

## 低功率射頻器材試驗報告



申請廠商 布迪科技有限公司  
製造廠商 臺北市中山區新生北路3段61號2樓之15  
產品名稱 ShenZhen V-SYS Technology Co.,Ltd.  
廠牌 行車紀錄器  
型號 EDM  
型號差異 EDM-X  
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Approved By:

楊景嵐

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

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

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

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## Revision History

| Report Number | Revision | Description | Issue Date        | Revised By |
|---------------|----------|-------------|-------------------|------------|
| ER/2021/A0061 | 00       | Original.   | 民國 110 年 12 月 8 日 | 林詩珊        |
|               |          |             |                   |            |
|               |          |             |                   |            |
|               |          |             |                   |            |
|               |          |             |                   |            |
|               |          |             |                   |            |
|               |          |             |                   |            |

## Note:

- 1、 Fully System 測試模式在各個無線功能全開下進行測試，經評估為最差模式。

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## 1 測試實驗室資料

### 1.1 認可登錄資訊:

實驗室認可登錄： 中華民國實驗室認證體系

認可編號： TAF 3702

認證有效期間： 110年06月14日起至113年06月13日止

實驗室名稱： 台灣檢驗科技股份有限公司射頻實驗中心

實驗室地址： 新北市新北產業園區五工路134號

電話： 886-2-22993939

傳真： 886-2-22982698

### 1.2 實驗室場地資訊

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

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## 2 實驗室量測不確定度

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

附註: 1. K=2 即代表測試結果具有95%的量測可信度。

2. 本報告中的符合性判定僅依據試驗結果，不考慮其試驗結果的量測不確定度。

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### 3 一般資料

#### 3.1 產品描述

|              |                                      |
|--------------|--------------------------------------|
| 產品名稱         | 行車紀錄器                                |
| 廠牌           | EDM                                  |
| 型號           | EDM-X                                |
| 型號差異         | N/A                                  |
| 使用電源         | DC 12V                               |
| 測試軟體 (名稱/版本) | Realtek 11n 8188F/0.0000.07.20190917 |

#### 3.2 射頻特性

##### WLAN 2.4GHz

| Wi-Fi            | Frequency Range | Channels                             | Rated Power in dBm (Peak) | Modulation Technology |
|------------------|-----------------|--------------------------------------|---------------------------|-----------------------|
| 802.11b          | 2412~2462       | 11                                   | 9.54                      | DSSS                  |
| 802.11g          | 2412~2462       | 11                                   | 18.19                     | OFDM                  |
| 802.11n20        | 2412~2462       | 11                                   | 17.89                     | OFDM                  |
| Modulation type: |                 | CCK, DQPSK, DBPSK for DSSS           |                           |                       |
|                  |                 | 64QAM, 16QAM, QPSK, BPSK for OFDM    |                           |                       |
| Data Rate:       |                 | 802.11 b: 1/2/5.5/11 Mbps            |                           |                       |
|                  |                 | 802.11 g: 6/9/12/18/24/36/48/54 Mbps |                           |                       |
|                  |                 | 802.11 n_20MHz:6.5 - 72.2Mbps        |                           |                       |

#### 3.3 天線資訊

| Antenna Type | Brand                             | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|-----------------------------------|------------------|-------------|-------------------------|
| FPCB         | Unictron Technologies Corporation | S2B4BG1F1B33000  | 2412~2462   | 2.48                    |

**Note:** Antenna information is provided by the applicant.

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## 3.4 配件資訊

| 是否附賣                                |                          | 配件   | 廠牌   | 型號       | Power Rating (Vdc) |
|-------------------------------------|--------------------------|------|------|----------|--------------------|
| Yes                                 | No                       |      |      |          |                    |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 攝影鏡頭 | 唯賽思通 | R7H-2053 | DC 5V              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 線控   | EDM  | EDM-X    | N/A                |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 電源線  | EDM  | EDM-X    | N/A                |

以下不附賣配件經申請者切結，器材不隨貨提供並由申請者提供併同檢驗。

| 是否附賣                     |                                     | 配件        | 廠牌  | 型號    | Power Rating (Vdc) |
|--------------------------|-------------------------------------|-----------|-----|-------|--------------------|
| Yes                      | No                                  |           |     |       |                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | USB CABLE | EDM | EDM-X | N/A                |

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#### 4 產品特性

此裝置符合IEEE Std 802.11標準，使用頻率表如下：

| 頻寬 20MHz 調變                |      |
|----------------------------|------|
| 頻率範圍 2400 MHz – 2483.5 MHz |      |
| 2412                       | 2442 |
| 2417                       | 2447 |
| 2422                       | 2452 |
| 2427                       | 2457 |
| 2432                       | 2462 |
| 2437                       |      |

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## 5 測試方法之依據

本測試報告之所有項目皆依據國家通訊傳播委員會低功率射頻器材技術規範(LP0002, 109.7.1 版本)如無國家標準可適用者，得依美國 EIA、IEEE ANSI 檢驗法檢驗，及美國 FCC 47 CFR Part 2 有關檢驗之規定及參考 ANSI C63.10:2013、FCC CFR 47 15.247 之檢驗法。

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

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## 6 量測模式

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

| Modulation                                   | Transmission Chain                      |                              |                              |                              | Single Transmission Spatial              | Multiple Transmission Spatial |
|----------------------------------------------|-----------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> 802.11 b | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX  | <input type="checkbox"/> 2TX  |
| <input checked="" type="checkbox"/> 802.11 g | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX  | <input type="checkbox"/> 2TX  |
| <input checked="" type="checkbox"/> 802.11 n | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> SISO | <input type="checkbox"/> MIMO |

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

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

**Note:**

The field strength of radiation emission was measured as EUT three orthogonal planes, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested and recorded.

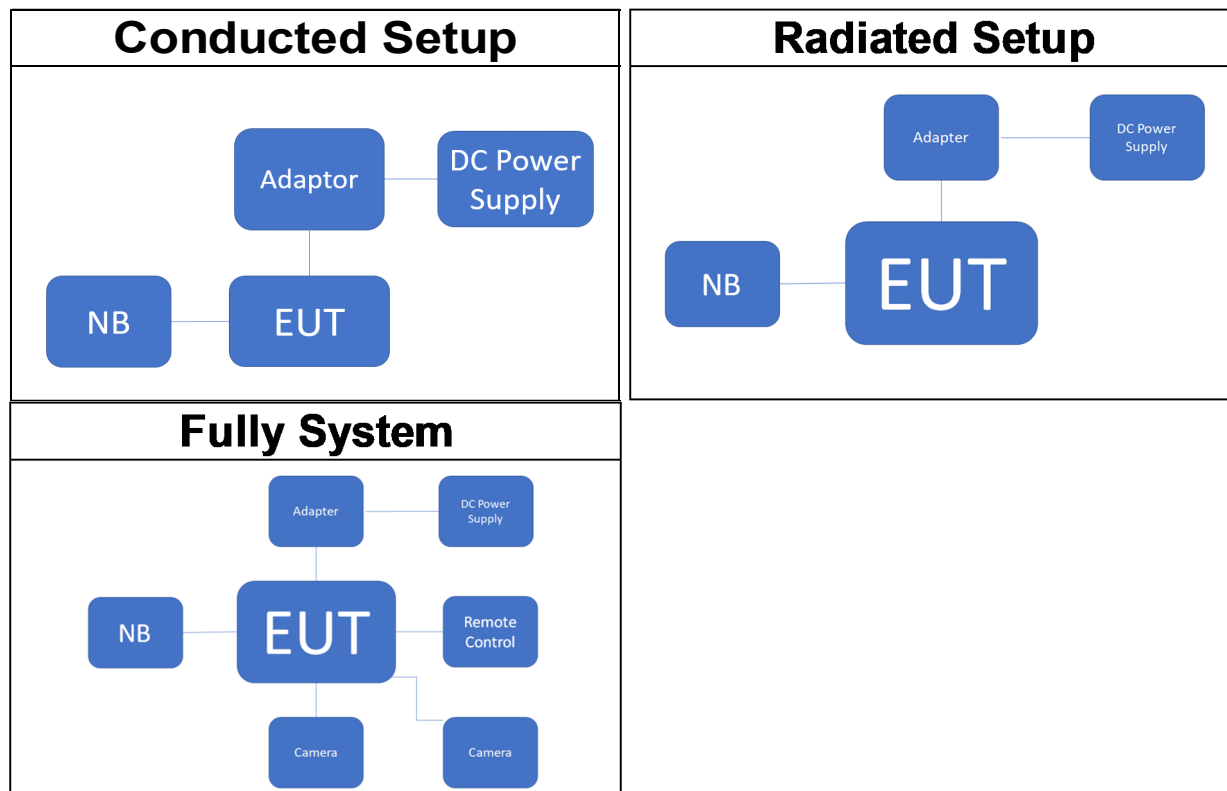
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## 7 測試週邊

### 7.1 待測物與測試週邊配置圖



### 7.2 測試週邊描述

#### 7.2.1 Conducted

| Conducted Emission Test Site: Conducted 2 |          |                     |               |            |            |
|-------------------------------------------|----------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR      | MODEL NUMBER        | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Test Software                             | SGS      | Radio Test Software | Ver. 21       | N.C.R      | N.C.R      |
| USB cable                                 | EDM      | EDM-X               | N/A           | N/A        | N/A        |
| Notebook                                  | Lenovo   | T440P               | PB-02Y6RK     | N/A        | N/A        |
| Adapter                                   | EDM      | EDM-X               | N/A           | N/A        | N/A        |
| DC Power Supply                           | Gwinstek | SPS-3610            | GEV856750     | 08/04/2021 | 08/03/2022 |

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## 7.2.2 Radiated

| Radiated Emission Test Site: SAC 1 |          |              |               |            |            |
|------------------------------------|----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                     | MFR      | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Test Software                      | Audix    | e3           | Ver. 9.210322 | N.C.R      | N.C.R      |
| Notebook                           | Lenovo   | T440P        | PC-01FYE9     | N/A        | N/A        |
| Adapter                            | EDM      | EDM-X        | N/A           | N/A        | N/A        |
| USB Cable                          | EDM      | EDM-X        | N/A           | N/A        | N/A        |
| DC Power Supply                    | Gwinstek | SPS-3610     | GEV856750     | 08/04/2021 | 08/03/2022 |

## 7.2.3 Fully System

| Radiated Emission Test Site: SAC 1 |          |                        |               |            |            |
|------------------------------------|----------|------------------------|---------------|------------|------------|
| EQUIPMENT TYPE                     | MFR      | MODEL NUMBER           | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Test Software                      | Audix    | e3                     | Ver. 9.210322 | N.C.R      | N.C.R      |
| Notebook                           | Lenovo   | T440P                  | PC-01FYE9     | N/A        | N/A        |
| Adapter                            | EDM      | EDM-X                  | N/A           | N/A        | N/A        |
| Camera                             | 唯賽思通     | R7H-2053               | N/A           | N/A        | N/A        |
| Remote Control                     | EDM      | EDM-X                  | N/A           | N/A        | N/A        |
| EMI 磁扣                             | 祥業       | B29UH26*29.2*13(1130R) | N/A           | N/A        | N/A        |
| DC Power Supply                    | Gwinstek | SPS-3610               | GEV856750     | 08/04/2021 | 08/03/2022 |

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## 8 適用規範

禁用頻帶限制之規定

依據NCC低功率射頻器材技術規範3.5節之要求，任何低功率射頻器材之主波皆不得使用下表所列各頻帶內之頻率；低功率射頻器材落於下表所列頻帶內之混附發射，其電場強度必須符合第3.6節的限制規定。

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

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

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## 9 電源線傳導干擾量測

### 9.1 適用標準

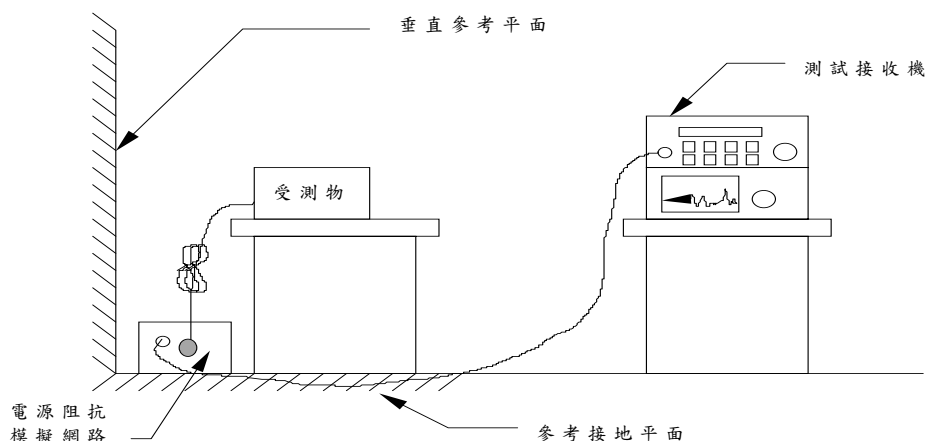
依據NCC低功率射頻器材技術規範之3.3節，以市電為電源之低功率射頻器材，其傳導回電源線上頻率自150 kHz~30 百萬赫(MHz) 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限制值。測量時應經過50 微亨利(uH)及50 歐姆( $\Omega$ )之電源線阻抗穩定網路。頻率重疊處，以較低限制值為準。

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

### 9.2 測試方法

將待測物置於0.8米高的非金屬桌面，使其在工作狀態，待測物電源線接至電源線阻抗穩定網路上，從測試接收機記錄頻率由 0.15MHz 至 30MHz 之間之電源線傳導放射強度的峰值量側(Peak)並提供掃描圖, Mark 最大的六個頻率點進行準峰值量測(QP),如果準峰值QP結果值已低於AV限制值時將不再進行AV值的量測。

### 9.3 測試配置



### 9.4 量測儀器

N/A

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## 9.5 干擾值計算

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

## 9.6 傳導干擾量測結果

N/A，此產品使用 DC 12V 電源，故無須測試。

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## 10 輸出峰值功率量測

### 10.1 適用標準

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

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

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

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

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

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

### 10.2 量測儀器

| Conducted Emission Test Site: Conducted 2 |               |              |               |            |            |
|-------------------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY60242081    | 09/30/2021 | 09/29/2022 |
| Power Meter                               | Anritsu       | ML2496A      | 1804001       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726104       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726107       | 03/02/2021 | 03/01/2022 |
| DC Power Supply                           | Gwinstek      | SPS-3610     | GEV856750     | 08/04/2021 | 08/03/2022 |
| Attenuator                                | Mini-Circuit  | BW-S10W2+    | 2             | 12/16/2020 | 12/15/2021 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/16/2020 | 12/15/2021 |

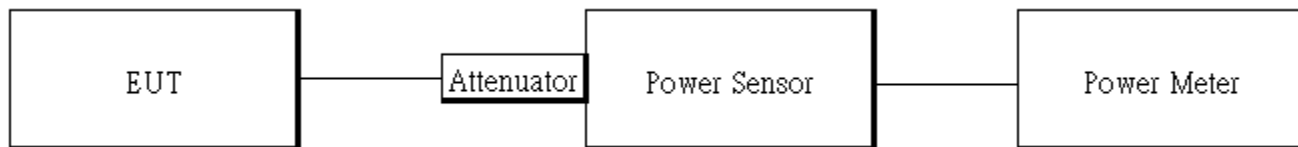
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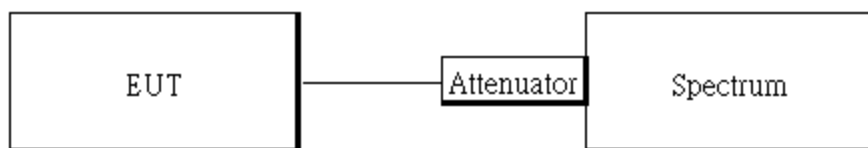
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## 10.3 測試配置

### 10.3.1 輸出峰值量測



### 10.3.2 載波頻率工作週期量測



## 10.4 量測方式

### 10.4.1 載波頻率工作週期儀器設定

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

### 10.4.2 輸出功率量測

1. 將 EUT 置於發射模式。
2. 移除天線，使用 low loss cable 連接 EUT 的 antenna port 及 power meter。
3. 檢查每種模式的工作週期以補償工作週期校正因子 (Duty Factor)。
4. 紀錄最大功率讀值。

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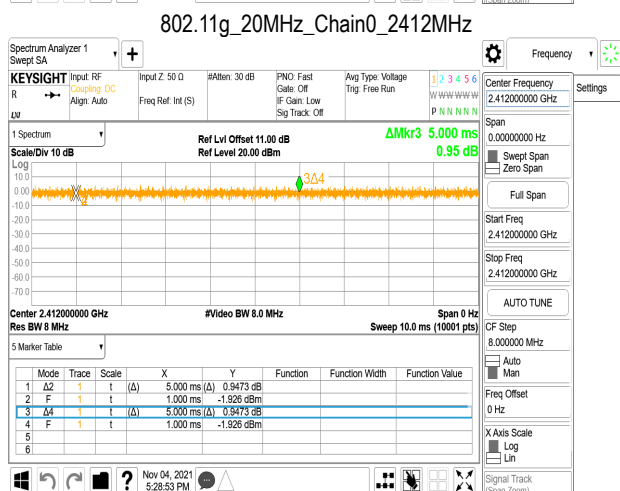
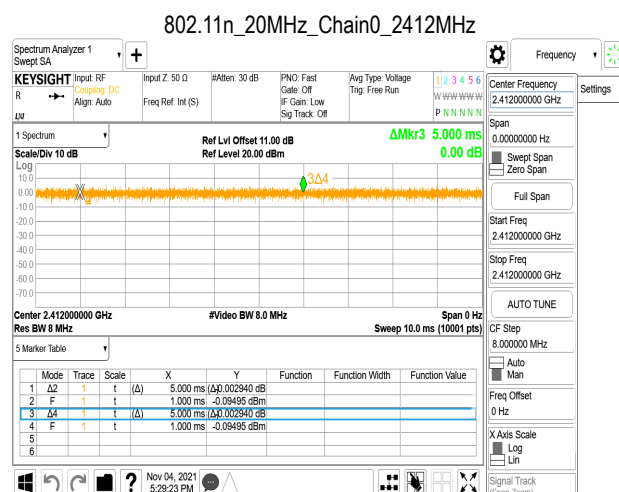
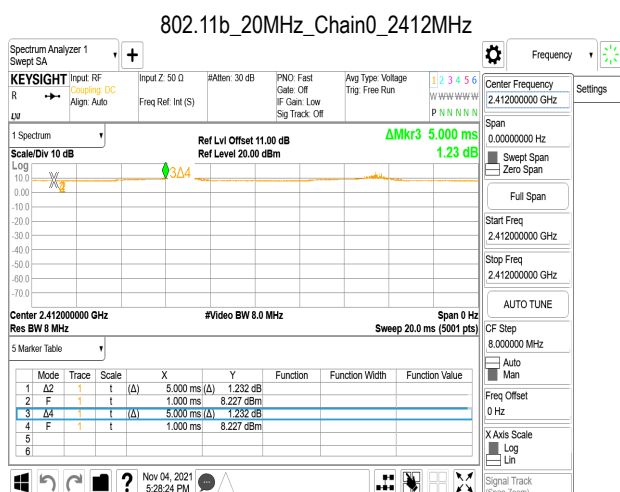
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## 10.5 量測結果

### 10.5.1 載波頻率工作週期

|            | Duty Cycle (%)<br>= Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) | 1/T<br>(kHz) | VBW setting<br>(kHz) |
|------------|--------------------------------------|----------------------------------------------|--------------|----------------------|
| 802.11b    | 100.00                               | 0.00                                         | 0.00         | 0.01                 |
| 802.11g    | 100.00                               | 0.00                                         | 0.00         | 0.01                 |
| 802.11n_20 | 100.00                               | 0.00                                         | 0.00         | 0.01                 |



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## 10.5.2 輸出功率

| 802.11b Ch0 |             |           |           |                                                        |             |        |
|-------------|-------------|-----------|-----------|--------------------------------------------------------|-------------|--------|
| CH          | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm)                                | Limit (dBm) | RESULT |
| 1           | 2412        | 1         | 23        | 8.11                                                   | 30.00       | PASS   |
| 6           | 2437        | 1         | 26        | <b>9.54</b>                                            | 30.00       | PASS   |
| 11          | 2462        | 1         | 26        | 9.47                                                   | 30.00       | PASS   |
| 802.11b Ch0 |             |           |           |                                                        |             |        |
| CH          | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1           | 2412        | 1         | 23        | 5.40                                                   | 30.00       | PASS   |
| 6           | 2437        | 1         | 26        | <b>6.85</b>                                            | 30.00       | PASS   |
| 11          | 2462        | 1         | 26        | 6.72                                                   | 30.00       | PASS   |
| 802.11g Ch0 |             |           |           |                                                        |             |        |
| CH          | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm)                                | Limit (dBm) | RESULT |
| 1           | 2412        | 6         | 39        | 17.96                                                  | 30.00       | PASS   |
| 6           | 2437        | 6         | 39        | <b>18.19</b>                                           | 30.00       | PASS   |
| 11          | 2462        | 6         | 40        | 17.90                                                  | 30.00       | PASS   |
| 802.11g Ch0 |             |           |           |                                                        |             |        |
| CH          | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1           | 2412        | 6         | 39        | 8.40                                                   | 30.00       | PASS   |
| 6           | 2437        | 6         | 39        | <b>8.67</b>                                            | 30.00       | PASS   |
| 11          | 2462        | 6         | 40        | 8.36                                                   | 30.00       | PASS   |

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| 802.11nHT_20M Ch0 |             |           |           |                                                        |             |        |
|-------------------|-------------|-----------|-----------|--------------------------------------------------------|-------------|--------|
| CH                | Freq. (MHz) | Data Rate | Power set | Peak Output Power (dBm)                                | Limit (dBm) | RESULT |
| 1                 | 2412        | MCS0      | 40        | 17.56                                                  | 30.00       | PASS   |
| 6                 | 2437        | MCS0      | 40        | 17.89                                                  | 30.00       | PASS   |
| 11                | 2462        | MCS0      | 40        | 17.41                                                  | 30.00       | PASS   |
| 802.11nHT_20M Ch0 |             |           |           |                                                        |             |        |
| CH                | Freq. (MHz) | Data Rate | Power set | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1                 | 2412        | MCS0      | 40        | 8.64                                                   | 30.00       | PASS   |
| 6                 | 2437        | MCS0      | 40        | 8.88                                                   | 30.00       | PASS   |
| 11                | 2462        | MCS0      | 40        | 8.41                                                   | 30.00       | PASS   |

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## 11 發射頻寬要求

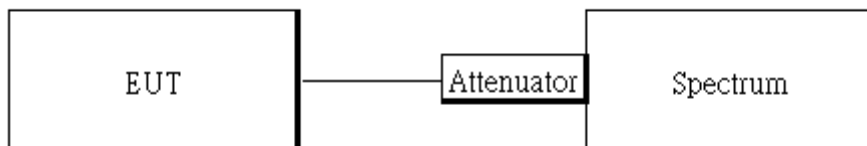
### 11.1 適用標準

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

### 11.2 量測儀器

| Conducted Emission Test Site: Conducted 2 |               |              |               |            |            |
|-------------------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY60242081    | 09/30/2021 | 09/29/2022 |
| Power Meter                               | Anritsu       | ML2496A      | 1804001       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726104       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726107       | 03/02/2021 | 03/01/2022 |
| DC Power Supply                           | Gwinstek      | SPS-3610     | GEV856750     | 08/04/2021 | 08/03/2022 |
| Attenuator                                | Mini-Circuit  | BW-S10W2+    | 2             | 12/16/2020 | 12/15/2021 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/16/2020 | 12/15/2021 |

### 11.3 測試配置



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#### 11.4 量測方法

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as  
RBW= 100kHz ,  
VBW = 3 X RBW,  
Span= 2 to 5 times of the OBW,  
Sweep=auto,  
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Repeat above procedures until all test default channel is completed

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## 11.5 量測結果

## 802.11b Ch0

| Freq.<br>(MHz) | 6dB BW<br>(kHz) | Limit<br>(kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2412           | 9086.00         | $\geq 500$     | PASS   |
| 2437           | <b>9091.00</b>  | $\geq 500$     | PASS   |
| 2462           | 9087.00         | $\geq 500$     | PASS   |

## 802.11g Ch0

| Freq.<br>(MHz) | 6dB BW<br>(kHz) | Limit<br>(kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2412           | <b>16580.00</b> | $\geq 500$     | PASS   |
| 2437           | <b>16580.00</b> | $\geq 500$     | PASS   |
| 2462           | <b>16580.00</b> | $\geq 500$     | PASS   |

## 802.11nHT\_20M Ch0

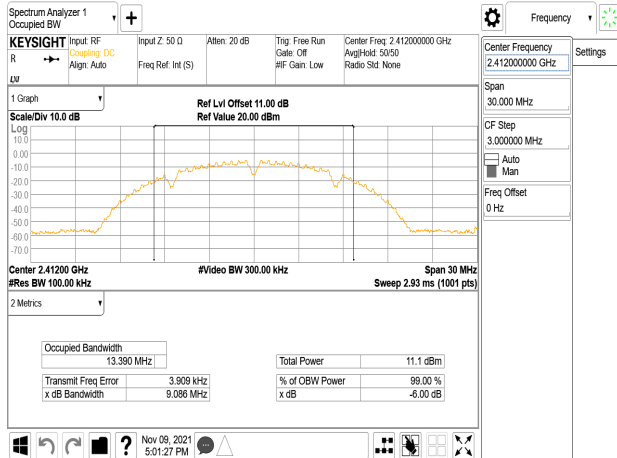
| Freq.<br>(MHz) | 6dB BW<br>(kHz) | Limit<br>(kHz) | Result |
|----------------|-----------------|----------------|--------|
| 2412           | <b>17760.00</b> | $\geq 500$     | PASS   |
| 2437           | 17720.00        | $\geq 500$     | PASS   |
| 2462           | 17730.00        | $\geq 500$     | PASS   |

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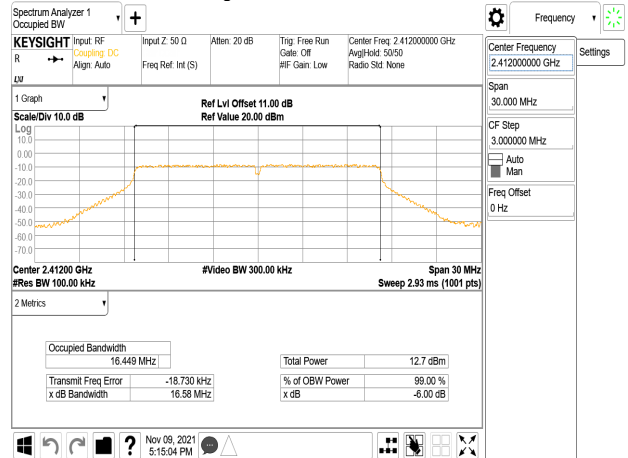
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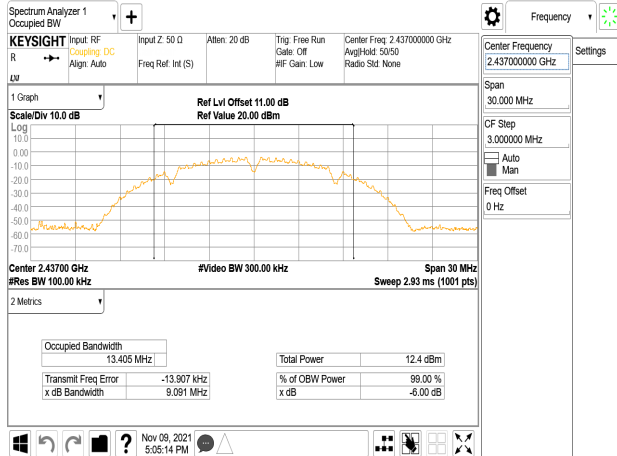
802.11b\_20MHz\_Chain0\_2412MHz



