

ELECTROMAGNETIC EMISSIONS CLASS II & IV PERMISSIVE CHANGE REPORT



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

Manufacturer: Qunata Computer Inc.
211 Wen Hwa 2nd Rd., Kueishan, Taoyuan 33377, Taiwan
7c Modular Platform

Product Name:

Brand Name: acer

FCC Model No.: QSIP7180P

IC Model No.: ASIP7180P

Report Number: E2/2022/30028

FCC ID HLZQSIP7180PQ

IC: 1754F-QSIP7180PAI

Issue Date: Apr. 25, 2022

Date of Test: Mar. 15, 2022 ~ Mar. 31, 2022

Date of EUT Received: Mar. 07, 2022

Approved By

Arno Hsieh

Arno Hsieh

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, ISED RSS-247.

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2022/30028	00	Original.	Apr. 25, 2022	Yi-Shan Tsai	

Note:

- The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	7c Modular Platform
Brand Name:	acer
FCC Model No.:	QSIP7180P
IC Model No.:	ASIP7180P
EUT Series No.:	PJ223044010
Power Supply:	7.7Vdc from Rechargeable Li-ion Battery Pack 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter

1.2 RF Specification

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2462	13	22.49	23.04	DSSS
802.11g	2412~2462	13	23.96	23.34	OFDM
802.11n20	2412~2472	13	23.79	23.47	OFDM
802.11n40	2422~2462	9	23.48	22.88	OFDM
802.11ac20	2412~2472	13	24.68	23.43	OFDM
802.11ac40	2422~2462	9	23.70	22.83	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		256 QAM, 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: up to 173.4 Mbps			
		802.11 ac_40MHz: up to 400 Mbps			

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1.3 Antenna Designation

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	WNC	Main	DQ6S15G6100 (81EABS15.G61)	2412-2472	0.07
		Aux	DQ6S15G6000 (81EABS15.G60)		2.87

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		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted 4	TW0028	
		Conducted 5		
		Conducted 6		
		Conduction C		
		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:

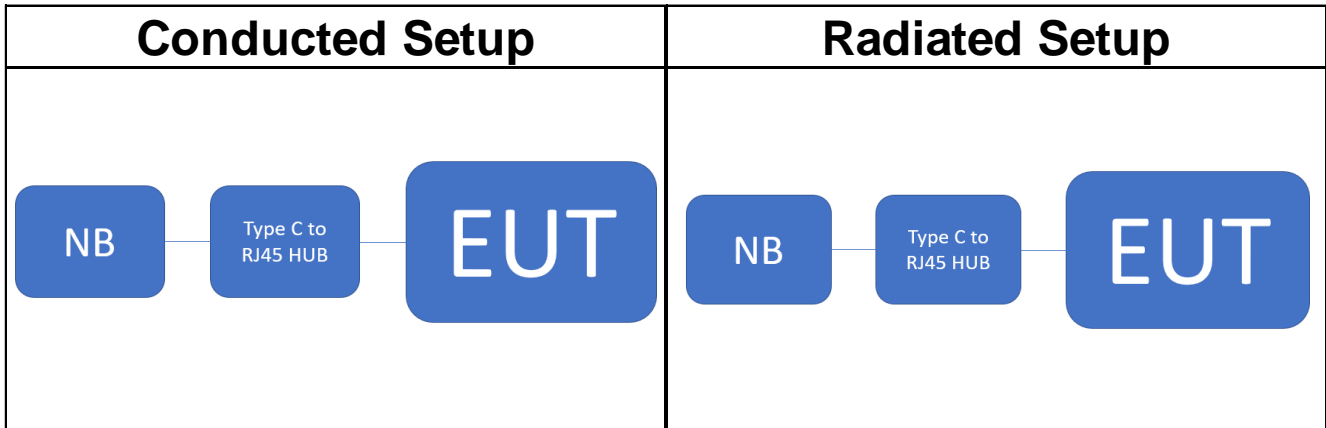
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LAN Cable	RONEVER	VPH-02	1500021123	N.C.R	N.C.R
Type C to RJ45	eSENSE	01-RJC188	471023570365	N.C.R	N.C.R
Notebook	Lenovo	L420	S0011721	N/A	N/A

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Type C to RJ45	eSENSE	01-RJC188	471023570365	N.C.R	N.C.R
LAN Cable	RONEVER	VPH-02	1500021123	N.C.R	N.C.R
Notebook	Lenovo	T470	P0001293	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

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

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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
	Ch0	Ch1	Ch2	Ch3	
<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 checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input 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 (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	6	OFDM	1	2TX

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,10,11,12,13	DSSS	1	2TX
802.11g	1 to 11	1,10,11,12,13	OFDM	6	2TX
802.11n (HT20)	1 to 13	1,10,11,12,13	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 11	3,9,10,11	OFDM	MCS8	MIMO

4.4 Antenna Port Conducted Measurement:

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,6,10,11,12,13	DSSS	1	2TX
802.11g	1 to 11	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

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	+/-	2.57	dB	9kHz~30MHz
	+/-	4.85	dB	30MHz - 1000MHz
	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.57	dB	9kHz~30MHz
	+/-	4.37	dB	30MHz - 1000MHz
	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	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

6.1.1 Output Power

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

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

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

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

$g_{j,k} = 10^{G_k/20}$ 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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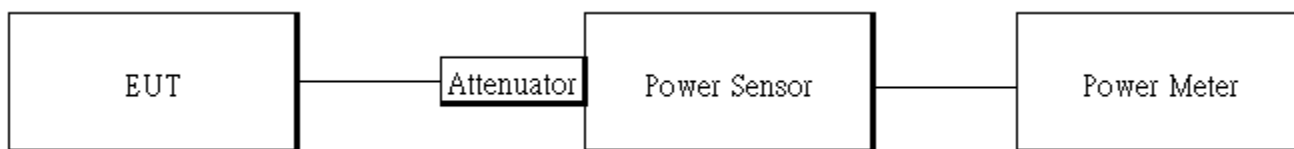
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6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/24/2022
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022
Attenuator	Marvelous	WATT-218FS-10	RF15	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022

6.3 Test Setup

6.3.1 Output Power:



6.4 Measurement Procedure

6.4.1 Output Power

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.
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

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6.5 Measurement Result

6.5.1 Output Power

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	16.5	19.42	19.29	22.37	30.00	PASS
2	2417	1	16.5	19.47	19.33	22.41	30.00	PASS
6	2437	1	15	17.96	17.74	20.86	30.00	PASS
10	2457	1	16.5	19.55	19.41	22.49	30.00	PASS
11	2462	1	16.5	19.51	19.37	22.45	30.00	PASS
12	2467	1	16	18.92	18.76	21.85	30.00	PASS
13	2472	1	15.5	18.44	18.28	21.37	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	16.5	13.33	16.70	18.37	30.00	PASS
2	2417	1	16.5	13.25	16.85	18.45	30.00	PASS
6	2437	1	15	13.37	13.85	16.66	30.00	PASS
10	2457	1	16.5	13.24	16.84	18.44	30.00	PASS
11	2462	1	16.5	13.26	16.38	18.13	30.00	PASS
12	2467	1	16	13.15	16.21	17.98	30.00	PASS
13	2472	1	15.5	13.12	14.95	17.17	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	16	20.15	19.82	23.00	30.00	PASS
2	2417	6	17	20.94	20.76	23.86	30.00	PASS
6	2437	6	17	21.05	20.84	23.96	30.00	PASS
10	2457	6	17	20.89	20.67	23.79	30.00	PASS
11	2462	6	15.5	19.66	19.34	22.51	30.00	PASS
12	2467	6	15	19.35	19.17	22.27	30.00	PASS
13	2472	6	3	8.65	8.51	11.59	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	16	13.22	16.04	17.95	30.00	PASS
2	2417	6	17	13.30	17.18	18.75	30.00	PASS
6	2437	6	17	13.30	17.18	18.75	30.00	PASS
10	2457	6	17	13.33	17.03	18.65	30.00	PASS
11	2462	6	15.5	13.21	15.05	17.32	30.00	PASS
12	2467	6	15	13.23	13.97	16.71	30.00	PASS
13	2472	6	3	2.29	2.76	5.62	30.00	PASS

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802.11n_HT20M 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	15.5	19.84	19.67	22.77	30.00	PASS
2	2417	MCS8	17	20.85	20.71	23.79	30.00	PASS
6	2437	MCS8	17	20.78	20.63	23.72	30.00	PASS
10	2457	MCS8	17	20.80	20.67	23.75	30.00	PASS
11	2462	MCS8	15.5	19.38	19.24	22.32	30.00	PASS
12	2467	MCS8	14	17.75	17.54	20.66	30.00	PASS
13	2472	MCS8	4	9.57	9.41	12.50	30.00	PASS

802.11n_HT20M 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	15.5	13.29	14.92	17.27	30.00	PASS
2	2417	MCS8	17	13.28	17.23	18.78	30.00	PASS
6	2437	MCS8	17	13.35	17.34	18.88	30.00	PASS
10	2457	MCS8	17	13.21	16.94	18.55	30.00	PASS
11	2462	MCS8	15.5	13.35	14.97	17.33	30.00	PASS
12	2467	MCS8	14	12.62	12.43	15.62	30.00	PASS
13	2472	MCS8	4	4.15	3.80	7.07	30.00	PASS

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802.11n_HT40M 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	14.5	19.65	19.44	22.56	30.00	PASS
4	2427	MCS8	16.5	20.55	20.32	23.45	30.00	PASS
6	2437	MCS8	16.5	20.59	20.35	23.48	30.00	PASS
8	2447	MCS8	15	19.62	19.40	22.52	30.00	PASS
9	2452	MCS8	14	18.55	18.31	21.44	30.00	PASS
10	2457	MCS8	9	13.92	13.78	16.86	30.00	PASS
11	2462	MCS8	0	6.68	6.53	9.62	30.00	PASS

