

ELECTROMAGNETIC EMISSIONS COMPLIANCE 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)

Product Name: Notebook Computer

Brand Name: acer

FCC Model No.: N20Q10

IC Model No.: R722T

Model Difference: N/A

Report Number: E2/2021/A0060

FCC ID HLZ-QCNFA324

IC: 1754F-QCNFA324

Issue Date: Nov.17,2021

Date of Test: Oct.12,2021 ~ Oct.20,2021

Date of EUT Received: Oct.08,2021

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, ISSED RSS-247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2021/A0060	Rev.00	Original.	Nov.17,2021	Viola Su	-

Note:

- 1、The remark "***" indicates modification of the report upon requests from certification body.
- 2、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 of Host:	Notebook Computer
Brand Name of Host:	<i>acer</i>
Model No. of FCC Host:	N20Q10
Model No. of IC Host:	R722T
Hardware Version:	N/A
Software Version:	4.0.00172.0
Model No. of BT/WLAN Module:	QCNFA324
Scope:	QCNFA324 INSTALLED IN Notebook Computer
Class II & Class IV Permissive change:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.
EUT Series No.:	N8AZCWW0011362465B7600
Power Supply:	11.55Vdc from Rechargeable Lithium Ion Battery Pack 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter

1.2 RF Specification

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 – 300.0Mbps
	802.11 ac_20MHz:6.5 – 173.3Mbps
	802.11 ac_40MHz:13.5 – 400.0Mbps

1.3 Module Report

Test Lab	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory.
Report Number	RF140808E04

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1.4 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Mode	Main/Aux	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	Wistron NeWeb Corp.	Pico (ZDGB) C Build	Open Mode	Main	2412~2472	2.04
				Aux	2412~2472	1.08
			Tablet Mode	Main	2412~2472	1.13
				Aux	2412~2472	-0.66

Note:

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

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1.5 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

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indica- tion where measurements occurred in specific test site and address.				

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 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 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Fig. 2-2 Radiated Setup

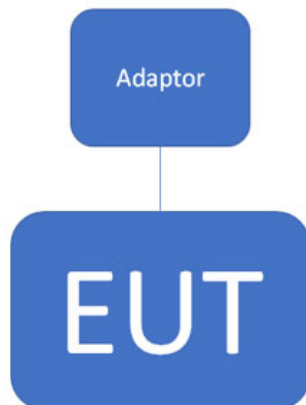


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Version
1.	QRCT	N/A	N/A	N/A	4.0.00161.0
2.	Adapter	Delta	ADP-45HG	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§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

11 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

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

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
☒ 802.11 b	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 2TX
☒ 802.11 g	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ 2TX
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☒ MIMO
☐ 802.11 ax	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.3 Radiated Emission Test:

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

5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Peak Output Power	+/- 1 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

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

Note:

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

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6 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

6.1 Standard Applicable

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

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

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

Note:

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

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SGS Taiwan Ltd. No.134, WuKungRoad, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路

6.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
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	N9010A	MY57120200	03/22/2021	03/21/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM- 7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF17	11/19/2020	11/18/2021
Lowpass Filter	Woken	EWT-56-0019	RF173	11/19/2020	11/18/2021
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021

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

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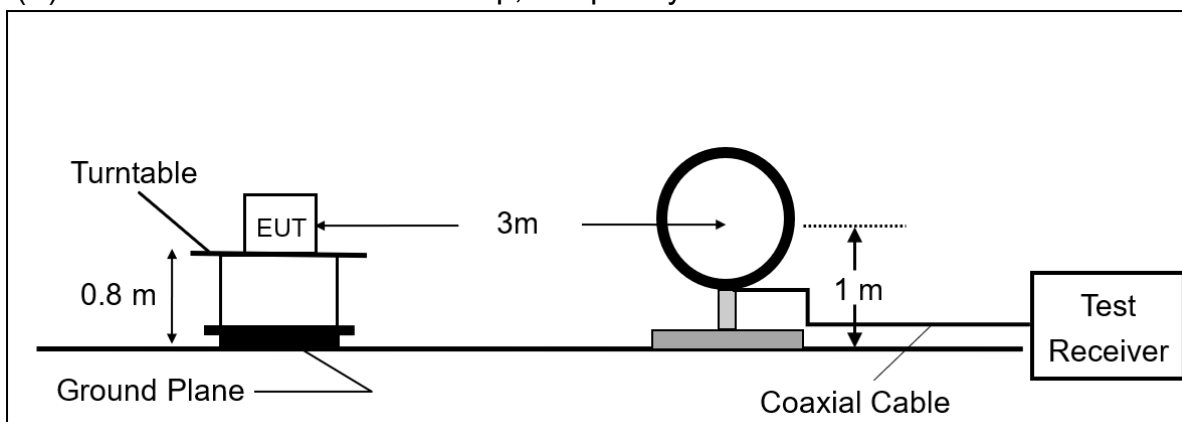
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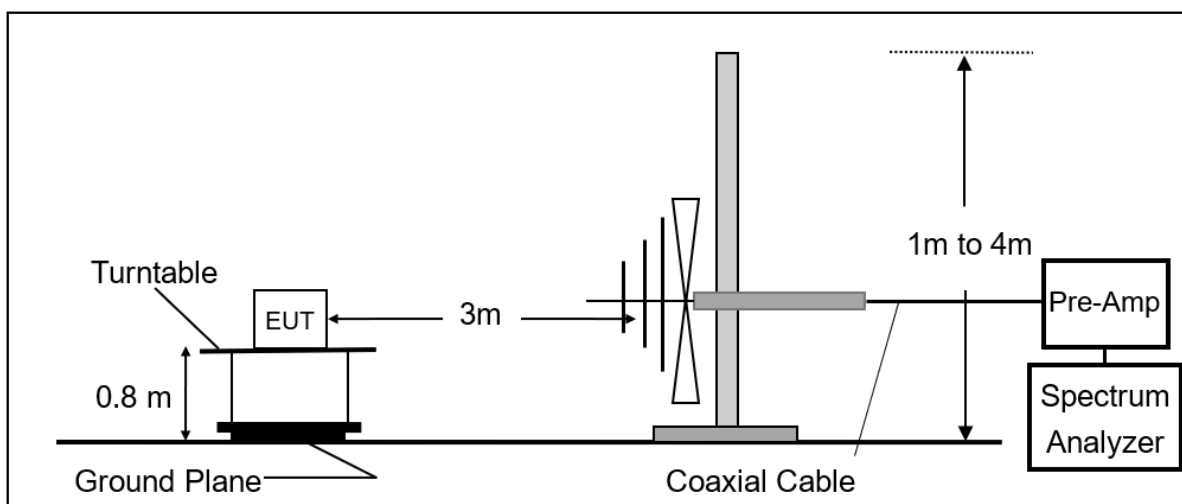
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6.3 Test SET-UP

