

# 4ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



## CLASS II & IV PC REPORT

**Applicant:** HP INC.  
1501 PAGE MILL ROAD PALO ALTO, CA 94304, USA

**Product Name:** 7c Modular Platform

**Brand Name:** HP

**Model No.:** QSIP7180

**Model Difference:** N/A

**Report Number:** E2/2021/10113

**FCC ID** B94-TNH101QS

**IC:** 466X-TNH101QS

**FCC Rule Part:** §15.247, Cat: DTS

**IC RSS:** RSS-247 issue 2 Feb 2017

**Issue Date:** April 26, 2021

**Date of Test:** February 5, 2021 - April 19, 2021

**Date of EUT Received:** February 5, 2021

### 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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By: \_\_\_\_\_

**Jay Lin / Asst. Supervisor**

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/10113	Rev.00	Original.	April 26, 2021	Elle Chang

**Note:**

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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# 1 GENERAL INFORMATION

## 1.1 Product description

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	TPN-H101
Model Difference:	NA
Hardware Version:	N/A
Software Version:	N/A
Model No. of WWAN/BT/WLAN Module:	QSIP7180
Class II & Class IV Permissive change:	7c Modular Platform INSTALLED IN Notebook Computer
Power Supply:	7.7Vdc from Rechargeable Li-ion Battery or 5 / 9 / 12 / 15 Vdc from AC/DC Adapter

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (dBm)	Modulation Technology
b	2412-2462	11	23.44	DSSS,
g			25.13	OFDM
n_HT20			HT: 25.23 (MIMO)	
n_HT40	2422-2452	7	HT: 24.98 (MIMO)	
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only			
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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## 1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Tx1 / Tx2	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	INPAQ Corporation	(MDA-LTE12LBLB-02-001)	Tx1	2402-2480	-2.26	
		(MDA-LTE12LBLB-02-001)	Tx2		-2.10	V

Note: Pre-scanned was done on the above 2 antennas, the Tx2 results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

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### 1.3 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 1, March 2019  
 ANSI C63.10:2013

### 1.4 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.

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 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 configuration

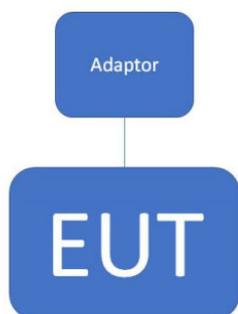


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

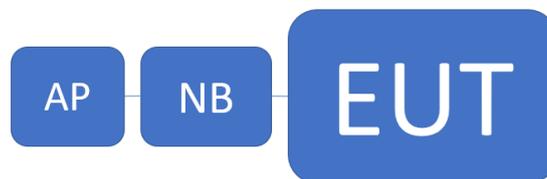


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	P0000195	N/A	N/A
3.	AP	ASUS	RT-AX88U	LAITHP000108	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

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

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2400 ~ 2483.5MHz Band

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

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

11 channels are provided for 802.11n/ac 40M

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

### 4.2 The Worst Test Modes and Channel Details

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

The given 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:**

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

**Note:**

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

**4.4 Antenna Port Conducted Measurement:**

<b>CONDUCTED TEST</b>					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 6, 13	DSSS	1	2TX
802.11g	1 to 13	1, 6, 13	OFDM	6	2TX
802.11n 20M	1 to 13	1, 6, 13	OFDM	MCS 8	MIMO
802.11n 40M	3 to 11	3, 6, 11	OFDM	MCS 8	MIMO

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Peak Output Power	+/- 0.84 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission Measurement Uncertainty	
<b>Polarization: Vertical</b>	9kHz~30MHz: +2.3dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
<b>Polarization: Horizontal</b>	9kHz~30MHz: +2.3dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

**Note:**

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

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## 6 PEAK OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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

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

**Note:**

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

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

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

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

$g_{j,k} = / 20 \log G_k$  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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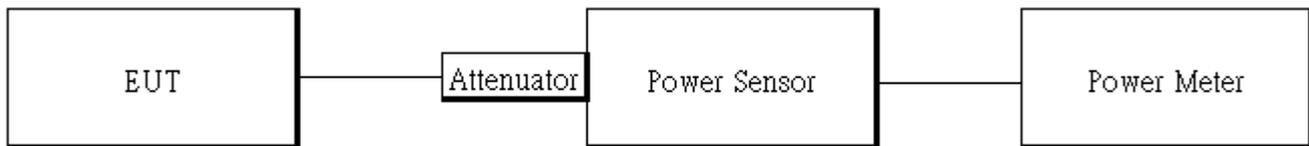
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## 6.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF09	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF10	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF151	11/19/2020	11/18/2021
Notebook	Lenovo	L430	P0000195	N/A	N/A
AP	ASUS	RT-AX88U	LAITHP000108	N/A	N/A

## 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	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	18	20.57	20.09	23.35	30.00	PASS
2	2417	1	18	20.59	19.95	23.29	30.00	PASS
6	2437	1	18	20.71	20.04	23.40	30.00	PASS
10	2457	1	18	20.41	20.45	<b>23.44</b>	30.00	PASS
11	2462	1	16.5	18.96	18.79	21.89	30.00	PASS
12	2467	1	16.5	18.87	18.71	21.80	30.00	PASS
13	2472	1	15	17.42	17.11	20.28	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	18	18.39	17.83	21.16	30.00	PASS
2	2417	1	18	18.28	17.86	21.12	30.00	PASS
6	2437	1	18	18.51	17.73	<b>21.18</b>	30.00	PASS
10	2457	1	18	18.11	17.89	21.04	30.00	PASS
11	2462	1	16.5	16.55	16.44	19.54	30.00	PASS
12	2467	1	16.5	16.66	16.45	19.60	30.00	PASS
13	2472	1	15	15.18	14.68	17.98	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	16.5	21.51	21.04	24.29	30.00	PASS
2	2417	6	18	22.24	21.65	24.97	30.00	PASS
6	2437	6	18	22.46	21.75	<b>25.13</b>	30.00	PASS
10	2457	6	17.5	22.14	21.57	24.87	30.00	PASS
11	2462	6	15.5	20.61	20.19	23.42	30.00	PASS
12	2467	6	14	19.55	19.06	22.32	30.00	PASS
13	2472	6	2.5	8.66	8.12	11.41	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	16.5	16.56	16.14	19.44	30.00	PASS
2	2417	6	18	18.12	17.42	20.87	30.00	PASS
6	2437	6	18	18.16	17.48	<b>20.92</b>	30.00	PASS
10	2457	6	17.5	17.33	17.22	20.36	30.00	PASS
11	2462	6	15.5	15.36	15.19	18.36	30.00	PASS
12	2467	6	14	14.02	13.69	16.94	30.00	PASS
13	2472	6	2.5	3.09	2.65	5.96	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	20.55	20.13	23.36	30.00	PASS
2	2417	MCS8	18	22.41	22.02	<b>25.23</b>	30.00	PASS
6	2437	MCS8	18	22.51	21.84	25.20	30.00	PASS
10	2457	MCS8	17	21.83	21.43	24.64	30.00	PASS
11	2462	MCS8	15	20.29	19.92	23.12	30.00	PASS
12	2467	MCS8	12.5	18.28	17.69	21.01	30.00	PASS
13	2472	MCS8	4.5	10.28	9.86	13.09	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	15.08	14.45	17.96	30.00	PASS
2	2417	MCS8	18	17.93	17.42	20.87	30.00	PASS
6	2437	MCS8	18	18.06	17.46	<b>20.95</b>	30.00	PASS
10	2457	MCS8	17	16.72	16.81	19.95	30.00	PASS
11	2462	MCS8	15	14.84	14.65	17.93	30.00	PASS
12	2467	MCS8	12.5	12.52	11.86	15.39	30.00	PASS
13	2472	MCS8	4.5	4.33	3.88	7.30	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	MCS0	15	20.50	20.08	23.31	30.00	PASS
2	2417	MCS0	17.5	22.33	21.96	<b>25.16</b>	30.00	PASS
6	2437	MCS0	17.5	22.46	21.74	25.13	30.00	PASS
10	2457	MCS0	17	21.78	21.33	24.57	30.00	PASS
11	2462	MCS0	15	20.21	19.84	23.04	30.00	PASS
12	2467	MCS0	12.5	18.21	17.62	20.94	30.00	PASS
13	2472	MCS0	4.5	10.23	9.80	13.03	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	MCS0	15	14.97	14.33	17.85	30.00	PASS
2	2417	MCS0	17.5	17.74	17.01	20.57	30.00	PASS
6	2437	MCS0	17.5	17.79	17.05	<b>20.62</b>	30.00	PASS
10	2457	MCS0	17	17.01	16.34	19.87	30.00	PASS
11	2462	MCS0	15	14.81	14.57	17.88	30.00	PASS
12	2467	MCS0	12.5	12.51	11.74	15.33	30.00	PASS
13	2472	MCS0	4.5	4.01	3.70	7.04	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	13.5	20.83	19.21	23.11	30.00	PASS
4	2427	MCS8	16	22.45	21.42	<b>24.98</b>	30.00	PASS
6	2437	MCS8	16	21.83	21.33	24.60	30.00	PASS
8	2447	MCS8	14	20.63	20.21	23.44	30.00	PASS
9	2452	MCS8	13	19.91	19.25	22.60	30.00	PASS
10	2457	MCS8	8.5	14.05	13.69	16.88	30.00	PASS
11	2462	MCS8	0.25	6.74	5.82	9.31	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	13.5	14.44	12.97	17.21	30.00	PASS
4	2427	MCS8	16	16.64	15.55	<b>19.57</b>	30.00	PASS
6	2437	MCS8	16	16.04	15.78	19.36	30.00	PASS
8	2447	MCS8	14	14.08	13.87	17.42	30.00	PASS
9	2452	MCS8	13	13.15	12.76	16.40	30.00	PASS
10	2457	MCS8	8.5	7.42	7.33	10.82	30.00	PASS
11	2462	MCS8	0.25	0.08	-0.55	3.22	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	MCS0	13.5	20.73	19.12	23.01	30.00	PASS
4	2427	MCS0	16	22.36	21.35	<b>24.89</b>	30.00	PASS
6	2437	MCS0	16	21.77	21.27	24.54	30.00	PASS
8	2447	MCS0	14	20.53	20.14	23.35	30.00	PASS
9	2452	MCS0	12.75	19.84	19.17	22.53	30.00	PASS
10	2457	MCS0	7.5	14.00	13.61	3.01	30.00	PASS
11	2462	MCS0	0.25	6.68	5.77	3.01	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	MCS0	13.5	14.34	12.84	17.10	30.00	PASS
4	2427	MCS0	16	16.54	15.41	<b>19.46</b>	30.00	PASS
6	2437	MCS0	16	16.00	15.77	19.33	30.00	PASS
8	2447	MCS0	14	14.04	13.67	17.30	30.00	PASS
9	2452	MCS0	12.75	13.11	12.74	16.37	30.00	PASS
10	2457	MCS0	7.5	6.87	6.01	9.91	30.00	PASS
11	2462	MCS0	0.25	-0.87	-1.28	2.38	30.00	PASS

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EIRP

802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	18.39	17.83	21.16	0.83	21.99	36	PASS
2	2417	1	18.28	17.86	21.12	0.83	21.95	36	PASS
6	2437	1	18.51	17.73	21.18	0.83	<b>22.01</b>	36	PASS
10	2457	1	18.11	17.89	21.04	0.83	21.87	36	PASS
11	2462	1	16.55	16.44	19.54	0.83	20.37	36	PASS
12	2467	1	16.66	16.45	19.60	0.83	20.43	36	PASS
13	2472	1	15.18	14.68	17.98	0.83	18.81	36	PASS
802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	16.56	16.14	19.44	0.83	20.27	36	PASS
2	2417	6	18.12	17.42	20.87	0.83	21.70	36	PASS
6	2437	6	18.16	17.48	20.92	0.83	<b>21.75</b>	36	PASS
10	2457	6	17.33	17.22	20.36	0.83	21.19	36	PASS
11	2462	6	15.36	15.19	18.36	0.83	19.19	36	PASS
12	2467	6	14.02	13.69	16.94	0.83	17.77	36	PASS
13	2472	6	3.09	2.65	5.96	0.83	6.79	36	PASS
802.11n_HT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	15.08	14.45	17.96	0.83	18.79	36	PASS
2	2417	MCS8	17.93	17.42	20.87	0.83	21.70	36	PASS
6	2437	MCS8	18.06	17.46	20.95	0.83	<b>21.78</b>	36	PASS
10	2457	MCS8	16.72	16.81	19.95	0.83	20.78	36	PASS
11	2462	MCS8	14.84	14.65	17.93	0.83	18.76	36	PASS
12	2467	MCS8	12.52	11.86	15.39	0.83	16.22	36	PASS
13	2472	MCS8	4.33	3.88	7.30	0.83	8.13	36	PASS

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802.11ac_VHT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1					
1	2412	MCS0	14.97	14.33	17.85	0.83	18.68	36	PASS
2	2417	MCS0	17.74	17.01	20.57	0.83	21.40	36	PASS
6	2437	MCS0	17.79	17.05	20.62	0.83	<b>21.45</b>	36	PASS
10	2457	MCS0	17.01	16.34	19.87	0.83	20.70	36	PASS
11	2462	MCS0	14.81	14.57	17.88	0.83	18.71	36	PASS
12	2467	MCS0	12.51	11.74	15.33	0.83	16.16	36	PASS
13	2472	MCS0	4.01	3.70	7.04	0.83	7.87	36	PASS

802.11n_HT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	14.44	12.97	17.21	0.83	18.04	36	PASS
4	2427	MCS8	16.64	15.55	19.57	0.83	<b>20.40</b>	36	PASS
6	2437	MCS8	16.04	15.78	19.36	0.83	20.19	36	PASS
8	2447	MCS8	14.08	13.87	17.42	0.83	18.25	36	PASS
9	2452	MCS8	13.15	12.76	16.40	0.83	17.23	36	PASS
10	2457	MCS8	7.42	7.33	10.82	0.83	11.65	36	PASS
11	2462	MCS8	0.08	-0.55	3.22	0.83	4.05	36	PASS

802.11ac_VHT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1					
3	2422	MCS0	14.34	12.84	17.10	0.83	17.93	36	PASS
4	2427	MCS0	16.54	15.41	19.46	0.83	<b>20.29</b>	36	PASS
6	2437	MCS0	16.00	15.77	19.33	0.83	20.16	36	PASS
8	2447	MCS0	14.04	13.67	17.30	0.83	18.13	36	PASS
9	2452	MCS0	13.11	12.74	16.37	0.83	17.20	36	PASS
10	2457	MCS0	6.87	6.01	9.91	0.83	10.74	36	PASS
11	2462	MCS0	-0.87	-1.28	2.38	0.83	3.21	36	PASS