802.11n_HT40M 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	14.5	13.27	14.02	16.75	30.00	PASS
4	2427	MCS8	16.5	13.17	16.42	18.18	30.00	PASS
6	2437	MCS8	16.5	13.32	16.50	18.29	30.00	PASS
8	2447	MCS8	15	13.31	14.16	16.85	30.00	PASS
9	2452	MCS8	14	13.35	13.39	16.46	30.00	PASS
10	2457	MCS8	9	7.87	7.73	10.89	30.00	PASS
11	2462	MCS8	0	0.21	-0.02	3.19	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	15.5	19.85	19.64	22.76	30.00	PASS
2	2417	MCS8	17	20.29	19.96	23.14	30.00	PASS
6	2437	MCS8	17	20.34	20.05	23.21	30.00	PASS
10	2457	MCS8	17	21.80	21.54	24.68	30.00	PASS
11	2462	MCS8	15.5	19.95	19.78	22.88	30.00	PASS
12	2467	MCS8	13	17.82	17.66	20.75	30.00	PASS
13	2472	MCS8	4.5	9.93	9.84	12.90	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	15.5	13.26	14.57	17.05	30.00	PASS
2	2417	MCS8	17	13.29	17.31	18.84	30.00	PASS
6	2437	MCS8	17	13.17	17.29	18.79	30.00	PASS
10	2457	MCS8	17	13.20	16.91	18.53	30.00	PASS
11	2462	MCS8	15.5	13.13	14.74	17.10	30.00	PASS
12	2467	MCS8	13	12.37	12.21	15.38	30.00	PASS
13	2472	MCS8	4.5	4.02	3.67	6.94	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	14	19.22	19.02	22.13	30.00	PASS
4	2427	MCS8	16	20.62	20.40	23.52	30.00	PASS
6	2437	MCS8	16	20.75	20.63	23.70	30.00	PASS
8	2447	MCS8	14	19.33	19.17	22.26	30.00	PASS
9	2452	MCS8	13.5	19.46	19.28	22.38	30.00	PASS
10	2457	MCS8	8.5	13.92	13.68	16.81	30.00	PASS
11	2462	MCS8	0	5.57	5.32	8.46	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	14	13.35	13.78	16.81	30.00	PASS
4	2427	MCS8	16	13.36	16.11	18.19	30.00	PASS
6	2437	MCS8	16	13.25	16.24	18.24	30.00	PASS
8	2447	MCS8	14	13.36	13.86	16.86	30.00	PASS
9	2452	MCS8	13.5	13.09	13.15	16.36	30.00	PASS
10	2457	MCS8	8.5	7.69	7.46	10.82	30.00	PASS
11	2462	MCS8	0	-0.79	-0.98	2.36	30.00	PASS

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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	13.33	16.70	18.37	4.59	22.96	36	PASS
2	2417	1	13.25	16.85	18.45	4.59	23.04	36	PASS
6	2437	1	13.37	13.85	16.66	4.59	21.25	36	PASS
10	2457	1	13.24	16.84	18.44	4.59	23.03	36	PASS
11	2462	1	13.26	16.38	18.13	4.59	22.72	36	PASS
12	2467	1	13.15	16.21	17.98	4.59	22.57	36	PASS
13	2472	1	13.12	14.95	17.17	4.59	21.76	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	13.22	16.04	17.95	4.59	22.54	36	PASS
2	2417	6	13.30	17.18	18.75	4.59	23.34	36	PASS
6	2437	6	13.30	17.18	18.75	4.59	23.34	36	PASS
10	2457	6	13.33	17.03	18.65	4.59	23.24	36	PASS
11	2462	6	13.21	15.05	17.32	4.59	21.91	36	PASS
12	2467	6	13.23	13.97	16.71	4.59	21.30	36	PASS
13	2472	6	2.29	2.76	5.62	4.59	10.21	36	PASS

802.11n_HT20M 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	13.29	14.92	17.27	4.59	21.86	36	PASS
2	2417	MCS8	13.28	17.23	18.78	4.59	23.37	36	PASS
6	2437	MCS8	13.35	17.34	18.88	4.59	23.47	36	PASS
10	2457	MCS8	13.21	16.94	18.55	4.59	23.14	36	PASS
11	2462	MCS8	13.35	14.97	17.33	4.59	21.92	36	PASS
12	2467	MCS8	12.62	12.43	15.62	4.59	20.21	36	PASS
13	2472	MCS8	4.15	3.80	7.07	4.59	11.66	36	PASS

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802.11n_HT40M 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	13.27	14.02	16.75	4.59	21.34	36	PASS
4	2427	MCS8	13.17	16.42	18.18	4.59	22.77	36	PASS
6	2437	MCS8	13.32	16.50	18.29	4.59	22.88	36	PASS
8	2447	MCS8	13.31	14.16	16.85	4.59	21.44	36	PASS
9	2452	MCS8	13.35	13.39	16.46	4.59	21.05	36	PASS
10	2457	MCS8	7.87	7.73	10.89	4.59	15.48	36	PASS
11	2462	MCS8	0.21	-0.02	3.19	4.59	7.78	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	14.57	17.05	4.59	21.64	36	PASS
2	2417	MCS8	13.29	17.31	18.84	4.59	23.43	36	PASS
6	2437	MCS8	13.17	17.29	18.79	4.59	23.38	36	PASS
10	2457	MCS8	13.20	16.91	18.53	4.59	23.12	36	PASS
11	2462	MCS8	13.13	14.74	17.10	4.59	21.69	36	PASS
12	2467	MCS8	12.37	12.21	15.38	4.59	19.97	36	PASS
13	2472	MCS8	4.02	3.67	6.94	4.59	11.53	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	13.35	13.78	16.81	4.59	21.40	36	PASS
4	2427	MCS8	13.36	16.11	18.19	4.59	22.78	36	PASS
6	2437	MCS8	13.25	16.24	18.24	4.59	22.83	36	PASS
8	2447	MCS8	13.36	13.86	16.86	4.59	21.45	36	PASS
9	2452	MCS8	13.09	13.15	16.36	4.59	20.95	36	PASS
10	2457	MCS8	7.69	7.46	10.82	4.59	15.41	36	PASS
11	2462	MCS8	-0.79	-0.98	2.36	4.59	6.95	36	PASS

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7 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 Standard Applicable

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

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

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

Note:

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

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

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7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF17	11/18/2021	11/17/2022
Lowpass Filter	Woken	EWT-56-0019	RF173	11/18/2021	11/17/2022
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/18/2021	11/17/2022
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/18/2021	11/17/2022

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

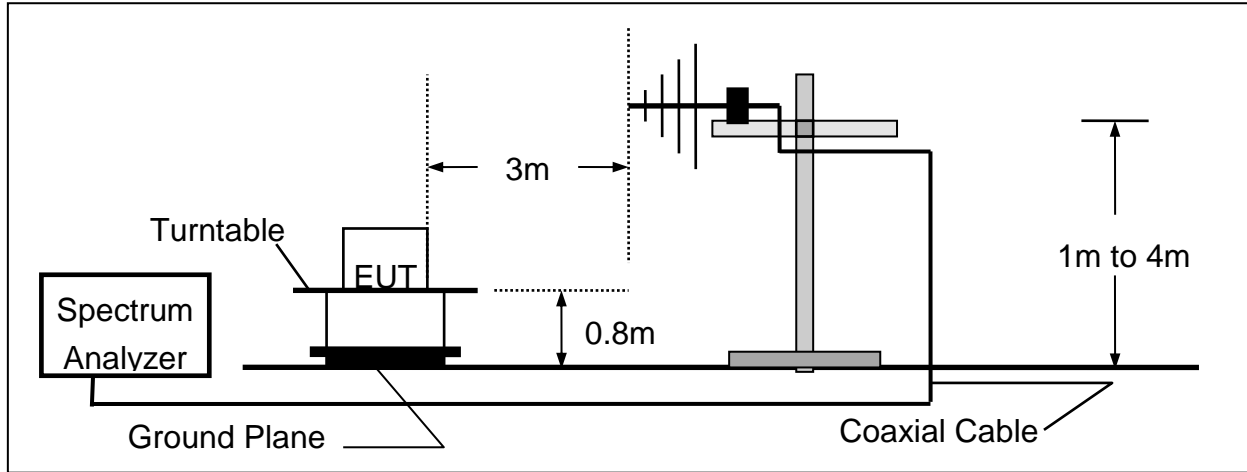
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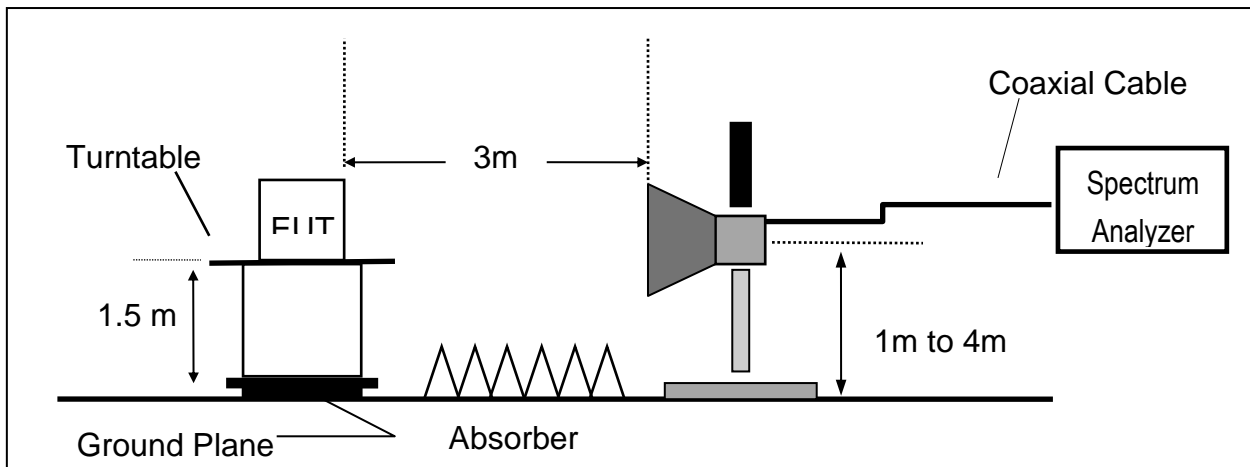
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7.3 Test Setup

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



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



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7.4 Measurement Procedure

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

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7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

Factor(dB) = Antenna Factor(dBμV/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*

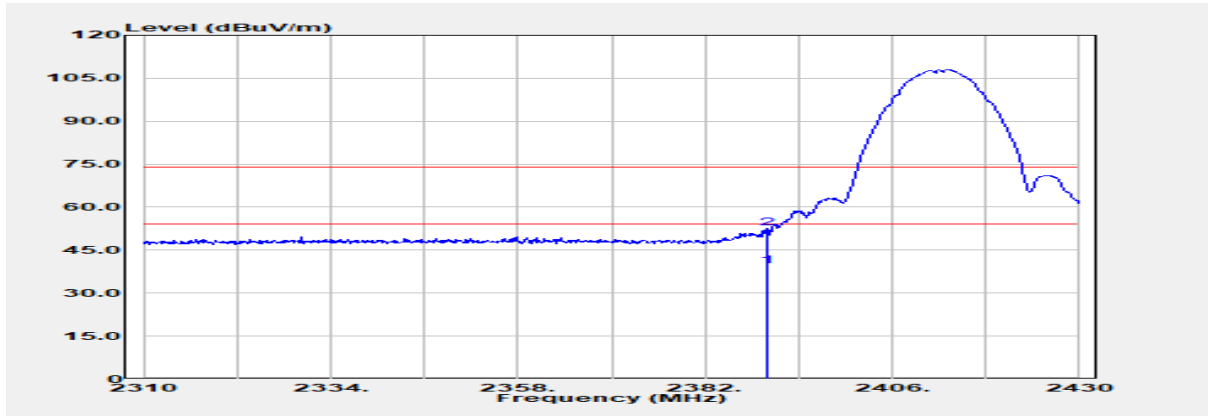
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7.7.1 Radiated Band Edge Measurement Result

Report Number	:E2/2022/30028	Test Site	:SAC D
Operation Mode	:802.11b	Test Date	:2022-03-23
Test Frequency	:2412 MHz	Temp./Humi.	:19.8/61
Test Mode	:BE CH LOW	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Andy Wang



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	45.12	-5.69	39.43	54.00	-14.57
2390.000	Peak	58.24	-5.69	52.55	74.00	-21.45