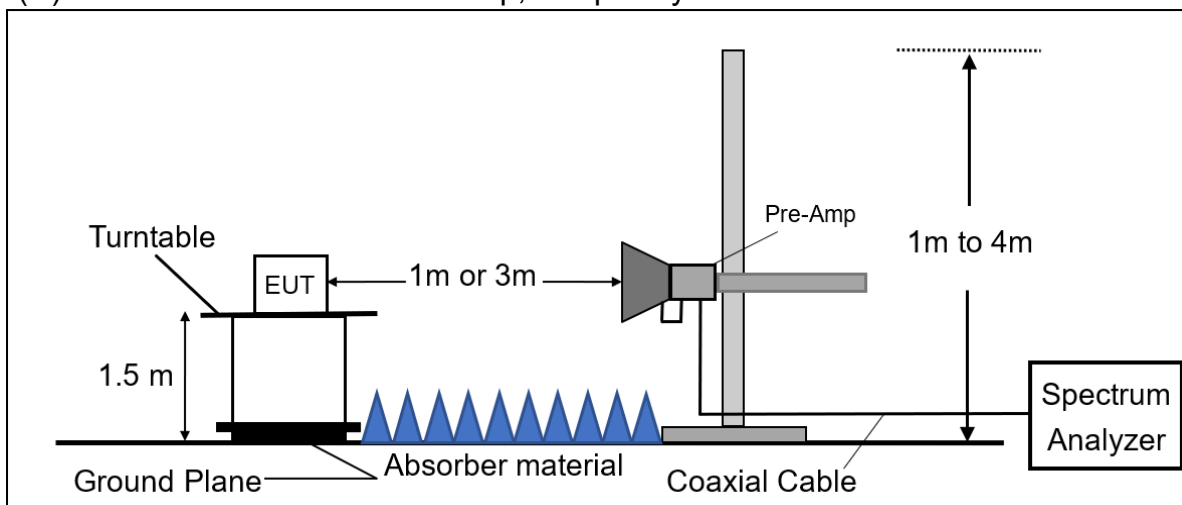
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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6.4 Measurement Procedure

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

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6.5 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 $20 \cdot \log(\mu V/m)$

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

6.6 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.

6.7 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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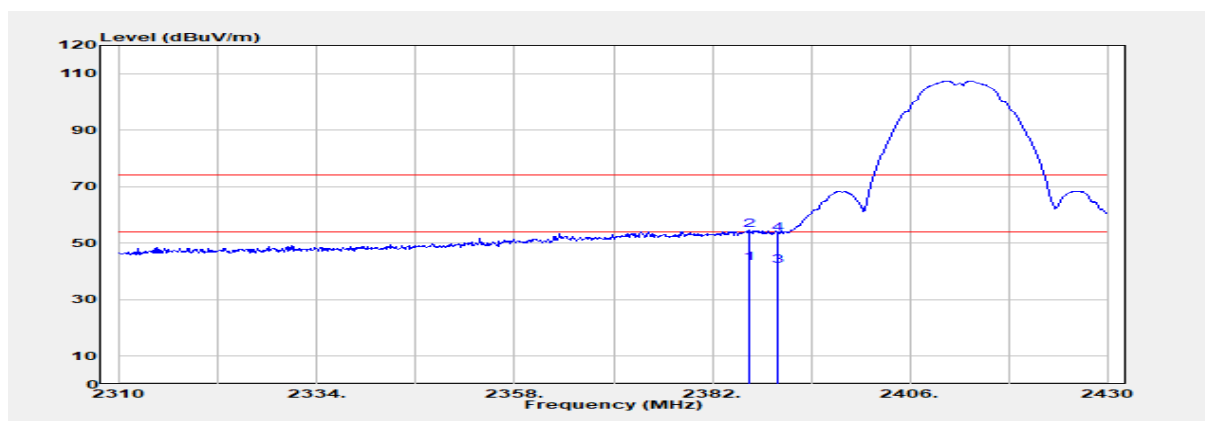
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6.7.1 Radiated Band Edge Measurement Result

Report Number :E2/2021/A0060
Operation Mode :802.11b
Test Frequency :2412 MHz
Test Mode :BE CH LOW
EUT Pol :NB Plane

Test Site :SAC D
Test Date :2021-10-20
Temp./Humi. :21.3/67
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.440	Average	50.56	-7.78	42.77	54.00	-11.23
2386.440	Peak	62.35	-7.78	54.57	74.00	-19.43
2390.000	Average	49.81	-7.89	41.92	54.00	-12.08
2390.000	Peak	61.14	-7.89	53.25	74.00	-20.75

