

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: 802.11 a/b/g/n/ac RTL8822CE Combo Module

Brand Name: Acer

Model No.: RTL8822CE

Model Difference: N/A

Report Number: E2/2021/80035

FCC ID HLZRTL8822CE

IC: 1754F-RTL8822CE

Issue Date: October 7, 2021

Date of Test: August 9, 2021 ~ August 17, 2021

Date of EUT Received: August 9, 2021

Approved By

Jay Lin

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
E2/2021/80035	00	Original	October 7, 2021	Yuri Tsai

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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 Marketing Purpose
Hardware Version:	N/A
Software Version:	N/A
EUT Series No.:	N/A
Model No. of BT/WLAN Module:	RTL8822CE
Class II & Class IV Permissive change:	802.11 a/b/g/n/ac RTL8822CE Combo Module INSTALLED IN Notebook Computer
Power Supply:	11.55Vdc from Rechargeable Li-ion Battery or 5V/ 9V/ 12V/ 15/ 20Vdc 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	2412~2462	13	25.73	DSSS
802.11g	2412~2462	13	27.84	OFDM
802.11ac20	2412~2462	13	29.60	OFDM
802.11ac40	2422~2452	9	28.52	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM		
		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 - 144.4Mbps		
		802.11 n_40MHz: 13.5 - 300Mbps		
		802.11 ac_20MHz: 6.5 - 173.3 Mbps		
		802.11 ac_40MHz: 13.5 - 400 Mbps		

WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2462	13	25.73	28.97	DSSS
802.11g	2412~2462	13	27.84	28.94	OFDM
802.11ac20	2412~2462	13	29.60	28.93	OFDM
802.11ac40	2422~2452	9	28.52	24.89	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM			
		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 - 144.4Mbps			
		802.11 n_40MHz: 13.5 - 300Mbps			
		802.11 ac_20MHz: 6.5 - 173.3 Mbps			
		802.11 ac_40MHz: 13.5 - 400 Mbps			

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	DQ6K15G5900(81EABK15.G59)	Main	2.4GHz	2.80	V
	WNC	DQ6K15G5900(81EABK15.G59)	Aux	2.4GHz	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 DTS 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		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: 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 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.

2.3.2 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 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration

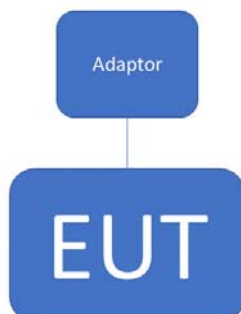


Fig. 2-2 Conducted (Antenna Port) Configuration Emission



Table 2-1 Equipment Used in Tested System

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	LITEON	PA-1650-58	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 Operated in 2400 ~ 2483.5MHz Band

13 channels are provided for 802.11b/g/n/ac 20M.

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

11 channels are provided for 802.11n/ac 40M

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

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. aTest 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 gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				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 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 checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input checked="" type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<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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4.3 Radiated Emission Test:

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,6,11,12,13	DSSS	1	2TX

The field strength of radiation emission was measured as NB plane. *Transmitter for channel Low, Mid and High.*

4.4 Antenna Port Conducted Measurement:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Peak Output Power	+/- 1 dB

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.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form 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.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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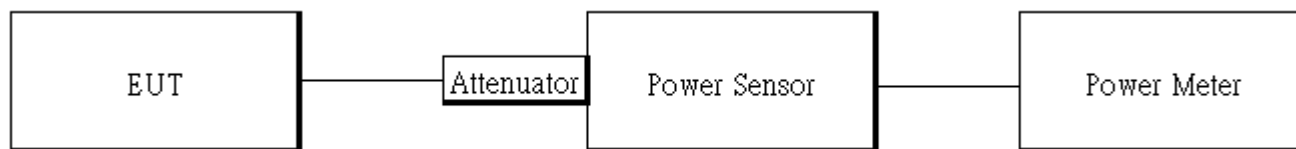
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6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022
Attenuator	Marvelous	WATT-218FS-10	RF15	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021

6.3 Test Set-up

Power Meter:



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 is compensated to obtain the maximum value of measurement in average.**

6.5 Measurement Result

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802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	87	20.52	30.00	PASS
6	2437	1	97	22.48	30.00	PASS
11	2462	1	86	20.58	30.00	PASS
12	2467	1	65	15.73	30.00	PASS
13	2472	1	49	11.88	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	87	19.57	30.00	PASS
6	2437	1	97	20.95	30.00	PASS
11	2462	1	86	18.73	30.00	PASS
12	2467	1	65	14.14	30.00	PASS
13	2472	1	49	9.84	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	87	20.63	30.00	PASS
6	2437	1	97	22.57	30.00	PASS
11	2462	1	86	20.65	30.00	PASS
12	2467	1	65	15.81	30.00	PASS
13	2472	1	49	11.98	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	87	19.65	30.00	PASS
6	2437	1	97	21.03	30.00	PASS
11	2462	1	86	18.84	30.00	PASS
12	2467	1	65	14.22	30.00	PASS
13	2472	1	49	9.92	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	102	13.35	14.69	17.08	30.00	PASS
6	2437	1	109	21.34	23.76	25.73	30.00	PASS
11	2462	1	102	12.83	15.21	17.19	30.00	PASS
12	2467	1	83	6.85	8.36	10.68	30.00	PASS
13	2472	1	69	4.48	5.97	8.30	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	102	18.32	20.85	22.78	30.00	PASS
6	2437	1	109	19.58	21.98	23.95	30.00	PASS
11	2462	1	102	17.35	20.44	22.17	30.00	PASS
12	2467	1	83	13.09	15.32	17.36	30.00	PASS
13	2472	1	69	8.58	10.93	12.92	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	57	24.15	30.00	PASS
2	2417	6	66	25.54	30.00	PASS
6	2437	6	86	27.75	30.00	PASS
10	2457	6	67	25.49	30.00	PASS
11	2462	6	59	23.85	30.00	PASS
12	2467	6	48	21.01	30.00	PASS
13	2472	6	35	17.89	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	57	13.87	30.00	PASS
2	2417	6	66	16.15	30.00	PASS
6	2437	6	86	20.74	30.00	PASS
10	2457	6	67	15.86	30.00	PASS
11	2462	6	59	13.82	30.00	PASS
12	2467	6	48	11.11	30.00	PASS
13	2472	6	35	7.97	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	57	24.19	30.00	PASS
2	2417	6	66	25.62	30.00	PASS
6	2437	6	87	27.84	30.00	PASS
10	2457	6	67	25.54	30.00	PASS
11	2462	6	59	24.02	30.00	PASS
12	2467	6	49	21.19	30.00	PASS
13	2472	6	35	18.05	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	57	13.96	30.00	PASS
2	2417	6	66	16.25	30.00	PASS
6	2437	6	87	20.85	30.00	PASS
10	2457	6	67	15.95	30.00	PASS
11	2462	6	59	13.93	30.00	PASS
12	2467	6	49	11.17	30.00	PASS
13	2472	6	35	8.09	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	82	13.17	14.92	17.14	30.00	PASS
2	2417	6	90	14.42	16.83	18.80	30.00	PASS
6	2437	6	110	21.46	23.96	25.90	30.00	PASS
10	2457	6	92	16.01	16.98	19.53	30.00	PASS
11	2462	6	82	13.17	14.05	16.64	30.00	PASS
12	2467	6	73	10.94	12.65	14.89	30.00	PASS
13	2472	6	63	8.35	10.34	12.47	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	82	13.08	14.63	16.93	30.00	PASS
2	2417	6	90	15.05	16.94	19.11	30.00	PASS
6	2437	6	110	19.54	21.95	23.92	30.00	PASS
10	2457	6	92	14.45	17.22	19.06	30.00	PASS
11	2462	6	82	12.51	14.94	16.90	30.00	PASS
12	2467	6	73	9.72	12.24	14.17	30.00	PASS
13	2472	6	63	6.97	9.04	11.14	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	66	15.63	30.00	PASS
2	2417	MCS0	76	17.89	30.00	PASS
6	2437	MCS0	98	22.46	30.00	PASS
10	2457	MCS0	76	17.56	30.00	PASS
11	2462	MCS0	66	15.82	30.00	PASS
12	2467	MCS0	54	12.99	30.00	PASS
13	2472	MCS0	42	10.02	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	66	13.94	30.00	PASS
2	2417	MCS0	76	15.98	30.00	PASS
6	2437	MCS0	98	20.62	30.00	PASS
10	2457	MCS0	76	15.71	30.00	PASS
11	2462	MCS0	66	13.95	30.00	PASS
12	2467	MCS0	54	11.13	30.00	PASS
13	2472	MCS0	42	8.10	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	65	15.75	30.00	PASS
2	2417	MCS0	76	18.01	30.00	PASS
6	2437	MCS0	98	22.57	30.00	PASS
10	2457	MCS0	76	17.69	30.00	PASS
11	2462	MCS0	66	15.91	30.00	PASS
12	2467	MCS0	54	13.14	30.00	PASS
13	2472	MCS0	42	10.18	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	65	13.96	30.00	PASS
2	2417	MCS0	76	16.07	30.00	PASS
6	2437	MCS0	98	20.73	30.00	PASS
10	2457	MCS0	76	15.78	30.00	PASS
11	2462	MCS0	66	14.03	30.00	PASS
12	2467	MCS0	54	11.18	30.00	PASS
13	2472	MCS0	42	8.18	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	71	22.45	24.97	26.90	30.00	PASS
2	2417	MCS8	78	23.45	26.12	28.00	30.00	PASS
6	2437	MCS8	100	25.45	27.49	29.60	30.00	PASS
10	2457	MCS8	79	23.65	25.98	27.98	30.00	PASS
11	2462	MCS8	71	21.89	25.02	26.74	30.00	PASS
12	2467	MCS8	62	19.64	23.08	24.70	30.00	PASS
13	2472	MCS8	49	16.72	20.17	21.79	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	71	13.26	14.96	17.20	30.00	PASS
2	2417	MCS8	78	14.97	16.85	19.02	30.00	PASS
6	2437	MCS8	100	19.49	21.96	23.91	30.00	PASS
10	2457	MCS8	79	14.31	16.97	18.85	30.00	PASS
11	2462	MCS8	71	12.48	15.26	17.10	30.00	PASS
12	2467	MCS8	62	9.65	12.24	14.15	30.00	PASS
13	2472	MCS8	49	6.84	9.07	11.11	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	76	17.03	30.00	PASS
4	2427	MCS0	76	17.05	30.00	PASS
6	2437	MCS0	92	21.02	30.00	PASS
8	2447	MCS0	80	17.95	30.00	PASS
9	2452	MCS0	80	18.02	30.00	PASS
10	2457	MCS0	67	14.86	30.00	PASS
11	2462	MCS0	53	11.45	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	76	12.86	30.00	PASS
4	2427	MCS0	76	12.81	30.00	PASS
6	2437	MCS0	92	16.63	30.00	PASS
8	2447	MCS0	80	13.90	30.00	PASS
9	2452	MCS0	80	13.82	30.00	PASS
10	2457	MCS0	67	10.75	30.00	PASS
11	2462	MCS0	53	7.36	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	76	17.16	30.00	PASS
4	2427	MCS0	76	17.12	30.00	PASS
6	2437	MCS0	92	21.15	30.00	PASS
8	2447	MCS0	80	18.09	30.00	PASS
9	2452	MCS0	80	18.15	30.00	PASS
10	2457	MCS0	67	14.95	30.00	PASS
11	2462	MCS0	53	11.51	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	76	12.95	30.00	PASS
4	2427	MCS0	76	12.93	30.00	PASS
6	2437	MCS0	92	16.78	30.00	PASS
8	2447	MCS0	80	13.97	30.00	PASS
9	2452	MCS0	80	13.94	30.00	PASS
10	2457	MCS0	67	10.83	30.00	PASS
11	2462	MCS0	53	7.44	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	67	22.38	23.85	26.19	30.00	PASS
4	2427	MCS8	68	22.13	24.25	26.33	30.00	PASS
6	2437	MCS8	83	24.45	26.36	28.52	30.00	PASS
8	2447	MCS8	72	22.43	25.24	27.07	30.00	PASS
9	2452	MCS8	72	22.43	24.89	26.84	30.00	PASS
10	2457	MCS8	61	19.98	22.64	24.52	30.00	PASS
11	2462	MCS8	49	16.79	19.12	21.12	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	67	11.95	13.59	15.86	30.00	PASS
4	2427	MCS8	68	11.75	13.85	15.94	30.00	PASS
6	2437	MCS8	83	15.35	17.98	19.87	30.00	PASS
8	2447	MCS8	72	12.59	15.16	17.07	30.00	PASS
9	2452	MCS8	72	12.67	15.28	17.18	30.00	PASS
10	2457	MCS8	61	9.55	12.16	14.06	30.00	PASS
11	2462	MCS8	49	6.36	8.47	10.55	30.00	PASS