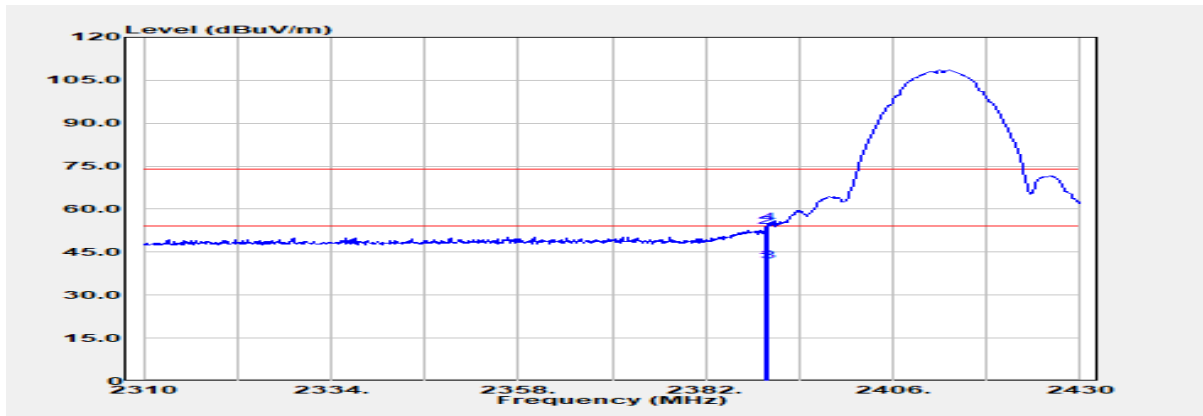
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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
2389.800	Average	47.08	-5.69	41.39	54.00	-12.61
2389.800	Peak	59.52	-5.69	53.83	74.00	-20.17
2390.000	Average	47.39	-5.69	41.70	54.00	-12.30
2390.000	Peak	60.86	-5.69	55.17	74.00	-18.83

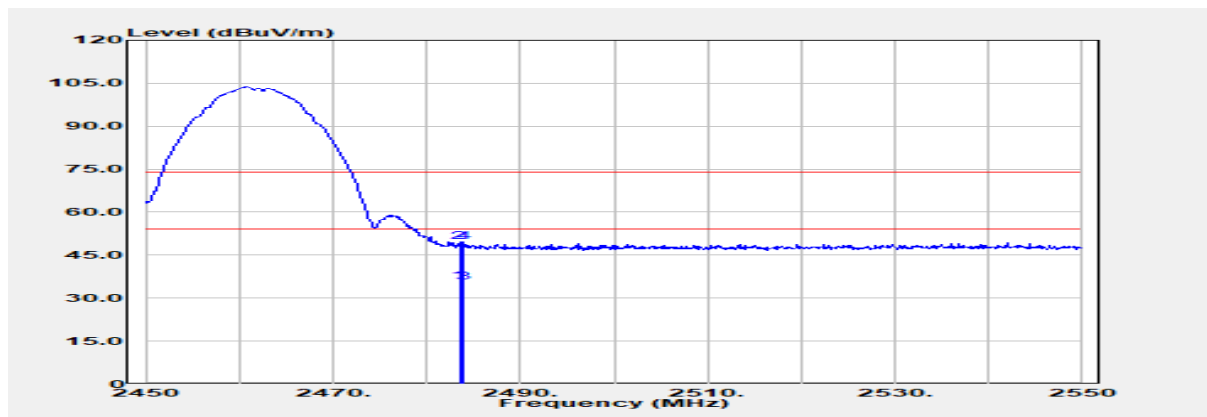
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	41.64	-5.94	35.70	54.00	-18.30
2483.500	Peak	55.43	-5.94	49.49	74.00	-24.51
2484.000	Average	41.51	-5.94	35.57	54.00	-18.43
2484.000	Peak	55.56	-5.94	49.61	74.00	-24.39

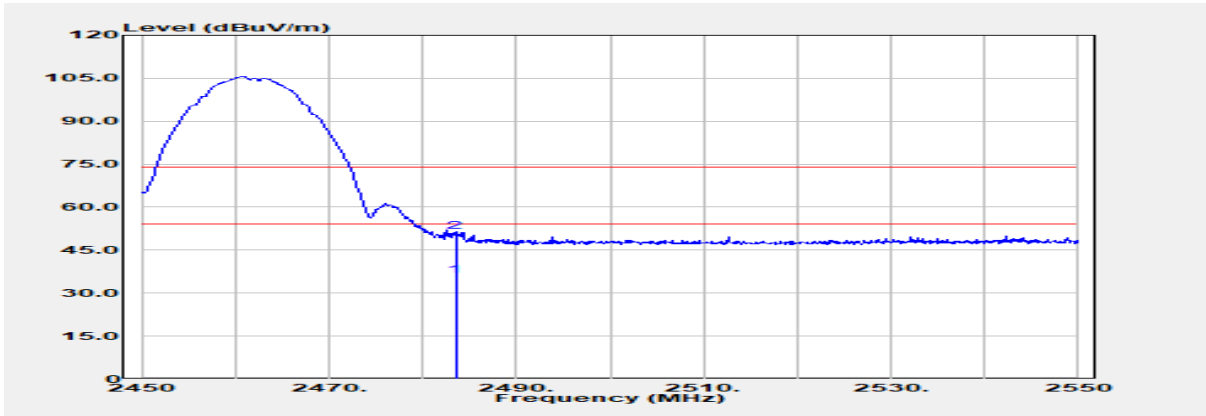
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	42.08	-5.94	36.14	54.00	-17.86
2483.500	Peak	57.24	-5.94	51.30	74.00	-22.70

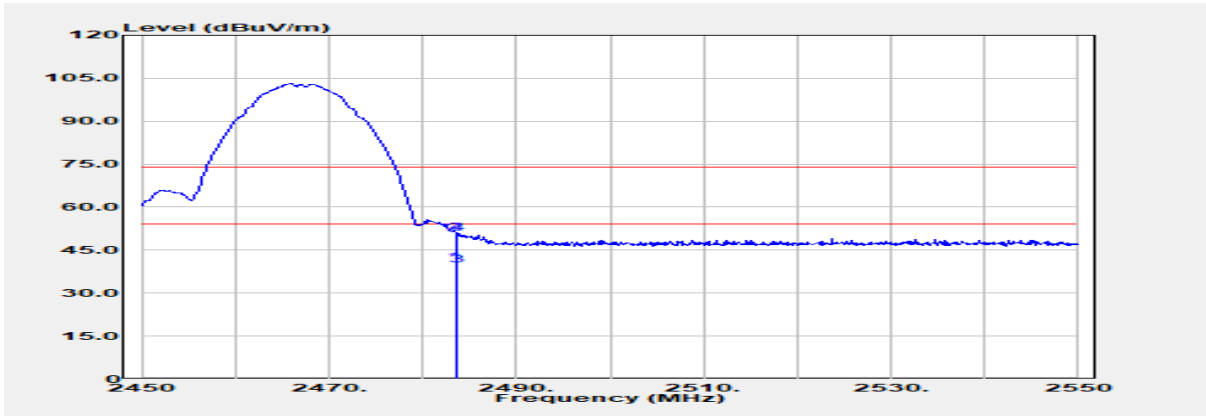
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	46.55	-5.94	40.61	54.00	-13.39
2483.500	Peak	56.70	-5.94	50.76	74.00	-23.24
2483.700	Average	45.65	-5.94	39.71	54.00	-14.29
2483.700	Peak	56.89	-5.94	50.95	74.00	-23.05

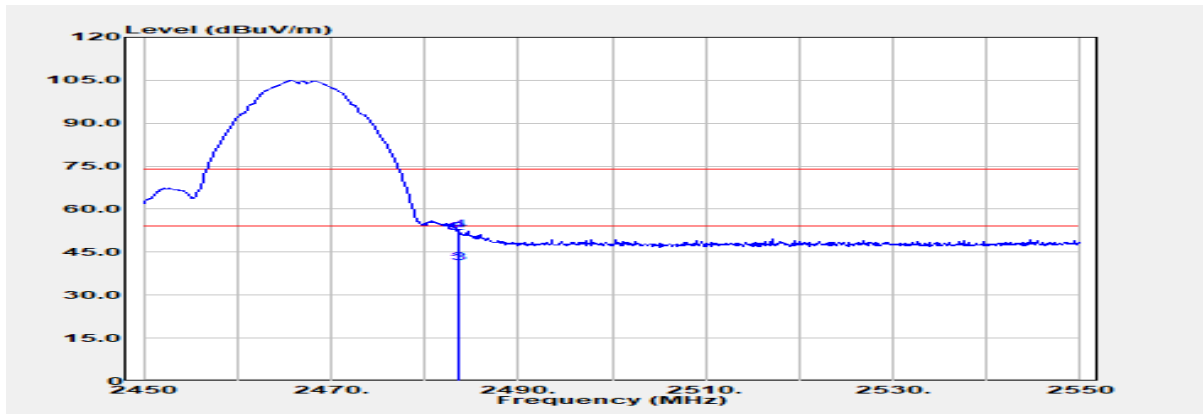
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	46.98	-5.94	41.04	54.00	-12.96
2483.500	Peak	57.73	-5.94	51.79	74.00	-22.21
2483.700	Average	47.19	-5.94	41.25	54.00	-12.75
2483.700	Peak	58.44	-5.94	52.50	74.00	-21.50

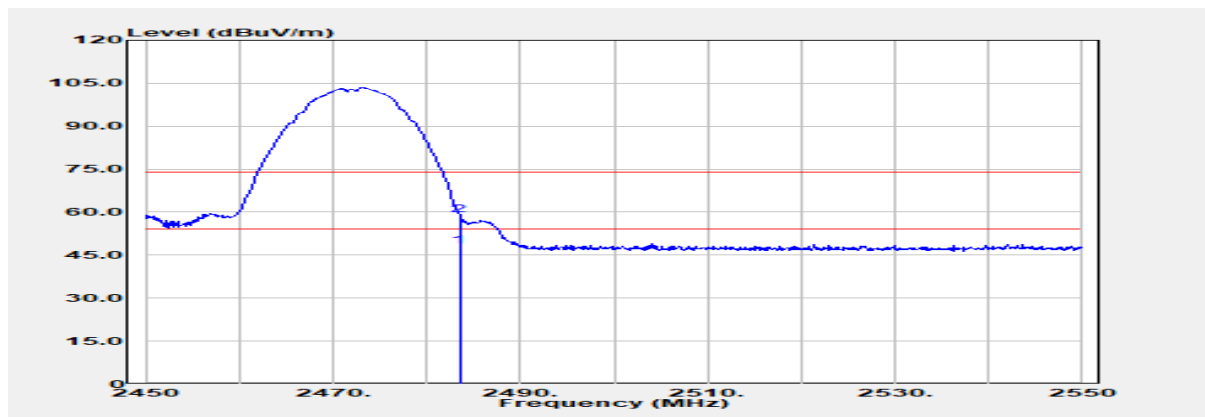
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	54.02	-5.94	48.08	54.00	-5.92
2483.500	Peak	64.99	-5.94	59.05	74.00	-14.95