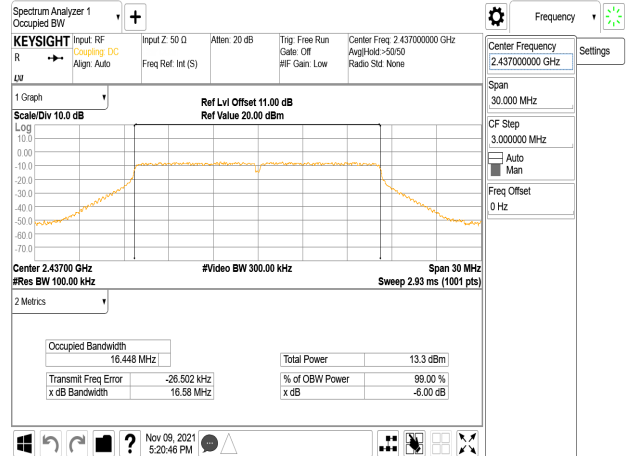
802.11g\_20MHz\_Chain0\_2412MHz



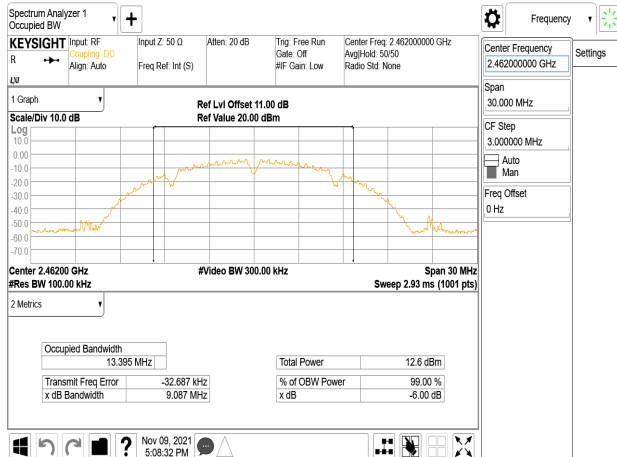
802.11b\_20MHz\_Chain0\_2437MHz



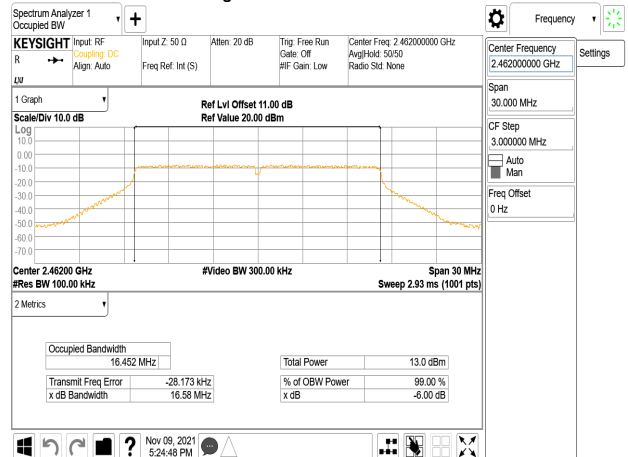
802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

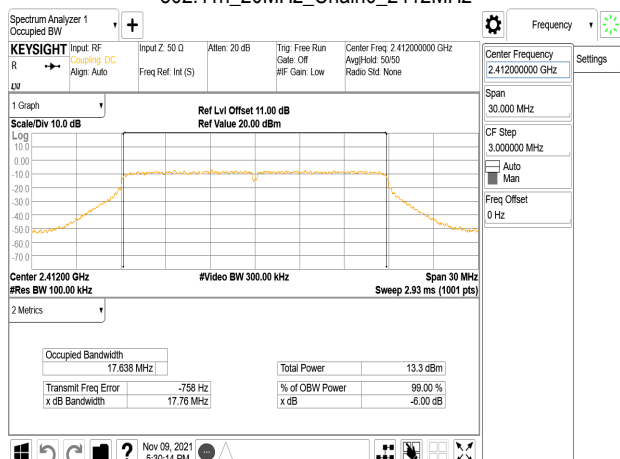


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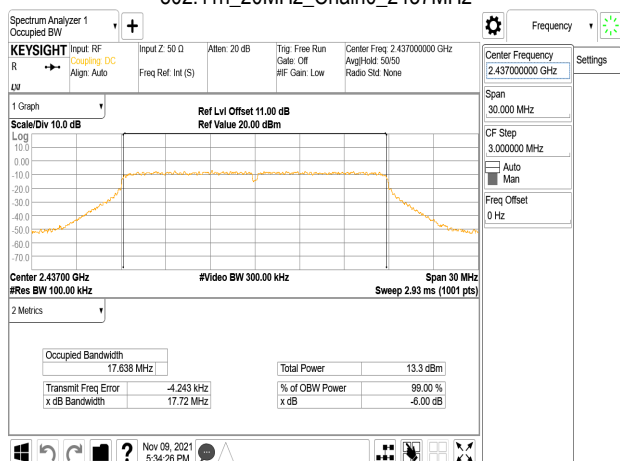
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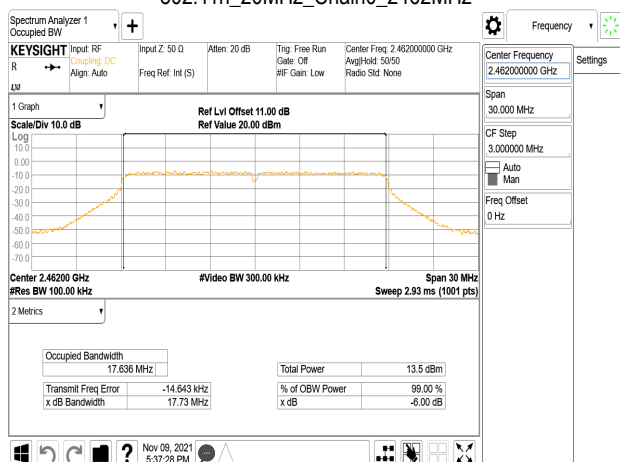
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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## 12 帶外發射限制

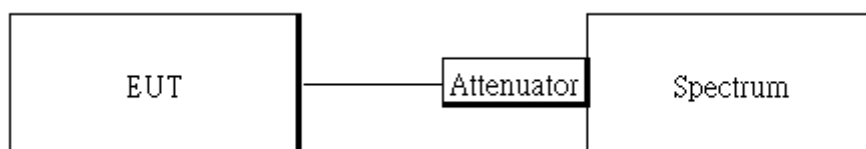
### 12.1 適用標準

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

### 12.2 量測儀器

| Conducted Emission Test Site: Conducted 2 |               |              |               |            |            |
|-------------------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY60242081    | 09/30/2021 | 09/29/2022 |
| Power Meter                               | Anritsu       | ML2496A      | 1804001       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726104       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726107       | 03/02/2021 | 03/01/2022 |
| DC Power Supply                           | Gwinstek      | SPS-3610     | GEV856750     | 08/04/2021 | 08/03/2022 |
| Attenuator                                | Mini-Circuit  | BW-S10W2+    | 2             | 12/16/2020 | 12/15/2021 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/16/2020 | 12/15/2021 |

### 12.3 測試配置



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## 12.4 量測方法

### 12.4.1 Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

### 12.4.2 發射頻帶邊緣量測:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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### 12.4.3 發射頻帶外量測:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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## 12.5 量測結果

### 802.11b Ch0

| Reference Level of Limit |              |                                   |
|--------------------------|--------------|-----------------------------------|
| Freq.<br>(MHz)           | PSD<br>(dBm) | Reference Level of Limit<br>(dBm) |
| 2412                     | -5.33        | -25.33                            |
| 2437                     | -4.05        | -24.05                            |
| 2462                     | -3.77        | -23.77                            |

### 802.11g Ch0

| Reference Level of Limit 802.11g mode |              |                                   |
|---------------------------------------|--------------|-----------------------------------|
| Freq.<br>(MHz)                        | PSD<br>(dBm) | Reference Level of Limit<br>(dBm) |
| 2412                                  | -8.26        | -28.26                            |
| 2437                                  | -7.68        | -27.68                            |
| 2462                                  | -7.59        | -27.59                            |

### 802.11nHT\_20M Ch0

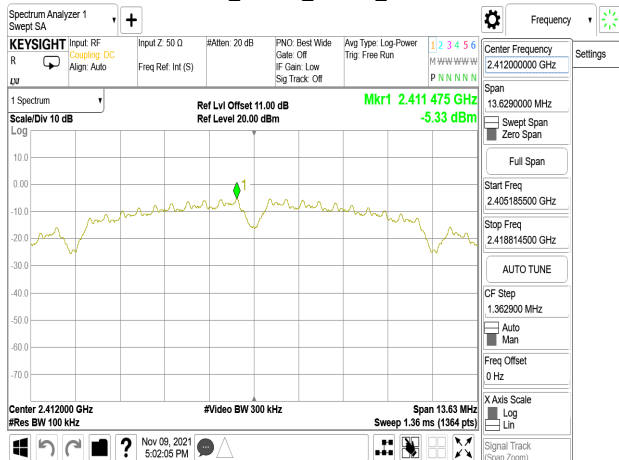
| Reference Level of Limit 802.11n20 MODE |              |                                   |
|-----------------------------------------|--------------|-----------------------------------|
| Freq.<br>(MHz)                          | PSD<br>(dBm) | Reference Level of Limit<br>(dBm) |
| 2412                                    | -7.30        | -27.30                            |
| 2437                                    | -7.09        | -27.09                            |
| 2462                                    | -7.02        | -27.02                            |

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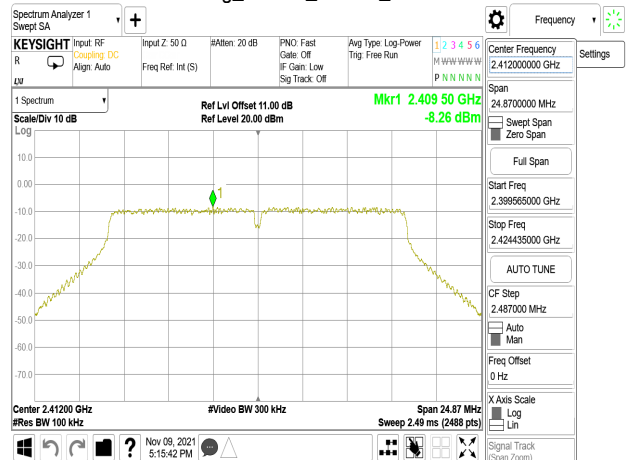
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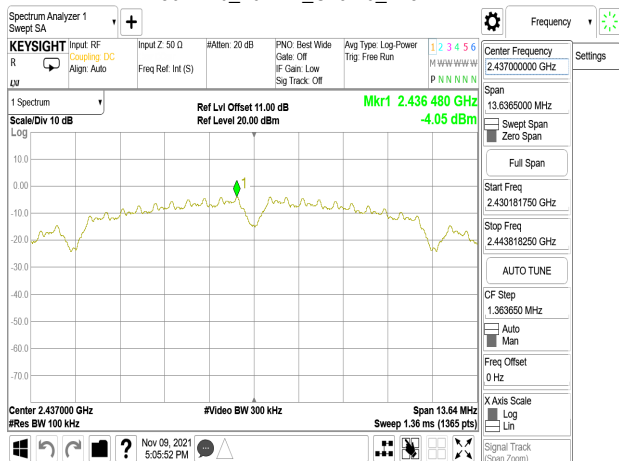
802.11b\_20MHz\_Chain0\_2412MHz



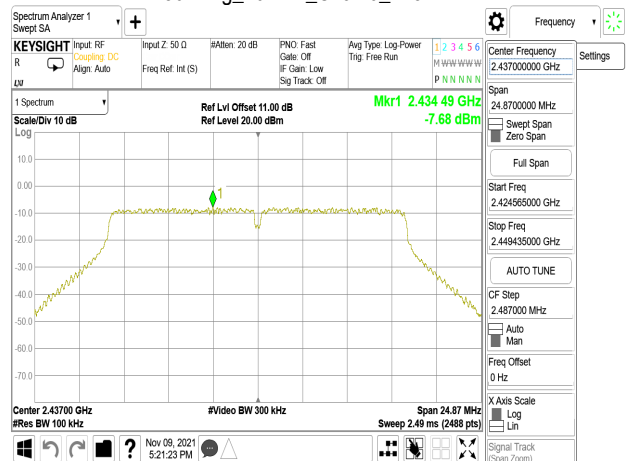
802.11g\_20MHz\_Chain0\_2412MHz



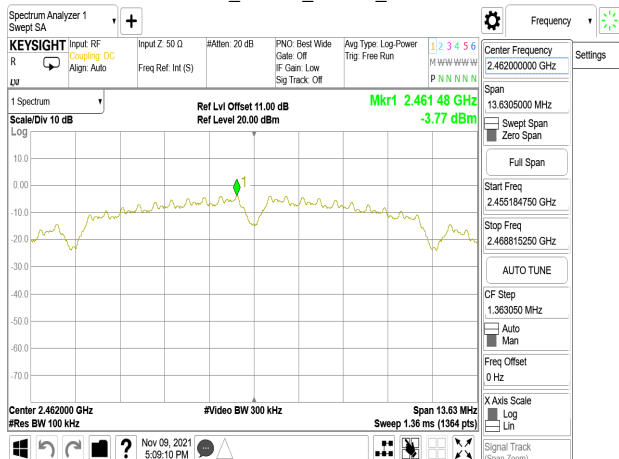
802.11b\_20MHz\_Chain0\_2437MHz



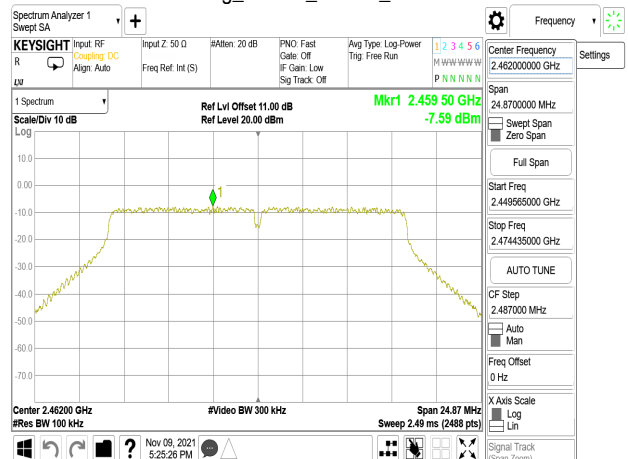
802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

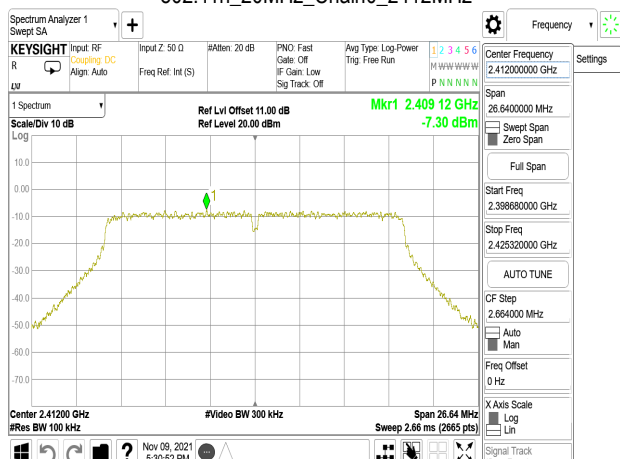


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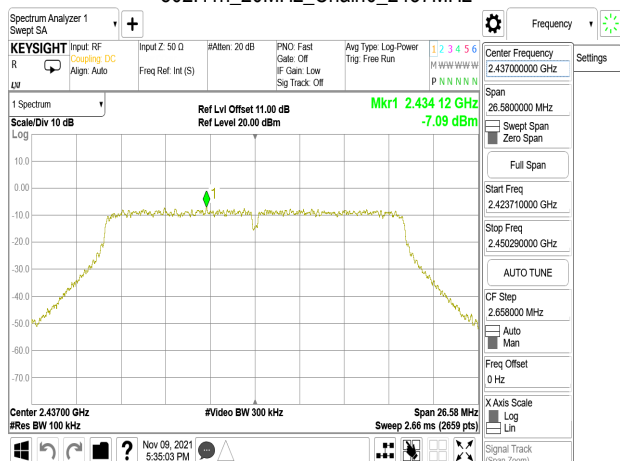
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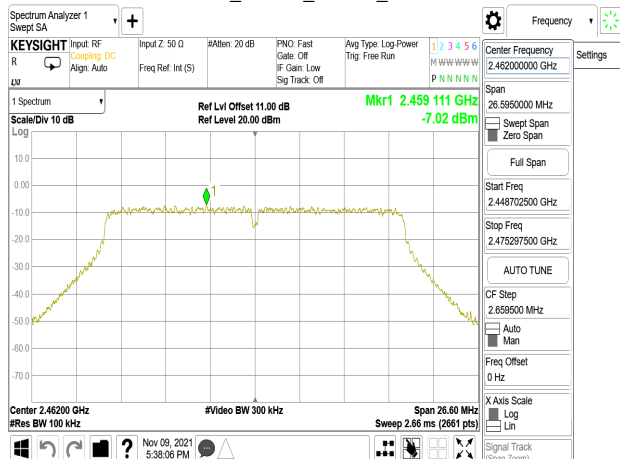
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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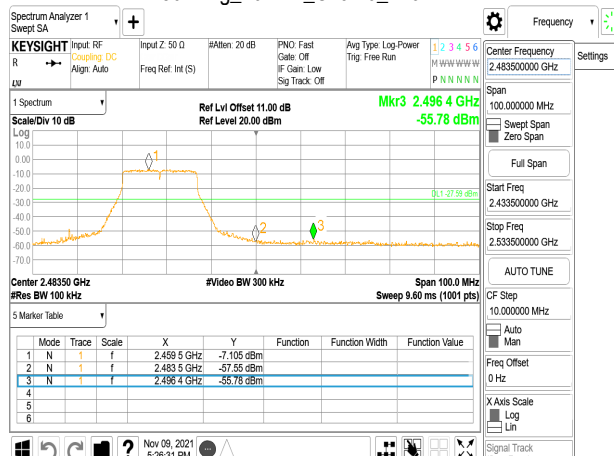
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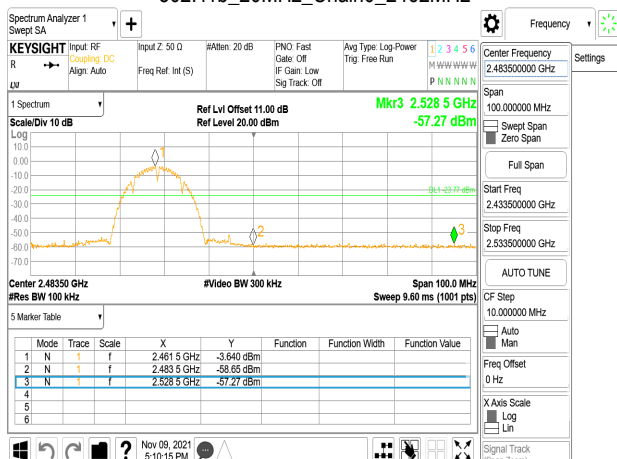
802.11b\_20MHz\_Chain0\_2412MHz



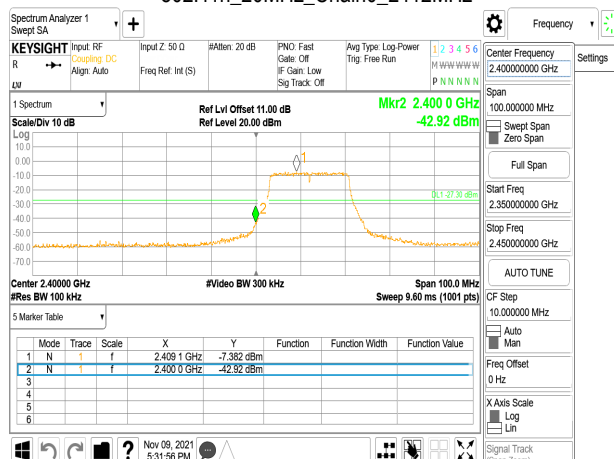
802.11g\_20MHz\_Chain0\_2462MHz



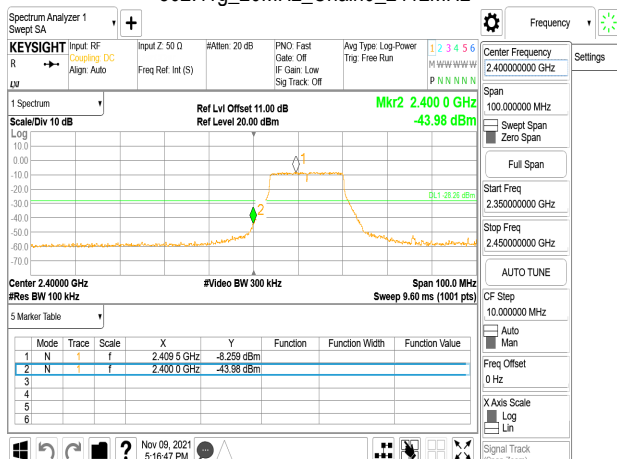
802.11b\_20MHz\_Chain0\_2462MHz



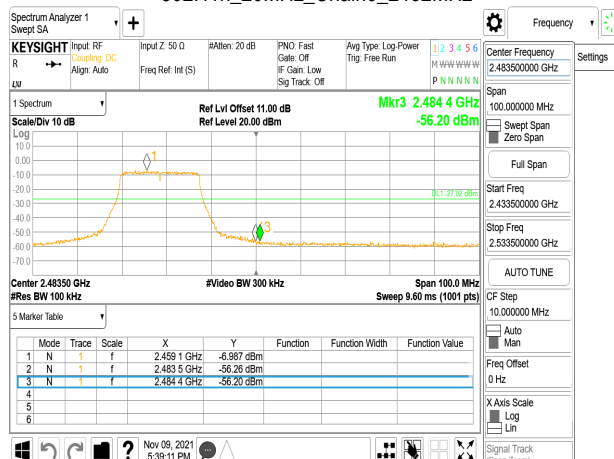
802.11n\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2462MHz

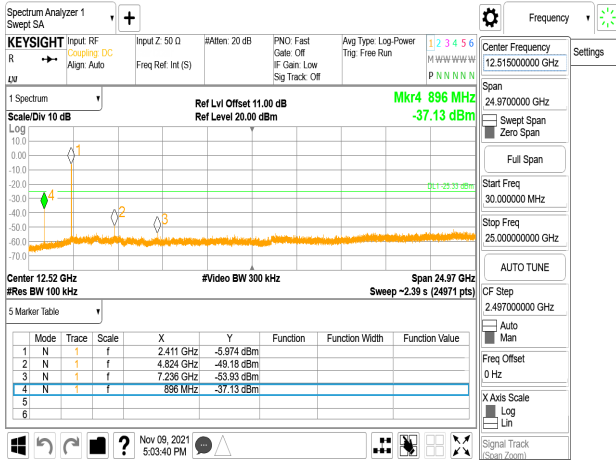


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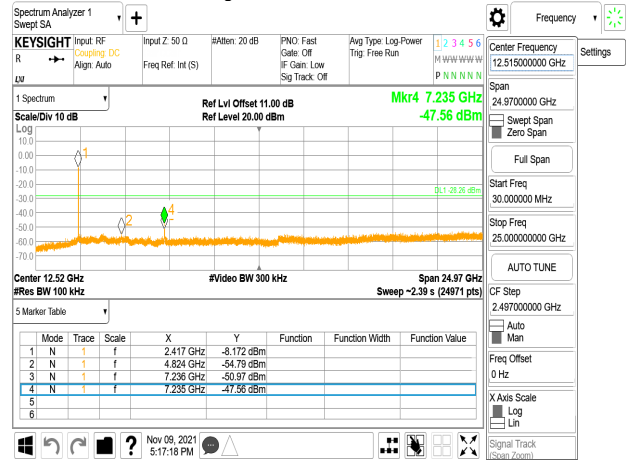
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802.11b\_20MHz\_Chain0\_2412MHz



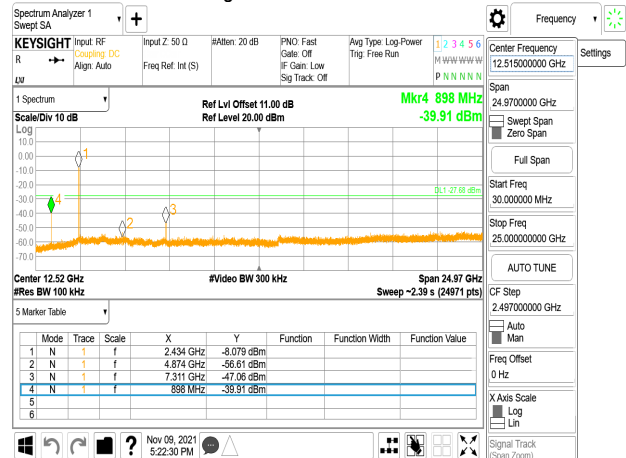
802.11g\_20MHz\_Chain0\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

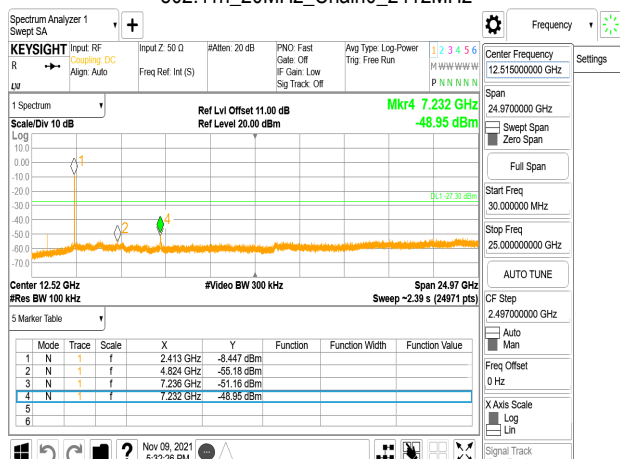


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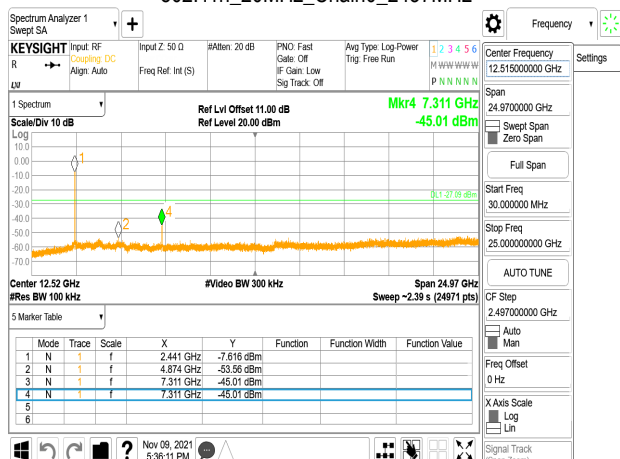
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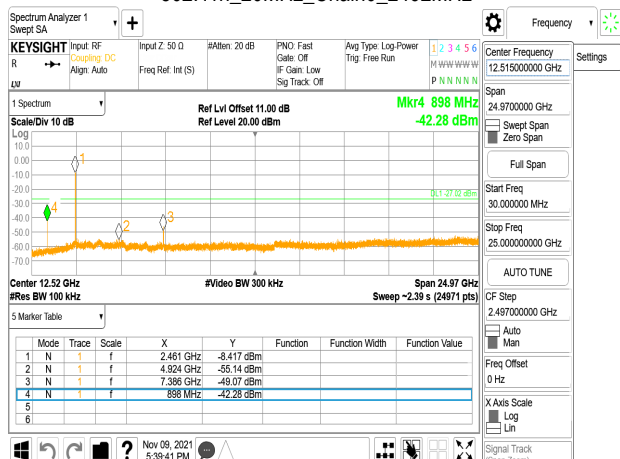
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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## 13 場強輻射量測

