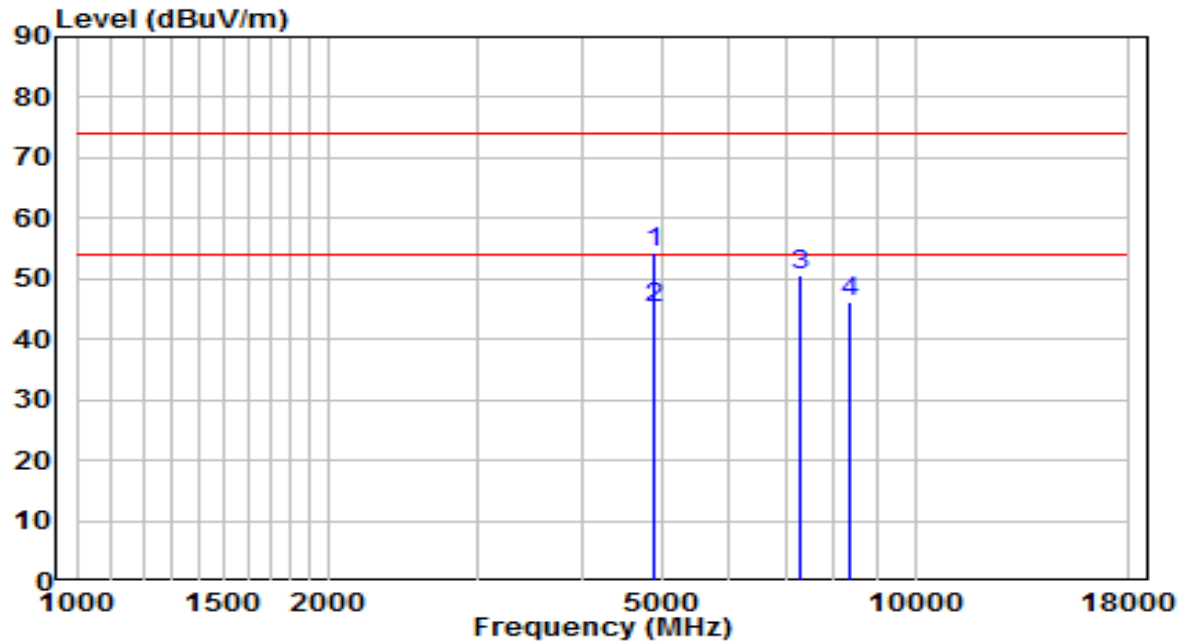


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4825.000	44.15	3.33	47.48	-26.52	74.00	PK
2		7587.500	34.82	11.86	46.68	-27.32	74.00	PK
3		8327.000	33.64	12.48	46.12	-27.88	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	110V/60Hz

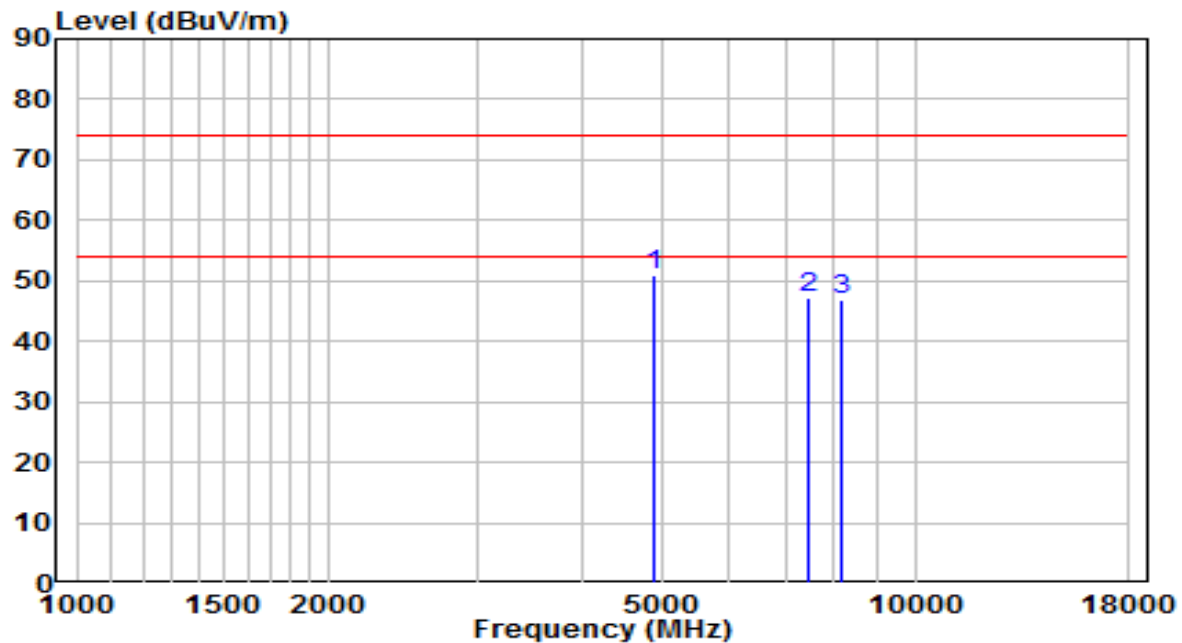


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4876.000	50.88	3.45	54.34	-19.66	74.00	PK
2	* 4876.004	41.59	3.45	45.05	-8.95	54.00	Average
3	7307.000	39.59	11.17	50.76	-23.24	74.00	PK
4	8352.500	33.74	12.48	46.22	-27.78	74.00	PK

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	110V/60Hz

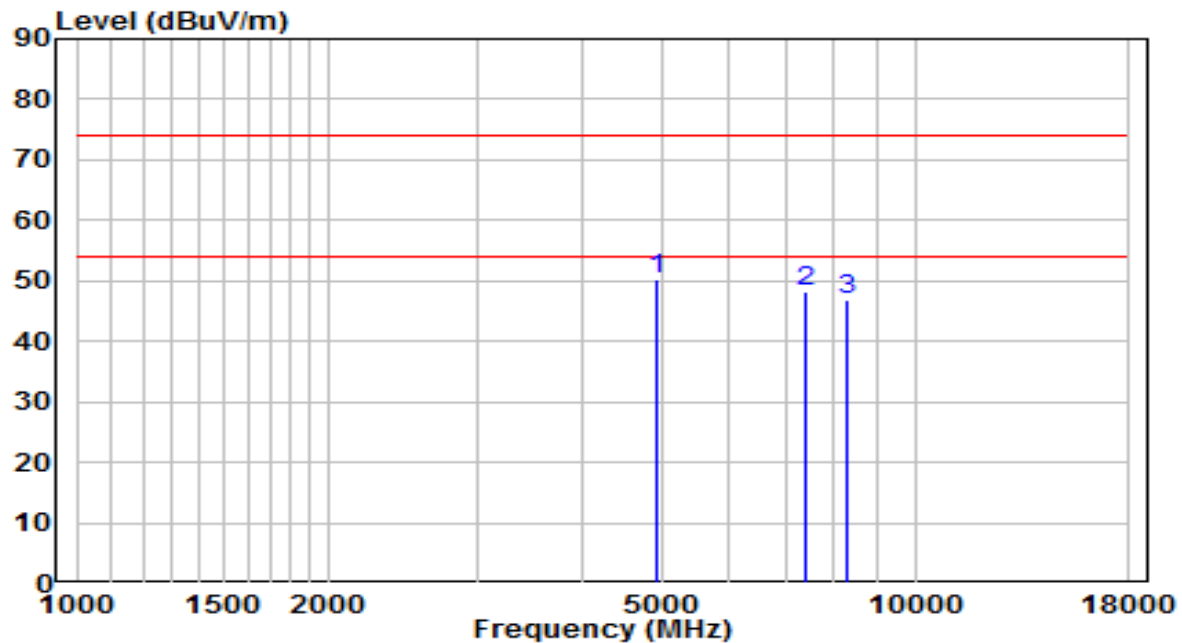


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4876.000	47.57	3.45	51.02	-22.98	74.00	PK
2		7485.500	35.68	11.67	47.36	-26.64	74.00	PK
3		8165.500	34.46	12.51	46.96	-27.04	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	110V/60Hz

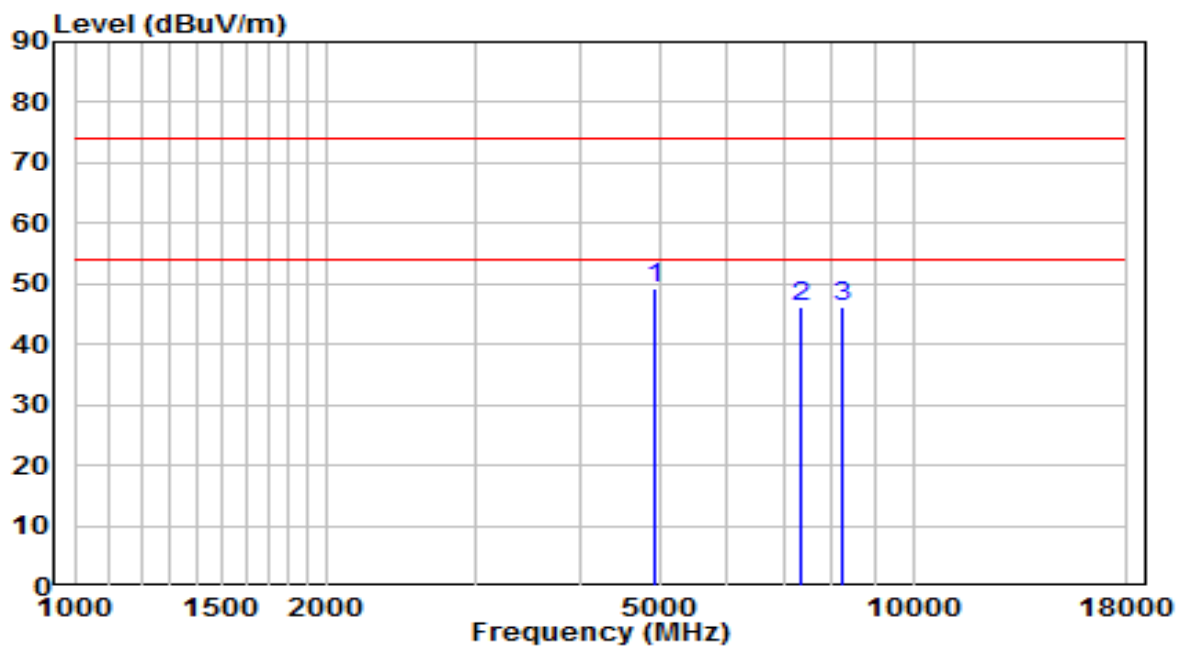


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4927.000	46.65	3.57	50.23	-23.77	74.00	PK
2		7383.500	36.82	11.39	48.20	-25.80	74.00	PK
3		8284.500	34.35	12.49	46.84	-27.16	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	110V/60Hz

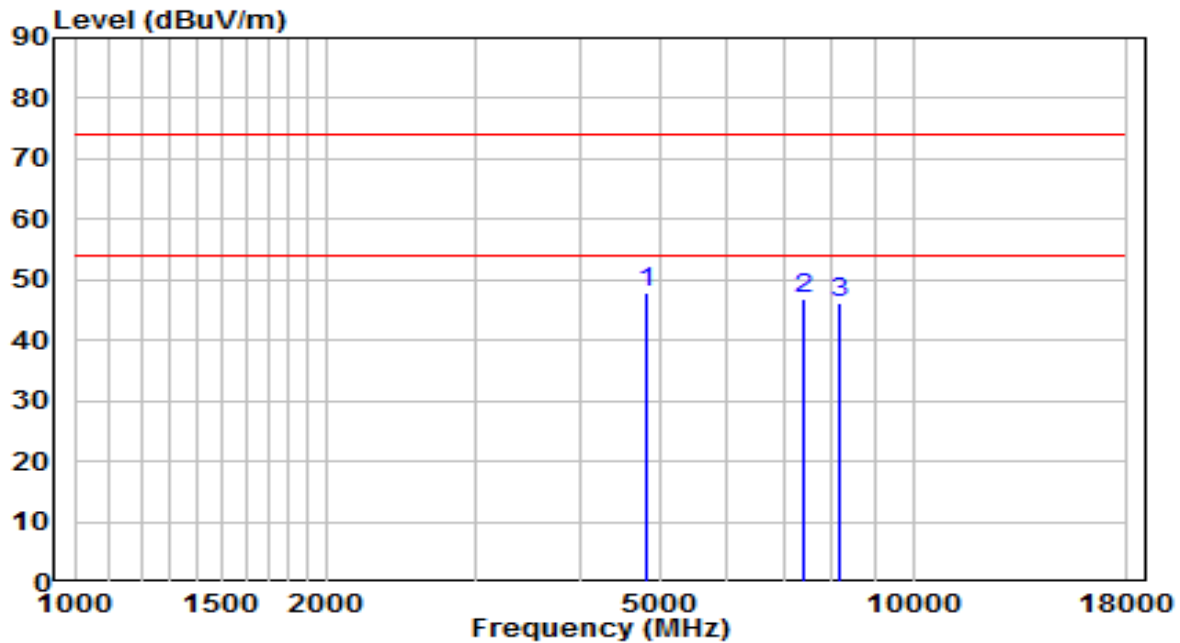


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4927.000	45.82	3.57	49.40	-24.60	74.00	PK
2		7349.500	34.91	11.29	46.20	-27.80	74.00	PK
3		8225.000	33.72	12.50	46.21	-27.79	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	110V/60Hz

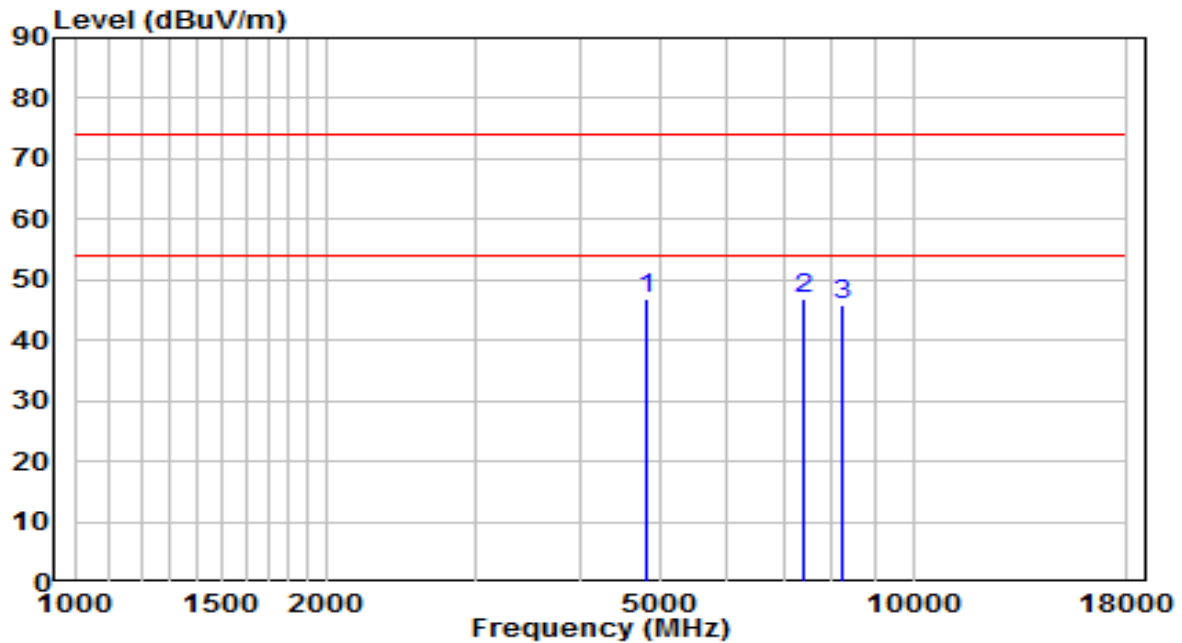


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4825.000	44.43	3.33	47.76	-26.24	74.00	PK
2		7409.000	35.56	11.46	47.02	-26.98	74.00	PK
3		8174.000	33.66	12.50	46.16	-27.84	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	110V/60Hz

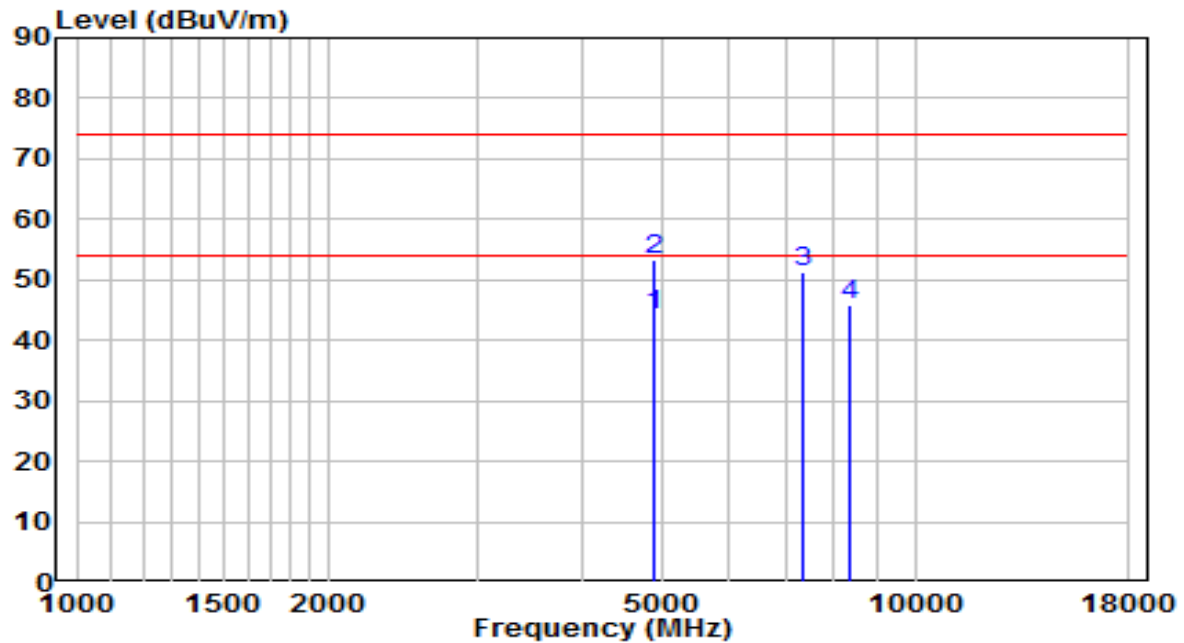


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4825.000	43.60	3.33	46.93	-27.07	74.00	PK
2		7426.000	35.26	11.51	46.77	-27.23	74.00	PK
3		8233.500	33.21	12.49	45.70	-28.30	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

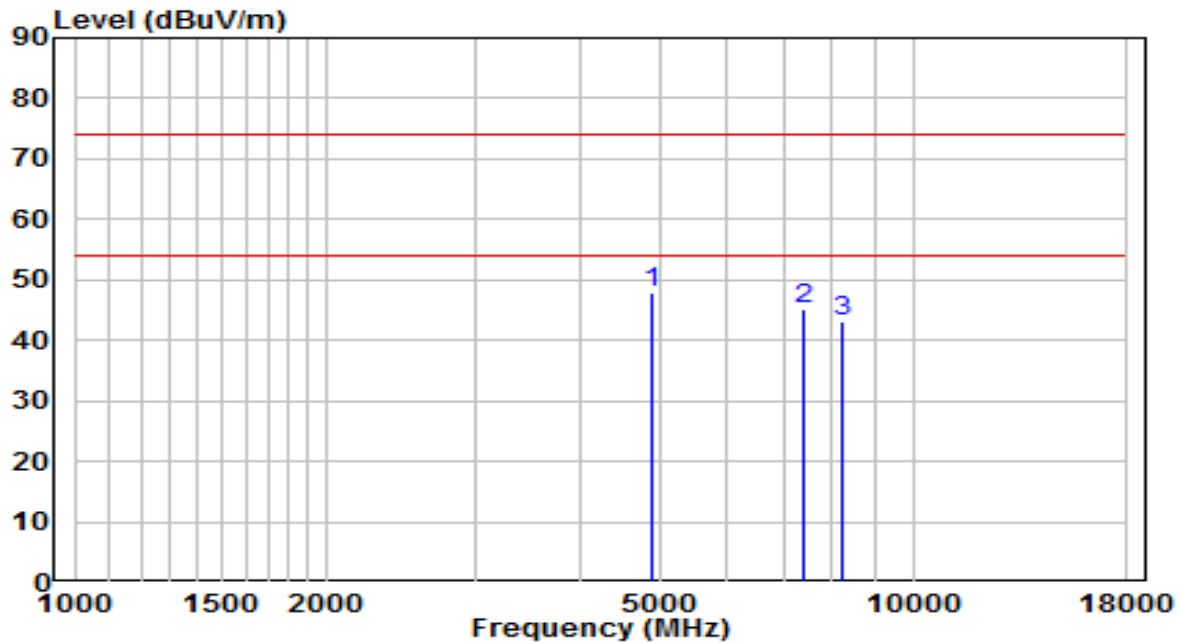


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4872.625	40.86	3.44	44.30	-9.70	54.00	AV
2		4876.000	49.71	3.45	53.16	-20.84	74.00	PK
3		7324.000	40.20	11.22	51.41	-22.59	74.00	PK
4		8369.500	33.25	12.47	45.73	-28.27	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

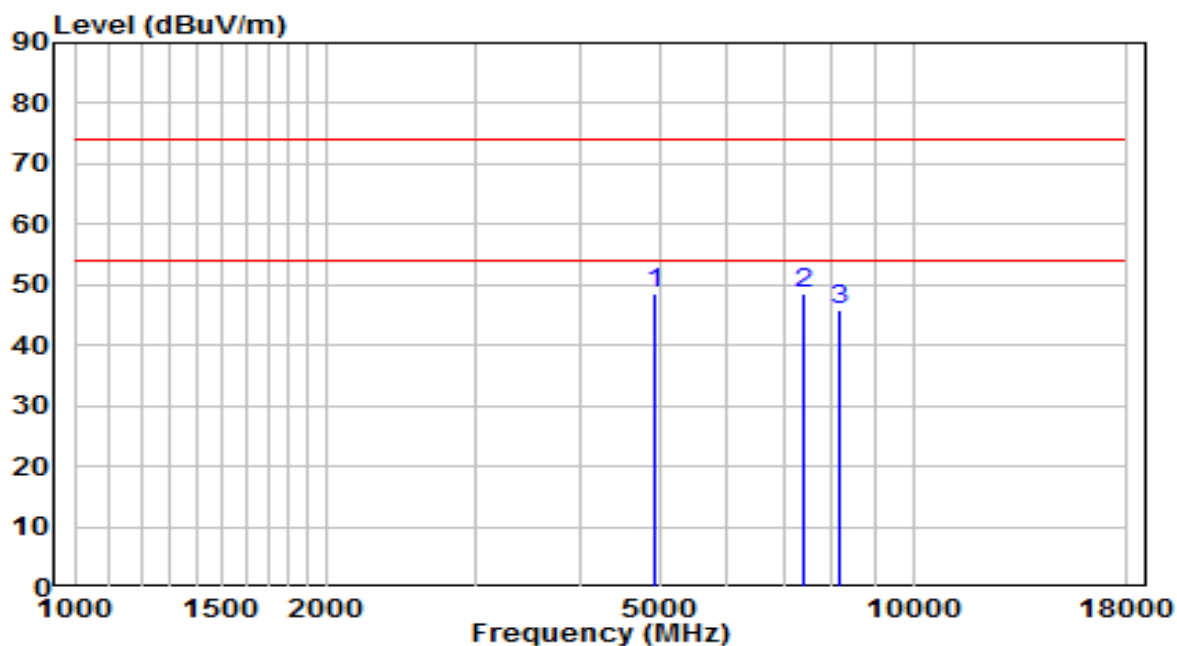


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4876.000	44.52	3.45	47.97	-26.03	74.00	PK
2		7426.000	33.58	11.51	45.09	-28.91	74.00	PK
3		8208.000	30.69	12.50	43.19	-30.81	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	110V/60Hz

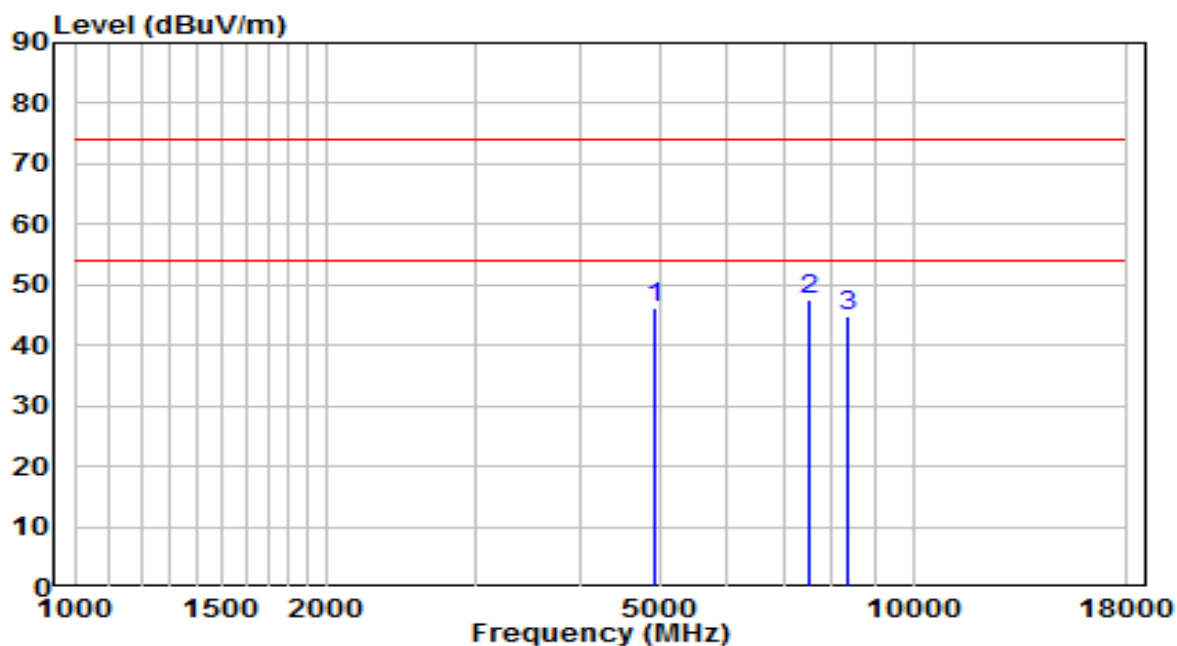


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4927.000	44.99	3.57	48.57	-25.43	74.00	PK
2	* 7383.500	37.23	11.39	48.62	-25.38	74.00	PK
3	8182.500	33.21	12.50	45.71	-28.29	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	110V/60Hz

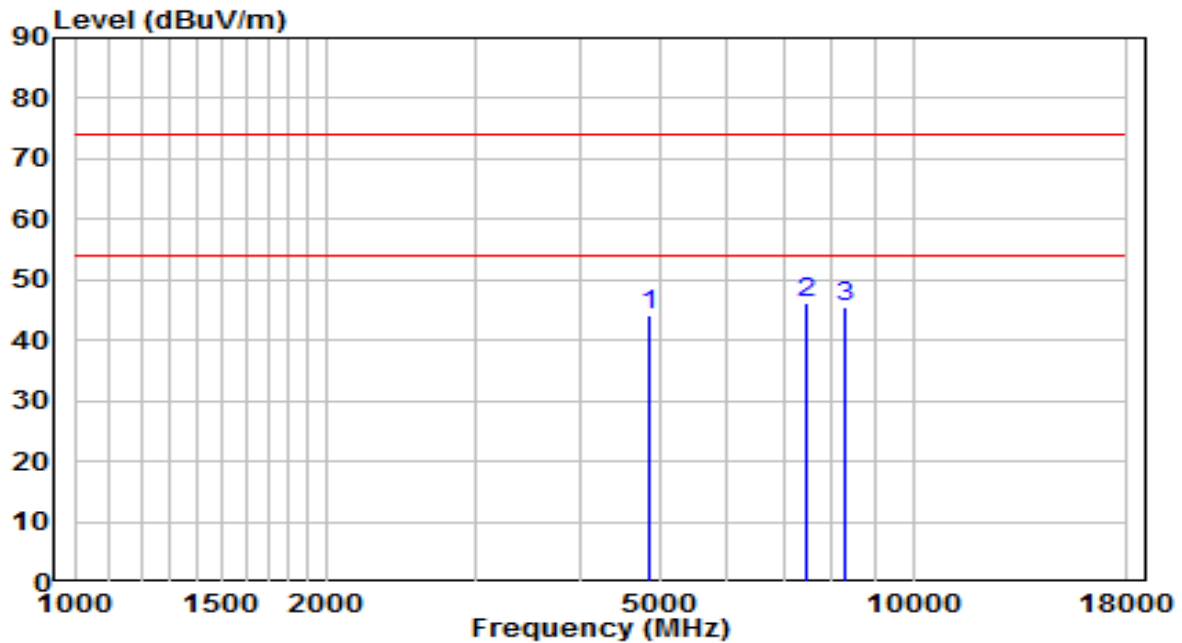


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4918.500	42.80	3.55	46.35	-27.65	74.00	PK
2	* 7494.000	35.98	11.70	47.67	-26.33	74.00	PK
3	8344.000	32.45	12.48	44.93	-29.07	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	110V/60Hz

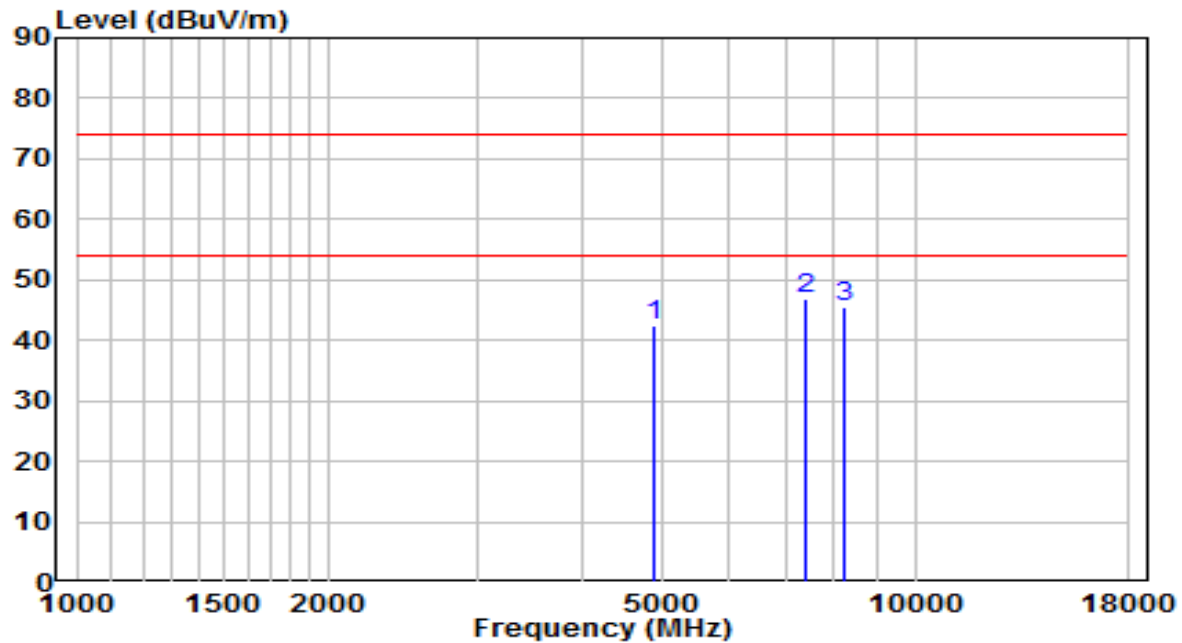


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4859.000	40.85	3.41	44.26	-29.74	74.00	PK
2	* 7443.000	34.80	11.55	46.36	-27.64	74.00	PK
3	8301.500	33.08	12.48	45.56	-28.44	74.00	PK

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	110V/60Hz

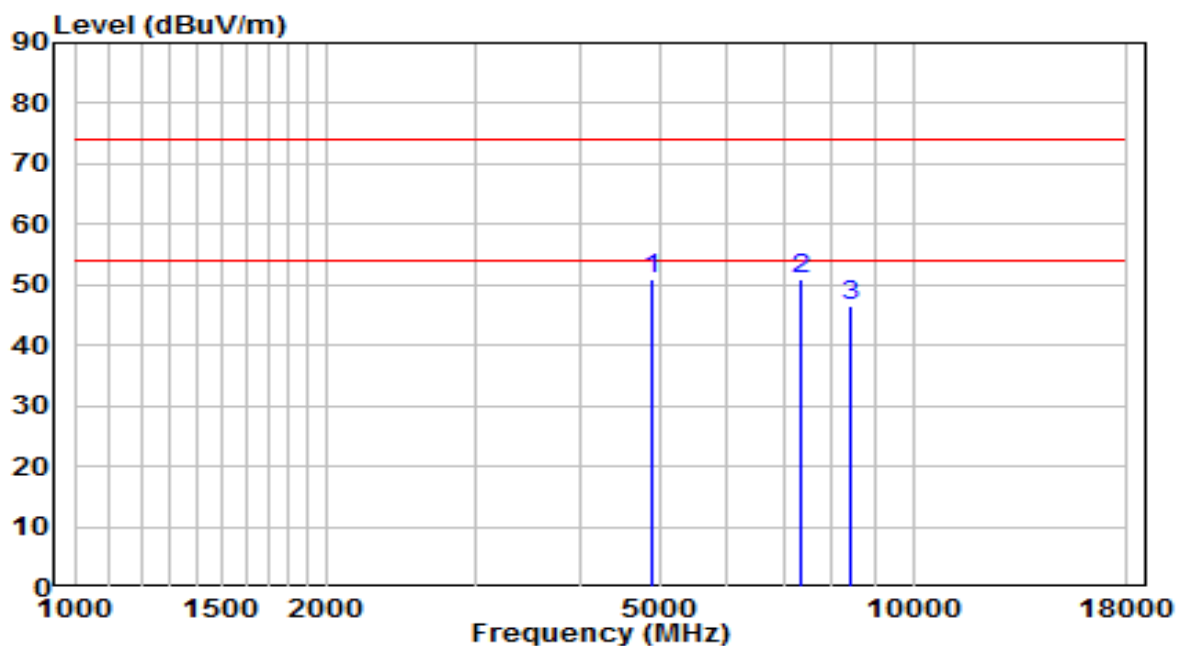


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4867.500	39.14	3.43	42.58	-31.42	74.00	PK
2	* 7400.500	35.47	11.43	46.90	-27.10	74.00	PK
3	8250.500	32.90	12.49	45.39	-28.61	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2437MHz	Test Voltage	110V/60Hz

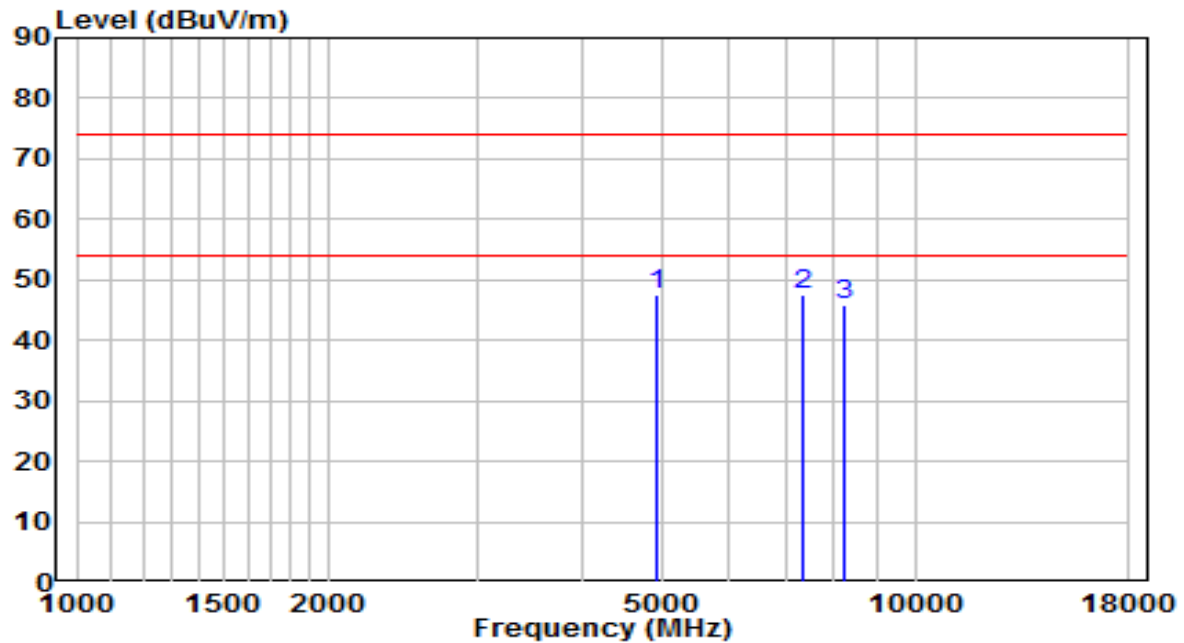


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4893.000	47.34	3.49	50.84	-23.16	74.00	PK
2	* 7324.000	39.73	11.22	50.94	-23.06	74.00	PK
3	8437.500	33.90	12.46	46.36	-27.64	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2437MHz	Test Voltage	110V/60Hz

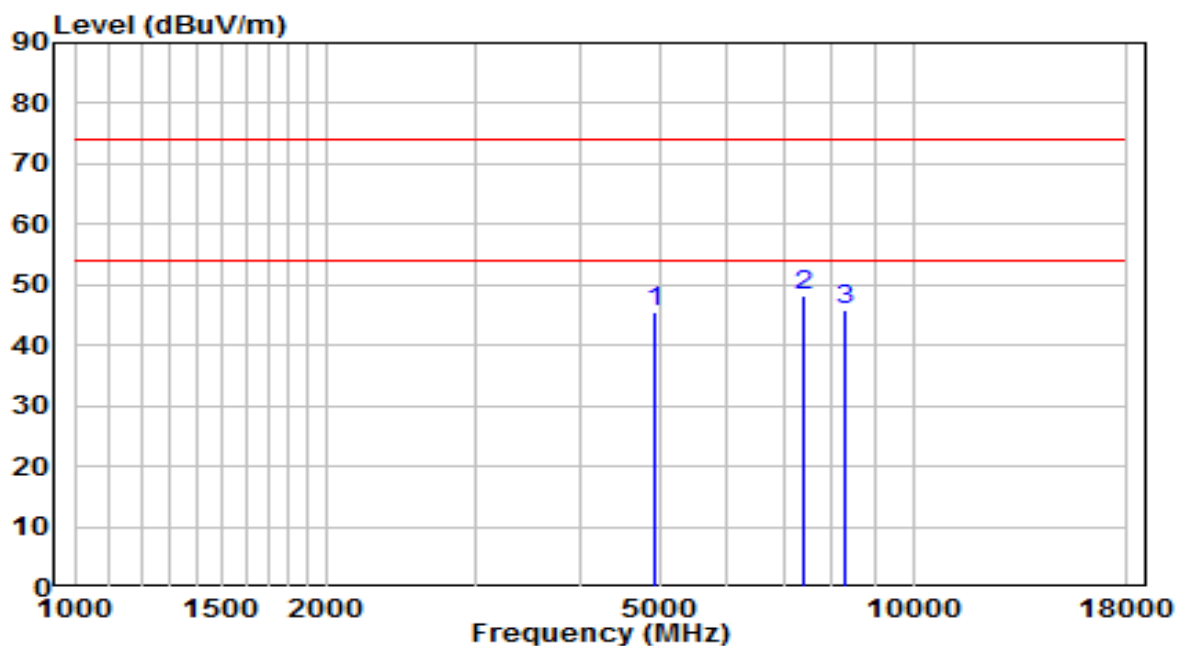


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	4901.500	44.05	3.51	47.57	-26.43	74.00	PK
2		7341.000	36.15	11.27	47.41	-26.59	74.00	PK
3		8250.500	33.39	12.49	45.88	-28.12	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	110V/60Hz

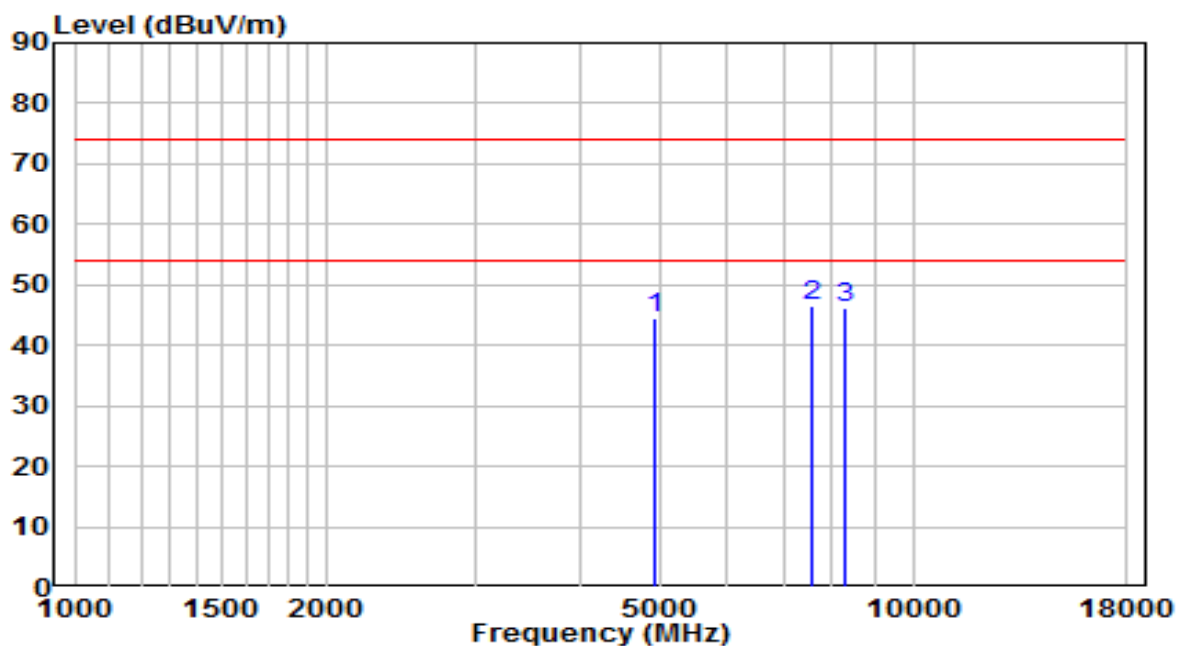


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4918.500	42.03	3.55	45.59	-28.41	74.00	PK
2	* 7383.500	36.68	11.39	48.06	-25.94	74.00	PK
3	8284.500	33.28	12.49	45.77	-28.23	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	23.2°C/48%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	110V/60Hz

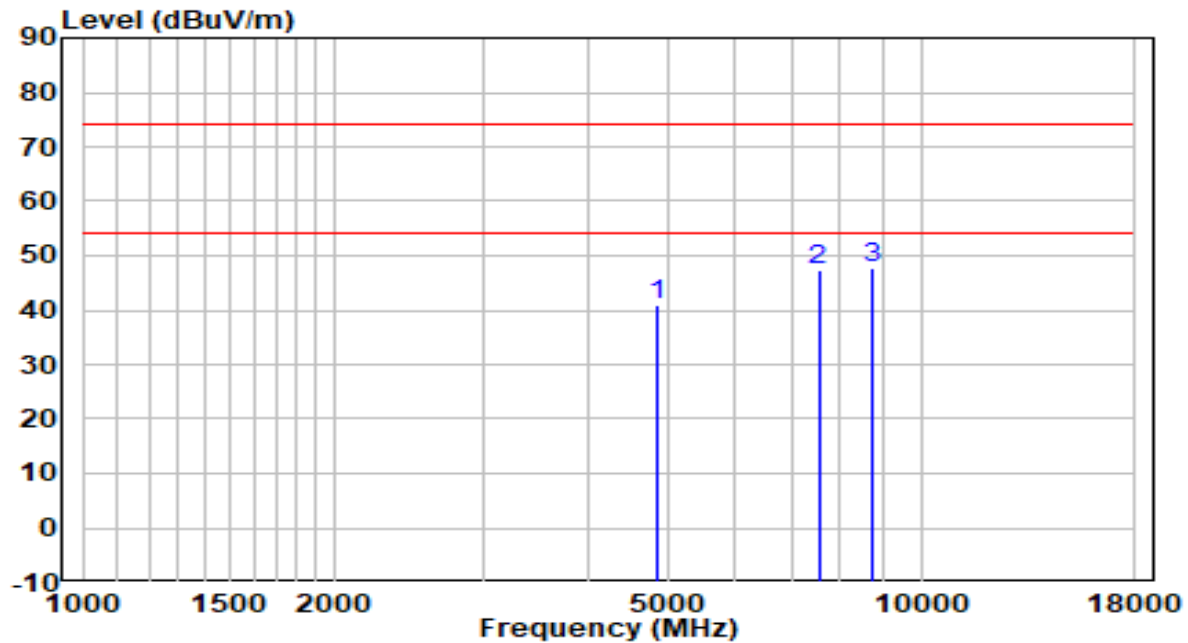


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4927.000	40.87	3.57	44.44	-29.56	74.00	PK
2	* 7587.500	34.83	11.86	46.69	-27.31	74.00	PK
3	8284.500	33.72	12.49	46.21	-27.79	74.00	PK

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-09-02
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/44.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Receive by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

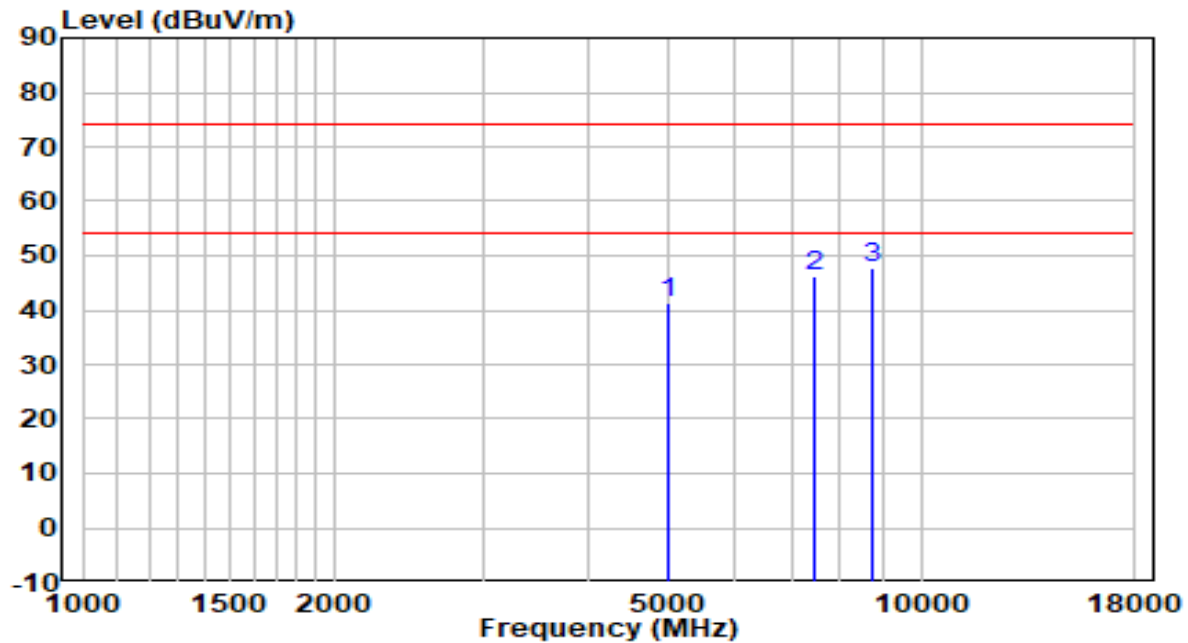


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4850.500	37.29	3.68	40.97	-33.03	74.00	Peak
2	7545.000	34.23	13.05	47.28	-26.72	74.00	Peak
3	* 8735.000	33.56	14.23	47.79	-26.21	74.00	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-09-02
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/44.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Receive by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz