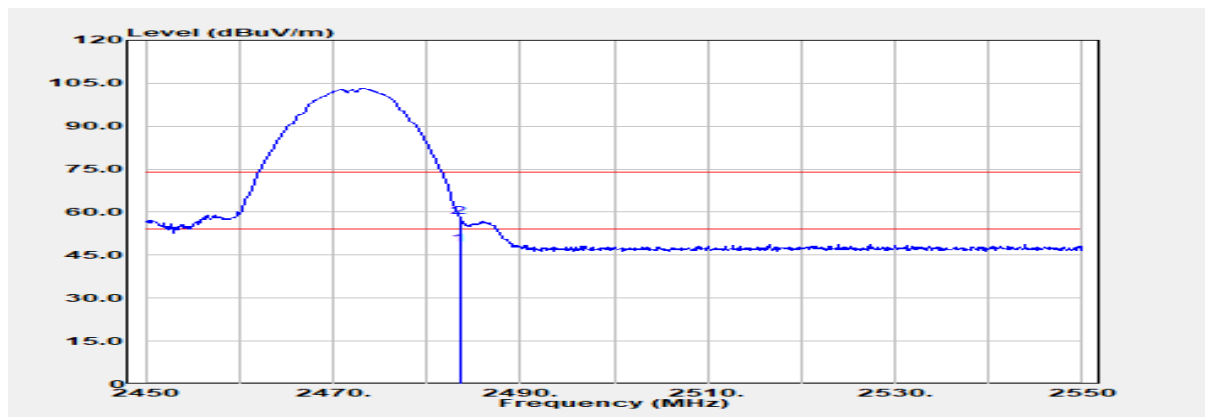
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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
2483.500	Average	54.55	-5.94	48.61	54.00	-5.39
2483.500	Peak	64.35	-5.94	58.41	74.00	-15.59

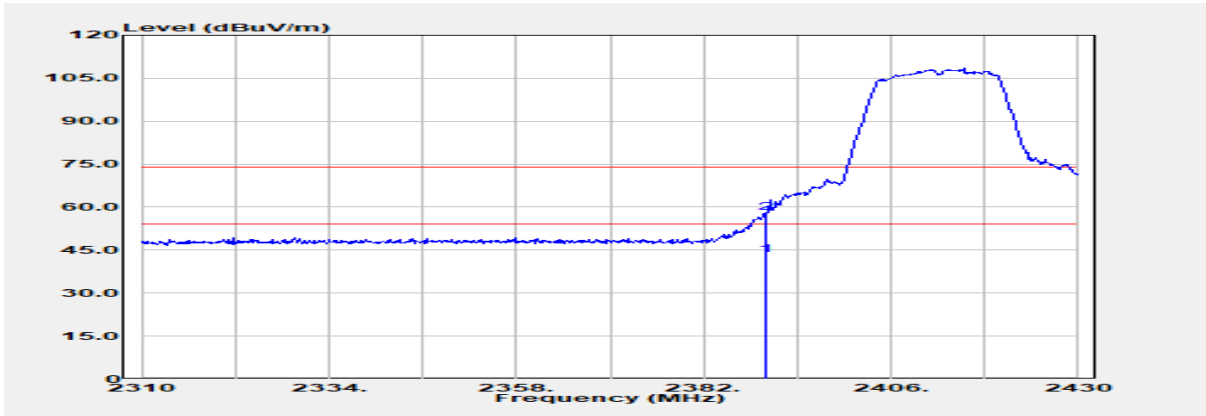
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	48.98	-5.69	43.29	54.00	-10.71
2390.000	Peak	63.79	-5.69	58.10	74.00	-15.90

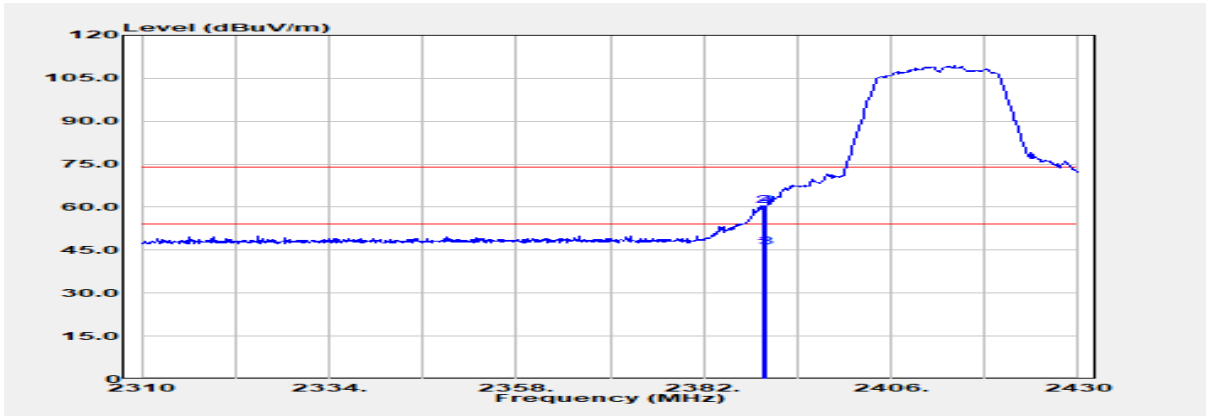
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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
2389.800	Average	51.45	-5.69	45.76	54.00	-8.24
2389.800	Peak	66.23	-5.69	60.54	74.00	-13.46
2390.000	Average	51.64	-5.69	45.95	54.00	-8.05
2390.000	Peak	66.17	-5.69	60.48	74.00	-13.52

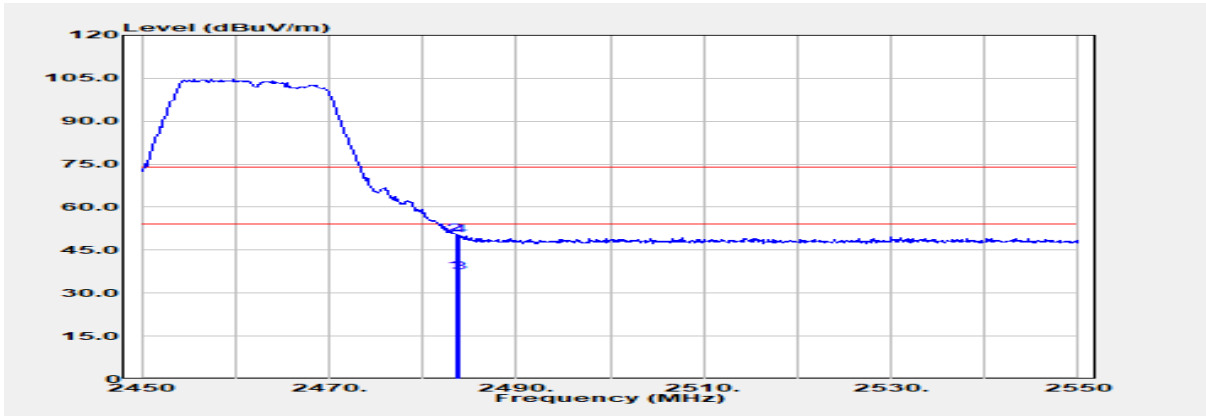
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	43.54	-5.94	37.60	54.00	-16.40
2483.500	Peak	56.47	-5.94	50.53	74.00	-23.47
2483.800	Average	43.09	-5.94	37.15	54.00	-16.85
2483.800	Peak	56.29	-5.94	50.35	74.00	-23.65

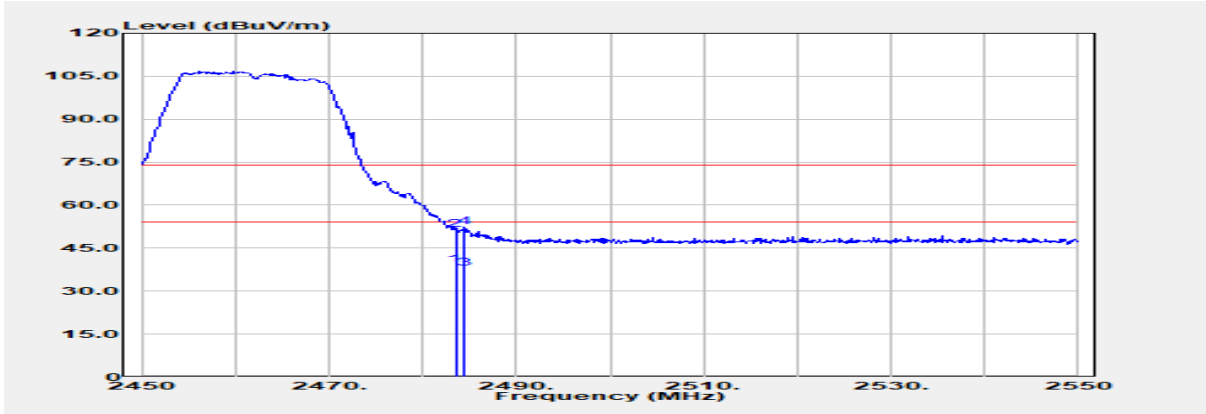
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Report Number :E2/2022/30028
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2022-03-23
Temp./Humi. :19.8/61
Antenna Pol. :Horizontal
Engineer :Andy Wang



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	44.98	-5.94	39.04	54.00	-14.96
2483.500	Peak	57.51	-5.94	51.57	74.00	-22.43
2484.400	Average	43.96	-5.94	38.02	54.00	-15.98
2484.400	Peak	58.35	-5.94	52.41	74.00	-21.59

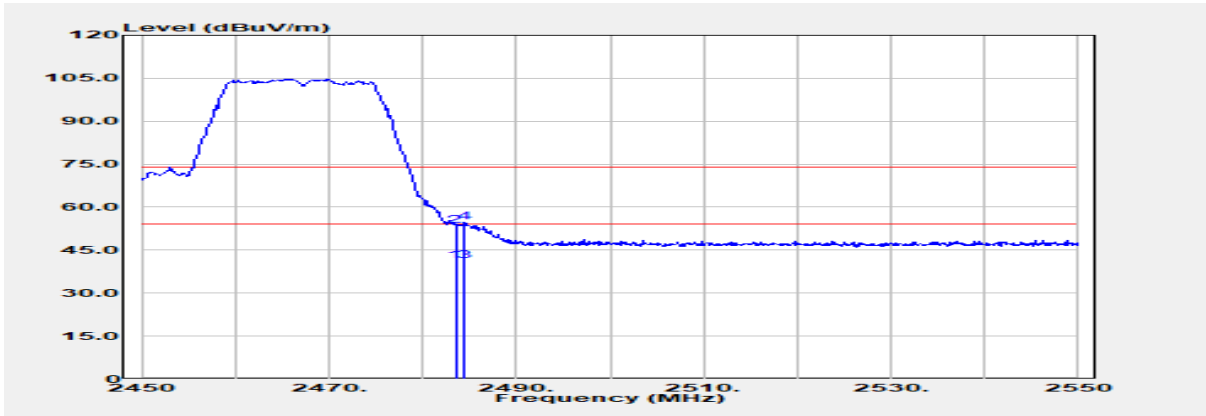
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
2483.500	Average	47.27	-5.94	41.33	54.00	-12.67
2483.500	Peak	59.37	-5.94	53.43	74.00	-20.57
2484.500	Average	47.03	-5.94	41.09	54.00	-12.91
2484.500	Peak	60.67	-5.94	54.73	74.00	-19.27

