

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Taijet Bointec Co. LTD.
4F,#114,Zhouzi St., NeiHu-Taipei 11493,Taiwan

Product Name: DGF109A (a.k.a. DGF104A)

Brand Name: Bointec

Model No.: DGF109A, DGF104A

Model Difference: Marketing Different

Report Number: ER/2021/90005

FCC ID 2AMAF-DGF109A104A

IC: 23942-DGF109A104A

Issue Date: November 30, 2021

Date of Test: October 18, 2021 ~ November 3, 2021

Date of EUT Received: September 8, 2021

Approved By

Blue Yang

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
ER/2021/90005	00	Original.	November 30, 2021	Yuri Tsai

Note:

- 1、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	DGF109A (a.k.a. DGF104A)
Brand Name:	Bointec
Model No.:	DGF109A, DGF104A
Model Difference:	Marketing Different
Hardware Version:	v01
Firmware Version:	v01
EUT Series No.:	Conducted: 20A7870094E6 Radiated: 20A7870094E6
Power Supply:	3.3V

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	25.03	DSSS
802.11g	2412~2462	11	26.10	OFDM
802.11n20	2412~2462	11	26.35	OFDM
802.11n40	2422~2452	7	18.48	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		64QAM, 16QAM, QPSK, BPSK for OFDM		
Data Rate:		802.11 b: 1/2/5.5/11 Mbps		
		802.11 g: 6/9/12/18/24/36/48/54 Mbps		
		802.11 n_20MHz:6.5 - 144.4Mbps		
		802.11 n_40MHz:13.5 - 300Mbps		

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WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Modulation Technology
802.11b	2412~2462	11	25.03	29.65	DSSS
802.11g	2412~2462	11	26.10	29.20	OFDM
802.11n20	2412~2462	11	26.35	28.83	OFDM
802.11n40	2422~2452	7	18.48	16.74	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		64QAM, 16QAM, QPSK, BPSK for OFDM			
Data Rate:		802.11 b: 1/2/5.5/11 Mbps			
		802.11 g: 6/9/12/18/24/36/48/54 Mbps			
		802.11 n_20MHz:6.5 - 144.4Mbps			
		802.11 n_40MHz:13.5 - 300Mbps			

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1.3 Antenna Designation

Antenna Type	Brand	Model No.	Freq.(MHz)	Peak Gain (dBi)	Direction Gain(dBi)
WiFi Antenna	INVAX/Cortec	NB1363-B310BX	2412-2462	3.62	6.63
WiFi Antenna	Bointec	TWRN-9161201-102	2412-2462	2.9	
WiFi Antenna	Bointec	TWRN-9161202-101	2412-2462	1.73	
WiFi Antenna	Cortec	AN2450-5706RS	2412-2462	2.11	
WiFi Antenna	Maglayer	EDA-8709-25GR2-A20-TN	2412-2462	2.03	
WiFi Antenna	Bointec	TWRN-9161201-191	2412-2462	2.21	
WiFi Antenna	Bointec	TWRN-9161202-171	2412-2462	2.43	
WiFi Antenna	Bointec	TWRN-9113203-151	2412-2462	2.6	
WiFi Antenna	Bointec	TWRN-91G3203-151	2412-2462	2.6	
WiFi Antenna	Bointec	TWRN-9113204-151	2412-2462	0.9	
WiFi Antenna	Bointec	TWRN-91G3204-151	2412-2462	0.9	
WiFi Antenna	Bointec	TWRN-91G3203-351	2412-2462	2.6	
WiFi Antenna	Molex	479504012	2412-2462	2.13	
WiFi Antenna	Bointec	TWRN-91G3206-351	2412-2462	2.99	

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen, Issue 5 (Amendment 2, February 2021)

ANSI C63.10:2013

1.5 Test Facility

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

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

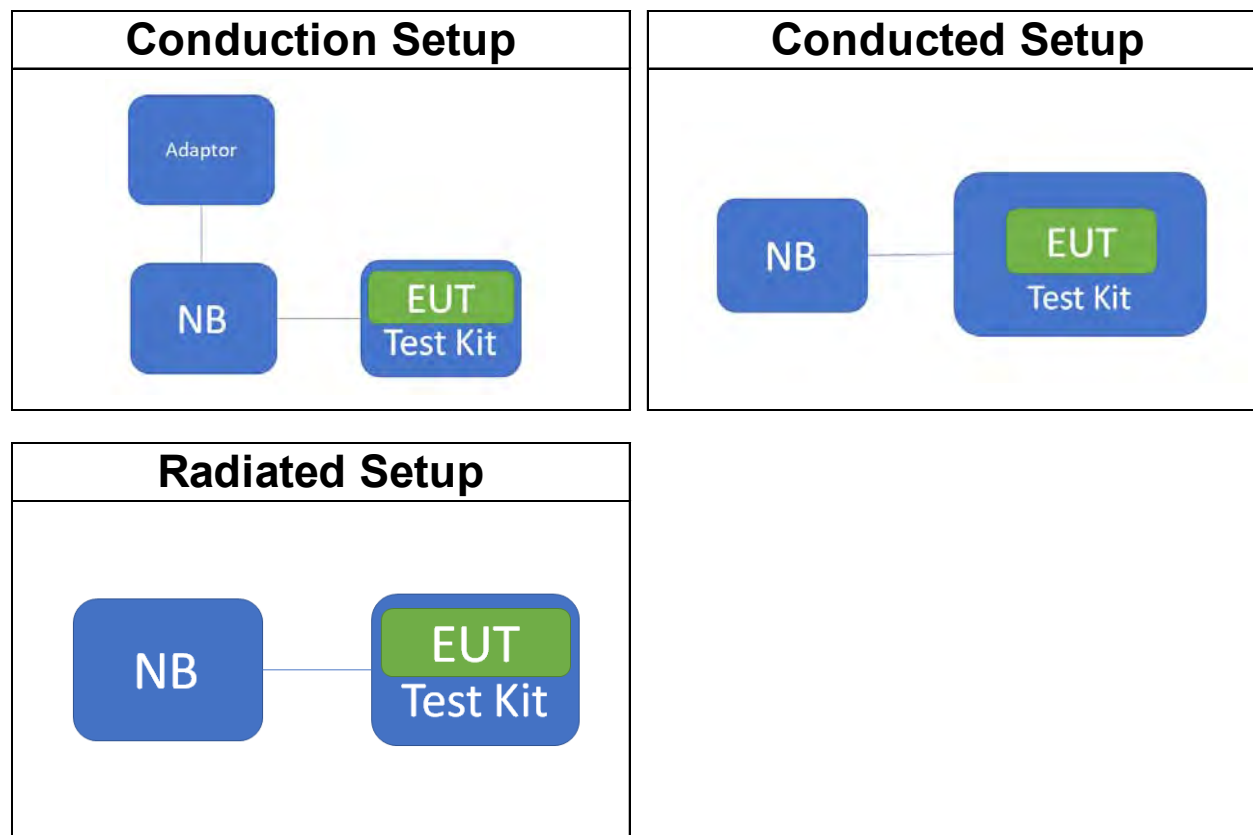
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	R9-WGNK5 13/01	N/A	N/A
Adapter	Lenovo	92P1158	N/A	N/A	N/A

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	R9-WGNK5	N/A	N/A

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L430	R9-WGNK5 13/01	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operatin Frequencies

Modulation of 20MHz nominal bandwidth

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

Modulation of 40MHz nominal bandwidth

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

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4.2 The Worst Test Modes and Channel Details

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

The gevin UE is pre-scanned among below modes.

Modulation		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
v	802.11 b	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 g	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3		SISO	v	MIMO
	802.11 ax		Ch0		Ch1		Ch2		Ch3		SISO		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.

Conducted					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,3,4,5,6,7,8,9,10,11	DSSS	1	2TX
802.11g	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 9	3,4,5,6,7,8,9	OFDM	MCS8	MIMO

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

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RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,3,4,5,6,7,8,9,10,11	DSSS	1	2TX
802.11g	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 9	3,4,5,6,7,8,9	OFDM	MCS8	MIMO

Note:

The field strength of radiation emission was measured as EUT three orthogonal planes, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested and recorded.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Emission Bandwidth	+/- 1.53 Hz
The Maximum Output Power Measurement	+/- 1 dB
Peak Power Spectral Density Measurement	+/- 1.53 dB
Frequency Stability	+/- 1.53 Hz
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 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2021	04/08/2022
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

Note: N.C.R refers to No calibration required

6.3 EUT Setup

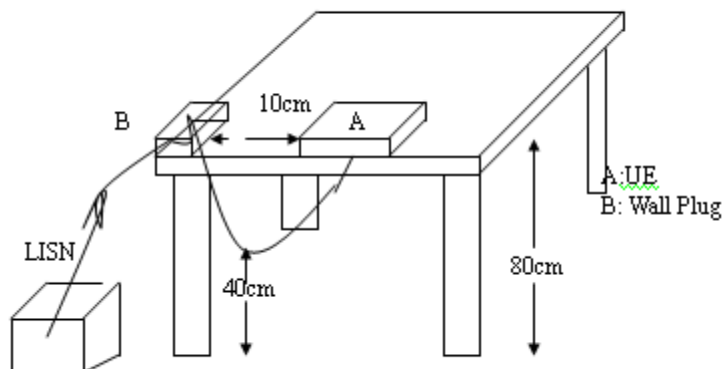
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2021-90005

Test Site :Conduction 1

Test Mode :Operation WLAN2.4G

Test Date :2021-10-28

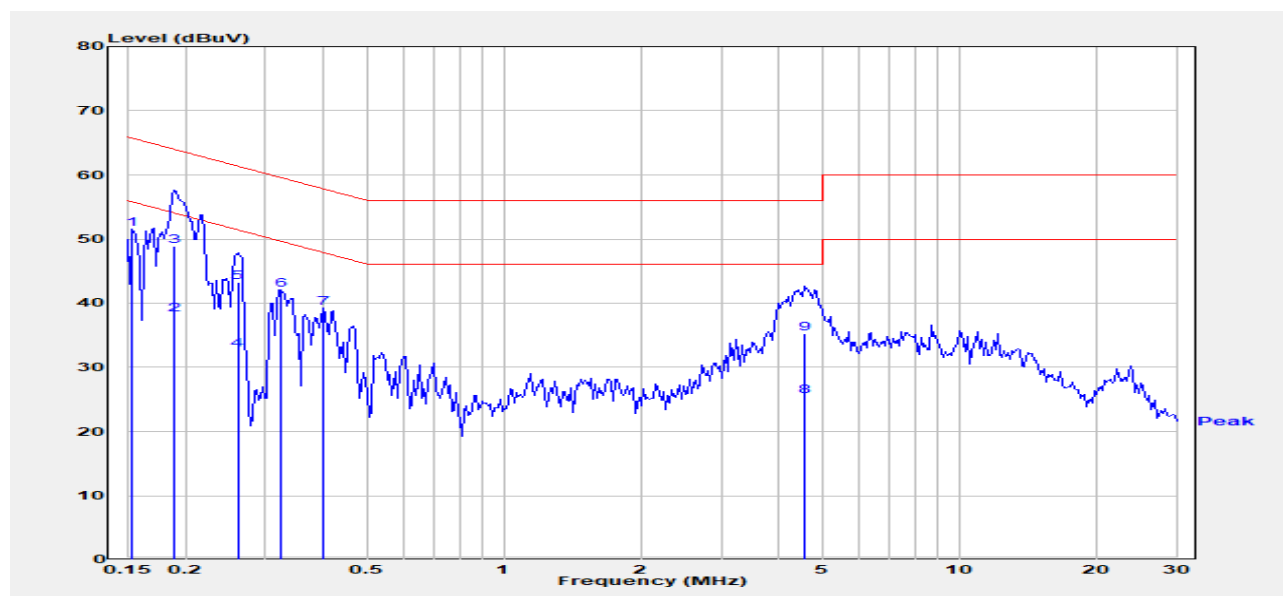
Power :120V/60Hz

Temp./Humi. :24.8/61

Probe :L

Engineer :Nick Lin

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS				
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.153	Peak	49.39	2.12	51.51	65.82	-14.32
0.189	Average	36.11	2.12	38.23	54.06	-15.83
0.189	QP	46.79	2.12	48.91	64.06	-15.15
0.260	Average	30.62	2.12	32.74	51.42	-18.68
0.260	QP	41.09	2.12	43.21	61.42	-18.21
0.325	Peak	40.01	2.12	42.13	59.57	-17.44
0.402	Peak	37.14	2.12	39.26	57.81	-18.56
4.598	Average	22.69	2.72	25.41	46.00	-20.59
4.598	QP	32.51	2.72	35.23	56.00	-20.77

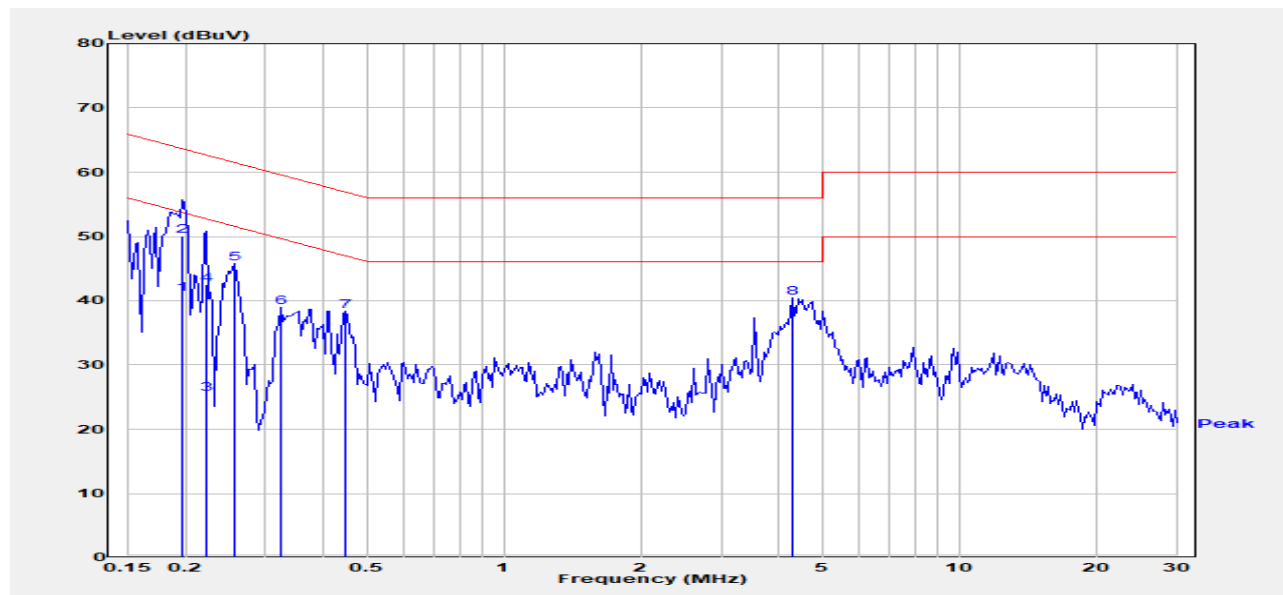
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Report Number :ER-2021-90005
 Test Mode :Operation WLAN2.4G
 Power :120V/60Hz
 Probe :N
 Note: :

Test Site :Conduction 1
 Test Date :2021-10-28
 Temp./Humi. :24.8/61
 Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dB μ V	dB	dB μ V	dB μ V	dB
0.198	Average	38.81	2.29	41.10	53.71	-12.61
0.198	QP	47.72	2.29	50.01	63.71	-13.70
0.222	Average	23.18	2.27	25.45	52.74	-27.29
0.222	QP	40.27	2.27	42.54	62.74	-20.20
0.258	Peak	43.58	2.23	45.81	61.51	-15.70
0.325	Peak	36.84	2.17	39.02	59.57	-20.56
0.447	Peak	36.24	2.12	38.36	56.93	-18.57
4.315	Peak	38.23	2.19	40.42	56.00	-15.58

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

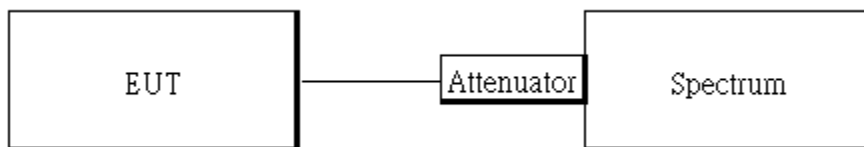
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

Note: N.C.R refers to No calibration required

7.2 Test Set-up



7.3 Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

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7.4 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.12	0.04	0.08	0.01
802.11g	94.68	0.24	0.49	1.00
802.11n_20	94.54	0.24	0.53	1.00
802.11n_40	89.15	0.50	1.08	2.00

7.5 Duty Cycle test plots

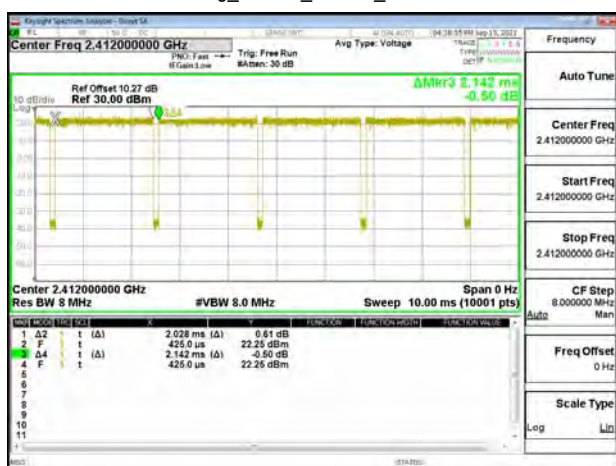
802.11b_20MHz_Chain0_2412MHz



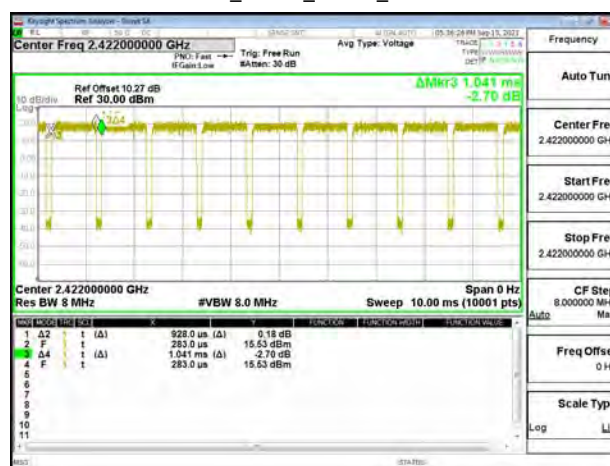
802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2422MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

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

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

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

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit attenuation has been applied in the test results.

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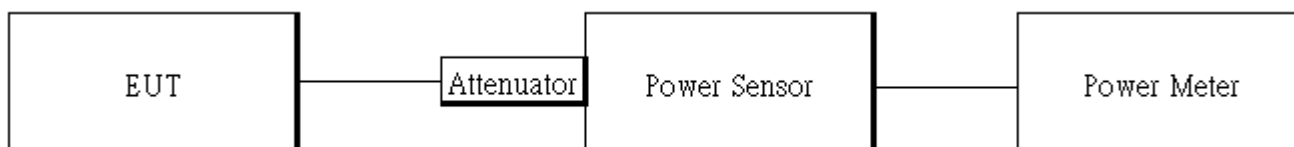
8.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022

Note: N.C.R refers to No calibration required

8.3 Test Set-up

Power Meter:



8.4 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.
5. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.
Cable Loss Offset:10.93

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

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8.5 Measurement Result

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17	19.69	30.00	PASS
2	2417	1	17	19.14	30.00	PASS
3	2422	1	19.5	21.11	30.00	PASS
4	2427	1	20.5	21.85	30.00	PASS
5	2432	1	21	21.66	30.00	PASS
6	2437	1	20.5	22.17	30.00	PASS
7	2442	1	21	21.95	30.00	PASS
8	2447	1	20	21.61	30.00	PASS
9	2452	1	19	21.21	30.00	PASS
10	2457	1	17.5	20.45	30.00	PASS
11	2462	1	17	19.95	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	17	17.27	30.00	PASS
2	2417	1	17	16.94	30.00	PASS
3	2422	1	19.5	18.94	30.00	PASS
4	2427	1	20.5	19.73	30.00	PASS
5	2432	1	21	19.85	30.00	PASS
6	2437	1	20.5	19.93	30.00	PASS
7	2442	1	21	19.88	30.00	PASS
8	2447	1	20	19.46	30.00	PASS
9	2452	1	19	18.82	30.00	PASS
10	2457	1	17.5	17.76	30.00	PASS
11	2462	1	17	17.60	30.00	PASS

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802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16.5	19.87	30.00	PASS
2	2417	1	17	20.08	30.00	PASS
3	2422	1	19.5	21.39	30.00	PASS
4	2427	1	20.5	22.08	30.00	PASS
5	2432	1	21	22.13	30.00	PASS
6	2437	1	20.5	22.26	30.00	PASS
7	2442	1	21	21.97	30.00	PASS
8	2447	1	20	21.33	30.00	PASS
9	2452	1	19	21.10	30.00	PASS
10	2457	1	17.5	20.28	30.00	PASS
11	2462	1	17.5	20.07	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	16.5	17.61	30.00	PASS
2	2417	1	17	17.60	30.00	PASS
3	2422	1	19.5	19.30	30.00	PASS
4	2427	1	20.5	19.89	30.00	PASS
5	2432	1	21	20.00	30.00	PASS
6	2437	1	20.5	19.94	30.00	PASS
7	2442	1	21	19.87	30.00	PASS
8	2447	1	20	19.44	30.00	PASS
9	2452	1	19	18.79	30.00	PASS
10	2457	1	17.5	17.94	30.00	PASS
11	2462	1	17.5	17.54	30.00	PASS

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802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	17	19.72	20.13	22.94	29.37	PASS
2	2417	1	17.5	19.64	20.34	23.01	29.37	PASS
3	2422	1	20	21.31	21.56	24.45	29.37	PASS
4	2427	1	21	21.83	22.21	25.03	29.37	PASS
5	2432	1	21	21.78	22.22	25.02	29.37	PASS
6	2437	1	21	21.73	22.26	25.01	29.37	PASS
7	2442	1	21	21.66	21.78	24.73	29.37	PASS
8	2447	1	20	21.57	21.44	24.52	29.37	PASS
9	2452	1	19	21.03	20.89	23.97	29.37	PASS
10	2457	1	18	20.44	20.53	23.50	29.37	PASS
11	2462	1	17.5	20.34	19.75	23.07	29.37	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	17	17.34	17.78	20.62	29.37	PASS
2	2417	1	17.5	17.25	18.02	20.70	29.37	PASS
3	2422	1	20	19.02	19.50	22.32	29.37	PASS
4	2427	1	21	19.78	20.10	22.99	29.37	PASS
5	2432	1	21	19.90	20.04	23.02	29.37	PASS
6	2437	1	21	19.93	20.01	23.02	29.37	PASS
7	2442	1	21	19.94	19.93	22.99	29.37	PASS
8	2447	1	20	19.49	19.48	22.54	29.37	PASS
9	2452	1	19	18.86	18.90	21.93	29.37	PASS
10	2457	1	18	18.06	18.12	21.14	29.37	PASS
11	2462	1	17.5	18.00	17.52	20.82	29.37	PASS

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802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	16.99	30.00	PASS
2	2417	6	15.5	20.49	30.00	PASS
3	2422	6	16.5	21.55	30.00	PASS
4	2427	6	19	22.48	30.00	PASS
5	2432	6	20.5	22.98	30.00	PASS
6	2437	6	20.5	23.41	30.00	PASS
7	2442	6	21	23.10	30.00	PASS
8	2447	6	19	22.62	30.00	PASS
9	2452	6	17	21.56	30.00	PASS
10	2457	6	14.5	20.52	30.00	PASS
11	2462	6	8	15.38	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	10.59	30.00	PASS
2	2417	6	15.5	14.82	30.00	PASS
3	2422	6	16.5	15.83	30.00	PASS
4	2427	6	19	17.69	30.00	PASS
5	2432	6	20.5	18.78	30.00	PASS
6	2437	6	20.5	19.40	30.00	PASS
7	2442	6	21	19.12	30.00	PASS
8	2447	6	19	18.22	30.00	PASS
9	2452	6	17	16.48	30.00	PASS
10	2457	6	14.5	14.68	30.00	PASS
11	2462	6	8	8.89	30.00	PASS

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802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	17.38	30.00	PASS
2	2417	6	15	20.89	30.00	PASS
3	2422	6	16	21.50	30.00	PASS
4	2427	6	18	22.23	30.00	PASS
5	2432	6	20	22.80	30.00	PASS
6	2437	6	20.5	23.56	30.00	PASS
7	2442	6	21	22.97	30.00	PASS
8	2447	6	19	22.25	30.00	PASS
9	2452	6	16.5	21.41	30.00	PASS
10	2457	6	14.5	20.43	30.00	PASS
11	2462	6	8.5	15.42	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	10	10.89	30.00	PASS
2	2417	6	15	15.58	30.00	PASS
3	2422	6	16	16.31	30.00	PASS
4	2427	6	18	17.94	30.00	PASS
5	2432	6	20	18.87	30.00	PASS
6	2437	6	20.5	19.53	30.00	PASS
7	2442	6	21	19.25	30.00	PASS
8	2447	6	19	18.30	30.00	PASS
9	2452	6	16.5	16.59	30.00	PASS
10	2457	6	14.5	14.72	30.00	PASS
11	2462	6	8.5	8.65	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	10.5	17.12	17.58	20.37	29.37	PASS
2	2417	6	15.5	20.63	21.11	23.89	29.37	PASS
3	2422	6	16.5	21.41	21.70	24.57	29.37	PASS
4	2427	6	19	22.34	22.41	25.39	29.37	PASS
5	2432	6	20.5	22.84	22.79	25.83	29.37	PASS
6	2437	6	22	22.98	23.13	26.07	29.37	PASS
7	2442	6	21	23.22	22.95	26.10	29.37	PASS
8	2447	6	19.5	22.92	22.72	25.83	29.37	PASS
9	2452	6	17	21.97	21.70	24.85	29.37	PASS
10	2457	6	15	20.98	20.70	23.85	29.37	PASS
11	2462	6	8.5	15.97	15.31	18.66	29.37	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	10.5	10.67	11.05	13.91	29.37	PASS
2	2417	6	15.5	14.73	15.70	18.29	29.37	PASS
3	2422	6	16.5	15.61	16.40	19.07	29.37	PASS
4	2427	6	19	17.68	18.17	20.98	29.37	PASS
5	2432	6	20.5	18.68	19.02	21.90	29.37	PASS
6	2437	6	22	19.48	19.55	22.57	29.37	PASS
7	2442	6	21	19.31	19.22	22.32	29.37	PASS
8	2447	6	19.5	18.40	18.36	21.43	29.37	PASS
9	2452	6	17	16.54	16.59	19.62	29.37	PASS
10	2457	6	15	14.95	14.90	17.98	29.37	PASS
11	2462	6	8.5	9.18	8.51	11.91	29.37	PASS

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802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10	17.09	30.00	PASS
2	2417	MCS0	16	20.83	30.00	PASS
3	2422	MCS0	18	22.07	30.00	PASS
4	2427	MCS0	19	22.42	30.00	PASS
5	2432	MCS0	21	22.94	30.00	PASS
6	2437	MCS0	20.5	23.34	30.00	PASS
7	2442	MCS0	20	22.75	30.00	PASS
8	2447	MCS0	18	22.23	30.00	PASS
9	2452	MCS0	16.5	21.38	30.00	PASS
10	2457	MCS0	14	20.23	30.00	PASS
11	2462	MCS0	8	15.50	30.00	PASS
802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10	10.13	30.00	PASS
2	2417	MCS0	16	15.26	30.00	PASS
3	2422	MCS0	18	16.74	30.00	PASS
4	2427	MCS0	19	17.60	30.00	PASS
5	2432	MCS0	21	18.84	30.00	PASS
6	2437	MCS0	20.5	19.17	30.00	PASS
7	2442	MCS0	20	18.31	30.00	PASS
8	2447	MCS0	18	17.06	30.00	PASS
9	2452	MCS0	16.5	15.93	30.00	PASS
10	2457	MCS0	14	14.03	30.00	PASS
11	2462	MCS0	8	8.68	30.00	PASS

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802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	9.5	17.15	30.00	PASS
2	2417	MCS0	15.5	21.03	30.00	PASS
3	2422	MCS0	17	21.78	30.00	PASS
4	2427	MCS0	18.5	22.21	30.00	PASS
5	2432	MCS0	20.5	22.77	30.00	PASS
6	2437	MCS0	20.5	23.40	30.00	PASS
7	2442	MCS0	19.5	22.41	30.00	PASS
8	2447	MCS0	17.5	21.88	30.00	PASS
9	2452	MCS0	16	21.05	30.00	PASS
10	2457	MCS0	14	20.00	30.00	PASS
11	2462	MCS0	8.5	15.51	30.00	PASS
802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	9.5	10.13	30.00	PASS
2	2417	MCS0	15.5	15.64	30.00	PASS
3	2422	MCS0	17	16.79	30.00	PASS
4	2427	MCS0	18.5	17.82	30.00	PASS
5	2432	MCS0	20.5	19.01	30.00	PASS
6	2437	MCS0	20.5	19.15	30.00	PASS
7	2442	MCS0	19.5	18.31	30.00	PASS
8	2447	MCS0	17.5	17.03	30.00	PASS
9	2452	MCS0	16	15.81	30.00	PASS
10	2457	MCS0	14	14.06	30.00	PASS
11	2462	MCS0	8.5	8.62	30.00	PASS

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802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	10.5	17.02	17.59	20.32	29.37	PASS
2	2417	MCS8	16.5	21.49	21.81	24.66	29.37	PASS
3	2422	MCS8	18	22.32	22.35	25.35	29.37	PASS
4	2427	MCS8	19.5	22.80	22.79	25.81	29.37	PASS
5	2432	MCS8	21.5	23.45	23.23	26.35	29.37	PASS
6	2437	MCS8	22	23.28	23.31	26.31	29.37	PASS
7	2442	MCS8	20.5	23.28	22.91	26.11	29.37	PASS
8	2447	MCS8	18.5	22.68	22.36	25.53	29.37	PASS
9	2452	MCS8	17	22.09	21.81	24.96	29.37	PASS
10	2457	MCS8	15	21.00	20.62	23.82	29.37	PASS
11	2462	MCS8	9	16.23	15.84	19.05	29.37	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	10.5	9.98	10.36	13.22	29.37	PASS
2	2417	MCS8	16.5	15.15	16.00	18.65	29.37	PASS
3	2422	MCS8	18	16.51	0.00	19.83	29.37	PASS
4	2427	MCS8	19.5	17.58	18.02	20.86	29.37	PASS
5	2432	MCS8	21.5	18.86	19.07	22.02	29.37	PASS
6	2437	MCS8	22	19.13	19.16	22.20	29.37	PASS
7	2442	MCS8	20.5	18.38	18.42	21.45	29.37	PASS
8	2447	MCS8	18.5	17.10	17.15	20.18	29.37	PASS
9	2452	MCS8	17	15.94	15.98	19.01	29.37	PASS
10	2457	MCS8	15	14.31	14.28	17.35	29.37	PASS
11	2462	MCS8	9	9.00	8.41	11.77	29.37	PASS

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802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	7	13.49	30.00	PASS
4	2427	MCS0	7	13.63	30.00	PASS
5	2432	MCS0	7	13.74	30.00	PASS
6	2437	MCS0	7.5	14.18	30.00	PASS
7	2442	MCS0	7	13.36	30.00	PASS
8	2447	MCS0	7	13.31	30.00	PASS
9	2452	MCS0	5.5	12.30	30.00	PASS
802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	7	6.17	30.00	PASS
4	2427	MCS0	7	6.04	30.00	PASS
5	2432	MCS0	7	5.96	30.00	PASS
6	2437	MCS0	7.5	6.94	30.00	PASS
7	2442	MCS0	7	5.90	30.00	PASS
8	2447	MCS0	7	5.98	30.00	PASS
9	2452	MCS0	5.5	4.95	30.00	PASS

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802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	6.5	13.85	30.00	PASS
4	2427	MCS0	6.5	13.11	30.00	PASS
5	2432	MCS0	6.5	13.12	30.00	PASS
6	2437	MCS0	7.5	14.41	30.00	PASS
7	2442	MCS0	6.5	13.13	30.00	PASS
8	2447	MCS0	6.5	13.07	30.00	PASS
9	2452	MCS0	5.5	12.39	30.00	PASS
802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	6.5	6.07	30.00	PASS
4	2427	MCS0	6.5	6.08	30.00	PASS
5	2432	MCS0	6.5	5.97	30.00	PASS
6	2437	MCS0	7.5	6.87	30.00	PASS
7	2442	MCS0	6.5	6.14	30.00	PASS
8	2447	MCS0	6.5	5.99	30.00	PASS
9	2452	MCS0	5.5	4.72	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	8	14.72	15.00	17.87	29.37	PASS
4	2427	MCS8	8	14.87	14.76	17.83	29.37	PASS
5	2432	MCS8	8	14.41	14.52	17.48	29.37	PASS
6	2437	MCS8	8.5	15.82	15.09	18.48	29.37	PASS
7	2442	MCS8	8	14.63	15.11	17.89	29.37	PASS
8	2447	MCS8	7.5	14.29	14.75	17.54	29.37	PASS
9	2452	MCS8	7	13.69	13.58	16.65	29.37	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	8	5.95	6.33	9.19	29.37	PASS
4	2427	MCS8	8	5.91	6.25	9.13	29.37	PASS
5	2432	MCS8	8	5.77	6.14	9.01	29.37	PASS
6	2437	MCS8	8.5	7.52	6.55	10.11	29.37	PASS
7	2442	MCS8	8	5.54	6.95	9.35	29.37	PASS
8	2447	MCS8	7.5	5.50	6.62	9.15	29.37	PASS
9	2452	MCS8	7	5.06	4.78	7.97	29.37	PASS

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802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.27	3.62	20.89	36	PASS
2	2417	1	16.94	3.62	20.56	36	PASS
3	2422	1	18.94	3.62	22.56	36	PASS
4	2427	1	19.73	3.62	23.35	36	PASS
5	2432	1	19.85	3.62	23.47	36	PASS
6	2437	1	19.93	3.62	23.55	36	PASS
7	2442	1	19.88	3.62	23.50	36	PASS
8	2447	1	19.46	3.62	23.08	36	PASS
9	2452	1	18.82	3.62	22.44	36	PASS
10	2457	1	17.76	3.62	21.38	36	PASS
11	2462	1	17.60	3.62	21.22	36	PASS

802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.61	3.62	21.23	36	PASS
2	2417	1	17.60	3.62	21.22	36	PASS
3	2422	1	19.30	3.62	22.92	36	PASS
4	2427	1	19.89	3.62	23.51	36	PASS
5	2432	1	20.00	3.62	23.62	36	PASS
6	2437	1	19.94	3.62	23.56	36	PASS
7	2442	1	19.87	3.62	23.49	36	PASS
8	2447	1	19.44	3.62	23.06	36	PASS
9	2452	1	18.79	3.62	22.41	36	PASS
10	2457	1	17.94	3.62	21.56	36	PASS
11	2462	1	17.54	3.62	21.16	36	PASS

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802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	17.34	17.78	20.62	6.63	27.25	36	PASS
2	2417	1	17.25	18.02	20.70	6.63	27.33	36	PASS
3	2422	1	19.02	19.50	22.32	6.63	28.95	36	PASS
4	2427	1	19.78	20.10	22.99	6.63	29.62	36	PASS
5	2432	1	19.90	20.04	23.02	6.63	29.65	36	PASS
6	2437	1	19.93	20.01	23.02	6.63	29.65	36	PASS
7	2442	1	19.94	19.93	22.99	6.63	29.62	36	PASS
8	2447	1	19.49	19.48	22.54	6.63	29.17	36	PASS
9	2452	1	18.86	18.90	21.93	6.63	28.56	36	PASS
10	2457	1	18.06	18.12	21.14	6.63	27.77	36	PASS
11	2462	1	18.00	17.52	20.82	6.63	27.45	36	PASS

802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	10.59	3.62	14.21	36	PASS
2	2417	6	14.82	3.62	18.44	36	PASS
3	2422	6	15.83	3.62	19.45	36	PASS
4	2427	6	17.69	3.62	21.31	36	PASS
5	2432	6	18.78	3.62	22.40	36	PASS
6	2437	6	19.40	3.62	23.02	36	PASS
7	2442	6	19.12	3.62	22.74	36	PASS
8	2447	6	18.22	3.62	21.84	36	PASS
9	2452	6	16.48	3.62	20.10	36	PASS
10	2457	6	14.68	3.62	18.30	36	PASS
11	2462	6	8.89	3.62	12.51	36	PASS

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802.11g Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	10.89	3.62	14.51	36	PASS
2	2417	6	15.58	3.62	19.20	36	PASS
3	2422	6	16.31	3.62	19.93	36	PASS
4	2427	6	17.94	3.62	21.56	36	PASS
5	2432	6	18.87	3.62	22.49	36	PASS
6	2437	6	19.53	3.62	23.15	36	PASS
7	2442	6	19.25	3.62	22.87	36	PASS
8	2447	6	18.30	3.62	21.92	36	PASS
9	2452	6	16.59	3.62	20.21	36	PASS
10	2457	6	14.72	3.62	18.34	36	PASS
11	2462	6	8.65	3.62	12.27	36	PASS

802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	10.67	11.05	13.91	6.63	20.54	36	PASS
2	2417	6	14.73	15.70	18.29	6.63	24.92	36	PASS
3	2422	6	15.61	16.40	19.07	6.63	25.70	36	PASS
4	2427	6	17.68	18.17	20.98	6.63	27.61	36	PASS
5	2432	6	18.68	19.02	21.90	6.63	28.53	36	PASS
6	2437	6	19.48	19.55	22.57	6.63	29.20	36	PASS
7	2442	6	19.31	19.22	22.32	6.63	28.95	36	PASS
8	2447	6	18.40	18.36	21.43	6.63	28.06	36	PASS
9	2452	6	16.54	16.59	19.62	6.63	26.25	36	PASS
10	2457	6	14.95	14.90	17.98	6.63	24.61	36	PASS
11	2462	6	9.18	8.51	11.91	6.63	18.54	36	PASS

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802.11n_HT20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10.13	3.62	13.75	36	PASS
2	2417	MCS0	15.26	3.62	18.88	36	PASS
3	2422	MCS0	16.74	3.62	20.36	36	PASS
4	2427	MCS0	17.60	3.62	21.22	36	PASS
5	2432	MCS0	18.84	3.62	22.46	36	PASS
6	2437	MCS0	19.17	3.62	22.79	36	PASS
7	2442	MCS0	18.31	3.62	21.93	36	PASS
8	2447	MCS0	17.06	3.62	20.68	36	PASS
9	2452	MCS0	15.93	3.62	19.55	36	PASS
10	2457	MCS0	14.03	3.62	17.65	36	PASS
11	2462	MCS0	8.68	3.62	12.30	36	PASS

802.11n_HT20M Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	10.13	3.62	13.75	36	PASS
2	2417	MCS0	15.64	3.62	19.26	36	PASS
3	2422	MCS0	16.79	3.62	20.41	36	PASS
4	2427	MCS0	17.82	3.62	21.44	36	PASS
5	2432	MCS0	19.01	3.62	22.63	36	PASS
6	2437	MCS0	19.15	3.62	22.77	36	PASS
7	2442	MCS0	18.31	3.62	21.93	36	PASS
8	2447	MCS0	17.03	3.62	20.65	36	PASS
9	2452	MCS0	15.81	3.62	19.43	36	PASS
10	2457	MCS0	14.06	3.62	17.68	36	PASS
11	2462	MCS0	8.62	3.62	12.24	36	PASS

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802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	9.98	10.36	13.22	6.63	19.85	36	PASS
2	2417	MCS8	15.15	16.00	18.65	6.63	25.28	36	PASS
3	2422	MCS8	16.51	0.00	19.83	6.63	26.46	36	PASS
4	2427	MCS8	17.58	18.02	20.86	6.63	27.49	36	PASS
5	2432	MCS8	18.86	19.07	22.02	6.63	28.65	36	PASS
6	2437	MCS8	19.13	19.16	22.20	6.63	28.83	36	PASS
7	2442	MCS8	18.38	18.42	21.45	6.63	28.08	36	PASS
8	2447	MCS8	17.10	17.15	20.18	6.63	26.81	36	PASS
9	2452	MCS8	15.94	15.98	19.01	6.63	25.64	36	PASS
10	2457	MCS8	14.31	14.28	17.35	6.63	23.98	36	PASS
11	2462	MCS8	9.00	8.41	11.77	6.63	18.40	36	PASS

802.11n_HT40M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	6.17	3.62	9.79	36	PASS
4	2427	MCS0	6.04	3.62	9.66	36	PASS
5	2432	MCS0	5.96	3.62	9.58	36	PASS
6	2437	MCS0	6.94	3.62	10.56	36	PASS
7	2442	MCS0	5.90	3.62	9.52	36	PASS
8	2447	MCS0	5.98	3.62	9.60	36	PASS
9	2452	MCS0	4.95	3.62	8.57	36	PASS

802.11n_HT40M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	6.07	3.62	9.69	36	PASS
4	2427	MCS0	6.08	3.62	9.70	36	PASS
5	2432	MCS0	5.97	3.62	9.59	36	PASS
6	2437	MCS0	6.87	3.62	10.49	36	PASS
7	2442	MCS0	6.14	3.62	9.76	36	PASS
8	2447	MCS0	5.99	3.62	9.61	36	PASS
9	2452	MCS0	4.72	3.62	8.34	36	PASS

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802.11n_HT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	5.95	6.33	9.19	6.63	15.82	36	PASS
4	2427	MCS8	5.91	6.25	9.13	6.63	15.76	36	PASS
5	2432	MCS8	5.77	6.14	9.01	6.63	15.64	36	PASS
6	2437	MCS8	7.52	6.55	10.11	6.63	16.74	36	PASS
7	2442	MCS8	5.54	6.95	9.35	6.63	15.98	36	PASS
8	2447	MCS8	5.50	6.62	9.15	6.63	15.78	36	PASS
9	2452	MCS8	5.06	4.78	7.97	6.63	14.60	36	PASS

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9 EMISSION BANDWIDTH MEASUREMENT

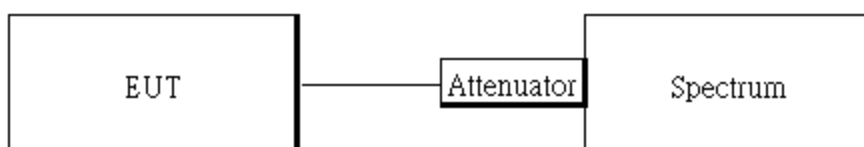
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

9.3 Test Set-up



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9.4 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 spectrum analyzer.
4. Set the spectrum analyzer as
RBW= 100kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% Bandwidth ,
VBW $\geq$ 3 X RBW,
Span= large enough to capture all products of the modulation process,
Sweep=auto,
Detector = Peak, and Max hold for 99% Bandwidth test.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8082.00	≥ 500	PASS
2437	9056.00	≥ 500	PASS
2462	8101.00	≥ 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8091.00	≥ 500	PASS
2437	9067.00	≥ 500	PASS
2462	8092.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15340.00	≥ 500	PASS
2437	15150.00	≥ 500	PASS
2462	15170.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150.00	≥ 500	PASS
2437	15140.00	≥ 500	PASS
2462	15160.00	≥ 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15170.00	≥ 500	PASS
2437	15160.00	≥ 500	PASS
2462	15170.00	≥ 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15160.00	≥ 500	PASS
2437	15150.00	≥ 500	PASS
2462	15170.00	≥ 500	PASS

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802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35160.00	≥ 500	PASS
2437	35170.00	≥ 500	PASS
2452	35150.00	≥ 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35130.00	≥ 500	PASS
2437	35130.00	≥ 500	PASS
2452	35150.00	≥ 500	PASS

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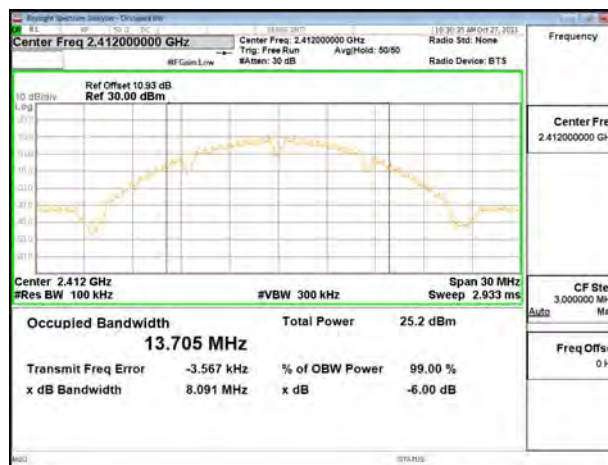
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802.11b_20MHz_Chain0_2412MHz



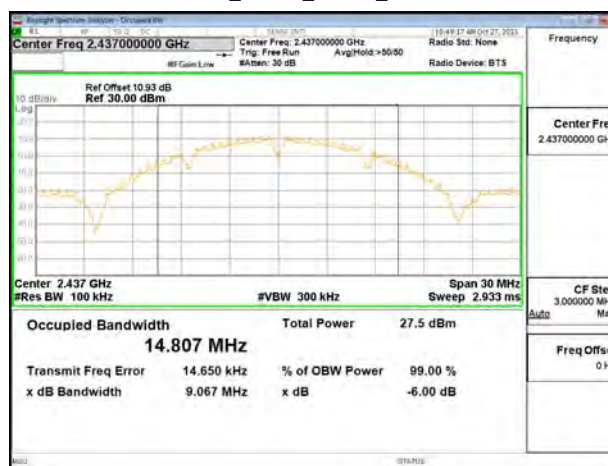
802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



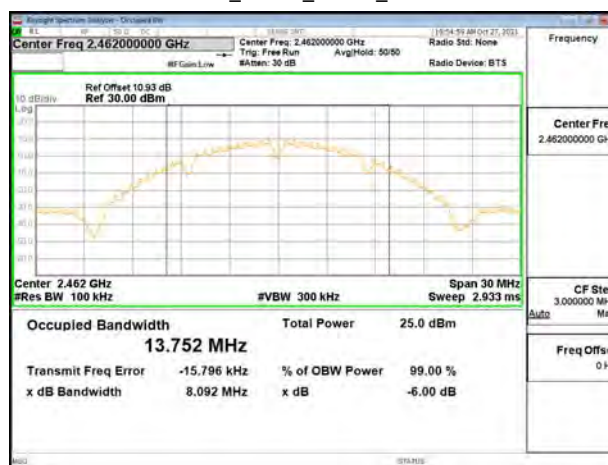
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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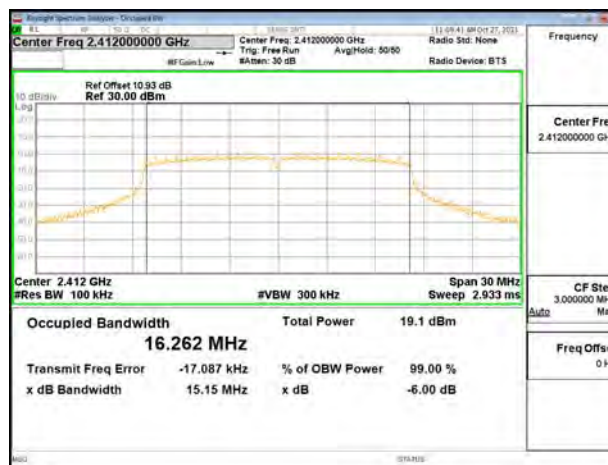
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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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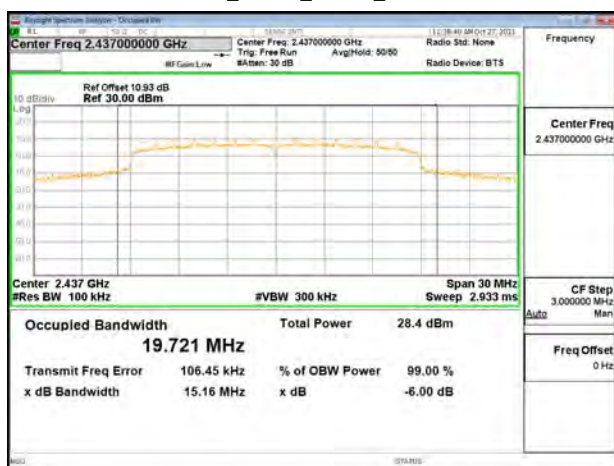
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

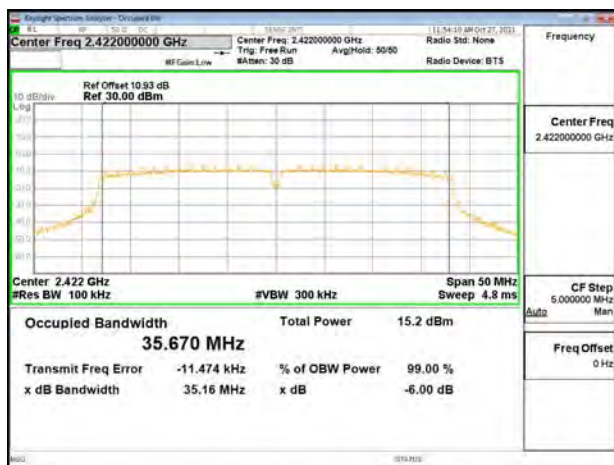


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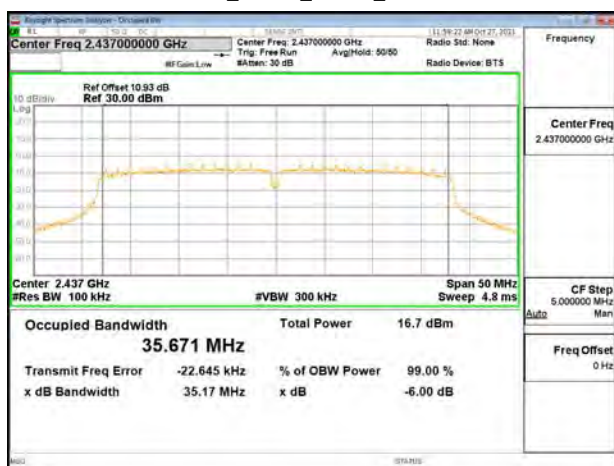
802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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9.6 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	13.616
2437	14.682
2462	13.806

802.11b Ch1

Freq. (MHz)	99% BW (MHz)
2412	13.737
2437	14.855
2462	13.772

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.299
2437	21.103
2462	16.301

802.11g Ch1

Freq. (MHz)	99% BW (MHz)
2412	16.29
2437	21.531
2462	16.288

802.11n HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.412
2437	20.028
2462	17.403

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802.11n_HT20M Ch1

Freq. (MHz)	99% BW (MHz)
2412	17.425
2437	20.824
2462	17.425

802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)
2422	35.787
2437	35.771
2452	35.756

802.11n_HT40M Ch1

Freq. (MHz)	99% BW (MHz)
2422	35.733
2437	35.78
2452	35.74

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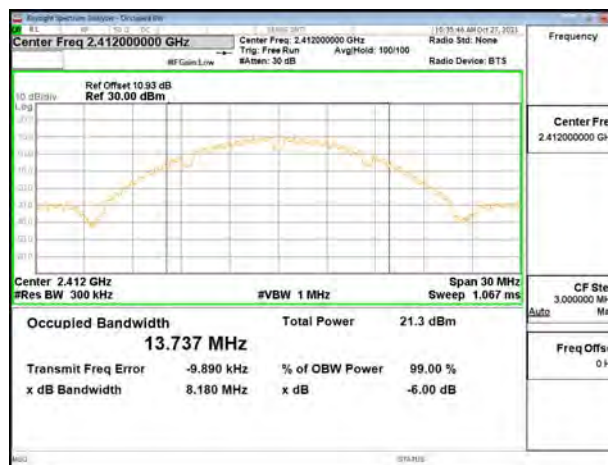
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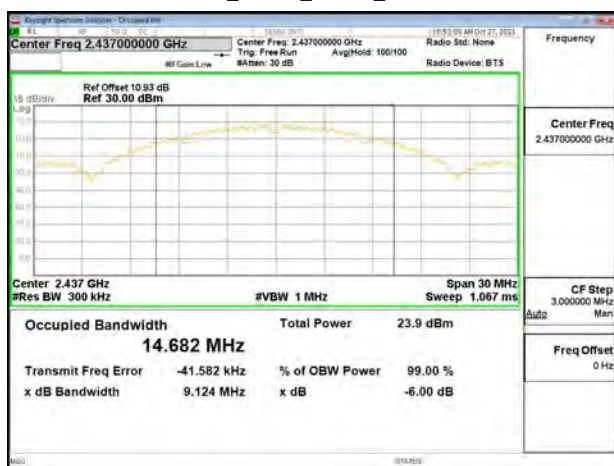
802.11b_20MHz_Chain0_2412MHz



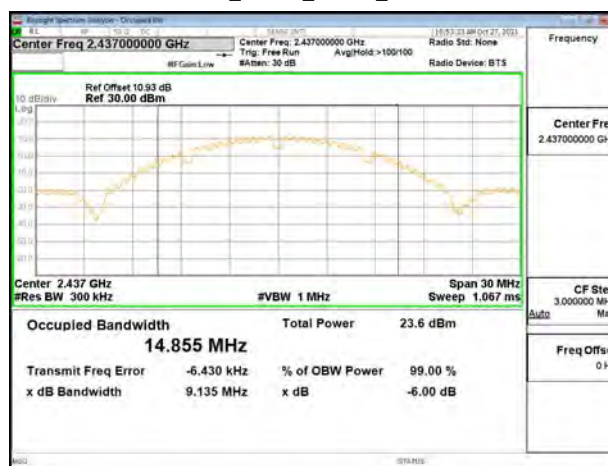
802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



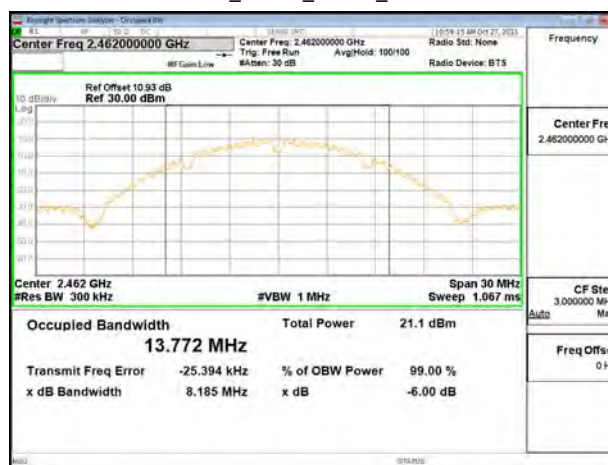
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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802.11g_20MHz_Chain0_2412MHz



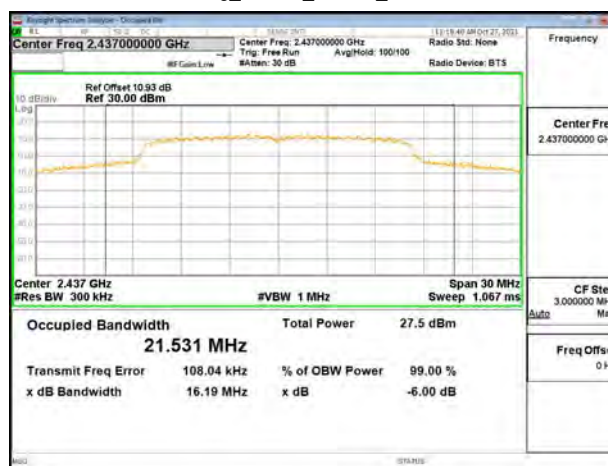
802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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802.11n_20MHz_Chain0_2412MHz



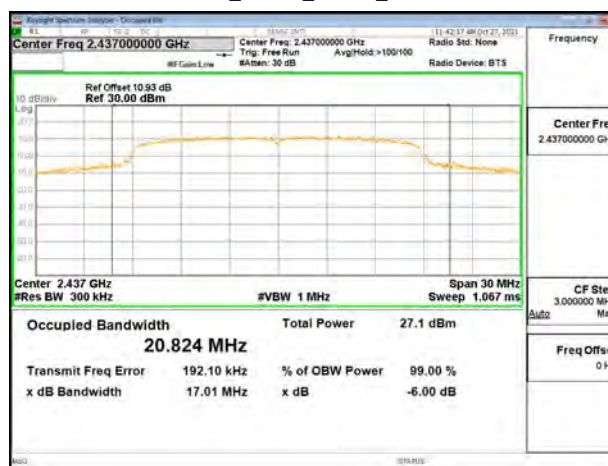
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



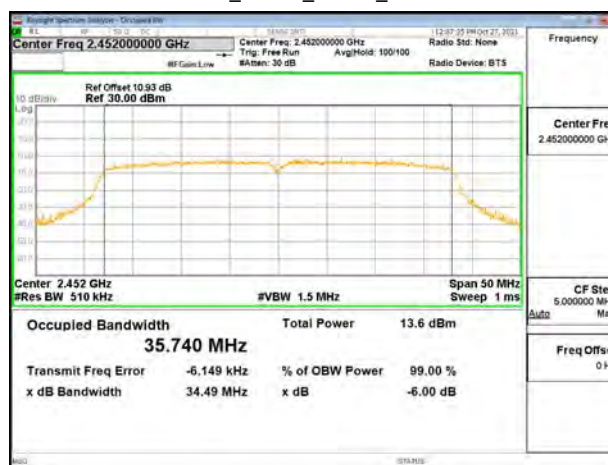
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

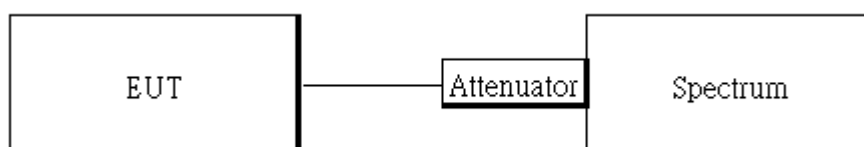
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

10.3 Test SET-UP



10.4 Measurement Procedure

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Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
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 spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.5 Measurement Result

802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	9.78	-10.22
2437	12.19	-7.81
2462	10.15	-9.85

802.11b Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	9.78	-10.22
2437	11.48	-8.52
2462	9.21	-10.79

802.11g Ch0

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.58	-19.42
2437	10.34	-9.66
2462	-0.84	-20.84

802.11g Ch1

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.91	-19.09
2437	10.22	-9.78
2462	-1.78	-21.78

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802.11nHT_20M Ch0

Reference Level of Limit 802.11ac20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.82	-19.18
2437	10.16	-9.84
2462	-0.49	-20.49

802.11nHT_20M Ch1

Reference Level of Limit 802.11ac20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	0.93	-19.07
2437	10.46	-9.54
2462	-1.29	-21.29

802.11nHT_40M Ch0

Reference Level of Limit 802.11ac40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-5.4	-25.40
2437	-5.13	-25.13
2452	-6.57	-26.57

802.11nHT_40M Ch1

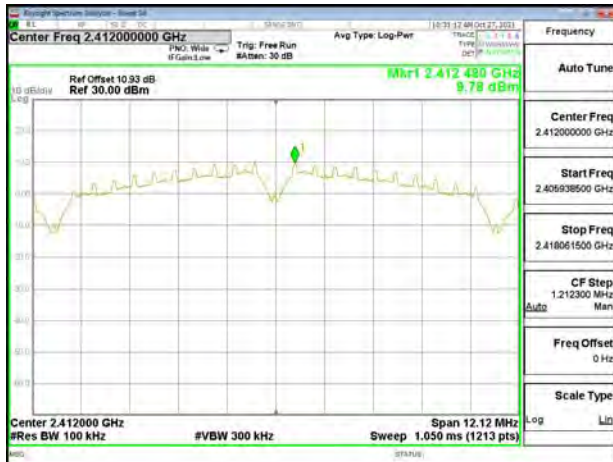
Reference Level of Limit 802.11ac40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-5.14	-25.14
2437	-4.73	-24.73
2452	-5.39	-25.39