### 13.1 適用標準

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

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

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### 13.2 量測儀器

| Radiated Emission Test Site: SAC 1 |              |                    |                  |            |            |
|------------------------------------|--------------|--------------------|------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR          | MODEL NUMBER       | SERIAL NUMBER    | LAST CAL.  | CAL DUE.   |
| Site Cal                           | SGS          | SAC I chamber      | N/A              | 01/01/2021 | 12/31/2021 |
| Horn Antenna                       | SCHWARZBECK  | BBHA9120D          | D803             | 12/17/2020 | 12/16/2021 |
| Bi-log Antenna                     | TESEO        | CBL 6112D          | 35242 & AT-N0555 | 01/13/2021 | 01/12/2022 |
| Loop Antenna                       | ETS.LINDGREN | 6502               | 148045           | 09/29/2021 | 09/28/2022 |
| Spectrum Analyzer                  | Agilent      | E4446A             | MY51100003       | 10/26/2020 | 10/25/2022 |
| DC Power Supply                    | Gwinstek     | SPS-3610           | GEV856750        | 08/04/2021 | 08/03/2022 |
| EMI Test Receiver                  | R&S          | ESCI 7             | 100759           | 08/26/2021 | 08/25/2022 |
| Pre-Amplifier                      | HP           | 8449B              | 3008A01973       | 12/16/2020 | 12/15/2021 |
| Pre-Amplifier                      | HP           | 8447D              | 2944A09469       | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner | succoflex 102      | MY2622/2         | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner | succoflex 104A     | 800086/4a        | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner | EMC 104-SM-SM-2000 | 160123           | 12/16/2020 | 12/15/2021 |
| Bandreject Filter 2400-2483.5      | EWT          | EWT-14-0166        | M1               | 12/16/2020 | 12/15/2021 |
| 3.2GHz High Pass Filter            | WI           | WHKX10-2624-80SS   | 4                | 04/20/2021 | 04/19/2022 |

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### 13.3 量測方法

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

以下為頻譜儀的設定：

| 頻率                                                           | RBW    | VBW    | Detector   |
|--------------------------------------------------------------|--------|--------|------------|
| 9kHz~150kHz                                                  | 300Hz  | 300Hz  | Quasi-Peak |
| 150kHz~30MHz                                                 | 10kHz  | 10kHz  | Quasi-Peak |
| 30MHz~1GHz                                                   | 100kHz | 300kHz | Peak       |
| 30MHz~1GHz                                                   | 120kHz | 360kHz | Quasi-Peak |
| 1GHz以上 Maximum Emission Measurement                          | 1MHz   | 3MHz   | Peak       |
| 1GHz以上 Duty Cycle $\geq$ 98%<br>Average Emission Measurement | 1MHz   | 10Hz   | Peak       |
| 1GHz以上 Duty Cycle < 98%<br>Average Emission Measurement      | 1MHz   | 1/T    | Peak       |

### 13.4 場強計算

- Distance extrapolation = 40 \*log (Required Distance(m) / Test Distance(m) )
- Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)  
Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

註：

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

比較 H Plane、E1 Plane 和 E2 Plane 測試值後，附上最差模式數據。

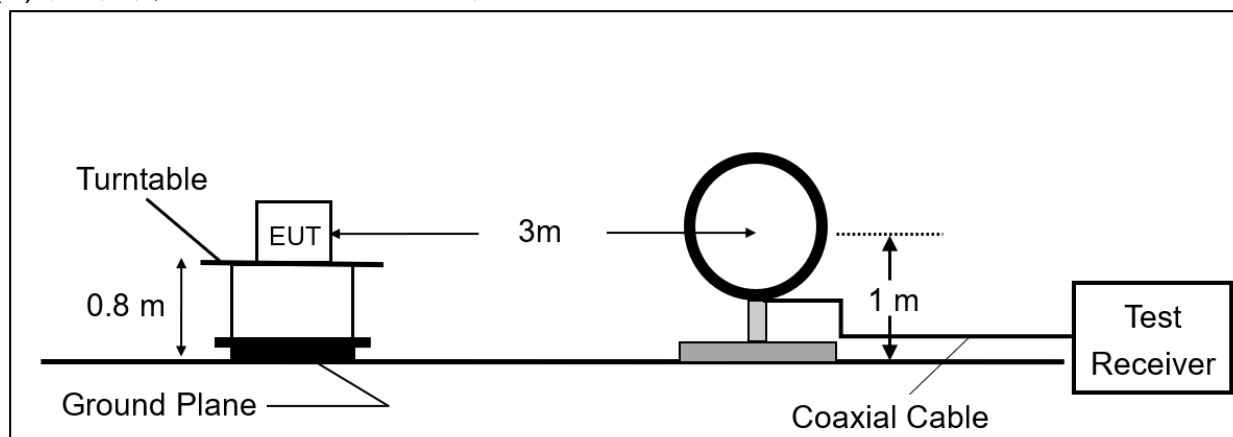
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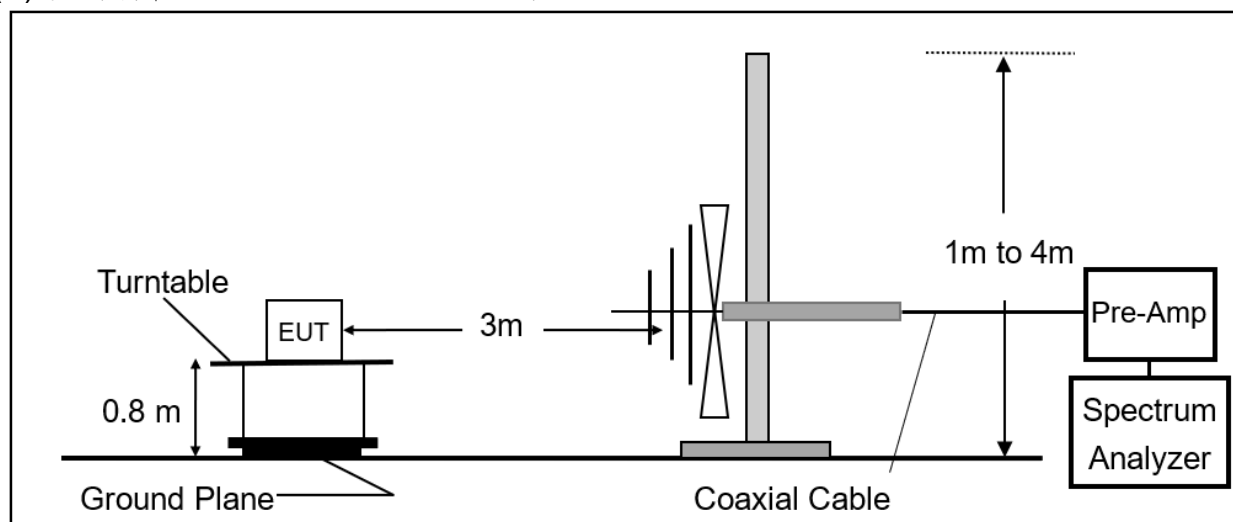
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## 13.5 測試配置

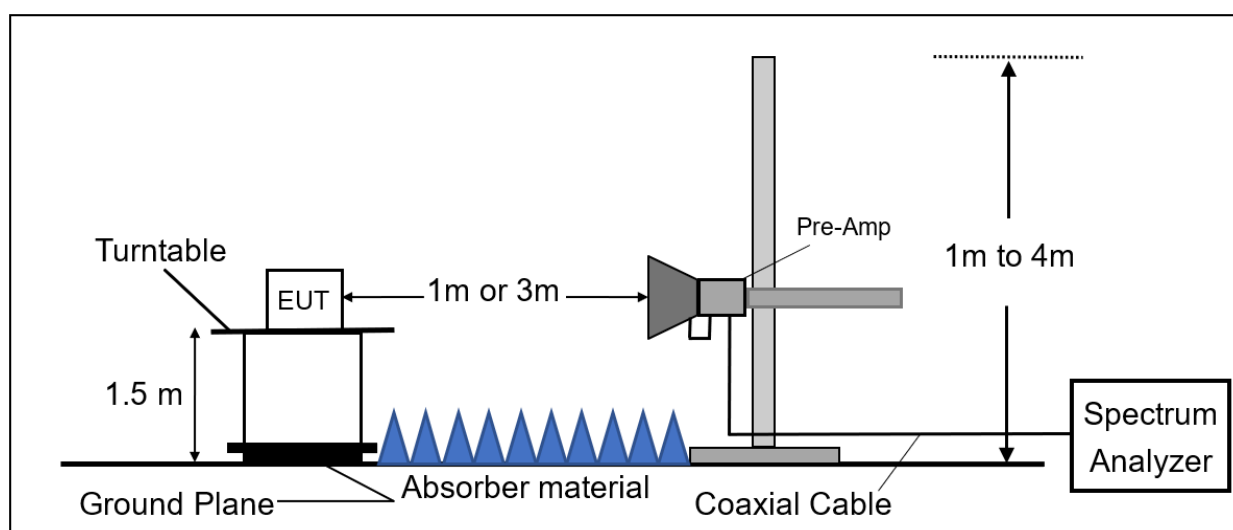
### (A) 量測頻率低於 30MHz 以下之測試配置



### (B) 量測頻率 30MHz 至 1000MHz 之測試配置



### (C) 量測頻率 1000MHz 以上之測試配置



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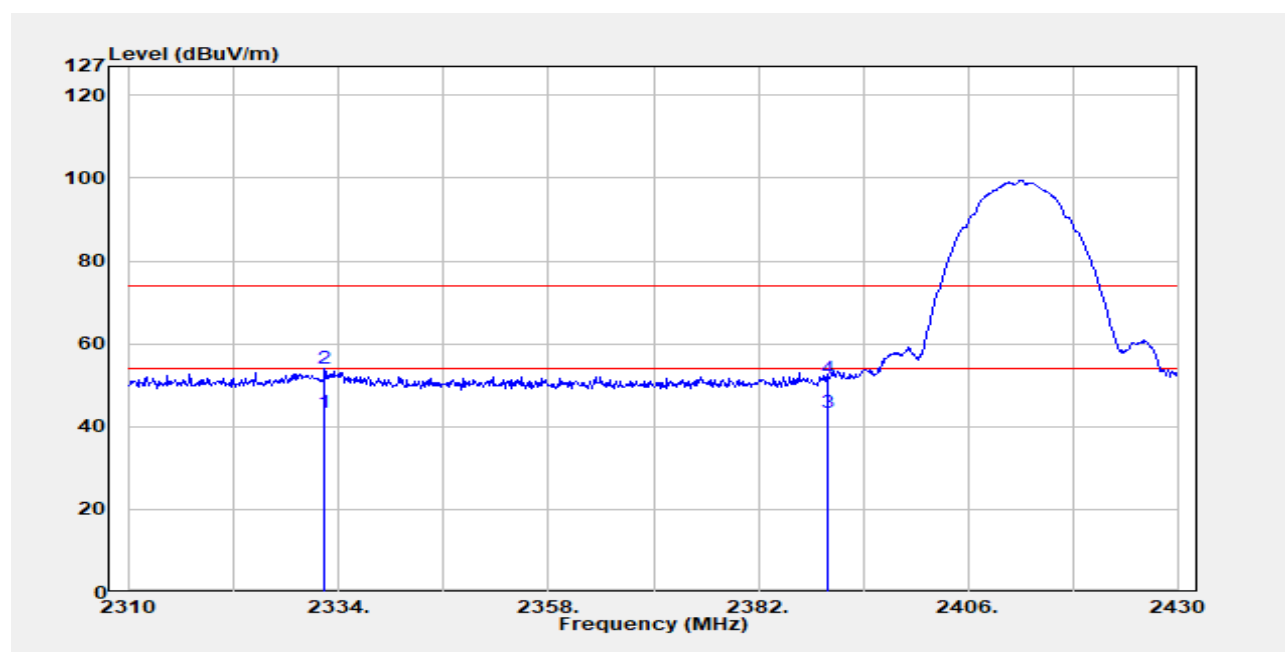
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## 13.6 量測結果

## 13.6.1 禁用頻帶輻射

|                |                  |              |             |
|----------------|------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061   | Test Site    | :SAC 1      |
| Operation Mode | :802.11b         | Test Date    | :2021-11-02 |
| Test Frequency | :2412 MHz        | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane         | Engineer     | :Neo Tsai   |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|----------------------------------------|--------------|-----------------------------|-----------------------------|--------------|
| 2332.32      | Average                      | 43.31                                  | 0.01         | 43.32                       | 54.00                       | -10.68       |
| 2332.32      | Peak                         | 53.87                                  | 0.01         | 53.88                       | 74.00                       | -20.12       |
| 2390.00      | Average                      | 43.56                                  | -0.12        | 43.44                       | 54.00                       | -10.56       |
| 2390.00      | Peak                         | 51.75                                  | -0.12        | 51.63                       | 74.00                       | -22.37       |

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Report Number :ER/2021/A0061

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

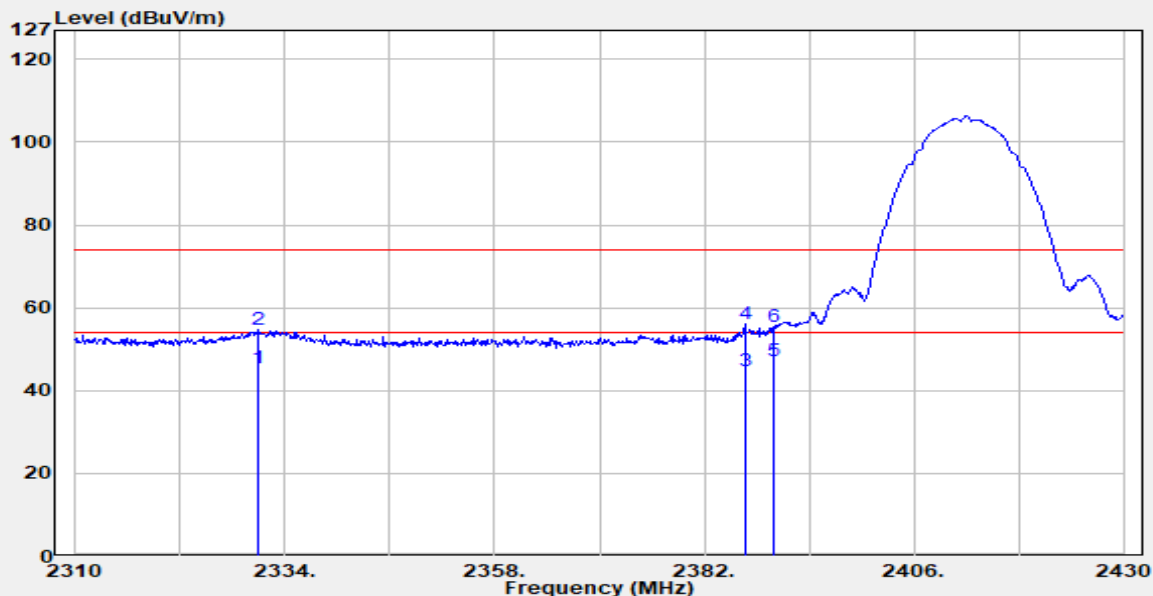
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2330.88      | Average                      | 45.38                             | 0.01         | 45.39                  | 54.00                  | -8.61        |
| 2330.88      | Peak                         | 54.64                             | 0.01         | 54.65                  | 74.00                  | -19.35       |
| 2386.68      | Average                      | 45.01                             | -0.11        | 44.90                  | 54.00                  | -9.10        |
| 2386.68      | Peak                         | 56.16                             | -0.11        | 56.06                  | 74.00                  | -17.94       |
| 2390.00      | Average                      | 47.34                             | -0.12        | 47.22                  | 54.00                  | -6.78        |
| 2390.00      | Peak                         | 55.62                             | -0.12        | 55.50                  | 74.00                  | -18.50       |

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Report Number :ER/2021/A0061

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

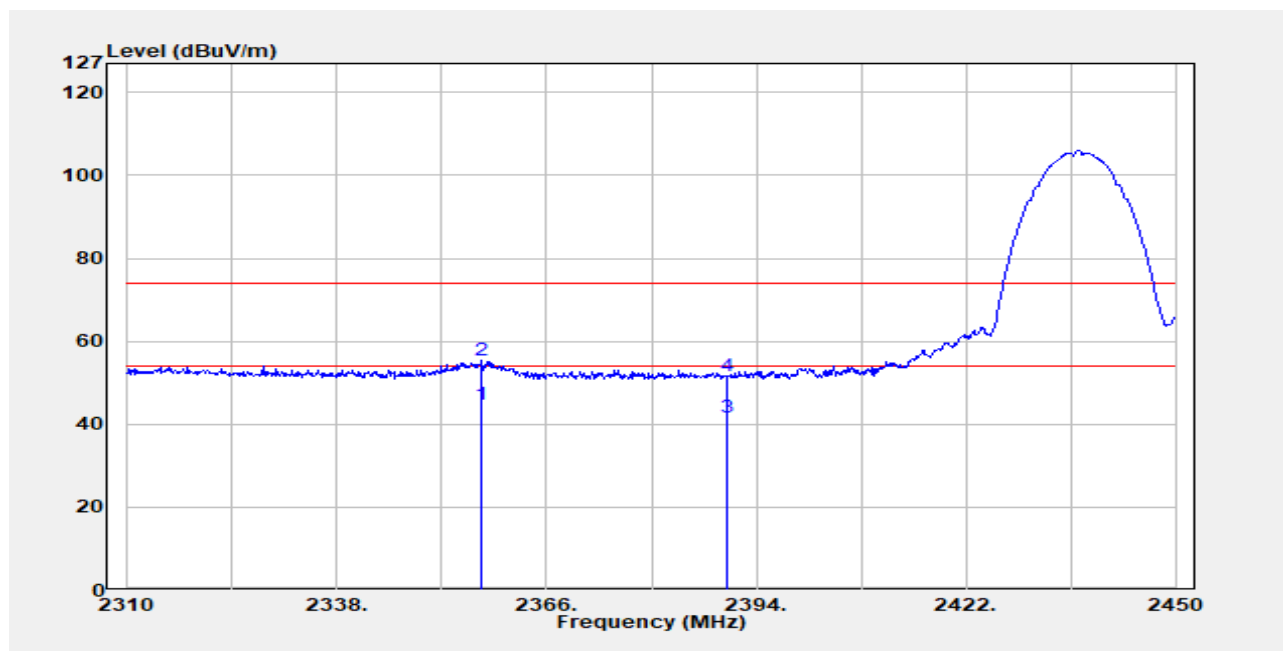
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2357.32      | Average                      | 44.87                             | 0.00         | 44.86                  | 54.00                  | -9.14        |
| 2357.32      | Peak                         | 55.46                             | 0.00         | 55.46                  | 74.00                  | -18.54       |
| 2390.00      | Average                      | 41.85                             | -0.12        | 41.73                  | 54.00                  | -12.27       |
| 2390.00      | Peak                         | 51.79                             | -0.12        | 51.67                  | 74.00                  | -22.33       |

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Report Number :ER/2021/A0061

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

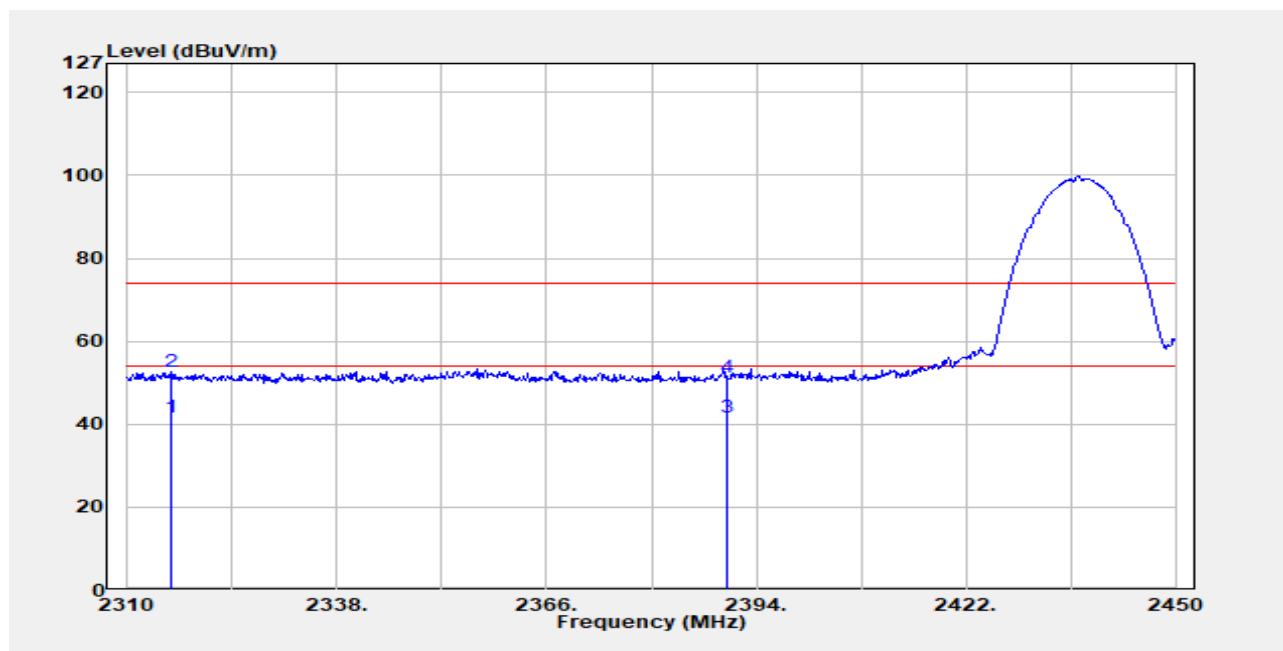
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2315.74      | Average                      | 41.64                             | 0.00         | 41.65                  | 54.00                  | -12.35       |
| 2315.74      | Peak                         | 52.54                             | 0.00         | 52.55                  | 74.00                  | -21.45       |
| 2390.00      | Average                      | 41.88                             | -0.12        | 41.76                  | 54.00                  | -12.24       |
| 2390.00      | Peak                         | 51.28                             | -0.12        | 51.16                  | 74.00                  | -22.84       |

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Report Number :ER/2021/A0061

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

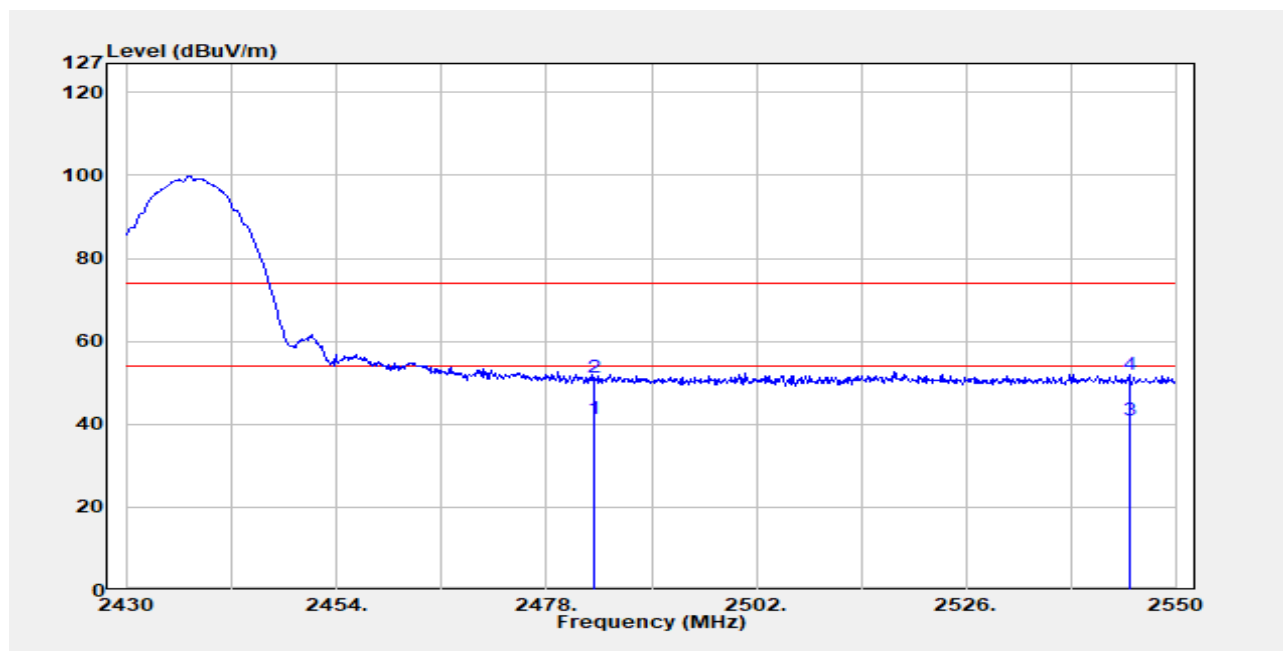
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 41.55                             | -0.16        | 41.39                  | 54.00                  | -12.61       |
| 2483.50      | Peak                         | 51.41                             | -0.16        | 51.25                  | 74.00                  | -22.75       |
| 2544.72      | Average                      | 41.07                             | -0.08        | 40.99                  | 54.00                  | -13.01       |
| 2544.72      | Peak                         | 52.18                             | -0.08        | 52.10                  | 74.00                  | -21.90       |

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Report Number :ER/2021/A0061

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

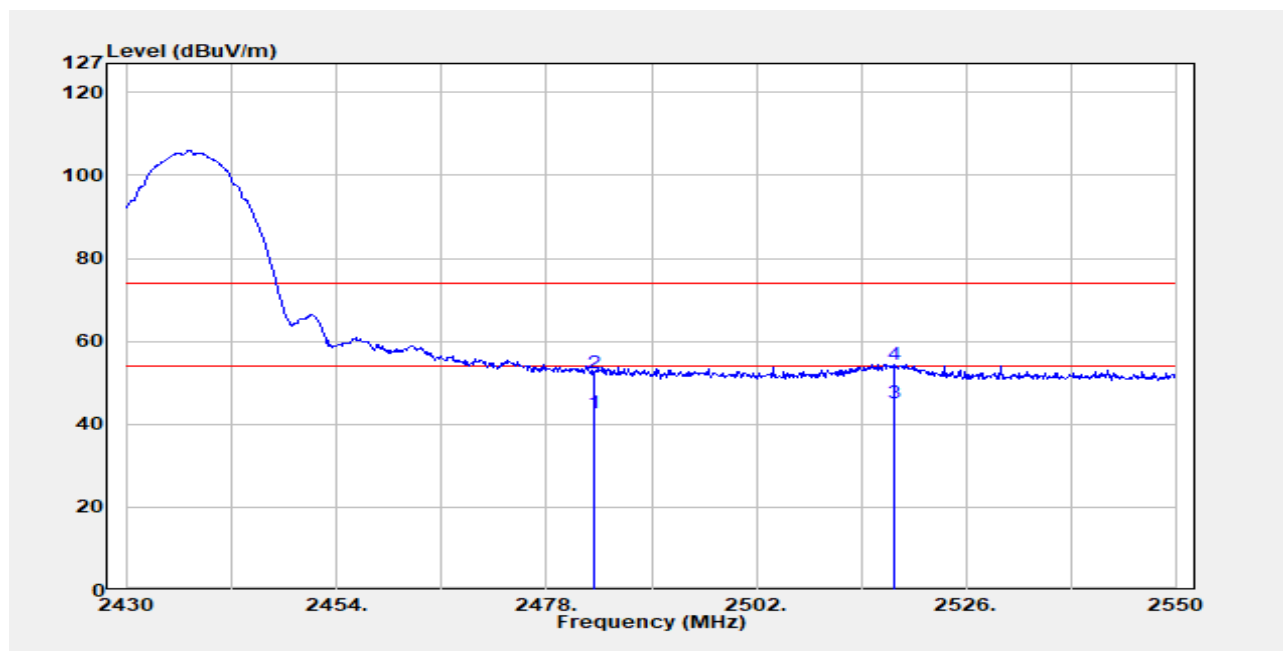
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



