

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



## CLASS II & IV PC REPORT

**Applicant:** Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City  
22181, Taiwan (R.O.C)

**Product Name:** 2TX 11ax (WiFi6) + BLE Combo Card

**Brand Name:** acer

**Model No.:** MT7921

**Model Difference:** N/A

**Report Number:** E2/2021/80019

**FCC ID** HLZMT7921

**IC:** 1754F-MT7921

**Issue Date:** October 7, 2021

**Date of Test:** August 12, 2021 ~ September 10, 2021

**Date of EUT Received:** August 13, 2021

Approved By Jazz Huang  
Jazz Huang

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISSED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/80019	00	Original	October 7, 2021	Ariel Chang

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# 1 GENERAL INFORMATION

## 1.1 Product Description

Product Name	Notebook Computer
Brand Name	<i>acer</i>
Model No. of FCC Host	N21Q5
Model No. of IC Host	CB514-2H,CB514-2HT
Model Difference	For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern.
Hardware Version	N/A
Software Version	N/A
EUT Series No.	N8AS2WW0011190E3B17600
Model No. of BT/WLAN Module	MT7921
Class II & Class IV Permissive change	2TX 11ax (WiFi6) + BLE Combo Card installed in Notebook Computer
Power Supply	11.25Vdc from Rechargeable Li-polymer Battery or 19Vdc from AC/DC Adapter

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## 1.2 RF Specification

### WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2472	13	25.23	DSSS
802.11g	2412~2472	13	29.44	OFDM
802.11ac20	2412~2472	13	29.06	OFDM
802.11ac40	2422~2462	9	28.89	OFDM
802.11ax20	2412~2472	13	29.23	OFDMA
802.11ax40	2422~2462	9	28.45	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM		
		1024 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA		
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 ac_20MHz:6.5 - 173.3Mbps		
		802.11 ac_40MHz:13.5 - 400Mbps		
		802.11 ax_20MHz:7.3 - 286.8Mbps		
		802.11 ax_40MHz:14.6 - 573.6Mbps		

### WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2472	13	25.23	27.50	DSSS
802.11g	2412~2472	13	29.44	26.33	OFDM
802.11ac20	2412~2472	13	29.06	26.08	OFDM
802.11ac40	2422~2462	9	28.89	24.29	OFDM
802.11ax20	2412~2472	13	29.23	26.31	OFDMA
802.11ax40	2422~2462	9	28.45	24.46	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM			
		1024 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA			
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 ac_20MHz:6.5 - 173.3Mbps			
		802.11 ac_40MHz:13.5 - 400Mbps			
		802.11 ax_20MHz:7.3 - 286.8Mbps			
		802.11 ax_40MHz:14.6 - 573.6Mbps			

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## 1.3 Antenna Designation

802.11 Wi-Fi						
Antenna Type	Supplier	Antenna Part No.	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	DQ6K15G5900(81EABK15.G59)	Main	2412~2472	2.80	V
		DQ6K15G5900(81EABK15.G59)	Aux	2412~2472	1.15	

## Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen, Issue 5 (Amendment 2, February 2021)

ANSI C63.10:2013

## 1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6	TW0028		
	Conduction C			
	SAC C			
	SAC D			
	SAC G			
	Conducted A			
	Conducted B			
	Conducted C			
	Conducted D			
	Conducted E			
	Conducted F			
	Conducted G			
<b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

## 1.6 Special Accessories

There are no special accessories used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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## 2.5 Test Configuration

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Configuration



## 2.6 Control Unit(s)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Adapter	N/A	N/A	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated Band Edge & Radiated Spurious Emission	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operatin Frequencies

Modulation of 20MHz nominal bandwidth

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462
12	2467
13	2472

Modulation of 40MHz nominal bandwidth

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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## 4.2 The Worst Test Modes and Channel Details

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 checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" 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.

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,2,6,10,11,12,13	DSSS	1	2TX
802.11g	1 to 13	1,2,6,10,11,12,13	OFDM	6	2TX
802.11ac (VHT20)	1 to 11	1,2,6,10,11,12,13	OFDM	MCS0	MIMO
802.11ac (VHT40)	3 to 9	3,4,6,8,9,10,11	OFDM	MCS0	MIMO
802.11ax (HE20)	1 to 13	1,2,6,10,11,12,13	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 11	3,4,6,8,9,10,11	OFDMA	MCS0	MIMO

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RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,2,6,10,11,12,13	DSSS	1	2TX
802.11g	1 to 13	1,2,6,10,11,12,13	OFDM	6	2TX
802.11ac (VHT20)	1 to 11	1,2,6,10,11,12,13	OFDM	MCS0	MIMO
802.11ac (VHT40)	3 to 9	3,4,6,8,9,10,11	OFDM	MCS0	MIMO
802.11ax (HE20)	1 to 13	1,2,6,10,11,12,13	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 11	3,4,6,8,9,10,11	OFDMA	MCS0	MIMO

**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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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Emission Bandwidth	+/- 1.53 Hz
The Maximum Output Power Measurement	+/- 1 dB
Peak Power Spectral Density Measurement	+/- 1.53 dB
Frequency Stability	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz
	+/-	4.93 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz
	+/-	4.45 dB	30MHz - 1000MHz
	+/-	4.81 dB	1GHz - 18GHz
	+/-	4.52 dB	18GHz - 40GHz

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 PEAK OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W .

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

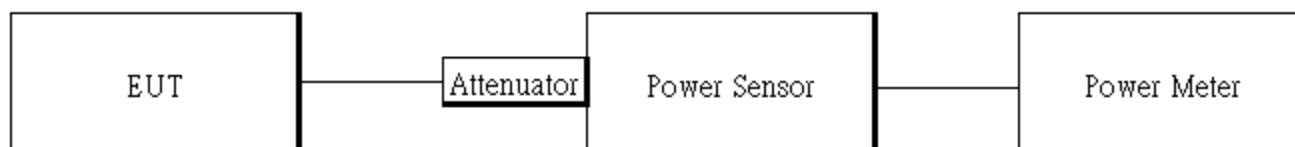
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

### 6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	08/12/2021	08/11/2022
Power Sensor	Anritsu	MA2411B	1315048	08/12/2021	08/11/2022
Power Sensor	Anritsu	MA2411B	1315049	08/12/2021	08/11/2022
Attenuator	Marvelous	WATT-218FS-10	RF18	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF23	11/19/2020	11/18/2021

### 6.3 Test Set-up

Power Meter:



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## 6.4 Measurement Procedure

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 power meter.

### Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

**\* Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

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## 6.5 Measurement Result

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16	22.08	30.00	PASS
2	2417	1	16	22.13	30.00	PASS
6	2437	1	16	22.18	30.00	PASS
10	2457	1	16	22.55	30.00	PASS
11	2462	1	16	22.41	30.00	PASS
12	2467	1	11.5	18.12	30.00	PASS
13	2472	1	5	11.60	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	16	19.34	30.00	PASS
2	2417	1	16	19.42	30.00	PASS
6	2437	1	16	19.55	30.00	PASS
10	2457	1	16	19.53	30.00	PASS
11	2462	1	16	19.49	30.00	PASS
12	2467	1	11.5	15.39	30.00	PASS
13	2472	1	5	9.03	30.00	PASS

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802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16	21.69	30.00	PASS
2	2417	1	16	21.97	30.00	PASS
6	2437	1	16	22.03	30.00	PASS
10	2457	1	15.5	21.83	30.00	PASS
11	2462	1	15.5	21.86	30.00	PASS
12	2467	1	11.5	17.83	30.00	PASS
13	2472	1	5.5	11.43	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16	19.03	30.00	PASS
2	2417	1	16	19.10	30.00	PASS
6	2437	1	16	19.09	30.00	PASS
10	2457	1	15.5	18.99	30.00	PASS
11	2462	1	15.5	19.06	30.00	PASS
12	2467	1	11.5	15.26	30.00	PASS
13	2472	1	5.5	8.98	30.00	PASS

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802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	15.5	22.22	22.16	25.20	30.00	PASS
2	2417	1	15.5	22.21	22.18	25.21	30.00	PASS
6	2437	1	15.5	22.23	22.21	<b>25.23</b>	30.00	PASS
10	2457	1	15	22.13	21.99	25.07	30.00	PASS
11	2462	1	15	22.15	22.03	25.10	30.00	PASS
12	2467	1	11.5	17.88	17.76	20.83	30.00	PASS
13	2472	1	5	11.90	11.87	14.90	30.00	PASS
802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	15.5	19.40	19.18	22.32	30.00	PASS
2	2417	1	15.5	19.45	19.24	22.37	30.00	PASS
6	2437	1	15.5	19.51	19.39	<b>22.48</b>	30.00	PASS
10	2457	1	15	19.42	19.16	22.32	30.00	PASS
11	2462	1	15	19.44	19.17	22.33	30.00	PASS
12	2467	1	11.5	15.65	15.39	18.55	30.00	PASS
13	2472	1	5	9.24	9.10	12.20	30.00	PASS

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802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	13.5	19.62	30.00	PASS
2	2417	6	14.5	20.59	30.00	PASS
6	2437	6	14.5	20.60	30.00	PASS
10	2457	6	14.5	20.62	30.00	PASS
11	2462	6	13.5	19.57	30.00	PASS
12	2467	6	8.8	14.64	30.00	PASS
13	2472	6	3.5	9.51	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	13.5	17.14	30.00	PASS
2	2417	6	14.5	18.09	30.00	PASS
6	2437	6	14.5	18.10	30.00	PASS
10	2457	6	14.5	18.14	30.00	PASS
11	2462	6	13.5	17.10	30.00	PASS
12	2467	6	8.8	12.09	30.00	PASS
13	2472	6	3.5	6.86	30.00	PASS

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802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14	20.13	30.00	PASS
2	2417	6	15	21.28	30.00	PASS
6	2437	6	15	21.37	30.00	PASS
10	2457	6	14.5	21.19	30.00	PASS
11	2462	6	13.5	20.08	30.00	PASS
12	2467	6	8.5	15.27	30.00	PASS
13	2472	6	3.5	10.10	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14	17.63	30.00	PASS
2	2417	6	15	18.40	30.00	PASS
6	2437	6	15	18.47	30.00	PASS
10	2457	6	14.5	18.24	30.00	PASS
11	2462	6	13.5	17.19	30.00	PASS
12	2467	6	8.5	12.31	30.00	PASS
13	2472	6	3.5	7.31	30.00	PASS

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802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	14.5	26.58	26.14	29.38	30.00	PASS
2	2417	6	15.5	26.54	26.31	<b>29.44</b>	30.00	PASS
6	2437	6	15	26.23	25.71	28.99	30.00	PASS
10	2457	6	15	26.34	25.92	29.15	30.00	PASS
11	2462	6	13.5	25.01	24.21	27.64	30.00	PASS
12	2467	6	8.5	22.10	21.63	24.88	30.00	PASS
13	2472	6	3.5	17.96	17.24	20.63	30.00	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	14.5	17.50	17.03	20.30	30.00	PASS
2	2417	6	15.5	18.54	18.01	<b>21.31</b>	30.00	PASS
6	2437	6	15	18.53	17.86	21.23	30.00	PASS
10	2457	6	15	18.56	17.88	21.26	30.00	PASS
11	2462	6	13.5	17.28	16.69	20.02	30.00	PASS
12	2467	6	8.5	12.29	11.80	15.08	30.00	PASS
13	2472	6	3.5	7.38	6.75	10.10	30.00	PASS

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802.11ac_VHT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	26.10	30.00	PASS
2	2417	MCS0	17.5	26.20	30.00	PASS
6	2437	MCS0	18	26.25	30.00	PASS
10	2457	MCS0	17	26.21	30.00	PASS
11	2462	MCS0	16	25.92	30.00	PASS
12	2467	MCS0	9.5	20.52	30.00	PASS
13	2472	MCS0	4.5	16.08	30.00	PASS
802.11ac_VHT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	16.51	30.00	PASS
2	2417	MCS0	17.5	17.50	30.00	PASS
6	2437	MCS0	18	17.91	30.00	PASS
10	2457	MCS0	17	17.32	30.00	PASS
11	2462	MCS0	16	16.25	30.00	PASS
12	2467	MCS0	9.5	10.19	30.00	PASS
13	2472	MCS0	4.5	5.42	30.00	PASS

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802.11ac_VHT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	26.21	30.00	PASS
2	2417	MCS0	17	26.25	30.00	PASS
6	2437	MCS0	17.5	26.29	30.00	PASS
10	2457	MCS0	17	26.28	30.00	PASS
11	2462	MCS0	16	26.14	30.00	PASS
12	2467	MCS0	9.5	20.90	30.00	PASS
13	2472	MCS0	4.5	16.83	30.00	PASS
802.11ac_VHT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	16.85	30.00	PASS
2	2417	MCS0	17	17.57	30.00	PASS
6	2437	MCS0	17.5	18.21	30.00	PASS
10	2457	MCS0	17	17.59	30.00	PASS
11	2462	MCS0	16	16.59	30.00	PASS
12	2467	MCS0	9.5	10.48	30.00	PASS
13	2472	MCS0	4.5	5.92	30.00	PASS

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## 802.11ac\_VHT20M MIMO

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	14.5	26.08	25.81	28.96	30.00	PASS
2	2417	MCS8	15	26.28	25.81	<b>29.06</b>	30.00	PASS
6	2437	MCS8	15.5	26.11	25.84	28.99	30.00	PASS
10	2457	MCS8	14.5	25.70	25.24	28.49	30.00	PASS
11	2462	MCS8	13.5	24.32	24.17	27.26	30.00	PASS
12	2467	MCS8	7.5	19.70	19.24	22.49	30.00	PASS
13	2472	MCS8	3	16.14	15.54	18.86	30.00	PASS

## 802.11ac\_VHT20M MIMO

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	14.5	16.60	16.41	19.72	30.00	PASS
2	2417	MCS8	15	17.38	17.28	20.54	30.00	PASS
6	2437	MCS8	15.5	17.92	17.77	<b>21.06</b>	30.00	PASS
10	2457	MCS8	14.5	17.32	17.15	20.45	30.00	PASS
11	2462	MCS8	13.5	16.33	16.13	19.44	30.00	PASS
12	2467	MCS8	7.5	10.23	10.00	13.33	30.00	PASS
13	2472	MCS8	3	5.58	5.38	8.69	30.00	PASS

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802.11ac_VHT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.5	25.77	30.00	PASS
4	2427	MCS0	17	25.97	30.00	PASS
6	2437	MCS0	18	26.26	30.00	PASS
8	2447	MCS0	17	26.15	30.00	PASS
9	2452	MCS0	16.5	26.06	30.00	PASS
10	2457	MCS0	9.5	19.59	30.00	PASS
11	2462	MCS0	7.5	17.31	30.00	PASS
802.11ac_VHT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.5	14.99	30.00	PASS
4	2427	MCS0	17	15.57	30.00	PASS
6	2437	MCS0	18	16.15	30.00	PASS
8	2447	MCS0	17	15.46	30.00	PASS
9	2452	MCS0	16.5	15.04	30.00	PASS
10	2457	MCS0	9.5	8.45	30.00	PASS
11	2462	MCS0	7.5	6.41	30.00	PASS

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802.11ac_VHT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.5	25.87	30.00	PASS
4	2427	MCS0	17	25.63	30.00	PASS
6	2437	MCS0	17.5	26.08	30.00	PASS
8	2447	MCS0	16.5	26.12	30.00	PASS
9	2452	MCS0	16	26.05	30.00	PASS
10	2457	MCS0	9.5	21.02	30.00	PASS
11	2462	MCS0	7.5	18.96	30.00	PASS
802.11ac_VHT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.5	15.34	30.00	PASS
4	2427	MCS0	17	15.76	30.00	PASS
6	2437	MCS0	17.5	16.39	30.00	PASS
8	2447	MCS0	16.5	15.71	30.00	PASS
9	2452	MCS0	16	15.13	30.00	PASS
10	2457	MCS0	9.5	8.77	30.00	PASS
11	2462	MCS0	7.5	6.82	30.00	PASS

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802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	25.26	24.99	28.14	30.00	PASS
4	2427	MCS8	14	25.68	25.52	28.61	30.00	PASS
6	2437	MCS8	14.5	26.11	25.64	<b>28.89</b>	30.00	PASS
8	2447	MCS8	13.5	25.56	25.30	28.44	30.00	PASS
9	2452	MCS8	13	25.00	24.89	27.96	30.00	PASS
10	2457	MCS8	6.5	18.81	18.61	21.72	30.00	PASS
11	2462	MCS8	4.5	17.09	17.00	20.06	30.00	PASS
802.11ac_VHT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	13.5	14.80	14.61	18.14	30.00	PASS
4	2427	MCS8	14	15.28	15.16	18.65	30.00	PASS
6	2437	MCS8	14.5	15.99	15.68	<b>19.27</b>	30.00	PASS
8	2447	MCS8	13.5	15.23	15.06	18.58	30.00	PASS
9	2452	MCS8	13	14.70	14.49	18.03	30.00	PASS
10	2457	MCS8	6.5	8.22	8.13	11.61	30.00	PASS
11	2462	MCS8	4.5	6.22	6.13	9.61	30.00	PASS

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802.11ax_HE20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	14.5	25.13	30.00	PASS
2	2417	MCS0	full	15.5	26.32	30.00	PASS
6	2437	MCS0	full	15	26.52	30.00	PASS
10	2457	MCS0	full	13	24.65	30.00	PASS
11	2462	MCS0	full	14	25.64	30.00	PASS
12	2467	MCS0	full	7.5	18.84	30.00	PASS
13	2472	MCS0	full	3	16.84	30.00	PASS
802.11ax_HE20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	14.5	16.67	30.00	PASS
2	2417	MCS0	full	15.5	17.70	30.00	PASS
6	2437	MCS0	full	15	17.90	30.00	PASS
10	2457	MCS0	full	13	15.52	30.00	PASS
11	2462	MCS0	full	14	16.57	30.00	PASS
12	2467	MCS0	full	7.5	10.34	30.00	PASS
13	2472	MCS0	full	3	5.68	30.00	PASS

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802.11ax_HE20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	14.5	25.36	30.00	PASS
2	2417	MCS0	full	15.5	26.68	30.00	PASS
6	2437	MCS0	full	16	26.93	30.00	PASS
10	2457	MCS0	full	14.5	24.85	30.00	PASS
11	2462	MCS0	full	13.5	26.10	30.00	PASS
12	2467	MCS0	full	7.5	19.21	30.00	PASS
13	2472	MCS0	full	3	17.63	30.00	PASS
802.11ax_HE20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	14.5	17.04	30.00	PASS
2	2417	MCS0	full	15.5	17.92	30.00	PASS
6	2437	MCS0	full	16	18.46	30.00	PASS
10	2457	MCS0	full	14.5	17.75	30.00	PASS
11	2462	MCS0	full	13.5	16.72	30.00	PASS
12	2467	MCS0	full	7.5	10.69	30.00	PASS
13	2472	MCS0	full	3	6.15	30.00	PASS

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## 802.11ax\_HE20M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	13.5	25.99	25.08	28.57	30.00	PASS
2	2417	MCS0	full	15.5	26.31	26.13	29.23	30.00	PASS
6	2437	MCS0	full	16	26.28	26.10	29.20	30.00	PASS
10	2457	MCS0	full	15	26.02	25.44	28.75	30.00	PASS
11	2462	MCS0	full	14	25.13	24.21	27.70	30.00	PASS
12	2467	MCS0	full	7.5	20.41	19.67	23.07	30.00	PASS
13	2472	MCS0	full	2.5	16.70	16.33	19.53	30.00	PASS

## 802.11ax\_HE20M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	13.5	17.19	16.61	19.96	30.00	PASS
2	2417	MCS0	full	15.5	17.99	17.55	20.82	30.00	PASS
6	2437	MCS0	full	16	18.46	18.01	21.29	30.00	PASS
10	2457	MCS0	full	15	17.96	17.36	20.72	30.00	PASS
11	2462	MCS0	full	14	17.02	16.32	19.73	30.00	PASS
12	2467	MCS0	full	7.5	10.73	10.36	13.60	30.00	PASS
13	2472	MCS0	full	2.5	5.96	5.57	8.82	30.00	PASS