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## 7 RADIATED BANDEGE 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.
2. Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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**7.2 Measurement Equipment Used:**

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LINDGREN	6502	143303	04/28/2020	04/27/2021
EMI Test Receiver	R&S	ESU 40	100363	04/29/2020	04/28/2021
Pre-Amplifier	EMC Instruments	EMC330	980096	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

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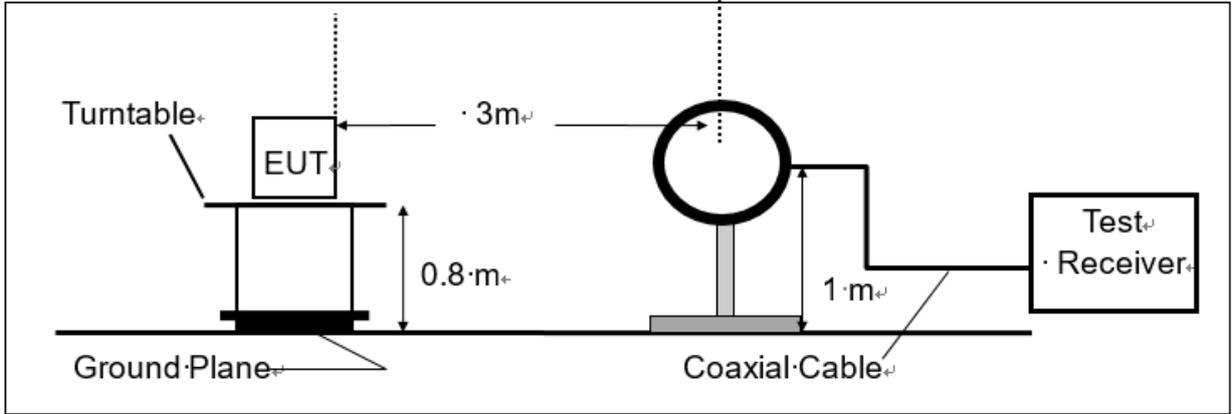
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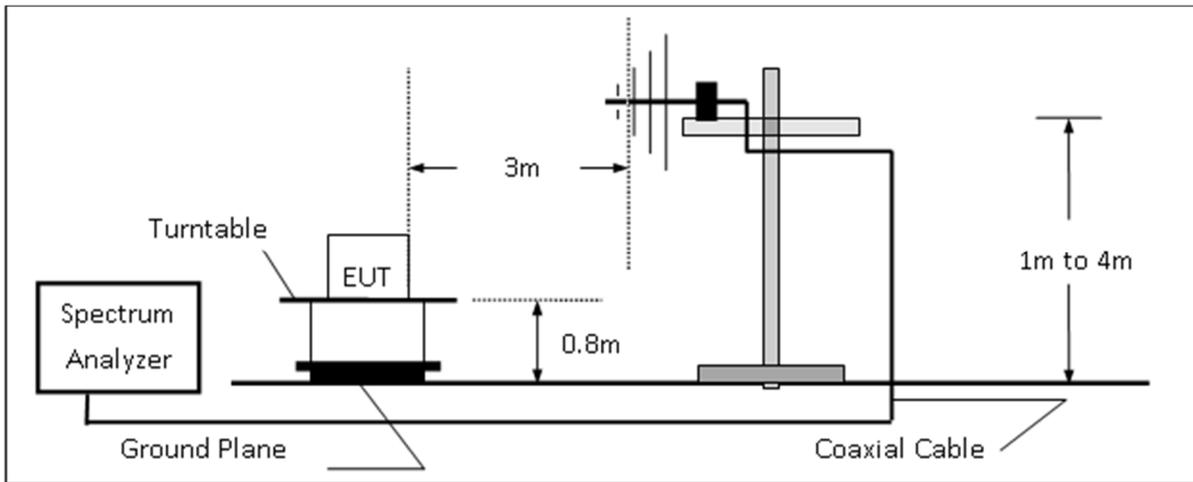
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### 7.3 Test SET-UP

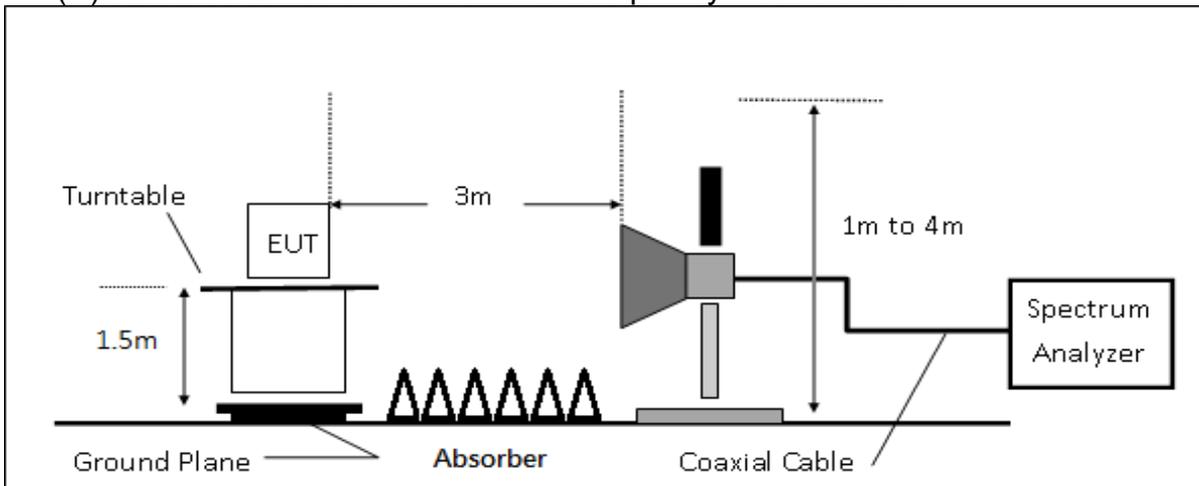
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 7.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector 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 Detector at frequency above 1 GHz.
9. 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.
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. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
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 form 9 kHz to 30 MHz

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

## 7.7 Measurement Result

### Note:

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

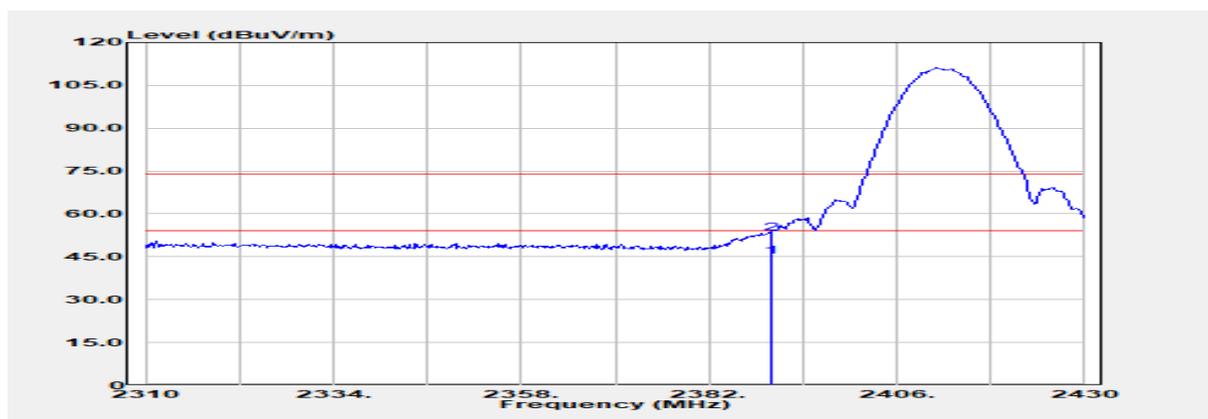
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### 7.7.1 Radiated Band Edge Measurement Result

Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 01	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



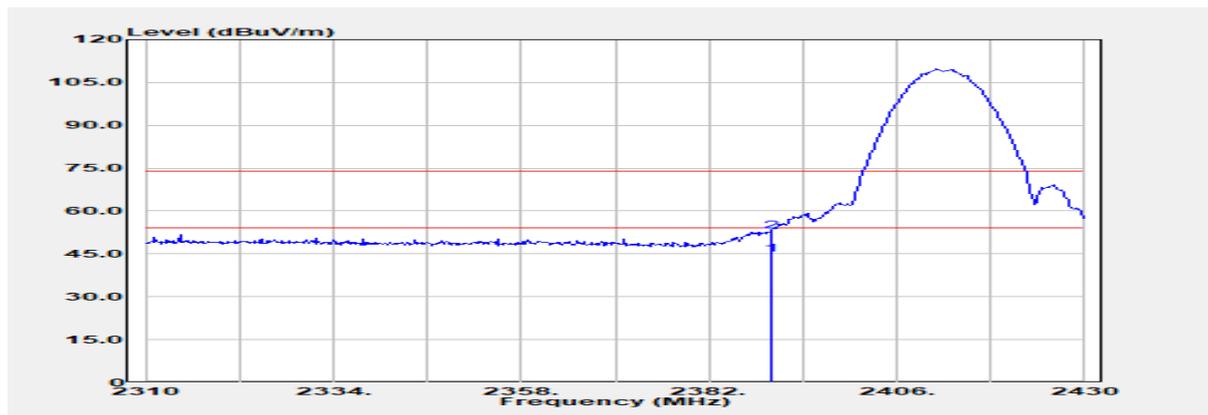
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	40.01	5.18	45.19	54.00	-8.81
2390.000	Peak	48.03	5.18	53.21	74.00	-20.79

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 01	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



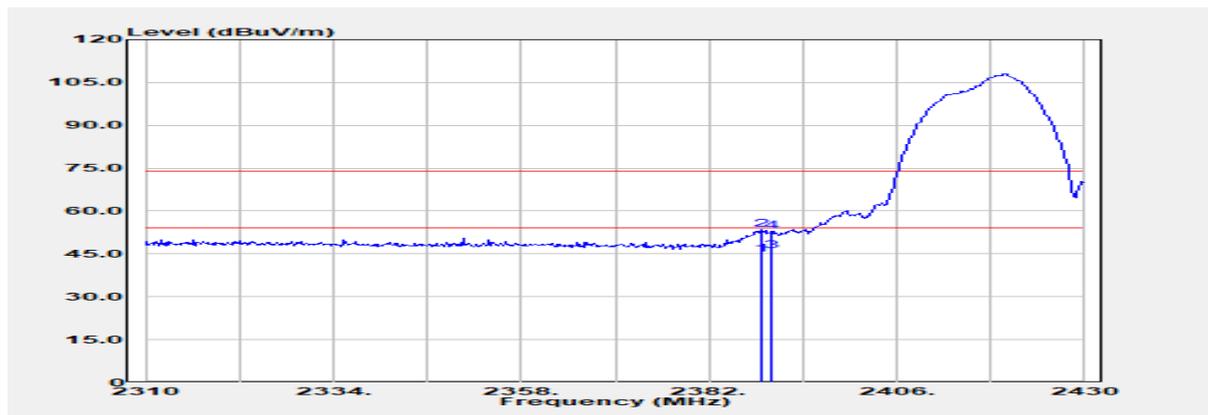
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	39.51	5.18	44.69	54.00	-9.31
2390.000	Peak	47.86	5.18	53.04	74.00	-20.96

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2417 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 02	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2388.846	Average	39.76	5.13	44.89	54.00	-9.11
2388.846	Peak	48.34	5.13	53.47	74.00	-20.53
2390.000	Average	40.82	5.18	46.00	54.00	-8.00
2390.000	Peak	47.83	5.18	53.01	74.00	-20.99

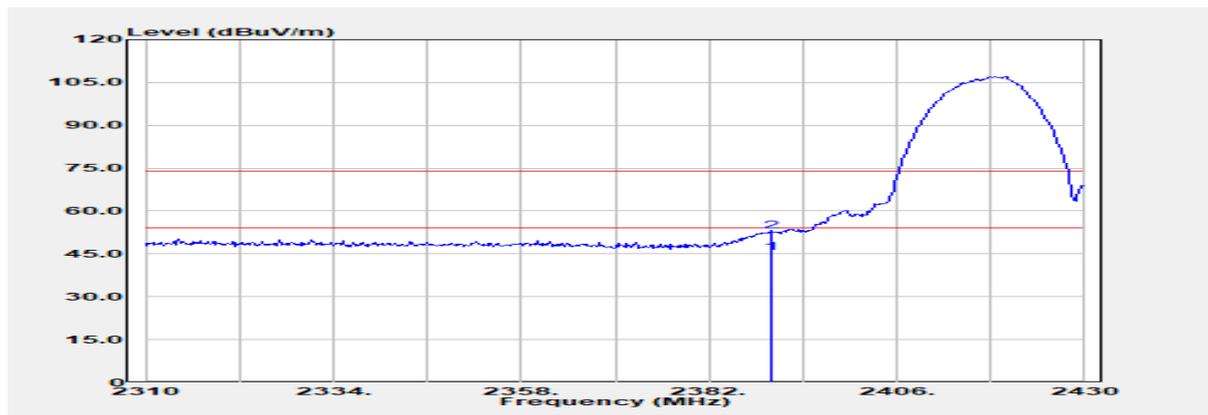
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2417 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 02	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	40.26	5.18	45.44	54.00	-8.56
2390.000	Peak	47.78	5.18	52.96	74.00	-21.04

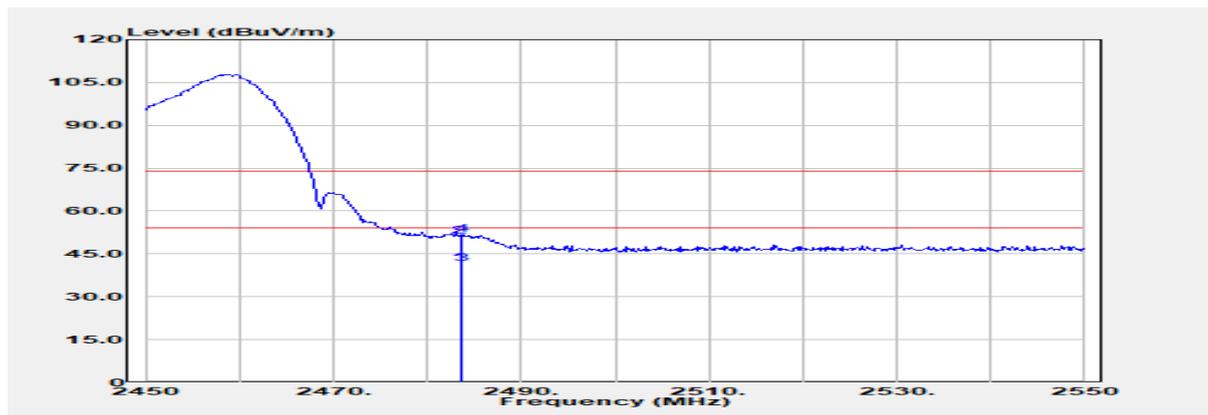
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2457 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 10	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