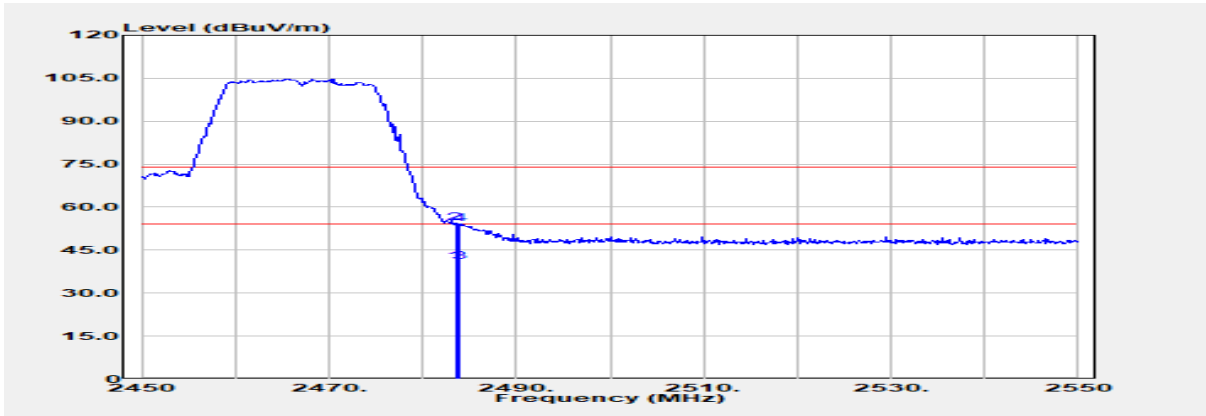
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	46.82	-5.94	40.88	54.00	-13.12
2483.500	Peak	60.43	-5.94	54.49	74.00	-19.51
2483.800	Average	46.73	-5.94	40.79	54.00	-13.21
2483.800	Peak	60.21	-5.94	54.27	74.00	-19.73

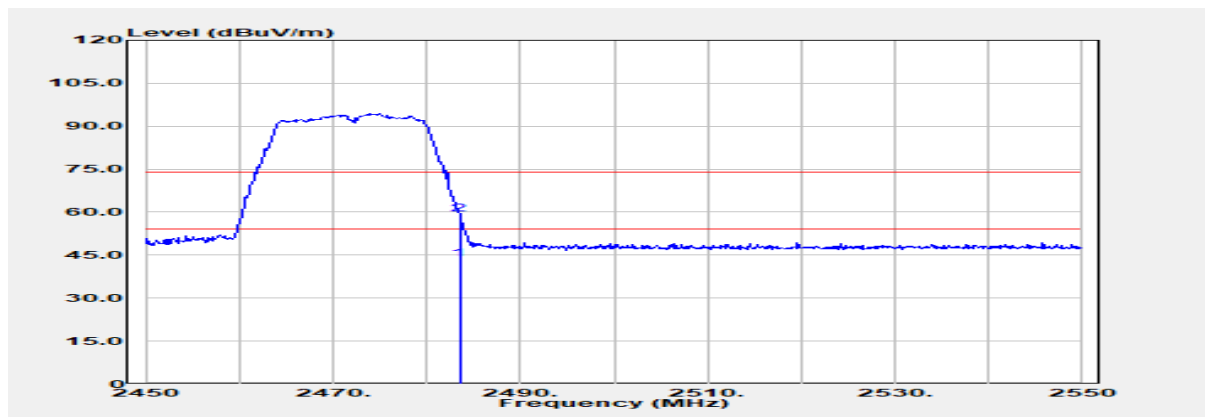
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	49.65	-5.94	43.71	54.00	-10.29
2483.500	Peak	65.04	-5.94	59.10	74.00	-14.90

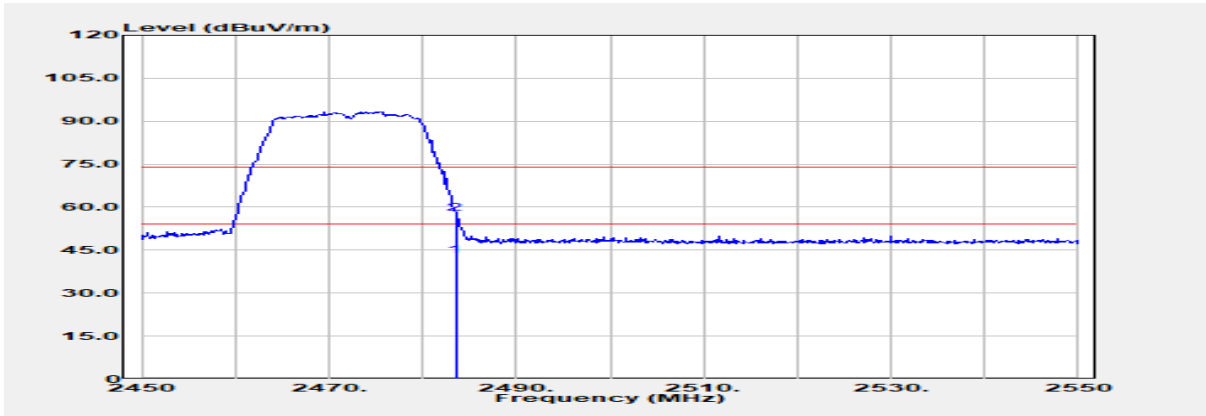
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Report Number :E2/2022/30028
 Operation Mode :802.11g
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	48.99	-5.94	43.05	54.00	-10.95
2483.500	Peak	63.69	-5.94	57.75	74.00	-16.25

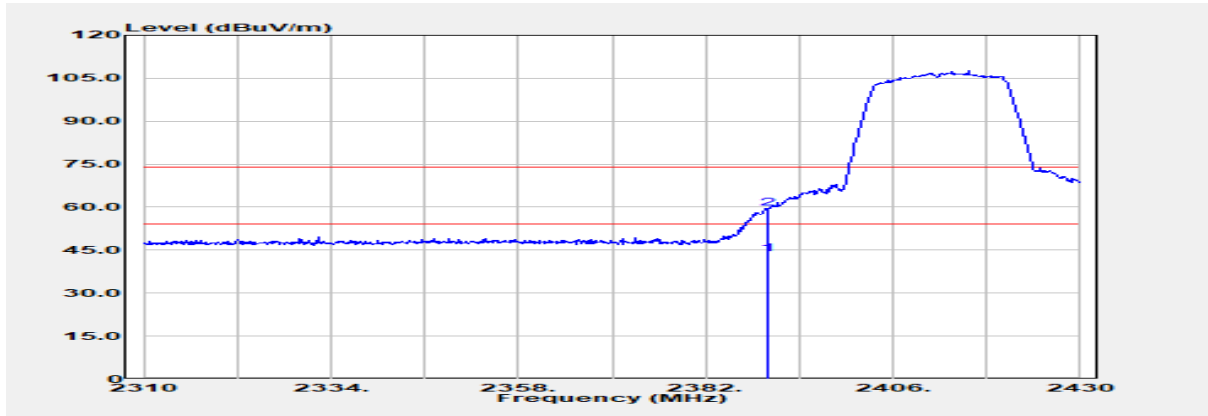
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Report Number :E2/2022/30028
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	49.20	-5.69	43.51	54.00	-10.49
2390.000	Peak	65.12	-5.69	59.43	74.00	-14.57

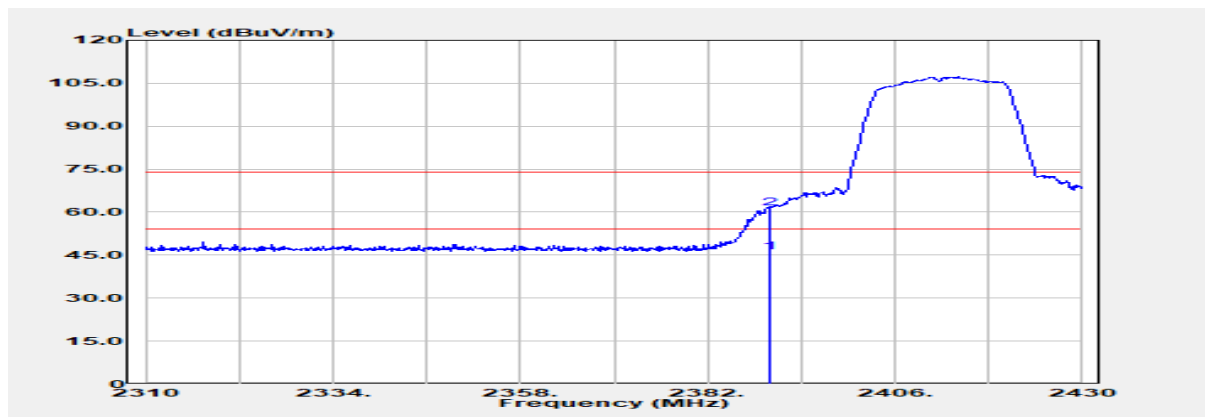
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Report Number :E2/2022/30028
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	51.77	-5.69	46.08	54.00	-7.92
2390.000	Peak	67.08	-5.69	61.39	74.00	-12.61

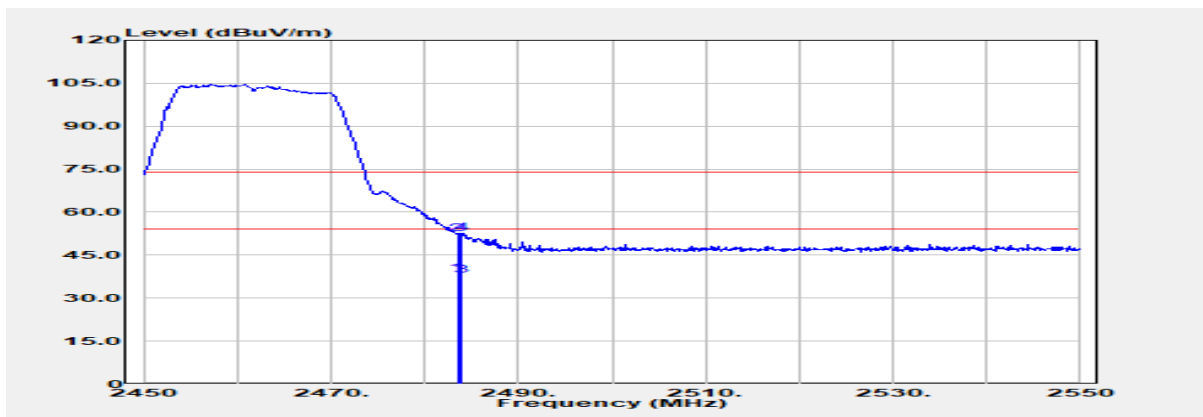
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Report Number :E2/2022/30028
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	44.31	-5.94	38.37	54.00	-15.63
2483.500	Peak	58.40	-5.94	52.46	74.00	-21.54
2483.800	Average	43.81	-5.94	37.87	54.00	-16.13
2483.800	Peak	58.71	-5.94	52.77	74.00	-21.23