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802.11ax_HE40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	14	24.51	30.00	PASS
4	2427	MCS0	full	14.5	24.36	30.00	PASS
6	2437	MCS0	full	15	25.21	30.00	PASS
8	2447	MCS0	full	14	24.63	30.00	PASS
9	2452	MCS0	full	13.5	23.98	30.00	PASS
10	2457	MCS0	full	6.5	19.11	30.00	PASS
11	2462	MCS0	full	4.5	17.12	30.00	PASS
802.11ax_HE40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	14	15.30	30.00	PASS
4	2427	MCS0	full	14.5	15.84	30.00	PASS
6	2437	MCS0	full	15	16.34	30.00	PASS
8	2447	MCS0	full	14	15.73	30.00	PASS
9	2452	MCS0	full	13.5	15.22	30.00	PASS
10	2457	MCS0	full	6.5	8.47	30.00	PASS
11	2462	MCS0	full	4.5	6.57	30.00	PASS

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802.11ax_HE40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	13.5	24.60	30.00	PASS
4	2427	MCS0	full	14	24.72	30.00	PASS
6	2437	MCS0	full	14.5	25.51	30.00	PASS
8	2447	MCS0	full	13.5	24.86	30.00	PASS
9	2452	MCS0	full	13	24.17	30.00	PASS
10	2457	MCS0	full	6.5	19.21	30.00	PASS
11	2462	MCS0	full	4.5	17.47	30.00	PASS
802.11ax_HE40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	13.5	15.49	30.00	PASS
4	2427	MCS0	full	14	15.94	30.00	PASS
6	2437	MCS0	full	14.5	16.49	30.00	PASS
8	2447	MCS0	full	13.5	15.78	30.00	PASS
9	2452	MCS0	full	13	15.28	30.00	PASS
10	2457	MCS0	full	6.5	8.96	30.00	PASS
11	2462	MCS0	full	4.5	7.04	30.00	PASS

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802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	14	25.48	24.74	28.14	30.00	PASS
4	2427	MCS0	full	14	24.92	23.90	27.45	30.00	PASS
6	2437	MCS0	full	15	25.89	24.93	<b>28.45</b>	30.00	PASS
8	2447	MCS0	full	14	25.55	24.39	28.02	30.00	PASS
9	2452	MCS0	full	13.5	25.13	24.05	27.63	30.00	PASS
10	2457	MCS0	full	6.5	19.03	18.55	21.81	30.00	PASS
11	2462	MCS0	full	4.5	17.07	16.62	19.86	30.00	PASS
802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	14	15.61	15.20	18.46	30.00	PASS
4	2427	MCS0	full	14	15.89	15.41	18.70	30.00	PASS
6	2437	MCS0	full	15	16.57	16.21	<b>19.44</b>	30.00	PASS
8	2447	MCS0	full	14	16.09	15.52	18.86	30.00	PASS
9	2452	MCS0	full	13.5	15.61	14.99	18.36	30.00	PASS
10	2457	MCS0	full	6.5	8.92	8.50	11.76	30.00	PASS
11	2462	MCS0	full	4.5	7.06	6.55	9.86	30.00	PASS

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## 802.11b Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	19.34	2.80	22.14	36	PASS
2	2417	1	19.42	2.80	22.22	36	PASS
6	2437	1	19.55	2.80	22.35	36	PASS
10	2457	1	19.53	2.80	22.33	36	PASS
11	2462	1	19.49	2.80	22.29	36	PASS
12	2467	1	15.39	2.80	18.19	36	PASS
13	2472	1	9.03	2.80	11.83	36	PASS

## 802.11b Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	19.03	1.15	20.18	36	PASS
2	2417	1	19.10	1.15	20.25	36	PASS
6	2437	1	19.09	1.15	20.24	36	PASS
10	2457	1	18.99	1.15	20.14	36	PASS
11	2462	1	19.06	1.15	20.21	36	PASS
12	2467	1	15.26	1.15	16.41	36	PASS
13	2472	1	8.98	1.15	10.13	36	PASS

## 802.11b\_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	19.40	19.18	22.32	5.02	27.34	36	PASS
2	2417	1	19.45	19.24	22.37	5.02	27.39	36	PASS
6	2437	1	19.51	19.39	22.48	5.02	<b>27.50</b>	36	PASS
10	2457	1	19.42	19.16	22.32	5.02	27.34	36	PASS
11	2462	1	19.44	19.17	22.33	5.02	27.35	36	PASS
12	2467	1	15.65	15.39	18.55	5.02	23.57	36	PASS
13	2472	1	9.24	9.10	12.20	5.02	17.22	36	PASS

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## 802.11g Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	17.14	2.80	19.94	36	PASS
2	2417	6	18.09	2.80	20.89	36	PASS
6	2437	6	18.10	2.80	20.90	36	PASS
10	2457	6	18.14	2.80	20.94	36	PASS
11	2462	6	17.10	2.80	19.90	36	PASS
12	2467	6	12.09	2.80	14.89	36	PASS
13	2472	6	6.86	2.80	9.66	36	PASS

## 802.11g Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	17.63	1.15	18.78	36	PASS
2	2417	6	18.40	1.15	19.55	36	PASS
6	2437	6	18.47	1.15	19.62	36	PASS
10	2457	6	18.24	1.15	19.39	36	PASS
11	2462	6	17.19	1.15	18.34	36	PASS
12	2467	6	12.31	1.15	13.46	36	PASS
13	2472	6	7.31	1.15	8.46	36	PASS

## 802.11g\_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	17.50	17.03	20.30	5.02	25.32	36	PASS
2	2417	6	18.54	18.01	21.31	5.02	<b>26.33</b>	36	PASS
6	2437	6	18.53	17.86	21.23	5.02	26.25	36	PASS
10	2457	6	18.56	17.88	21.26	5.02	26.28	36	PASS
11	2462	6	17.28	16.69	20.02	5.02	25.04	36	PASS
12	2467	6	12.29	11.80	15.08	5.02	20.10	36	PASS
13	2472	6	7.38	6.75	10.10	5.02	15.12	36	PASS

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## 802.11ac\_VHT20M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.51	2.80	19.31	36	PASS
2	2417	MCS0	17.50	2.80	20.30	36	PASS
6	2437	MCS0	17.91	2.80	20.71	36	PASS
10	2457	MCS0	17.32	2.80	20.12	36	PASS
11	2462	MCS0	16.25	2.80	19.05	36	PASS
12	2467	MCS0	10.19	2.80	12.99	36	PASS
13	2472	MCS0	5.42	2.80	8.22	36	PASS

## 802.11ac\_VHT20M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.85	1.15	18.00	36	PASS
2	2417	MCS0	17.57	1.15	18.72	36	PASS
6	2437	MCS0	18.21	1.15	19.36	36	PASS
10	2457	MCS0	17.59	1.15	18.74	36	PASS
11	2462	MCS0	16.59	1.15	17.74	36	PASS
12	2467	MCS0	10.48	1.15	11.63	36	PASS
13	2472	MCS0	5.92	1.15	7.07	36	PASS

## 802.11ac\_VHT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	16.60	16.41	19.72	5.02	24.74	36	PASS
2	2417	MCS8	17.38	17.28	20.54	5.02	25.56	36	PASS
6	2437	MCS8	17.92	17.77	21.06	5.02	<b>26.08</b>	36	PASS
10	2457	MCS8	17.32	17.15	20.45	5.02	25.47	36	PASS
11	2462	MCS8	16.33	16.13	19.44	5.02	24.46	36	PASS
12	2467	MCS8	10.23	10.00	13.33	5.02	18.35	36	PASS
13	2472	MCS8	5.58	5.38	8.69	5.02	13.71	36	PASS

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## 802.11ac\_VHT40M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14.99	2.80	17.79	36	PASS
4	2427	MCS0	15.57	2.80	18.37	36	PASS
6	2437	MCS0	16.15	2.80	18.95	36	PASS
8	2447	MCS0	15.46	2.80	18.26	36	PASS
9	2452	MCS0	15.04	2.80	17.84	36	PASS
10	2457	MCS0	8.45	2.80	11.25	36	PASS
11	2462	MCS0	6.41	2.80	9.21	36	PASS

## 802.11ac\_VHT40M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.34	1.15	16.49	36	PASS
4	2427	MCS0	15.76	1.15	16.91	36	PASS
6	2437	MCS0	16.39	1.15	17.54	36	PASS
8	2447	MCS0	15.71	1.15	16.86	36	PASS
9	2452	MCS0	15.13	1.15	16.28	36	PASS
10	2457	MCS0	8.77	1.15	9.92	36	PASS
11	2462	MCS0	6.82	1.15	7.97	36	PASS

## 802.11ac\_VHT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	14.80	14.61	18.14	5.02	23.16	36	PASS
4	2427	MCS8	15.28	15.16	18.65	5.02	23.67	36	PASS
6	2437	MCS8	15.99	15.68	19.27	5.02	<b>24.29</b>	36	PASS
8	2447	MCS8	15.23	15.06	18.58	5.02	23.60	36	PASS
9	2452	MCS8	14.70	14.49	18.03	5.02	23.05	36	PASS
10	2457	MCS8	8.22	8.13	11.61	5.02	16.63	36	PASS
11	2462	MCS8	6.22	6.13	9.61	5.02	14.63	36	PASS

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## 802.11ax\_HE20M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	16.67	2.80	19.47	36	PASS
2	2417	MCS0	full	17.70	2.80	20.50	36	PASS
6	2437	MCS0	full	17.90	2.80	20.70	36	PASS
10	2457	MCS0	full	15.52	2.80	18.32	36	PASS
11	2462	MCS0	full	16.57	2.80	19.37	36	PASS
12	2467	MCS0	full	10.34	2.80	13.14	36	PASS
13	2472	MCS0	full	5.68	2.80	8.48	36	PASS

## 802.11ax\_HE20M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	17.04	1.15	18.19	36	PASS
2	2417	MCS0	full	17.92	1.15	19.07	36	PASS
6	2437	MCS0	full	18.46	1.15	19.61	36	PASS
10	2457	MCS0	full	17.75	1.15	18.90	36	PASS
11	2462	MCS0	full	16.72	1.15	17.87	36	PASS
12	2467	MCS0	full	10.69	1.15	11.84	36	PASS
13	2472	MCS0	full	6.15	1.15	7.30	36	PASS

## 802.11ax\_HE20M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
1	2412	MCS0	full	17.19	16.61	19.96	5.02	24.98	36	PASS
2	2417	MCS0	full	17.99	17.55	20.82	5.02	25.84	36	PASS
6	2437	MCS0	full	18.46	18.01	21.29	5.02	<b>26.31</b>	36	PASS
10	2457	MCS0	full	17.96	17.36	20.72	5.02	25.74	36	PASS
11	2462	MCS0	full	17.02	16.32	19.73	5.02	24.75	36	PASS
12	2467	MCS0	full	10.73	10.36	13.60	5.02	18.62	36	PASS
13	2472	MCS0	full	5.96	5.57	8.82	5.02	13.84	36	PASS

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## 802.11ax\_HE40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	15.30	2.80	18.10	36	PASS
4	2427	MCS0	full	15.84	2.80	18.64	36	PASS
6	2437	MCS0	full	16.34	2.80	19.14	36	PASS
8	2447	MCS0	full	15.73	2.80	18.53	36	PASS
9	2452	MCS0	full	15.22	2.80	18.02	36	PASS
10	2457	MCS0	full	8.47	2.80	11.27	36	PASS
11	2462	MCS0	full	6.57	2.80	9.37	36	PASS

## 802.11ax\_HE40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	15.49	1.15	16.64	36	PASS
4	2427	MCS0	full	15.94	1.15	17.09	36	PASS
6	2437	MCS0	full	16.49	1.15	17.64	36	PASS
8	2447	MCS0	full	15.78	1.15	16.93	36	PASS
9	2452	MCS0	full	15.28	1.15	16.43	36	PASS
10	2457	MCS0	full	8.96	1.15	10.11	36	PASS
11	2462	MCS0	full	7.04	1.15	8.19	36	PASS

## 802.11ax\_HE40M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
3	2422	MCS0	full	15.61	15.20	18.46	5.02	23.48	36	PASS
4	2427	MCS0	full	15.89	15.41	18.70	5.02	23.72	36	PASS
6	2437	MCS0	full	16.57	16.21	19.44	5.02	<b>24.46</b>	36	PASS
8	2447	MCS0	full	16.09	15.52	18.86	5.02	23.88	36	PASS
9	2452	MCS0	full	15.61	14.99	18.36	5.02	23.38	36	PASS
10	2457	MCS0	full	8.92	8.50	11.76	5.02	16.78	36	PASS
11	2462	MCS0	full	7.06	6.55	9.86	5.02	14.88	36	PASS

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## 7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 7.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

**Note:**

1. The lower limit shall apply at the transition frequencies.

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## 7.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC G					
EQUIP-MENT TYPE	MFR	MODEL NUM-BER	SERIAL NUM-BER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
High Pass Filter	R&S	HPF7.0	RF176	11/19/2020	11/18/2021
Notch Filter	Woken	EWT-54-0037	RF204	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、 210220、 210221	03/15/2021	03/14/2022

NOTE: N.C.R refers to Not Calibrated Required.

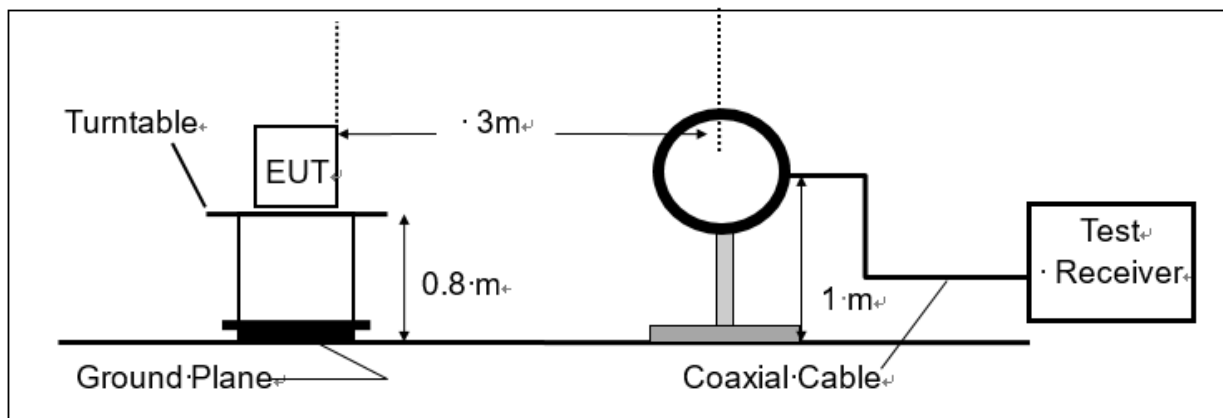
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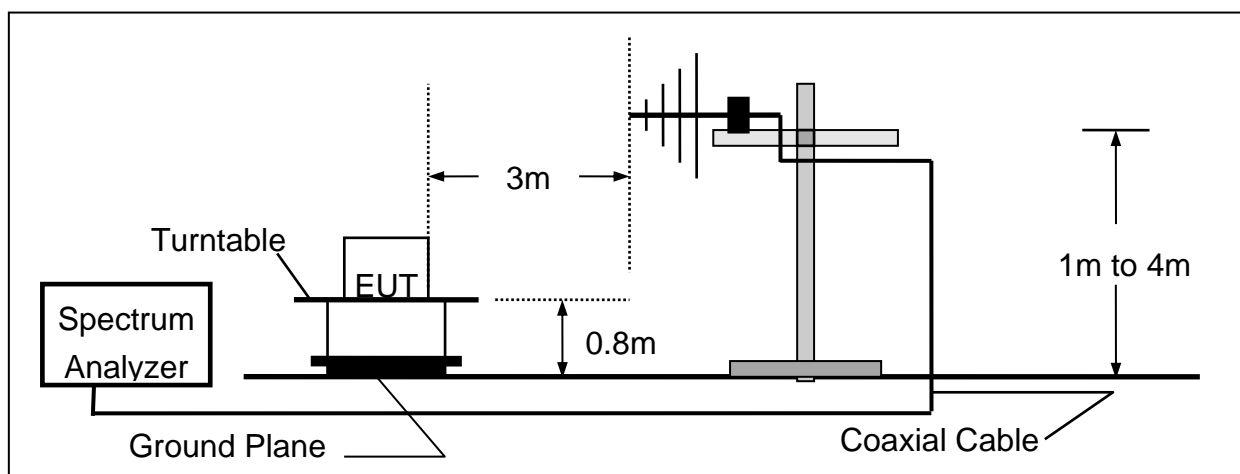
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## 7.3 Test SET-UP

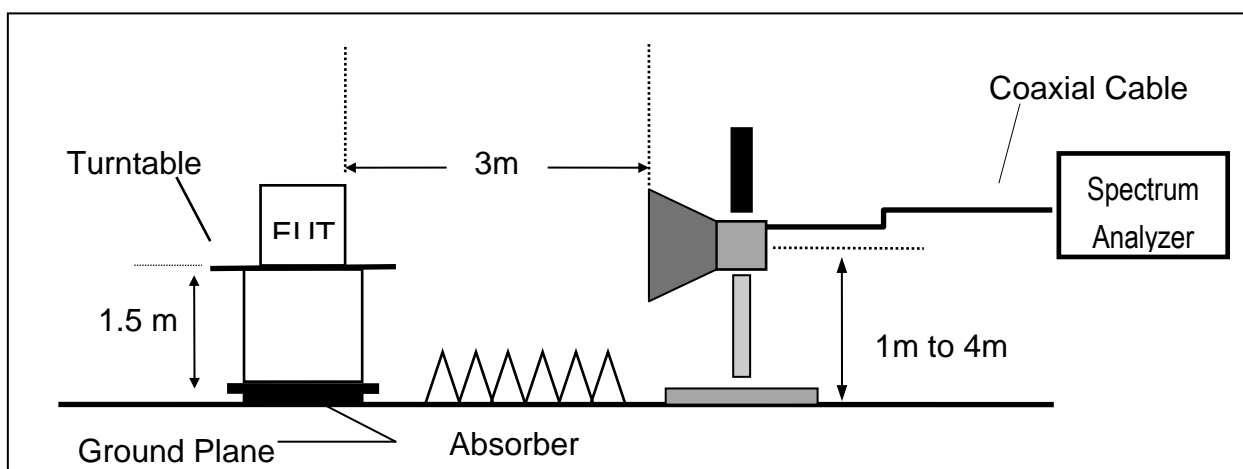
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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## 7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq$  1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all default test channel measured were complete.