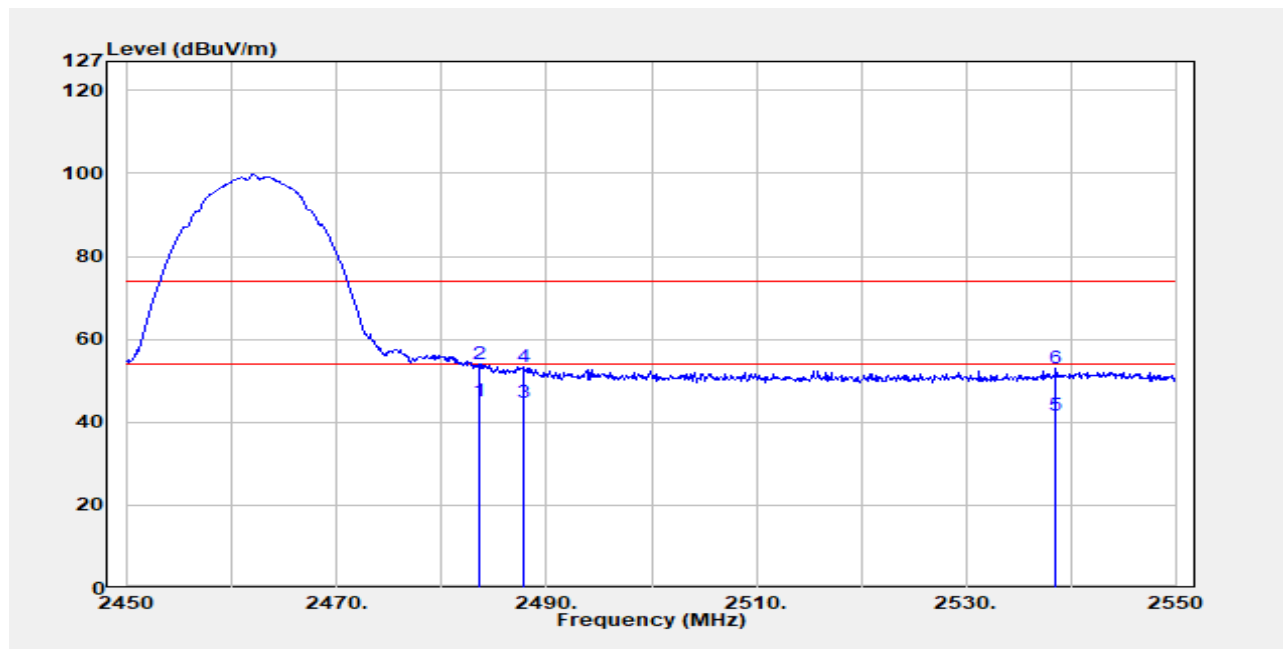
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 42.70                             | -0.16        | 42.54                  | 54.00                  | -11.46       |
| 2483.50      | Peak                         | 52.43                             | -0.16        | 52.27                  | 74.00                  | -21.73       |
| 2517.72      | Average                      | 45.22                             | -0.12        | 45.10                  | 54.00                  | -8.90        |
| 2517.72      | Peak                         | 54.55                             | -0.12        | 54.44                  | 74.00                  | -19.56       |

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|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061    | Test Site    | :SAC 1      |
| Operation Mode | :802.11b          | Test Date    | :2021-11-02 |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane          | Engineer     | :Neo Tsai   |



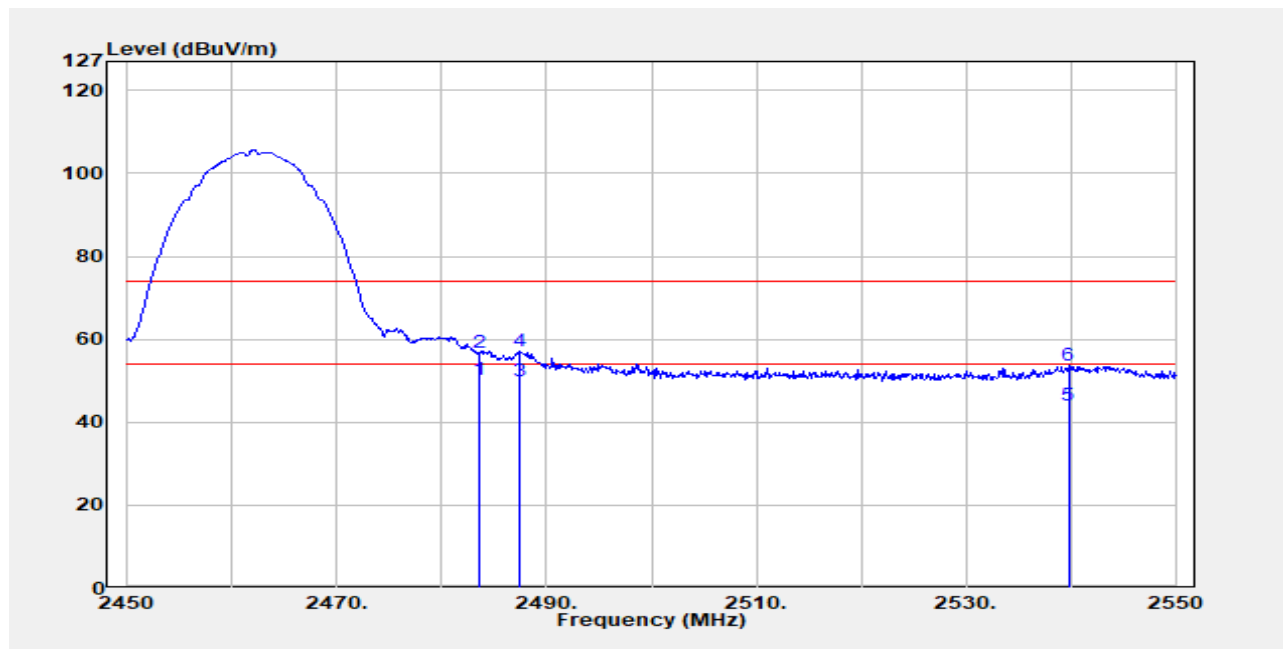
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 45.39                             | -0.16        | 45.23                  | 54.00                  | -8.77        |
| 2483.50      | Peak                         | 54.05                             | -0.16        | 53.89                  | 74.00                  | -20.11       |
| 2487.80      | Average                      | 44.85                             | -0.16        | 44.69                  | 54.00                  | -9.31        |
| 2487.80      | Peak                         | 53.57                             | -0.16        | 53.42                  | 74.00                  | -20.58       |
| 2538.60      | Average                      | 41.73                             | -0.08        | 41.64                  | 54.00                  | -12.36       |
| 2538.60      | Peak                         | 52.95                             | -0.08        | 52.86                  | 74.00                  | -21.14       |

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|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061    | Test Site    | :SAC 1      |
| Operation Mode | :802.11b          | Test Date    | :2021-11-02 |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane          | Engineer     | :Neo Tsai   |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 50.57                             | -0.16        | 50.41                  | 54.00                  | -3.59        |
| 2483.50      | Peak                         | 56.85                             | -0.16        | 56.69                  | 74.00                  | -17.31       |
| 2487.40      | Average                      | 50.17                             | -0.16        | 50.01                  | 54.00                  | -3.99        |
| 2487.40      | Peak                         | 57.20                             | -0.16        | 57.04                  | 74.00                  | -16.96       |
| 2539.80      | Average                      | 44.15                             | -0.08        | 44.07                  | 54.00                  | -9.93        |
| 2539.80      | Peak                         | 53.61                             | -0.08        | 53.52                  | 74.00                  | -20.48       |

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Report Number :ER/2021/A0061

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

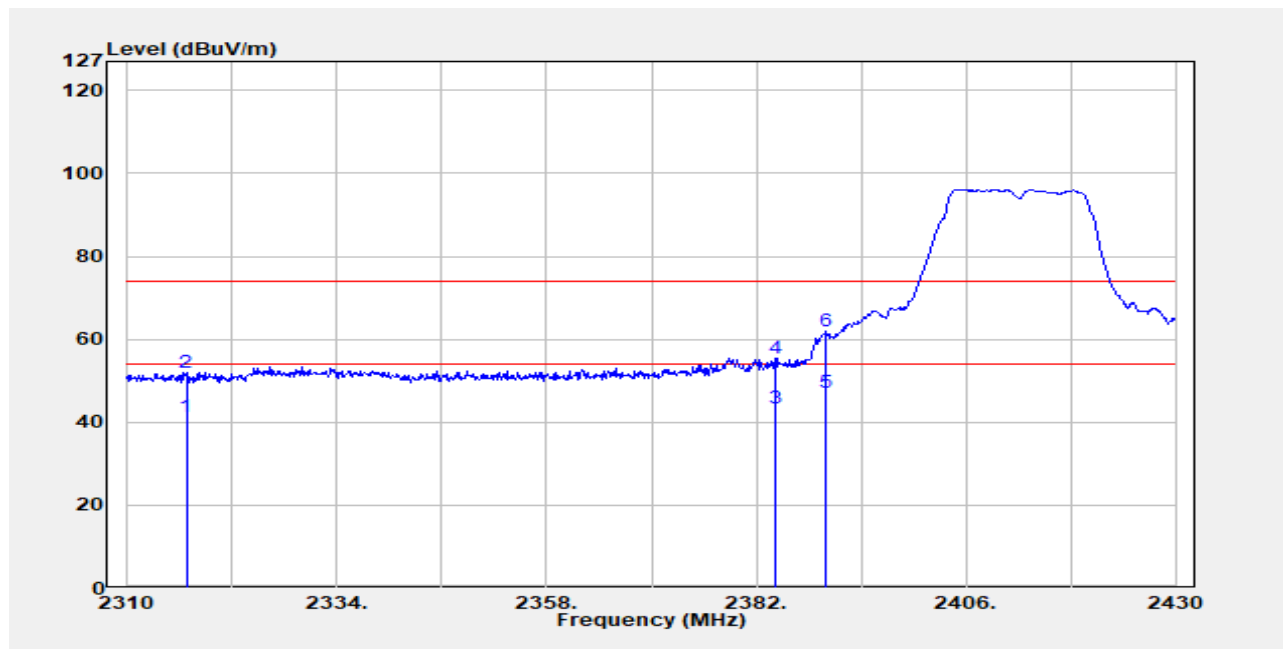
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2316.72      | Average                      | 41.37                             | 0.00         | 41.38                  | 54.00                  | -12.62       |
| 2316.72      | Peak                         | 52.02                             | 0.00         | 52.02                  | 74.00                  | -21.98       |
| 2384.28      | Average                      | 43.30                             | -0.10        | 43.20                  | 54.00                  | -10.80       |
| 2384.28      | Peak                         | 55.49                             | -0.10        | 55.39                  | 74.00                  | -18.61       |
| 2390.00      | Average                      | 47.44                             | -0.12        | 47.32                  | 54.00                  | -6.68        |
| 2390.00      | Peak                         | 62.07                             | -0.12        | 61.95                  | 74.00                  | -12.05       |

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Report Number :ER/2021/A0061

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :Bandedge CH Low

EUT Pol :H Plane

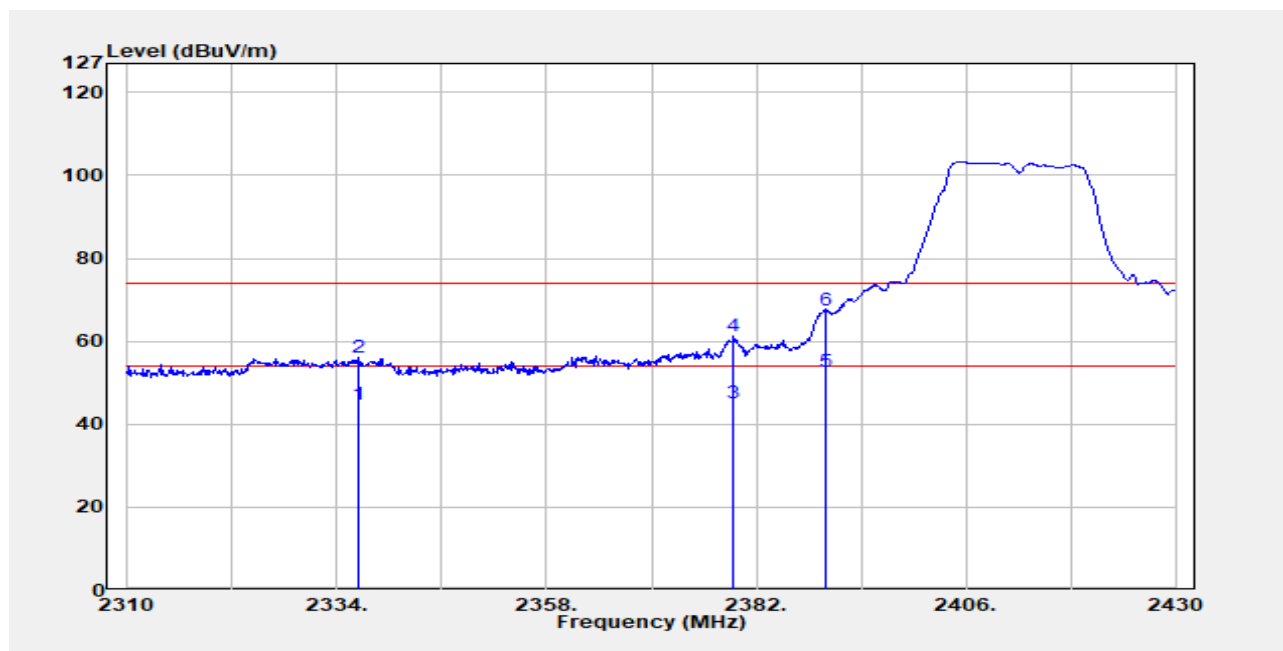
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2336.40      | Average                      | 44.70                             | 0.01         | 44.71                  | 54.00                  | -9.29        |
| 2336.40      | Peak                         | 55.96                             | 0.01         | 55.98                  | 74.00                  | -18.02       |
| 2379.36      | Average                      | 45.15                             | -0.08        | 45.07                  | 54.00                  | -8.93        |
| 2379.36      | Peak                         | 61.32                             | -0.08        | 61.23                  | 74.00                  | -12.77       |
| 2390.00      | Average                      | 52.70                             | -0.12        | 52.58                  | 54.00                  | -1.42        |
| 2390.00      | Peak                         | 67.48                             | -0.12        | 67.36                  | 74.00                  | -6.64        |

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Report Number :ER/2021/A0061

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

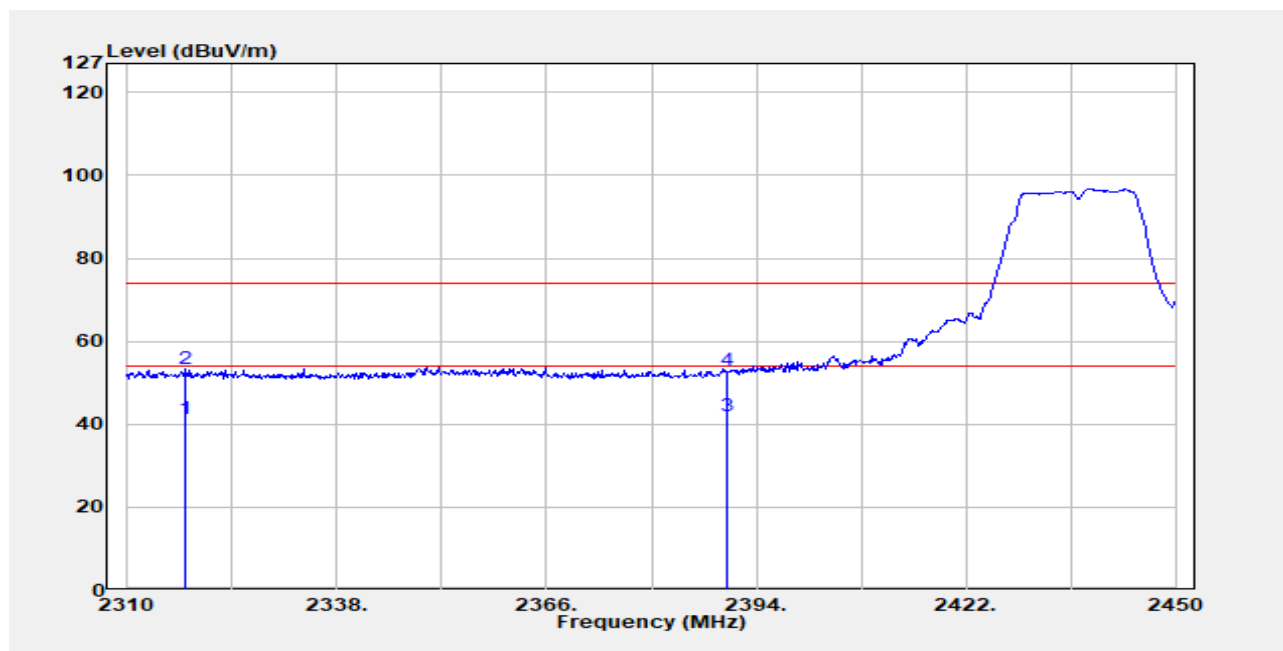
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2317.70      | Average                      | 41.44                             | 0.00         | 41.44                  | 54.00                  | -12.56       |
| 2317.70      | Peak                         | 53.41                             | 0.00         | 53.41                  | 74.00                  | -20.59       |
| 2390.00      | Average                      | 42.08                             | -0.12        | 41.96                  | 54.00                  | -12.04       |
| 2390.00      | Peak                         | 53.03                             | -0.12        | 52.91                  | 74.00                  | -21.09       |

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Report Number :ER/2021/A0061

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

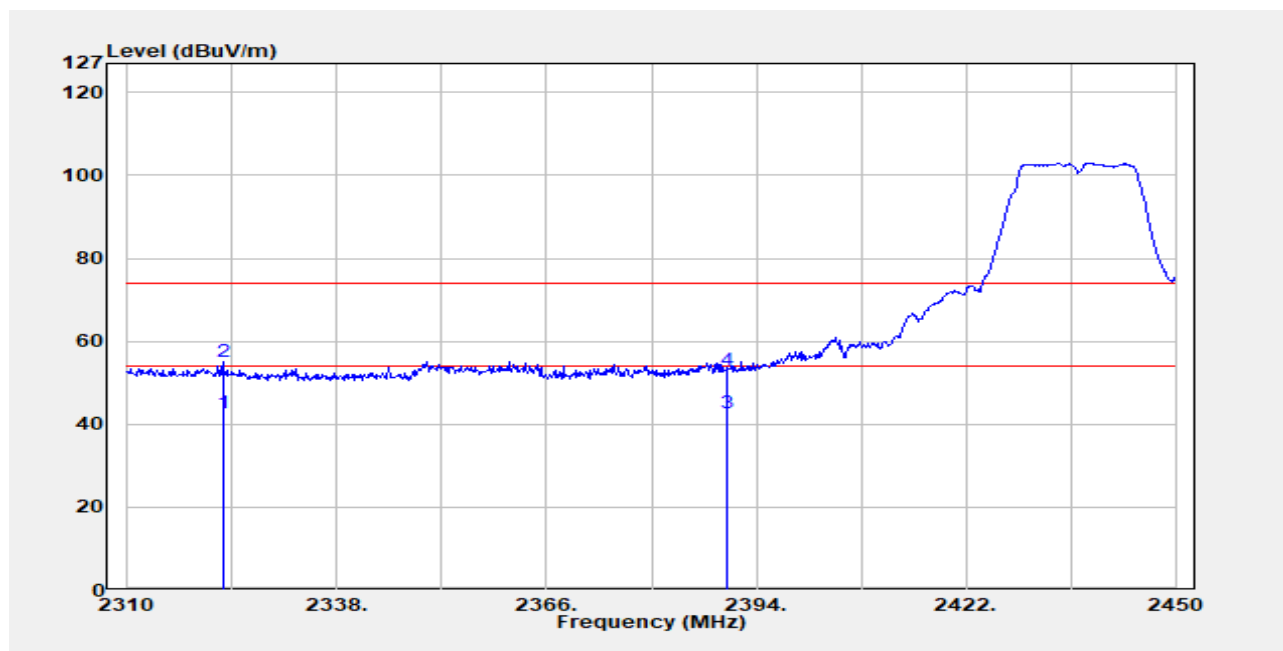
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2322.74      | Average                      | 42.51                             | 0.01         | 42.51                  | 54.00                  | -11.49       |
| 2322.74      | Peak                         | 54.96                             | 0.01         | 54.97                  | 74.00                  | -19.03       |
| 2390.00      | Average                      | 42.87                             | -0.12        | 42.75                  | 54.00                  | -11.25       |
| 2390.00      | Peak                         | 53.01                             | -0.12        | 52.89                  | 74.00                  | -21.11       |

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Report Number :ER/2021/A0061

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

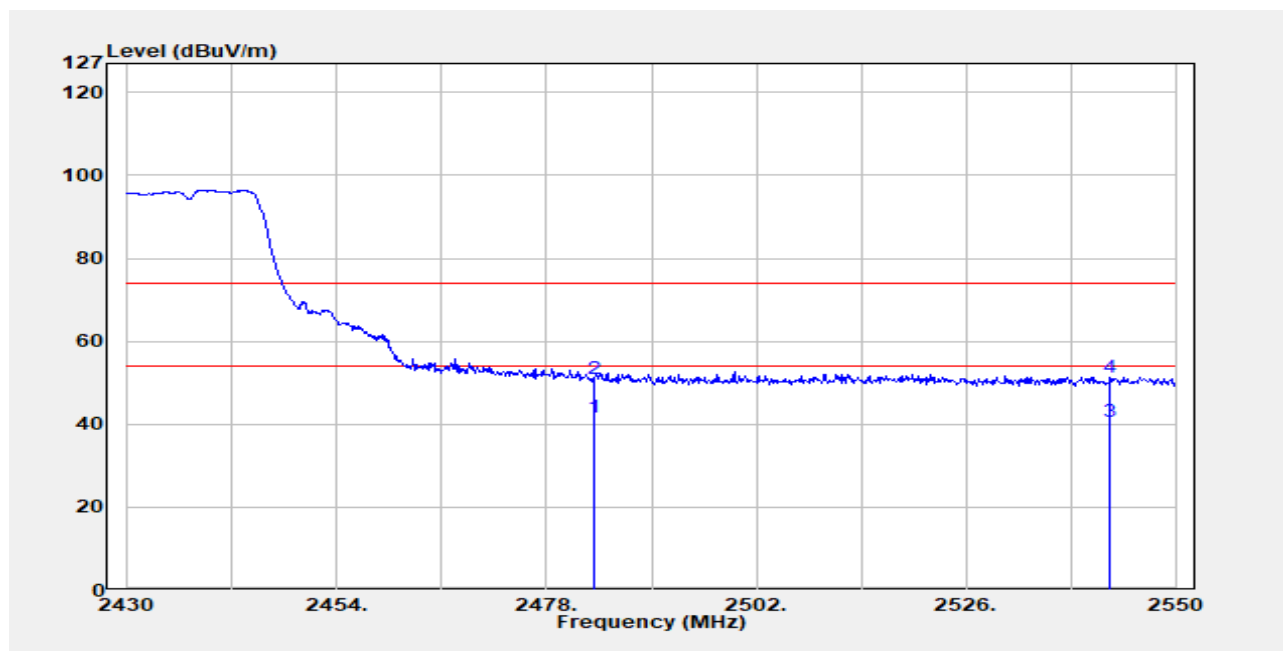
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 41.69                             | -0.16        | 41.53                  | 54.00                  | -12.47       |
| 2483.50      | Peak                         | 50.93                             | -0.16        | 50.77                  | 74.00                  | -23.23       |
| 2542.56      | Average                      | 40.81                             | -0.08        | 40.73                  | 54.00                  | -13.27       |
| 2542.56      | Peak                         | 51.50                             | -0.08        | 51.43                  | 74.00                  | -22.58       |

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Report Number :ER/2021/A0061

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

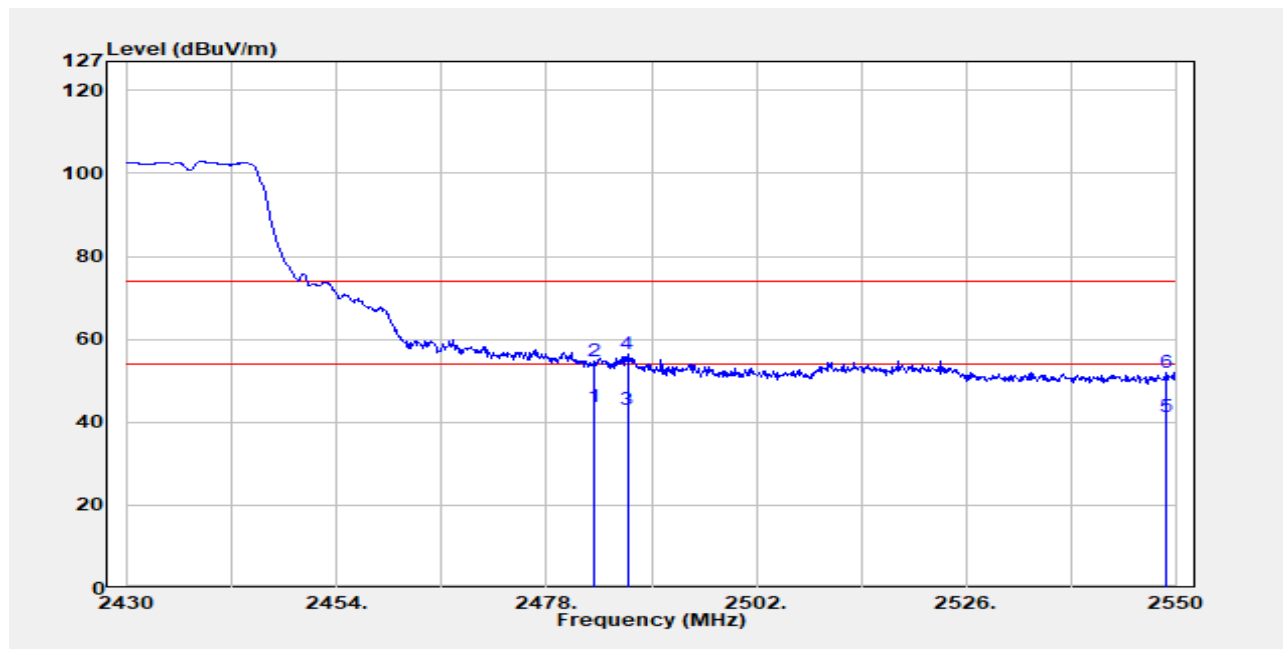
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



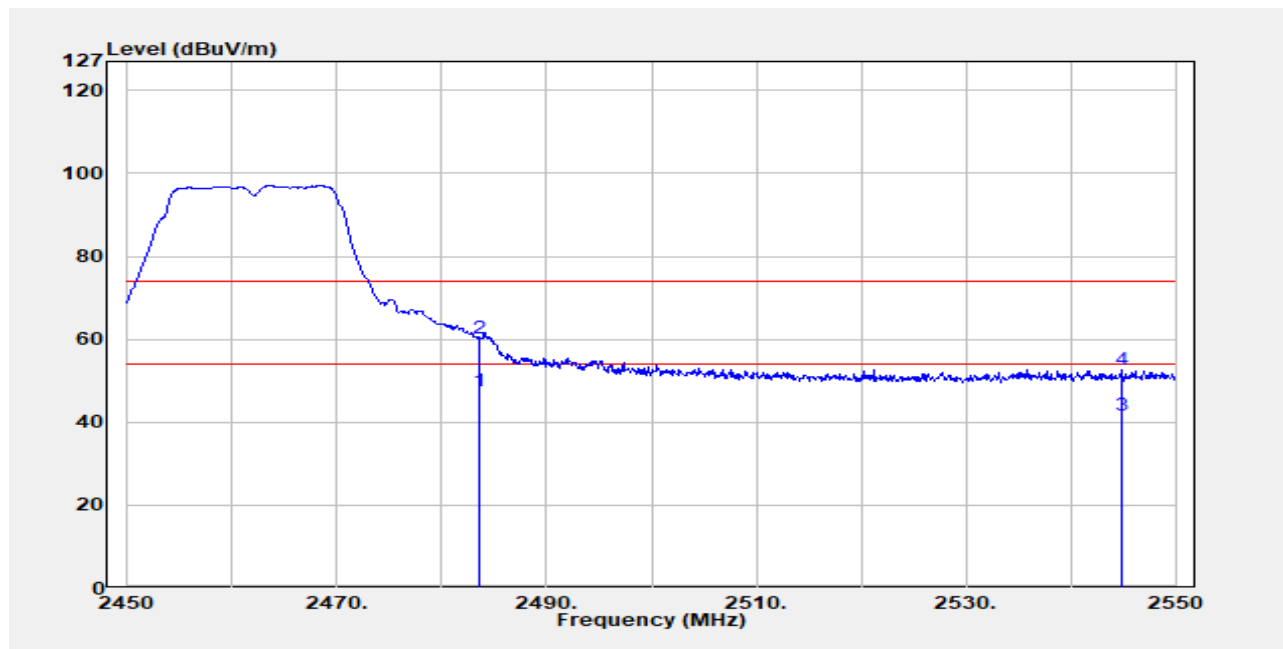
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 43.76                             | -0.16        | 43.60                  | 54.00                  | -10.40       |
| 2483.50      | Peak                         | 54.81                             | -0.16        | 54.65                  | 74.00                  | -19.35       |
| 2487.24      | Average                      | 43.17                             | -0.16        | 43.02                  | 54.00                  | -10.98       |
| 2487.24      | Peak                         | 56.47                             | -0.16        | 56.31                  | 74.00                  | -17.69       |
| 2548.92      | Average                      | 41.34                             | -0.07        | 41.27                  | 54.00                  | -12.73       |
| 2548.92      | Peak                         | 51.95                             | -0.07        | 51.88                  | 74.00                  | -22.12       |