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EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	19.57	1.15	20.72	36	PASS
6	2437	1	20.95	1.15	22.10	36	PASS
11	2462	1	18.73	1.15	19.88	36	PASS
12	2467	1	14.14	1.15	15.29	36	PASS
13	2472	1	9.84	1.15	10.99	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	19.65	2.80	22.45	36	PASS
6	2437	1	21.03	2.80	23.83	36	PASS
11	2462	1	18.84	2.80	21.64	36	PASS
12	2467	1	14.22	2.80	17.02	36	PASS
13	2472	1	9.92	2.80	12.72	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	18.32	20.85	22.78	5.02	27.80	36	PASS
6	2437	1	19.58	21.98	23.95	5.02	28.97	36	PASS
11	2462	1	17.35	20.44	22.17	5.02	27.19	36	PASS
12	2467	1	13.09	15.32	17.36	5.02	22.38	36	PASS
13	2472	1	8.58	10.93	12.92	5.02	17.94	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	13.87	1.15	15.02	36	PASS
2	2417	6	16.15	1.15	17.30	36	PASS
6	2437	6	20.74	1.15	21.89	36	PASS
10	2457	6	15.86	1.15	17.01	36	PASS
11	2462	6	13.82	1.15	14.97	36	PASS
12	2467	6	11.11	1.15	12.26	36	PASS
13	2472	6	7.97	1.15	9.12	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	13.96	2.80	16.76	36	PASS
2	2417	6	16.25	2.80	19.05	36	PASS
6	2437	6	20.85	2.80	23.65	36	PASS
10	2457	6	15.95	2.80	18.75	36	PASS
11	2462	6	13.93	2.80	16.73	36	PASS
12	2467	6	11.17	2.80	13.97	36	PASS
13	2472	6	8.09	2.80	10.89	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	13.08	14.63	16.93	5.02	21.95	36	PASS
2	2417	6	15.05	16.94	19.11	5.02	24.13	36	PASS
6	2437	6	19.54	21.95	23.92	5.02	28.94	36	PASS
10	2457	6	14.45	17.22	19.06	5.02	24.08	36	PASS
11	2462	6	12.51	14.94	16.90	5.02	21.92	36	PASS
12	2467	6	9.72	12.24	14.17	5.02	19.19	36	PASS
13	2472	6	6.97	9.04	11.14	5.02	16.16	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	13.94	1.15	15.09	36	PASS
2	2417	MCS0	15.98	1.15	17.13	36	PASS
6	2437	MCS0	20.62	1.15	21.77	36	PASS
10	2457	MCS0	15.71	1.15	16.86	36	PASS
11	2462	MCS0	13.95	1.15	15.10	36	PASS
12	2467	MCS0	11.13	1.15	12.28	36	PASS
13	2472	MCS0	8.10	1.15	9.25	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	13.96	2.80	16.76	36	PASS
2	2417	MCS0	16.07	2.80	18.87	36	PASS
6	2437	MCS0	20.73	2.80	23.53	36	PASS
10	2457	MCS0	15.78	2.80	18.58	36	PASS
11	2462	MCS0	14.03	2.80	16.83	36	PASS
12	2467	MCS0	11.18	2.80	13.98	36	PASS
13	2472	MCS0	8.18	2.80	10.98	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	13.26	14.96	17.20	5.02	22.22	36	PASS
2	2417	MCS8	14.97	16.85	19.02	5.02	24.04	36	PASS
6	2437	MCS8	19.49	21.96	23.91	5.02	28.93	36	PASS
10	2457	MCS8	14.31	16.97	18.85	5.02	23.87	36	PASS
11	2462	MCS8	12.48	15.26	17.10	5.02	22.12	36	PASS
12	2467	MCS8	9.65	12.24	14.15	5.02	19.17	36	PASS
13	2472	MCS8	6.84	9.07	11.11	5.02	16.13	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	12.86	1.15	14.01	36	PASS
4	2427	MCS0	12.81	1.15	13.96	36	PASS
6	2437	MCS0	16.63	1.15	17.78	36	PASS
8	2447	MCS0	13.90	1.15	15.05	36	PASS
9	2452	MCS0	13.82	1.15	14.97	36	PASS
10	2457	MCS0	10.75	1.15	11.90	36	PASS
11	2462	MCS0	7.36	1.15	8.51	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	12.95	2.80	15.75	36	PASS
4	2427	MCS0	12.93	2.80	15.73	36	PASS
6	2437	MCS0	16.78	2.80	19.58	36	PASS
8	2447	MCS0	13.97	2.80	16.77	36	PASS
9	2452	MCS0	13.94	2.80	16.74	36	PASS
10	2457	MCS0	10.83	2.80	13.63	36	PASS
11	2462	MCS0	7.44	2.80	10.24	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	11.95	13.59	15.86	5.02	20.88	36	PASS
4	2427	MCS8	11.75	13.85	15.94	5.02	20.96	36	PASS
6	2437	MCS8	15.35	17.98	19.87	5.02	24.89	36	PASS
8	2447	MCS8	12.59	15.16	17.07	5.02	22.09	36	PASS
9	2452	MCS8	12.67	15.28	17.18	5.02	22.20	36	PASS
10	2457	MCS8	9.55	12.16	14.06	5.02	19.08	36	PASS
11	2462	MCS8	6.36	8.47	10.55	5.02	15.57	36	PASS

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

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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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

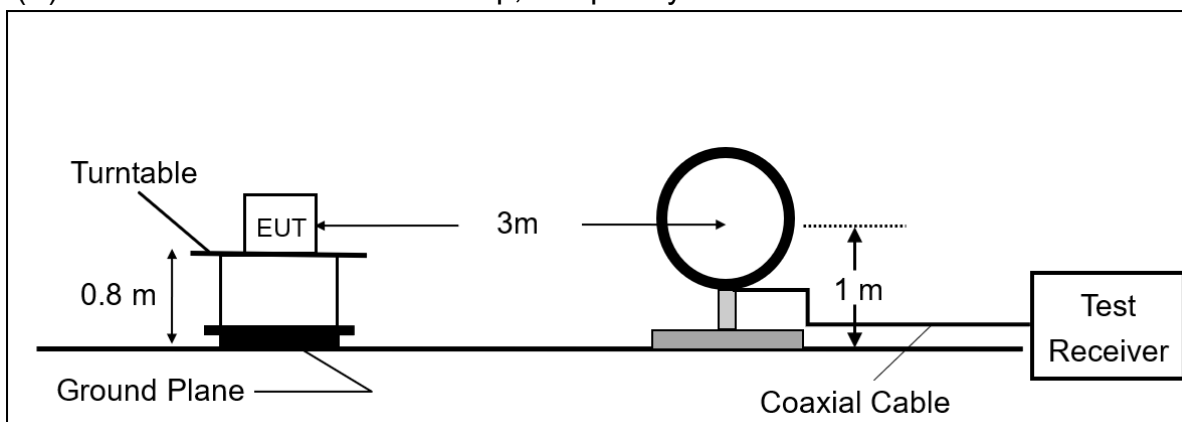
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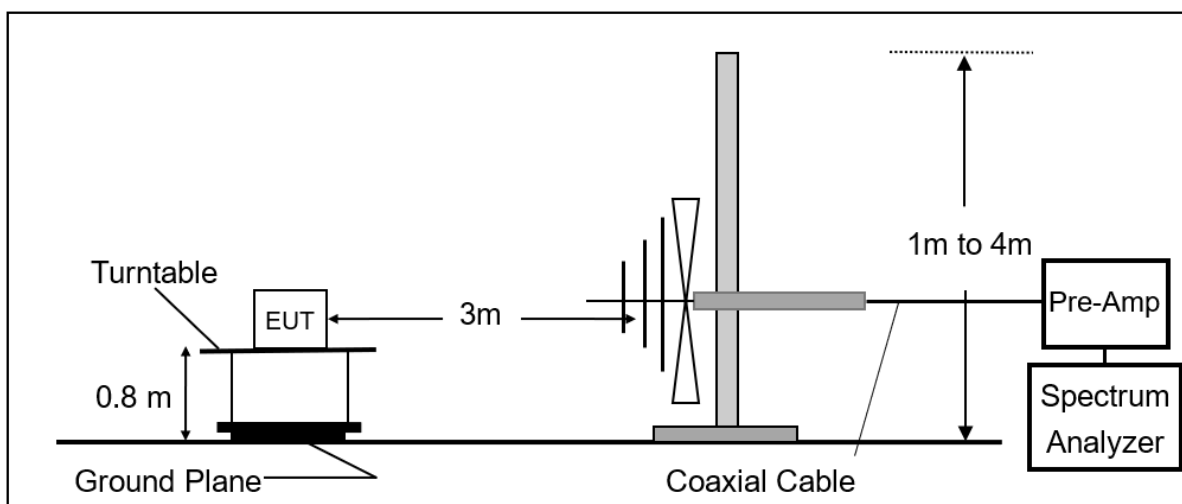
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7.3 Test SET-UP

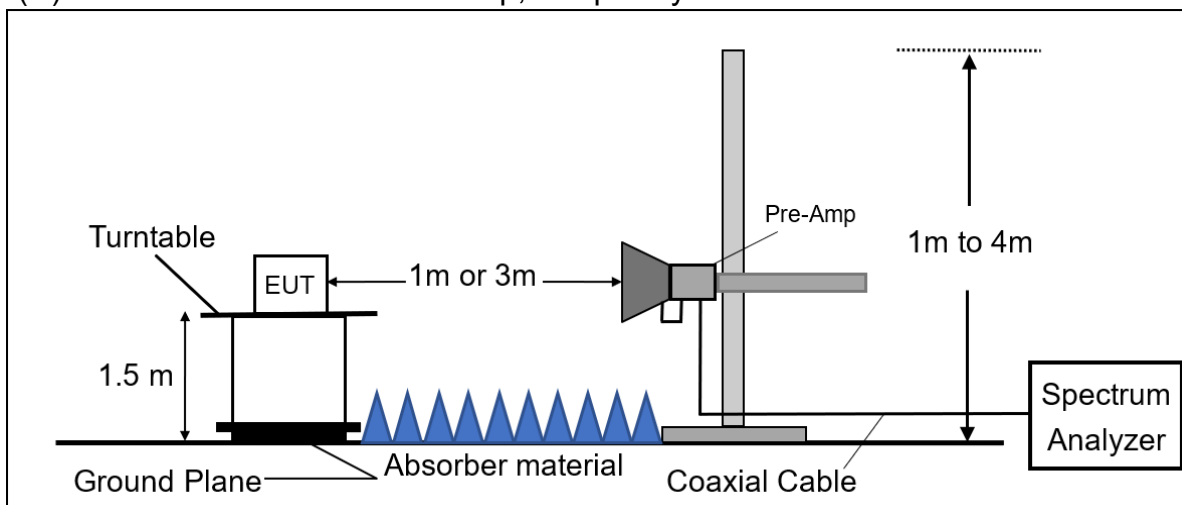
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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. 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.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
9. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
10. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
13. 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 :E2/2021/80035

Test Site :SAC C

Operation Mode :802.11b

Test Date :2021-08-09

Test Frequency :2412 MHz

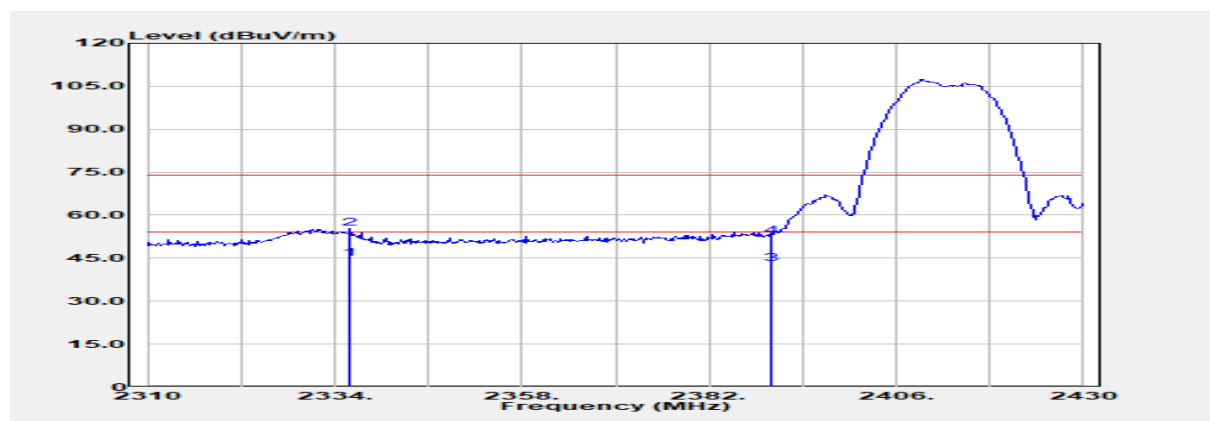
Temp./Humi. :24.2/55

Test Mode :BE CH 01

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2335.961	Average	39.37	5.43	44.80	54.00	-9.20
2335.961	Peak	49.82	5.43	55.25	74.00	-18.75
2390.000	Average	37.94	5.18	43.12	54.00	-10.88
2390.000	Peak	47.60	5.18	52.78	74.00	-21.22

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :BE CH 01

EUT Pol :NB Plane

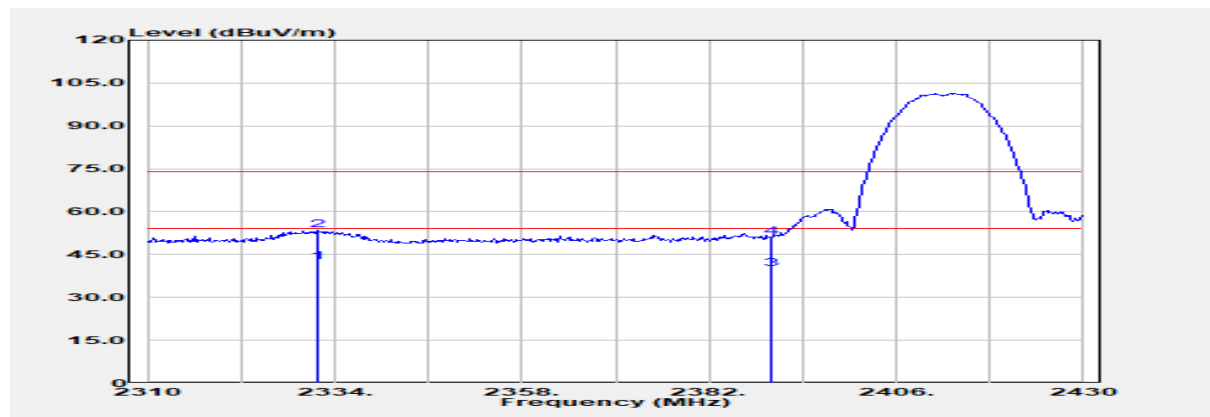
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2331.731	Average	36.84	5.62	42.46	54.00	-11.54
2331.731	Peak	47.89	5.62	53.51	74.00	-20.49
2390.000	Average	34.72	5.18	39.90	54.00	-14.10
2390.000	Peak	45.95	5.18	51.13	74.00	-22.87

