

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CLASS II PC REPORT



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

Product Name: 7c Modular Platform

Brand Name: acer

Model No.: QSIP7180

Model Difference: N/A

Report Number: ER/2021/70038

FCC ID HLZQSIP7180

Issue Date: Sep. 07, 2021

Date of Test: Jul. 22, 2021 ~ Sep. 01, 2021

Date of EUT Received: Jul. 09, 2021

Approved By

CHUN-CHIEH, CHEN

Chun Chieh Chen

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.

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
ER/2021/70038	Rev.00	Original.	Sep. 07, 2021	Yi-Shan Tsai

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	7c Modular Platform
Brand Name:	<i>acer</i>
Model No.:	QSIP7180
Model No. of Host:	N20Q7
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N8DAISY005117007F37600 (Conducted) N8A4DWW0031241CABC7600 (Radiated)
Power Supply:	11.4Vdc from Rechargeable Li-polymer Battery Pack 19Vdc from AC/DC Adapter

1.2 RF Specification

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2472	13	23.26	DSSS
g			25.22	OFDM
n_HT20			25.39	
n_HT40	2422-2462	9	24.69	
Modulation type		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transission 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 – 300.0Mbps		

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1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	WNC	Main	DQ6A15GC700	2412-2472	2.08	V
		Aux			1.56	

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
- 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		
		Conducted 7		
	Conducted 8			
	Conducted 9			
	Conducted 10			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC E		
		Conducted A		
		Conducted B		
		Conducted C		
Conducted D				
Conducted E				
Conducted F				
Conducted G				
Conducted H				
Conducted I				
Conducted J				
Conducted TS8997				

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*9m*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



Fig. 2-2 Conducted (Antenna Port) Configuration



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

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(d) §15.209	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

9 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

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	6	DSSS	1	2TX

Note: The field strength of radiation emission was measured as NB Plane 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	1,2,6,10,11,12,13	DSSS	1	2TX
802.11g	1 to 13	1,2,6,10,11,12,13	OFDM	6	2TX
802.11n (HT20)	1 to 13	1,2,6,10,11,12,13	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 11	3,4,6,8,9,10,11	OFDM	MCS8	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Peak Output Power	+/- 1 dB
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.

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.

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

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

$g_{j,k} = / 20 \log G_k$ 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 greater than 6 dBi. Therefore, reduction of power is not required.

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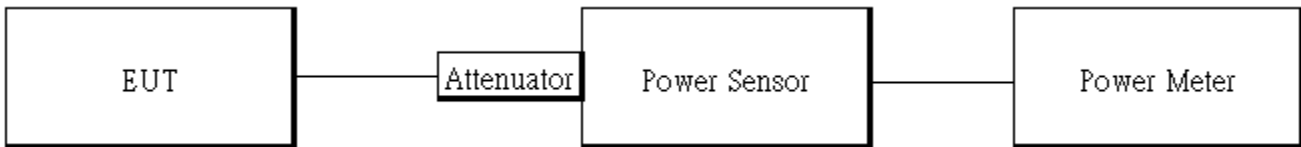
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6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/20/2020	10/19/2021
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

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.**

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6.5 Measurement Result

802.11b_2TX							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	1	20.12	20.31	23.23	30.00	PASS
2	2417	1	20.08	20.21	23.16	30.00	PASS
6	2437	1	20.52	19.96	23.26	30.00	PASS
10	2457	1	20.33	20.00	23.18	30.00	PASS
11	2462	1	19.00	18.68	21.85	30.00	PASS
12	2467	1	18.87	18.70	21.80	30.00	PASS
13	2472	1	17.19	17.49	20.35	30.00	PASS
802.11b_2TX							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	1	18.00	18.08	21.08	30.00	PASS
2	2417	1	17.85	18.17	21.06	30.00	PASS
6	2437	1	18.34	17.92	21.18	30.00	PASS
10	2457	1	18.24	18.01	21.17	30.00	PASS
11	2462	1	16.65	16.50	19.62	30.00	PASS
12	2467	1	16.35	16.51	19.47	30.00	PASS
13	2472	1	10.26	10.82	13.59	30.00	PASS
802.11g_2TX							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	6	21.40	21.12	24.27	30.00	PASS
2	2417	6	22.05	21.98	25.03	30.00	PASS
6	2437	6	22.43	21.98	25.22	30.00	PASS
10	2457	6	22.12	21.34	24.76	30.00	PASS
11	2462	6	20.54	19.73	23.16	30.00	PASS
12	2467	6	19.29	18.60	21.97	30.00	PASS
13	2472	6	8.30	7.95	11.14	30.00	PASS
802.11g_2TX							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	6	15.91	16.36	19.23	30.00	PASS
2	2417	6	17.53	17.81	20.76	30.00	PASS
6	2437	6	18.40	17.99	21.29	30.00	PASS
10	2457	6	17.40	17.13	20.35	30.00	PASS
11	2462	6	15.31	15.07	18.28	30.00	PASS
12	2467	6	13.28	13.35	16.40	30.00	PASS
13	2472	6	2.31	3.02	5.76	30.00	PASS

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802.11n_HT20M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	MCS8	20.50	20.48	23.50	30.00	PASS
2	2417	MCS8	22.31	22.44	25.39	30.00	PASS
6	2437	MCS8	22.18	21.68	24.95	30.00	PASS
10	2457	MCS8	22.21	21.50	24.88	30.00	PASS
11	2462	MCS8	20.70	19.89	23.32	30.00	PASS
12	2467	MCS8	17.65	17.26	20.47	30.00	PASS
13	2472	MCS8	9.77	9.60	12.70	30.00	PASS

802.11n_HT20M MIMO							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
1	2412	MCS8	15.02	15.24	18.22	30.00	PASS
2	2417	MCS8	17.82	18.02	21.01	30.00	PASS
6	2437	MCS8	17.87	17.48	20.77	30.00	PASS
10	2457	MCS8	17.30	16.98	20.23	30.00	PASS
11	2462	MCS8	15.26	14.99	18.22	30.00	PASS
12	2467	MCS8	12.27	11.97	15.21	30.00	PASS
13	2472	MCS8	3.45	4.14	6.90	30.00	PASS

802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
3	2422	MCS8	20.75	19.43	23.15	30.00	PASS
4	2427	MCS8	21.93	20.85	24.43	30.00	PASS
6	2437	MCS8	21.98	21.36	24.69	30.00	PASS
8	2447	MCS8	20.35	19.74	23.07	30.00	PASS
9	2452	MCS8	19.76	18.84	22.33	30.00	PASS
10	2457	MCS8	14.25	13.12	16.73	30.00	PASS
11	2462	MCS8	5.73	5.03	8.40	30.00	PASS

802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1			
3	2422	MCS8	14.18	13.67	17.17	30.00	PASS
4	2427	MCS8	15.07	14.94	18.24	30.00	PASS
6	2437	MCS8	16.38	16.55	19.70	30.00	PASS
8	2447	MCS8	14.02	14.25	17.37	30.00	PASS
9	2452	MCS8	13.37	13.23	16.53	30.00	PASS
10	2457	MCS8	7.72	7.45	10.82	30.00	PASS
11	2462	MCS8	-0.13	-0.16	3.09	30.00	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 limit as below.

And according to §15.33(a) (1) 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: TX

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZ-BECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZ-BECK	BBHA9120D	1441	10/16/2020	10/15/2021
Bi-log Antenna	SCHWARZ-BECK	VULB9168	300	11/18/2020	11/17/2021
Loop Antenna	ETS.LIND-GREN	6502	148045	10/19/2020	10/18/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI	101338	03/22/2021	03/21/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 6.11812c	N.C.R	N.C.R

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

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7.3 Measurement Equipment Used: Bandedge

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
Attenuator	Marvelous	WATT-218FS-10	RF20	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.

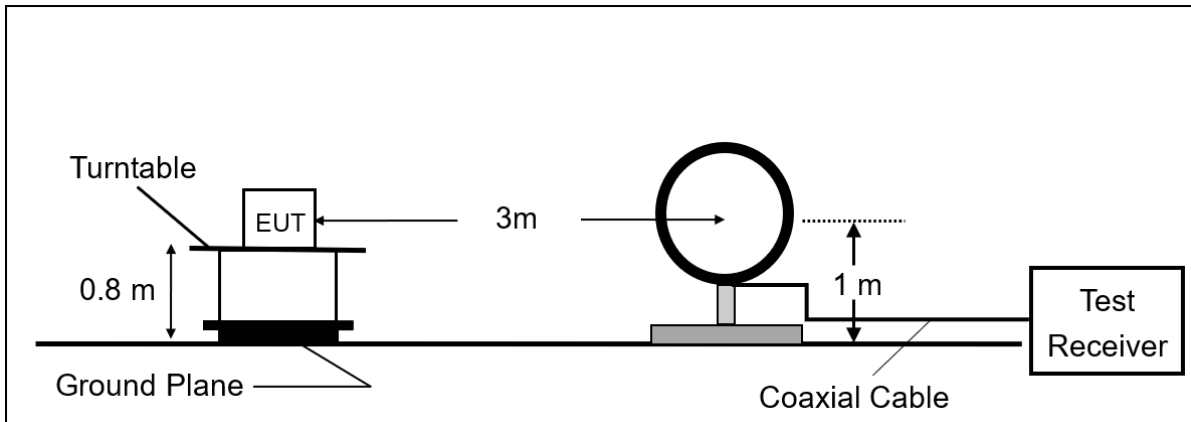
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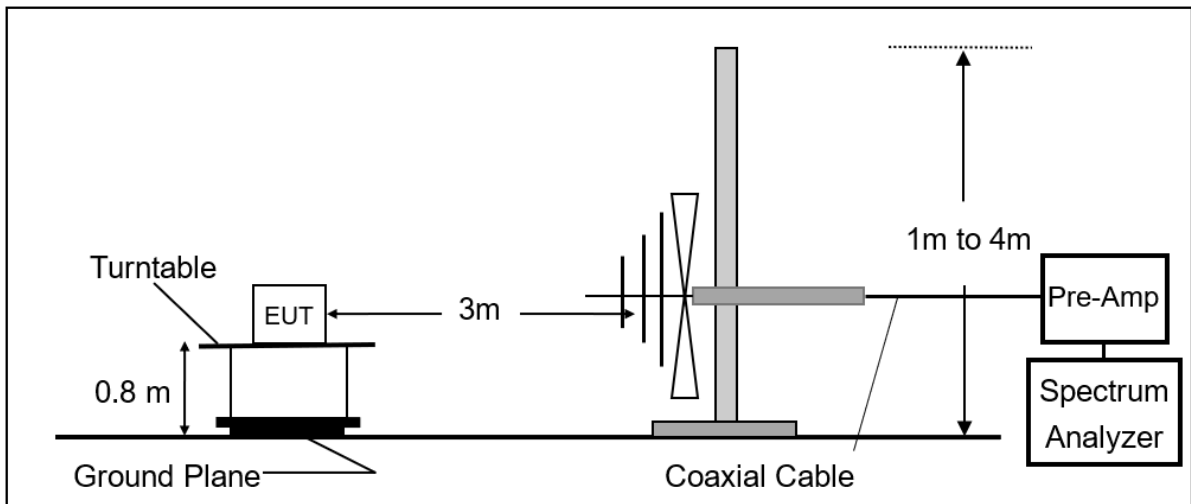
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7.4 Test SET-UP

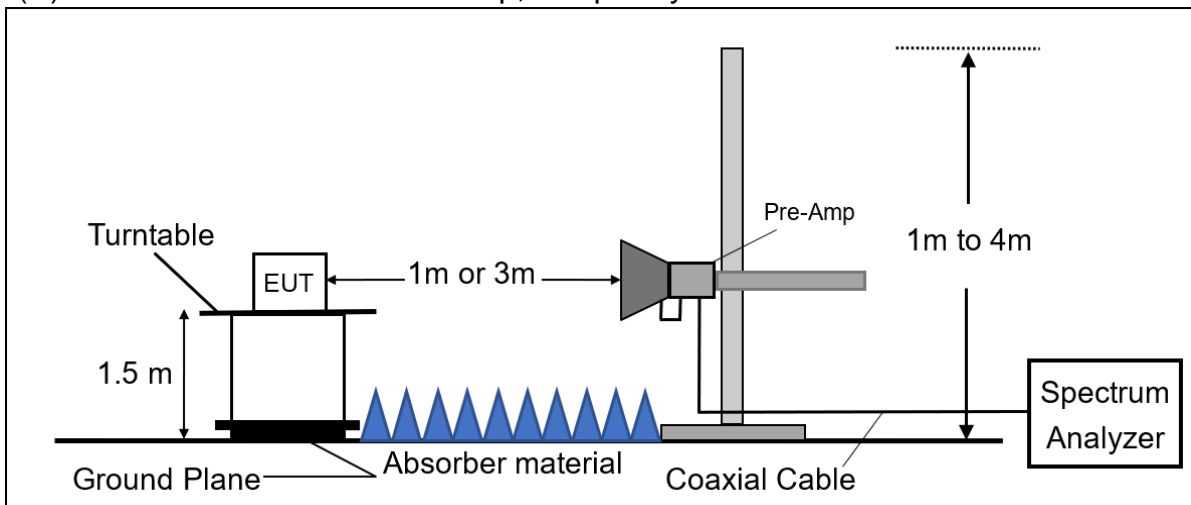
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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7.5 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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7.6 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)

7.7 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) was not reported.