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## 7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

*The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$*

*Actual FS(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

## 7.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

## 7.7 Measurement Result

### Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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## 7.7.1 Radiated Band Edge Measurement Result

Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-08-12

Test Frequency :2412 MHz

Temp./Humi. :23.6/63

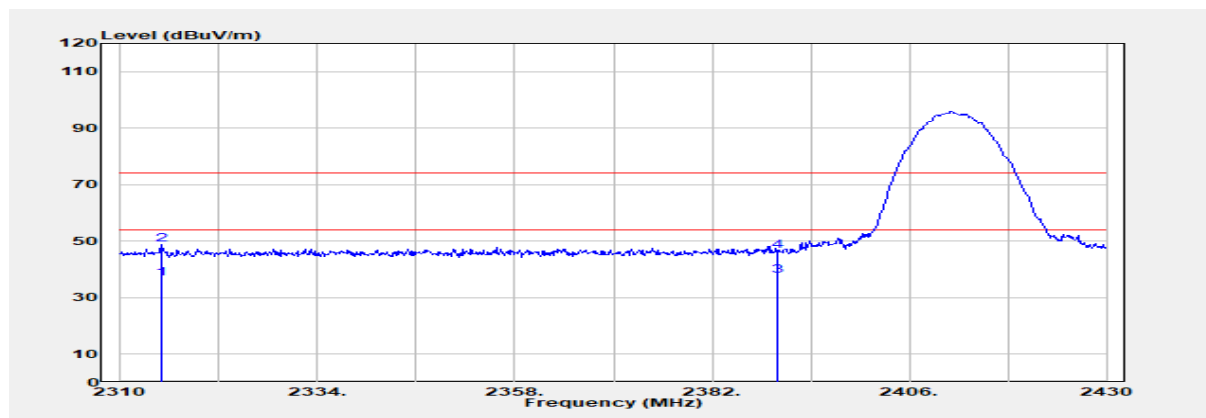
Test Mode :BE CH 01

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng

Setting :15.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2315.040	Average	40.32	-3.68	36.64	54.00	-17.36
2315.040	Peak	52.58	-3.68	48.89	74.00	-25.11
2390.000	Average	41.46	-3.80	37.66	54.00	-16.34
2390.000	Peak	50.28	-3.80	46.48	74.00	-27.52

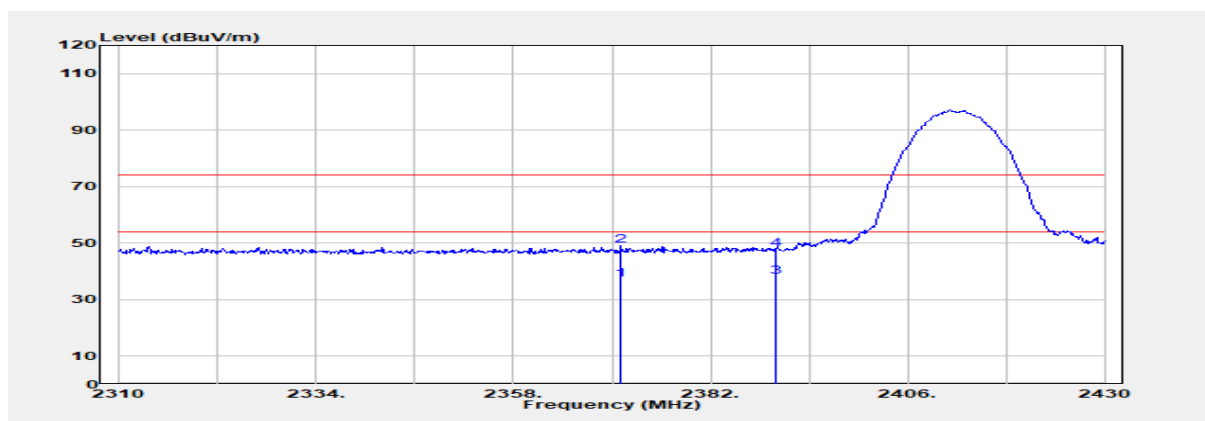
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Report Number :E2/2021/80019  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :BE CH 01  
 EUT Pol :NB Plane  
 Setting :15.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2371.080	Average	40.88	-3.69	37.19	54.00	-16.81
2371.080	Peak	52.64	-3.69	48.95	74.00	-25.05
2390.000	Average	41.81	-3.80	38.01	54.00	-15.99
2390.000	Peak	51.45	-3.80	47.65	74.00	-26.35

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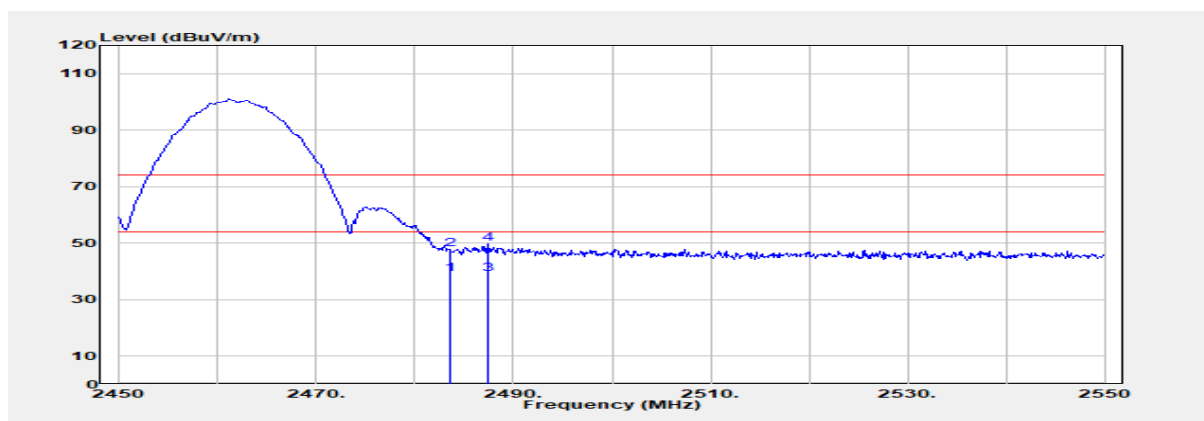
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Report Number :E2/2021/80019  
Operation Mode :802.11b  
Test Frequency :2462 MHz  
Test Mode :BE CH 11  
EUT Pol :NB Plane  
Setting :15

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	42.87	-3.92	38.95	54.00	-15.05
2483.500	Peak	51.88	-3.92	47.96	74.00	-26.04
2487.500	Average	43.03	-3.89	39.14	54.00	-14.86
2487.500	Peak	53.53	-3.89	49.64	74.00	-24.36

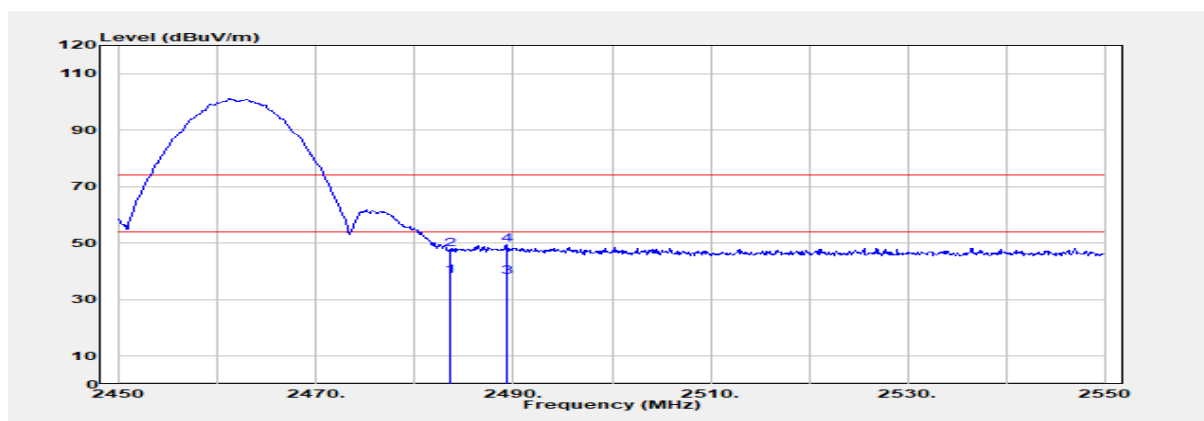
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Report Number :E2/2021/80019  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11  
 EUT Pol :NB Plane  
 Setting :15

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	42.45	-3.92	38.54	54.00	-15.46
2483.500	Peak	51.62	-3.92	47.70	74.00	-26.30
2489.300	Average	42.03	-3.88	38.14	54.00	-15.86
2489.300	Peak	53.34	-3.88	49.46	74.00	-24.54

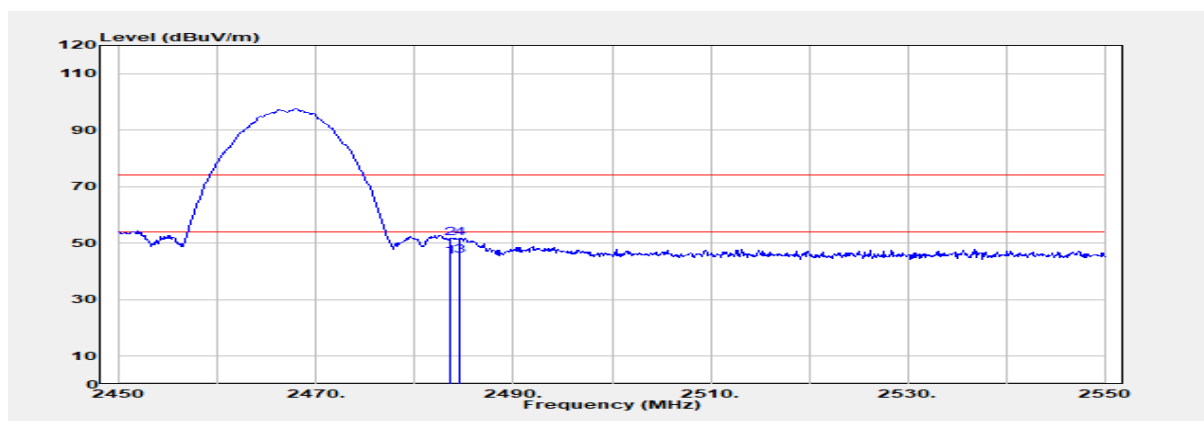
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Report Number :E2/2021/80019  
Operation Mode :802.11b  
Test Frequency :2467 MHz  
Test Mode :BE CH 12  
EUT Pol :NB Plane  
Setting :11.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	49.17	-3.92	45.25	54.00	-8.75
2483.500	Peak	55.50	-3.92	51.58	74.00	-22.42
2484.600	Average	49.29	-3.91	45.38	54.00	-8.62
2484.600	Peak	55.72	-3.91	51.81	74.00	-22.19

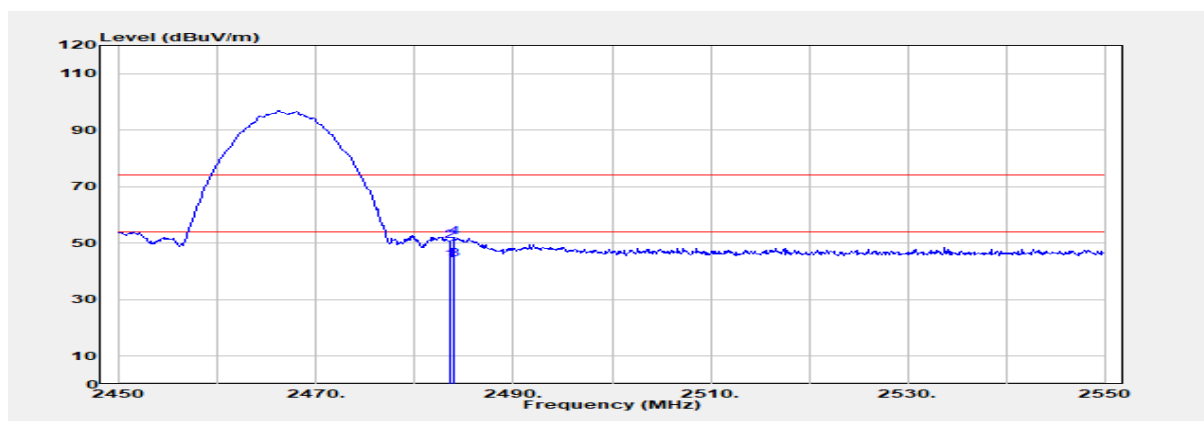
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Report Number :E2/2021/80019  
Operation Mode :802.11b  
Test Frequency :2467 MHz  
Test Mode :BE CH 12  
EUT Pol :NB Plane  
Setting :11.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	47.83	-3.92	43.92	54.00	-10.08
2483.500	Peak	54.53	-3.92	50.62	74.00	-23.38
2484.000	Average	48.02	-3.92	44.11	54.00	-9.89
2484.000	Peak	56.05	-3.92	52.14	74.00	-21.86

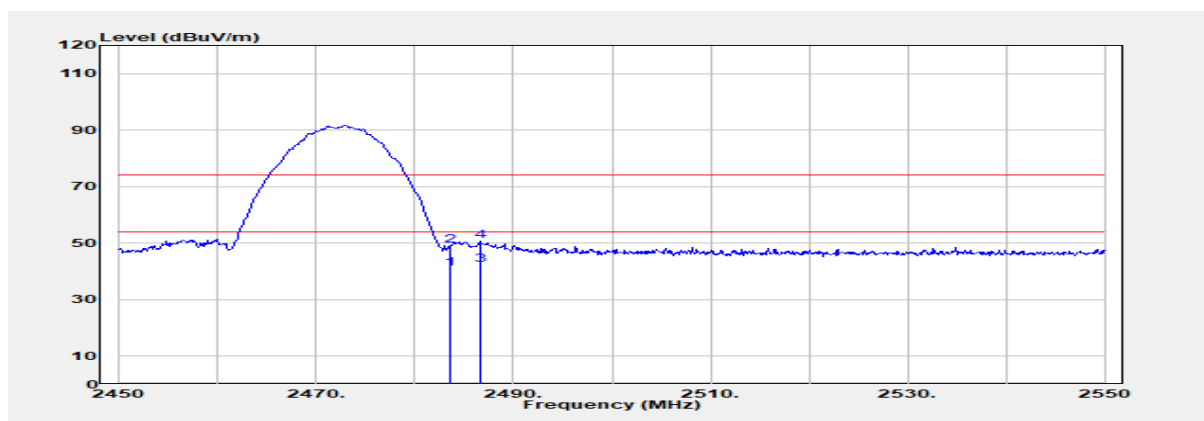
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Report Number :E2/2021/80019  
Operation Mode :802.11b  
Test Frequency :2472 MHz  
Test Mode :BE CH 13  
EUT Pol :NB Plane  
Setting :5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.87	-3.92	40.95	54.00	-13.05
2483.500	Peak	53.11	-3.92	49.19	74.00	-24.81
2486.600	Average	46.02	-3.90	42.12	54.00	-11.88
2486.600	Peak	54.75	-3.90	50.85	74.00	-23.15

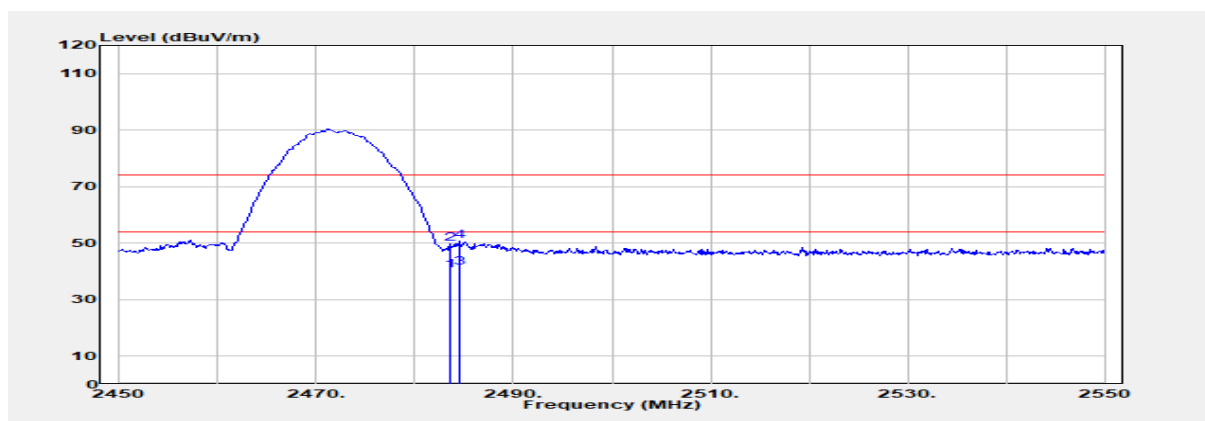
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Report Number :E2/2021/80019  
Operation Mode :802.11b  
Test Frequency :2472 MHz  
Test Mode :BE CH 13  
EUT Pol :NB Plane  
Setting :5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.19	-3.92	40.28	54.00	-13.72
2483.500	Peak	53.63	-3.92	49.71	74.00	-24.29
2484.500	Average	45.10	-3.91	41.19	54.00	-12.81
2484.500	Peak	54.56	-3.91	50.64	74.00	-23.36

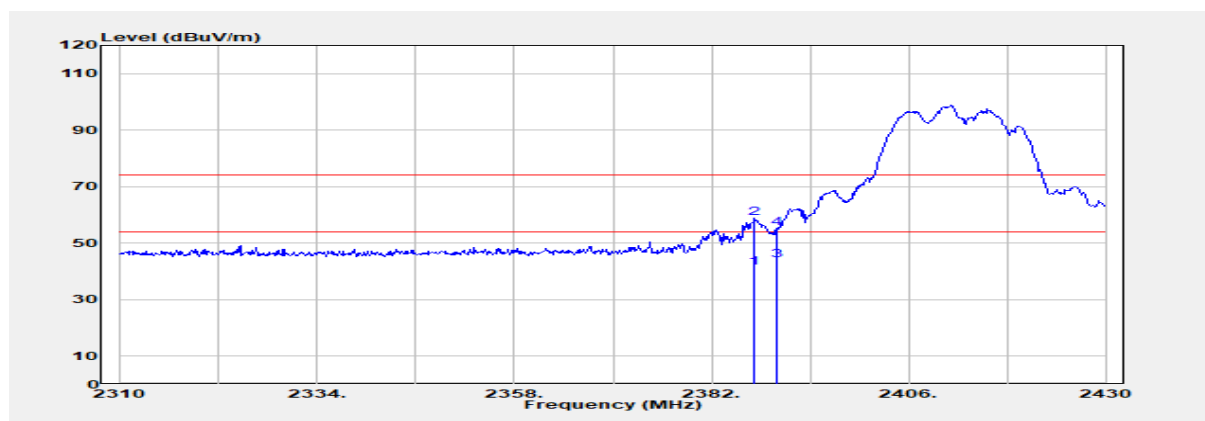
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Report Number :E2/2021/80019  
Operation Mode :802.11g  
Test Frequency :2412 MHz  
Test Mode :BE CH 01  
EUT Pol :NB Plane  
Setting :14.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.280	Average	44.93	-3.79	41.14	54.00	-12.86
2387.280	Peak	62.58	-3.79	58.79	74.00	-15.21
2390.000	Average	47.79	-3.80	43.99	54.00	-10.01
2390.000	Peak	59.12	-3.80	55.32	74.00	-18.68

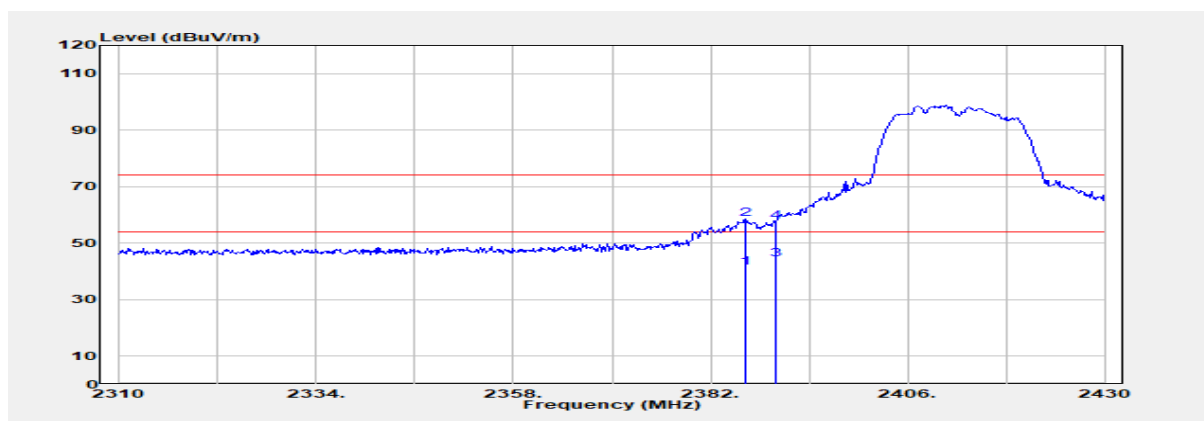
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Report Number :E2/2021/80019  
Operation Mode :802.11g  
Test Frequency :2412 MHz  
Test Mode :BE CH 01  
EUT Pol :NB Plane  
Setting :14.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.320	Average	44.98	-3.79	41.19	54.00	-12.81
2386.320	Peak	62.26	-3.79	58.47	74.00	-15.53
2390.000	Average	48.11	-3.80	44.31	54.00	-9.69
2390.000	Peak	61.28	-3.80	57.48	74.00	-16.52