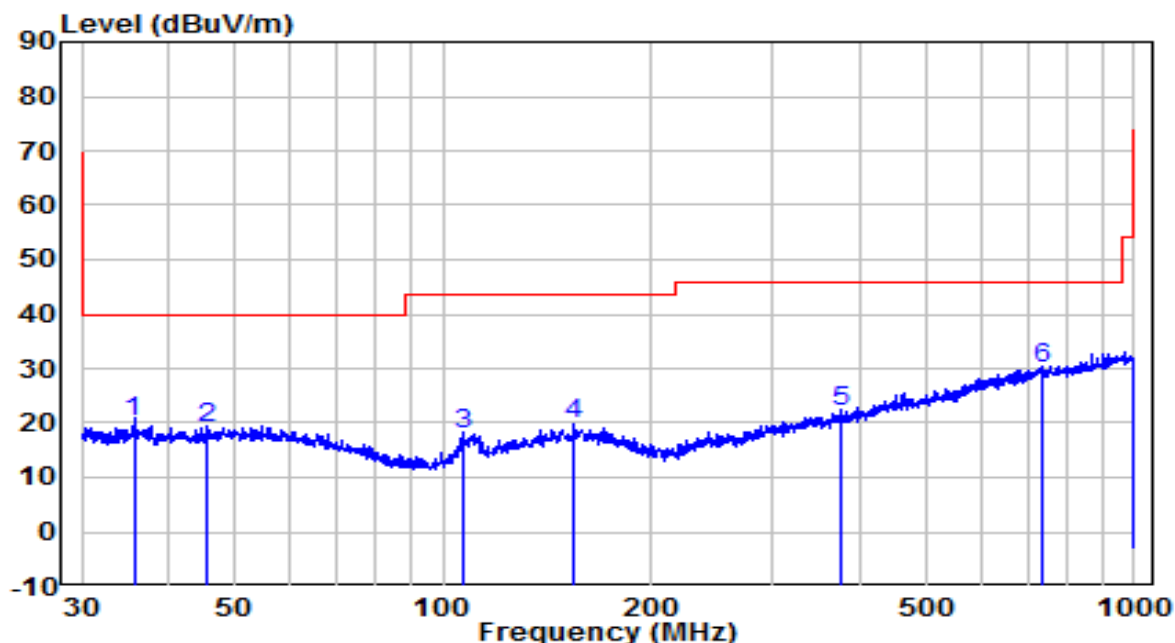
No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	4986.500	37.41	3.93	41.34	-32.66	74.00	Peak
2	7485.500	33.14	12.95	46.09	-27.91	74.00	Peak
3	* 8726.500	33.59	14.21	47.80	-26.20	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

The worst case of Radiated Emission below 1GHz:

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-17
Factor	VULB 9162 + 6dB Attenuator	Temp. / Humidity	22.2°C/54%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at channel 2437MHz	Test Voltage	110V/60Hz

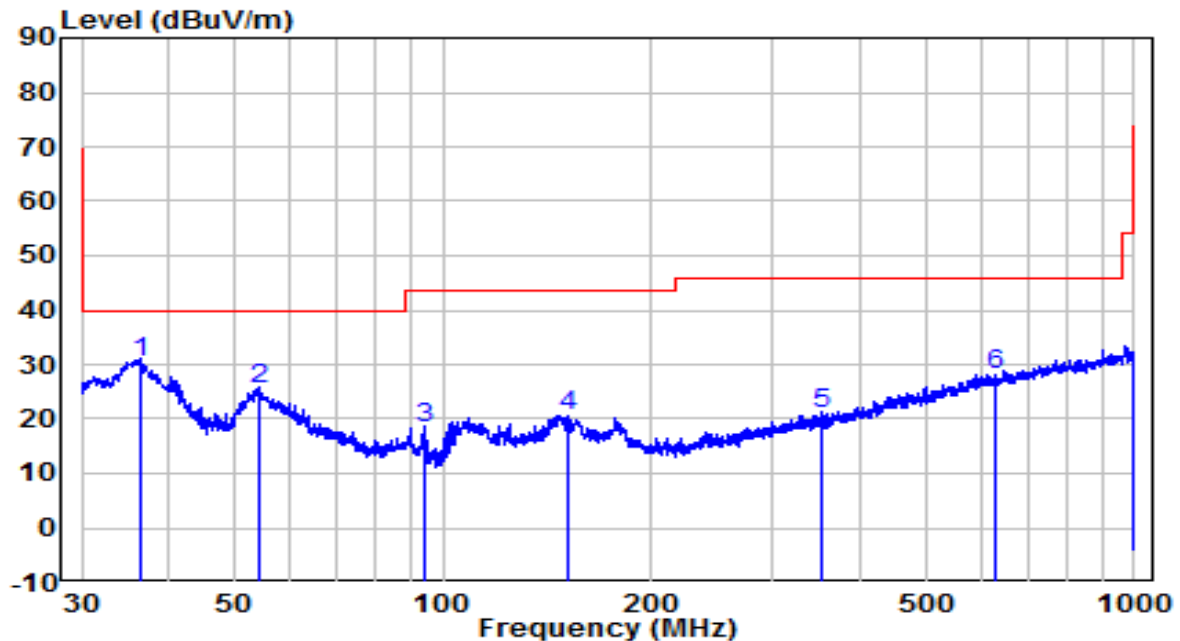


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	35.686	0.67	19.56	20.23	-19.77	40.00	QP
2	45.455	-2.63	21.83	19.20	-20.80	40.00	QP
3	106.572	-1.10	18.87	17.77	-25.73	43.50	QP
4	155.092	3.64	16.15	19.79	-23.71	43.50	QP
5	375.939	-1.45	23.66	22.21	-23.79	46.00	QP
6	* 733.205	0.29	29.84	30.13	-15.87	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 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.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-17
Factor	VULB 9162 + 6dB Attenuator	Temp. / Humidity	22.2°C/54%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at channel 2437MHz	Test Voltage	110V/60Hz

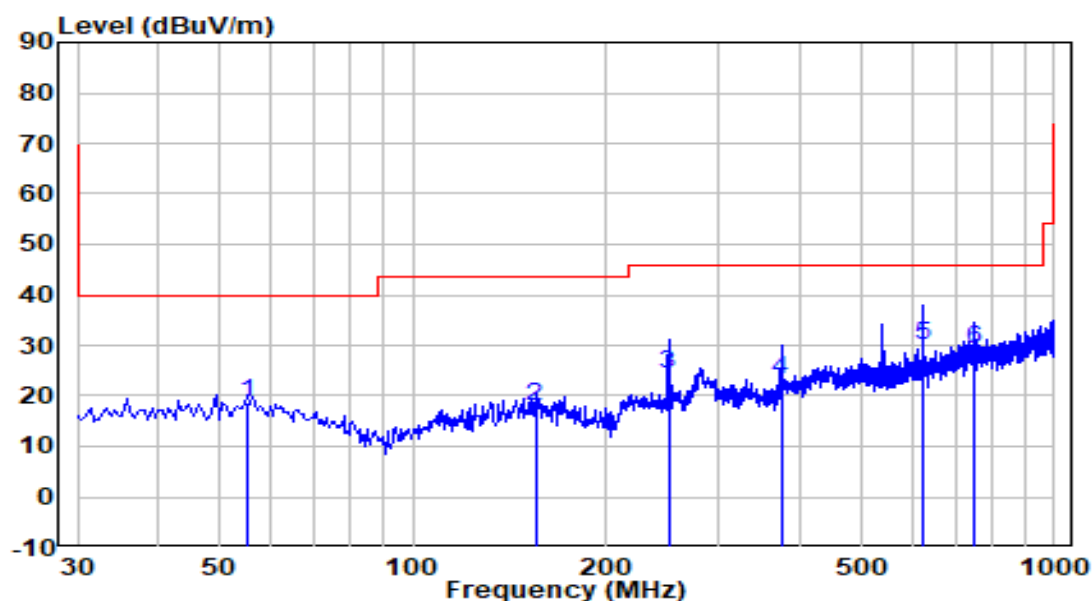


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	36.381	10.40	19.80	30.20	-9.80	40.00	QP
2		54.356	4.13	21.25	25.38	-14.62	40.00	QP
3		94.263	0.36	17.87	18.23	-25.27	43.50	QP
4		151.332	4.47	16.02	20.49	-23.01	43.50	QP
5		352.943	-2.31	23.28	20.97	-25.03	46.00	QP
6		629.477	-0.24	28.28	28.04	-17.96	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)– Preamplifier(dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 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.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-09-06
Factor	VULB 9162 + 6dB Attenuator	Temp. / Humidity	24.1°C /44.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Receive by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

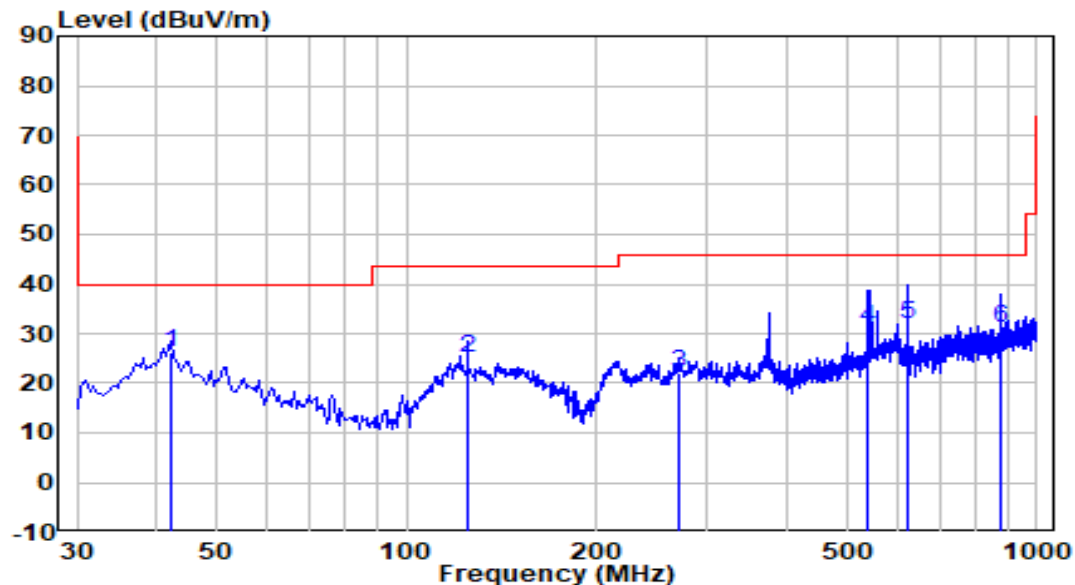


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	55.220	-2.35	21.09	18.74	-21.26	40.00	QP
2	155.130	1.87	16.15	18.02	-25.48	43.50	QP
3	250.190	3.62	20.54	24.16	-21.84	46.00	QP
4	374.835	-0.48	23.64	23.16	-22.84	46.00	QP
5	* 625.095	1.83	28.21	30.04	-15.96	46.00	QP
6	750.225	-0.96	30.11	29.15	-16.85	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 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.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-09-06
Factor	VULB 9162 + 6dB Attenuator	Temp. / Humidity	24.1°C /44.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Receive by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

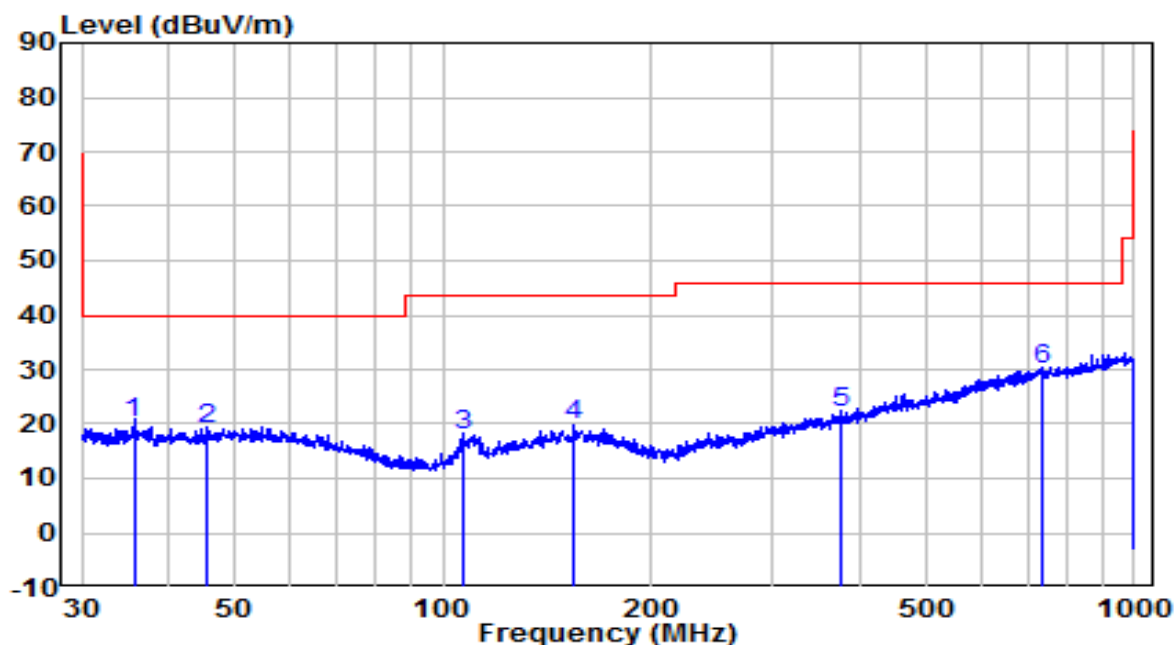


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	42.125	4.77	21.38	26.15	-13.85	40.00	QP
2		125.060	8.27	16.76	25.03	-18.47	43.50	QP
3		271.530	1.39	20.75	22.14	-23.86	46.00	QP
4		540.705	4.56	26.70	31.26	-14.74	46.00	QP
5		625.095	3.81	28.21	32.02	-13.98	46.00	QP
6		874.870	-0.37	31.63	31.26	-14.74	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5.The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 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.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-19
Factor	VULB 9162 + 6dB Attenuator	Temp. / Humidity	24.1°C /44.7%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Normal operation	Test Voltage	110V/60Hz

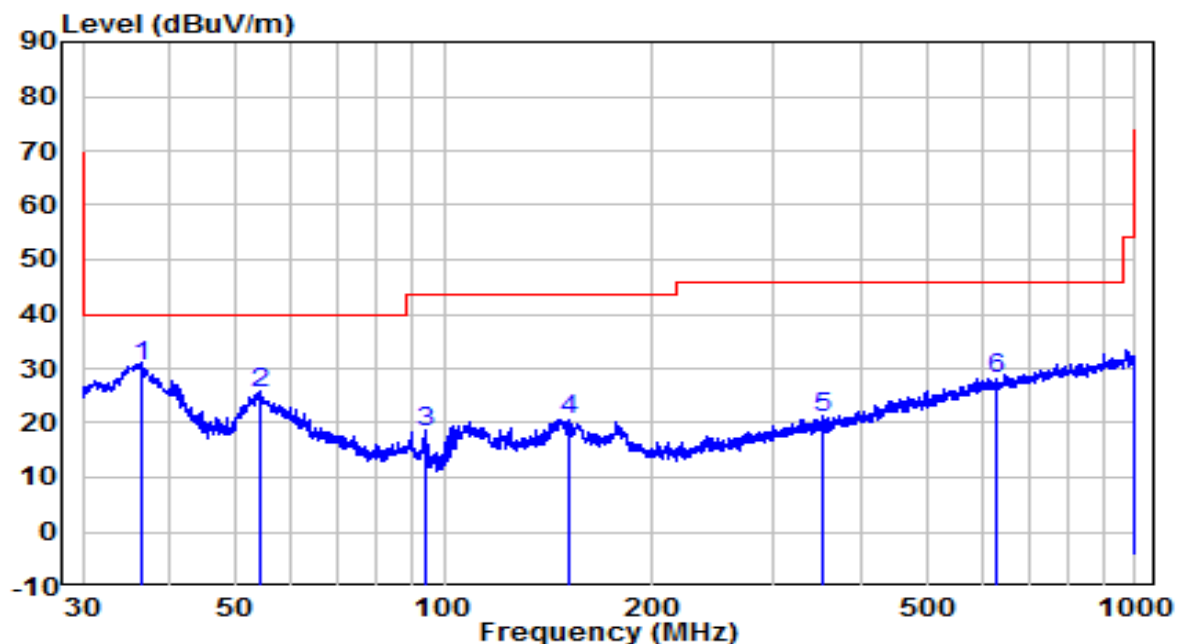


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	35.686	0.67	19.56	20.23	-19.77	40.00	QP
2	45.455	-2.63	21.83	19.20	-20.80	40.00	QP
3	106.572	-1.10	18.87	17.77	-25.73	43.50	QP
4	155.092	3.64	16.15	19.79	-23.71	43.50	QP
5	375.939	-1.45	23.66	22.21	-23.79	46.00	QP
6	* 733.205	0.29	29.84	30.13	-15.87	46.00	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 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.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-19
Factor	VULB 9162 + 6dB Attenuator	Temp. / Humidity	24.1°C /44.7%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Normal operation	Test Voltage	110V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	36.381	10.40	19.80	30.20	-9.80	40.00	QP
2		54.356	4.13	21.25	25.38	-14.62	40.00	QP
3		94.263	0.36	17.87	18.23	-25.27	43.50	QP
4		151.332	4.47	16.02	20.49	-23.01	43.50	QP
5		352.943	-2.31	23.28	20.97	-25.03	46.00	QP
6		629.477	-0.24	28.28	28.04	-17.96	46.00	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of Radiated emissions (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 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.

5.5. 混附發射之 RF 傳導發射

5.5.1. 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範之第 4.10.1.5 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 4.10.1(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 3.5 節禁用頻段之輻射發射，應符合第 3.6 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

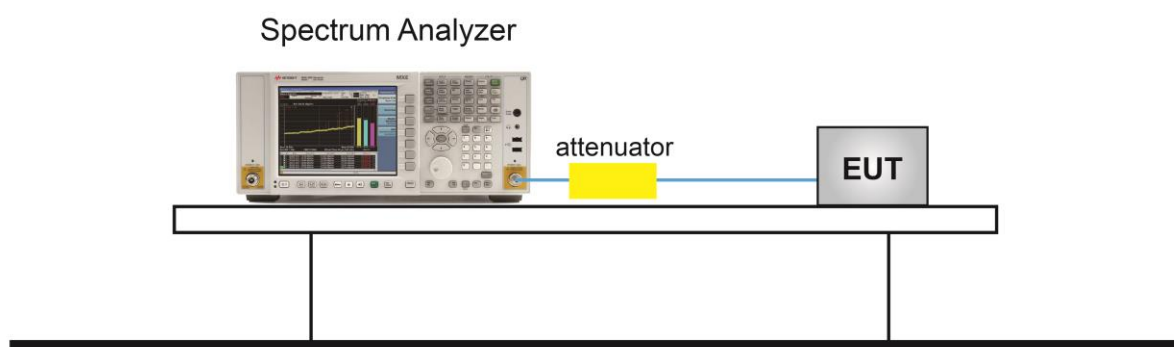
依據國家通訊傳播委員會低功率射頻器材技術規範之附件三，頻率跳頻展頻系統檢測之參考程式七 混附發射之 RF 傳導發射：

(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。

P.S 根據 ANSI C63.10，其限制值的要求可參考 PSD 的最大值衰減 20 or 30dB。

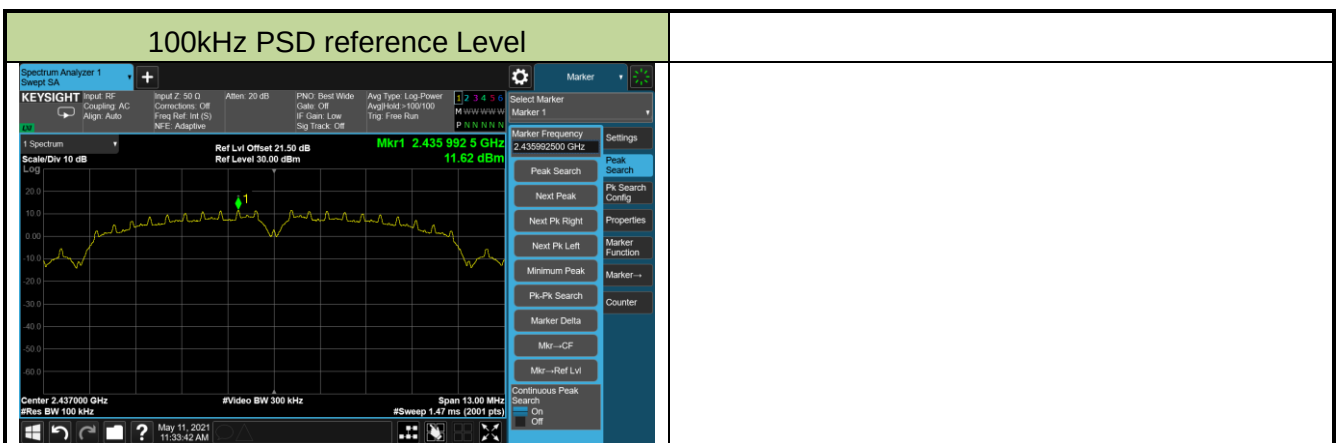
5.5.3. 測試架構圖



5.5.4. 混附發射之 RF 傳導發射測試結果

待測物名稱	AX1500 Wi-Fi 6 範圍擴展器	溫度	25°C
測試工程師	Eric Lin	濕度	54%
測試場地	SR2	測試日期	2021/05/11

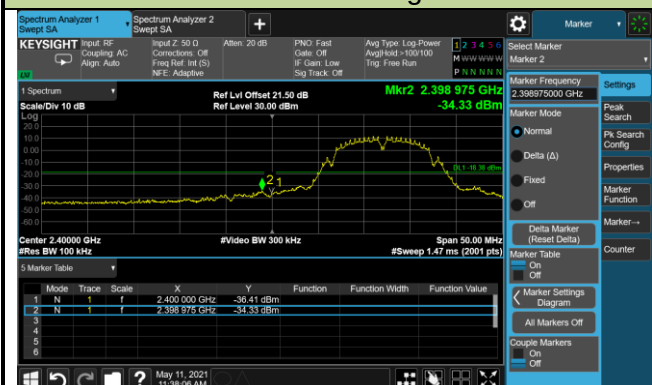
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
802.11b	1Mbps	01	2412	≤ 30	Pass
802.11b	1Mbps	06	2437	≤ 30	Pass
802.11b	1Mbps	11	2462	≤ 30	Pass
802.11g	6Mbps	01	2412	≤ 30	Pass
802.11g	6Mbps	06	2437	≤ 30	Pass
802.11g	6Mbps	11	2462	≤ 30	Pass
802.11n-HT20	MCS0	01	2412	≤ 30	Pass
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



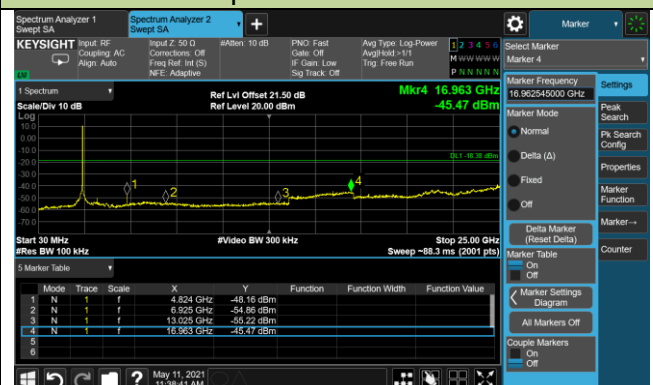
802.11b Out-of-Band Emissions - Ant 0

Channel 01 (2412MHz)

Low Band Edge

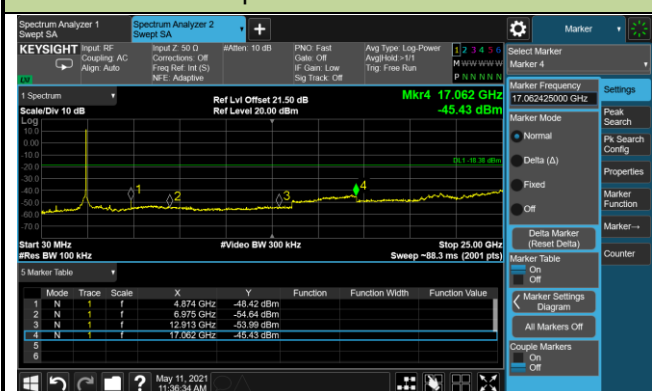


Spurious Emission



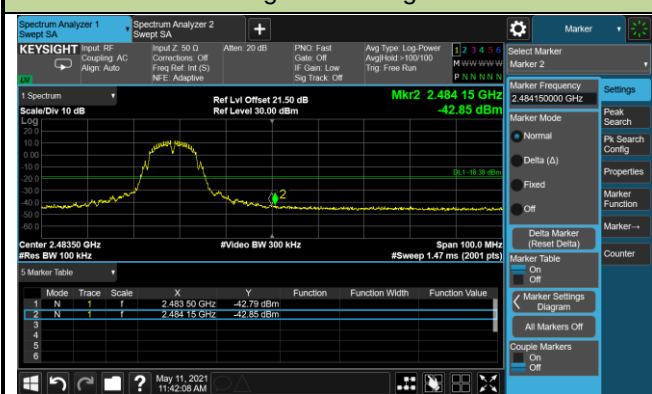
Channel 06 (2437MHz)

Spurious Emission

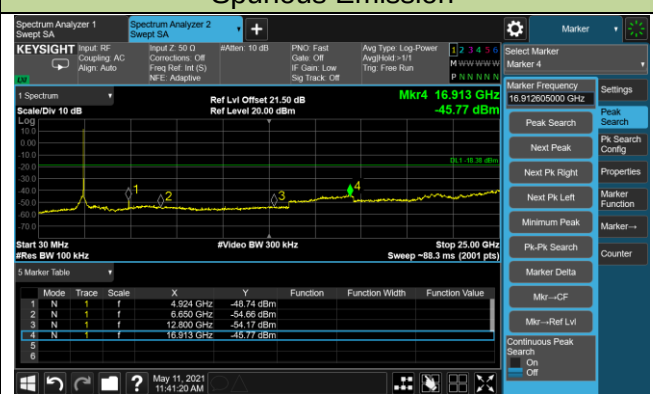


Channel 11 (2462MHz)

High Band Edge



Spurious Emission



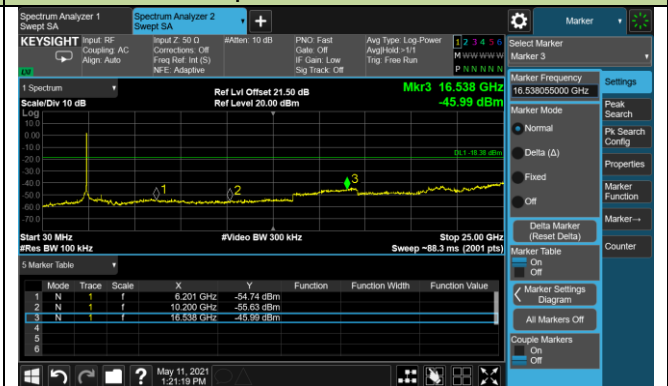
802.11g Out-of-Band Emissions- Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

Low Band Edge

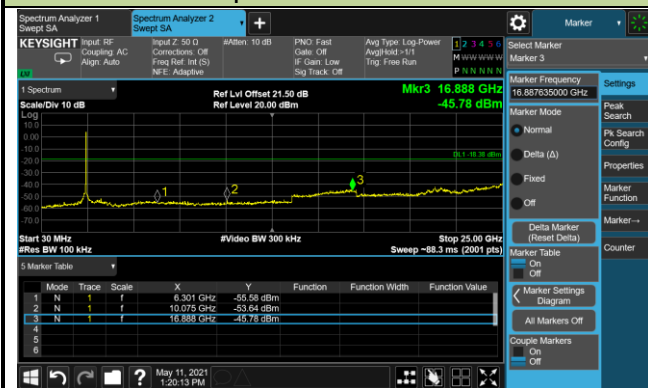


Spurious Emission



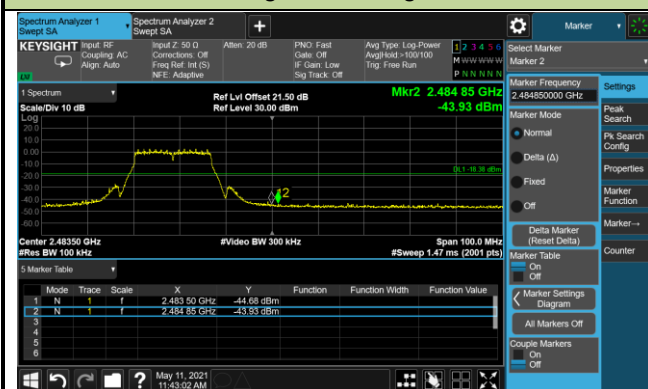
Channel 06 (2437MHz)

Spurious Emission

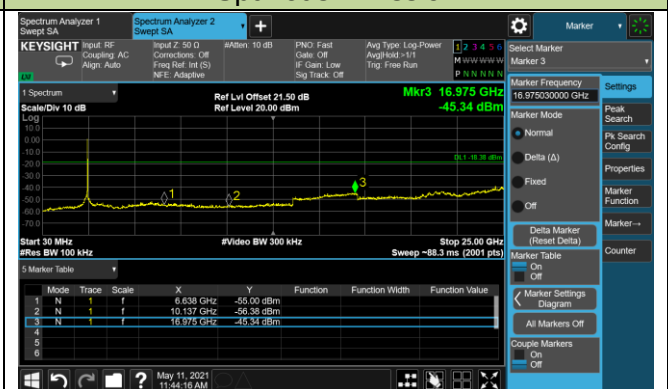


Channel 11 (2462MHz)

High Band Edge



Spurious Emission



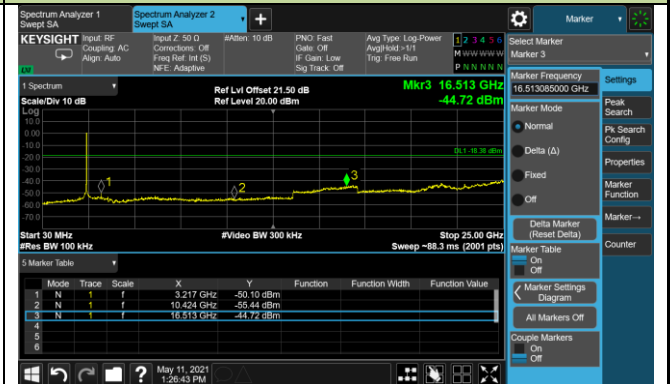
802.11n-HT20 Out-of-Band Emissions- Ant 0 / Ant 0 + 1

Channel 01 (2412MHz)

Low Band Edge

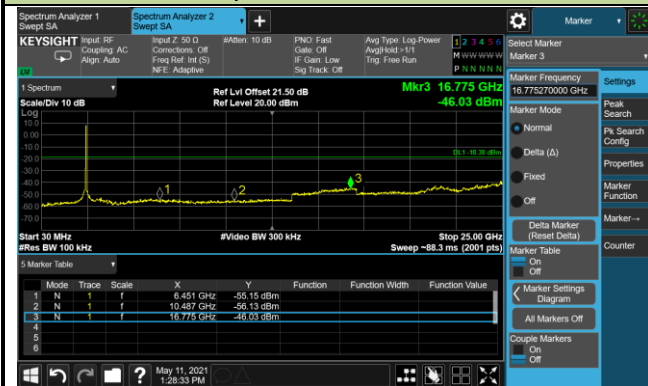


Spurious Emission



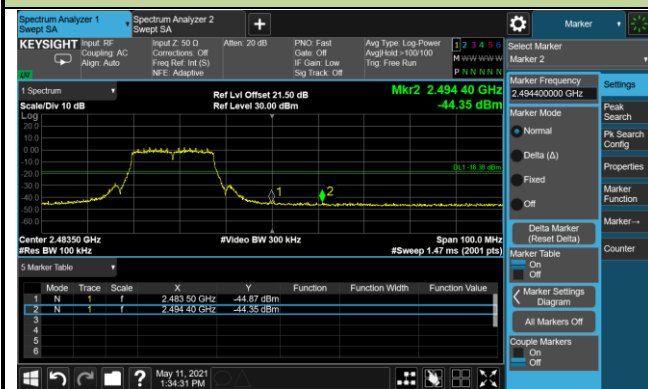
Channel 06 (2437MHz)

Spurious Emission

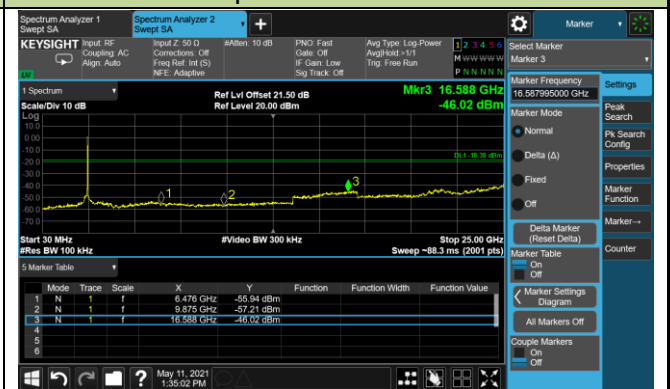


Channel 11 (2462MHz)

High Band Edge



Spurious Emission



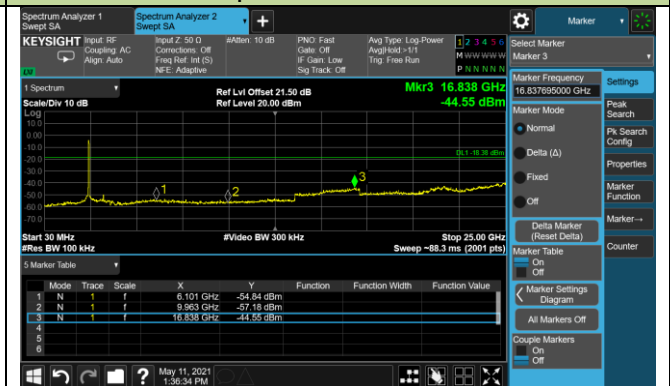
802.11n-HT40 Out-of-Band Emissions- Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)

Low Band Edge



Spurious Emission



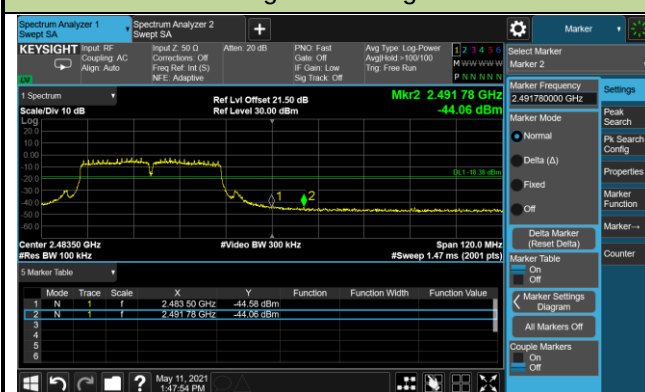
Channel 06 (2437MHz)

Spurious Emission

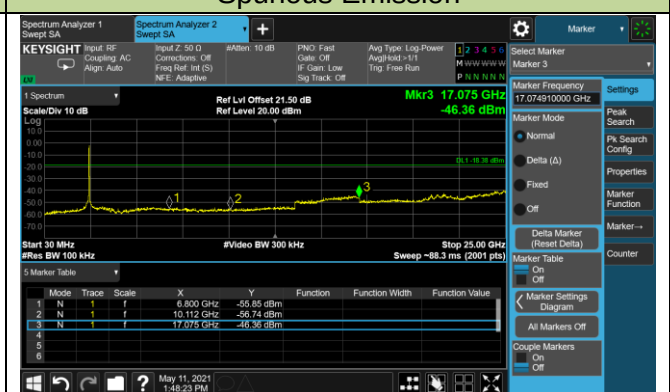


Channel 09 (2452MHz)

High Band Edge



Spurious Emission



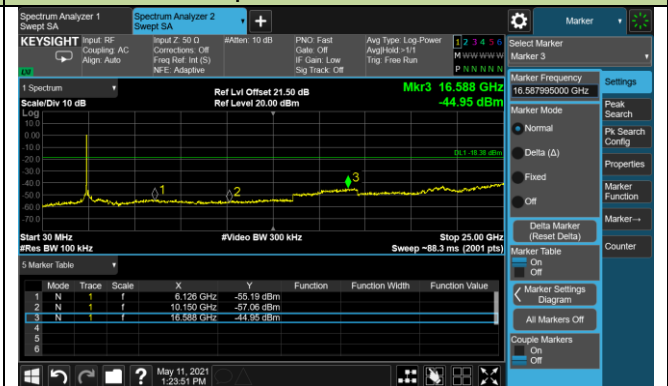
802.11g Out-of-Band Emissions- Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

Low Band Edge

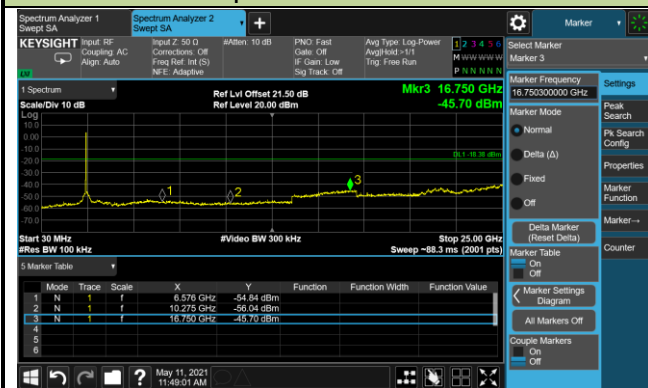


Spurious Emission



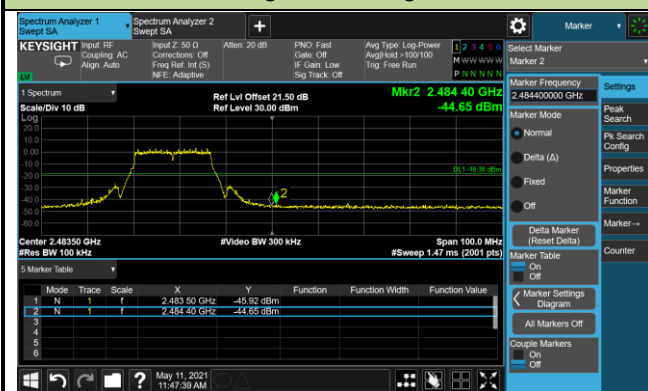
Channel 06 (2437MHz)

Spurious Emission



Channel 11 (2462MHz)

High Band Edge



Spurious Emission



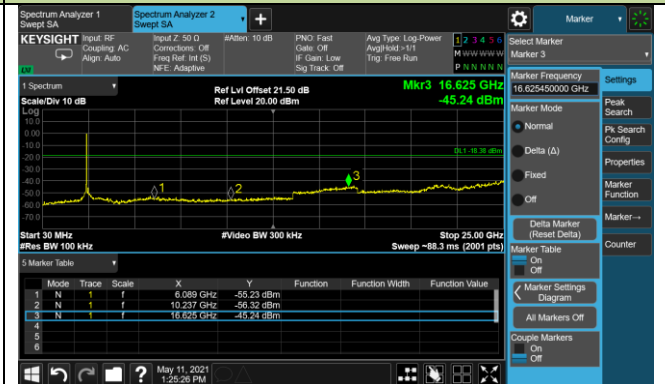
802.11n-HT20 Out-of-Band Emissions- Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

Low Band Edge

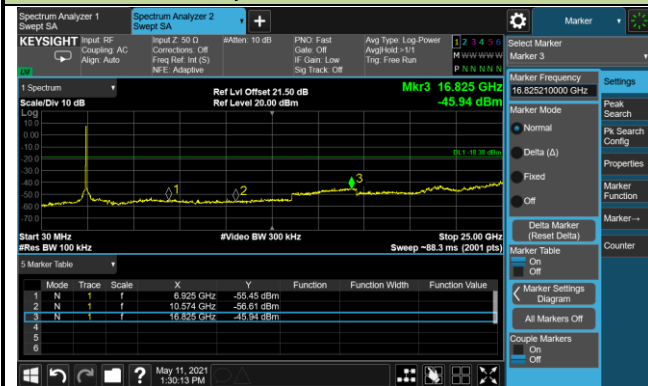


Spurious Emission



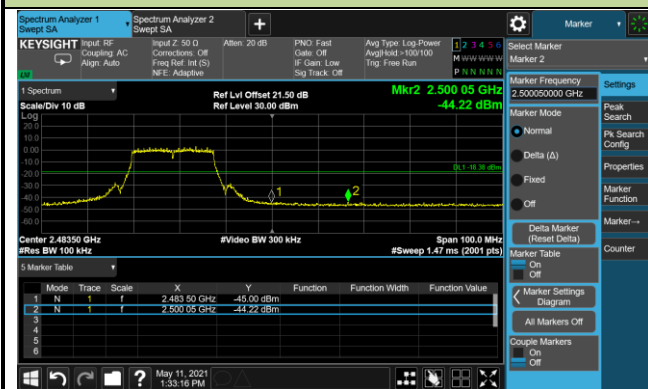
Channel 06 (2437MHz)

Spurious Emission

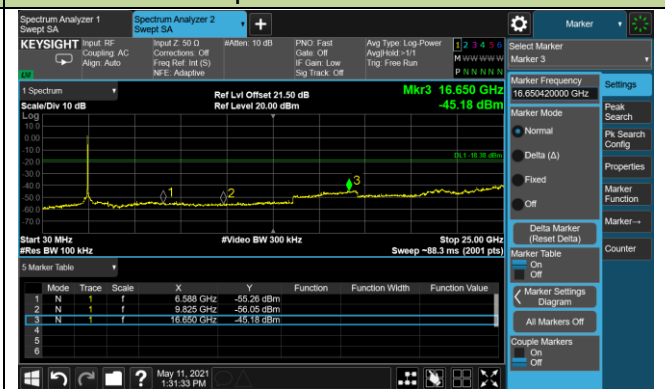


Channel 11 (2462MHz)

High Band Edge



Spurious Emission



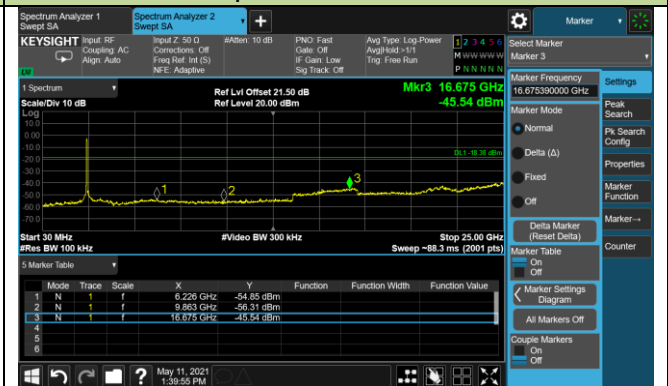
802.11n-HT40 Out-of-Band Emissions- Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

Low Band Edge

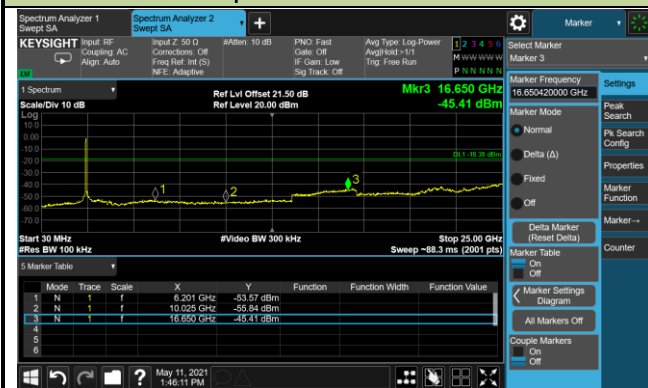


Spurious Emission



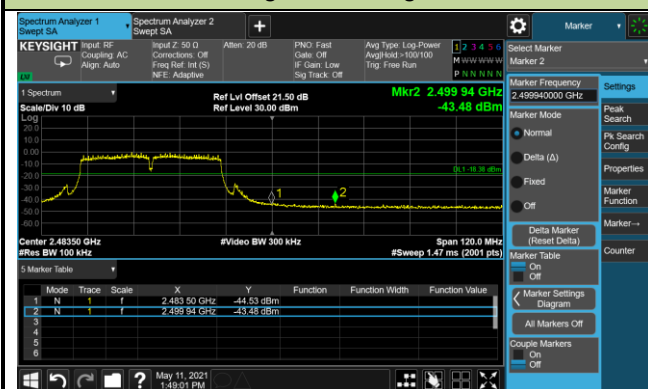
Channel 06 (2437MHz)

Spurious Emission

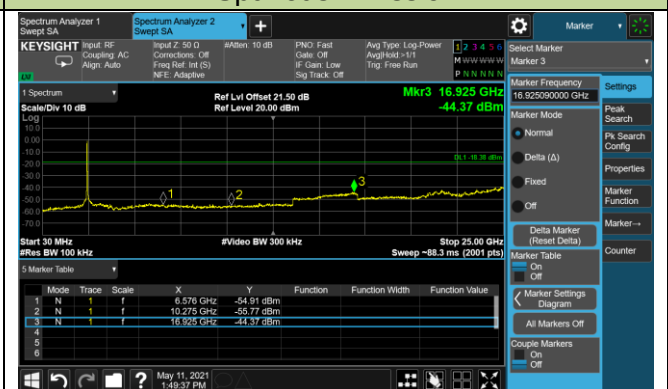


Channel 09 (2452MHz)

High Band Edge



Spurious Emission



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器材技術規範之第 4.10.1.5 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器材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器材技術規範 4.10.1(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 3.5 節禁用頻段之輻射發射，應符合第 3.6 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器材技術規範之第 3.6 節，低功率射頻器材，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。

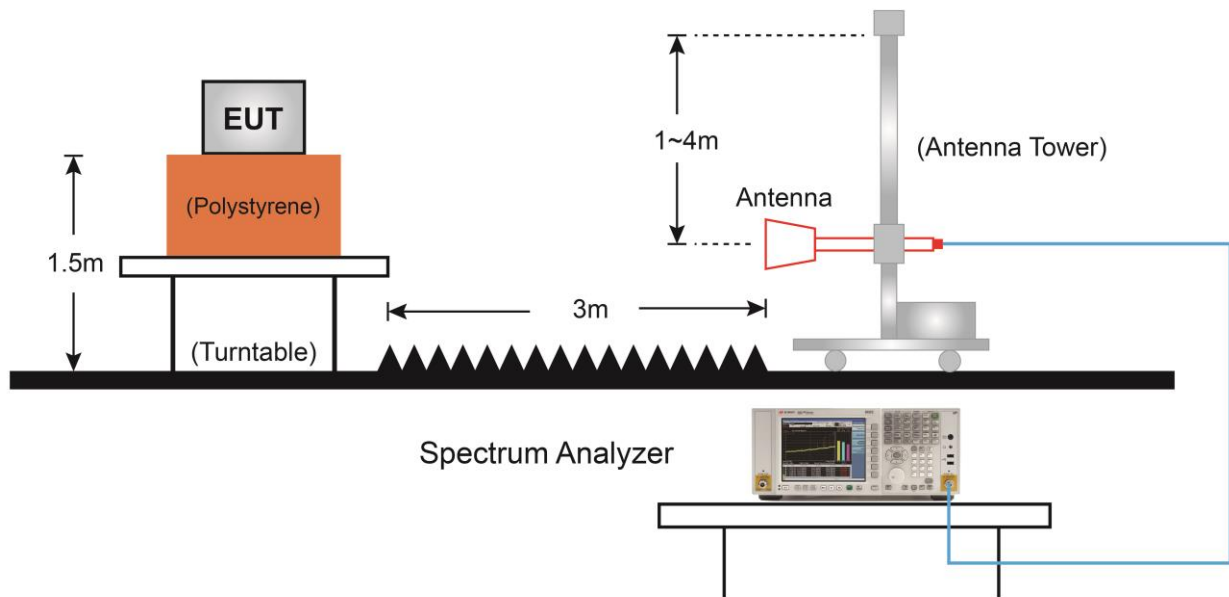
頻率(f) (MHz)	電場強度 (微伏特/公尺, $\mu\text{V/m}$)	測距 (公尺)
$0.009 \leq f \leq 0.490$	$2400/f(\text{kHz})$	300
$0.490 < f \leq 1.705$	$24000/f(\text{kHz})$	30
$1.705 < f < 30$	30	30
$30 \leq f \leq 88$	100	3
$88 < f \leq 216$	150	3
$216 < f \leq 960$	200	3
$960 < f$	500	3