7.8 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

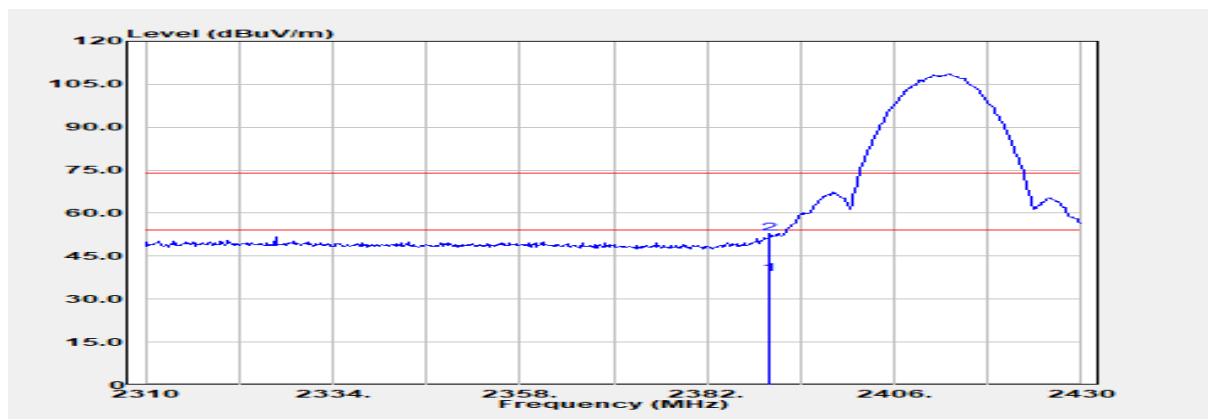
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7.8.1 Radiated Band Edge Measurement Result

Report Number	:ER/2021/70038	Test Site	:SAC C
Operation Mode	:802.11b	Test Date	:2021-08-23
Test Frequency	:2412 MHz	Temp./Humi.	:22.5/61
Test Mode	:BE CH 01	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	33.48	5.18	38.66	54.00	-15.34
2390.000	Peak	47.87	5.18	53.05	74.00	-20.95

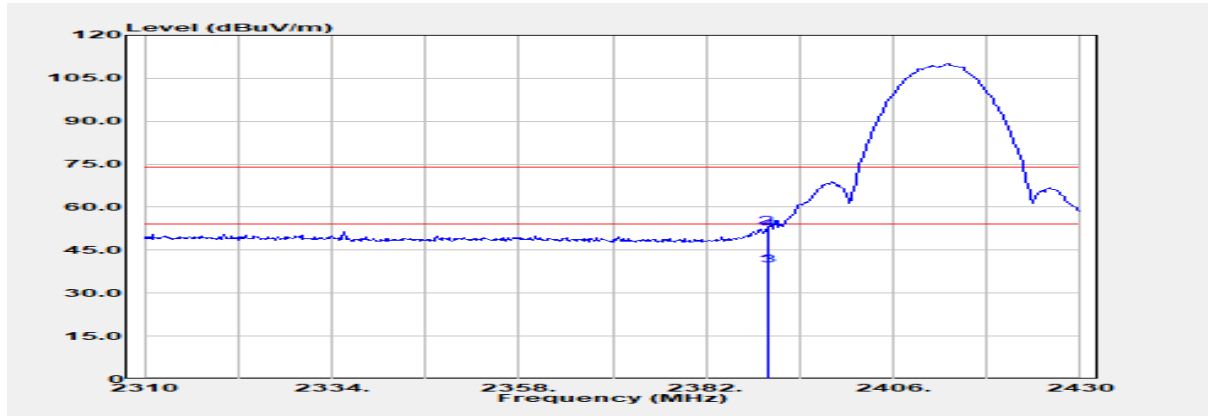
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



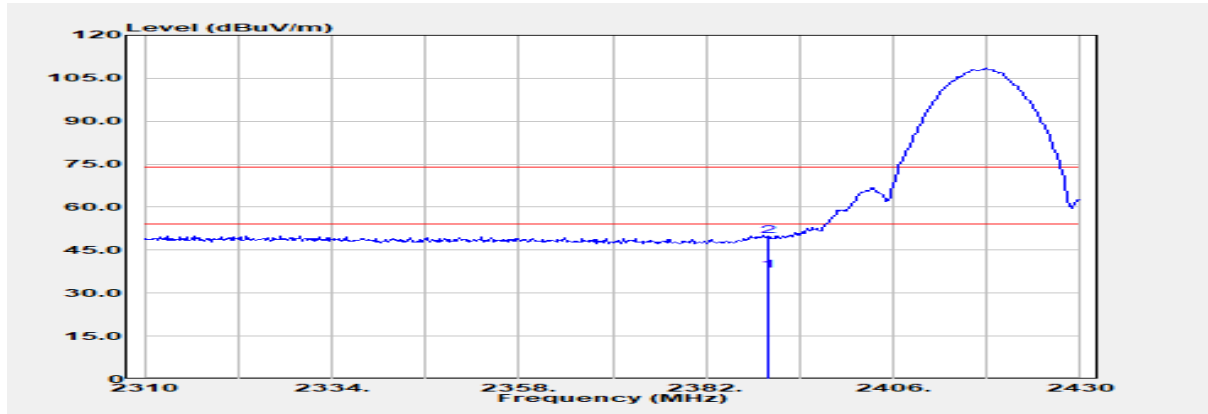
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.808	Average	34.47	5.17	39.64	54.00	-14.36
2389.808	Peak	48.17	5.17	53.34	74.00	-20.66
2390.000	Average	34.61	5.18	39.79	54.00	-14.21
2390.000	Peak	46.72	5.18	51.91	74.00	-22.09

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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :BE CH 02
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	32.85	5.18	38.03	54.00	-15.97
2390.000	Peak	44.89	5.18	50.07	74.00	-23.93

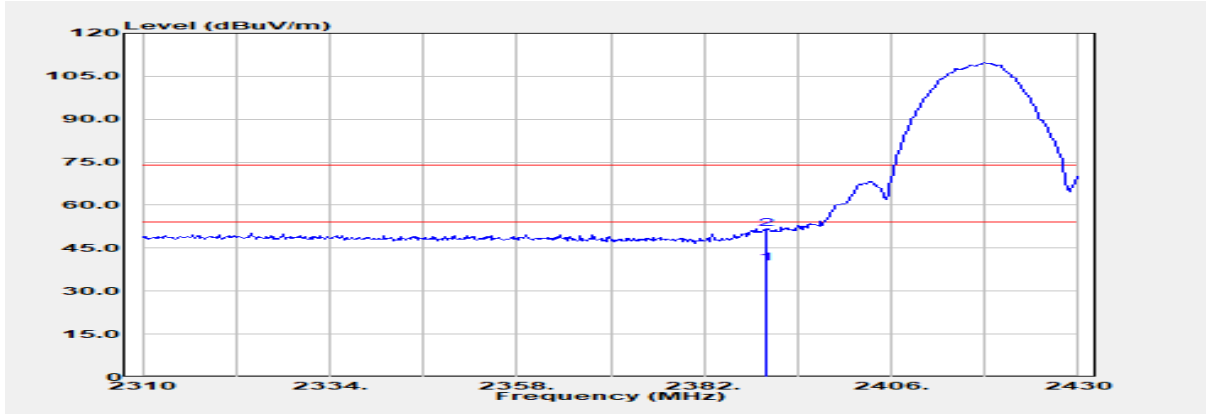
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :BE CH 02
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	34.58	5.18	39.76	54.00	-14.24
2390.000	Peak	46.48	5.18	51.66	74.00	-22.34

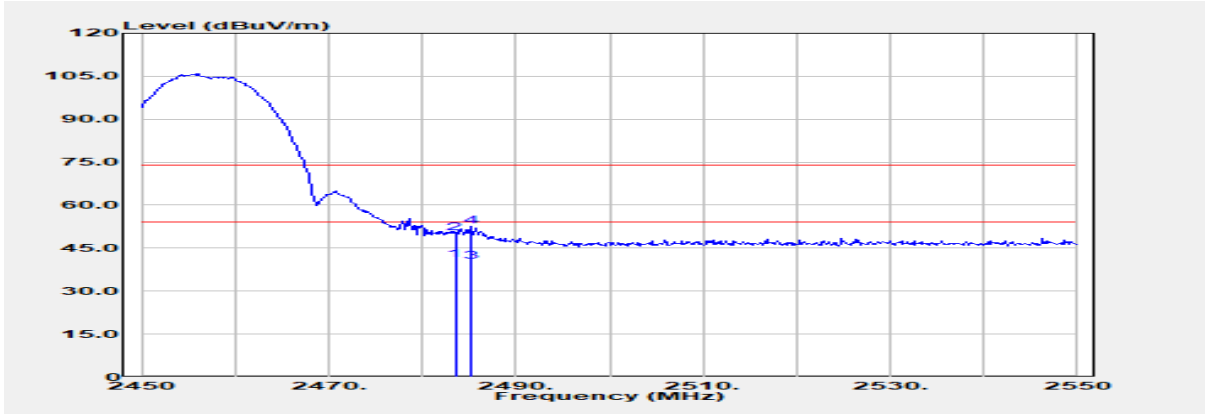
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.500	Average	36.88	4.04	40.92	54.00	-13.08
2483.500	Peak	46.25	4.04	50.29	74.00	-23.71
2485.096	Average	36.19	4.02	40.21	54.00	-13.79
2485.096	Peak	48.53	4.02	52.55	74.00	-21.45

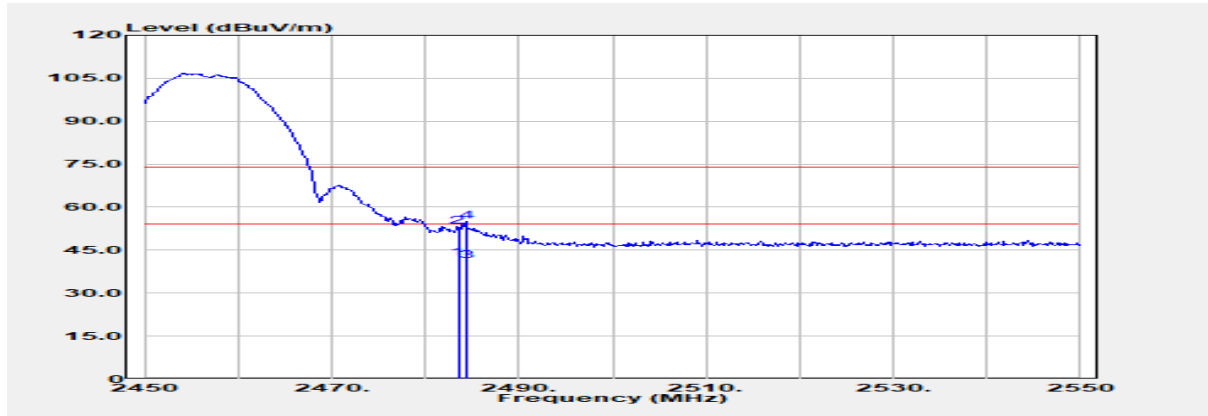
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	37.99	4.04	42.03	54.00	-11.97
2483.500	Peak	49.20	4.04	53.23	74.00	-20.77
2484.295	Average	37.07	4.03	41.10	54.00	-12.90
2484.295	Peak	50.94	4.03	54.97	74.00	-19.03

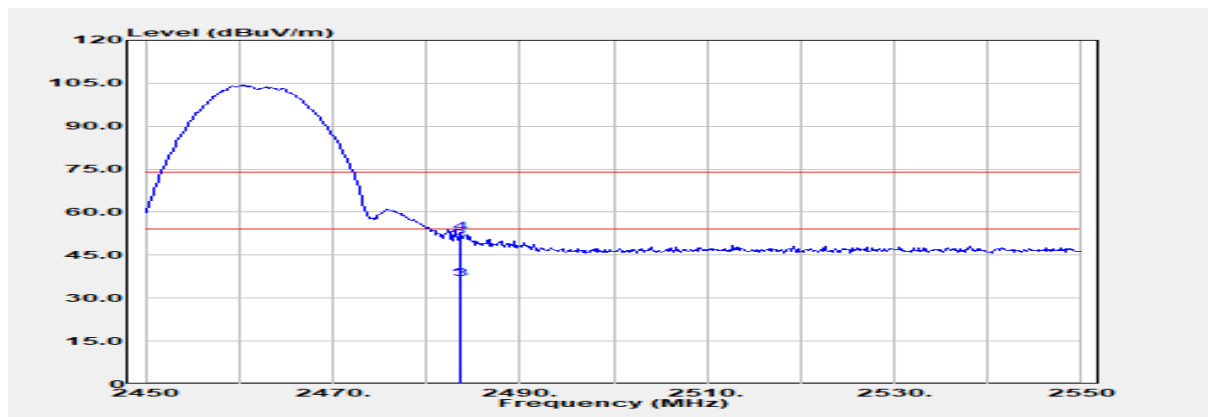
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	32.78	4.04	36.82	54.00	-17.18
2483.500	Peak	46.31	4.04	50.35	74.00	-23.65
2483.654	Average	32.72	4.03	36.75	54.00	-17.25
2483.654	Peak	48.85	4.03	52.88	74.00	-21.12