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|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061    | Test Site    | :SAC 1      |
| Operation Mode | :802.11g          | Test Date    | :2021-11-02 |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane          | Engineer     | :Neo Tsai   |



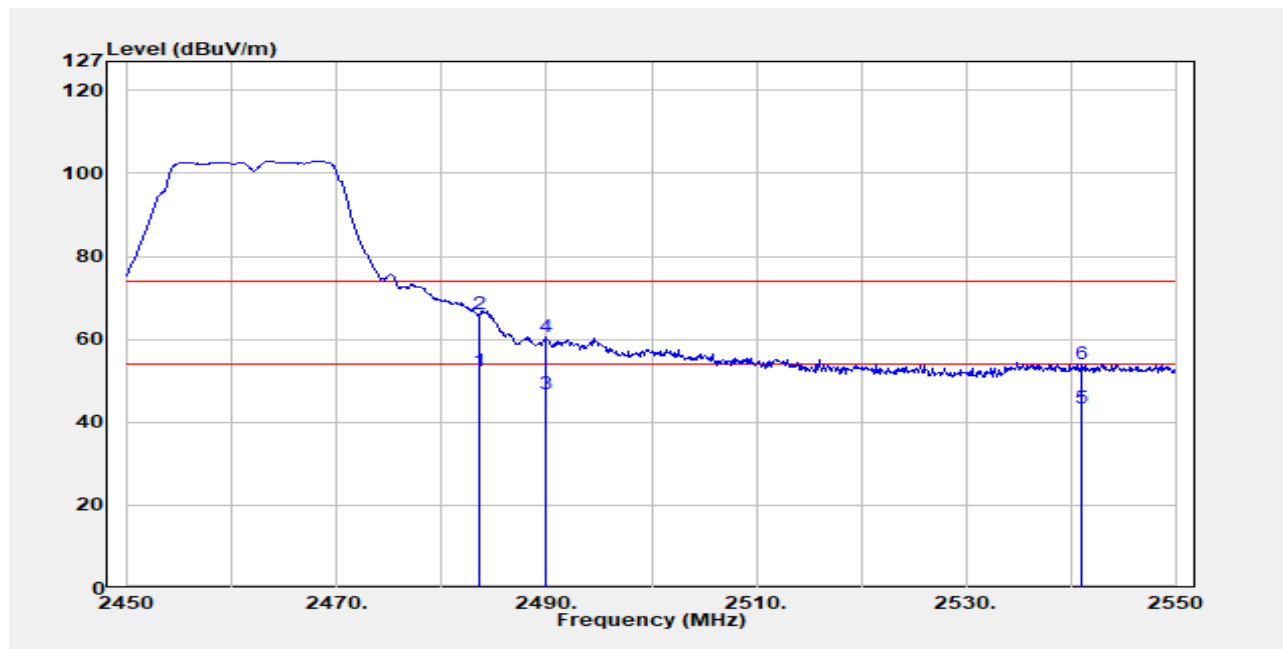
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 47.56                             | -0.16        | 47.40                  | 54.00                  | -6.60        |
| 2483.50      | Peak                         | 60.36                             | -0.16        | 60.19                  | 74.00                  | -13.81       |
| 2544.90      | Average                      | 41.69                             | -0.08        | 41.61                  | 54.00                  | -12.39       |
| 2544.90      | Peak                         | 52.79                             | -0.08        | 52.72                  | 74.00                  | -21.28       |

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|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061    | Test Site    | :SAC 1      |
| Operation Mode | :802.11g          | Test Date    | :2021-11-02 |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane          | Engineer     | :Neo Tsai   |



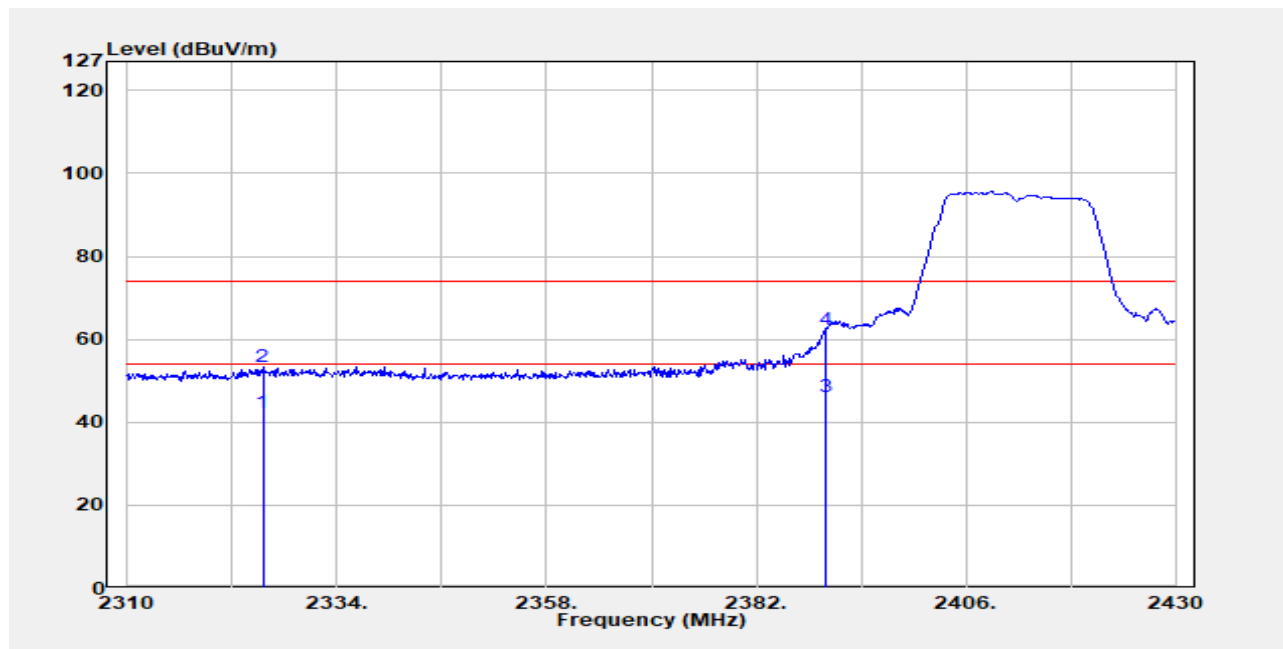
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 52.46                             | -0.16        | 52.30                  | 54.00                  | -1.70        |
| 2483.50      | Peak                         | 66.23                             | -0.16        | 66.07                  | 74.00                  | -7.93        |
| 2490.00      | Average                      | 47.11                             | -0.16        | 46.95                  | 54.00                  | -7.05        |
| 2490.00      | Peak                         | 60.66                             | -0.16        | 60.51                  | 74.00                  | -13.49       |
| 2541.10      | Average                      | 43.38                             | -0.08        | 43.30                  | 54.00                  | -10.70       |
| 2541.10      | Peak                         | 54.26                             | -0.08        | 54.18                  | 74.00                  | -19.82       |

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|                |                  |              |             |
|----------------|------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061   | Test Site    | :SAC 1      |
| Operation Mode | :802.11n20       | Test Date    | :2021-11-02 |
| Test Frequency | :2412 MHz        | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane         | Engineer     | :Neo Tsai   |



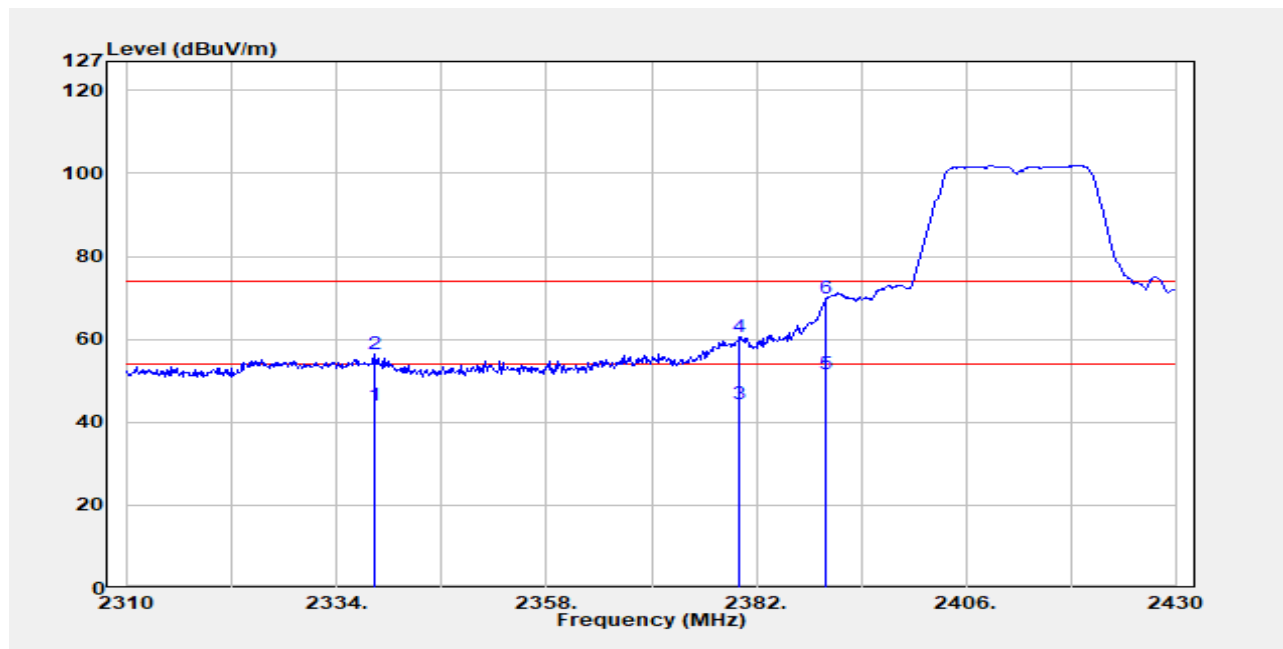
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2325.48      | Average                      | 42.35                             | 0.01         | 42.36                  | 54.00                  | -11.64       |
| 2325.48      | Peak                         | 53.36                             | 0.01         | 53.37                  | 74.00                  | -20.63       |
| 2390.00      | Average                      | 46.11                             | -0.12        | 45.99                  | 54.00                  | -8.01        |
| 2390.00      | Peak                         | 62.41                             | -0.12        | 62.29                  | 74.00                  | -11.71       |

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|                |                  |              |             |
|----------------|------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061   | Test Site    | :SAC 1      |
| Operation Mode | :802.11n20       | Test Date    | :2021-11-02 |
| Test Frequency | :2412 MHz        | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane         | Engineer     | :Neo Tsai   |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2338.20      | Average                      | 43.93                             | 0.01         | 43.94                  | 54.00                  | -10.06       |
| 2338.20      | Peak                         | 56.41                             | 0.01         | 56.43                  | 74.00                  | -17.57       |
| 2380.08      | Average                      | 44.53                             | -0.08        | 44.45                  | 54.00                  | -9.55        |
| 2380.08      | Peak                         | 60.52                             | -0.08        | 60.43                  | 74.00                  | -13.57       |
| 2390.00      | Average                      | 51.78                             | -0.12        | 51.66                  | 54.00                  | -2.34        |
| 2390.00      | Peak                         | 69.97                             | -0.12        | 69.85                  | 74.00                  | -4.15        |

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Report Number :ER/2021/A0061

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

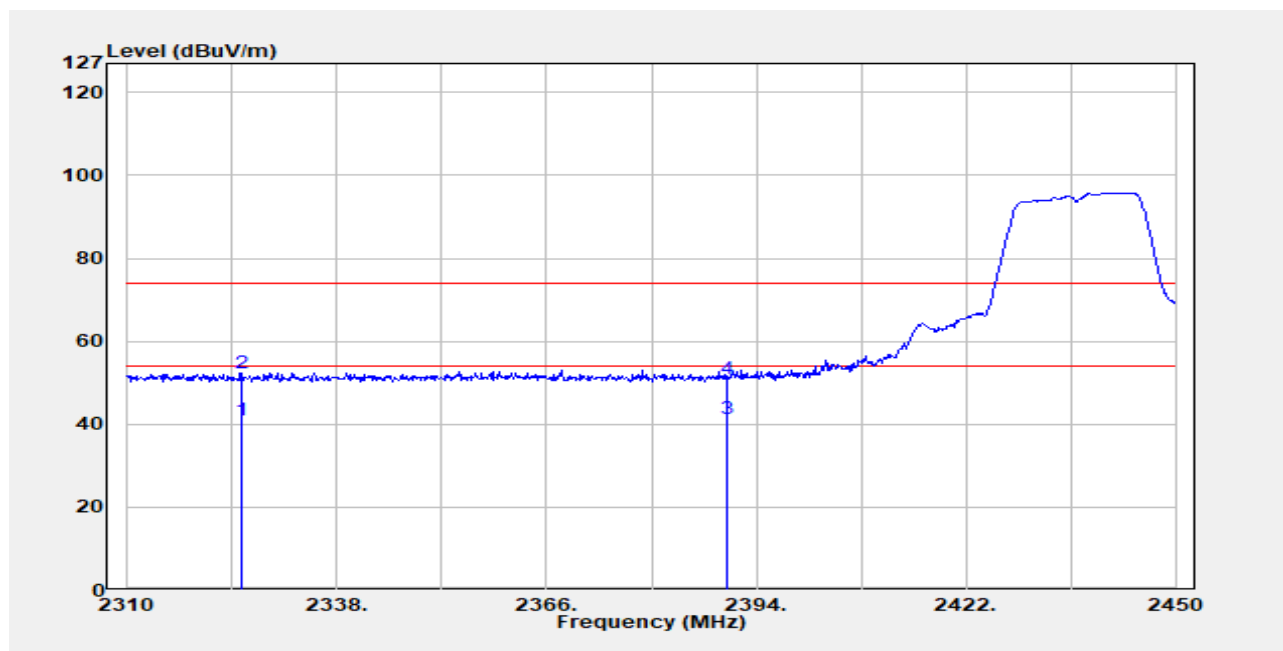
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2325.12      | Average                      | 41.03                             | 0.01         | 41.03                  | 54.00                  | -12.97       |
| 2325.12      | Peak                         | 52.44                             | 0.01         | 52.45                  | 74.00                  | -21.55       |
| 2390.00      | Average                      | 41.44                             | -0.12        | 41.32                  | 54.00                  | -12.68       |
| 2390.00      | Peak                         | 51.23                             | -0.12        | 51.11                  | 74.00                  | -22.89       |

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Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

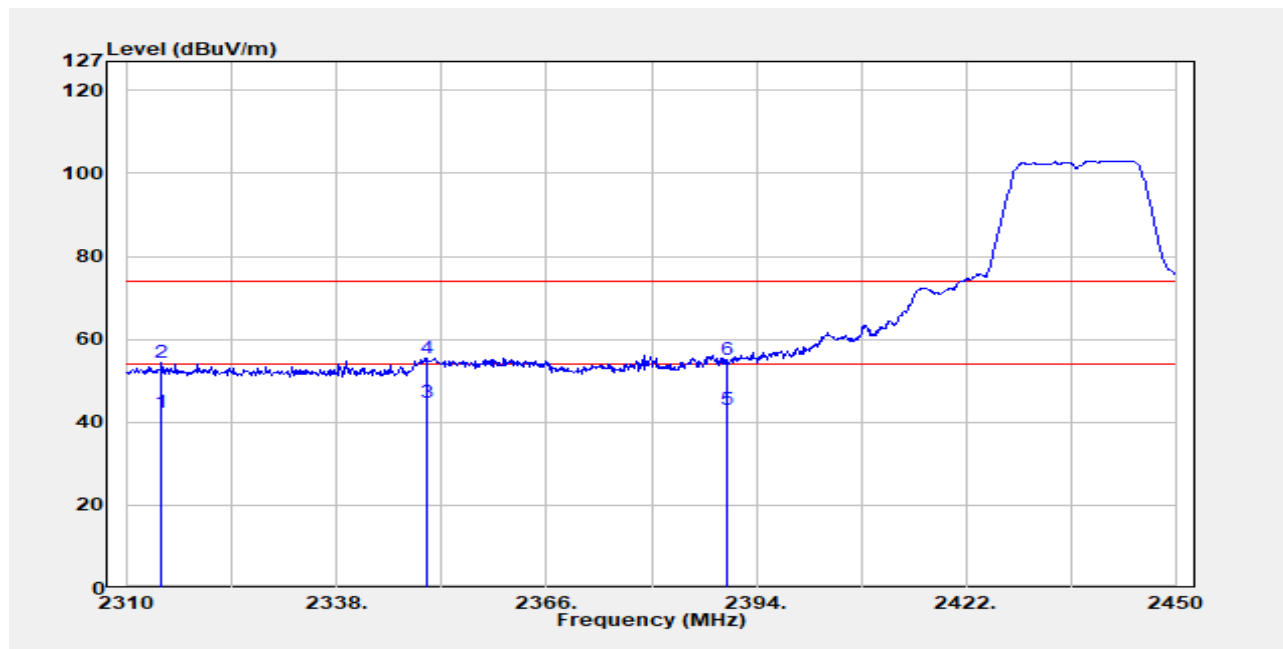
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2314.48      | Average                      | 42.22                             | 0.00         | 42.22                  | 54.00                  | -11.78       |
| 2314.48      | Peak                         | 54.25                             | 0.00         | 54.26                  | 74.00                  | -19.74       |
| 2349.90      | Average                      | 44.62                             | 0.02         | 44.64                  | 54.00                  | -9.36        |
| 2349.90      | Peak                         | 55.36                             | 0.02         | 55.38                  | 74.00                  | -18.62       |
| 2390.00      | Average                      | 43.04                             | -0.12        | 42.92                  | 54.00                  | -11.08       |
| 2390.00      | Peak                         | 55.28                             | -0.12        | 55.16                  | 74.00                  | -18.84       |

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Report Number :ER/2021/A0061

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

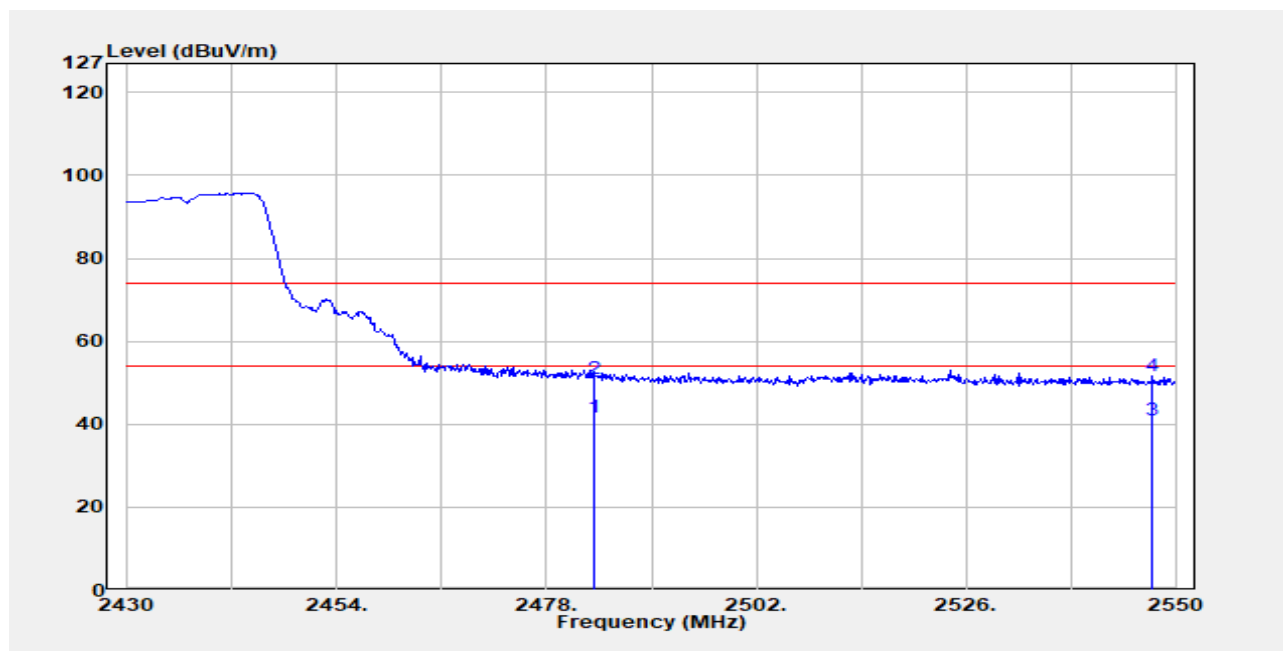
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Vertical

Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 41.76                             | -0.16        | 41.60                  | 54.00                  | -12.40       |
| 2483.50      | Peak                         | 51.22                             | -0.16        | 51.06                  | 74.00                  | -22.94       |
| 2547.36      | Average                      | 40.87                             | -0.07        | 40.80                  | 54.00                  | -13.20       |
| 2547.36      | Peak                         | 51.65                             | -0.07        | 51.58                  | 74.00                  | -22.42       |

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Report Number :ER/2021/A0061

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :H Plane

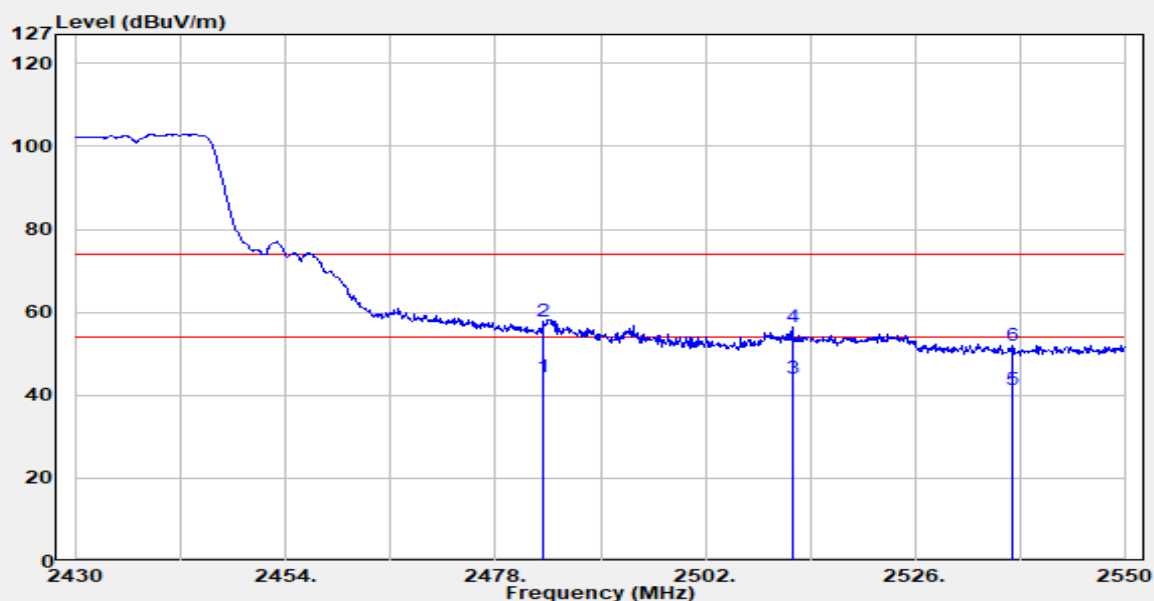
Test Site :SAC 1

Test Date :2021-11-02

Temp./Humi. :25.5/65

Antenna Pol. :Horizontal

Engineer :Neo Tsai



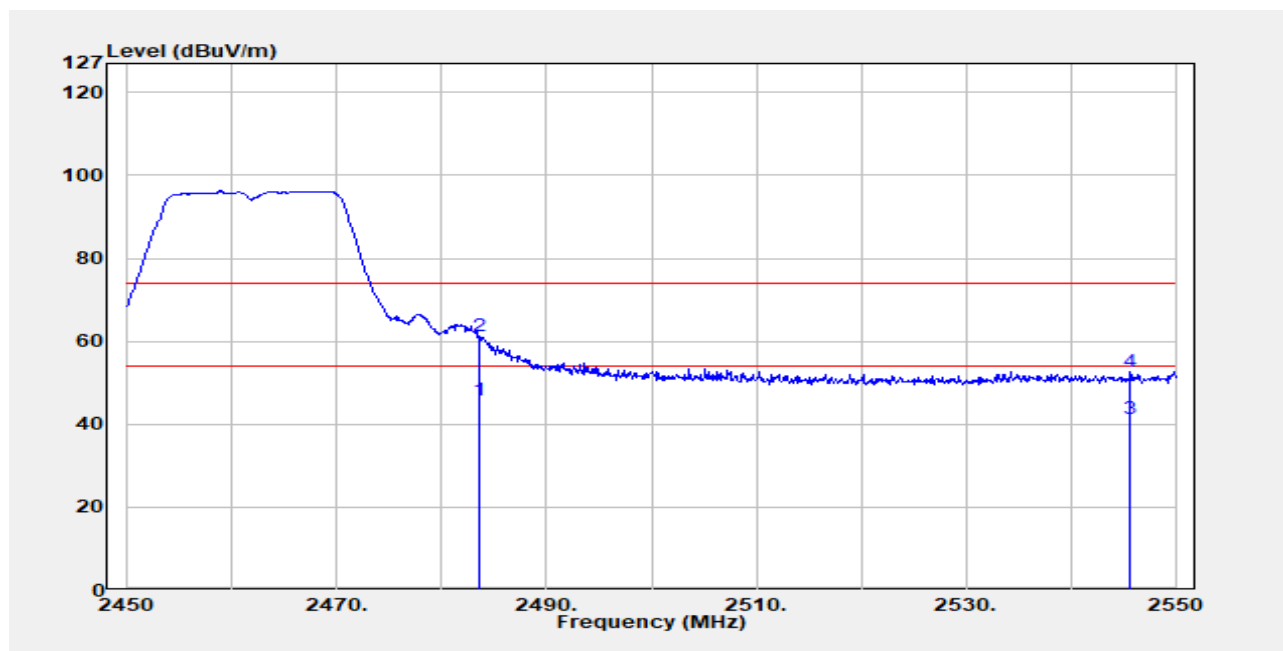
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 44.52                             | -0.16        | 44.36                  | 54.00                  | -9.64        |
| 2483.50      | Peak                         | 57.83                             | -0.16        | 57.67                  | 74.00                  | -16.33       |
| 2511.96      | Average                      | 44.15                             | -0.13        | 44.02                  | 54.00                  | -9.98        |
| 2511.96      | Peak                         | 56.44                             | -0.13        | 56.32                  | 74.00                  | -17.68       |
| 2537.16      | Average                      | 41.50                             | -0.09        | 41.41                  | 54.00                  | -12.59       |
| 2537.16      | Peak                         | 52.17                             | -0.09        | 52.08                  | 74.00                  | -21.92       |

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|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061    | Test Site    | :SAC 1      |
| Operation Mode | :802.11n20        | Test Date    | :2021-11-02 |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane          | Engineer     | :Neo Tsai   |