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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



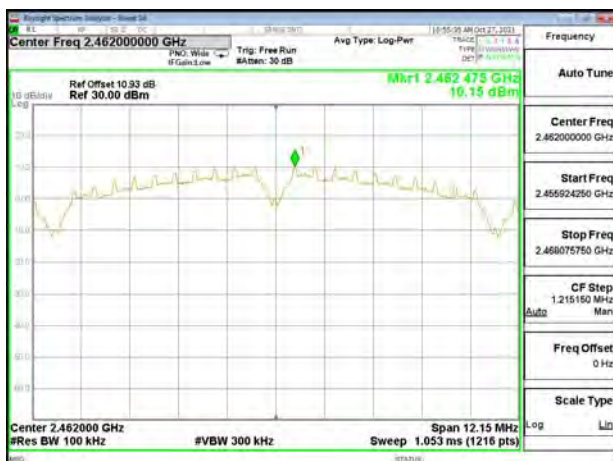
802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

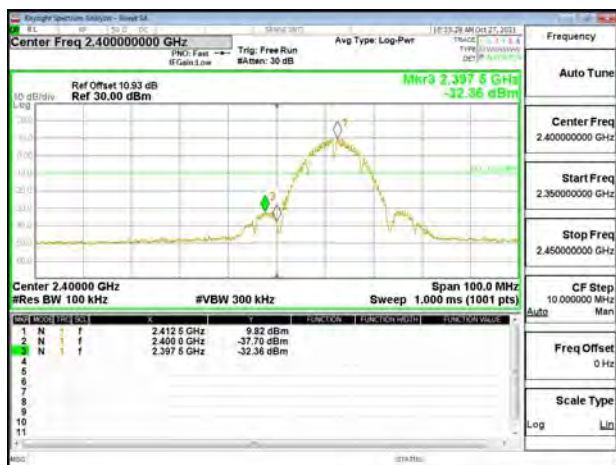


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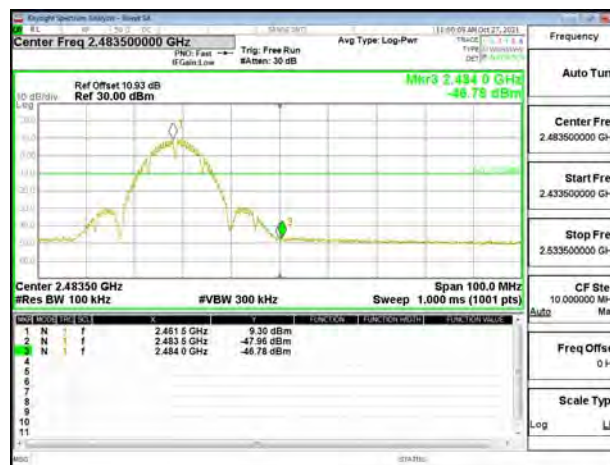
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802.11b_20MHz_Chain0_2412MHz



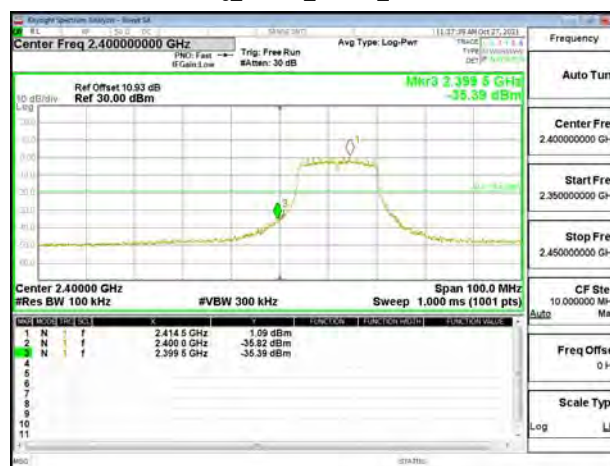
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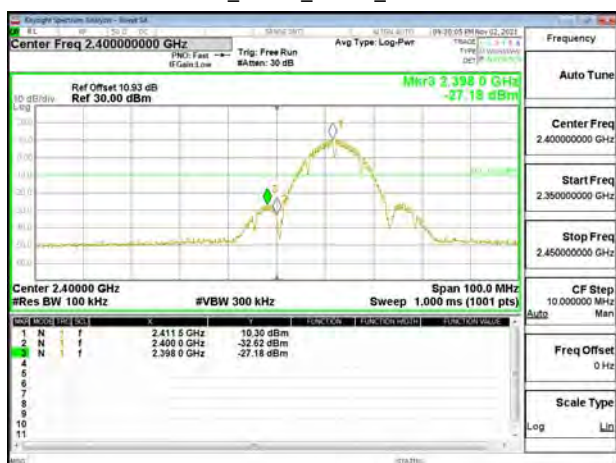
802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2462MHz

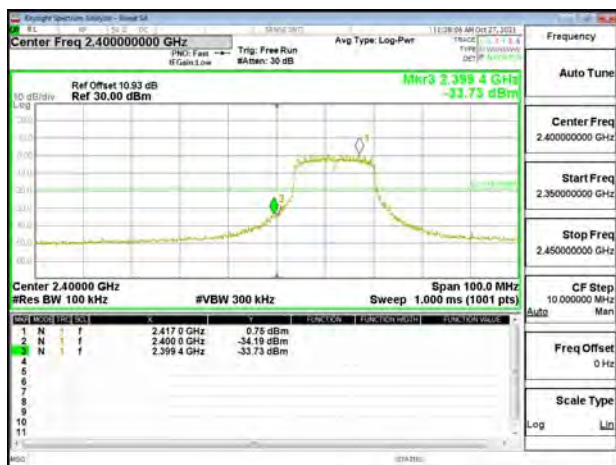


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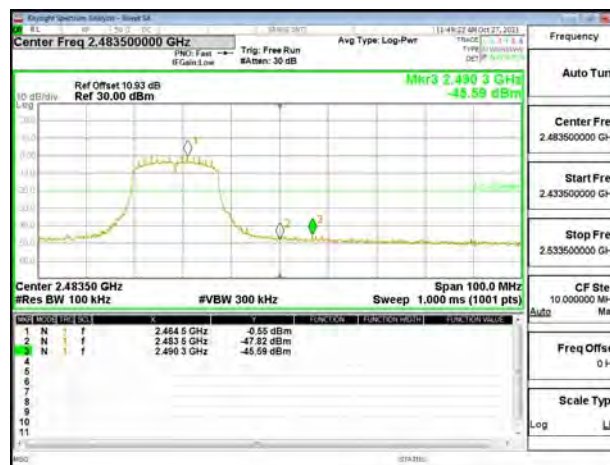
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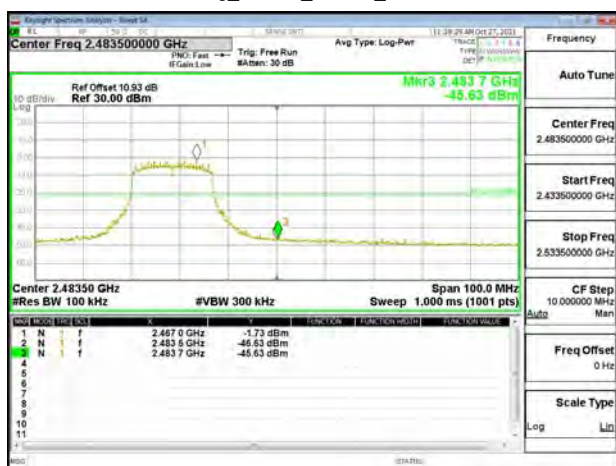
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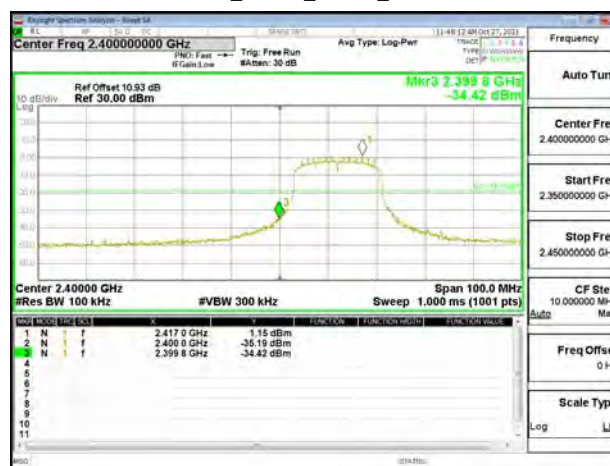
802.11n_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2462MHz

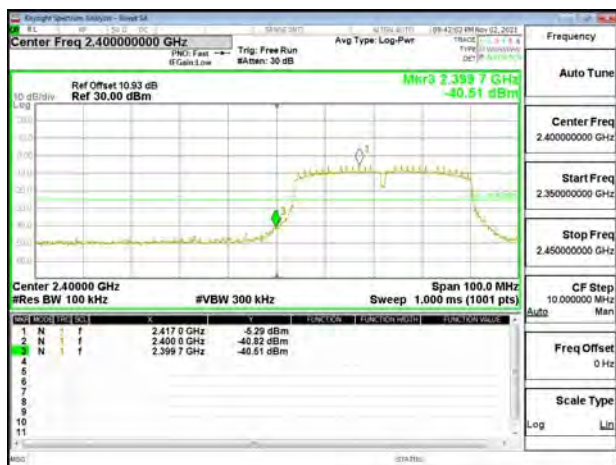


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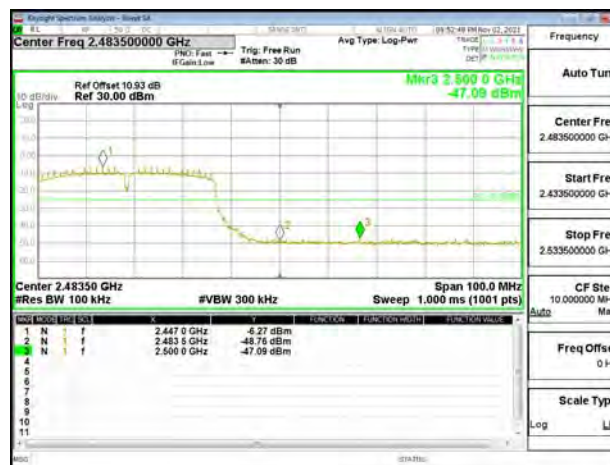
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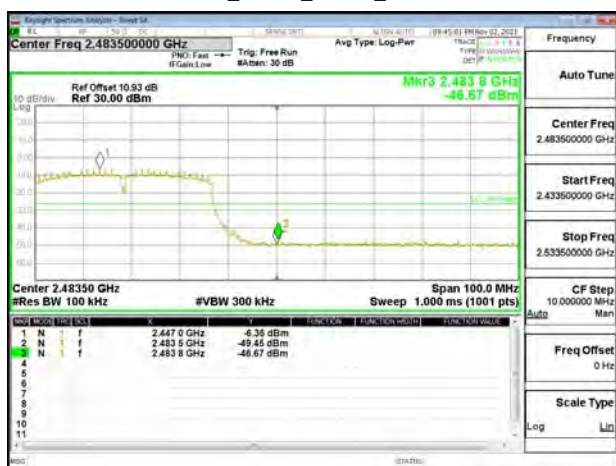
802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2422MHz

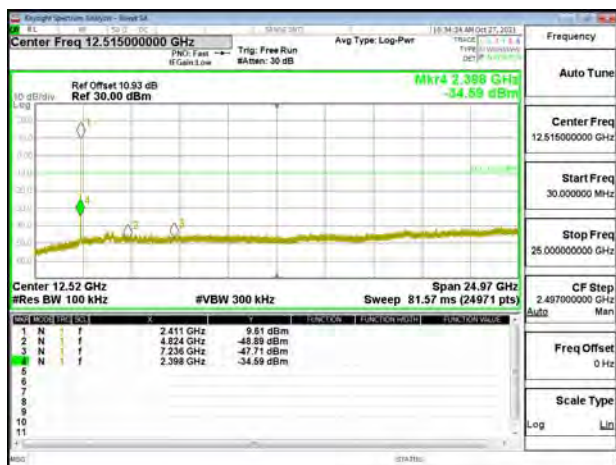


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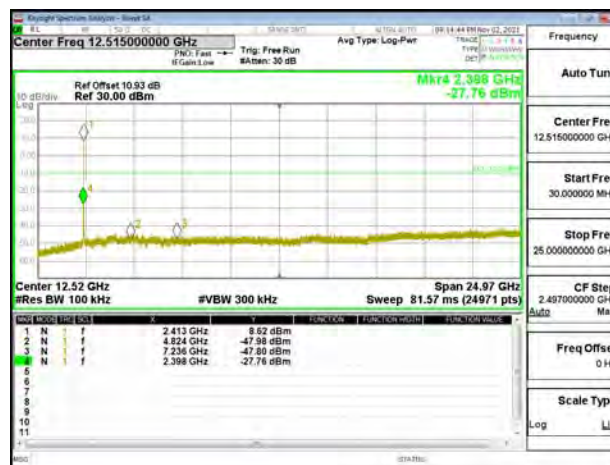
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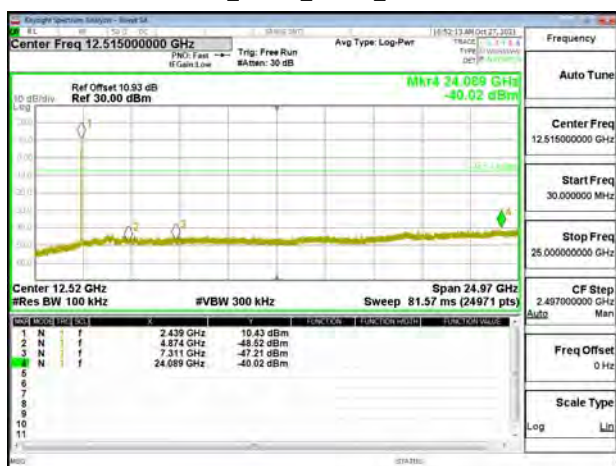
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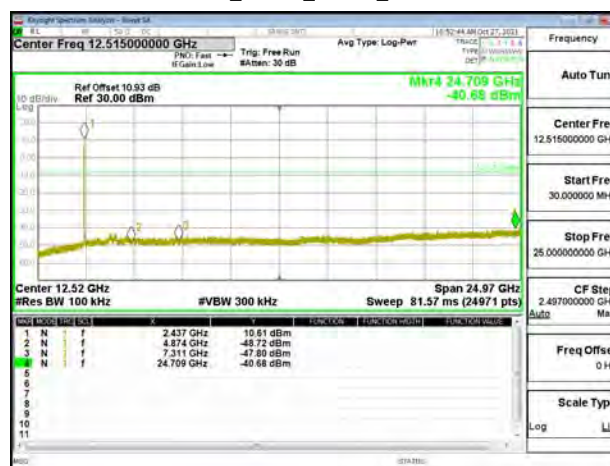
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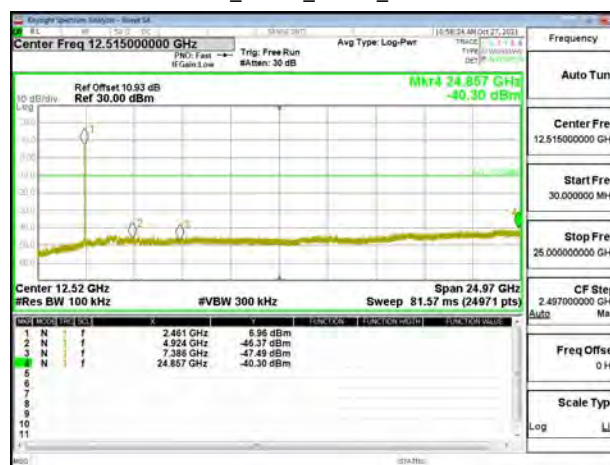
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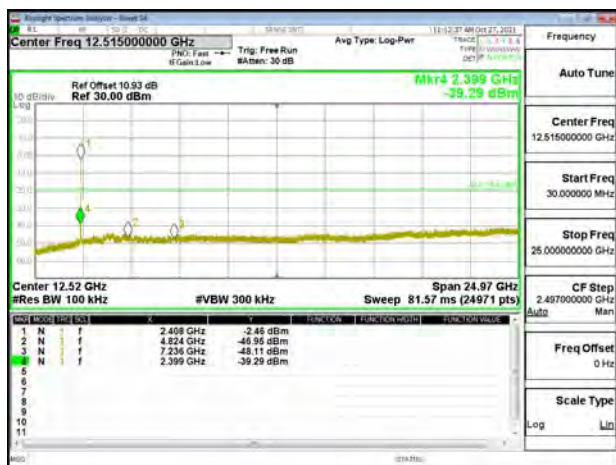


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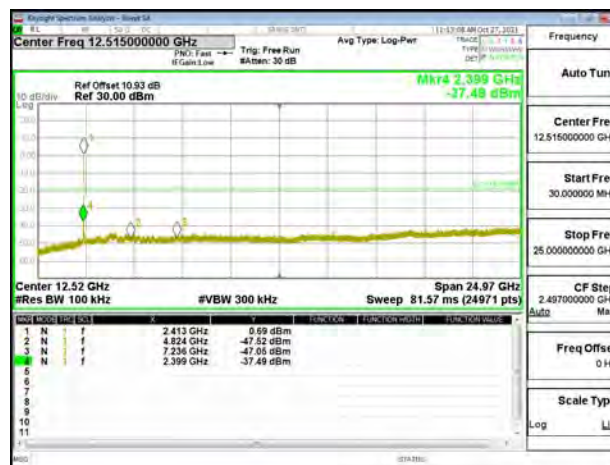
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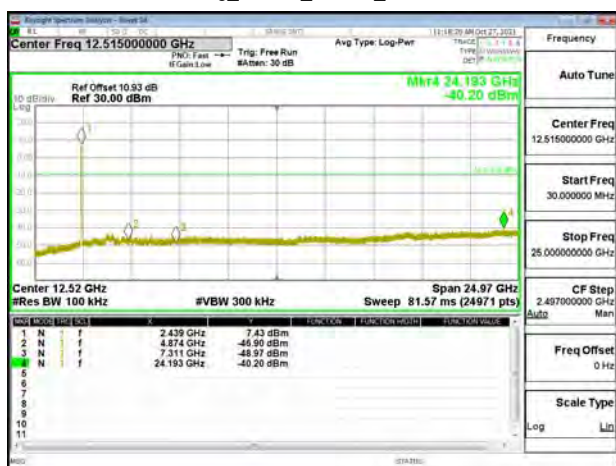
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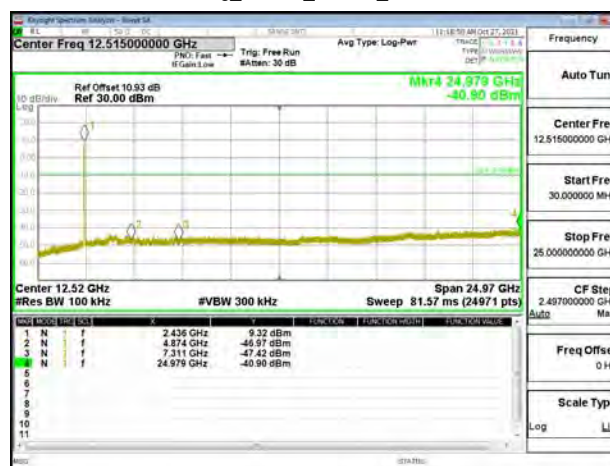
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802.11g_20MHz_Chain0_2437MHz



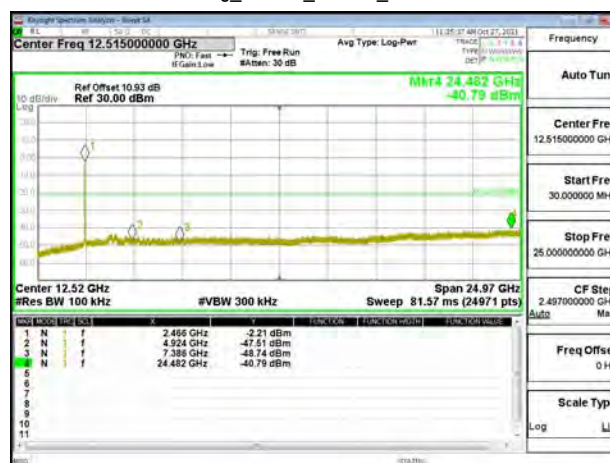
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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

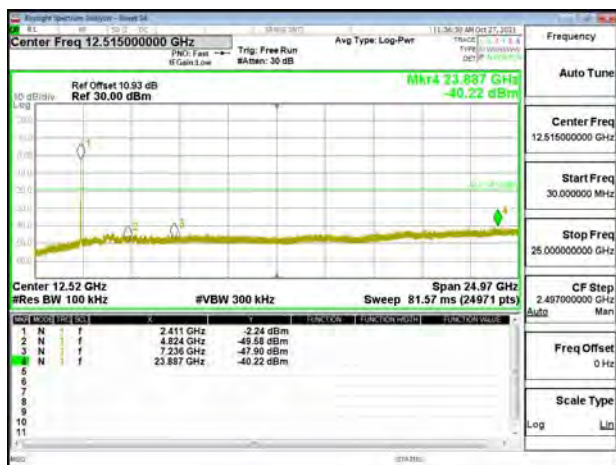


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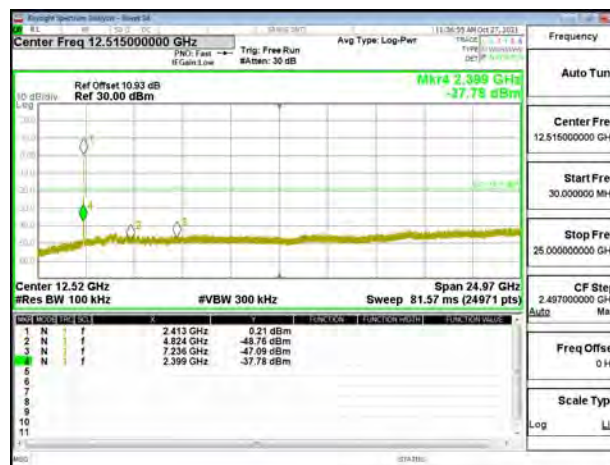
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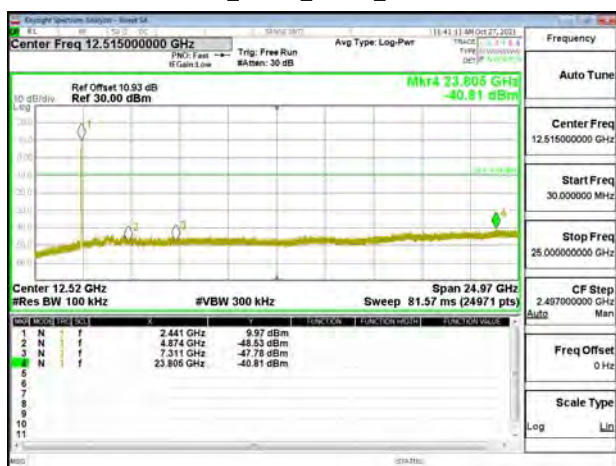
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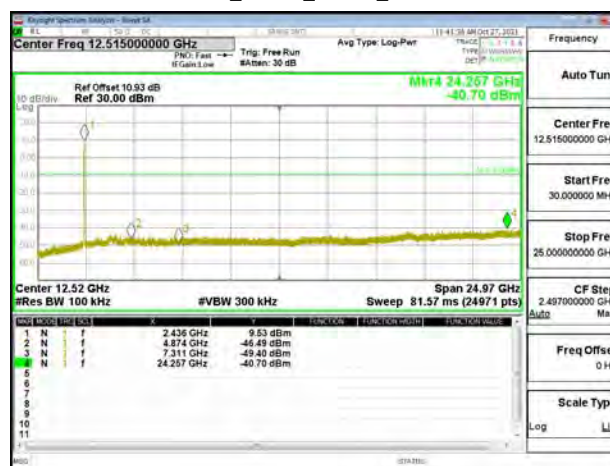
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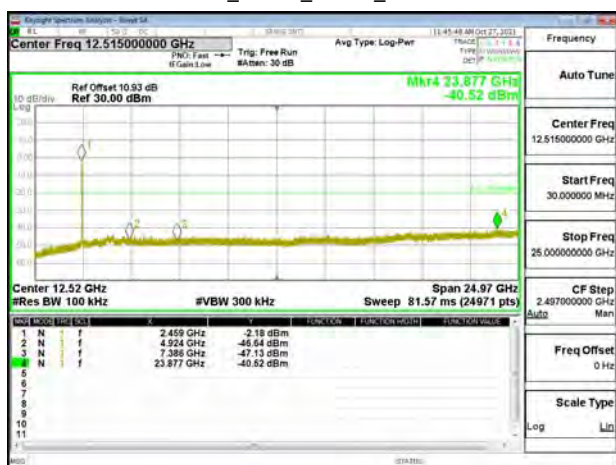
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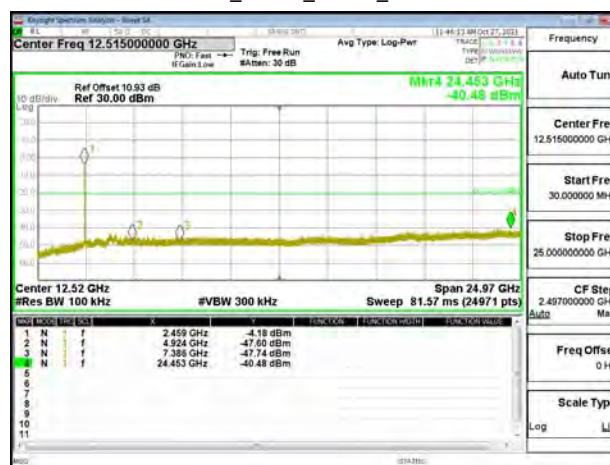
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802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

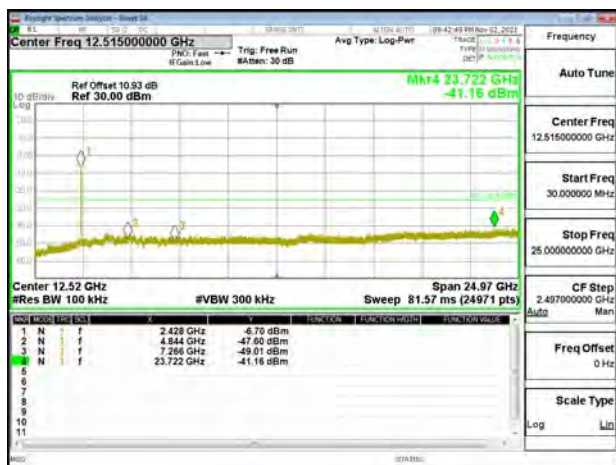


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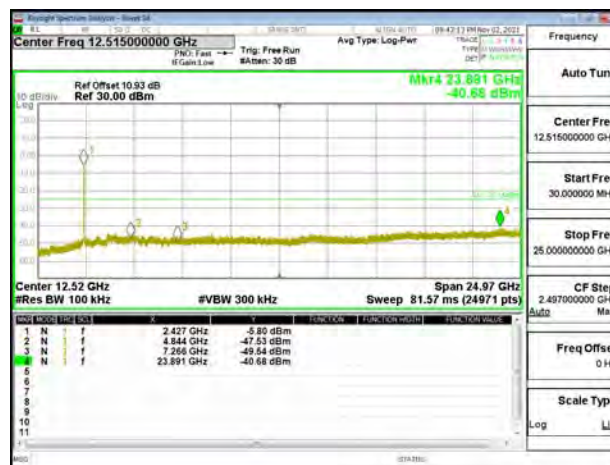
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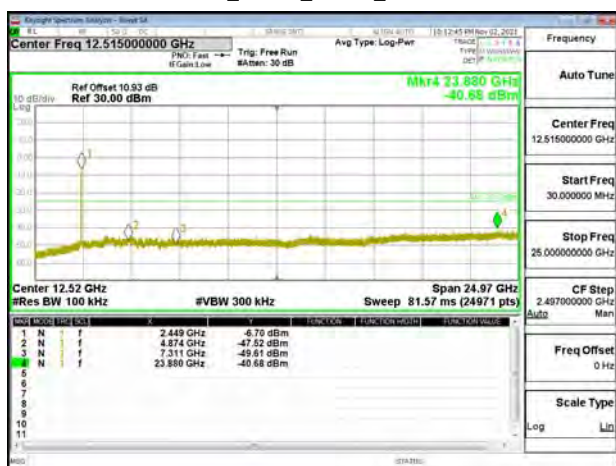
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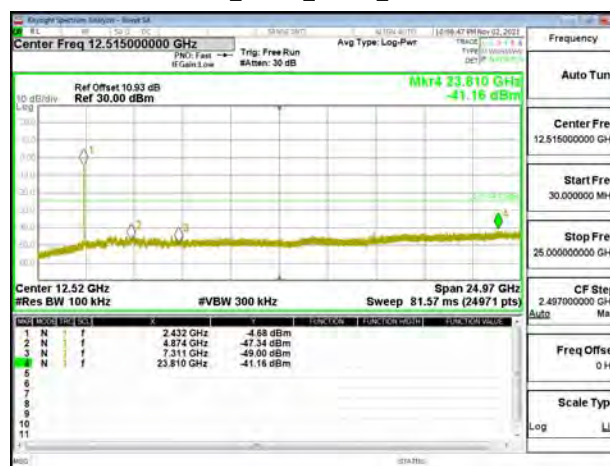
802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



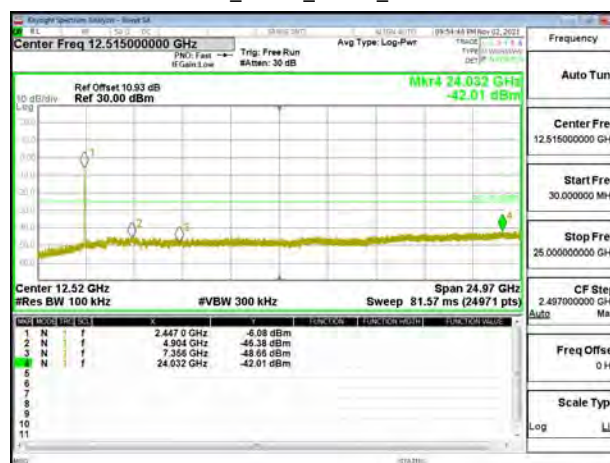
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 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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11.2 Measurement Equipment Used:

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2021	09/26/2022
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	HP	8449B	3008A00578	12/16/2020	12/15/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A07676	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2636/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	340057/4	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	800052/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2621/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2617/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Site Cal	SGS	SAC 3	N/A	01/01/2021	12/31/2021
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

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

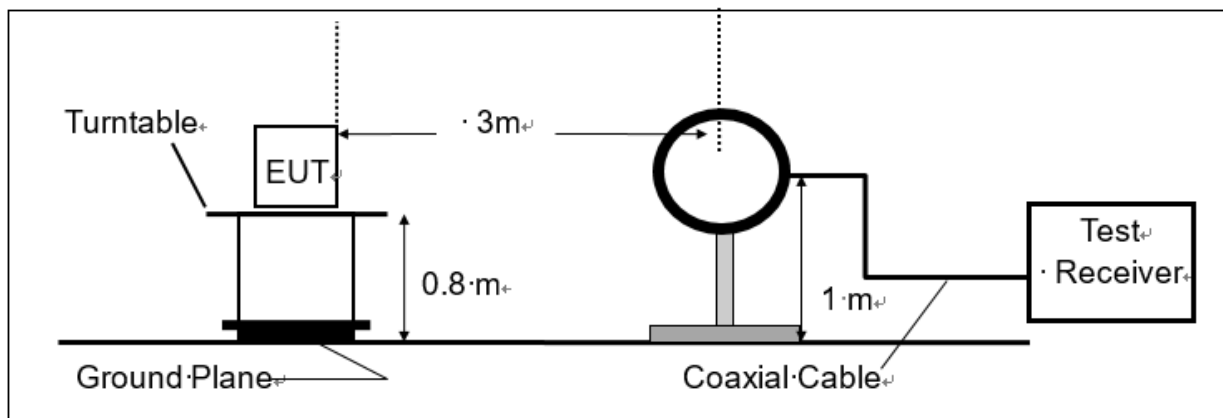
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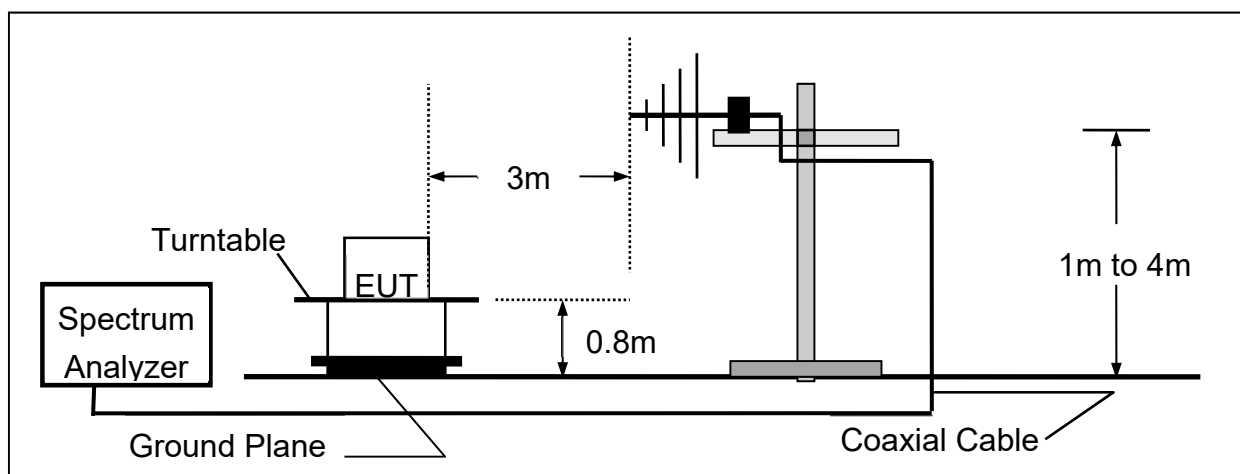
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11.3 Test SET-UP

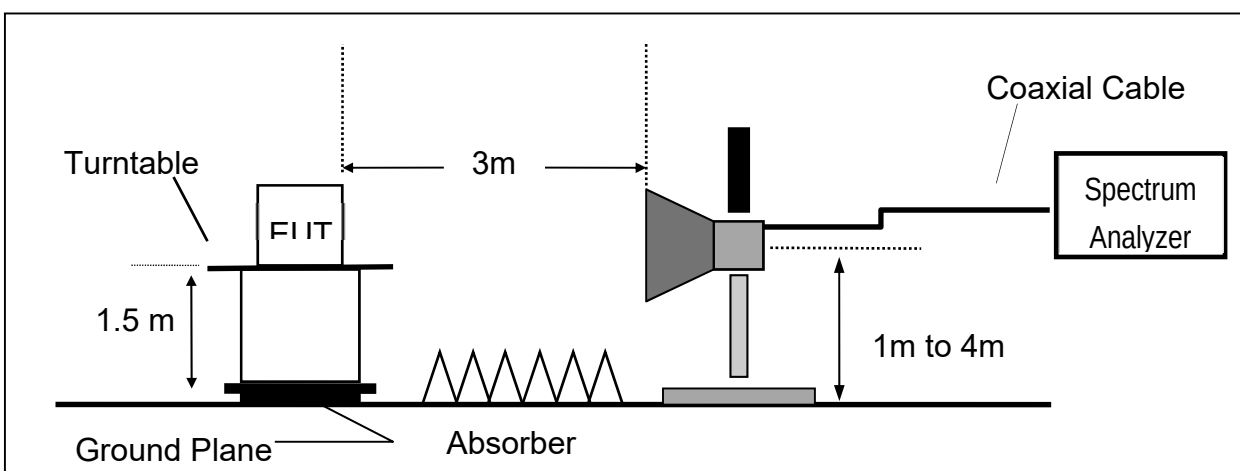
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

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11.5 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)

11.6 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.

11.7 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

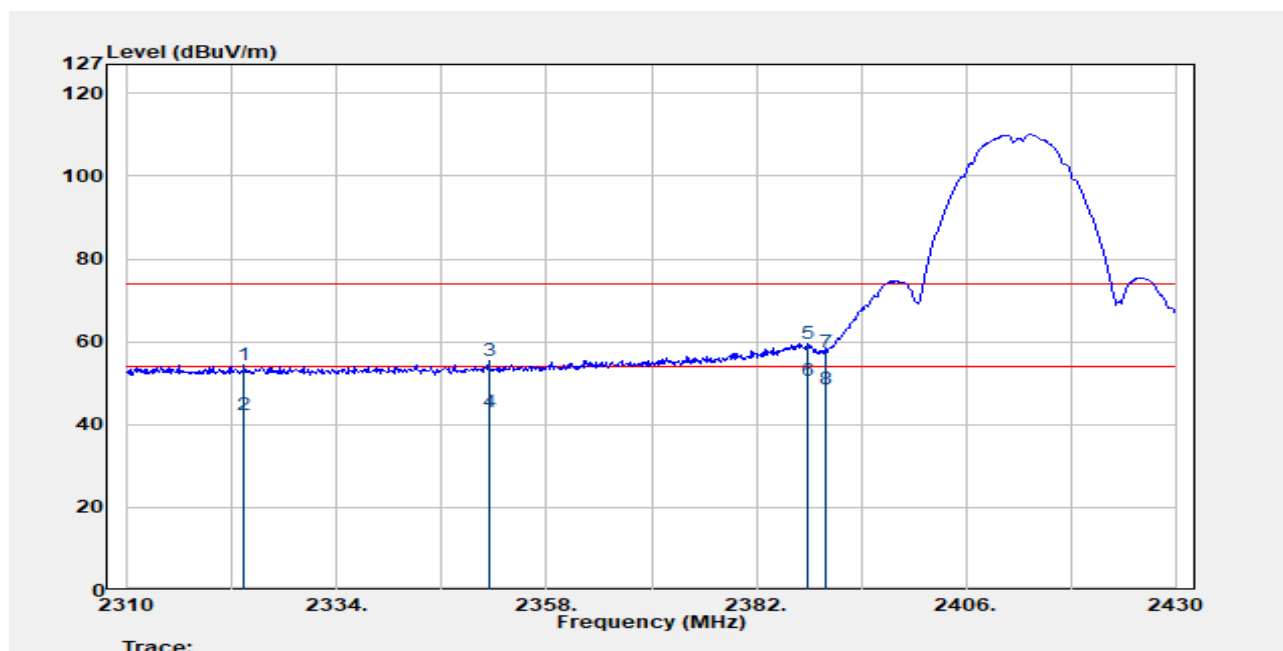
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11.7.1 Radiated Band Edge Measurement Result

Report Number	:ER-2021-90005	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2021-10-18
Test Frequency	:2412 MHz	Temp./Humi.	:26.1/64
Test Mode	:Bandedge CH Low	Antenna Pol.	:Vertical
EUT Pol	:E2 Plane	Engineer	:Jack Liu



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2323.320	Peak	53.16	1.11	54.27	74.00	-19.73
2323.320	Average	41.38	1.11	42.49	54.00	-11.51
2351.400	Peak	54.27	1.00	55.27	74.00	-18.73
2351.400	Average	42.15	1.00	43.15	54.00	-10.85
2387.880	Peak	58.76	0.92	59.68	74.00	-14.32
2387.880	Average	49.84	0.92	50.76	54.00	-3.24
2390.000	Peak	56.70	0.92	57.61	74.00	-16.39
2390.000	Average	47.66	0.92	48.58	54.00	-5.42

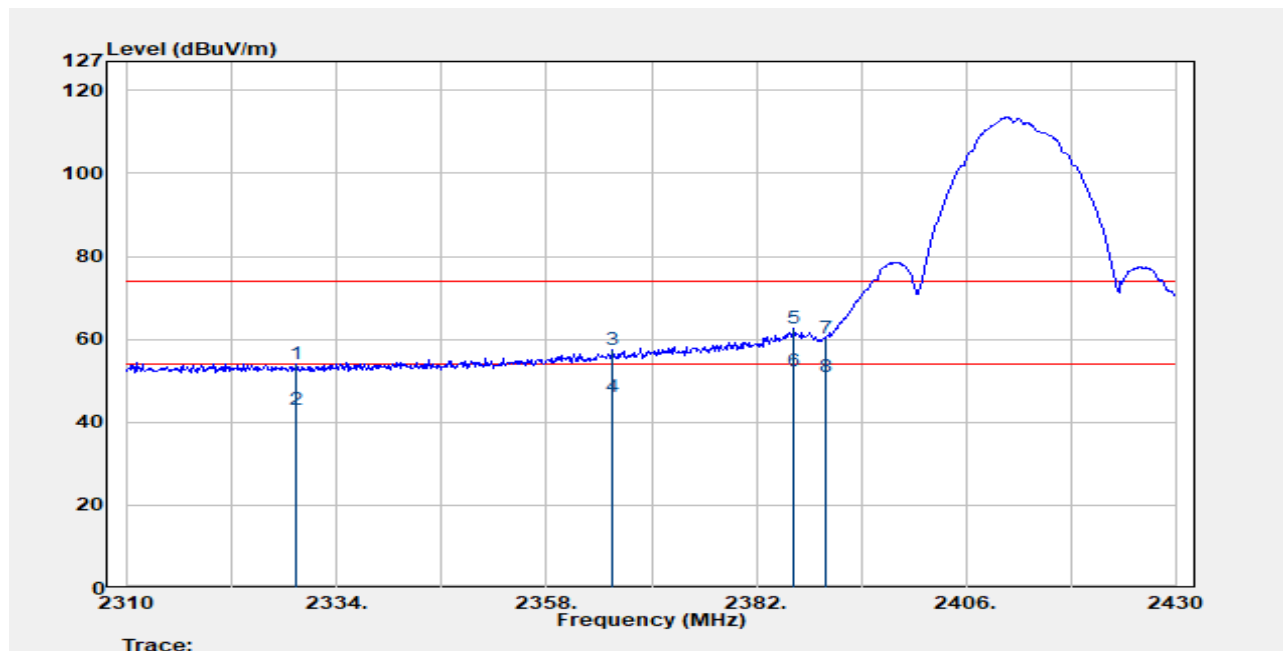
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2329.320	Peak	53.11	1.09	54.20	74.00	-19.80
2329.320	Average	41.88	1.09	42.97	54.00	-11.03
2365.560	Peak	56.35	0.97	57.32	74.00	-16.68
2365.560	Average	44.98	0.97	45.95	54.00	-8.05
2386.320	Peak	61.72	0.92	62.64	74.00	-11.36
2386.320	Average	51.53	0.92	52.45	54.00	-1.55
2390.000	Peak	59.30	0.92	60.21	74.00	-13.79
2390.000	Average	50.03	0.92	50.95	54.00	-3.05

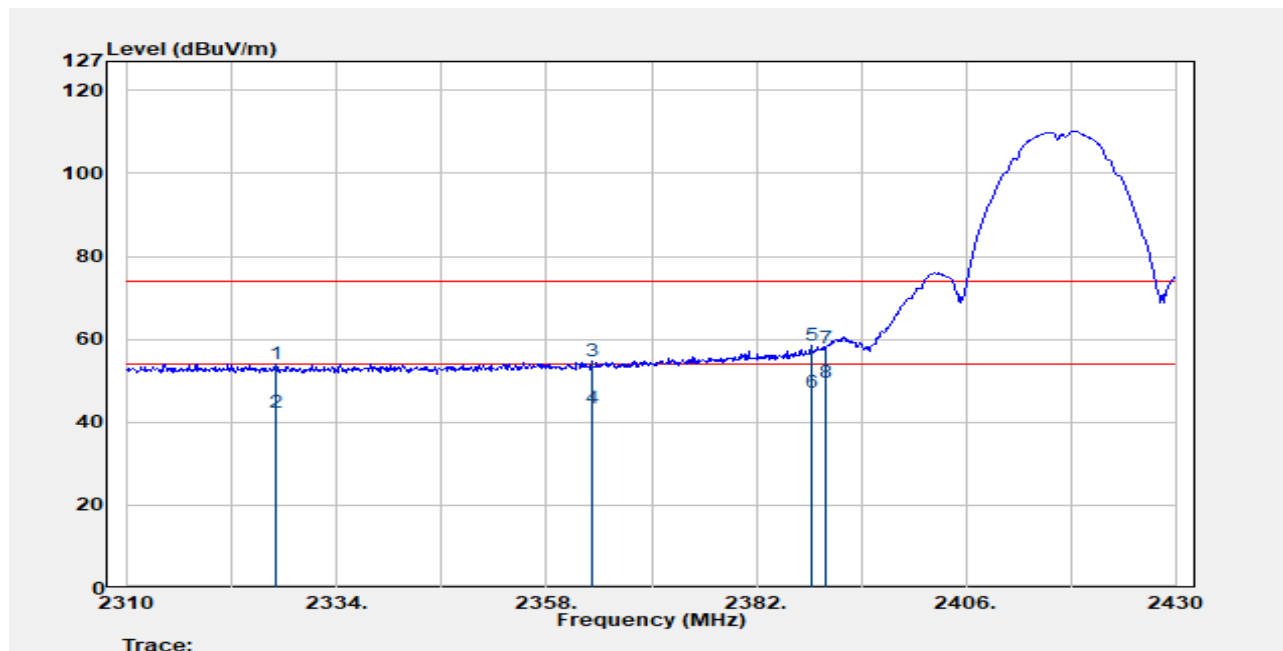
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2326.920	Peak	53.00	1.10	54.10	74.00	-19.90
2326.920	Average	41.32	1.10	42.42	54.00	-11.58
2363.160	Peak	53.67	0.97	54.65	74.00	-19.35
2363.160	Average	42.40	0.97	43.37	54.00	-10.63
2388.240	Peak	57.44	0.92	58.36	74.00	-15.64
2388.240	Average	46.28	0.92	47.20	54.00	-6.80
2390.000	Peak	57.02	0.92	57.94	74.00	-16.06
2390.000	Average	48.56	0.92	49.48	54.00	-4.52

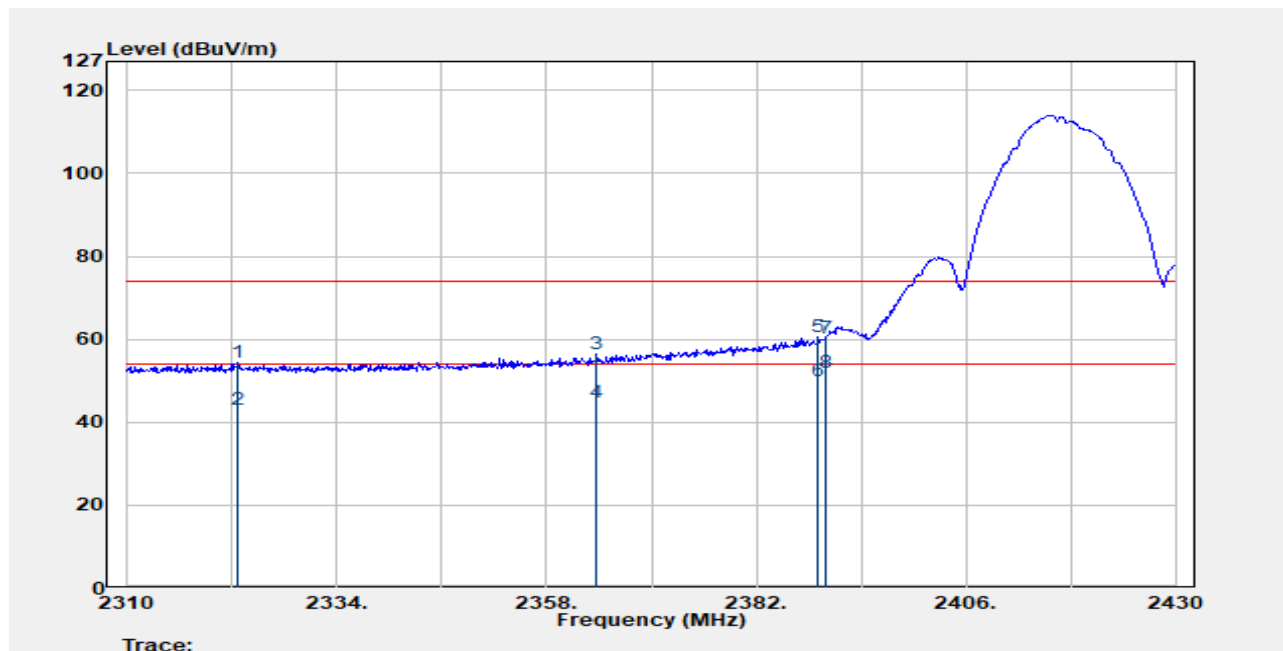
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2322.600	Peak	53.24	1.11	54.35	74.00	-19.65
2322.600	Average	41.78	1.11	42.89	54.00	-11.11
2363.760	Peak	55.44	0.97	56.41	74.00	-17.59
2363.760	Average	43.70	0.97	44.67	54.00	-9.33
2389.080	Peak	59.77	0.92	60.69	74.00	-13.31
2389.080	Average	48.95	0.92	49.87	54.00	-4.13
2390.000	Peak	59.22	0.92	60.14	74.00	-13.86
2390.000	Average	50.90	0.92	51.82	54.00	-2.18

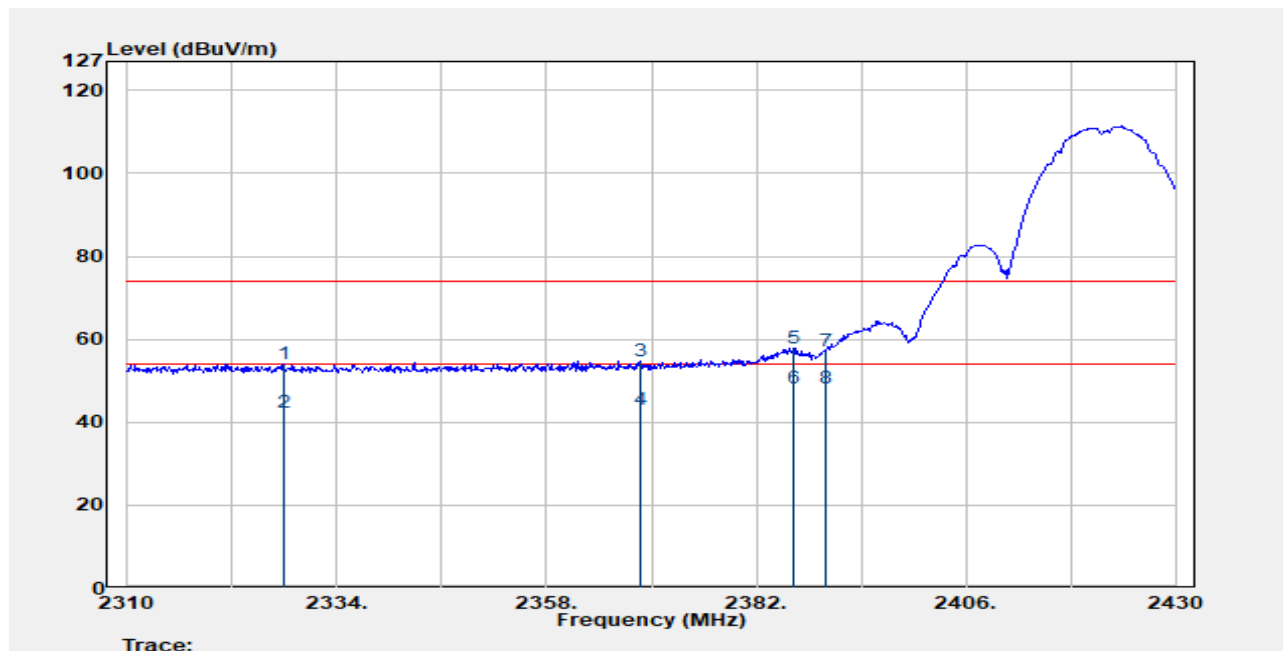
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2327.880	Peak	53.04	1.09	54.14	74.00	-19.86
2327.880	Average	41.41	1.09	42.50	54.00	-11.50
2368.680	Peak	53.91	0.96	54.87	74.00	-19.13
2368.680	Average	42.22	0.96	43.18	54.00	-10.82
2386.200	Peak	57.00	0.92	57.93	74.00	-16.07
2386.200	Average	47.12	0.92	48.04	54.00	-5.96
2390.000	Peak	56.34	0.92	57.25	74.00	-16.75
2390.000	Average	47.44	0.92	48.36	54.00	-5.64

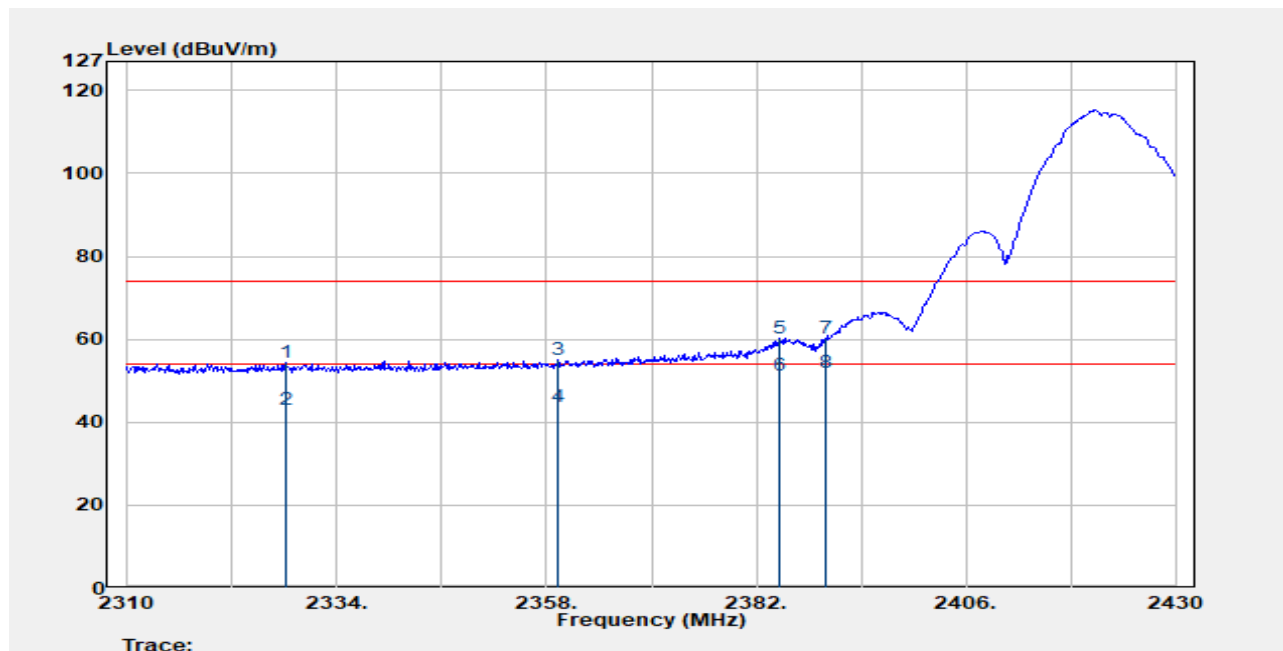
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2328.120	Peak	53.25	1.09	54.34	74.00	-19.66
2328.120	Average	41.76	1.09	42.85	54.00	-11.15
2359.320	Peak	53.96	0.98	54.94	74.00	-19.06
2359.320	Average	42.80	0.98	43.78	54.00	-10.22
2384.760	Peak	59.18	0.93	60.10	74.00	-13.90
2384.760	Average	50.46	0.93	51.39	54.00	-2.61
2390.000	Peak	59.18	0.92	60.09	74.00	-13.91
2390.000	Average	51.05	0.92	51.97	54.00	-2.03

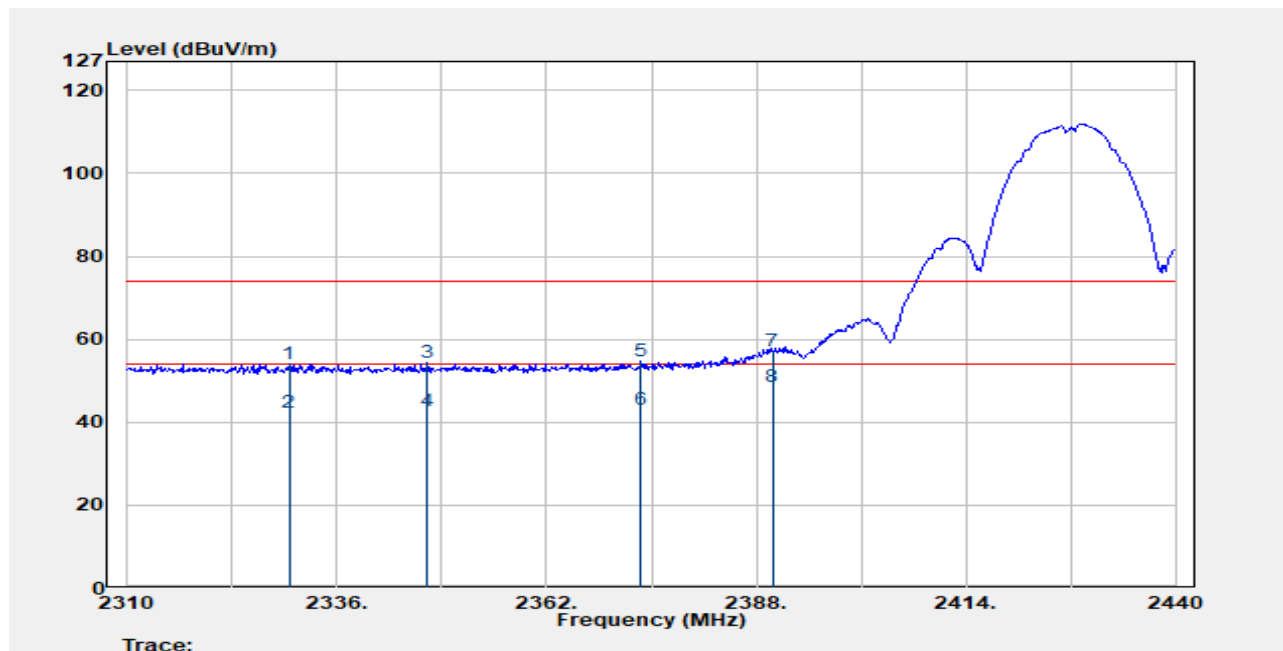
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2330.020	Peak	52.85	1.08	53.93	74.00	-20.07
2330.020	Average	41.28	1.08	42.36	54.00	-11.64
2347.180	Peak	53.19	1.01	54.21	74.00	-19.79
2347.180	Average	41.52	1.01	42.53	54.00	-11.47
2373.700	Peak	53.66	0.95	54.61	74.00	-19.39
2373.700	Average	42.15	0.95	43.10	54.00	-10.90
2390.000	Peak	56.12	0.92	57.03	74.00	-16.97
2390.000	Average	47.57	0.92	48.49	54.00	-5.51