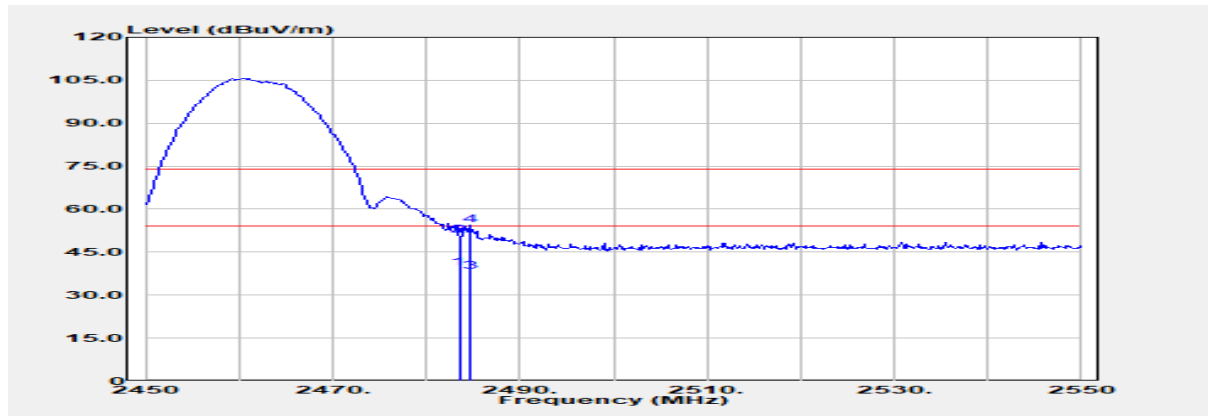
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	35.41	4.04	39.45	54.00	-14.55
2483.500	Peak	46.87	4.04	50.91	74.00	-23.09
2484.615	Average	34.15	4.03	38.18	54.00	-15.82
2484.615	Peak	50.37	4.03	54.40	74.00	-19.60

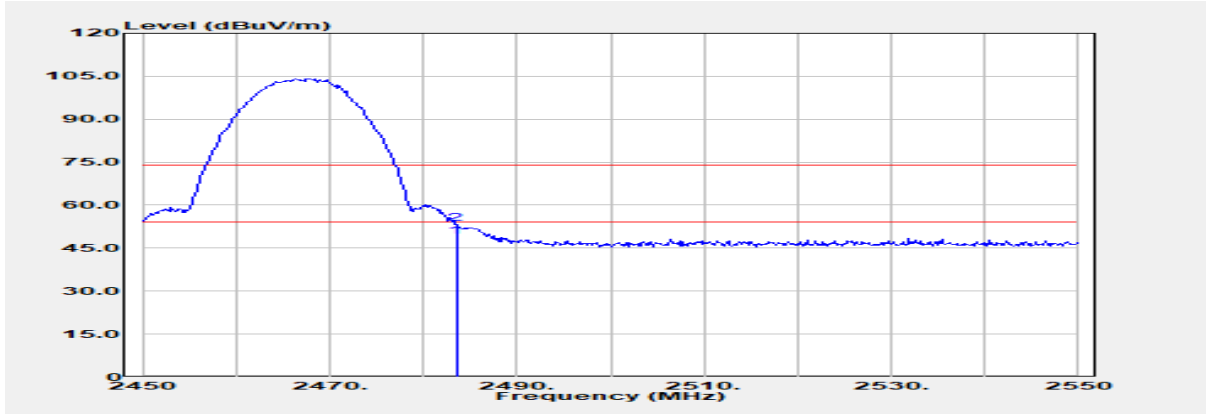
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.1/54
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	45.01	4.04	49.05	54.00	-4.95
2483.500	Peak	49.45	4.04	53.49	74.00	-20.51

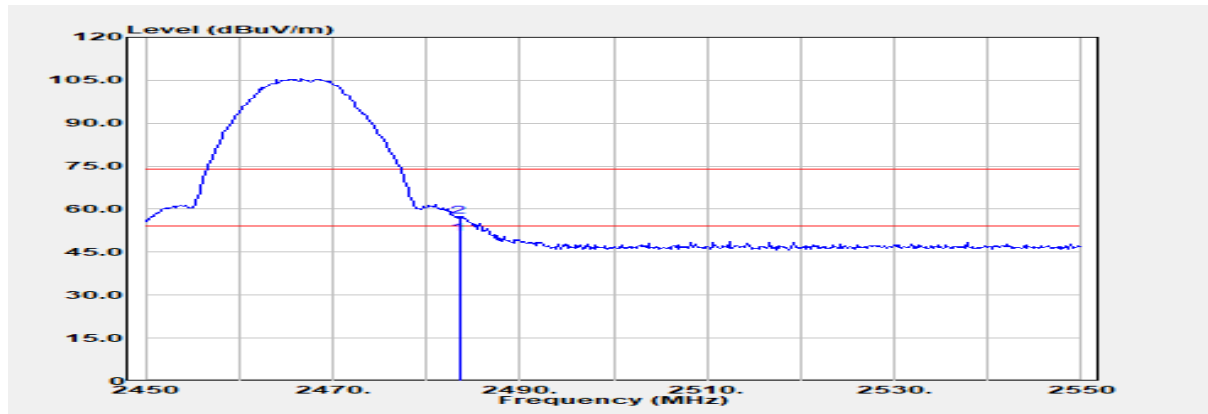
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.1/54
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.52	4.04	51.56	54.00	-2.44
2483.500	Peak	53.54	4.04	57.57	74.00	-16.43

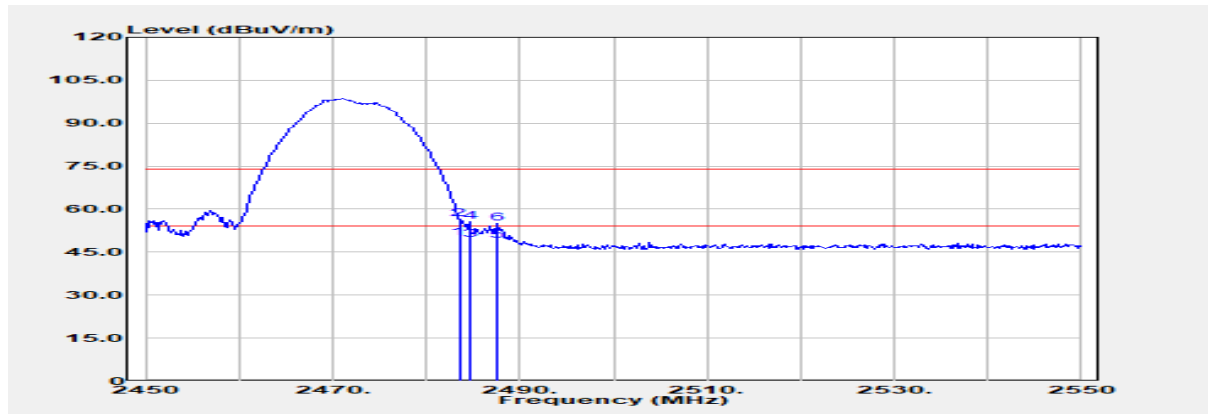
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
2483.500	Average	45.77	4.04	49.81	54.00	-4.19
2483.500	Peak	52.55	4.04	56.58	74.00	-17.42
2484.615	Average	45.18	4.03	49.21	54.00	-4.79
2484.615	Peak	51.57	4.03	55.60	74.00	-18.40
2487.660	Average	44.93	4.00	48.93	54.00	-5.07
2487.660	Peak	51.10	4.00	55.10	74.00	-18.90

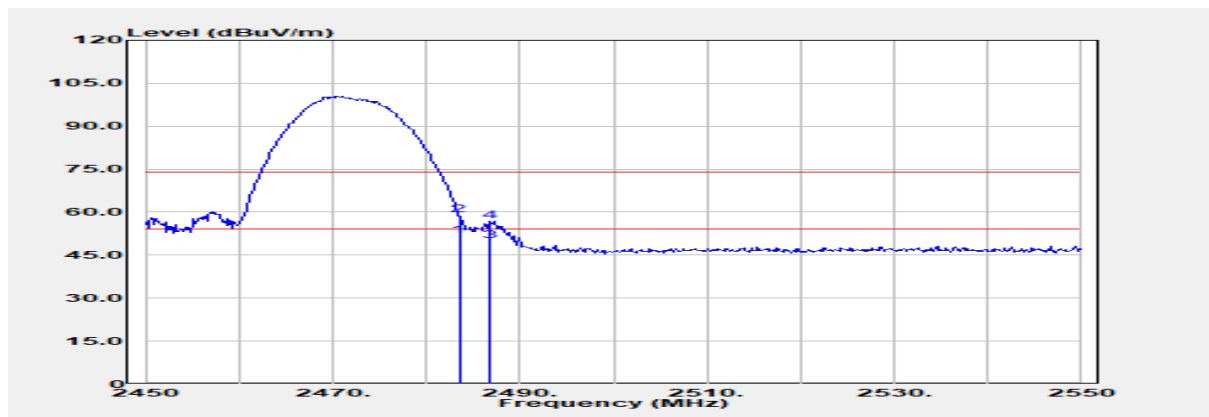
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Report Number :ER/2021/70038
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.5/61
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.74	4.04	51.78	54.00	-2.22
2483.500	Peak	55.03	4.04	59.07	74.00	-14.93
2486.699	Average	45.91	4.01	49.92	54.00	-4.08
2486.699	Peak	52.95	4.01	56.96	74.00	-17.04

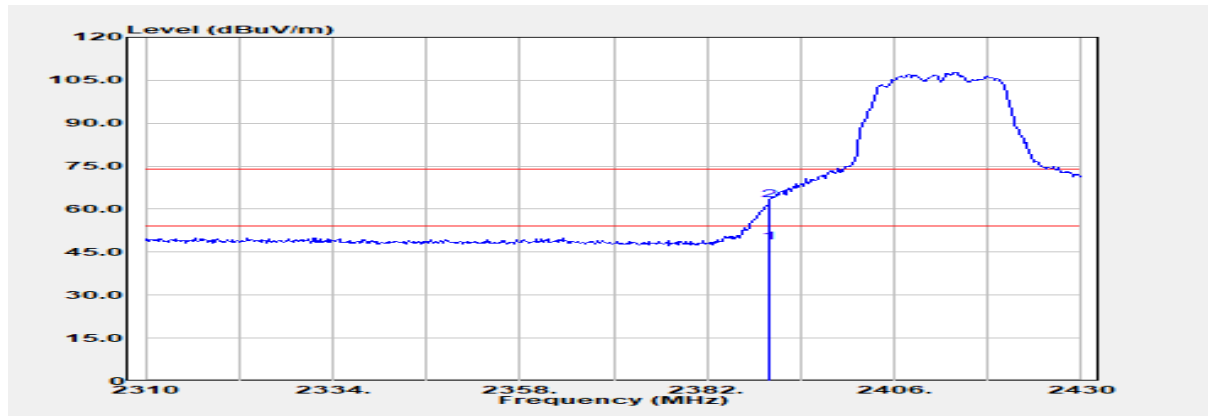
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.2/55
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	43.37	5.18	48.55	54.00	-5.45
2390.000	Peak	58.04	5.18	63.22	74.00	-10.78

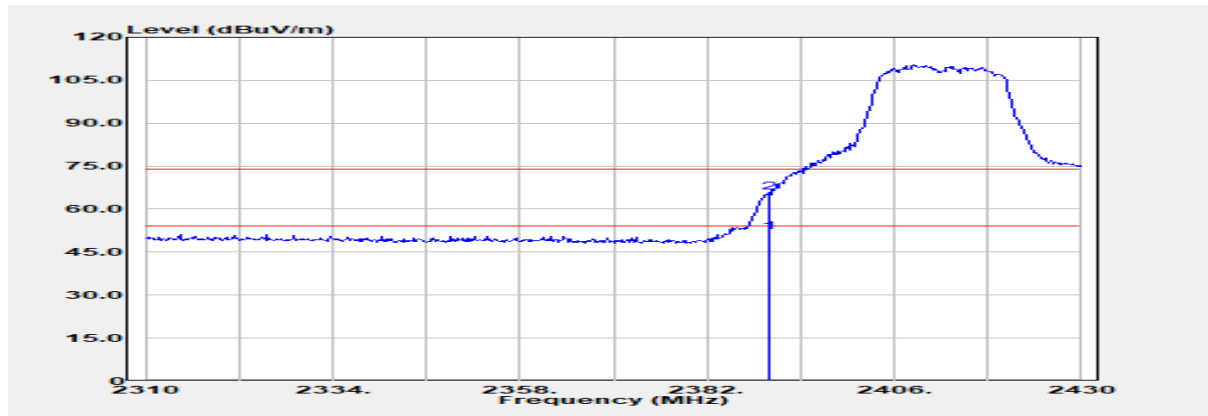
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.2/55
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	46.74	5.18	51.92	54.00	-2.08
2390.000	Peak	60.77	5.18	65.95	74.00	-8.05