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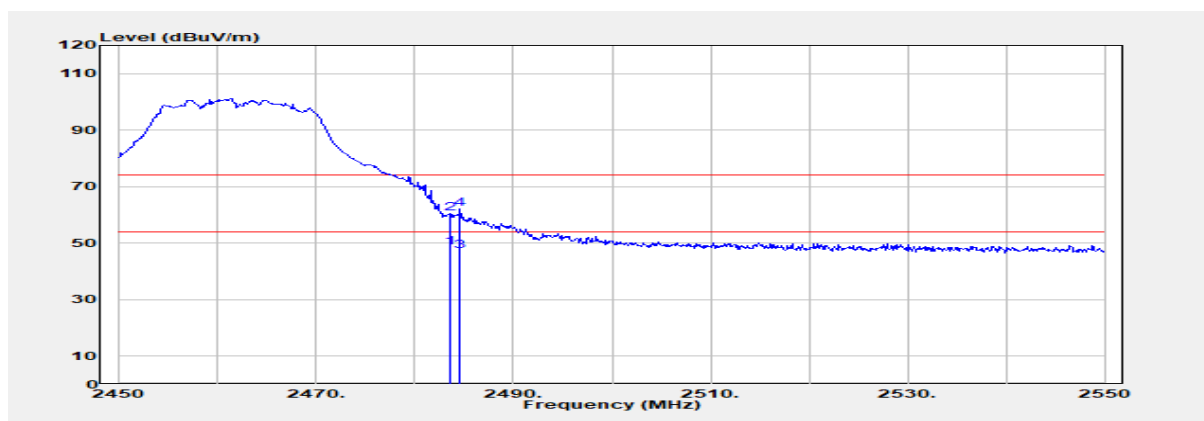
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Report Number :E2/2021/80019  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.41	-3.92	48.49	54.00	-5.51
2483.500	Peak	64.43	-3.92	60.51	74.00	-13.49
2484.600	Average	50.99	-3.91	47.08	54.00	-6.92
2484.600	Peak	66.16	-3.91	62.25	74.00	-11.75

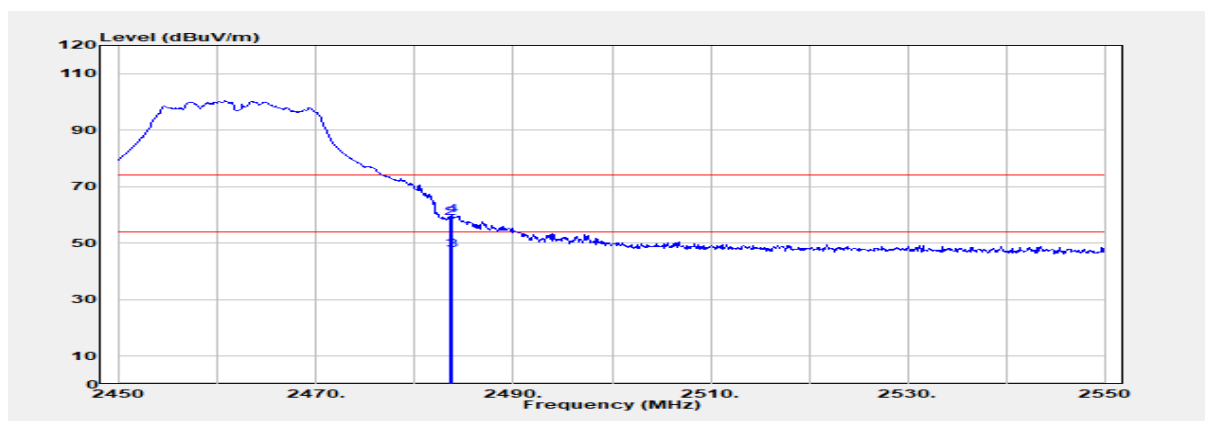
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Report Number :E2/2021/80019  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.71	-3.92	47.80	54.00	-6.20
2483.500	Peak	62.81	-3.92	58.89	74.00	-15.11
2483.700	Average	51.25	-3.92	47.33	54.00	-6.67
2483.700	Peak	63.92	-3.92	60.00	74.00	-14.00

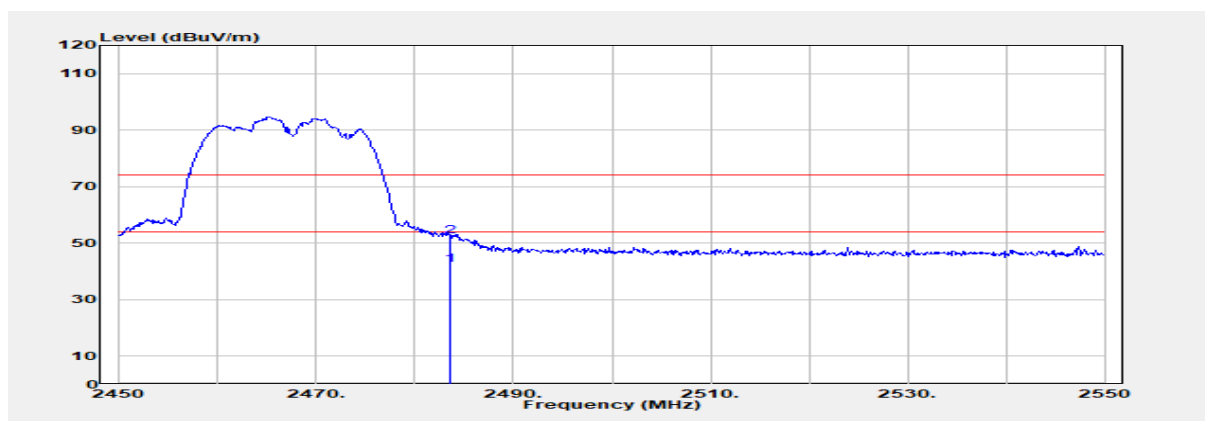
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Report Number :E2/2021/80019  
 Operation Mode :802.11g  
 Test Frequency :2467 MHz  
 Test Mode :BE CH 12  
 EUT Pol :NB Plane  
 Setting :8.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.05	-3.92	42.13	54.00	-11.87
2483.500	Peak	56.42	-3.92	52.50	74.00	-21.50

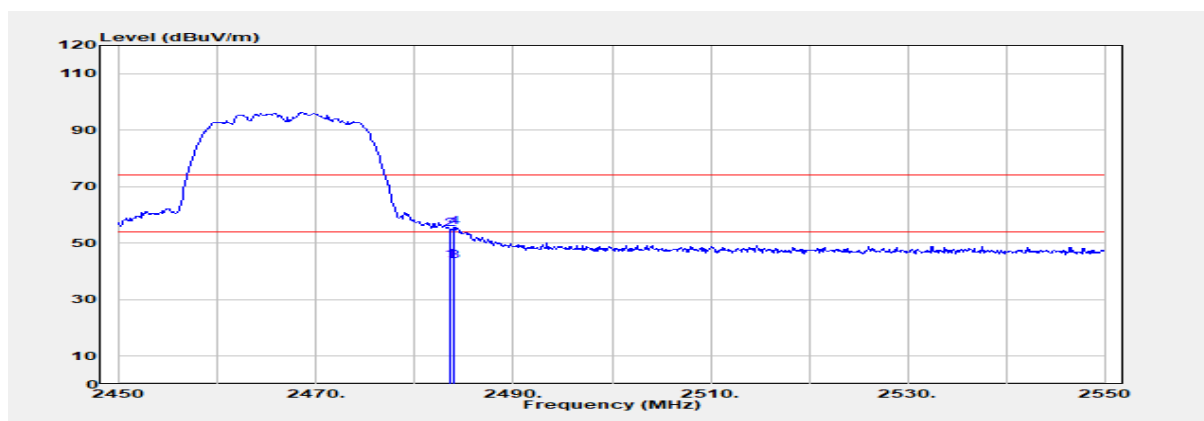
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Report Number :E2/2021/80019  
Operation Mode :802.11g  
Test Frequency :2467 MHz  
Test Mode :BE CH 12  
EUT Pol :NB Plane  
Setting :8.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	47.94	-3.92	44.03	54.00	-9.97
2483.500	Peak	58.74	-3.92	54.82	74.00	-19.18
2484.000	Average	47.47	-3.92	43.56	54.00	-10.44
2484.000	Peak	59.62	-3.92	55.70	74.00	-18.30

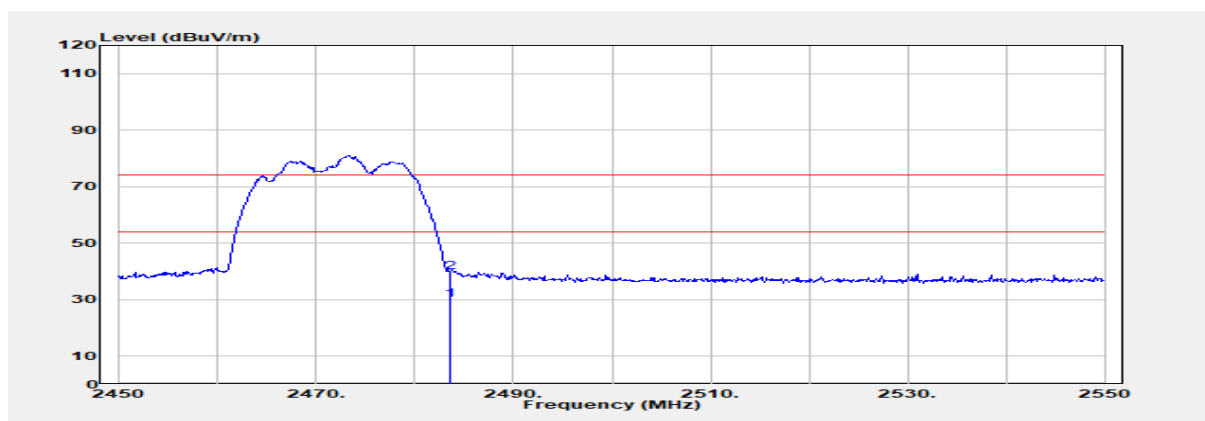
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Report Number :E2/2021/80019  
Operation Mode :802.11g  
Test Frequency :2472 MHz  
Test Mode :BE CH 13  
EUT Pol :NB Plane  
Setting :3.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	33.68	-3.92	29.76	54.00	-24.24
2483.500	Peak	43.66	-3.92	39.74	74.00	-34.26

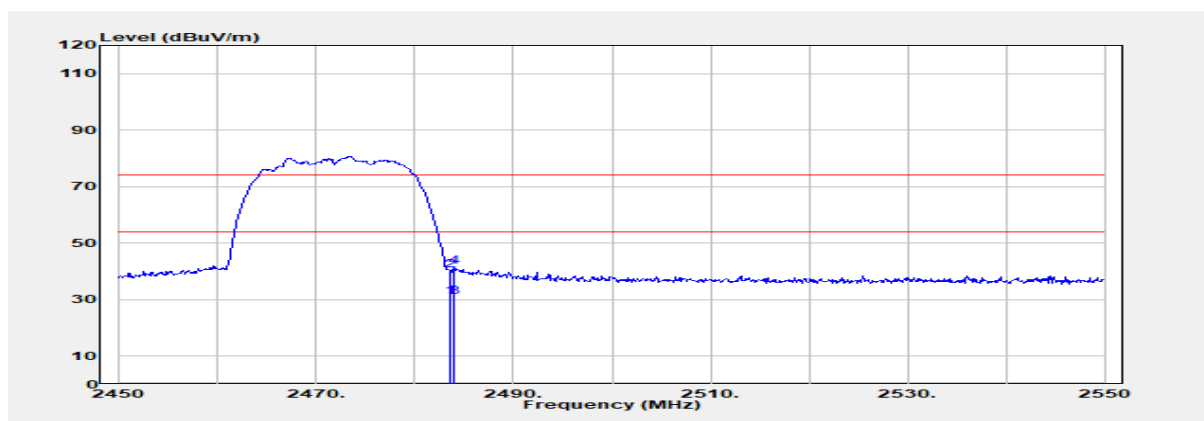
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Report Number :E2/2021/80019  
Operation Mode :802.11g  
Test Frequency :2472 MHz  
Test Mode :BE CH 13  
EUT Pol :NB Plane  
Setting :3.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	34.66	-3.92	30.74	54.00	-23.26
2483.500	Peak	44.19	-3.92	40.27	74.00	-33.73
2484.000	Average	34.79	-3.92	30.87	54.00	-23.13
2484.000	Peak	45.52	-3.92	41.61	74.00	-32.39

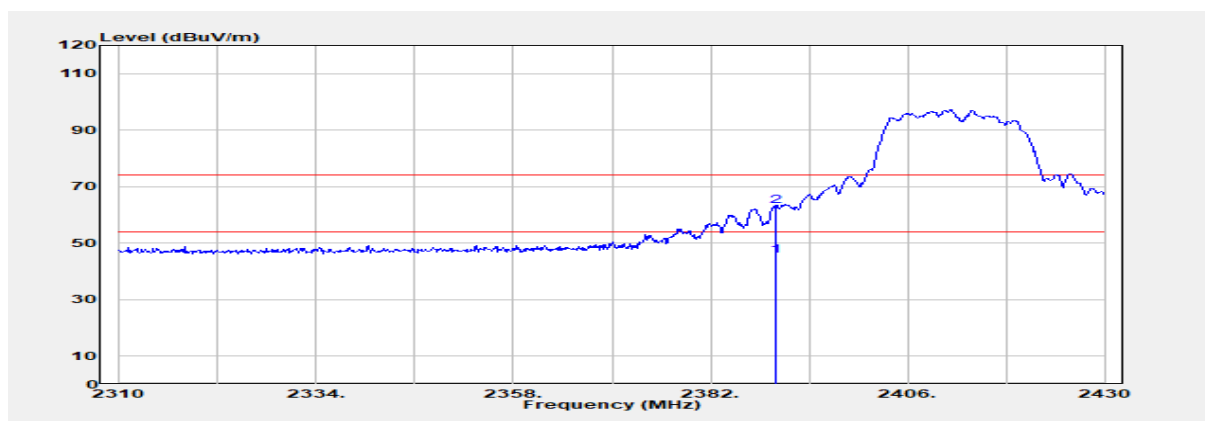
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac20  
 Test Frequency :2412 MHz  
 Test Mode :BE CH 01  
 EUT Pol :NB Plane  
 Setting :14.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	49.37	-3.80	45.57	54.00	-8.43
2390.000	Peak	66.82	-3.80	63.02	74.00	-10.98

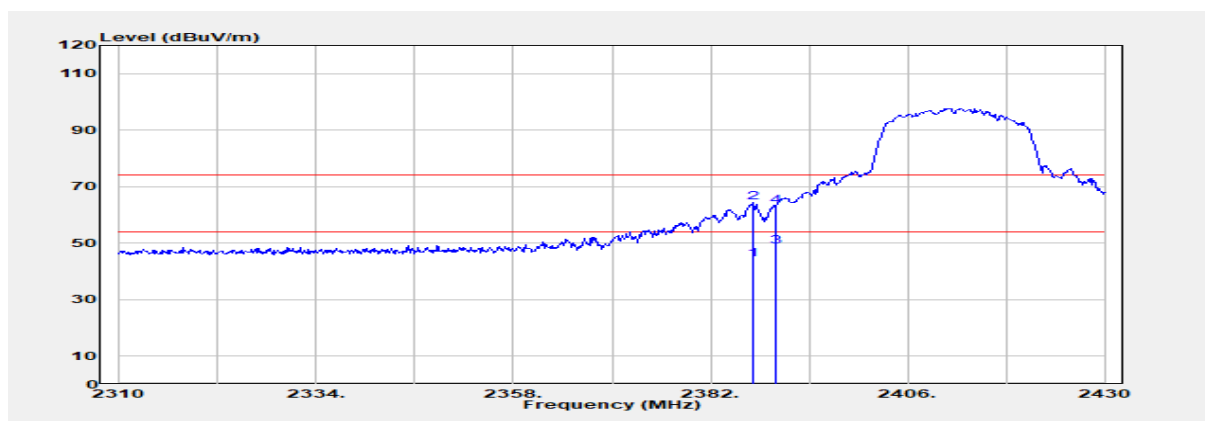
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac20  
 Test Frequency :2412 MHz  
 Test Mode :BE CH 01  
 EUT Pol :NB Plane  
 Setting :14.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.160	Average	47.88	-3.79	44.09	54.00	-9.91
2387.160	Peak	68.05	-3.79	64.26	74.00	-9.74
2390.000	Average	52.49	-3.80	48.69	54.00	-5.31
2390.000	Peak	66.94	-3.80	63.14	74.00	-10.86

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

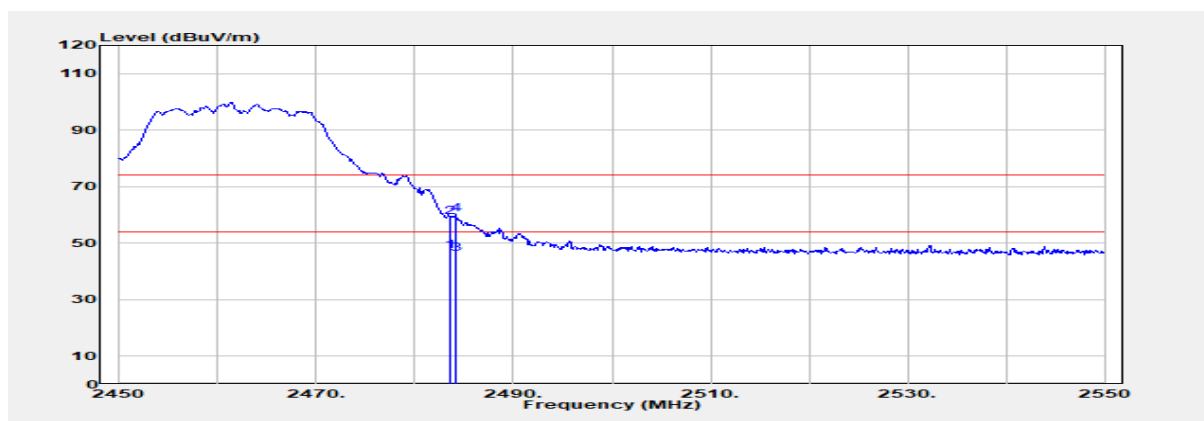
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Report Number :E2/2021/80019  
Operation Mode :802.11ac20  
Test Frequency :2462 MHz  
Test Mode :BE CH 11  
EUT Pol :NB Plane  
Setting :13.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.13	-3.92	47.21	54.00	-6.79
2483.500	Peak	63.16	-3.92	59.24	74.00	-14.76
2484.100	Average	50.25	-3.92	46.33	54.00	-7.67
2484.100	Peak	64.00	-3.92	60.09	74.00	-13.91

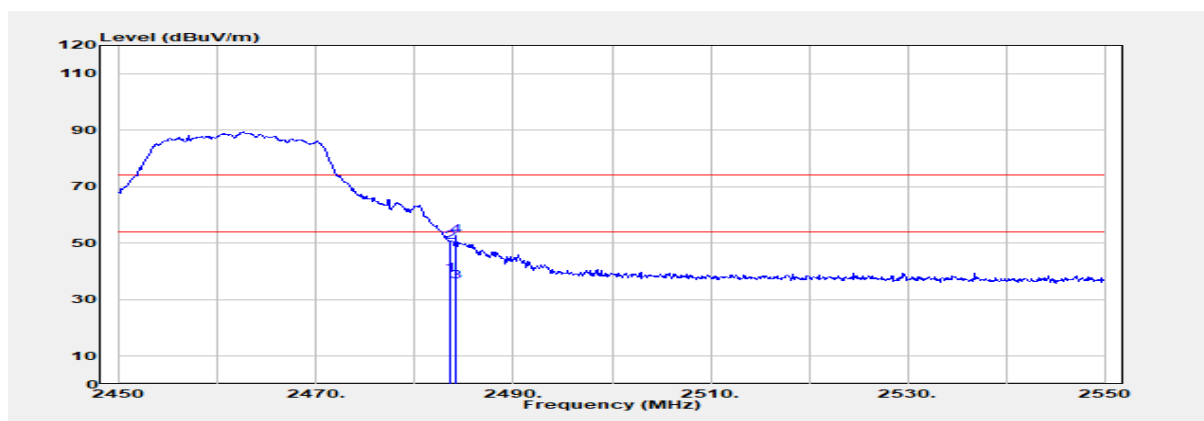
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac20  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.06	-3.92	39.14	54.00	-14.86
2483.500	Peak	54.36	-3.92	50.45	74.00	-23.55
2484.200	Average	40.39	-3.91	36.48	54.00	-17.52
2484.200	Peak	56.68	-3.91	52.77	74.00	-21.23