上表規定之電場強度，發射頻率在 9 kHz~90 kHz、110 kHz~490 kHz 及 1000MHz 以上者，其量測應以平均值檢波器為基準，且須符合低功率射頻器材技術規範第 6.14.節之規定；其他發射頻率，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，應符合第 6.5 節之規定，而輻射發射之量測頻率範圍須符合低功率射頻器材技術規範第 6.12 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。

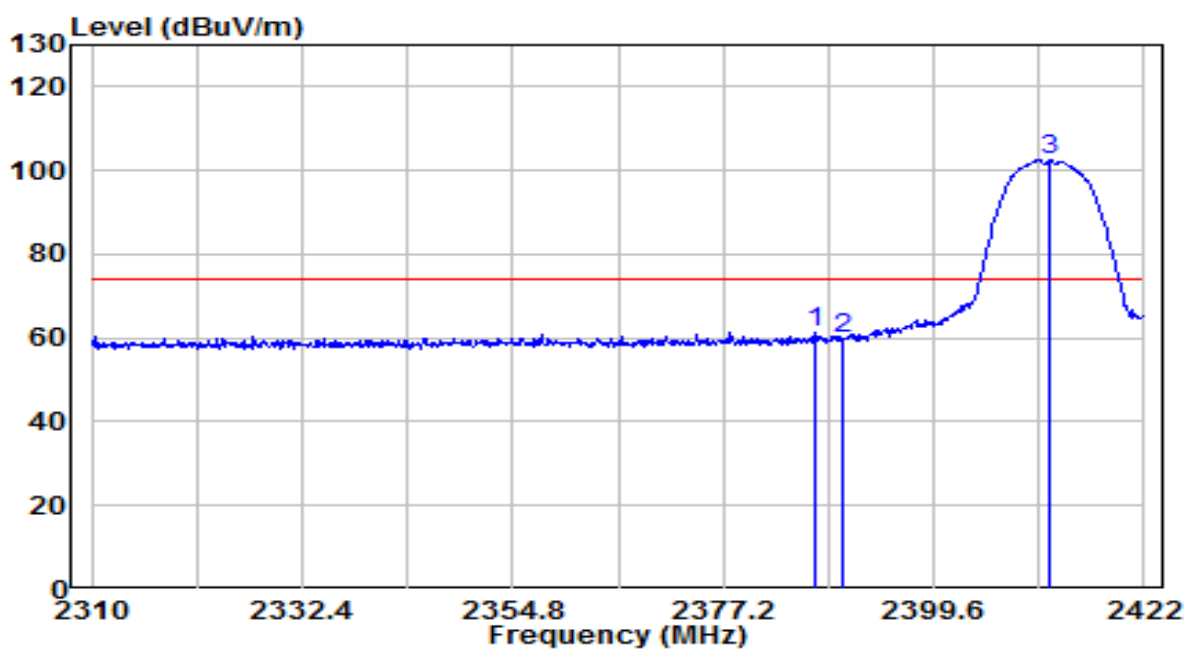
5.6.3. 測試架構圖



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

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

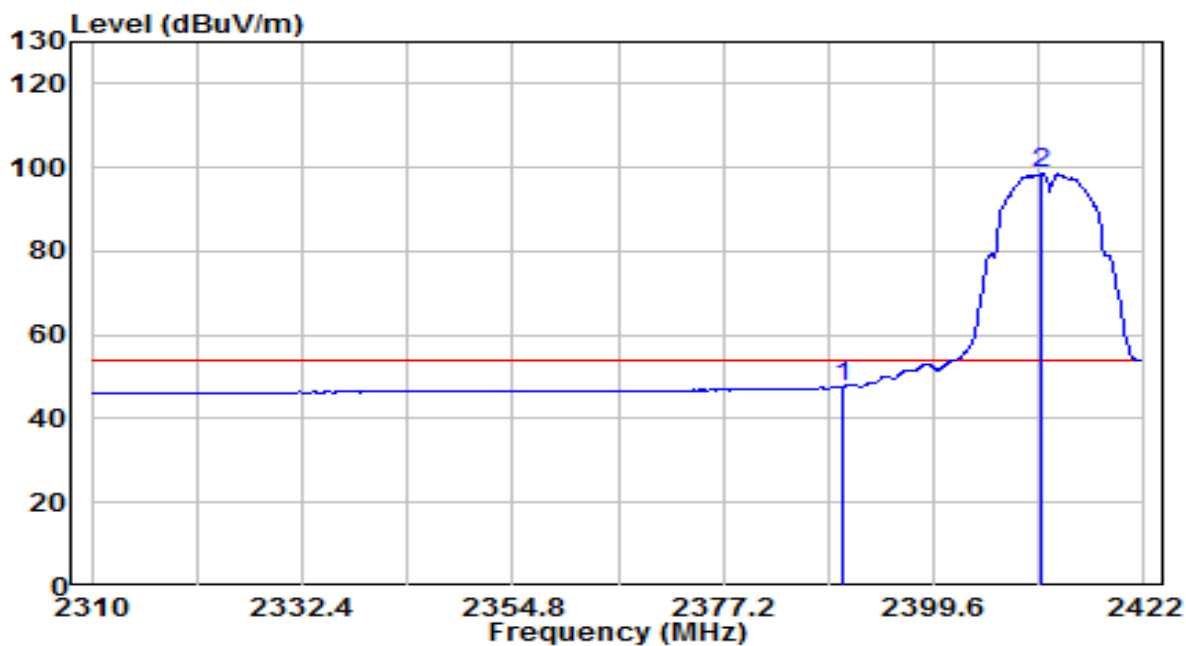


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2386.944	28.86	32.28	61.14	-12.86	74.00	Peak
2	2390.000	27.46	32.30	59.76	-14.24	74.00	Peak
3	* 2412.032	70.10	32.39	102.50	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

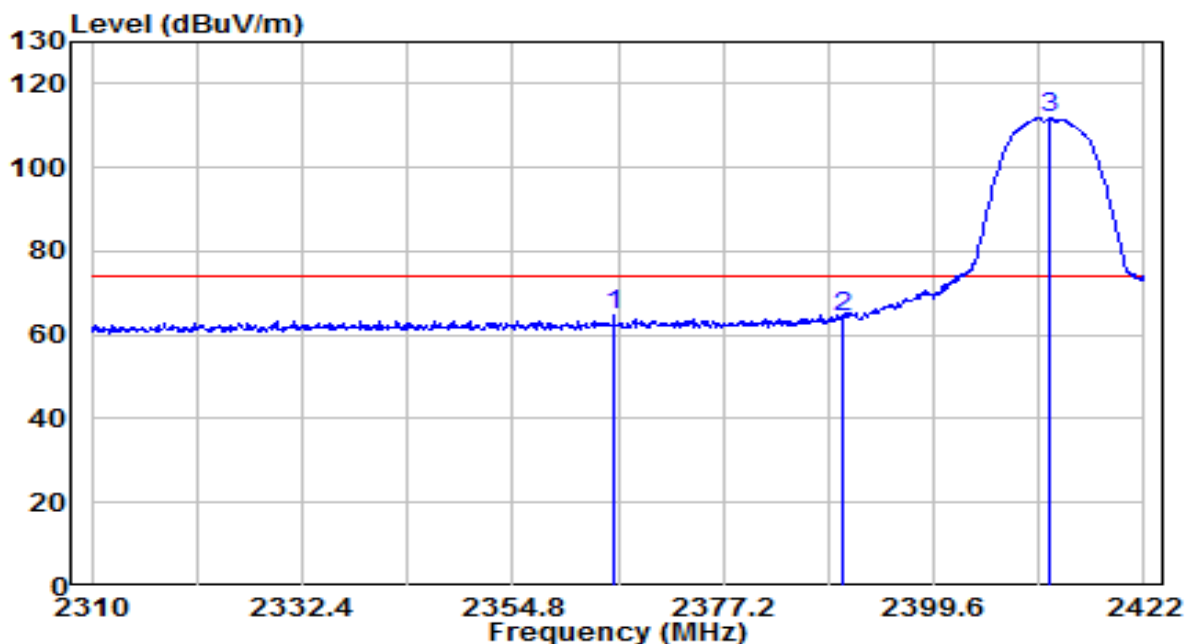


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	15.47	32.30	47.76	-6.24	54.00	Peak
2	* 2411.136	66.36	32.39	98.75	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

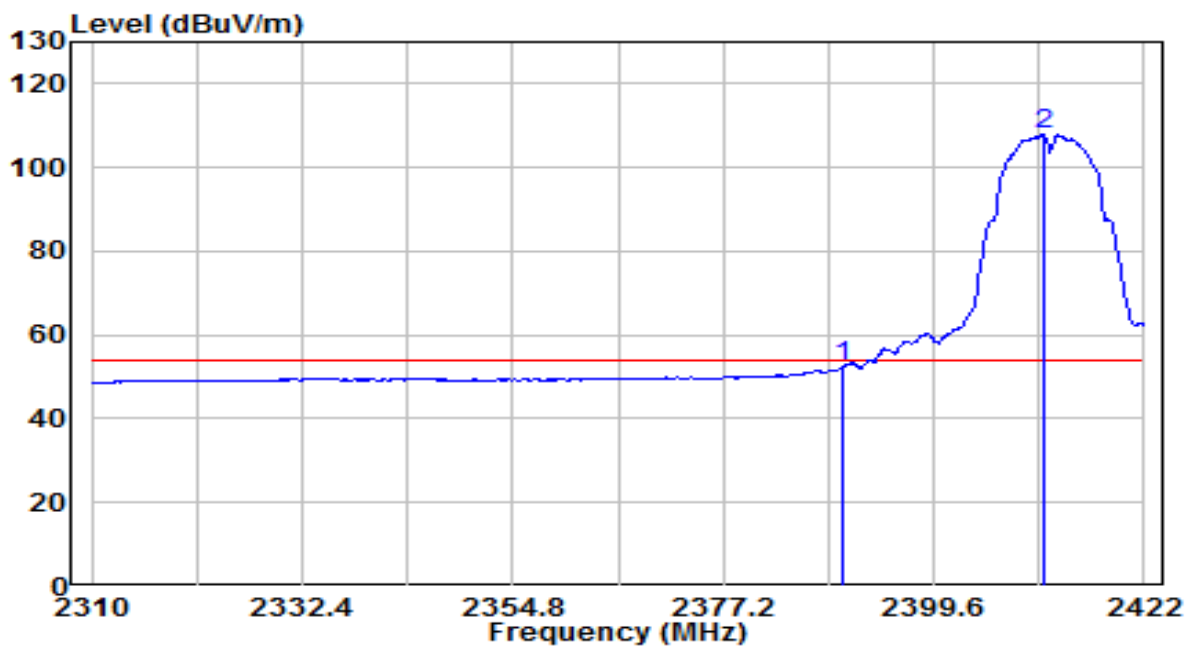


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2365.552	32.80	32.19	64.99	-9.01	74.00	Peak
2	2390.000	31.97	32.30	64.27	-9.73	74.00	Peak
3	* 2412.032	79.58	32.39	111.97	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2412MHz	Test Voltage	110V/60Hz

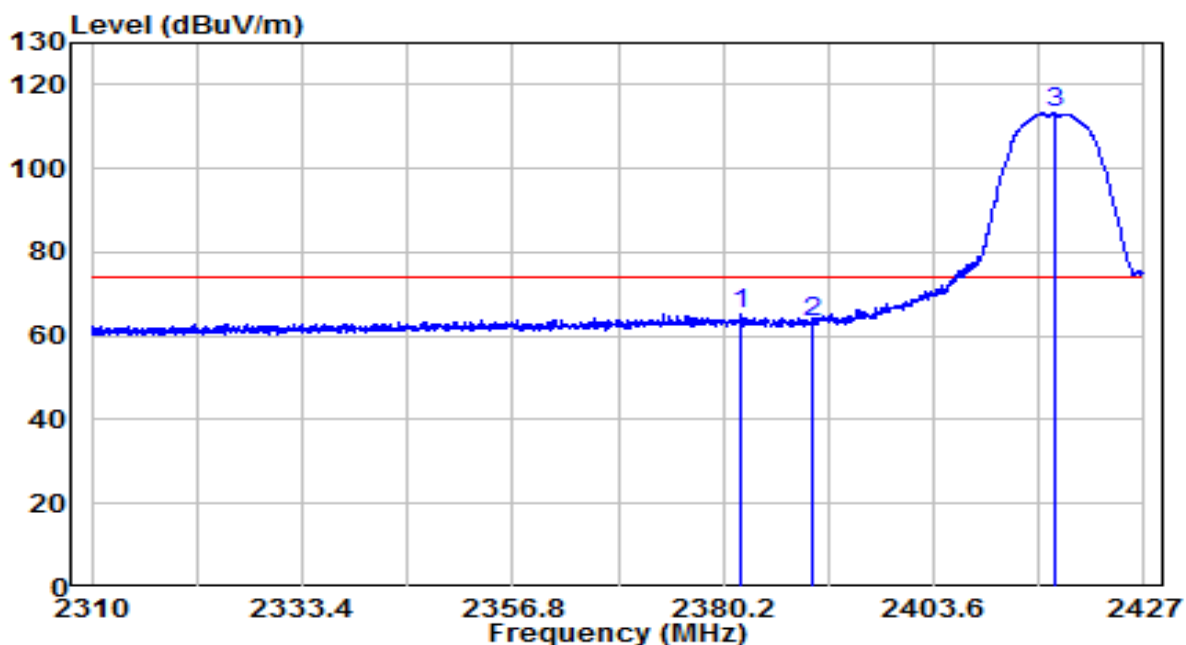


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	20.22	32.30	52.52	-1.48	54.00	Peak
2	* 2411.360	75.43	32.39	107.82	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2417MHz	Test Voltage	110V/60Hz

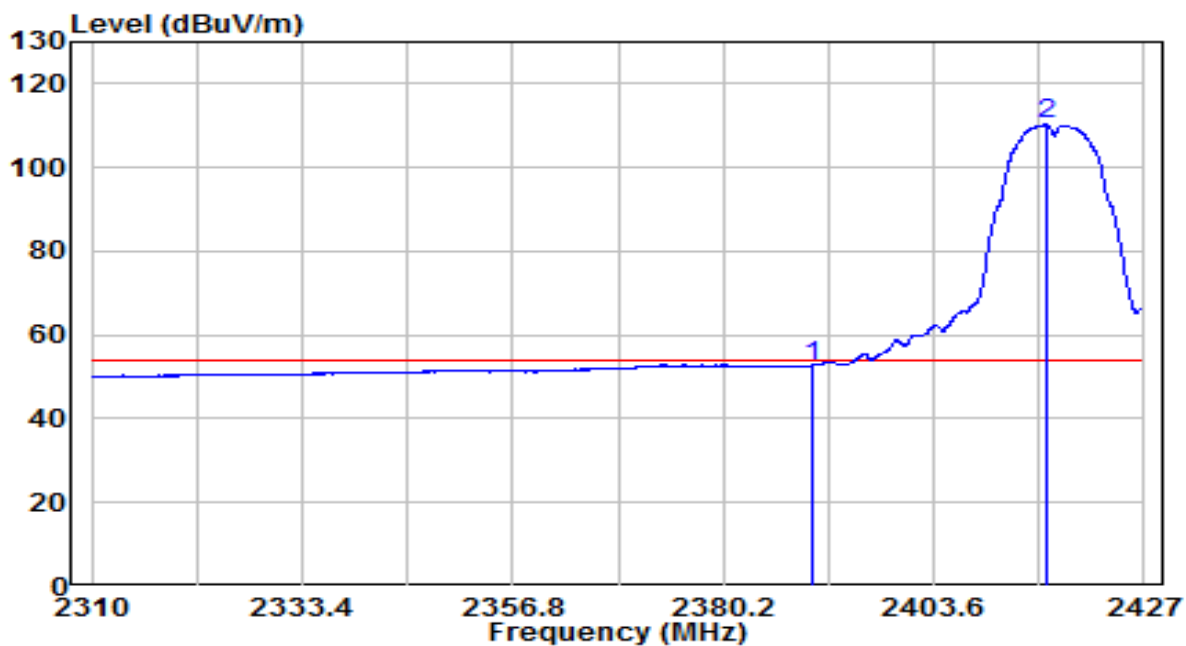


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2382.248	32.88	32.26	65.14	-8.86	74.00	Peak
2	2390.000	31.22	32.30	63.51	-10.49	74.00	Peak
3	* 2416.997	81.11	32.41	113.52	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2417MHz	Test Voltage	110V/60Hz

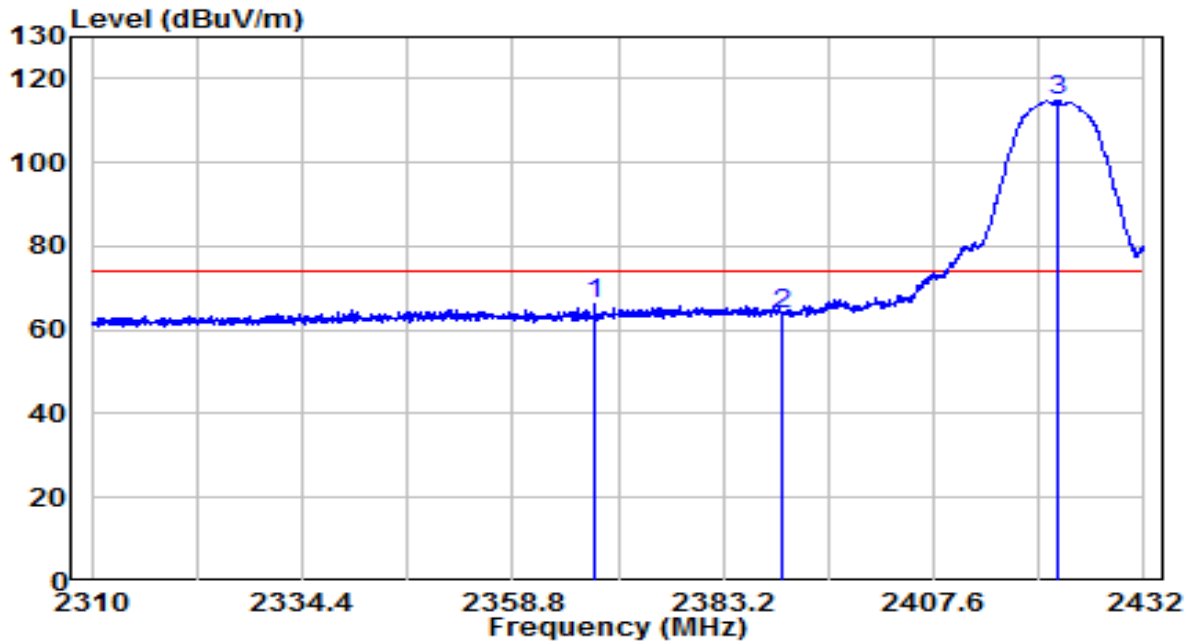


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	20.40	32.30	52.69	-1.31	54.00	Average
2	* 2416.119	77.77	32.41	110.18	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2422MHz	Test Voltage	110V/60Hz

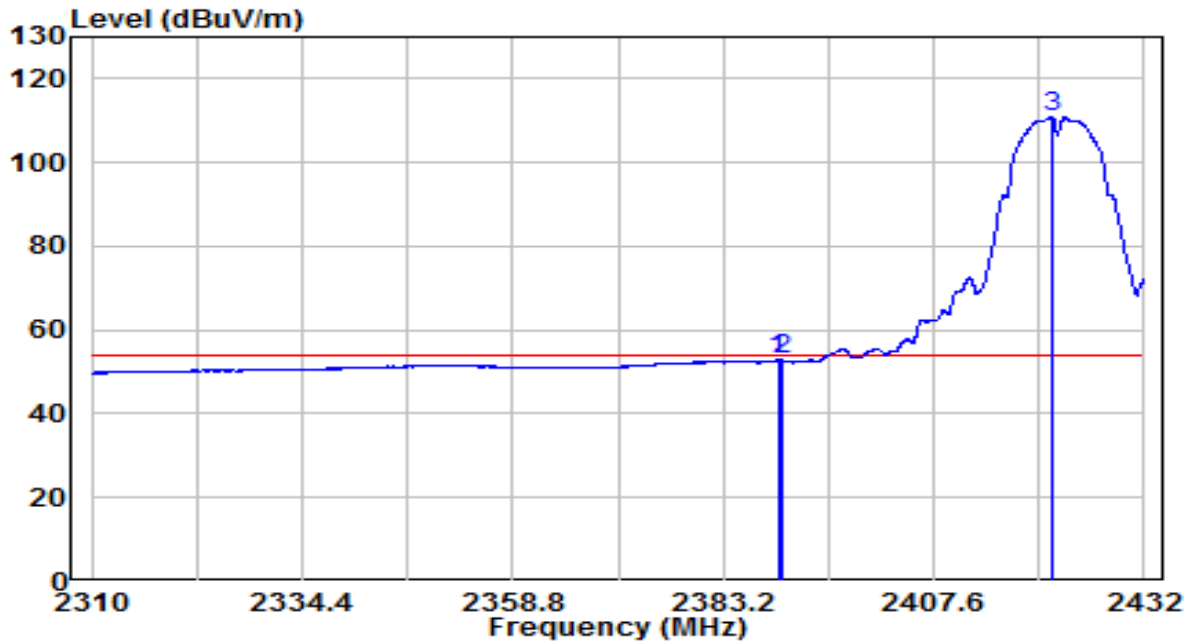


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2368.316	33.85	32.20	66.05	-7.95	74.00	Peak
2	2390.000	31.68	32.30	63.97	-10.03	74.00	Peak
3	* 2421.935	82.45	32.44	114.89	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2422MHz	Test Voltage	110V/60Hz

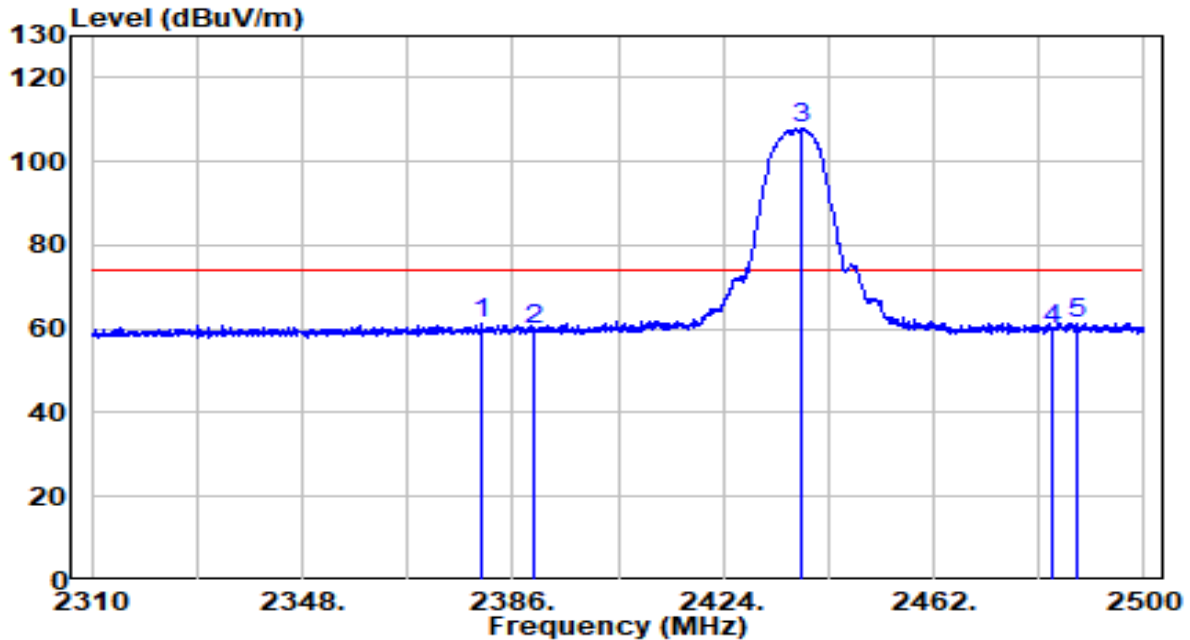


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.544	20.60	32.29	52.90	-1.10	54.00	Average
2	2390.000	20.45	32.30	52.75	-1.25	54.00	Average
3	* 2421.203	78.43	32.43	110.86	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	110V/60Hz

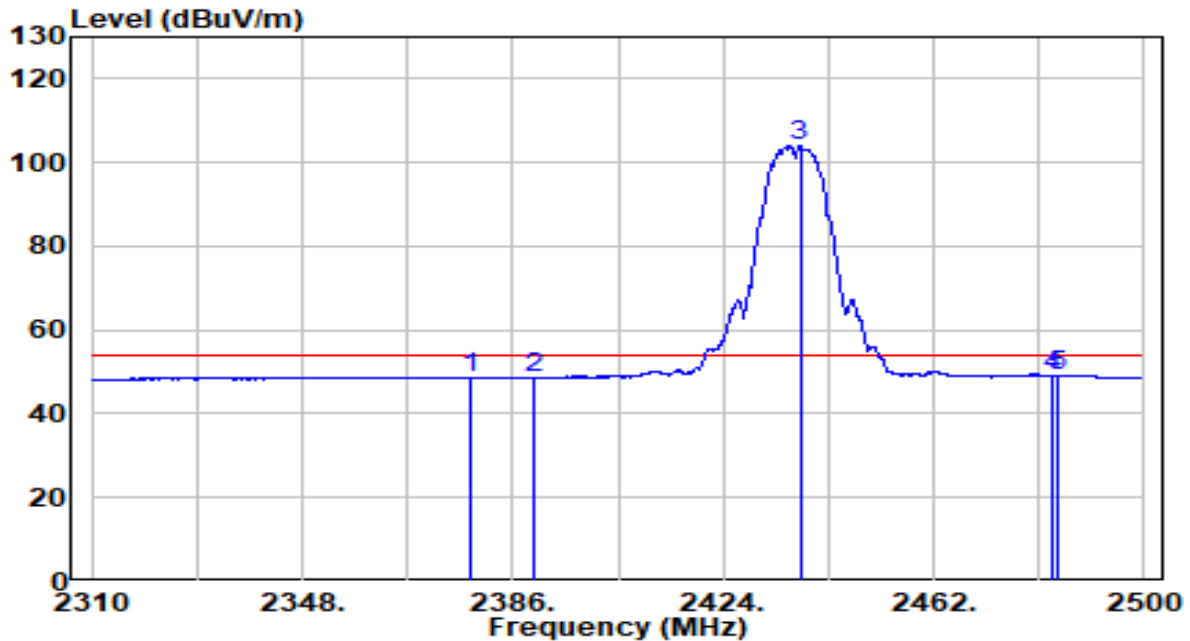


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2380.585	28.85	32.25	61.10	-12.90	74.00	Peak
2	2390.000	27.41	32.30	59.71	-14.29	74.00	Peak
3	* 2438.155	75.26	32.51	107.77	N/A	N/A	Peak
4	2483.500	27.01	32.71	59.72	-14.28	74.00	Peak
5	2487.650	28.73	32.73	61.45	-12.55	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	110V/60Hz

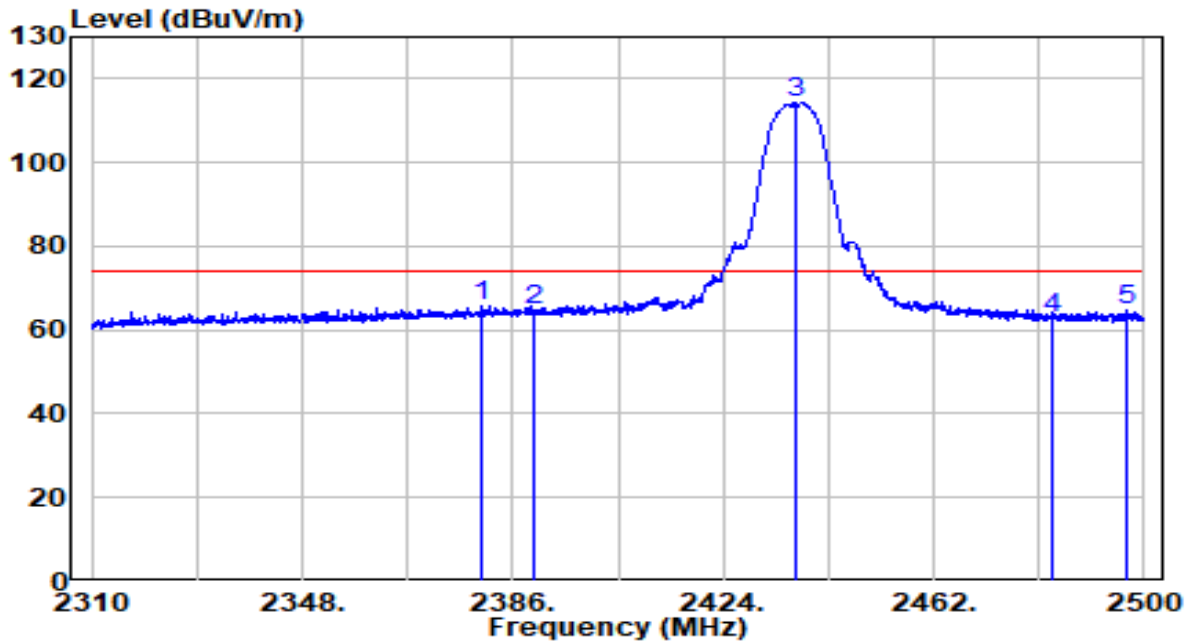


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2378.590	16.47	32.25	48.72	-5.28	54.00	Average
2	2390.000	16.31	32.30	48.61	-5.39	54.00	Average
3	* 2437.870	71.42	32.51	103.93	N/A	N/A	Average
4	2483.500	16.51	32.71	49.22	-4.78	54.00	Average
5	2484.420	16.52	32.71	49.23	-4.77	54.00	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	110V/60Hz

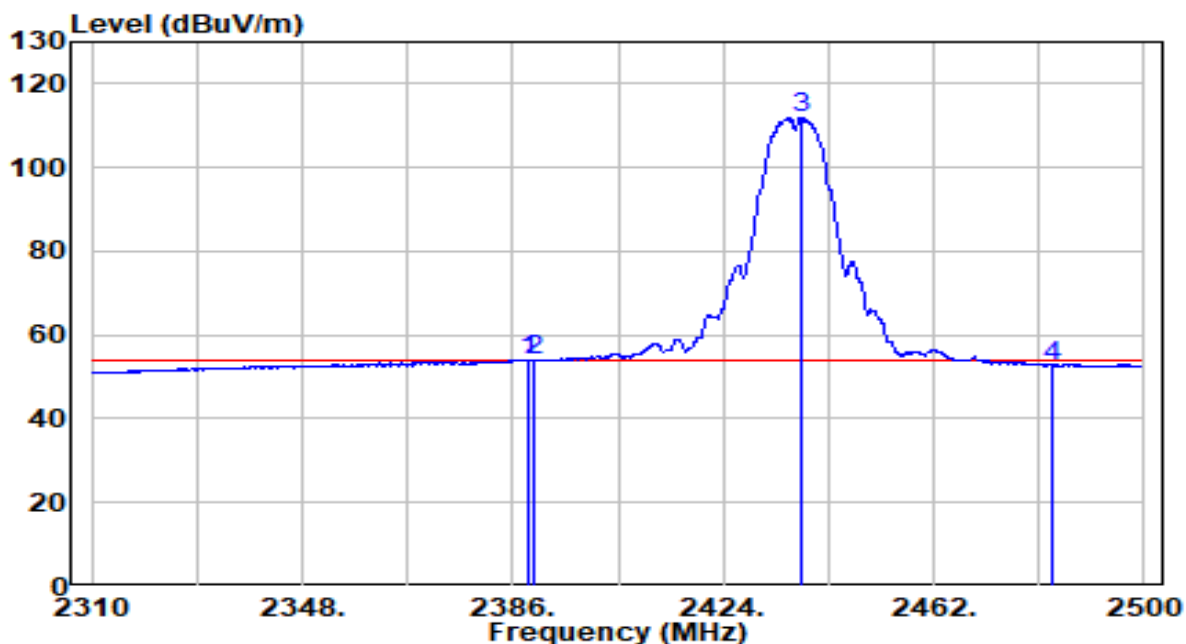


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2380.585	33.68	32.25	65.93	-8.07	74.00	Peak
2	2390.000	32.40	32.30	64.69	-9.31	74.00	Peak
3	* 2437.015	82.01	32.50	114.51	N/A	N/A	Peak
4	2483.500	30.29	32.71	62.99	-11.01	74.00	Peak
5	2496.675	31.89	32.77	64.66	-9.34	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2437MHz	Test Voltage	110V/60Hz

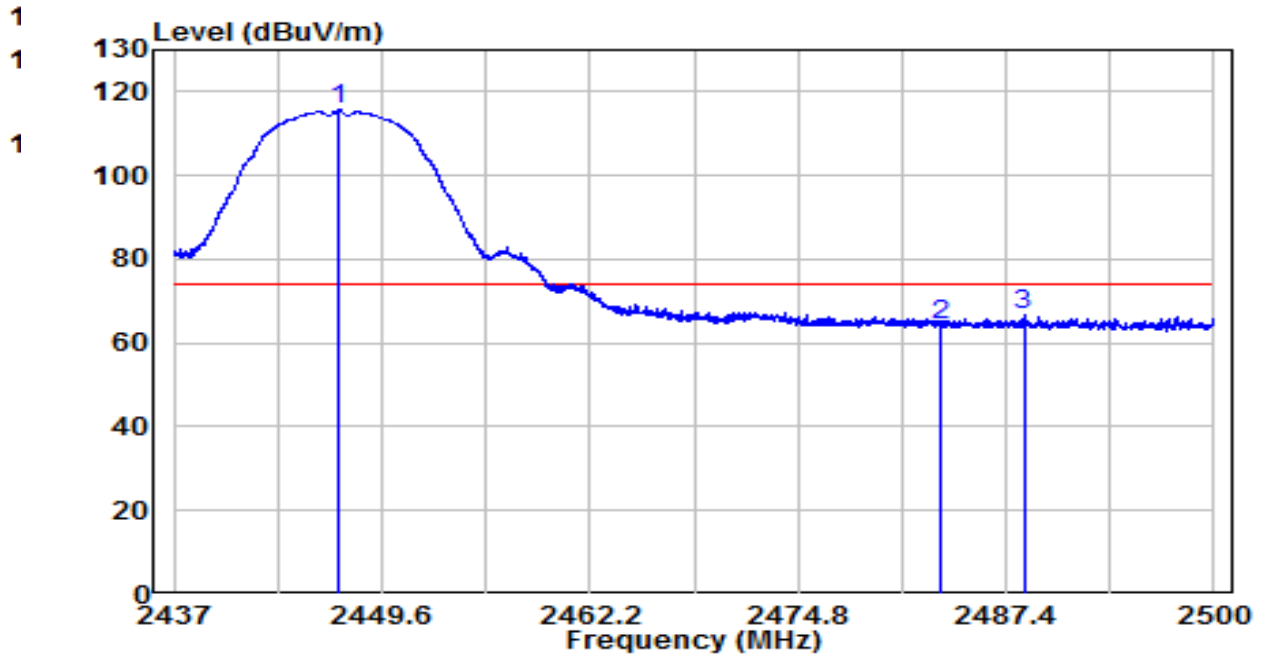


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.040	21.65	32.29	53.95	-0.05	54.00	Average
2	2390.000	21.63	32.30	53.92	-0.08	54.00	Average
3	* 2438.060	79.32	32.51	111.82	N/A	N/A	Average
4	2483.500	19.93	32.71	52.64	-1.36	54.00	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Tommy Tang
Test Mode	Transmit by 802.11b at Channel 2447MHz	Test Voltage	110V/60Hz

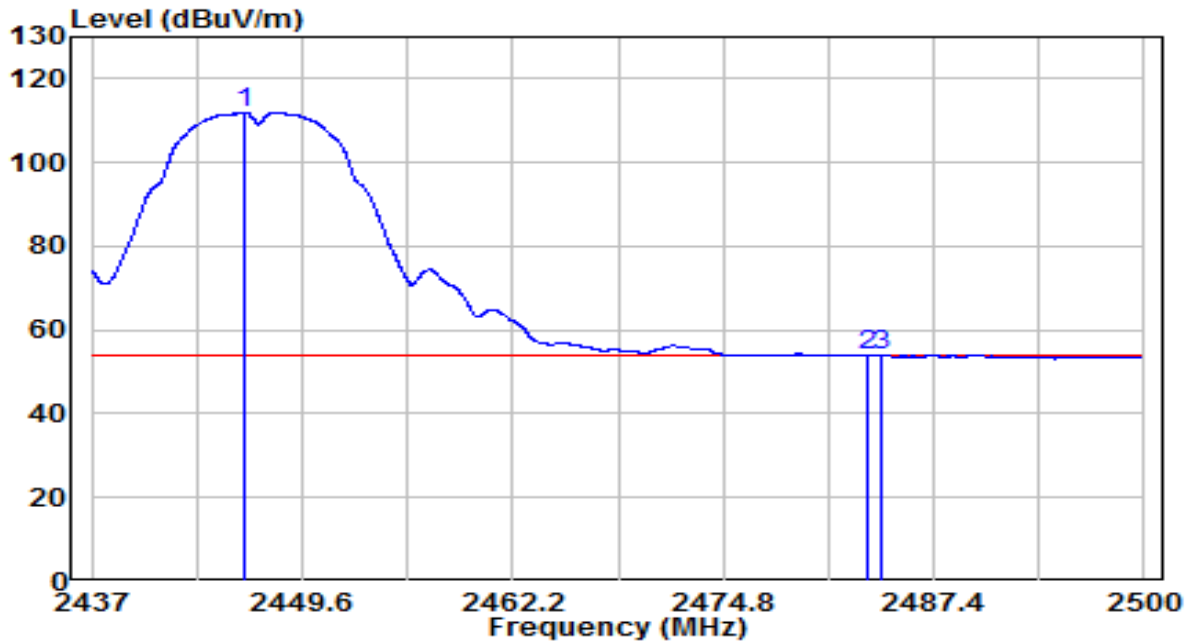


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2446.954	83.05	32.55	115.60	N/A	N/A	Peak
2		2483.500	31.47	32.71	64.18	-9.82	74.00	Peak
3		2488.471	33.76	32.73	66.49	-7.51	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Tommy Tang
Test Mode	Transmit by 802.11b at Channel 2447MHz	Test Voltage	110V/60Hz

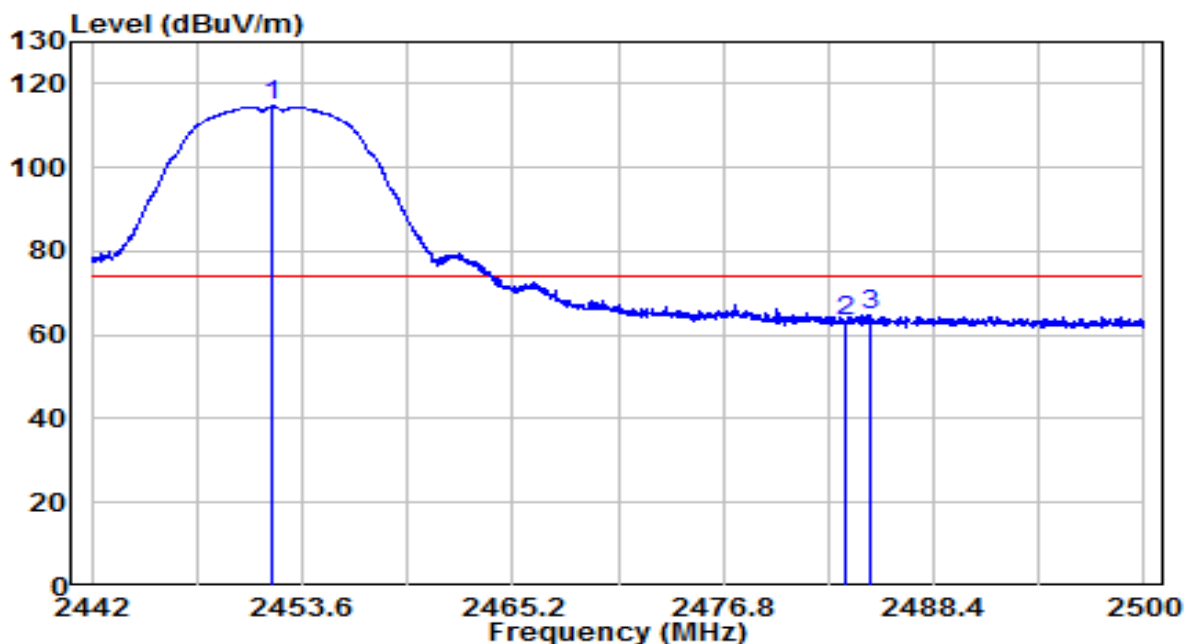


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2446.135	79.45	32.54	111.99	N/A	N/A	Average
2		2483.500	21.06	32.71	53.76	-0.24	54.00	Average
3		2484.281	21.16	32.71	53.87	-0.13	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Tommy Tang
Test Mode	Transmit by 802.11b at Channel 2452MHz	Test Voltage	110V/60Hz

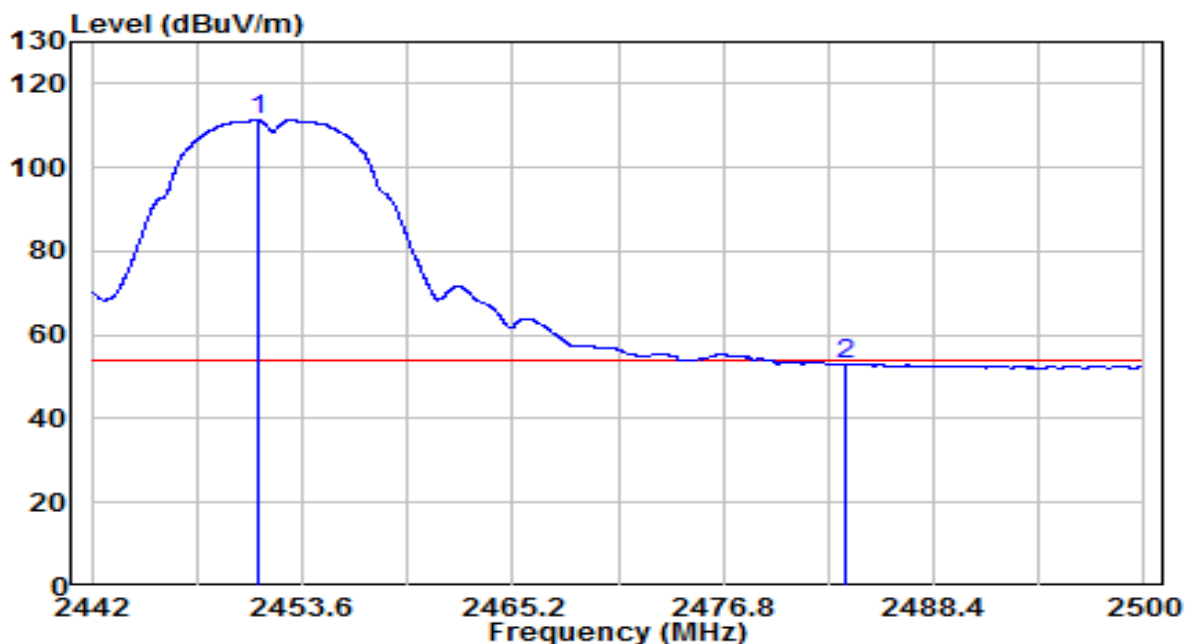


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2451.976	82.13	32.57	114.70	N/A	N/A	Peak
2		2483.500	30.81	32.71	63.52	-10.48	74.00	Peak
3		2484.891	31.98	32.71	64.70	-9.30	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Tommy Tang
Test Mode	Transmit by 802.11b at Channel 2452MHz	Test Voltage	110V/60Hz

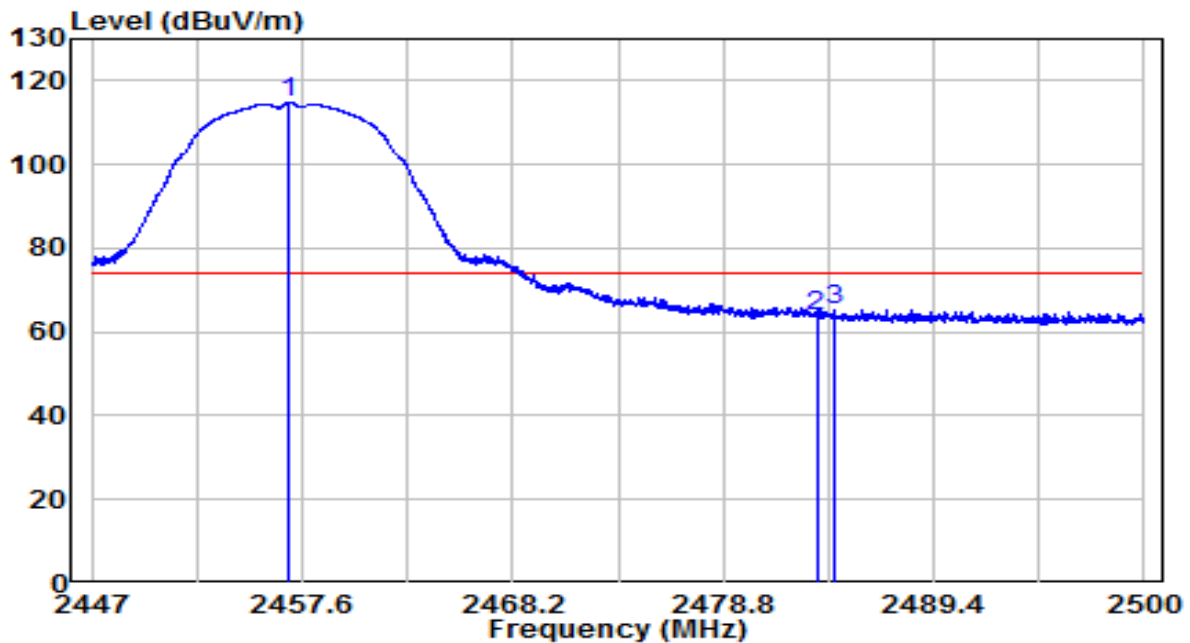


No		Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Remark (QP/PK/AV)
1	*	2451.135	78.88	32.56	111.44	N/A	N/A	Average
2		2483.500	20.40	32.71	53.10	-0.90	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Tommy Tang
Test Mode	Transmit by 802.11b at Channel 2457MHz	Test Voltage	110V/60Hz