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

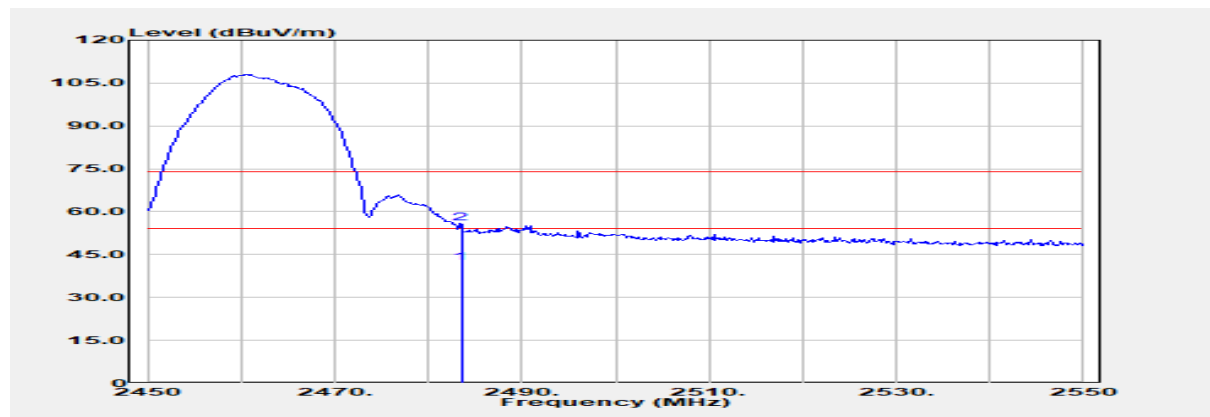
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	38.11	4.04	42.15	54.00	-11.85
2483.500	Peak	51.76	4.04	55.79	74.00	-18.21

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

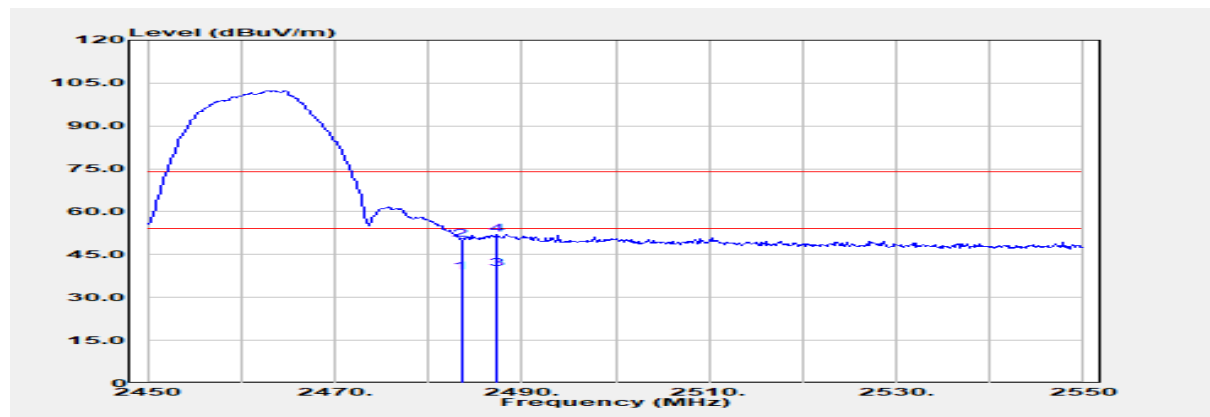
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	34.91	4.04	38.95	54.00	-15.05
2483.500	Peak	46.23	4.04	50.26	74.00	-23.74
2487.179	Average	35.88	4.00	39.88	54.00	-14.12
2487.179	Peak	48.02	4.00	52.02	74.00	-21.98

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :NB Plane

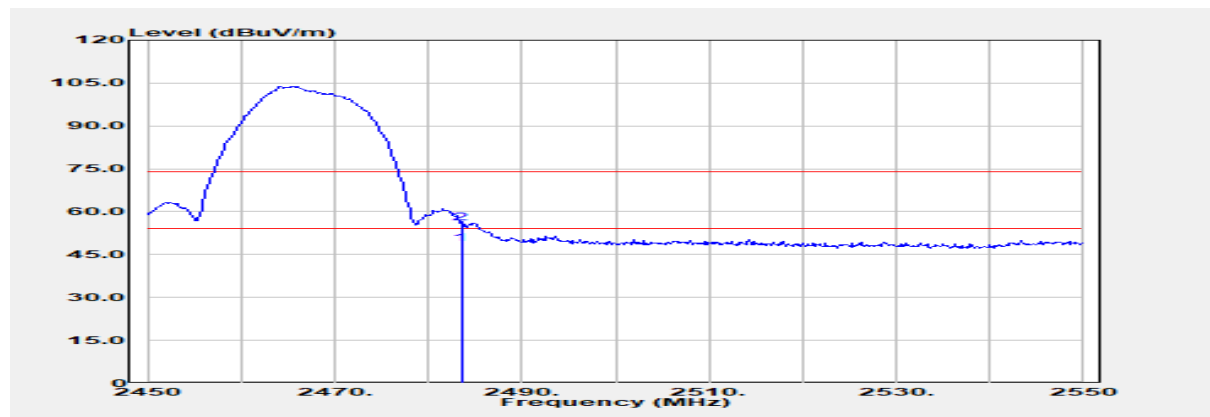
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.73	4.04	48.77	54.00	-5.23
2483.500	Peak	52.05	4.04	56.09	74.00	-17.91

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :NB Plane

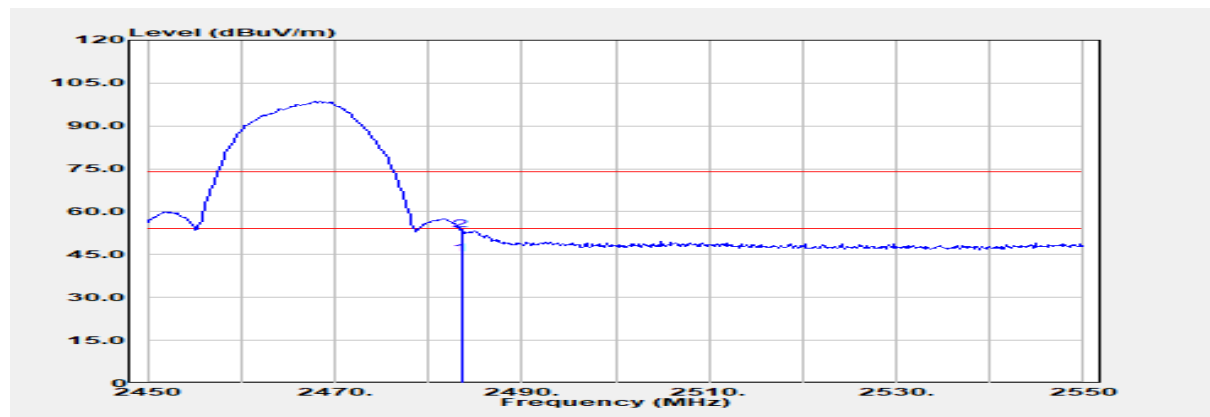
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	40.98	4.04	45.02	54.00	-8.98
2483.500	Peak	49.41	4.04	53.44	74.00	-20.56

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :NB Plane

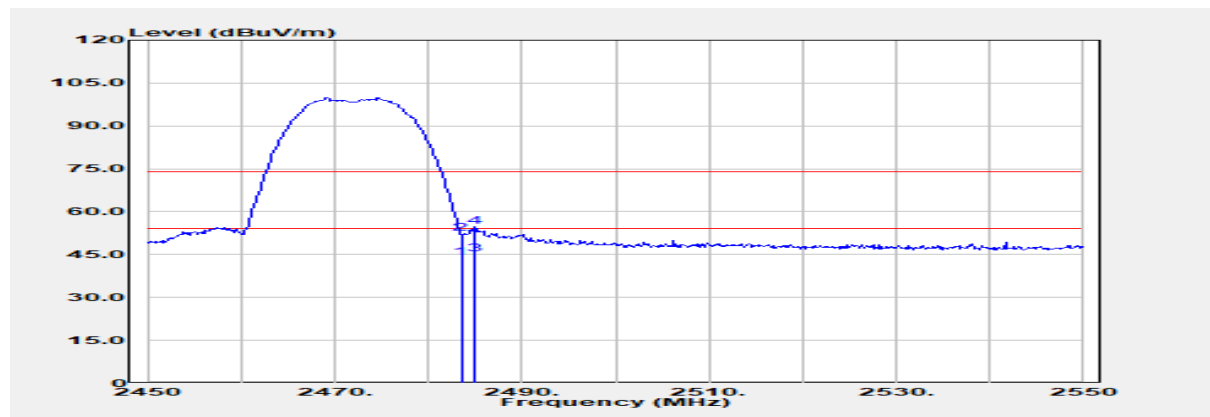
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	39.78	4.04	43.82	54.00	-10.18
2483.500	Peak	48.32	4.04	52.36	74.00	-21.64
2484.936	Average	40.97	4.02	44.99	54.00	-9.01
2484.936	Peak	50.59	4.02	54.61	74.00	-19.39

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Report Number :E2/2021/80035

Operation Mode :802.11b

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :NB Plane

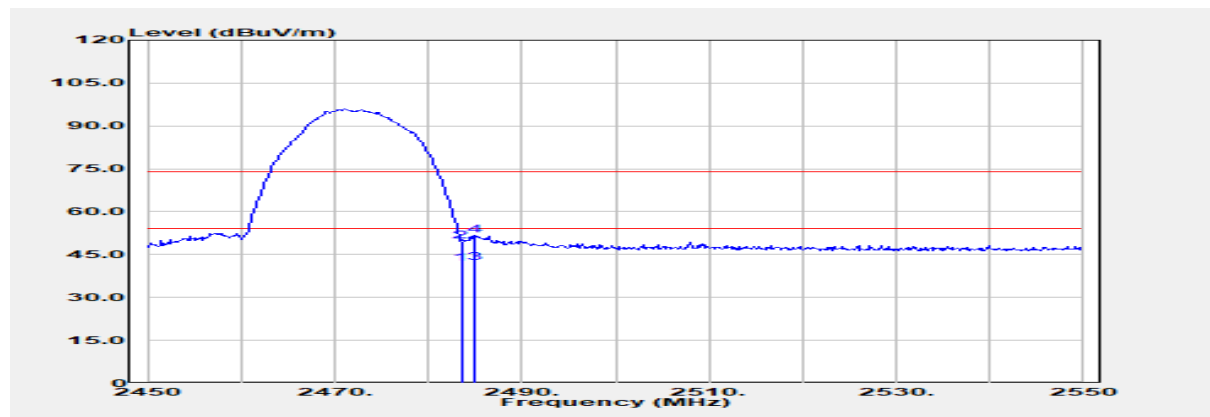
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.2/55

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	37.68	4.04	41.72	54.00	-12.28
2483.500	Peak	45.58	4.04	49.62	74.00	-24.38
2484.936	Average	38.08	4.02	42.10	54.00	-11.90
2484.936	Peak	47.84	4.02	51.86	74.00	-22.14

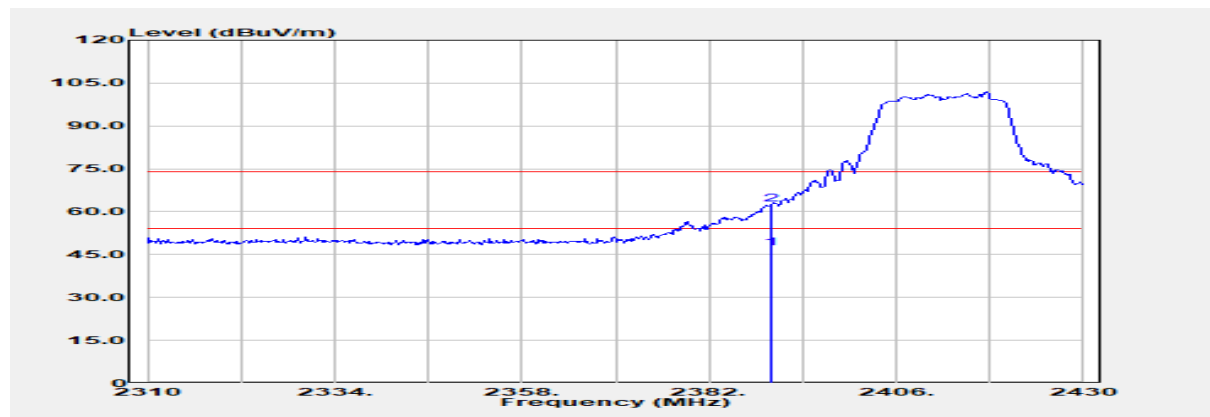
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Report Number :E2/2021/80035
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-18
 Temp./Humi. :23.1/60
 Antenna Pol. :Horizontal
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.000	Average	42.07	5.18	47.25	54.00	-6.75
2390.000	Peak	57.29	5.18	62.47	74.00	-11.53

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2412 MHz

Test Mode :BE CH 01

EUT Pol :NB Plane

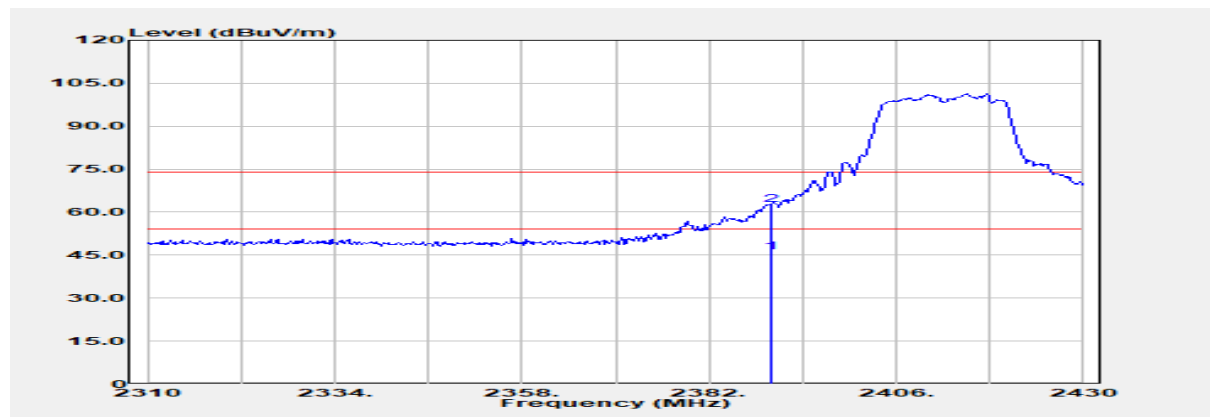
Test Site :SAC C

Test Date :2021-08-18

Temp./Humi. :23.1/60

Antenna Pol. :Vertical

Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.000	Average	40.80	5.18	45.98	54.00	-8.02
2390.000	Peak	57.33	5.18	62.51	74.00	-11.49