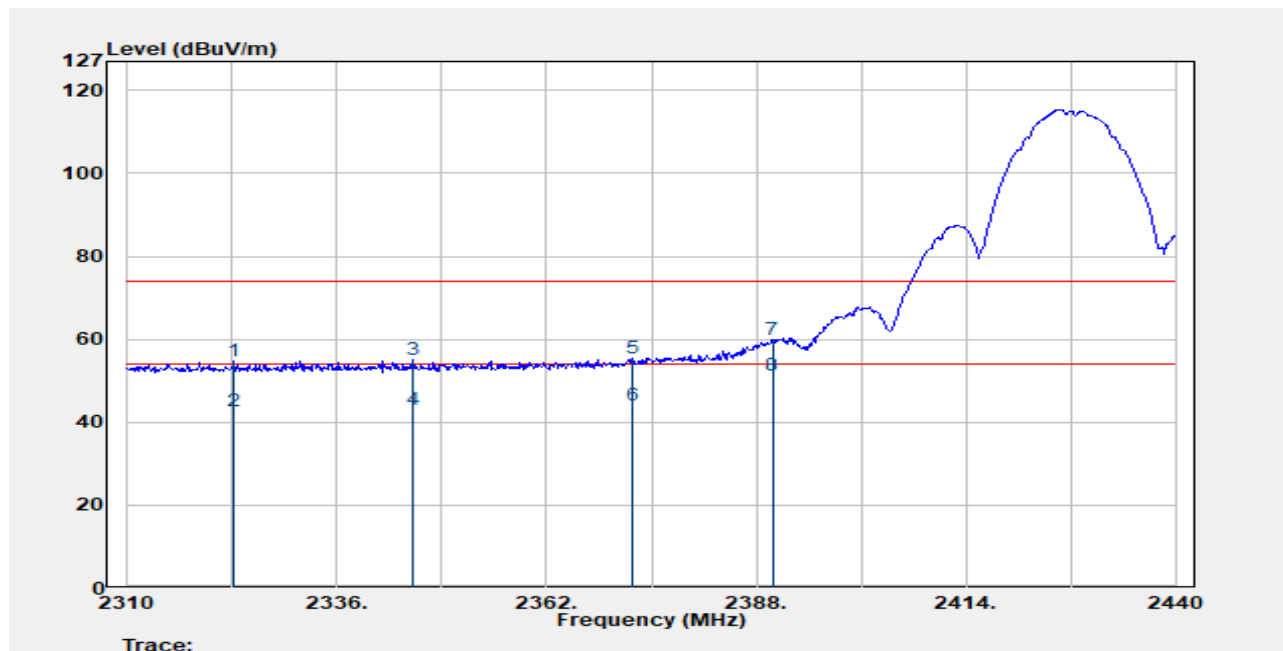
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2323.260	Peak	53.53	1.11	54.64	74.00	-19.36
2323.260	Average	41.44	1.11	42.55	54.00	-11.45
2345.360	Peak	54.12	1.02	55.14	74.00	-18.86
2345.360	Average	41.88	1.02	42.90	54.00	-11.10
2372.660	Peak	54.35	0.95	55.30	74.00	-18.70
2372.660	Average	43.08	0.95	44.03	54.00	-9.97
2390.000	Peak	58.84	0.92	59.76	74.00	-14.24
2390.000	Average	50.52	0.92	51.44	54.00	-2.56

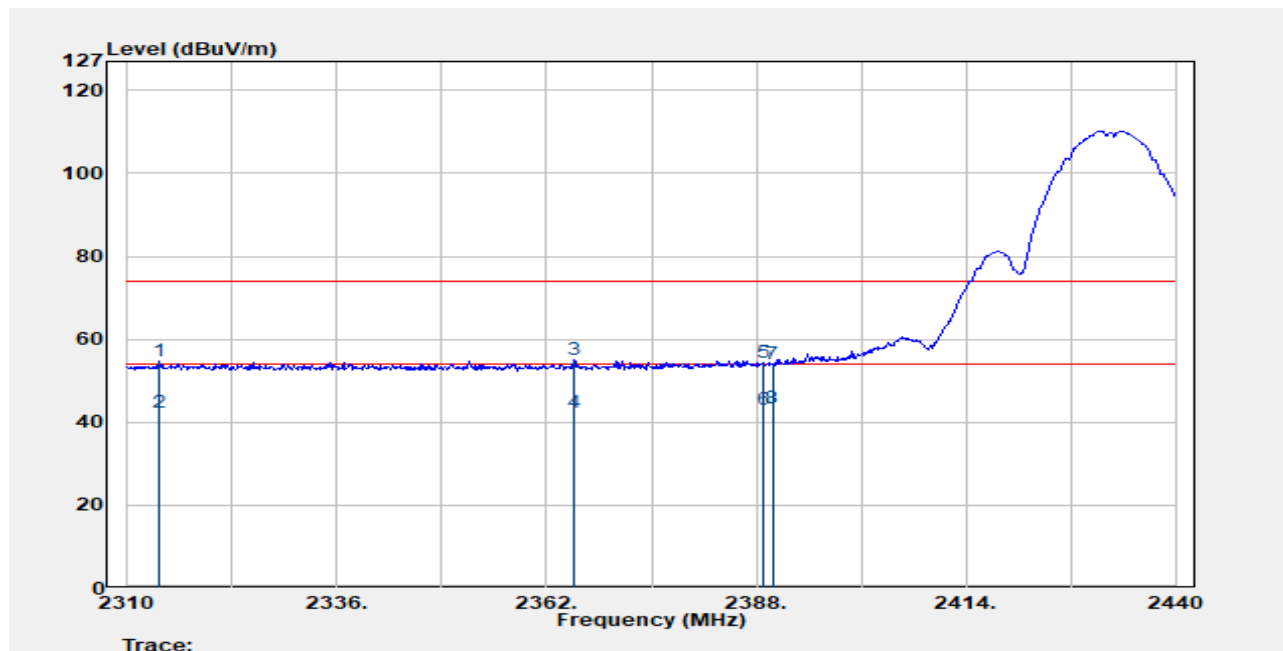
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2313.900	Peak	53.62	1.15	54.77	74.00	-19.23
2313.900	Average	41.13	1.15	42.28	54.00	-11.72
2365.380	Peak	53.97	0.97	54.94	74.00	-19.06
2365.380	Average	41.39	0.97	42.36	54.00	-11.64
2388.910	Peak	53.57	0.92	54.49	74.00	-19.51
2388.910	Average	42.24	0.92	43.16	54.00	-10.84
2390.000	Peak	53.18	0.92	54.10	74.00	-19.90
2390.000	Average	42.35	0.92	43.27	54.00	-10.73

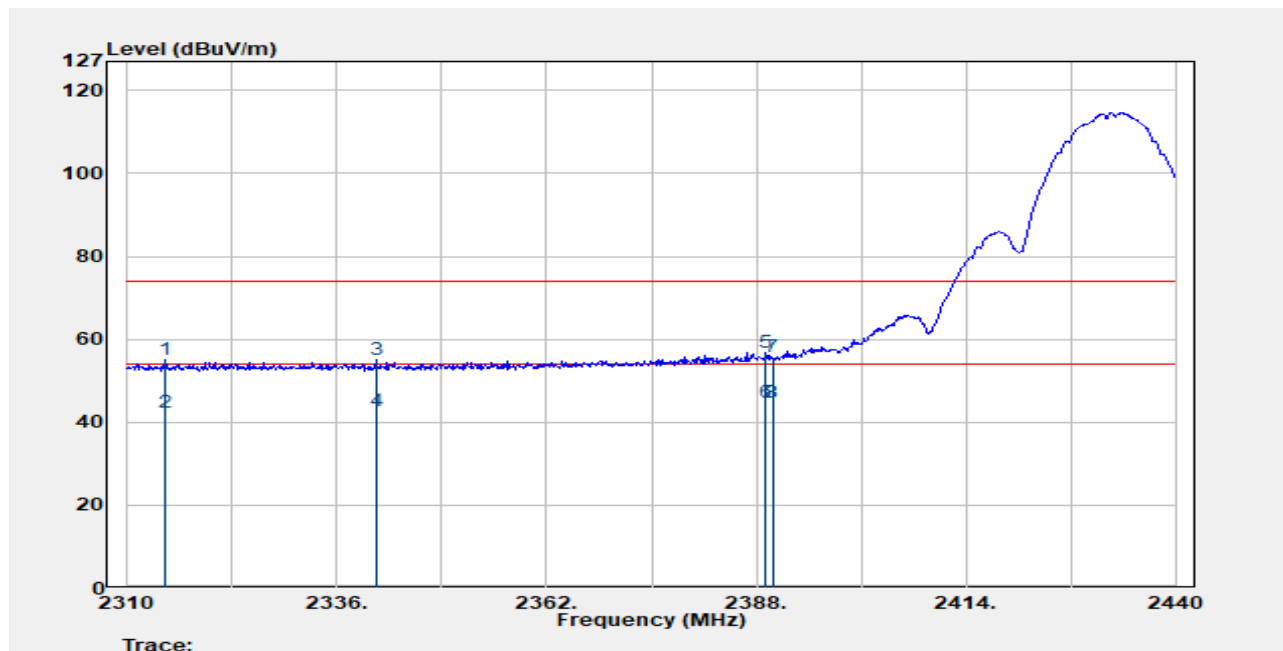
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2314.680	Peak	53.92	1.15	55.07	74.00	-18.93
2314.680	Average	41.28	1.15	42.43	54.00	-11.57
2340.810	Peak	53.88	1.04	54.92	74.00	-19.08
2340.810	Average	41.54	1.04	42.58	54.00	-11.42
2389.170	Peak	55.81	0.92	56.73	74.00	-17.27
2389.170	Average	43.93	0.92	44.85	54.00	-9.15
2390.000	Peak	54.84	0.92	55.75	74.00	-18.25
2390.000	Average	43.99	0.92	44.91	54.00	-9.09

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Report Number :ER-2021-90005

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

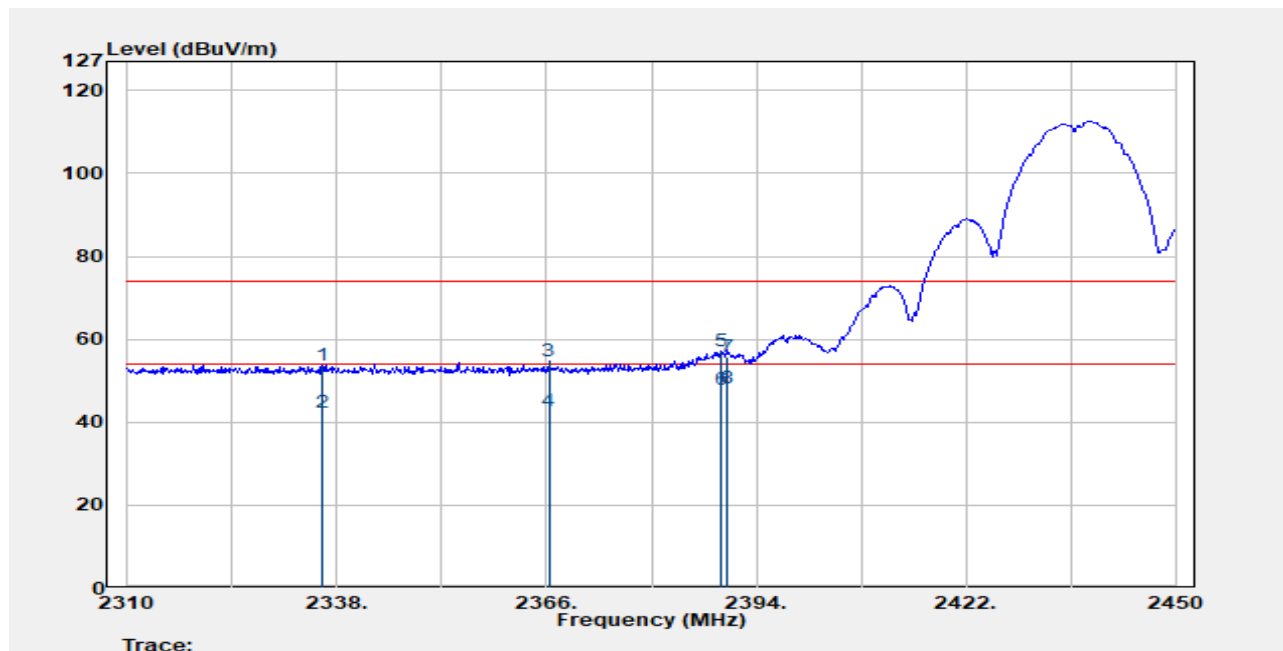
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Vertical

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2335.900	Peak	52.80	1.06	53.86	74.00	-20.14
2335.900	Average	41.21	1.06	42.27	54.00	-11.73
2366.280	Peak	53.61	0.97	54.58	74.00	-19.42
2366.280	Average	41.73	0.97	42.70	54.00	-11.30
2389.240	Peak	56.36	0.92	57.28	74.00	-16.72
2389.240	Average	47.01	0.92	47.93	54.00	-6.07
2390.000	Peak	54.82	0.92	55.74	74.00	-18.26
2390.000	Average	47.22	0.92	48.14	54.00	-5.86

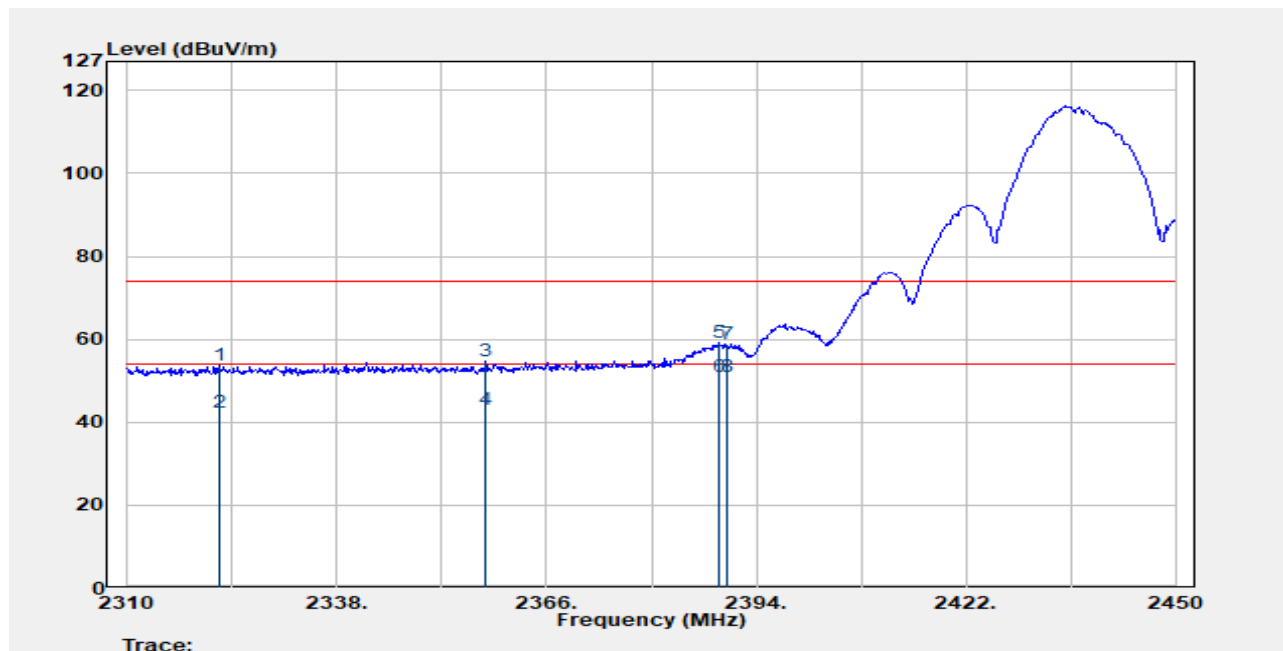
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2322.180	Peak	52.65	1.12	53.77	74.00	-20.23
2322.180	Average	41.33	1.12	42.45	54.00	-11.55
2357.880	Peak	53.79	0.98	54.78	74.00	-19.22
2357.880	Average	41.88	0.98	42.86	54.00	-11.14
2388.960	Peak	58.17	0.92	59.09	74.00	-14.91
2388.960	Average	50.02	0.92	50.94	54.00	-3.06
2390.000	Peak	58.10	0.92	59.02	74.00	-14.98
2390.000	Average	50.16	0.92	51.08	54.00	-2.92

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Report Number :ER-2021-90005

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

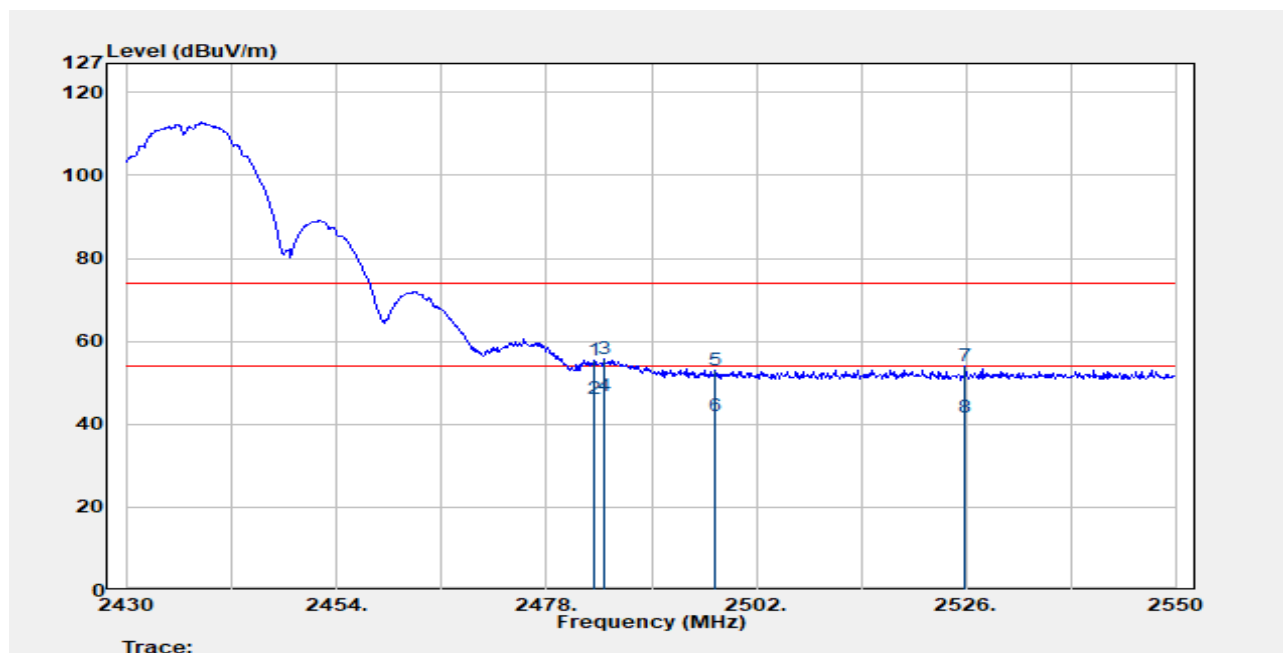
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Vertical

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.79	0.67	55.46	74.00	-18.54
2483.500	Average	45.31	0.67	45.98	54.00	-8.02
2484.480	Peak	54.96	0.67	55.62	74.00	-18.38
2484.480	Average	45.99	0.67	46.66	54.00	-7.34
2497.320	Peak	52.39	0.62	53.00	74.00	-21.00
2497.320	Average	41.39	0.62	42.01	54.00	-11.99
2525.880	Peak	53.32	0.71	54.03	74.00	-19.97
2525.880	Average	41.01	0.71	41.72	54.00	-12.28

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Report Number :ER-2021-90005

Operation Mode :802.11b

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

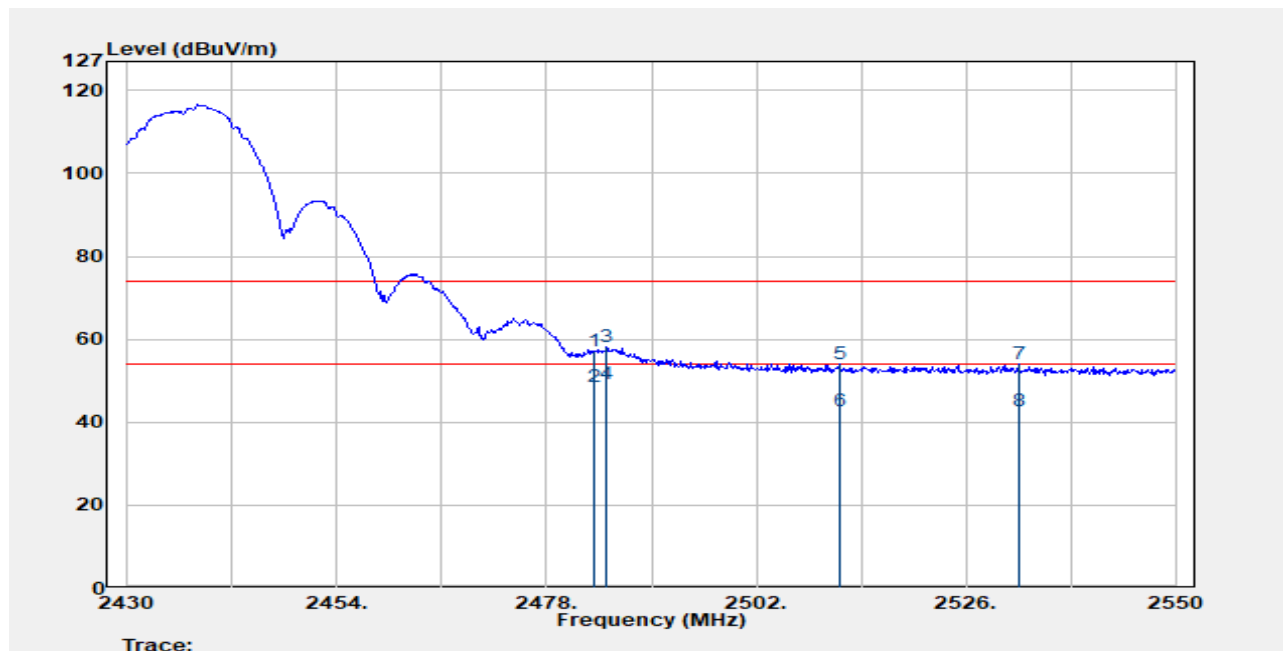
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Horizontal

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	56.38	0.67	57.05	74.00	-16.95
2483.500	Average	47.89	0.67	48.56	54.00	-5.44
2484.840	Peak	57.44	0.66	58.11	74.00	-15.89
2484.840	Average	48.58	0.66	49.24	54.00	-4.76
2511.480	Peak	53.50	0.65	54.15	74.00	-19.85
2511.480	Average	41.91	0.65	42.56	54.00	-11.44
2532.000	Peak	53.18	0.74	53.91	74.00	-20.09
2532.000	Average	41.90	0.74	42.64	54.00	-11.36

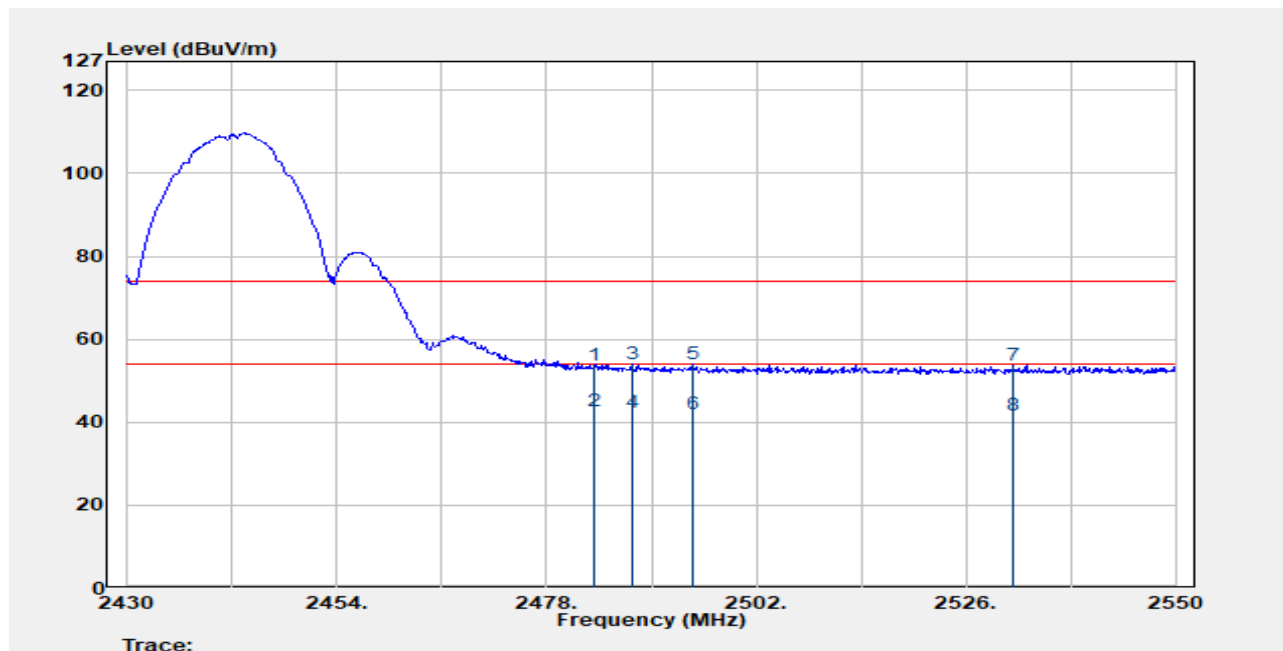
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.06	0.67	53.73	74.00	-20.27
2483.500	Average	41.96	0.67	42.63	54.00	-11.37
2487.720	Peak	53.53	0.65	54.18	74.00	-19.82
2487.720	Average	41.72	0.65	42.37	54.00	-11.63
2494.680	Peak	53.43	0.63	54.06	74.00	-19.94
2494.680	Average	41.44	0.63	42.07	54.00	-11.93
2531.520	Peak	52.91	0.73	53.65	74.00	-20.35
2531.520	Average	40.89	0.73	41.62	54.00	-12.38

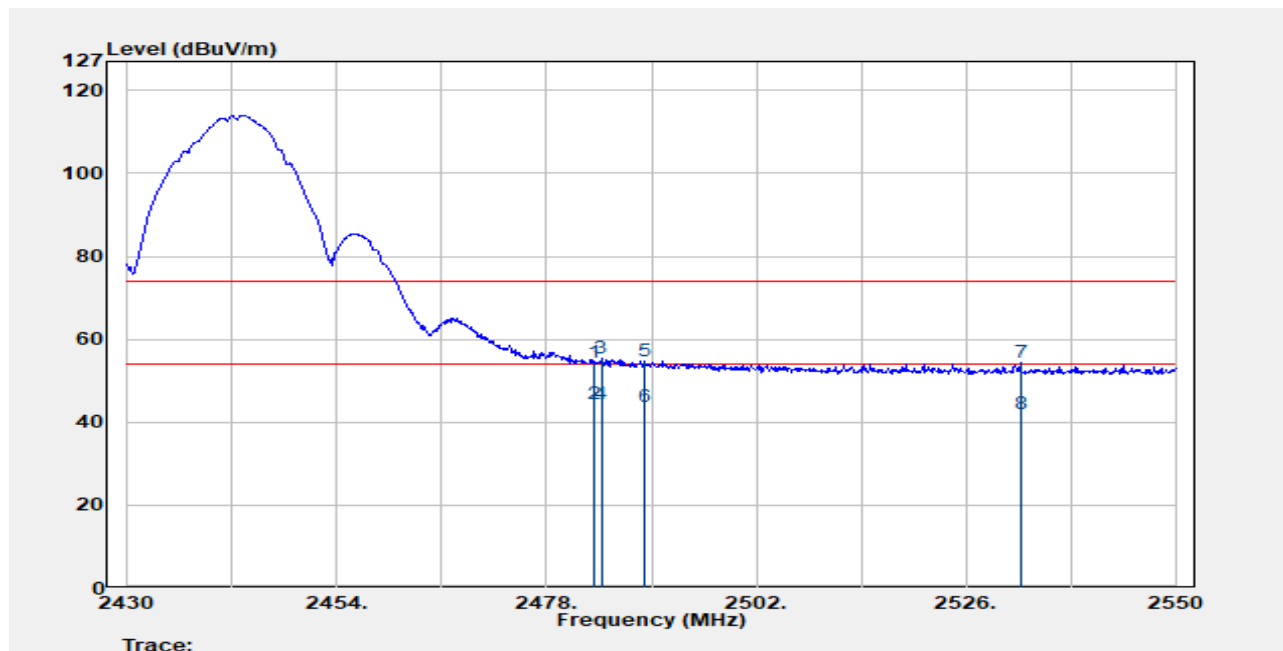
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.88	0.67	54.55	74.00	-19.45
2483.500	Average	43.82	0.67	44.49	54.00	-9.51
2484.240	Peak	54.89	0.67	55.56	74.00	-18.44
2484.240	Average	43.72	0.67	44.39	54.00	-9.61
2489.280	Peak	54.15	0.65	54.80	74.00	-19.20
2489.280	Average	43.16	0.65	43.81	54.00	-10.19
2532.240	Peak	53.59	0.74	54.33	74.00	-19.67
2532.240	Average	41.37	0.74	42.11	54.00	-11.89

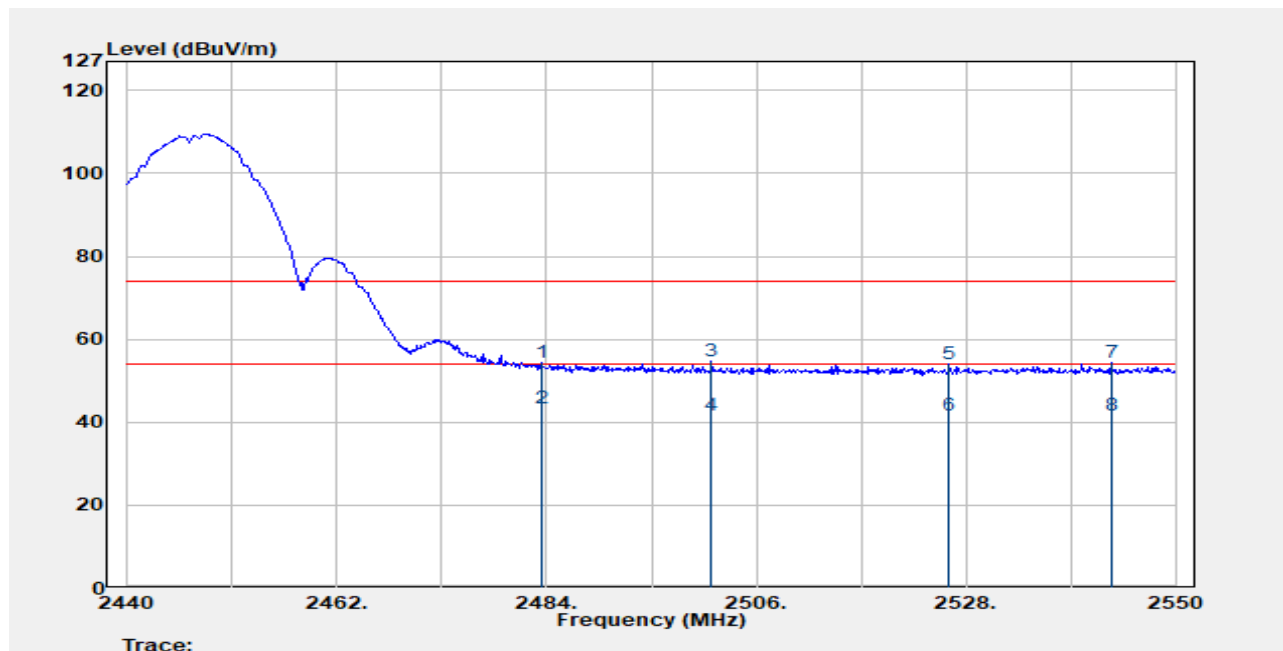
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.55	0.67	54.22	74.00	-19.78
2483.500	Average	42.68	0.67	43.35	54.00	-10.65
2501.270	Peak	54.20	0.61	54.81	74.00	-19.19
2501.270	Average	41.19	0.61	41.80	54.00	-12.20
2526.240	Peak	53.34	0.71	54.05	74.00	-19.95
2526.240	Average	40.91	0.71	41.62	54.00	-12.38
2543.290	Peak	53.76	0.78	54.54	74.00	-19.46
2543.290	Average	40.88	0.78	41.66	54.00	-12.34

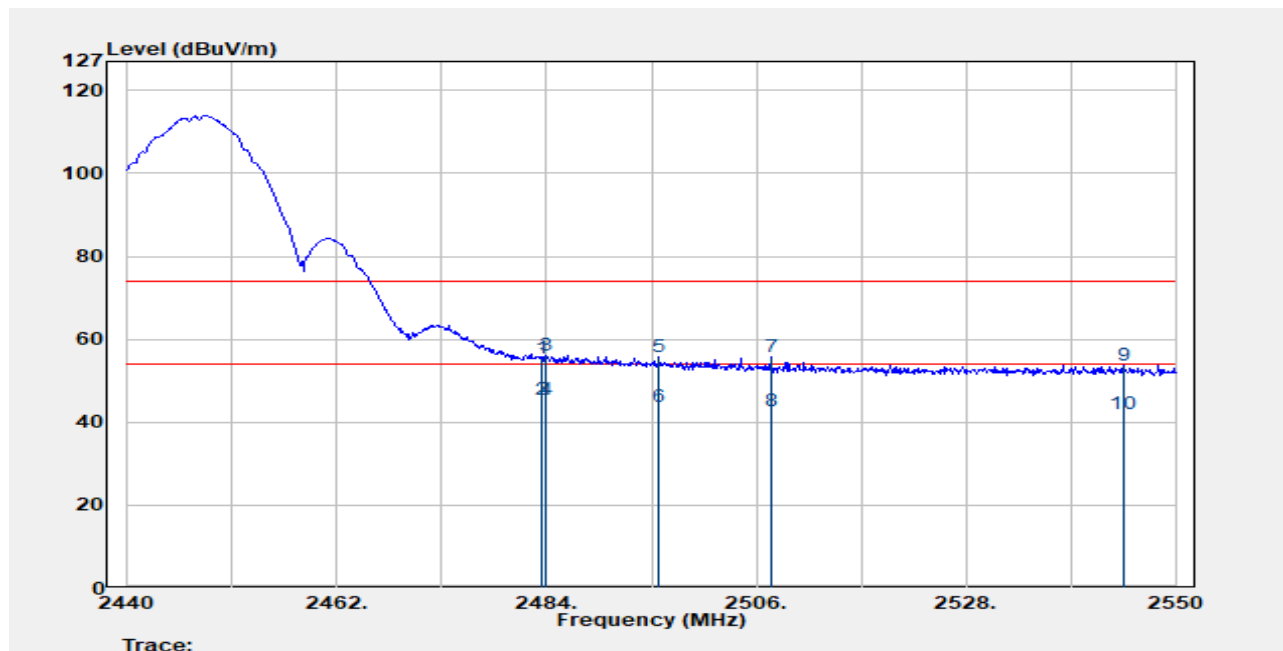
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	54.75	0.67	55.42	74.00	-18.58
2483.500	Average	44.92	0.67	45.59	54.00	-8.41
2484.000	Peak	55.56	0.67	56.23	74.00	-17.77
2484.000	Average	44.75	0.67	45.42	54.00	-8.58
2495.770	Peak	55.26	0.62	55.88	74.00	-18.12
2495.770	Average	43.07	0.62	43.69	54.00	-10.31
2507.540	Peak	55.07	0.64	55.71	74.00	-18.29
2507.540	Average	42.11	0.64	42.75	54.00	-11.25
2544.500	Peak	52.91	0.79	53.69	74.00	-20.31
2544.500	Average	41.21	0.79	42.00	54.00	-12.00

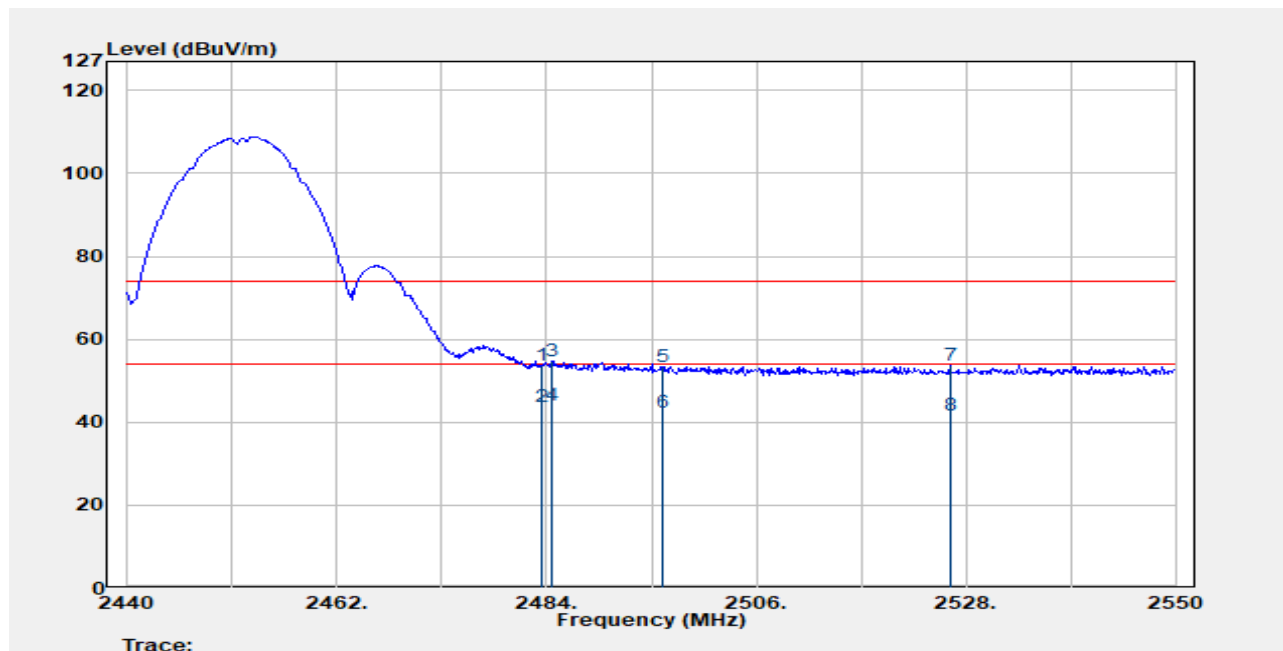
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	53.12	0.67	53.79	74.00	-20.21
2483.500	Average	43.16	0.67	43.83	54.00	-10.17
2484.440	Peak	54.18	0.67	54.85	74.00	-19.15
2484.440	Average	43.49	0.67	44.16	54.00	-9.84
2496.100	Peak	52.75	0.62	53.37	74.00	-20.63
2496.100	Average	41.85	0.62	42.47	54.00	-11.53
2526.350	Peak	52.91	0.71	53.62	74.00	-20.38
2526.350	Average	40.99	0.71	41.70	54.00	-12.30

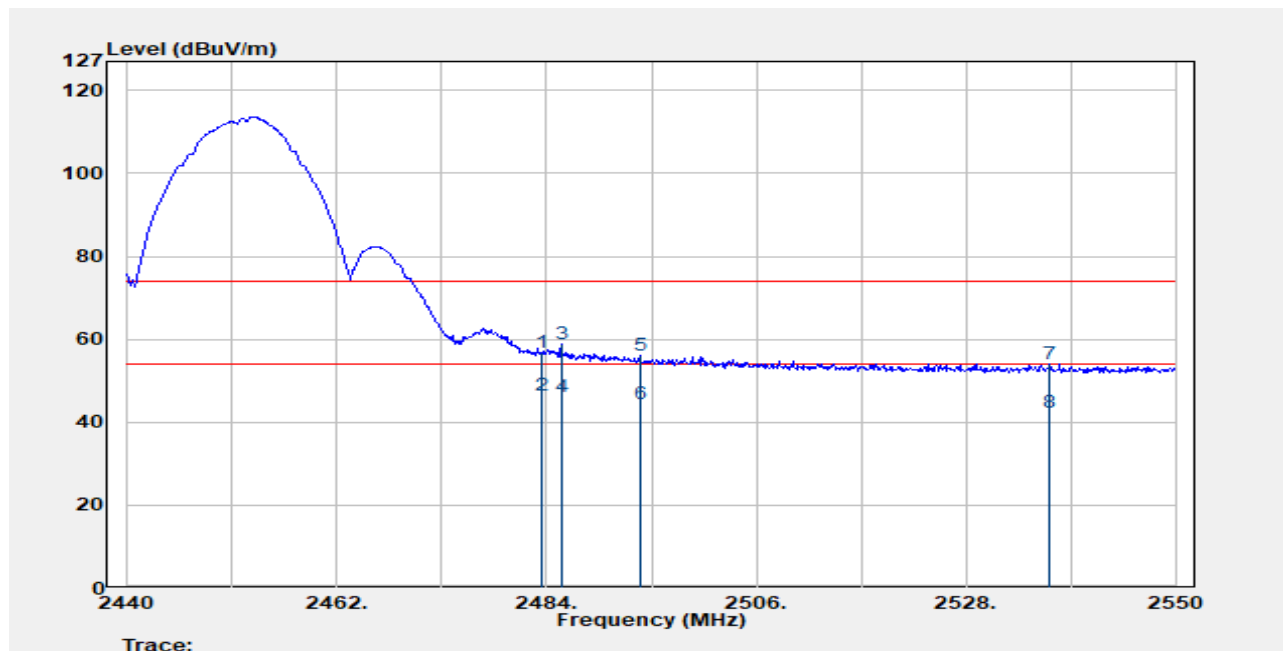
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	56.09	0.67	56.76	74.00	-17.24
2483.500	Average	45.83	0.67	46.50	54.00	-7.50
2485.540	Peak	58.08	0.66	58.74	74.00	-15.26
2485.540	Average	45.53	0.66	46.19	54.00	-7.81
2493.790	Peak	55.44	0.63	56.07	74.00	-17.93
2493.790	Average	43.79	0.63	44.42	54.00	-9.58
2536.800	Peak	53.34	0.76	54.10	74.00	-19.90
2536.800	Average	41.46	0.76	42.22	54.00	-11.78

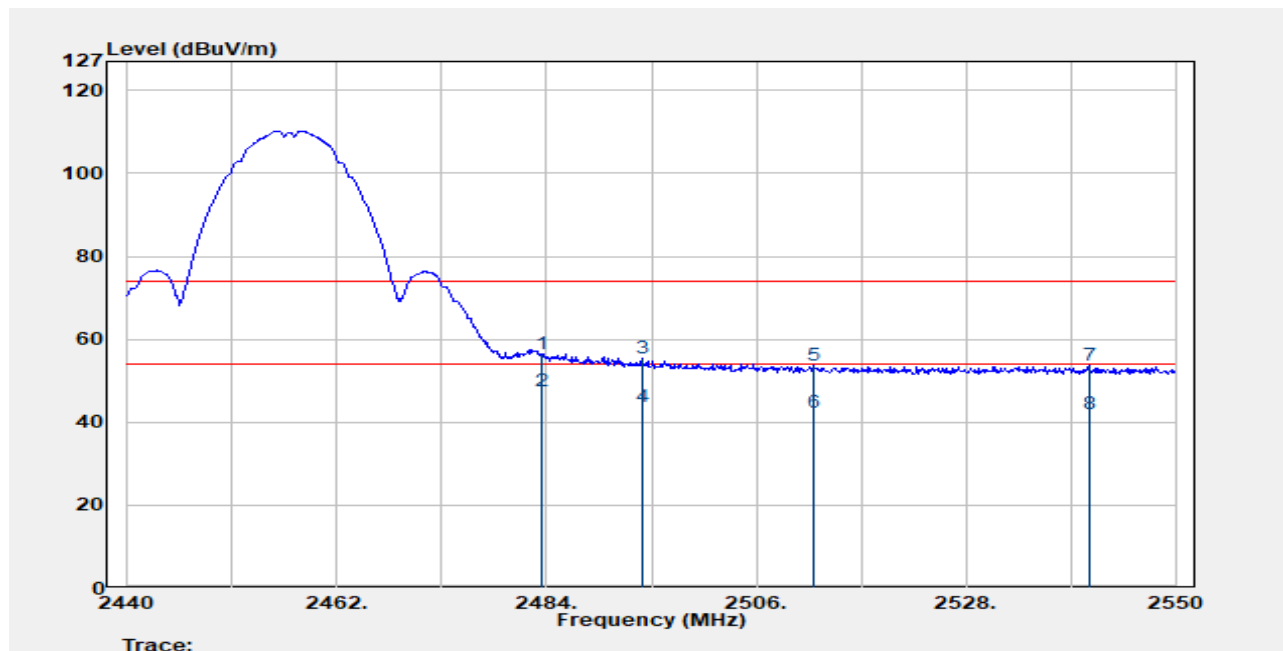
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	55.83	0.67	56.50	74.00	-17.50
2483.500	Average	46.68	0.67	47.35	54.00	-6.65
2494.010	Peak	54.70	0.63	55.33	74.00	-18.67
2494.010	Average	43.16	0.63	43.79	54.00	-10.21
2511.940	Peak	53.15	0.65	53.80	74.00	-20.20
2511.940	Average	41.62	0.65	42.27	54.00	-11.73
2540.980	Peak	52.78	0.77	53.55	74.00	-20.45
2540.980	Average	41.12	0.77	41.89	54.00	-12.11

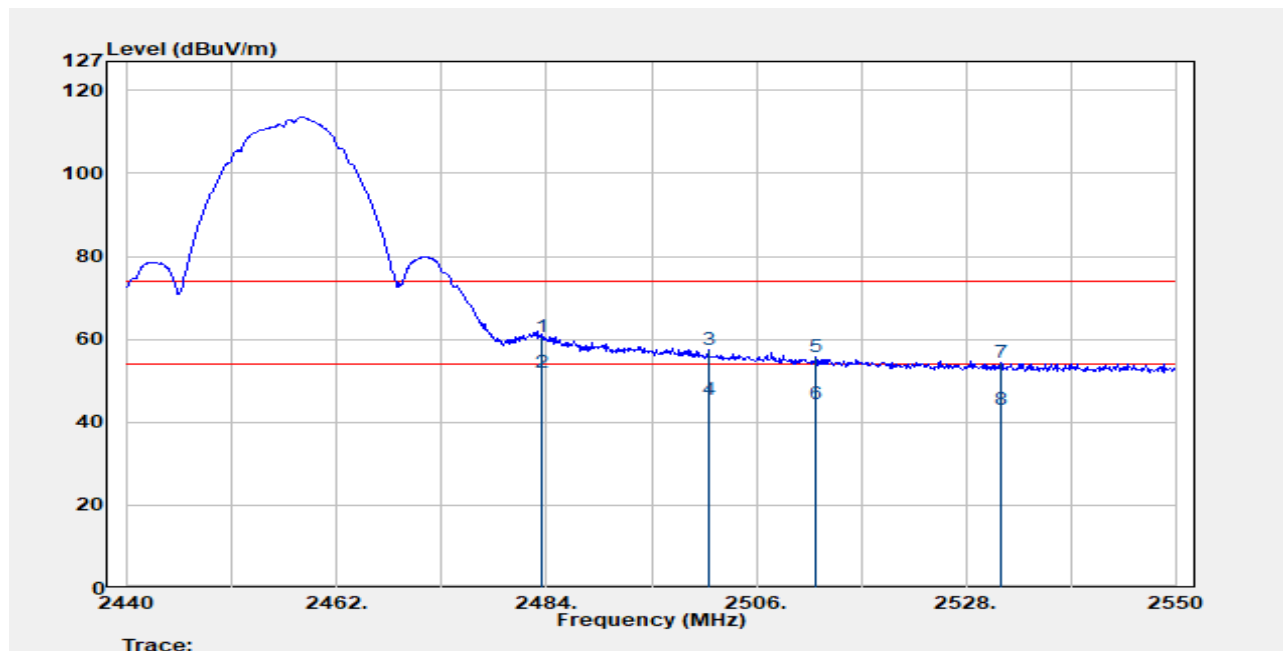
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	59.95	0.67	60.62	74.00	-13.38
2483.500	Average	51.18	0.67	51.85	54.00	-2.15
2500.940	Peak	56.82	0.61	57.43	74.00	-16.57
2500.940	Average	44.90	0.61	45.51	54.00	-8.49
2512.270	Peak	55.18	0.66	55.84	74.00	-18.16
2512.270	Average	43.60	0.66	44.26	54.00	-9.74
2531.740	Peak	53.80	0.74	54.54	74.00	-19.46
2531.740	Average	42.31	0.74	43.05	54.00	-10.95

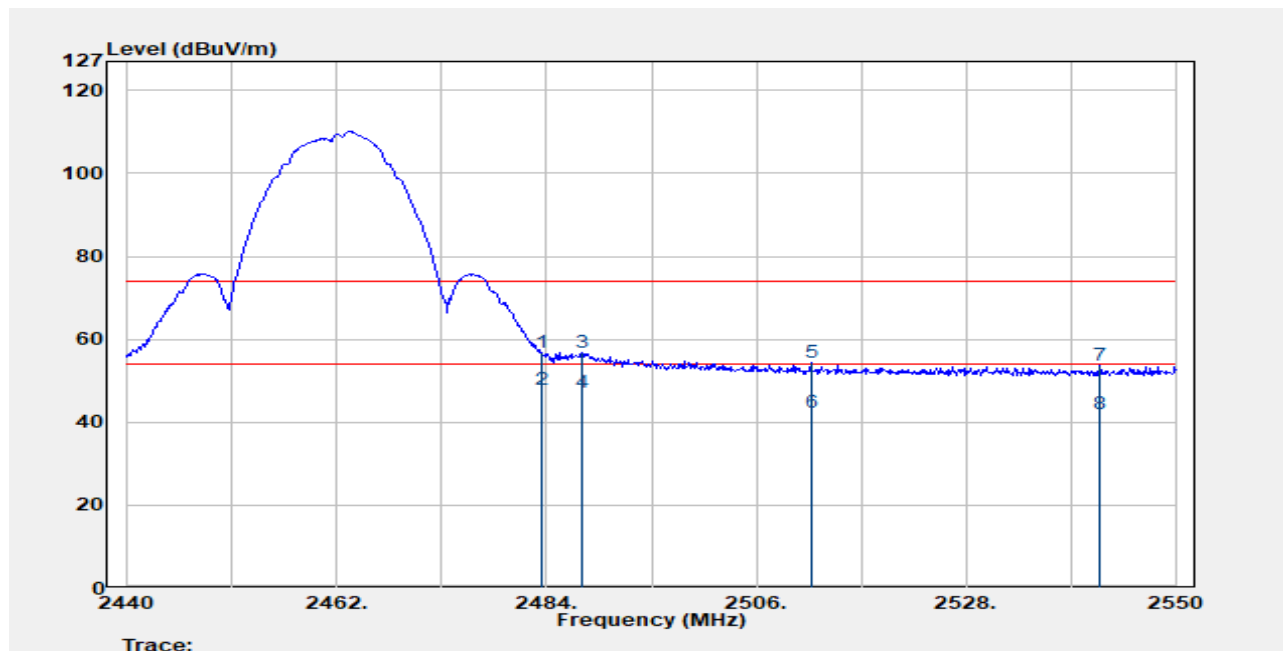
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	55.98	0.67	56.65	74.00	-17.35
2483.500	Average	47.14	0.67	47.81	54.00	-6.19
2487.630	Peak	56.08	0.65	56.73	74.00	-17.27
2487.630	Average	46.46	0.65	47.11	54.00	-6.89
2511.720	Peak	53.79	0.65	54.44	74.00	-19.56
2511.720	Average	41.59	0.65	42.24	54.00	-11.76
2541.970	Peak	52.81	0.78	53.58	74.00	-20.42
2541.970	Average	41.11	0.78	41.89	54.00	-12.11

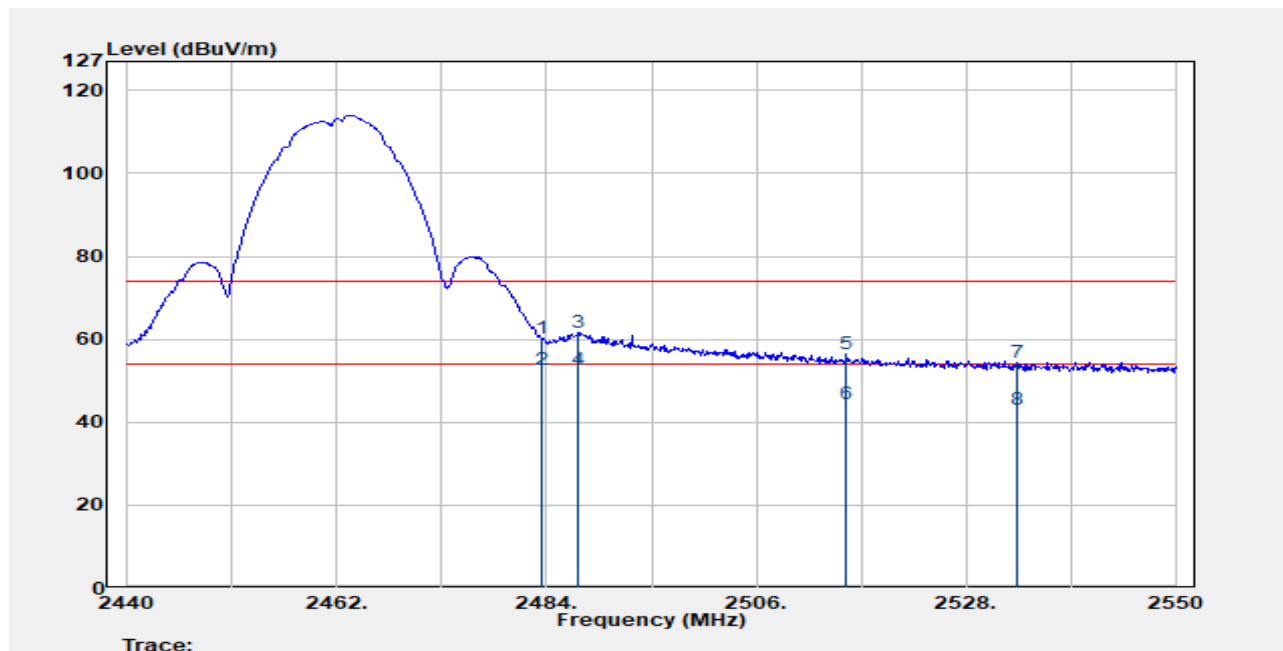
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	59.59	0.67	60.26	74.00	-13.74
2483.500	Average	52.13	0.67	52.80	54.00	-1.20
2487.300	Peak	60.97	0.65	61.63	74.00	-12.37
2487.300	Average	51.99	0.65	52.64	54.00	-1.36
2515.460	Peak	55.90	0.67	56.57	74.00	-17.43
2515.460	Average	43.80	0.67	44.47	54.00	-9.53
2533.390	Peak	53.80	0.74	54.54	74.00	-19.46
2533.390	Average	42.37	0.74	43.11	54.00	-10.89

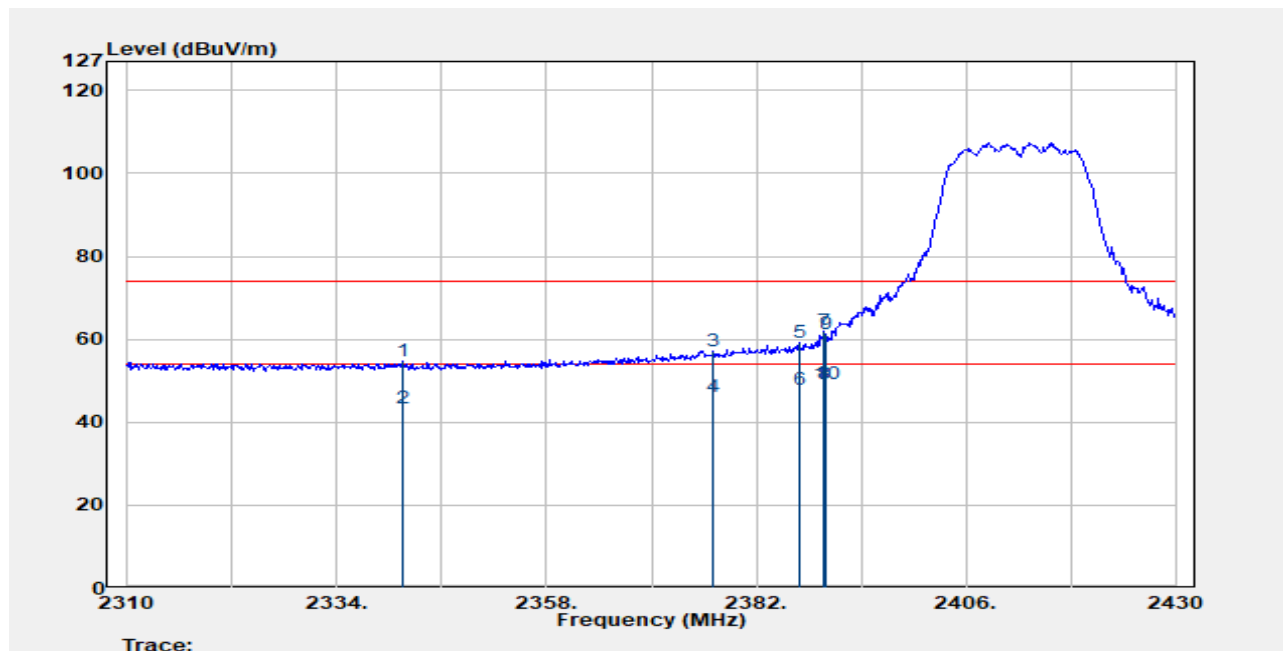
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2341.440	Peak	53.82	1.04	54.86	74.00	-19.14
2341.440	Average	42.19	1.04	43.23	54.00	-10.77
2377.080	Peak	56.20	0.94	57.14	74.00	-16.86
2377.080	Average	45.33	0.94	46.27	54.00	-7.73
2386.920	Peak	58.27	0.92	59.19	74.00	-14.81
2386.920	Average	46.79	0.92	47.71	54.00	-6.29
2389.800	Peak	60.95	0.92	61.86	74.00	-12.14
2389.800	Average	48.42	0.92	49.34	54.00	-4.66
2390.000	Peak	60.22	0.92	61.13	74.00	-12.87
2390.000	Average	48.43	0.92	49.35	54.00	-4.65