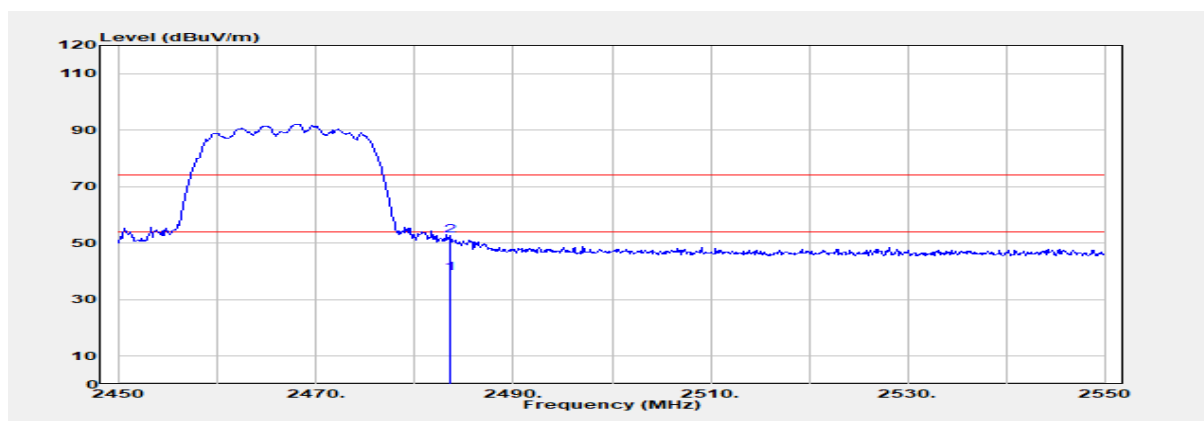
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac20  
 Test Frequency :2467 MHz  
 Test Mode :BE CH 12  
 EUT Pol :NB Plane  
 Setting :7.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.37	-3.92	39.45	54.00	-14.55
2483.500	Peak	56.46	-3.92	52.55	74.00	-21.45

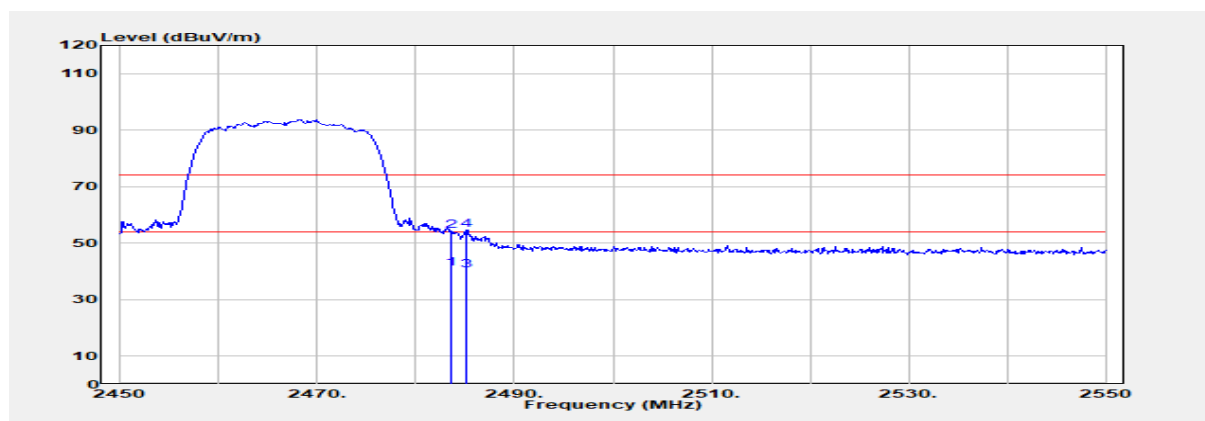
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Report Number :E2/2021/80019  
Operation Mode :802.11ac20  
Test Frequency :2467 MHz  
Test Mode :BE CH 12  
EUT Pol :NB Plane  
Setting :7.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.88	-3.92	40.96	54.00	-13.04
2483.500	Peak	58.19	-3.92	54.27	74.00	-19.73
2485.100	Average	44.35	-3.91	40.44	54.00	-13.56
2485.100	Peak	58.63	-3.91	54.73	74.00	-19.27

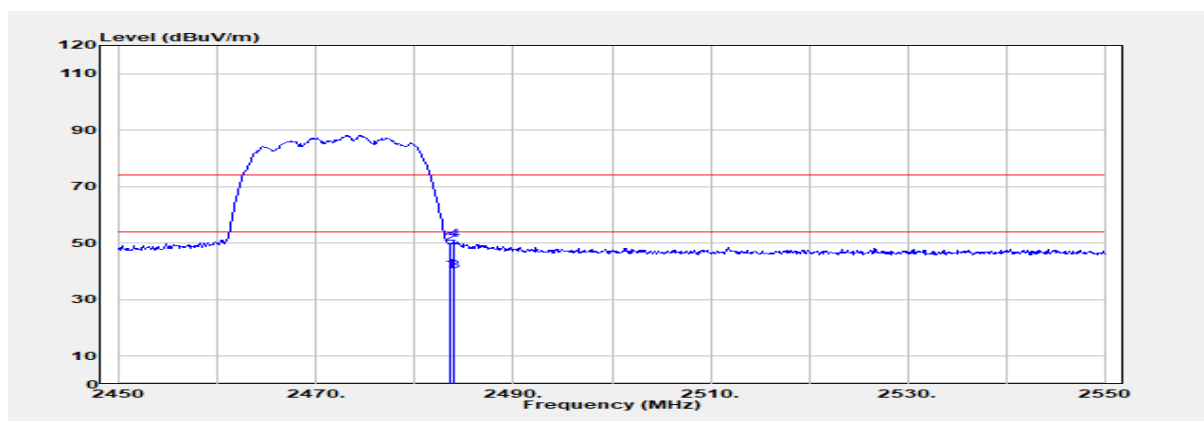
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Report Number :E2/2021/80019  
Operation Mode :802.11ac20  
Test Frequency :2472 MHz  
Test Mode :BE CH 13  
EUT Pol :NB Plane  
Setting :3

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.31	-3.92	40.39	54.00	-13.61
2483.500	Peak	53.61	-3.92	49.69	74.00	-24.31
2484.000	Average	43.79	-3.92	39.87	54.00	-14.13
2484.000	Peak	54.94	-3.92	51.02	74.00	-22.98

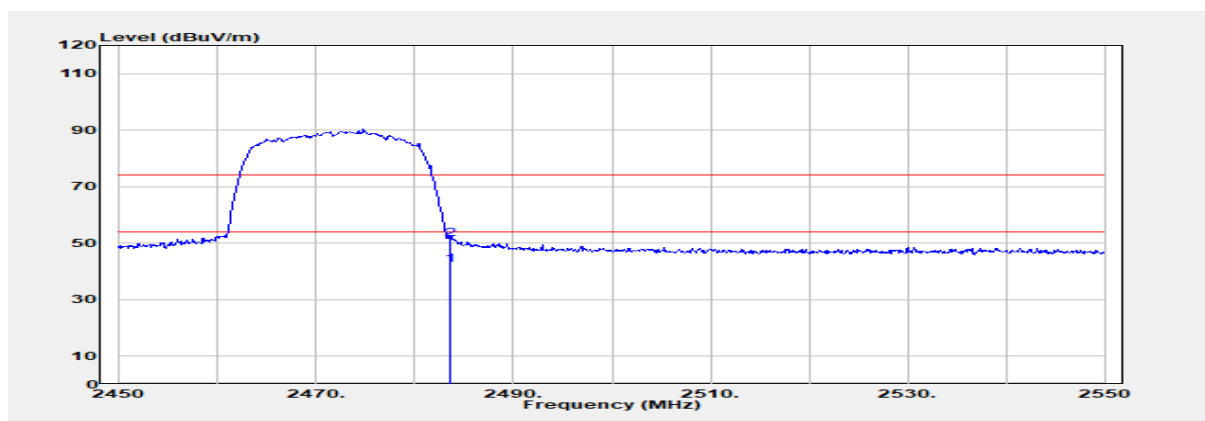
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Report Number :E2/2021/80019  
Operation Mode :802.11ac20  
Test Frequency :2472 MHz  
Test Mode :BE CH 13  
EUT Pol :NB Plane  
Setting :3

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.05	-3.92	42.14	54.00	-11.86
2483.500	Peak	55.36	-3.92	51.44	74.00	-22.56

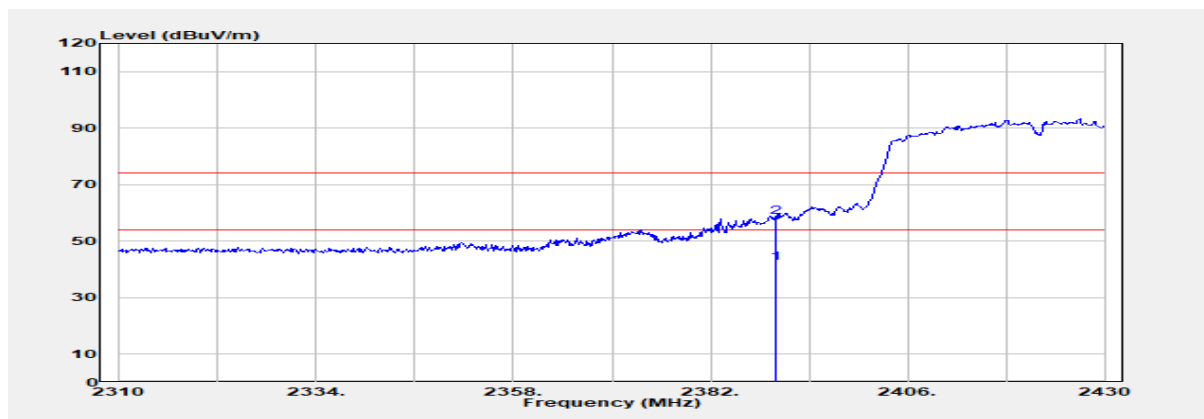
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac40  
 Test Frequency :2422 MHz  
 Test Mode :BE CH 3  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	46.15	-3.80	42.35	54.00	-11.65
2390.000	Peak	62.19	-3.80	58.39	74.00	-15.61

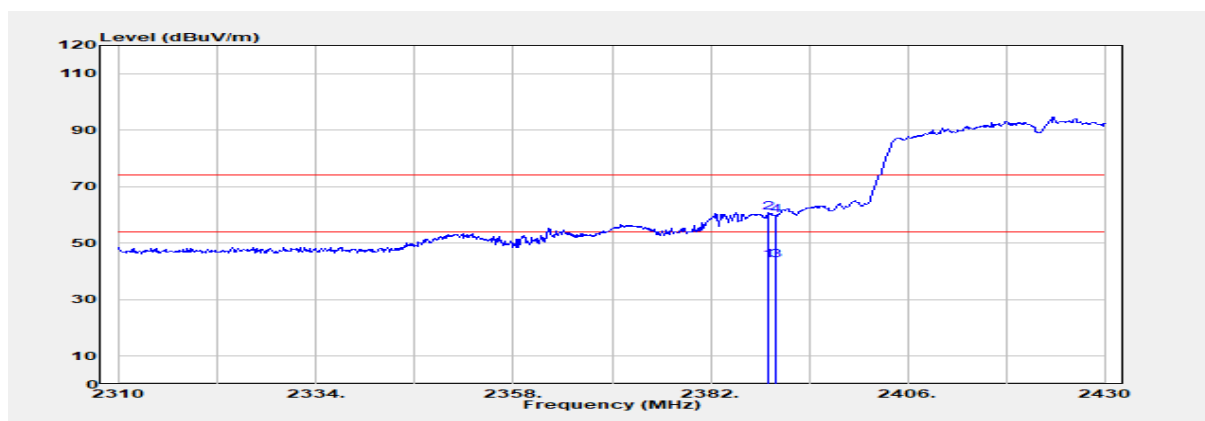
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Report Number :E2/2021/80019  
Operation Mode :802.11ac40  
Test Frequency :2422 MHz  
Test Mode :BE CH 3  
EUT Pol :NB Plane  
Setting :13.5

Test Site :SAC G  
Test Date :2021-08-12  
Temp./Humi. :23.6/63  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.080	Average	47.63	-3.80	43.83	54.00	-10.17
2389.080	Peak	64.58	-3.80	60.78	74.00	-13.22
2390.000	Average	47.79	-3.80	43.99	54.00	-10.01
2390.000	Peak	63.68	-3.80	59.88	74.00	-14.12

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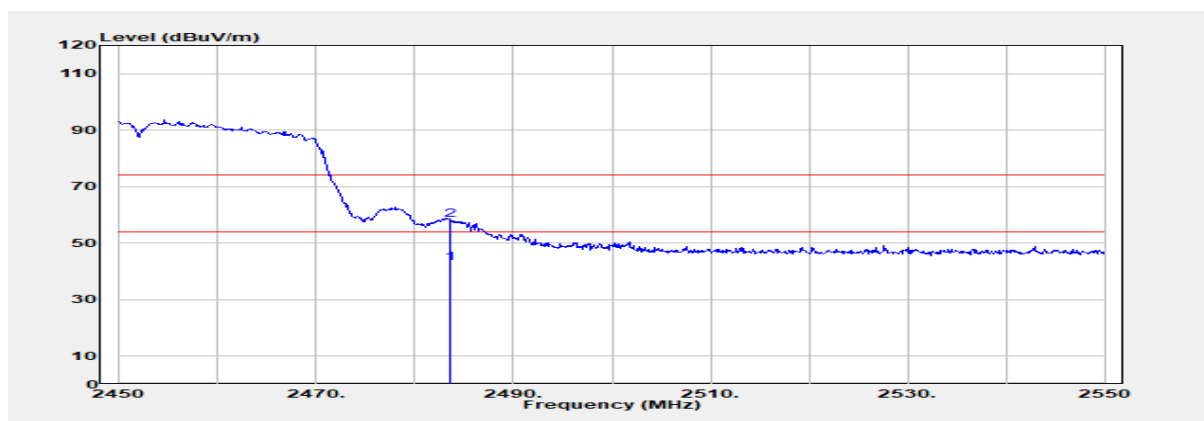
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac40  
 Test Frequency :2452 MHz  
 Test Mode :BE CH 9  
 EUT Pol :NB Plane  
 Setting :13

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2483.500	Average	46.99	-3.92	43.07	54.00	-10.93
2483.500	Peak	62.01	-3.92	58.09	74.00	-15.91

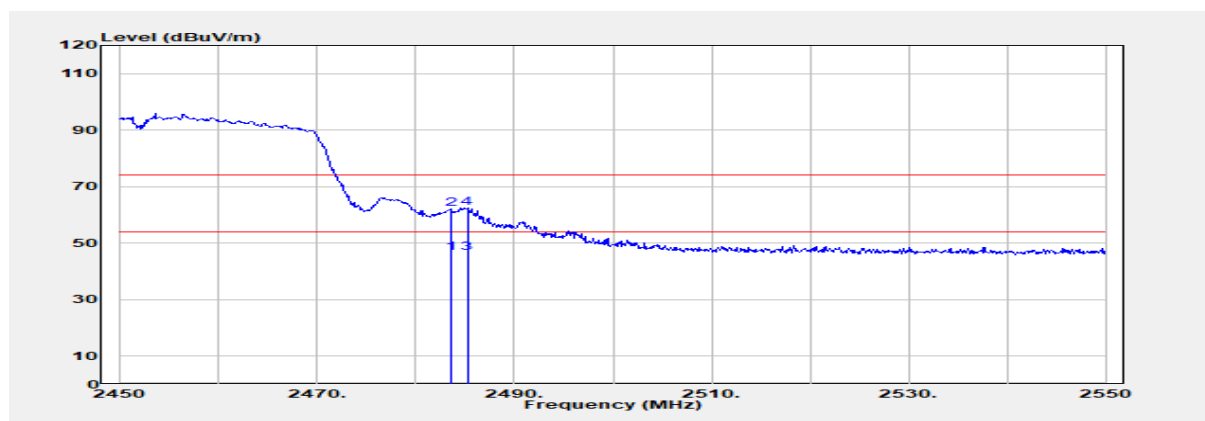
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac40  
 Test Frequency :2452 MHz  
 Test Mode :BE CH 9  
 EUT Pol :NB Plane  
 Setting :13

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.55	-3.92	46.63	54.00	-7.37
2483.500	Peak	65.90	-3.92	61.98	74.00	-12.02
2485.200	Average	50.37	-3.91	46.46	54.00	-7.54
2485.200	Peak	66.50	-3.91	62.59	74.00	-11.41

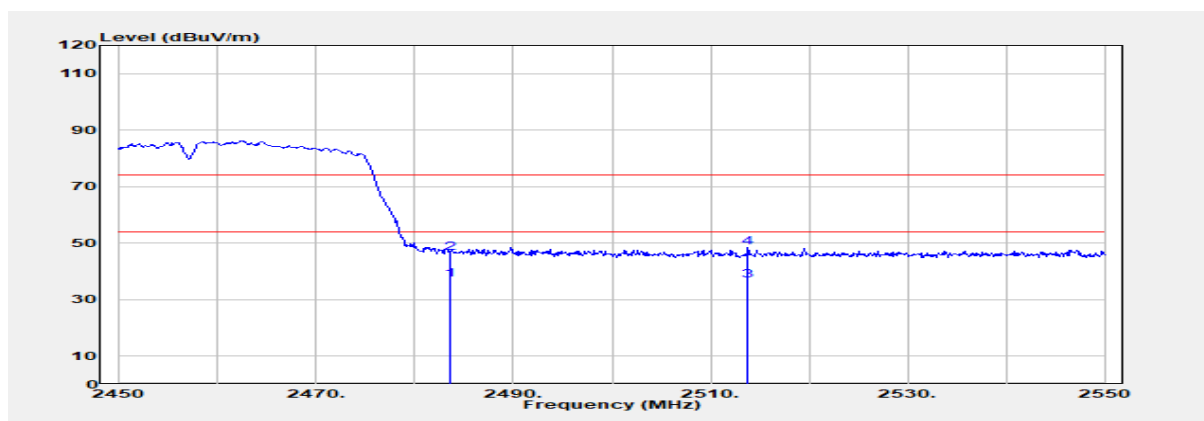
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac40  
 Test Frequency :2457 MHz  
 Test Mode :BE CH 10  
 EUT Pol :NB Plane  
 Setting :6.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	40.98	-3.92	37.06	54.00	-16.94
2483.500	Peak	50.54	-3.92	46.62	74.00	-27.38
2513.800	Average	40.78	-3.99	36.79	54.00	-17.21
2513.800	Peak	52.43	-3.99	48.45	74.00	-25.55