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2417 MHz

Test Mode :BE CH 02

EUT Pol :NB Plane

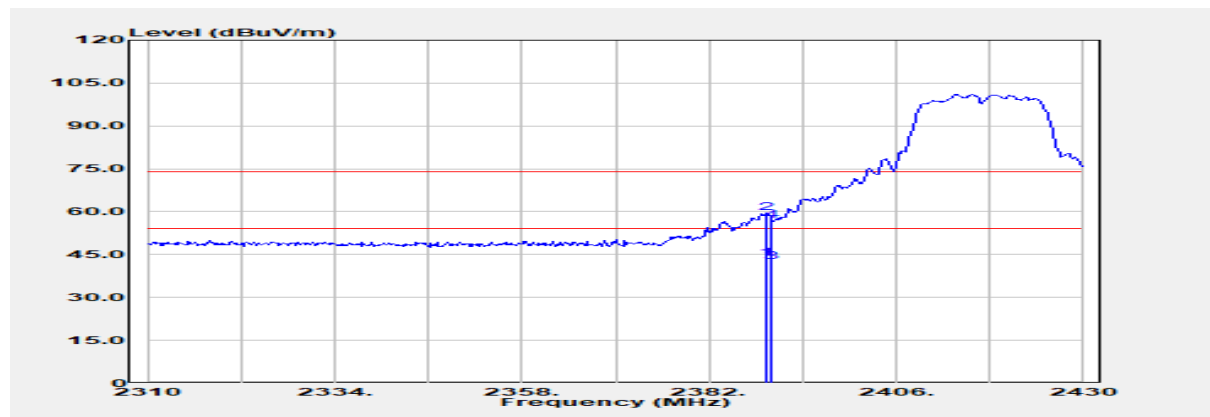
Test Site :SAC C

Test Date :2021-08-18

Temp./Humi. :23.1/60

Antenna Pol. :Horizontal

Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2389.231	Average	38.51	5.15	43.66	54.00	-10.34
2389.231	Peak	54.51	5.15	59.66	74.00	-14.34
2390.000	Average	37.25	5.18	42.43	54.00	-11.57
2390.000	Peak	51.62	5.18	56.80	74.00	-17.20

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2417 MHz

Test Mode :BE CH 02

EUT Pol :NB Plane

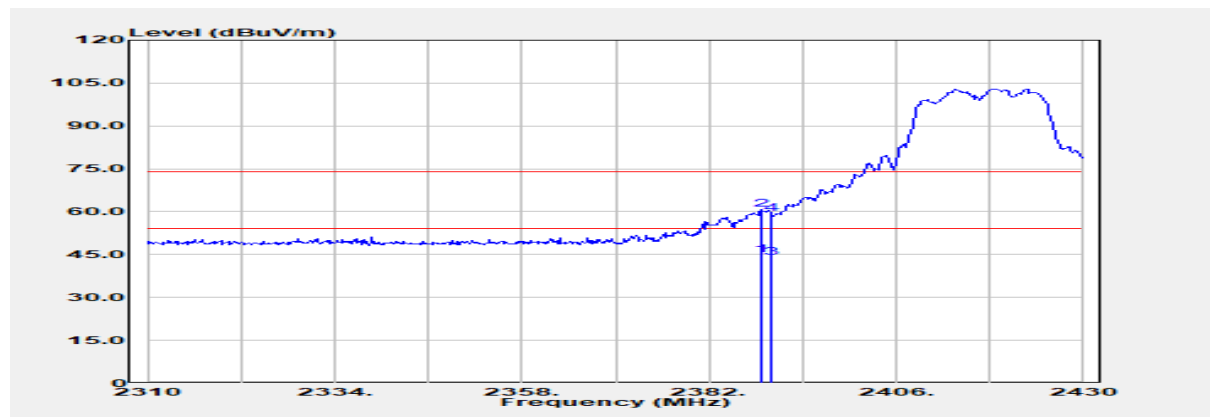
Test Site :SAC C

Test Date :2021-08-18

Temp./Humi. :23.1/60

Antenna Pol. :Vertical

Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2388.654	Average	39.63	5.12	44.75	54.00	-9.25
2388.654	Peak	55.63	5.12	60.75	74.00	-13.25
2390.000	Average	38.64	5.18	43.82	54.00	-10.18
2390.000	Peak	53.95	5.18	59.13	74.00	-14.87

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2457 MHz

Test Mode :BE CH 10

EUT Pol :NB Plane

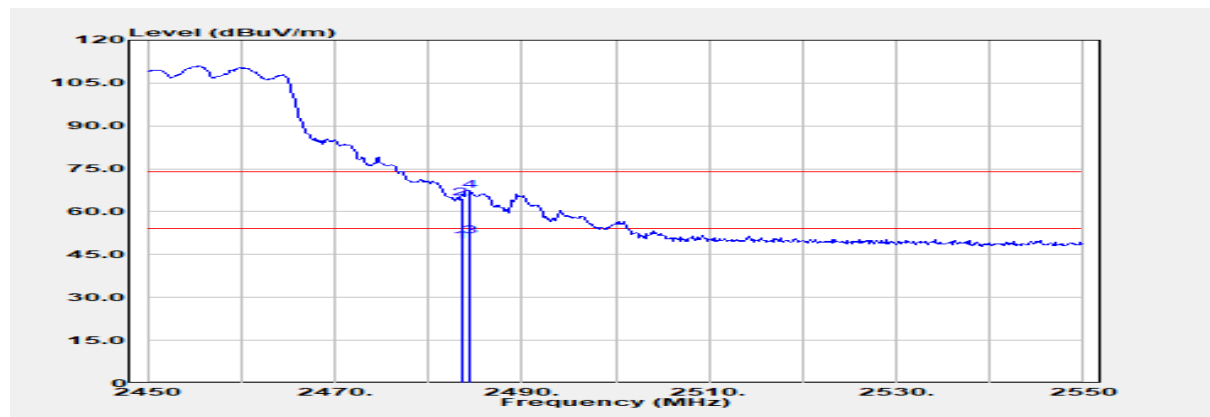
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.9/53

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	45.71	4.04	49.75	54.00	-4.25
2483.500	Peak	60.75	4.04	64.79	74.00	-9.21
2484.455	Average	47.49	4.03	51.52	54.00	-2.48
2484.455	Peak	63.43	4.03	67.46	74.00	-6.54

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2457 MHz

Test Mode :BE CH 10

EUT Pol :NB Plane

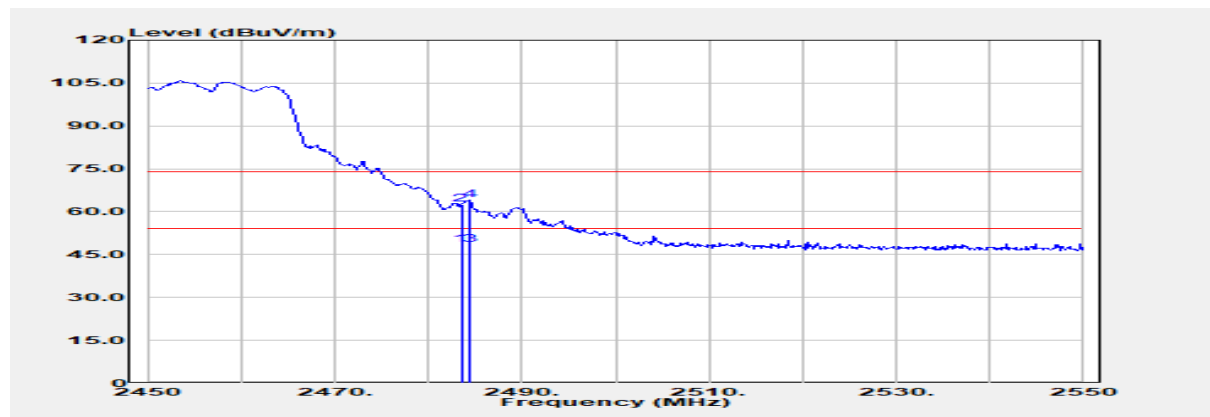
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.9/53

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.48	4.04	48.52	54.00	-5.48
2483.500	Peak	58.54	4.04	62.58	74.00	-11.42
2484.295	Average	44.51	4.03	48.54	54.00	-5.46
2484.295	Peak	59.98	4.03	64.01	74.00	-9.99

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

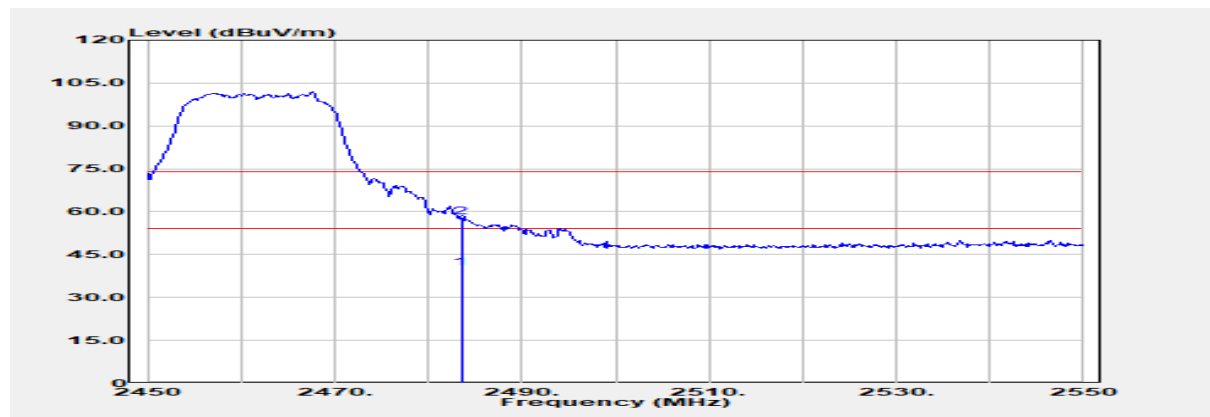
Test Site :SAC C

Test Date :2021-08-18

Temp./Humi. :23.1/60

Antenna Pol. :Horizontal

Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	36.31	4.04	40.35	54.00	-13.65
2483.500	Peak	54.02	4.04	58.06	74.00	-15.94

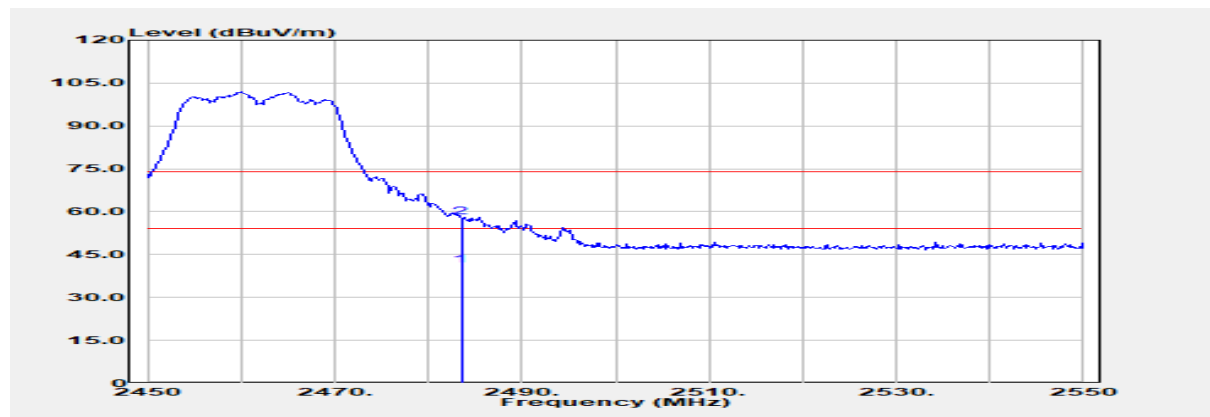
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Report Number :E2/2021/80035
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-18
 Temp./Humi. :23.1/60
 Antenna Pol. :Vertical
 Engineer :Ashton Chiu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	37.06	4.04	41.10	54.00	-12.90
2483.500	Peak	54.06	4.04	58.09	74.00	-15.91

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :NB Plane

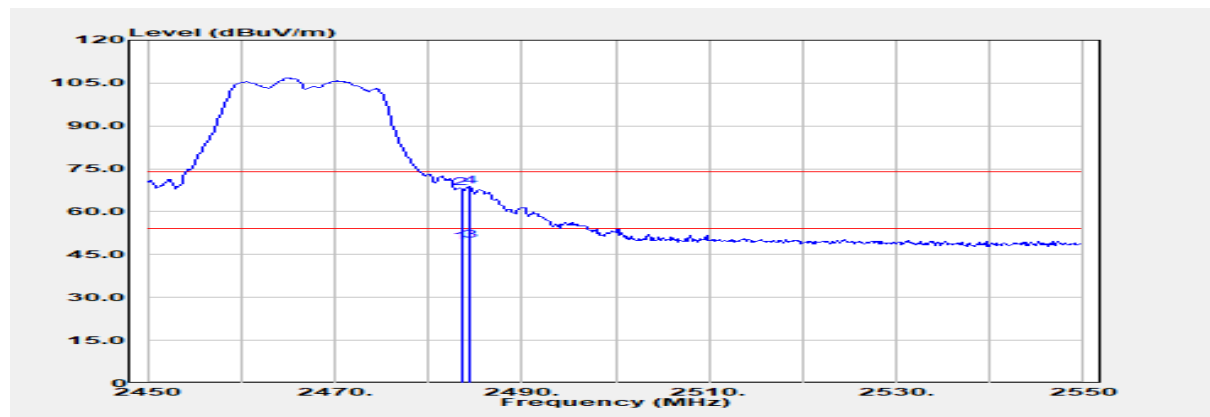
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.9/53