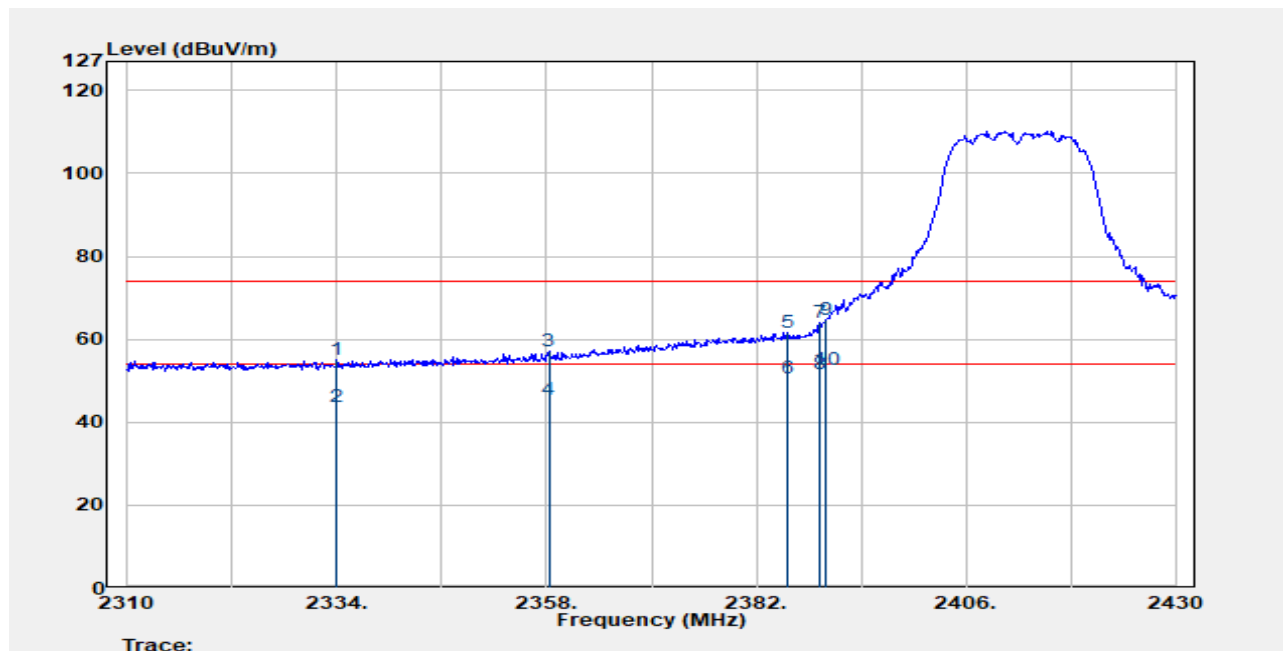
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2334.000	Peak	53.93	1.07	54.99	74.00	-19.01
2334.000	Average	42.78	1.07	43.85	54.00	-10.15
2358.240	Peak	55.99	0.98	56.97	74.00	-17.03
2358.240	Average	44.52	0.98	45.50	54.00	-8.50
2385.480	Peak	60.60	0.93	61.52	74.00	-12.48
2385.480	Average	49.56	0.93	50.49	54.00	-3.51
2389.200	Peak	63.16	0.92	64.07	74.00	-9.93
2389.200	Average	50.78	0.92	51.70	54.00	-2.30
2390.000	Peak	63.67	0.92	64.59	74.00	-9.41
2390.000	Average	51.86	0.92	52.78	54.00	-1.22

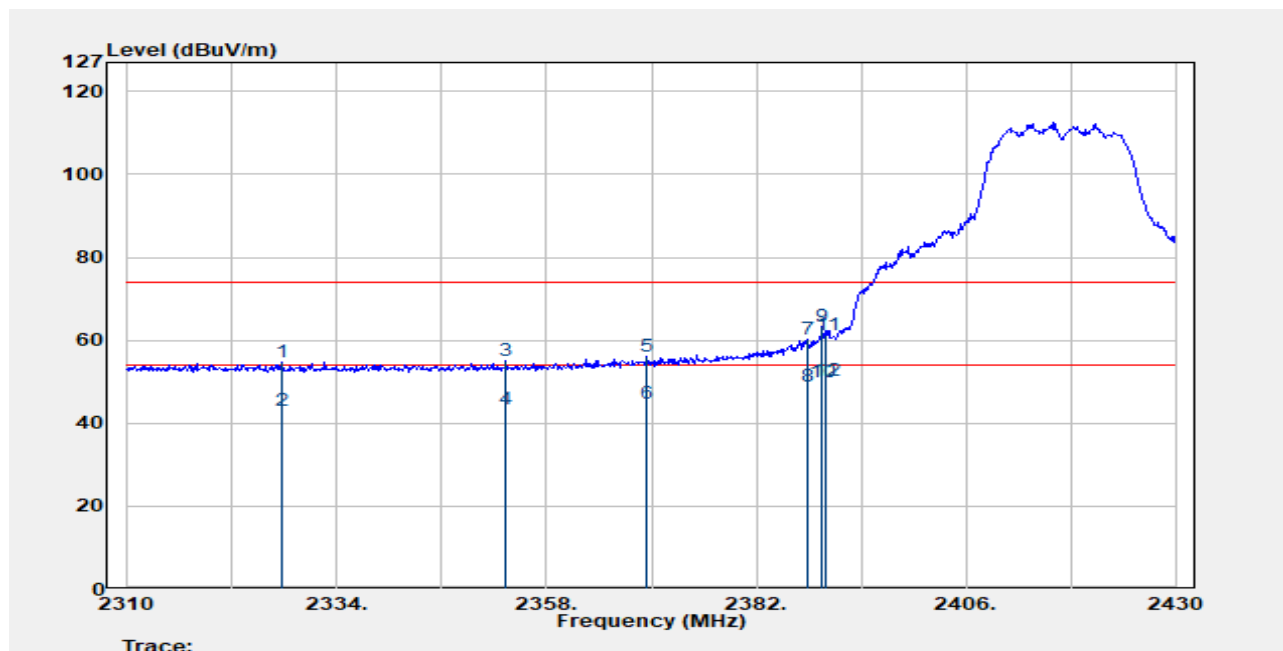
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2327.640	Peak	53.53	1.09	54.62	74.00	-19.38
2327.640	Average	41.85	1.09	42.94	54.00	-11.06
2353.320	Peak	54.05	0.99	55.05	74.00	-18.95
2353.320	Average	42.39	0.99	43.38	54.00	-10.62
2369.520	Peak	55.17	0.96	56.13	74.00	-17.87
2369.520	Average	43.79	0.96	44.75	54.00	-9.25
2387.880	Peak	59.39	0.92	60.31	74.00	-13.69
2387.880	Average	47.92	0.92	48.84	54.00	-5.16
2389.560	Peak	62.55	0.92	63.46	74.00	-10.54
2389.560	Average	48.95	0.92	49.87	54.00	-4.13
2390.000	Peak	60.28	0.92	61.20	74.00	-12.80
2390.000	Average	49.35	0.92	50.27	54.00	-3.73

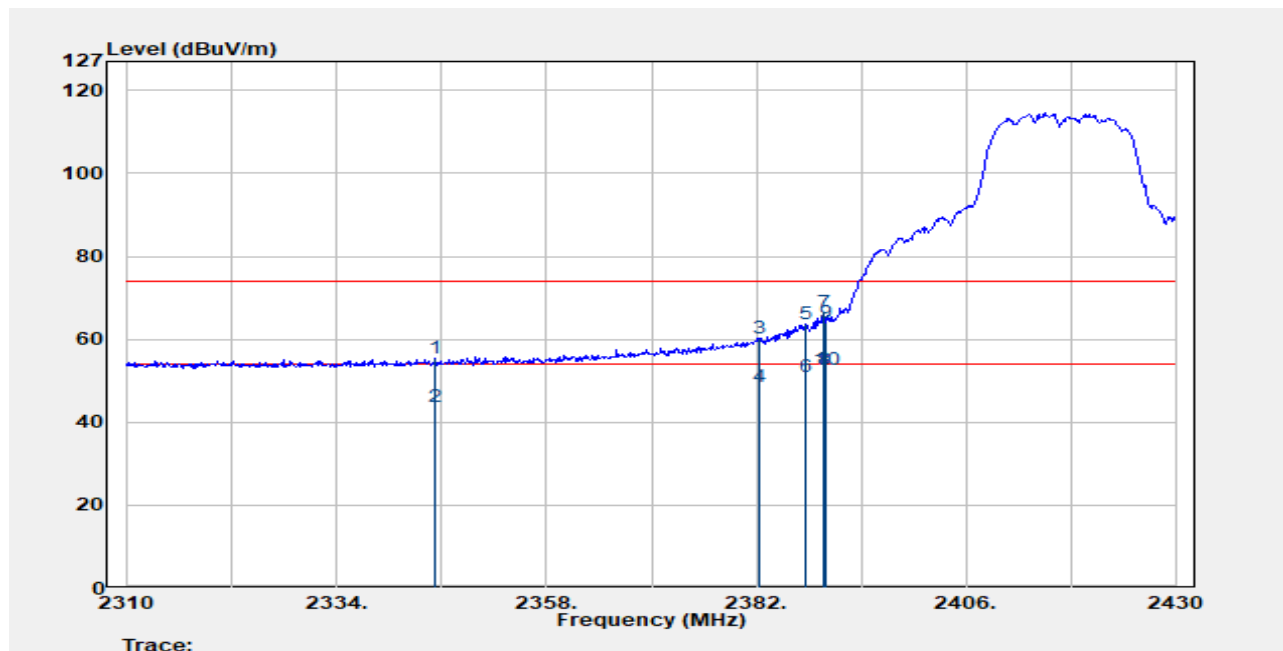
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2345.280	Peak	54.33	1.02	55.36	74.00	-18.64
2345.280	Average	42.75	1.02	43.77	54.00	-10.23
2382.240	Peak	59.44	0.93	60.37	74.00	-13.63
2382.240	Average	47.66	0.93	48.59	54.00	-5.41
2387.640	Peak	62.83	0.92	63.76	74.00	-10.24
2387.640	Average	50.11	0.92	51.03	54.00	-2.97
2389.800	Peak	65.36	0.92	66.28	74.00	-7.72
2389.800	Average	51.66	0.92	52.58	54.00	-1.42
2390.000	Peak	63.19	0.92	64.11	74.00	-9.89
2390.000	Average	51.63	0.92	52.55	54.00	-1.45

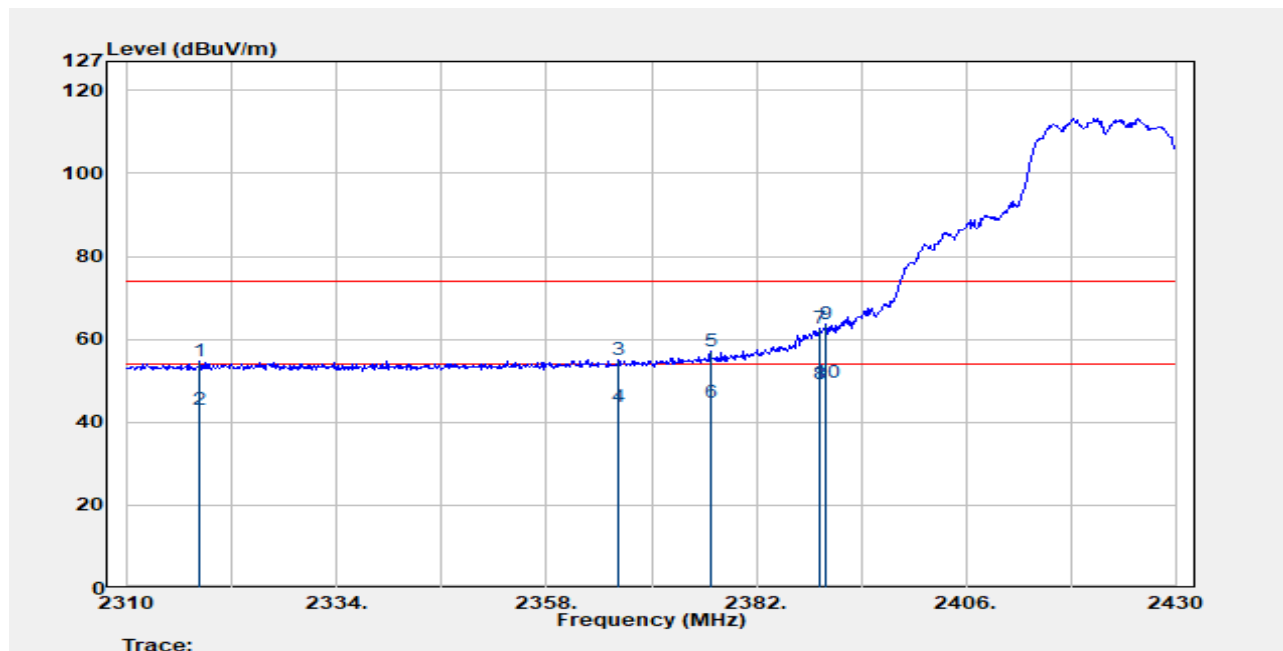
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2318.280	Peak	53.64	1.13	54.78	74.00	-19.22
2318.280	Average	41.82	1.13	42.95	54.00	-11.05
2366.280	Peak	54.15	0.97	55.12	74.00	-18.88
2366.280	Average	42.81	0.97	43.78	54.00	-10.22
2376.720	Peak	56.25	0.94	57.19	74.00	-16.81
2376.720	Average	43.92	0.94	44.86	54.00	-9.14
2389.320	Peak	61.85	0.92	62.76	74.00	-11.24
2389.320	Average	48.23	0.92	49.15	54.00	-4.85
2390.000	Peak	62.81	0.92	63.73	74.00	-10.27
2390.000	Average	48.69	0.92	49.61	54.00	-4.39

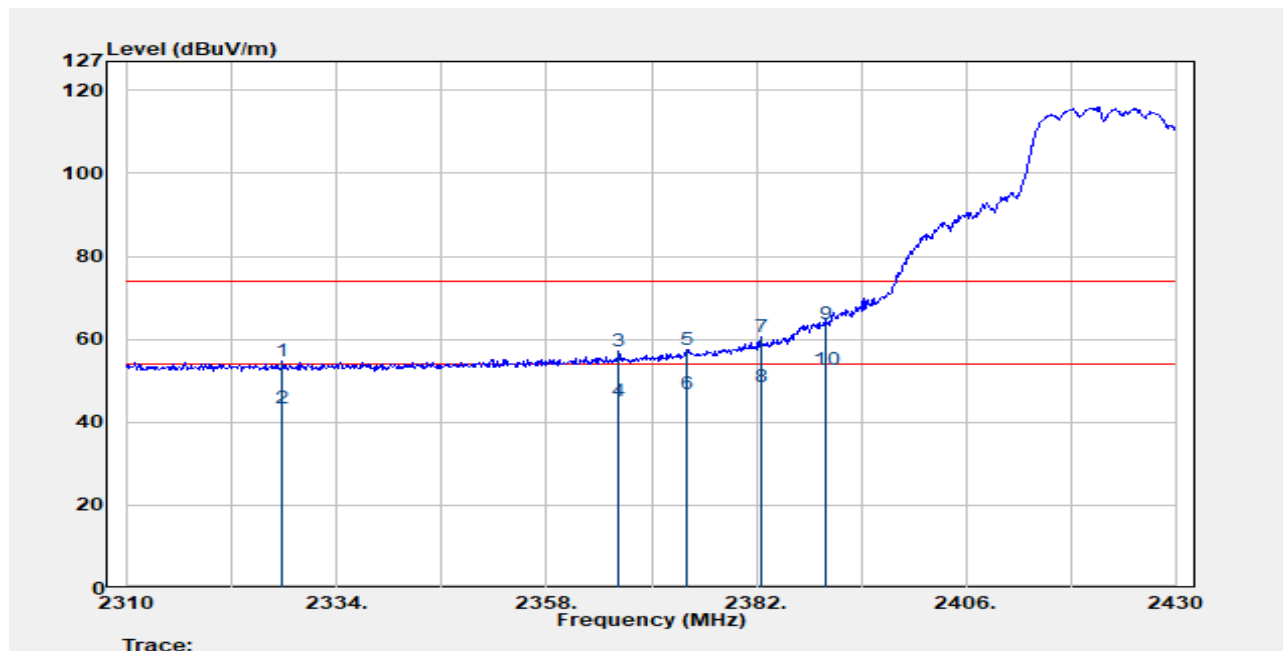
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2327.760	Peak	53.55	1.09	54.64	74.00	-19.36
2327.760	Average	42.26	1.09	43.35	54.00	-10.65
2366.280	Peak	56.15	0.97	57.12	74.00	-16.88
2366.280	Average	44.26	0.97	45.23	54.00	-8.77
2373.960	Peak	56.68	0.95	57.63	74.00	-16.37
2373.960	Average	45.83	0.95	46.78	54.00	-7.22
2382.480	Peak	59.51	0.93	60.44	74.00	-13.56
2382.480	Average	47.43	0.93	48.36	54.00	-5.64
2390.000	Peak	62.66	0.92	63.58	74.00	-10.42
2390.000	Average	51.66	0.92	52.58	54.00	-1.42

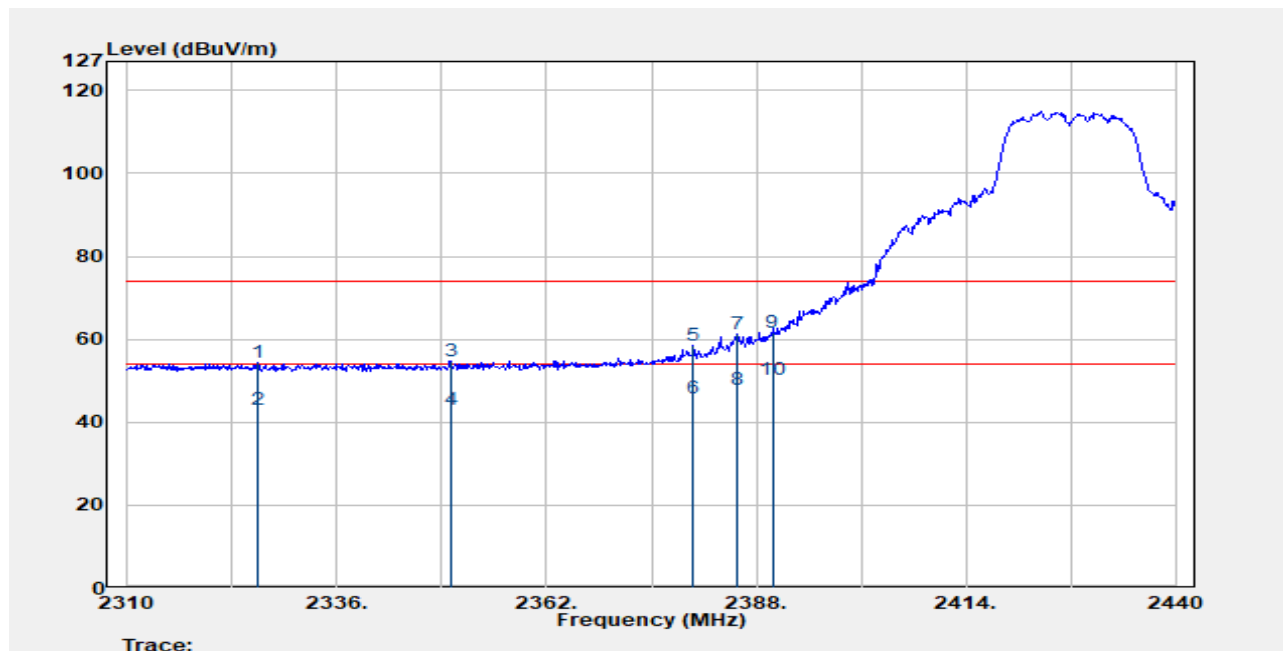
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2326.120	Peak	53.28	1.10	54.38	74.00	-19.62
2326.120	Average	41.96	1.10	43.06	54.00	-10.94
2350.040	Peak	53.88	1.00	54.89	74.00	-19.11
2350.040	Average	42.07	1.00	43.07	54.00	-10.93
2380.200	Peak	57.50	0.94	58.44	74.00	-15.56
2380.200	Average	44.79	0.94	45.73	54.00	-8.27
2385.530	Peak	60.38	0.93	61.30	74.00	-12.70
2385.530	Average	46.79	0.93	47.72	54.00	-6.28
2390.000	Peak	60.52	0.92	61.44	74.00	-12.56
2390.000	Average	49.26	0.92	50.18	54.00	-3.82

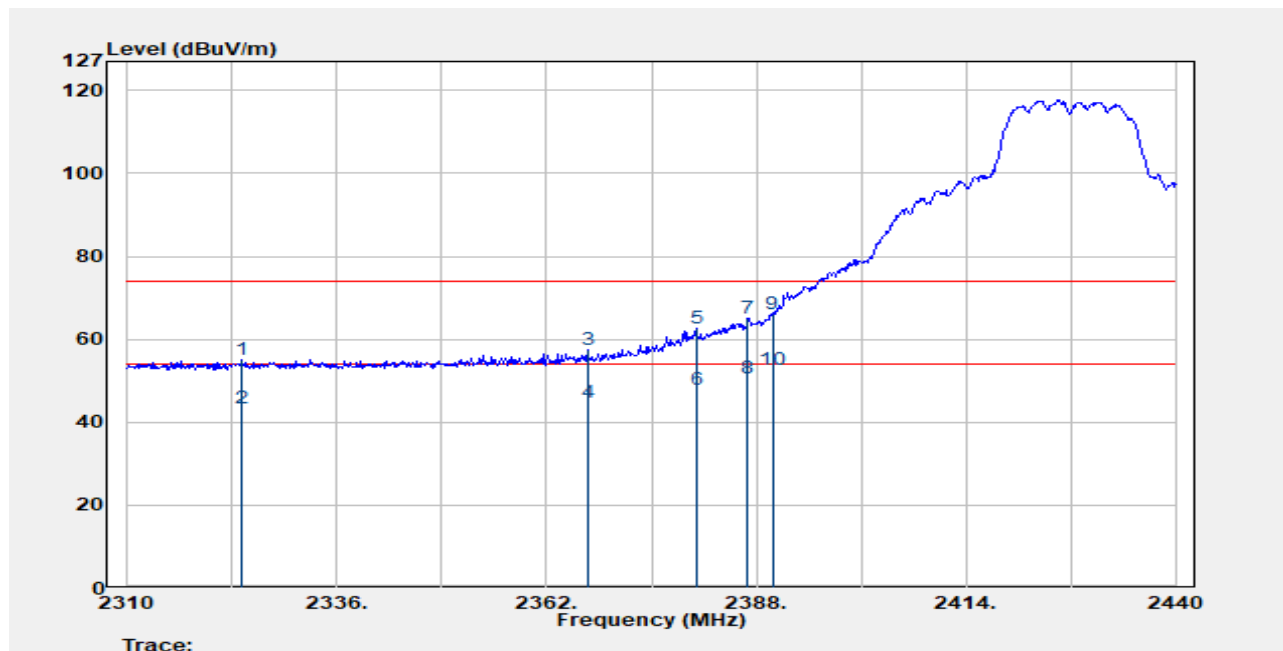
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2324.170	Peak	54.07	1.11	55.18	74.00	-18.82
2324.170	Average	42.29	1.11	43.40	54.00	-10.60
2367.070	Peak	56.45	0.96	57.42	74.00	-16.58
2367.070	Average	43.72	0.96	44.68	54.00	-9.32
2380.590	Peak	61.83	0.94	62.76	74.00	-11.24
2380.590	Average	46.88	0.94	47.82	54.00	-6.18
2386.960	Peak	64.00	0.92	64.92	74.00	-9.08
2386.960	Average	49.51	0.92	50.43	54.00	-3.57
2390.000	Peak	65.22	0.92	66.14	74.00	-7.86
2390.000	Average	51.59	0.92	52.51	54.00	-1.49

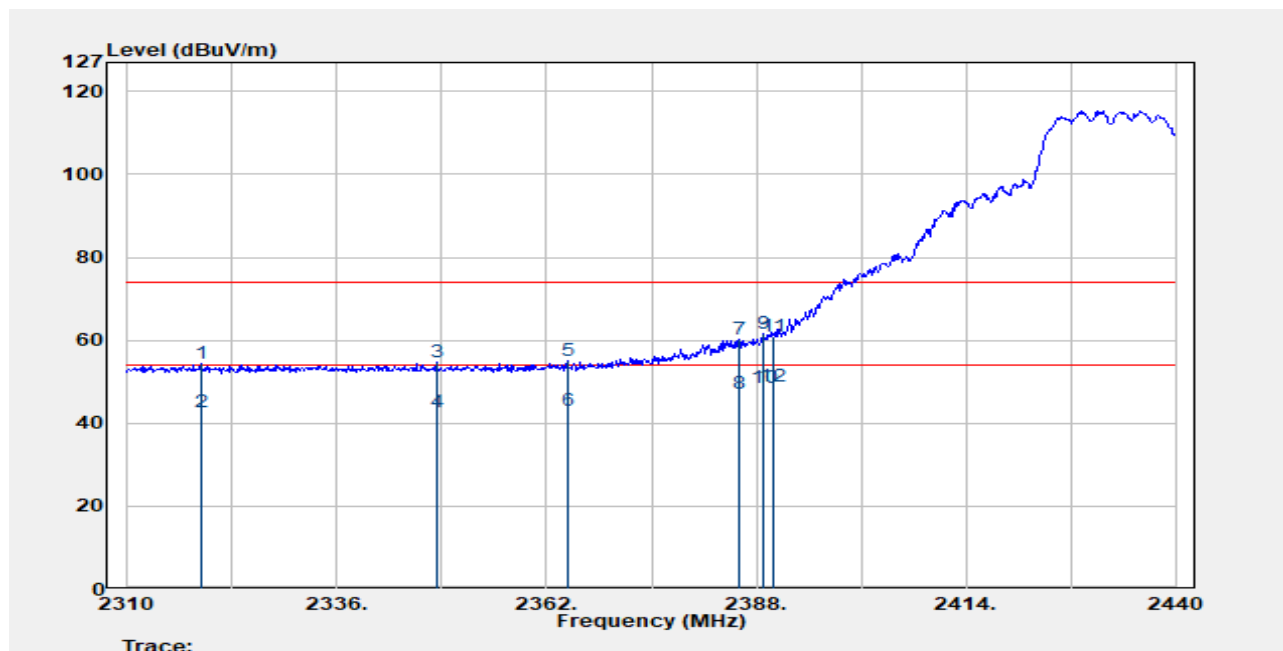
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2319.100	Peak	53.14	1.13	54.27	74.00	-19.73
2319.100	Average	41.69	1.13	42.82	54.00	-11.18
2348.350	Peak	53.76	1.01	54.77	74.00	-19.23
2348.350	Average	41.78	1.01	42.79	54.00	-11.21
2364.600	Peak	54.25	0.97	55.22	74.00	-18.78
2364.600	Average	42.08	0.97	43.05	54.00	-10.95
2385.790	Peak	59.27	0.92	60.20	74.00	-13.80
2385.790	Average	46.25	0.92	47.17	54.00	-6.83
2388.780	Peak	60.77	0.92	61.68	74.00	-12.32
2388.780	Average	47.48	0.92	48.40	54.00	-5.60
2390.000	Peak	60.02	0.92	60.93	74.00	-13.07
2390.000	Average	48.02	0.92	48.94	54.00	-5.06

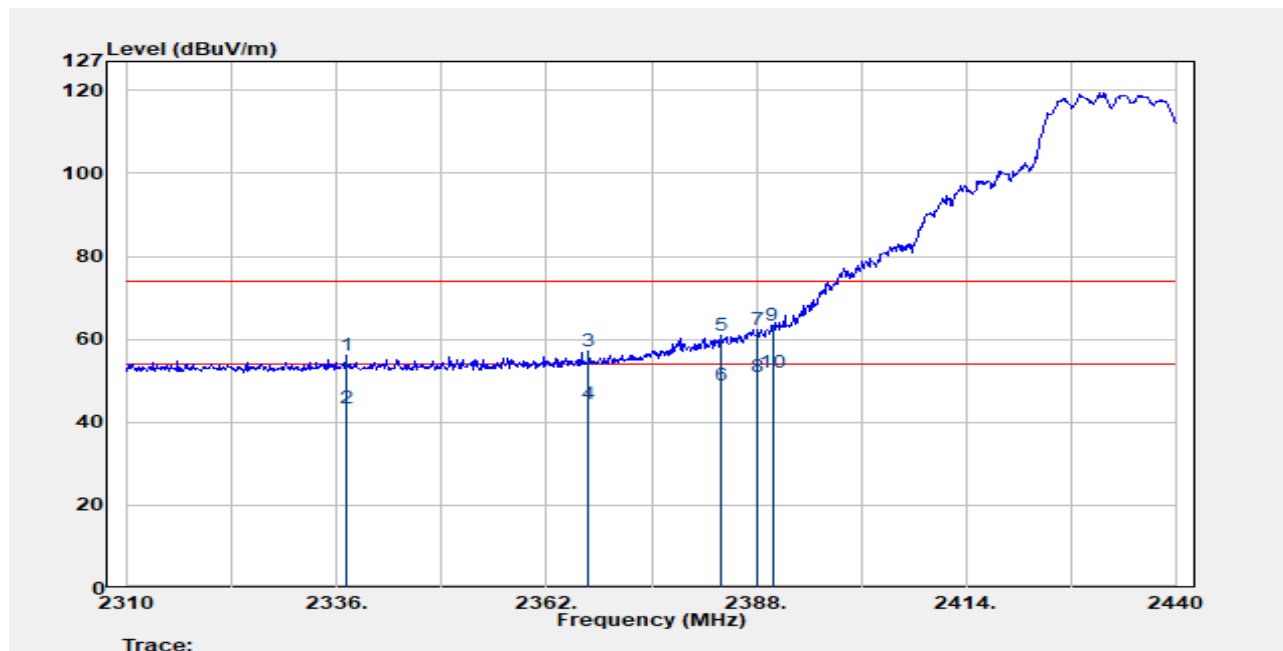
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2337.040	Peak	54.91	1.05	55.97	74.00	-18.03
2337.040	Average	42.26	1.05	43.31	54.00	-10.69
2367.200	Peak	56.14	0.96	57.11	74.00	-16.89
2367.200	Average	43.53	0.96	44.49	54.00	-9.51
2383.710	Peak	59.92	0.93	60.85	74.00	-13.15
2383.710	Average	48.09	0.93	49.02	54.00	-4.98
2388.130	Peak	61.47	0.92	62.39	74.00	-11.61
2388.130	Average	49.95	0.92	50.87	54.00	-3.13
2390.000	Peak	62.28	0.92	63.20	74.00	-10.80
2390.000	Average	51.21	0.92	52.13	54.00	-1.87

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Report Number :ER-2021-90005

Operation Mode :802.11g

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

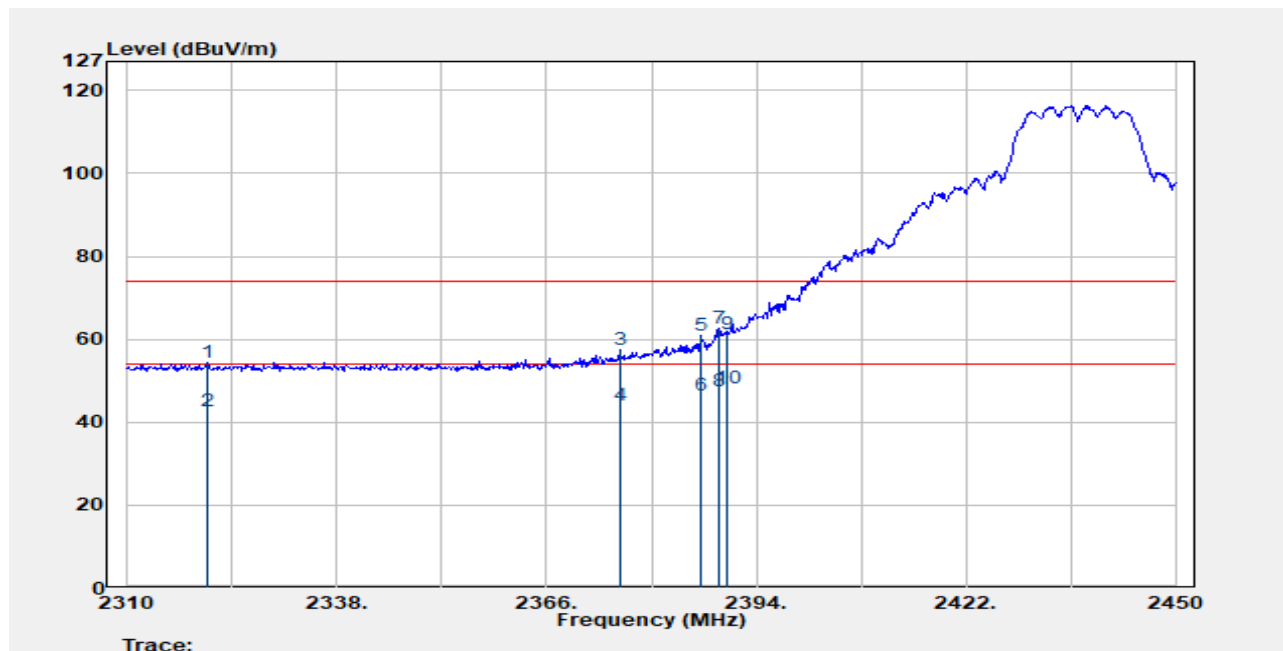
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Vertical

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2320.780	Peak	53.34	1.12	54.47	74.00	-19.53
2320.780	Average	41.65	1.12	42.77	54.00	-11.23
2375.800	Peak	56.48	0.95	57.42	74.00	-16.58
2375.800	Average	43.06	0.95	44.01	54.00	-9.99
2386.580	Peak	59.98	0.92	60.90	74.00	-13.10
2386.580	Average	45.56	0.92	46.48	54.00	-7.52
2389.100	Peak	61.60	0.92	62.52	74.00	-11.48
2389.100	Average	46.66	0.92	47.58	54.00	-6.42
2390.000	Peak	60.49	0.92	61.41	74.00	-12.59
2390.000	Average	47.28	0.92	48.20	54.00	-5.80

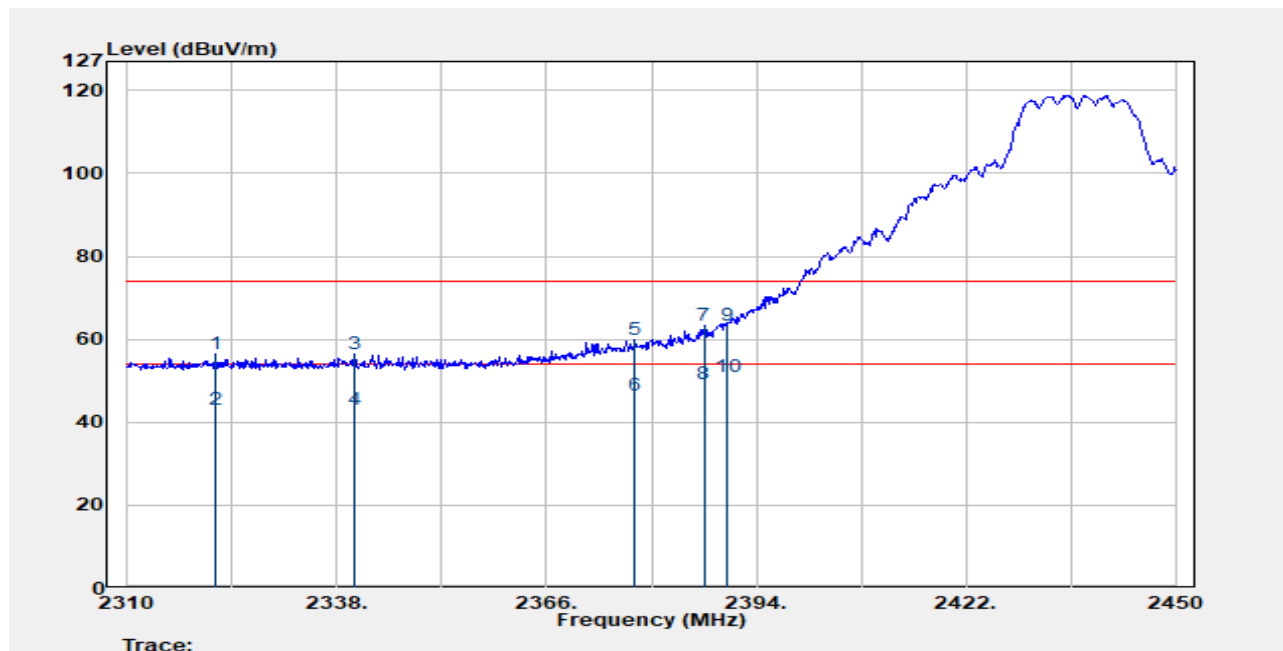
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2321.760	Peak	55.31	1.12	56.43	74.00	-17.57
2321.760	Average	41.88	1.12	43.00	54.00	-11.00
2340.240	Peak	55.56	1.04	56.61	74.00	-17.39
2340.240	Average	42.11	1.04	43.15	54.00	-10.85
2377.760	Peak	58.96	0.94	59.90	74.00	-14.10
2377.760	Average	45.53	0.94	46.47	54.00	-7.53
2387.000	Peak	62.53	0.92	63.45	74.00	-10.55
2387.000	Average	48.39	0.92	49.31	54.00	-4.69
2390.000	Peak	62.40	0.92	63.32	74.00	-10.68
2390.000	Average	50.17	0.92	51.09	54.00	-2.91

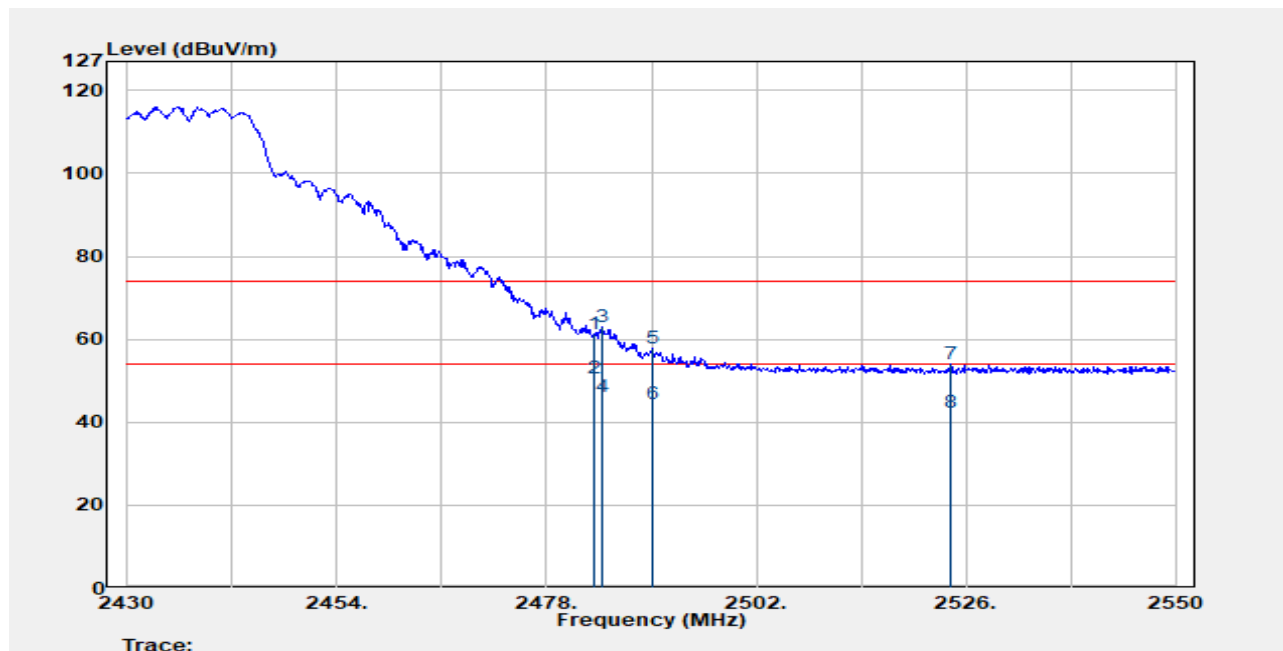
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	60.66	0.67	61.33	74.00	-12.67
2483.500	Average	49.96	0.67	50.63	54.00	-3.37
2484.360	Peak	62.21	0.67	62.88	74.00	-11.12
2484.360	Average	45.52	0.67	46.19	54.00	-7.81
2490.120	Peak	57.27	0.64	57.92	74.00	-16.08
2490.120	Average	43.92	0.64	44.56	54.00	-9.44
2524.200	Peak	53.41	0.70	54.12	74.00	-19.88
2524.200	Average	41.49	0.70	42.19	54.00	-11.81

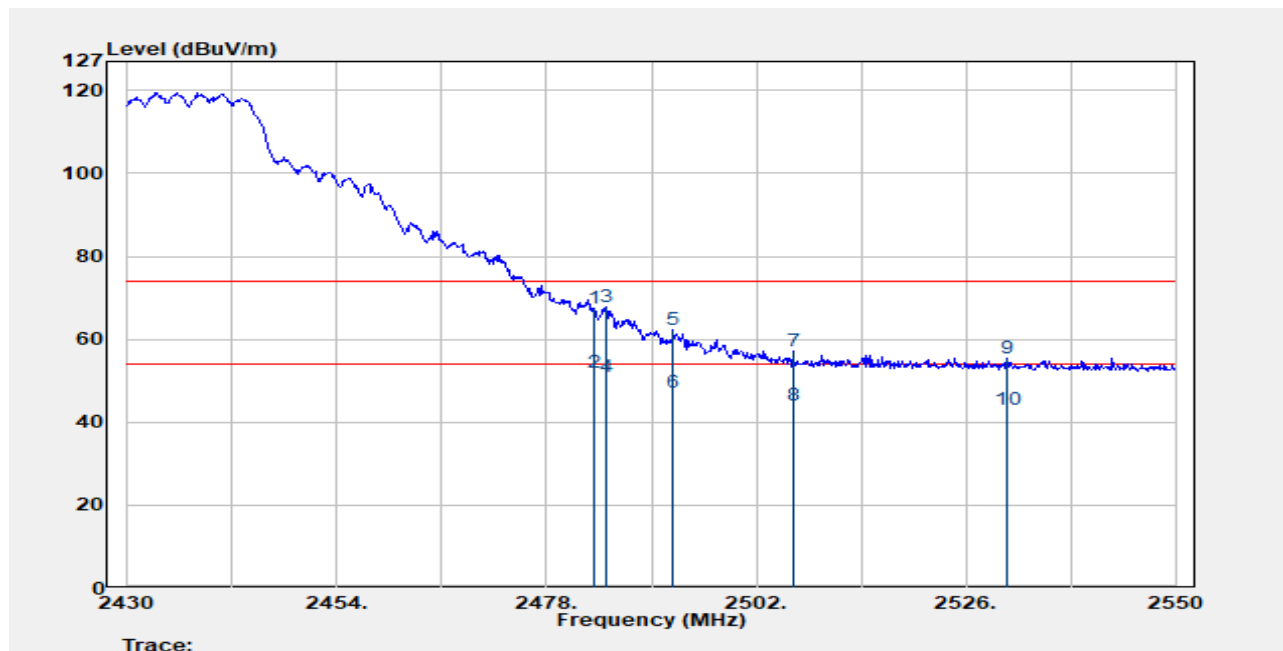
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	66.67	0.67	67.34	74.00	-6.66
2483.500	Average	51.46	0.67	52.13	54.00	-1.87
2484.720	Peak	66.99	0.66	67.65	74.00	-6.35
2484.720	Average	50.32	0.66	50.98	54.00	-3.02
2492.520	Peak	61.64	0.63	62.28	74.00	-11.72
2492.520	Average	46.59	0.63	47.22	54.00	-6.78
2506.200	Peak	56.41	0.63	57.04	74.00	-16.96
2506.200	Average	43.40	0.63	44.03	54.00	-9.97
2530.800	Peak	54.84	0.73	55.57	74.00	-18.43
2530.800	Average	42.43	0.73	43.16	54.00	-10.84

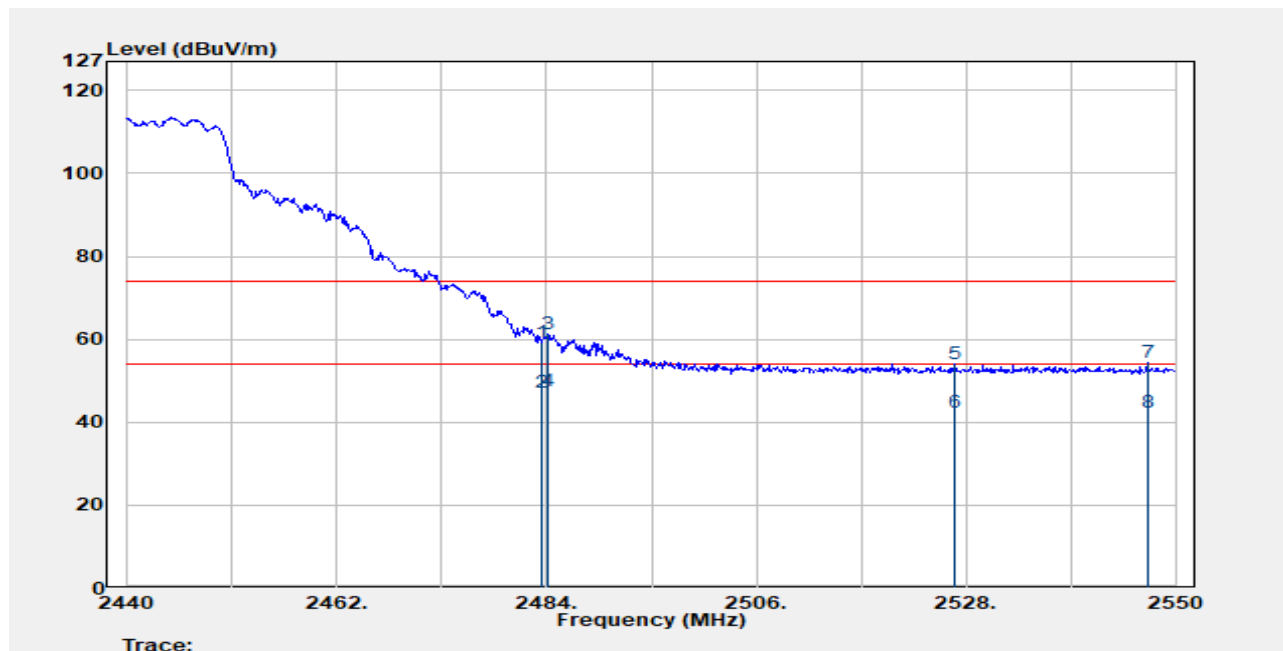
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	58.44	0.67	59.11	74.00	-14.89
2483.500	Average	46.36	0.67	47.03	54.00	-6.97
2484.110	Peak	60.60	0.67	61.27	74.00	-12.73
2484.110	Average	46.76	0.67	47.43	54.00	-6.57
2526.900	Peak	53.42	0.72	54.14	74.00	-19.86
2526.900	Average	41.50	0.72	42.22	54.00	-11.78
2547.030	Peak	53.45	0.80	54.25	74.00	-19.75
2547.030	Average	41.45	0.80	42.25	54.00	-11.75

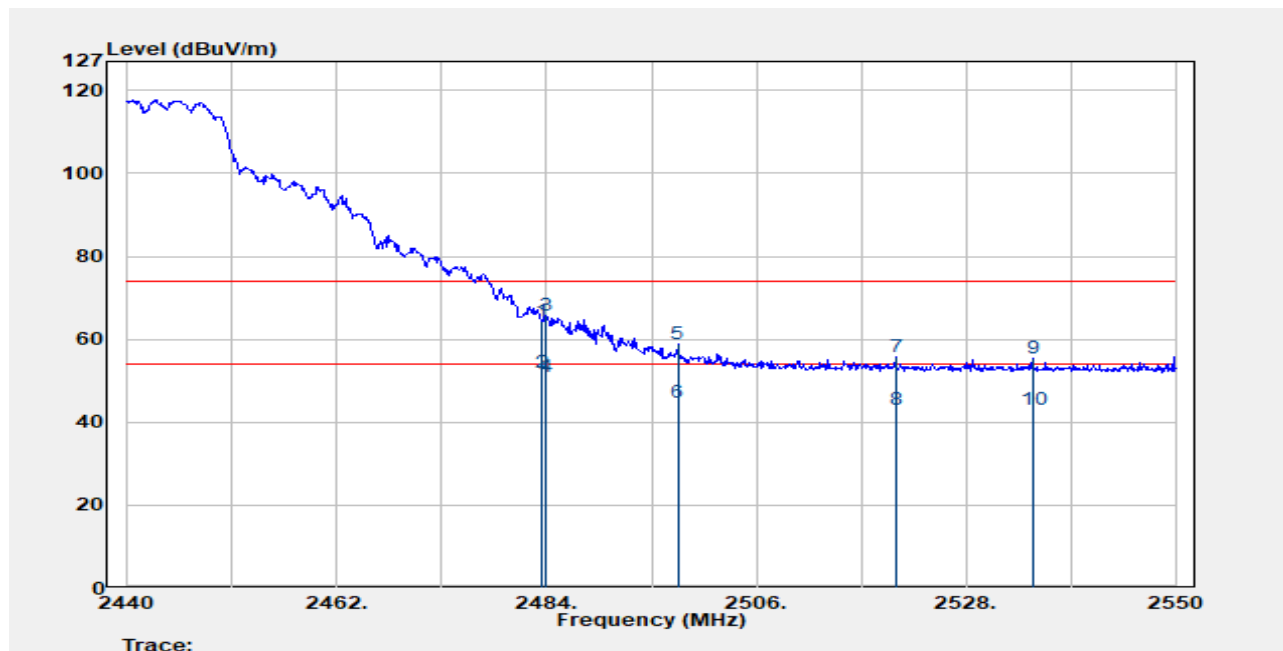
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	63.82	0.67	64.49	74.00	-9.51
2483.500	Average	51.23	0.67	51.90	54.00	-2.10
2483.890	Peak	65.05	0.67	65.72	74.00	-8.28
2483.890	Average	50.12	0.67	50.79	54.00	-3.21
2497.750	Peak	58.23	0.61	58.85	74.00	-15.15
2497.750	Average	44.06	0.61	44.67	54.00	-9.33
2520.630	Peak	54.98	0.69	55.68	74.00	-18.33
2520.630	Average	42.45	0.69	43.14	54.00	-10.86
2535.040	Peak	54.67	0.75	55.42	74.00	-18.58
2535.040	Average	42.11	0.75	42.86	54.00	-11.14

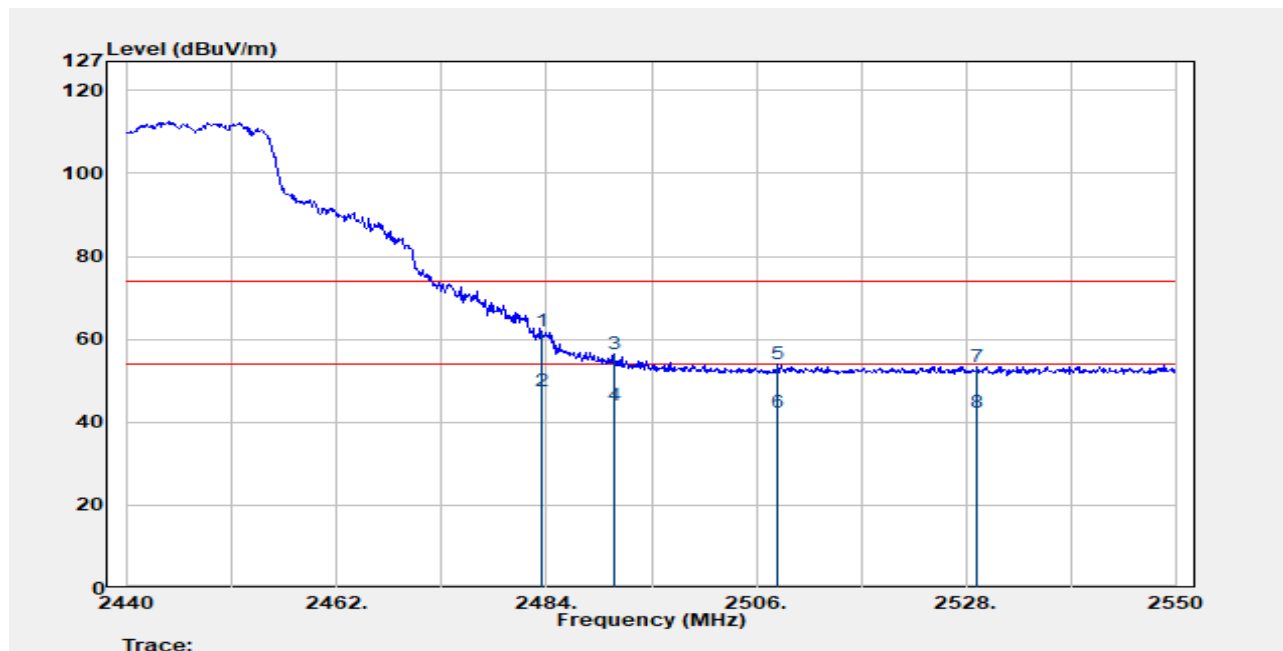
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	61.42	0.67	62.09	74.00	-11.91
2483.500	Average	46.70	0.67	47.37	54.00	-6.63
2491.040	Peak	55.82	0.64	56.46	74.00	-17.54
2491.040	Average	43.45	0.64	44.09	54.00	-9.91
2508.310	Peak	53.31	0.64	53.95	74.00	-20.05
2508.310	Average	41.81	0.64	42.45	54.00	-11.55
2529.210	Peak	52.74	0.73	53.47	74.00	-20.53
2529.210	Average	41.63	0.73	42.36	54.00	-11.64

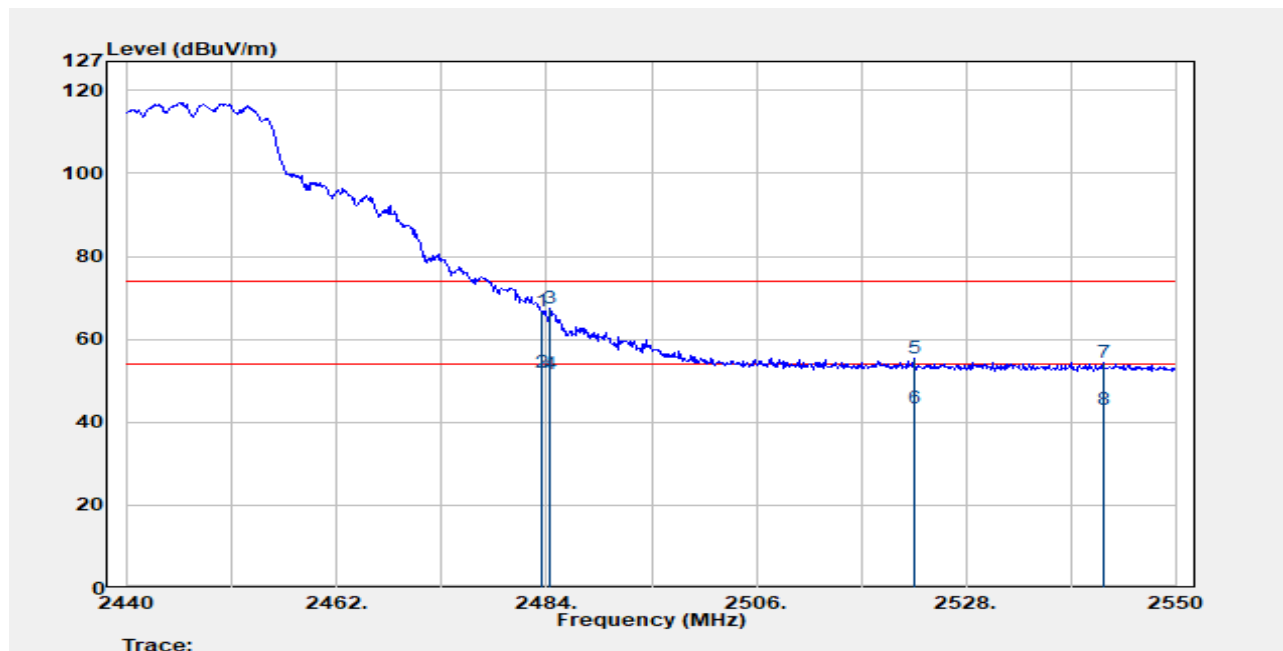
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBuV/m	dBuV/m	dB
2483.500	Peak	65.97	0.67	66.64	74.00	-7.36
2483.500	Average	51.37	0.67	52.04	54.00	-1.96
2484.330	Peak	66.66	0.67	67.32	74.00	-6.68
2484.330	Average	50.95	0.67	51.62	54.00	-2.38
2522.500	Peak	54.66	0.70	55.36	74.00	-18.64
2522.500	Average	42.50	0.70	43.20	54.00	-10.80
2542.410	Peak	53.71	0.78	54.49	74.00	-19.51
2542.410	Average	42.16	0.78	42.94	54.00	-11.06

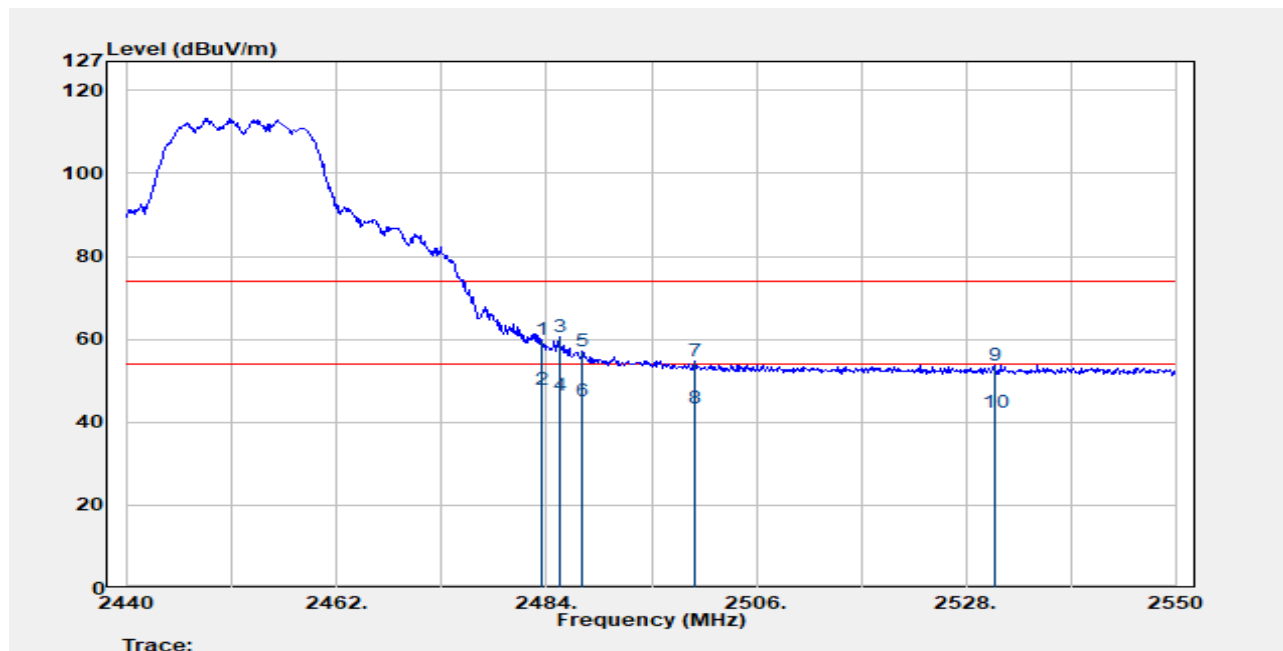
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	59.13	0.67	59.80	74.00	-14.20
2483.500	Average	47.16	0.67	47.83	54.00	-6.17
2485.320	Peak	59.78	0.66	60.44	74.00	-13.56
2485.320	Average	45.76	0.66	46.42	54.00	-7.58
2487.740	Peak	56.33	0.65	56.99	74.00	-17.01
2487.740	Average	44.46	0.65	45.11	54.00	-8.89
2499.620	Peak	54.15	0.61	54.75	74.00	-19.25
2499.620	Average	42.73	0.61	43.34	54.00	-10.66
2531.080	Peak	53.06	0.73	53.79	74.00	-20.21
2531.080	Average	41.49	0.73	42.22	54.00	-11.78