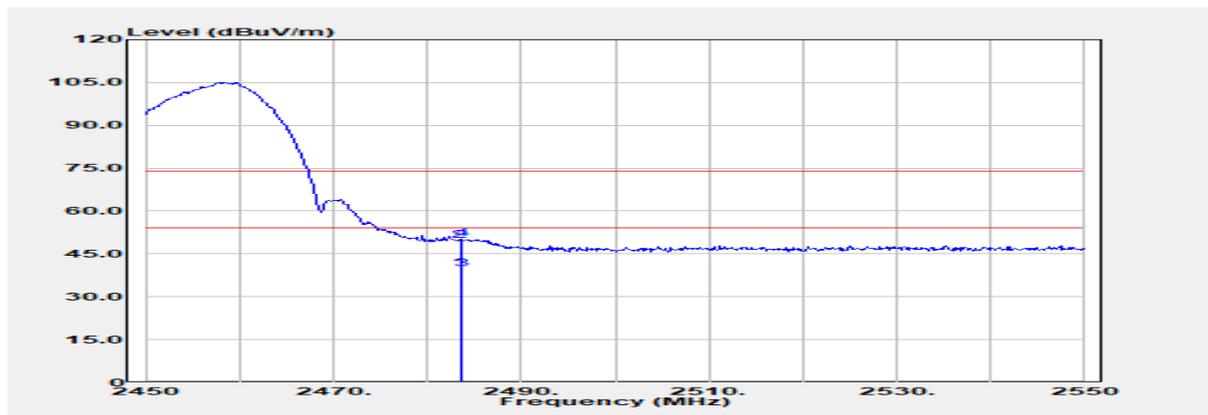
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	37.51	4.04	41.55	54.00	-12.45
2483.500	Peak	47.09	4.04	51.12	74.00	-22.88
2483.654	Average	37.47	4.03	41.50	54.00	-12.50
2483.654	Peak	47.80	4.03	51.84	74.00	-22.16

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2457 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 10	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	35.62	4.04	39.66	54.00	-14.34
2483.500	Peak	45.72	4.04	49.76	74.00	-24.24
2483.654	Average	35.52	4.03	39.55	54.00	-14.45
2483.654	Peak	46.10	4.03	50.14	74.00	-23.86

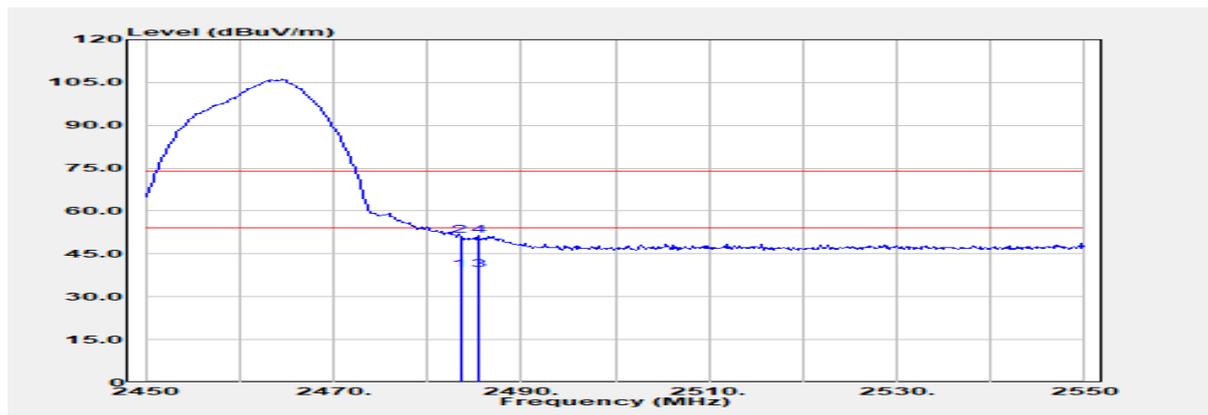
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 11	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	35.31	4.04	39.35	54.00	-14.65
2483.500	Peak	47.30	4.04	51.34	74.00	-22.66
2485.417	Average	35.26	4.02	39.28	54.00	-14.72
2485.417	Peak	47.44	4.02	51.46	74.00	-22.54

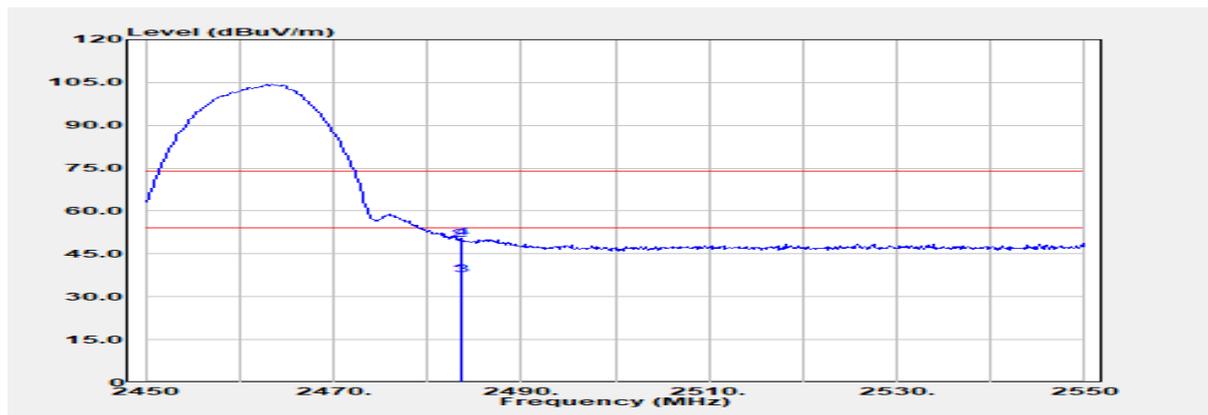
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2462 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 11	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	33.55	4.04	37.59	54.00	-16.41
2483.500	Peak	45.79	4.04	49.83	74.00	-24.17
2483.654	Average	33.49	4.03	37.52	54.00	-16.48
2483.654	Peak	46.60	4.03	50.64	74.00	-23.36

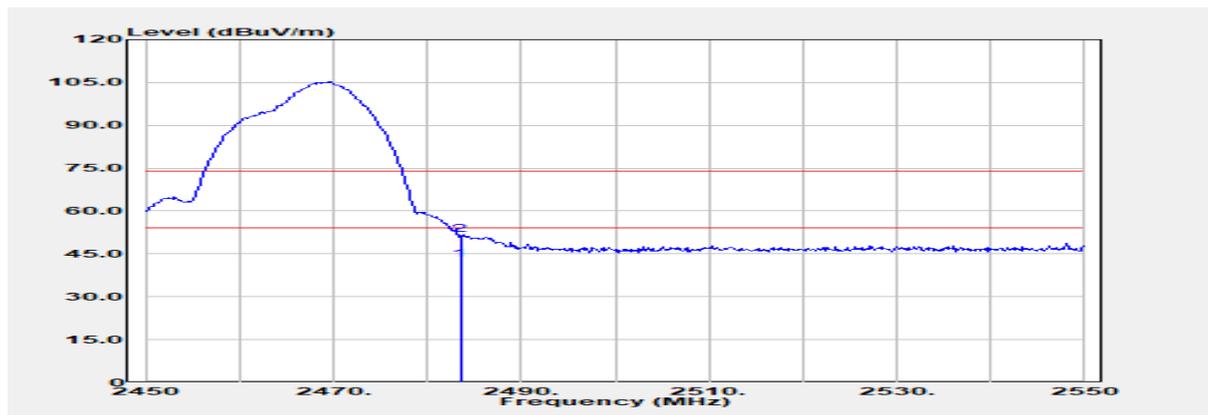
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2467 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 12	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	39.08	4.04	43.12	54.00	-10.88
2483.500	Peak	47.59	4.04	51.63	74.00	-22.37

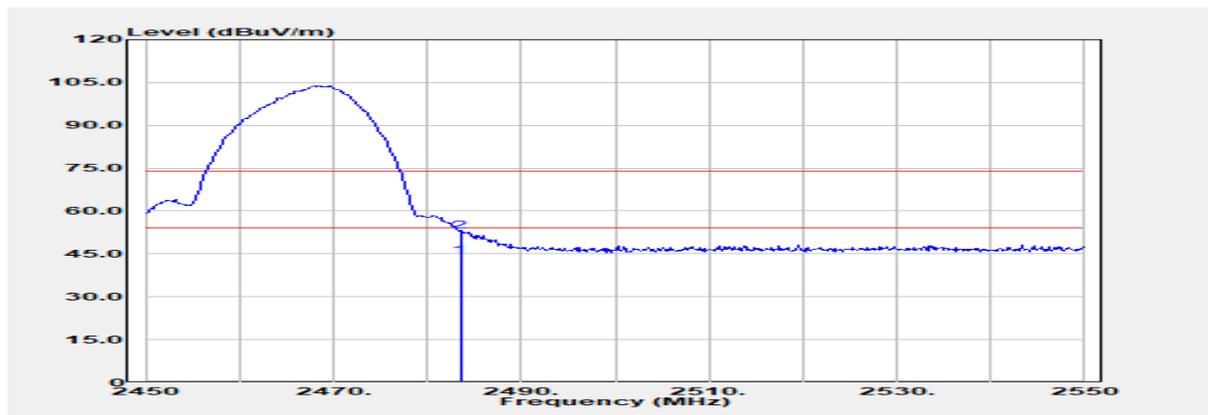
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2467 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



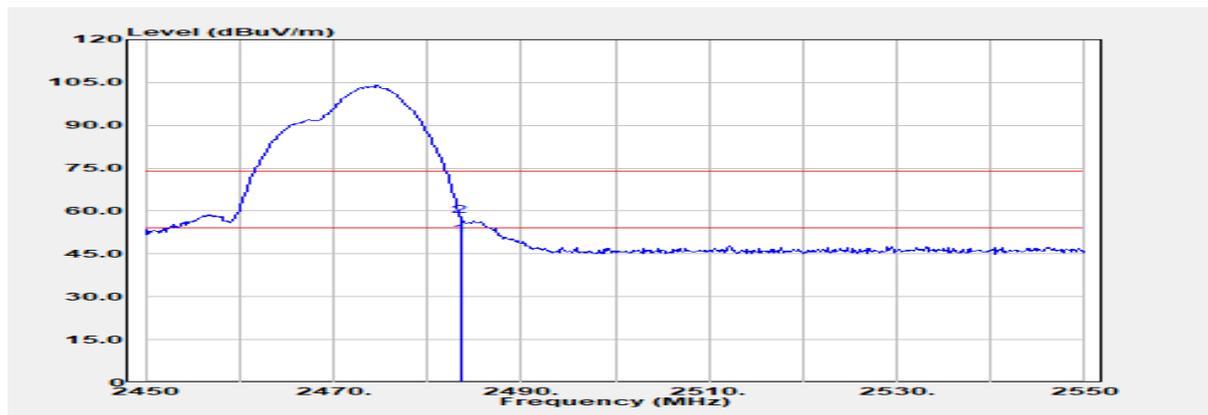
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	40.11	4.04	44.15	54.00	-9.85
2483.500	Peak	48.88	4.04	52.91	74.00	-21.09

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2472 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 13	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



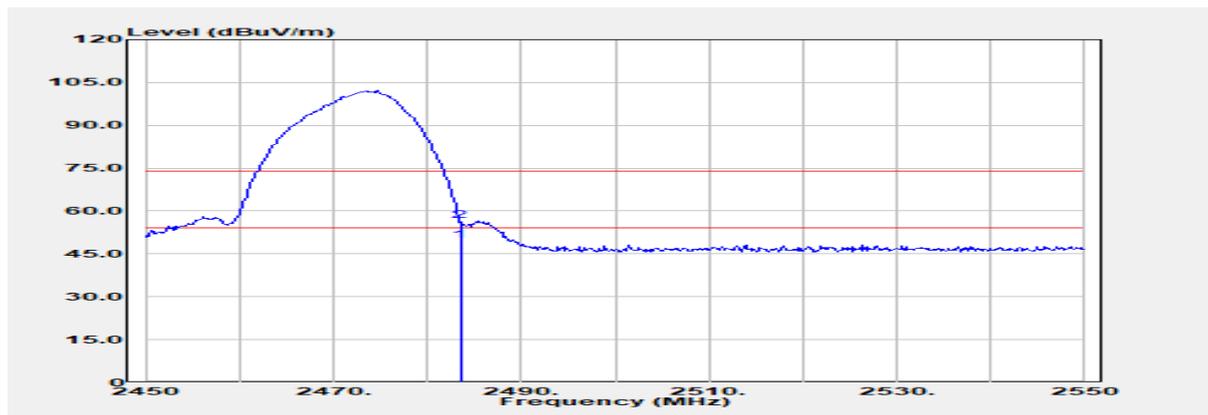
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	47.77	4.04	51.81	54.00	-2.19
2483.500	Peak	54.30	4.04	58.34	74.00	-15.66

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2472 MHz	Temp./Humi.	:22.8/64
Test Mode	:BE CH 13	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