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	45.23	4.04	49.27	54.00	-4.73
2483.500	Peak	64.31	4.04	68.34	74.00	-5.66
2484.455	Average	46.00	4.03	50.03	54.00	-3.97
2484.455	Peak	64.83	4.03	68.86	74.00	-5.14

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :NB Plane

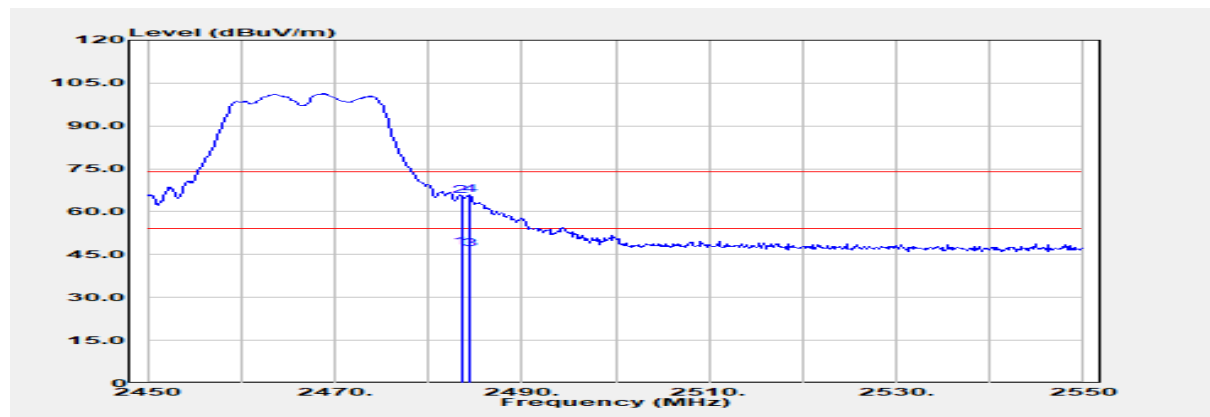
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.9/53

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	43.40	4.04	47.44	54.00	-6.56
2483.500	Peak	61.61	4.04	65.65	74.00	-8.35
2484.295	Average	42.91	4.03	46.94	54.00	-7.06
2484.295	Peak	61.93	4.03	65.96	74.00	-8.04

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Report Number :E2/2021/80035

Operation Mode :802.11g

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :NB Plane

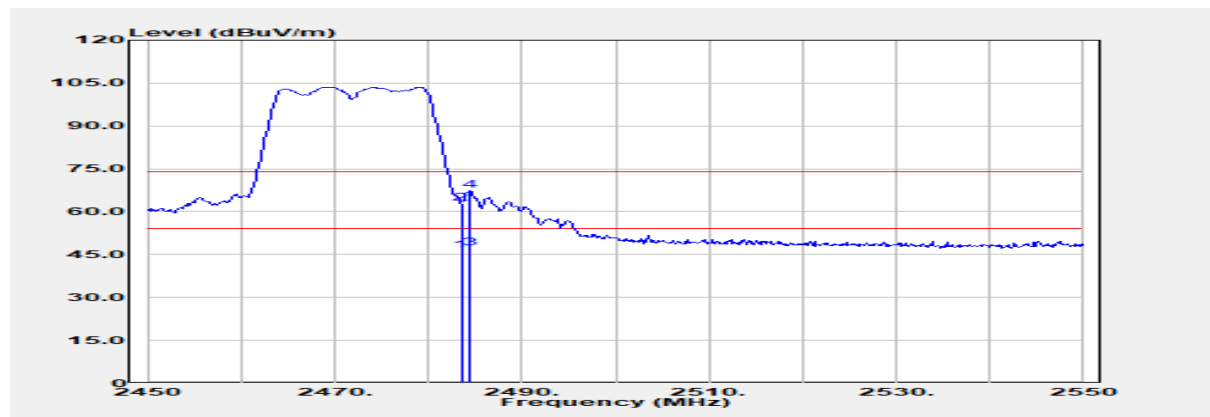
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :24.9/53

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	42.34	4.04	46.38	54.00	-7.62
2483.500	Peak	58.73	4.04	62.76	74.00	-11.24
2484.455	Average	43.21	4.03	47.24	54.00	-6.76
2484.455	Peak	63.25	4.03	67.28	74.00	-6.72

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Report Number :E2/2021/80035

Test Site :SAC C

Operation Mode :802.11g

Test Date :2021-08-09

Test Frequency :2472 MHz

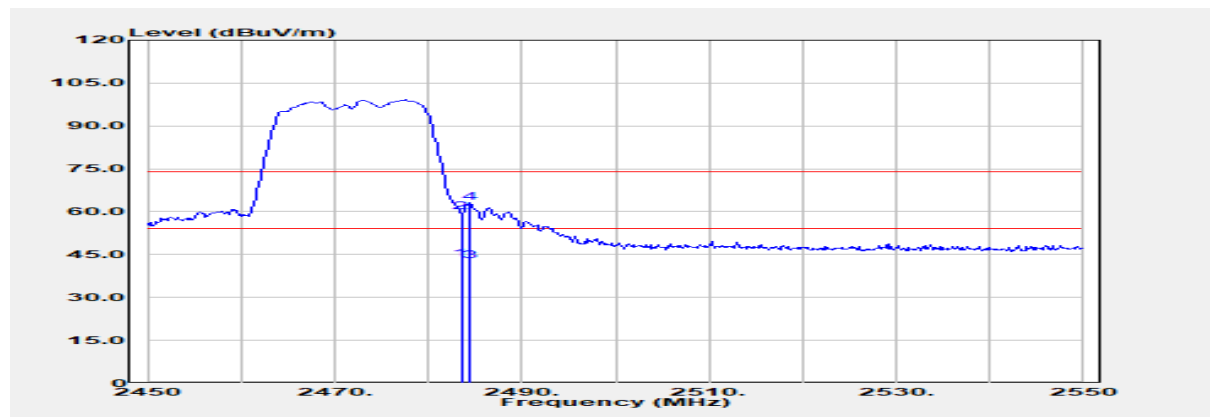
Temp./Humi. :24.9/53

Test Mode :BE CH 13

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Enzo Chang



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	39.41	4.04	43.45	54.00	-10.55
2483.500	Peak	55.74	4.04	59.78	74.00	-14.22
2484.455	Average	38.72	4.03	42.75	54.00	-11.25
2484.455	Peak	59.11	4.03	63.14	74.00	-10.86

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2412 MHz

Test Mode :BE CH 01

EUT Pol :NB Plane

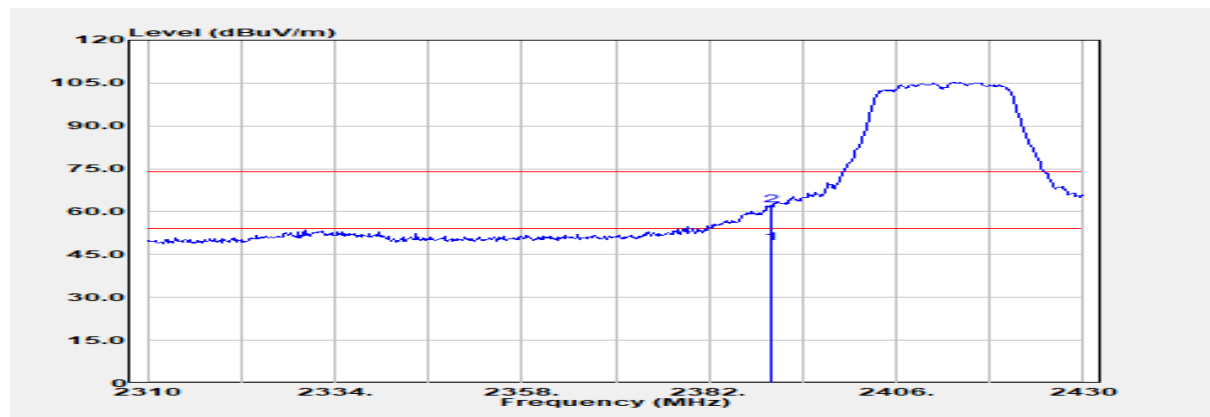
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Horizontal

Engineer :Enzo Chang



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	43.95	5.18	49.13	54.00	-4.87
2390.000	Peak	57.01	5.18	62.19	74.00	-11.81

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2412 MHz

Test Mode :BE CH 01

EUT Pol :NB Plane

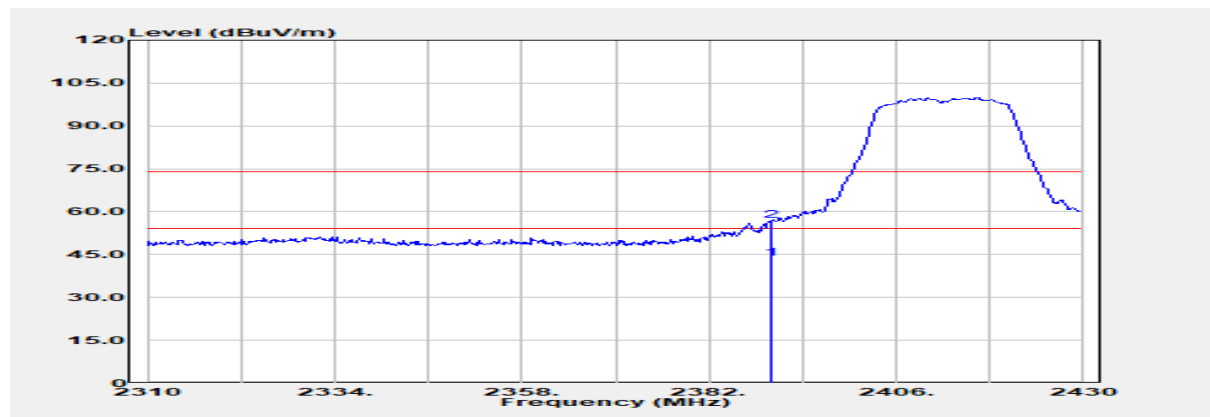
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Vertical

Engineer :Enzo Chang



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	38.43	5.18	43.61	54.00	-10.39
2390.000	Peak	51.59	5.18	56.77	74.00	-17.23

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2417 MHz

Test Mode :BE CH 02

EUT Pol :NB Plane

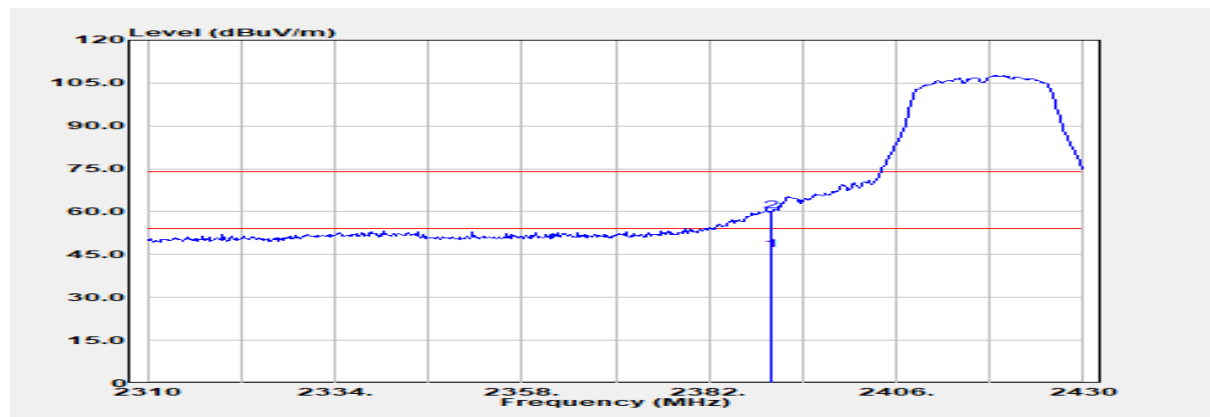
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	41.31	5.18	46.49	54.00	-7.51
2390.000	Peak	54.82	5.18	60.00	74.00	-14.00

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2417 MHz

Test Mode :BE CH 02

EUT Pol :NB Plane

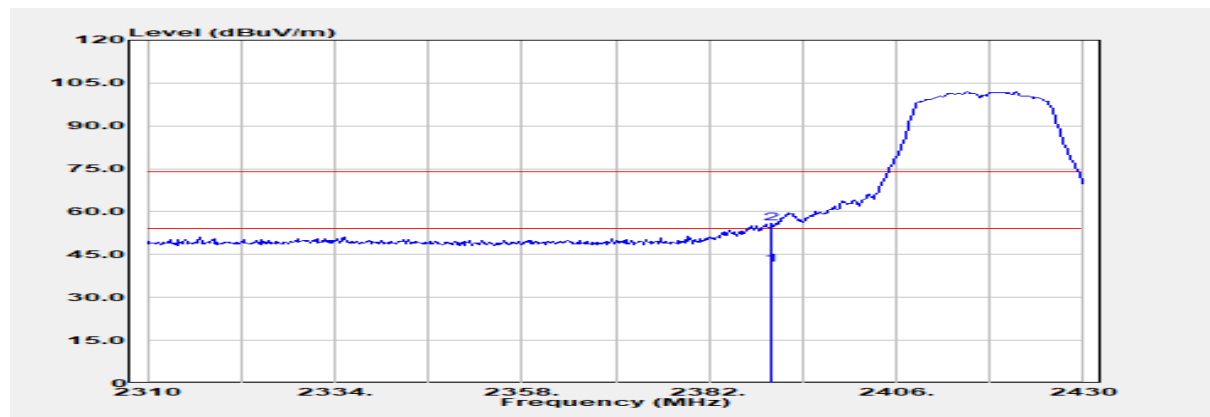
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.000	Average	36.46	5.18	41.64	54.00	-12.36
2390.000	Peak	50.65	5.18	55.83	74.00	-18.17