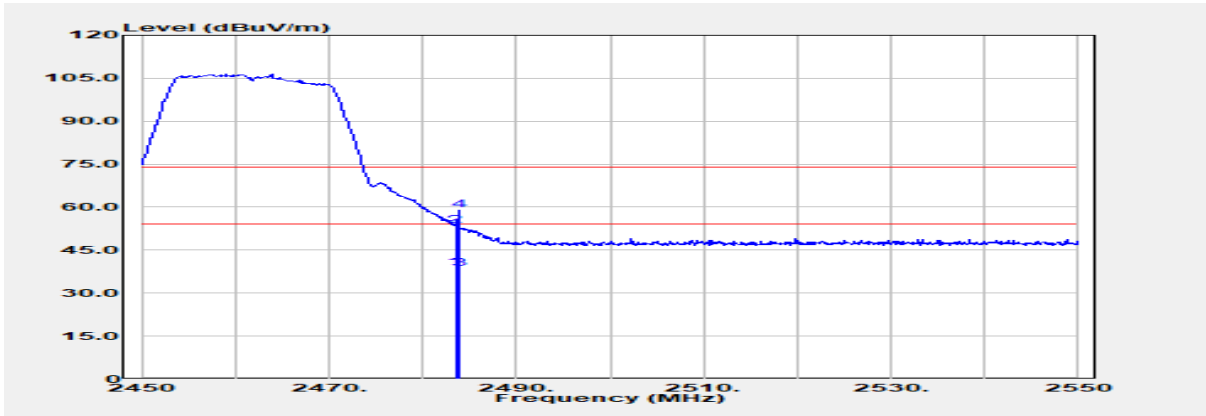
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Report Number :E2/2022/30028
Operation Mode :802.11n20
Test Frequency :2462 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2022-03-23
Temp./Humi. :19.8/61
Antenna Pol. :Horizontal
Engineer :Andy Wang



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	44.84	-5.94	38.90	54.00	-15.10
2483.500	Peak	59.48	-5.94	53.54	74.00	-20.46
2483.800	Average	44.52	-5.94	38.58	54.00	-15.42
2483.800	Peak	65.01	-5.94	59.07	74.00	-14.93

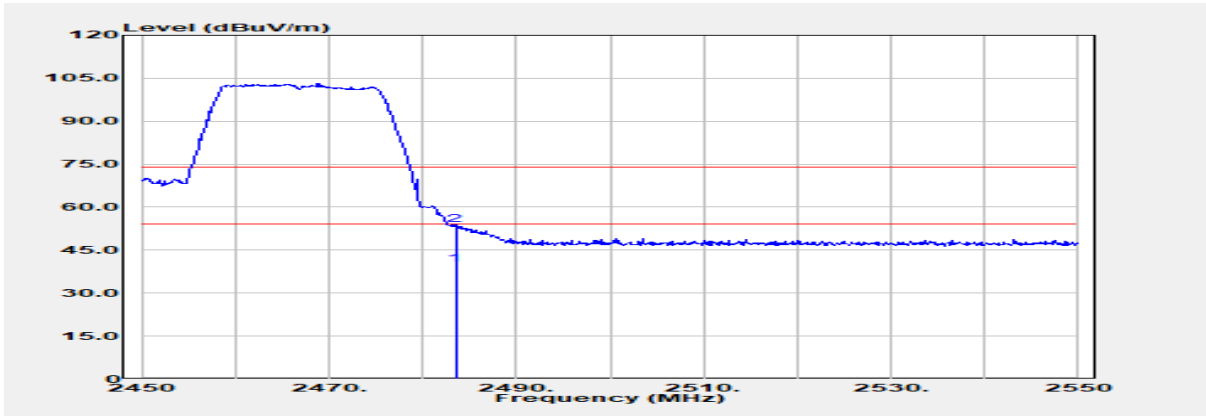
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Report Number :E2/2022/30028
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	45.98	-5.94	40.04	54.00	-13.96
2483.500	Peak	59.78	-5.94	53.84	74.00	-20.16

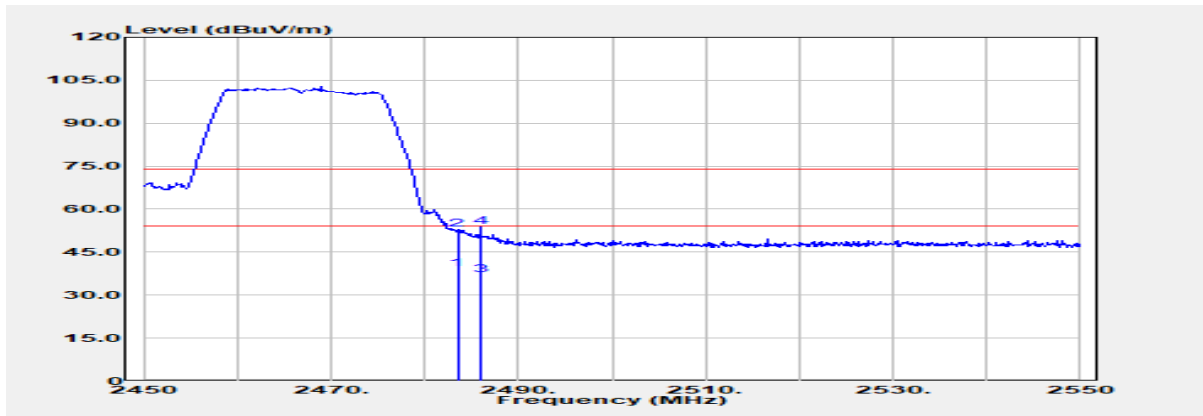
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Report Number :E2/2022/30028
 Operation Mode :802.11n20
 Test Frequency :2467 MHz
 Test Mode :BE CH 12
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	44.98	-5.94	39.04	54.00	-14.96
2483.500	Peak	58.73	-5.94	52.79	74.00	-21.21
2486.000	Average	42.93	-5.95	36.98	54.00	-17.02
2486.000	Peak	59.74	-5.95	53.79	74.00	-20.21

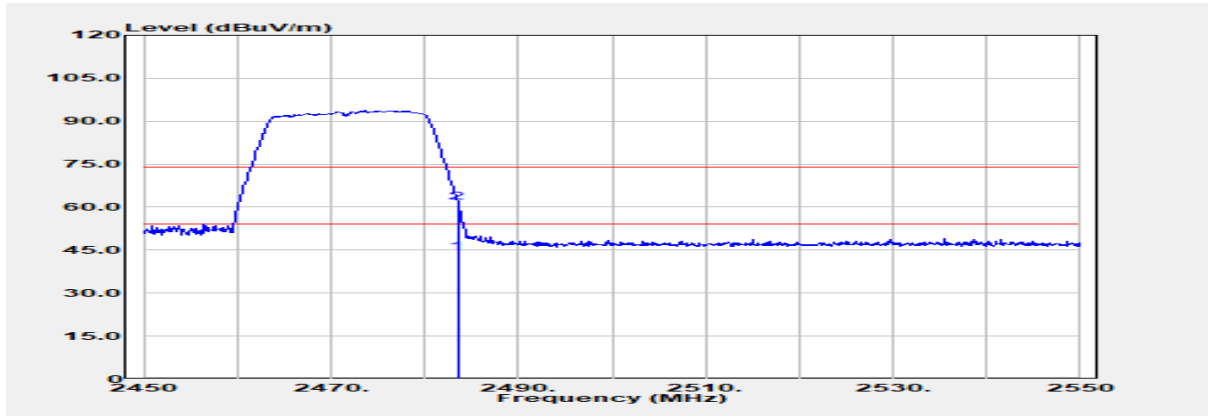
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Report Number :E2/2022/30028
Operation Mode :802.11n20
Test Frequency :2472 MHz
Test Mode :BE CH 13
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2022-03-23
Temp./Humi. :19.8/61
Antenna Pol. :Vertical
Engineer :Andy Wang



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	50.30	-5.94	44.36	54.00	-9.64
2483.500	Peak	67.62	-5.94	61.68	74.00	-12.32

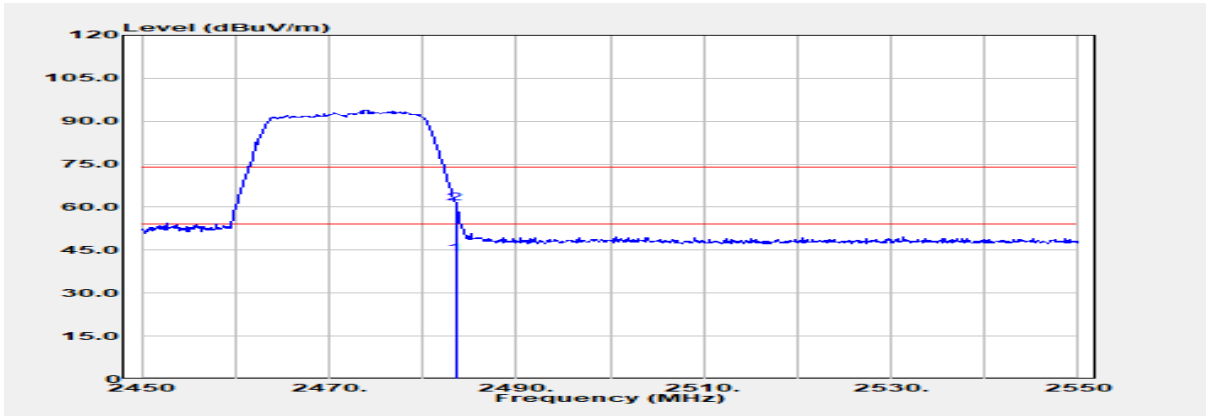
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Report Number :E2/2022/30028
 Operation Mode :802.11n20
 Test Frequency :2472 MHz
 Test Mode :BE CH 13
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	49.53	-5.94	43.59	54.00	-10.41
2483.500	Peak	67.43	-5.94	61.49	74.00	-12.51

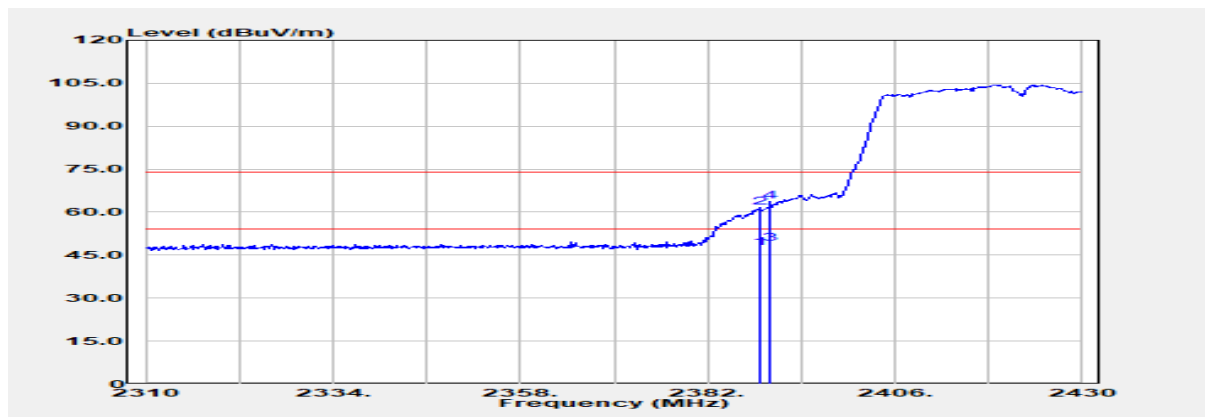
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
2388.600	Average	53.29	-5.69	47.60	54.00	-6.40
2388.600	Peak	67.38	-5.69	61.70	74.00	-12.30
2390.000	Average	54.86	-5.69	49.17	54.00	-4.83
2390.000	Peak	69.31	-5.69	63.62	74.00	-10.38