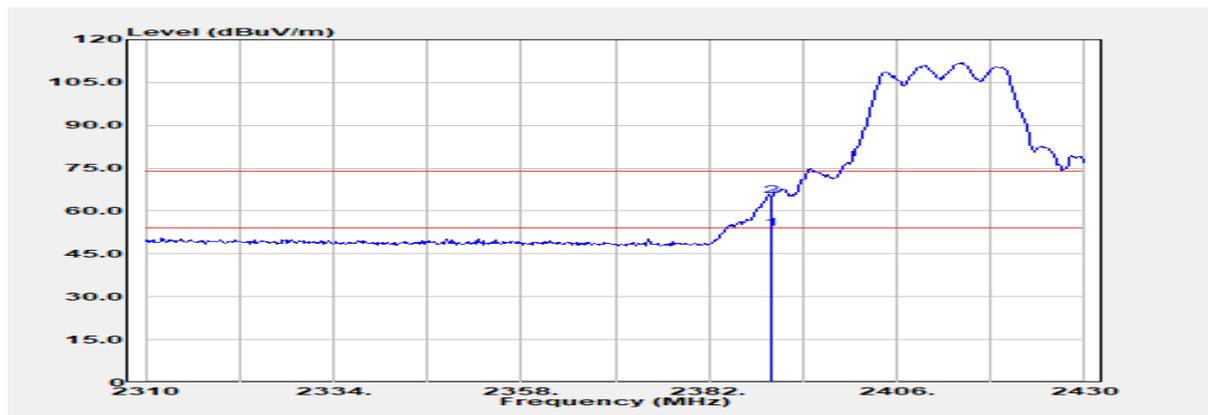
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	45.71	4.04	49.75	54.00	-4.25
2483.500	Peak	52.43	4.04	56.47	74.00	-17.53

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2412 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 01	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	48.56	5.18	53.74	54.00	-0.26
2390.000	Peak	59.97	5.18	65.15	74.00	-8.85

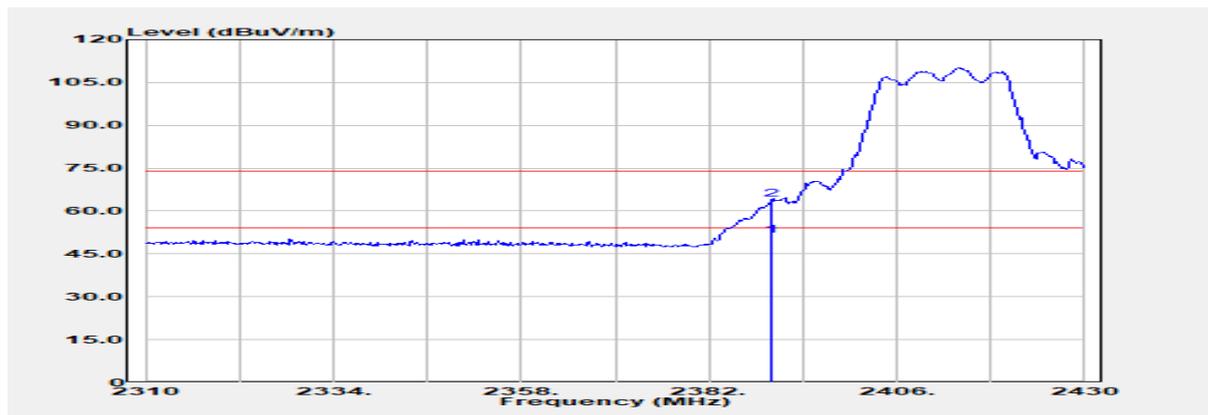
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2412 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 01	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



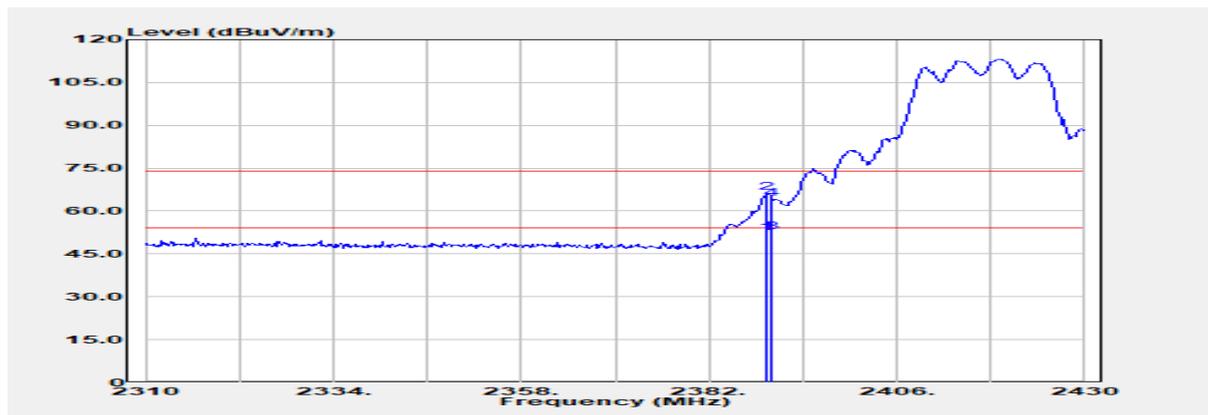
Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	46.22	5.18	51.40	54.00	-2.60
2390.000	Peak	58.92	5.18	64.10	74.00	-9.90

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2417 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 02	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.423	Average	47.29	5.15	52.44	54.00	-1.56
2389.423	Peak	61.19	5.15	66.35	74.00	-7.65
2390.000	Average	47.36	5.18	52.54	54.00	-1.46
2390.000	Peak	59.18	5.18	64.36	74.00	-9.64

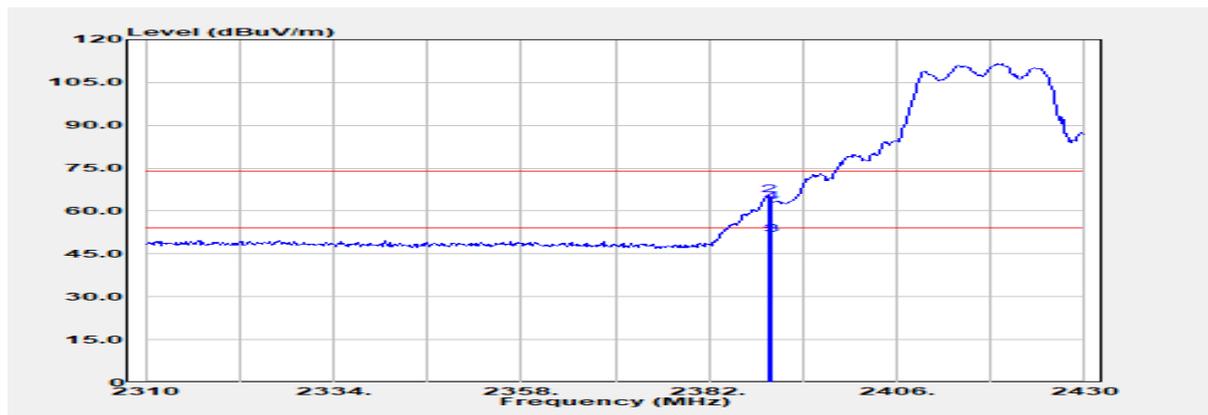
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2417 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 02	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.615	Average	46.26	5.16	51.42	54.00	-2.58
2389.615	Peak	60.40	5.16	65.56	74.00	-8.44
2390.000	Average	46.49	5.18	51.67	54.00	-2.33
2390.000	Peak	58.04	5.18	63.22	74.00	-10.78

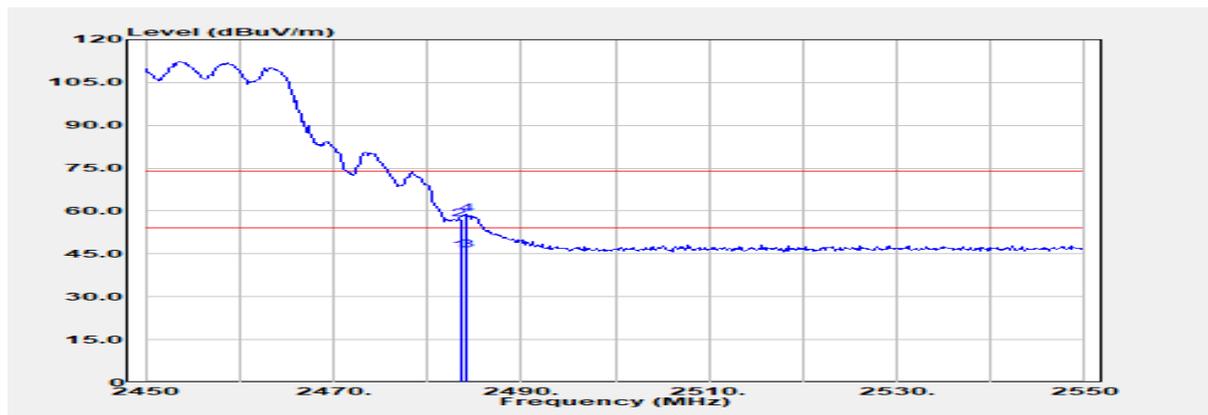
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2457 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 10	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



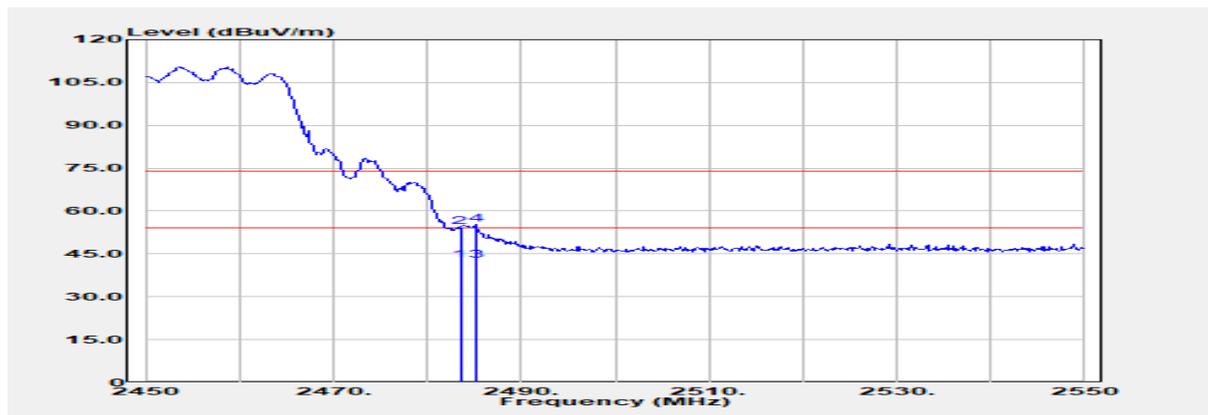
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.11	4.04	46.15	54.00	-7.85
2483.500	Peak	52.98	4.04	57.01	74.00	-16.99
2484.135	Average	42.23	4.03	46.26	54.00	-7.74
2484.135	Peak	54.99	4.03	59.02	74.00	-14.98

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2457 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 10	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	38.67	4.04	42.71	54.00	-11.29
2483.500	Peak	50.33	4.04	54.36	74.00	-19.64
2485.096	Average	38.66	4.02	42.68	54.00	-11.32
2485.096	Peak	51.28	4.02	55.30	74.00	-18.70

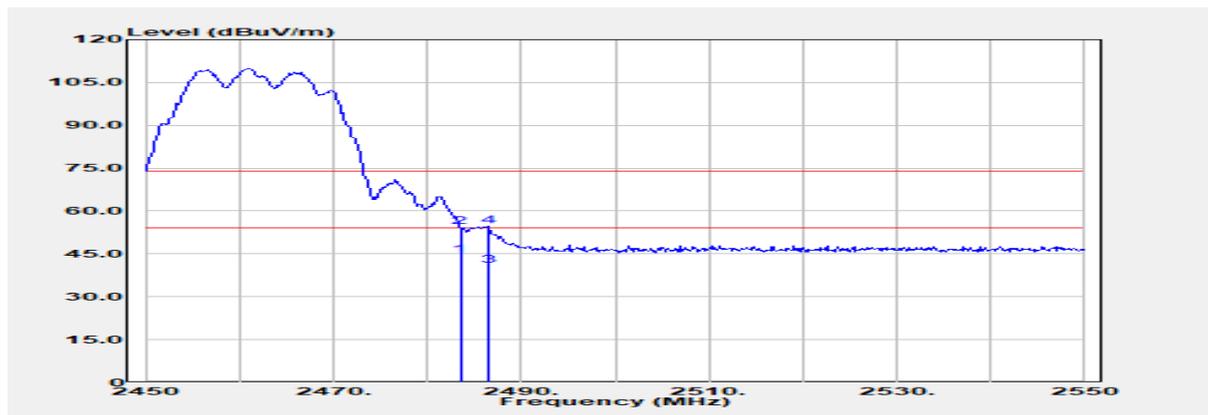
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2462 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 11	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	40.46	4.04	44.50	54.00	-9.50
2483.500	Peak	50.52	4.04	54.55	74.00	-19.45
2486.539	Average	37.03	4.01	41.04	54.00	-12.96
2486.539	Peak	50.71	4.01	54.72	74.00	-19.28

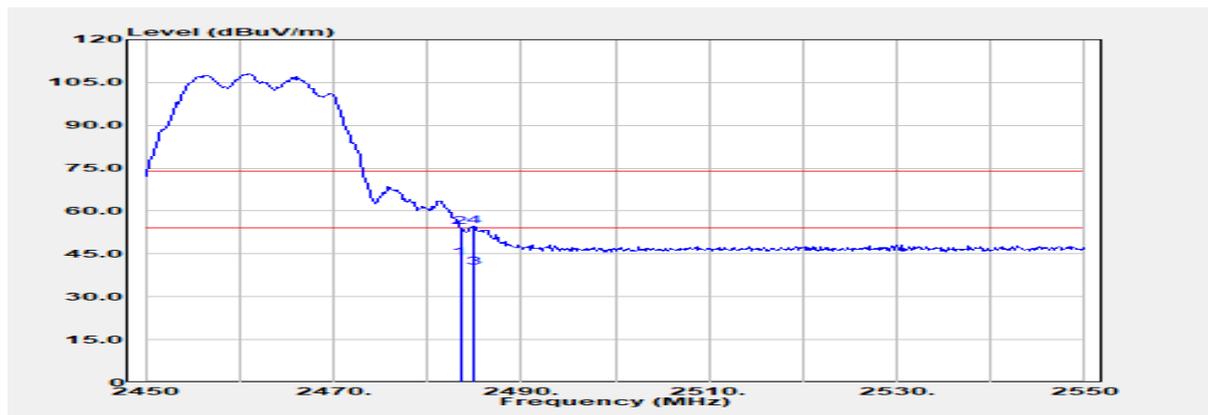
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2462 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 11	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	39.64	4.04	43.68	54.00	-10.32
2483.500	Peak	50.36	4.04	54.39	74.00	-19.61
2484.936	Average	36.32	4.02	40.34	54.00	-13.66
2484.936	Peak	50.63	4.02	54.65	74.00	-19.35