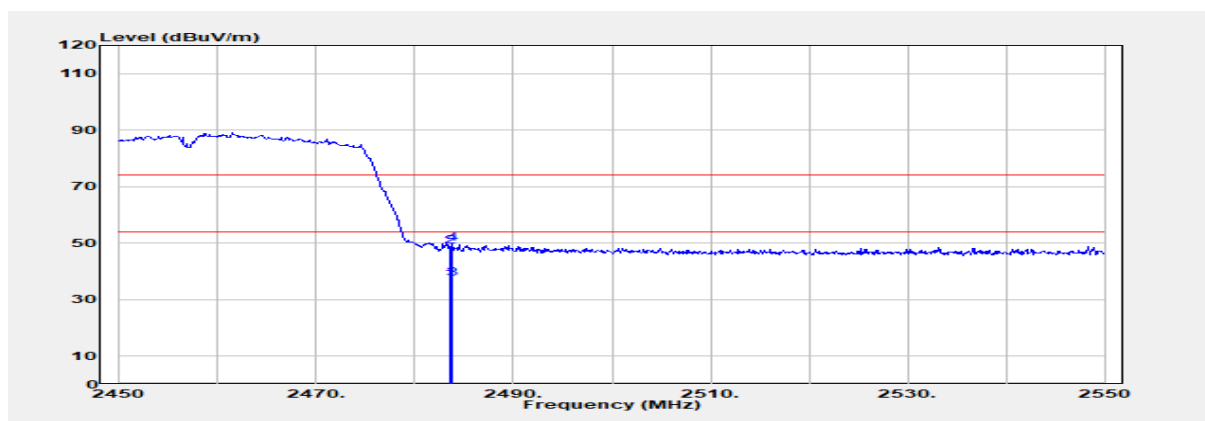
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac40  
 Test Frequency :2457 MHz  
 Test Mode :BE CH 10  
 EUT Pol :NB Plane  
 Setting :6.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	41.09	-3.92	37.17	54.00	-16.83
2483.500	Peak	52.68	-3.92	48.76	74.00	-25.24
2483.800	Average	41.20	-3.92	37.28	54.00	-16.72
2483.800	Peak	53.75	-3.92	49.84	74.00	-24.16

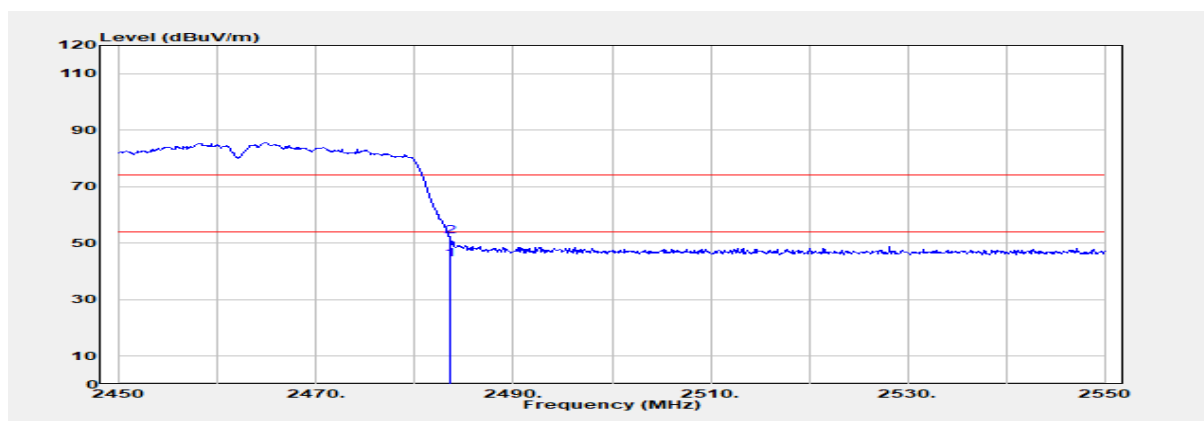
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Report Number :E2/2021/80019  
Operation Mode :802.11ac40  
Test Frequency :2462 MHz  
Test Mode :BE CH 11  
EUT Pol :NB Plane  
Setting :4.5

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :23.6/63  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.10	-3.92	44.18	54.00	-9.82
2483.500	Peak	56.22	-3.92	52.30	74.00	-21.70

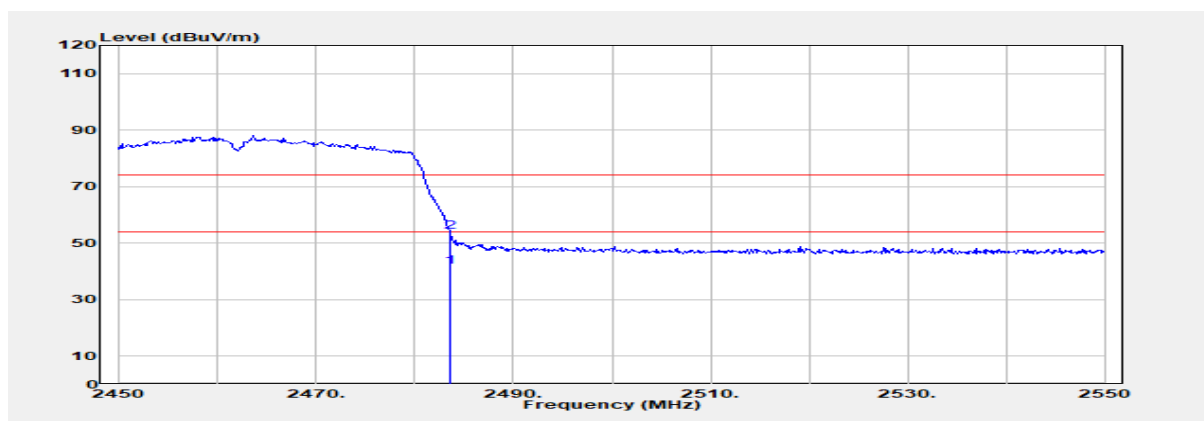
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Report Number :E2/2021/80019  
 Operation Mode :802.11ac40  
 Test Frequency :2462 MHz  
 Test Mode :BE CH 11  
 EUT Pol :NB Plane  
 Setting :4.5

Test Site :SAC G  
 Test Date :2021-08-12  
 Temp./Humi. :23.6/63  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.51	-3.92	41.59	54.00	-12.41
2483.500	Peak	57.87	-3.92	53.95	74.00	-20.05

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-19

Test Frequency :2412 MHz

Temp./Humi. :24.5/60

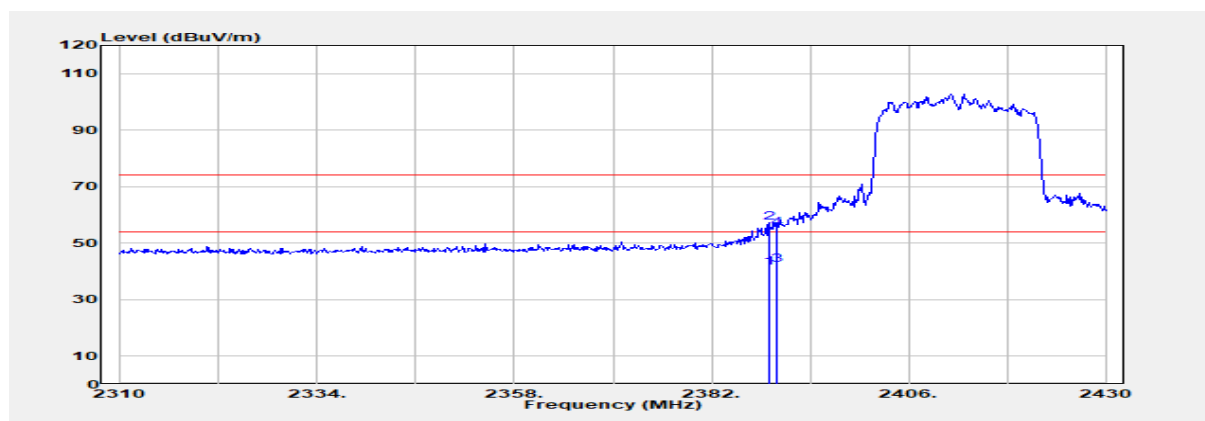
Test Mode :BE CH 1 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.960	Average	45.06	-3.80	41.26	54.00	-12.74
2388.960	Peak	61.15	-3.80	57.35	74.00	-16.65
2390.000	Average	45.92	-3.80	42.12	54.00	-11.88
2390.000	Peak	58.92	-3.80	55.12	74.00	-18.88

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-19

Test Frequency :2412 MHz

Temp./Humi. :24.5/60

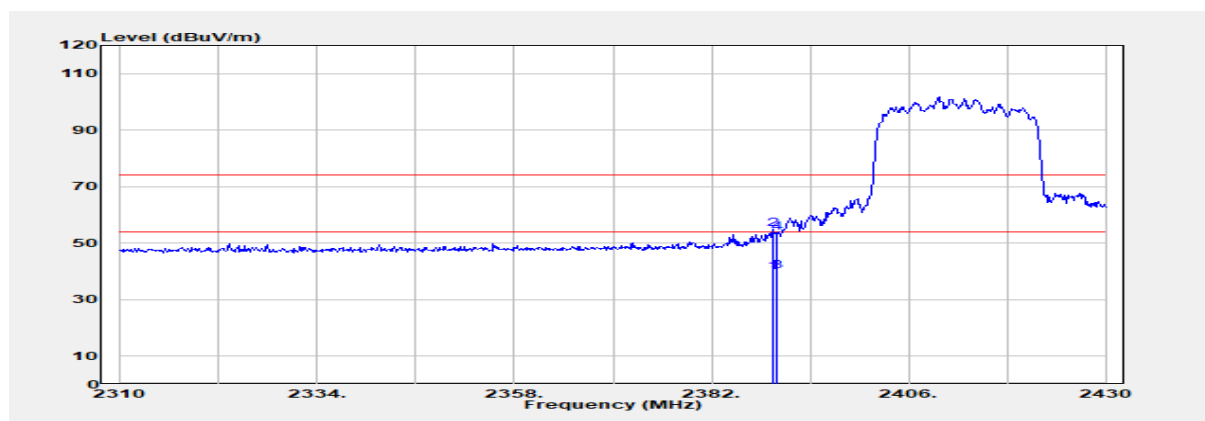
Test Mode :BE CH 1 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.440	Average	43.54	-3.80	39.74	54.00	-14.26
2389.440	Peak	58.85	-3.80	55.06	74.00	-18.94
2390.000	Average	43.82	-3.80	40.01	54.00	-13.99
2390.000	Peak	57.49	-3.80	53.69	74.00	-20.31

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-16

Test Frequency :2417 MHz

Temp./Humi. :24.5/60

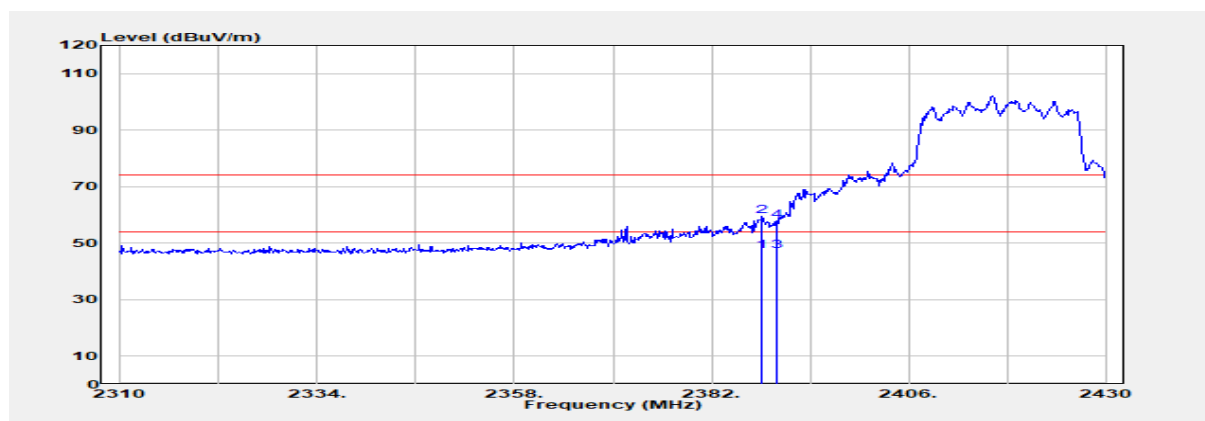
Test Mode :BE CH 2 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :15.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.120	Average	50.90	-3.79	47.11	54.00	-6.89
2388.120	Peak	63.23	-3.79	59.43	74.00	-14.57
2390.000	Average	50.86	-3.80	47.06	54.00	-6.94
2390.000	Peak	61.66	-3.80	57.86	74.00	-16.14

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-16

Test Frequency :2417 MHz

Temp./Humi. :24.5/60

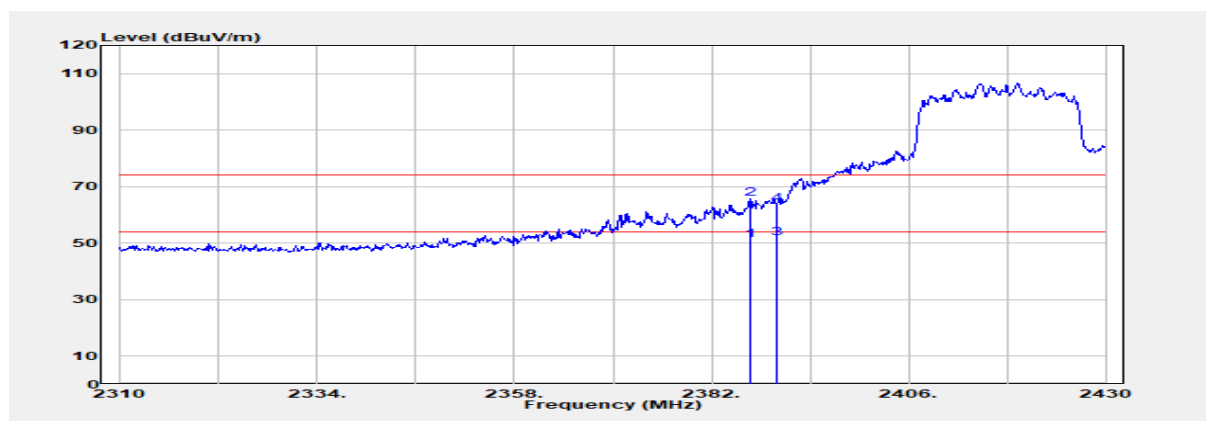
Test Mode :BE CH 2 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :15.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.800	Average	54.74	-3.79	50.95	54.00	-3.05
2386.800	Peak	69.44	-3.79	65.65	74.00	-8.35
2390.000	Average	55.57	-3.80	51.77	54.00	-2.23
2390.000	Peak	67.67	-3.80	63.87	74.00	-10.13

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-19

Test Frequency :2457 MHz

Temp./Humi. :24.5/60

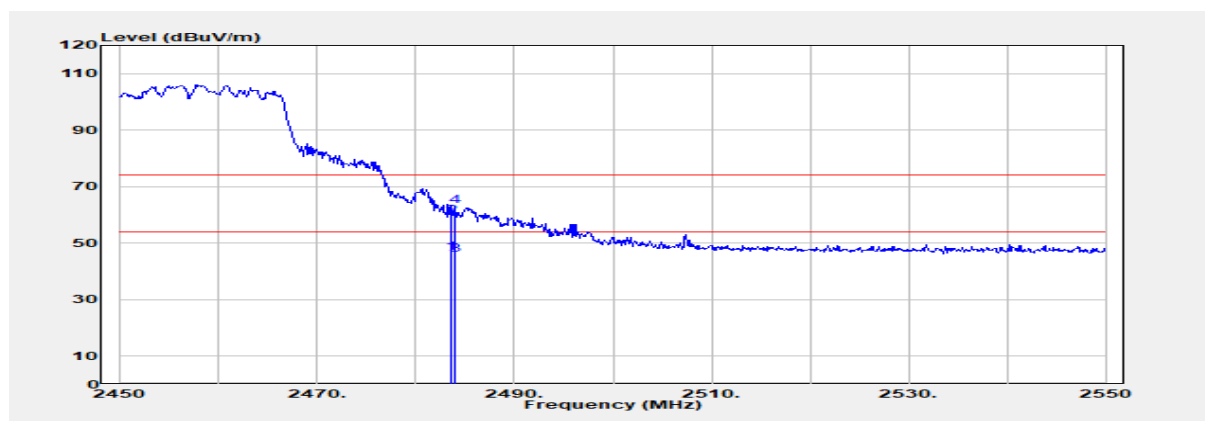
Test Mode :BE CH 10 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :15



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.49	-3.92	46.57	54.00	-7.43
2483.500	Peak	63.51	-3.92	59.59	74.00	-14.41
2484.000	Average	49.69	-3.92	45.77	54.00	-8.23
2484.000	Peak	67.09	-3.92	63.17	74.00	-10.83

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-19

Test Frequency :2457 MHz

Temp./Humi. :24.5/60

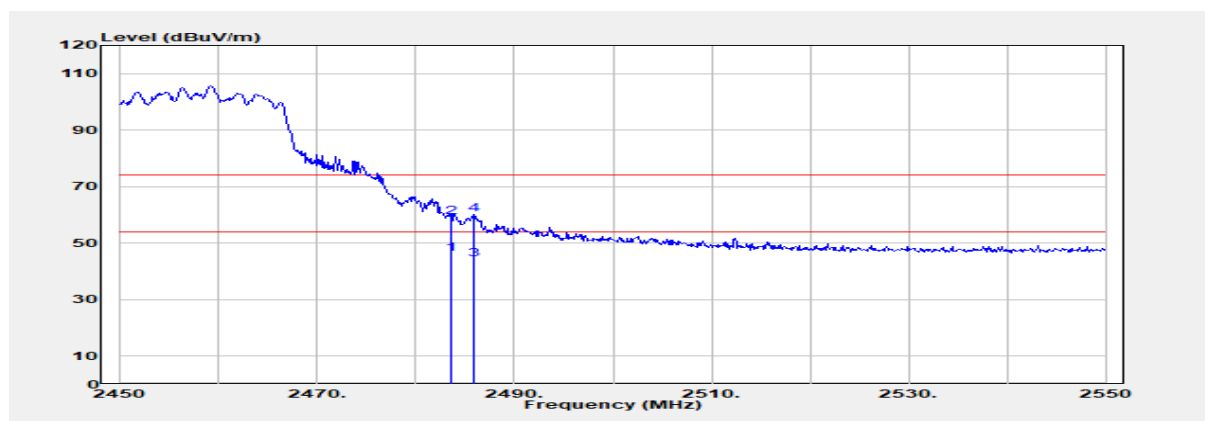
Test Mode :BE CH 10 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :15



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.13	-3.92	46.21	54.00	-7.79
2483.500	Peak	63.04	-3.92	59.12	74.00	-14.88
2485.900	Average	48.04	-3.90	44.14	54.00	-9.86
2485.900	Peak	64.22	-3.90	60.32	74.00	-13.68

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-23

Test Frequency :2462 MHz

Temp./Humi. :24.5/60

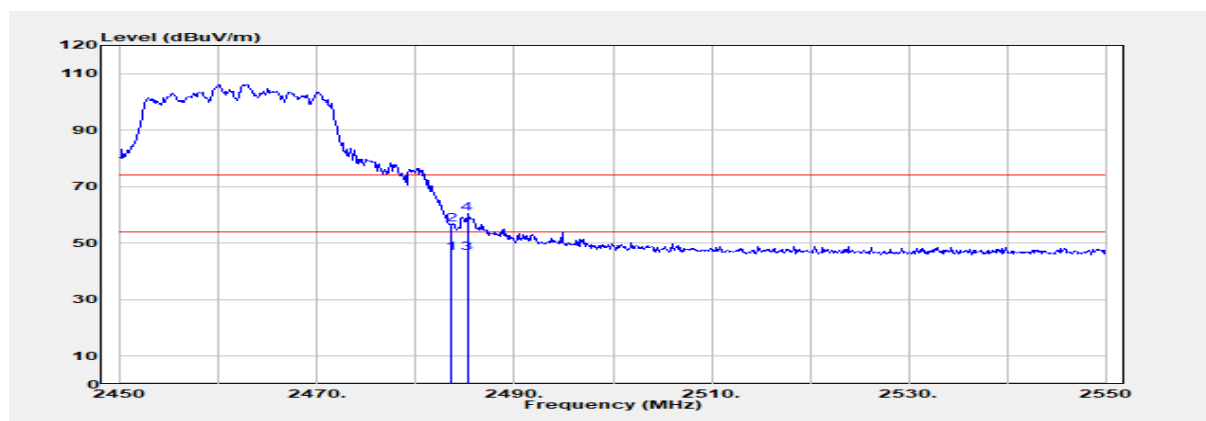
Test Mode :BE CH 11 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.30	-3.92	46.38	54.00	-7.62
2483.500	Peak	60.60	-3.92	56.68	74.00	-17.32
2485.200	Average	50.50	-3.91	46.59	54.00	-7.41
2485.200	Peak	64.41	-3.91	60.50	74.00	-13.50