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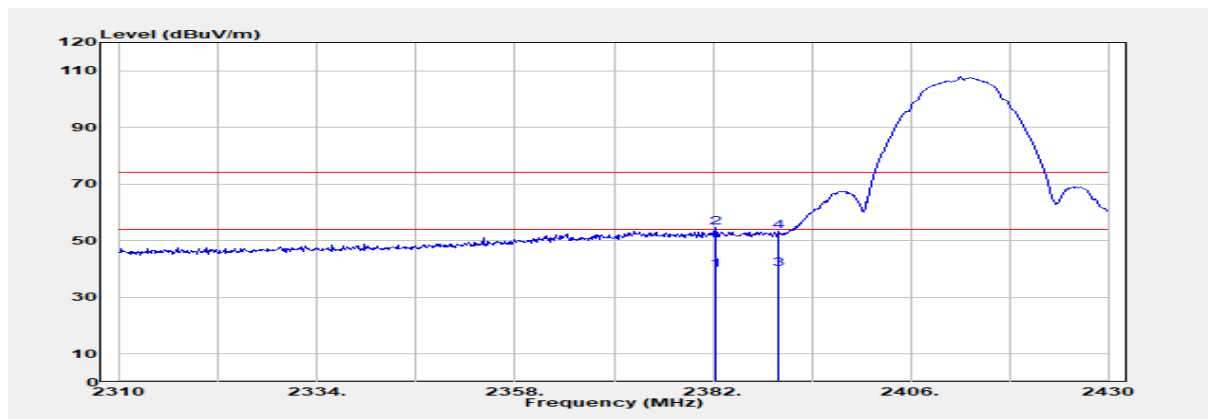
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Report Number :E2/2021/A0060
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2382.240	Average	47.40	-7.65	39.75	54.00	-14.25
2382.240	Peak	62.20	-7.65	54.55	74.00	-19.45
2390.000	Average	47.96	-7.89	40.07	54.00	-13.93
2390.000	Peak	61.18	-7.89	53.29	74.00	-20.71

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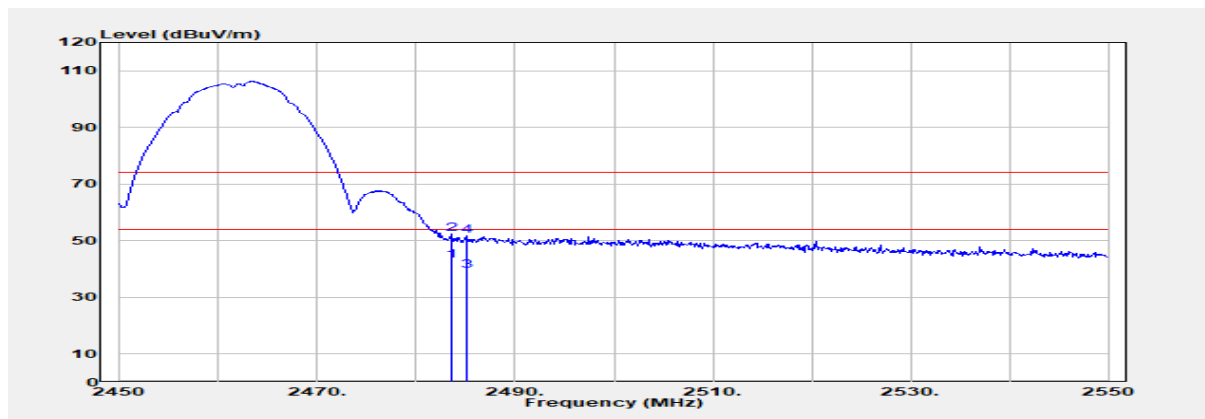
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Report Number :E2/2021/A0060
 Operation Mode :802.11b
 Test Frequency :2462MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.24	-8.15	43.09	54.00	-10.91
2483.500	Peak	60.37	-8.15	52.22	74.00	-21.78
2485.100	Average	47.48	-8.16	39.32	54.00	-14.68
2485.100	Peak	59.76	-8.16	51.60	74.00	-22.40

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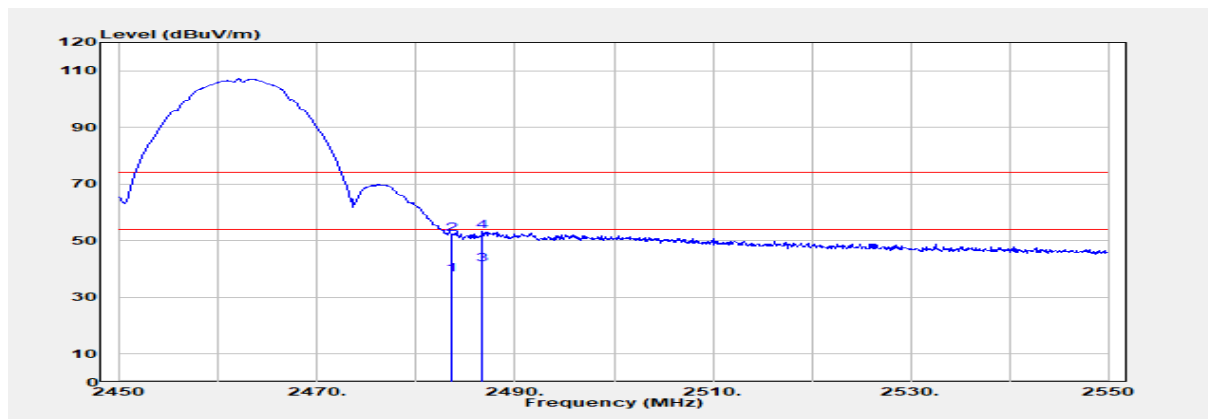
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Report Number :E2/2021/A0060
 Operation Mode :802.11b
 Test Frequency :2462MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.14	-8.15	37.98	54.00	-16.02
2483.500	Peak	60.66	-8.15	52.51	74.00	-21.49
2486.700	Average	49.71	-8.16	41.55	54.00	-12.45
2486.700	Peak	61.62	-8.16	53.46	74.00	-20.54