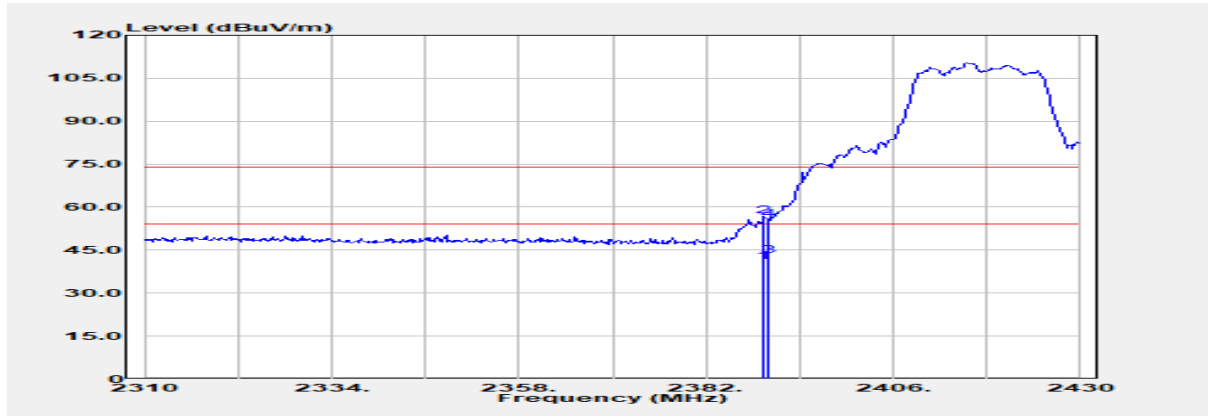
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :BE CH 02
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.423	Average	35.77	5.15	40.92	54.00	-13.08
2389.423	Peak	51.83	5.15	56.98	74.00	-17.02
2390.000	Average	37.81	5.18	42.99	54.00	-11.01
2390.000	Peak	50.59	5.18	55.77	74.00	-18.23

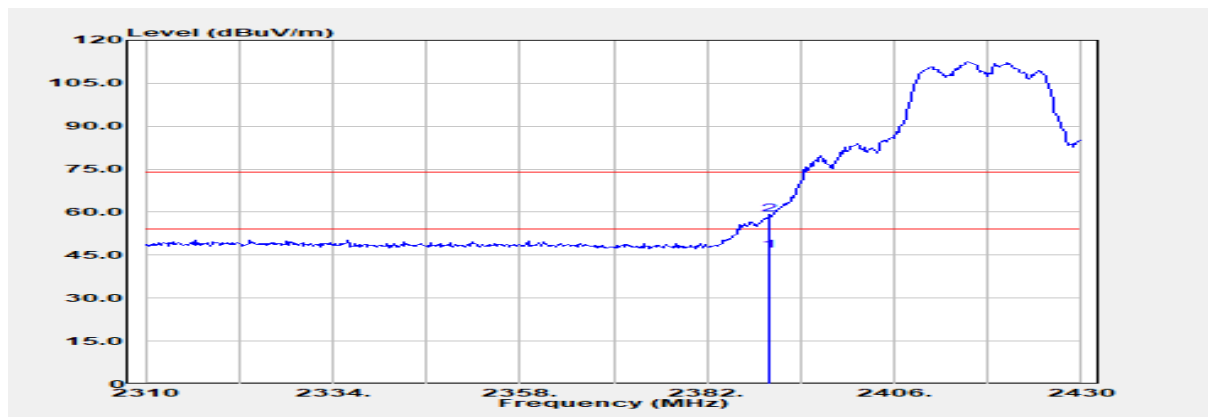
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :BE CH 02
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	41.29	5.18	46.47	54.00	-7.53
2390.000	Peak	53.97	5.18	59.15	74.00	-14.85

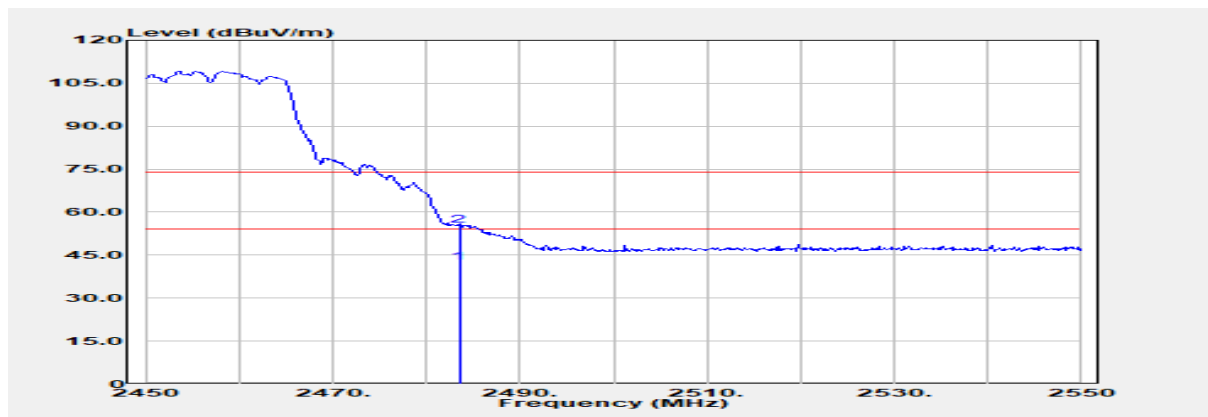
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	38.42	4.04	42.46	54.00	-11.54
2483.500	Peak	51.31	4.04	55.34	74.00	-18.66

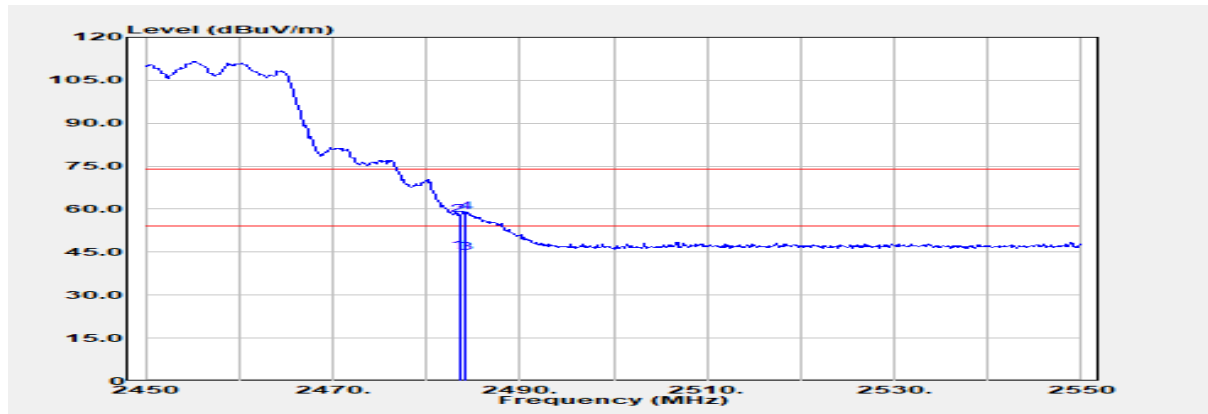
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	41.49	4.04	45.53	54.00	-8.47
2483.500	Peak	53.99	4.04	58.02	74.00	-15.98
2484.135	Average	40.66	4.03	44.69	54.00	-9.31
2484.135	Peak	55.06	4.03	59.09	74.00	-14.91

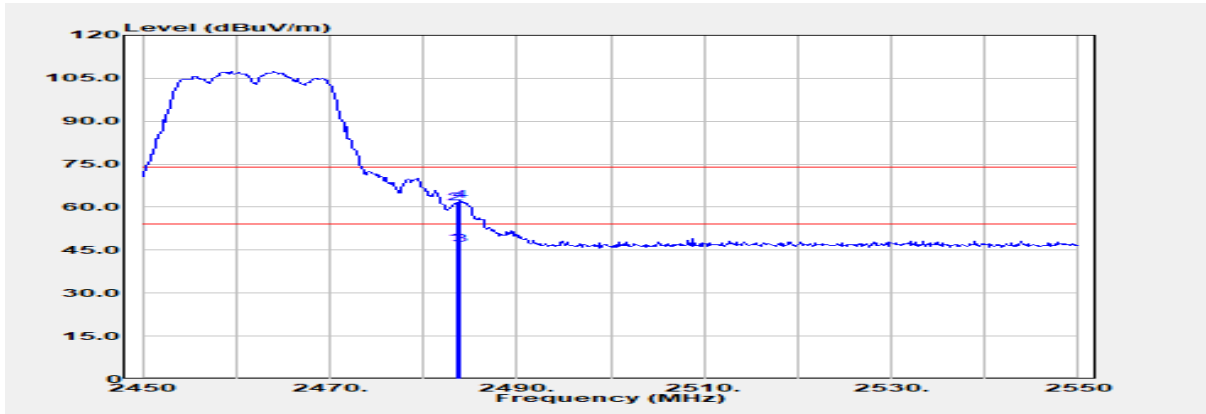
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.13	4.04	47.17	54.00	-6.83
2483.500	Peak	57.18	4.04	61.22	74.00	-12.78
2483.814	Average	43.03	4.03	47.06	54.00	-6.94
2483.814	Peak	58.29	4.03	62.33	74.00	-11.67

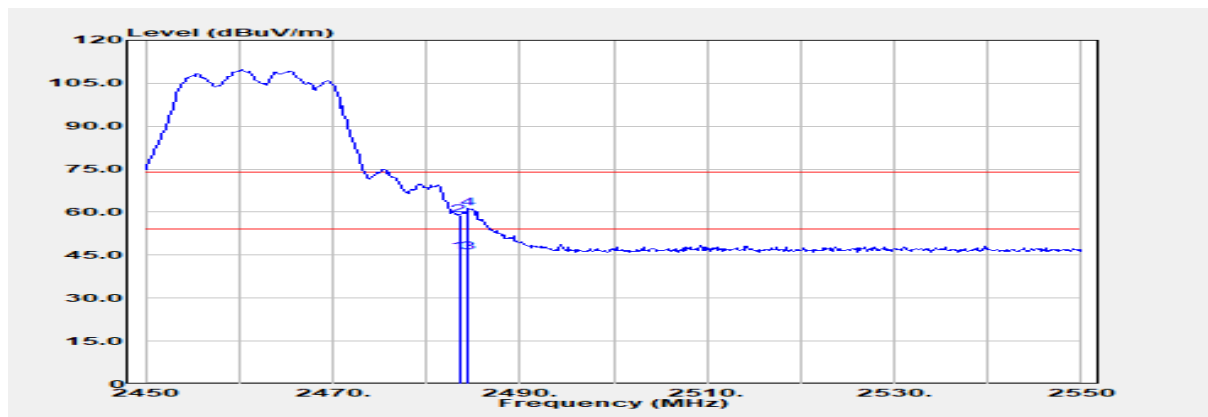
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	41.86	4.04	45.90	54.00	-8.10
2483.500	Peak	54.81	4.04	58.84	74.00	-15.16
2484.455	Average	41.94	4.03	45.97	54.00	-8.03
2484.455	Peak	57.25	4.03	61.28	74.00	-12.72

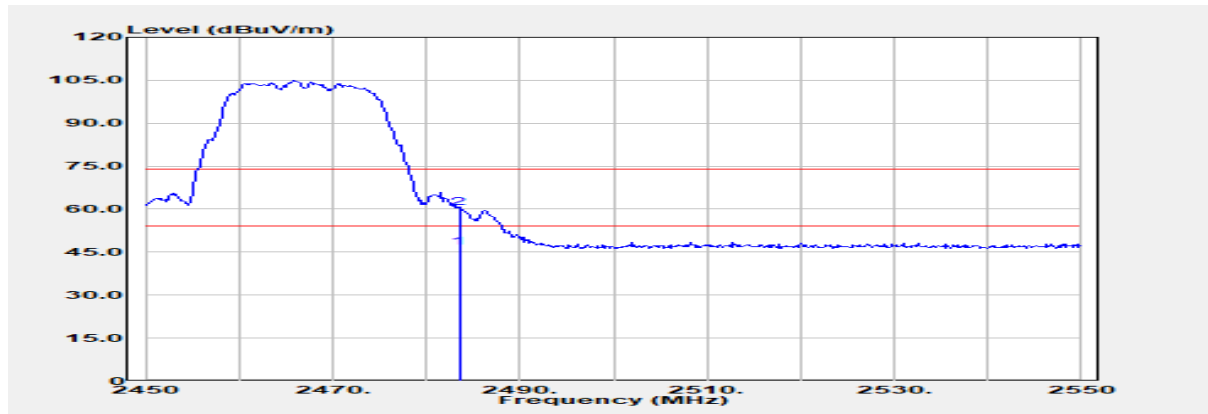
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.45	4.04	46.49	54.00	-7.51
2483.500	Peak	56.38	4.04	60.42	74.00	-13.58