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-19

Test Frequency :2462 MHz

Temp./Humi. :24.5/60

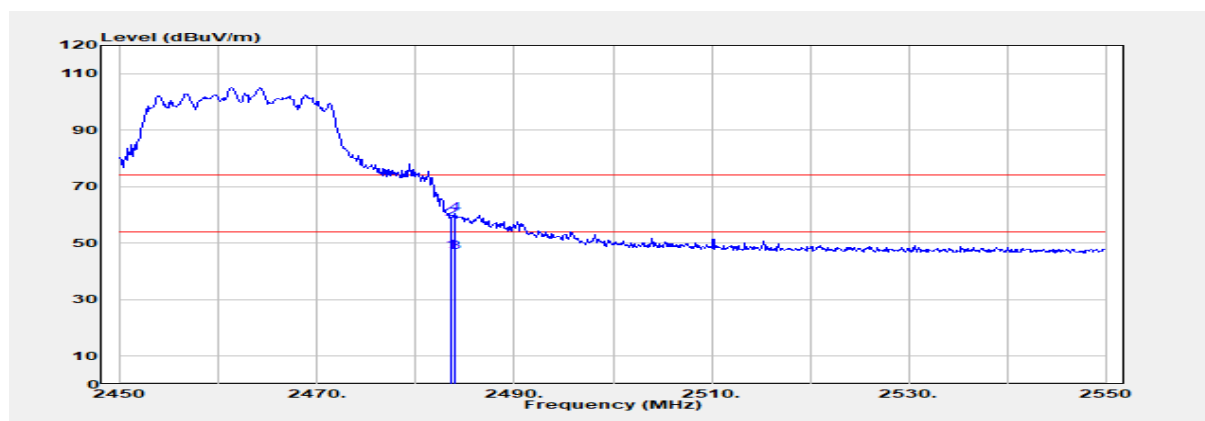
Test Mode :BE CH 11 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.99	-3.92	47.07	54.00	-6.93
2483.500	Peak	62.49	-3.92	58.57	74.00	-15.43
2484.000	Average	50.90	-3.92	46.98	54.00	-7.02
2484.000	Peak	64.45	-3.92	60.53	74.00	-13.47

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-16

Test Frequency :2467 MHz

Temp./Humi. :24.1/62

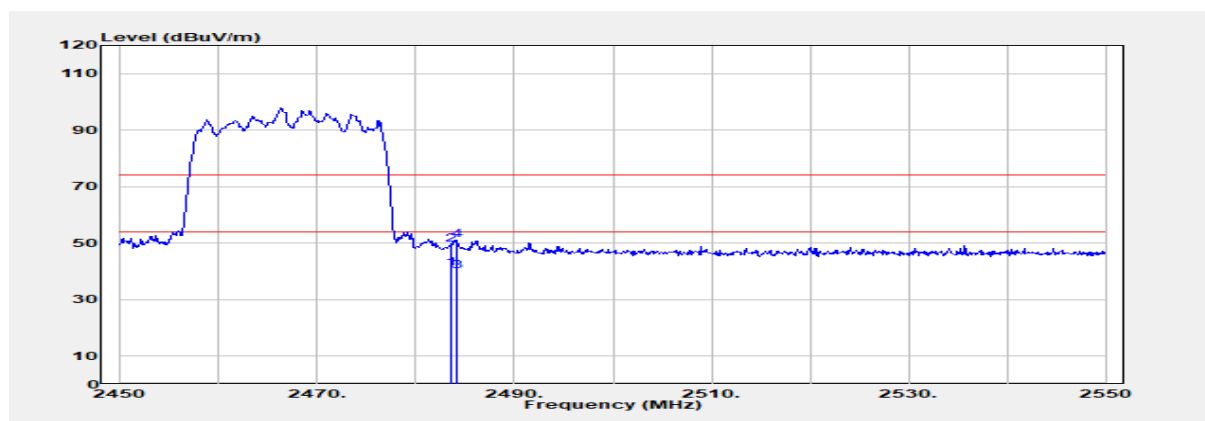
Test Mode :BE CH 12 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :7.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.95	-3.92	41.04	54.00	-12.96
2483.500	Peak	53.43	-3.92	49.51	74.00	-24.49
2484.100	Average	43.86	-3.92	39.94	54.00	-14.06
2484.100	Peak	55.09	-3.92	51.18	74.00	-22.82

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-16

Test Frequency :2467 MHz

Temp./Humi. :24.1/62

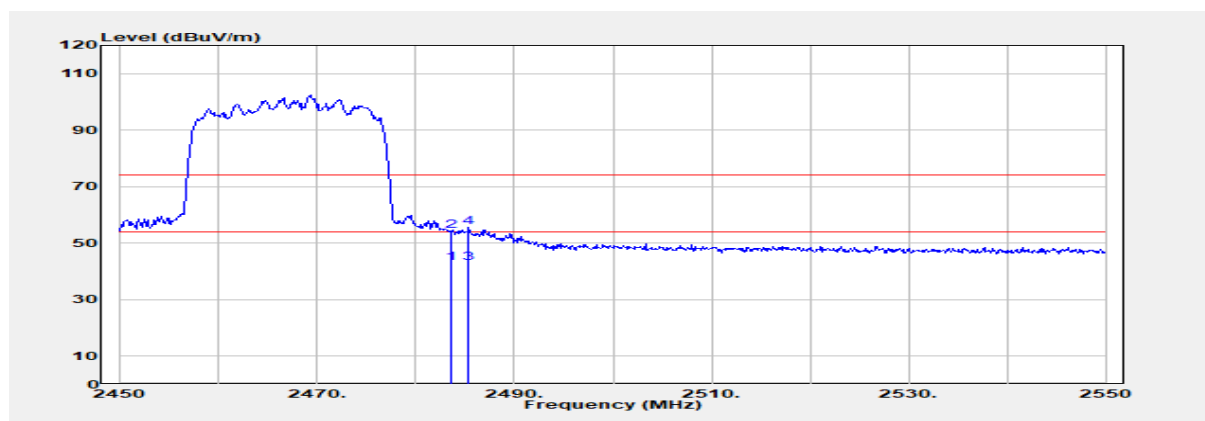
Test Mode :BE CH 12 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :7.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.96	-3.92	43.04	54.00	-10.96
2483.500	Peak	58.26	-3.92	54.35	74.00	-19.65
2485.300	Average	46.93	-3.91	43.02	54.00	-10.98
2485.300	Peak	59.49	-3.91	55.58	74.00	-18.42

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-23

Test Frequency :2472 MHz

Temp./Humi. :25.1/61

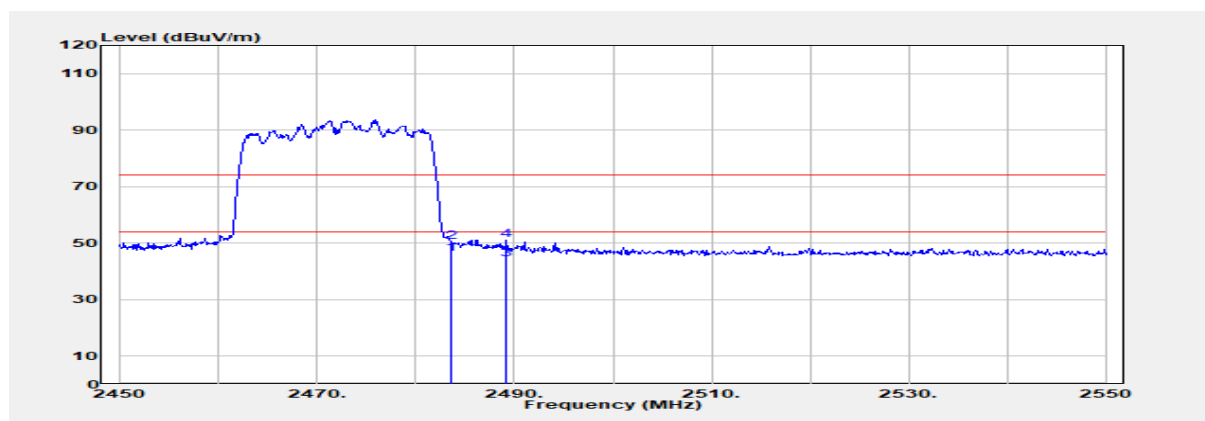
Test Mode :BE CH 13 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :2.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.10	-3.92	46.18	54.00	-7.82
2483.500	Peak	54.42	-3.92	50.50	74.00	-23.50
2489.200	Average	48.00	-3.88	44.12	54.00	-9.88
2489.200	Peak	55.06	-3.88	51.18	74.00	-22.82

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax20

Test Date :2021-08-16

Test Frequency :2472 MHz

Temp./Humi. :25.1/61

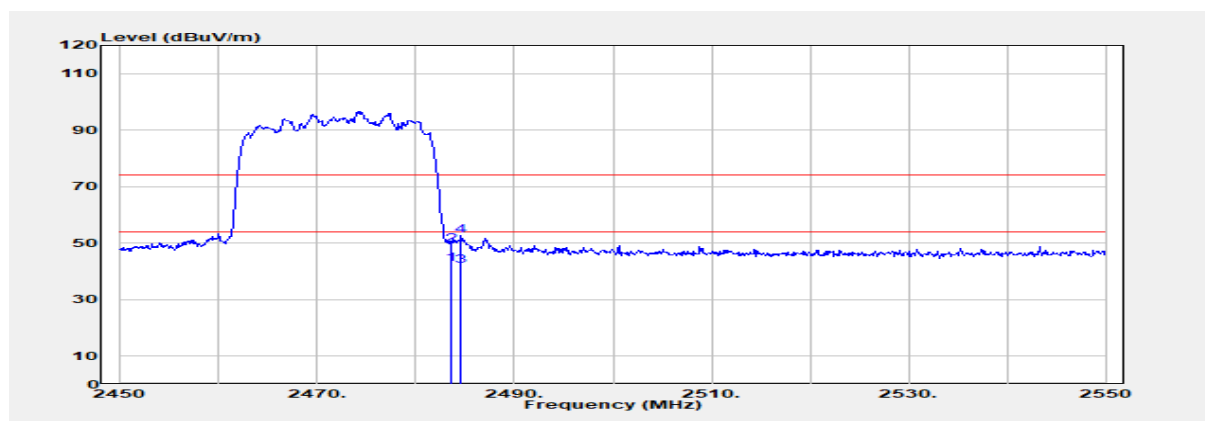
Test Mode :BE CH 13 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :2.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.42	-3.92	42.50	54.00	-11.50
2483.500	Peak	53.43	-3.92	49.51	74.00	-24.49
2484.600	Average	45.89	-3.91	41.97	54.00	-12.03
2484.600	Peak	56.62	-3.91	52.71	74.00	-21.29

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-16

Test Frequency :2422 MHz

Temp./Humi. :25.9/64

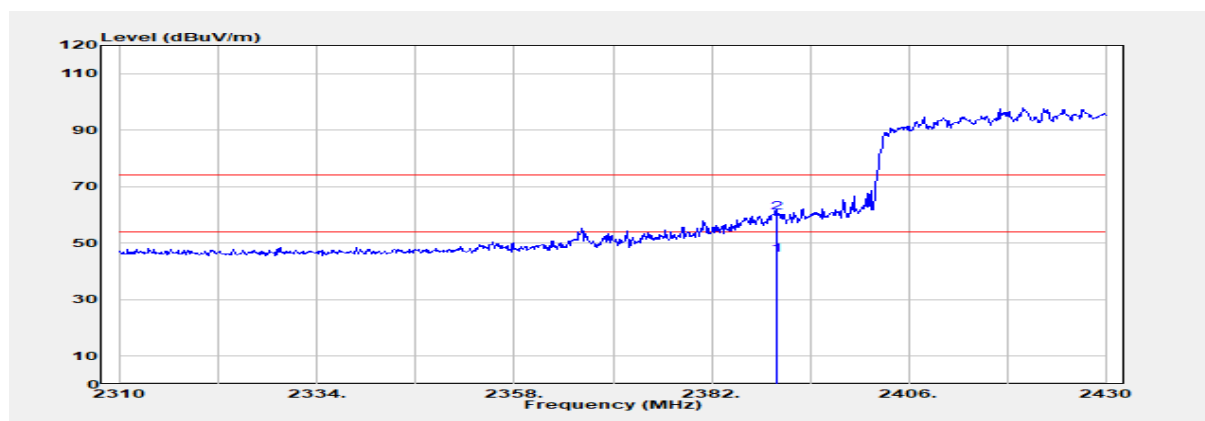
Test Mode :BE CH 3 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	49.55	-3.80	45.74	54.00	-8.26
2390.000	Peak	64.60	-3.80	60.80	74.00	-13.20

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-23

Test Frequency :2422 MHz

Temp./Humi. :25.9/64

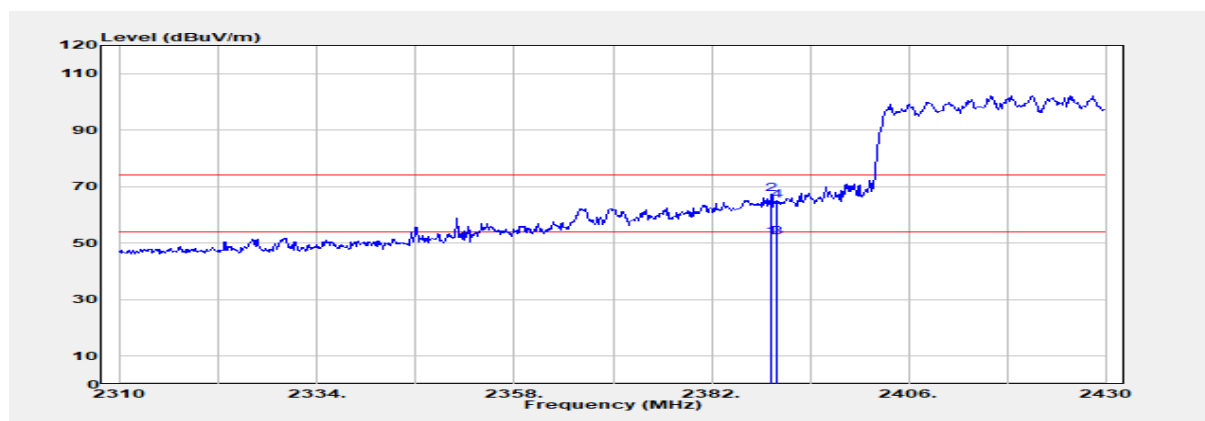
Test Mode :BE CH 3 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.320	Average	55.74	-3.80	51.94	54.00	-2.06
2389.320	Peak	71.16	-3.80	67.37	74.00	-6.63
2390.000	Average	55.79	-3.80	51.99	54.00	-2.01
2390.000	Peak	68.72	-3.80	64.92	74.00	-9.08

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2427 MHz

Temp./Humi. :24.5/60

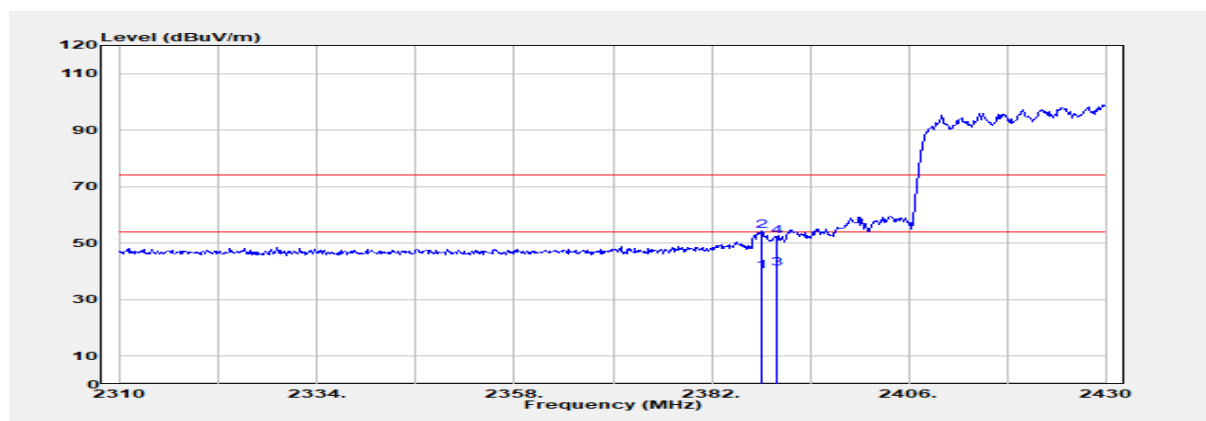
Test Mode :BE CH 4 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.120	Average	43.91	-3.79	40.12	54.00	-13.88
2388.120	Peak	58.10	-3.79	54.30	74.00	-19.70
2390.000	Average	44.80	-3.80	41.00	54.00	-13.00
2390.000	Peak	56.16	-3.80	52.36	74.00	-21.64

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2427 MHz

Temp./Humi. :24.5/60

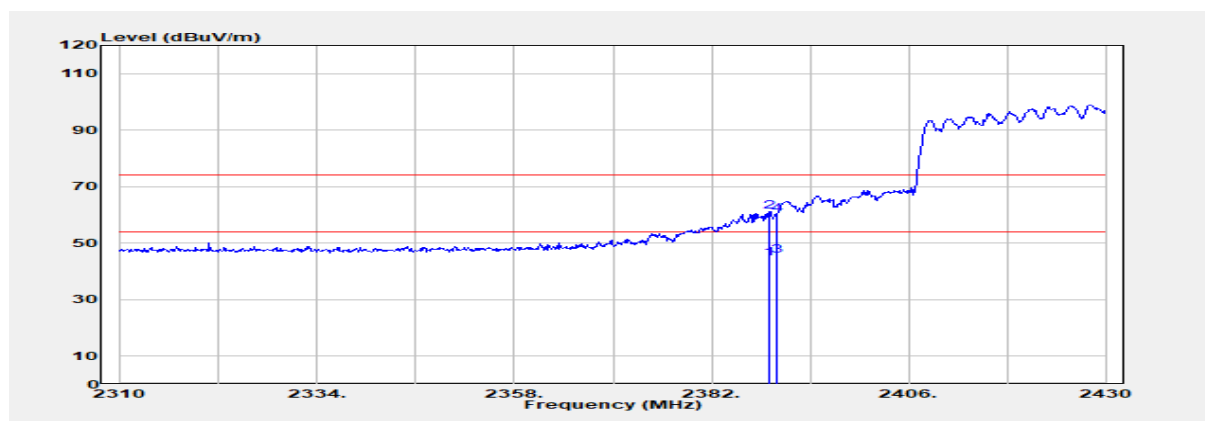
Test Mode :BE CH 4 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.080	Average	48.35	-3.80	44.56	54.00	-9.44
2389.080	Peak	65.07	-3.80	61.27	74.00	-12.73
2390.000	Average	49.35	-3.80	45.55	54.00	-8.45
2390.000	Peak	63.94	-3.80	60.14	74.00	-13.86