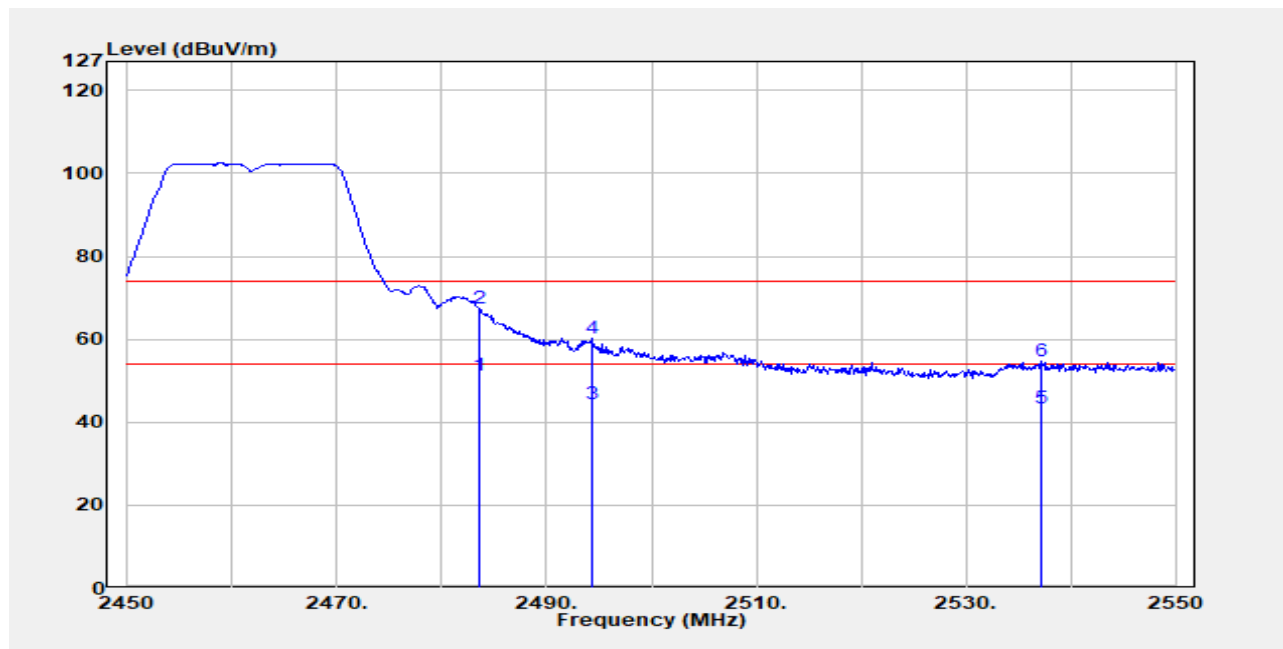
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 45.86                             | -0.16        | 45.70                  | 54.00                  | -8.30        |
| 2483.50      | Peak                         | 61.45                             | -0.16        | 61.28                  | 74.00                  | -12.72       |
| 2545.70      | Average                      | 41.45                             | -0.07        | 41.37                  | 54.00                  | -12.63       |
| 2545.70      | Peak                         | 52.59                             | -0.07        | 52.52                  | 74.00                  | -21.48       |

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|                |                   |              |             |
|----------------|-------------------|--------------|-------------|
| Report Number  | :ER/2021/A0061    | Test Site    | :SAC 1      |
| Operation Mode | :802.11n20        | Test Date    | :2021-11-02 |
| Test Frequency | :2462 MHz         | Temp./Humi.  | :25.5/65    |
| Test Mode      | :Bandedge CH High | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane          | Engineer     | :Neo Tsai   |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 2483.50      | Average                      | 51.29                             | -0.16        | 51.13                  | 54.00                  | -2.87        |
| 2483.50      | Peak                         | 67.61                             | -0.16        | 67.45                  | 74.00                  | -6.55        |
| 2494.30      | Average                      | 44.54                             | -0.15        | 44.39                  | 54.00                  | -9.61        |
| 2494.30      | Peak                         | 60.49                             | -0.15        | 60.34                  | 74.00                  | -13.66       |
| 2537.20      | Average                      | 43.34                             | -0.09        | 43.25                  | 54.00                  | -10.75       |
| 2537.20      | Peak                         | 54.70                             | -0.09        | 54.61                  | 74.00                  | -19.39       |

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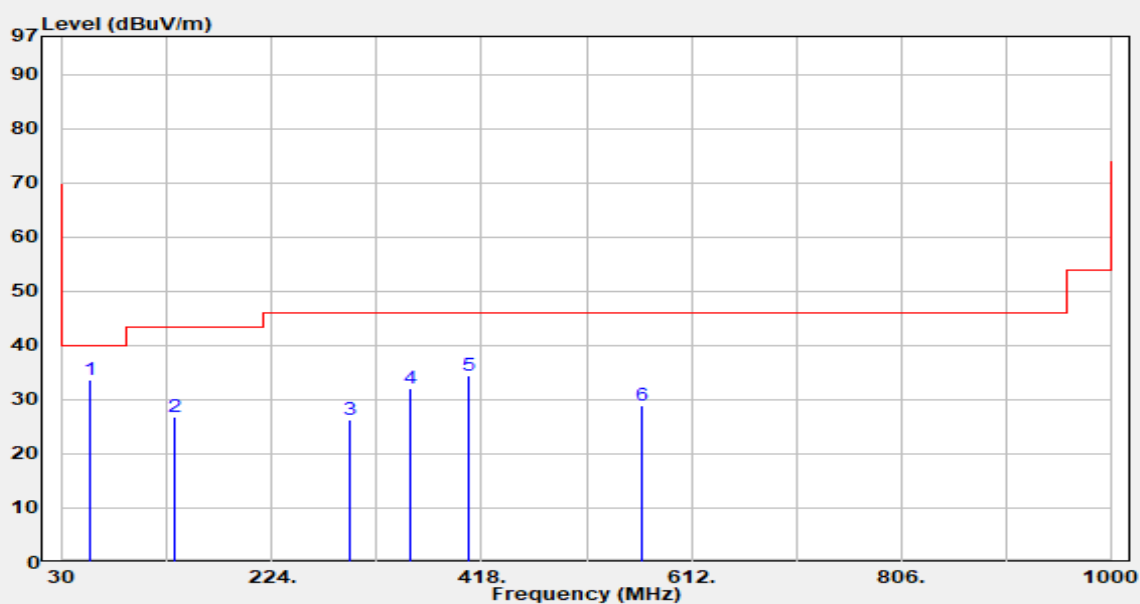
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## 13.6.2 發射機場強輻射

Report Number :ER/2021/A0061  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 1  
 Test Date :2021-11-04  
 Temp./Humi. :25.8/65  
 Antenna Pol. :Vertical  
 Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 55.87        | Peak                         | 51.33                             | -17.58       | 33.75                  | 40.00                  | -6.25        |
| 133.47       | Peak                         | 38.70                             | -11.94       | 26.76                  | 43.50                  | -16.74       |
| 296.75       | Peak                         | 35.59                             | -9.31        | 26.29                  | 46.00                  | -19.71       |
| 351.72       | Peak                         | 40.11                             | -8.08        | 32.04                  | 46.00                  | -13.97       |
| 405.07       | Peak                         | 41.14                             | -6.61        | 34.52                  | 46.00                  | -11.48       |
| 566.73       | Peak                         | 33.62                             | -4.61        | 29.02                  | 46.00                  | -16.98       |

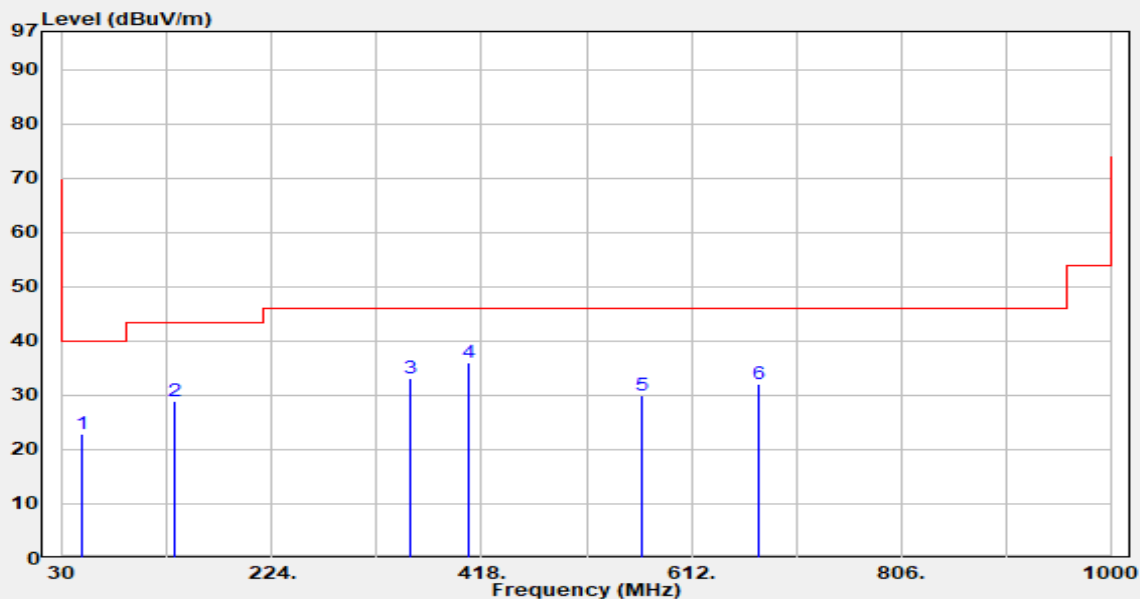
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC 1  
Test Date :2021-11-04  
Temp./Humi. :25.8/65  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 47.78        | Peak                         | 37.38                             | -14.53       | 22.85                  | 40.00                  | -17.15       |
| 133.47       | Peak                         | 40.96                             | -11.94       | 29.03                  | 43.50                  | -14.47       |
| 351.72       | Peak                         | 41.18                             | -8.08        | 33.11                  | 46.00                  | -12.90       |
| 405.07       | Peak                         | 42.70                             | -6.61        | 36.09                  | 46.00                  | -9.91        |
| 566.73       | Peak                         | 34.67                             | -4.61        | 30.07                  | 46.00                  | -15.93       |
| 675.05       | Peak                         | 35.20                             | -3.14        | 32.06                  | 46.00                  | -13.94       |

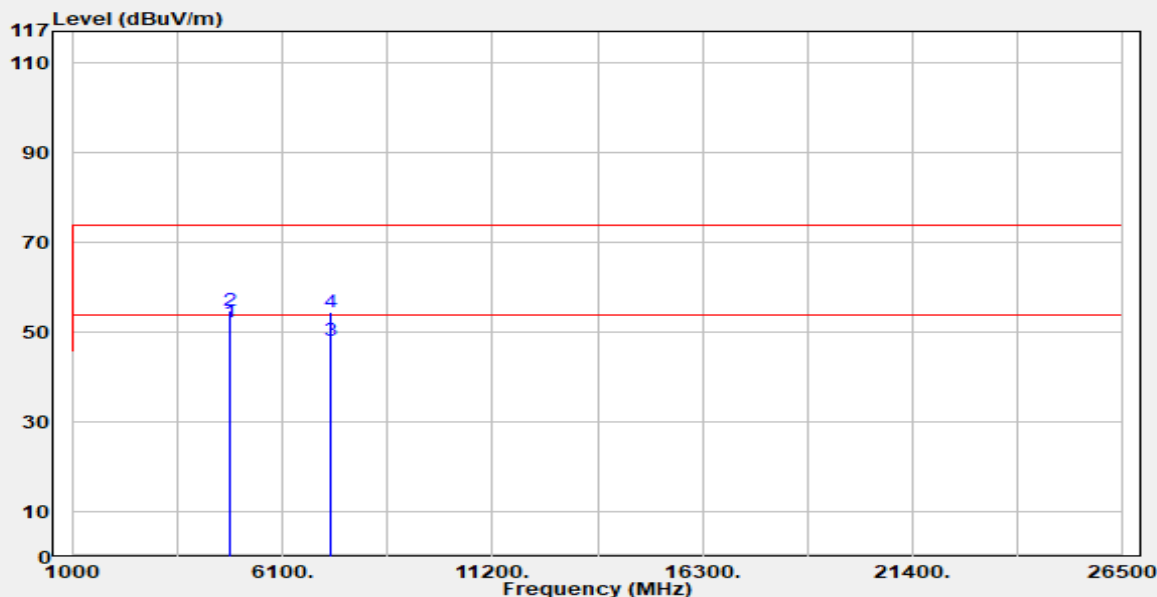
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Report Number :ER/2021/A0061  
Operation Mode :802.11b  
Test Frequency :2412 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00      | Average                      | 45.21                             | 7.09         | 52.30                  | 54.00                  | -1.70        |
| 4824.00      | Peak                         | 47.78                             | 7.09         | 54.87                  | 74.00                  | -19.13       |
| 7236.00      | Average                      | 32.85                             | 15.32        | 48.17                  | 54.00                  | -5.83        |
| 7236.00      | Peak                         | 39.30                             | 15.32        | 54.62                  | 74.00                  | -19.38       |

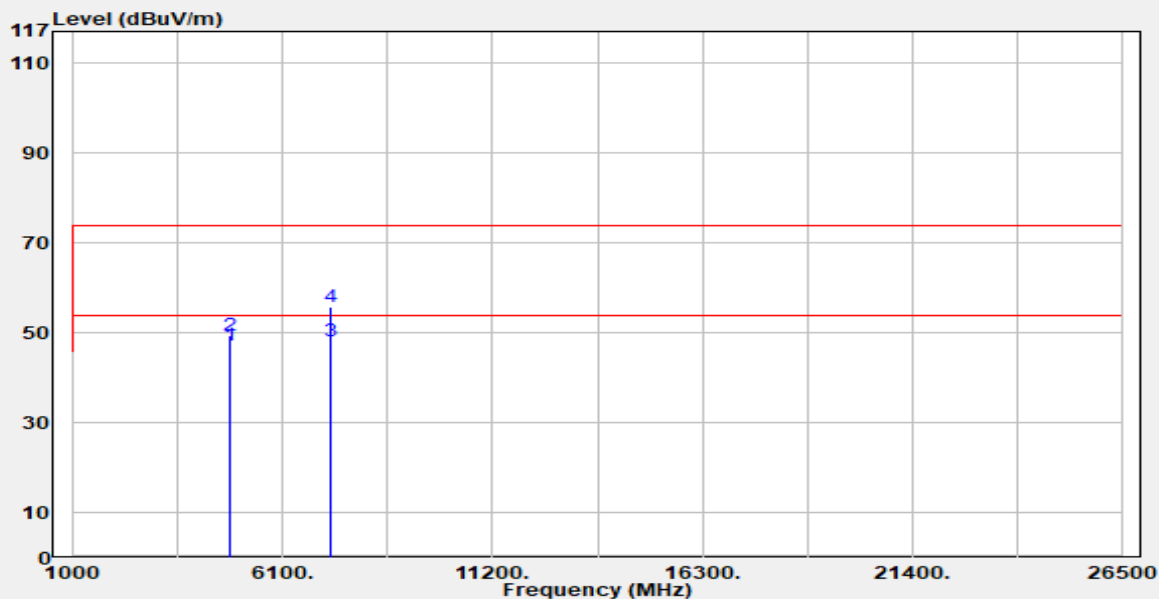
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Report Number :ER/2021/A0061  
Operation Mode :802.11b  
Test Frequency :2412 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00      | Average                      | 40.30                             | 6.82         | 47.12                  | 54.00                  | -6.88        |
| 4824.00      | Peak                         | 42.63                             | 6.82         | 49.45                  | 74.00                  | -24.55       |
| 7236.00      | Average                      | 32.38                             | 15.66        | 48.04                  | 54.00                  | -5.96        |
| 7236.00      | Peak                         | 40.07                             | 15.66        | 55.73                  | 74.00                  | -18.27       |

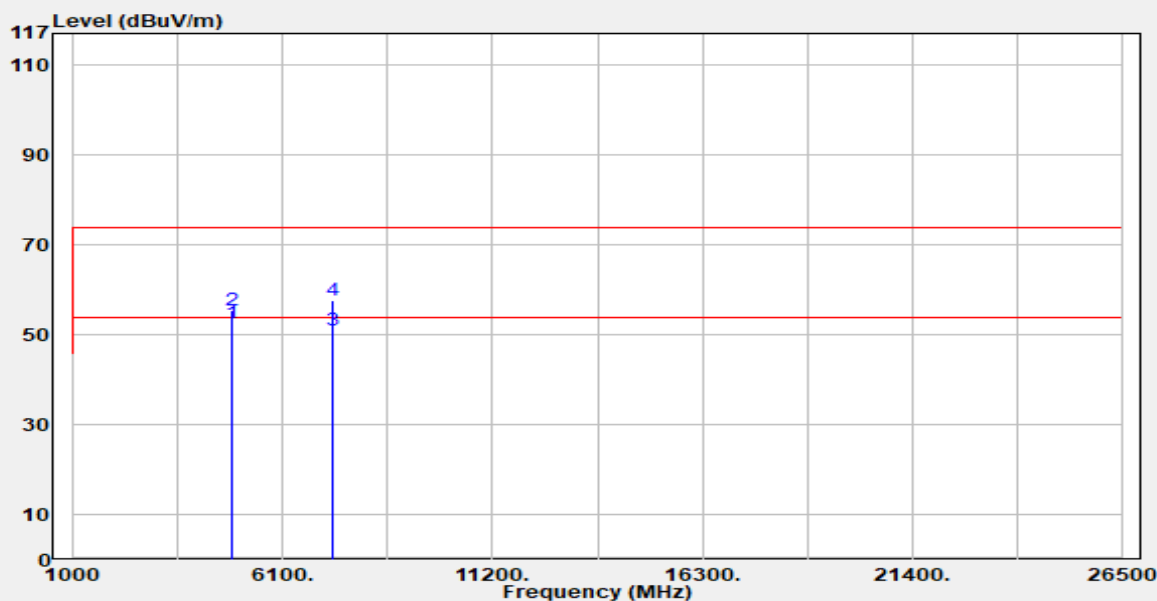
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Report Number :ER/2021/A0061  
Operation Mode :802.11b  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00      | Average                      | 45.88                             | 6.83         | 52.71                  | 54.00                  | -1.29        |
| 4874.00      | Peak                         | 48.64                             | 6.83         | 55.47                  | 74.00                  | -18.53       |
| 7311.00      | Average                      | 36.12                             | 15.03        | 51.15                  | 54.00                  | -2.85        |
| 7311.00      | Peak                         | 42.66                             | 15.03        | 57.69                  | 74.00                  | -16.31       |

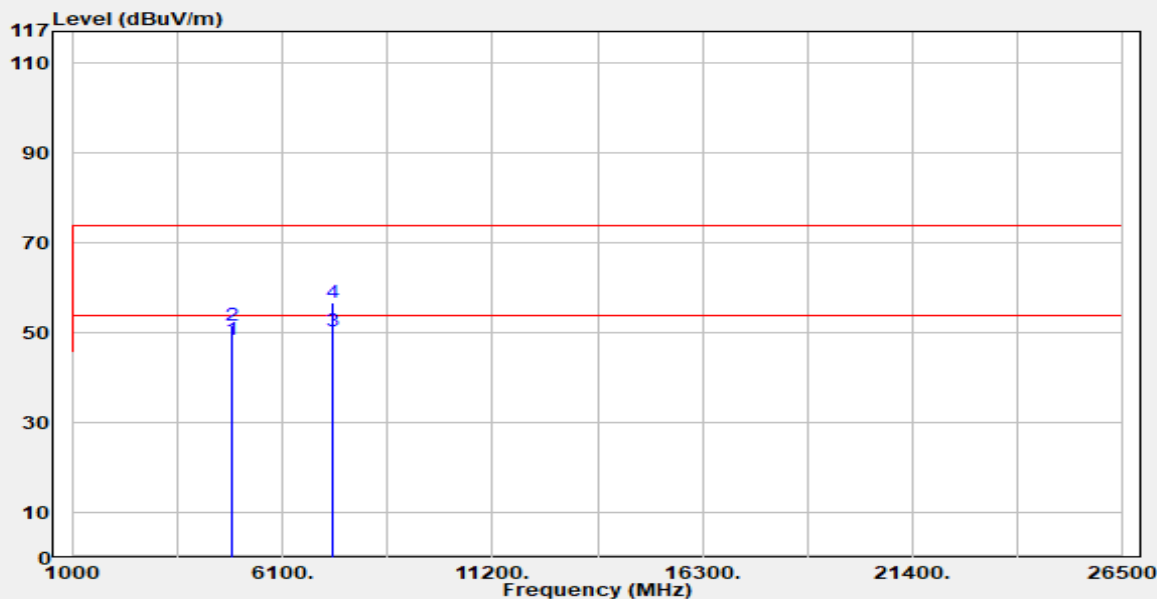
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Report Number :ER/2021/A0061  
Operation Mode :802.11b  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00      | Average                      | 41.57                             | 6.83         | 48.40                  | 54.00                  | -5.60        |
| 4874.00      | Peak                         | 44.87                             | 6.83         | 51.70                  | 74.00                  | -22.30       |
| 7311.00      | Average                      | 35.32                             | 15.03        | 50.35                  | 54.00                  | -3.65        |
| 7311.00      | Peak                         | -35.89                            | 92.56        | 56.67                  | 74.00                  | -17.33       |

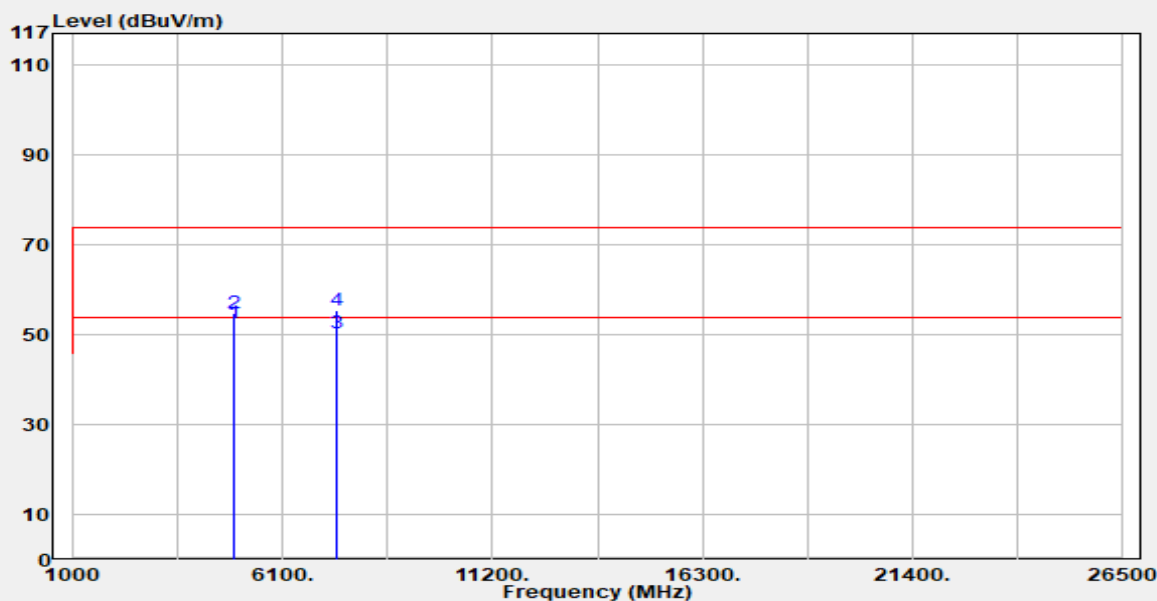
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Report Number :ER/2021/A0061  
Operation Mode :802.11b  
Test Frequency :2462 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00      | Average                      | 45.53                             | 7.00         | 52.53                  | 54.00                  | -1.47        |
| 4924.00      | Peak                         | 47.71                             | 7.00         | 54.71                  | 74.00                  | -19.29       |
| 7386.00      | Average                      | 35.68                             | 14.64        | 50.32                  | 54.00                  | -3.68        |
| 7386.00      | Peak                         | 40.90                             | 14.64        | 55.54                  | 74.00                  | -18.46       |

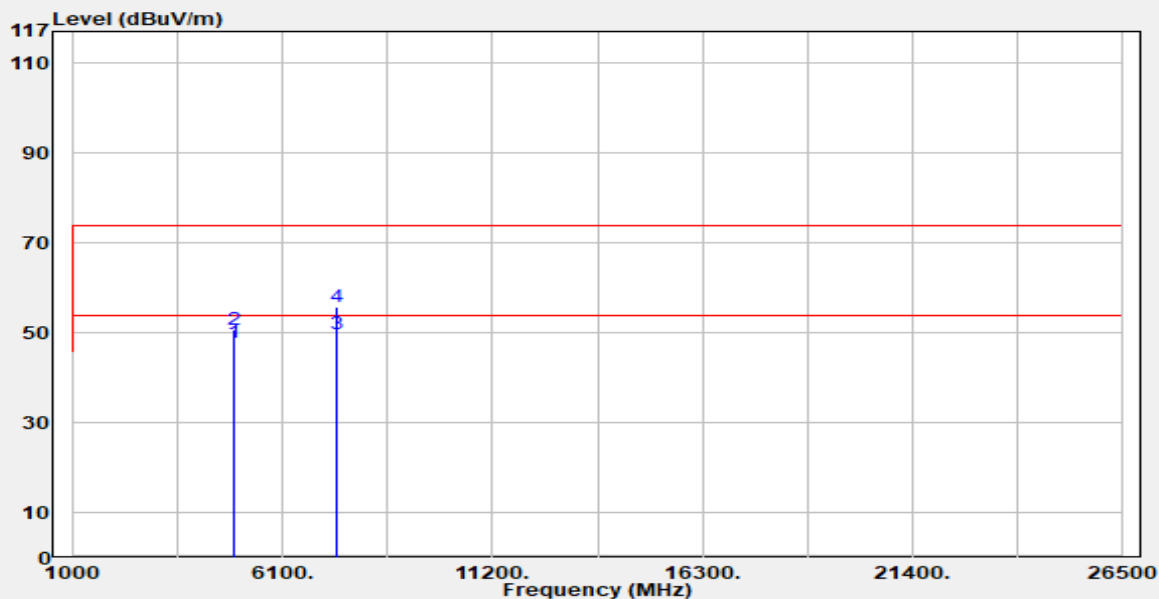
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Report Number :ER/2021/A0061  
Operation Mode :802.11b  
Test Frequency :2462 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00      | Average                      | 40.98                             | 7.00         | 47.98                  | 54.00                  | -6.02        |
| 4924.00      | Peak                         | 43.85                             | 7.00         | 50.85                  | 74.00                  | -23.15       |
| 7386.00      | Average                      | 35.01                             | 14.64        | 49.65                  | 54.00                  | -4.35        |
| 7386.00      | Peak                         | 41.14                             | 14.64        | 55.78                  | 74.00                  | -18.22       |

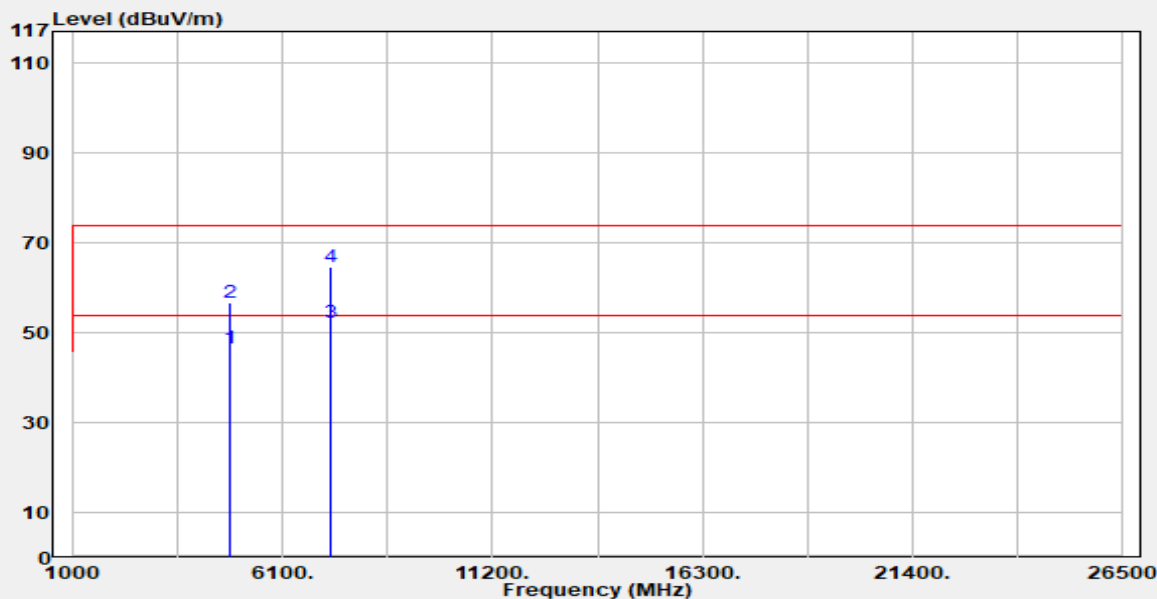
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2412 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00      | Average                      | 39.63                             | 7.09         | 46.72                  | 54.00                  | -7.28        |
| 4824.00      | Peak                         | 49.74                             | 7.09         | 56.83                  | 74.00                  | -17.17       |
| 7236.00      | Average                      | 36.84                             | 15.32        | 52.16                  | 54.00                  | -1.84        |
| 7236.00      | Peak                         | 49.23                             | 15.32        | 64.55                  | 74.00                  | -9.45        |