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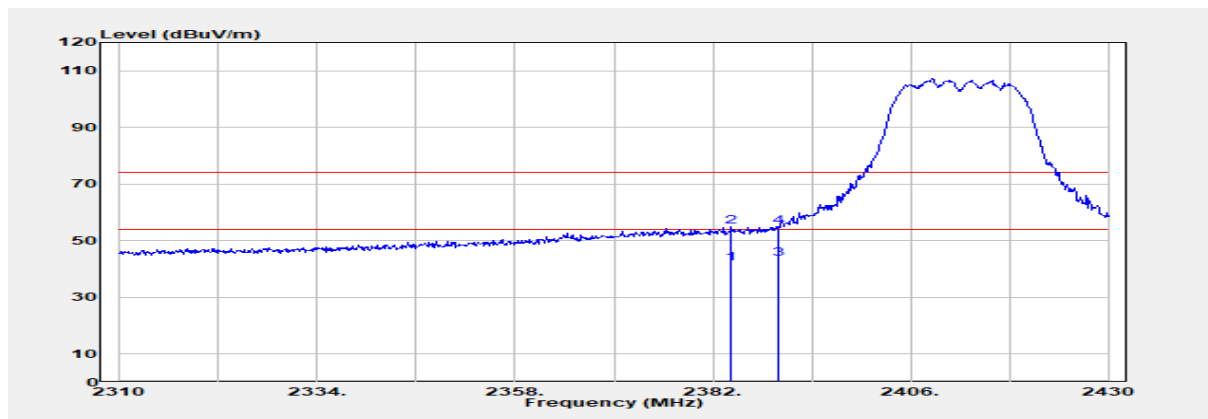
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Report Number :E2/2021/A0060
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2384.280	Average	49.79	-7.72	42.08	54.00	-11.92
2384.280	Peak	62.80	-7.72	55.08	74.00	-18.92
2390.000	Average	51.53	-7.89	43.64	54.00	-10.36
2390.000	Peak	62.70	-7.89	54.82	74.00	-19.18

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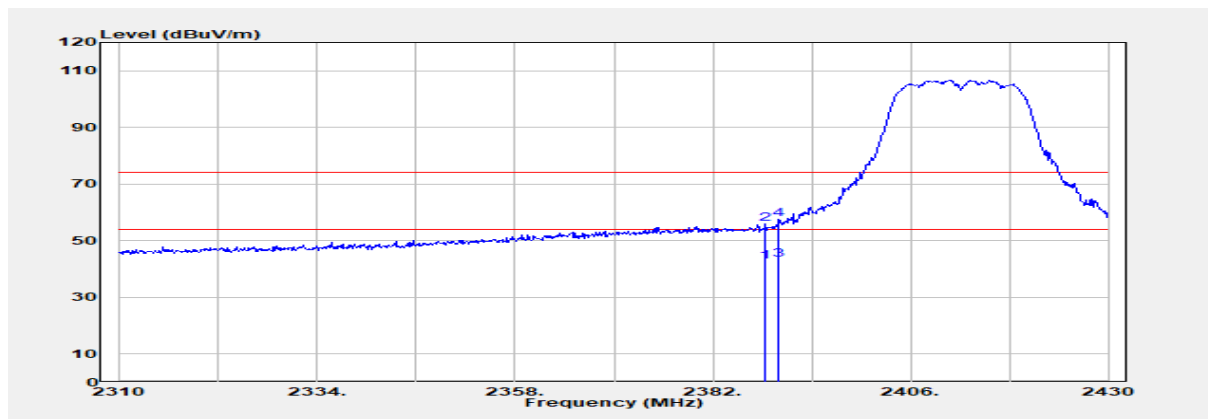
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Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.360	Average	50.36	-7.84	42.52	54.00	-11.48
2388.360	Peak	63.82	-7.84	55.98	74.00	-18.02
2390.000	Average	51.28	-7.89	43.40	54.00	-10.60
2390.000	Peak	65.40	-7.89	57.51	74.00	-16.49

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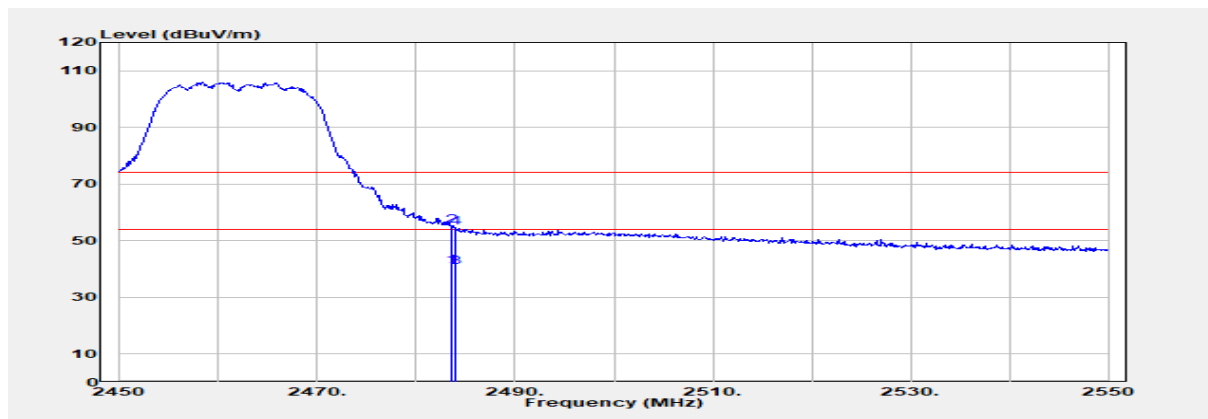
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Report Number :E2/2021/A0060
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	48.99	-8.15	40.83	54.00	-13.17
2483.500	Peak	63.60	-8.15	55.44	74.00	-18.56
2484.000	Average	48.74	-8.15	40.59	54.00	-13.41
2484.000	Peak	62.79	-8.15	54.64	74.00	-19.36