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2457 MHz

Test Mode :BE CH 10

EUT Pol :NB Plane

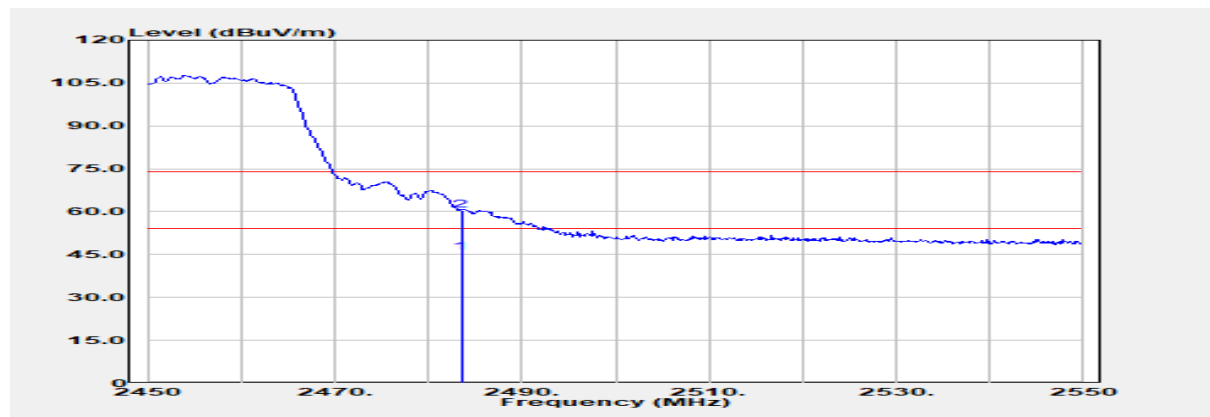
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	41.64	4.04	45.68	54.00	-8.32
2483.500	Peak	56.50	4.04	60.53	74.00	-13.47

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2457 MHz

Test Mode :BE CH 10

EUT Pol :NB Plane

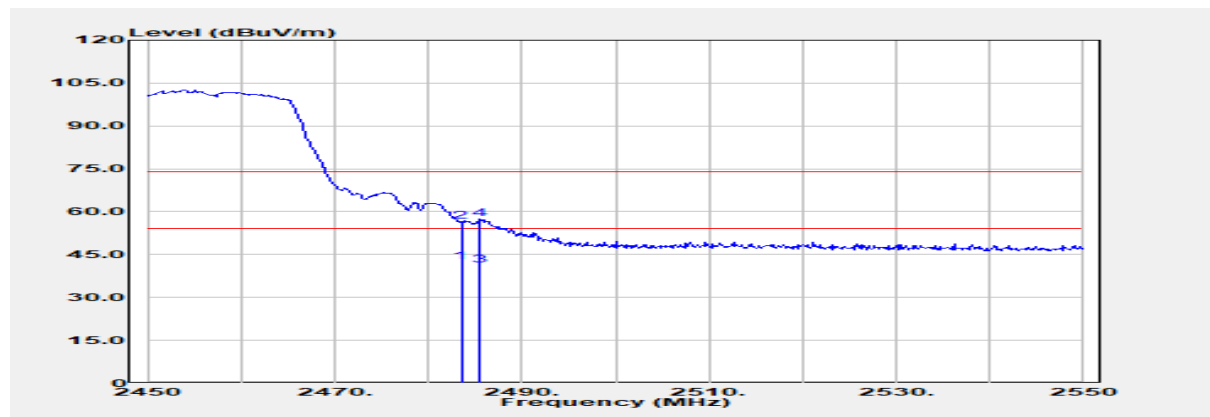
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	38.38	4.04	42.42	54.00	-11.58
2483.500	Peak	52.54	4.04	56.58	74.00	-17.42
2485.577	Average	37.17	4.02	41.19	54.00	-12.81
2485.577	Peak	53.30	4.02	57.31	74.00	-16.69

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

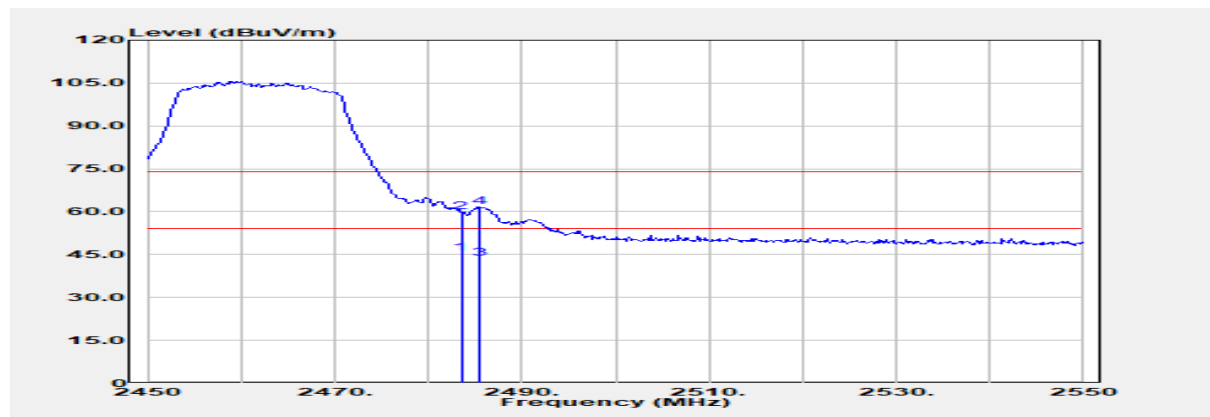
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	41.38	4.04	45.42	54.00	-8.58
2483.500	Peak	55.96	4.04	60.00	74.00	-14.00
2485.417	Average	39.53	4.02	43.55	54.00	-10.45
2485.417	Peak	57.72	4.02	61.74	74.00	-12.26

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

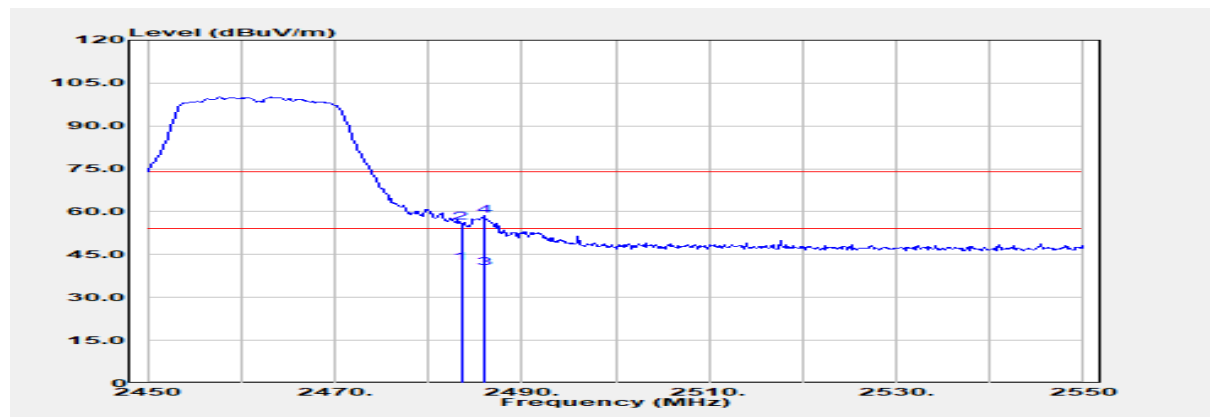
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	38.21	4.04	42.25	54.00	-11.75
2483.500	Peak	52.17	4.04	56.21	74.00	-17.79
2485.897	Average	36.35	4.01	40.36	54.00	-13.64
2485.897	Peak	54.77	4.01	58.78	74.00	-15.22

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :NB Plane

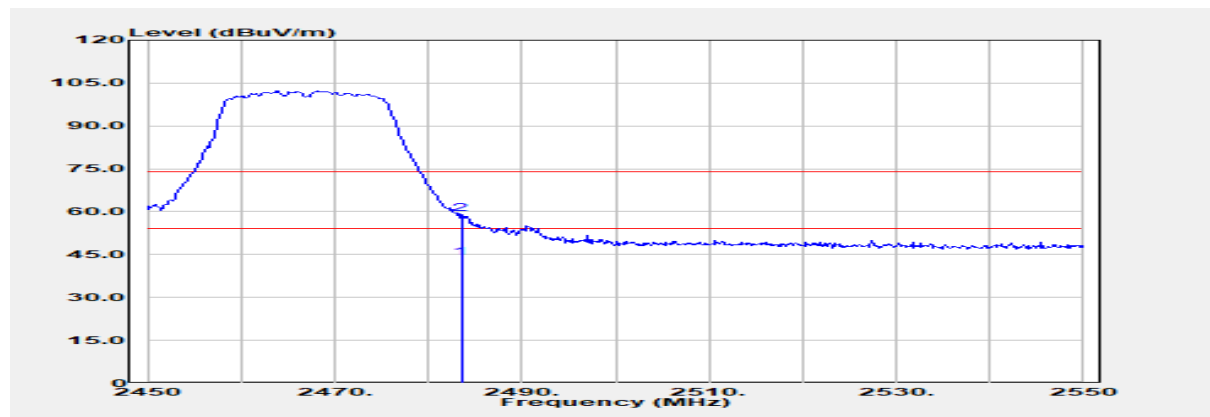
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	39.98	4.04	44.02	54.00	-9.98
2483.500	Peak	55.11	4.04	59.15	74.00	-14.85

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2467 MHz

Test Mode :BE CH 12

EUT Pol :NB Plane

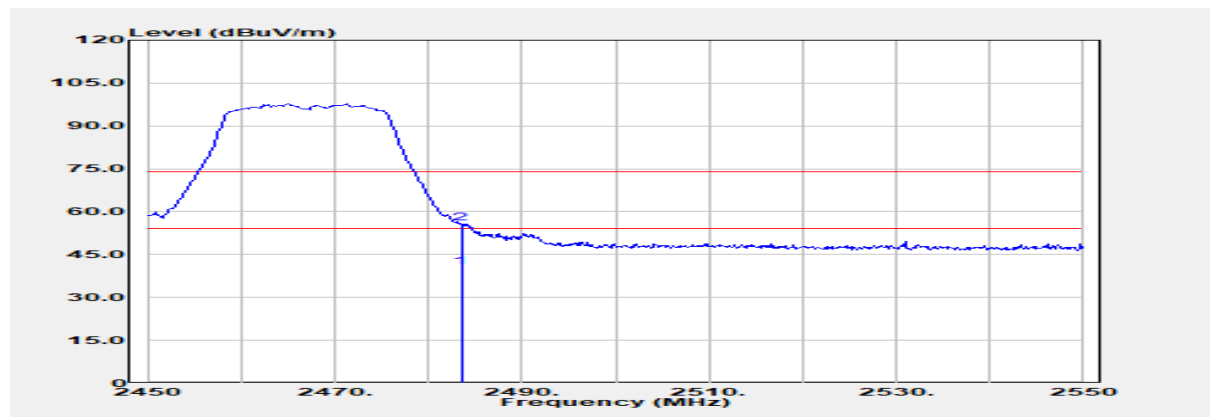
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	36.67	4.04	40.71	54.00	-13.29
2483.500	Peak	51.85	4.04	55.89	74.00	-18.11

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :NB Plane

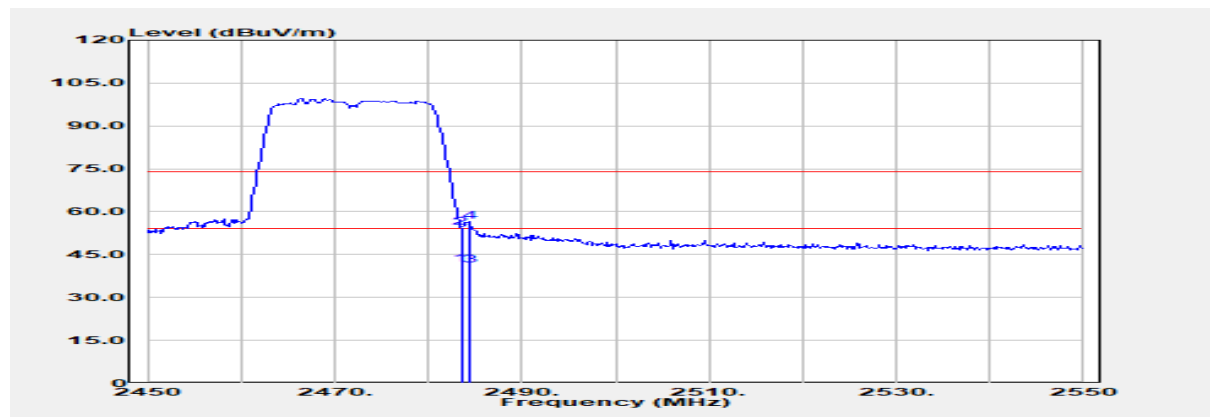
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Horizontal

Engineer :Enzo Chang



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	37.56	4.04	41.60	54.00	-12.40
2483.500	Peak	50.28	4.04	54.32	74.00	-19.68
2484.295	Average	37.24	4.03	41.27	54.00	-12.73
2484.295	Peak	52.42	4.03	56.45	74.00	-17.55

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Report Number :E2/2021/80035

Operation Mode :802.11ac20

Test Frequency :2472 MHz

Test Mode :BE CH 13

EUT Pol :NB Plane

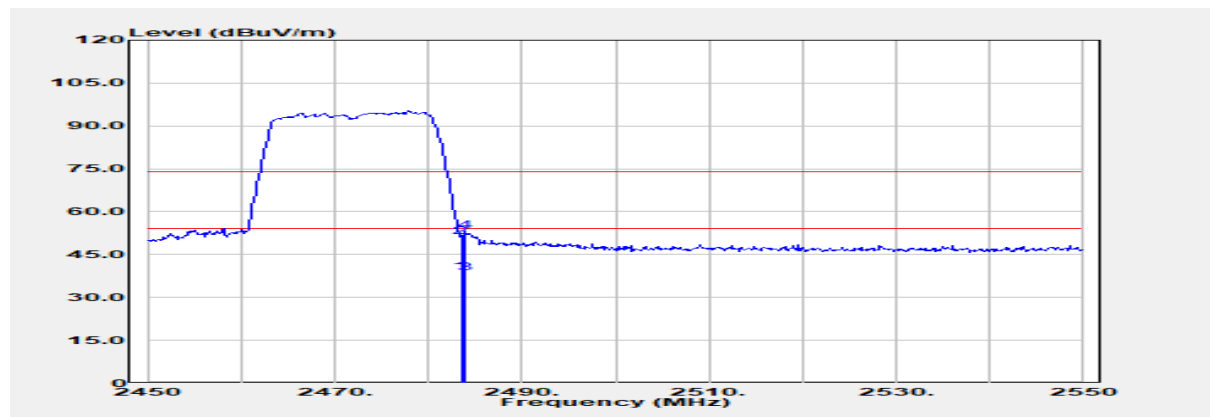
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.8/58