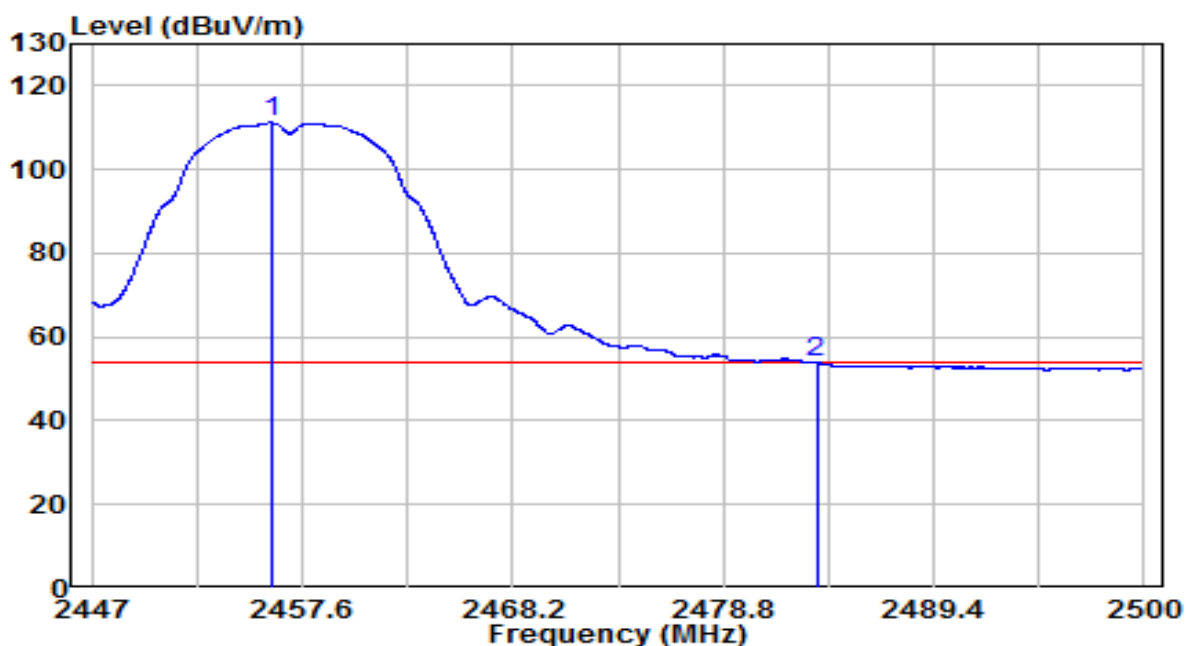


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2456.964	82.19	32.59	114.78	N/A	N/A	Peak
2		2483.500	31.00	32.71	63.71	-10.29	74.00	Peak
3		2484.392	32.70	32.71	65.41	-8.59	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-14
Factor	BBHA 9120D	Temp. / Humidity	24.5°C/52.1%
Polarity	Vertical	Site / Test Engineer	AC1 / Tommy Tang
Test Mode	Transmit by 802.11b at Channel 2457MHz	Test Voltage	110V/60Hz

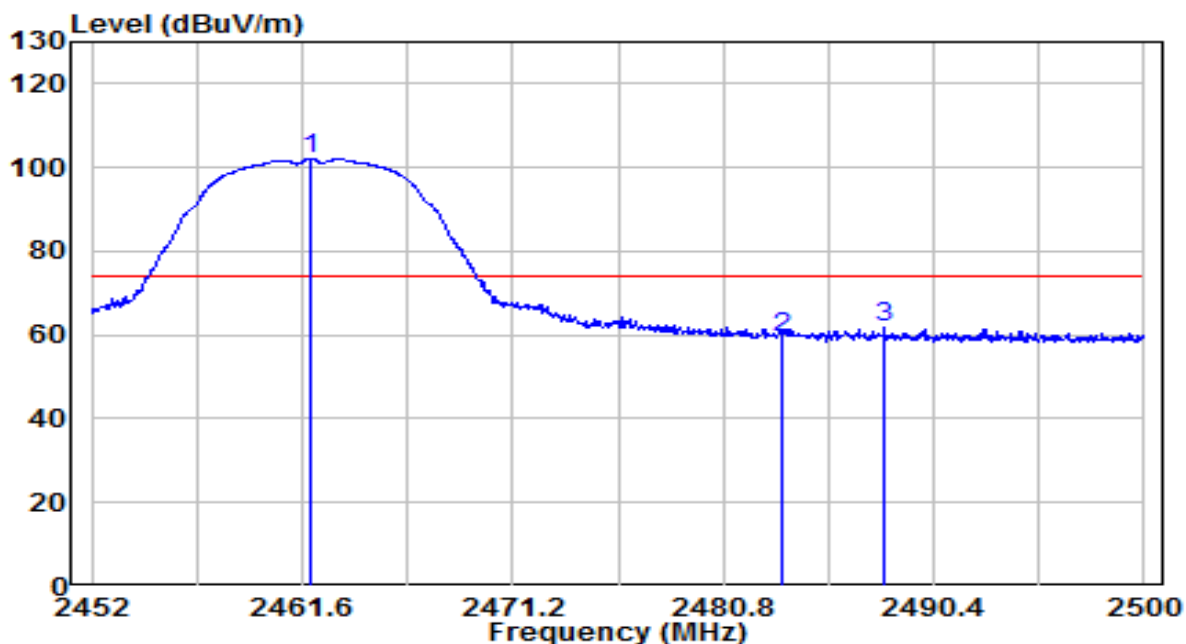


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2456.116	78.68	32.59	111.27	N/A	N/A	Average
2		2483.500	21.16	32.71	53.87	-0.13	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	110V/60Hz

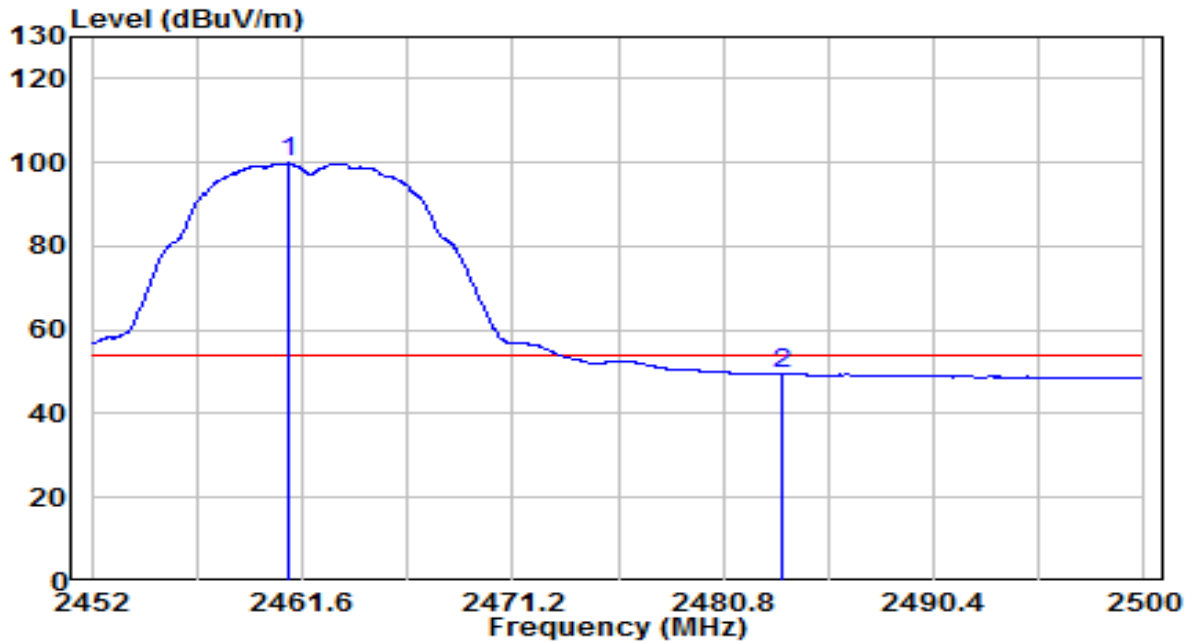


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.936	69.56	32.61	102.17	N/A	N/A	Peak
2		2483.500	26.82	32.71	59.53	-14.47	74.00	Peak
3		2488.192	28.92	32.73	61.65	-12.35	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	110V/60Hz

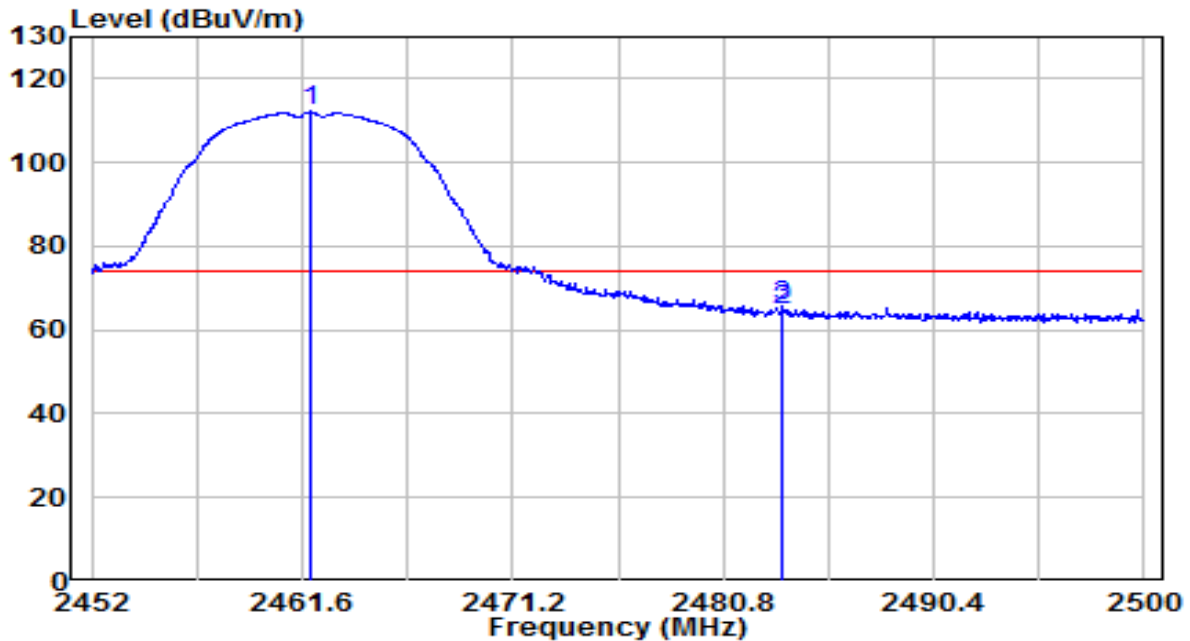


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.976	67.24	32.61	99.85	N/A	N/A	Peak
2		2483.500	16.88	32.71	49.59	-4.41	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	110V/60Hz

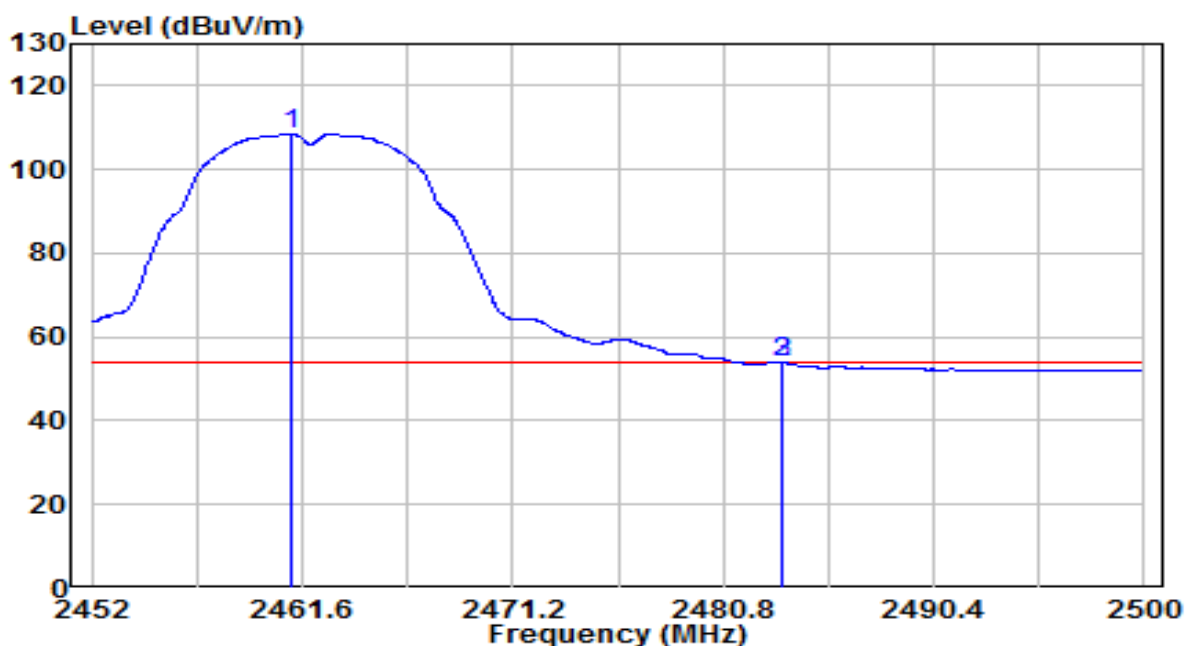


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.936	79.51	32.61	112.12	N/A	N/A	Peak
2		2483.500	32.16	32.71	64.86	-9.14	74.00	Peak
3		2483.536	32.87	32.71	65.58	-8.42	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-07
Factor	BBHA 9120D	Temp. / Humidity	24.1°C/45.0%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11b at Channel 2462MHz	Test Voltage	110V/60Hz

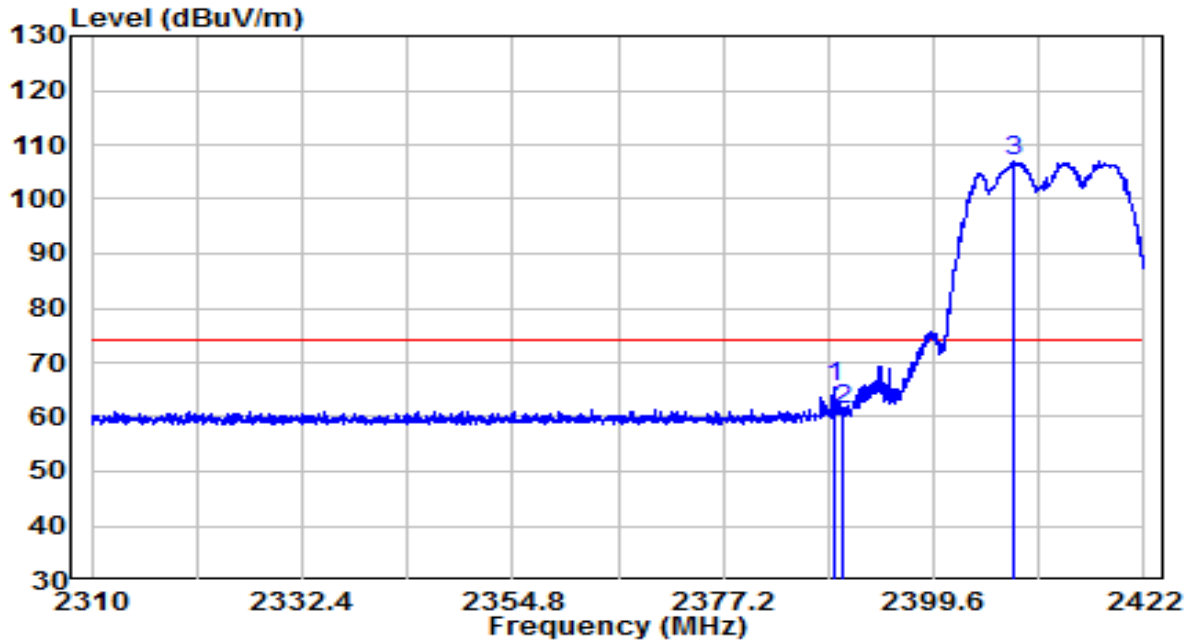


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2461.120	75.81	32.61	108.42	N/A	N/A	Peak
2		2483.500	21.20	32.71	53.90	-0.10	54.00	Peak
3		2483.536	21.15	32.71	53.86	-0.14	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	110V/60Hz

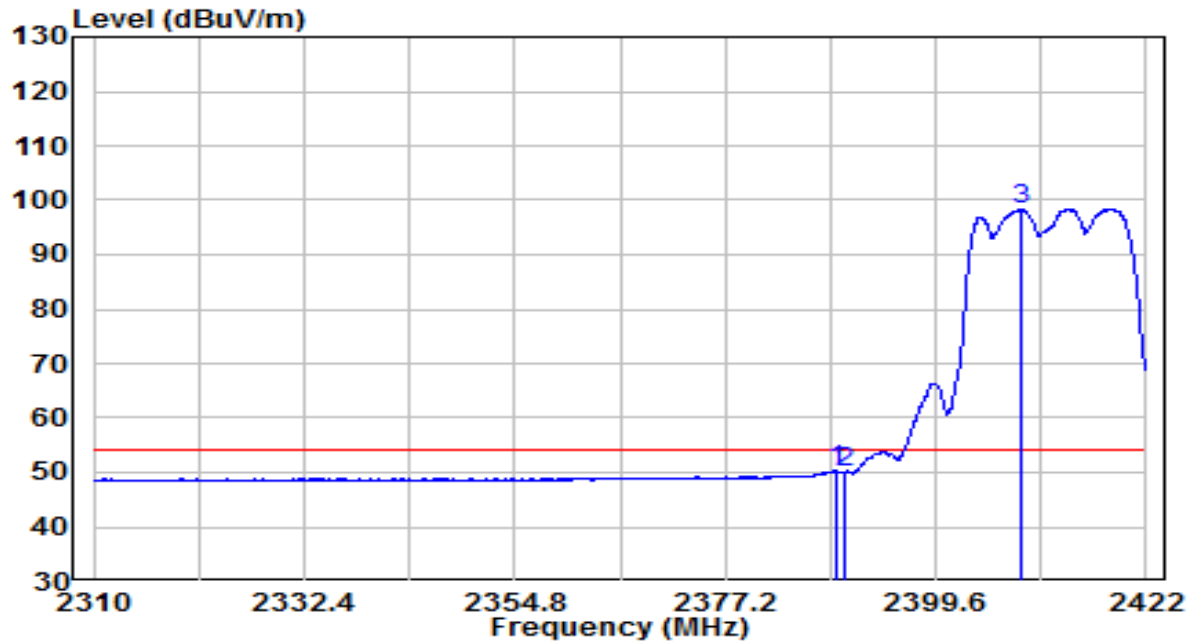


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.072	33.02	32.29	65.32	-8.68	74.00	Peak
2	2390.000	28.97	32.30	61.26	-12.74	74.00	Peak
3	* 2408.000	74.48	32.38	106.85	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	110V/60Hz

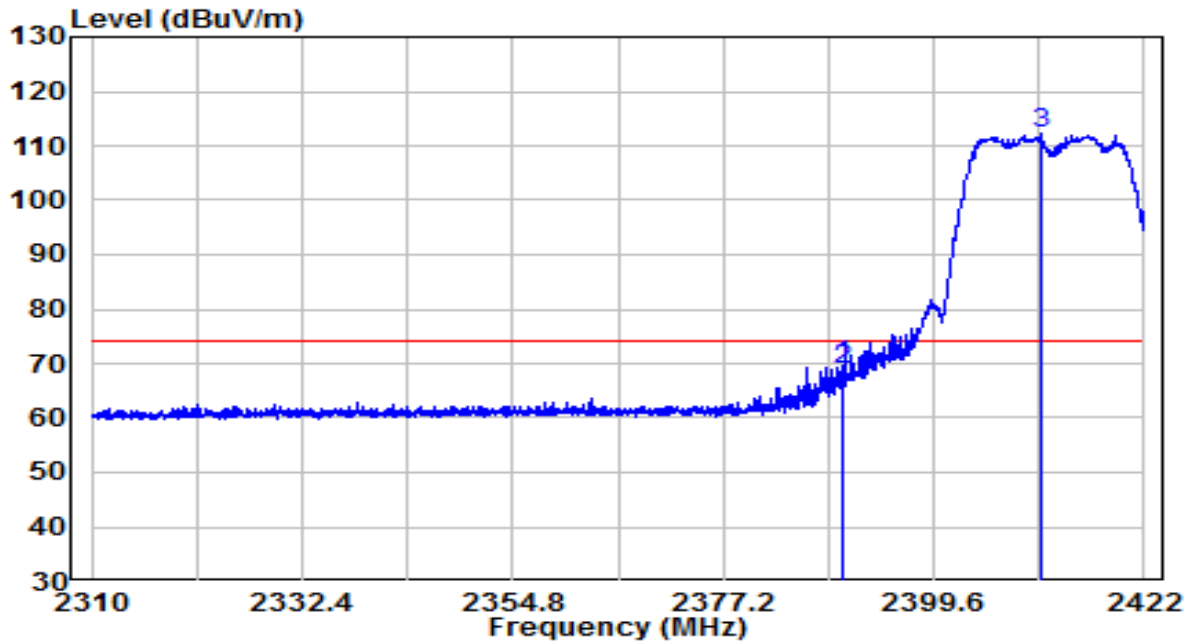


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.016	17.91	32.29	50.20	-3.80	54.00	Peak
2	2390.000	17.86	32.30	50.16	-3.84	54.00	Peak
3	* 2408.784	66.05	32.38	98.43	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	110V/60Hz

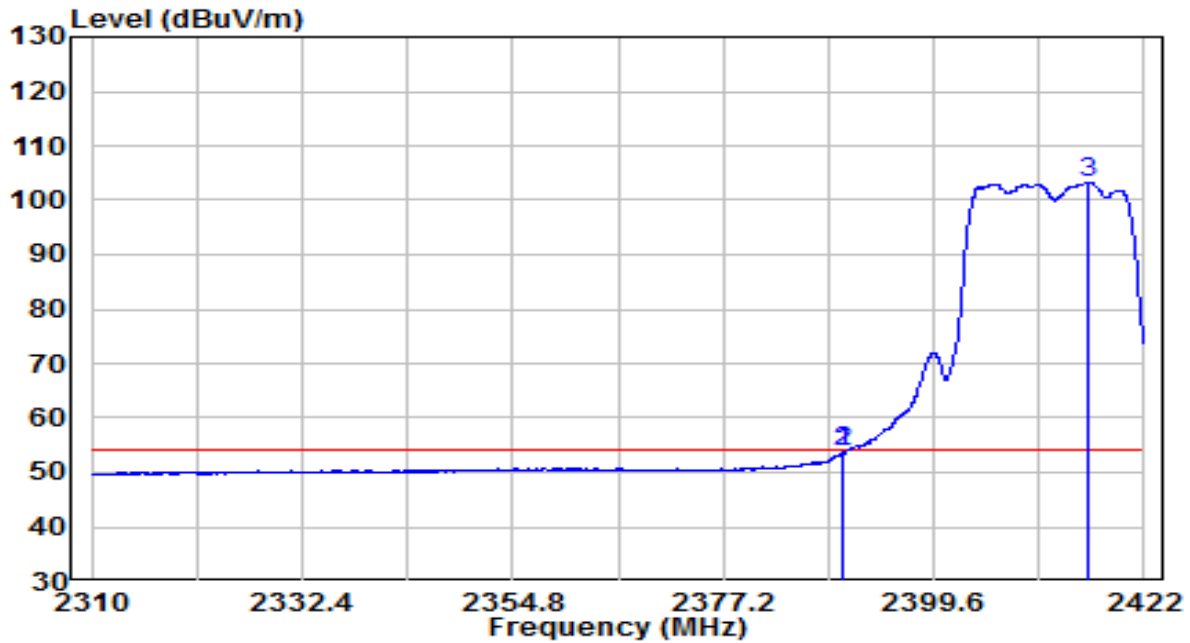


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.856	37.15	32.30	69.44	-4.56	74.00	Peak
2	2390.000	36.54	32.30	68.83	-5.17	74.00	Peak
3	* 2410.968	79.75	32.39	112.14	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2412MHz	Test Voltage	110V/60Hz

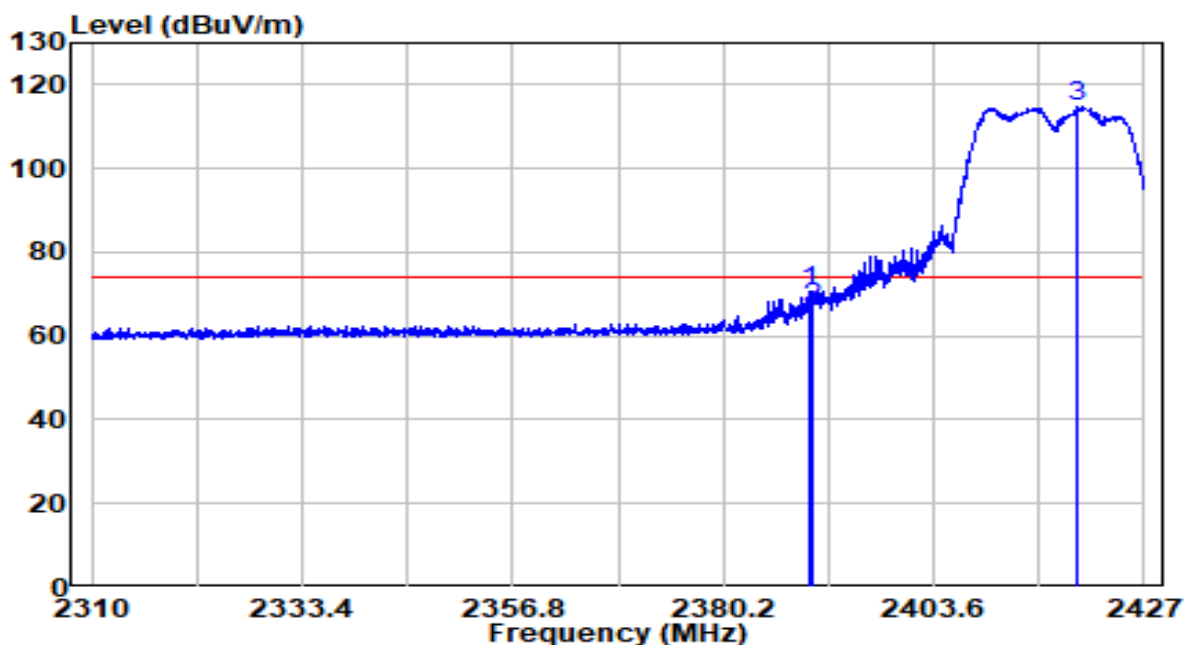


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	21.30	32.30	53.60	-0.40	54.00	Peak
2	2390.024	21.30	32.30	53.60	-0.40	54.00	Peak
3	* 2415.896	70.83	32.41	103.24	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2417MHz	Test Voltage	110V/60Hz

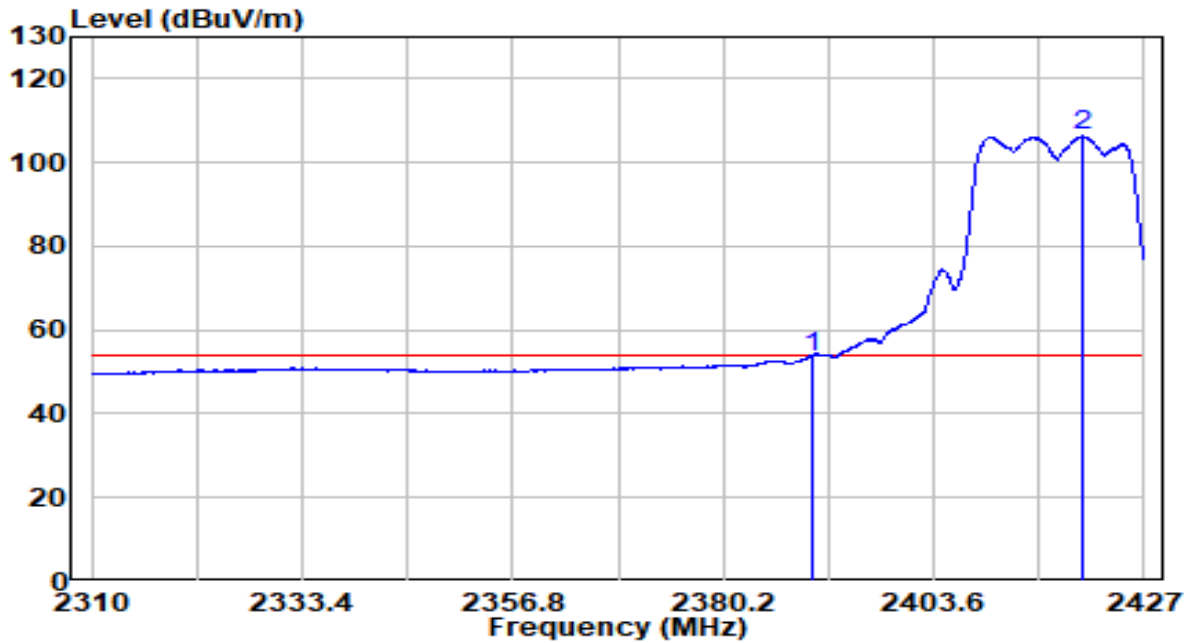


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.853	38.22	32.30	70.51	-3.49	74.00	Peak
2	2390.000	34.50	32.30	66.79	-7.21	74.00	Peak
3	* 2419.629	82.59	32.43	115.02	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2417MHz	Test Voltage	110V/60Hz

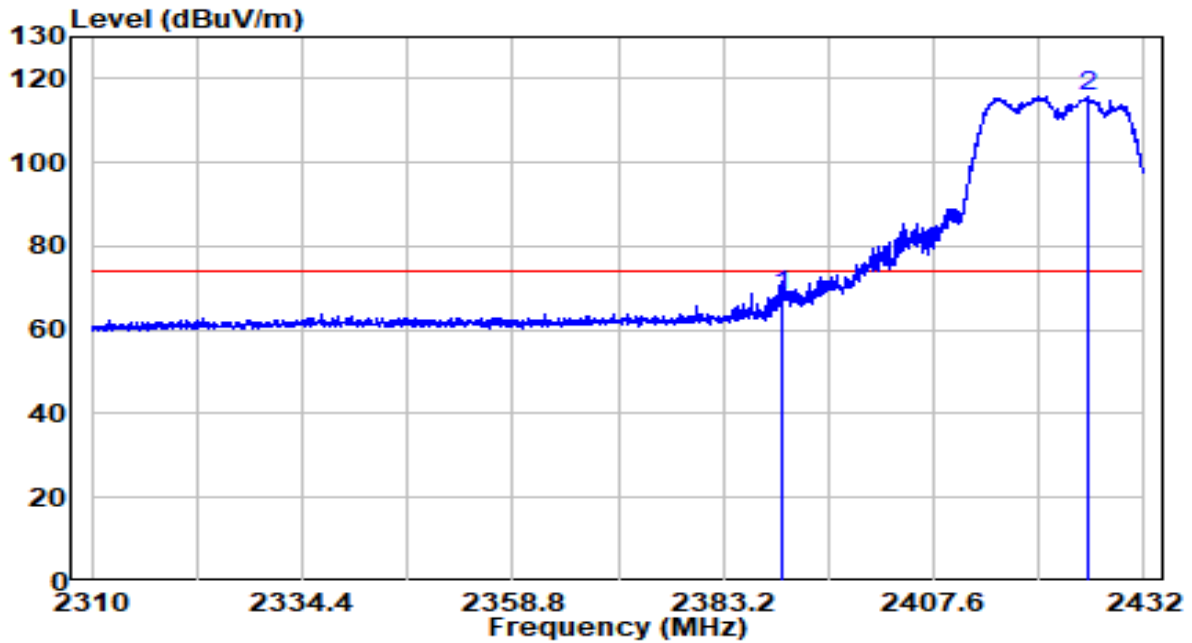


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	21.42	32.30	53.72	-0.28	54.00	Average
2	* 2420.214	73.78	32.43	106.21	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2422MHz	Test Voltage	110V/60Hz

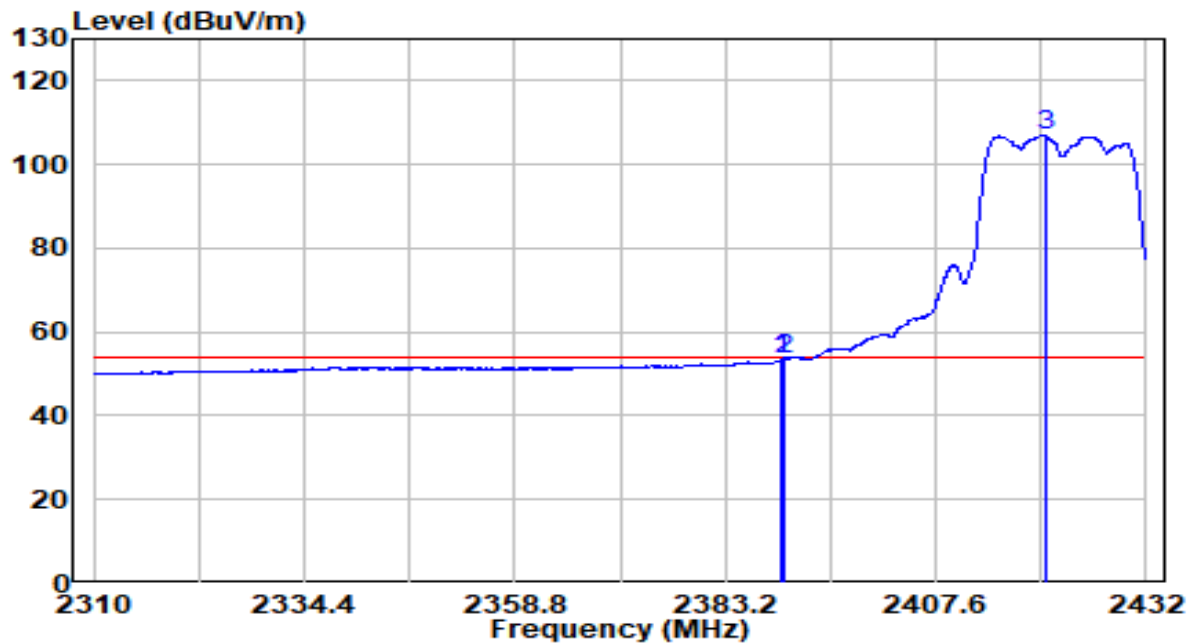


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	36.00	32.30	68.30	-5.70	74.00	Peak
2	* 2425.595	83.46	32.45	115.91	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2422MHz	Test Voltage	110V/60Hz

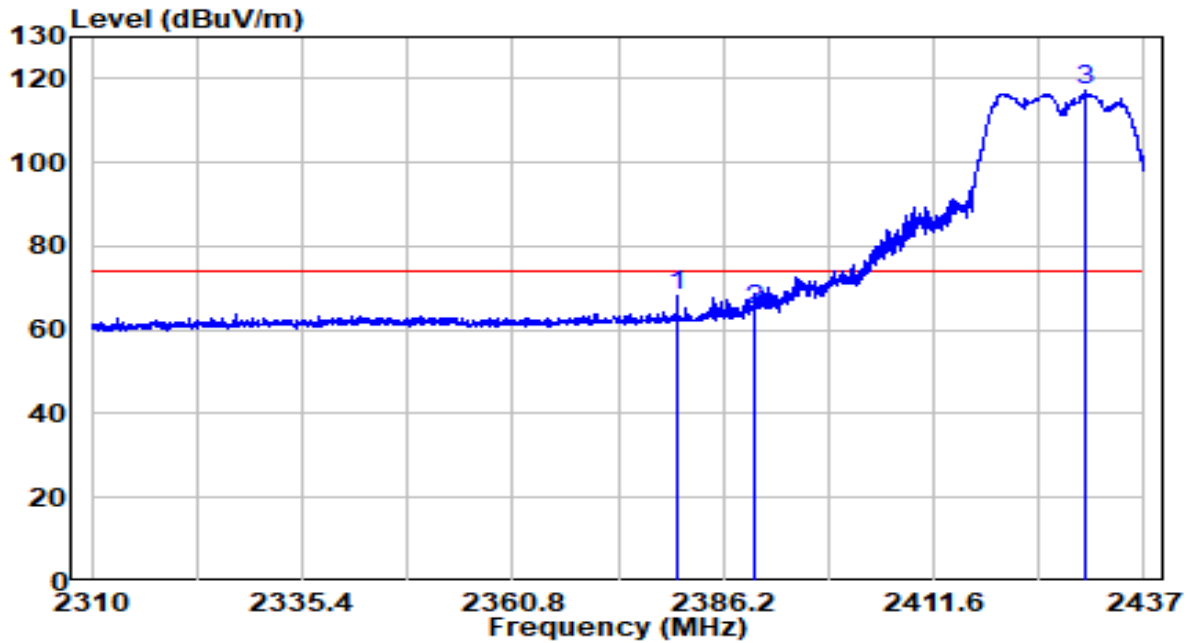


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.849	21.27	32.30	53.56	-0.44	54.00	Average
2	2390.000	21.20	32.30	53.50	-0.50	54.00	Average
3	* 2420.288	74.52	32.43	106.95	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2427MHz	Test Voltage	110V/60Hz

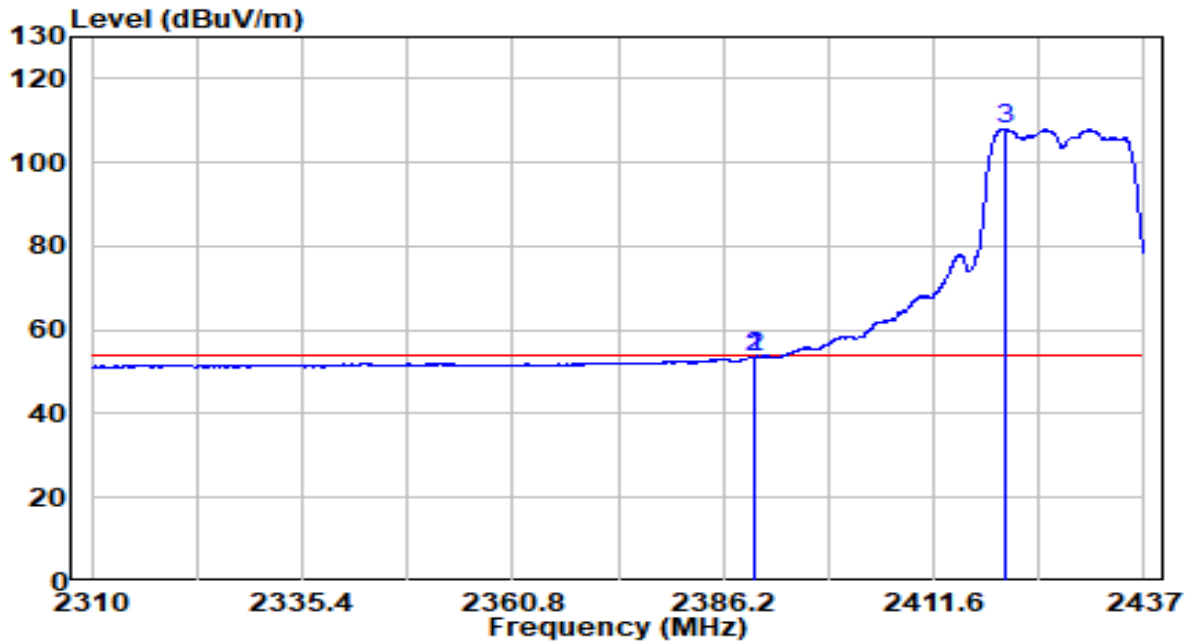


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2380.739	35.73	32.26	67.99	-6.01	74.00	Peak
2	2390.000	32.28	32.30	64.57	-9.43	74.00	Peak
3	* 2429.761	84.75	32.47	117.22	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2427MHz	Test Voltage	110V/60Hz

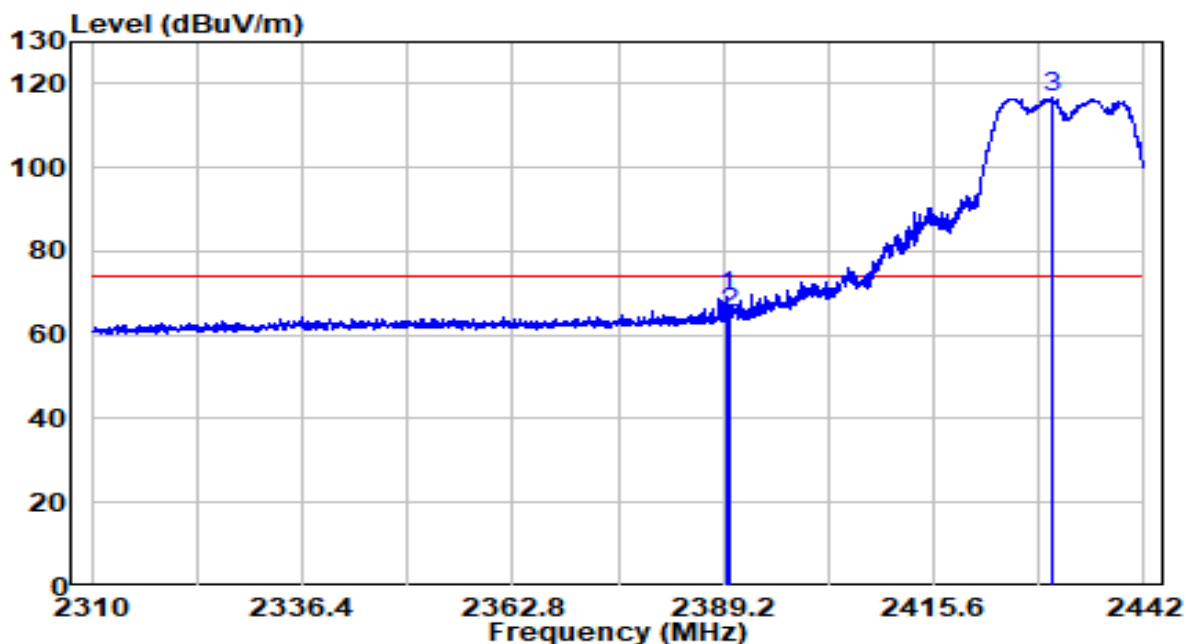


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.820	21.30	32.30	53.59	-0.41	54.00	Average
2	2390.000	21.35	32.30	53.65	-0.35	54.00	Average
3	* 2420.300	75.54	32.43	107.97	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2432MHz	Test Voltage	110V/60Hz

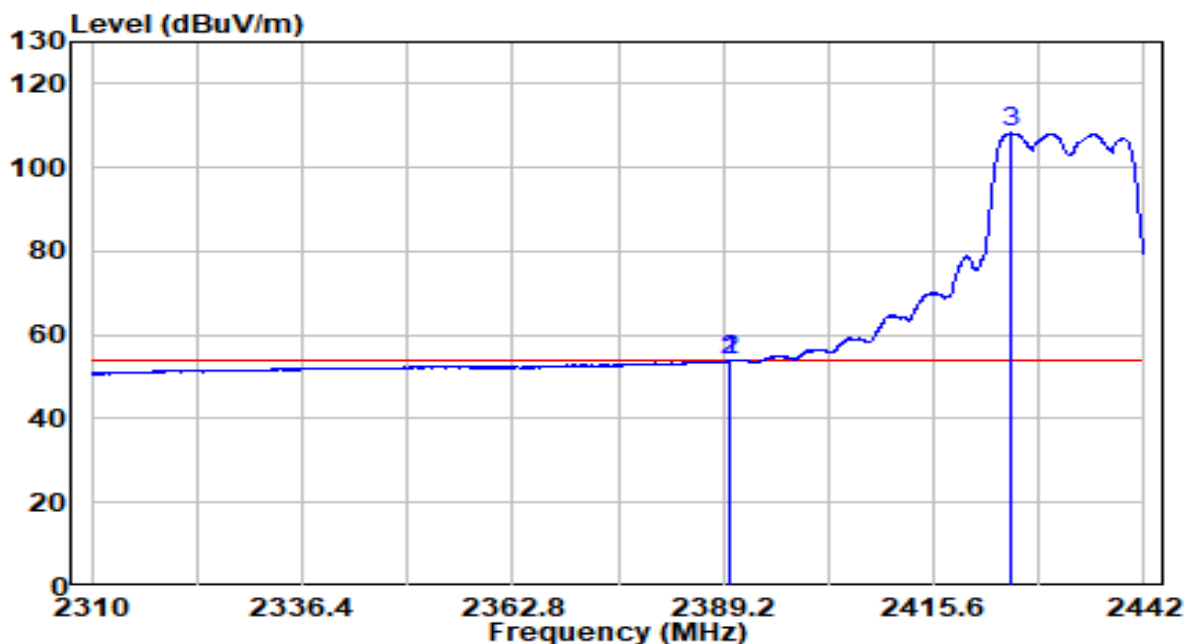


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.728	36.71	32.29	69.00	-5.00	74.00	Peak
2	2390.000	33.01	32.30	65.31	-8.69	74.00	Peak
3	* 2430.384	84.26	32.47	116.73	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2432MHz	Test Voltage	110V/60Hz

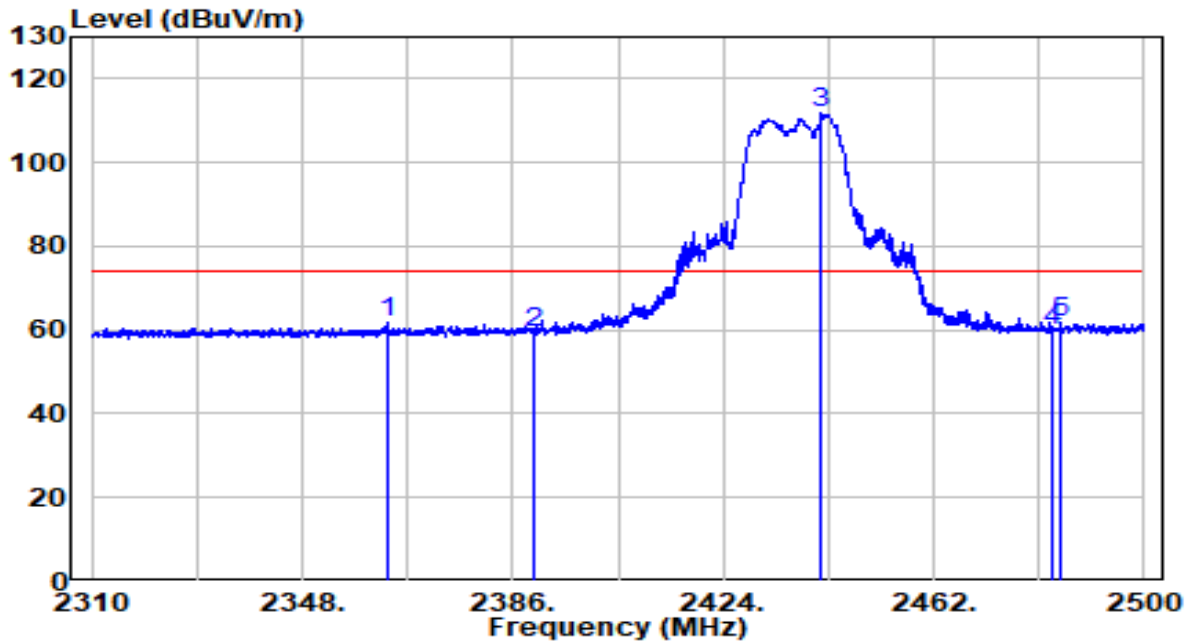


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	21.50	32.30	53.80	-0.20	54.00	Average
2	2390.058	21.55	32.30	53.85	-0.15	54.00	Average
3	* 2425.368	75.75	32.45	108.20	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	110V/60Hz