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2447 MHz

Temp./Humi. :24.5/60

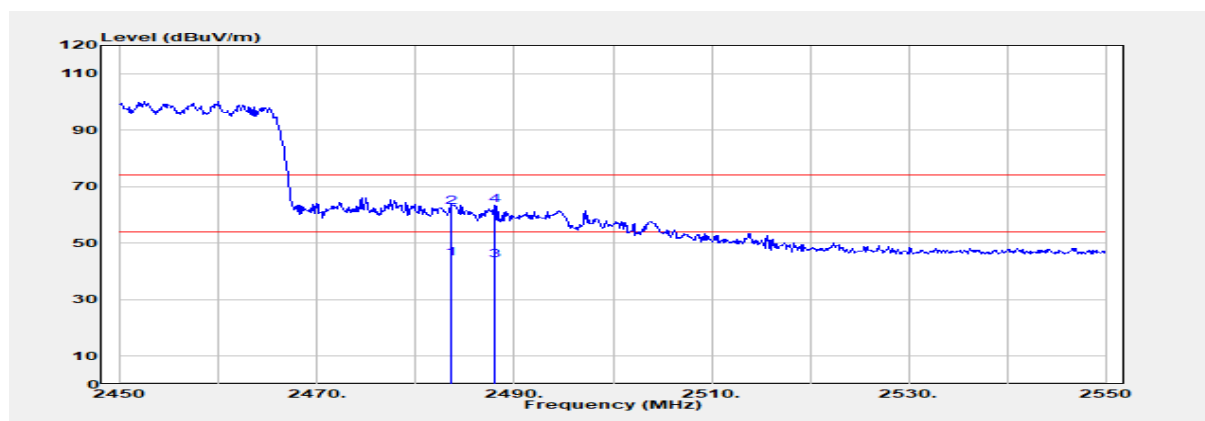
Test Mode :BE CH 8 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.58	-3.92	44.66	54.00	-9.34
2483.500	Peak	66.63	-3.92	62.71	74.00	-11.29
2487.900	Average	47.83	-3.89	43.94	54.00	-10.06
2487.900	Peak	67.19	-3.89	63.29	74.00	-10.71

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2447 MHz

Temp./Humi. :24.5/60

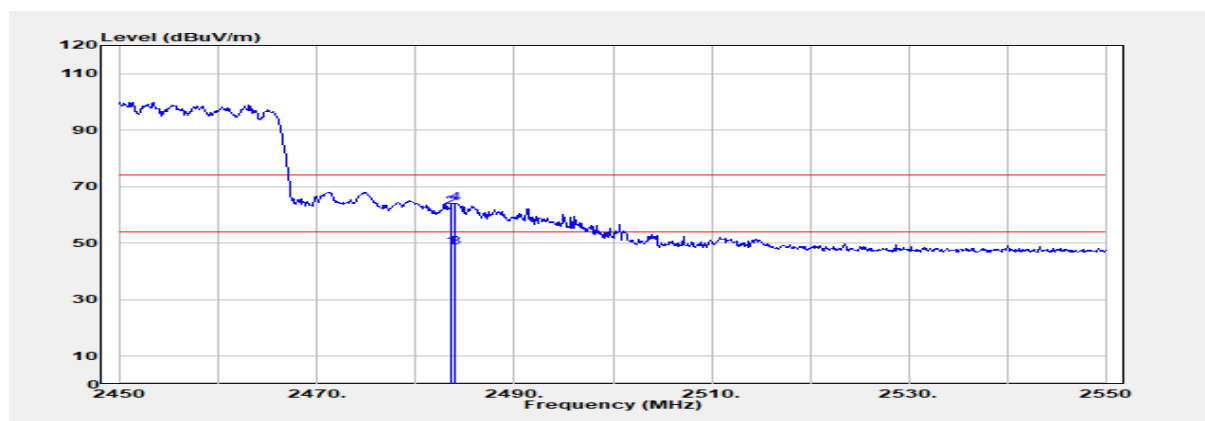
Test Mode :BE CH 8 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.51	-3.92	48.59	54.00	-5.41
2483.500	Peak	66.71	-3.92	62.79	74.00	-11.21
2483.900	Average	52.42	-3.92	48.50	54.00	-5.50
2483.900	Peak	68.05	-3.92	64.14	74.00	-9.86

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2452 MHz

Temp./Humi. :24.5/60

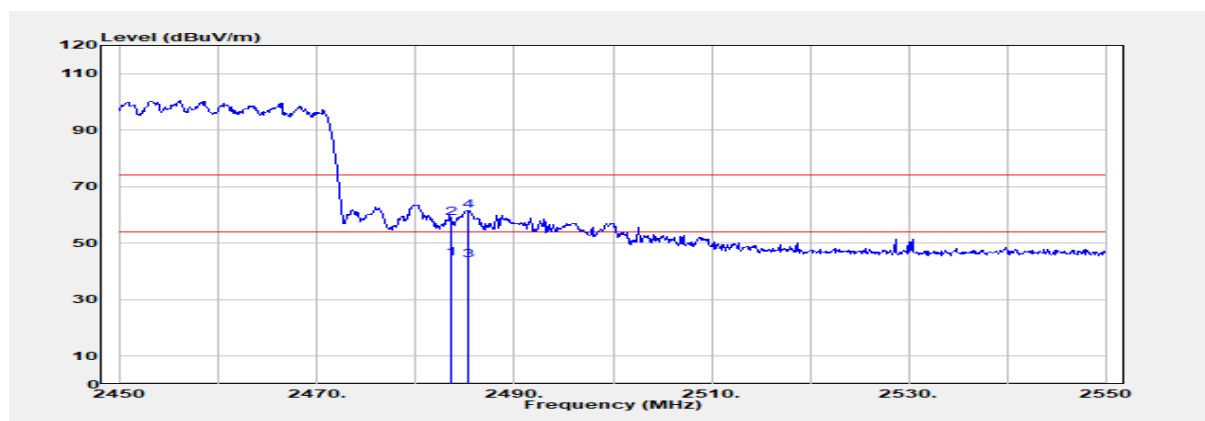
Test Mode :BE CH 9 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng

Setting :13.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.34	-3.92	44.43	54.00	-9.57
2483.500	Peak	62.93	-3.92	59.01	74.00	-14.99
2485.300	Average	47.87	-3.91	43.96	54.00	-10.04
2485.300	Peak	65.36	-3.91	61.45	74.00	-12.55

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2452 MHz

Temp./Humi. :24.5/60

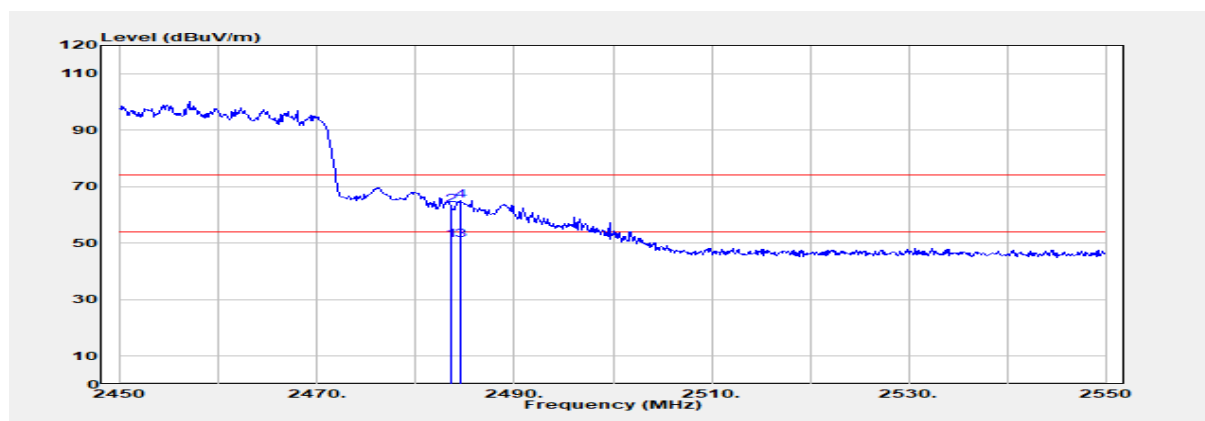
Test Mode :BE CH 9 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Jack Tseng

Setting :13.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	55.11	-3.92	51.19	54.00	-2.81
2483.500	Peak	67.29	-3.92	63.37	74.00	-10.63
2484.600	Average	54.87	-3.91	50.95	54.00	-3.05
2484.600	Peak	68.94	-3.91	65.03	74.00	-8.97

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2457 MHz

Temp./Humi. :24.5/60

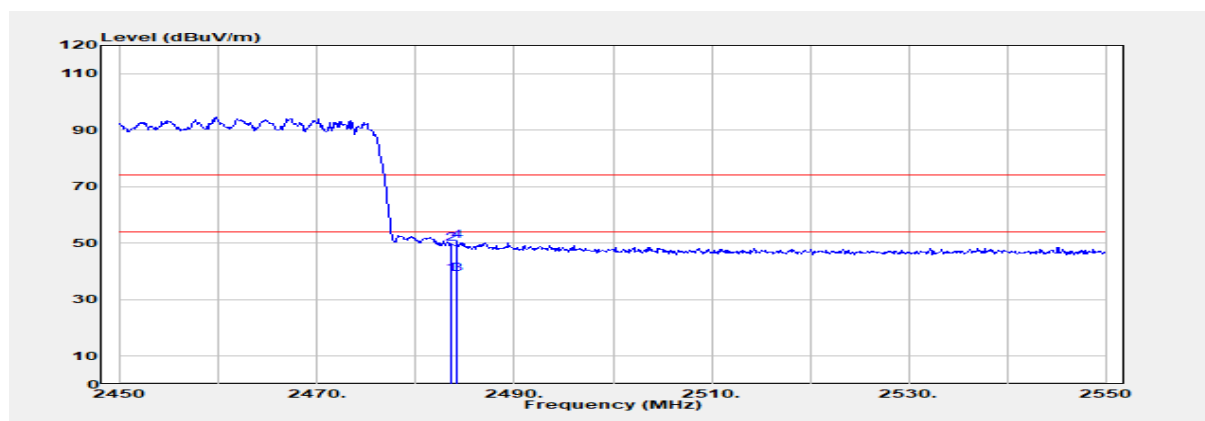
Test Mode :BE CH 10 RU Full

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :6.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.06	-3.92	39.14	54.00	-14.86
2483.500	Peak	53.74	-3.92	49.82	74.00	-24.18
2484.200	Average	42.95	-3.91	39.04	54.00	-14.96
2484.200	Peak	54.53	-3.91	50.62	74.00	-23.38

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Report Number :E2/2021/80019

Operation Mode :802.11ax40

Test Frequency :2457 MHz

Test Mode :BE CH 10 RU Full

EUT Pol :NB Plane

Setting :6.5

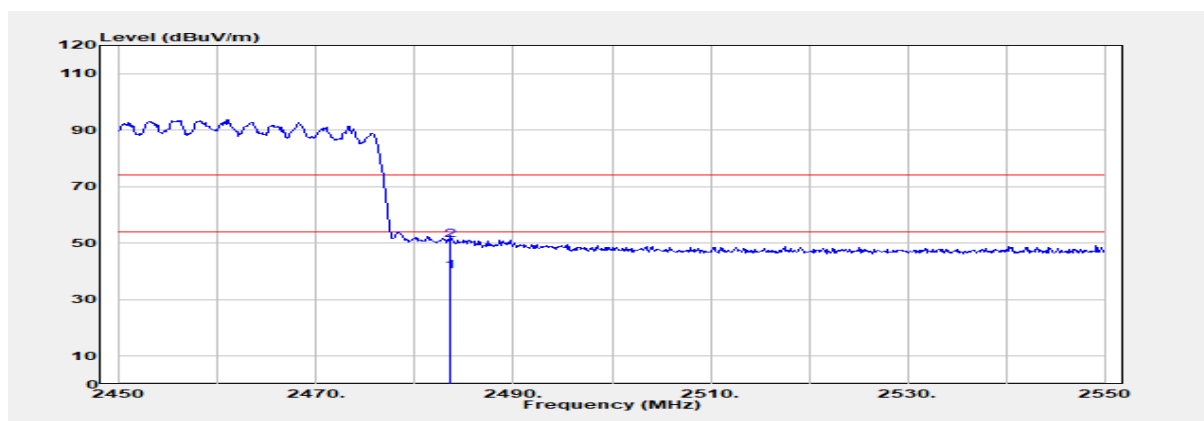
Test Site :SAC G

Test Date :2021-08-19

Temp./Humi. :24.5/60

Antenna Pol. :Horizontal

Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.07	-3.92	40.15	54.00	-13.85
2483.500	Peak	55.07	-3.92	51.15	74.00	-22.85

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Report Number :E2/2021/80019

Operation Mode :802.11ax40

Test Frequency :2462 MHz

Test Mode :BE CH 11 RU Full

EUT Pol :NB Plane

Setting :4.5

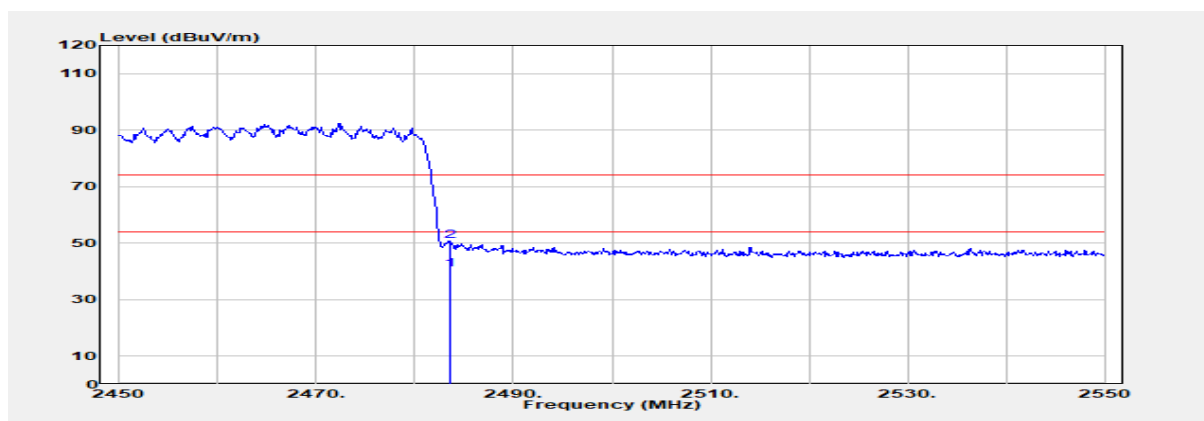
Test Site :SAC G

Test Date :2021-08-19

Temp./Humi. :24.5/60

Antenna Pol. :Vertical

Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.73	-3.92	40.81	54.00	-13.19
2483.500	Peak	54.80	-3.92	50.88	74.00	-23.12

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Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11ax40

Test Date :2021-08-19

Test Frequency :2462 MHz

Temp./Humi. :24.5/60

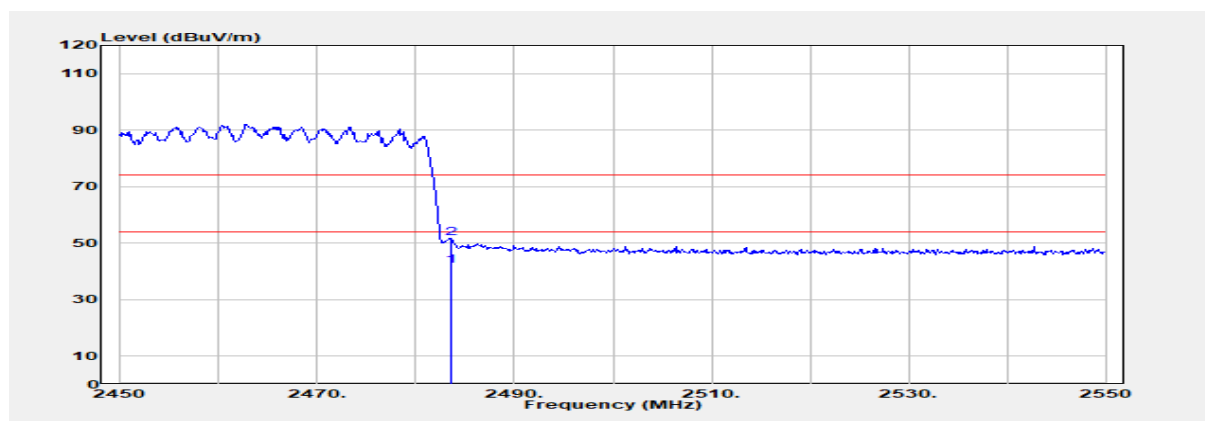
Test Mode :BE CH 11 RU Full

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :4.5



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.73	-3.92	41.81	54.00	-12.19
2483.500	Peak	55.60	-3.92	51.68	74.00	-22.32

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### 7.7.2 Spurious Emission:

Report Number :E2/2021/80019

Test Site :SAC G

Operation Mode :802.11b

Test Date :2021-08-19

Test Frequency :2437 MHz

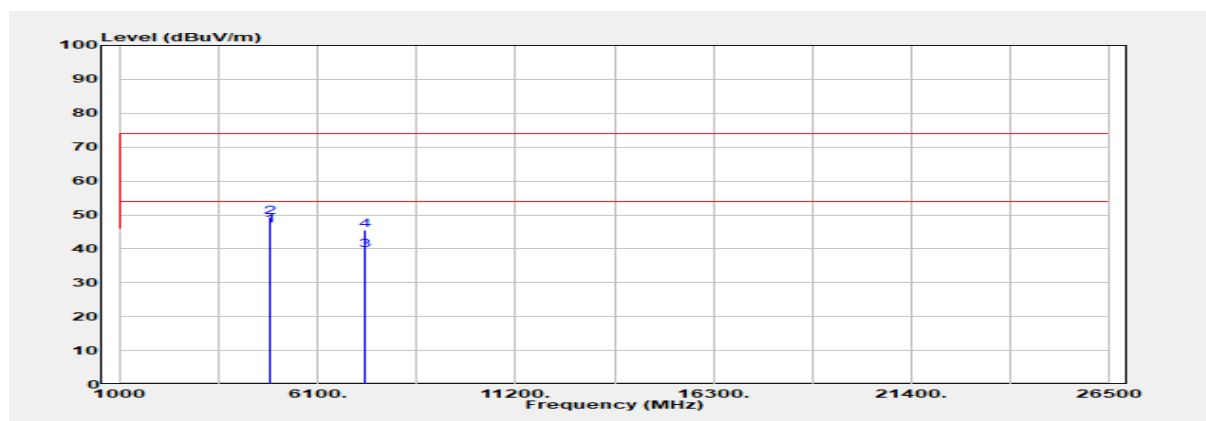
Temp./Humi. :24.5/60

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	43.78	3.23	47.01	54.00	-6.99
4874.000	Peak	46.01	3.23	49.24	74.00	-24.76
7311.000	Average	31.75	7.68	39.43	54.00	-14.57
7311.000	Peak	37.91	7.68	45.59	74.00	-28.41

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Report Number :E2/2021/80019

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :TX CH MID

EUT Pol :NB Plane

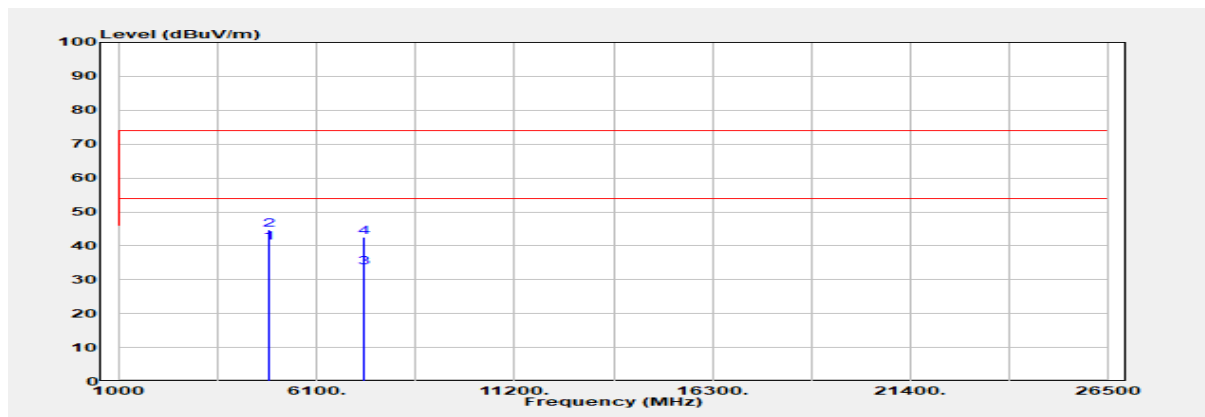
Test Site :SAC G

Test Date :2021-08-19

Temp./Humi. :24.5/60

Antenna Pol. :Horizontal

Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	37.74	3.23	40.97	54.00	-13.03
4874.000	Peak	41.38	3.23	44.61	74.00	-29.39
7311.000	Average	25.83	7.68	33.51	54.00	-20.49
7311.000	Peak	34.84	7.68	42.52	74.00	-31.48

~ End of Report ~

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