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	34.62	4.04	38.66	54.00	-15.34
2483.500	Peak	47.10	4.04	51.13	74.00	-22.87
2483.974	Average	34.45	4.03	38.48	54.00	-15.52
2483.974	Peak	49.27	4.03	53.31	74.00	-20.69

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2422 MHz

Test Mode :BE CH 03

EUT Pol :NB Plane

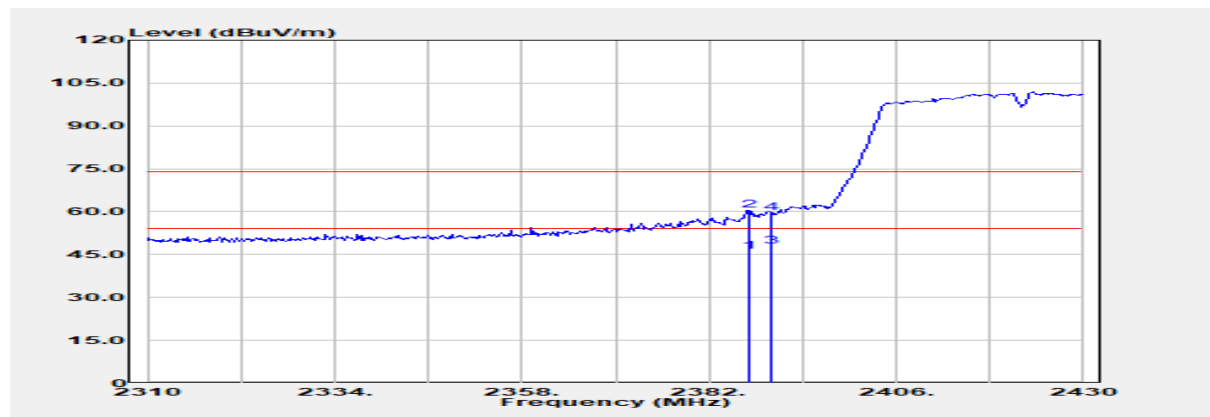
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.115	Average	41.11	5.05	46.16	54.00	-7.84
2387.115	Peak	55.45	5.05	60.50	74.00	-13.50
2390.000	Average	42.76	5.18	47.94	54.00	-6.06
2390.000	Peak	54.38	5.18	59.56	74.00	-14.44

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2422 MHz

Test Mode :BE CH 03

EUT Pol :NB Plane

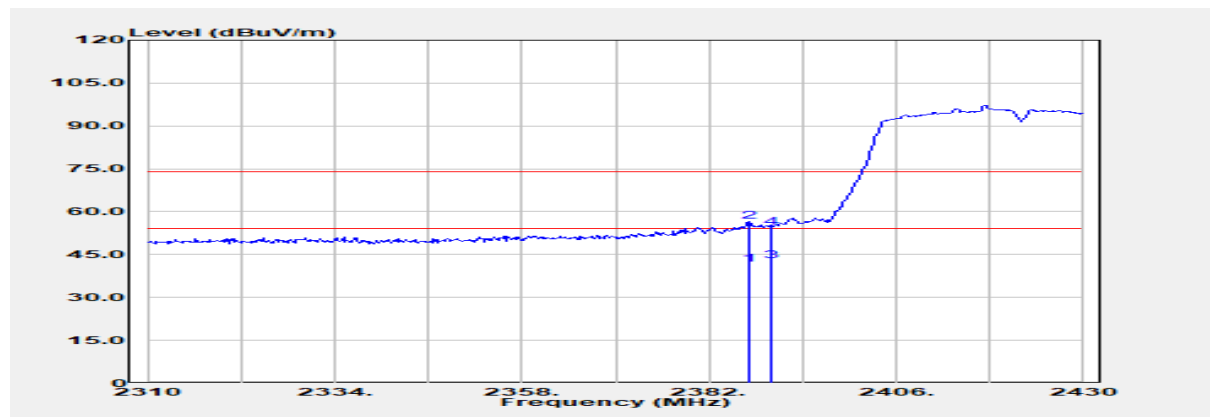
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.115	Average	36.55	5.05	41.60	54.00	-12.40
2387.115	Peak	51.37	5.05	56.43	74.00	-17.57
2390.000	Average	37.58	5.18	42.76	54.00	-11.24
2390.000	Peak	49.33	5.18	54.51	74.00	-19.49

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2427 MHz

Test Mode :BE CH 04

EUT Pol :NB Plane

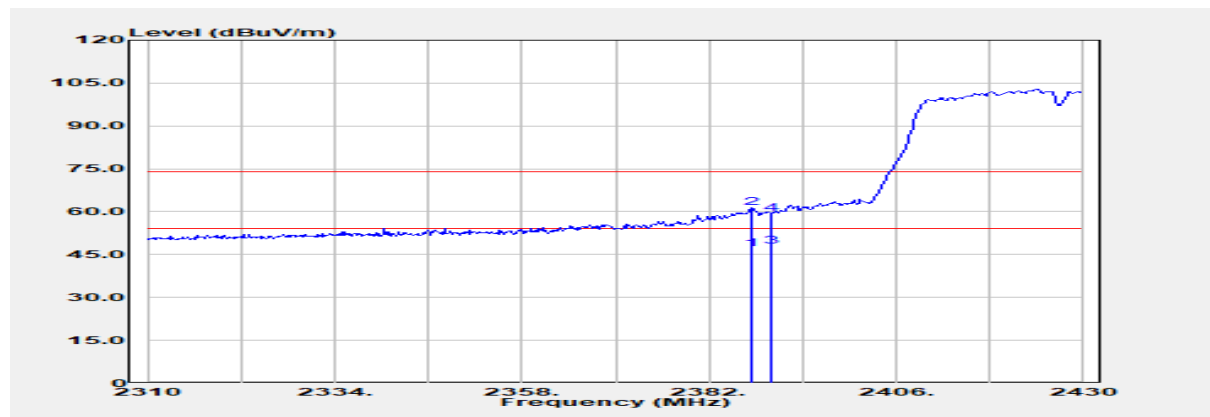
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.308	Average	41.98	5.06	47.04	54.00	-6.96
2387.308	Peak	56.41	5.06	61.47	74.00	-12.53
2390.000	Average	42.71	5.18	47.89	54.00	-6.11
2390.000	Peak	54.13	5.18	59.31	74.00	-14.69

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2427 MHz

Test Mode :BE CH 04

EUT Pol :NB Plane

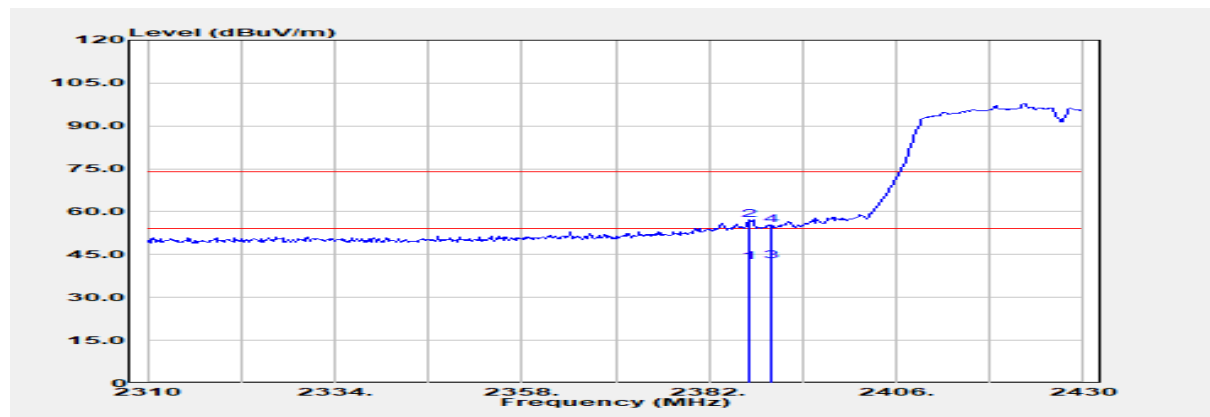
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.115	Average	37.25	5.05	42.30	54.00	-11.70
2387.115	Peak	52.10	5.05	57.16	74.00	-16.84
2390.000	Average	37.66	5.18	42.84	54.00	-11.16
2390.000	Peak	50.09	5.18	55.27	74.00	-18.73

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2447 MHz

Test Mode :BE CH 08

EUT Pol :NB Plane

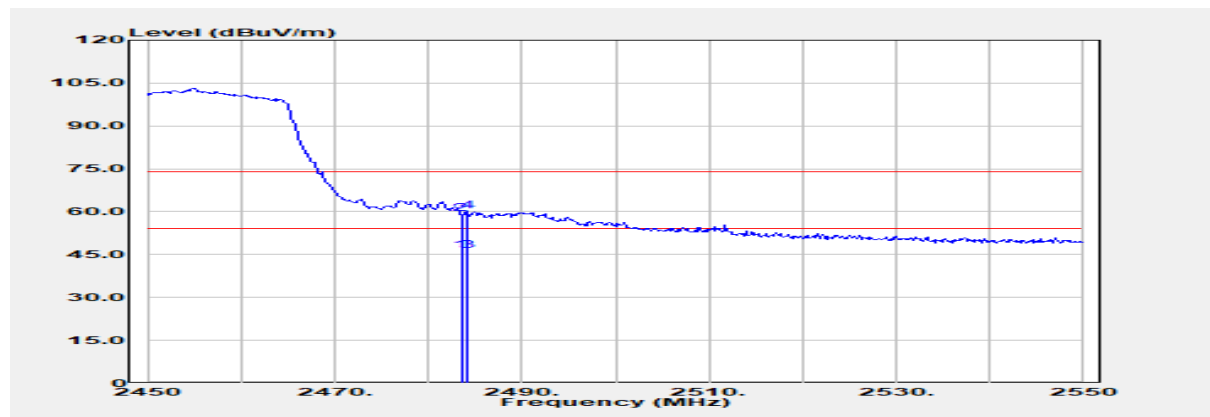
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	42.24	4.04	46.28	54.00	-7.72
2483.500	Peak	55.08	4.04	59.12	74.00	-14.88
2484.135	Average	42.14	4.03	46.17	54.00	-7.83
2484.135	Peak	56.04	4.03	60.07	74.00	-13.93

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2447 MHz

Test Mode :BE CH 08

EUT Pol :NB Plane

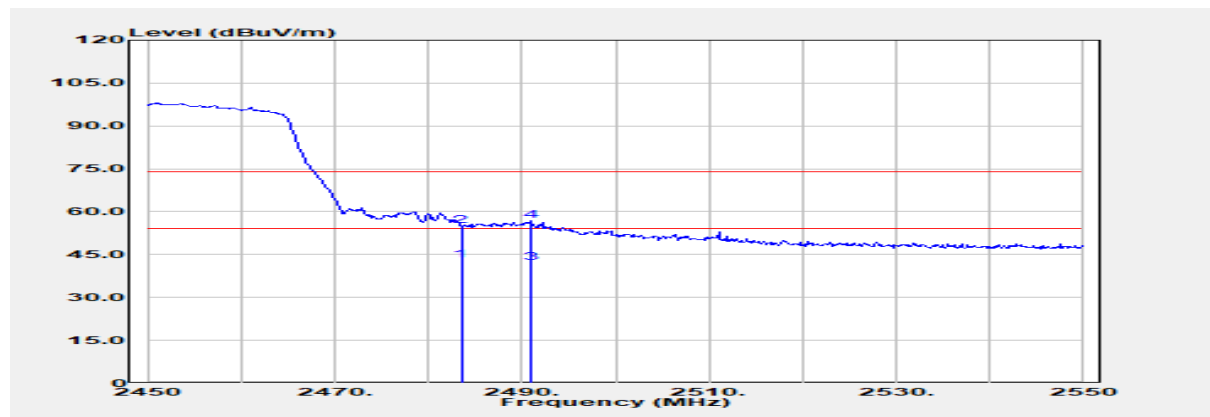
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	38.98	4.04	43.02	54.00	-10.98
2483.500	Peak	51.06	4.04	55.09	74.00	-18.91
2490.865	Average	38.13	3.93	42.06	54.00	-11.94
2490.865	Peak	52.78	3.93	56.71	74.00	-17.29

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2452 MHz

Test Mode :BE CH 09

EUT Pol :NB Plane

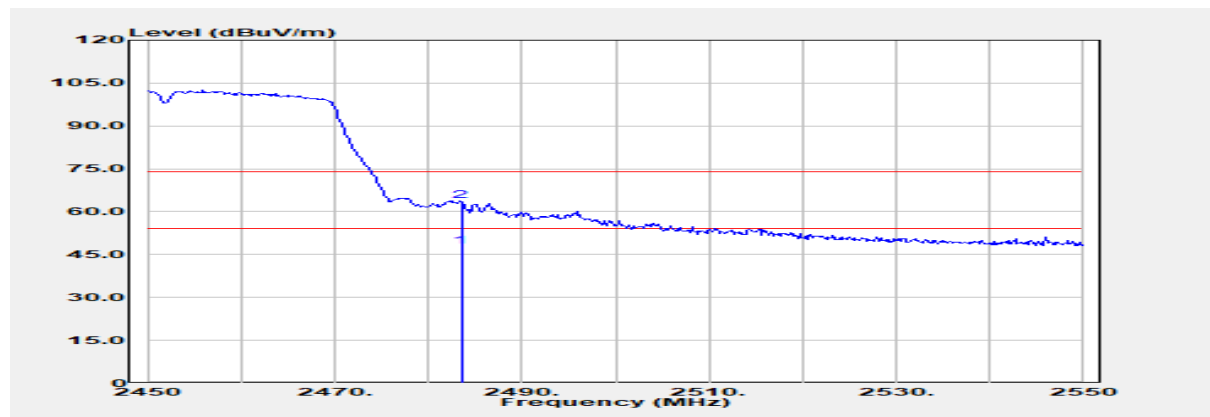
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.72	4.04	47.76	54.00	-6.24
2483.500	Peak	59.61	4.04	63.64	74.00	-10.36