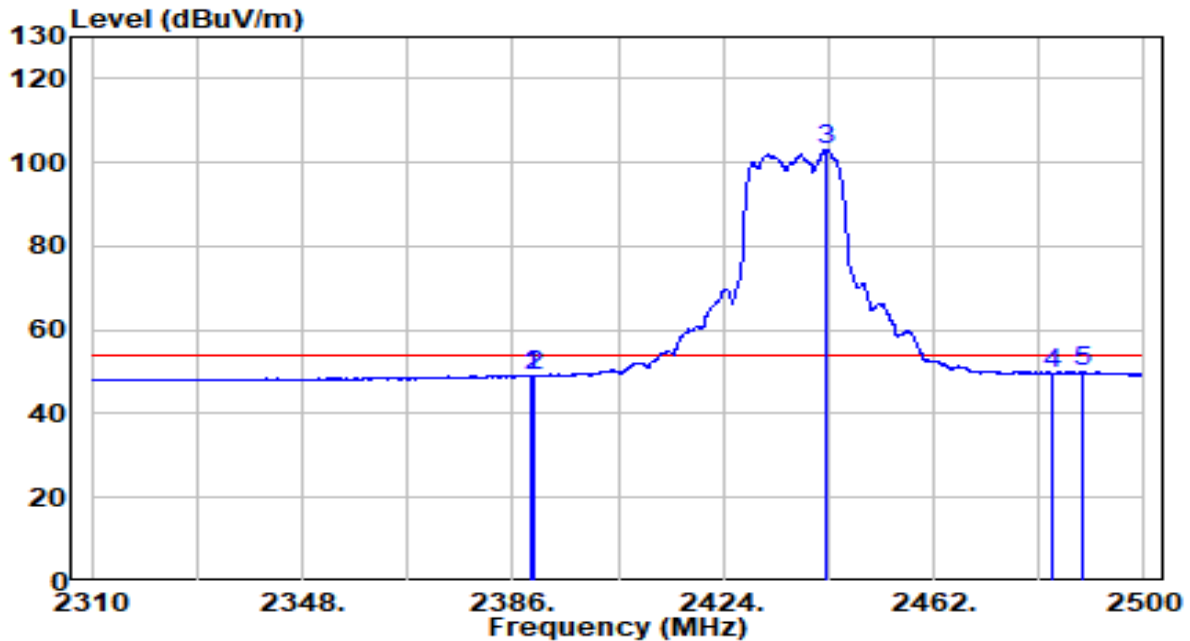


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2363.485	29.63	32.18	61.81	-12.19	74.00	Peak
2	2390.000	27.03	32.30	59.33	-14.67	74.00	Peak
3	* 2441.765	79.48	32.52	112.00	N/A	N/A	Peak
4	2483.500	27.29	32.71	59.99	-14.01	74.00	Peak
5	2484.895	28.86	32.71	61.58	-12.42	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	110V/60Hz

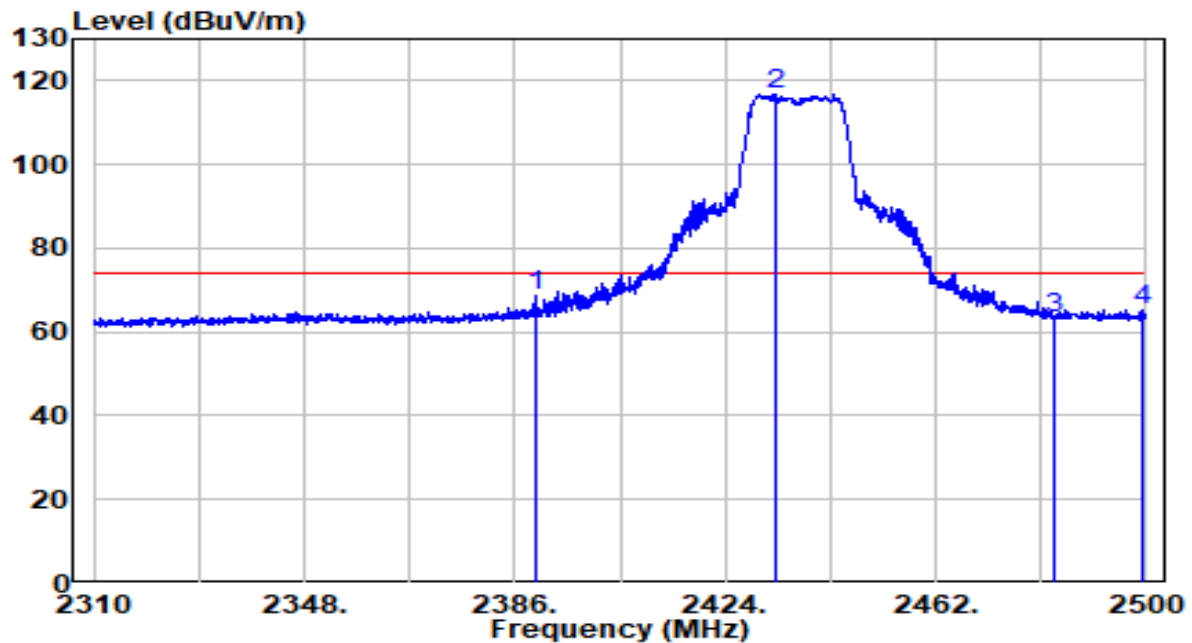


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.135	16.99	32.29	49.28	-4.72	54.00	Average
2	2390.000	16.75	32.30	49.05	-4.95	54.00	Average
3	* 2442.620	70.51	32.53	103.04	N/A	N/A	Average
4	2483.500	16.93	32.71	49.64	-4.36	54.00	Average
5	2489.075	17.23	32.73	49.96	-4.04	54.00	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	110V/60Hz

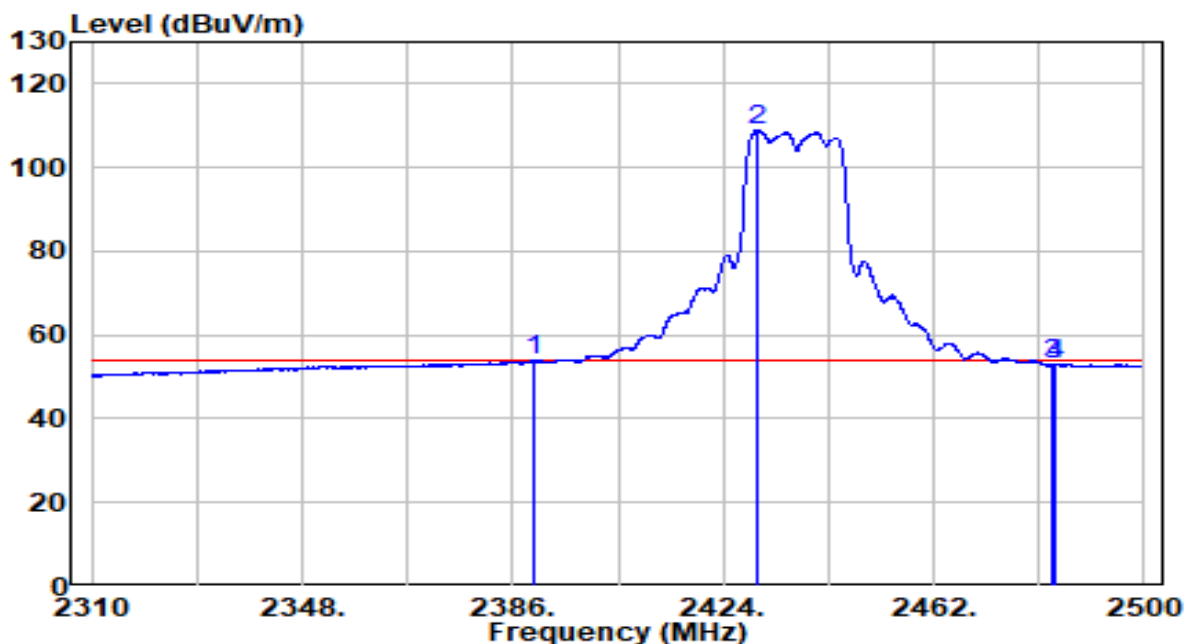


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	36.41	32.30	68.71	-5.29	74.00	Peak
2	* 2433.025	84.30	32.49	116.79	N/A	N/A	Peak
3	2483.500	30.45	32.71	63.16	-10.84	74.00	Peak
4	2499.430	32.45	32.78	65.23	-8.77	74.00	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2437MHz	Test Voltage	110V/60Hz

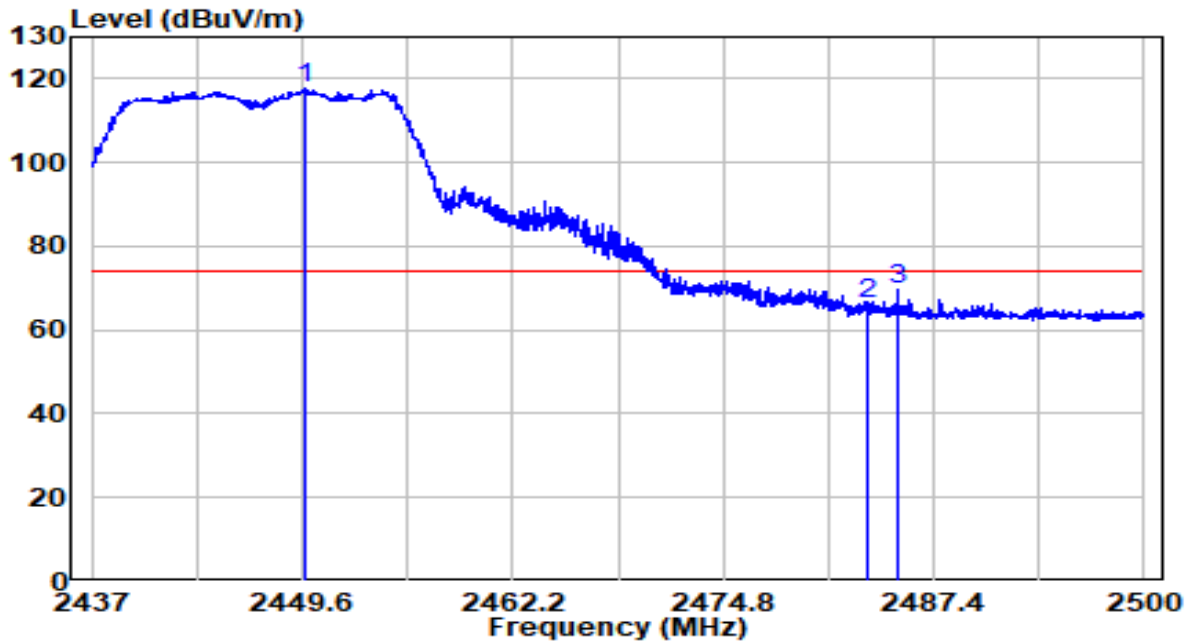


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	21.48	32.30	53.77	-0.23	54.00	Average
2	* 2430.175	76.37	32.47	108.84	N/A	N/A	Average
3	2483.500	20.16	32.71	52.86	-1.14	54.00	Average
4	2483.755	20.28	32.71	52.99	-1.01	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2447MHz	Test Voltage	110V/60Hz

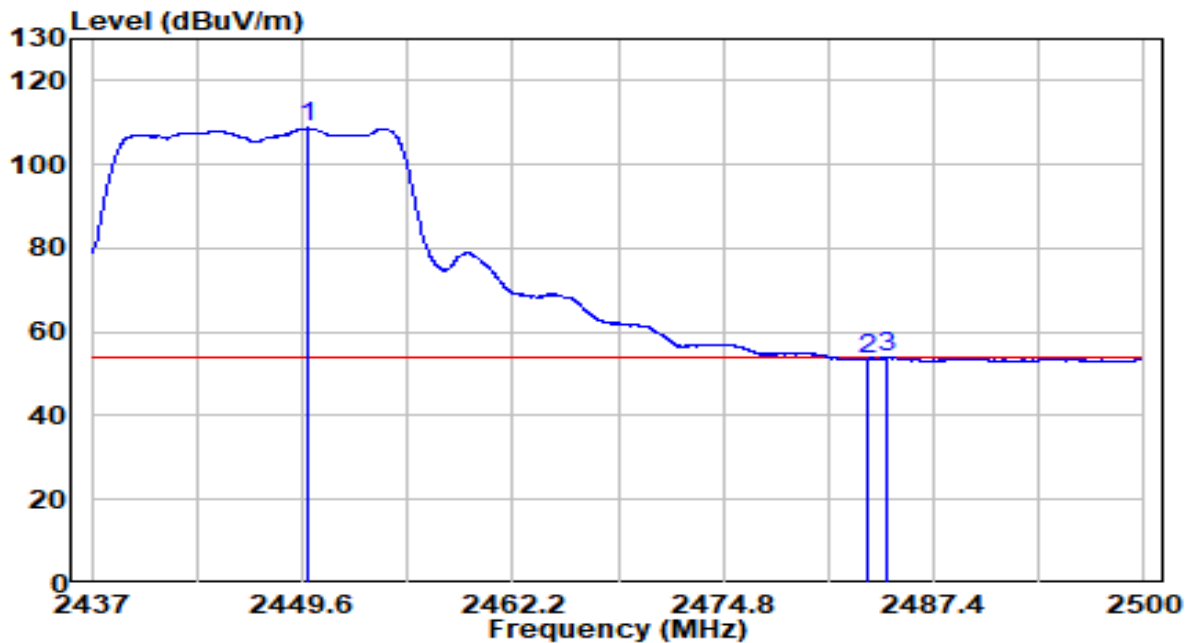


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2449.789	85.03	32.56	117.59	N/A	N/A	Peak
2		2483.500	33.44	32.71	66.14	-7.86	74.00	Peak
3		2485.258	37.19	32.72	69.90	-4.10	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2447MHz	Test Voltage	110V/60Hz

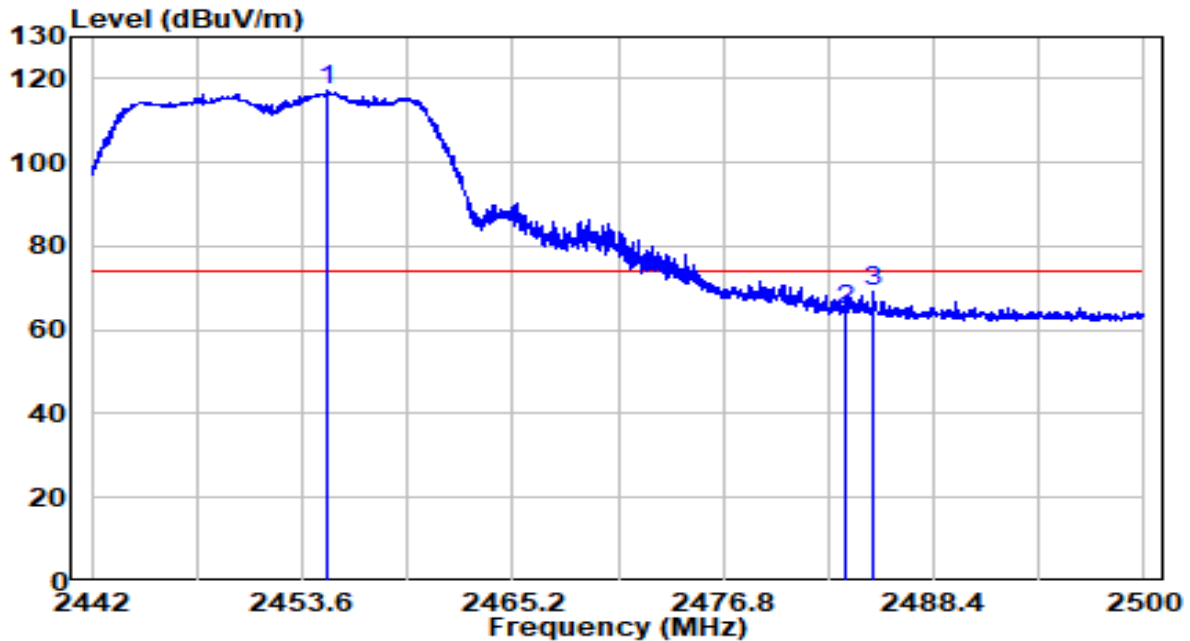


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2449.978	76.11	32.56	108.67	N/A	N/A	Average
2		2483.500	20.93	32.71	53.64	-0.36	54.00	Average
3	*	2484.659	21.22	32.71	53.93	-0.07	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2452MHz	Test Voltage	110V/60Hz

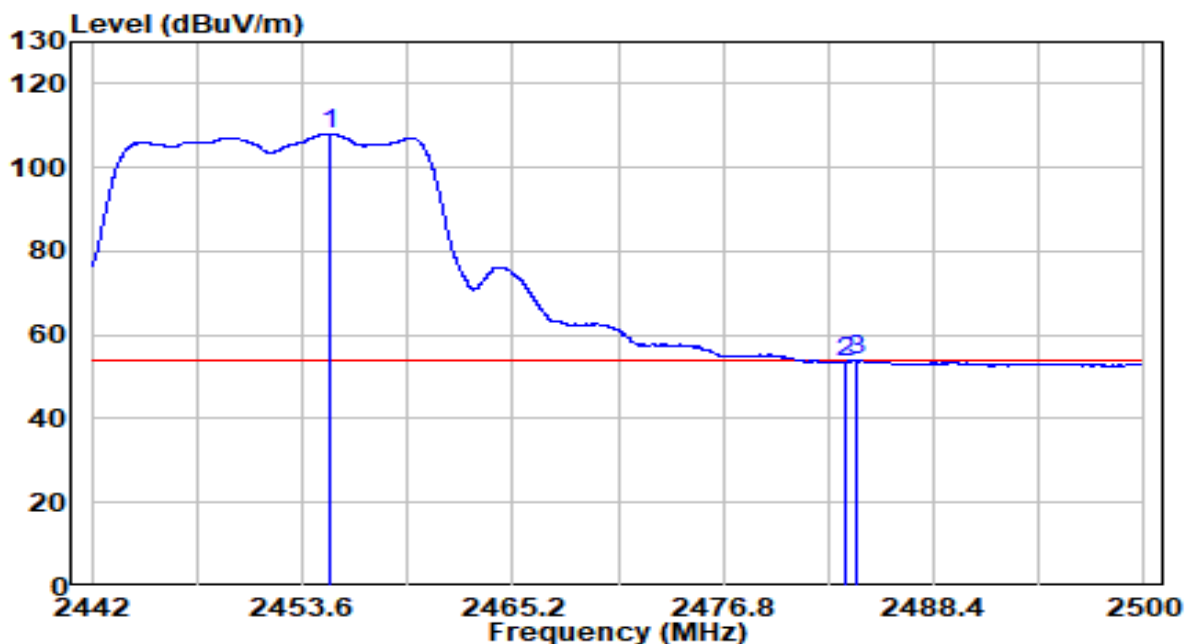


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2454.905	84.62	32.58	117.21	N/A	N/A	Peak
2		2483.500	31.85	32.71	64.56	-9.44	74.00	Peak
3		2485.123	36.55	32.71	69.27	-4.73	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2452MHz	Test Voltage	110V/60Hz

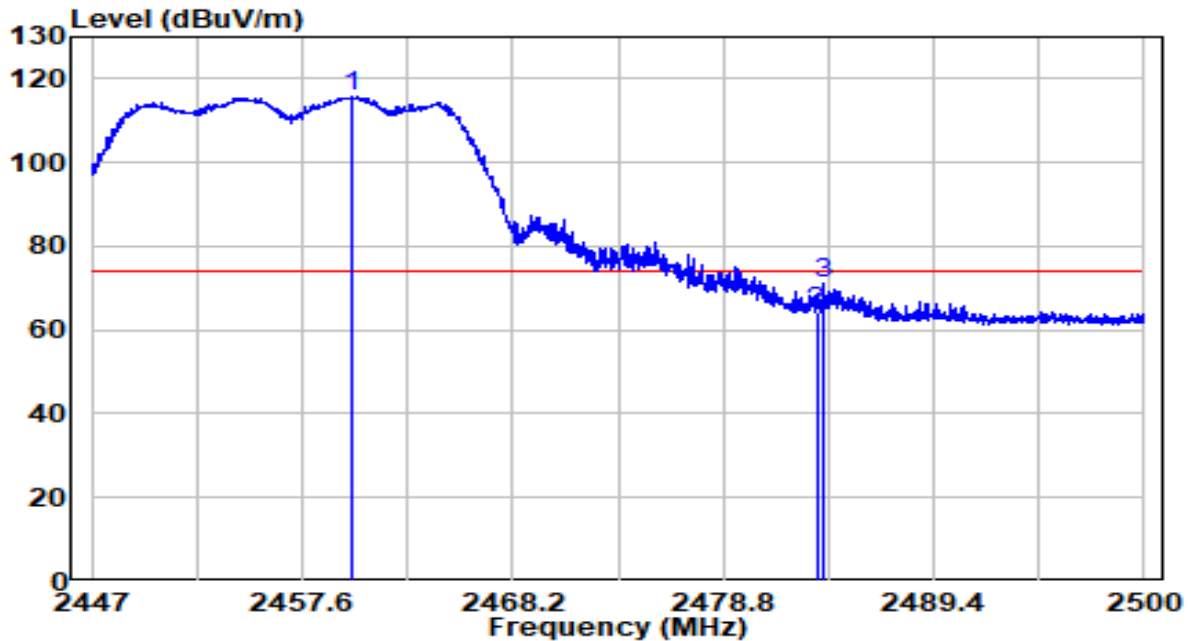


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.108	75.54	32.58	108.12	N/A	N/A	Average
2		2483.500	20.85	32.71	53.56	-0.44	54.00	Average
3		2484.079	21.21	32.71	53.92	-0.08	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2457MHz	Test Voltage	110V/60Hz

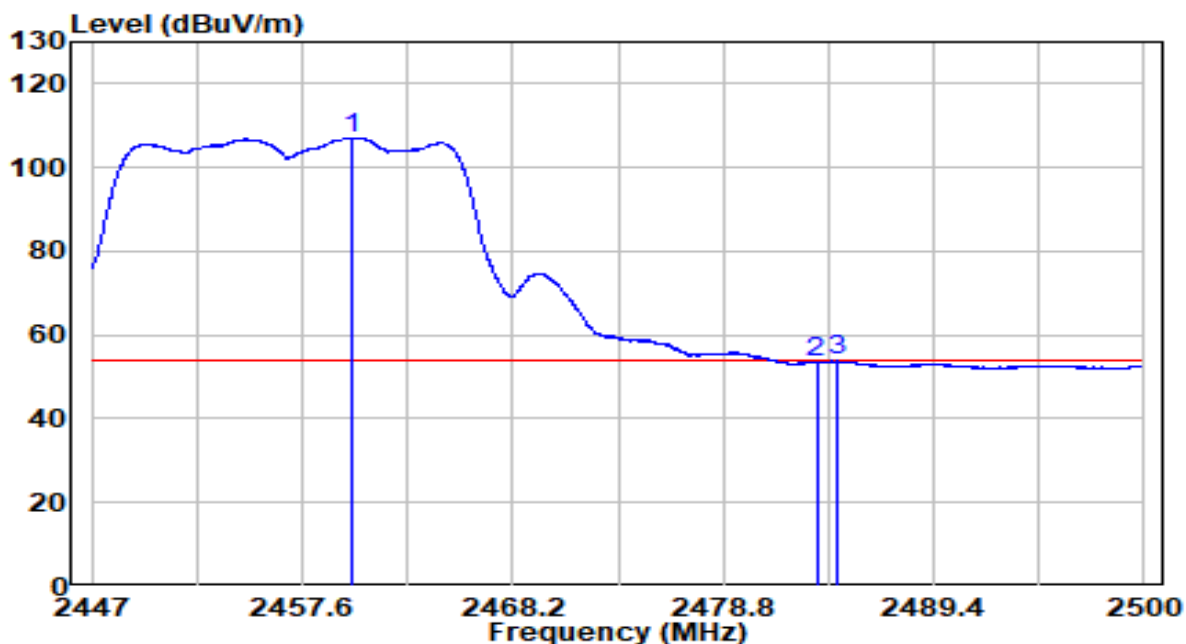


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.144	83.40	32.60	116.01	N/A	N/A	Peak
2		2483.500	31.62	32.71	64.33	-9.67	74.00	Peak
3		2483.862	38.26	32.71	70.97	-3.03	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2457MHz	Test Voltage	110V/60Hz

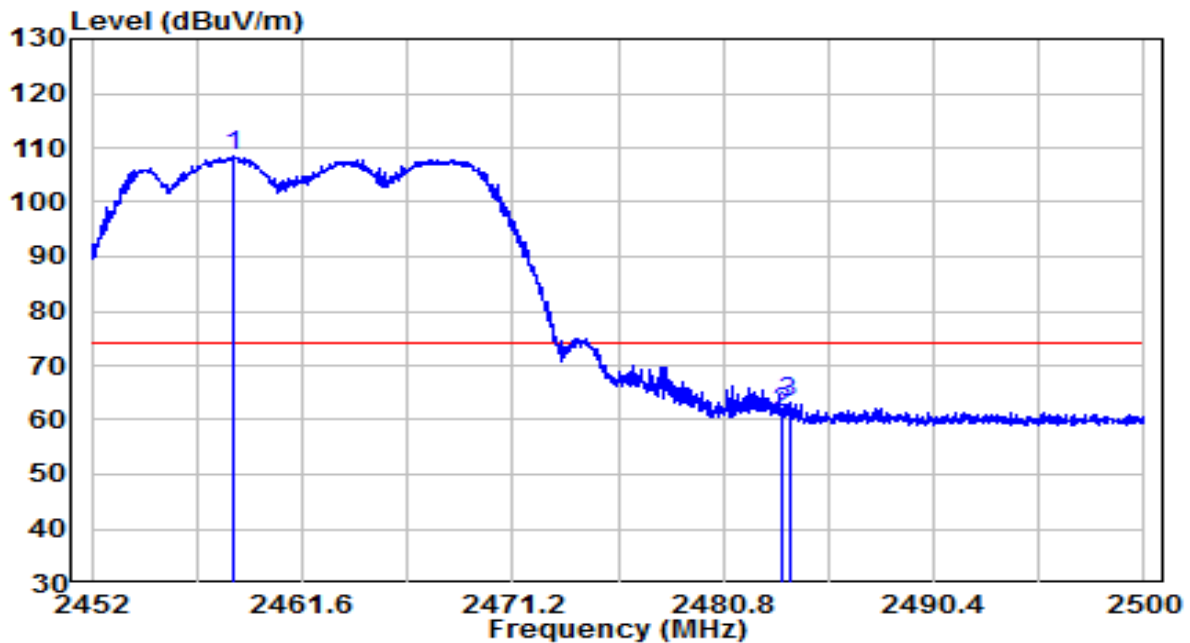


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.091	74.50	32.60	107.10	N/A	N/A	Average
2		2483.500	20.68	32.71	53.39	-0.61	54.00	Average
3	*	2484.577	21.14	32.71	53.85	-0.15	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	110V/60Hz

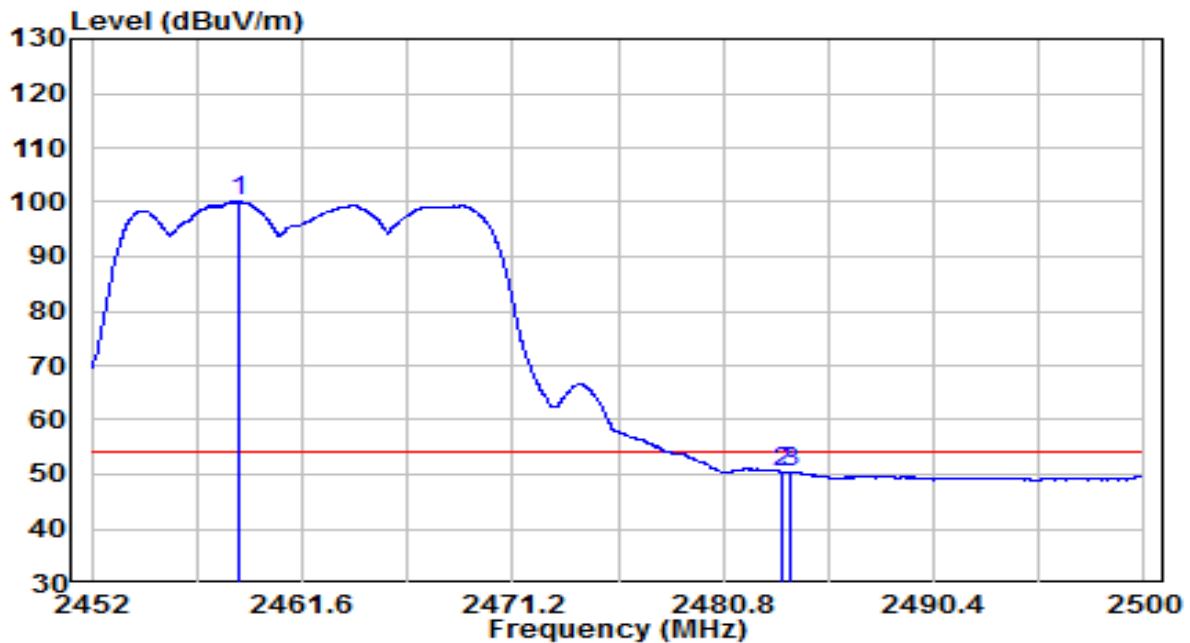


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2458.432	75.76	32.60	108.36	N/A	N/A	Peak
2		2483.500	28.56	32.71	61.26	-12.74	74.00	Peak
3		2483.800	30.40	32.71	63.11	-10.89	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	110V/60Hz

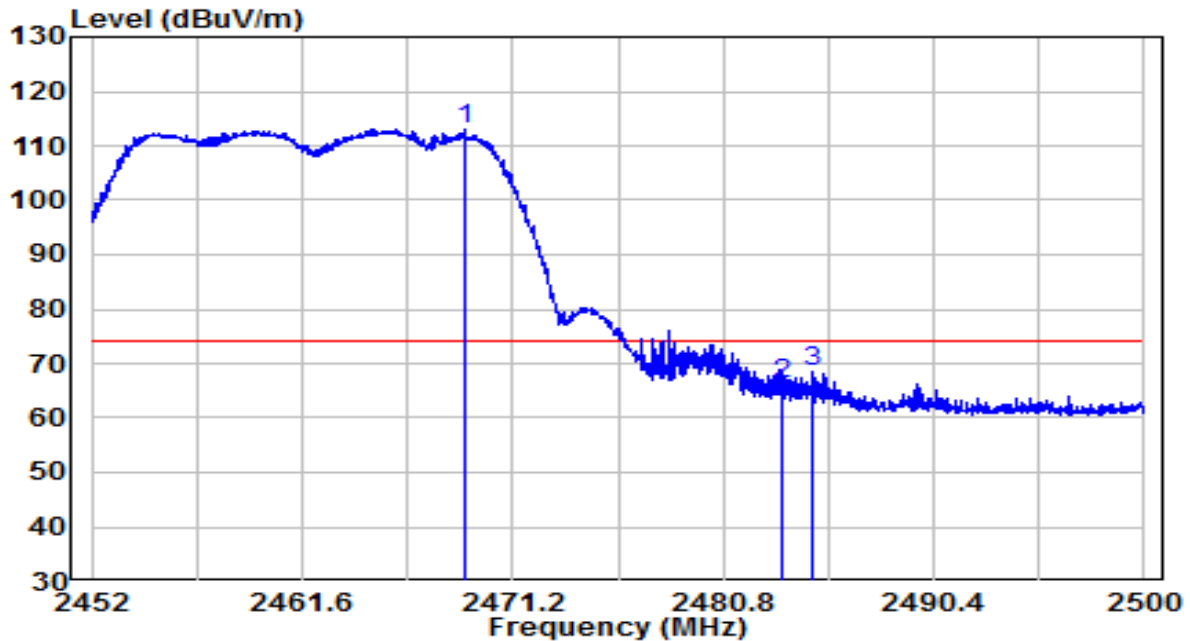


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2458.696	67.50	32.60	100.10	N/A	N/A	Peak
2		2483.500	17.81	32.71	50.51	-3.49	54.00	Peak
3		2483.824	17.83	32.71	50.54	-3.46	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	110V/60Hz

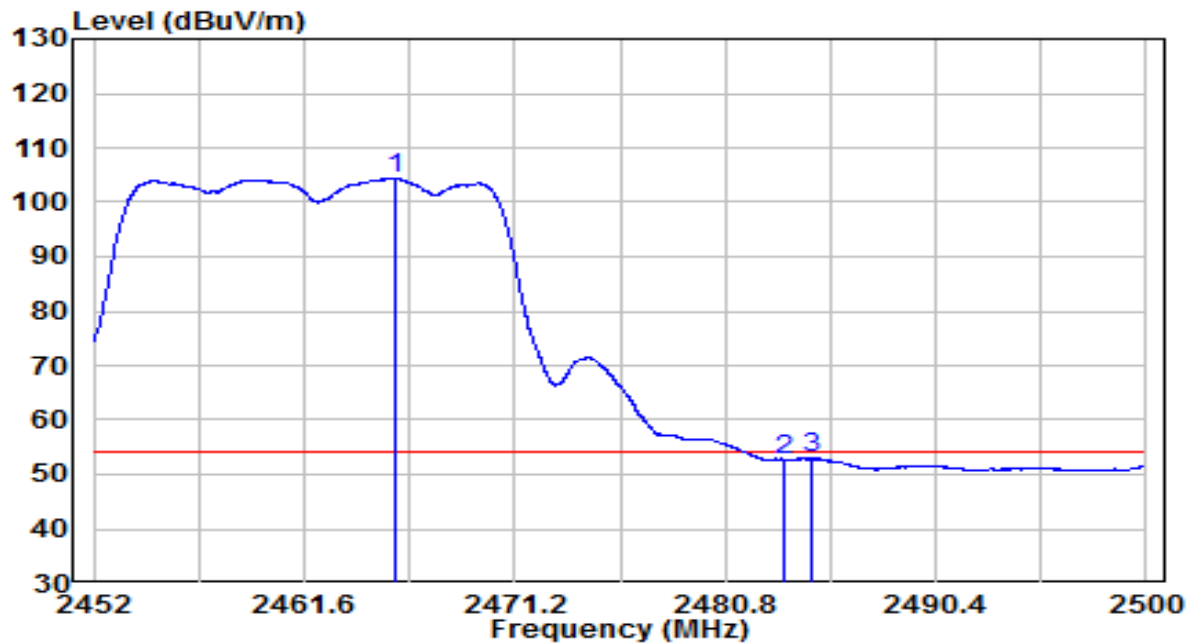


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2469.040	80.48	32.64	113.13	N/A	N/A	Peak
2		2483.500	33.67	32.71	66.38	-7.62	74.00	Peak
3		2484.880	35.74	32.71	68.45	-5.55	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11g at Channel 2462MHz	Test Voltage	110V/60Hz

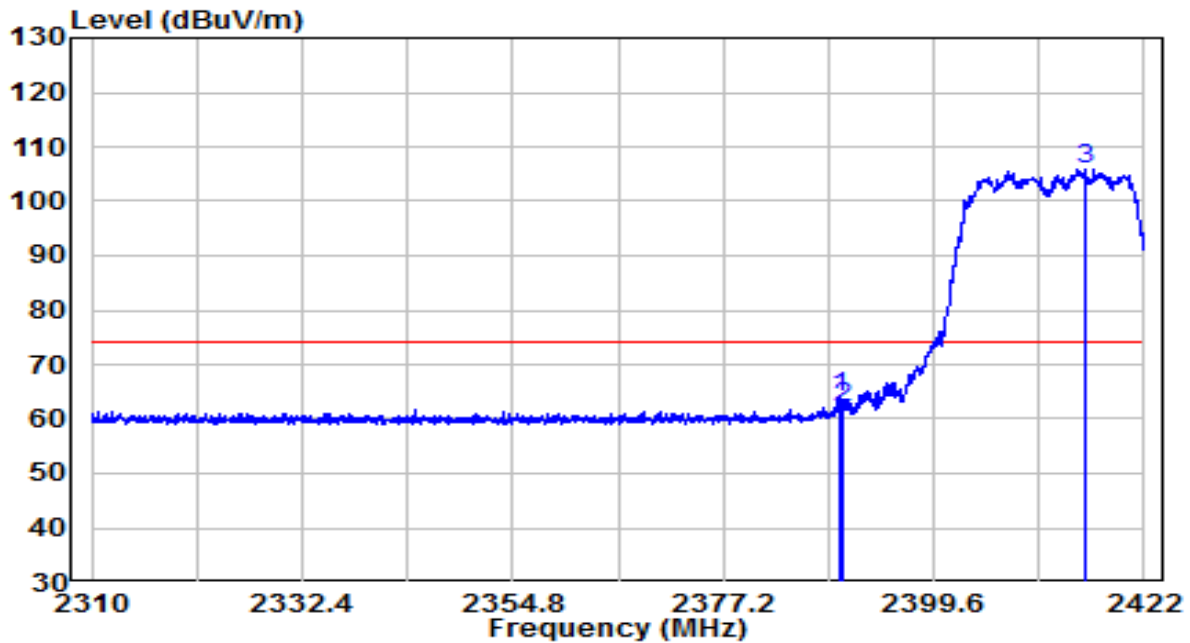


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2465.776	71.76	32.63	104.39	N/A	N/A	Peak
2		2483.500	20.04	32.71	52.75	-1.25	54.00	Peak
3		2484.760	20.37	32.71	53.09	-0.91	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	110V/60Hz

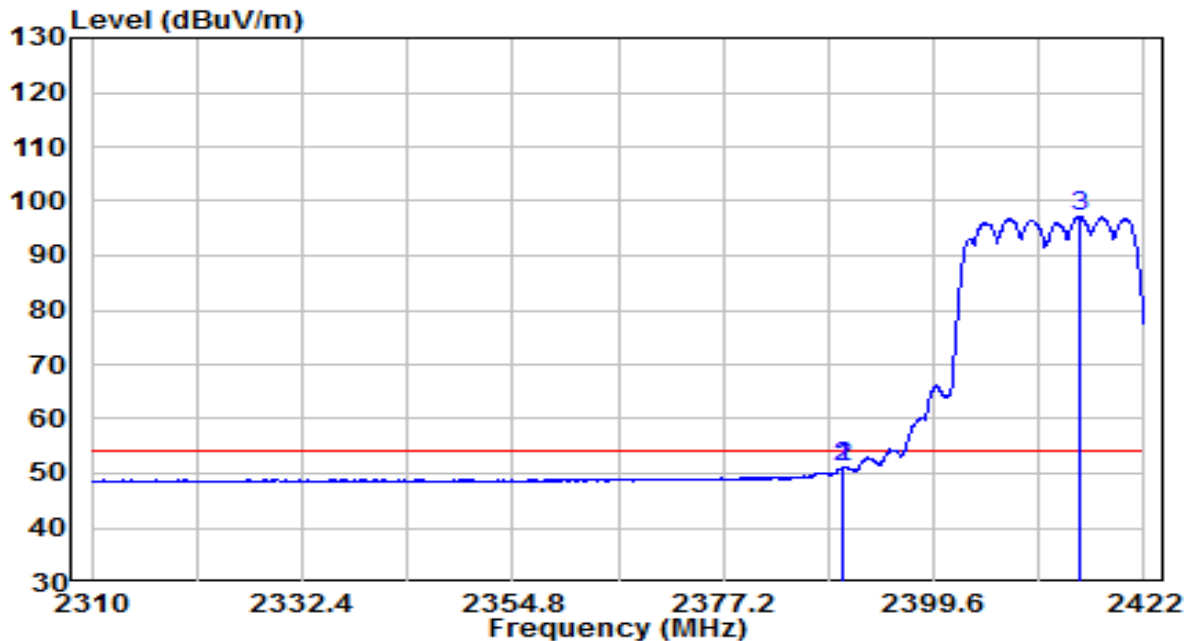


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.744	31.85	32.29	64.15	-9.85	74.00	Peak
2	2390.000	29.82	32.30	62.12	-11.88	74.00	Peak
3	* 2415.616	73.55	32.41	105.96	N/A	N/A	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	110V/60Hz

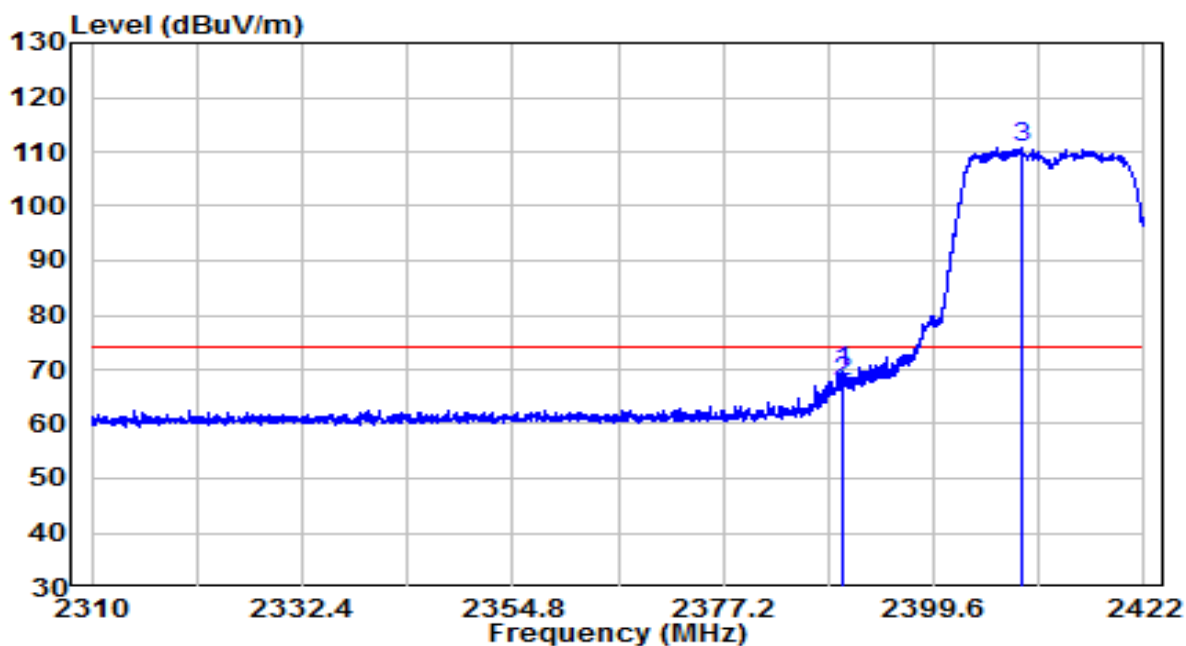


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	18.97	32.30	51.27	-2.73	54.00	Peak
2	2390.024	18.97	32.30	51.27	-2.73	54.00	Peak
3	* 2415.112	64.79	32.41	97.20	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	110V/60Hz

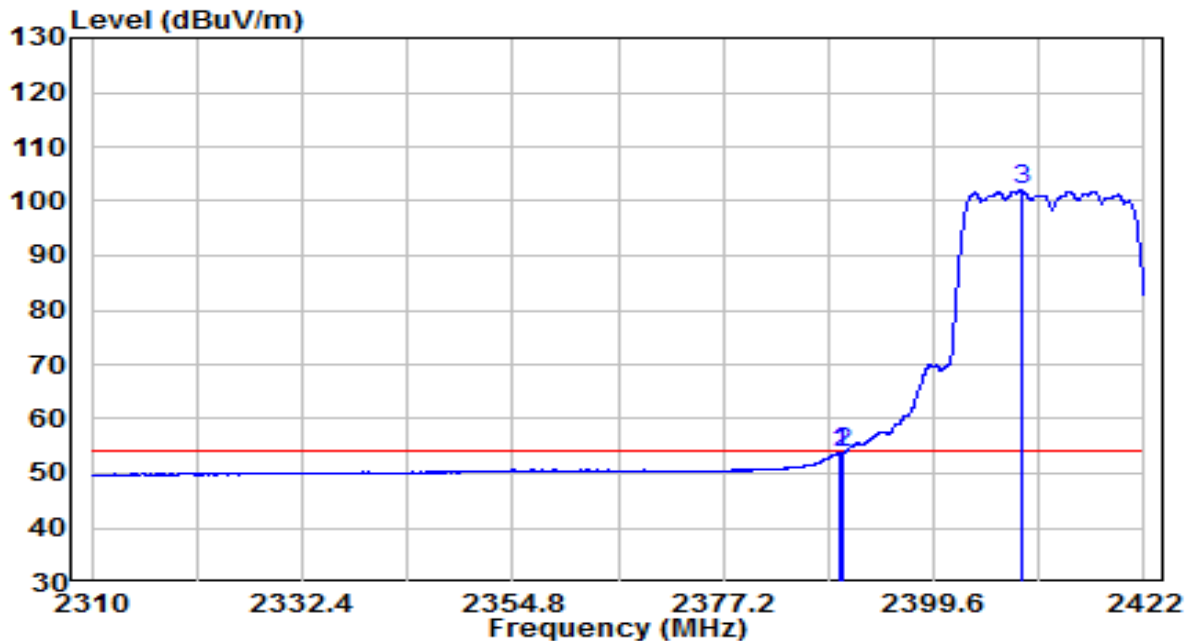


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.912	37.29	32.30	69.59	-4.41	74.00	Peak
2	2390.000	35.27	32.30	67.57	-6.43	74.00	Peak
3	* 2409.008	78.38	32.38	110.76	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2412MHz	Test Voltage	110V/60Hz

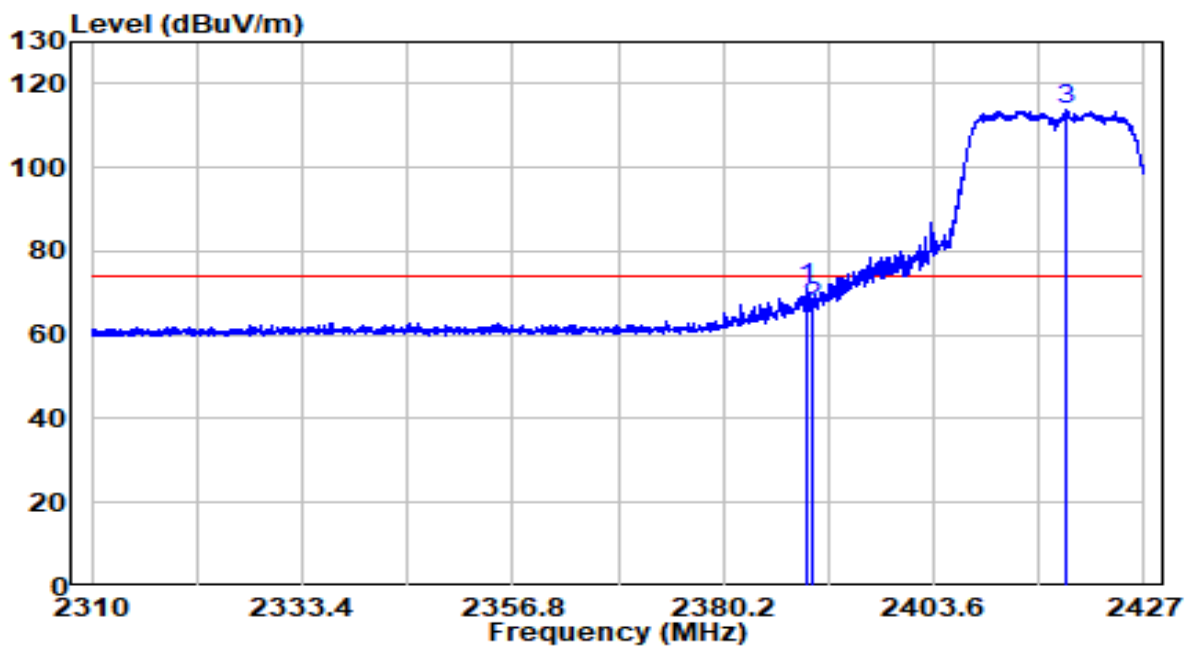


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.520	21.43	32.29	53.73	-0.27	54.00	Peak
2	2390.000	21.38	32.30	53.68	-0.32	54.00	Peak
3	* 2408.896	69.72	32.38	102.10	N/A	N/A	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2417MHz	Test Voltage	110V/60Hz