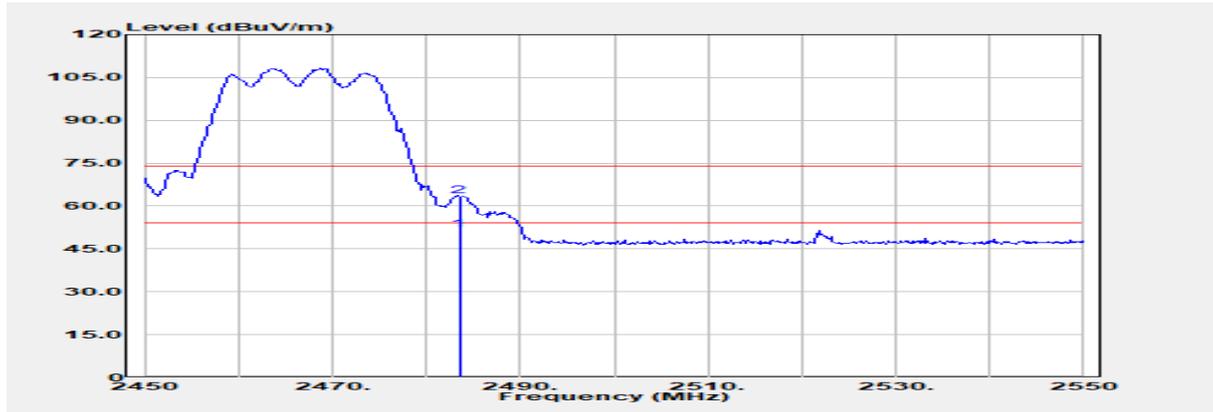
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2467 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 12	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	47.73	4.04	51.77	54.00	-2.23
2483.500	Peak	59.43	4.04	63.46	74.00	-10.54

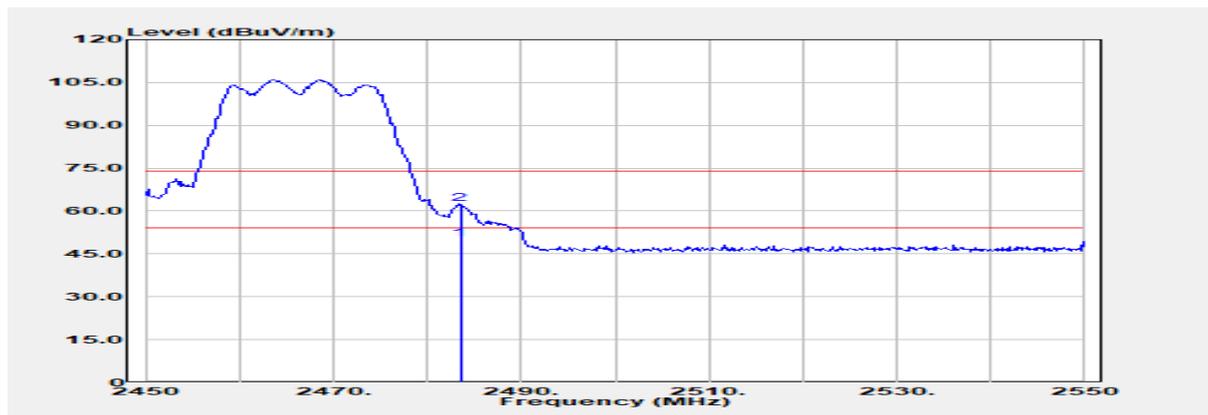
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2467 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	46.34	4.04	50.38	54.00	-3.62
2483.500	Peak	58.51	4.04	62.55	74.00	-11.45

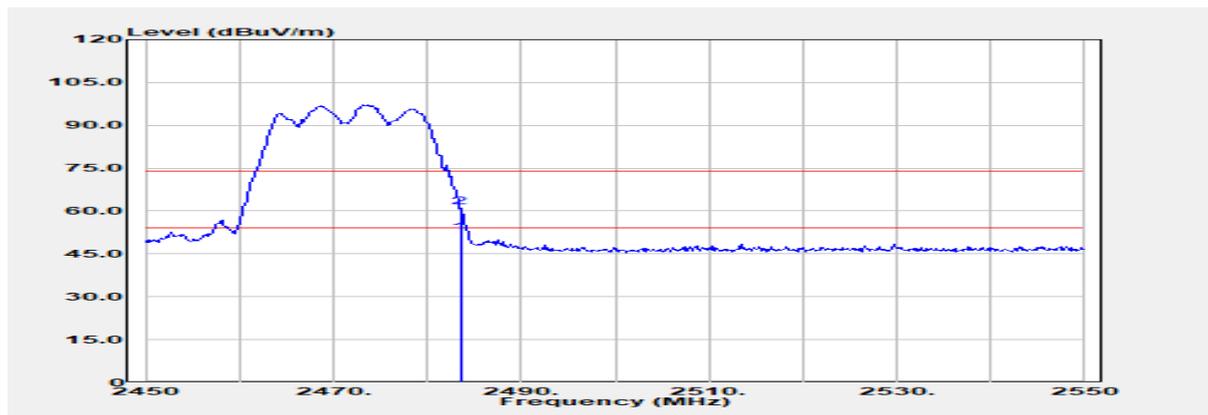
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2472 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 13	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	48.18	4.04	52.22	54.00	-1.78
2483.500	Peak	57.30	4.04	61.34	74.00	-12.66

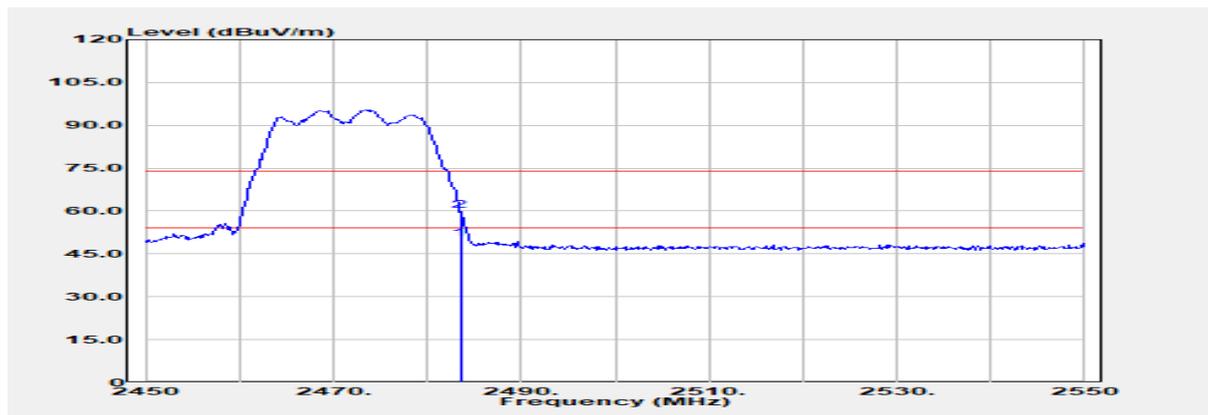
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11g	Test Date	:2021-03-29
Test Frequency	:2472 MHz	Temp./Humi.	:22.5/66
Test Mode	:BE CH 13	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	46.11	4.04	50.15	54.00	-3.85
2483.500	Peak	56.01	4.04	60.05	74.00	-13.95

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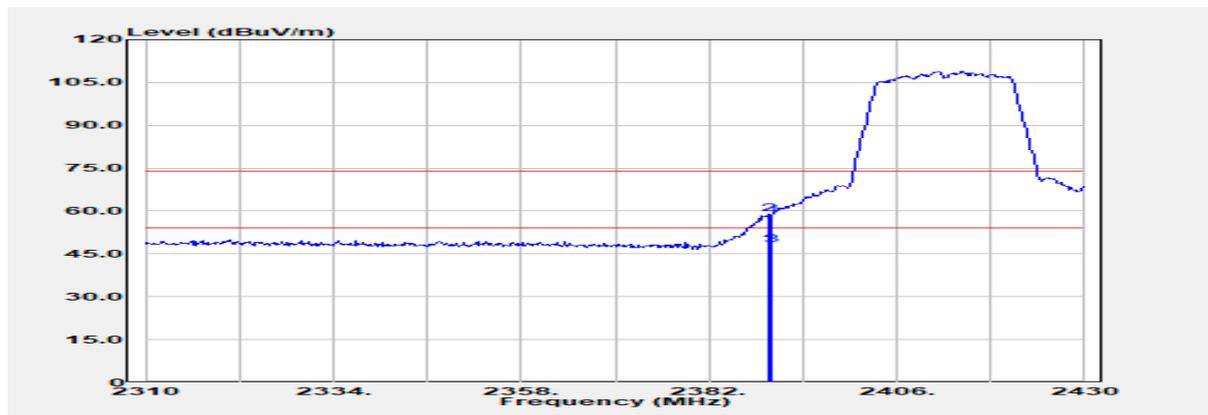
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Report Number :E2/2021/10103  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :BE CH 01  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-29  
Temp./Humi. :22.3/65  
Antenna Pol. :Horizontal  
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.615	Average	43.02	5.16	48.18	54.00	-5.82
2389.615	Peak	53.69	5.16	58.85	74.00	-15.15
2390.000	Average	43.06	5.18	48.24	54.00	-5.76
2390.000	Peak	53.15	5.18	58.33	74.00	-15.67

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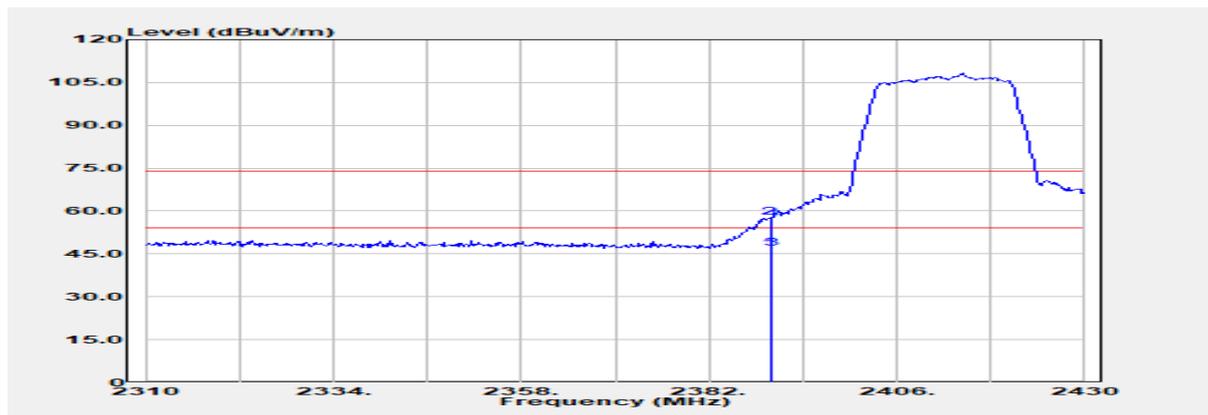
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Report Number :E2/2021/10103  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :BE CH 01  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-29  
Temp./Humi. :22.3/65  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.808	Average	41.57	5.17	46.74	54.00	-7.26
2389.808	Peak	52.72	5.17	57.89	74.00	-16.11
2390.000	Average	41.60	5.18	46.78	54.00	-7.22
2390.000	Peak	51.89	5.18	57.07	74.00	-16.93

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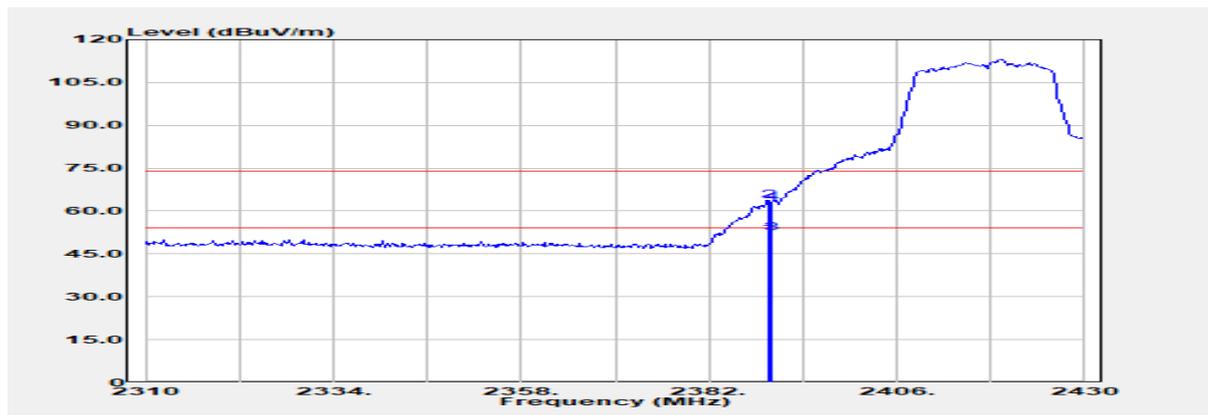
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Report Number :E2/2021/10103  
Operation Mode :802.11n20  
Test Frequency :2417 MHz  
Test Mode :BE CH 02  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-29  
Temp./Humi. :22.3/65  
Antenna Pol. :Horizontal  
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.615	Average	46.78	5.16	51.94	54.00	-2.06
2389.615	Peak	58.47	5.16	63.64	74.00	-10.36
2390.000	Average	47.01	5.18	52.19	54.00	-1.81
2390.000	Peak	57.54	5.18	62.72	74.00	-11.28