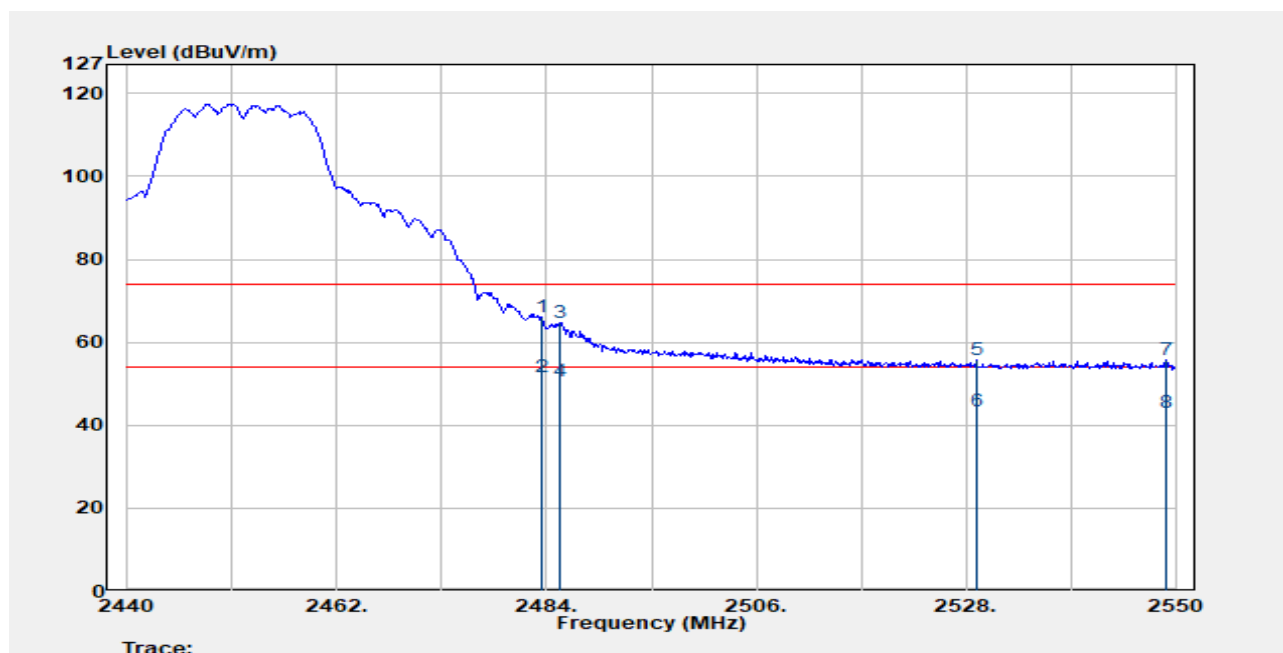
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	Peak	65.36	0.67	66.03	74.00	-7.97
2483.500	Average	51.02	0.67	51.69	54.00	-2.31
2485.320	Peak	64.00	0.66	64.66	74.00	-9.34
2485.320	Average	49.96	0.66	50.62	54.00	-3.38
2529.100	Peak	54.88	0.72	55.60	74.00	-18.40
2529.100	Average	42.77	0.72	43.49	54.00	-10.51
2549.010	Peak	54.91	0.81	55.72	74.00	-18.28
2549.010	Average	42.16	0.81	42.97	54.00	-11.03

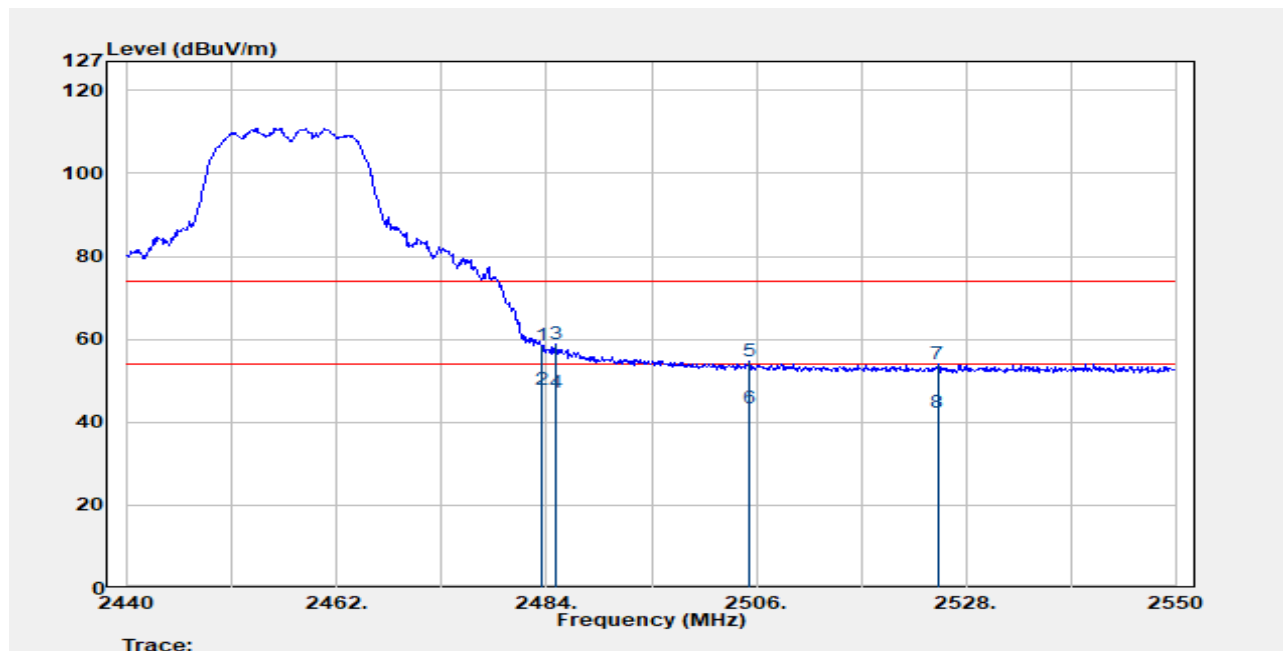
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	57.97	0.67	58.64	74.00	-15.36
2483.500	Average	47.22	0.67	47.89	54.00	-6.11
2484.990	Peak	58.03	0.66	58.69	74.00	-15.31
2484.990	Average	46.33	0.66	46.99	54.00	-7.01
2505.340	Peak	54.13	0.63	54.76	74.00	-19.24
2505.340	Average	42.73	0.63	43.36	54.00	-10.64
2525.030	Peak	53.47	0.71	54.18	74.00	-19.82
2525.030	Average	41.76	0.71	42.47	54.00	-11.53

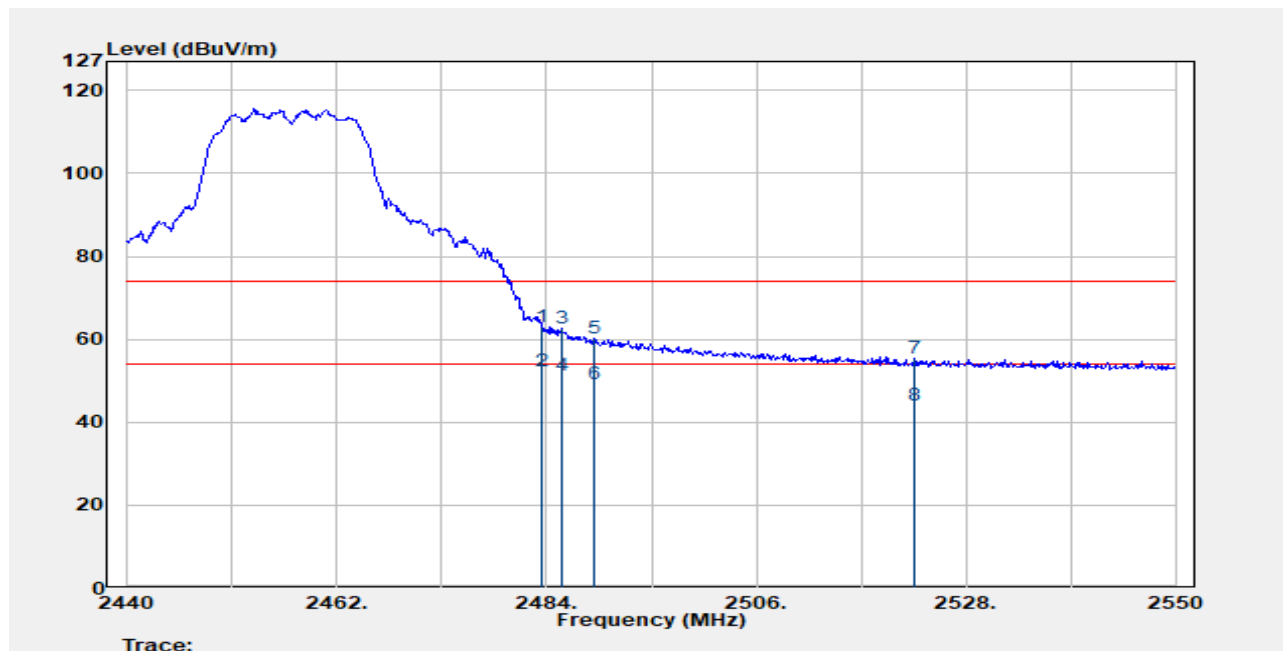
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	62.39	0.67	63.06	74.00	-10.94
2483.500	Average	51.78	0.67	52.45	54.00	-1.55
2485.540	Peak	61.84	0.66	62.51	74.00	-11.49
2485.540	Average	50.46	0.66	51.12	54.00	-2.88
2489.060	Peak	59.72	0.65	60.37	74.00	-13.63
2489.060	Average	48.72	0.65	49.37	54.00	-4.63
2522.610	Peak	54.54	0.70	55.24	74.00	-18.76
2522.610	Average	43.46	0.70	44.16	54.00	-9.84

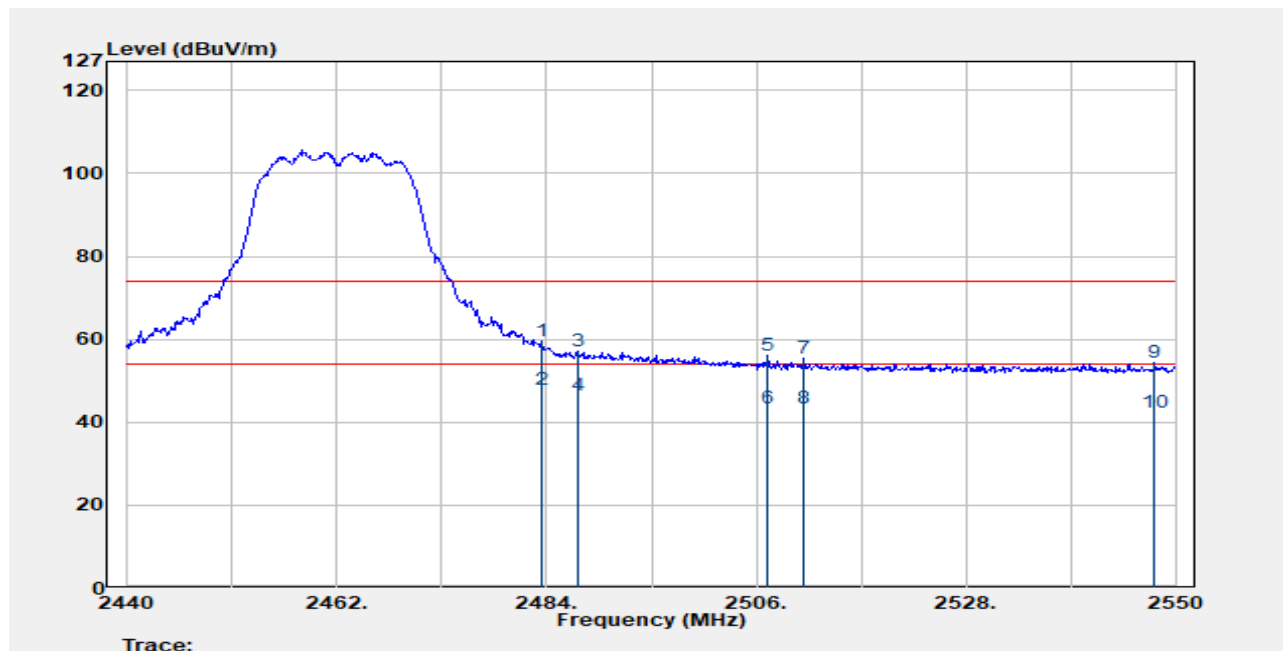
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	Peak	58.75	0.67	59.42	74.00	-14.58
2483.500	Average	47.06	0.67	47.73	54.00	-6.27
2487.190	Peak	56.36	0.66	57.01	74.00	-16.99
2487.190	Average	45.66	0.66	46.32	54.00	-7.68
2507.210	Peak	55.45	0.64	56.08	74.00	-17.92
2507.210	Average	42.79	0.64	43.43	54.00	-10.57
2511.060	Peak	54.64	0.65	55.29	74.00	-18.71
2511.060	Average	42.59	0.65	43.24	54.00	-10.76
2547.800	Peak	53.53	0.80	54.33	74.00	-19.67
2547.800	Average	41.46	0.80	42.26	54.00	-11.74

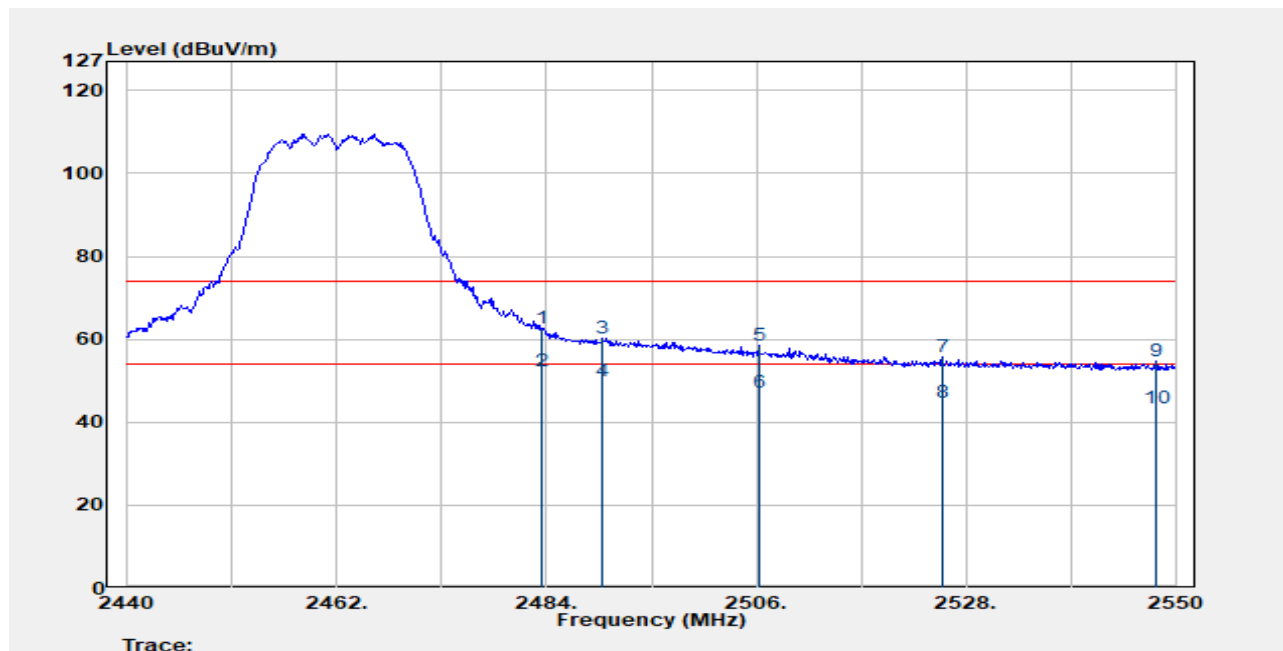
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	61.94	0.67	62.61	74.00	-11.39
2483.500	Average	51.66	0.67	52.33	54.00	-1.67
2489.830	Peak	59.71	0.64	60.36	74.00	-13.64
2489.830	Average	49.39	0.64	50.03	54.00	-3.97
2506.220	Peak	57.88	0.63	58.51	74.00	-15.49
2506.220	Average	46.46	0.63	47.09	54.00	-6.91
2525.470	Peak	55.15	0.71	55.86	74.00	-18.14
2525.470	Average	44.06	0.71	44.77	54.00	-9.23
2548.020	Peak	53.91	0.80	54.71	74.00	-19.29
2548.020	Average	42.51	0.80	43.31	54.00	-10.69

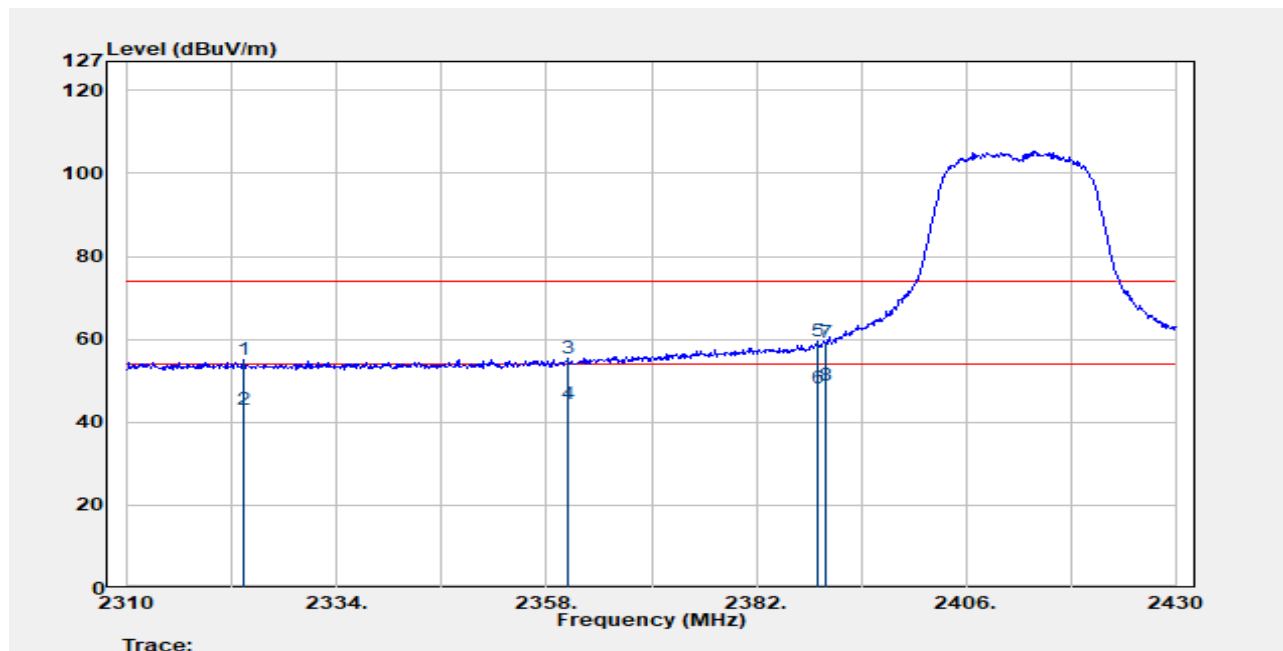
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBUV/m	dBUV/m	dB
2323.200	Peak	53.97	1.11	55.09	74.00	-18.91
2323.200	Average	41.89	1.11	43.00	54.00	-11.00
2360.520	Peak	54.59	0.98	55.57	74.00	-18.43
2360.520	Average	43.33	0.98	44.31	54.00	-9.69
2388.960	Peak	58.58	0.92	59.50	74.00	-14.50
2388.960	Average	47.42	0.92	48.34	54.00	-5.66
2390.000	Peak	58.40	0.92	59.32	74.00	-14.68
2390.000	Average	47.93	0.92	48.85	54.00	-5.15

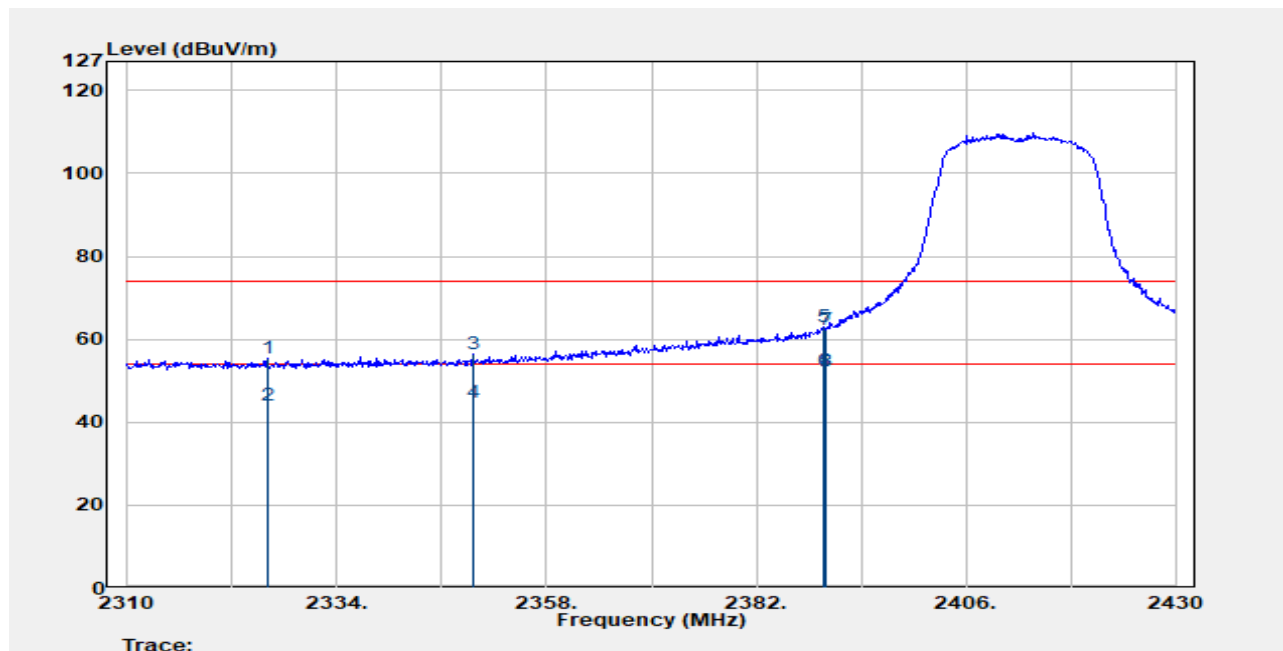
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2325.960	Peak	54.24	1.10	55.34	74.00	-18.66
2325.960	Average	42.90	1.10	44.00	54.00	-10.00
2349.480	Peak	55.42	1.00	56.42	74.00	-17.58
2349.480	Average	43.91	1.00	44.91	54.00	-9.09
2389.680	Peak	62.09	0.92	63.01	74.00	-10.99
2389.680	Average	51.39	0.92	52.31	54.00	-1.69
2390.000	Peak	61.38	0.92	62.30	74.00	-11.70
2390.000	Average	51.55	0.92	52.47	54.00	-1.53

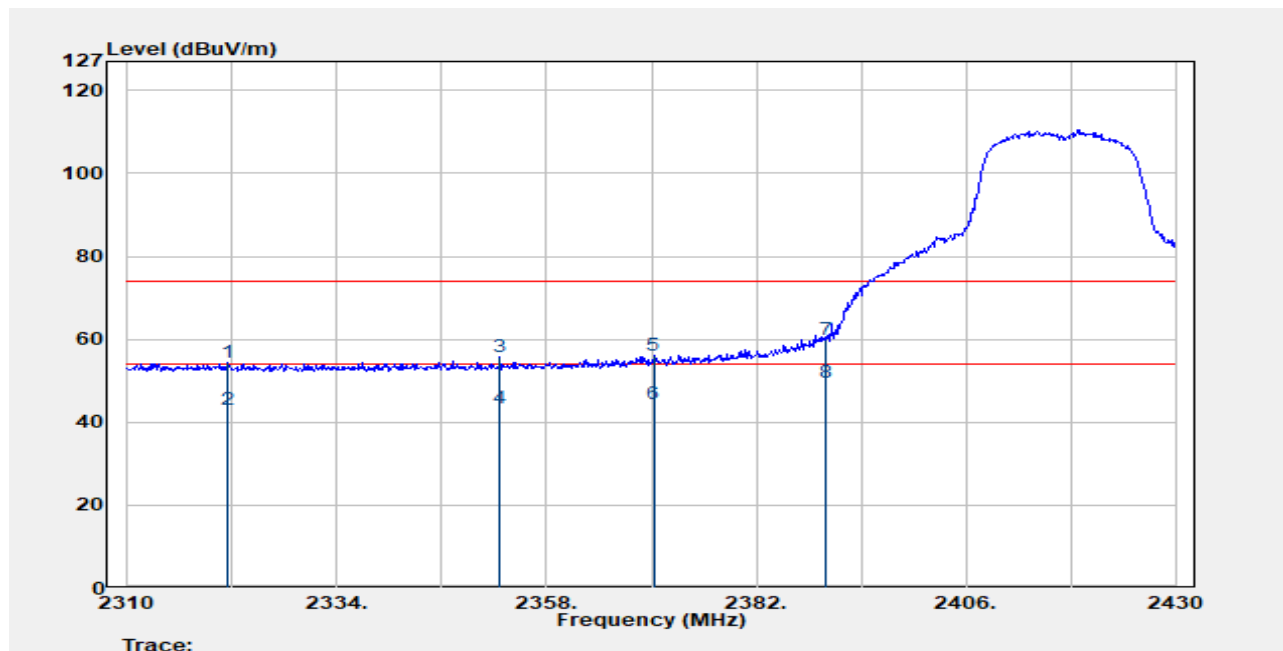
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2321.400	Peak	53.15	1.12	54.27	74.00	-19.73
2321.400	Average	41.98	1.12	43.10	54.00	-10.90
2352.600	Peak	54.80	1.00	55.79	74.00	-18.21
2352.600	Average	42.45	1.00	43.45	54.00	-10.55
2370.240	Peak	55.03	0.96	55.99	74.00	-18.01
2370.240	Average	43.58	0.96	44.54	54.00	-9.46
2390.000	Peak	59.12	0.92	60.04	74.00	-13.96
2390.000	Average	48.49	0.92	49.41	54.00	-4.59

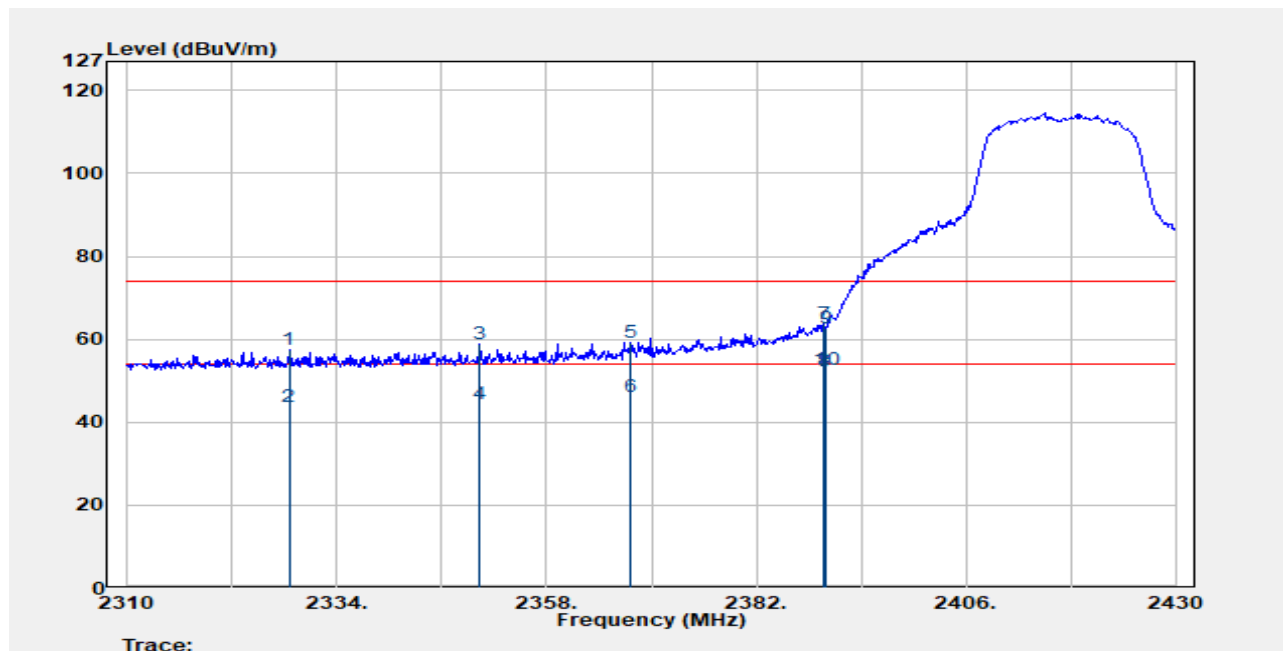
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2328.480	Peak	56.32	1.09	57.41	74.00	-16.59
2328.480	Average	42.77	1.09	43.86	54.00	-10.14
2350.320	Peak	57.84	1.00	58.84	74.00	-15.16
2350.320	Average	43.38	1.00	44.38	54.00	-9.62
2367.480	Peak	58.39	0.96	59.35	74.00	-14.65
2367.480	Average	45.08	0.96	46.04	54.00	-7.96
2389.680	Peak	62.67	0.92	63.58	74.00	-10.42
2389.680	Average	51.41	0.92	52.33	54.00	-1.67
2390.000	Peak	61.85	0.92	62.76	74.00	-11.24
2390.000	Average	51.74	0.92	52.66	54.00	-1.34

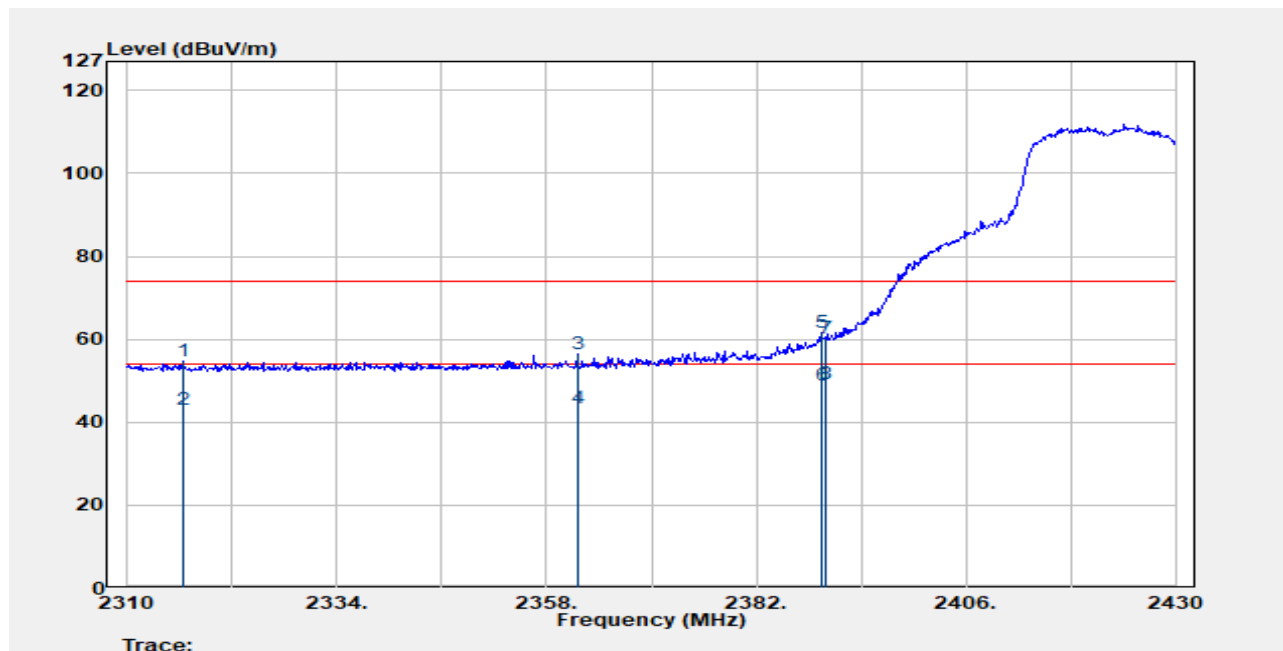
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBuV/m	dBuV/m	dB
2316.360	Peak	53.55	1.14	54.69	74.00	-19.31
2316.360	Average	41.90	1.14	43.04	54.00	-10.96
2361.480	Peak	55.64	0.98	56.61	74.00	-17.39
2361.480	Average	42.51	0.98	43.49	54.00	-10.51
2389.440	Peak	60.54	0.92	61.46	74.00	-12.54
2389.440	Average	48.08	0.92	49.00	54.00	-5.00
2390.000	Peak	59.18	0.92	60.10	74.00	-13.90
2390.000	Average	48.30	0.92	49.22	54.00	-4.78

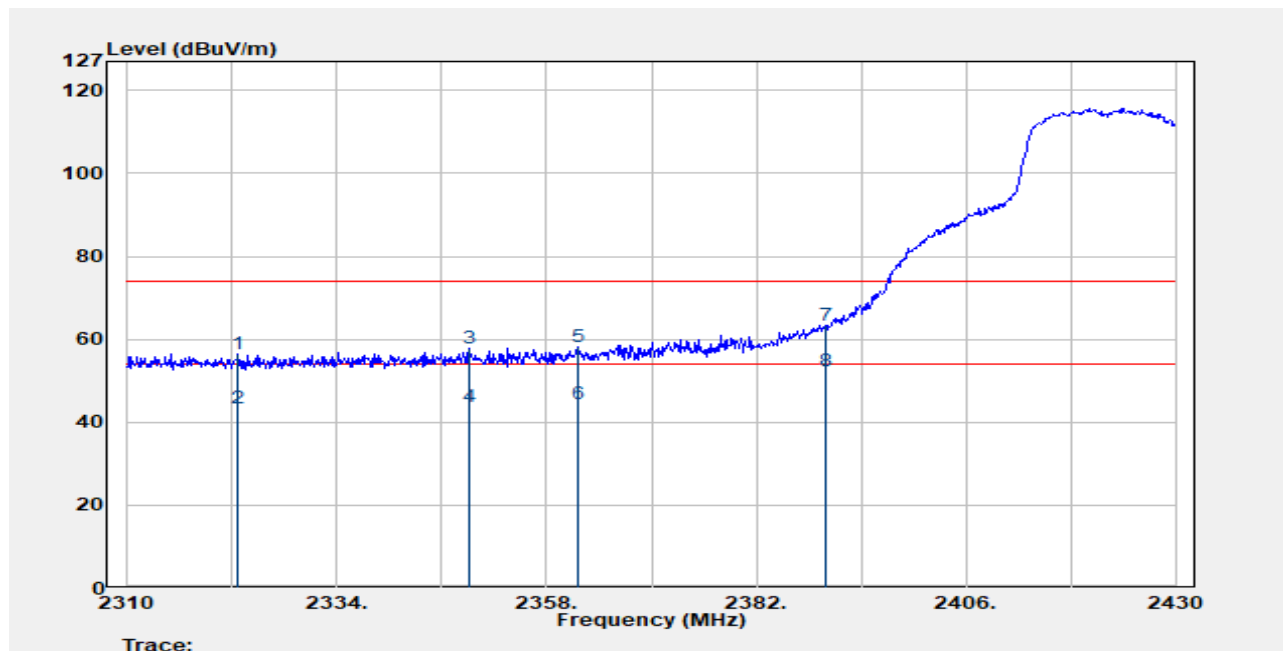
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2322.600	Peak	55.25	1.11	56.37	74.00	-17.63
2322.600	Average	42.41	1.11	43.52	54.00	-10.48
2349.120	Peak	56.93	1.01	57.94	74.00	-16.06
2349.120	Average	42.82	1.01	43.83	54.00	-10.17
2361.480	Peak	57.35	0.98	58.33	74.00	-15.67
2361.480	Average	43.48	0.98	44.46	54.00	-9.54
2390.000	Peak	62.55	0.92	63.46	74.00	-10.54
2390.000	Average	51.39	0.92	52.31	54.00	-1.69

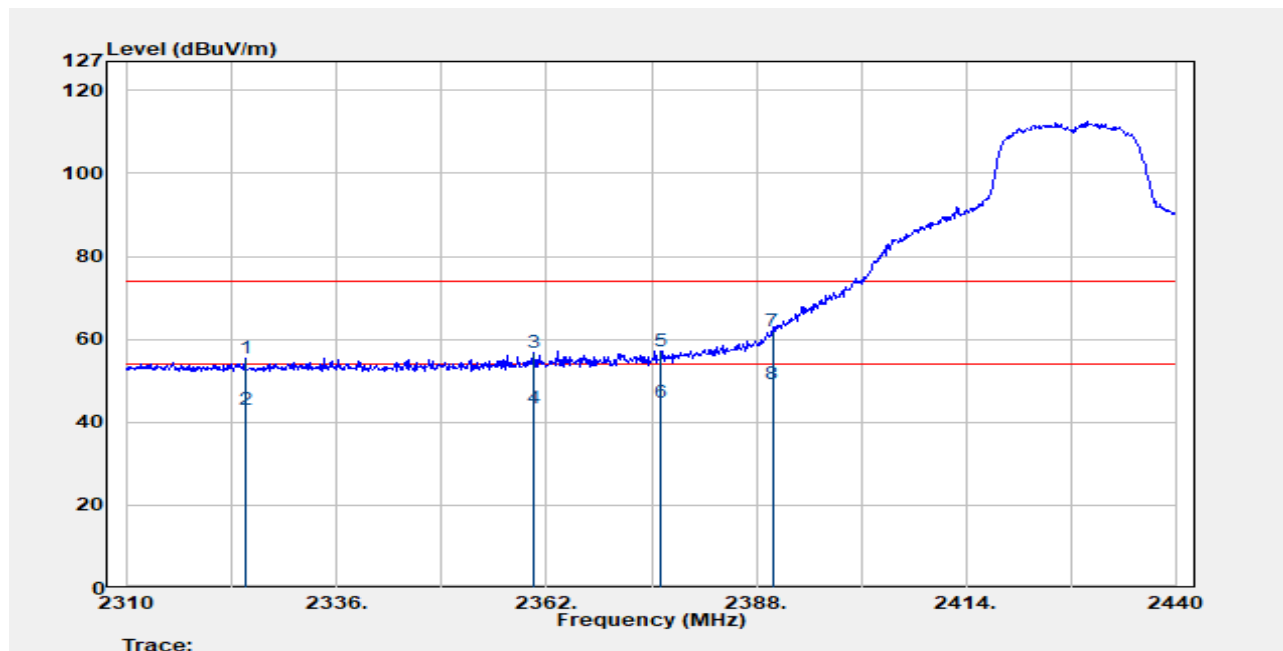
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2324.560	Peak	54.36	1.11	55.47	74.00	-18.53
2324.560	Average	41.85	1.11	42.96	54.00	-11.04
2360.310	Peak	55.67	0.98	56.65	74.00	-17.35
2360.310	Average	42.30	0.98	43.28	54.00	-10.72
2376.170	Peak	56.31	0.95	57.26	74.00	-16.74
2376.170	Average	43.88	0.95	44.83	54.00	-9.17
2390.000	Peak	60.93	0.92	61.85	74.00	-12.15
2390.000	Average	48.46	0.92	49.38	54.00	-4.62

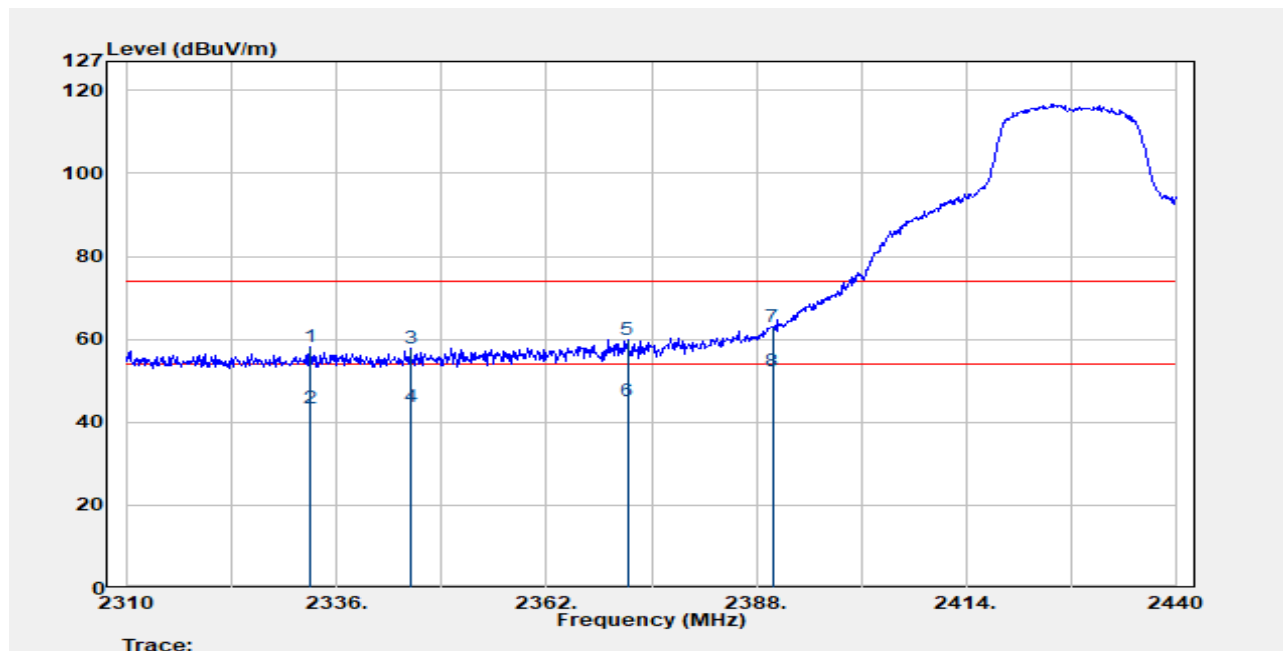
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2332.620	Peak	56.96	1.07	58.03	74.00	-15.97
2332.620	Average	42.42	1.07	43.49	54.00	-10.51
2345.100	Peak	56.90	1.02	57.93	74.00	-16.07
2345.100	Average	42.58	1.02	43.60	54.00	-10.40
2372.010	Peak	59.01	0.95	59.96	74.00	-14.04
2372.010	Average	44.25	0.95	45.20	54.00	-8.80
2390.000	Peak	62.16	0.92	63.08	74.00	-10.92
2390.000	Average	51.34	0.92	52.26	54.00	-1.74

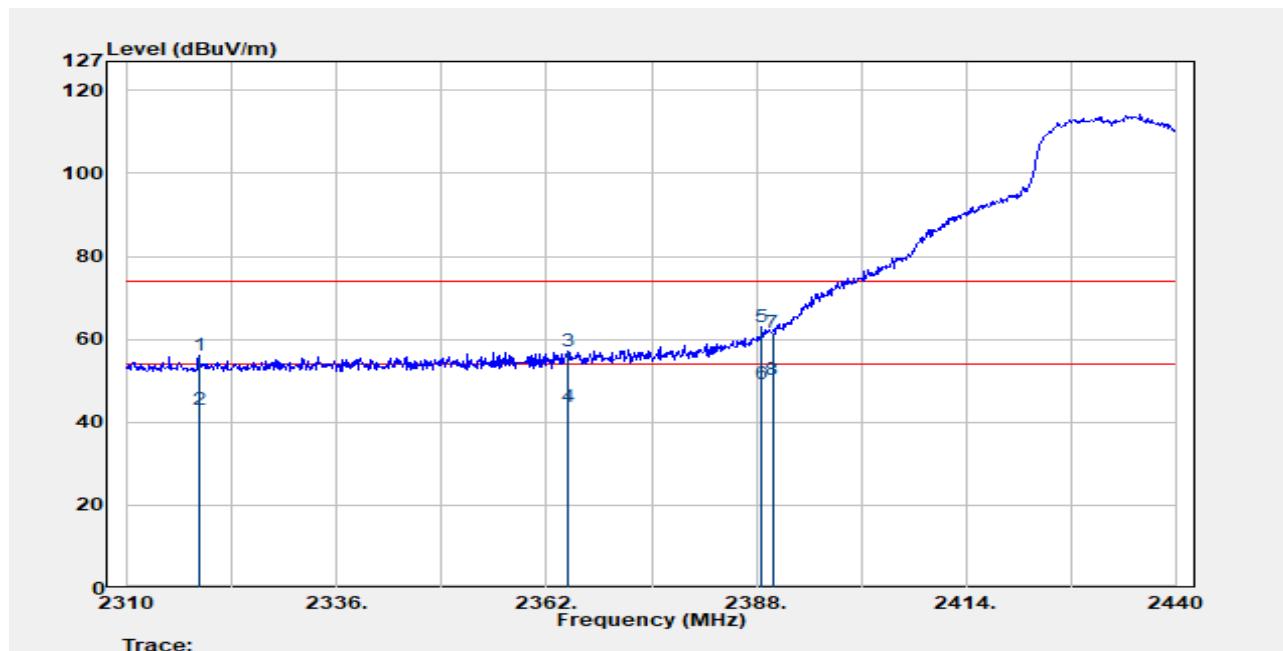
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2318.840	Peak	54.91	1.13	56.04	74.00	-17.96
2318.840	Average	41.83	1.13	42.96	54.00	-11.04
2364.730	Peak	56.32	0.97	57.29	74.00	-16.71
2364.730	Average	42.65	0.97	43.62	54.00	-10.38
2388.650	Peak	62.06	0.92	62.98	74.00	-11.02
2388.650	Average	48.29	0.92	49.21	54.00	-4.79
2390.000	Peak	60.61	0.92	61.52	74.00	-12.48
2390.000	Average	49.23	0.92	50.15	54.00	-3.85

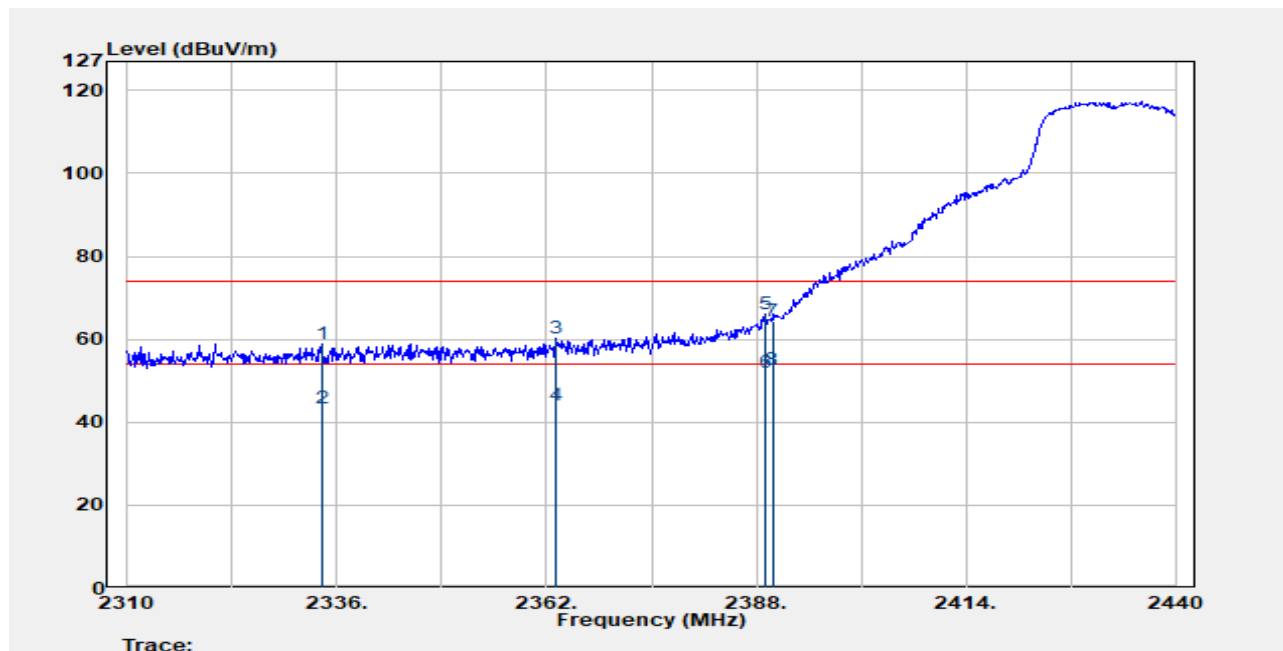
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2334.050	Peak	57.68	1.07	58.75	74.00	-15.25
2334.050	Average	42.22	1.07	43.29	54.00	-10.71
2363.040	Peak	59.10	0.97	60.08	74.00	-13.92
2363.040	Average	43.24	0.97	44.21	54.00	-9.79
2389.170	Peak	65.06	0.92	65.98	74.00	-8.02
2389.170	Average	51.12	0.92	52.04	54.00	-1.96
2390.000	Peak	63.61	0.92	64.52	74.00	-9.48
2390.000	Average	51.66	0.92	52.58	54.00	-1.42

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Report Number :ER-2021-90005

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

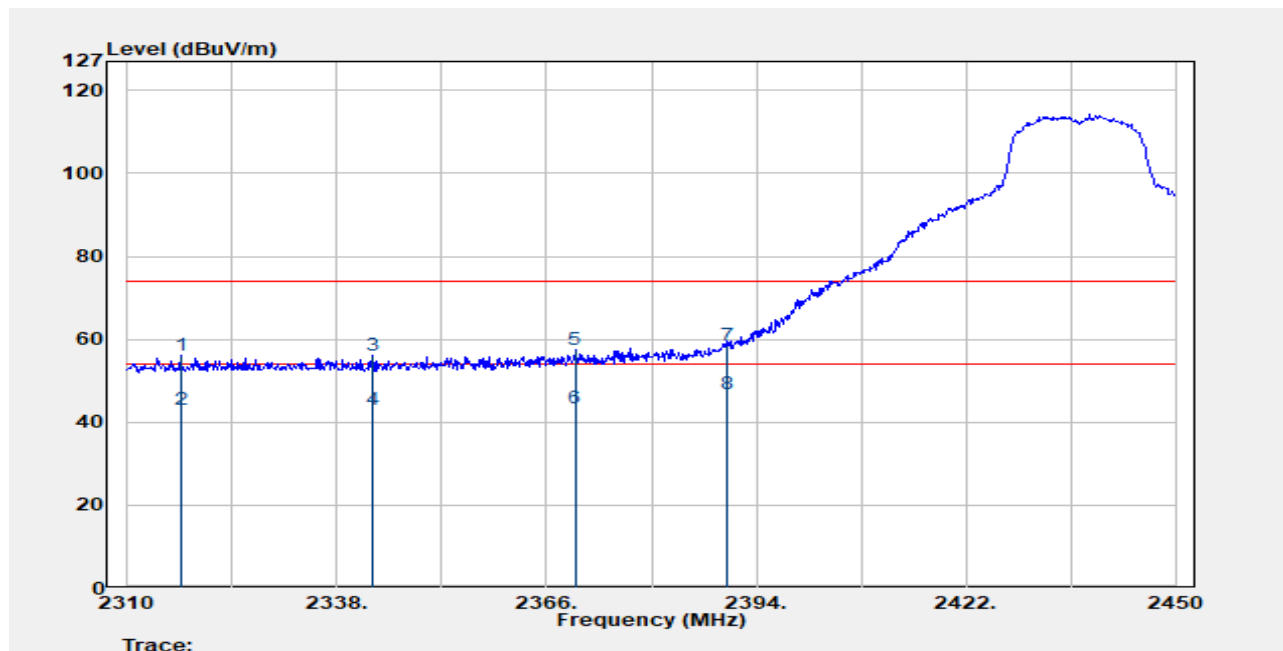
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Vertical

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2317.140	Peak	55.01	1.14	56.15	74.00	-17.85
2317.140	Average	41.75	1.14	42.89	54.00	-11.11
2342.620	Peak	55.17	1.03	56.20	74.00	-17.80
2342.620	Average	41.84	1.03	42.87	54.00	-11.13
2369.780	Peak	56.39	0.96	57.35	74.00	-16.65
2369.780	Average	42.32	0.96	43.28	54.00	-10.72
2390.000	Peak	57.45	0.92	58.37	74.00	-15.63
2390.000	Average	45.89	0.92	46.81	54.00	-7.19

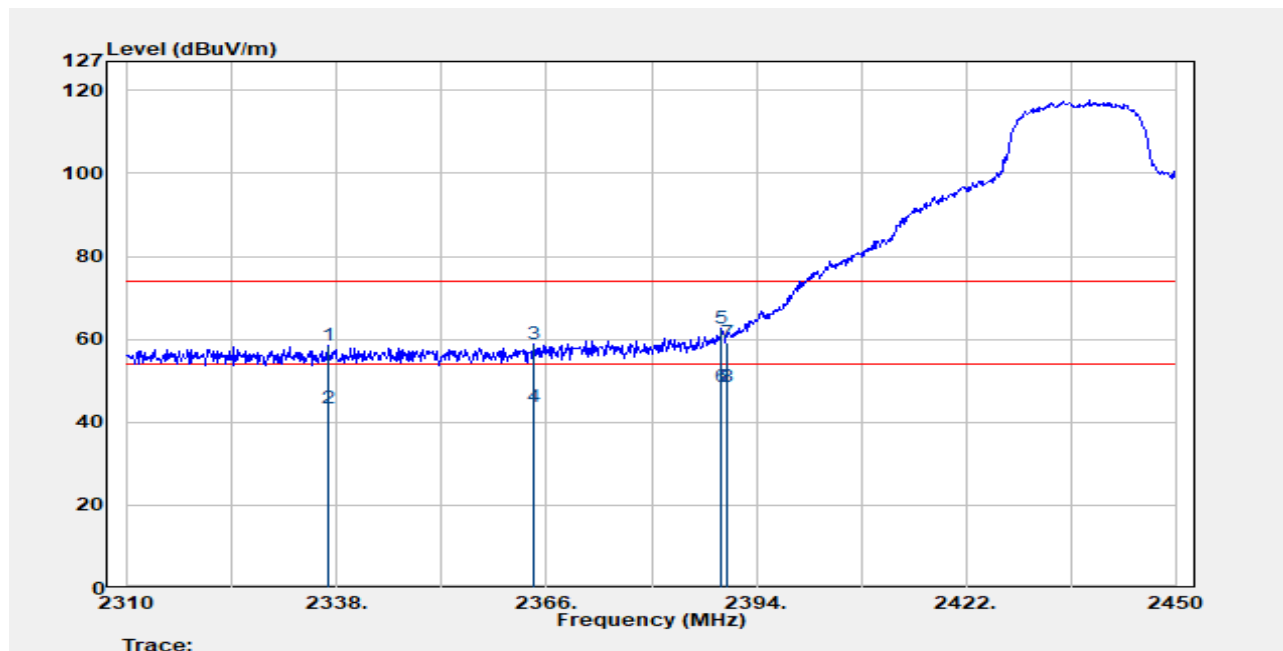
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2336.740	Peak	57.50	1.06	58.55	74.00	-15.45
2336.740	Average	42.17	1.06	43.23	54.00	-10.77
2364.320	Peak	57.87	0.97	58.84	74.00	-15.16
2364.320	Average	42.64	0.97	43.61	54.00	-10.39
2389.380	Peak	61.83	0.92	62.75	74.00	-11.25
2389.380	Average	47.55	0.92	48.47	54.00	-5.53
2390.000	Peak	58.39	0.92	59.31	74.00	-14.69
2390.000	Average	47.65	0.92	48.57	54.00	-5.43

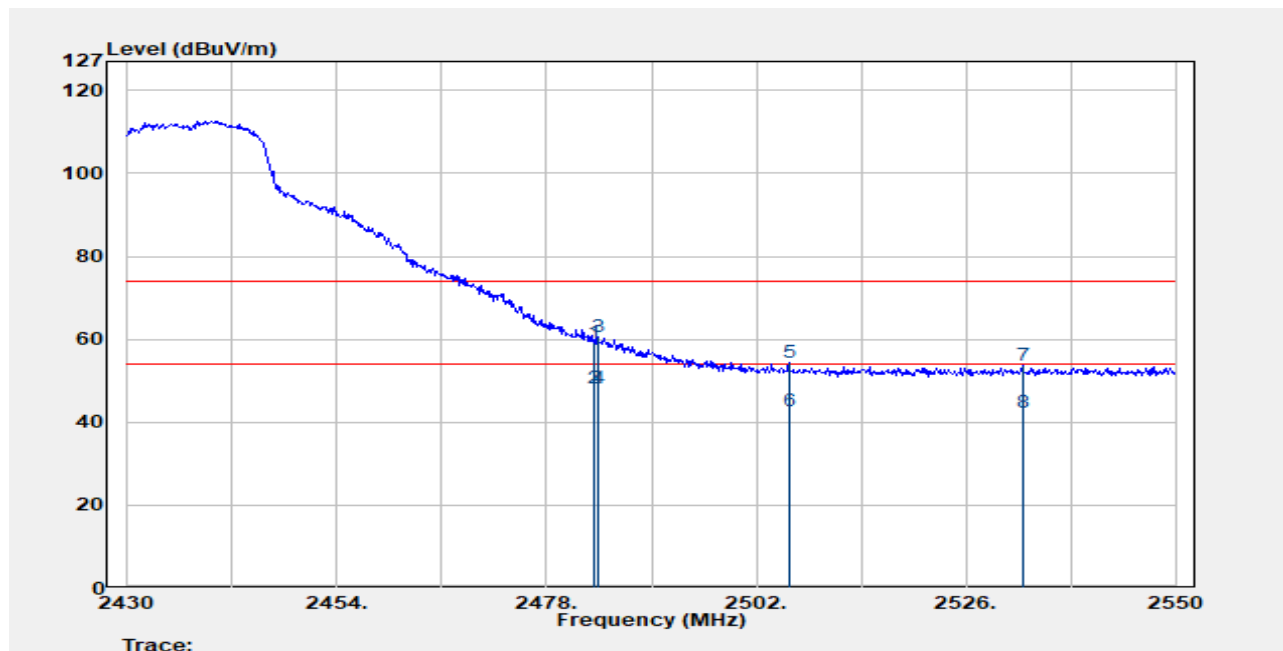
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	58.48	0.67	59.14	74.00	-14.86
2483.500	Average	47.35	0.67	48.02	54.00	-5.98
2483.880	Peak	60.03	0.67	60.70	74.00	-13.30
2483.880	Average	47.68	0.67	48.35	54.00	-5.65
2505.720	Peak	53.68	0.63	54.31	74.00	-19.69
2505.720	Average	42.03	0.63	42.66	54.00	-11.34
2532.480	Peak	52.88	0.74	53.61	74.00	-20.39
2532.480	Average	41.71	0.74	42.45	54.00	-11.55

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Report Number :ER-2021-90005

Operation Mode :802.11n20

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

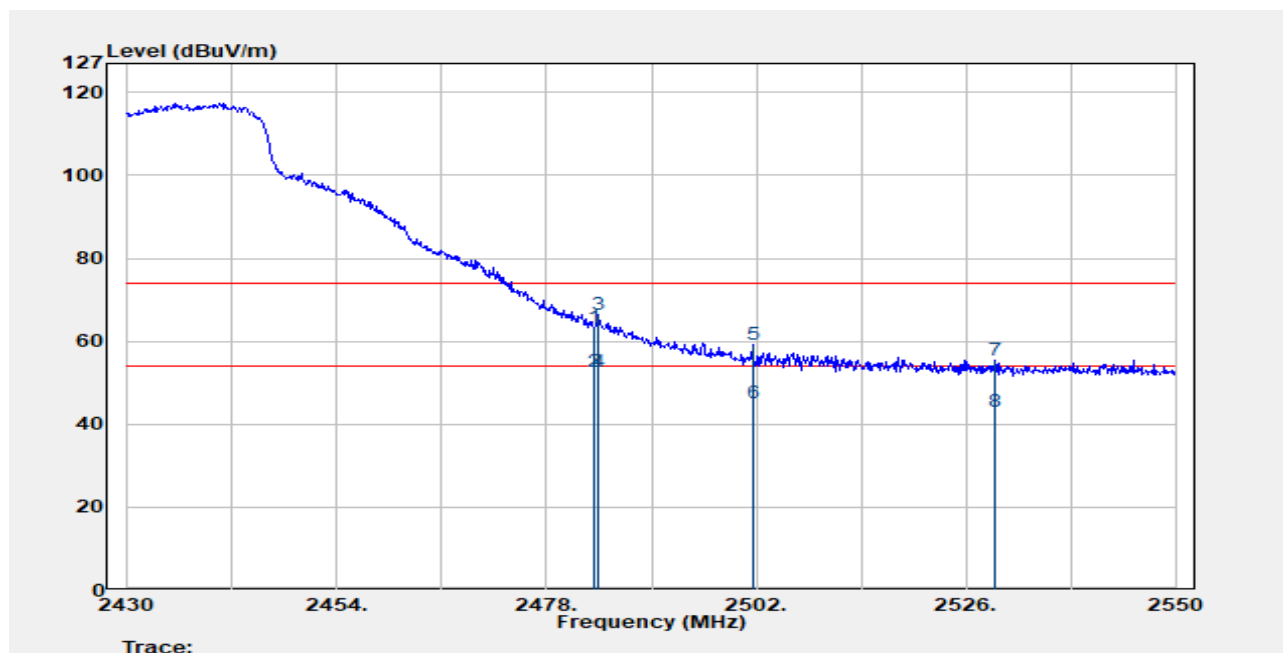
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Horizontal