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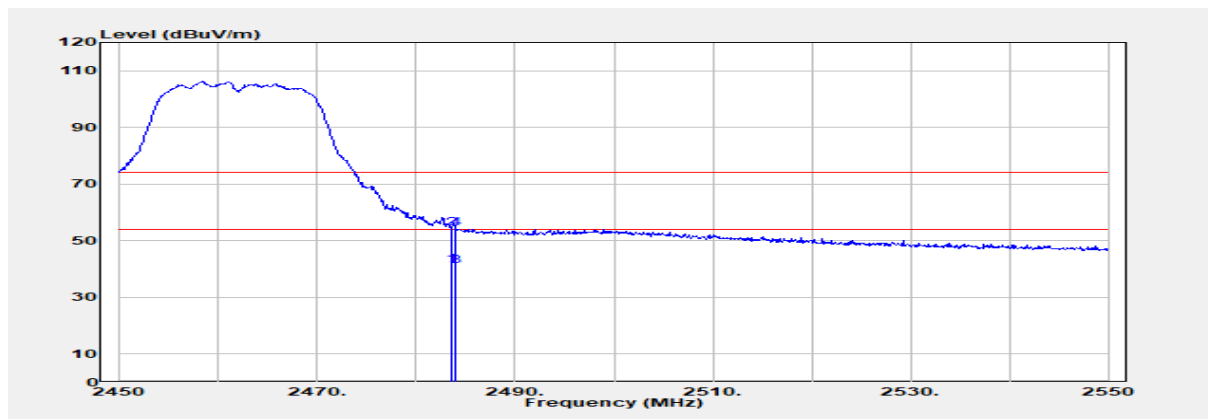
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Report Number :E2/2021/A0060
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	49.33	-8.15	41.18	54.00	-12.82
2483.500	Peak	62.53	-8.15	54.38	74.00	-19.62
2484.000	Average	49.03	-8.15	40.88	54.00	-13.12
2484.000	Peak	62.42	-8.15	54.27	74.00	-19.73

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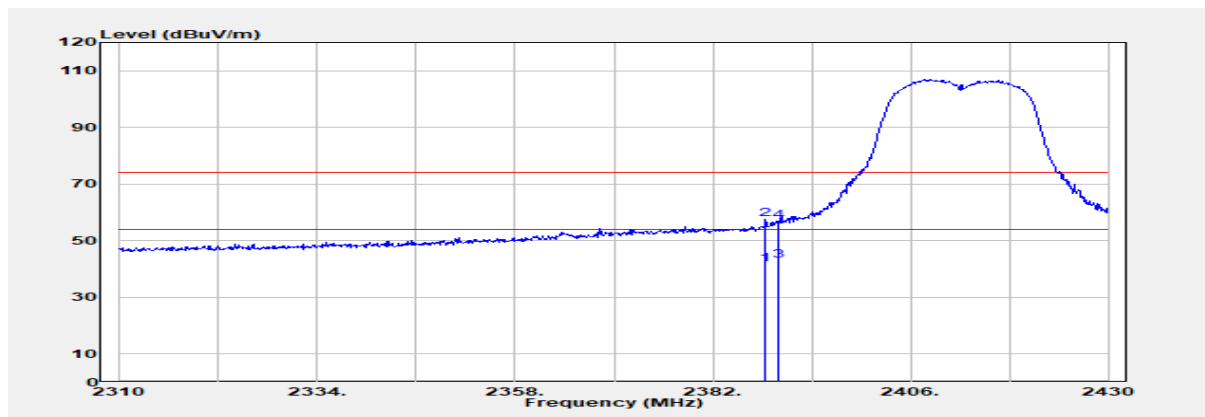
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.360	Average	49.57	-7.84	41.73	54.00	-12.27
2388.360	Peak	65.25	-7.84	57.42	74.00	-16.58
2390.000	Average	50.88	-7.89	42.99	54.00	-11.01
2390.000	Peak	64.82	-7.89	56.93	74.00	-17.07

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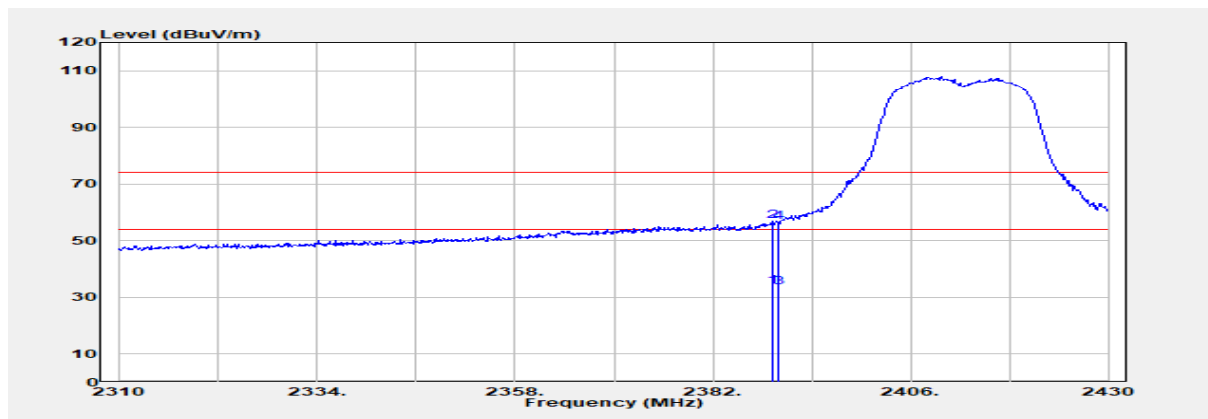
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.200	Average	41.57	-7.86	33.71	54.00	-20.29
2389.200	Peak	64.76	-7.86	56.89	74.00	-17.11
2390.000	Average	41.46	-7.89	33.58	54.00	-20.42
2390.000	Peak	64.49	-7.89	56.60	74.00	-17.40