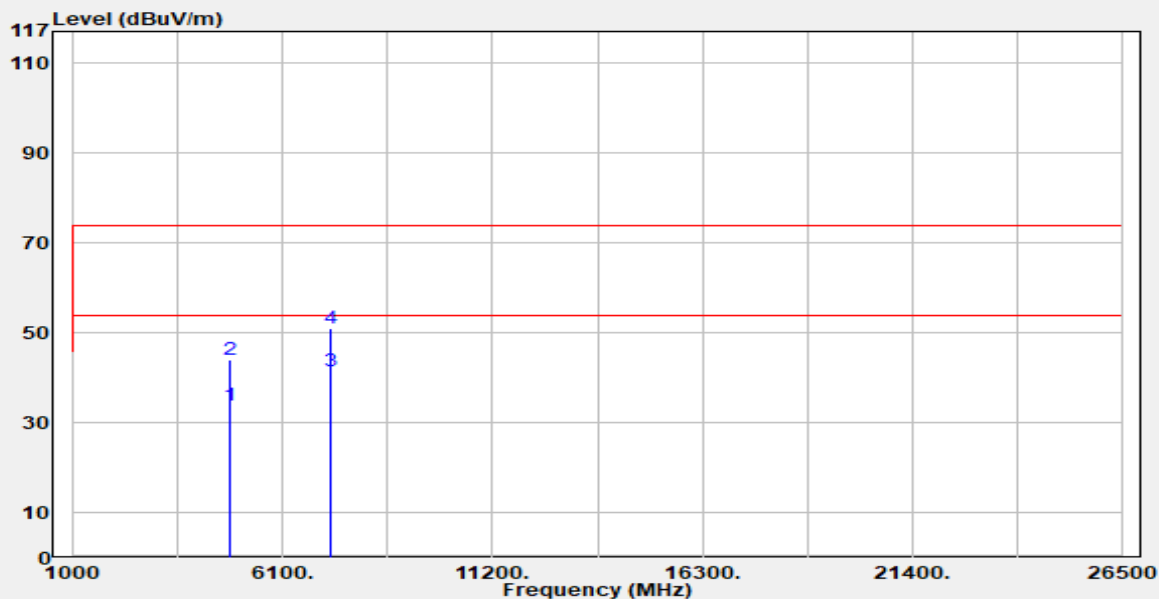
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2412 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00      | Average                      | 26.76                             | 7.09         | 33.85                  | 54.00                  | -20.15       |
| 4824.00      | Peak                         | 36.85                             | 7.09         | 43.94                  | 74.00                  | -30.06       |
| 7236.00      | Average                      | 26.07                             | 15.32        | 41.39                  | 54.00                  | -12.61       |
| 7236.00      | Peak                         | 35.69                             | 15.32        | 51.01                  | 74.00                  | -22.99       |

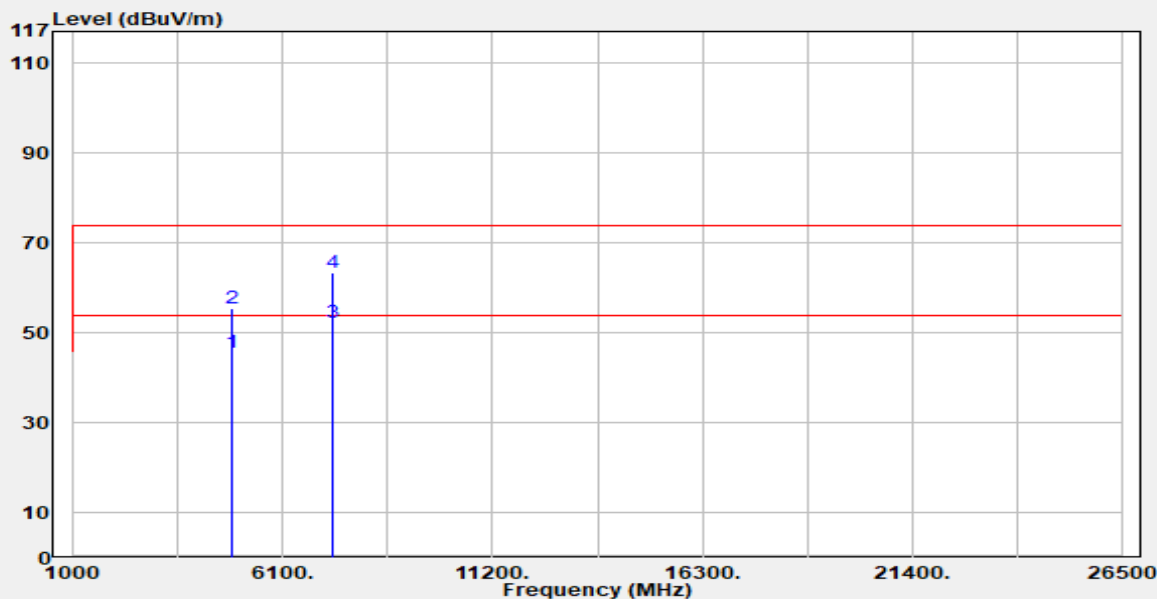
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00      | Average                      | 38.68                             | 6.83         | 45.51                  | 54.00                  | -8.49        |
| 4874.00      | Peak                         | 48.76                             | 6.83         | 55.59                  | 74.00                  | -18.41       |
| 7311.00      | Average                      | 37.30                             | 15.03        | 52.33                  | 54.00                  | -1.67        |
| 7311.00      | Peak                         | 48.49                             | 15.03        | 63.52                  | 74.00                  | -10.48       |

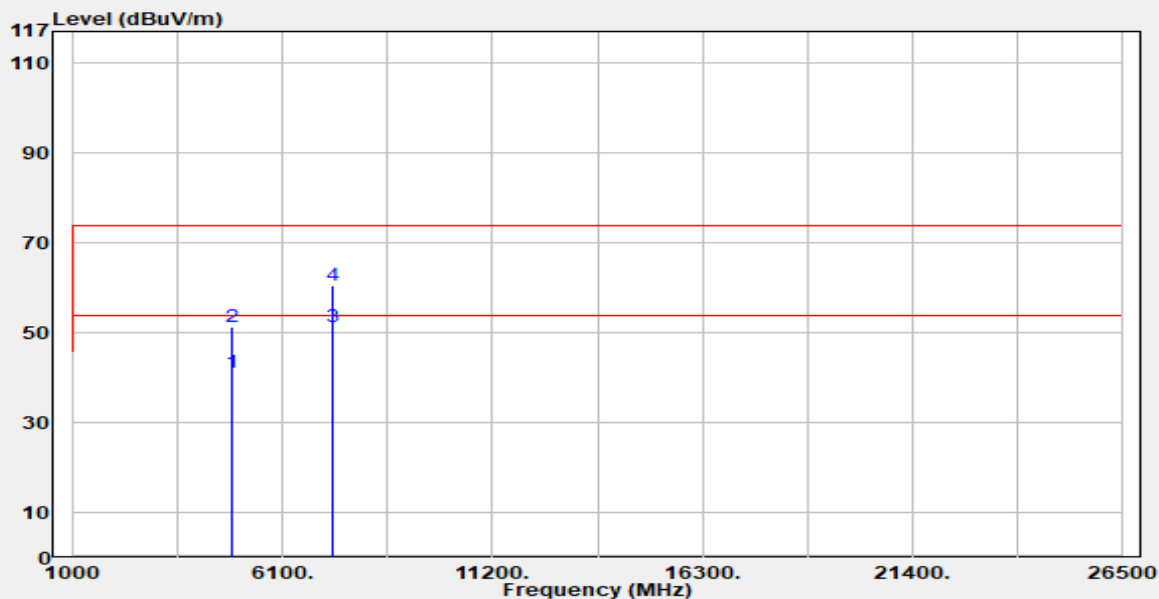
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00      | Average                      | 34.29                             | 6.83         | 41.12                  | 54.00                  | -12.88       |
| 4874.00      | Peak                         | 44.43                             | 6.83         | 51.26                  | 74.00                  | -22.74       |
| 7311.00      | Average                      | 36.45                             | 15.03        | 51.48                  | 54.00                  | -2.52        |
| 7311.00      | Peak                         | 45.54                             | 15.03        | 60.57                  | 74.00                  | -13.43       |

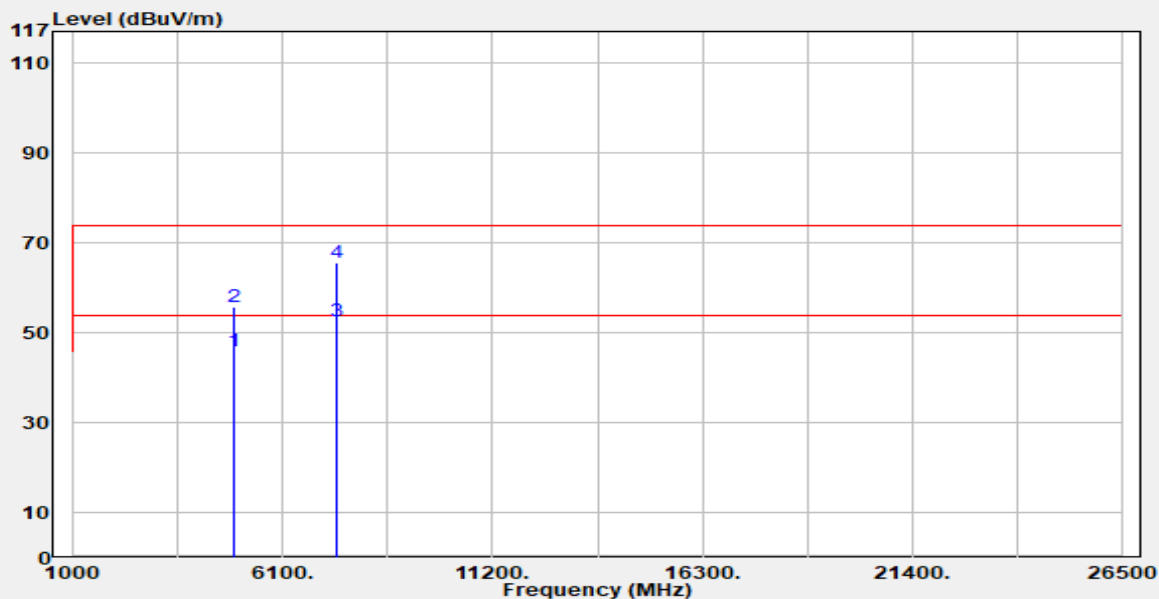
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2462 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00      | Average                      | 39.05                             | 7.00         | 46.05                  | 54.00                  | -7.95        |
| 4924.00      | Peak                         | 48.78                             | 7.00         | 55.78                  | 74.00                  | -18.22       |
| 7386.00      | Average                      | 37.87                             | 14.64        | 52.51                  | 54.00                  | -1.49        |
| 7386.00      | Peak                         | 50.84                             | 14.64        | 65.48                  | 74.00                  | -8.52        |

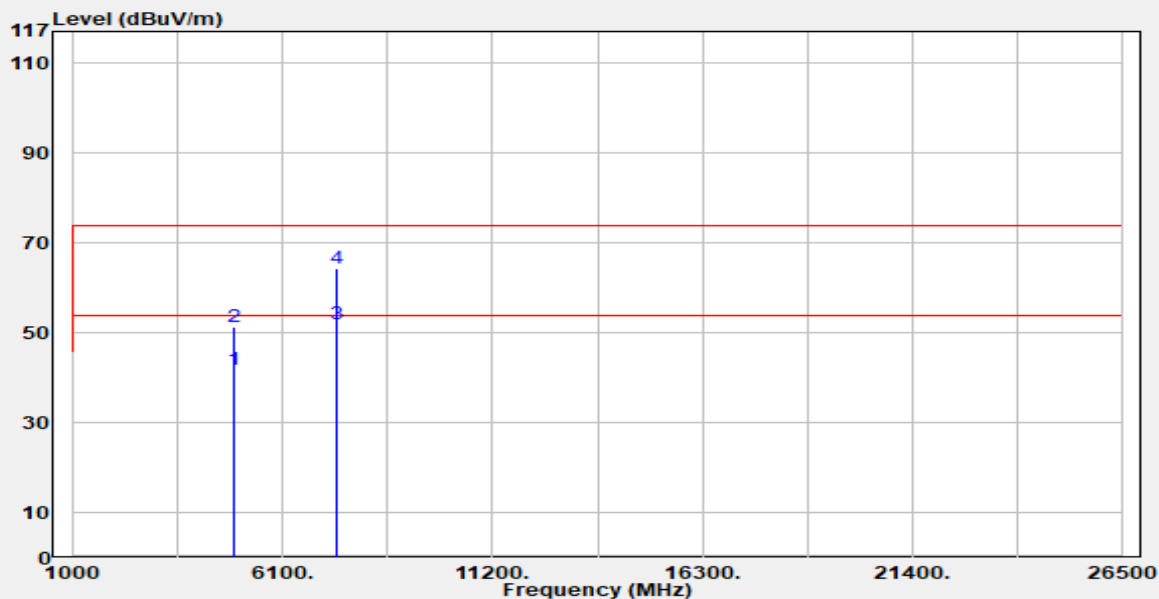
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2462 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00      | Average                      | 34.88                             | 7.00         | 41.88                  | 54.00                  | -12.12       |
| 4924.00      | Peak                         | 44.27                             | 7.00         | 51.27                  | 74.00                  | -22.73       |
| 7386.00      | Average                      | 37.38                             | 14.64        | 52.02                  | 54.00                  | -1.98        |
| 7386.00      | Peak                         | 49.65                             | 14.64        | 64.29                  | 74.00                  | -9.71        |

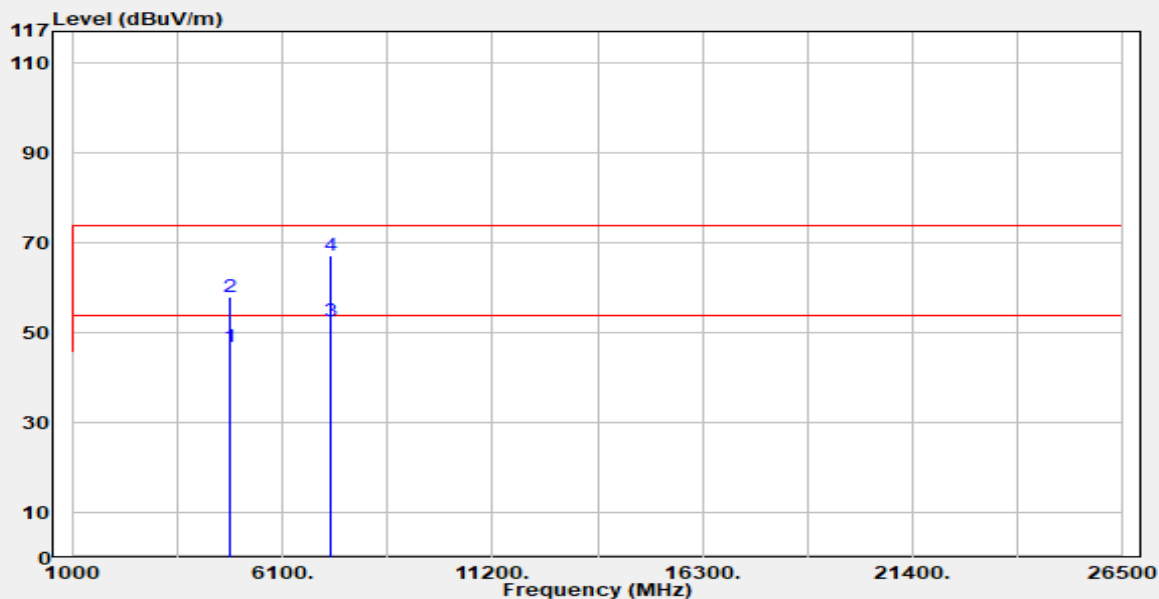
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Report Number :ER/2021/A0061  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00      | Average                      | 39.95                             | 7.09         | 47.04                  | 54.00                  | -6.96        |
| 4824.00      | Peak                         | 50.93                             | 7.09         | 58.02                  | 74.00                  | -15.98       |
| 7236.00      | Average                      | 37.41                             | 15.32        | 52.73                  | 54.00                  | -1.27        |
| 7236.00      | Peak                         | 51.93                             | 15.32        | 67.25                  | 74.00                  | -6.75        |

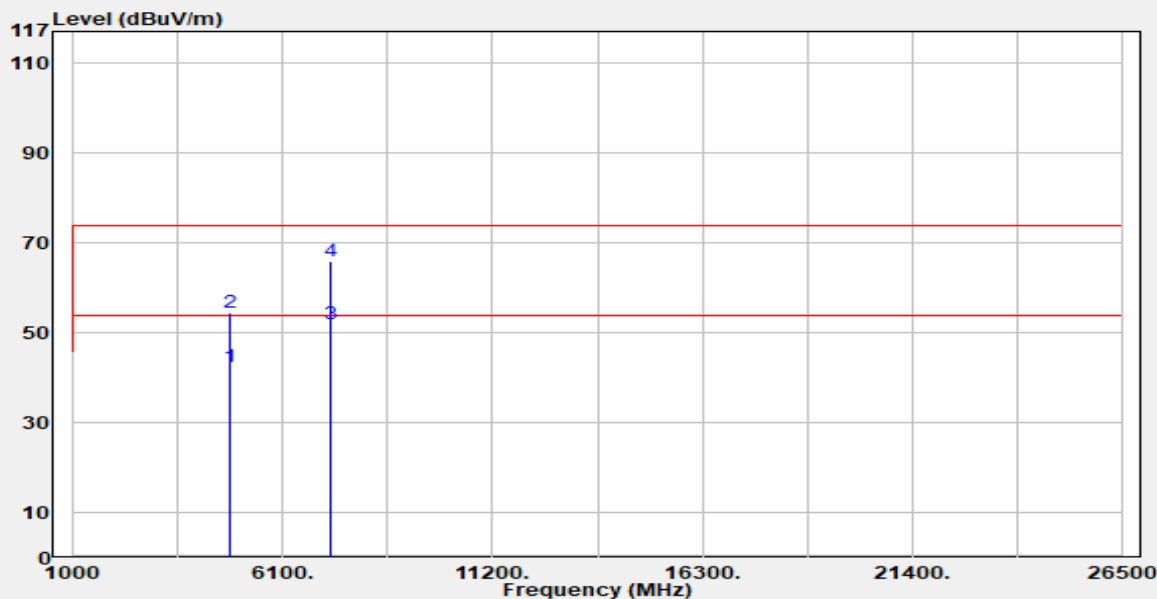
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Report Number :ER/2021/A0061  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00      | Average                      | 35.74                             | 6.82         | 42.56                  | 54.00                  | -11.44       |
| 4824.00      | Peak                         | 47.62                             | 6.82         | 54.44                  | 74.00                  | -19.56       |
| 7236.00      | Average                      | 36.48                             | 15.66        | 52.14                  | 54.00                  | -1.86        |
| 7236.00      | Peak                         | 50.41                             | 15.66        | 66.07                  | 74.00                  | -7.93        |

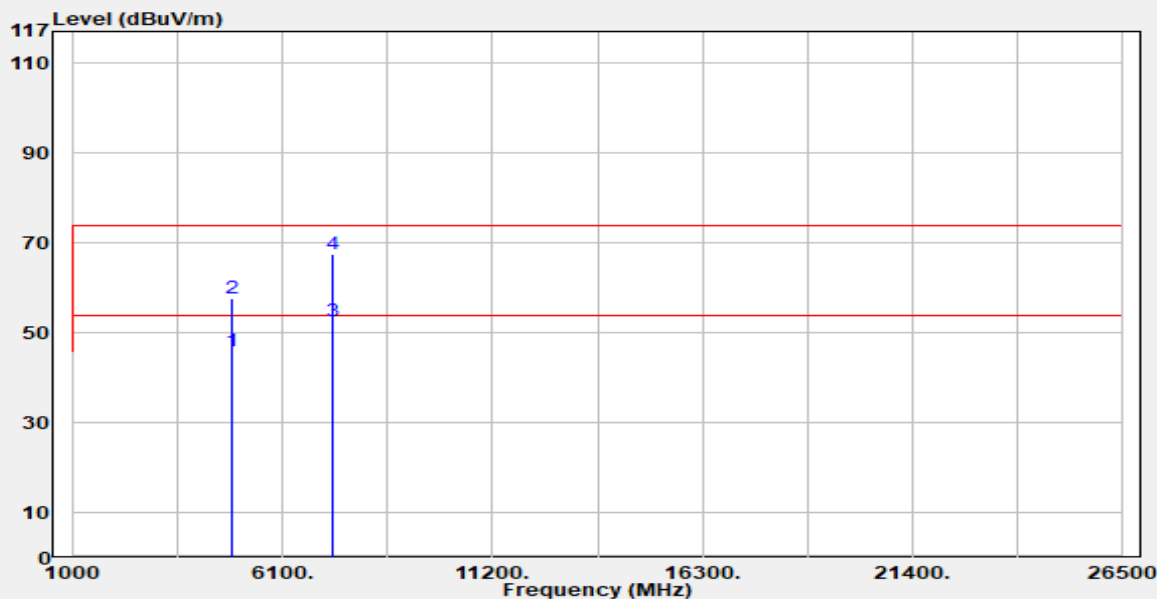
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Report Number :ER/2021/A0061  
Operation Mode :802.11n20  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00      | Average                      | 39.26                             | 6.83         | 46.09                  | 54.00                  | -7.91        |
| 4874.00      | Peak                         | 50.77                             | 6.83         | 57.60                  | 74.00                  | -16.40       |
| 7311.00      | Average                      | 37.55                             | 15.03        | 52.58                  | 54.00                  | -1.42        |
| 7311.00      | Peak                         | 52.40                             | 15.03        | 67.43                  | 74.00                  | -6.57        |

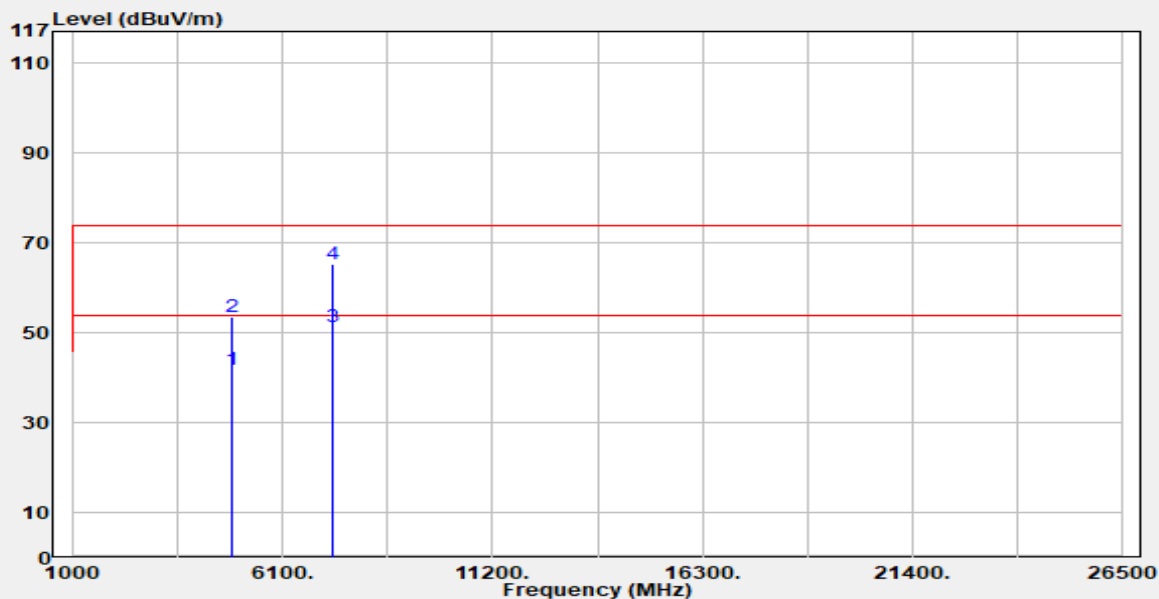
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Report Number :ER/2021/A0061  
Operation Mode :802.11n20  
Test Frequency :2437 MHz  
Test Mode :Tx CH Mid  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00      | Average                      | 34.94                             | 6.83         | 41.77                  | 54.00                  | -12.23       |
| 4874.00      | Peak                         | 46.82                             | 6.83         | 53.65                  | 74.00                  | -20.35       |
| 7311.00      | Average                      | 36.26                             | 15.03        | 51.29                  | 54.00                  | -2.71        |
| 7311.00      | Peak                         | 50.25                             | 15.03        | 65.28                  | 74.00                  | -8.72        |

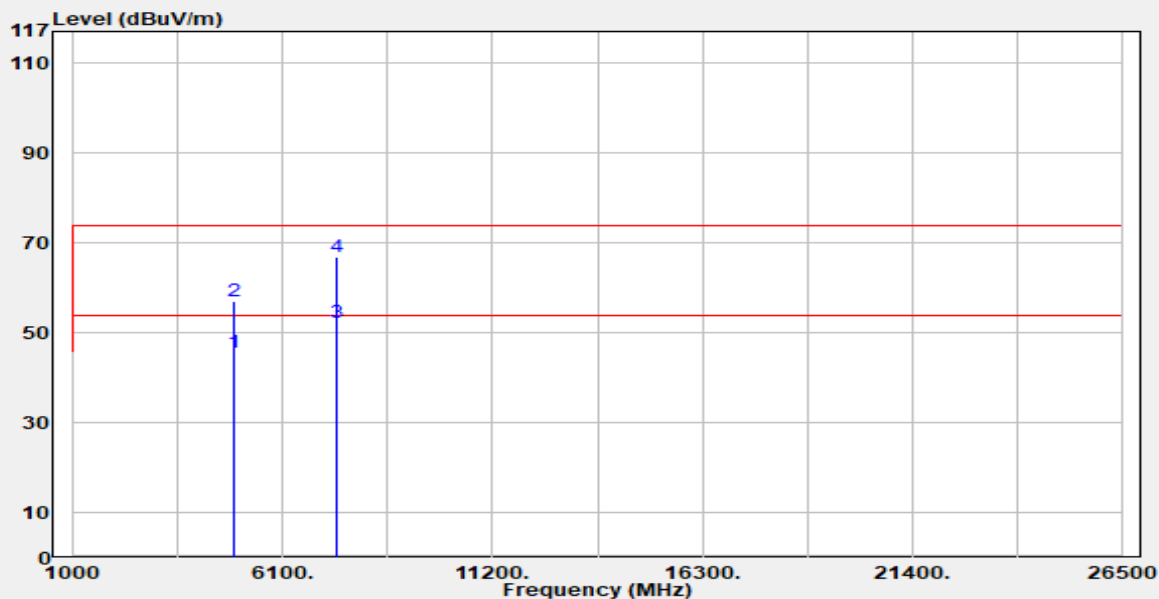
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Report Number :ER/2021/A0061  
Operation Mode :802.11n20  
Test Frequency :2462 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBUV | Factor<br>dB | Actual<br>FS<br>dBUV/m | Limit<br>@3m<br>dBUV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00      | Average                      | 38.76                             | 7.00         | 45.76                  | 54.00                  | -8.24        |
| 4924.00      | Peak                         | 50.13                             | 7.00         | 57.13                  | 74.00                  | -16.87       |
| 7386.00      | Average                      | 37.71                             | 14.64        | 52.35                  | 54.00                  | -1.65        |
| 7386.00      | Peak                         | 52.12                             | 14.64        | 66.76                  | 74.00                  | -7.24        |