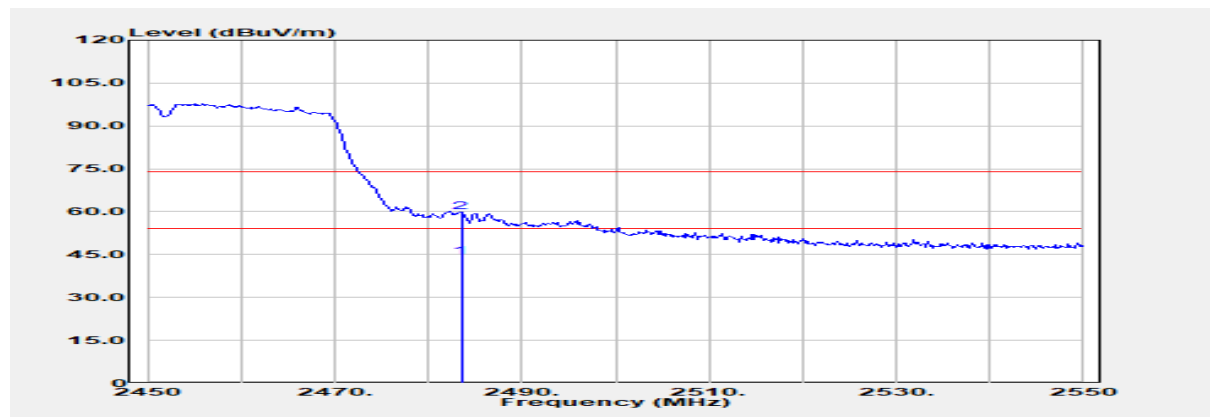
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Report Number :E2/2021/80035
 Operation Mode :802.11ac40
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.6/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	40.07	4.04	44.11	54.00	-9.89
2483.500	Peak	55.67	4.04	59.70	74.00	-14.30

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2457 MHz

Test Mode :BE CH 10

EUT Pol :NB Plane

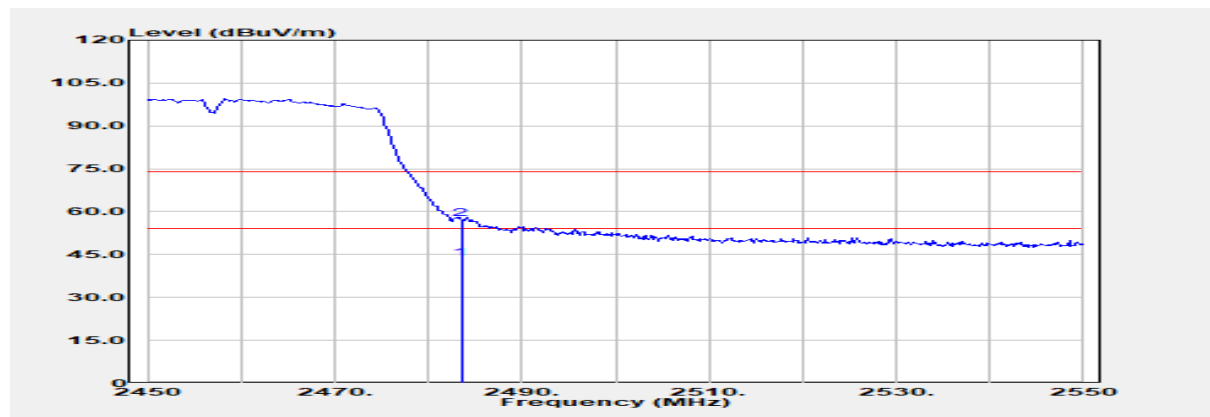
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	39.56	4.04	43.60	54.00	-10.40
2483.500	Peak	53.37	4.04	57.41	74.00	-16.59

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2457 MHz

Test Mode :BE CH 10

EUT Pol :NB Plane

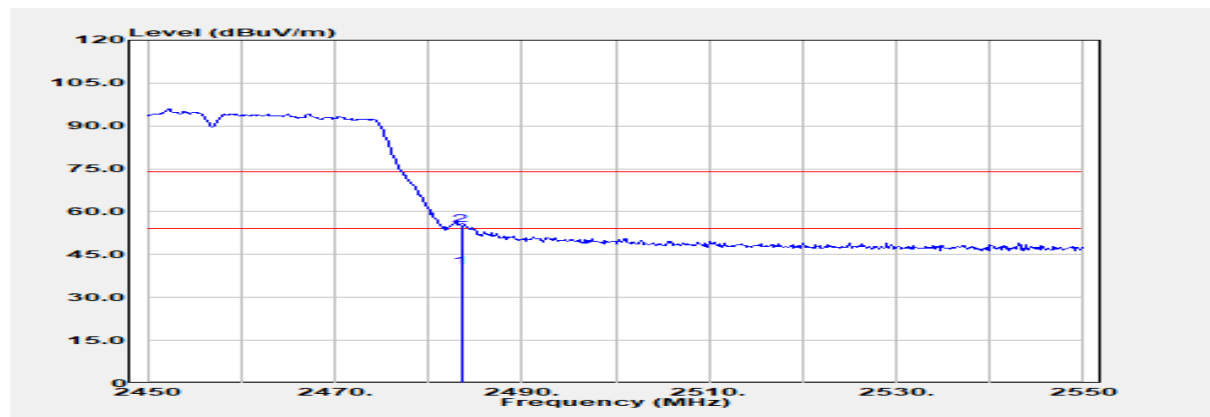
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	36.55	4.04	40.59	54.00	-13.41
2483.500	Peak	51.18	4.04	55.22	74.00	-18.78

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

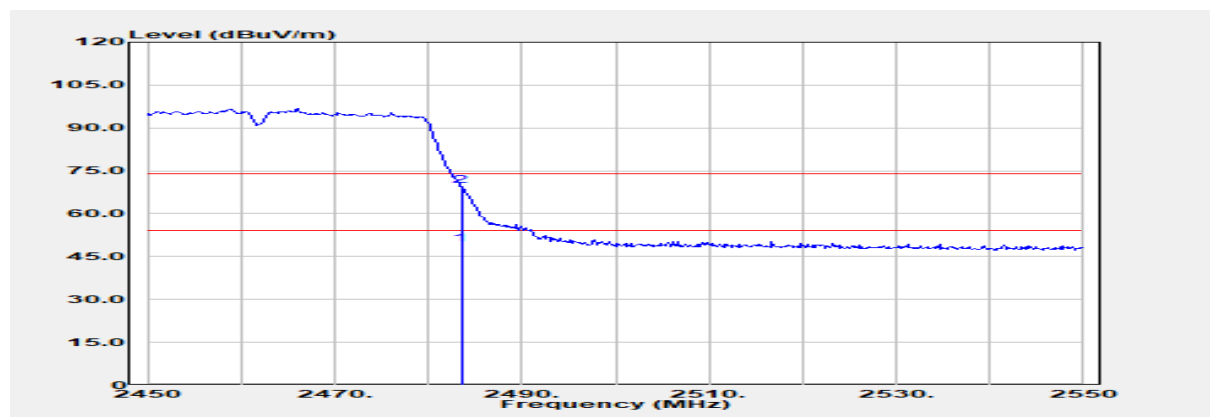
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Horizontal

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	45.37	4.04	49.41	54.00	-4.59
2483.500	Peak	65.59	4.04	69.63	74.00	-4.37

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Report Number :E2/2021/80035

Operation Mode :802.11ac40

Test Frequency :2462 MHz

Test Mode :BE CH 11

EUT Pol :NB Plane

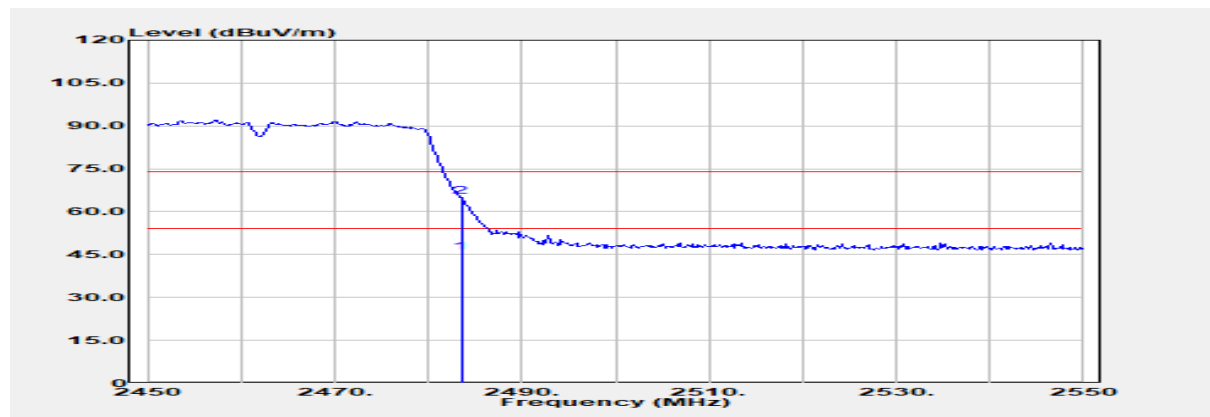
Test Site :SAC C

Test Date :2021-08-09

Temp./Humi. :23.6/56

Antenna Pol. :Vertical

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Average	41.65	4.04	45.69	54.00	-8.31
2483.500	Peak	61.14	4.04	65.18	74.00	-8.82

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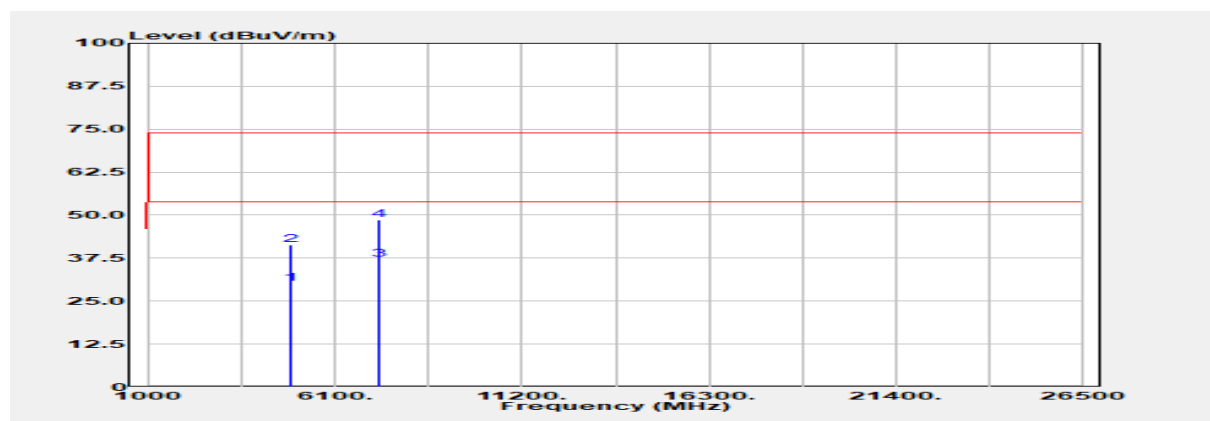
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7.7.2 Above 1GHz Emission:

Report Number :E2/2021/80035
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH 06
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-09
 Temp./Humi. :23.5/57
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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	19.75	10.38	30.13	54.00	-23.87
4874.000	Peak	30.86	10.38	41.24	74.00	-32.76
7311.000	Average	19.02	17.97	36.99	54.00	-17.01
7311.000	Peak	30.56	17.97	48.53	74.00	-25.47

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Report Number :E2/2021/80035

Test Site :SAC C

Operation Mode :802.11b

Test Date :2021-08-09

Test Frequency :2437 MHz

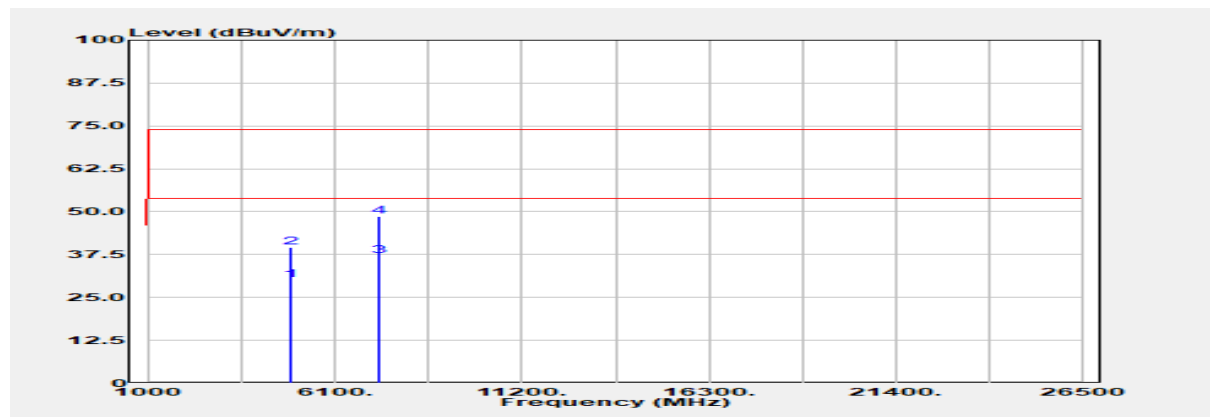
Temp./Humi. :23.5/57

Test Mode :TX CH 06

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Enzo Chang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	19.77	10.38	30.15	54.00	-23.85
4874.000	Peak	29.10	10.38	39.48	74.00	-34.52
7311.000	Average	19.02	17.97	36.99	54.00	-17.01
7311.000	Peak	30.71	17.97	48.68	74.00	-25.32

~ End of Report ~

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