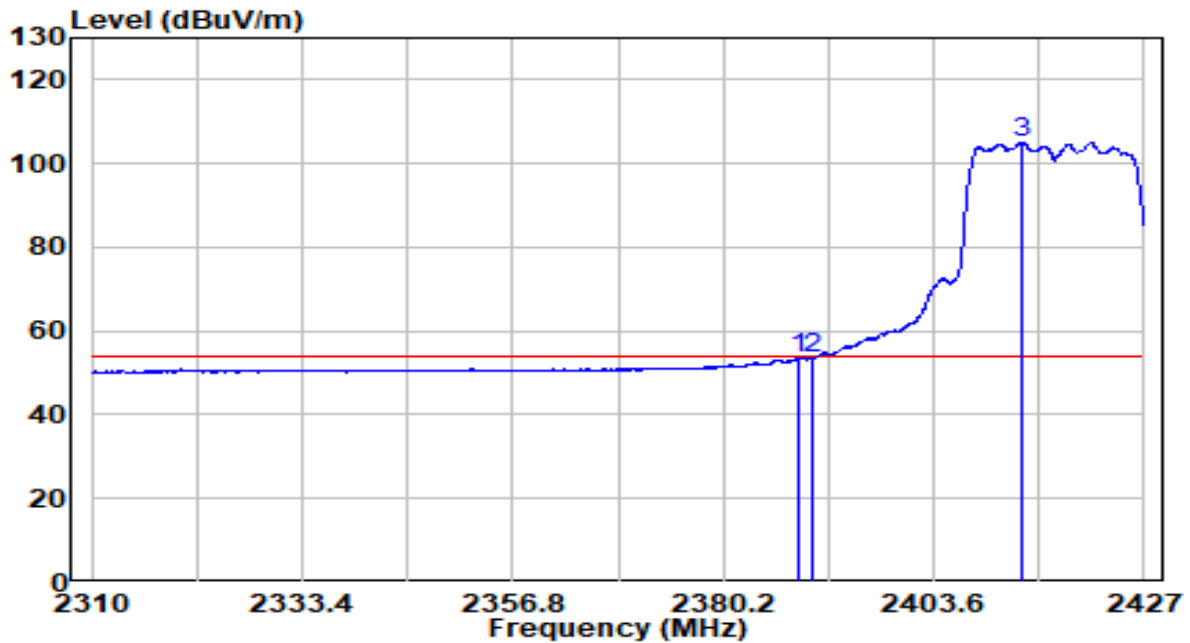


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.385	38.98	32.29	71.27	-2.73	74.00	Peak
2	2390.000	34.25	32.30	66.55	-7.45	74.00	Peak
3	* 2418.167	81.23	32.42	113.65	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2417MHz	Test Voltage	110V/60Hz

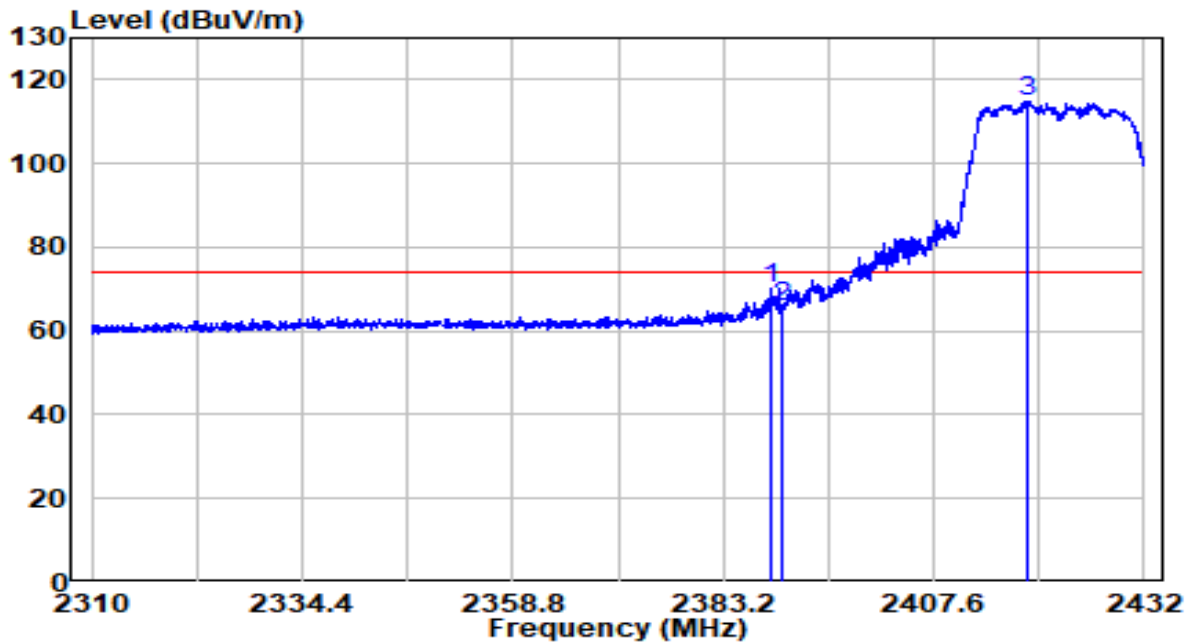


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.683	21.41	32.29	53.70	-0.30	54.00	Average
2	2390.000	21.25	32.30	53.55	-0.45	54.00	Average
3	* 2413.487	72.70	32.40	105.10	N/A	N/A	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2422MHz	Test Voltage	110V/60Hz

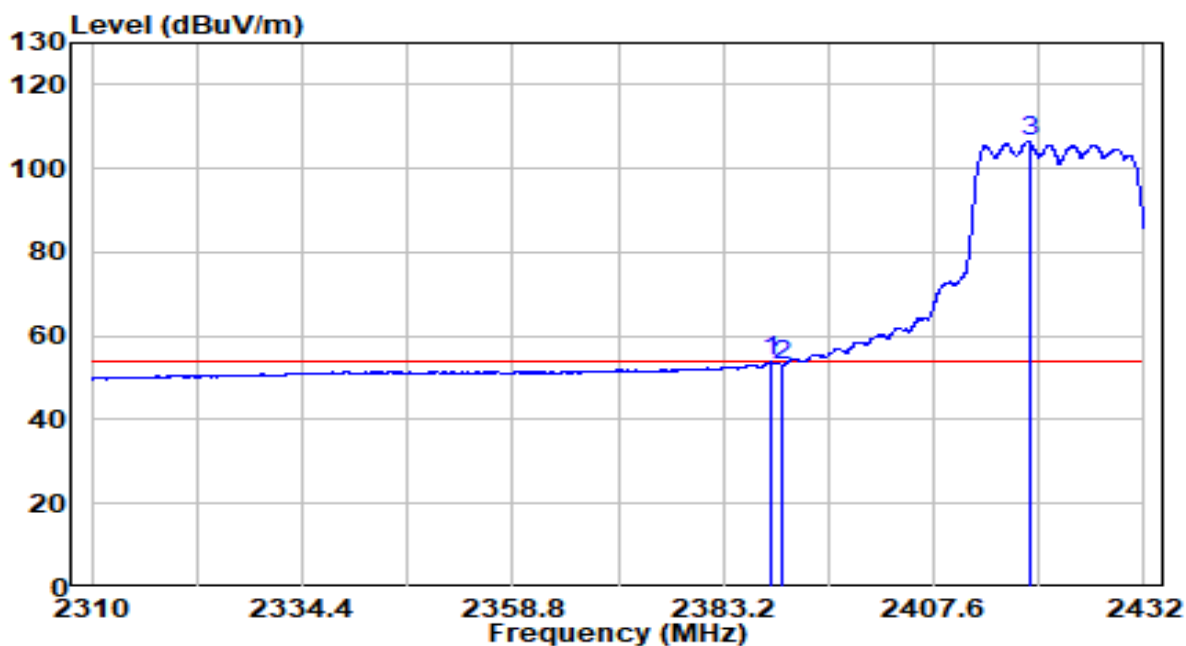


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.629	37.86	32.29	70.15	-3.85	74.00	Peak
2	2390.000	33.53	32.30	65.83	-8.17	74.00	Peak
3	* 2418.336	82.52	32.42	114.94	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2422MHz	Test Voltage	110V/60Hz

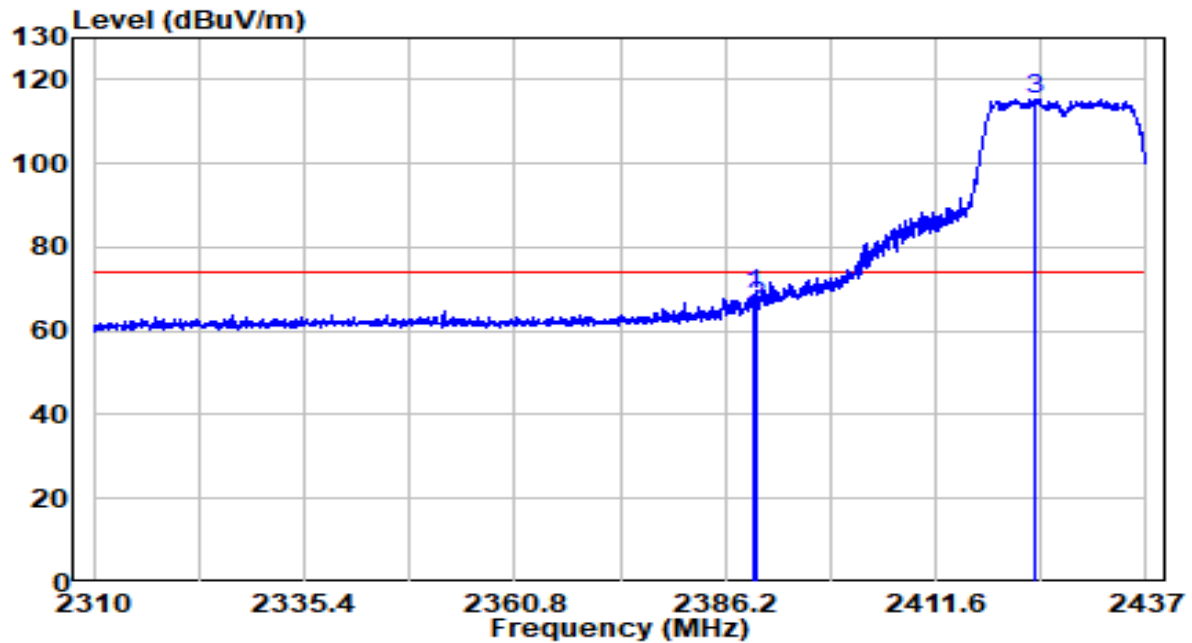


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.873	21.47	32.29	53.76	-0.24	54.00	Average
2	2390.000	20.87	32.30	53.16	-0.84	54.00	Average
3	* 2418.641	73.86	32.42	106.28	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2427MHz	Test Voltage	110V/60Hz

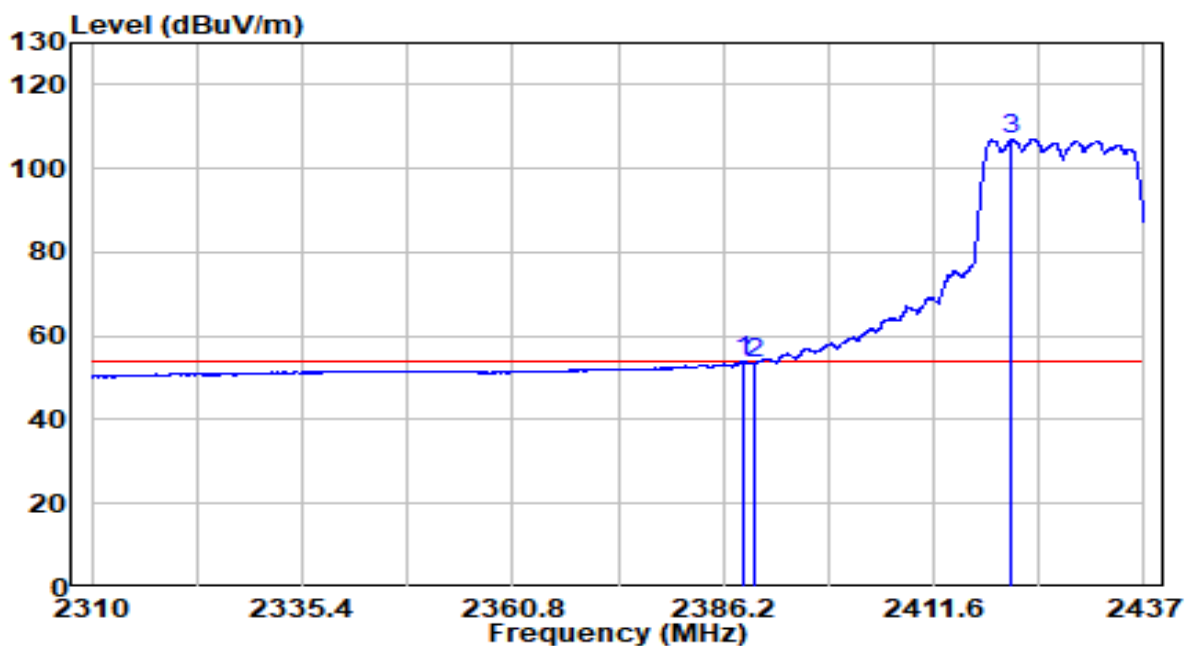


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.756	36.24	32.29	68.53	-5.47	74.00	Peak
2	2390.000	33.45	32.30	65.75	-8.25	74.00	Peak
3	* 2423.475	83.02	32.44	115.46	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2427MHz	Test Voltage	110V/60Hz

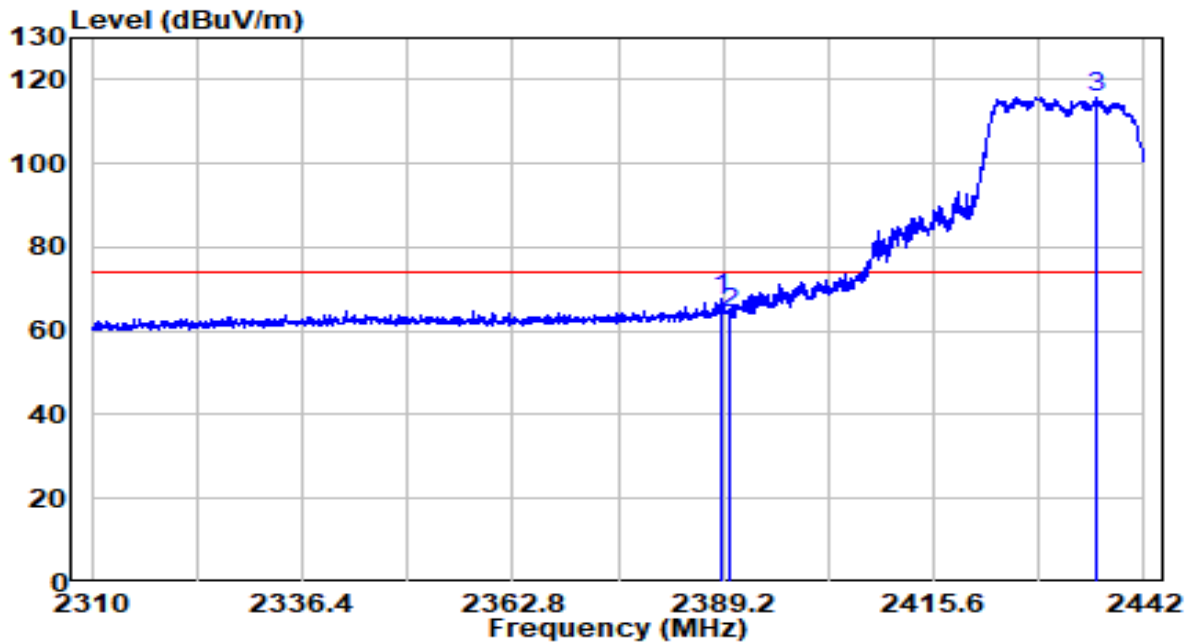


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2388.740	21.57	32.29	53.86	-0.14	54.00	Average
2		2390.000	20.99	32.30	53.29	-0.71	54.00	Average
3	*	2420.935	74.53	32.43	106.97	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2432MHz	Test Voltage	110V/60Hz

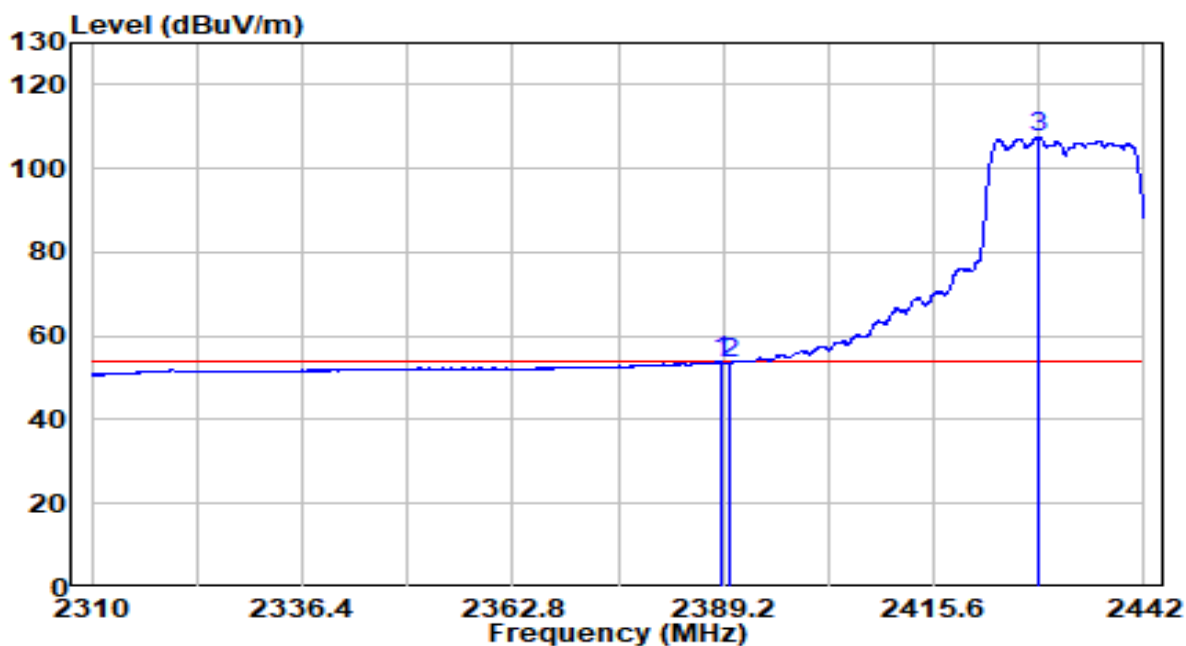


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.870	35.19	32.29	67.48	-6.52	74.00	Peak
2	2390.000	32.07	32.30	64.37	-9.63	74.00	Peak
3	* 2435.862	83.49	32.50	115.99	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2432MHz	Test Voltage	110V/60Hz

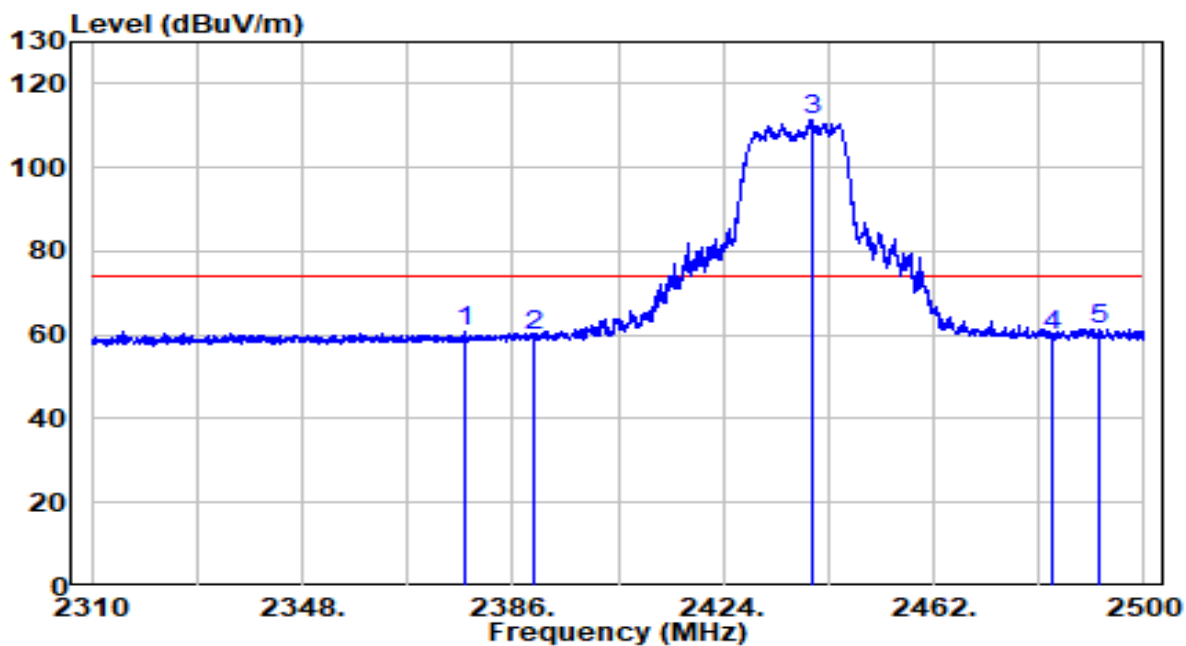


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.068	21.59	32.29	53.88	-0.12	54.00	Average
2	2390.000	21.27	32.30	53.57	-0.43	54.00	Average
3	* 2428.734	75.04	32.47	107.51	N/A	N/A	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

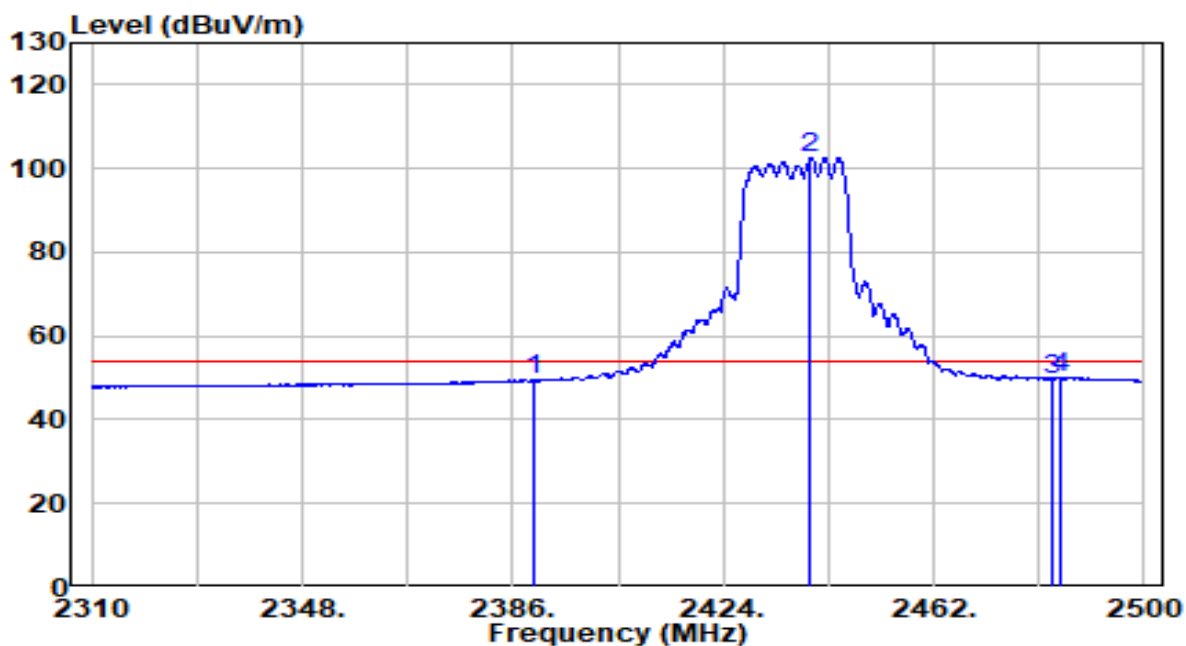


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2377.545	28.77	32.24	61.01	-12.99	74.00	Peak
2	2390.000	27.76	32.30	60.06	-13.94	74.00	Peak
3	* 2439.865	78.99	32.52	111.51	N/A	N/A	Peak
4	2483.500	27.29	32.71	60.00	-14.00	74.00	Peak
5	2491.925	28.78	32.74	61.52	-12.48	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

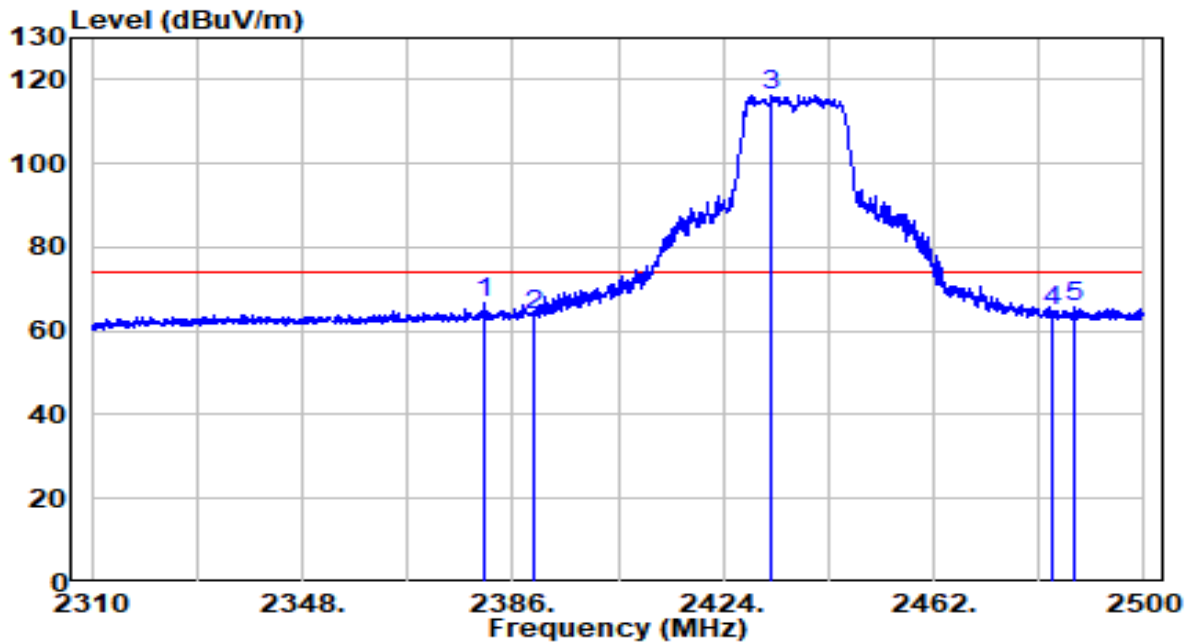


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2390.000	17.21	32.30	49.51	-4.49	54.00	Average
2	* 2439.770	70.07	32.51	102.59	N/A	N/A	Average
3	2483.500	17.04	32.71	49.75	-4.25	54.00	Average
4	2484.800	17.26	32.71	49.97	-4.03	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

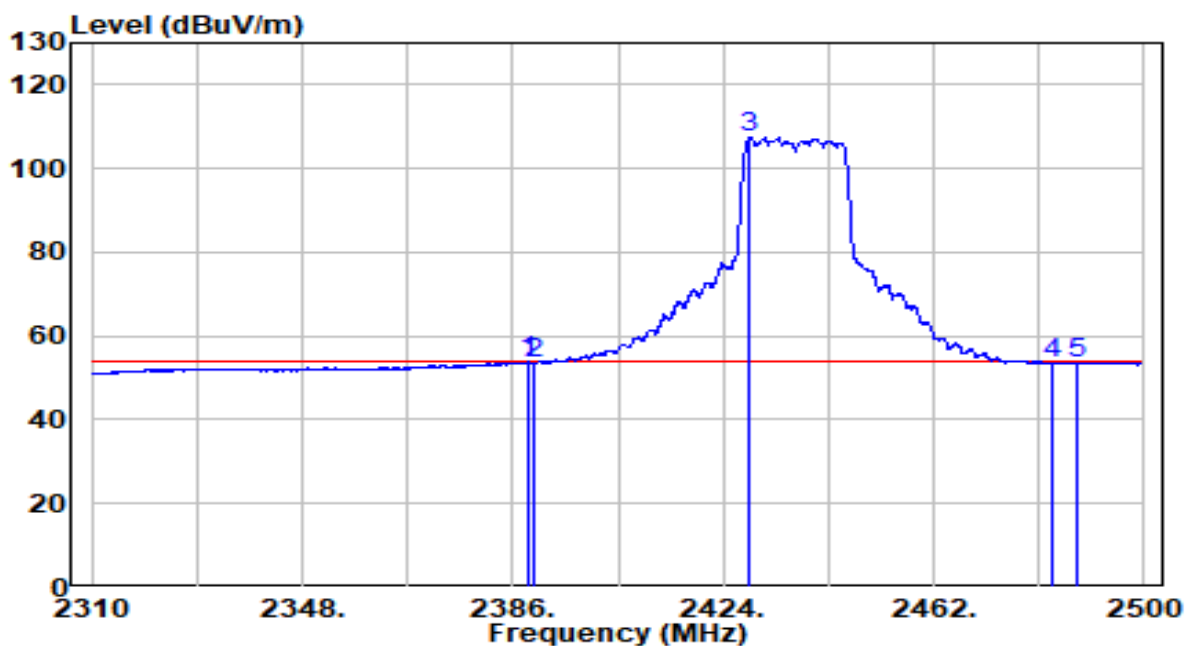


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2381.060	34.62	32.26	66.87	-7.13	74.00	Peak
2	2390.000	31.62	32.30	63.92	-10.08	74.00	Peak
3	* 2432.550	83.86	32.48	116.34	N/A	N/A	Peak
4	2483.500	31.81	32.71	64.52	-9.48	74.00	Peak
5	2487.555	32.85	32.73	65.58	-8.42	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2437MHz	Test Voltage	110V/60Hz

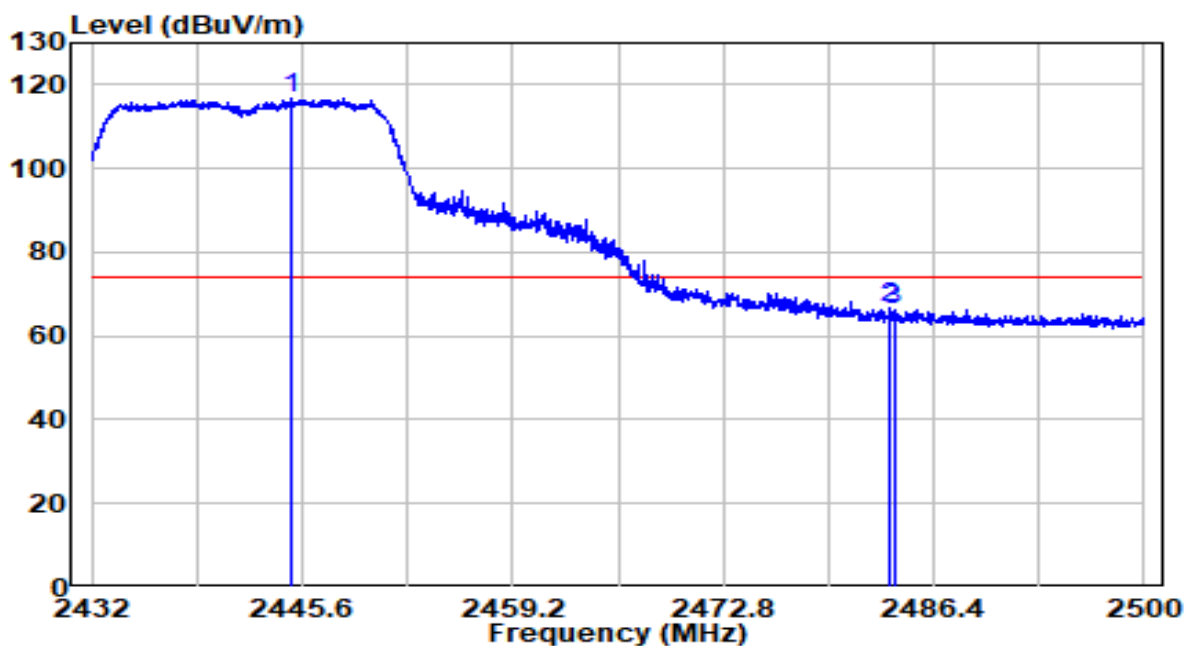


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.660	21.44	32.29	53.73	-0.27	54.00	Average
2	2390.000	21.14	32.30	53.43	-0.57	54.00	Average
3	* 2428.845	74.95	32.47	107.42	N/A	N/A	Average
4	2483.500	20.92	32.71	53.63	-0.37	54.00	Average
5	2487.840	20.94	32.73	53.67	-0.33	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2442MHz	Test Voltage	110V/60Hz

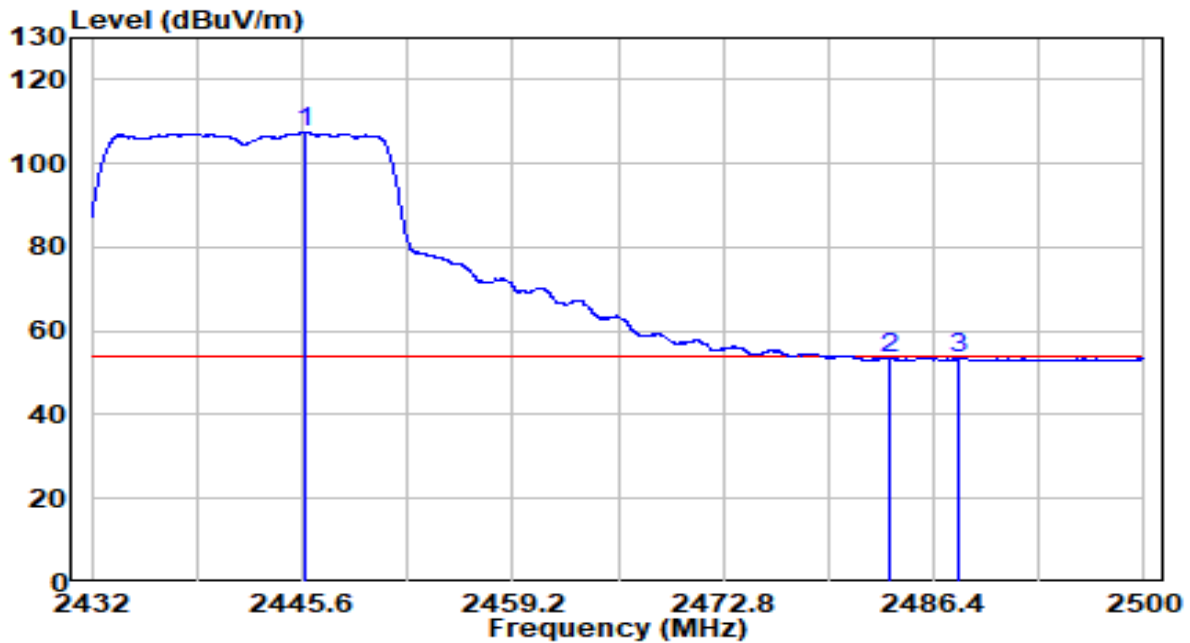


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2444.818	84.05	32.54	116.58	N/A	N/A	Peak
2		2483.500	33.84	32.71	66.55	-7.45	74.00	Peak
3		2483.816	33.52	32.71	66.23	-7.77	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2442MHz	Test Voltage	110V/60Hz

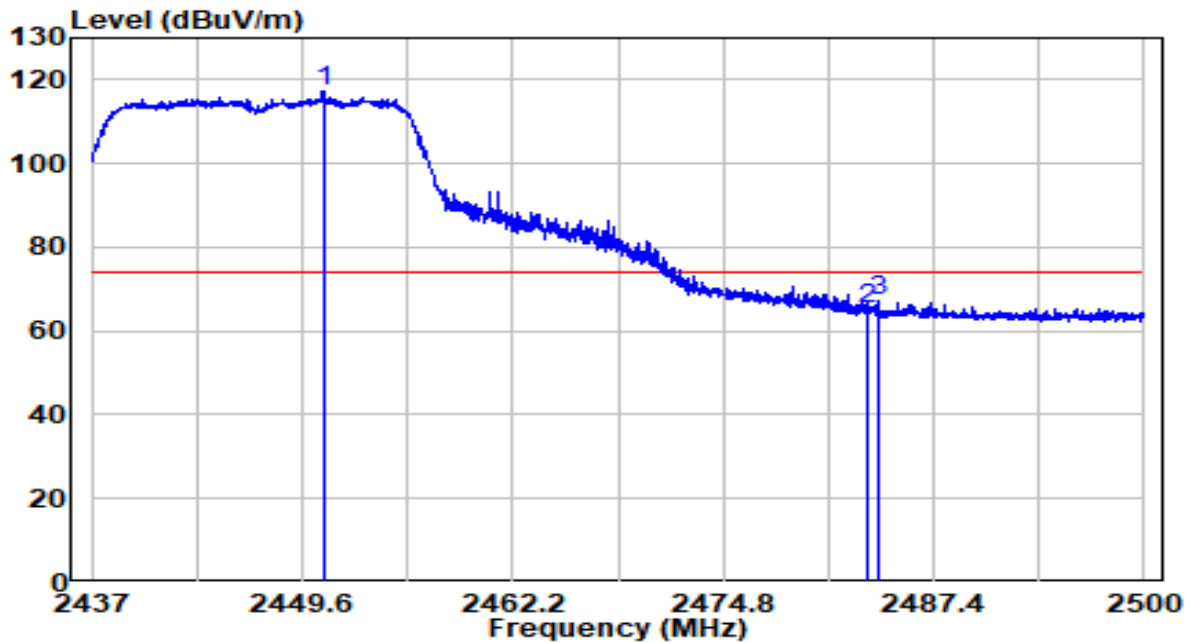


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2445.702	75.02	32.54	107.56	N/A	N/A	Average
2		2483.500	20.69	32.71	53.40	-0.60	54.00	Average
3		2487.998	20.79	32.73	53.52	-0.48	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2447MHz	Test Voltage	110V/60Hz

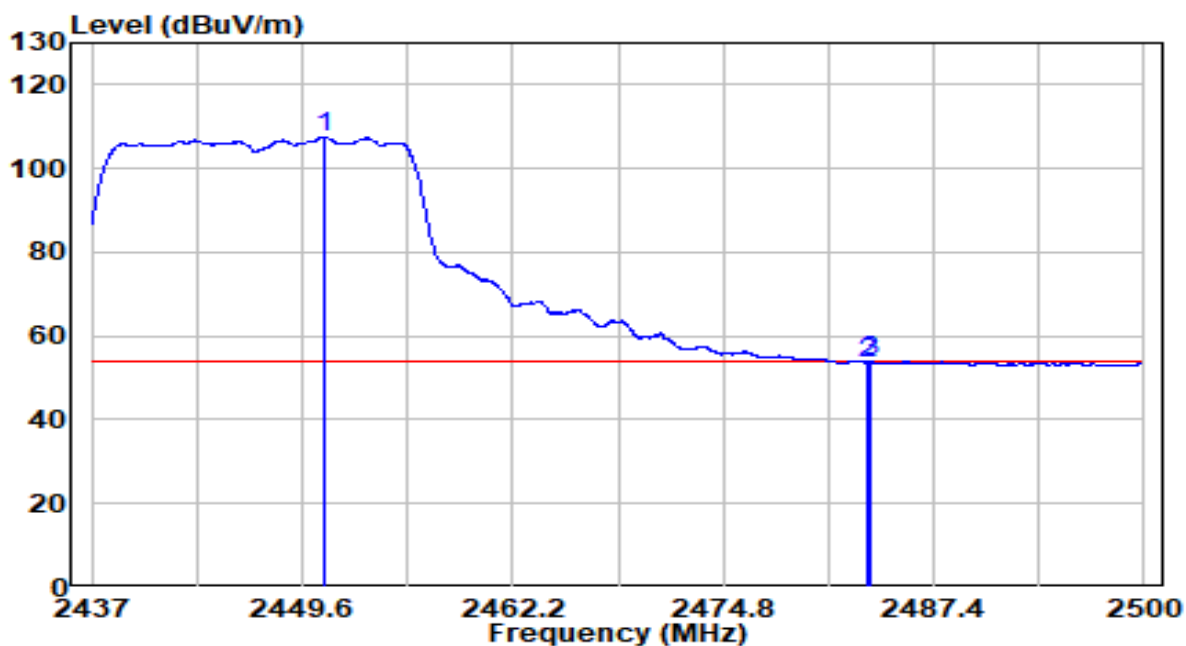


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2450.923	84.47	32.56	117.03	N/A	N/A	Peak
2		2483.500	32.57	32.71	65.27	-8.73	74.00	Peak
3		2484.030	34.45	32.71	67.16	-6.84	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2447MHz	Test Voltage	110V/60Hz

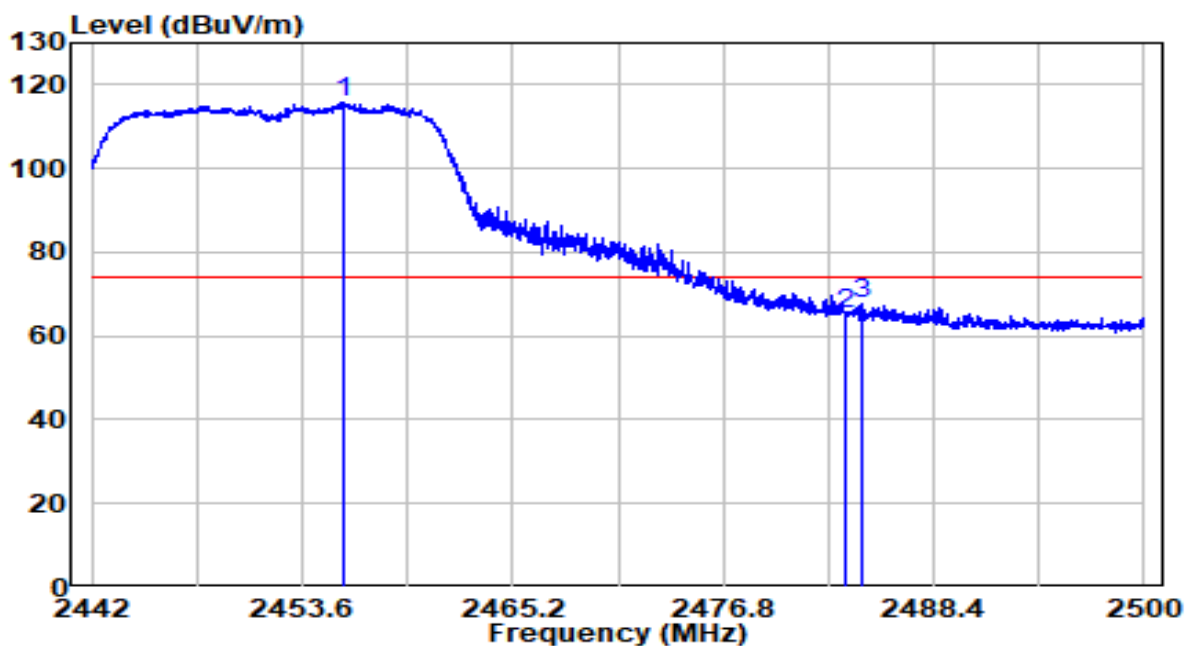


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2450.955	74.81	32.56	107.37	N/A	N/A	Average
2		2483.500	21.00	32.71	53.71	-0.29	54.00	Average
3		2483.588	21.16	32.71	53.87	-0.13	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2452MHz	Test Voltage	110V/60Hz

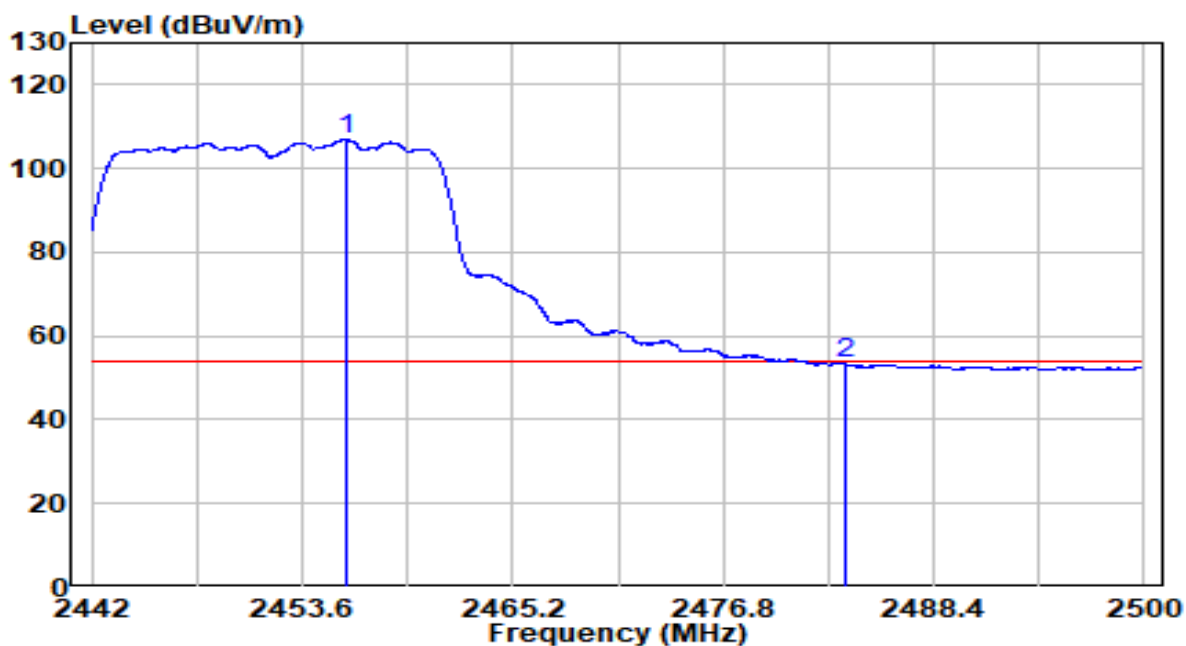


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.891	83.19	32.59	115.77	N/A	N/A	Peak
2		2483.500	32.68	32.71	65.39	-8.61	74.00	Peak
3		2484.456	35.06	32.71	67.77	-6.23	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2452MHz	Test Voltage	110V/60Hz

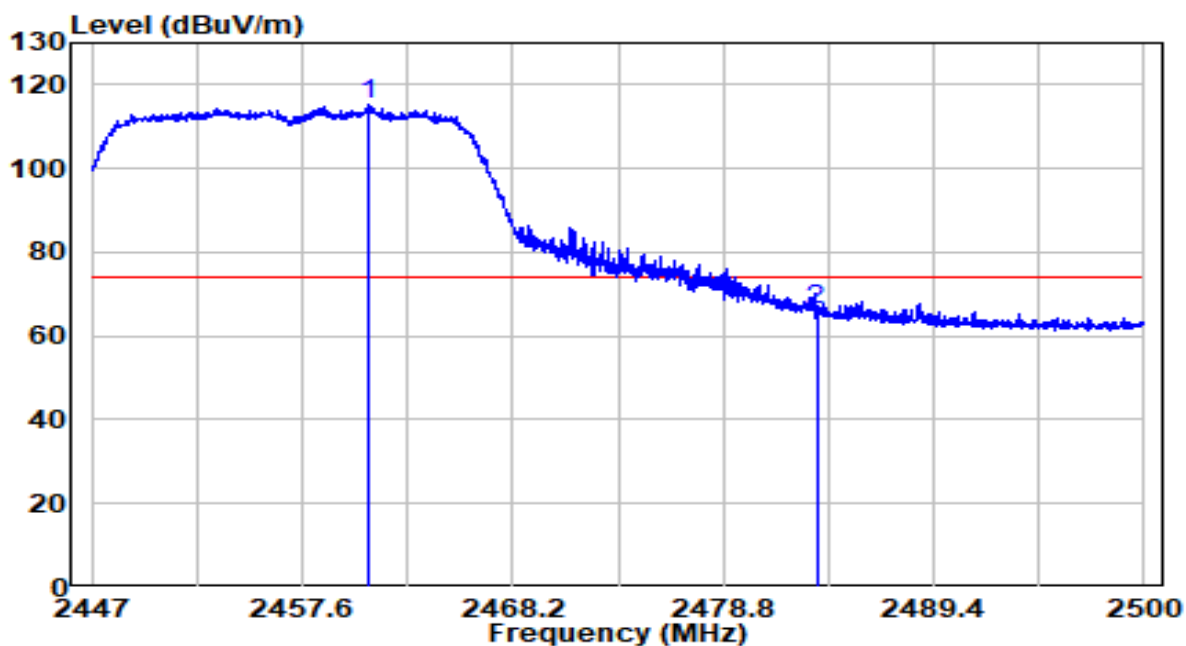


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.978	74.37	32.59	106.96	N/A	N/A	Average
2		2483.500	20.63	32.71	53.33	-0.67	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2457MH	Test Voltage	110V/60Hz