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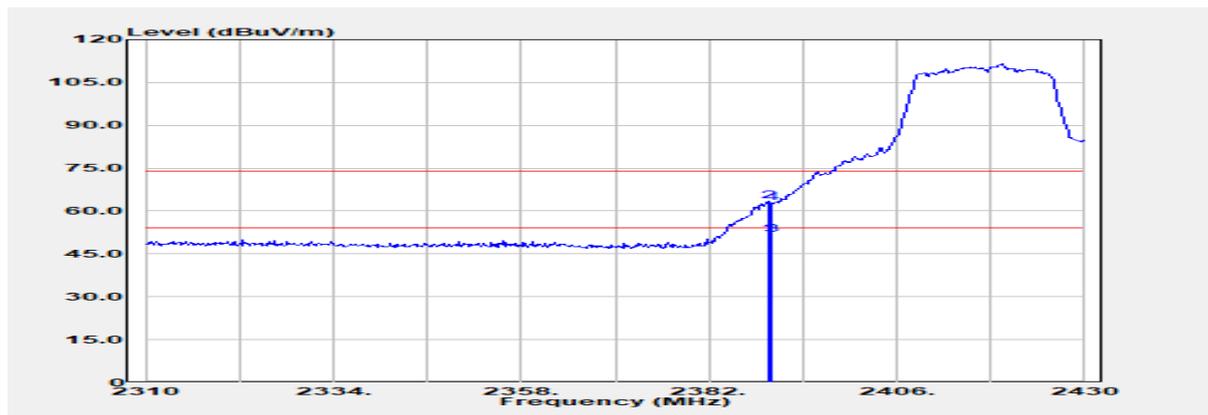
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Report Number :E2/2021/10103  
Operation Mode :802.11n20  
Test Frequency :2417 MHz  
Test Mode :BE CH 02  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-29  
Temp./Humi. :22.3/65  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.615	Average	46.45	5.16	51.61	54.00	-2.39
2389.615	Peak	58.18	5.16	63.35	74.00	-10.65
2390.000	Average	46.50	5.18	51.68	54.00	-2.32
2390.000	Peak	57.70	5.18	62.88	74.00	-11.12

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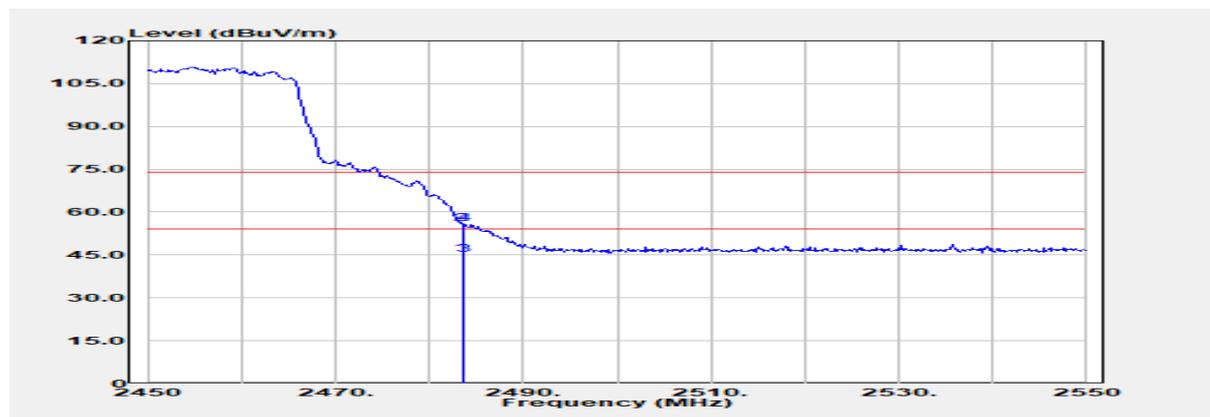
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Report Number :E2/2021/10103  
Operation Mode :802.11n20  
Test Frequency :2457 MHz  
Test Mode :BE CH 10  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-29  
Temp./Humi. :22.3/65  
Antenna Pol. :Horizontal  
Engineer :Enzo Chang



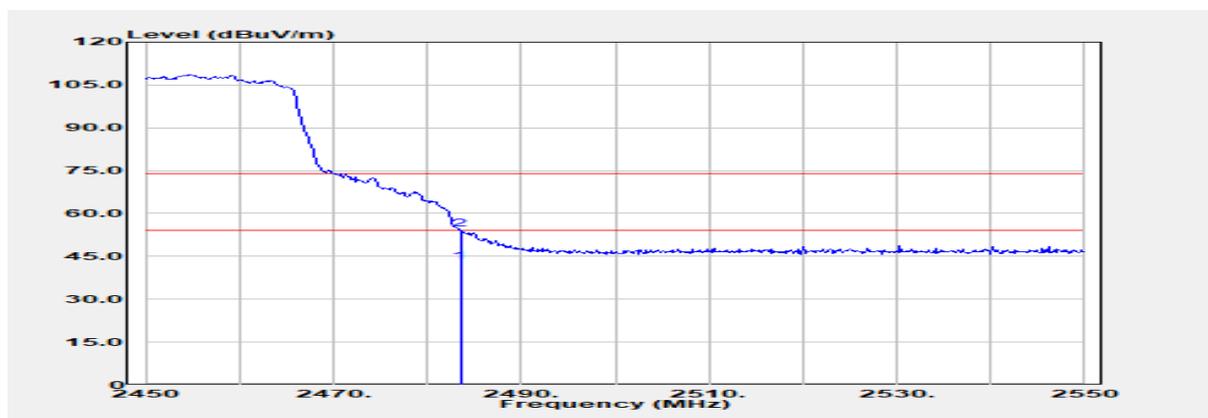
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	41.28	4.04	45.32	54.00	-8.68
2483.500	Peak	51.85	4.04	55.88	74.00	-18.12
2483.654	Average	41.15	4.03	45.18	54.00	-8.82
2483.654	Peak	51.96	4.03	55.99	74.00	-18.01

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2457 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 10	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



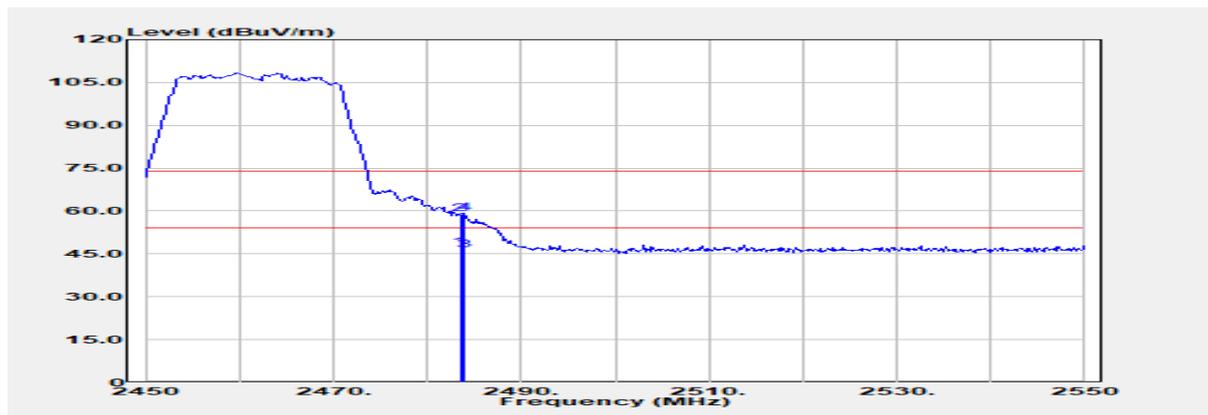
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	38.88	4.04	42.92	54.00	-11.08
2483.500	Peak	50.44	4.04	54.47	74.00	-19.53

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2462 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 11	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	43.15	4.04	47.19	54.00	-6.81
2483.500	Peak	54.76	4.04	58.80	74.00	-15.20
2483.974	Average	42.31	4.03	46.34	54.00	-7.66
2483.974	Peak	55.22	4.03	59.25	74.00	-14.75

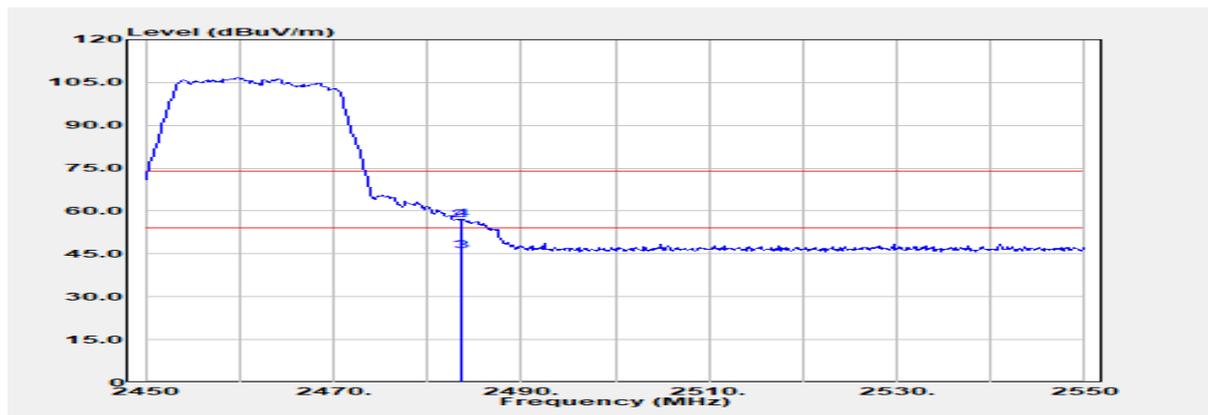
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2462 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 11	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.36	4.04	46.40	54.00	-7.60
2483.500	Peak	52.91	4.04	56.95	74.00	-17.05
2483.654	Average	41.98	4.03	46.01	54.00	-7.99
2483.654	Peak	53.21	4.03	57.25	74.00	-16.75

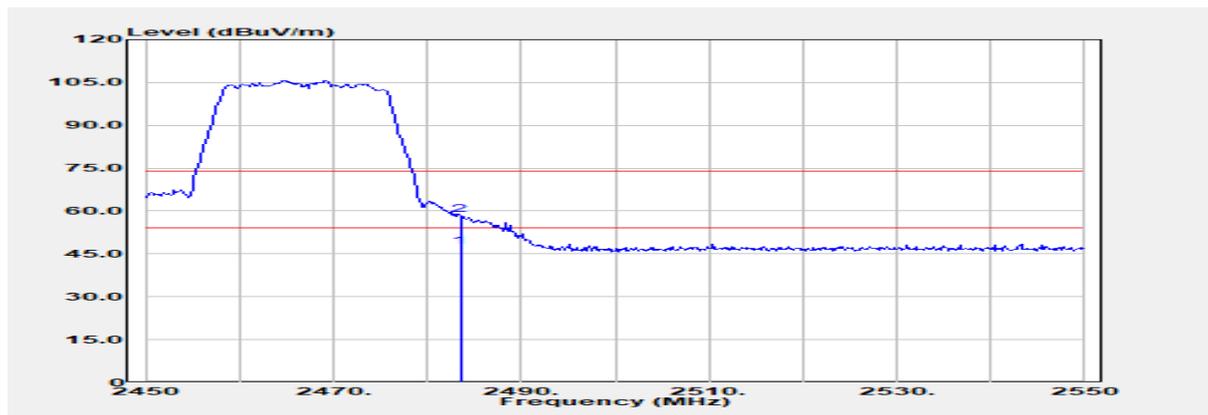
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2467 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 12	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	43.38	4.04	47.42	54.00	-6.58
2483.500	Peak	54.73	4.04	58.76	74.00	-15.24

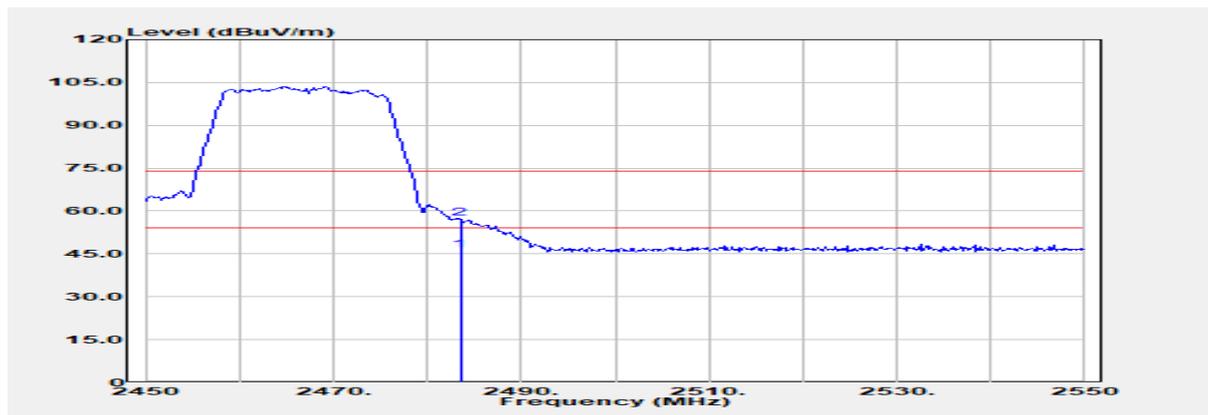
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2467 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 12	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.41	4.04	46.45	54.00	-7.55
2483.500	Peak	53.51	4.04	57.55	74.00	-16.45

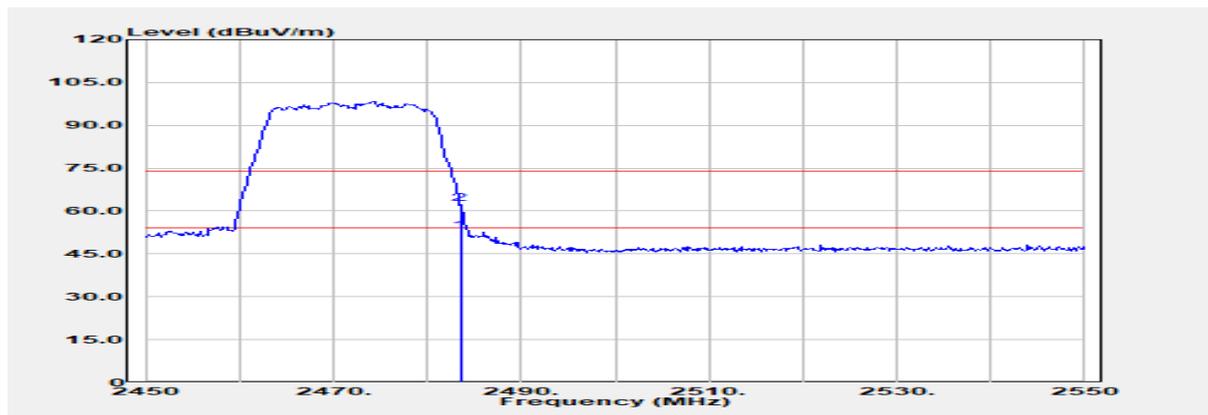
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2472 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 13	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