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	62.68	0.67	63.35	74.00	-10.65
2483.500	Average	52.11	0.67	52.78	54.00	-1.22
2484.000	Peak	65.86	0.67	66.53	74.00	-7.47
2484.000	Average	51.97	0.67	52.64	54.00	-1.36
2501.640	Peak	58.50	0.61	59.12	74.00	-14.88
2501.640	Average	44.35	0.61	44.96	54.00	-9.04
2529.240	Peak	54.73	0.73	55.46	74.00	-18.54
2529.240	Average	42.25	0.73	42.98	54.00	-11.02

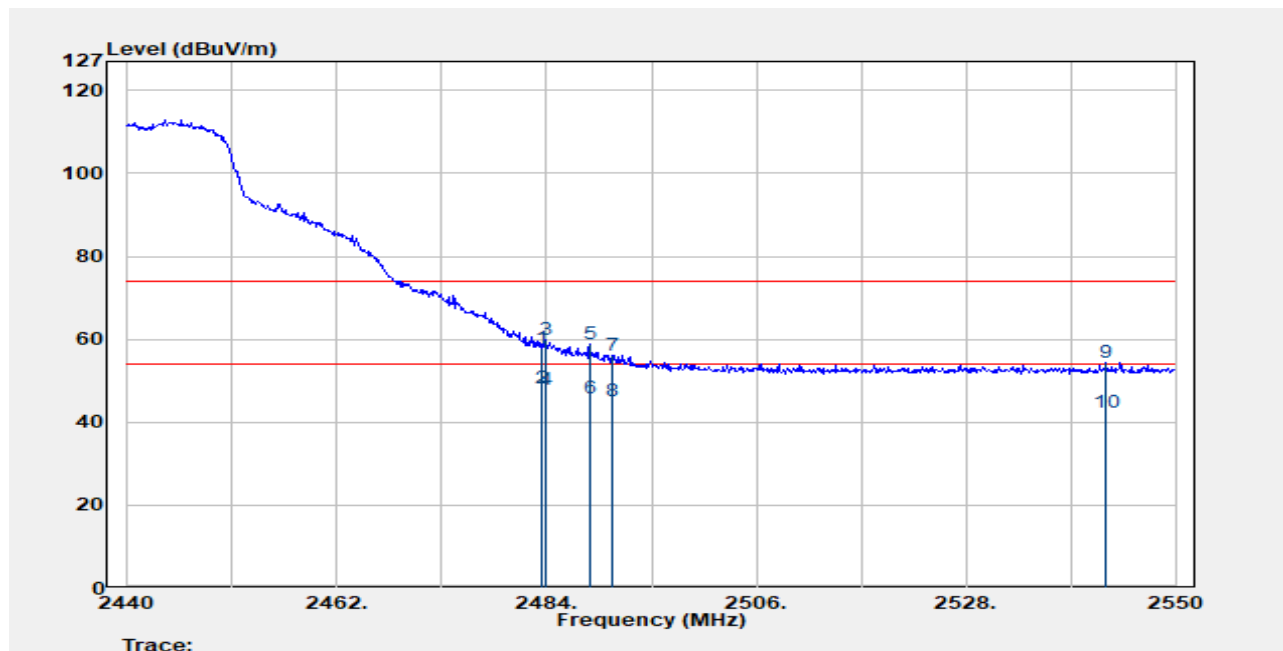
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	57.24	0.67	57.91	74.00	-16.09
2483.500	Average	47.43	0.67	48.10	54.00	-5.90
2483.890	Peak	59.22	0.67	59.88	74.00	-14.12
2483.890	Average	47.32	0.67	47.99	54.00	-6.01
2488.510	Peak	58.09	0.65	58.74	74.00	-15.26
2488.510	Average	45.02	0.65	45.67	54.00	-8.33
2490.930	Peak	55.47	0.64	56.11	74.00	-17.89
2490.930	Average	44.36	0.64	45.00	54.00	-9.00
2542.740	Peak	53.68	0.78	54.46	74.00	-19.54
2542.740	Average	41.72	0.78	42.50	54.00	-11.50

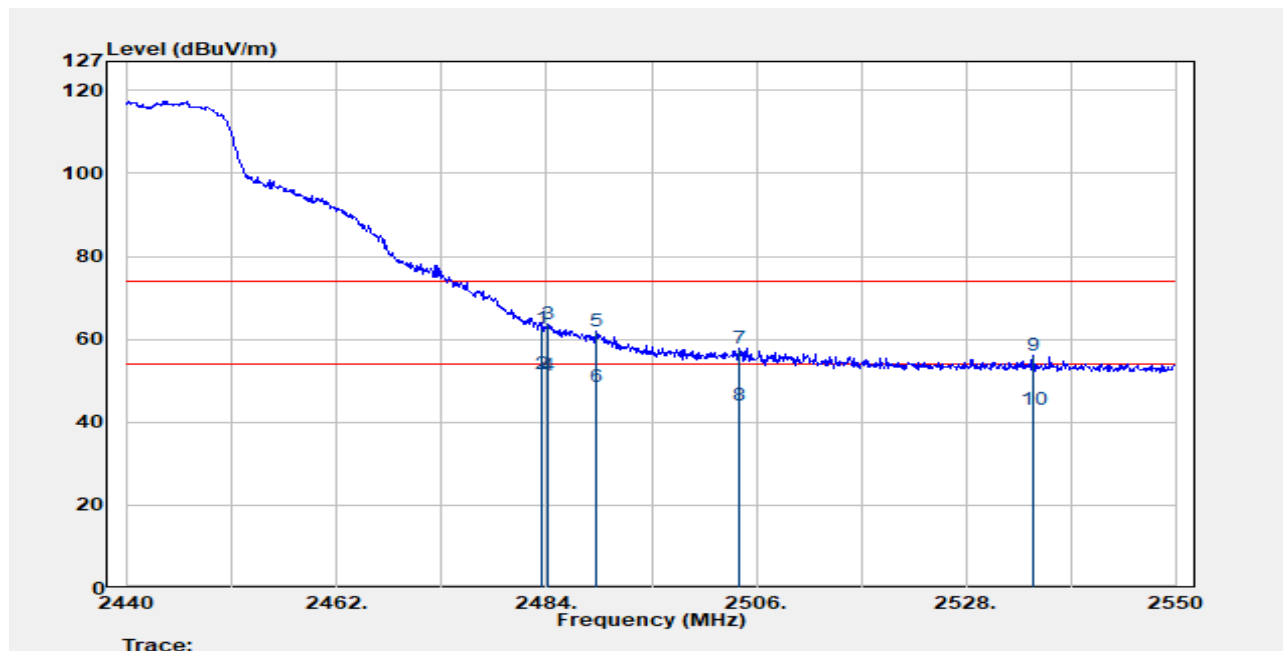
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	62.12	0.67	62.79	74.00	-11.21
2483.500	Average	51.02	0.67	51.69	54.00	-2.31
2484.110	Peak	62.96	0.67	63.62	74.00	-10.38
2484.110	Average	50.58	0.67	51.25	54.00	-2.75
2489.280	Peak	61.39	0.65	62.04	74.00	-11.96
2489.280	Average	47.72	0.65	48.37	54.00	-5.63
2504.240	Peak	57.24	0.62	57.87	74.00	-16.13
2504.240	Average	43.46	0.62	44.08	54.00	-9.92
2535.040	Peak	55.38	0.75	56.13	74.00	-17.87
2535.040	Average	42.29	0.75	43.04	54.00	-10.96

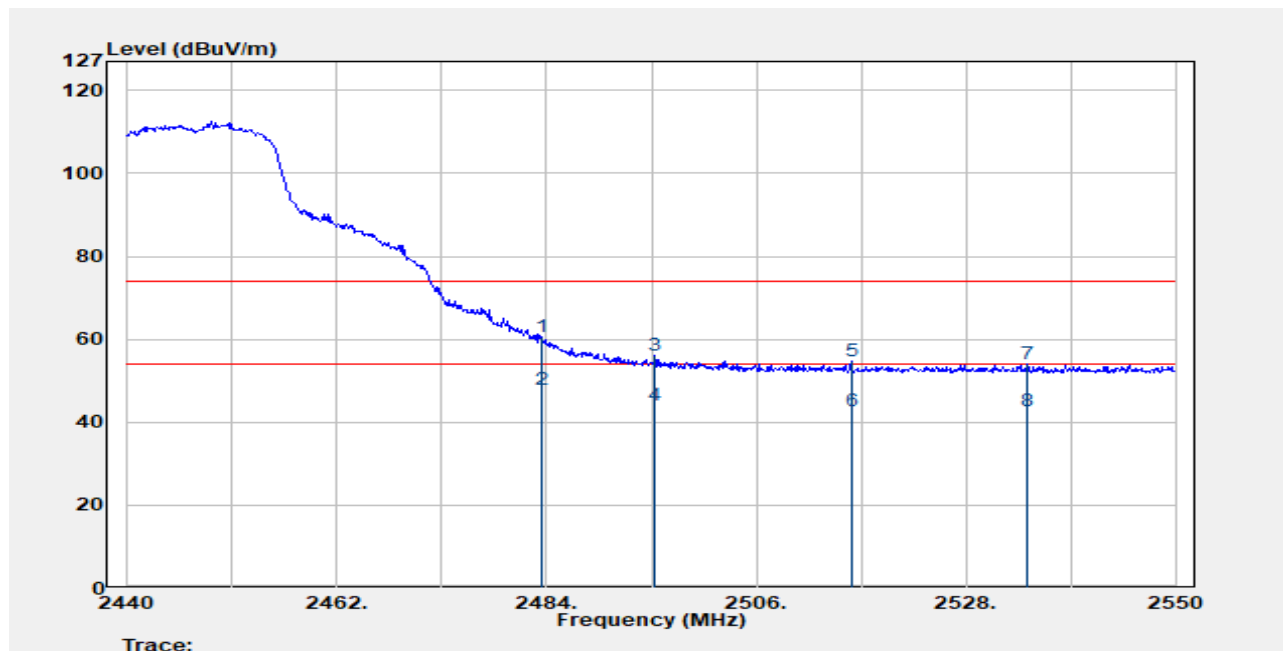
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	59.83	0.67	60.50	74.00	-13.50
2483.500	Average	47.32	0.67	47.99	54.00	-6.01
2495.330	Peak	55.40	0.62	56.03	74.00	-17.97
2495.330	Average	43.44	0.62	44.06	54.00	-9.94
2516.010	Peak	54.05	0.67	54.73	74.00	-19.27
2516.010	Average	42.04	0.67	42.71	54.00	-11.29
2534.380	Peak	53.17	0.75	53.91	74.00	-20.09
2534.380	Average	41.77	0.75	42.52	54.00	-11.48

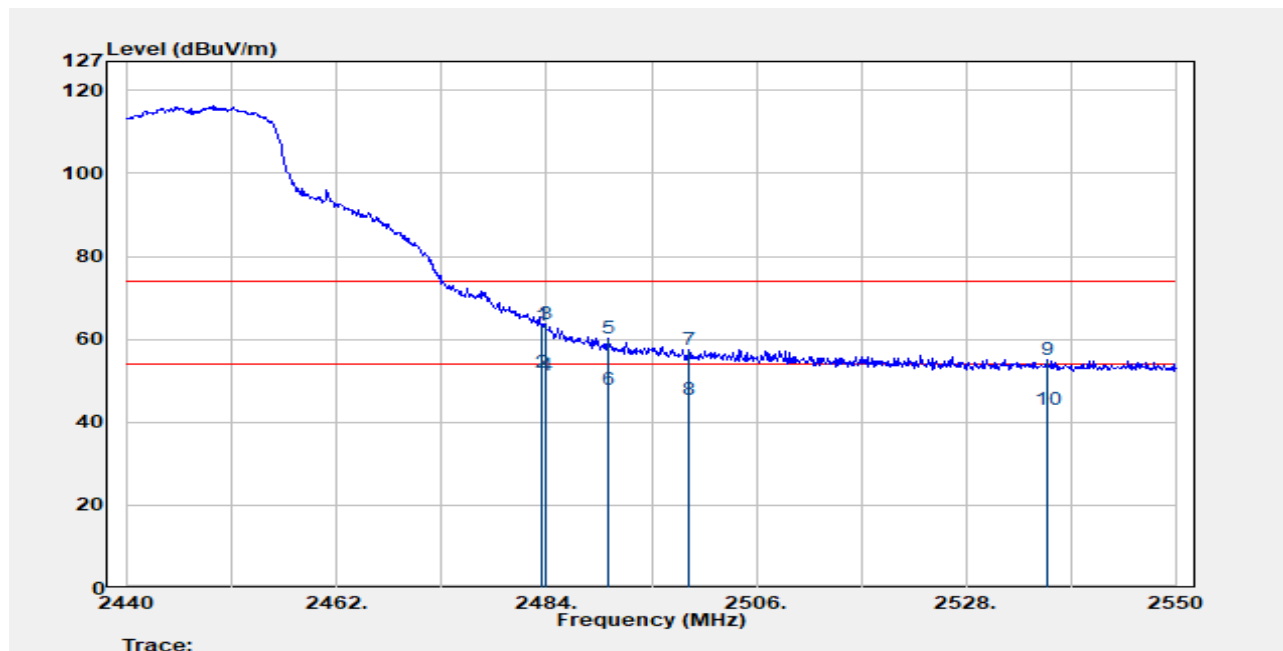
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	62.53	0.67	63.20	74.00	-10.80
2483.500	Average	51.16	0.67	51.83	54.00	-2.17
2483.890	Peak	63.05	0.67	63.72	74.00	-10.28
2483.890	Average	50.59	0.67	51.26	54.00	-2.74
2490.380	Peak	59.45	0.64	60.09	74.00	-13.91
2490.380	Average	47.16	0.64	47.80	54.00	-6.20
2498.960	Peak	56.96	0.61	57.57	74.00	-16.43
2498.960	Average	44.91	0.61	45.52	54.00	-8.48
2536.470	Peak	54.46	0.75	55.22	74.00	-18.78
2536.470	Average	42.36	0.75	43.11	54.00	-10.89

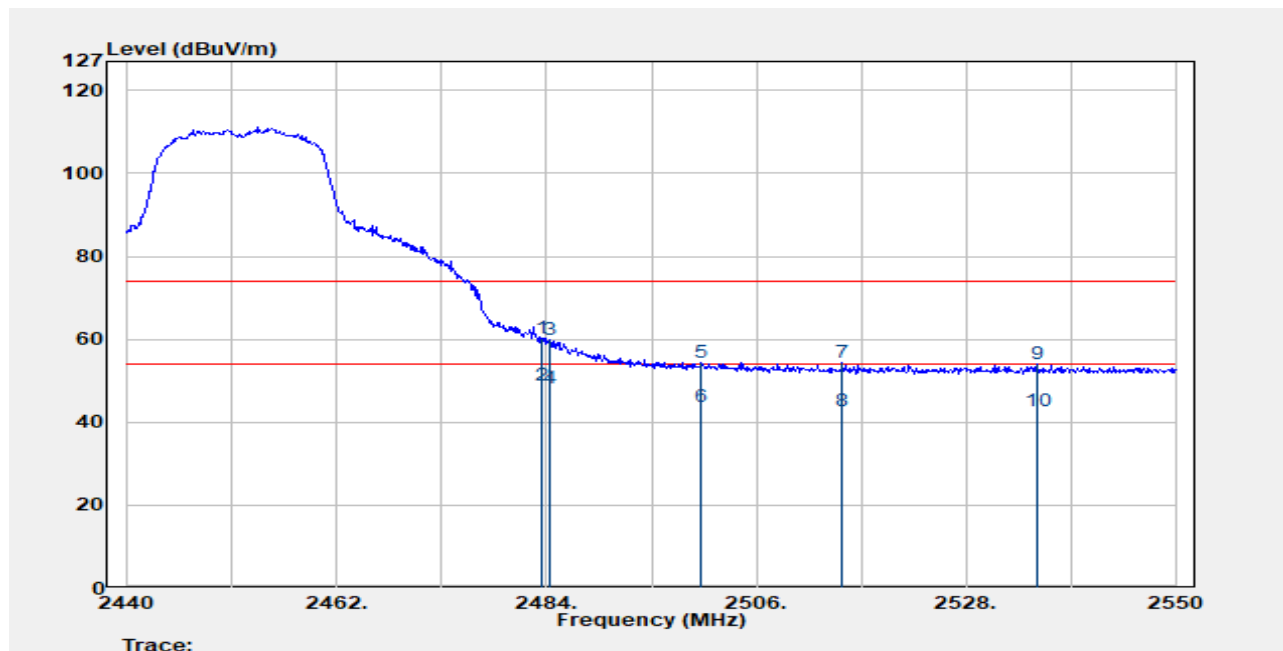
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	59.57	0.67	60.24	74.00	-13.76
2483.500	Average	48.12	0.67	48.79	54.00	-5.21
2484.330	Peak	59.38	0.67	60.04	74.00	-13.96
2484.330	Average	47.55	0.67	48.22	54.00	-5.78
2500.280	Peak	53.79	0.61	54.40	74.00	-19.60
2500.280	Average	43.27	0.61	43.88	54.00	-10.12
2515.020	Peak	53.60	0.67	54.27	74.00	-19.73
2515.020	Average	42.11	0.67	42.78	54.00	-11.22
2535.590	Peak	53.19	0.75	53.94	74.00	-20.06
2535.590	Average	41.83	0.75	42.58	54.00	-11.42

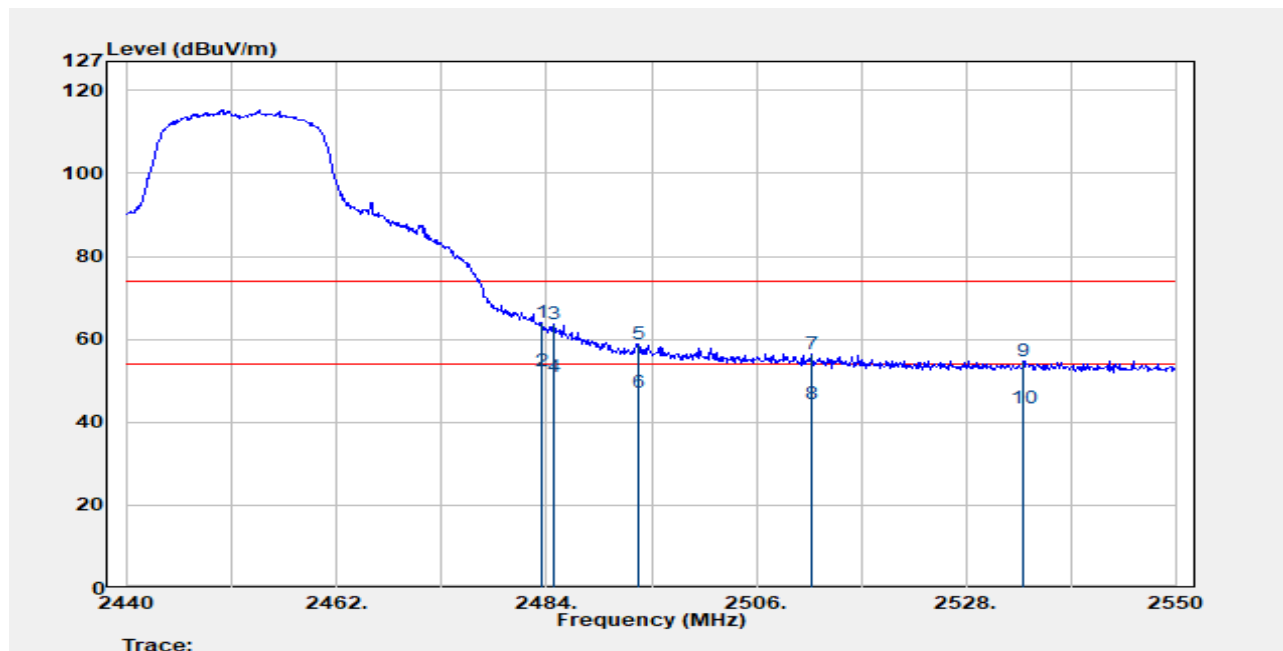
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Peak	63.25	0.67	63.92	74.00	-10.08
2483.500	Average	51.49	0.67	52.16	54.00	-1.84
2484.770	Peak	62.87	0.66	63.53	74.00	-10.47
2484.770	Average	50.42	0.66	51.08	54.00	-2.92
2493.570	Peak	58.39	0.63	59.02	74.00	-14.98
2493.570	Average	46.42	0.63	47.05	54.00	-6.95
2511.830	Peak	55.79	0.65	56.44	74.00	-17.56
2511.830	Average	43.82	0.65	44.47	54.00	-9.53
2534.050	Peak	54.11	0.75	54.86	74.00	-19.14
2534.050	Average	42.59	0.75	43.34	54.00	-10.66

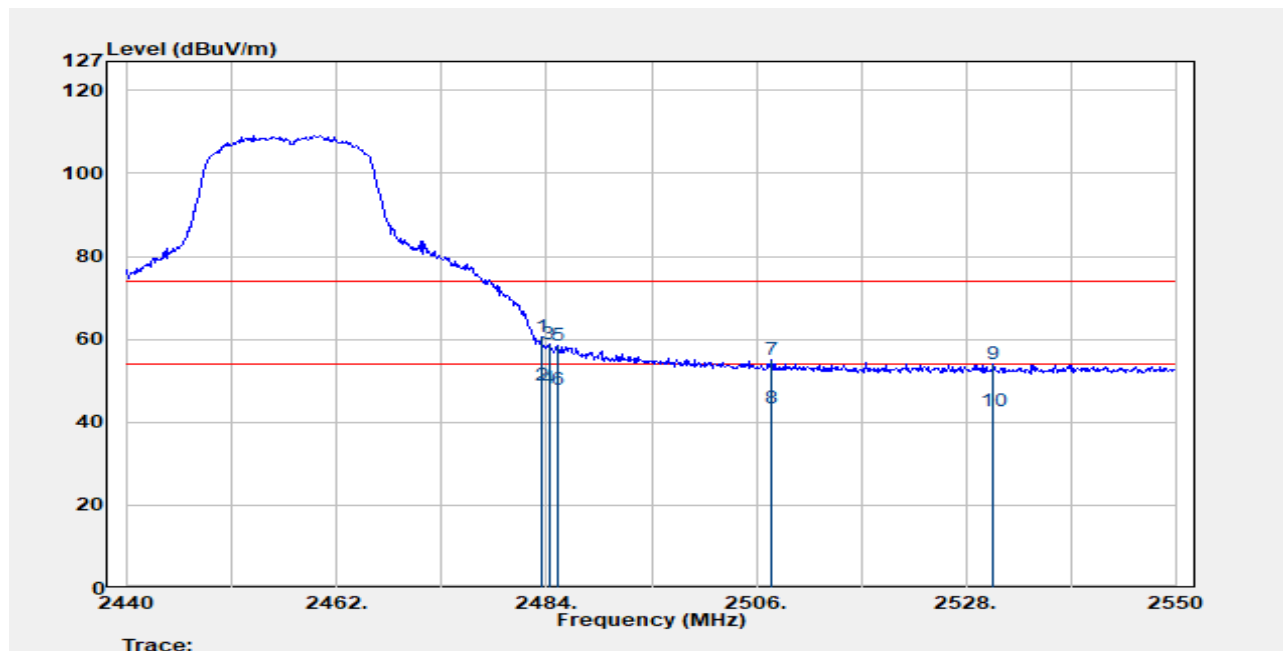
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



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	Peak	59.81	0.67	60.48	74.00	-13.52
2483.500	Average	48.15	0.67	48.82	54.00	-5.18
2484.220	Peak	58.35	0.67	59.01	74.00	-14.99
2484.220	Average	47.47	0.67	48.14	54.00	-5.86
2485.210	Peak	57.85	0.66	58.51	74.00	-15.49
2485.210	Average	47.08	0.66	47.74	54.00	-6.26
2507.540	Peak	54.42	0.64	55.06	74.00	-18.94
2507.540	Average	42.77	0.64	43.41	54.00	-10.59
2530.860	Peak	53.45	0.73	54.18	74.00	-19.82
2530.860	Average	41.98	0.73	42.71	54.00	-11.29

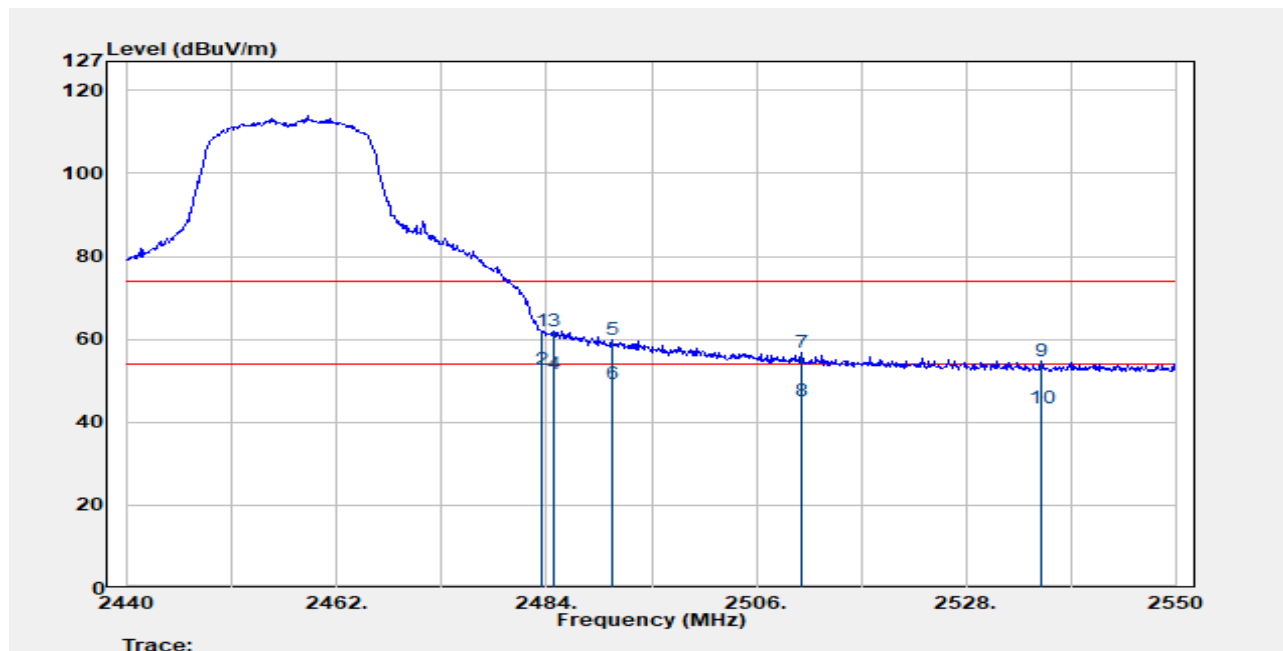
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	Peak	61.42	0.67	62.09	74.00	-11.91
2483.500	Average	51.82	0.67	52.49	54.00	-1.51
2484.660	Peak	61.45	0.66	62.12	74.00	-11.88
2484.660	Average	51.02	0.66	51.68	54.00	-2.32
2490.820	Peak	59.09	0.64	59.73	74.00	-14.27
2490.820	Average	48.71	0.64	49.35	54.00	-4.65
2510.730	Peak	56.06	0.65	56.71	74.00	-17.29
2510.730	Average	44.41	0.65	45.06	54.00	-8.94
2535.920	Peak	53.96	0.75	54.71	74.00	-19.29
2535.920	Average	42.53	0.75	43.28	54.00	-10.72

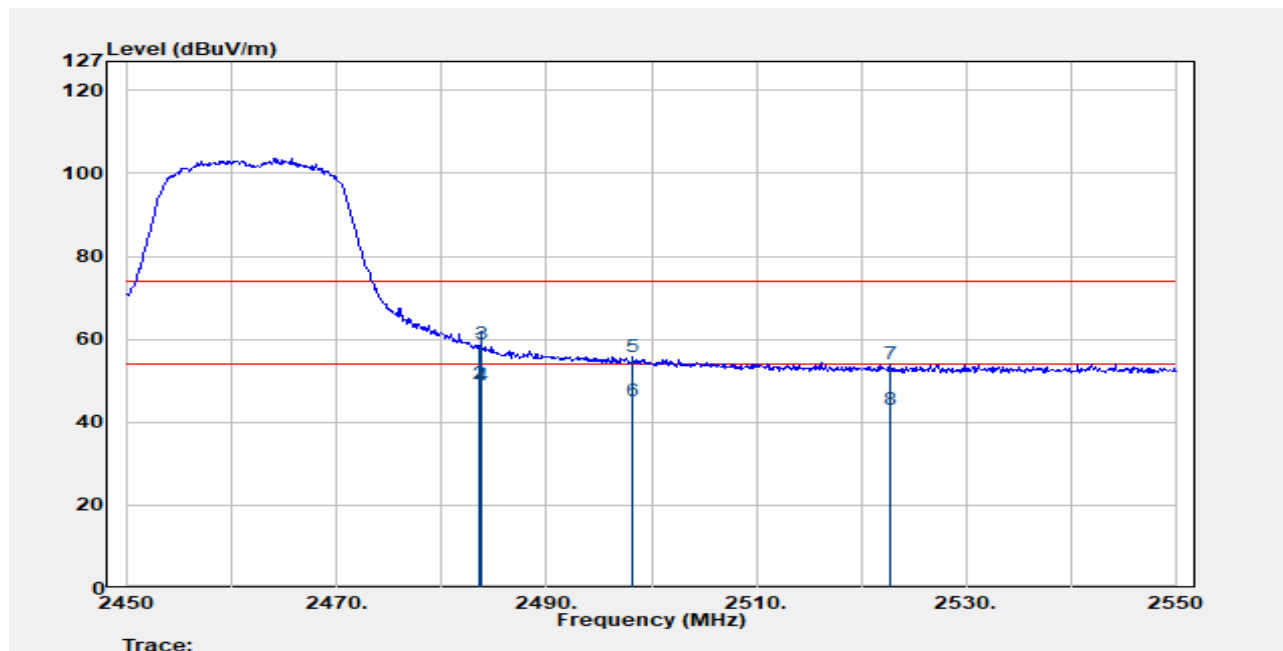
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	56.99	0.67	57.66	74.00	-16.34
2483.500	Average	48.45	0.67	49.12	54.00	-4.88
2483.800	Peak	58.12	0.67	58.78	74.00	-15.22
2483.800	Average	48.19	0.67	48.86	54.00	-5.14
2498.200	Peak	55.24	0.61	55.85	74.00	-18.15
2498.200	Average	44.49	0.61	45.10	54.00	-8.90
2522.700	Peak	53.39	0.70	54.09	74.00	-19.91
2522.700	Average	42.33	0.70	43.03	54.00	-10.97

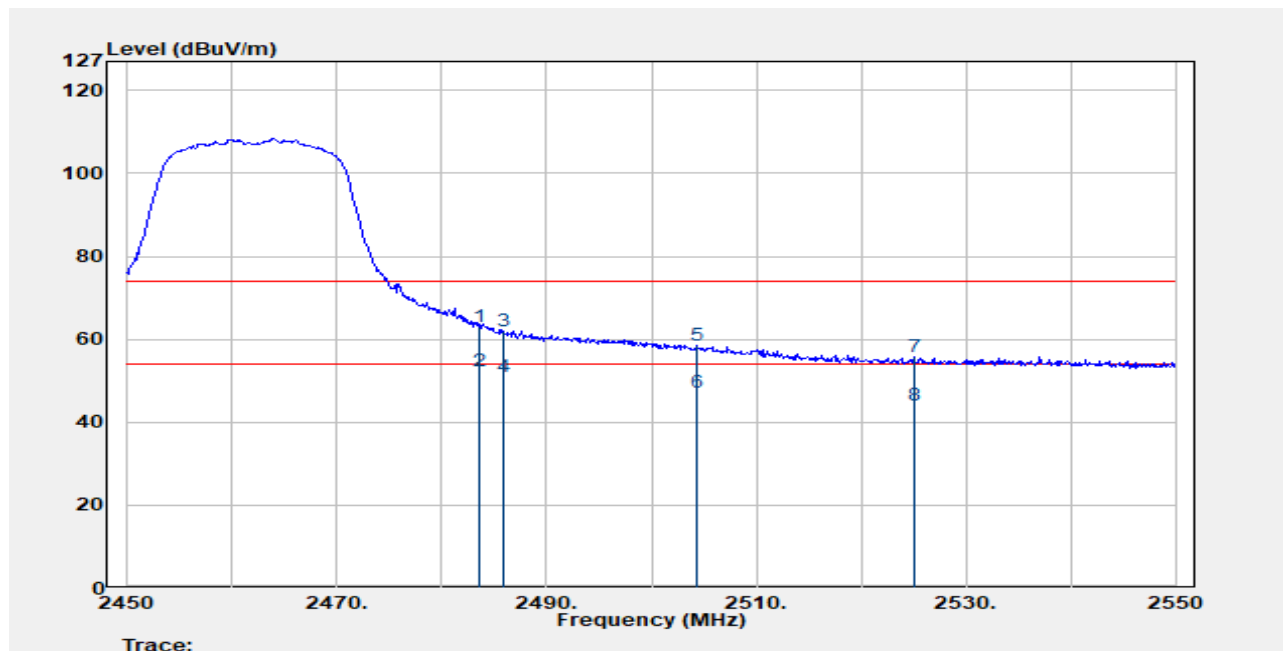
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	62.36	0.67	63.03	74.00	-10.97
2483.500	Average	51.71	0.67	52.38	54.00	-1.62
2485.900	Peak	61.46	0.66	62.12	74.00	-11.88
2485.900	Average	50.22	0.66	50.88	54.00	-3.12
2504.300	Peak	57.73	0.62	58.35	74.00	-15.65
2504.300	Average	46.49	0.62	47.11	54.00	-6.89
2525.000	Peak	55.00	0.71	55.71	74.00	-18.29
2525.000	Average	43.48	0.71	44.19	54.00	-9.81

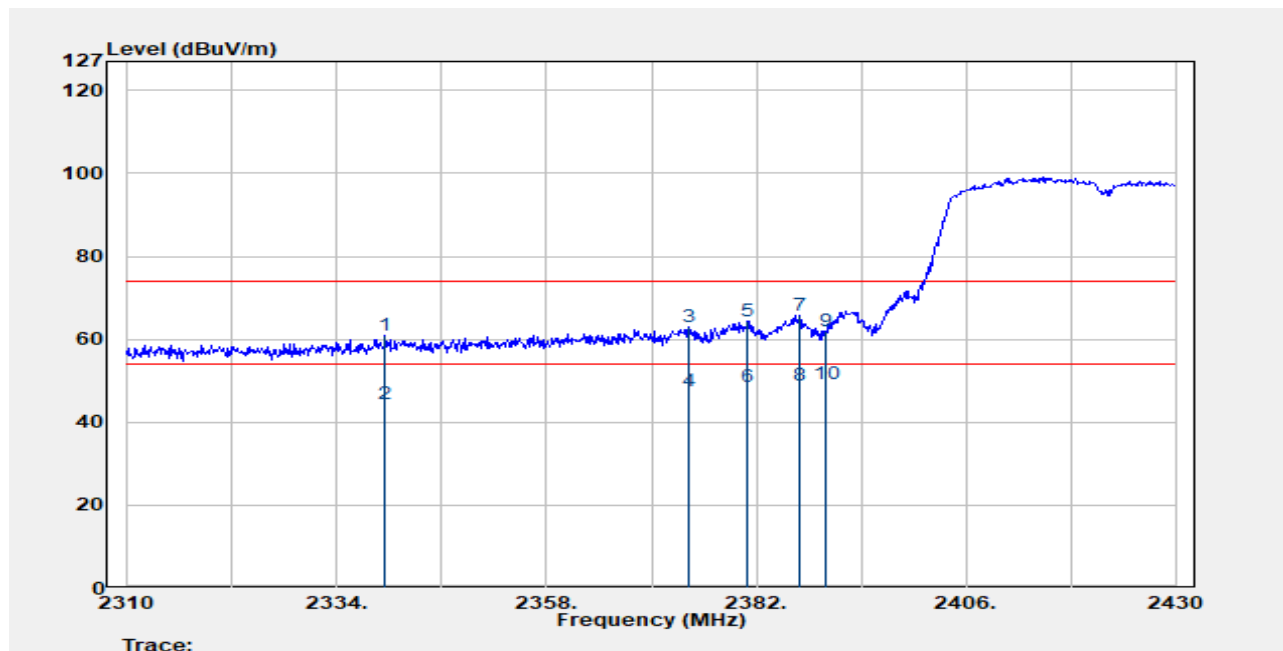
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2339.520	Peak	59.95	1.04	60.99	74.00	-13.01
2339.520	Average	43.22	1.04	44.26	54.00	-9.74
2374.200	Peak	62.11	0.95	63.06	74.00	-10.94
2374.200	Average	46.69	0.95	47.64	54.00	-6.36
2381.040	Peak	63.43	0.93	64.37	74.00	-9.63
2381.040	Average	47.56	0.93	48.49	54.00	-5.51
2386.920	Peak	64.68	0.92	65.61	74.00	-8.39
2386.920	Average	47.98	0.92	48.90	54.00	-5.10
2390.000	Peak	61.11	0.92	62.03	74.00	-11.97
2390.000	Average	48.27	0.92	49.19	54.00	-4.81

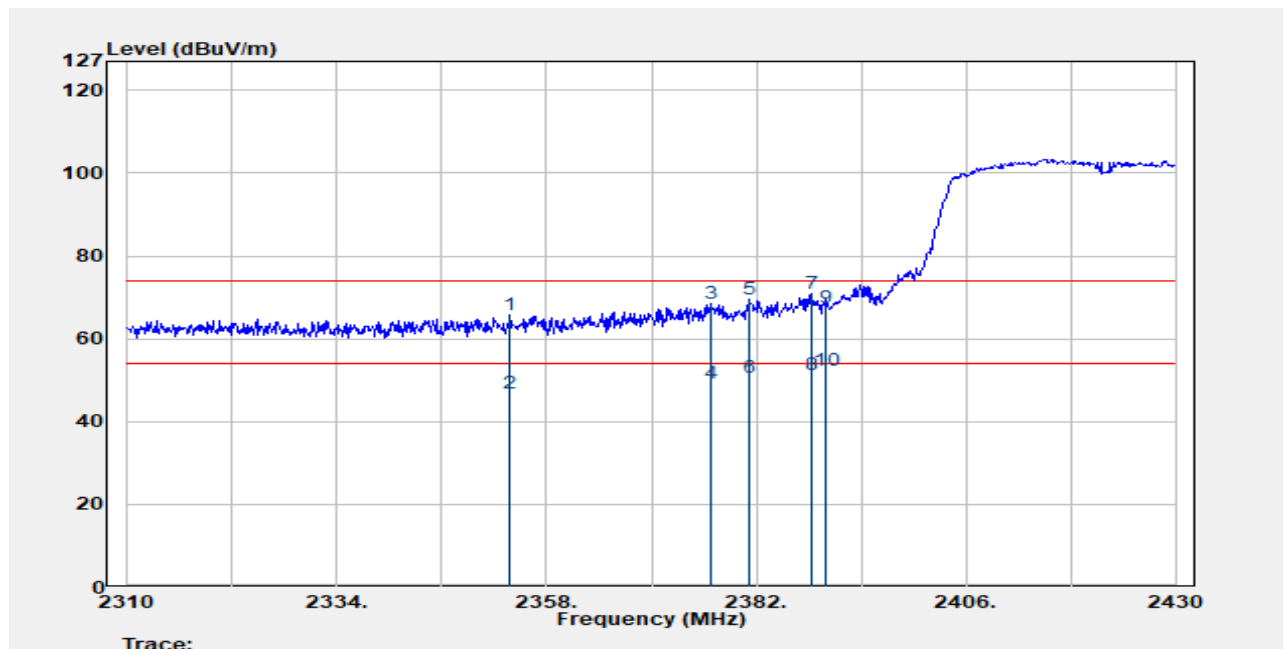
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Report Number :ER-2021-90005
Operation Mode :802.11n40
Test Frequency :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-18
Temp./Humi. :26.1/64
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2353.800	Peak	64.81	0.99	65.80	74.00	-8.20
2353.800	Average	45.76	0.99	46.75	54.00	-7.25
2376.840	Peak	67.57	0.94	68.51	74.00	-5.49
2376.840	Average	48.29	0.94	49.23	54.00	-4.77
2381.160	Peak	68.43	0.93	69.36	74.00	-4.64
2381.160	Average	49.69	0.93	50.62	54.00	-3.38
2388.360	Peak	69.96	0.92	70.88	74.00	-3.12
2388.360	Average	50.36	0.92	51.28	54.00	-2.72
2390.000	Peak	66.37	0.92	67.29	74.00	-6.71
2390.000	Average	51.37	0.92	52.29	54.00	-1.71

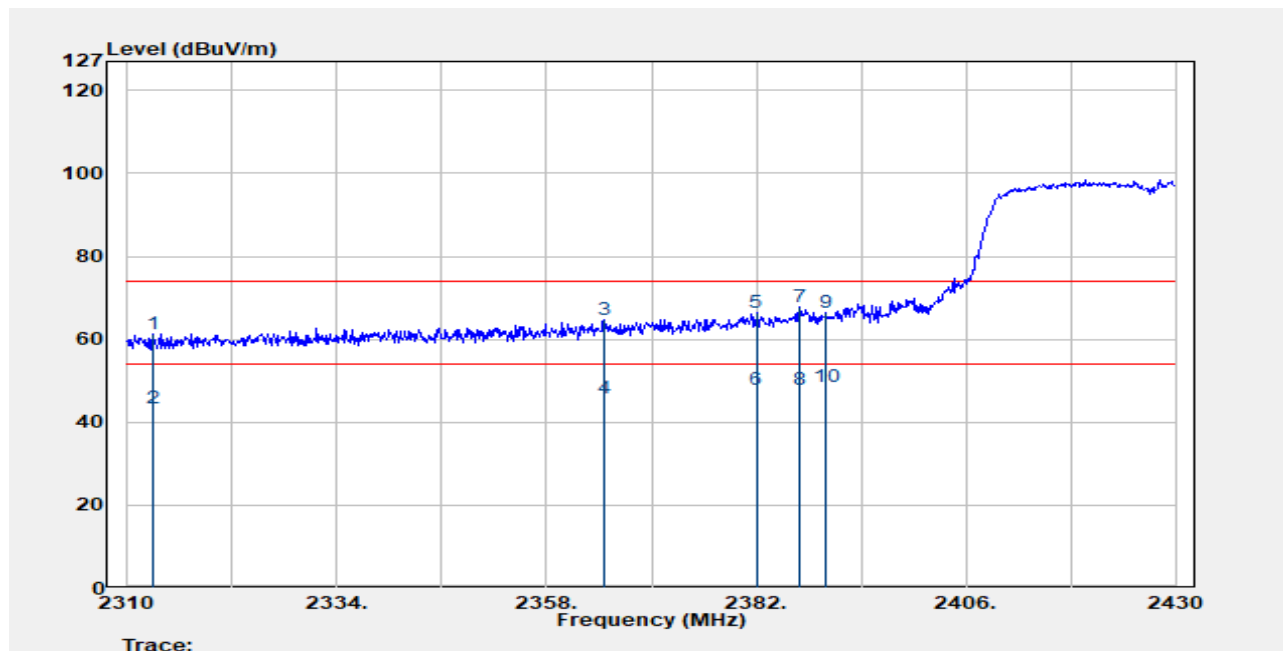
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2312.880	Peak	60.25	1.15	61.41	74.00	-12.59
2312.880	Average	42.34	1.15	43.49	54.00	-10.51
2364.480	Peak	63.58	0.97	64.55	74.00	-9.45
2364.480	Average	44.82	0.97	45.79	54.00	-8.21
2382.000	Peak	65.55	0.93	66.49	74.00	-7.51
2382.000	Average	46.77	0.93	47.70	54.00	-6.30
2387.040	Peak	66.78	0.92	67.70	74.00	-6.30
2387.040	Average	46.96	0.92	47.88	54.00	-6.12
2390.000	Peak	65.45	0.92	66.37	74.00	-7.63
2390.000	Average	47.49	0.92	48.41	54.00	-5.59

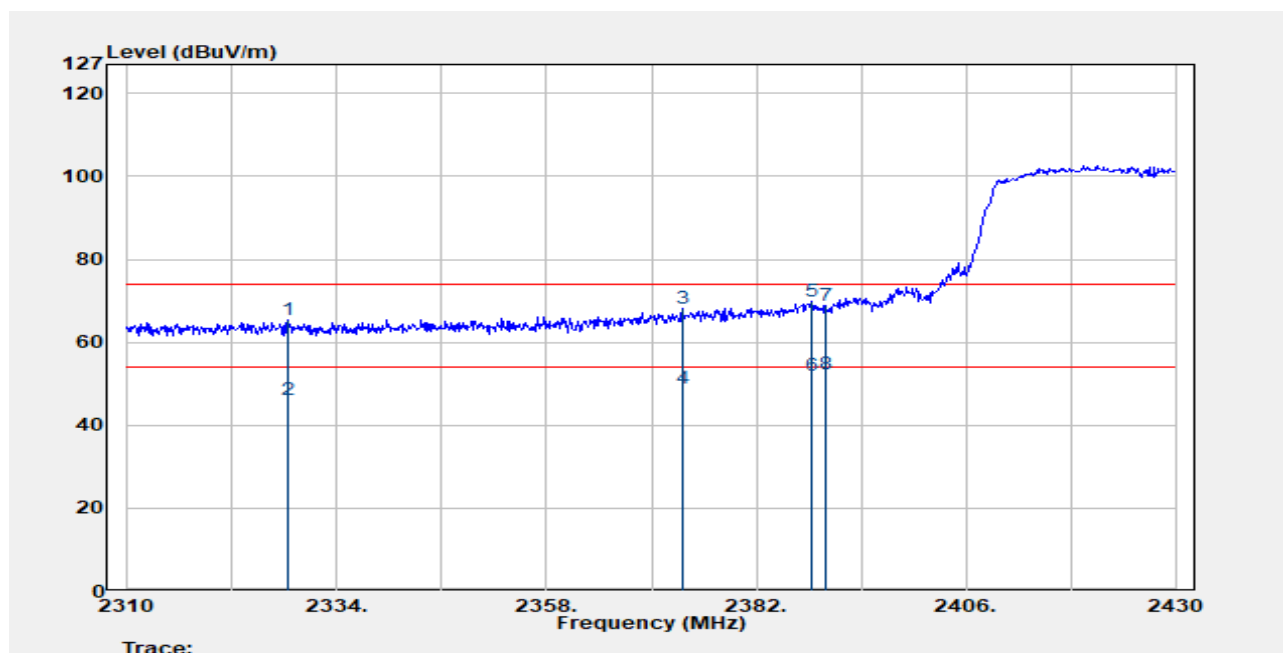
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2427 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2328.360	Peak	64.17	1.09	65.26	74.00	-8.74
2328.360	Average	45.14	1.09	46.23	54.00	-7.77
2373.480	Peak	67.09	0.95	68.04	74.00	-5.96
2373.480	Average	47.76	0.95	48.71	54.00	-5.29
2388.360	Peak	69.10	0.92	70.02	74.00	-3.98
2388.360	Average	50.96	0.92	51.88	54.00	-2.12
2390.000	Peak	67.94	0.92	68.86	74.00	-5.14
2390.000	Average	51.38	0.92	52.30	54.00	-1.70

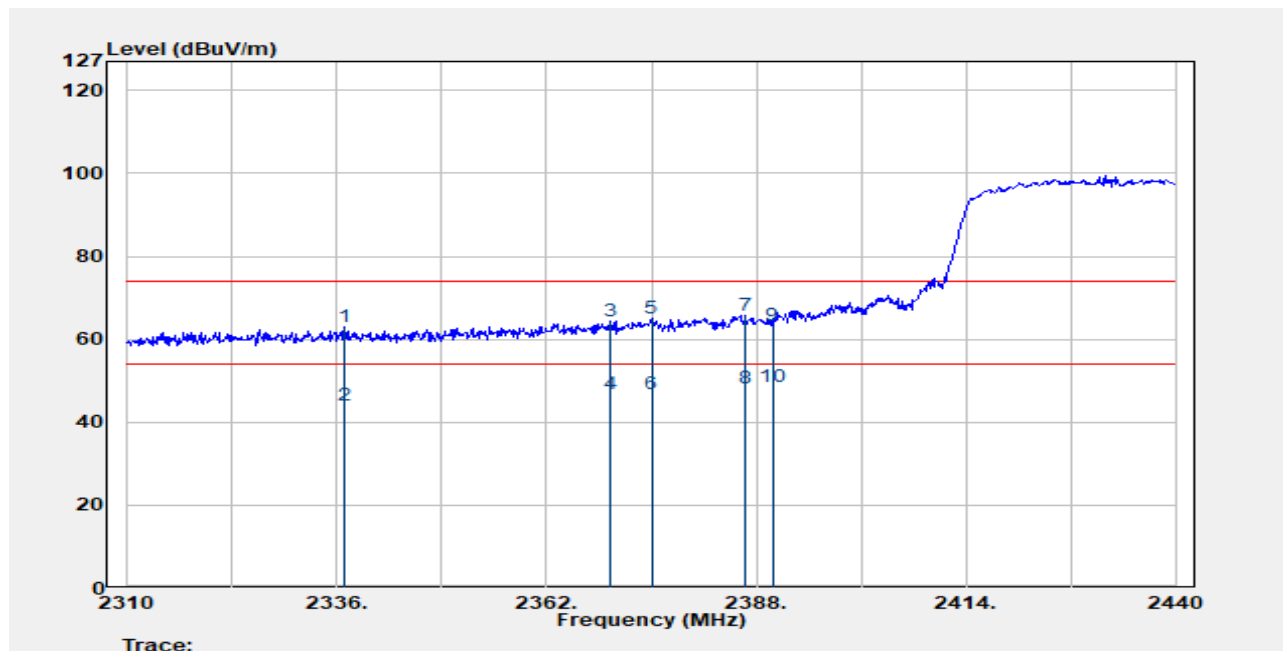
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2336.910	Peak	61.94	1.06	62.99	74.00	-11.01
2336.910	Average	43.11	1.06	44.17	54.00	-9.83
2369.930	Peak	63.41	0.96	64.36	74.00	-9.64
2369.930	Average	45.93	0.96	46.89	54.00	-7.11
2375.000	Peak	63.94	0.95	64.88	74.00	-9.12
2375.000	Average	45.72	0.95	46.67	54.00	-7.33
2386.700	Peak	64.86	0.92	65.78	74.00	-8.22
2386.700	Average	47.12	0.92	48.04	54.00	-5.96
2390.000	Peak	62.33	0.92	63.25	74.00	-10.75
2390.000	Average	47.62	0.92	48.54	54.00	-5.46

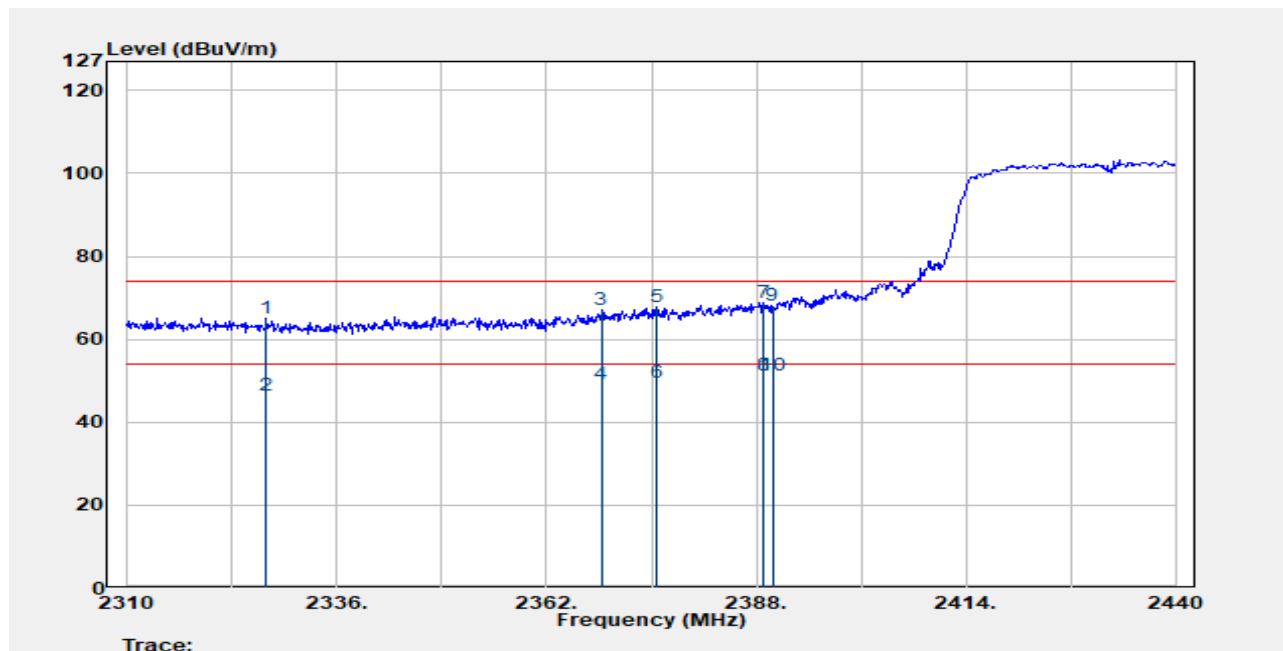
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2432 MHz
 Test Mode :Bandedge CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2327.160	Peak	63.96	1.10	65.06	74.00	-8.94
2327.160	Average	45.32	1.10	46.42	54.00	-7.58
2368.760	Peak	66.21	0.96	67.18	74.00	-6.82
2368.760	Average	48.09	0.96	49.05	54.00	-4.95
2375.650	Peak	66.76	0.95	67.71	74.00	-6.29
2375.650	Average	48.46	0.95	49.41	54.00	-4.59
2388.910	Peak	67.96	0.92	68.88	74.00	-5.12
2388.910	Average	50.23	0.92	51.15	54.00	-2.85
2390.000	Peak	67.28	0.92	68.20	74.00	-5.80
2390.000	Average	50.51	0.92	51.43	54.00	-2.57

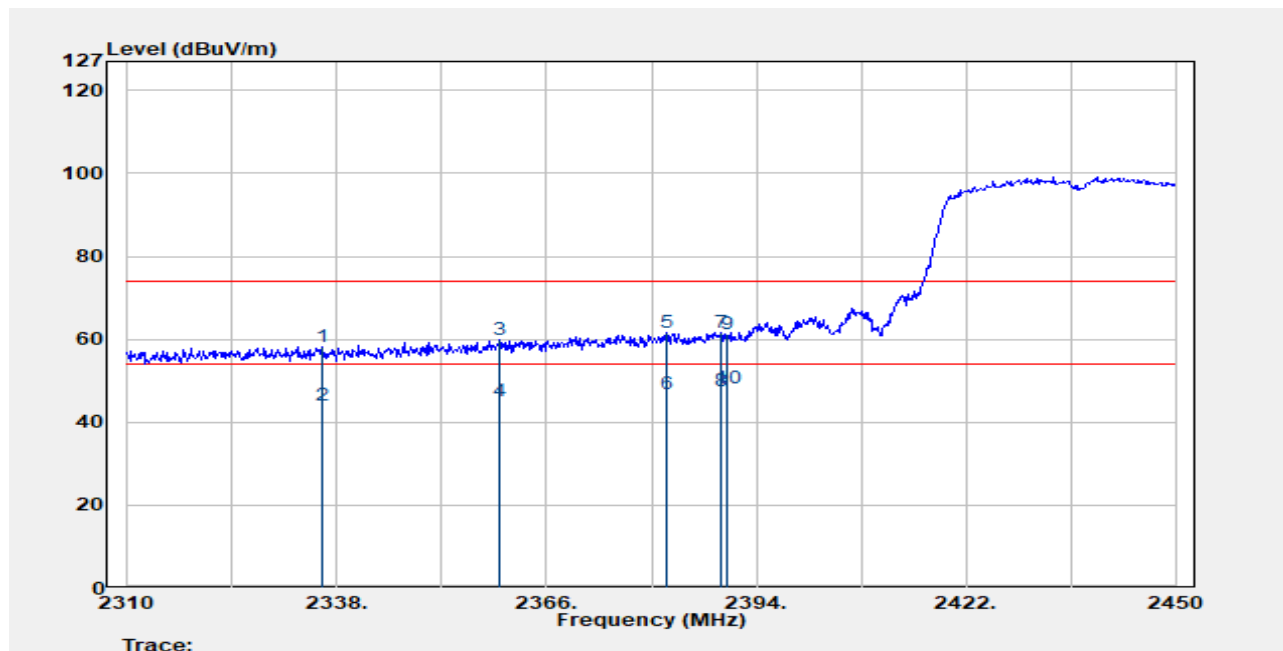
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Bandedge CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2335.900	Peak	57.18	1.06	58.24	74.00	-15.76
2335.900	Average	42.92	1.06	43.98	54.00	-10.02
2359.700	Peak	58.94	0.98	59.92	74.00	-14.08
2359.700	Average	44.03	0.98	45.01	54.00	-8.99
2381.960	Peak	60.61	0.93	61.54	74.00	-12.46
2381.960	Average	45.86	0.93	46.79	54.00	-7.21
2389.240	Peak	60.63	0.92	61.55	74.00	-12.45
2389.240	Average	46.43	0.92	47.35	54.00	-6.65
2390.000	Peak	60.52	0.92	61.43	74.00	-12.57
2390.000	Average	47.21	0.92	48.13	54.00	-5.87

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Report Number :ER-2021-90005