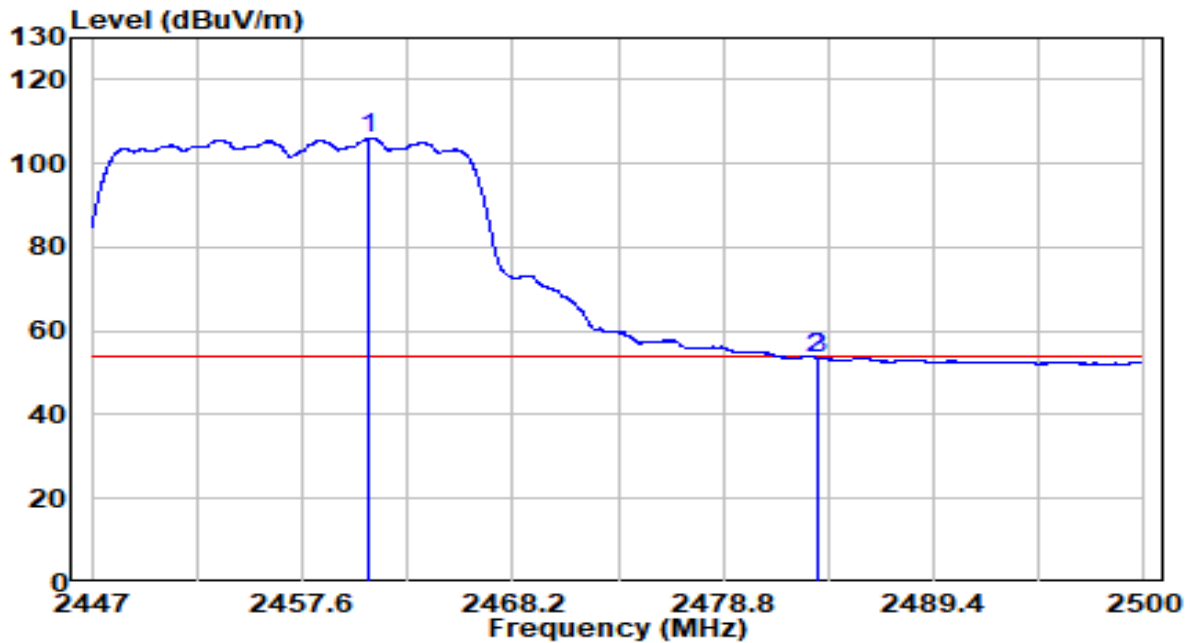


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.886	82.68	32.61	115.29	N/A	N/A	Peak
2		2483.500	33.33	32.71	66.04	-7.96	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.9°C/44.9%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2457MHz	Test Voltage	110V/60Hz

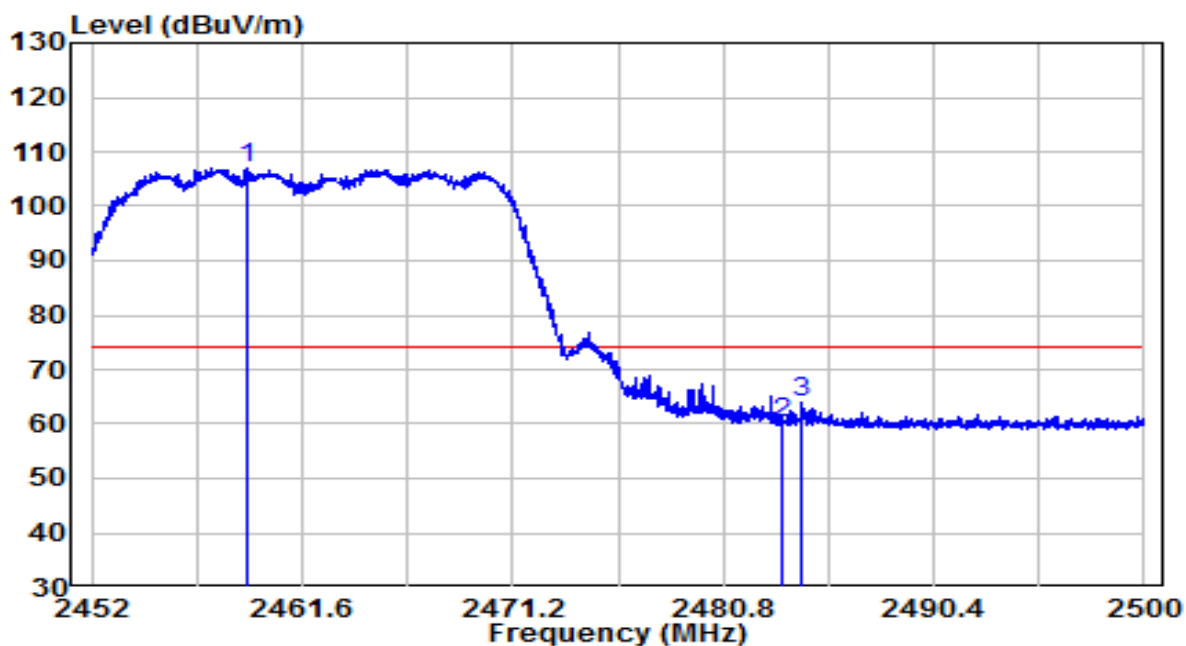


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2460.913	73.30	32.61	105.90	N/A	N/A	Average
2		2483.500	20.95	32.71	53.65	-0.35	54.00	Average
3		2483.543	20.96	32.71	53.66	-0.34	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	110V/60Hz

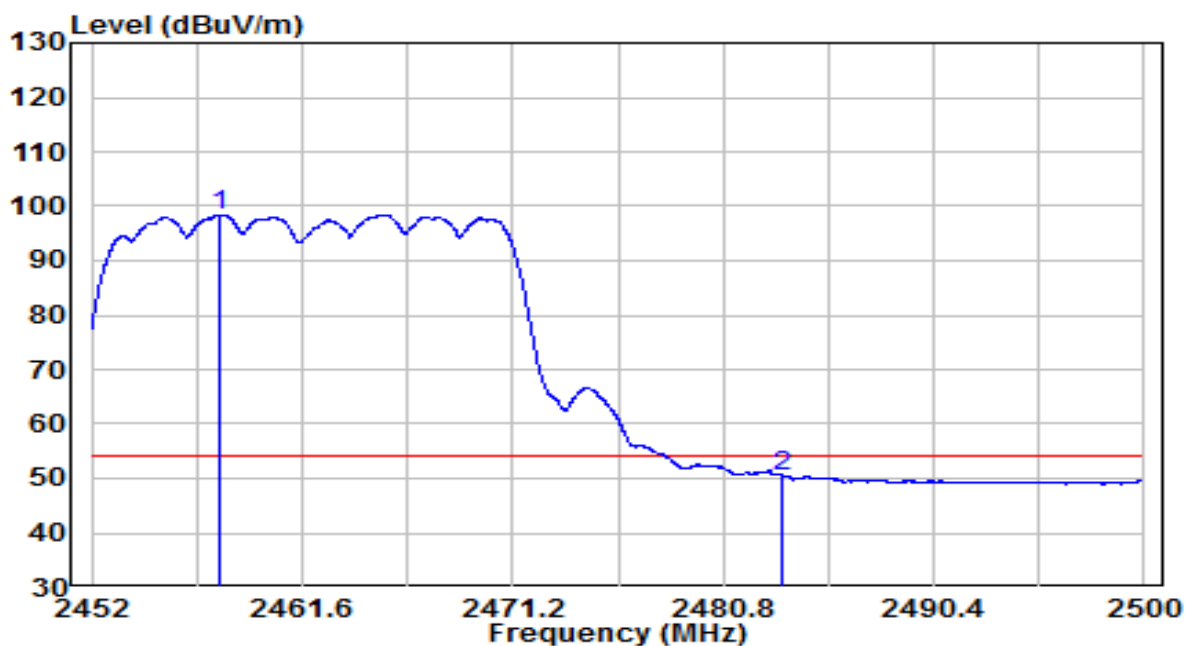


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2459.032	74.42	32.60	107.02	N/A	N/A	Peak
2		2483.500	27.61	32.71	60.32	-13.68	74.00	Peak
3		2484.352	31.17	32.71	63.88	-10.12	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	110V/60Hz

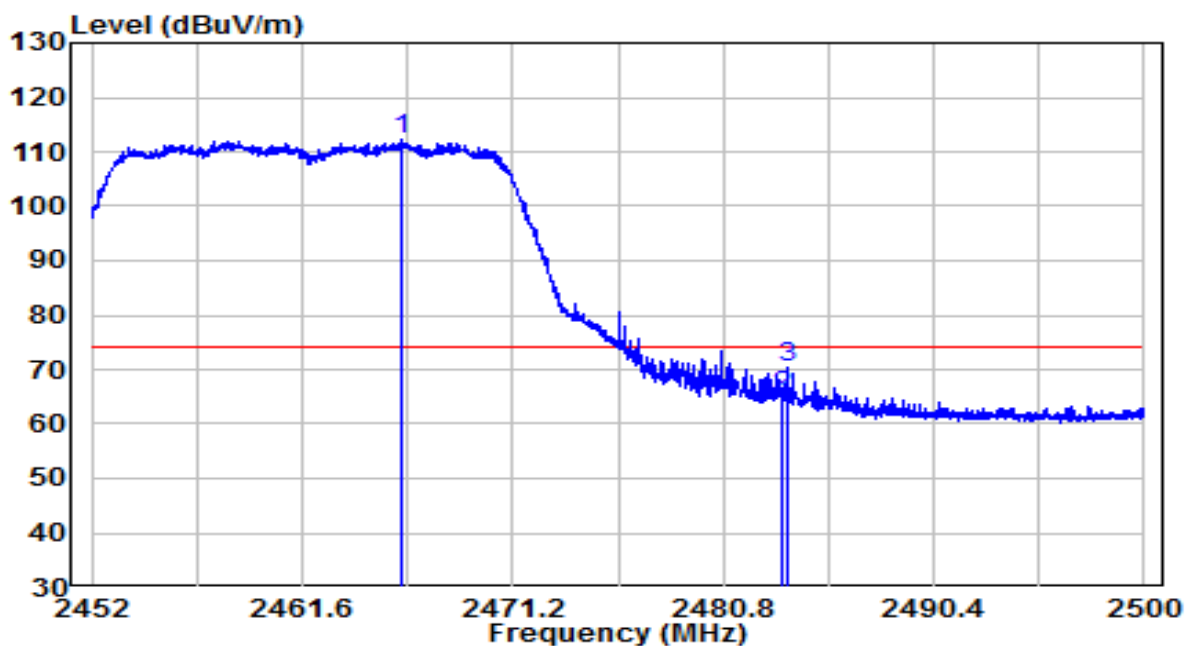


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2457.832	65.88	32.59	98.48	N/A	N/A	Average
2		2483.500	17.79	32.71	50.49	-3.51	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	110V/60Hz

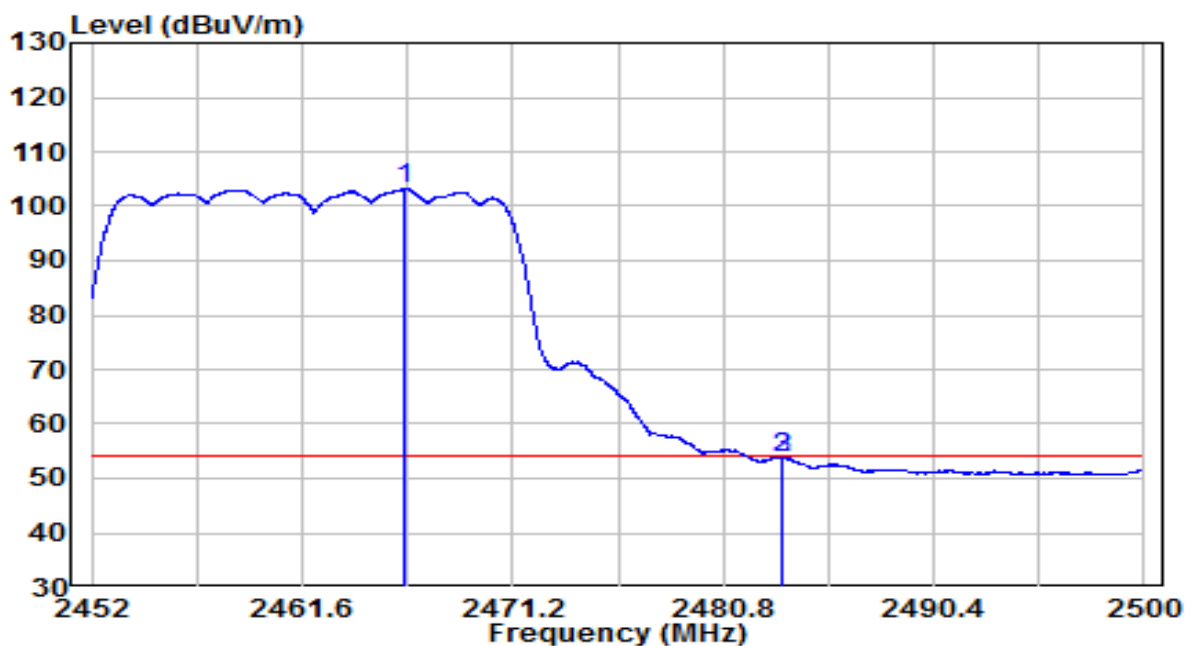


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2466.136	79.58	32.63	112.22	N/A	N/A	Peak
2		2483.500	32.38	32.71	65.09	-8.91	74.00	Peak
3		2483.728	37.82	32.71	70.53	-3.47	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT20 at Channel 2462MHz	Test Voltage	110V/60Hz

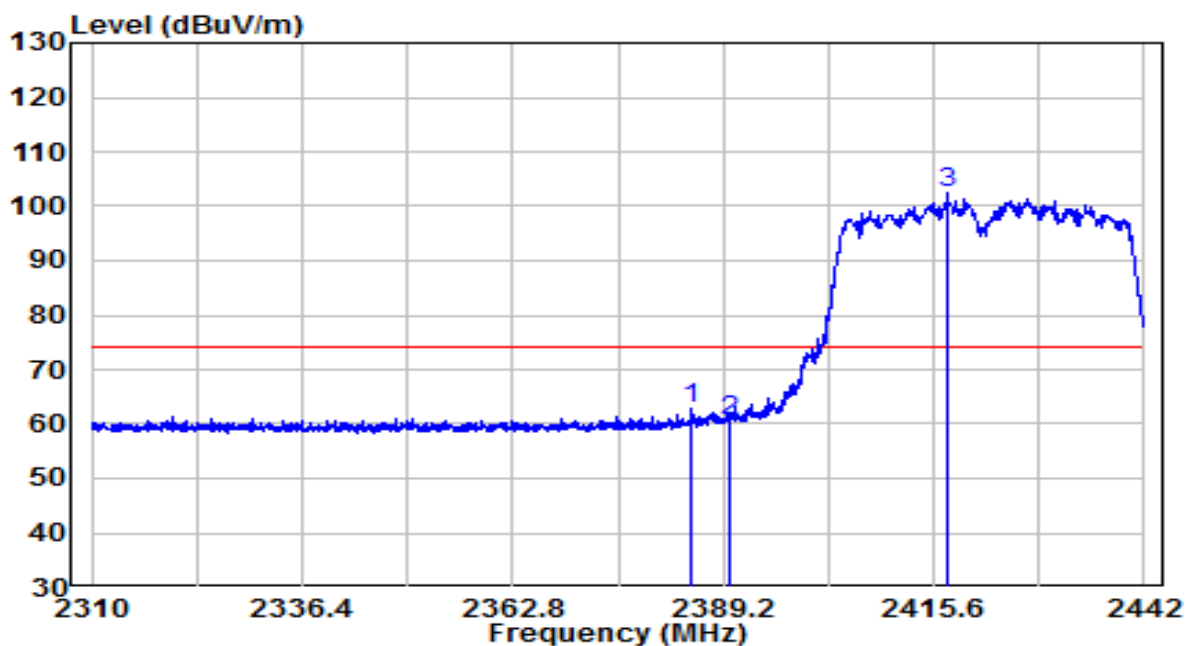


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2466.304	70.51	32.63	103.15	N/A	N/A	Average
2		2483.500	21.05	32.71	53.75	-0.25	54.00	Average
3		2483.512	21.12	32.71	53.82	-0.18	54.00	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	110V/60Hz

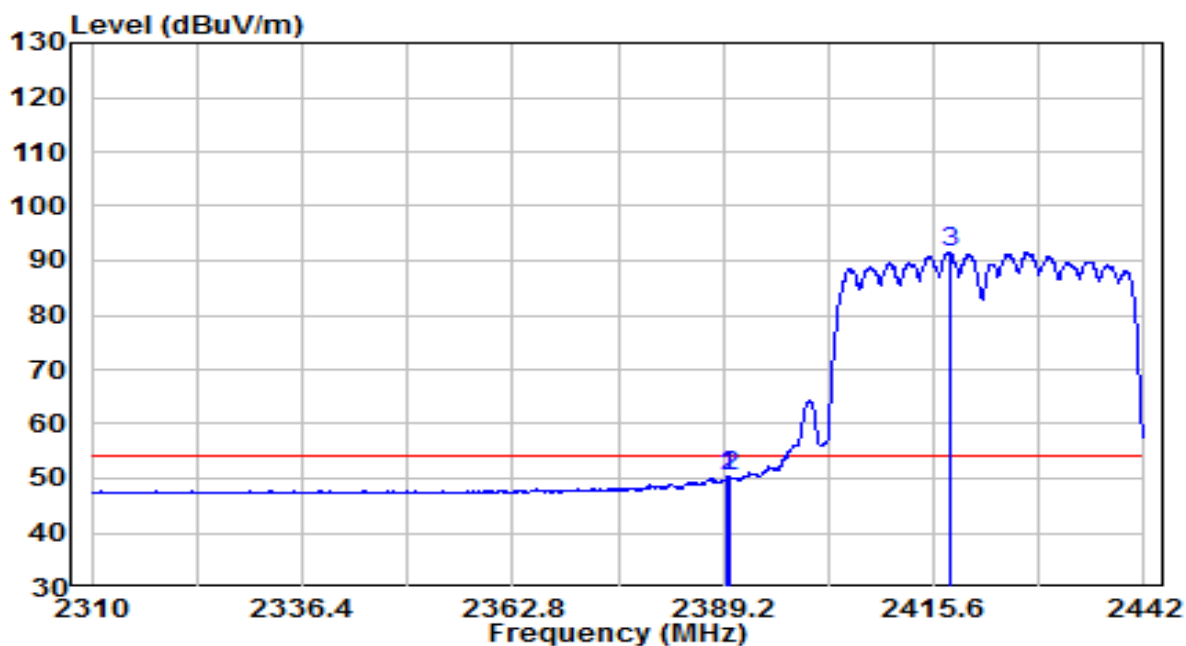


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2385.174	30.47	32.27	62.74	-11.26	74.00	Peak
2	2390.000	28.37	32.30	60.67	-13.33	74.00	Peak
3	* 2417.316	69.88	32.42	102.30	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	110V/60Hz

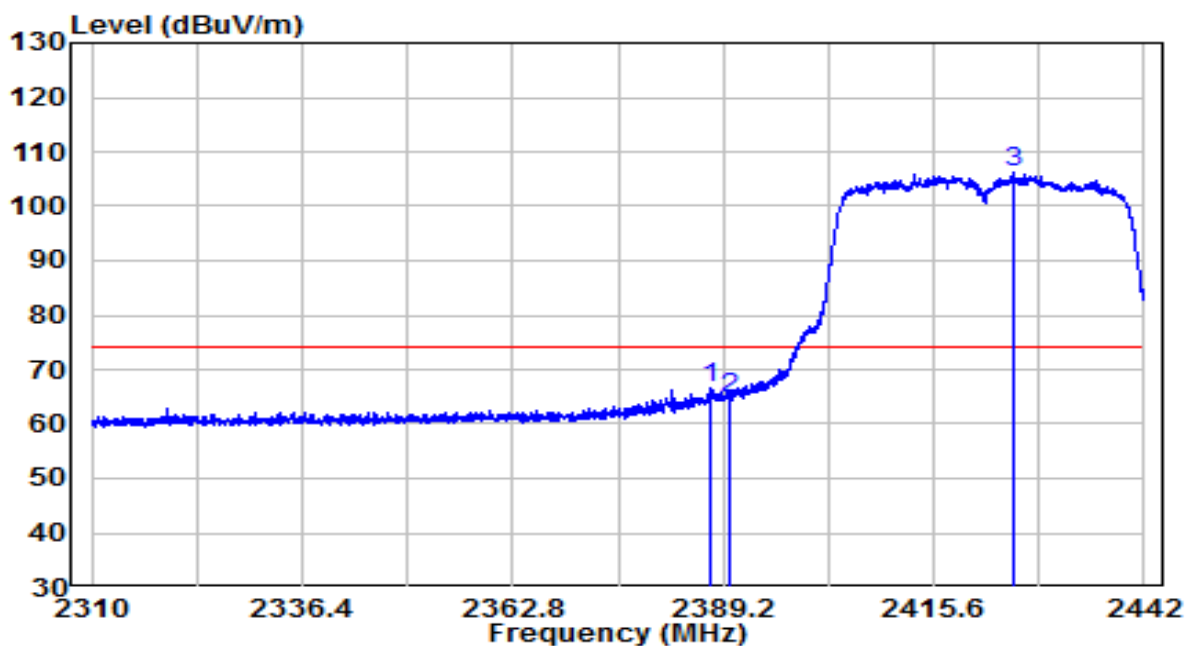


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.794	17.94	32.30	50.24	-3.76	54.00	Average
2	2390.000	17.93	32.30	50.22	-3.78	54.00	Average
3	* 2417.580	59.16	32.42	91.58	N/A	N/A	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	110V/60Hz

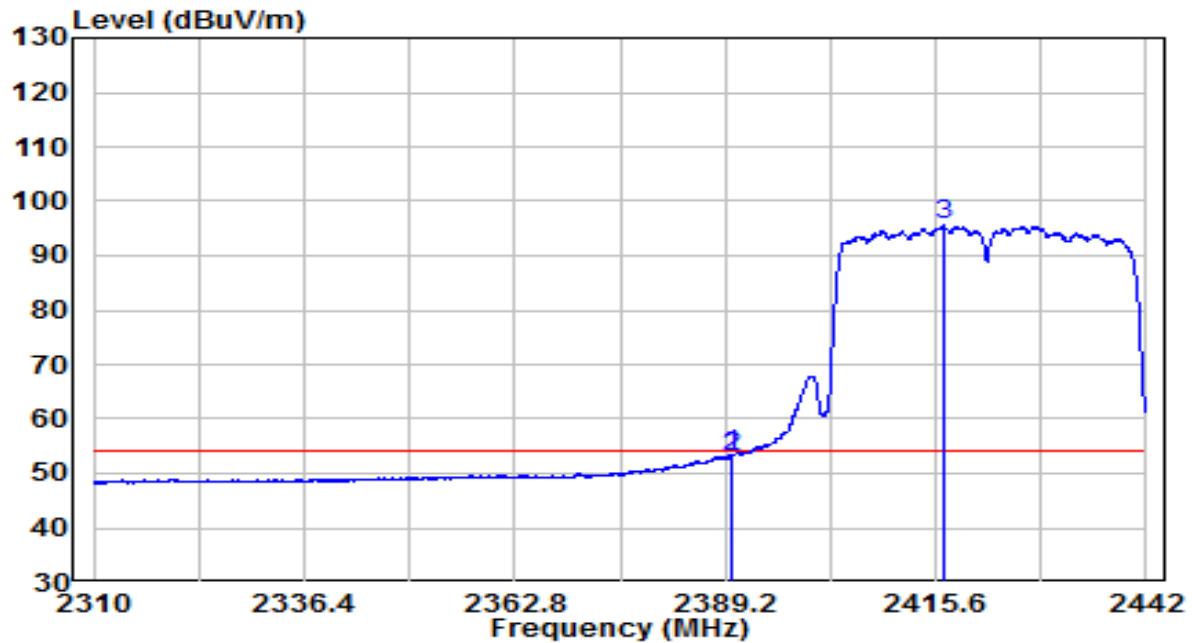


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2387.550	34.19	32.29	66.48	-7.52	74.00	Peak
2	2390.000	32.33	32.30	64.63	-9.37	74.00	Peak
3	* 2425.500	73.70	32.45	106.16	N/A	N/A	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2422MHz	Test Voltage	110V/60Hz

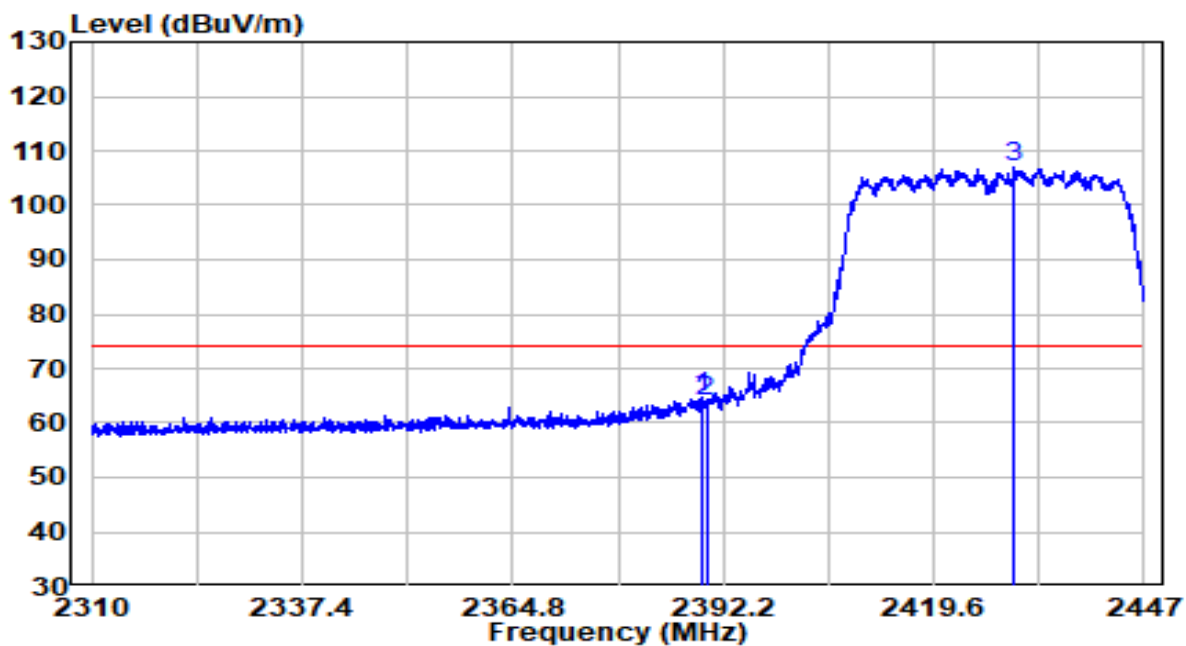


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.860	20.93	32.30	53.23	-0.77	54.00	Average
2	2390.000	20.84	32.30	53.14	-0.86	54.00	Average
3	* 2416.590	63.11	32.41	95.53	N/A	N/A	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2427MHz	Test Voltage	110V/60Hz

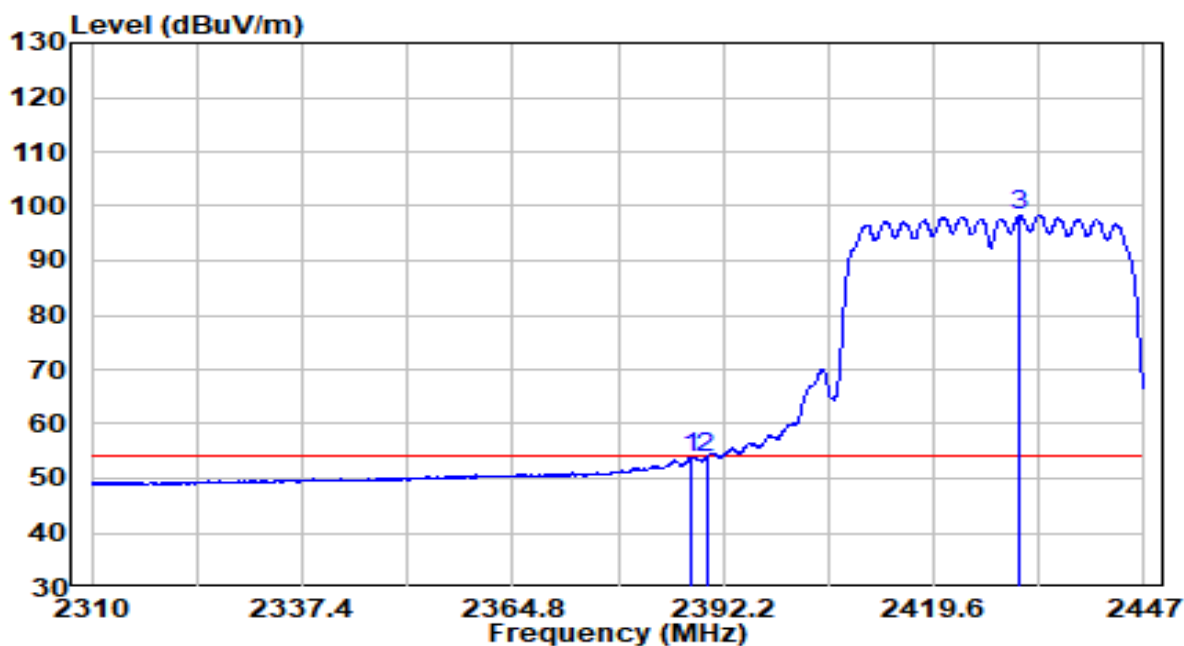


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2389.460	32.55	32.29	64.84	-9.16	74.00	Peak
2	2390.000	31.57	32.30	63.86	-10.14	74.00	Peak
3	* 2429.944	74.34	32.47	106.81	N/A	N/A	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2427MHz	Test Voltage	110V/60Hz

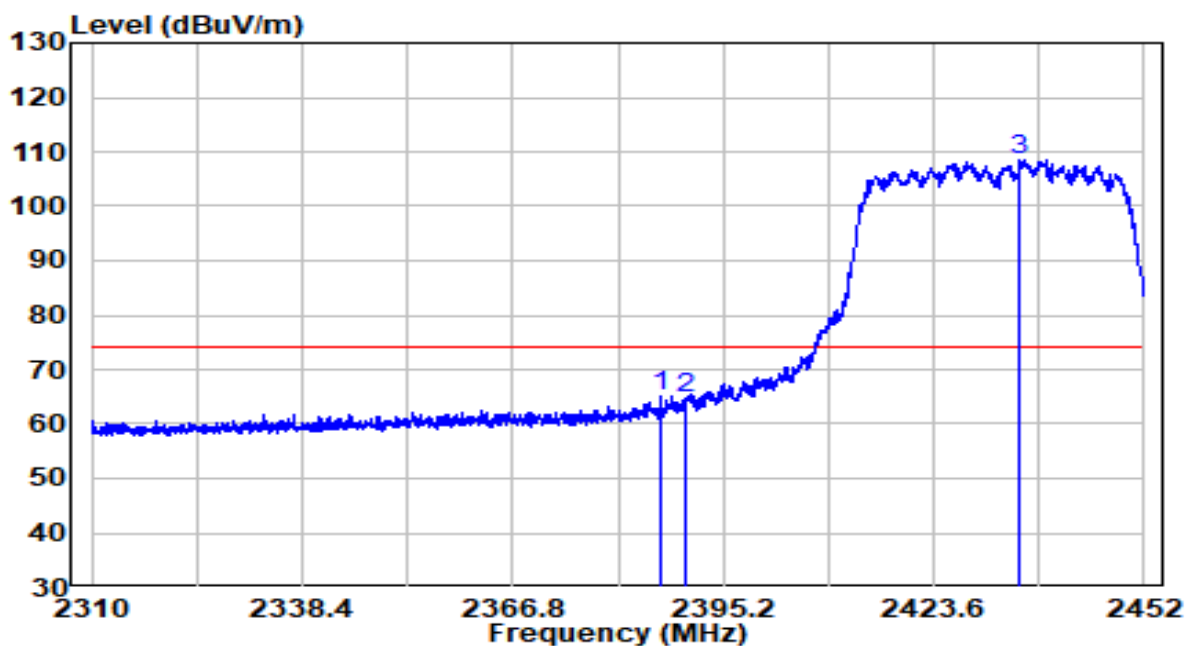


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.158	21.53	32.29	53.81	-0.19	54.00	Average
2	2390.000	21.45	32.30	53.75	-0.25	54.00	Average
3	* 2430.765	65.96	32.48	98.43	N/A	N/A	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2432MHz	Test Voltage	110V/60Hz

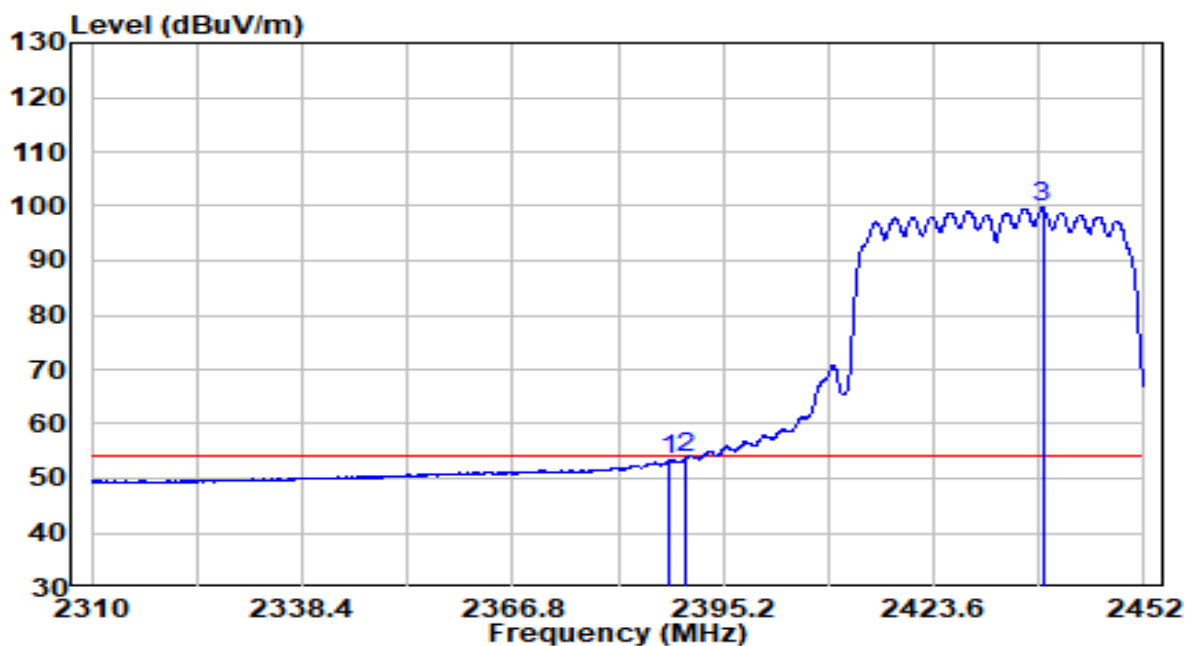


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2386.751	32.91	32.28	65.19	-8.81	74.00	Peak
2	2390.000	32.43	32.30	64.73	-9.27	74.00	Peak
3	* 2435.102	76.00	32.49	108.49	N/A	N/A	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2432MHz	Test Voltage	110V/60Hz

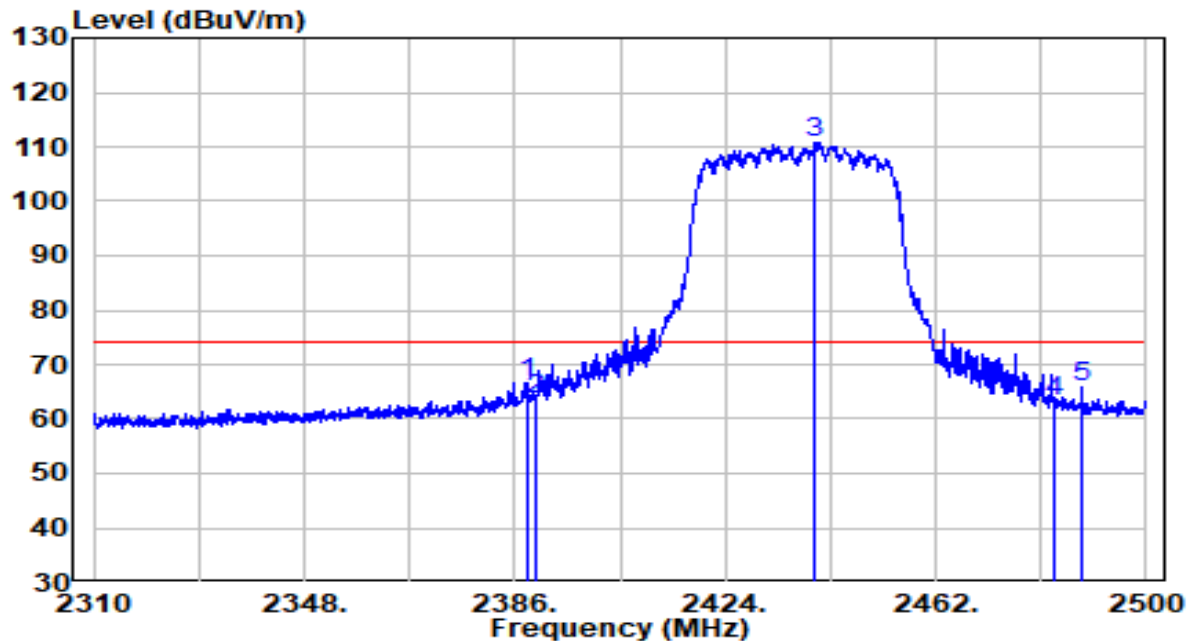


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2387.958	21.13	32.29	53.42	-0.58	54.00	Average
2	2390.000	21.32	32.30	53.62	-0.38	54.00	Average
3	* 2438.297	67.18	32.51	99.69	N/A	N/A	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2437MHz	Test Voltage	110V/60Hz

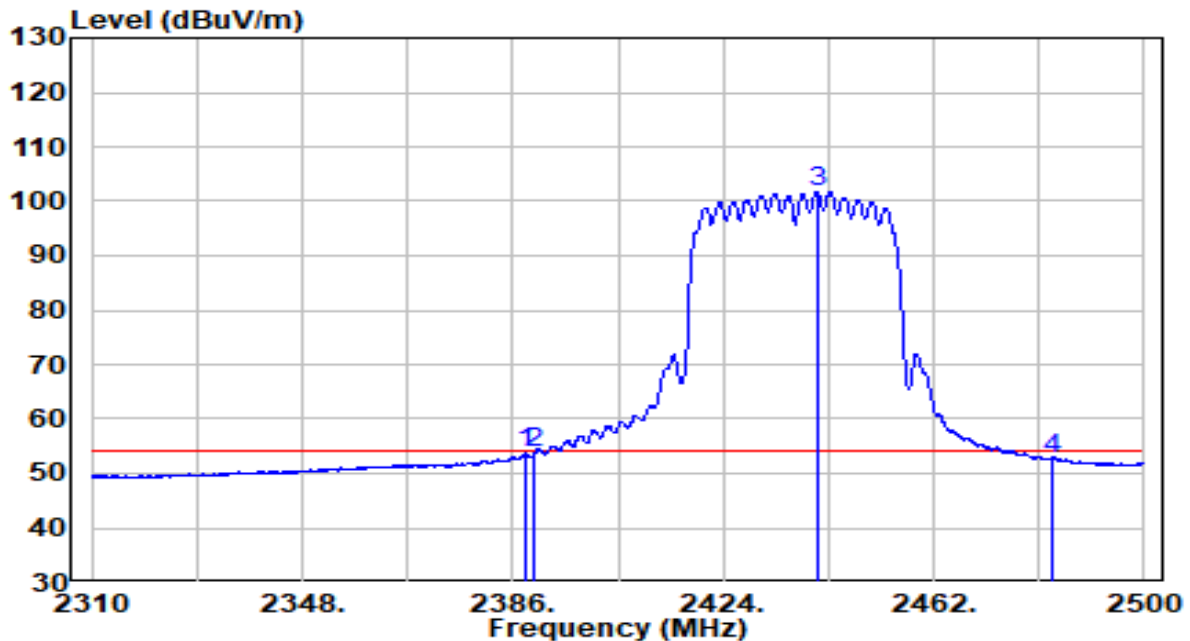


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.185	34.26	32.29	66.55	-7.45	74.00	Peak
2	2390.000	31.22	32.30	63.52	-10.48	74.00	Peak
3	* 2439.960	78.30	32.52	110.81	N/A	N/A	Peak
4	2483.500	30.64	32.71	63.34	-10.66	74.00	Peak
5	2488.220	32.99	32.73	65.71	-8.29	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2437MHz	Test Voltage	110V/60Hz

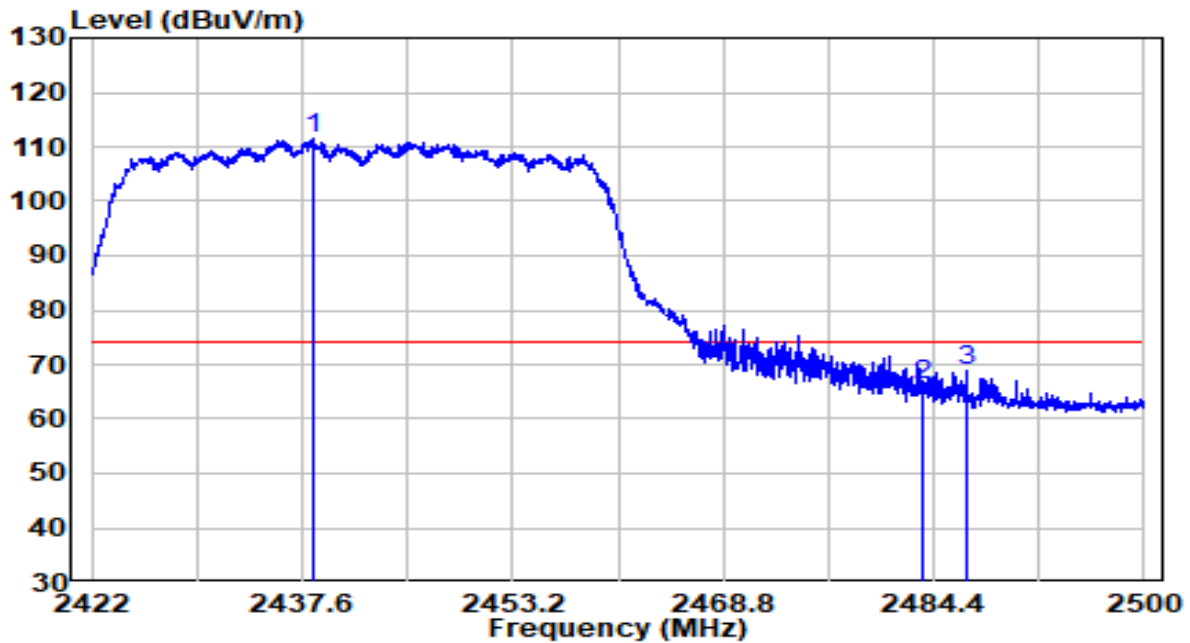


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	2388.375	21.41	32.29	53.70	-0.30	54.00	Average
2	2390.000	21.31	32.30	53.61	-0.39	54.00	Average
3	* 2441.005	69.32	32.52	101.84	N/A	N/A	Average
4	2483.500	20.00	32.71	52.71	-1.29	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2442MHz	Test Voltage	110V/60Hz

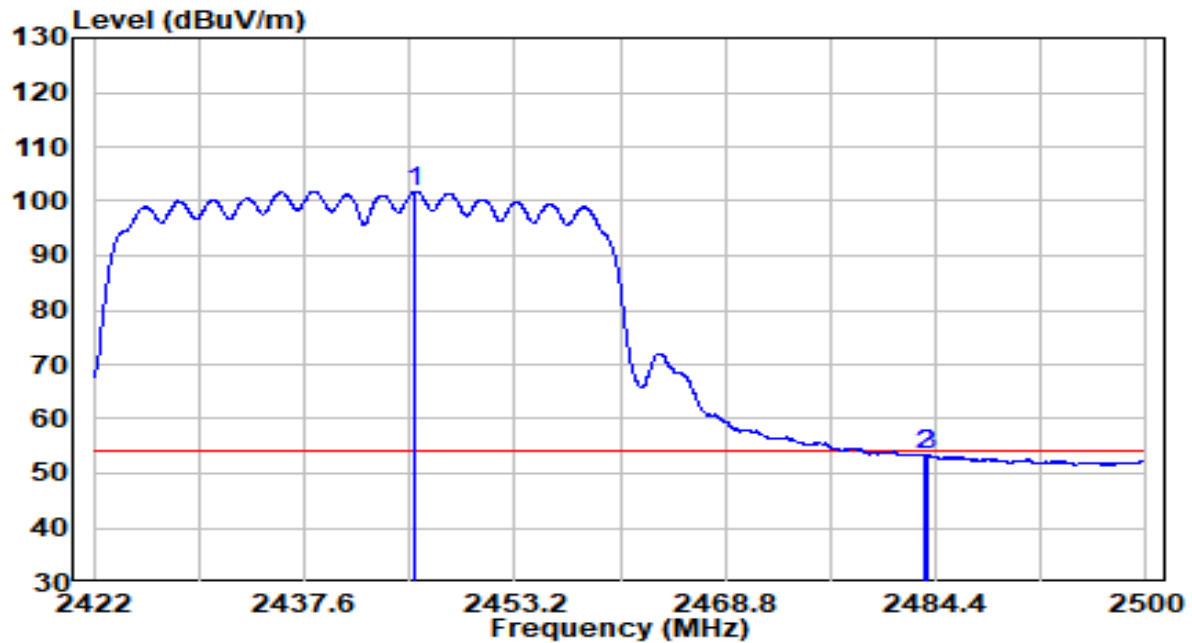


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2438.497	78.82	32.51	111.33	N/A	N/A	Peak
2		2483.500	33.42	32.71	66.13	-7.87	74.00	Peak
3		2486.896	36.18	32.72	68.91	-5.09	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2442MHz	Test Voltage	110V/60Hz

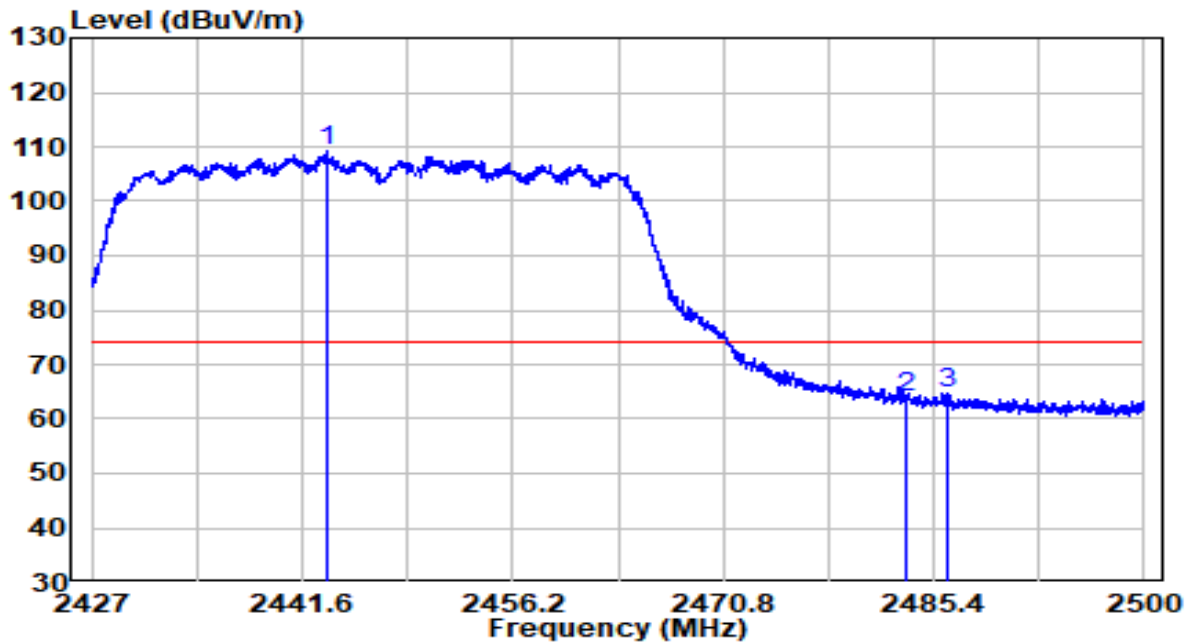


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2445.790	69.26	32.54	101.80	N/A	N/A	Average
2		2483.500	20.72	32.71	53.43	-0.57	54.00	Average
3		2483.698	20.77	32.71	53.47	-0.53	54.00	Average