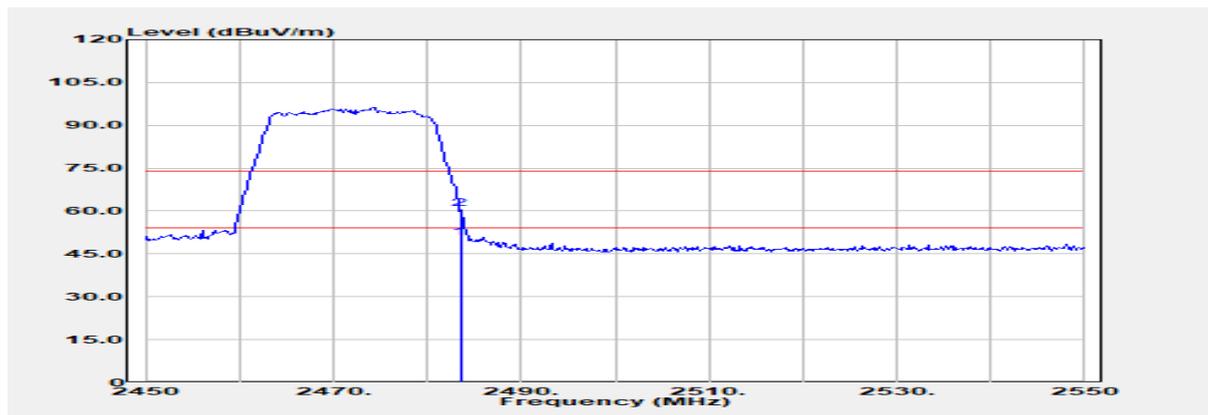
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	48.97	4.04	53.01	54.00	-0.99
2483.500	Peak	58.59	4.04	62.63	74.00	-11.37

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n20	Test Date	:2021-03-29
Test Frequency	:2472 MHz	Temp./Humi.	:22.3/65
Test Mode	:BE CH 13	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



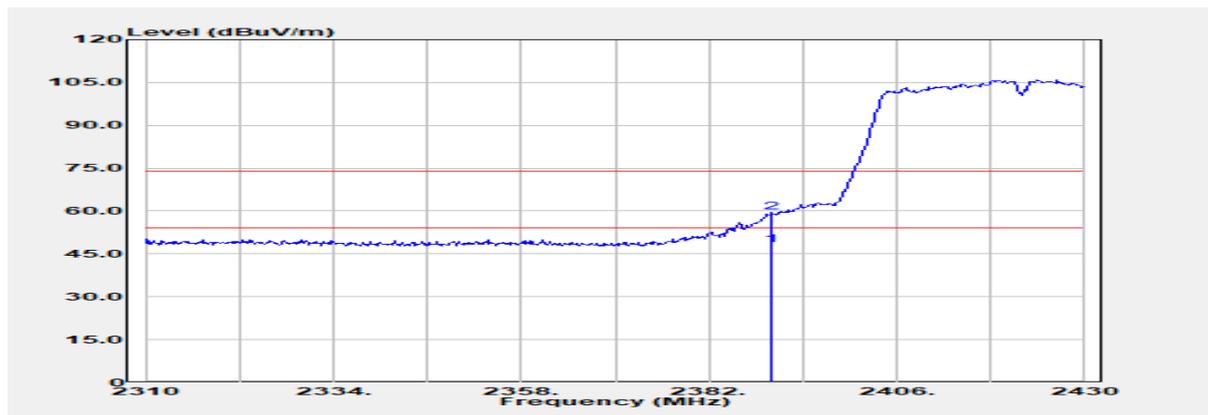
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
2483.500	Average	46.55	4.04	50.59	54.00	-3.41
2483.500	Peak	56.65	4.04	60.69	74.00	-13.31

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2422 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 03	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	42.96	5.18	48.14	54.00	-5.86
2390.000	Peak	54.35	5.18	59.53	74.00	-14.47

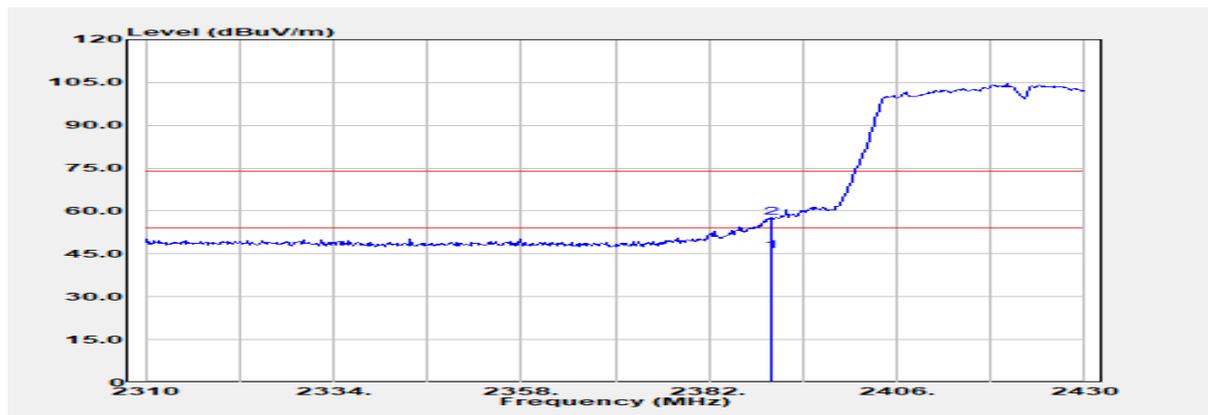
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2422 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 03	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2390.000	Average	40.87	5.18	46.05	54.00	-7.95
2390.000	Peak	52.64	5.18	57.82	74.00	-16.18

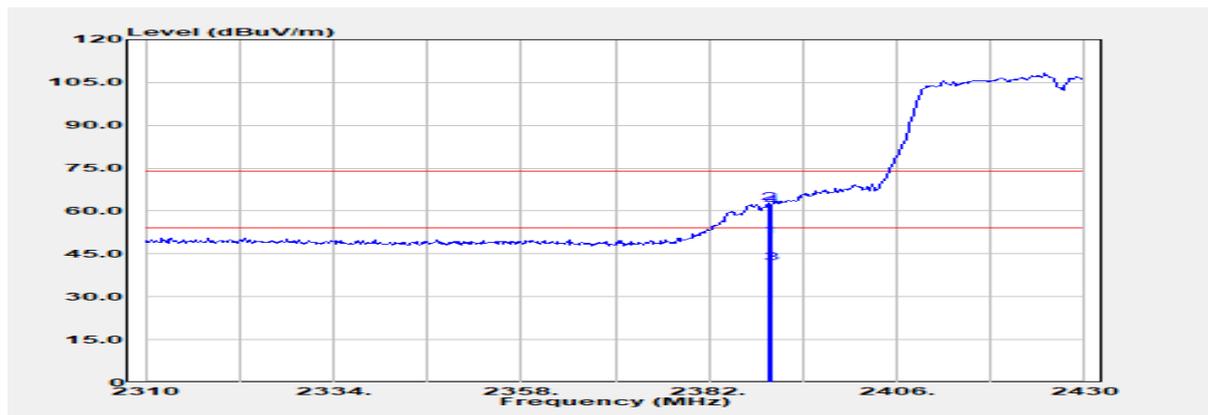
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2427 MHz	Temp./Humi.	:21.3/61
Test Mode	:BE CH 04	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.615	Average	45.91	5.16	51.07	54.00	-2.93
2389.615	Peak	57.68	5.16	62.84	74.00	-11.16
2390.000	Average	36.71	5.18	41.89	54.00	-12.11
2390.000	Peak	56.42	5.18	61.60	74.00	-12.40

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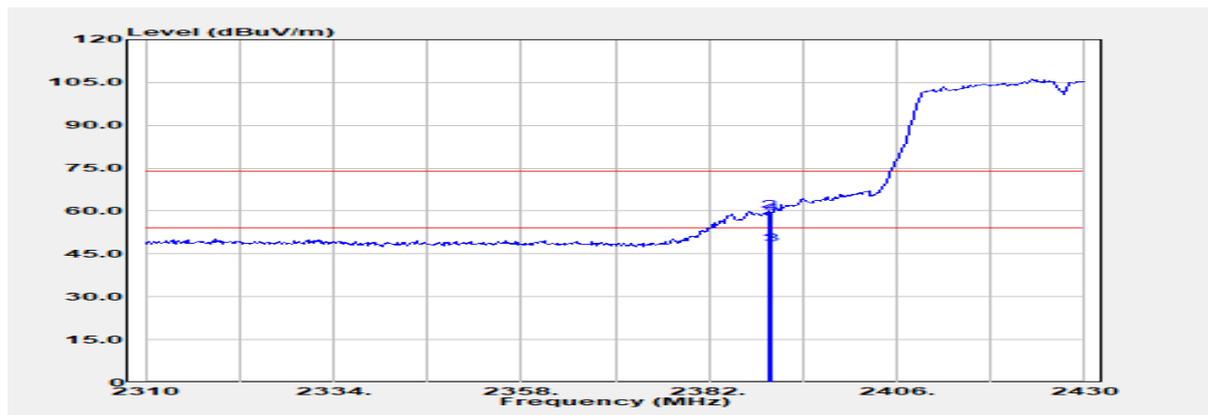
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Report Number :E2/2021/10103  
Operation Mode :802.11n40  
Test Frequency :2427 MHz  
Test Mode :BE CH 04  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-30  
Temp./Humi. :21.3/61  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



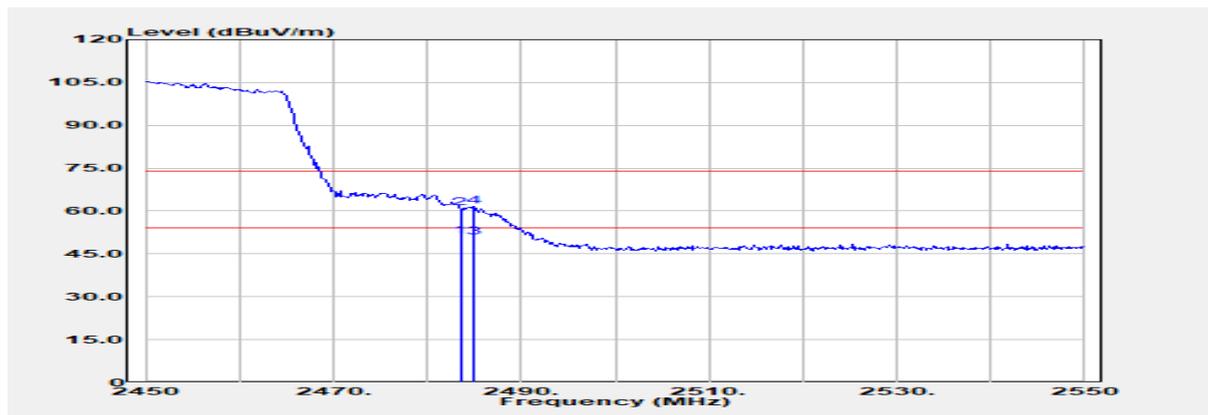
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2389.615	Average	43.30	5.16	48.46	54.00	-5.54
2389.615	Peak	54.90	5.16	60.06	74.00	-13.94
2390.000	Average	43.31	5.18	48.49	54.00	-5.51
2390.000	Peak	53.84	5.18	59.02	74.00	-14.98

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2447 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 08	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	46.99	4.04	51.03	54.00	-2.97
2483.500	Peak	57.13	4.04	61.17	74.00	-12.83
2484.936	Average	46.88	4.02	50.90	54.00	-3.10
2484.936	Peak	57.61	4.02	61.63	74.00	-12.37

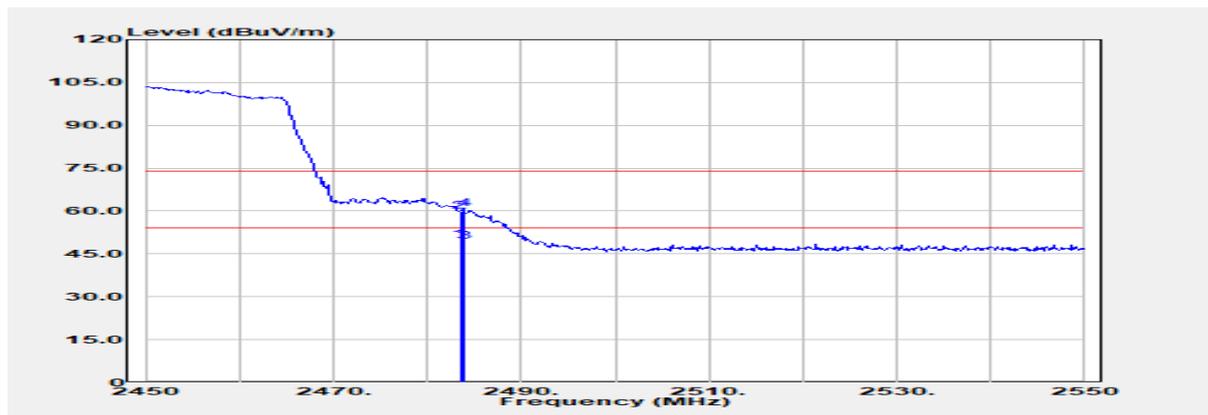
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2447 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 08	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



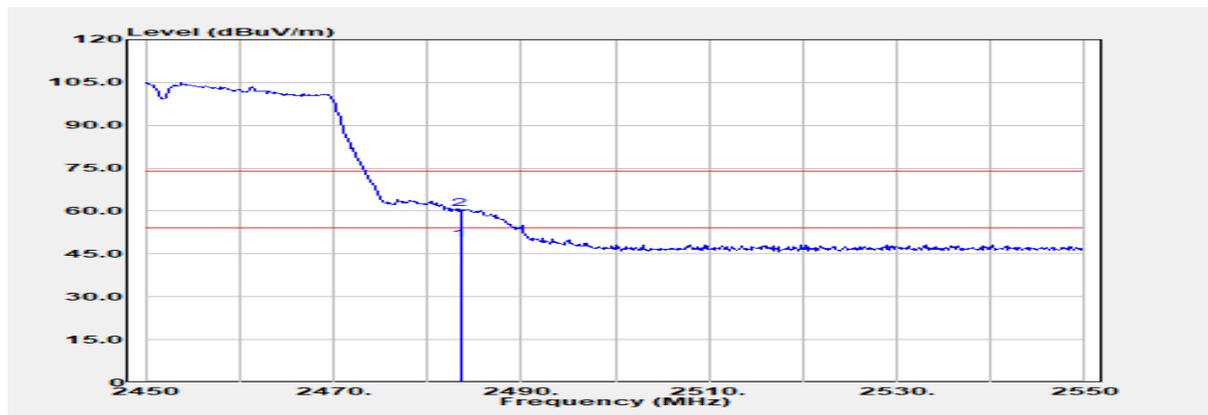
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	45.76	4.04	49.80	54.00	-4.20
2483.500	Peak	55.85	4.04	59.88	74.00	-14.12
2483.814	Average	45.37	4.03	49.40	54.00	-4.60
2483.814	Peak	56.72	4.03	60.75	74.00	-13.25