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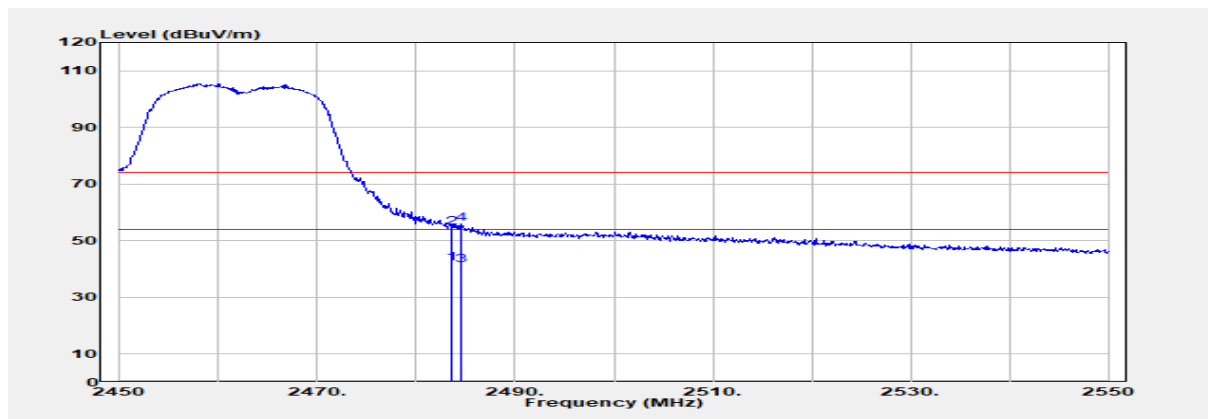
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.09	-8.15	41.94	54.00	-12.06
2483.500	Peak	62.71	-8.15	54.56	74.00	-19.44
2484.500	Average	49.48	-8.15	41.32	54.00	-12.68
2484.500	Peak	64.06	-8.15	55.91	74.00	-18.09

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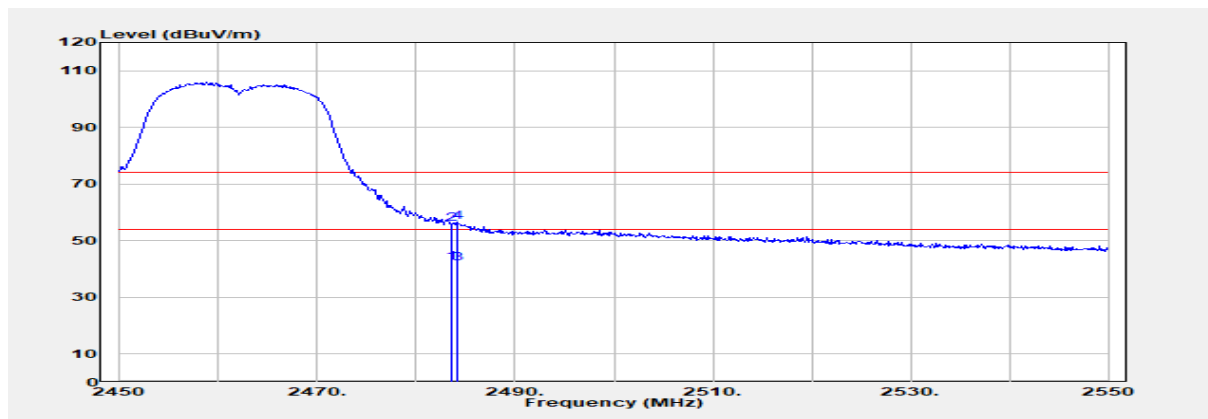
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.43	-8.15	42.27	54.00	-11.73
2483.500	Peak	63.98	-8.15	55.83	74.00	-18.17
2484.100	Average	49.97	-8.15	41.81	54.00	-12.19
2484.100	Peak	64.87	-8.15	56.71	74.00	-17.29

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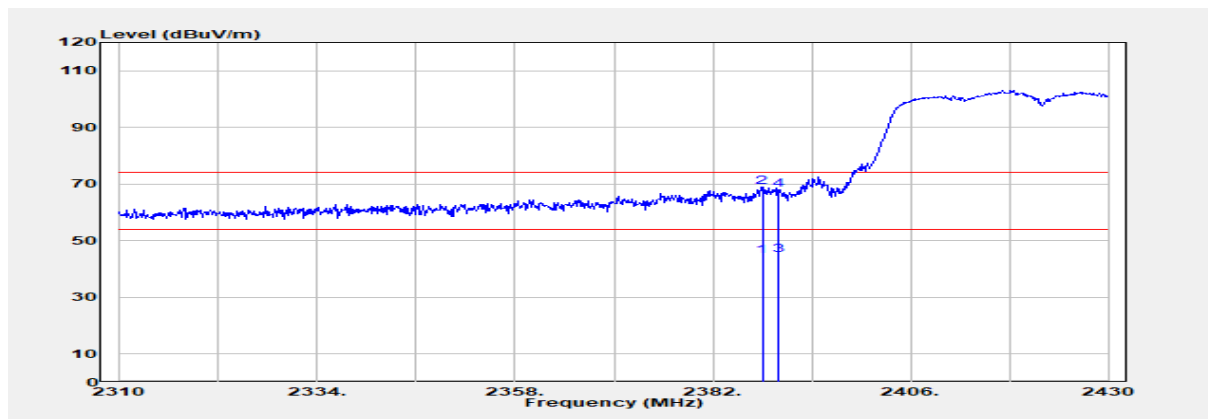
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.000	Average	52.41	-7.83	44.58	54.00	-9.42
2388.000	Peak	76.81	-7.83	68.98	74.00	-5.02
2390.000	Average	52.92	-7.89	45.03	54.00	-8.97
2390.000	Peak	75.83	-7.89	67.94	74.00	-6.06