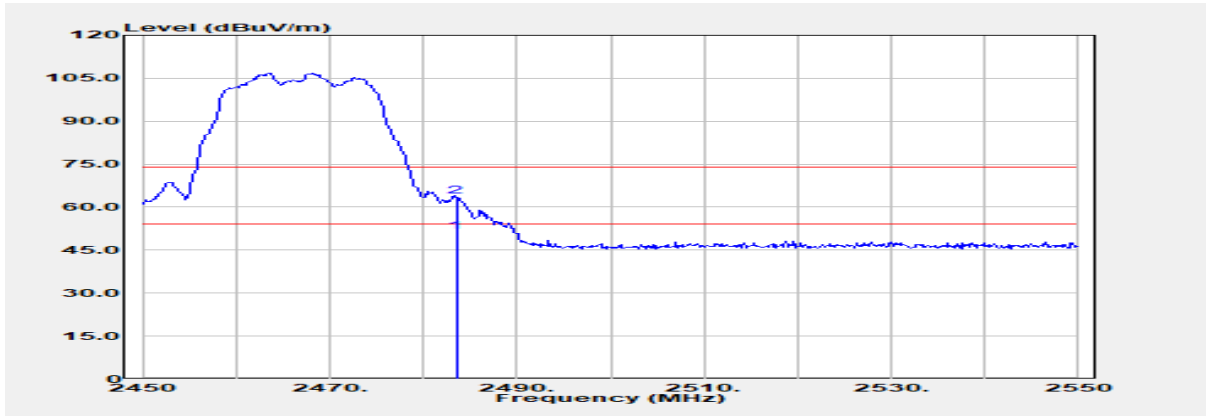
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.6/62
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.53	4.04	51.57	54.00	-2.43
2483.500	Peak	59.77	4.04	63.80	74.00	-10.20

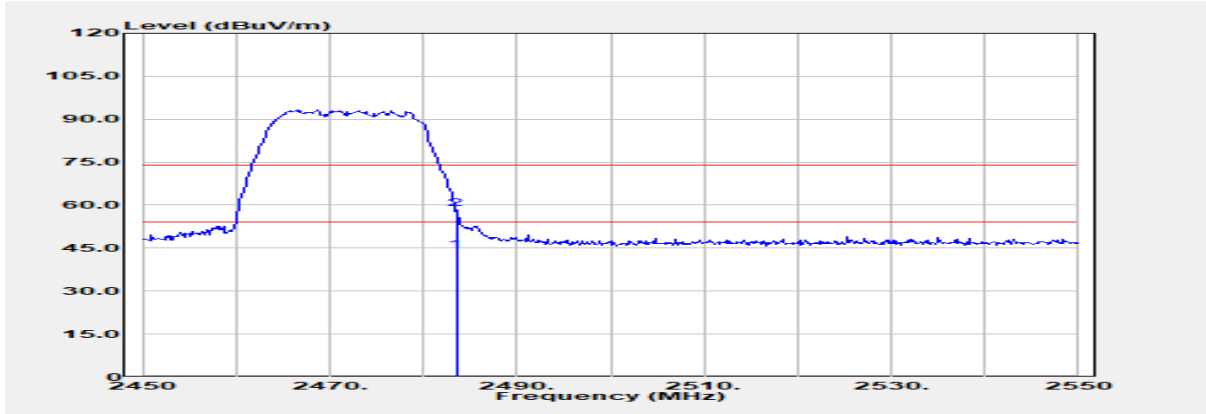
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.2/55
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	40.11	4.04	44.15	54.00	-9.85
2483.500	Peak	54.61	4.04	58.65	74.00	-15.35

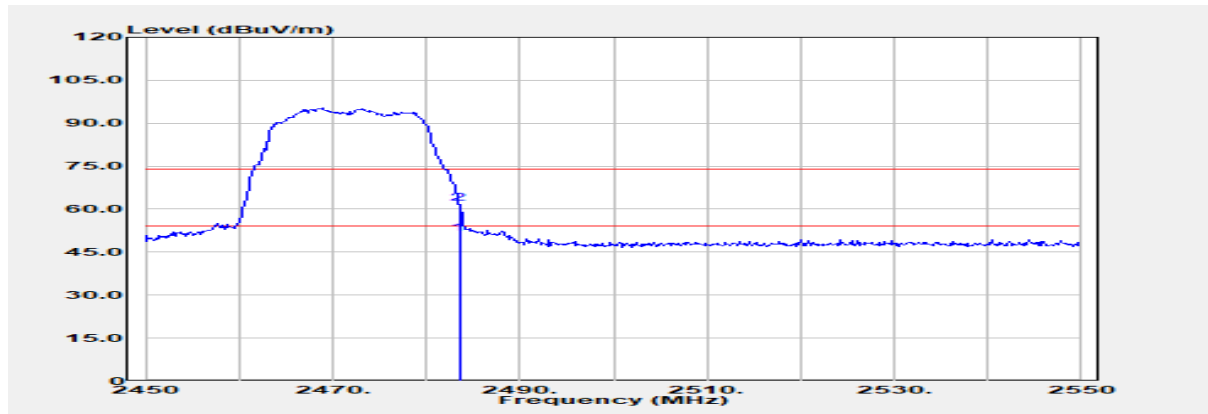
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Report Number :ER/2021/70038
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.2/55
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.44	4.04	51.48	54.00	-2.52
2483.500	Peak	57.99	4.04	62.03	74.00	-11.97

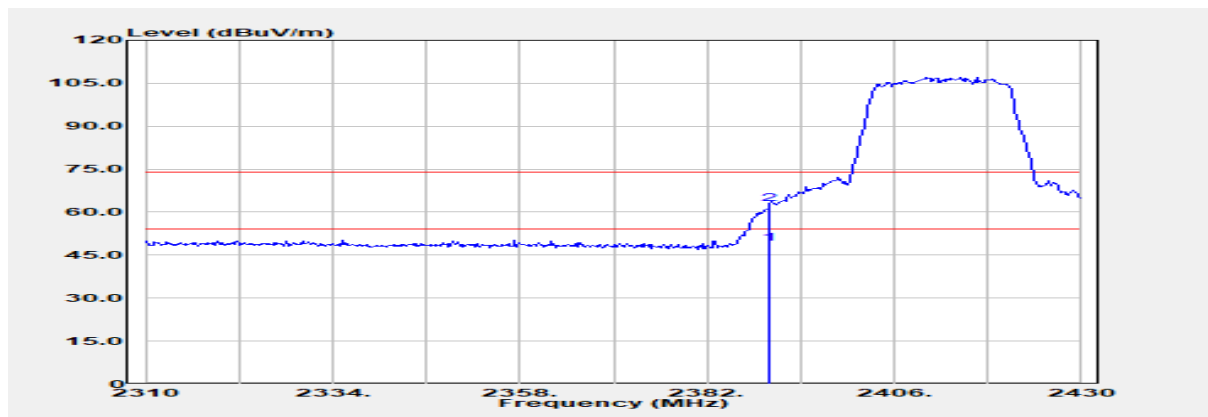
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	43.76	5.18	48.94	54.00	-5.06
2390.000	Peak	57.54	5.18	62.72	74.00	-11.28

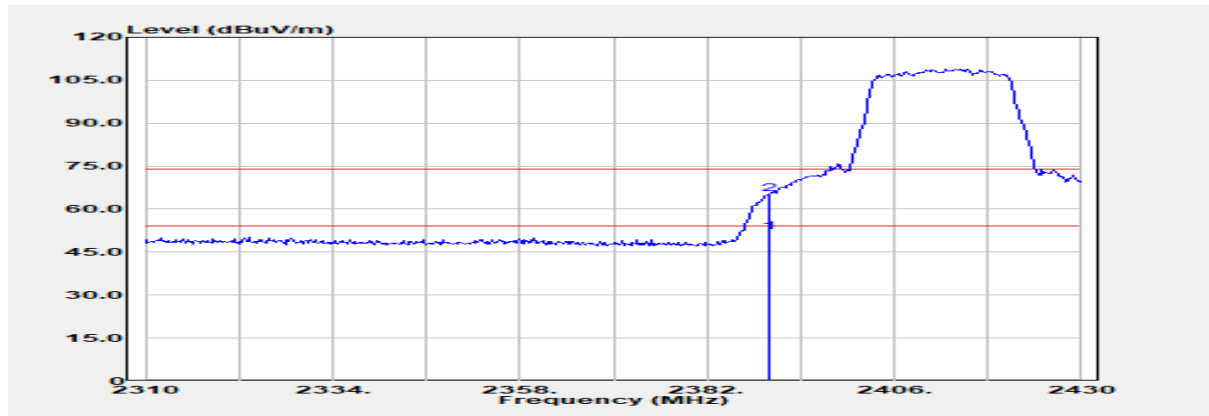
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH 01
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	46.81	5.18	51.99	54.00	-2.01
2390.000	Peak	60.08	5.18	65.26	74.00	-8.74

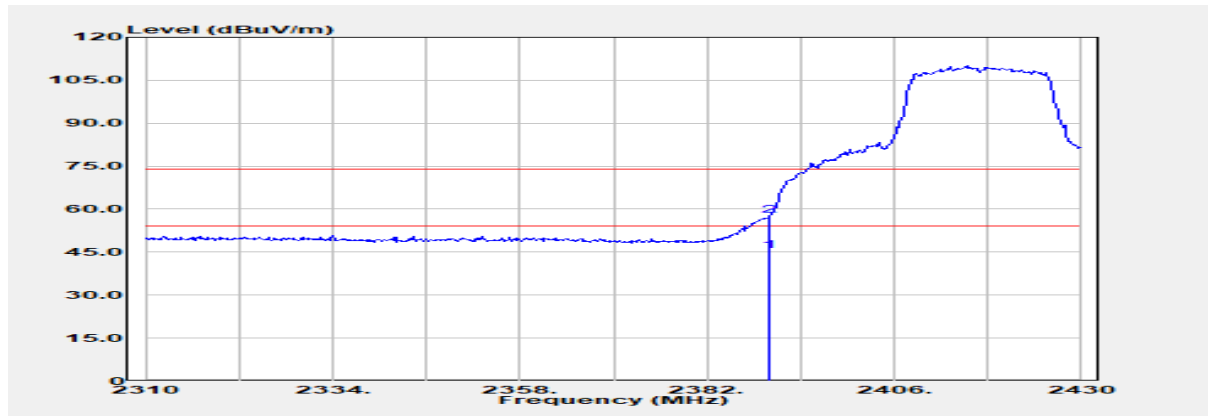
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :BE CH 02
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	40.11	5.18	45.29	54.00	-8.71
2390.000	Peak	52.60	5.18	57.78	74.00	-16.22

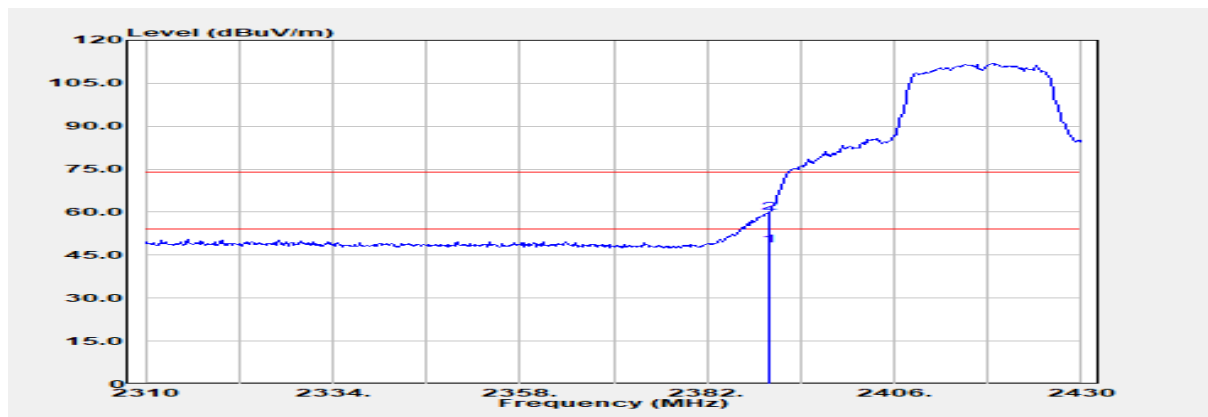
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :BE CH 02
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	43.21	5.18	48.39	54.00	-5.61
2390.000	Peak	54.74	5.18	59.92	74.00	-14.08

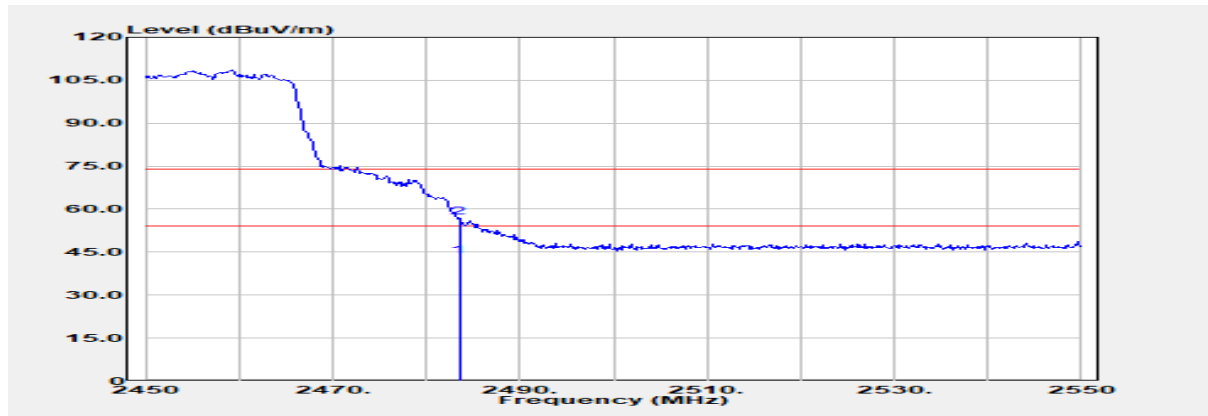
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Average	39.56	4.04	43.60	54.00	-10.40
2483.500	Peak	53.03	4.04	57.07	74.00	-16.93