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2452 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 09	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	45.81	4.04	49.85	54.00	-4.15
2483.500	Peak	56.78	4.04	60.81	74.00	-13.19

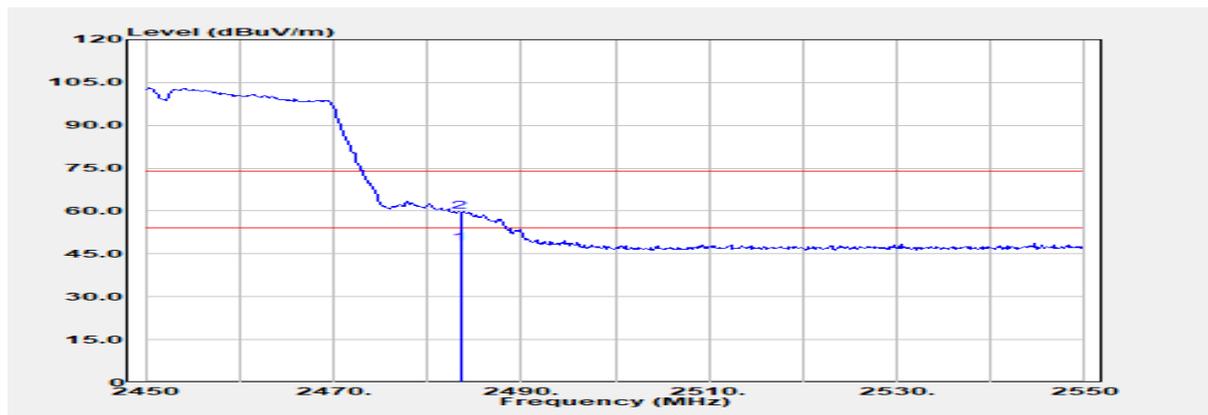
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2452 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 09	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	44.69	4.04	48.73	54.00	-5.27
2483.500	Peak	55.86	4.04	59.90	74.00	-14.10

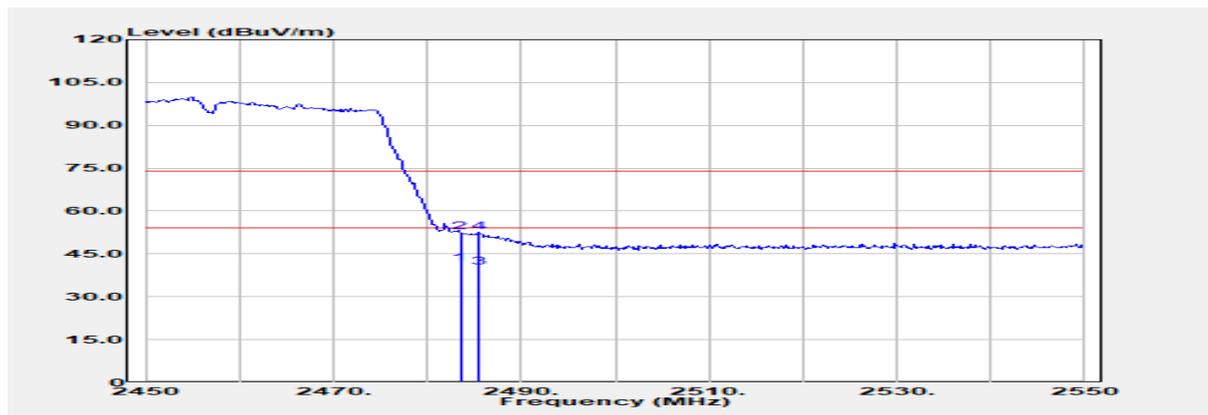
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2457 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 10	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	37.58	4.04	41.62	54.00	-12.38
2483.500	Peak	48.50	4.04	52.53	74.00	-21.47
2485.577	Average	36.30	4.02	40.32	54.00	-13.68
2485.577	Peak	48.66	4.02	52.68	74.00	-21.32

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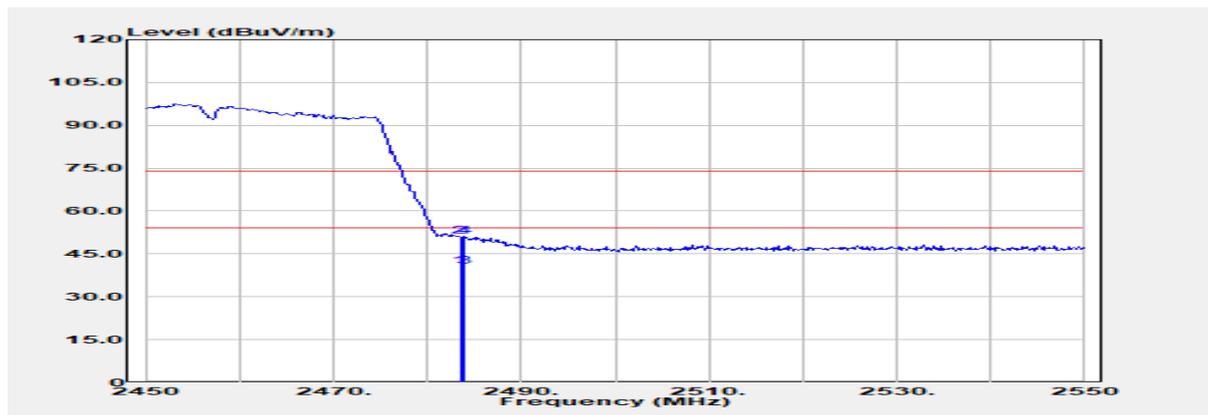
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Report Number :E2/2021/10103  
Operation Mode :802.11n40  
Test Frequency :2457 MHz  
Test Mode :BE CH 10  
EUT Pol :E2 Plane

Test Site :966 Chamber C  
Test Date :2021-03-30  
Temp./Humi. :22.1/62  
Antenna Pol. :Vertical  
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	36.60	4.04	40.64	54.00	-13.36
2483.500	Peak	46.96	4.04	51.00	74.00	-23.00
2483.814	Average	36.45	4.03	40.48	54.00	-13.52
2483.814	Peak	47.18	4.03	51.21	74.00	-22.79

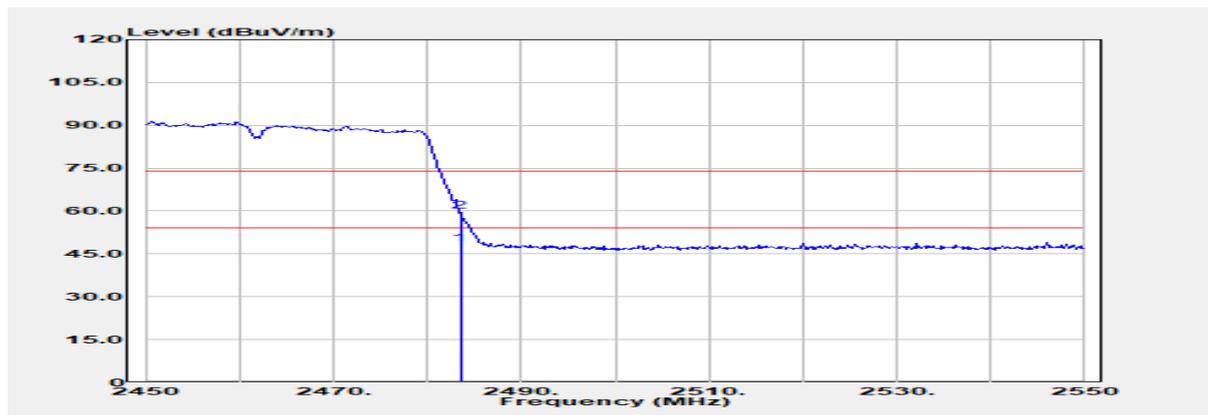
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2462 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 11	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	44.51	4.04	48.55	54.00	-5.45
2483.500	Peak	55.89	4.04	59.93	74.00	-14.07

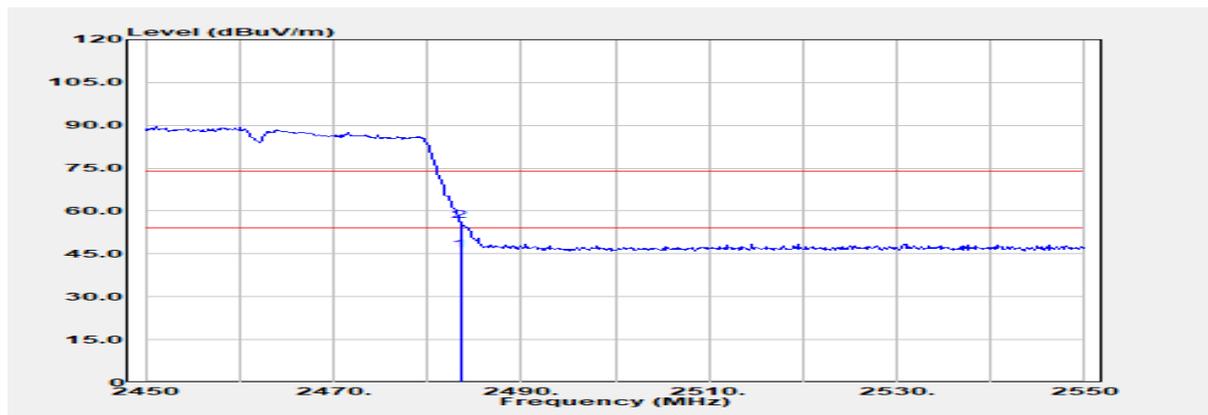
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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11n40	Test Date	:2021-03-30
Test Frequency	:2462 MHz	Temp./Humi.	:22.1/62
Test Mode	:BE CH 11	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
2483.500	Average	42.34	4.04	46.38	54.00	-7.62
2483.500	Peak	52.60	4.04	56.63	74.00	-17.37

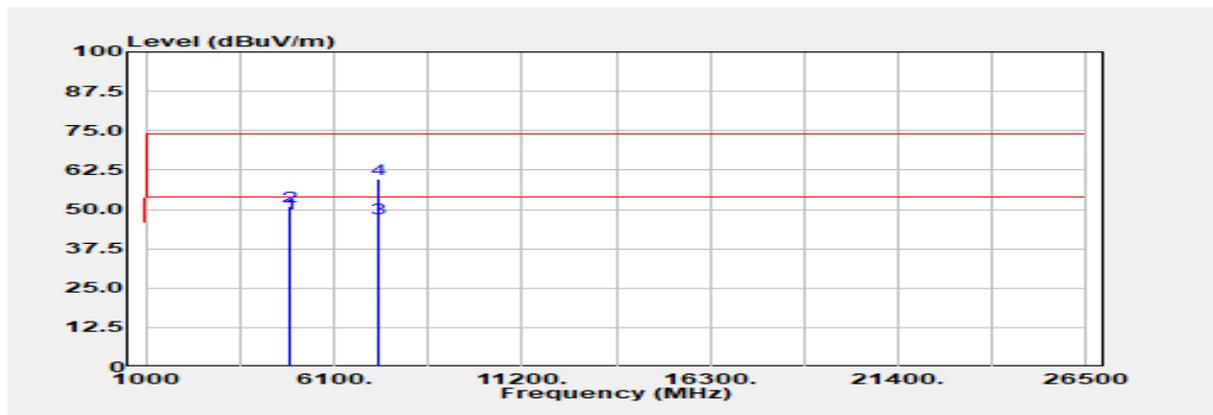
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**7.7.2 Worst-Case Emission:**

Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2437 MHz	Temp./Humi.	:24.1/59
Test Mode	:TX CH MID	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



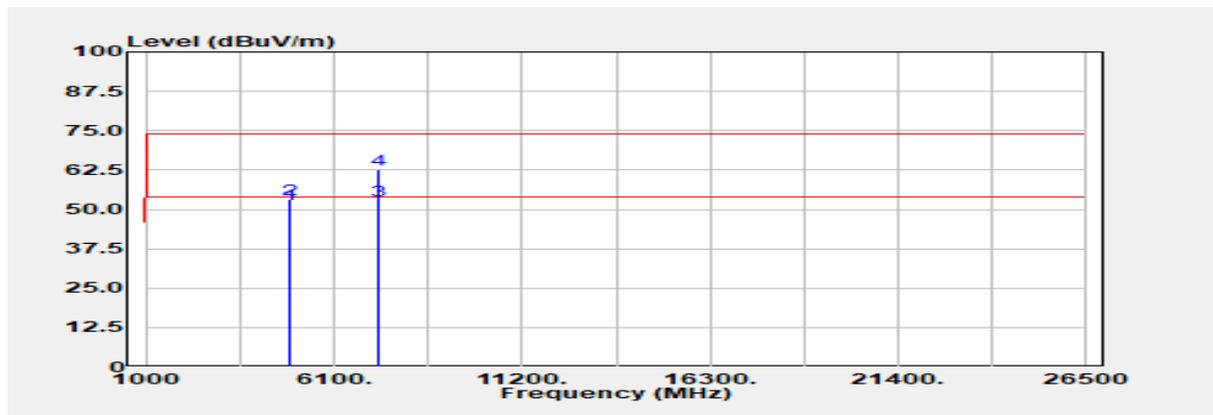
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	38.47	10.38	48.85	54.00	-5.15
4874.000	Peak	40.72	10.38	51.09	74.00	-22.91
7311.000	Average	29.36	17.97	47.33	54.00	-6.67
7311.000	Peak	41.82	17.97	59.79	74.00	-14.21

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Report Number	:E2/2021/10103	Test Site	:966 Chamber C
Operation Mode	:802.11b	Test Date	:2021-03-29
Test Frequency	:2437 MHz	Temp./Humi.	:24.1/59
Test Mode	:TX CH MID	Antenna Pol.	:Horizontal
EUT Pol	:E2 Plane	Engineer	:Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4874.000	Average	41.21	10.38	51.59	54.00	-2.41
4874.000	Peak	42.84	10.38	53.22	74.00	-20.78
7311.000	Average	32.81	17.97	50.78	54.00	-3.22
7311.000	Peak	44.49	17.97	62.46	74.00	-11.54

~ End of Report ~

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