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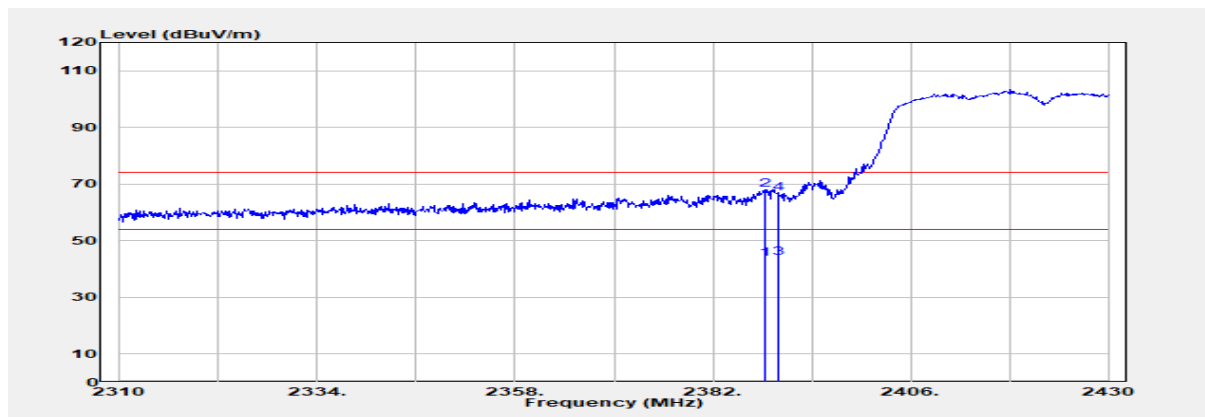
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac40
 Test Frequency :2422 MHz
 Test Mode :BE CH LOW
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.240	Average	51.37	-7.83	43.54	54.00	-10.46
2388.240	Peak	75.75	-7.83	67.92	74.00	-6.08
2390.000	Average	51.79	-7.89	43.90	54.00	-10.10
2390.000	Peak	74.41	-7.89	66.52	74.00	-7.48

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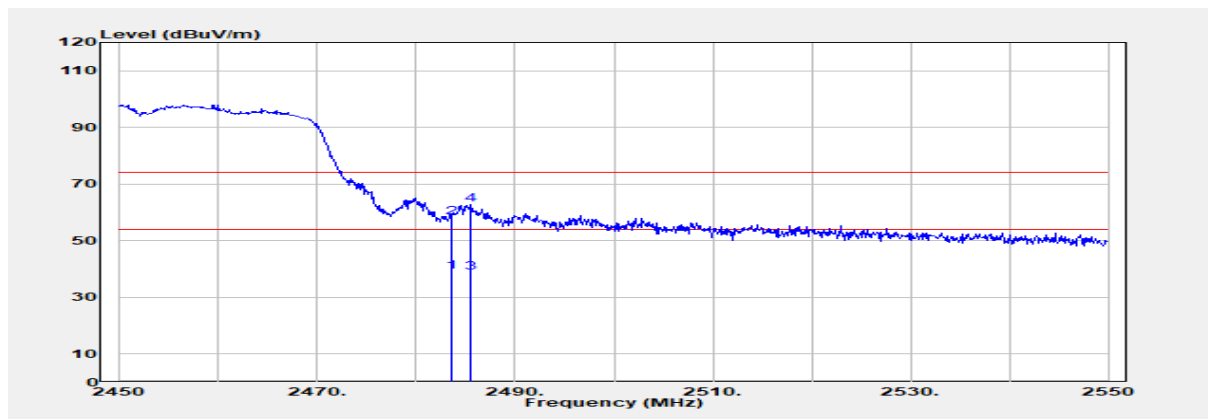
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Vertical
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	47.03	-8.15	38.87	54.00	-15.13
2483.500	Peak	66.33	-8.15	58.17	74.00	-15.83
2485.400	Average	46.92	-8.16	38.76	54.00	-15.24
2485.400	Peak	71.06	-8.16	62.90	74.00	-11.10