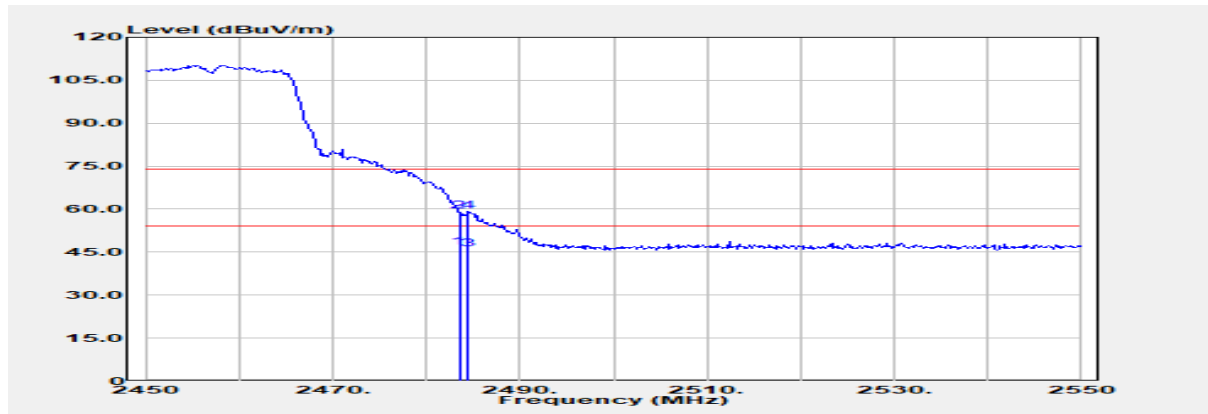
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.49	4.04	46.53	54.00	-7.47
2483.500	Peak	55.35	4.04	59.38	74.00	-14.62
2484.455	Average	41.98	4.03	46.01	54.00	-7.99
2484.455	Peak	55.34	4.03	59.36	74.00	-14.64

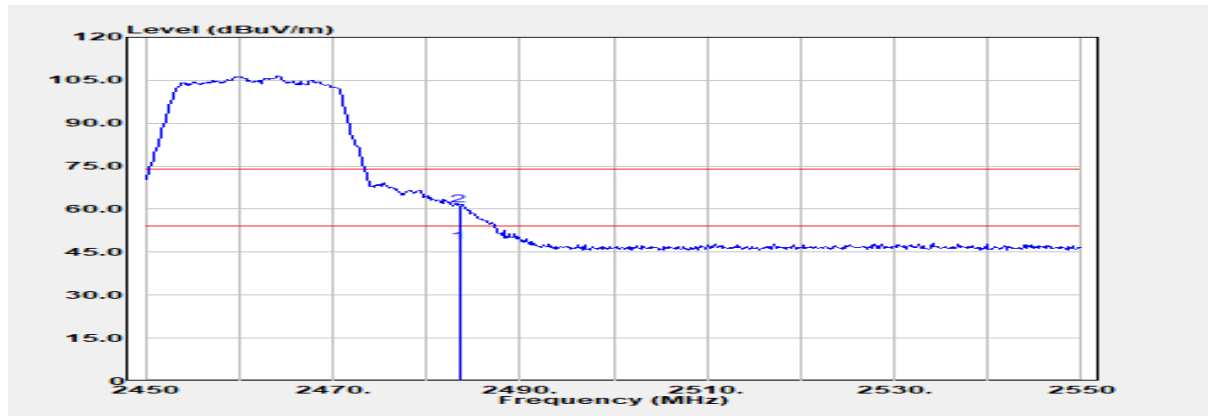
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	44.29	4.04	48.33	54.00	-5.67
2483.500	Peak	57.47	4.04	61.50	74.00	-12.50

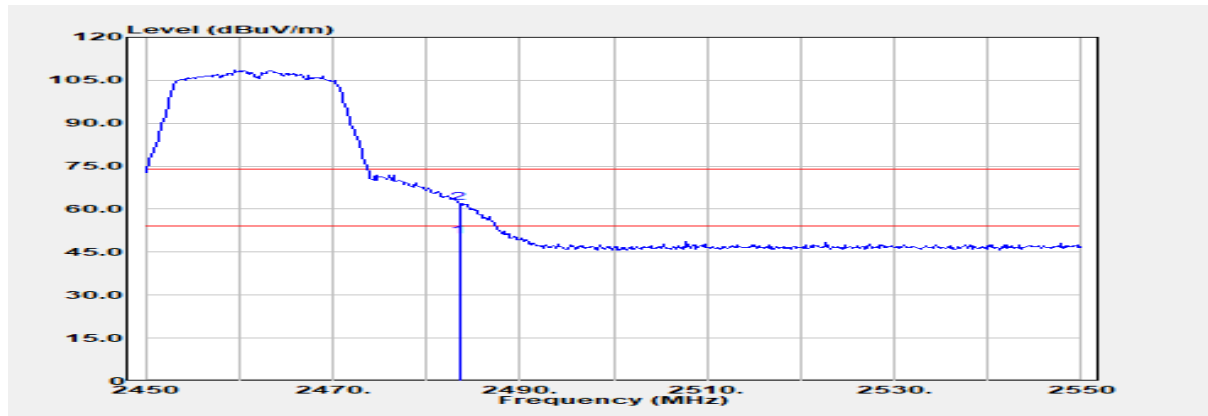
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.46	4.04	50.50	54.00	-3.50
2483.500	Peak	58.36	4.04	62.40	74.00	-11.60

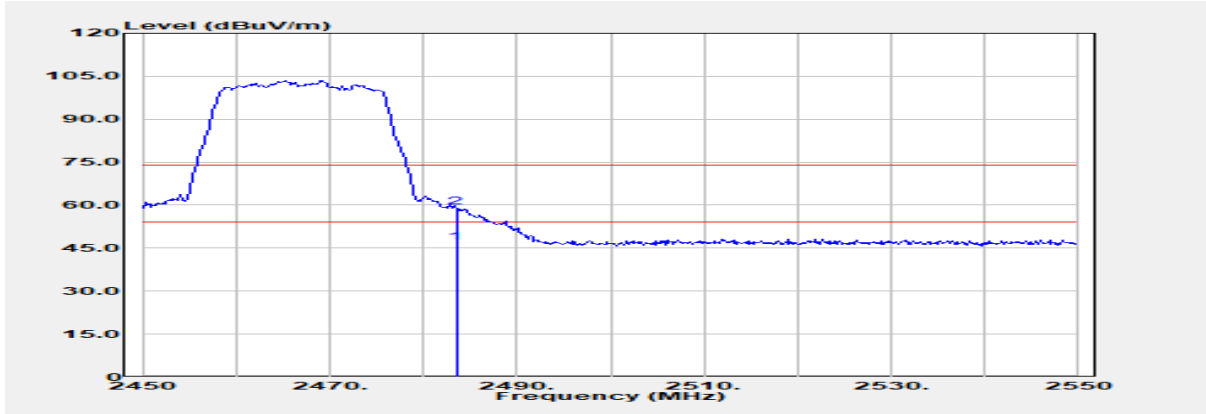
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	42.78	4.04	46.82	54.00	-7.18
2483.500	Peak	55.26	4.04	59.29	74.00	-14.71

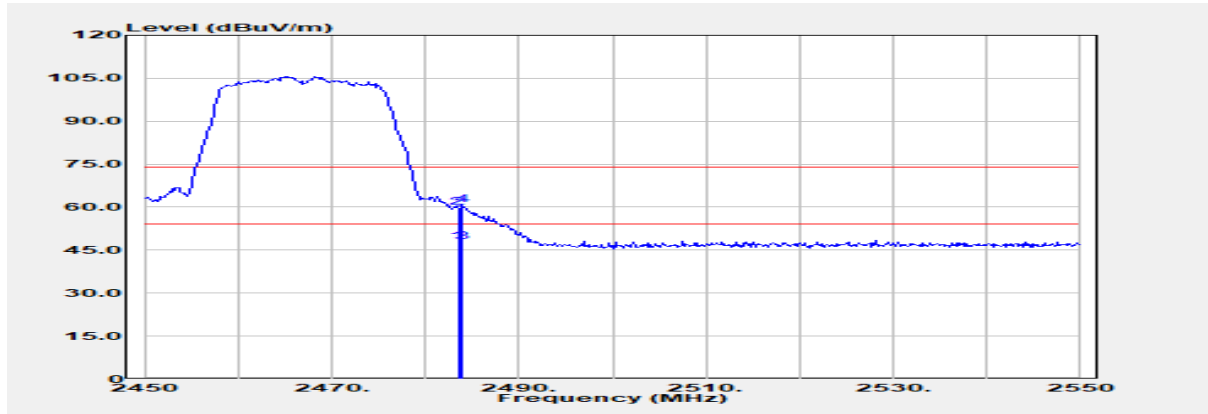
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.7/60
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.85	4.04	47.89	54.00	-6.11
2483.500	Peak	55.87	4.04	59.90	74.00	-14.10
2483.974	Average	43.65	4.03	47.68	54.00	-6.32
2483.974	Peak	56.60	4.03	60.64	74.00	-13.36

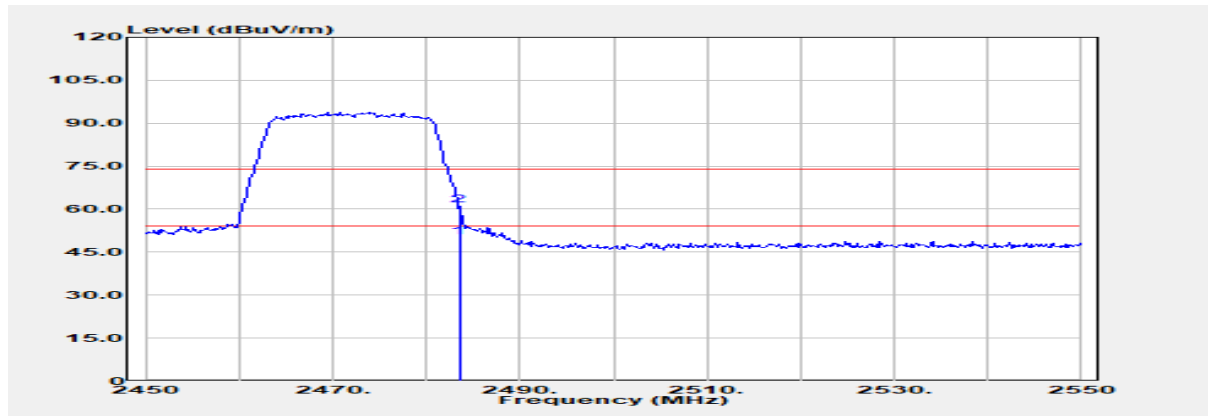
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.3/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	46.19	4.04	50.23	54.00	-3.77
2483.500	Peak	57.19	4.04	61.22	74.00	-12.78

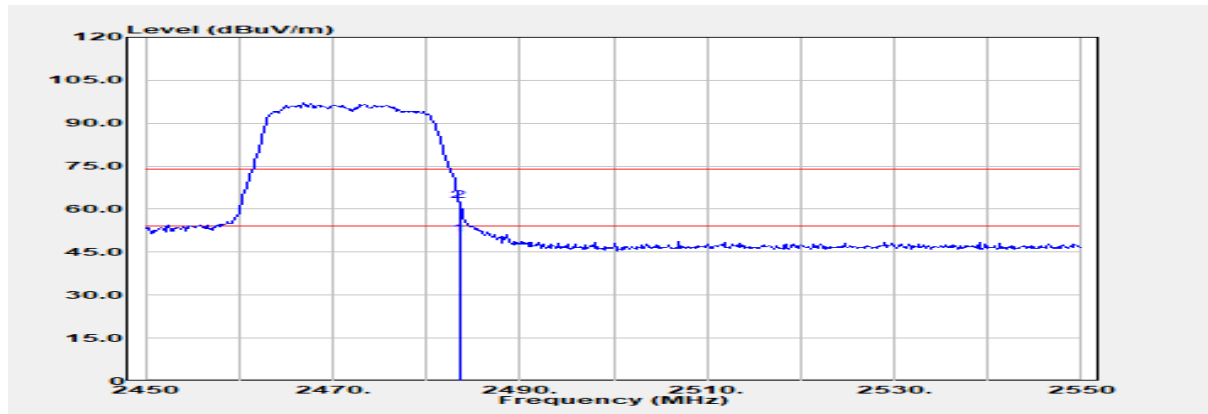
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Report Number :ER/2021/70038
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.3/56
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.11	4.04	51.15	54.00	-2.85
2483.500	Peak	58.88	4.04	62.92	74.00	-11.08