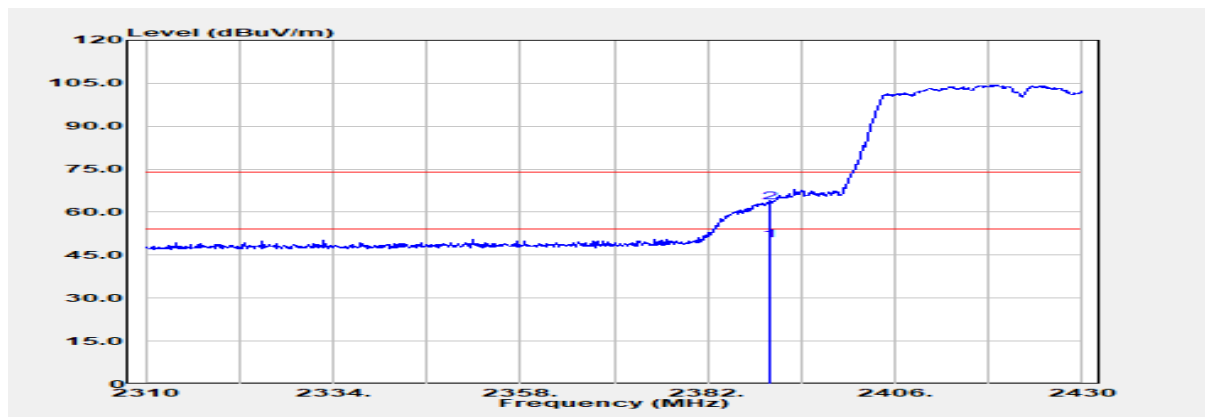
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	55.96	-5.69	50.27	54.00	-3.73
2390.000	Peak	69.15	-5.69	63.46	74.00	-10.54

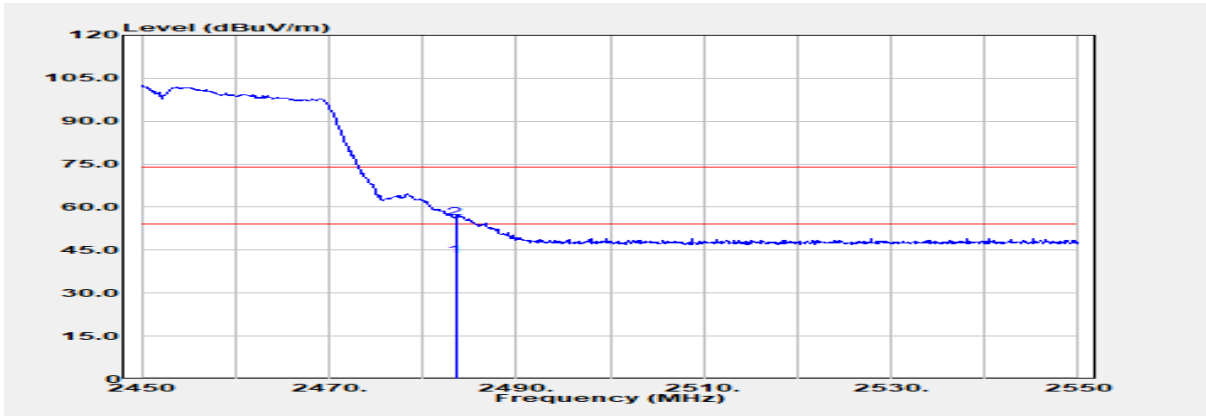
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	48.81	-5.94	42.87	54.00	-11.13
2483.500	Peak	62.28	-5.94	56.34	74.00	-17.66

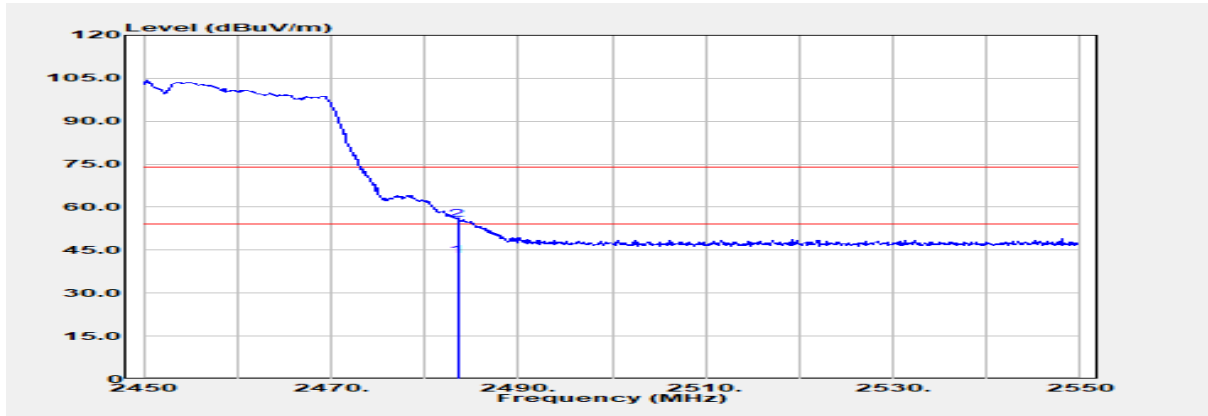
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Report Number :E2/2022/30028
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :BE CH HIGH
EUT Pol :E2 Plane

Test Site :SAC D
Test Date :2022-03-23
Temp./Humi. :19.8/61
Antenna Pol. :Horizontal
Engineer :Andy Wang



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	48.82	-5.94	42.88	54.00	-11.12
2483.500	Peak	61.48	-5.94	55.54	74.00	-18.46

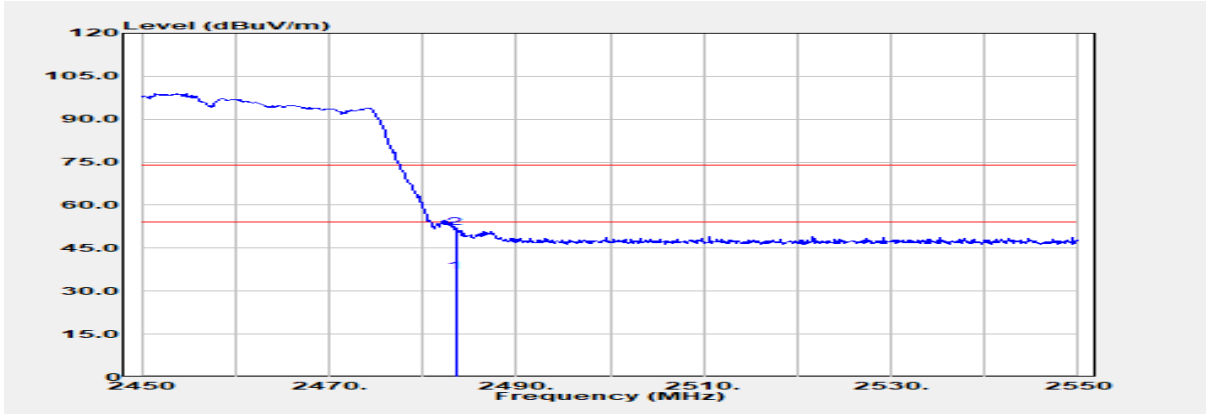
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	42.69	-5.94	36.75	54.00	-17.25
2483.500	Peak	57.83	-5.94	51.89	74.00	-22.11

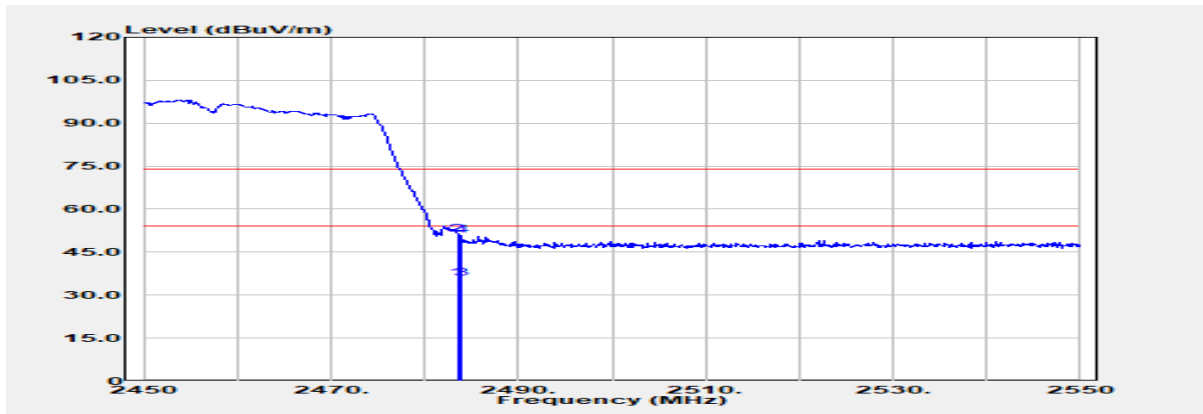
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	41.88	-5.94	35.94	54.00	-18.06
2483.500	Peak	56.95	-5.94	51.01	74.00	-22.99
2483.800	Average	41.72	-5.94	35.78	54.00	-18.22
2483.800	Peak	56.83	-5.94	50.89	74.00	-23.11

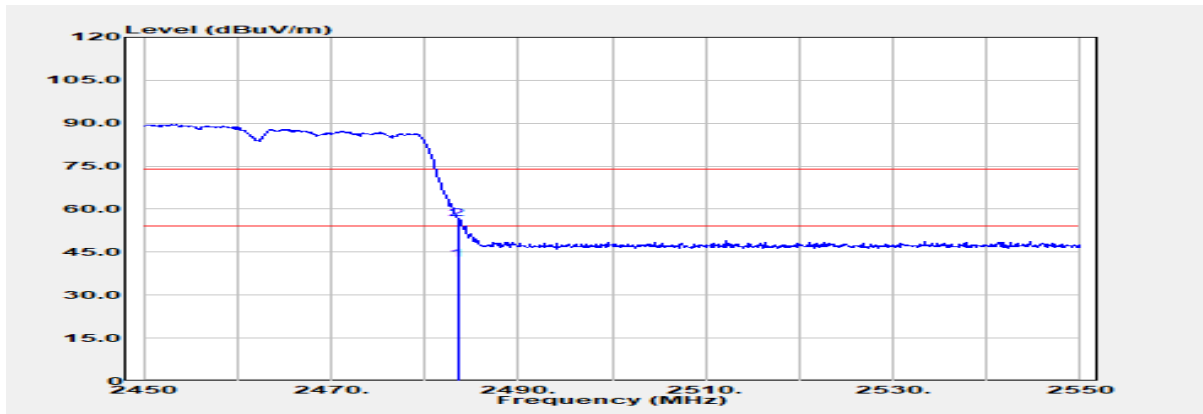
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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	48.41	-5.94	42.47	54.00	-11.53
2483.500	Peak	62.58	-5.94	56.64	74.00	-17.36