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2447MHz	Test Voltage	110V/60Hz

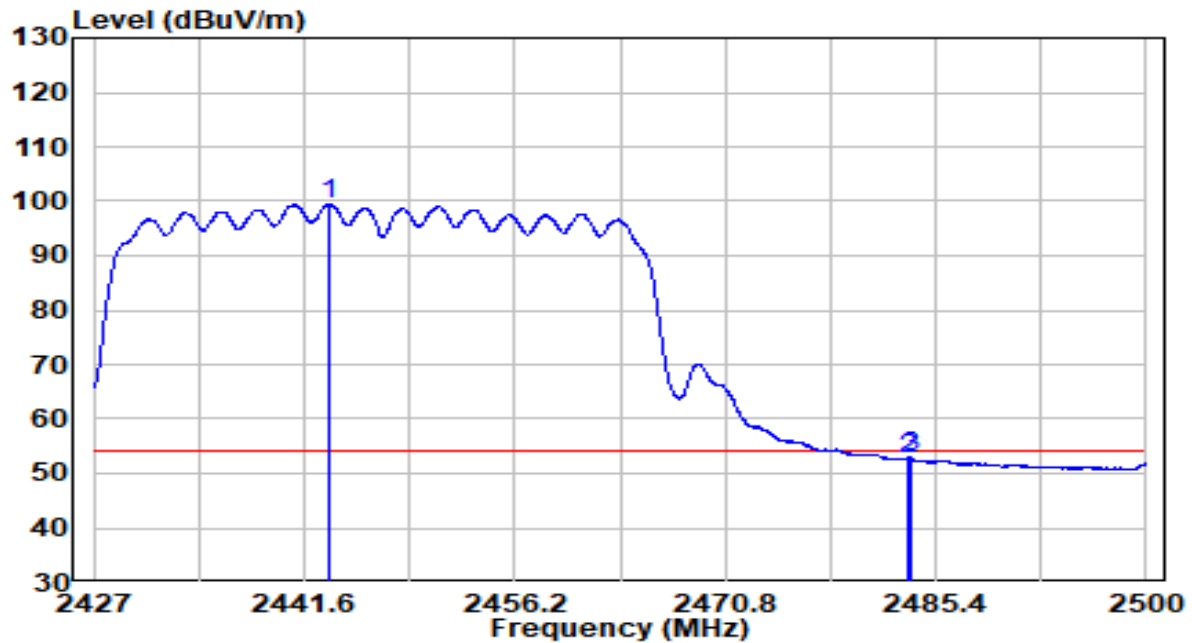


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2443.352	76.55	32.53	109.08	N/A	N/A	Peak
2		2483.500	31.41	32.71	64.12	-9.88	74.00	Peak
3		2486.385	31.97	32.72	64.69	-9.31	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-05-12
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2447MHz	Test Voltage	110V/60Hz

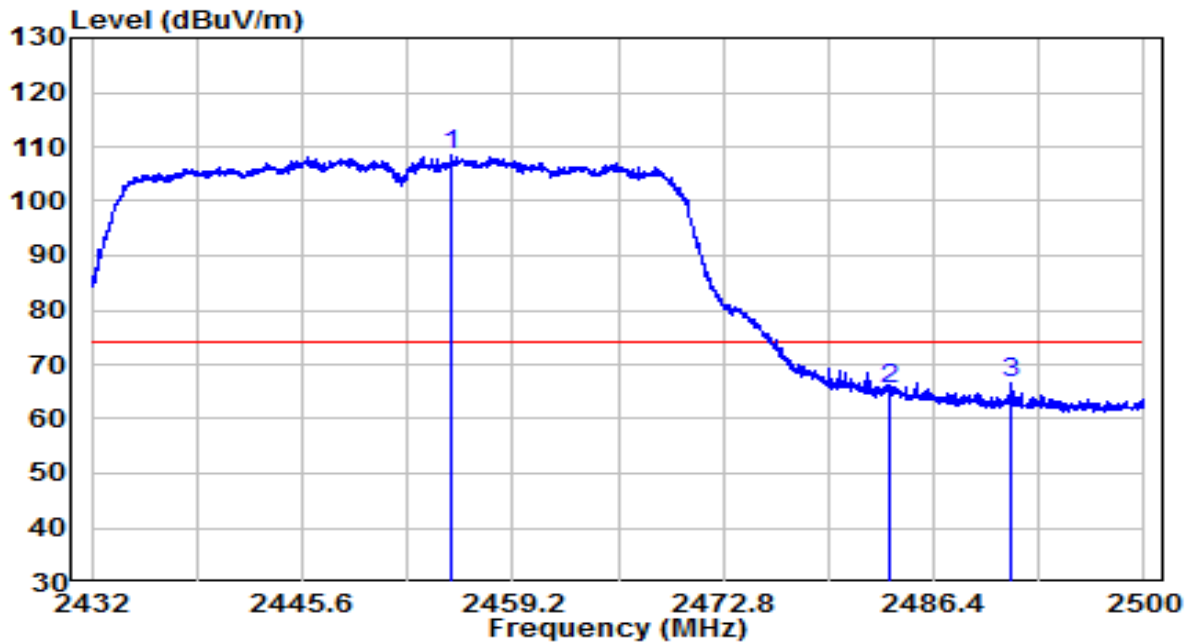


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2443.315	67.00	32.53	99.53	N/A	N/A	Average
2		2483.500	20.11	32.71	52.82	-1.18	54.00	Average
3		2483.685	20.16	32.71	52.87	-1.13	54.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2462MHz	Test Voltage	110V/60Hz

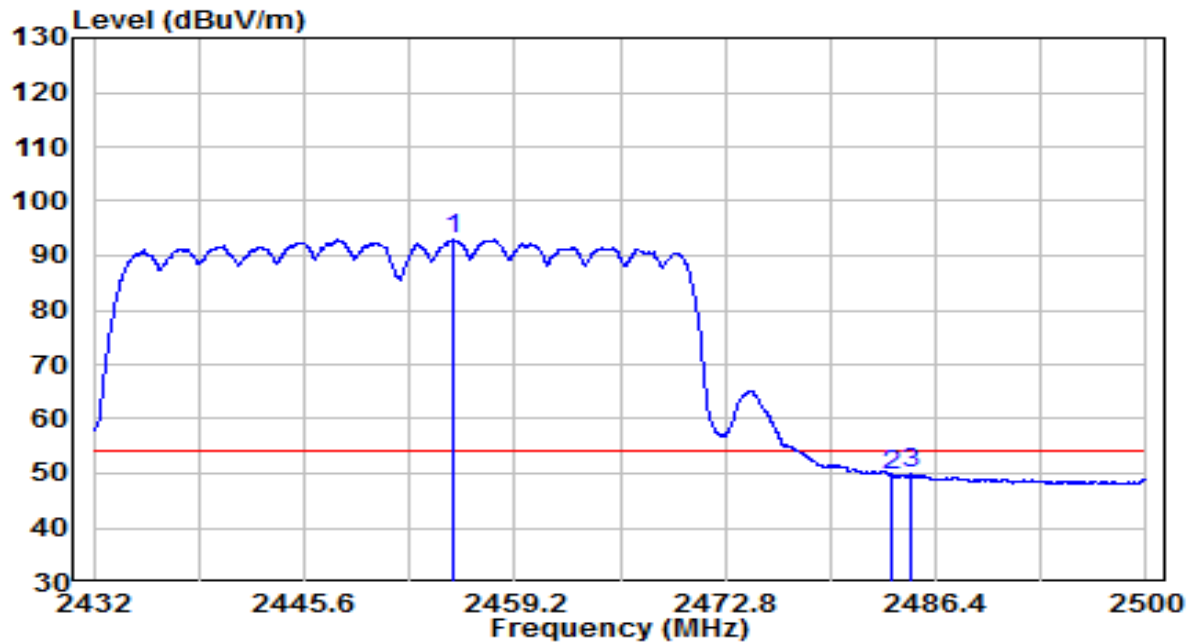


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.256	75.91	32.58	108.50	N/A	N/A	Peak
2		2483.500	32.95	32.71	65.66	-8.34	74.00	Peak
3		2491.466	33.93	32.74	66.68	-7.32	74.00	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2462MHz	Test Voltage	110V/60Hz

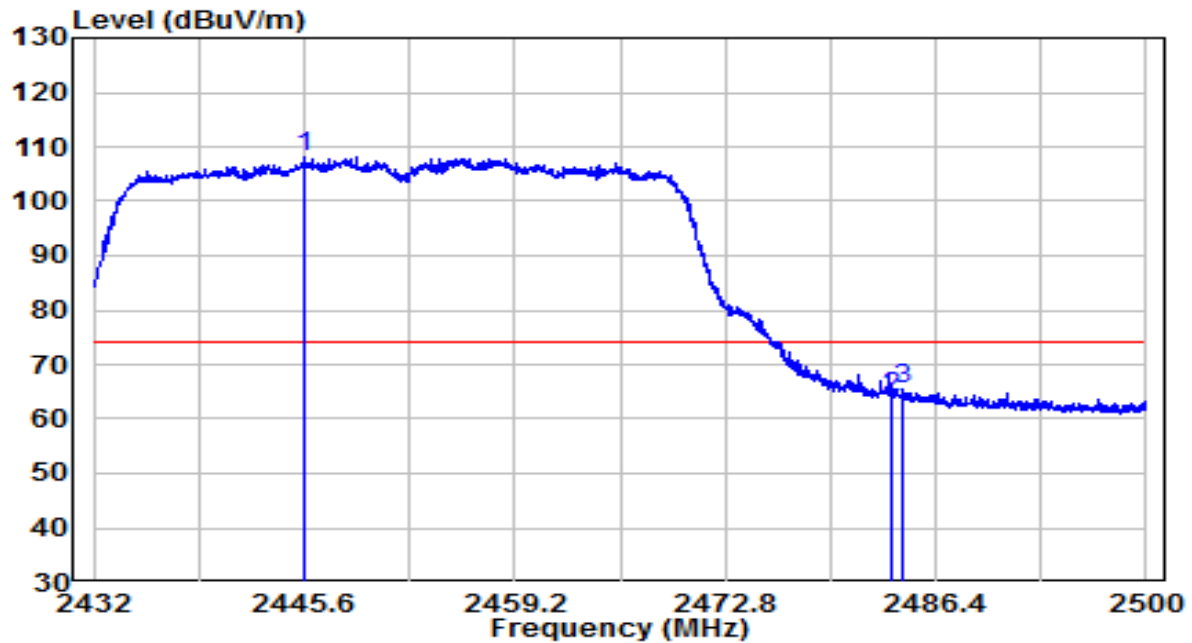


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.222	60.36	32.58	92.95	N/A	N/A	Peak
2		2483.500	17.04	32.71	49.75	-4.25	54.00	Peak
3		2484.734	17.18	32.71	49.90	-4.10	54.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	110V/60Hz

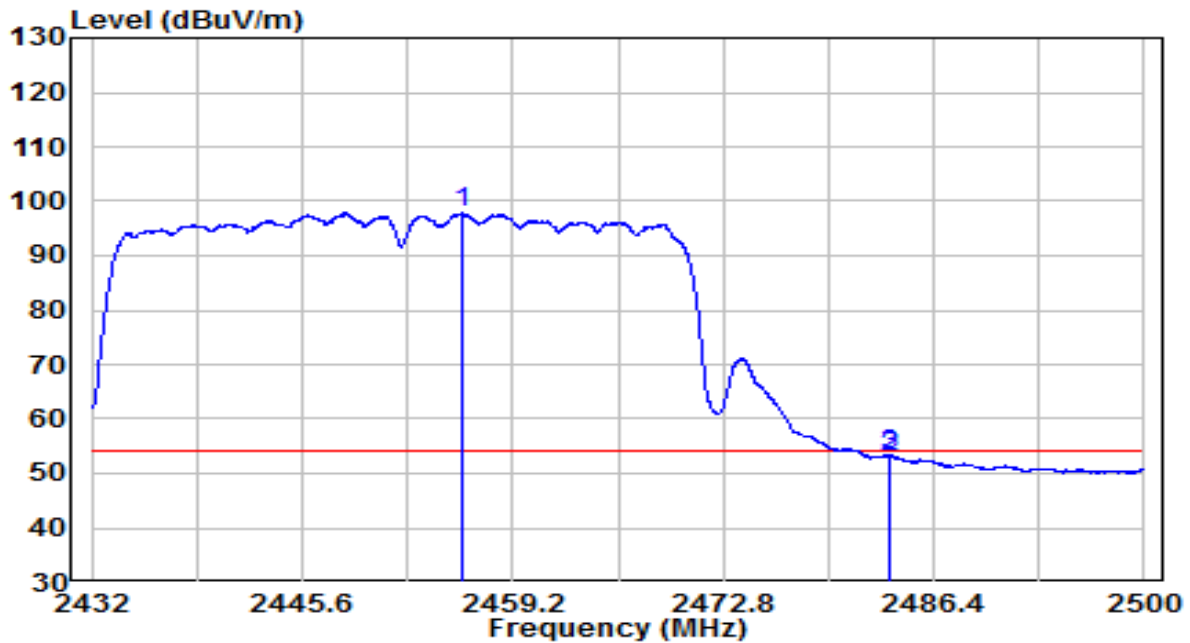


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2445.566	75.48	32.54	108.02	N/A	N/A	Peak
2		2483.500	31.34	32.71	64.05	-9.95	74.00	Peak
3		2484.292	32.73	32.71	65.44	-8.56	74.00	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
3. Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1500 Wi-Fi 6 範圍擴展器	Date of Test	2021-03-30
Factor	BBHA 9120D	Temp. / Humidity	25.2°C/37%
Polarity	Vertical	Site / Test Engineer	AC1 / Jay
Test Mode	Transmit by 802.11n-HT40 at Channel 2452MHz	Test Voltage	110V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1	*	2455.970	65.21	32.59	97.80	N/A	N/A	Peak
2		2483.500	20.47	32.71	53.18	-0.82	54.00	Peak
3		2483.612	20.70	32.71	53.41	-0.59	54.00	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB)
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

5.7. 佔用頻道寬度

5.7.1. 適用標準

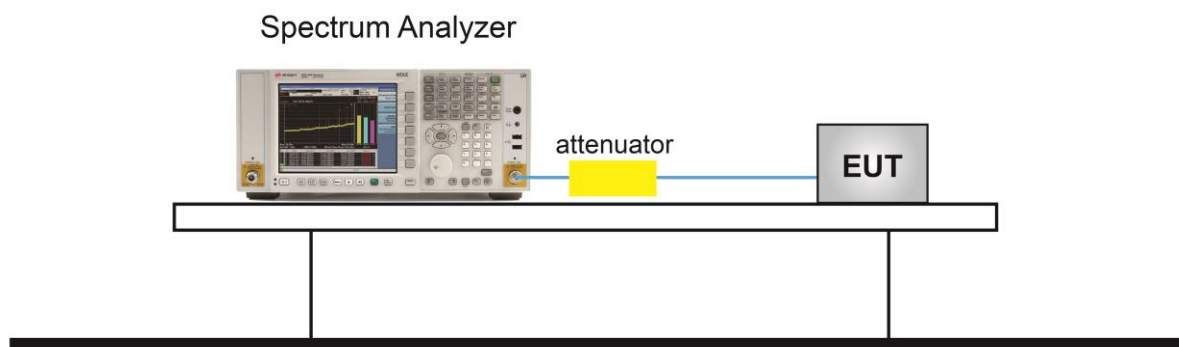
依據國家通訊傳播委員會低功率射頻器材技術規範之第 4.10.1.6(2)(A)節之要求，6dB 頻寬至少應有 500kHz。

5.7.2. 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為 100kHz，視訊頻寬不小於解析度頻寬，頻率掃瞄範圍(SPAN)遠大於解析度頻寬。

待測物應在正常發射狀態下量測。

5.7.3. 測試架構圖



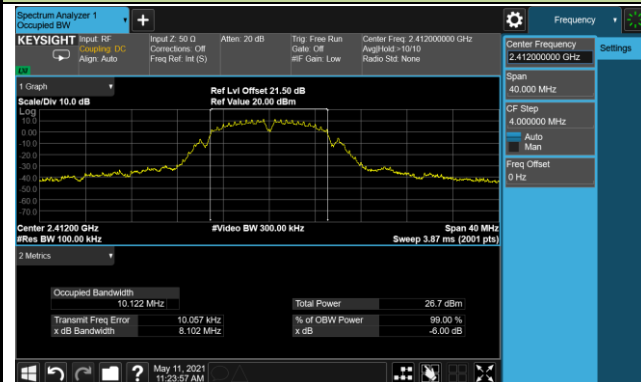
5.7.4. 佔用頻帶寬度測試結果

待測物名稱	AX1500 Wi-Fi 6 範圍擴展器	溫度	25°C
測試工程師	Eric Lin	濕度	54%
測試場地	SR2	測試日期	2021/05/11

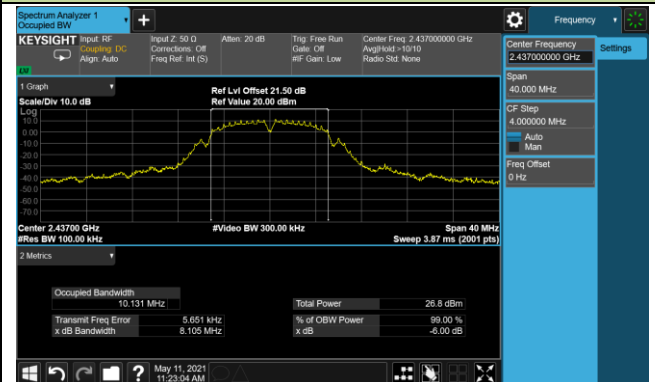
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11b	1Mbps	01	2412	8.10	≥ 0.5	Pass
802.11b	1Mbps	06	2437	8.11	≥ 0.5	Pass
802.11b	1Mbps	11	2462	8.08	≥ 0.5	Pass
Ant 0 / Ant 0 + 1						
802.11g	6Mbps	01	2412	16.47	≥ 0.5	Pass
802.11g	6Mbps	06	2437	16.41	≥ 0.5	Pass
802.11g	6Mbps	11	2462	16.48	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	17.61	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	17.64	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	17.66	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	35.67	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	35.76	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	35.93	≥ 0.5	Pass

802.11b 6dB Bandwidth - Ant 0

Channel 01 (2412MHz)



Channel 06 (2437MHz)

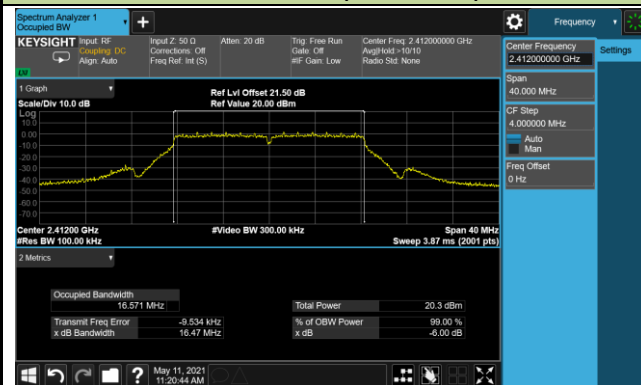


Channel 11 (2462MHz)

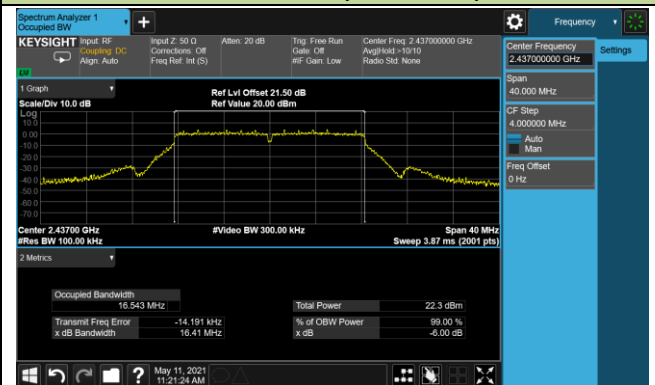


802.11g 6dB Bandwidth - Ant 0 / Ant 0 + 1

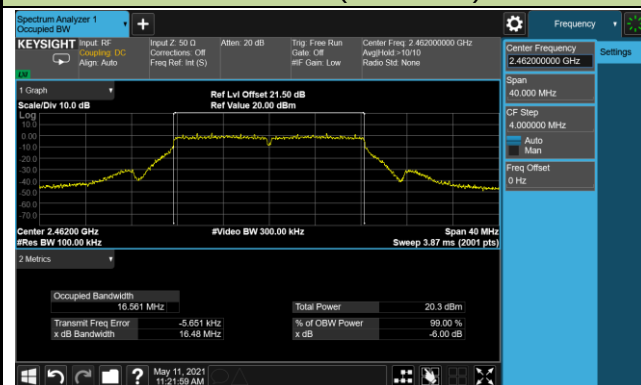
Channel 01 (2412MHz)



Channel 06 (2437MHz)

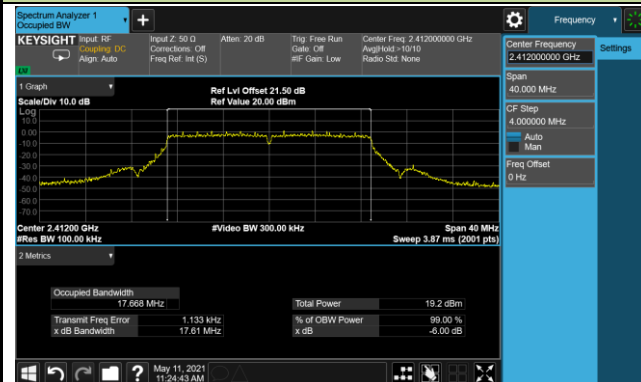


Channel 11 (2462MHz)

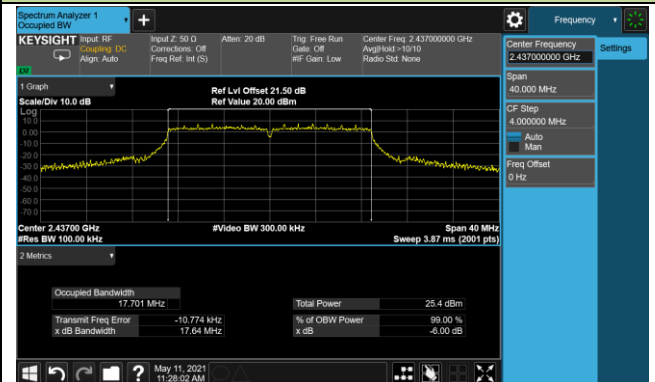


802.11n-HT20 6dB Bandwidth - Ant 0 / Ant 0 + 1

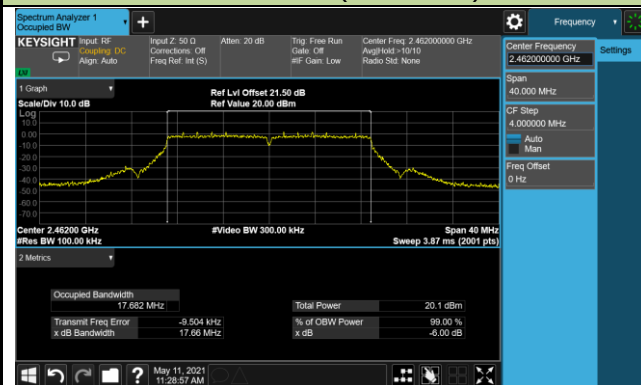
Channel 01 (2412MHz)



Channel 06 (2437MHz)

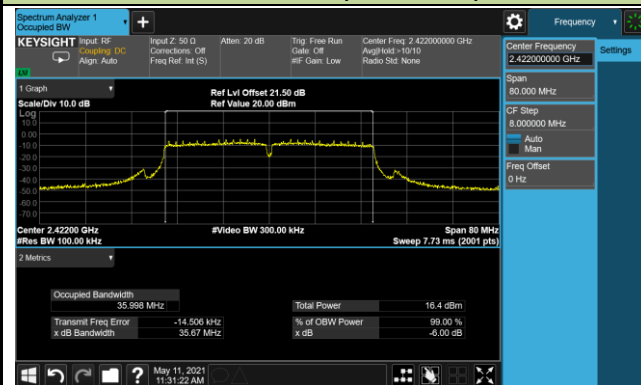


Channel 11 (2462MHz)

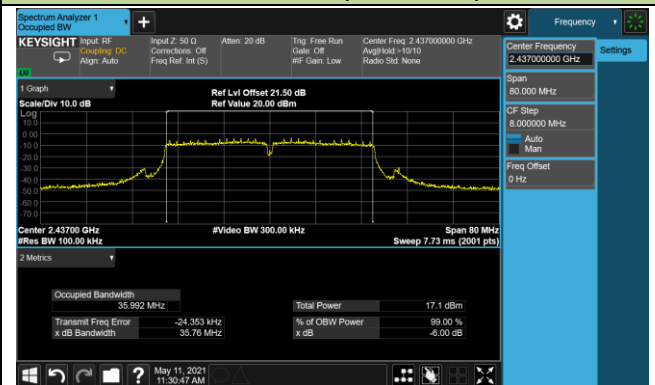


802.11n-HT40 6dB Bandwidth - Ant 0 / Ant 0 + 1

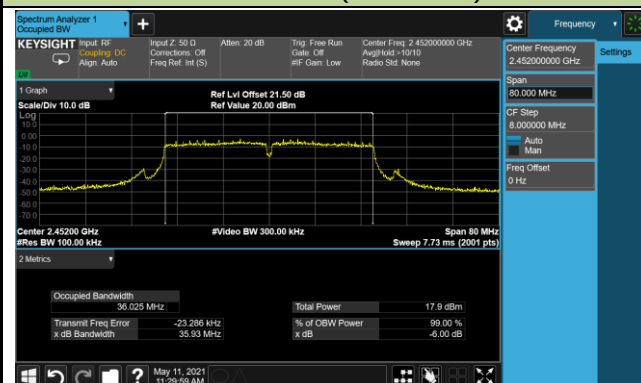
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



5.8. 發射電功率密度

5.8.1. 適用標準

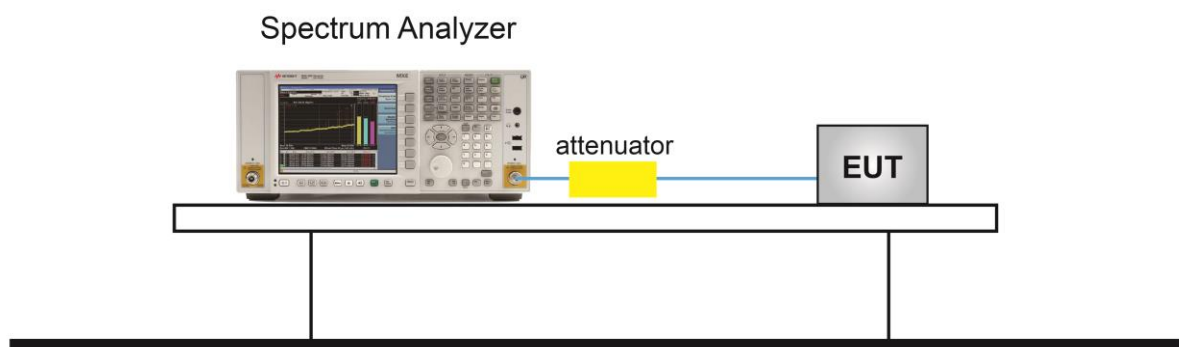
依據國家通訊傳播委員會低功率射頻器材技術規範之第 4.10.1.6(2)(B)節，在使用頻率範圍之任意 3 千赫(kHz)頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

5.8.2. 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。找出發射峰值並擴展於通帶內，設定頻譜分析儀之解析度頻寬為 3kHz，視訊頻寬大於解析度頻寬，掃瞄時間為頻率掃瞄範圍除以 3kHz。
($\text{SWEEP TIME} = \text{SPAN}/3\text{kHz}$)。

待測物應在正常發射狀態下量測。

5.8.3. 測試架構圖



5.8.4. 功率密度量測結果

待測物名稱	AX1500 Wi-Fi 6 範圍擴展器	溫度	25°C
測試工程師	Kevin Ker	濕度	54%
測試場地	SR1	測試日期	2021/05/11 ~ 2021/05/17

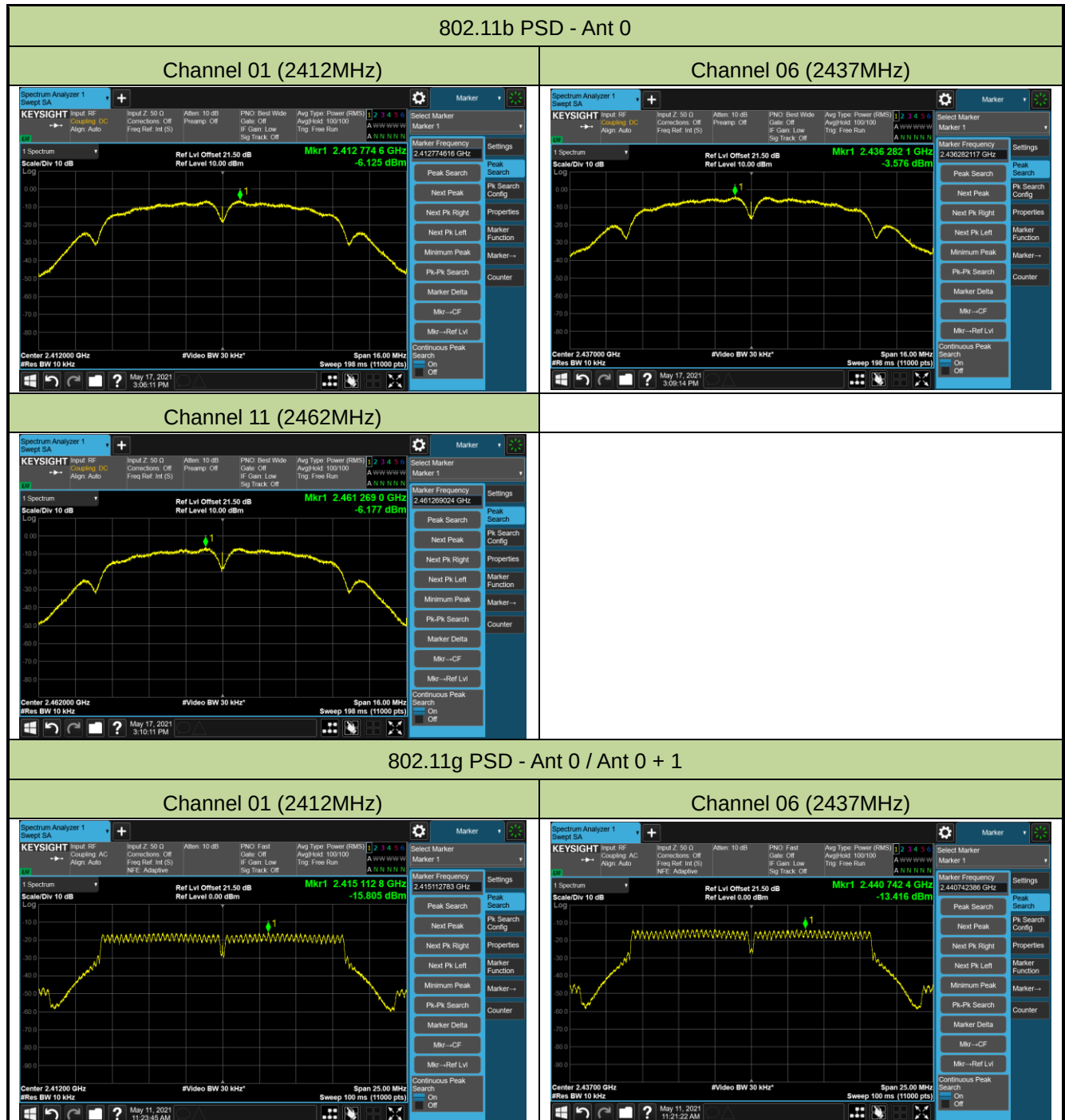
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/10kHz)	Ant 1 PSD (dBm/10kHz)	Duty Cycle (%)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Result
802.11b	1Mbps	01	2412	-6.13	--	95.89	-5.95	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-3.58	--	95.89	-3.40	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-6.18	--	95.89	-6.00	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-15.81	-14.84	95.73	-12.10	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-13.42	-13.15	95.73	-10.08	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-15.13	-14.67	95.73	-11.69	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-17.16	-16.31	95.69	-13.51	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-10.83	-10.33	95.69	-7.37	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-16.10	-15.65	95.69	-12.67	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-22.73	-20.73	92.64	-18.27	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-21.44	-19.60	92.64	-17.08	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-20.63	-18.55	92.64	-16.12	≤ 8.00	Pass

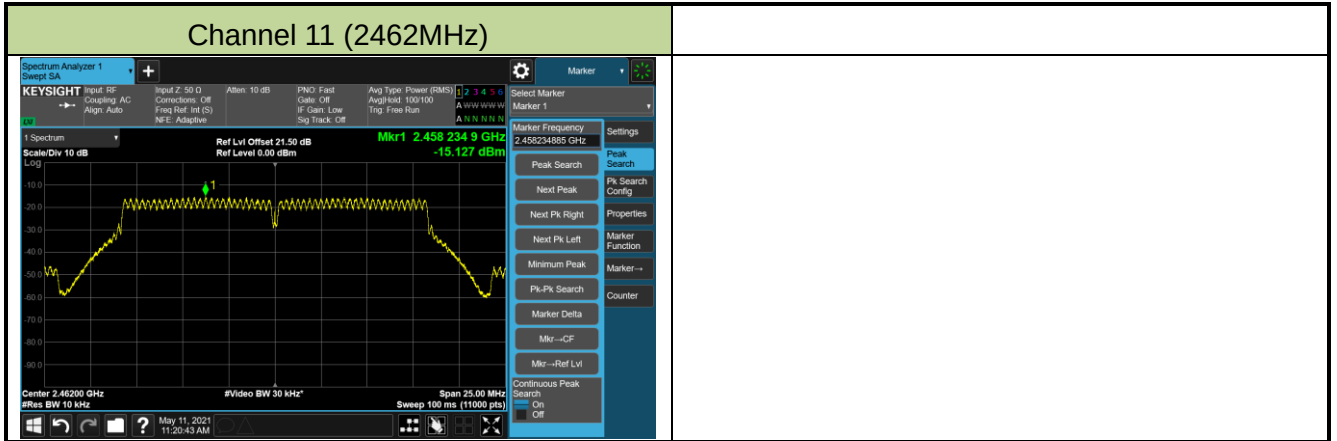
Note:

When EUT duty cycle > 98%, Total AVGPDS = $10 \cdot \log \{10^{(\text{Ant 0 AVGPDS}/10)} + 10^{(\text{Ant 1 AVGPDS}/10)}\}$.

When EUT duty cycle ≤ 98%, Total AVGPDS = $10 \cdot \log \{10^{(\text{Ant 0 AVGPDS}/10)} + 10^{(\text{Ant 1 AVGPDS}/10)}\} + 10 \cdot \log (1/\text{Duty Cycle})$.

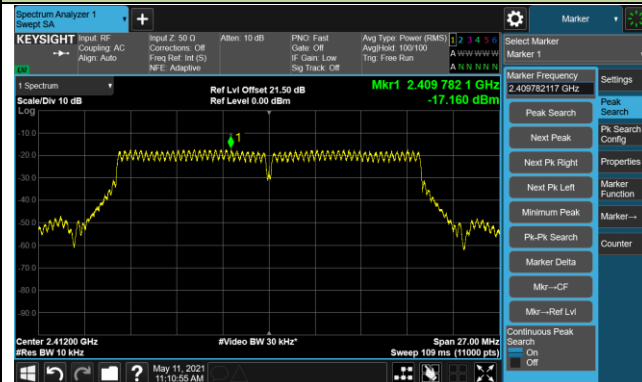
待測物名稱	AX1500 Wi-Fi 6 範圍擴展器	溫度	25°C
測試工程師	Kevin Ker	濕度	54%
測試場地	SR1	測試日期	2021/05/11 ~ 2021/05/17



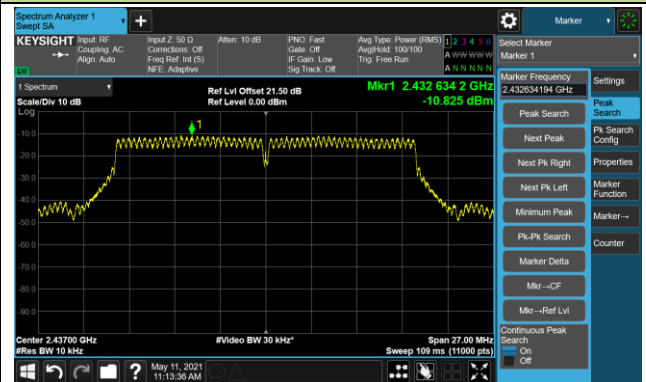


802.11n-HT20 PSD - Ant 0 / Ant 0 + 1

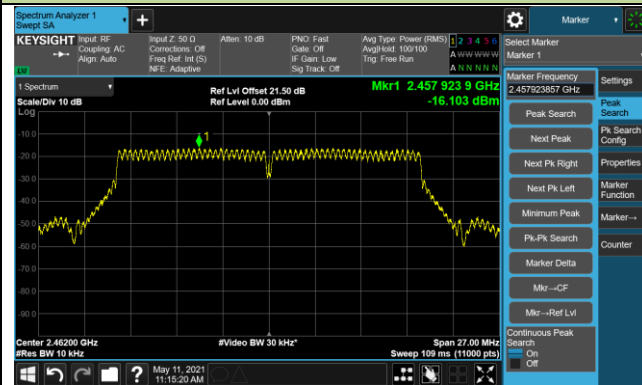
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

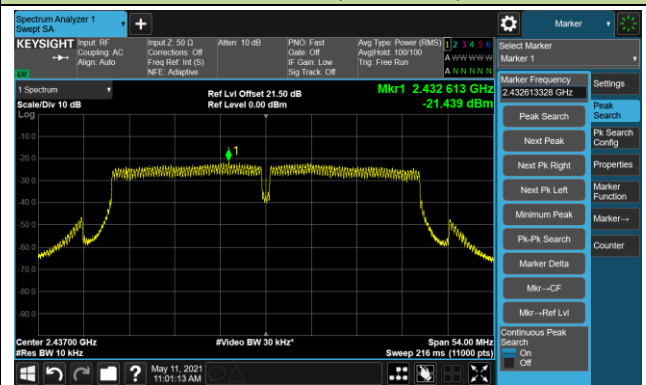


802.11n-HT40 PSD - Ant 0 / Ant 0 + 1

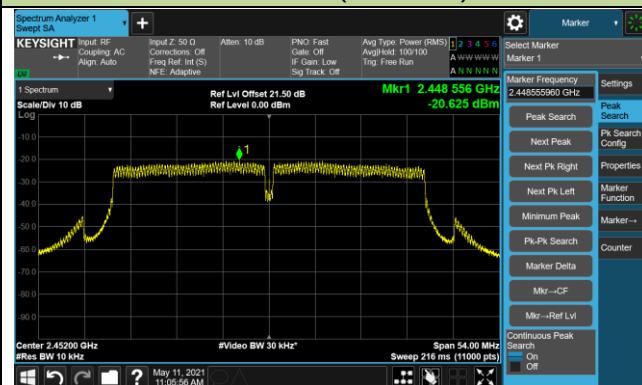
Channel 03 (2422MHz)



Channel 06 (2437MHz)

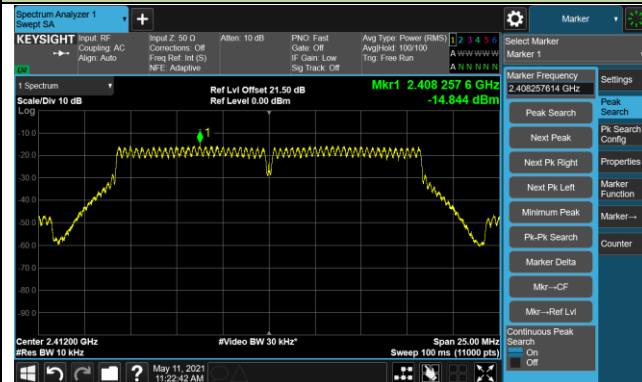


Channel 09 (2452MHz)

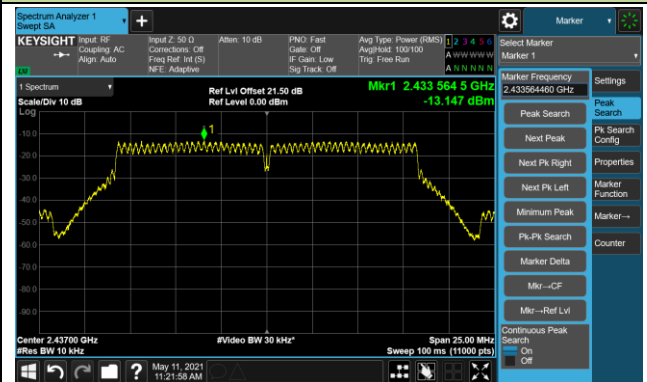


802.11g PSD - Ant 1 / Ant 0 + 1

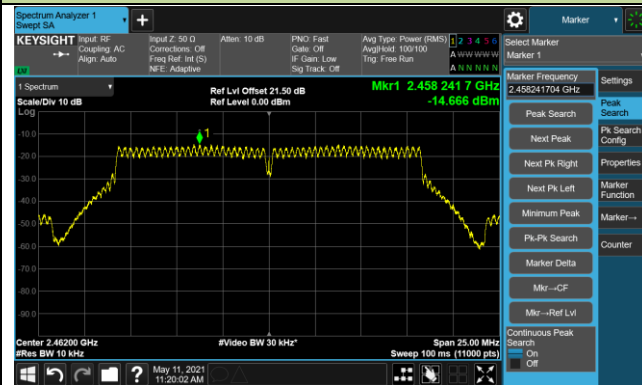
Channel 01 (2412MHz)



Channel 06 (2437MHz)

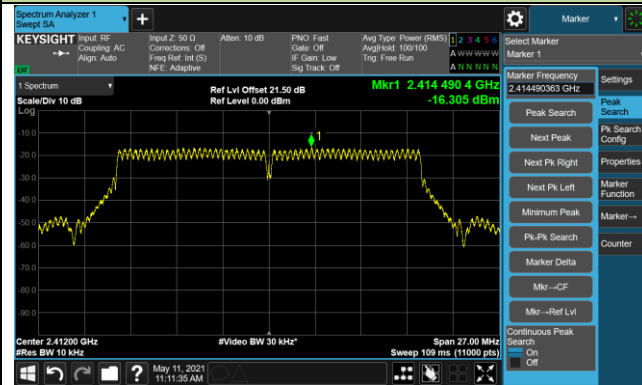


Channel 11 (2462MHz)

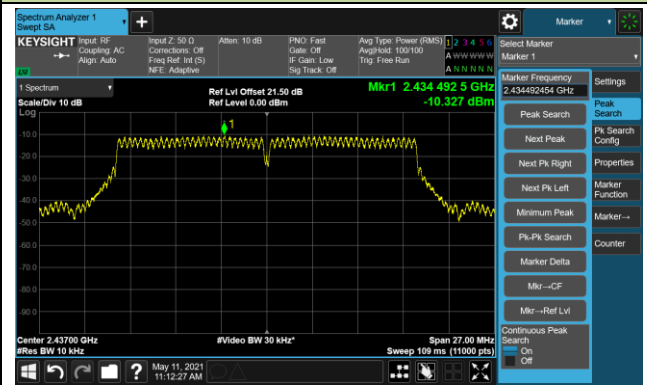


802.11n-HT20 PSD - Ant 1 / Ant 0 + 1

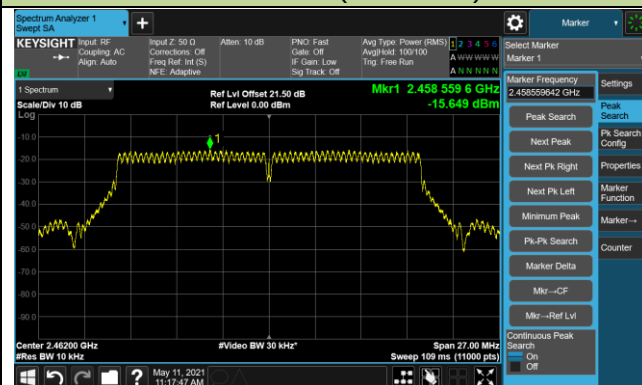
Channel 01 (2412MHz)



Channel 06 (2437MHz)

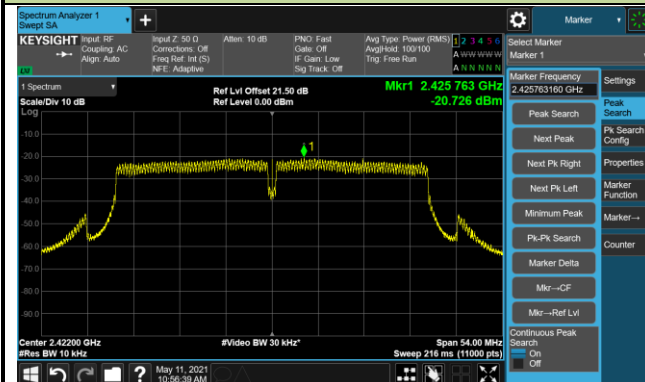


Channel 11 (2462MHz)

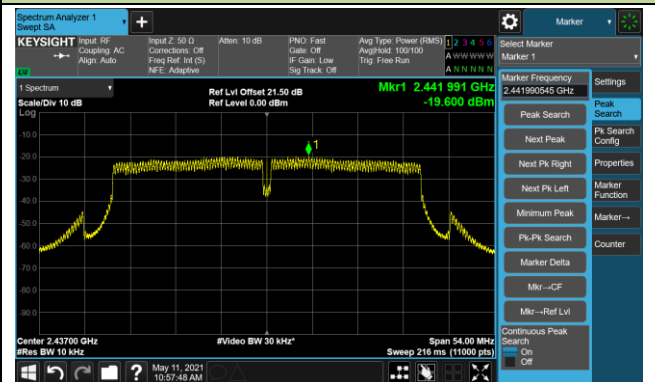


802.11n-HT40 PSD - Ant 1 / Ant 0 + 1

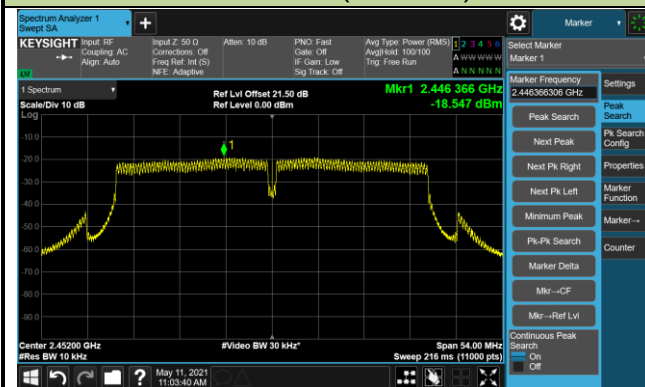
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



The End