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

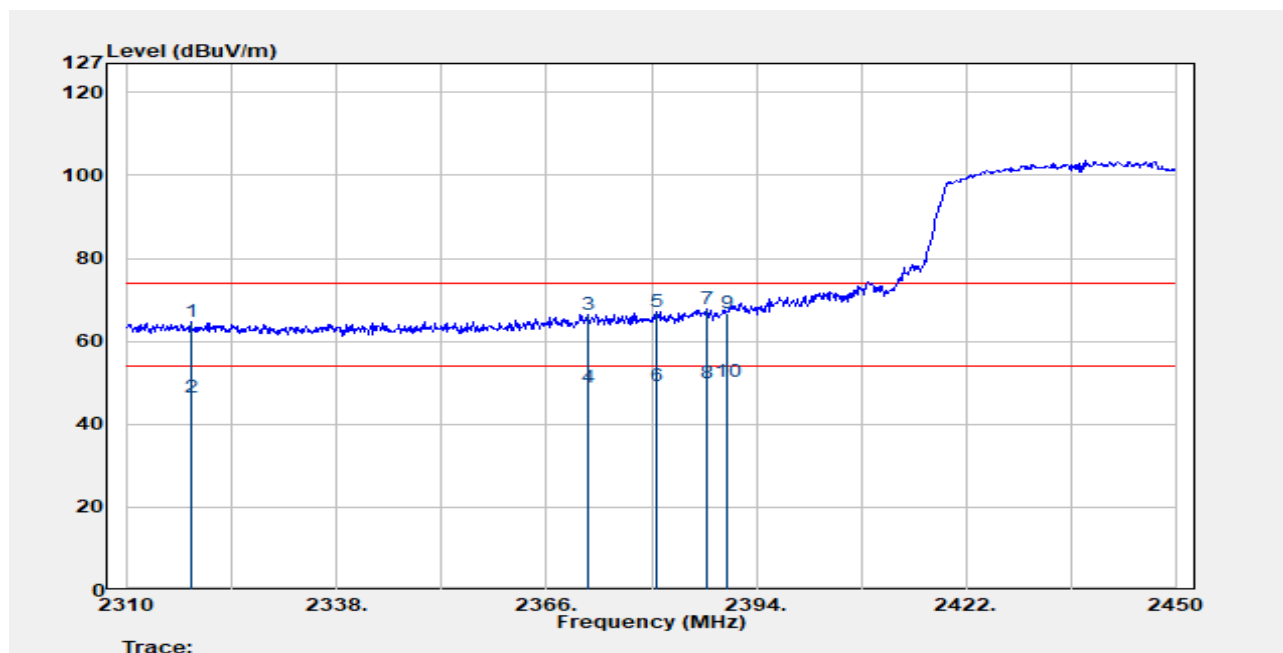
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Horizontal

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2318.400	Peak	63.63	1.13	64.77	74.00	-9.23
2318.400	Average	45.26	1.13	46.39	54.00	-7.61
2371.600	Peak	65.60	0.96	66.55	74.00	-7.45
2371.600	Average	47.82	0.96	48.78	54.00	-5.22
2380.560	Peak	66.19	0.94	67.12	74.00	-6.88
2380.560	Average	48.16	0.94	49.10	54.00	-4.90
2387.420	Peak	66.79	0.92	67.71	74.00	-6.29
2387.420	Average	48.87	0.92	49.79	54.00	-4.21
2390.000	Peak	65.99	0.92	66.91	74.00	-7.09
2390.000	Average	49.49	0.92	50.41	54.00	-3.59

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Report Number :ER-2021-90005

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

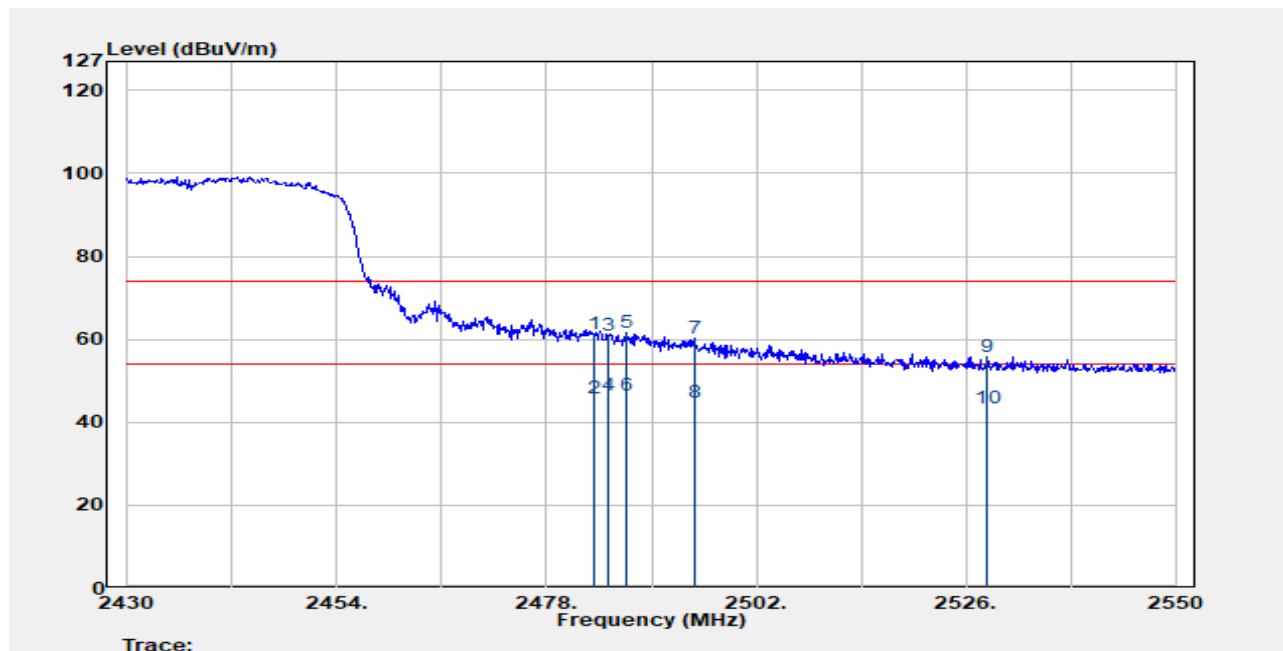
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Vertical

Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	60.62	0.67	61.29	74.00	-12.71
2483.500	Average	45.16	0.67	45.83	54.00	-8.17
2485.100	Peak	60.20	0.66	60.86	74.00	-13.14
2485.100	Average	45.81	0.66	46.47	54.00	-7.53
2487.120	Peak	60.84	0.66	61.50	74.00	-12.50
2487.120	Average	45.85	0.66	46.51	54.00	-7.49
2494.920	Peak	59.69	0.63	60.32	74.00	-13.68
2494.920	Average	44.22	0.63	44.85	54.00	-9.15
2528.520	Peak	55.20	0.72	55.92	74.00	-18.08
2528.520	Average	42.52	0.72	43.24	54.00	-10.76

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Report Number :ER-2021-90005

Operation Mode :802.11n40

Test Frequency :2437 MHz

Test Mode :Bandedge CH Mid

EUT Pol :E2 Plane

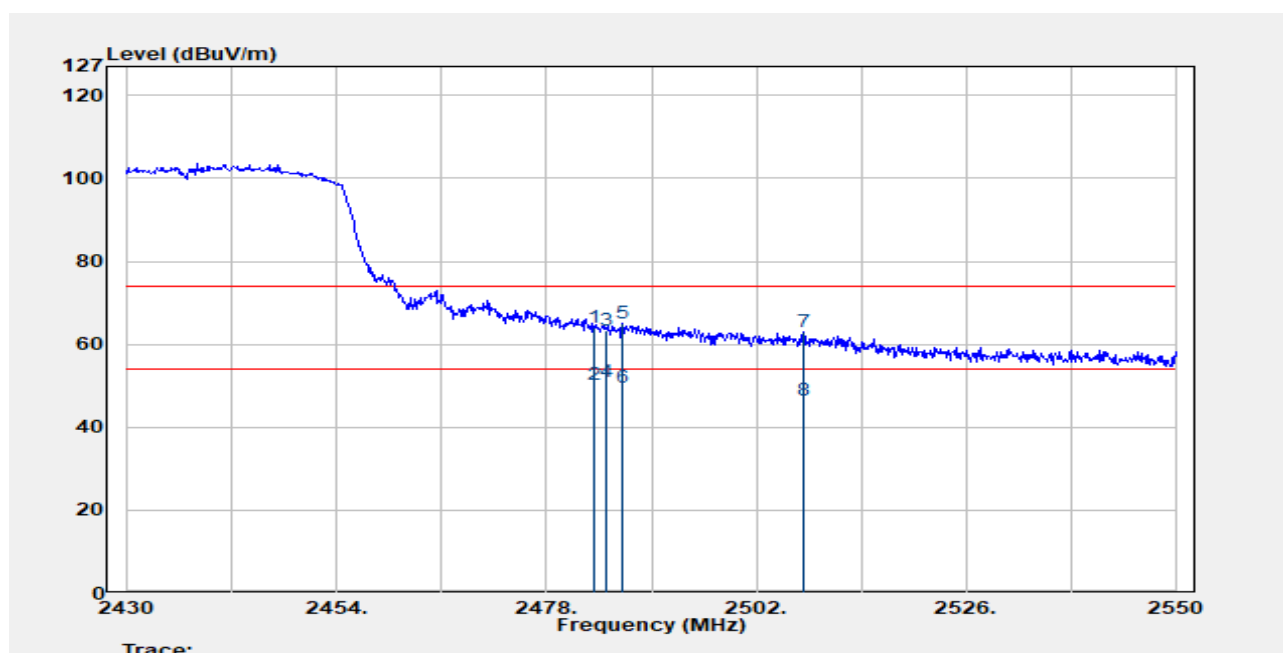
Test Site :SAC 3

Test Date :2021-10-18

Temp./Humi. :26.1/64

Antenna Pol. :Horizontal

Engineer :Jack Liu



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	Peak	63.42	0.67	64.09	74.00	-9.91
2483.500	Average	49.41	0.67	50.08	54.00	-3.92
2484.900	Peak	62.59	0.66	63.25	74.00	-10.75
2484.900	Average	50.31	0.66	50.97	54.00	-3.03
2486.760	Peak	64.28	0.66	64.94	74.00	-9.06
2486.760	Average	48.85	0.66	49.51	54.00	-4.49
2507.520	Peak	62.19	0.64	62.83	74.00	-11.17
2507.520	Average	45.95	0.64	46.59	54.00	-7.41

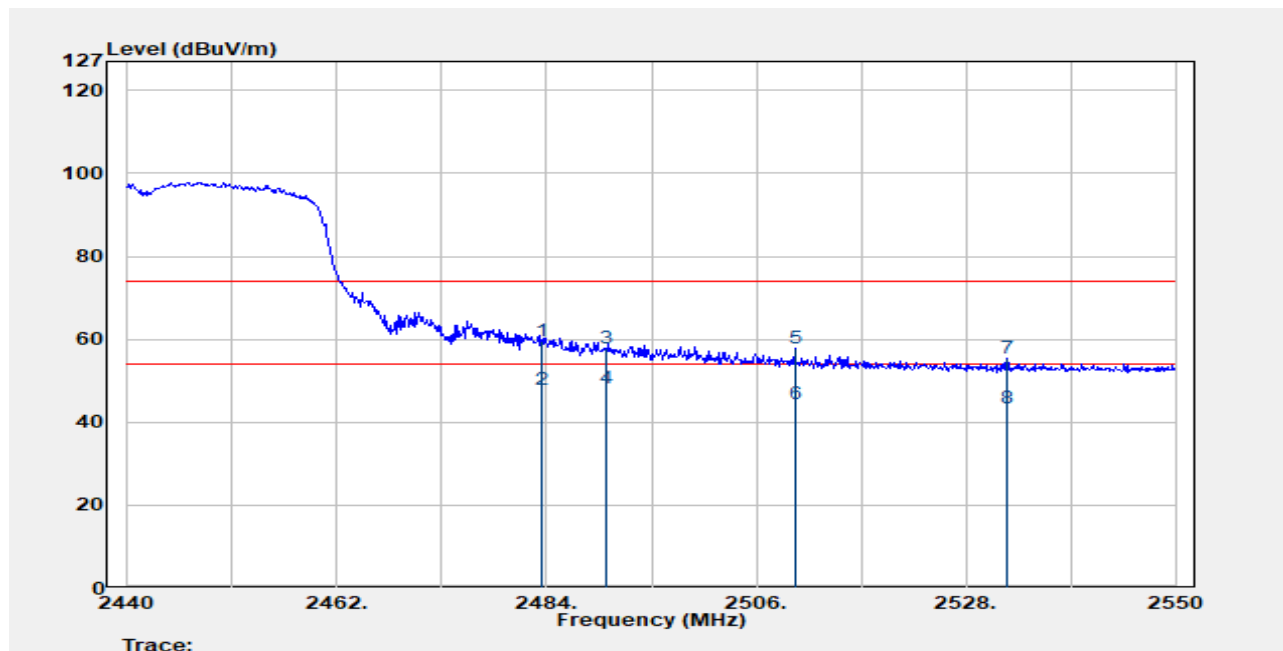
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	58.85	0.67	59.52	74.00	-14.48
2483.500	Average	47.06	0.67	47.73	54.00	-6.27
2490.300	Peak	57.24	0.64	57.89	74.00	-16.11
2490.300	Average	47.71	0.64	48.35	54.00	-5.65
2510.070	Peak	57.13	0.65	57.78	74.00	-16.22
2510.070	Average	43.88	0.65	44.53	54.00	-9.47
2532.290	Peak	54.72	0.74	55.46	74.00	-18.54
2532.290	Average	42.63	0.74	43.37	54.00	-10.63

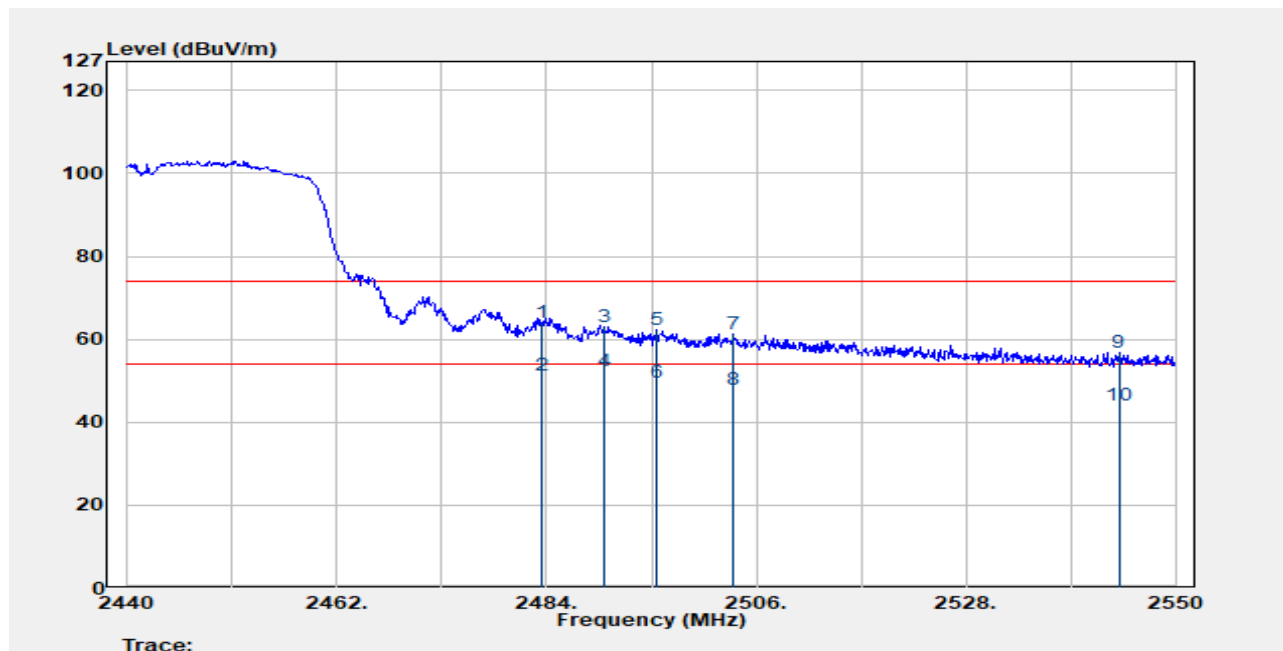
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2442 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	63.41	0.67	64.08	74.00	-9.92
2483.500	Average	50.56	0.67	51.23	54.00	-2.77
2490.000	Peak	62.34	0.64	62.98	74.00	-11.02
2490.000	Average	51.53	0.64	52.17	54.00	-1.83
2495.550	Peak	61.77	0.62	62.39	74.00	-11.61
2495.550	Average	48.81	0.62	49.43	54.00	-4.57
2503.580	Peak	60.52	0.62	61.14	74.00	-12.86
2503.580	Average	47.29	0.62	47.91	54.00	-6.09
2544.060	Peak	55.90	0.79	56.69	74.00	-17.31
2544.060	Average	43.19	0.79	43.98	54.00	-10.02

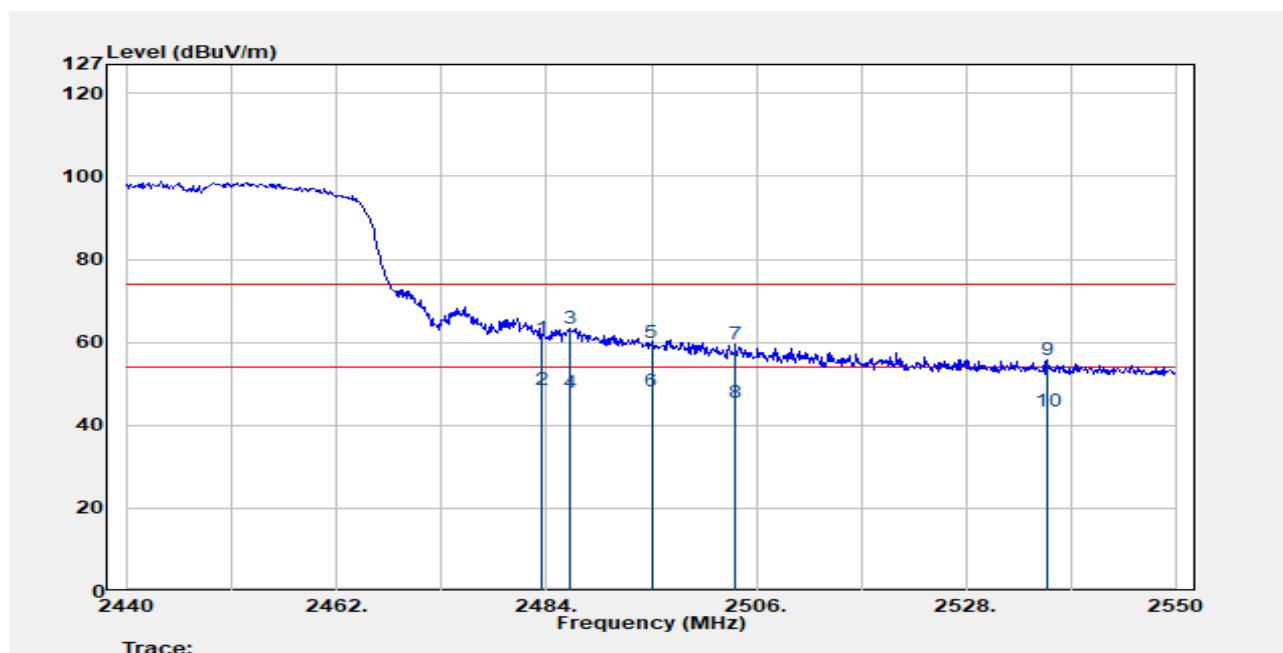
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Report Number :ER-2021-90005
Operation Mode :802.11n40
Test Frequency :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-18
Temp./Humi. :26.1/64
Antenna Pol. :Vertical
Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.500	Peak	60.37	0.67	61.04	74.00	-12.96
2483.500	Average	47.99	0.67	48.66	54.00	-5.34
2486.420	Peak	62.76	0.66	63.42	74.00	-10.58
2486.420	Average	47.26	0.66	47.92	54.00	-6.08
2495.000	Peak	59.10	0.62	59.73	74.00	-14.27
2495.000	Average	47.65	0.62	48.27	54.00	-5.73
2503.800	Peak	58.87	0.62	59.49	74.00	-14.51
2503.800	Average	44.69	0.62	45.31	54.00	-8.69
2536.470	Peak	55.14	0.75	55.89	74.00	-18.11
2536.470	Average	42.65	0.75	43.40	54.00	-10.60

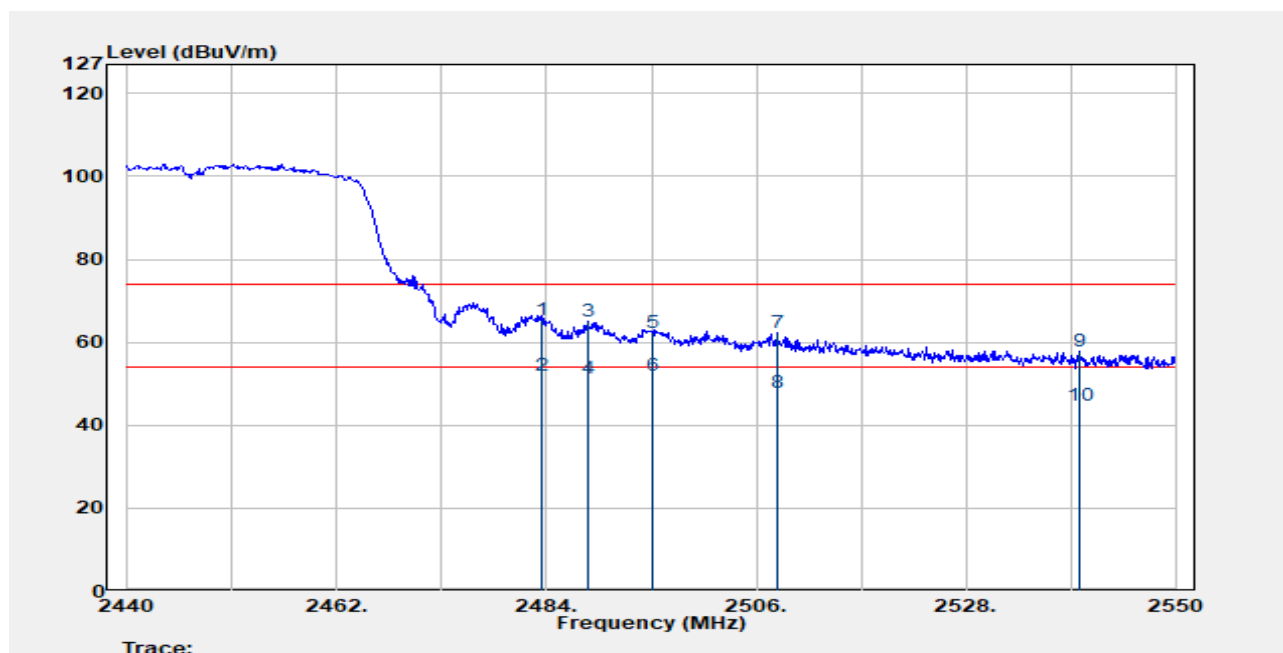
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2447 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



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	Peak	64.79	0.67	65.46	74.00	-8.54
2483.500	Average	51.23	0.67	51.90	54.00	-2.10
2488.290	Peak	64.36	0.65	65.01	74.00	-8.99
2488.290	Average	50.56	0.65	51.21	54.00	-2.79
2495.100	Peak	61.55	0.62	62.18	74.00	-11.82
2495.100	Average	51.46	0.62	52.08	54.00	-1.92
2508.200	Peak	61.81	0.64	62.45	74.00	-11.55
2508.200	Average	47.06	0.64	47.70	54.00	-6.30
2539.880	Peak	57.00	0.77	57.77	74.00	-16.23
2539.880	Average	43.89	0.77	44.66	54.00	-9.34

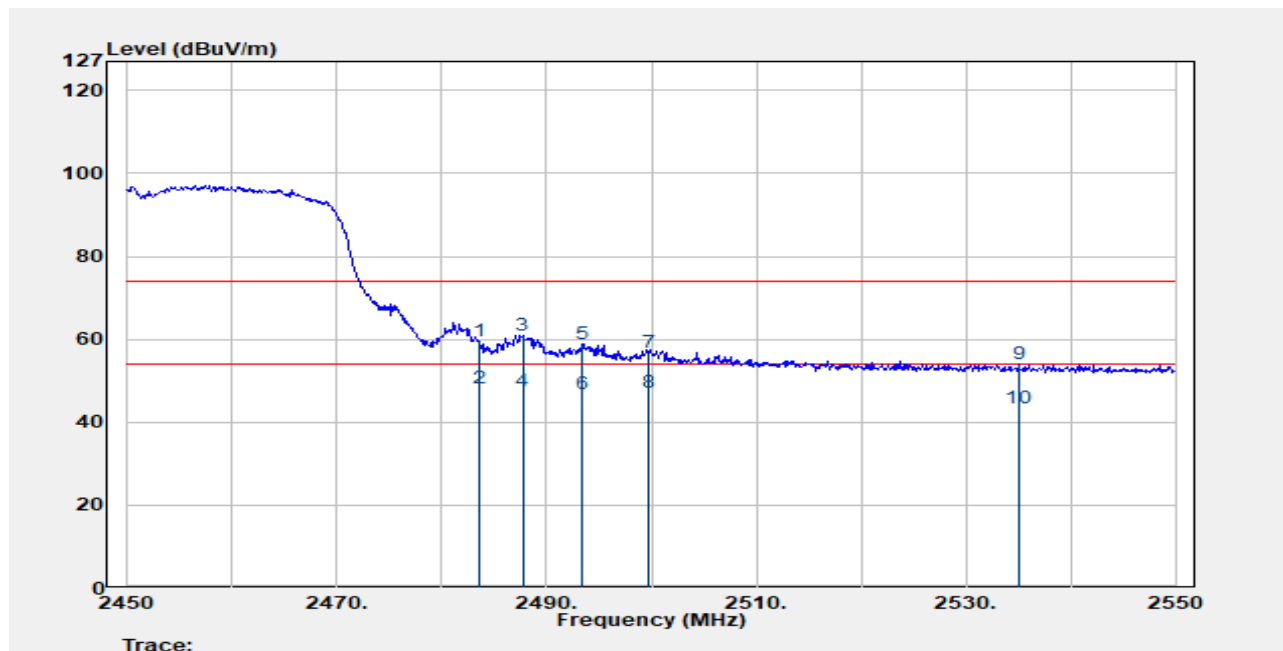
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	58.89	0.67	59.56	74.00	-14.44
2483.500	Average	47.52	0.67	48.19	54.00	-5.81
2487.700	Peak	60.40	0.65	61.06	74.00	-12.94
2487.700	Average	46.69	0.65	47.34	54.00	-6.66
2493.400	Peak	58.33	0.63	58.96	74.00	-15.04
2493.400	Average	46.09	0.63	46.72	54.00	-7.28
2499.800	Peak	56.04	0.61	56.65	74.00	-17.35
2499.800	Average	46.68	0.61	47.29	54.00	-6.71
2535.000	Peak	53.34	0.75	54.09	74.00	-19.91
2535.000	Average	42.48	0.75	43.23	54.00	-10.77

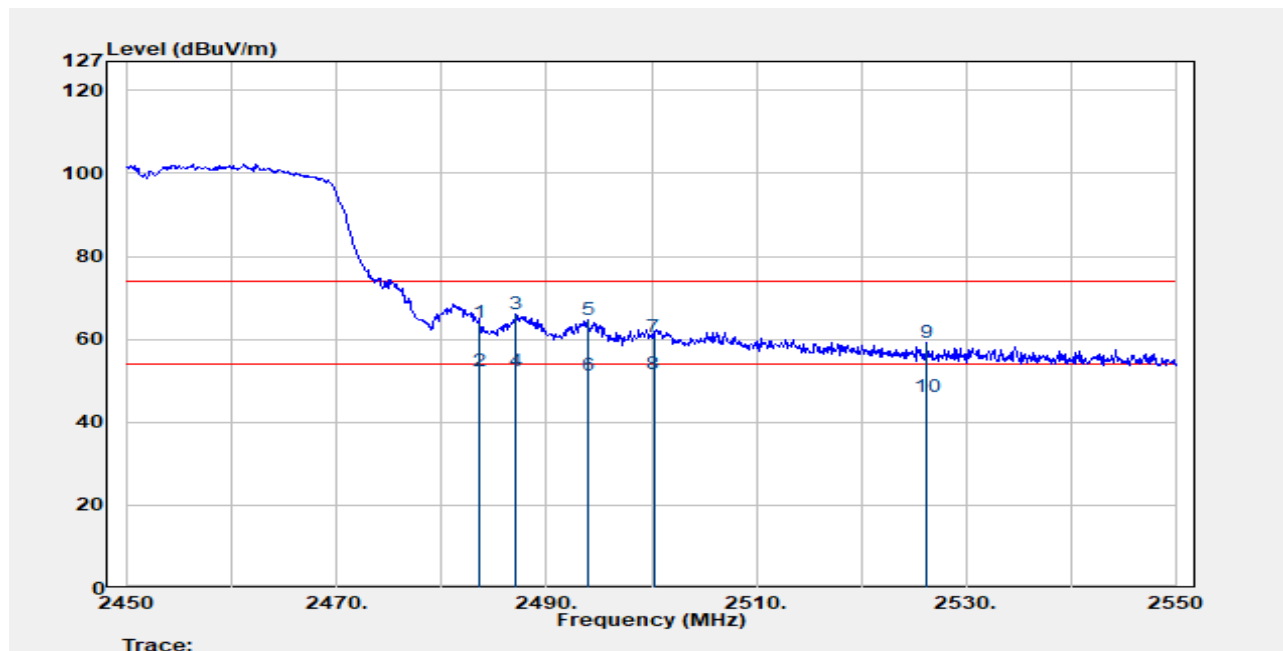
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-18
 Temp./Humi. :26.1/64
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Peak	63.41	0.67	64.08	74.00	-9.92
2483.500	Average	51.59	0.67	52.26	54.00	-1.74
2487.100	Peak	65.40	0.66	66.06	74.00	-7.94
2487.100	Average	51.56	0.66	52.22	54.00	-1.78
2493.900	Peak	64.04	0.63	64.67	74.00	-9.33
2493.900	Average	50.49	0.63	51.12	54.00	-2.88
2500.200	Peak	59.81	0.61	60.42	74.00	-13.58
2500.200	Average	51.06	0.61	51.67	54.00	-2.33
2526.300	Peak	58.43	0.71	59.14	74.00	-14.86
2526.300	Average	45.29	0.71	46.00	54.00	-8.00

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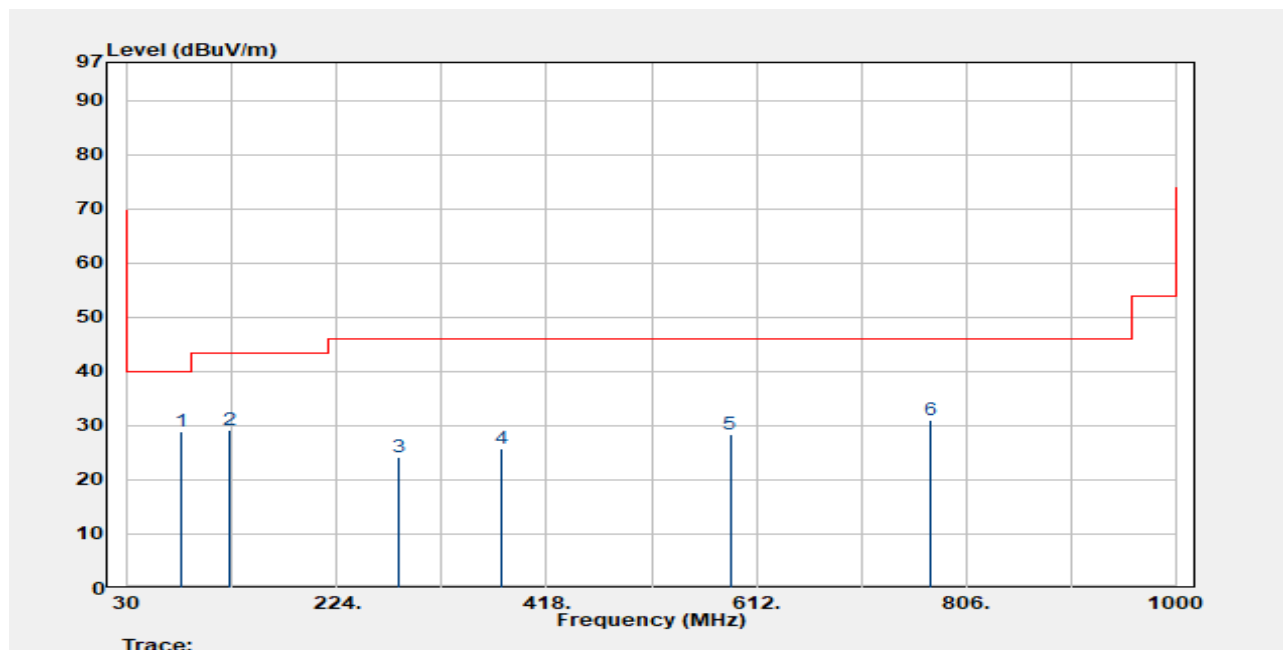
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11.7.2 Spurious Emission:

Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
80.440	Peak	41.14	-12.15	28.99	40.00	-11.01
125.060	Peak	38.44	-9.19	29.25	43.50	-14.25
280.260	Peak	30.68	-6.53	24.15	46.00	-21.85
375.320	Peak	30.37	-4.65	25.71	46.00	-20.29
587.750	Peak	28.51	-0.03	28.47	46.00	-17.53
773.990	Peak	28.92	2.13	31.05	46.00	-14.95

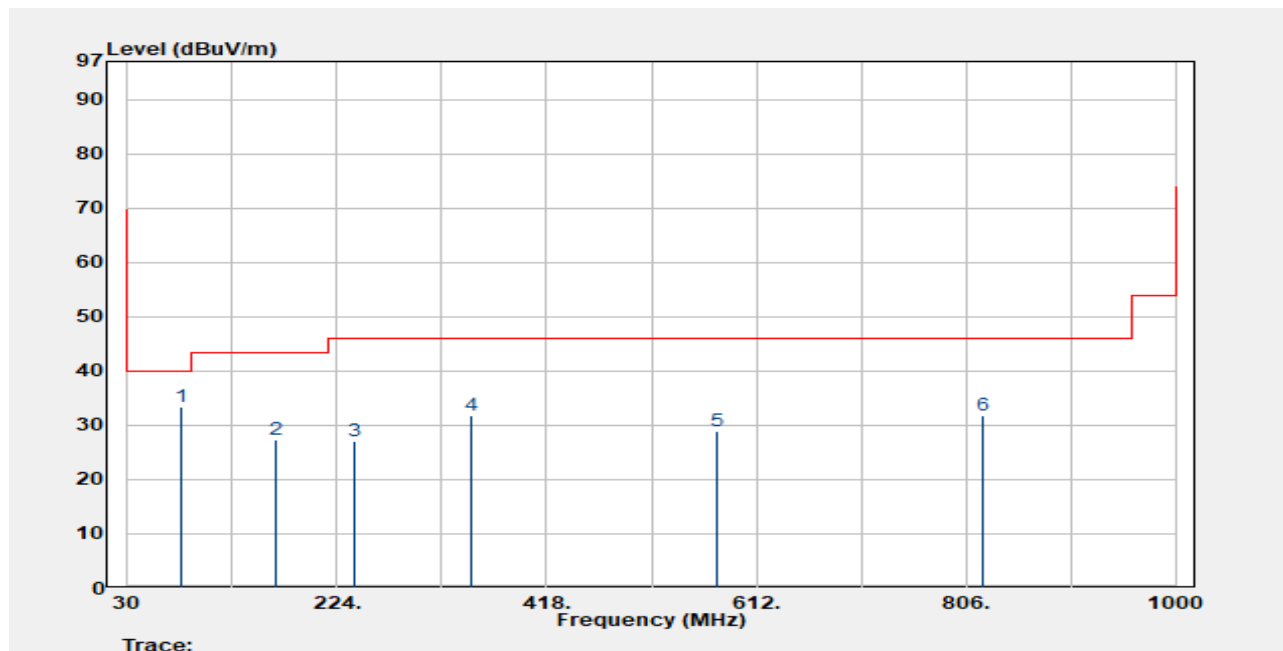
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
80.440	Peak	45.51	-12.15	33.35	40.00	-6.65
166.770	Peak	34.77	-7.53	27.24	43.50	-16.26
239.520	Peak	35.31	-8.26	27.05	46.00	-18.95
348.160	Peak	36.89	-4.97	31.92	46.00	-14.08
576.110	Peak	29.34	-0.42	28.92	46.00	-17.08
821.520	Peak	28.29	3.47	31.76	46.00	-14.24

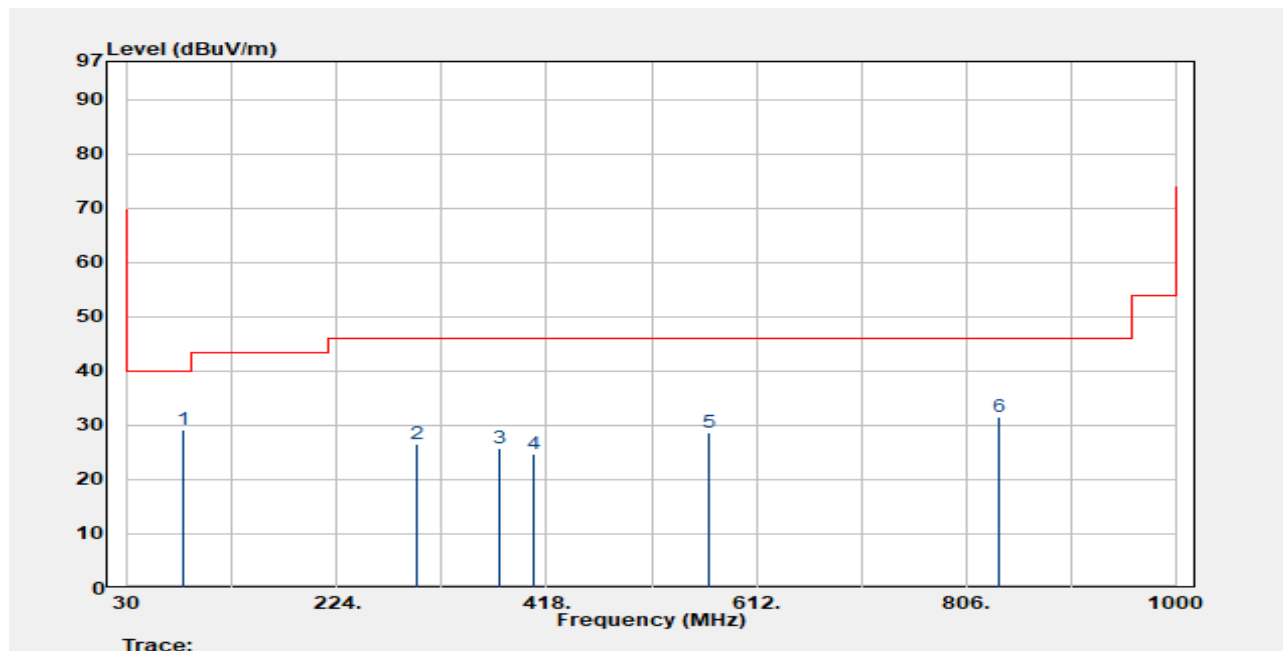
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
81.410	Peak	41.73	-12.42	29.31	40.00	-10.69
298.690	Peak	32.56	-6.00	26.56	46.00	-19.44
373.380	Peak	30.51	-4.68	25.84	46.00	-20.16
406.360	Peak	29.10	-4.38	24.72	46.00	-21.28
567.380	Peak	29.48	-0.86	28.62	46.00	-17.38
836.070	Peak	27.88	3.76	31.64	46.00	-14.36

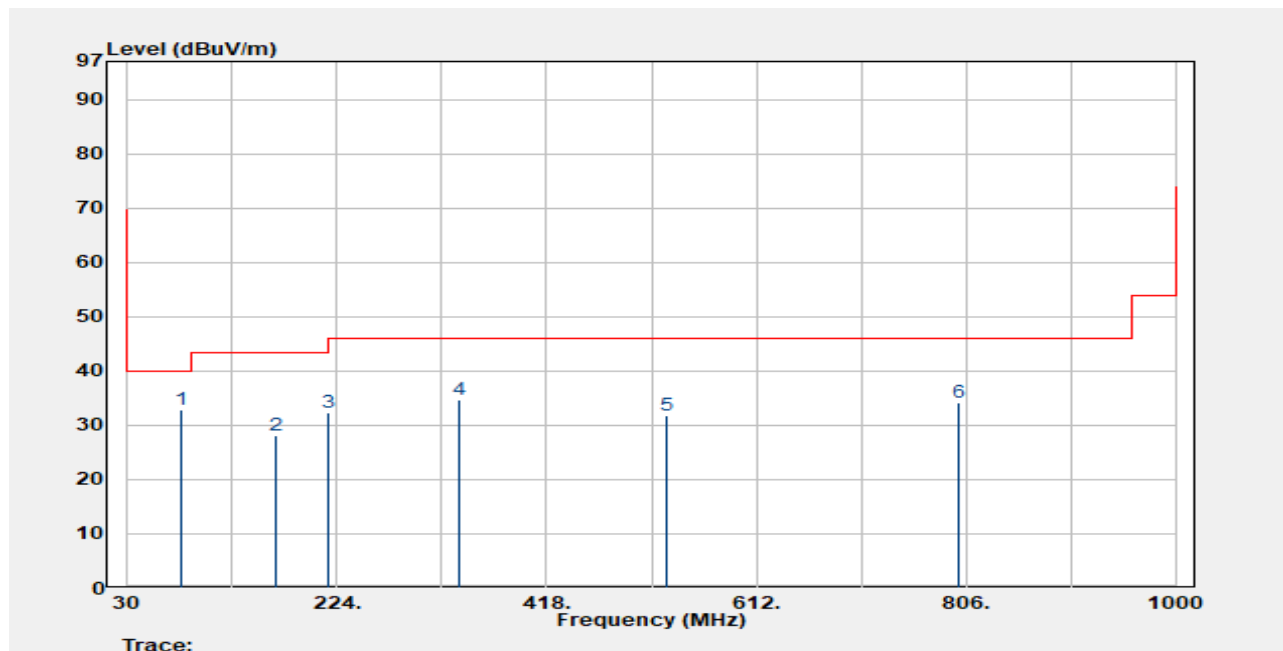
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
80.440	Peak	45.08	-12.15	32.93	40.00	-7.07
166.770	Peak	35.79	-7.53	28.26	43.50	-15.24
216.240	Peak	41.55	-9.29	32.26	46.00	-13.74
336.520	Peak	39.60	-5.00	34.60	46.00	-11.40
528.580	Peak	34.51	-2.67	31.84	46.00	-14.16
800.180	Peak	31.47	2.83	34.30	46.00	-11.70

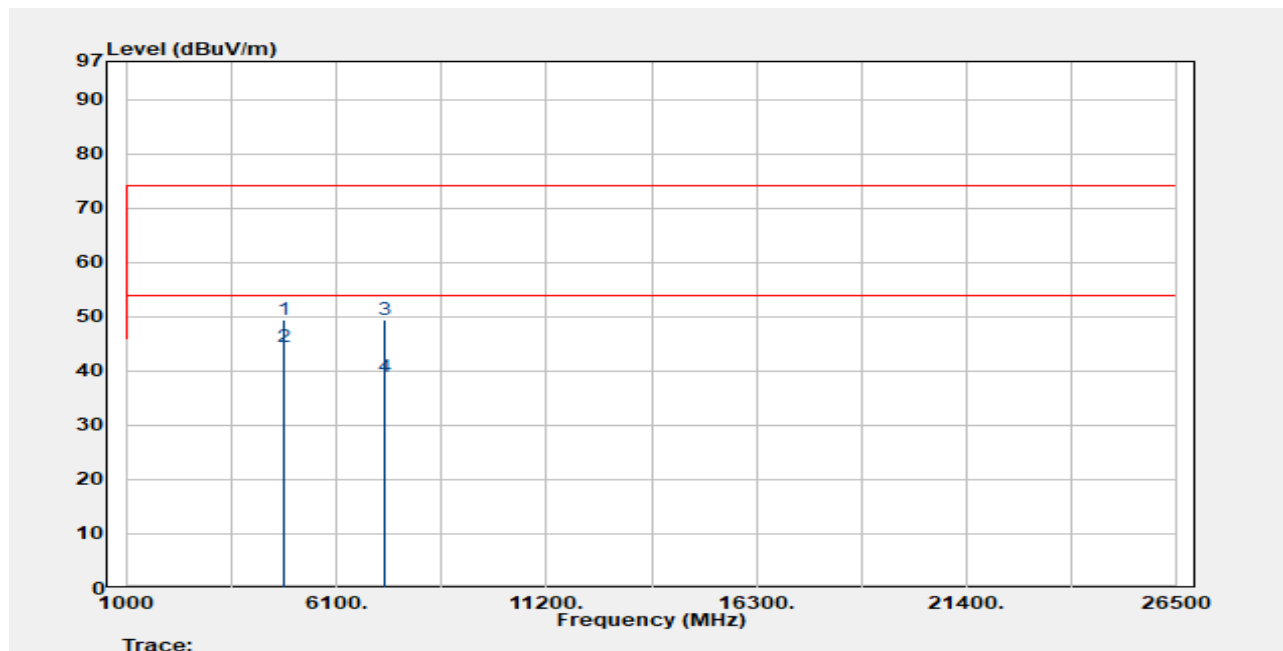
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	42.37	7.13	49.50	74.00	-24.50
4824.000	Average	37.35	7.13	44.48	54.00	-9.52
7236.000	Peak	35.04	14.33	49.37	74.00	-24.63
7236.000	Average	24.52	14.33	38.85	54.00	-15.15

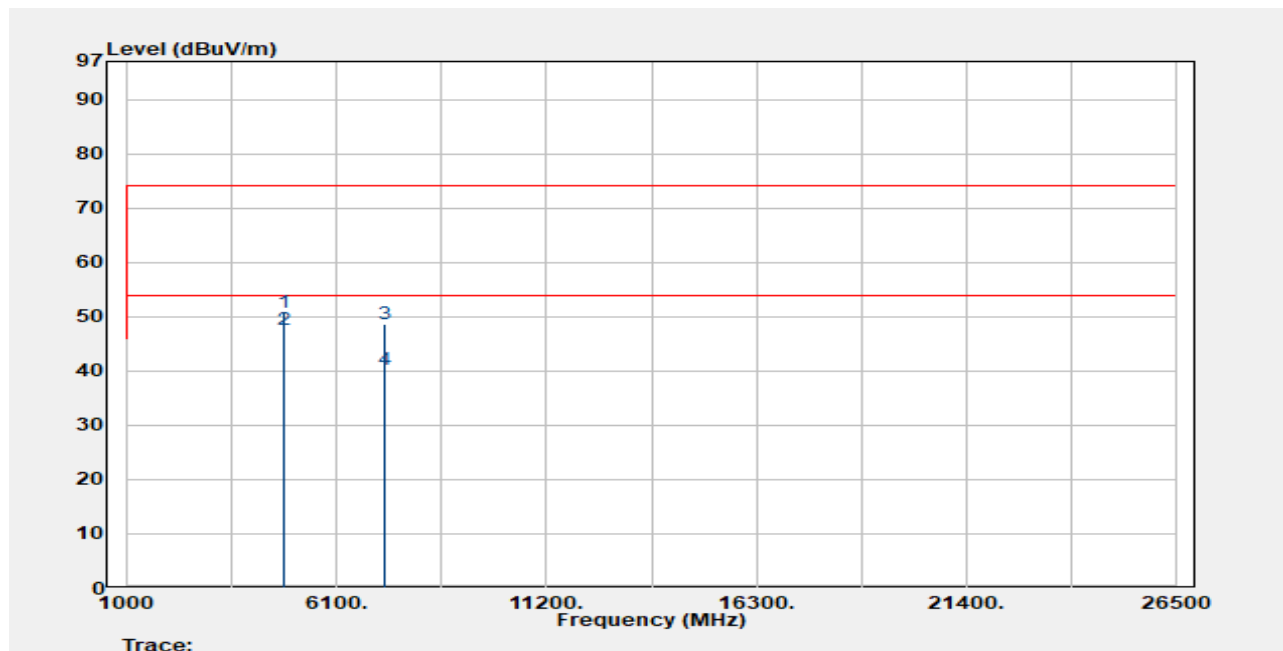
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	43.67	7.13	50.81	74.00	-23.19
4824.000	Average	40.34	7.13	47.47	54.00	-6.53
7236.000	Peak	34.35	14.33	48.68	74.00	-25.32
7236.000	Average	25.80	14.33	40.13	54.00	-13.87

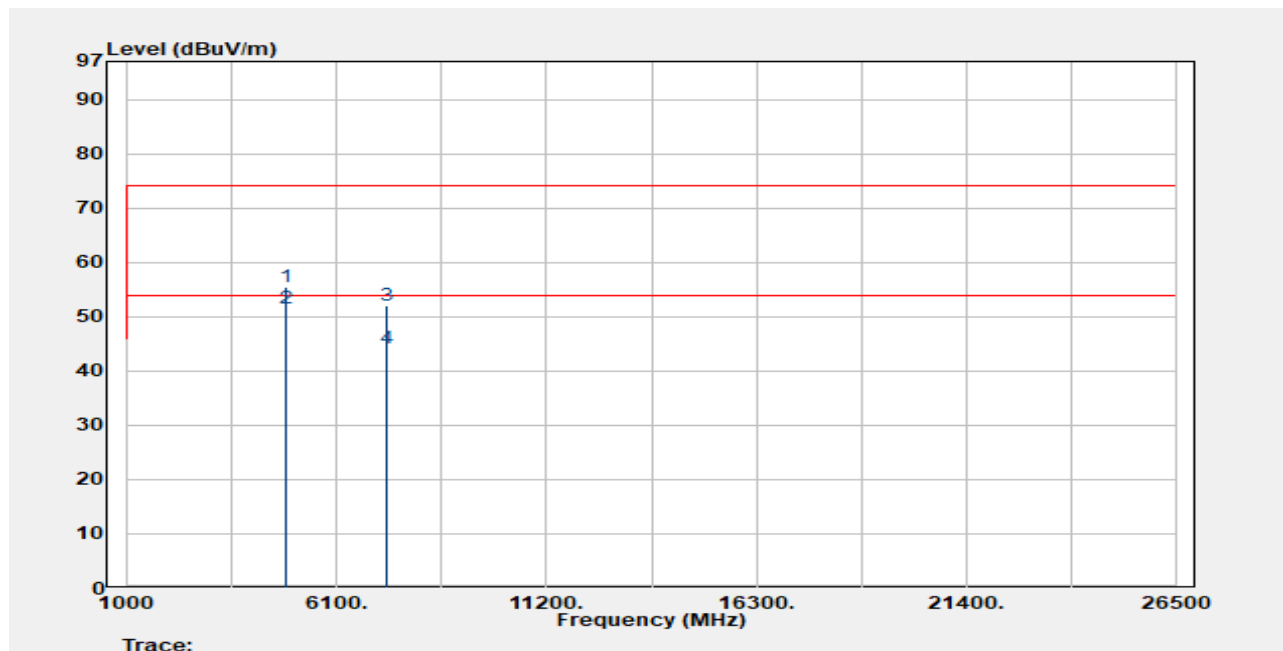
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	48.01	7.51	55.53	74.00	-18.47
4874.000	Average	44.02	7.51	51.53	54.00	-2.47
7311.000	Peak	36.55	15.41	51.96	74.00	-22.04
7311.000	Average	28.83	15.41	44.24	54.00	-9.76

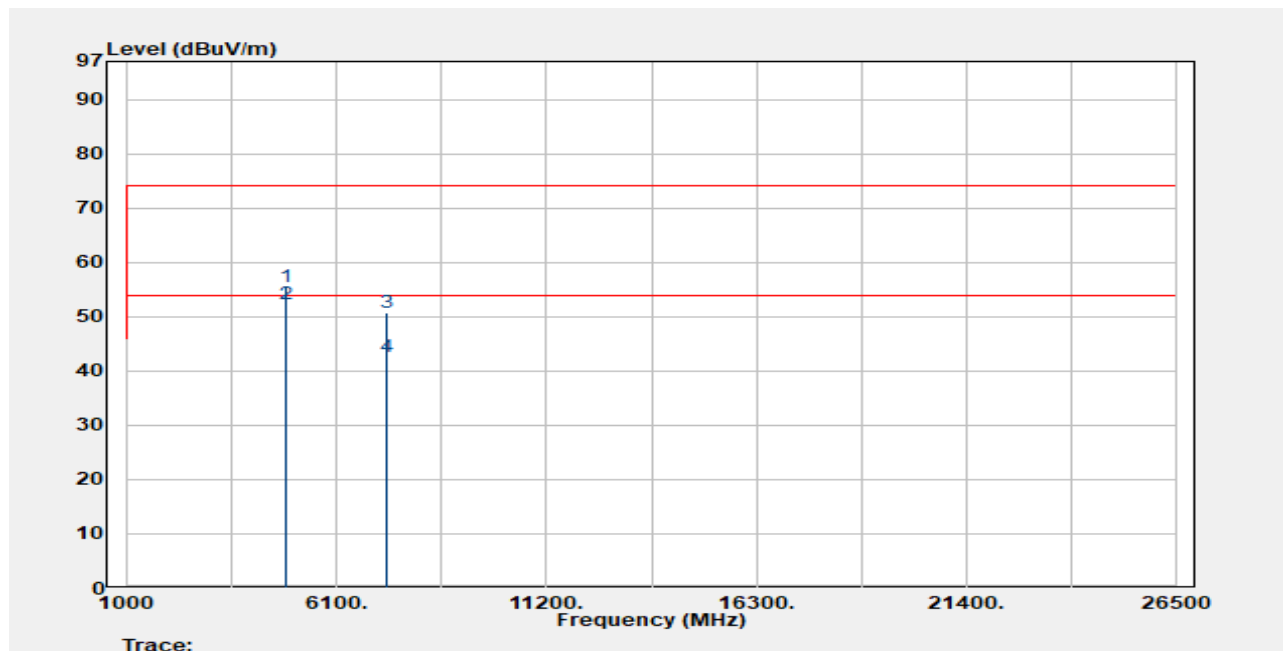
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	48.06	7.51	55.57	74.00	-18.43
4874.000	Average	44.85	7.51	52.36	54.00	-1.64
7311.000	Peak	35.34	15.41	50.75	74.00	-23.25
7311.000	Average	27.23	15.41	42.64	54.00	-11.36

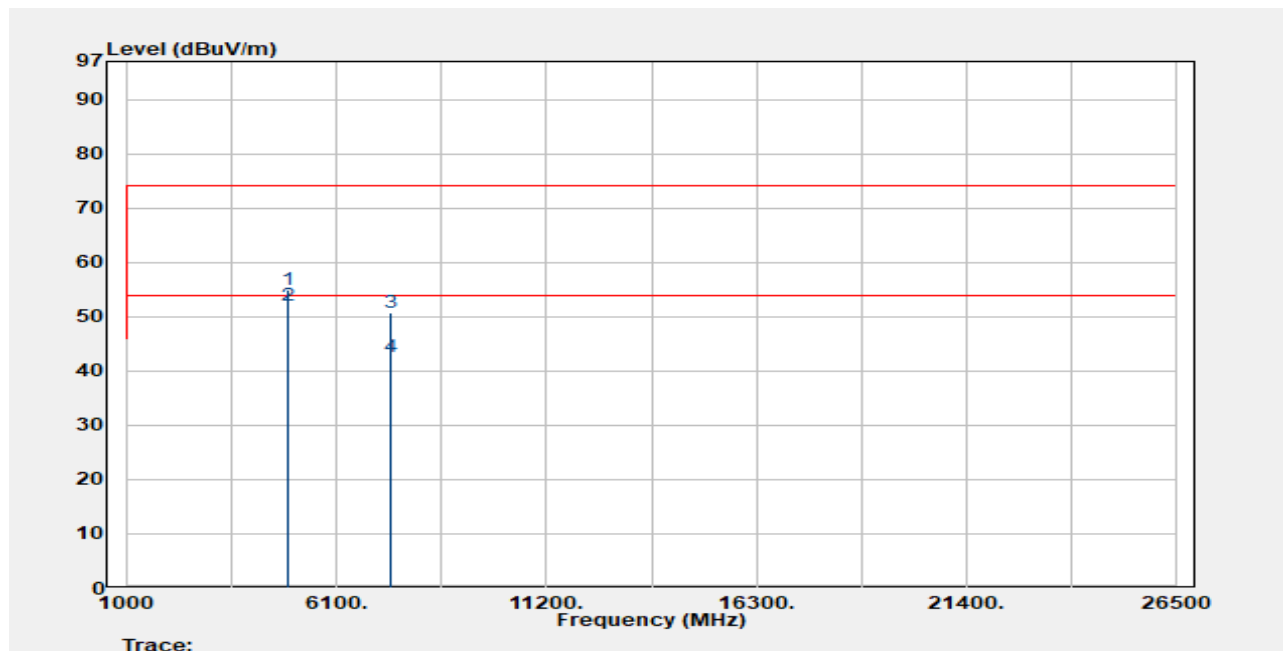
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	47.20	7.84	55.04	74.00	-18.96
4924.000	Average	44.30	7.84	52.14	54.00	-1.86
7386.000	Peak	36.09	14.75	50.84	74.00	-23.16
7386.000	Average	27.91	14.75	42.66	54.00	-11.34

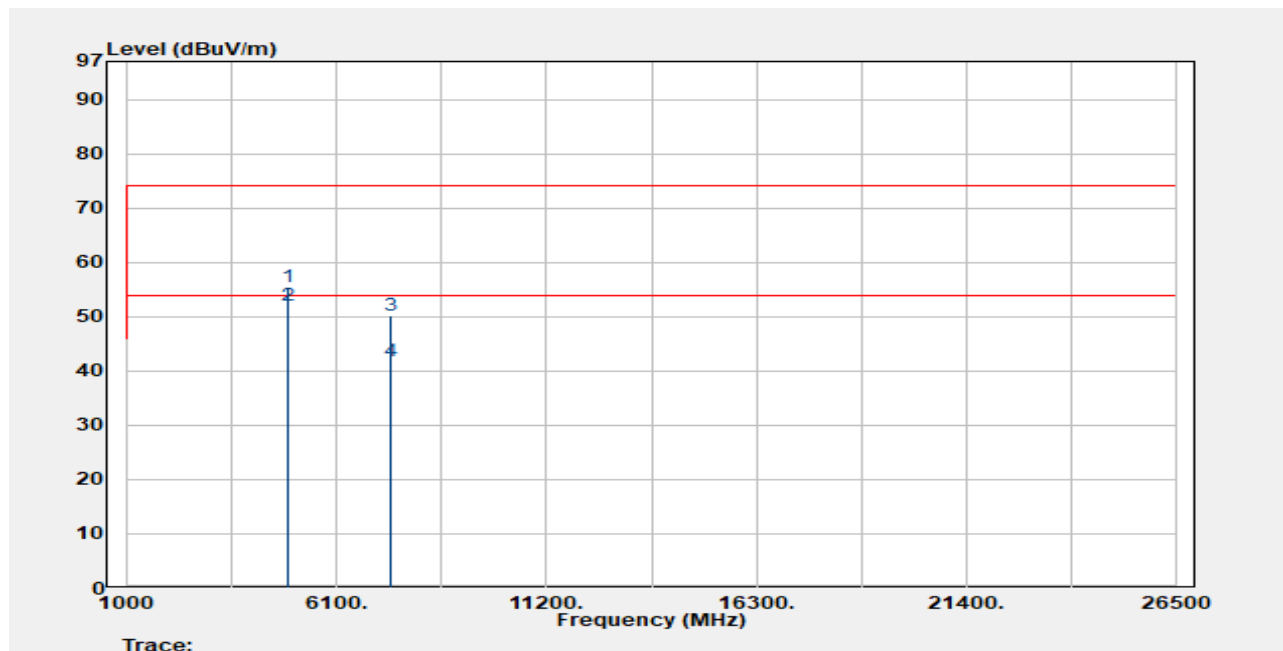
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Report Number :ER-2021-90005
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	47.57	7.84	55.41	74.00	-18.59
4924.000	Average	44.27	7.84	52.11	54.00	-1.89
7386.000	Peak	35.51	14.75	50.26	74.00	-23.74
7386.000	Average	26.99	14.75	41.74	54.00	-12.26