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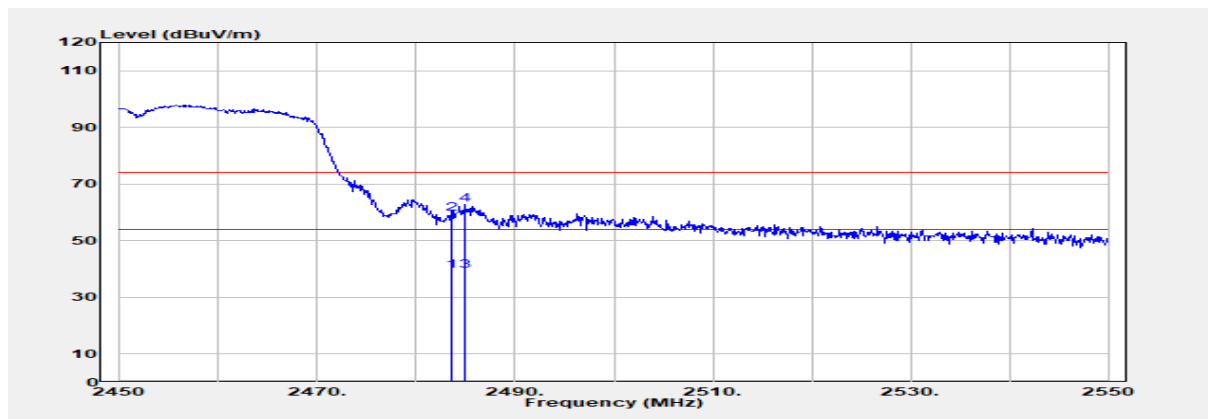
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Report Number :E2/2021/A0060
 Operation Mode :802.11ac40
 Test Frequency :2452 MHz
 Test Mode :BE CH HIGH
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	47.45	-8.15	39.29	54.00	-14.71
2483.500	Peak	67.58	-8.15	59.42	74.00	-14.58
2485.000	Average	47.41	-8.16	39.26	54.00	-14.74
2485.000	Peak	70.76	-8.16	62.61	74.00	-11.39

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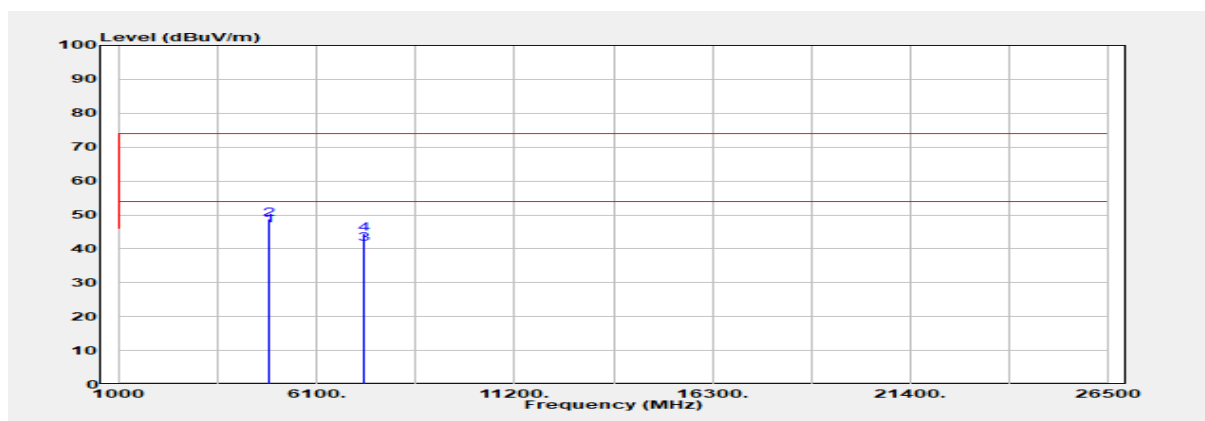
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6.7.2 Above 1GHz Emission:

Report Number :E2/2021/A0060
Operation Mode :802.11b
Test Frequency :2437 MHz
Test Mode :TX CH MID
EUT Pol :NB Plane

Test Site :SAC D
Test Date :2021-10-20
Temp./Humi. :21.3/67
Antenna Pol. :Vertical
Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	49.87	-3.05	46.82	54.00	-7.18
4874.000	Peak	51.83	-3.05	48.78	74.00	-25.22
7311.000	Average	37.55	3.91	41.46	54.00	-12.54
7311.000	Peak	40.67	3.91	44.58	74.00	-29.42

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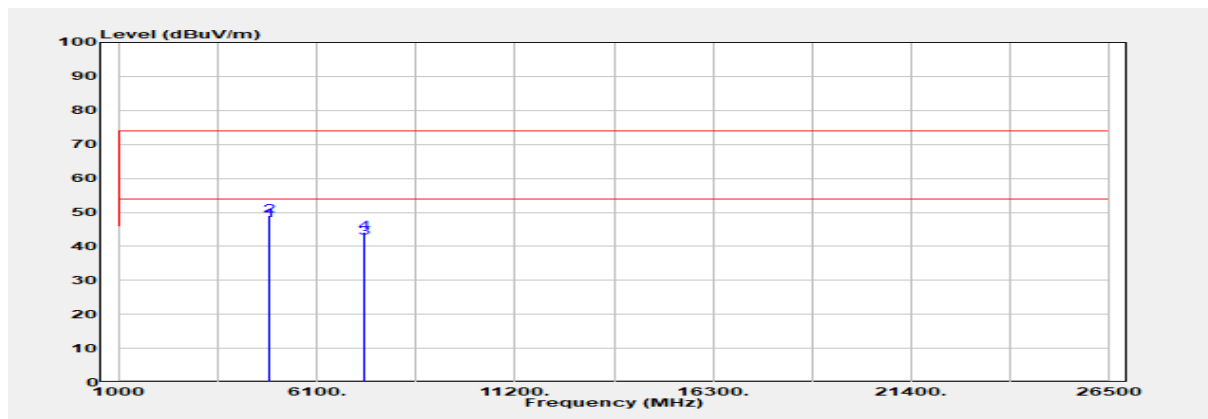
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Report Number :E2/2021/A0060
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :NB Plane

Test Site :SAC D
 Test Date :2021-10-20
 Temp./Humi. :21.3/67
 Antenna Pol. :Horizontal
 Engineer :Jack Tseng



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	50.87	-3.05	47.82	54.00	-6.18
4874.000	Peak	52.09	-3.05	49.03	74.00	-24.97
7311.000	Average	38.66	3.91	42.57	54.00	-11.43
7311.000	Peak	40.23	3.91	44.14	74.00	-29.86

~ End of 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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