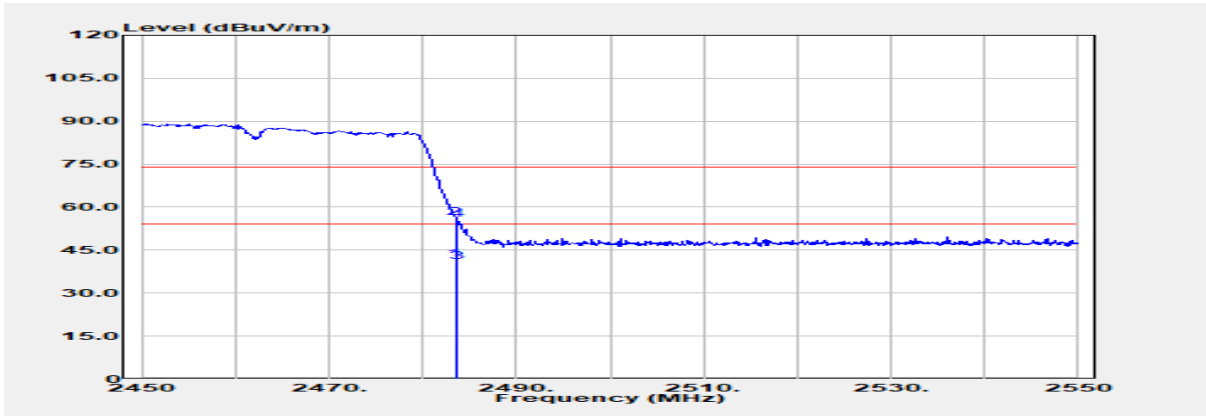
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Report Number :E2/2022/30028
 Operation Mode :802.11n40
 Test Frequency :2462 MHz
 Test Mode :BE CH 11
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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	47.73	-5.94	41.79	54.00	-12.21
2483.500	Peak	62.21	-5.94	56.27	74.00	-17.73
2483.700	Average	46.79	-5.94	40.85	54.00	-13.15
2483.700	Peak	61.45	-5.94	55.51	74.00	-18.49

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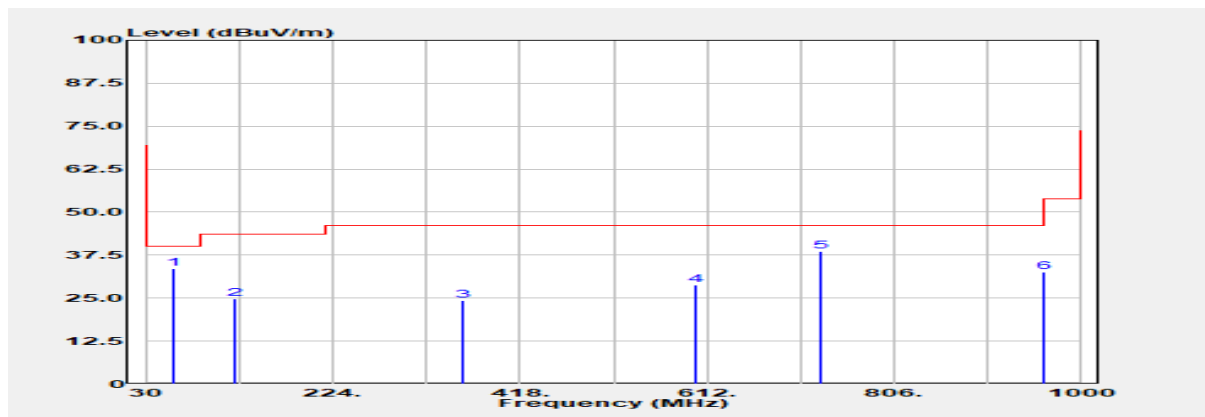
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7.7.2 Spurious Emission:

Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-28
 Temp./Humi. : 20.5/67
 Antenna Pol. :Vertical
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
60.070	Peak	51.51	-17.87	33.65	40.00	-6.35
122.150	Peak	44.19	-19.26	24.93	43.50	-18.57
359.800	Peak	38.77	-14.38	24.40	46.00	-21.60
600.360	Peak	38.39	-9.63	28.77	46.00	-17.23
730.340	Peak	46.61	-7.93	38.68	46.00	-7.32
960.230	Peak	36.81	-4.23	32.57	54.00	-21.43

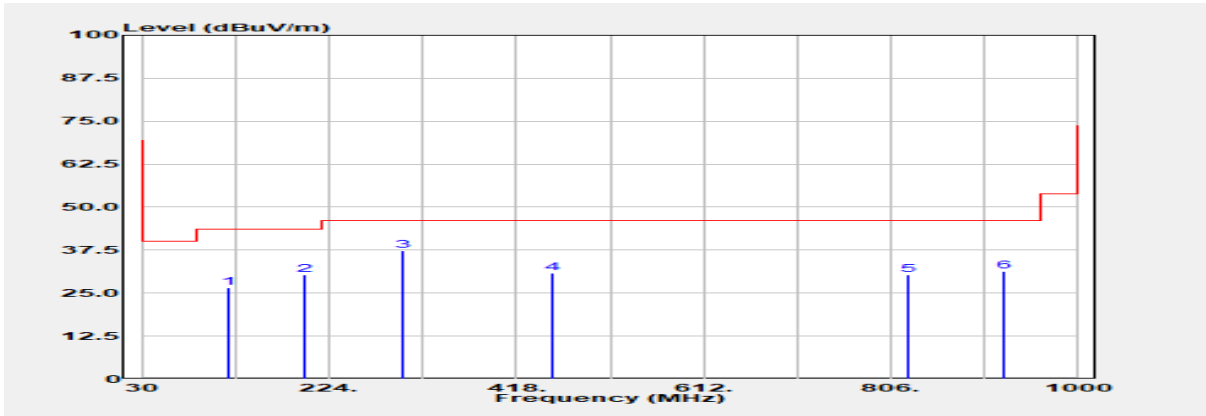
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-28
 Temp./Humi. : 20.5/67
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
120.210	Peak	45.97	-19.38	26.59	43.50	-16.91
199.750	Peak	50.18	-19.73	30.45	43.50	-13.05
299.660	Peak	53.41	-16.14	37.26	46.00	-8.74
455.830	Peak	42.57	-11.63	30.94	46.00	-15.06
823.460	Peak	36.54	-6.33	30.21	46.00	-15.79
923.370	Peak	36.17	-4.84	31.33	46.00	-14.67

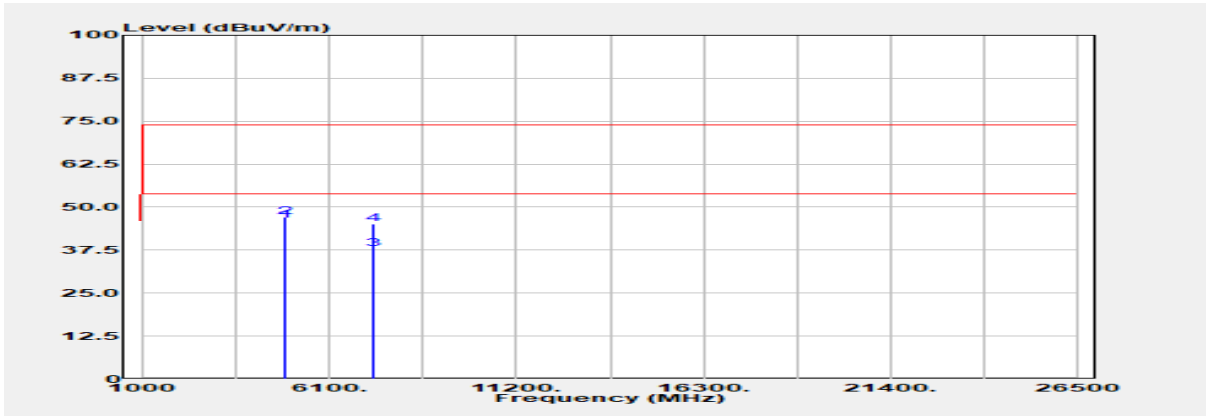
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Vertical
 Engineer :Andy Wang



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
4874.000	Average	46.28	-0.26	46.02	54.00	-7.98
4874.000	Peak	47.31	-0.26	47.05	74.00	-26.95
7311.000	Average	31.13	6.68	37.81	54.00	-16.19
7311.000	Peak	38.33	6.68	45.01	74.00	-28.99

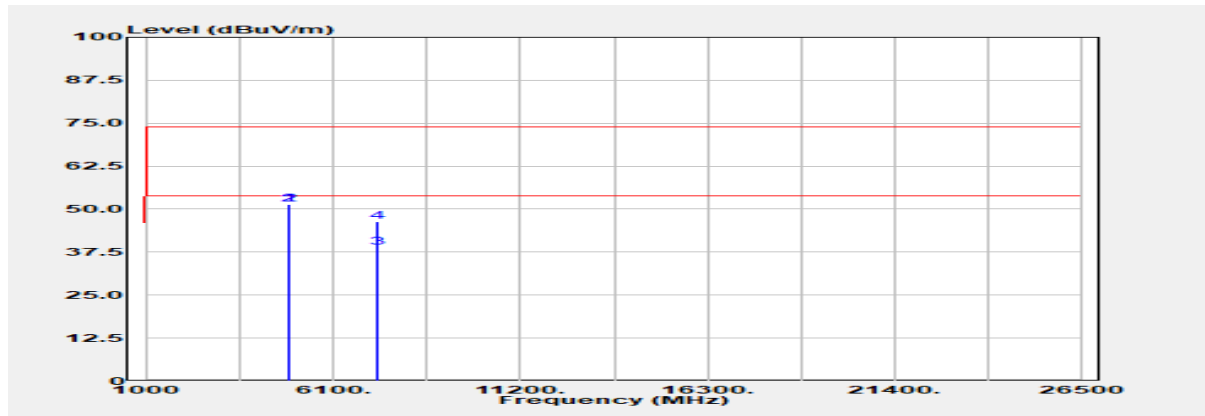
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Report Number :E2/2022/30028
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC D
 Test Date :2022-03-23
 Temp./Humi. :19.8/61
 Antenna Pol. :Horizontal
 Engineer :Andy Wang



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
4874.000	Average	51.67	-0.26	51.41	54.00	-2.59
4874.000	Peak	51.71	-0.26	51.44	74.00	-22.56
7311.000	Average	32.10	6.68	38.78	54.00	-15.22
7311.000	Peak	39.80	6.68	46.48	74.00	-27.52

~ End of Report ~

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