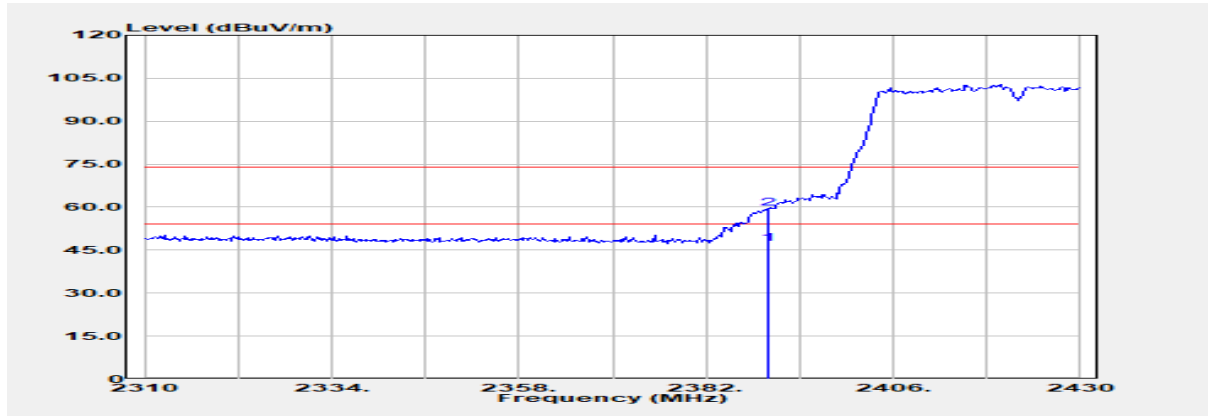
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.000	Average	42.12	5.18	47.30	54.00	-6.70
2390.000	Peak	54.23	5.18	59.41	74.00	-14.59

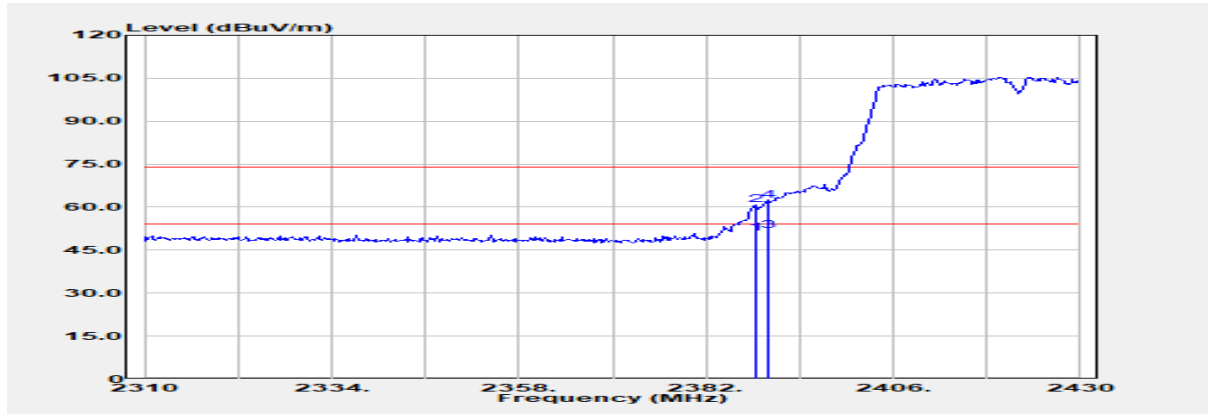
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH 03
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2388.461	Average	45.86	5.11	50.97	54.00	-3.03
2388.461	Peak	55.59	5.11	60.71	74.00	-13.29
2390.000	Average	46.48	5.18	51.66	54.00	-2.34
2390.000	Peak	57.09	5.18	62.27	74.00	-11.73

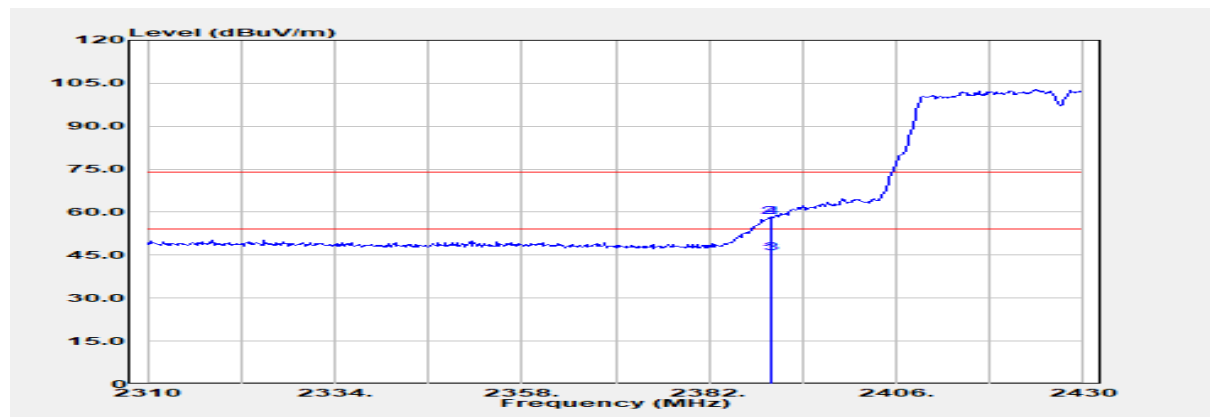
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



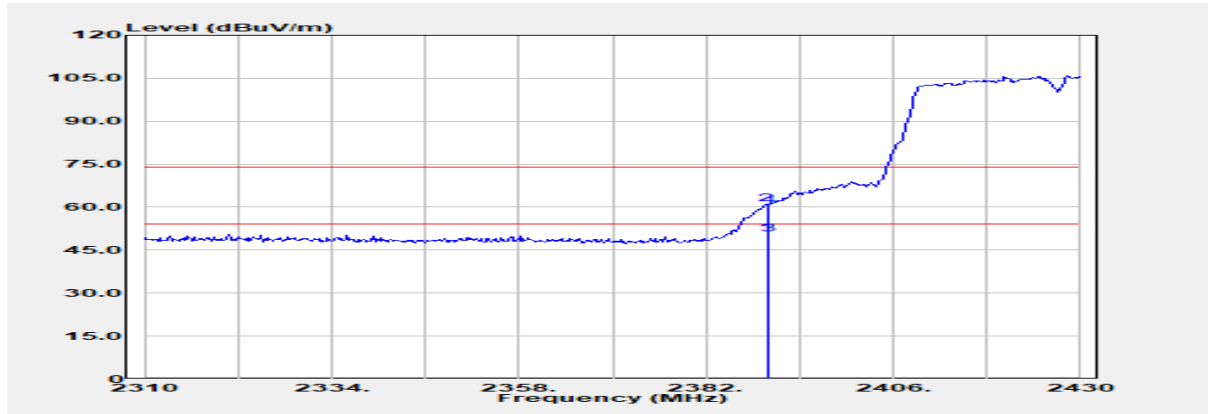
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.808	Average	40.32	5.17	45.49	54.00	-8.51
2389.808	Peak	53.25	5.17	58.42	74.00	-15.58
2390.000	Average	40.55	5.18	45.73	54.00	-8.27
2390.000	Peak	53.23	5.18	58.41	74.00	-15.59

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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :BE CH 04
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2389.808	Average	45.22	5.17	50.39	54.00	-3.61
2389.808	Peak	55.97	5.17	61.15	74.00	-12.85
2390.000	Average	45.26	5.18	50.44	54.00	-3.56
2390.000	Peak	55.34	5.18	60.52	74.00	-13.48

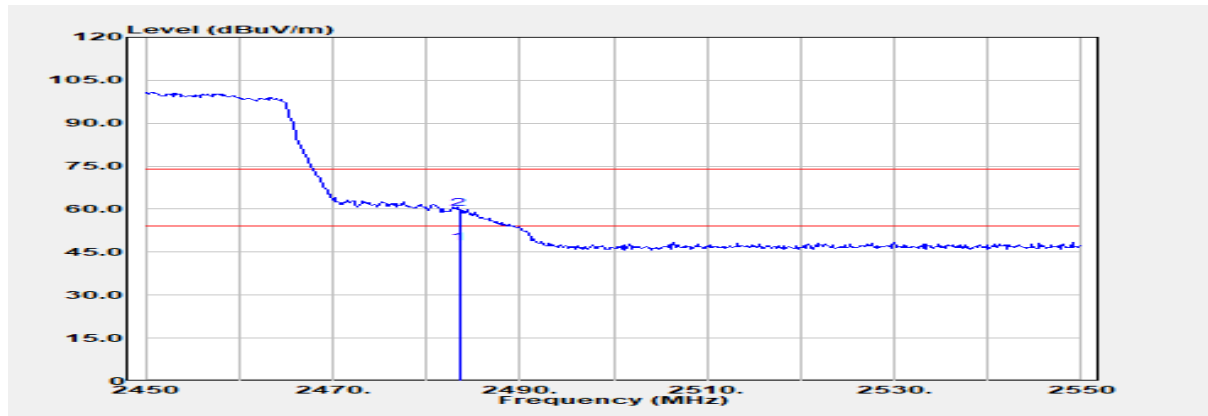
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.4/57
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.95	4.04	47.99	54.00	-6.01
2483.500	Peak	56.25	4.04	60.28	74.00	-13.72

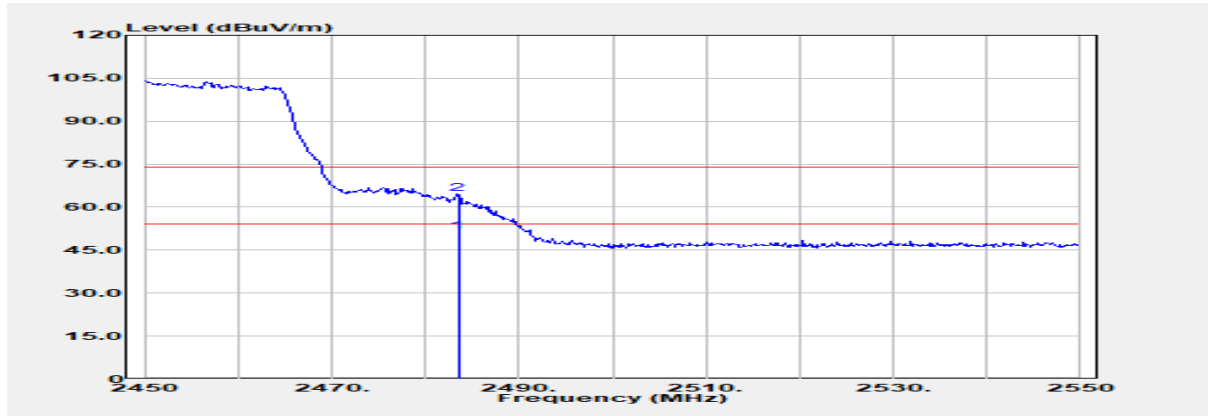
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :BE CH 08
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-26
 Temp./Humi. :24.4/57
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	47.33	4.04	51.37	54.00	-2.63
2483.500	Peak	60.50	4.04	64.53	74.00	-9.47

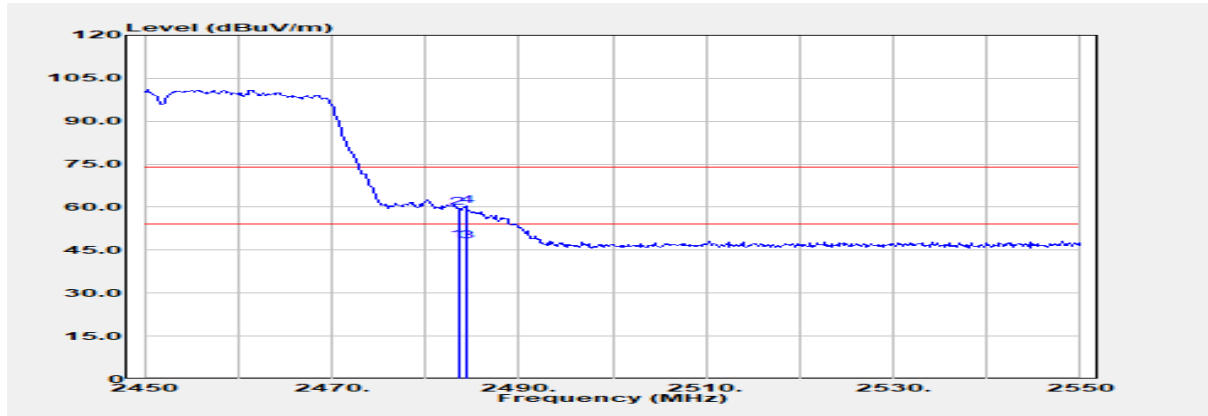
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	44.42	4.04	48.46	54.00	-5.54
2483.500	Peak	55.89	4.04	59.93	74.00	-14.07
2484.295	Average	44.08	4.03	48.11	54.00	-5.89
2484.295	Peak	56.46	4.03	60.48	74.00	-13.52