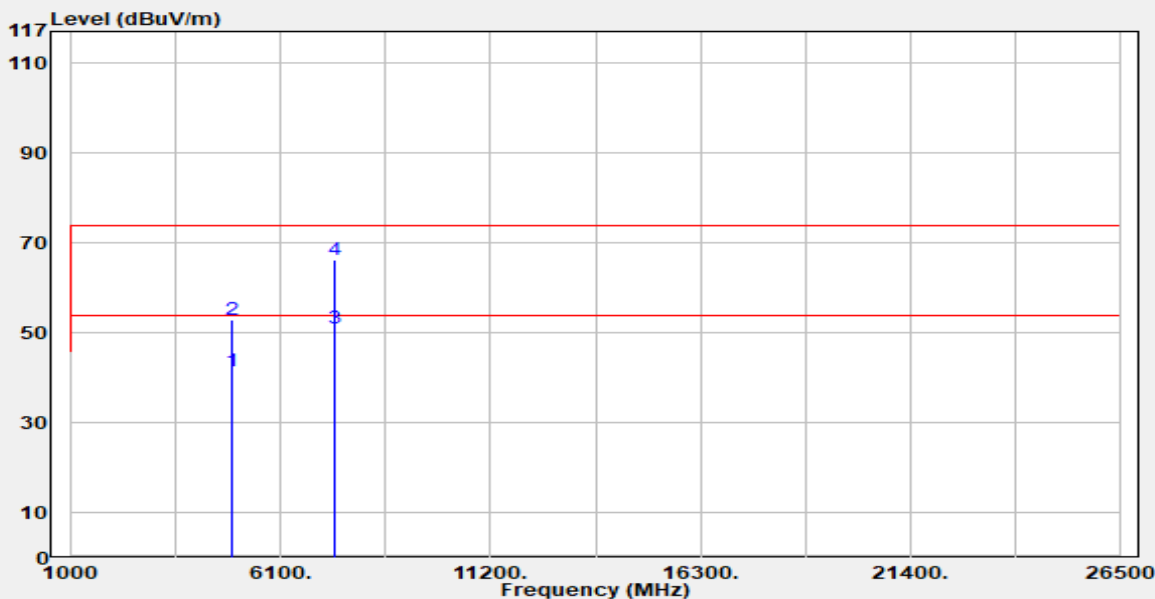
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Report Number :ER/2021/A0061  
Operation Mode :802.11n20  
Test Frequency :2462 MHz  
Test Mode :Tx CH High  
EUT Pol :H Plane

Test Site :SAC I Chamber  
Test Date :2021-11-02  
Temp./Humi. :25.5/65  
Antenna Pol. :HORIZONTAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00      | Average                      | 34.40                             | 7.00         | 41.40                  | 54.00                  | -12.60       |
| 4924.00      | Peak                         | 45.97                             | 7.00         | 52.97                  | 74.00                  | -21.03       |
| 7386.00      | Average                      | 36.54                             | 14.64        | 51.18                  | 54.00                  | -2.82        |
| 7386.00      | Peak                         | 51.51                             | 14.64        | 66.15                  | 74.00                  | -7.85        |

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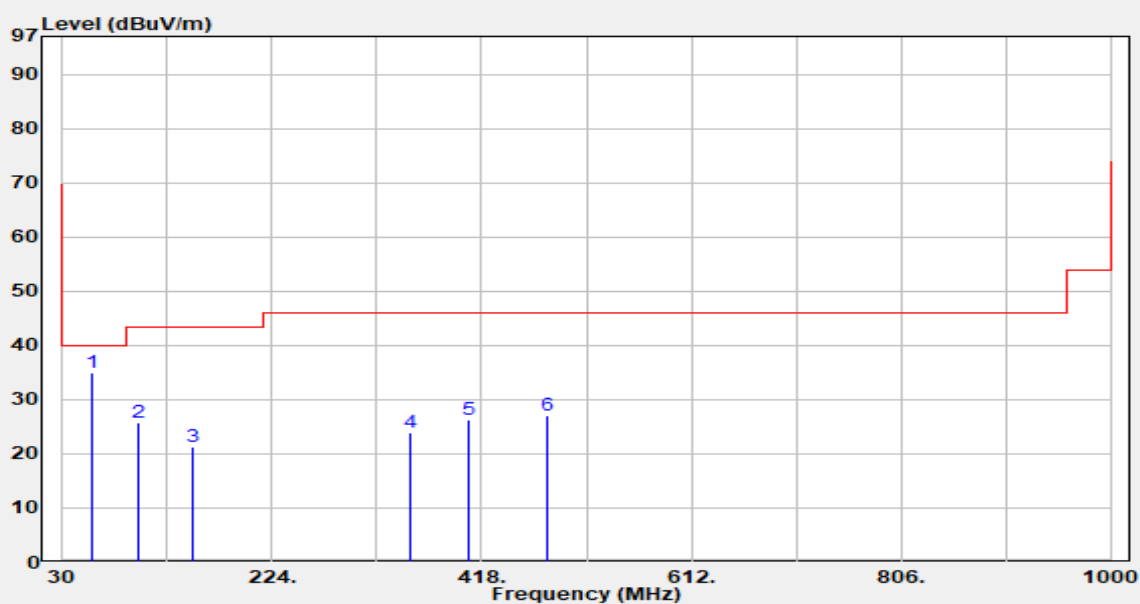
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## 13.6.3 接收機場強輻射

Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Rx CH Mid  
EUT Pol :H Plane

Test Site :SAC 1  
Test Date :2021-11-04  
Temp./Humi. :25.8/65  
Antenna Pol. :Vertical  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 57.48        | Peak                         | 52.70                             | -17.83       | 34.87                  | 40.00                  | -5.13        |
| 99.52        | Peak                         | 39.15                             | -13.50       | 25.65                  | 43.50                  | -17.85       |
| 151.25       | Peak                         | 34.01                             | -12.77       | 21.24                  | 43.50                  | -22.26       |
| 351.72       | Peak                         | 32.09                             | -8.08        | 24.01                  | 46.00                  | -21.99       |
| 405.07       | Peak                         | 32.96                             | -6.61        | 26.35                  | 46.00                  | -19.65       |
| 479.43       | Peak                         | 33.14                             | -5.95        | 27.18                  | 46.00                  | -18.82       |

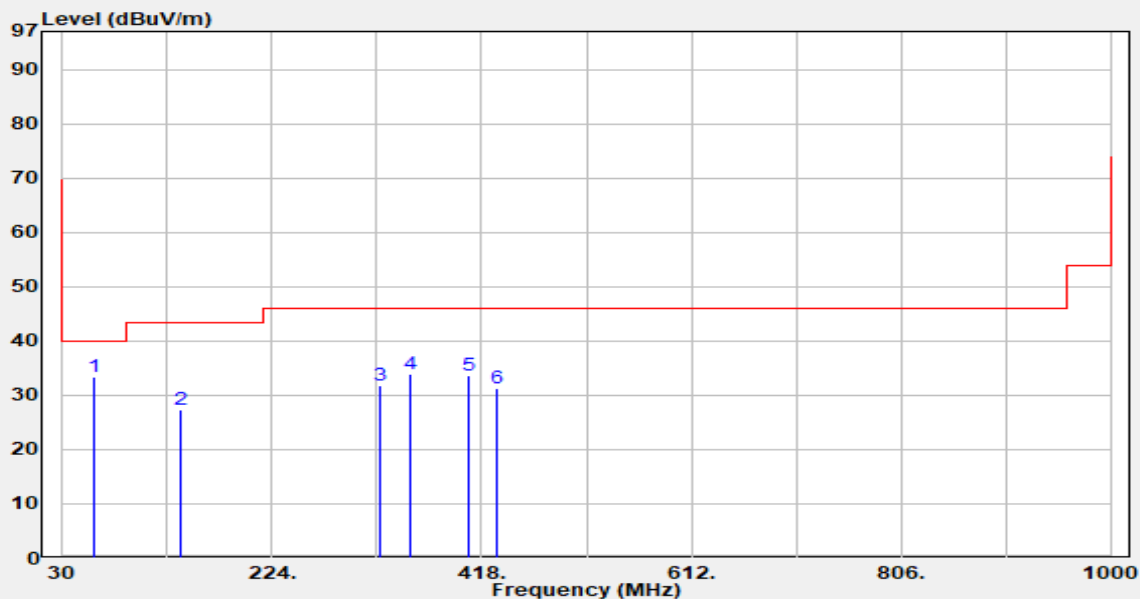
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Rx CH Mid  
EUT Pol :H Plane

Test Site :SAC 1  
Test Date :2021-11-04  
Temp./Humi. :25.8/65  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 59.10        | Peak                         | 51.56                             | -18.07       | 33.49                  | 40.00                  | -6.51        |
| 139.93       | Peak                         | 39.55                             | -12.22       | 27.32                  | 43.50                  | -16.18       |
| 324.23       | Peak                         | 40.60                             | -8.83        | 31.77                  | 46.00                  | -14.23       |
| 351.72       | Peak                         | 42.09                             | -8.08        | 34.02                  | 46.00                  | -11.98       |
| 405.07       | Peak                         | 40.35                             | -6.61        | 33.74                  | 46.00                  | -12.26       |
| 432.55       | Peak                         | 38.18                             | -6.77        | 31.40                  | 46.00                  | -14.60       |

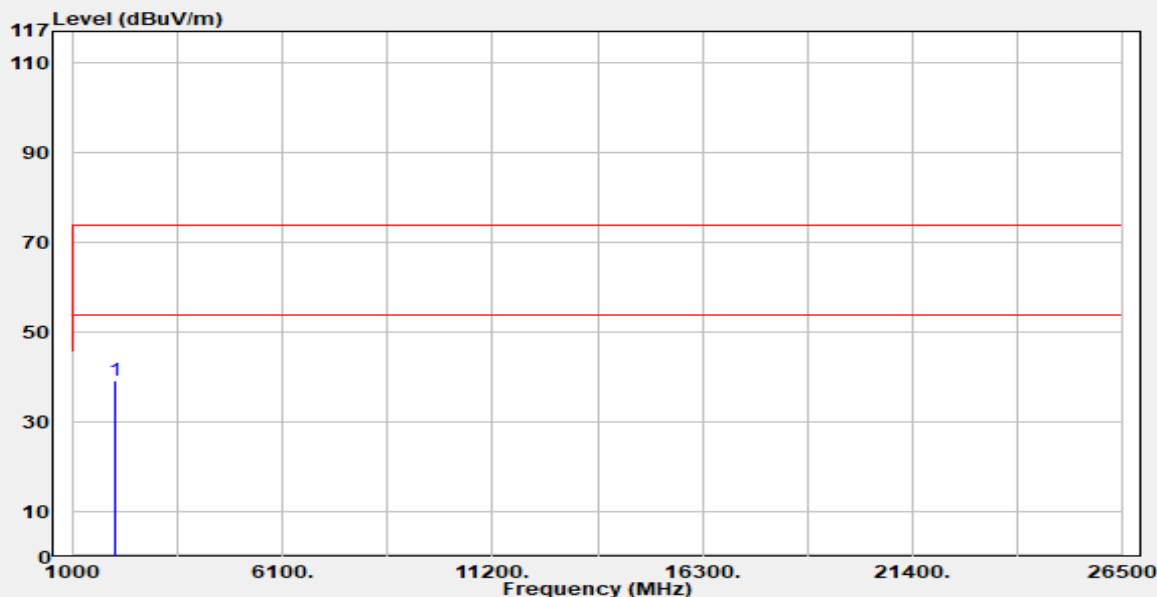
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Rx CH Mid  
EUT Pol :H Plane

Test Site :SAC 1  
Test Date :2021-11-04  
Temp./Humi. :25.8/65  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 1991.67      | Peak                         | 41.42                             | -2.22        | 39.19                  | 74.00                  | -34.81       |

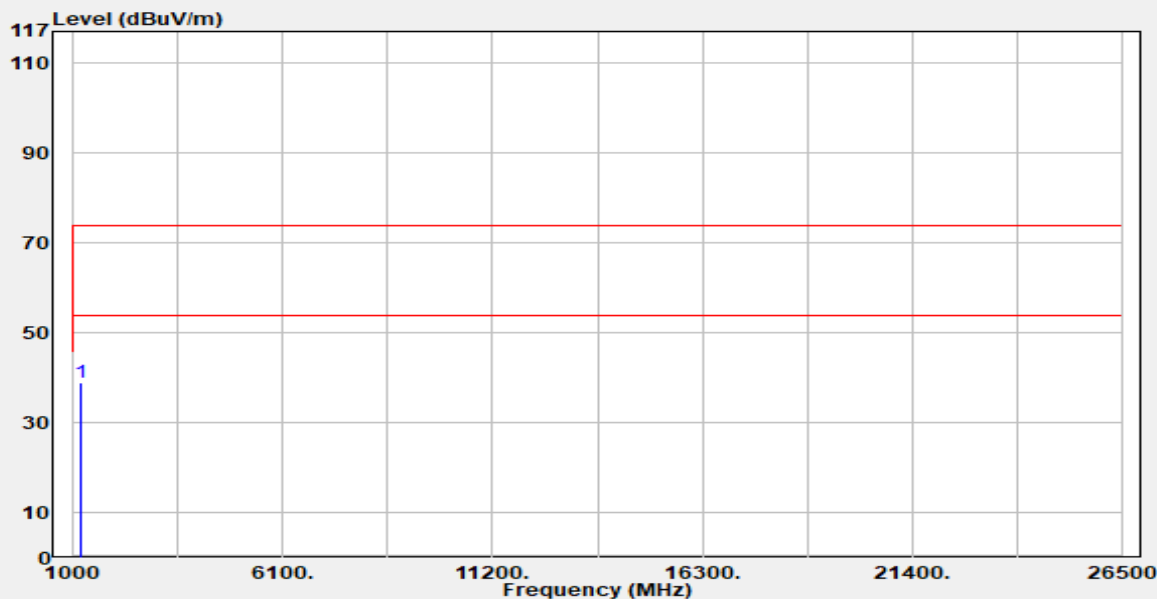
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Report Number :ER/2021/A0061  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Rx CH Mid  
EUT Pol :H Plane

Test Site :SAC 1  
Test Date :2021-11-04  
Temp./Humi. :25.8/65  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 1198.33      | Peak                         | 44.66                             | -5.78        | 38.88                  | 74.00                  | -35.12       |

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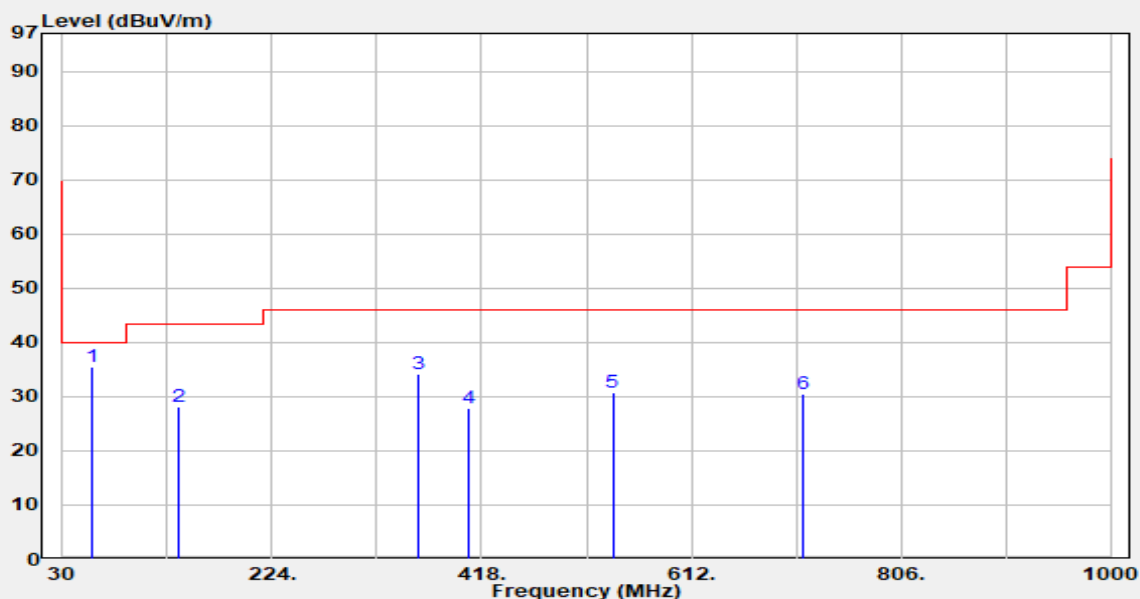
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### 13.6.4 Fully System

Report Number :ER/2021/A0061  
Operation Mode :System  
Test Frequency :System  
Test Mode :System  
EUT Pol :E2 Plane

Test Site :SAC 1  
Test Date :2021-11-09  
Temp./Humi. :24.7/46  
Antenna Pol. :Vertical  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 57.48        | Peak                         | 53.26                             | -17.83       | 35.43                  | 40.00                  | -4.57        |
| 136.70       | Peak                         | 40.18                             | -12.08       | 28.10                  | 43.50                  | -15.40       |
| 359.80       | Peak                         | 42.25                             | -7.98        | 34.27                  | 46.00                  | -11.73       |
| 405.07       | Peak                         | 34.55                             | -6.61        | 27.94                  | 46.00                  | -18.06       |
| 539.25       | Peak                         | 34.52                             | -3.81        | 30.71                  | 46.00                  | -15.29       |
| 715.47       | Peak                         | 34.07                             | -3.69        | 30.39                  | 46.00                  | -15.61       |

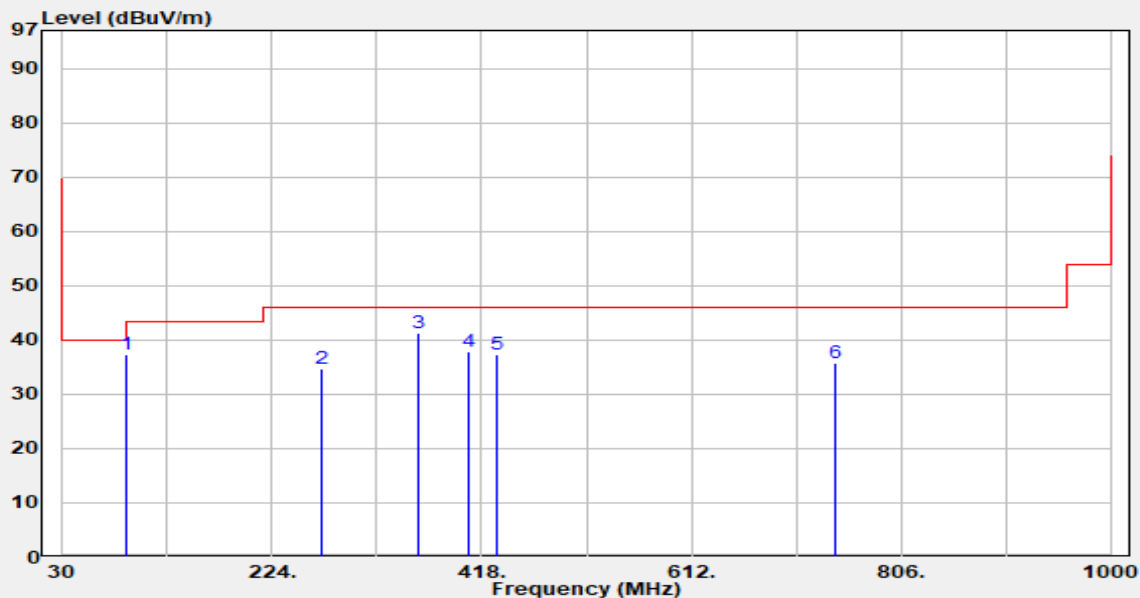
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Report Number :ER/2021/A0061  
Operation Mode :System  
Test Frequency :System  
Test Mode :System  
EUT Pol :E2 Plane

Test Site :SAC 1  
Test Date :2021-11-09  
Temp./Humi. :24.7/46  
Antenna Pol. :Horizontal  
Engineer :Neo Tsai



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 89.82        | QP                           | 52.40                             | -15.20       | 37.20                  | 43.50                  | -6.30        |
| 269.27       | Peak                         | 44.31                             | -9.66        | 34.65                  | 46.00                  | -11.35       |
| 359.80       | Peak                         | 49.13                             | -7.98        | 41.15                  | 46.00                  | -4.85        |
| 405.07       | Peak                         | 44.52                             | -6.61        | 37.90                  | 46.00                  | -8.10        |
| 432.55       | Peak                         | 44.11                             | -6.77        | 37.34                  | 46.00                  | -8.66        |
| 746.18       | Peak                         | 38.43                             | -2.80        | 35.62                  | 46.00                  | -10.38       |

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## 14 功率密度量測

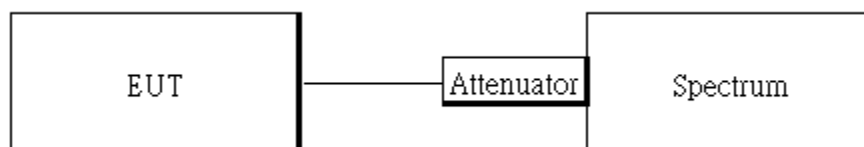
## 14.1 適用標準

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

## 14.2 量測儀器

| Conducted Emission Test Site: Conducted 2 |               |              |               |            |            |
|-------------------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY60242081    | 09/30/2021 | 09/29/2022 |
| Power Meter                               | Anritsu       | ML2496A      | 1804001       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726104       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726107       | 03/02/2021 | 03/01/2022 |
| DC Power Supply                           | Gwinstek      | SPS-3610     | GEV856750     | 08/04/2021 | 08/03/2022 |
| Attenuator                                | Mini-Circuit  | BW-S10W2+    | 2             | 12/16/2020 | 12/15/2021 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/16/2020 | 12/15/2021 |

## 14.3 測試配置



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#### 14.4 量測方法

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

#### 14.5 天線增益及輸出功率限值計算

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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## 14.6 量測結果

| POWER DENSITY 802.11b      |                   |                     |        |
|----------------------------|-------------------|---------------------|--------|
| Freq.<br>(MHz)             | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2412                       | -25.40            | 8.00                | PASS   |
| 2437                       | -24.07            | 8.00                | PASS   |
| 2462                       | -23.72            | 8.00                | PASS   |
| POWER DENSITY 802.11g      |                   |                     |        |
| Freq.<br>(MHz)             | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2412                       | -21.58            | 8.00                | PASS   |
| 2437                       | -21.25            | 8.00                | PASS   |
| 2462                       | -21.34            | 8.00                | PASS   |
| POWER DENSITY 802.11n HT20 |                   |                     |        |
| Freq.<br>(MHz)             | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Result |
| 2412                       | -21.42            | 8.00                | PASS   |
| 2437                       | -20.97            | 8.00                | PASS   |
| 2462                       | -20.89            | 8.00                | PASS   |

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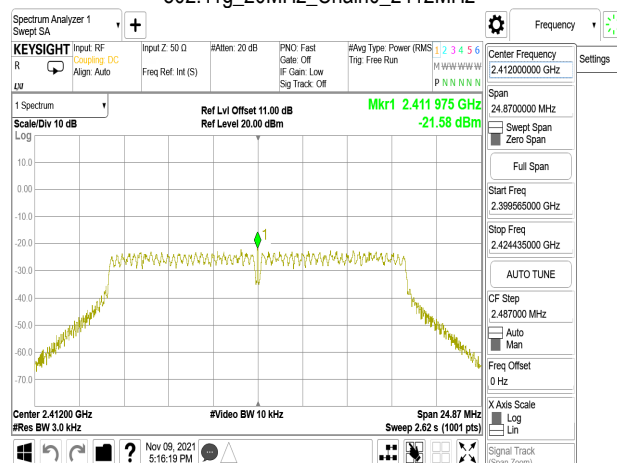
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802.11b\_20MHz\_Chain0\_2412MHz



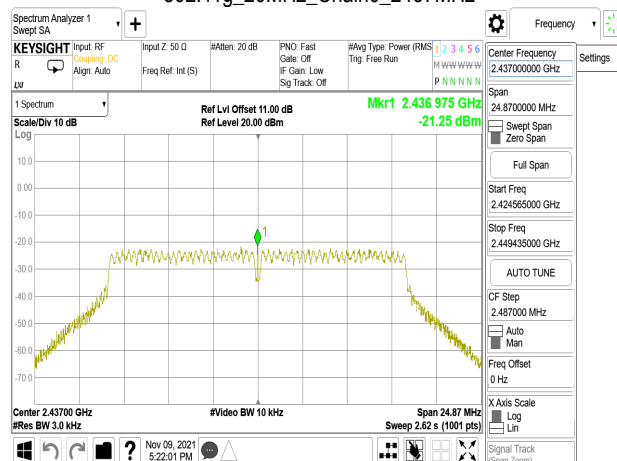
802.11g\_20MHz\_Chain0\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



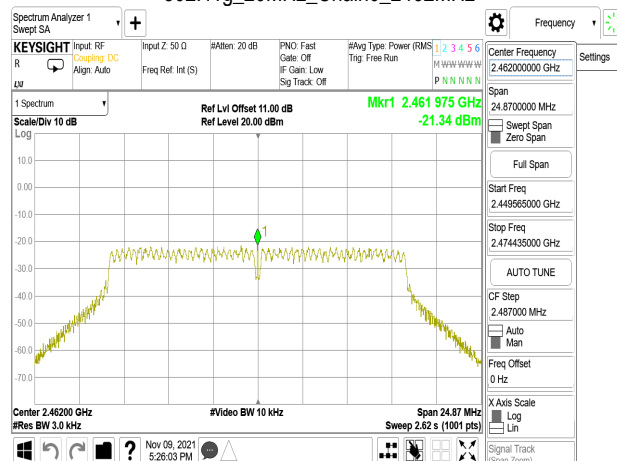
802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

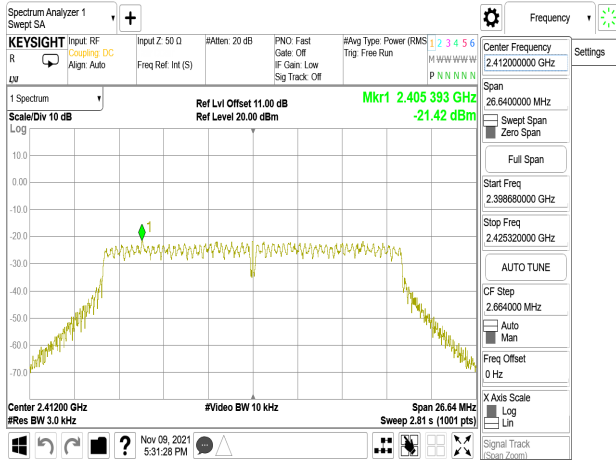


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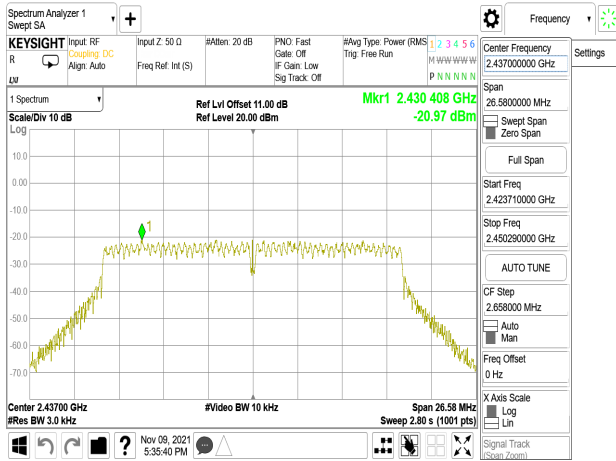
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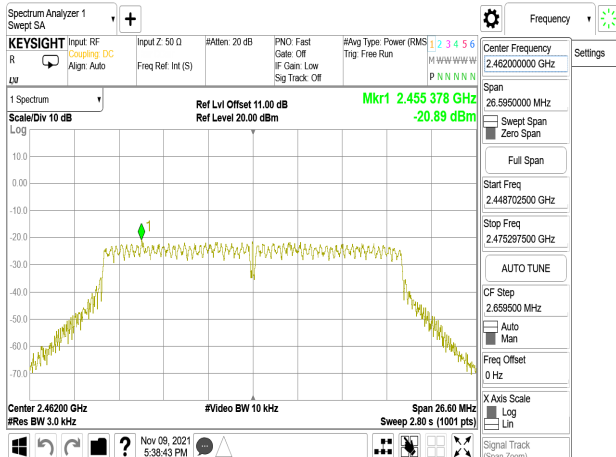
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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~ End of Report ~

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