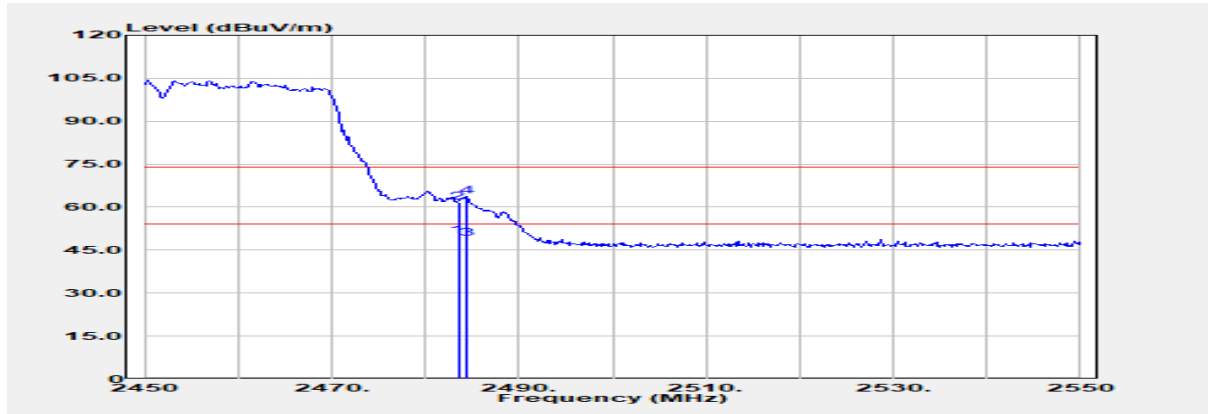
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH 09
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	45.86	4.04	49.90	54.00	-4.10
2483.500	Peak	57.62	4.04	61.66	74.00	-12.34
2484.295	Average	44.98	4.03	49.01	54.00	-4.99
2484.295	Peak	59.73	4.03	63.76	74.00	-10.24

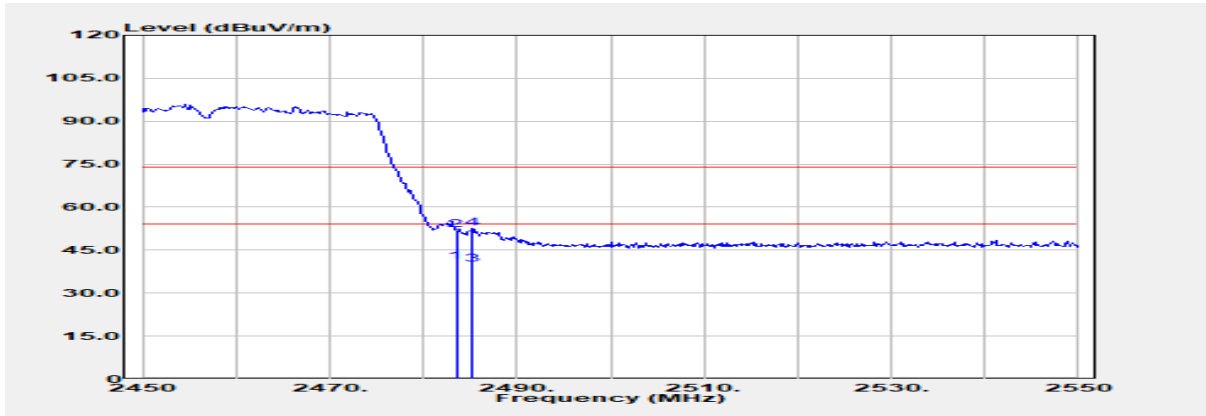
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	36.87	4.04	40.91	54.00	-13.09
2483.500	Peak	48.05	4.04	52.09	74.00	-21.91
2485.256	Average	36.03	4.02	40.05	54.00	-13.95
2485.256	Peak	48.52	4.02	52.54	74.00	-21.46

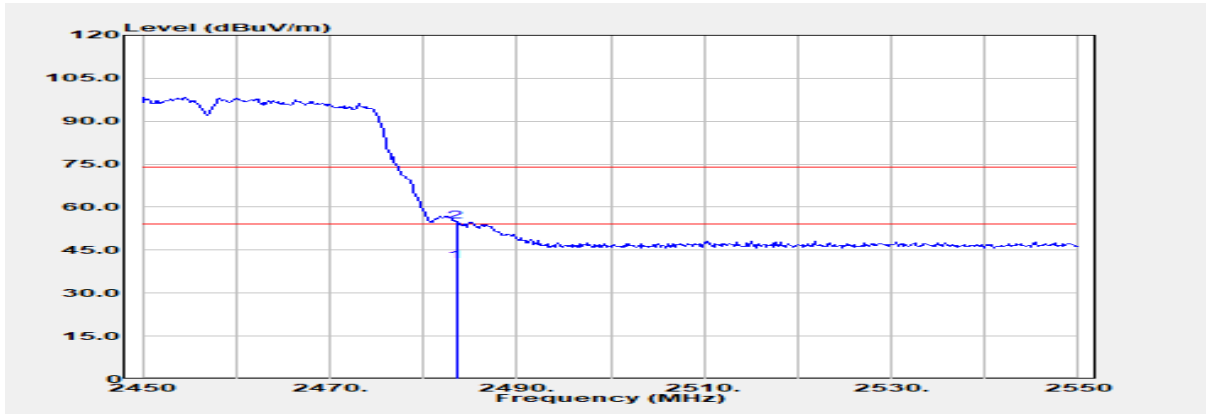
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	37.28	4.04	41.32	54.00	-12.68
2483.500	Peak	51.15	4.04	55.19	74.00	-18.81

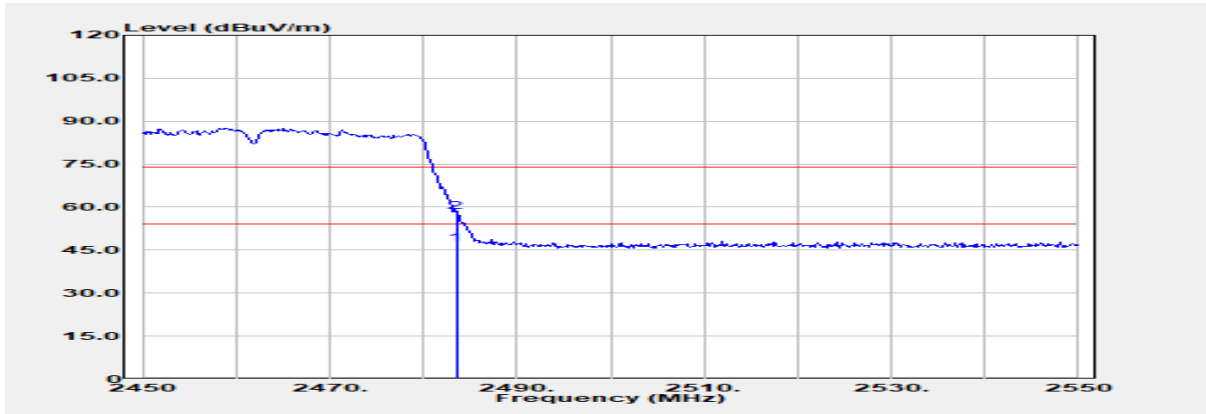
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	43.25	4.04	47.29	54.00	-6.71
2483.500	Peak	54.22	4.04	58.26	74.00	-15.74

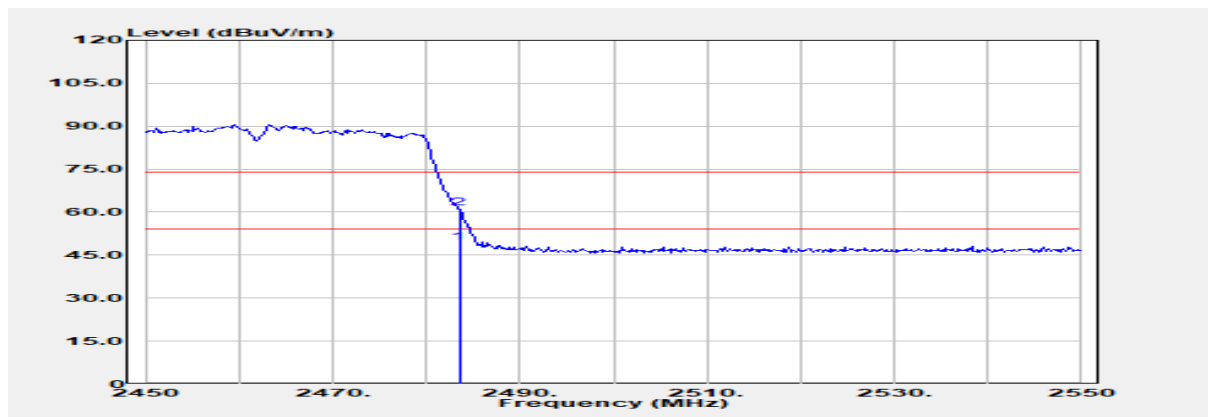
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Report Number :ER/2021/70038
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :NB Plane

Test Site :SAC C
 Test Date :2021-08-23
 Temp./Humi. :22.8/59
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.500	Average	45.24	4.04	49.28	54.00	-4.72
2483.500	Peak	57.41	4.04	61.44	74.00	-12.56

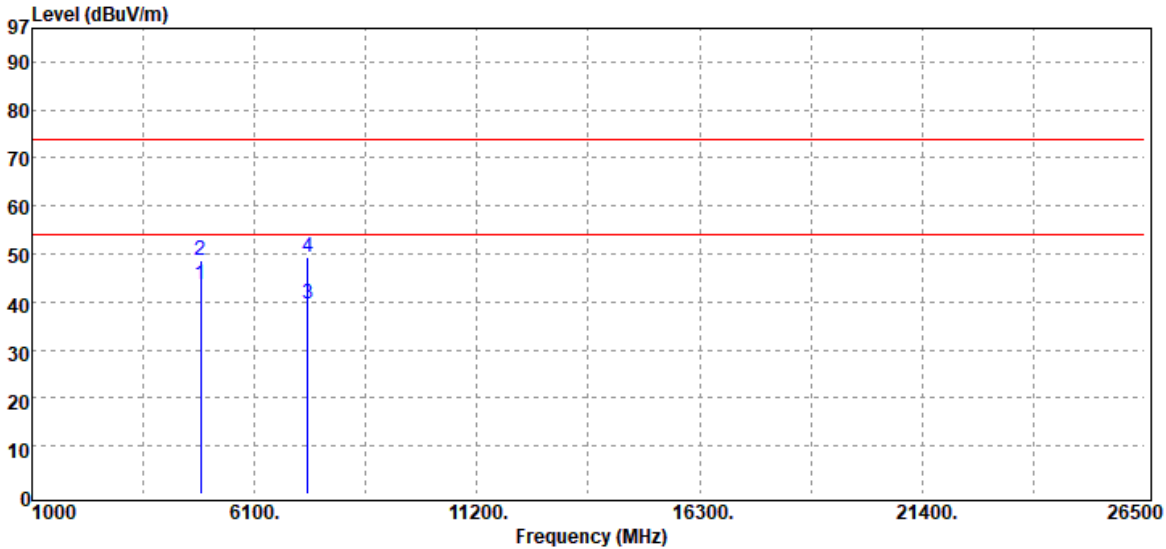
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7.8.2 Above 1GHz Emission:

Report Number	:ER-2021-70038	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2021-08-18
Test Frequency	:2437 MHz	Temp./Humi.	:27.4/48
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Ricky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	36.66	7.09	43.75	54.00	-10.25
4874.00	Peak	41.42	7.09	48.51	74.00	-25.49
7311.00	Average	24.85	14.63	39.48	54.00	-14.52
7311.00	Peak	34.62	14.63	49.25	74.00	-24.75

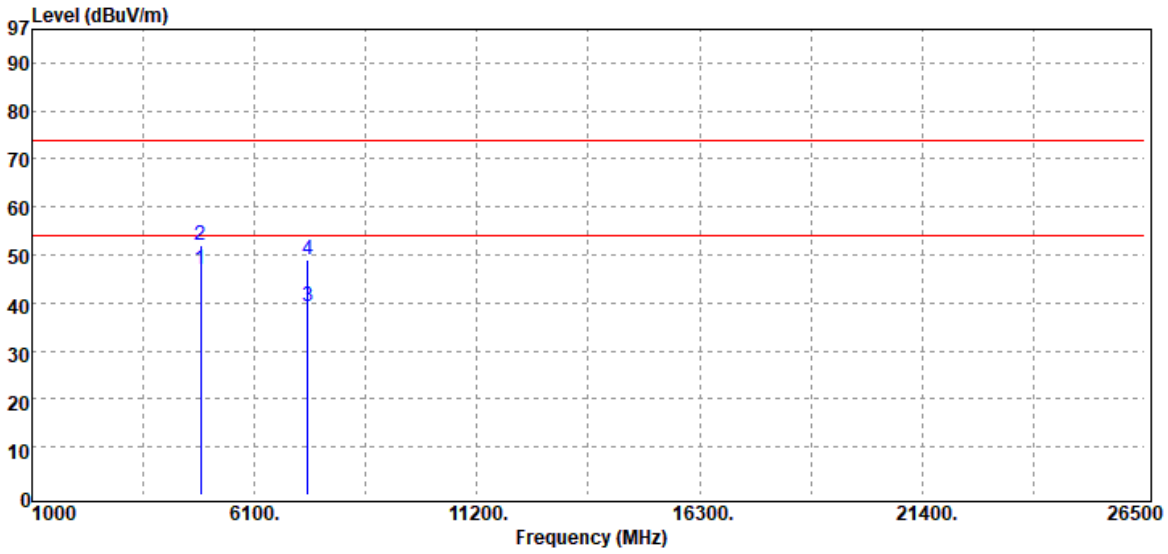
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Report Number :ER-2021-70038
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane

Test Site :SAC 3
 Test Date :2021-08-18
 Temp./Humi. :27.4/48
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	40.03	7.09	47.12	54.00	-6.88
4874.00	Peak	44.82	7.09	51.91	74.00	-22.09
7311.00	Average	24.79	14.63	39.42	54.00	-14.58
7311.00	Peak	34.29	14.63	48.92	74.00	-25.08

~ End of Report ~

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