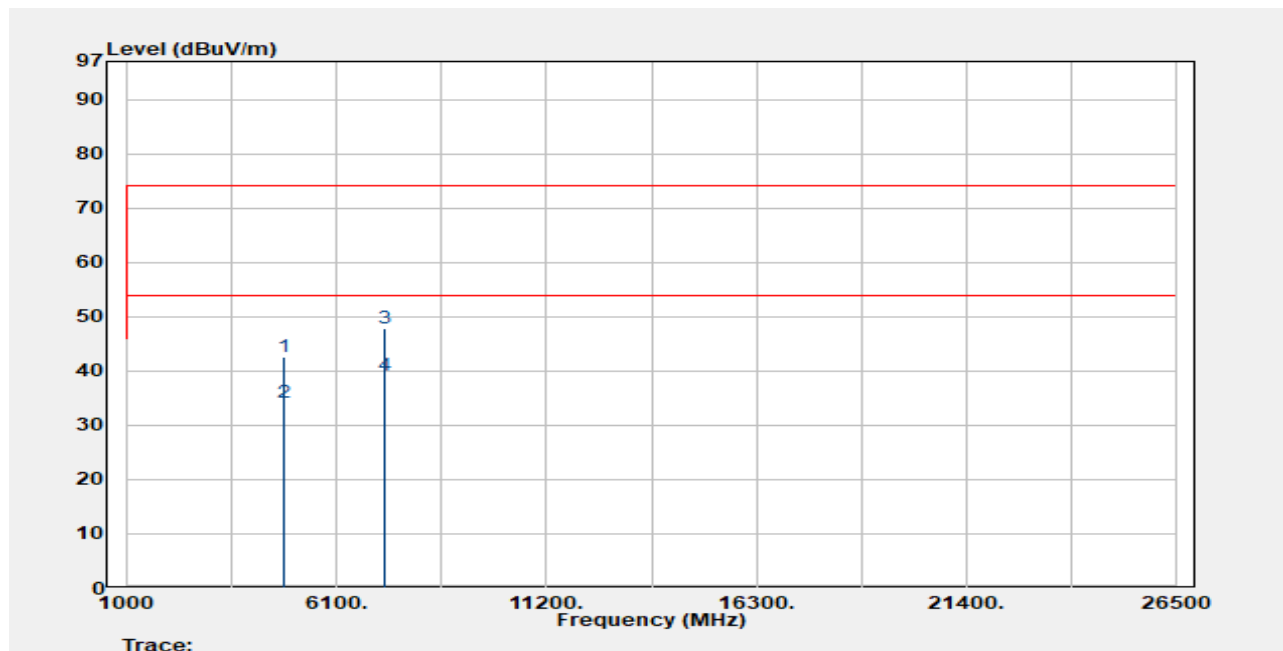
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	35.57	7.13	42.70	74.00	-31.30
4824.000	Average	26.98	7.13	34.11	54.00	-19.89
7236.000	Peak	33.63	14.33	47.96	74.00	-26.04
7236.000	Average	24.93	14.33	39.26	54.00	-14.74

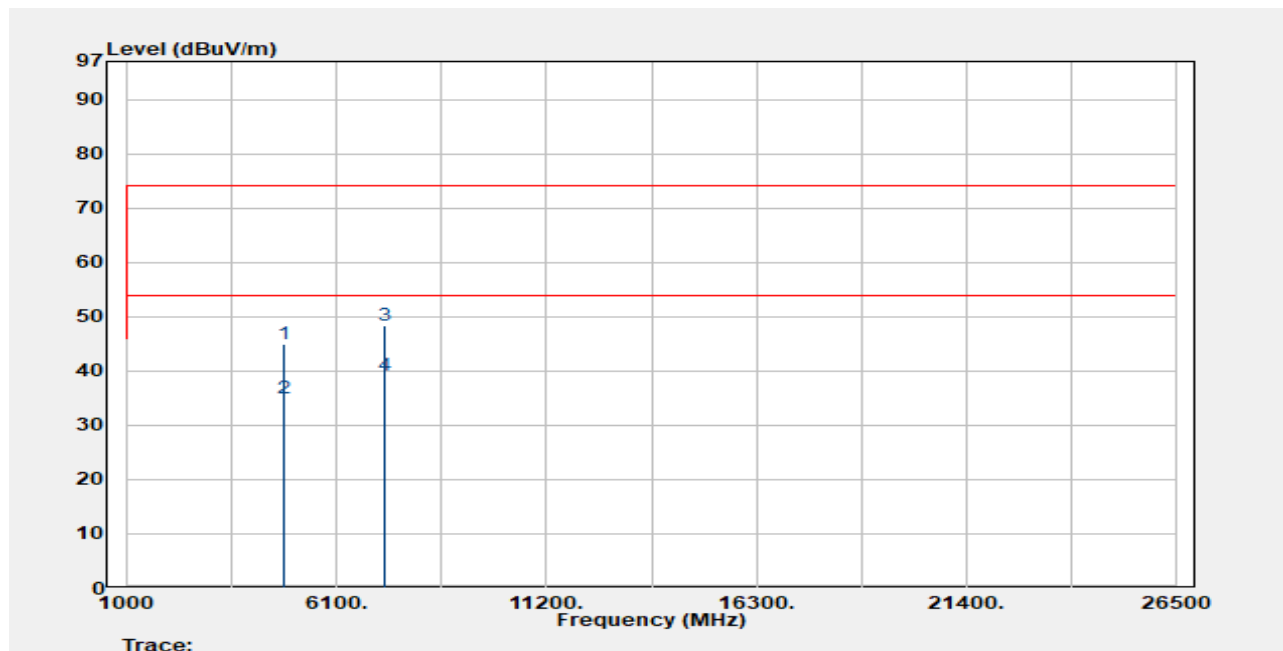
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	37.91	7.13	45.04	74.00	-28.96
4824.000	Average	27.70	7.13	34.83	54.00	-19.17
7236.000	Peak	34.16	14.33	48.49	74.00	-25.51
7236.000	Average	24.77	14.33	39.10	54.00	-14.90

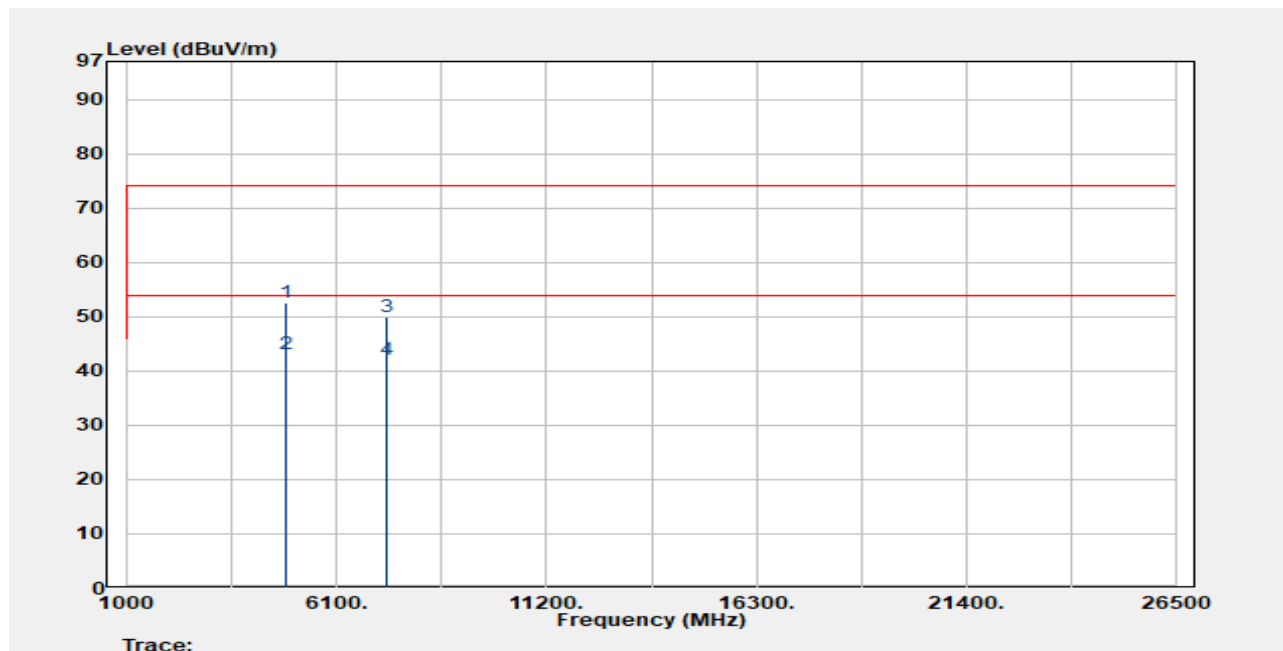
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	45.19	7.51	52.70	74.00	-21.30
4874.000	Average	35.66	7.51	43.17	54.00	-10.83
7311.000	Peak	34.56	15.41	49.97	74.00	-24.03
7311.000	Average	26.73	15.41	42.14	54.00	-11.86

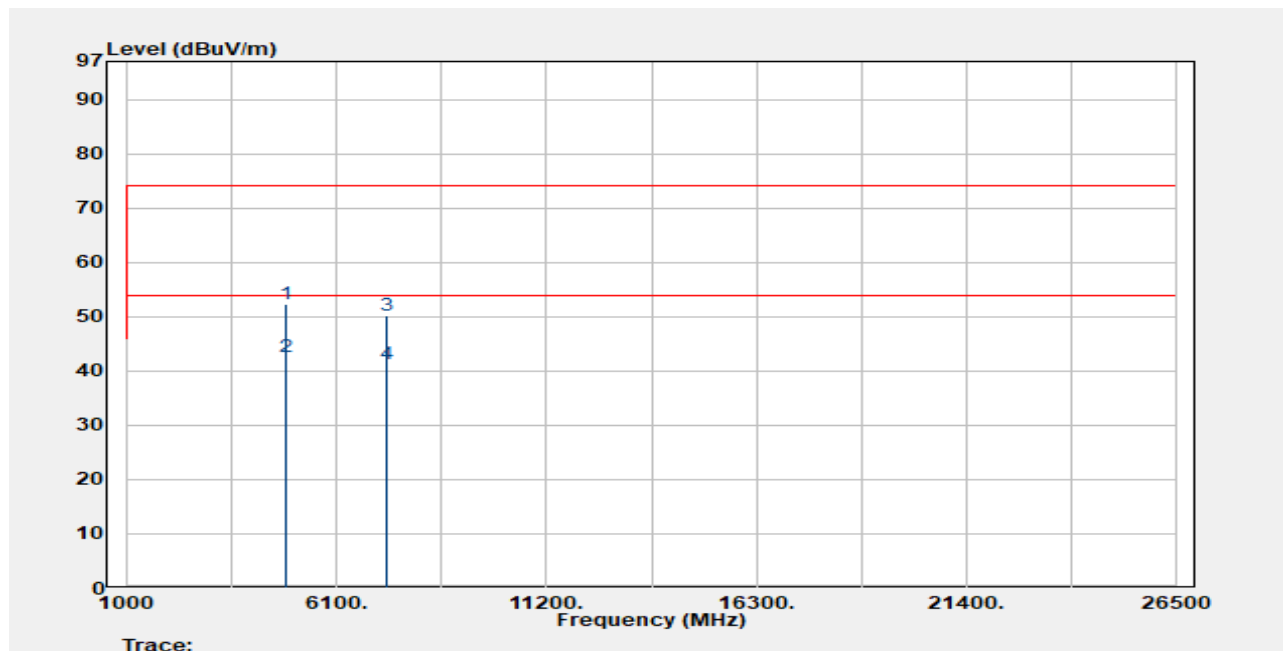
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	44.78	7.51	52.29	74.00	-21.71
4874.000	Average	35.02	7.51	42.53	54.00	-11.47
7311.000	Peak	34.71	15.41	50.12	74.00	-23.88
7311.000	Average	25.82	15.41	41.23	54.00	-12.77

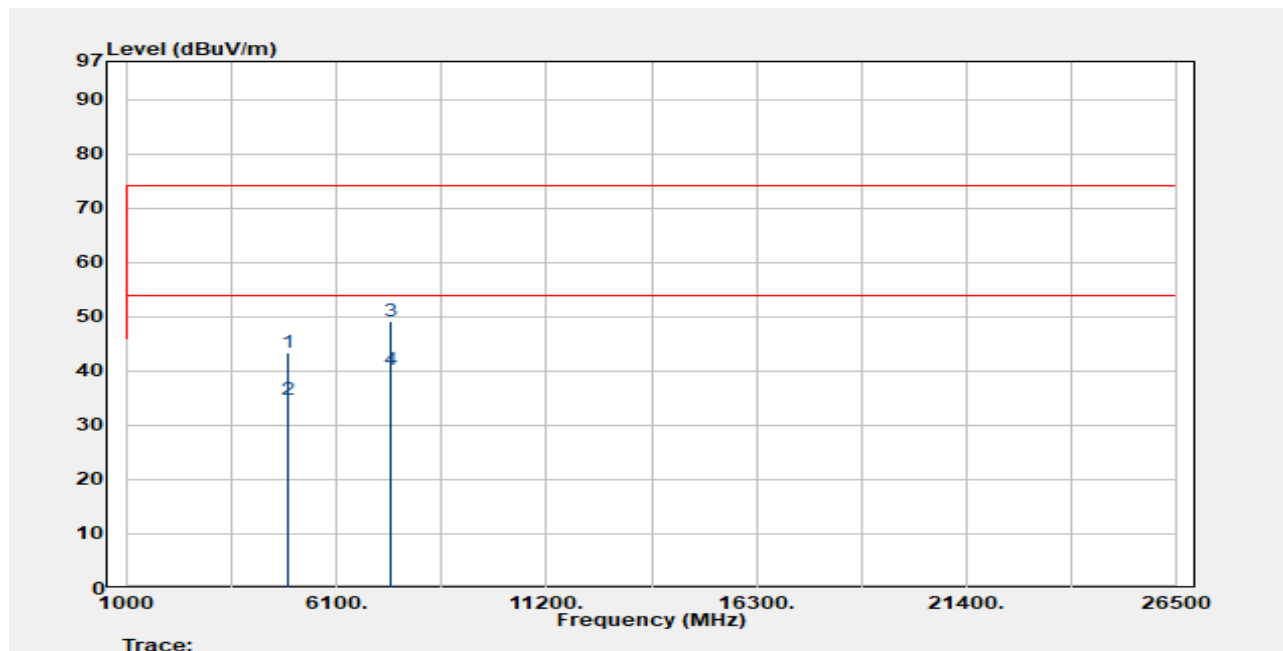
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Report Number :ER-2021-90005
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-25
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	35.65	7.84	43.49	74.00	-30.51
4924.000	Average	26.73	7.84	34.57	54.00	-19.43
7386.000	Peak	34.53	14.75	49.29	74.00	-24.71
7386.000	Average	25.40	14.75	40.15	54.00	-13.85

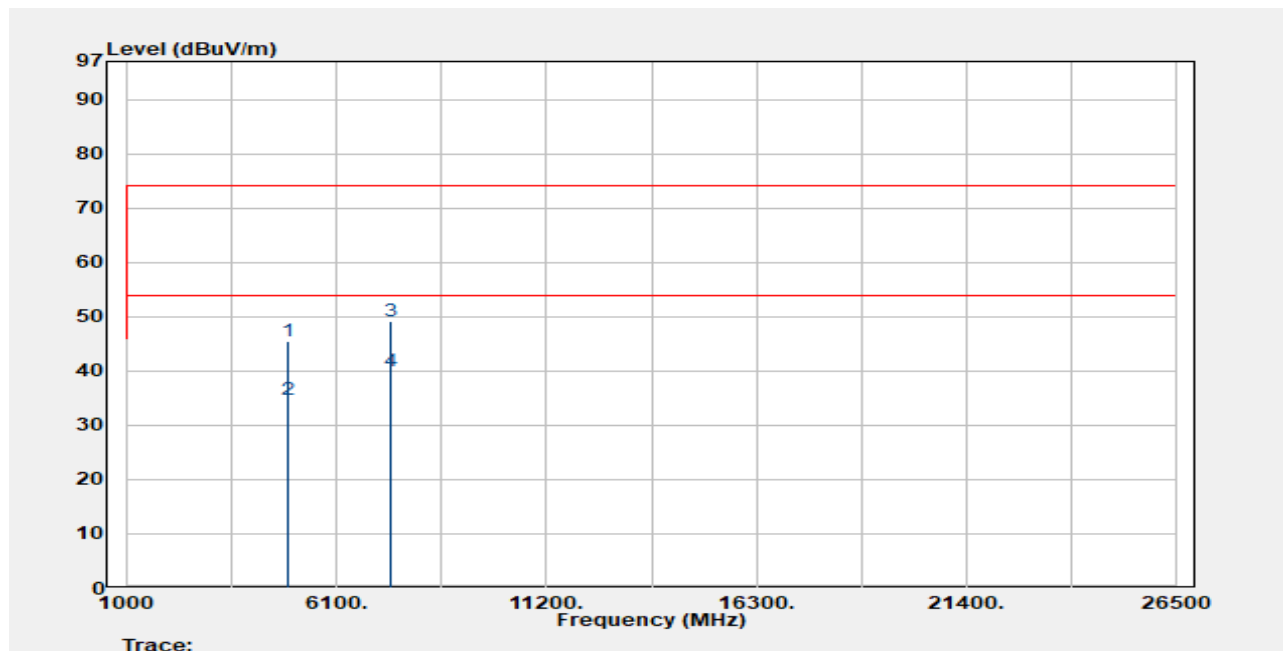
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Report Number :ER-2021-90005
Operation Mode :802.11g
Test Frequency :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Site :SAC 3
Test Date :2021-10-20
Temp./Humi. :25.6/65
Antenna Pol. :Horizontal
Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	37.76	7.84	45.60	74.00	-28.40
4924.000	Average	26.90	7.84	34.74	54.00	-19.26
7386.000	Peak	34.37	14.75	49.12	74.00	-24.88
7386.000	Average	25.28	14.75	40.03	54.00	-13.97

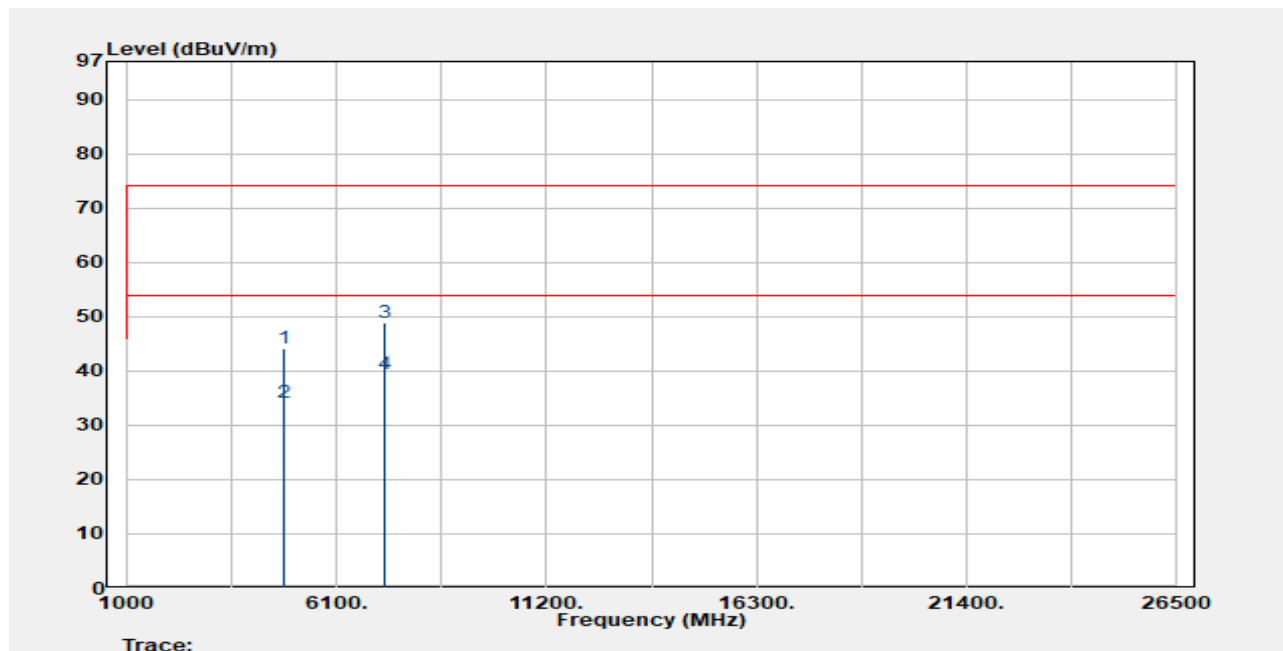
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	37.15	7.13	44.28	74.00	-29.72
4824.000	Average	27.17	7.13	34.30	54.00	-19.70
7236.000	Peak	34.47	14.33	48.80	74.00	-25.20
7236.000	Average	24.97	14.33	39.30	54.00	-14.70

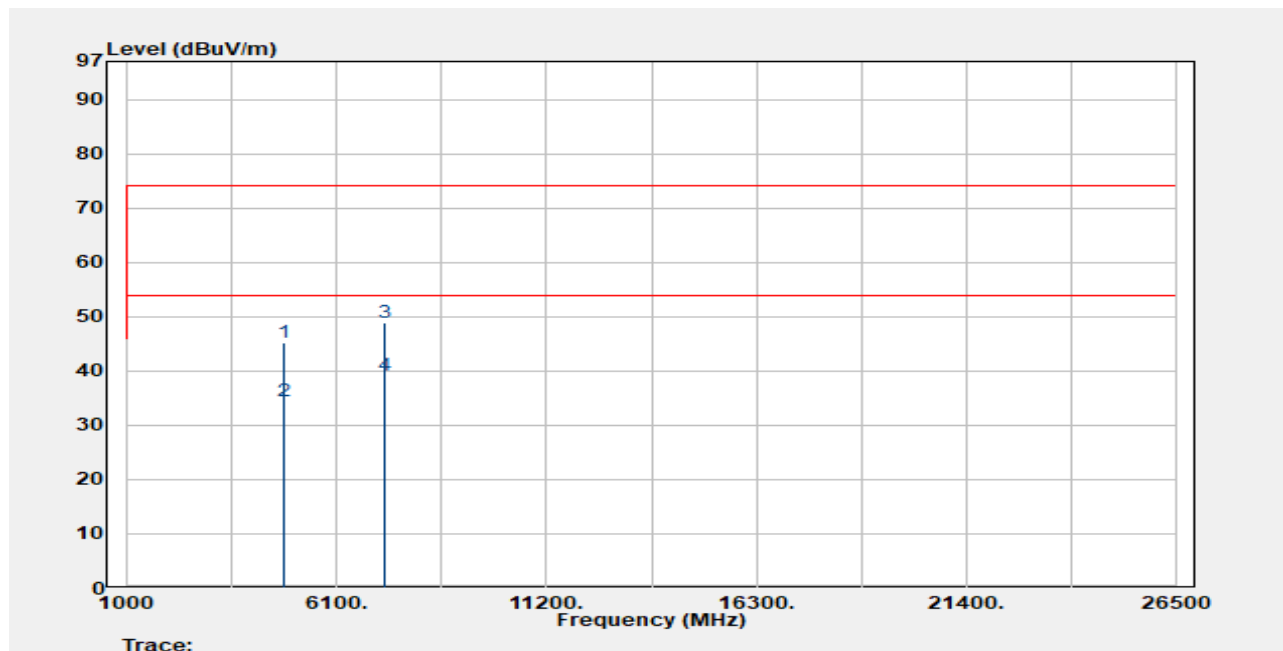
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Peak	38.16	7.13	45.29	74.00	-28.71
4824.000	Average	27.25	7.13	34.38	54.00	-19.62
7236.000	Peak	34.68	14.33	49.01	74.00	-24.99
7236.000	Average	24.85	14.33	39.18	54.00	-14.82

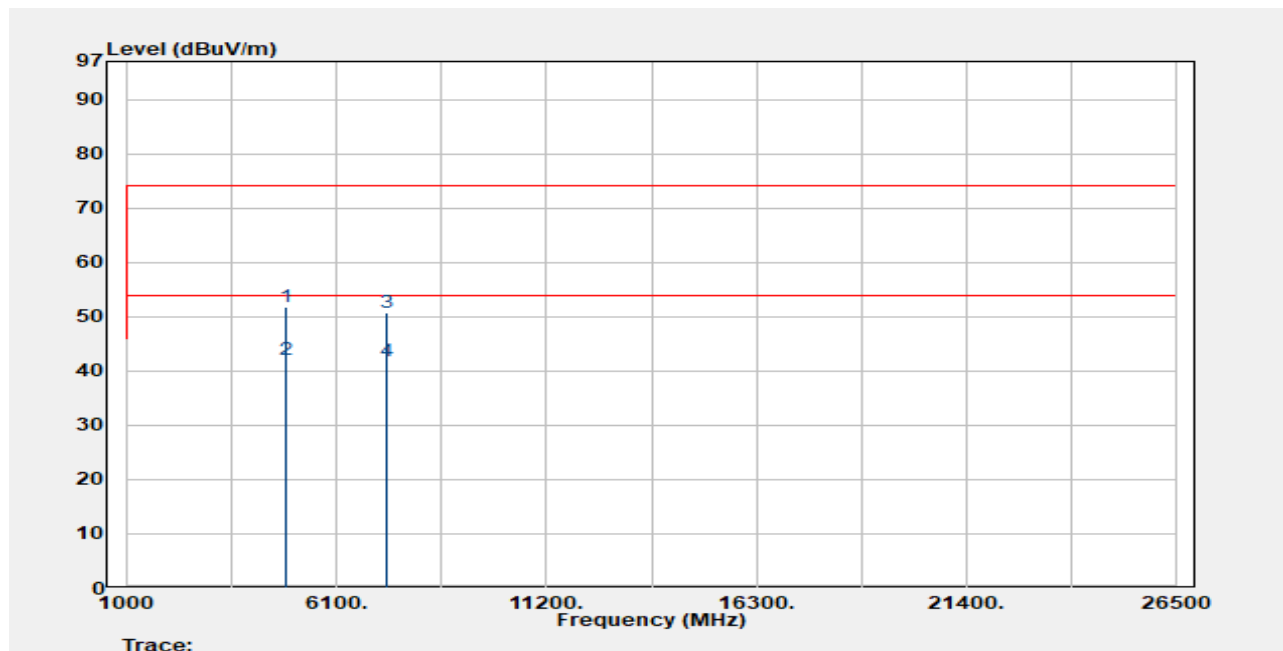
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Peak	44.36	7.51	51.87	74.00	-22.13
4874.000	Average	34.44	7.51	41.95	54.00	-12.05
7311.000	Peak	35.31	15.41	50.71	74.00	-23.29
7311.000	Average	26.27	15.41	41.68	54.00	-12.32

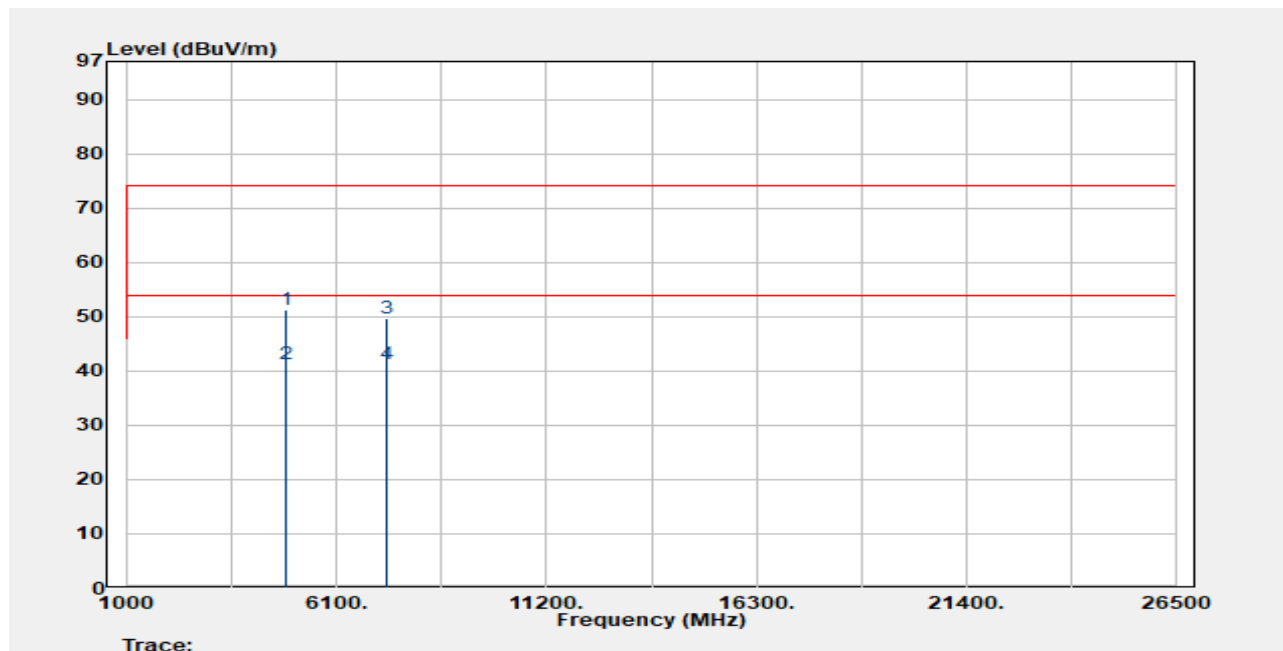
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	43.86	7.51	51.37	74.00	-22.63
4874.000	Average	33.75	7.51	41.26	54.00	-12.74
7311.000	Peak	34.35	15.41	49.76	74.00	-24.24
7311.000	Average	25.93	15.41	41.34	54.00	-12.66

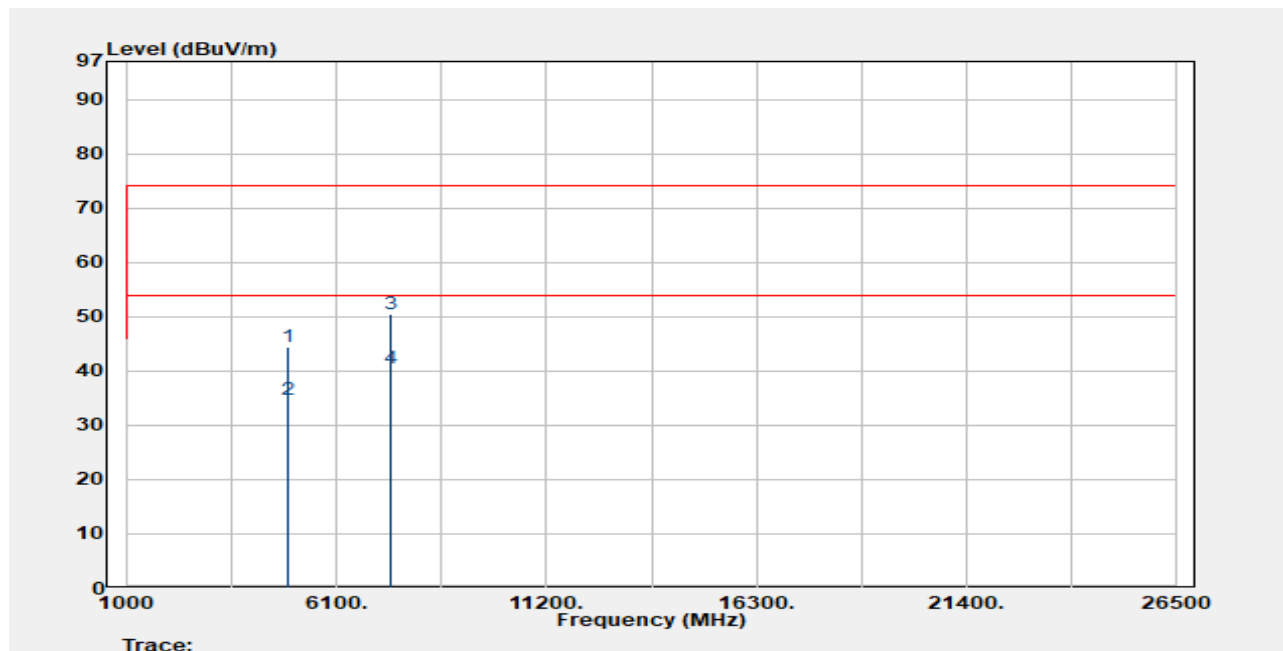
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	36.53	7.84	44.37	74.00	-29.63
4924.000	Average	26.92	7.84	34.76	54.00	-19.24
7386.000	Peak	35.68	14.75	50.43	74.00	-23.57
7386.000	Average	25.71	14.75	40.46	54.00	-13.54

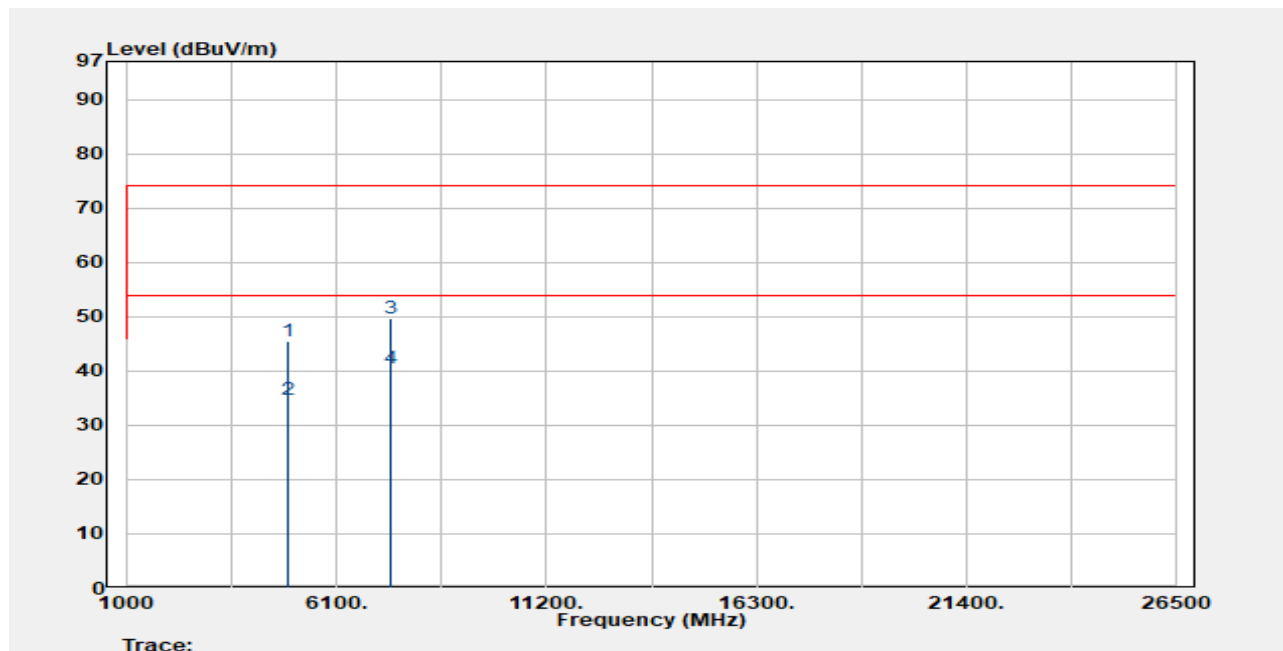
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Report Number :ER-2021-90005
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Peak	37.75	7.84	45.59	74.00	-28.41
4924.000	Average	26.82	7.84	34.66	54.00	-19.34
7386.000	Peak	34.81	14.75	49.57	74.00	-24.43
7386.000	Average	25.63	14.75	40.38	54.00	-13.62

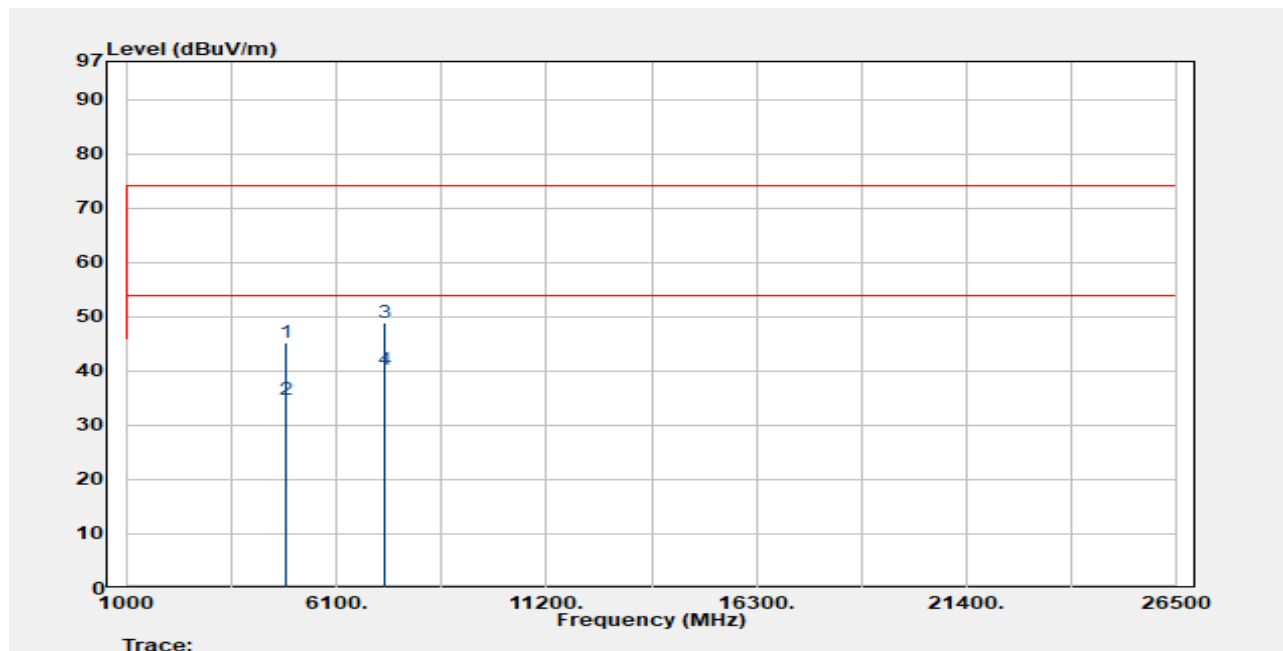
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Peak	38.09	7.12	45.21	74.00	-28.79
4844.000	Average	27.47	7.12	34.59	54.00	-19.41
7266.000	Peak	34.27	14.63	48.90	74.00	-25.10
7266.000	Average	25.49	14.63	40.12	54.00	-13.88

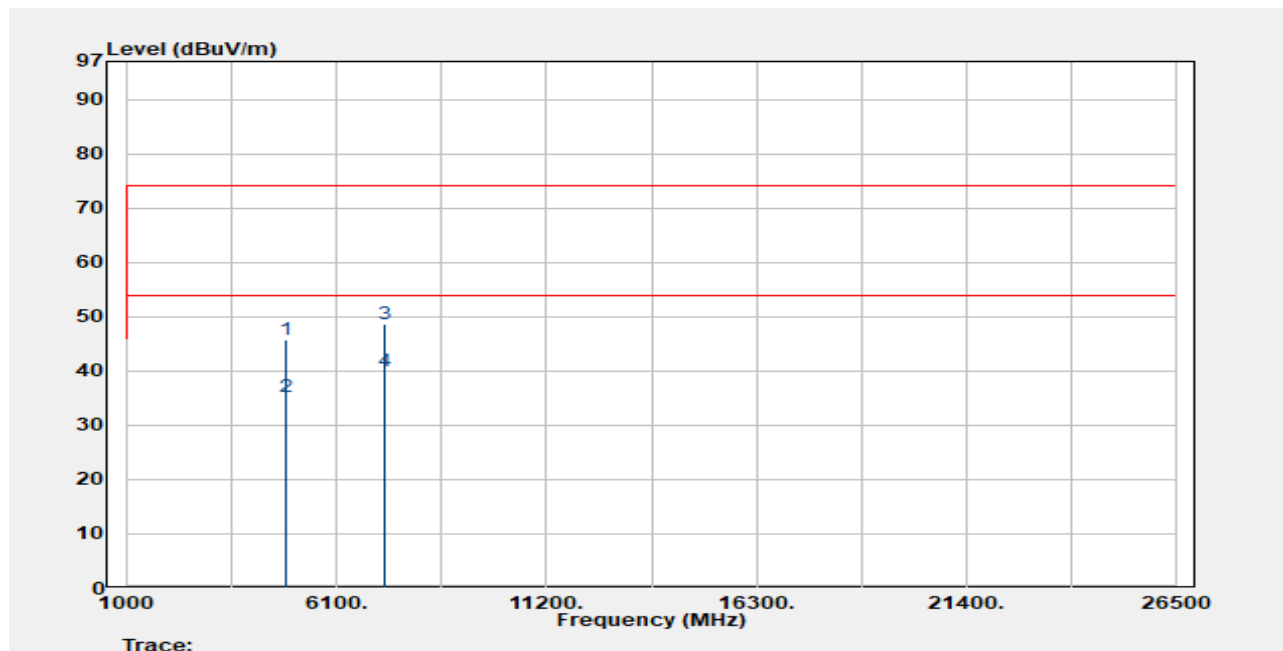
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Peak	38.66	7.12	45.78	74.00	-28.22
4844.000	Average	28.03	7.12	35.15	54.00	-18.85
7266.000	Peak	34.07	14.63	48.70	74.00	-25.30
7266.000	Average	25.26	14.63	39.89	54.00	-14.11

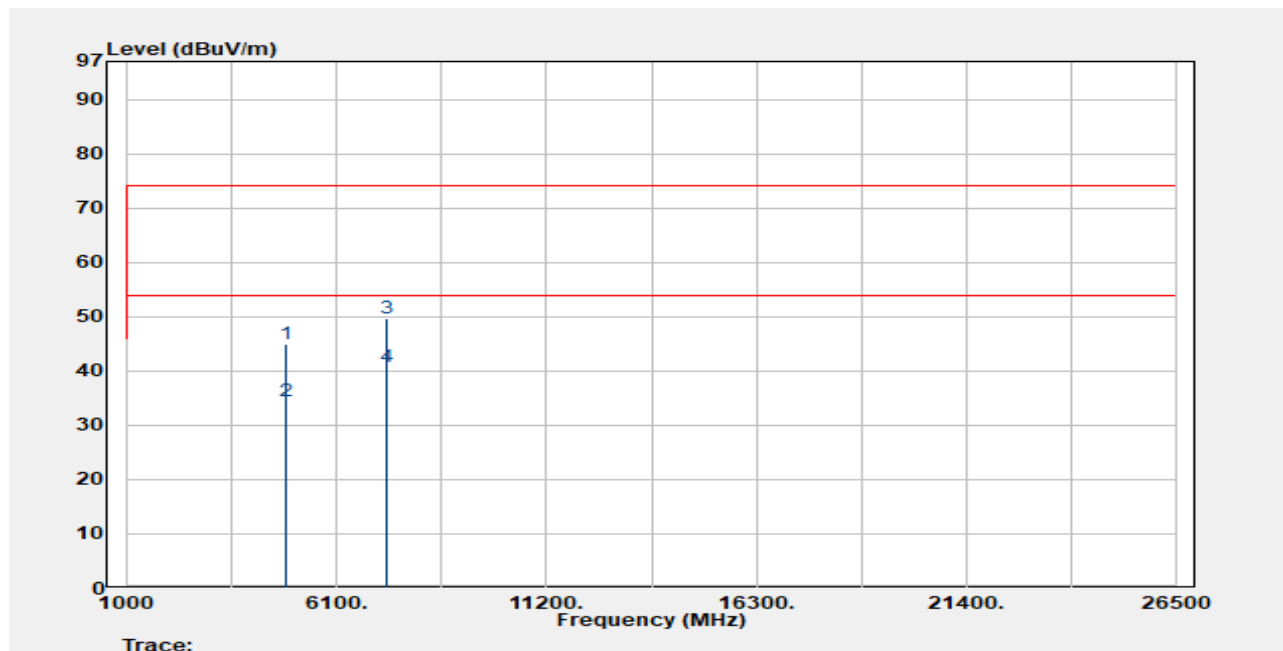
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	37.39	7.51	44.90	74.00	-29.10
4874.000	Average	27.00	7.51	34.51	54.00	-19.49
7311.000	Peak	34.34	15.41	49.75	74.00	-24.25
7311.000	Average	25.32	15.41	40.73	54.00	-13.27

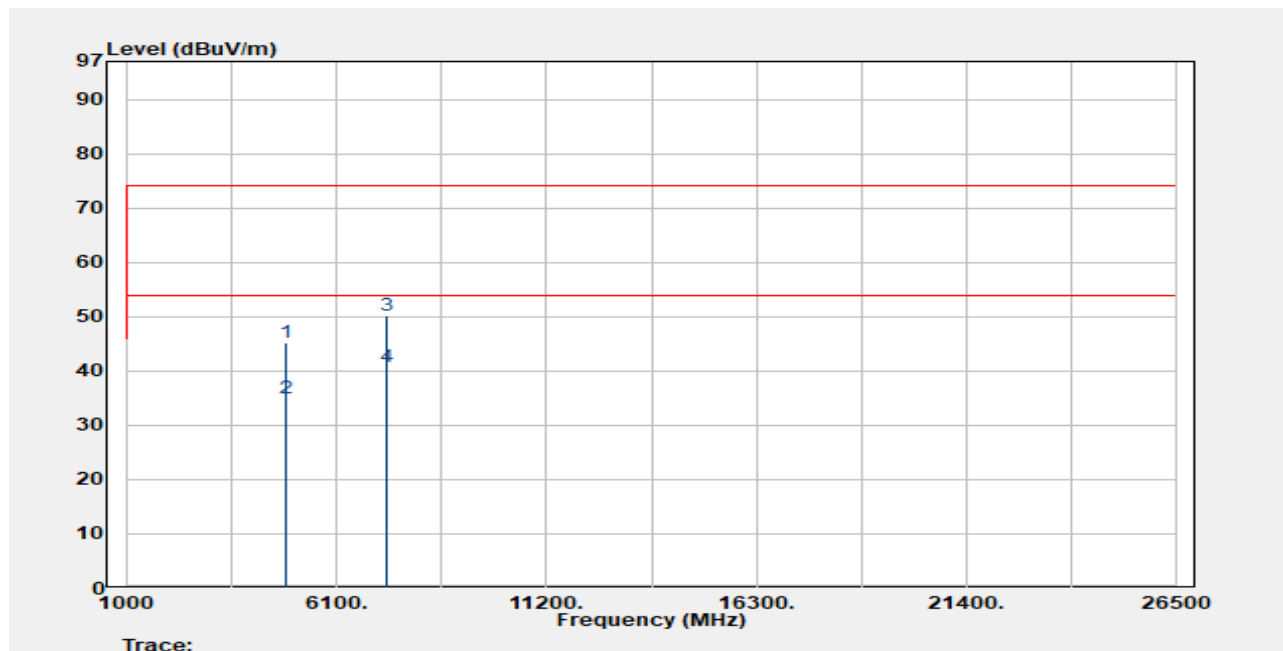
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Peak	37.63	7.51	45.14	74.00	-28.86
4874.000	Average	27.33	7.51	34.84	54.00	-19.16
7311.000	Peak	34.74	15.41	50.15	74.00	-23.85
7311.000	Average	25.22	15.41	40.63	54.00	-13.37

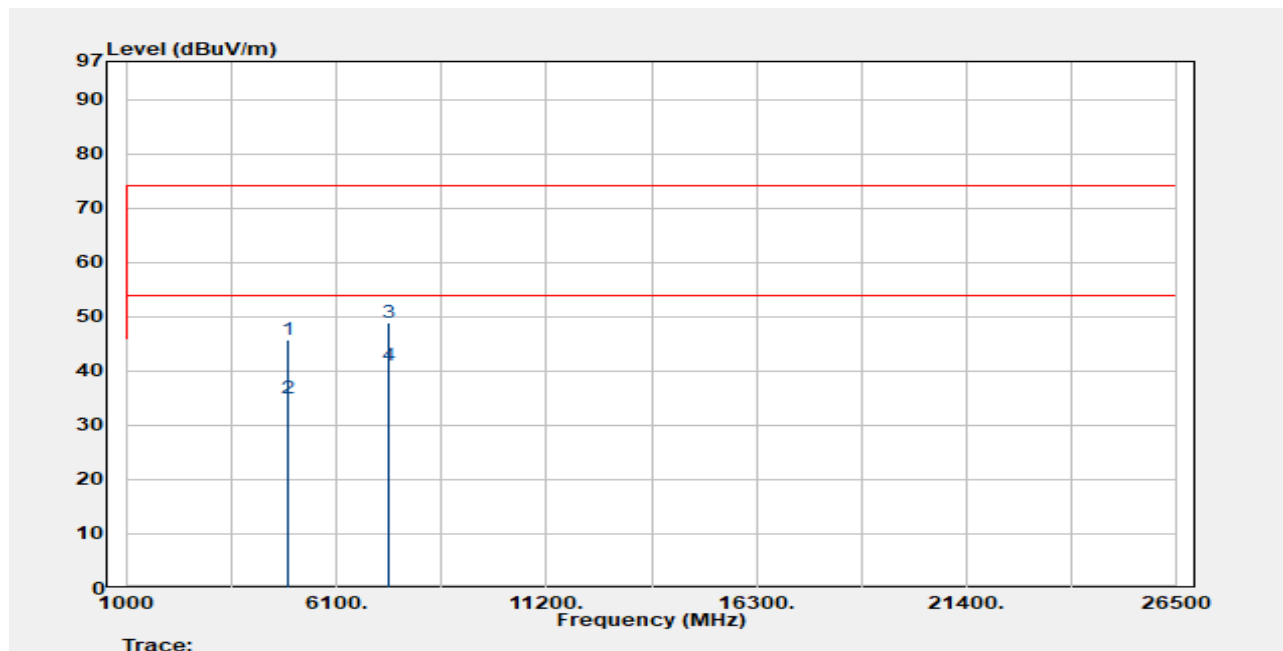
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Vertical
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Peak	37.78	7.92	45.70	74.00	-28.30
4904.000	Average	26.98	7.92	34.90	54.00	-19.10
7356.000	Peak	34.02	14.93	48.96	74.00	-25.04
7356.000	Average	26.08	14.93	41.01	54.00	-12.99

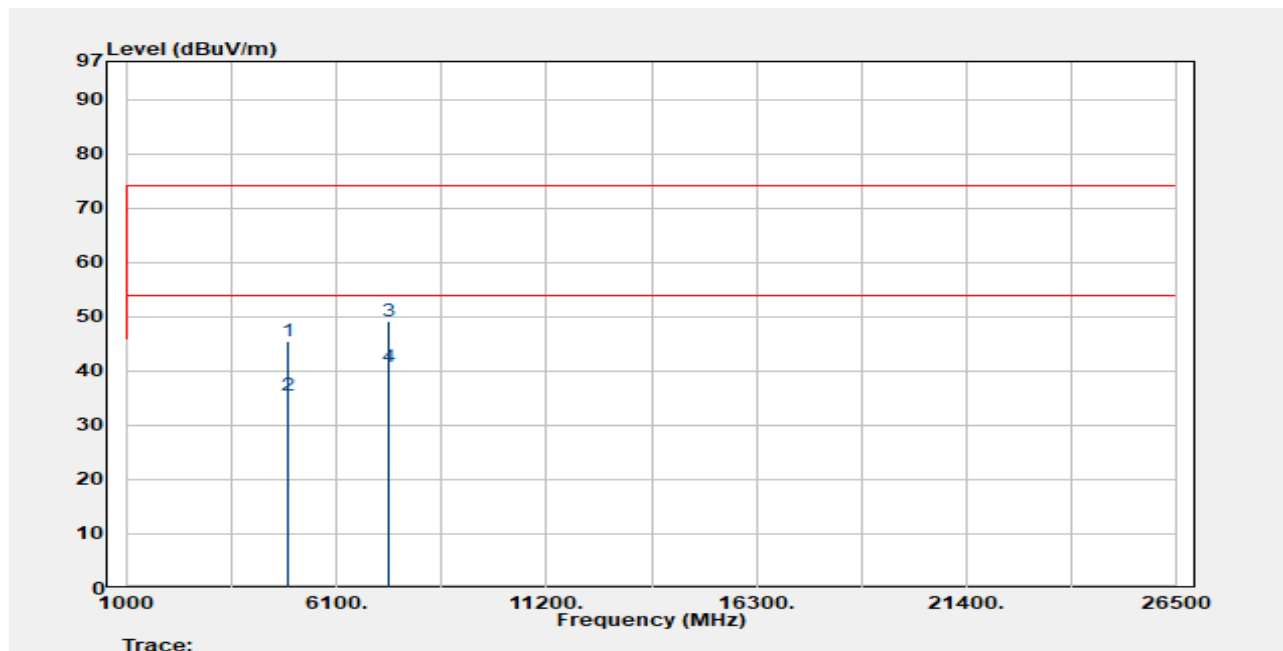
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Report Number :ER-2021-90005
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :E2 Plane

Test Site :SAC 3
 Test Date :2021-10-20
 Temp./Humi. :25.6/65
 Antenna Pol. :Horizontal
 Engineer :Jack Liu



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Peak	37.67	7.92	45.59	74.00	-28.41
4904.000	Average	27.55	7.92	35.47	54.00	-18.53
7356.000	Peak	34.14	14.93	49.07	74.00	-24.93
7356.000	Average	25.83	14.93	40.76	54.00	-13.24

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

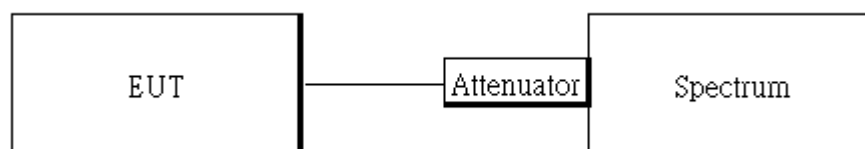
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/27/2021	04/26/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.
Cable Loss Offset: 10.93

Note:

For the test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

12.5 As per FCC KDB 662911 D01

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

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G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi and has been taken into account in the test result.

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12.6 Power spectral density

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-5.64	-4.63	-2.10	7.37	PASS
2437	-2.61	-2.55	0.43	7.37	PASS
2462	-3.63	-4.56	-1.06	7.37	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.57	-13.01	-10.71	7.37	PASS
2437	-4.84	-4.3	-1.55	7.37	PASS
2462	-15.61	-14.93	-12.25	7.37	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-14.5	-14.86	-11.67	7.37	PASS
2437	-5.59	-5.54	-2.55	7.37	PASS
2462	-16.77	-17.14	-13.94	7.37	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-22.66	-22.18	-19.40	7.37	PASS
2437	-20.18	-22.06	-18.01	7.37	PASS
2452	-21.98	-23.66	-19.73	7.37	PASS

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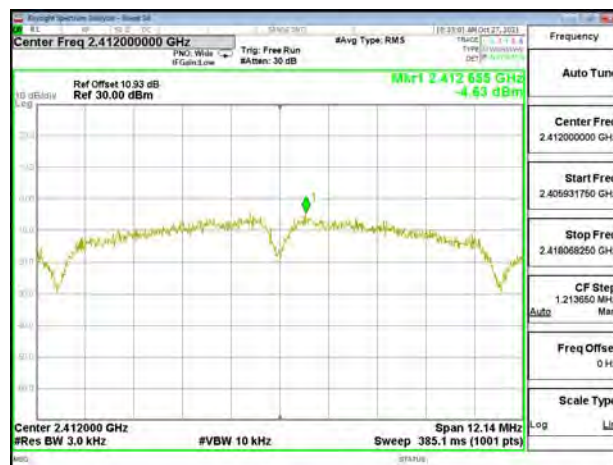
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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

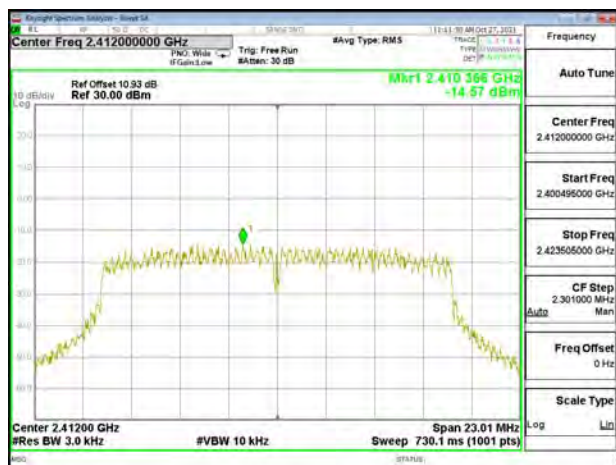


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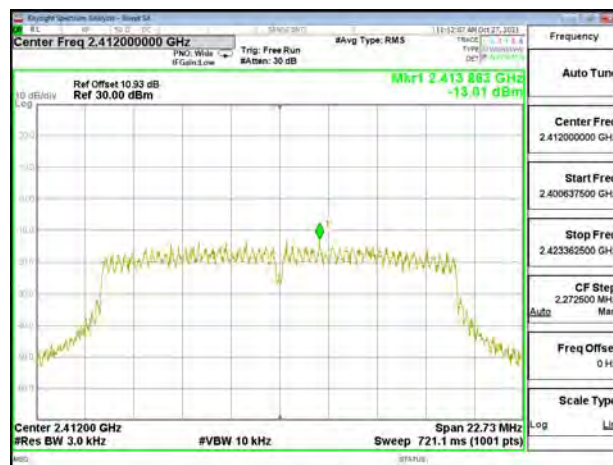
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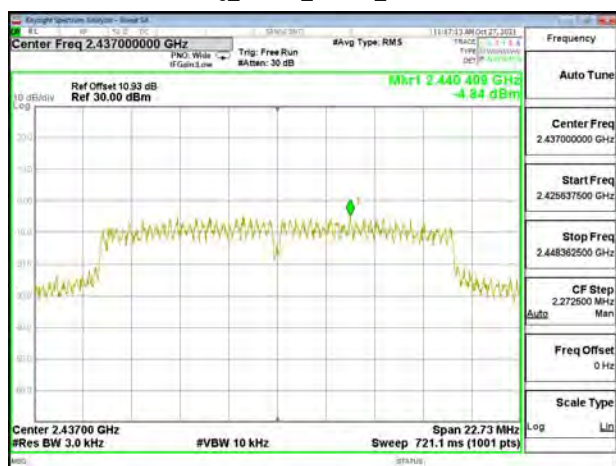
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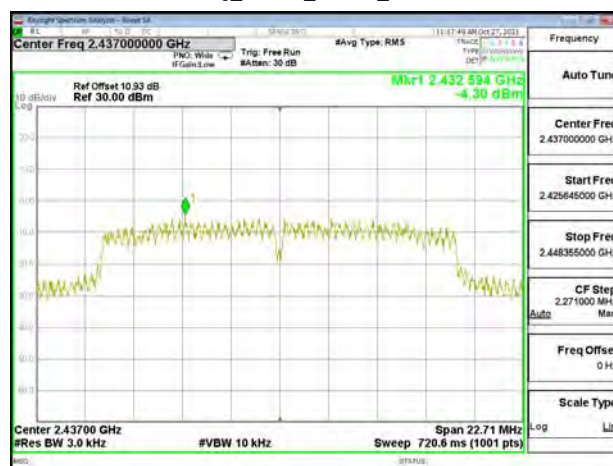
802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

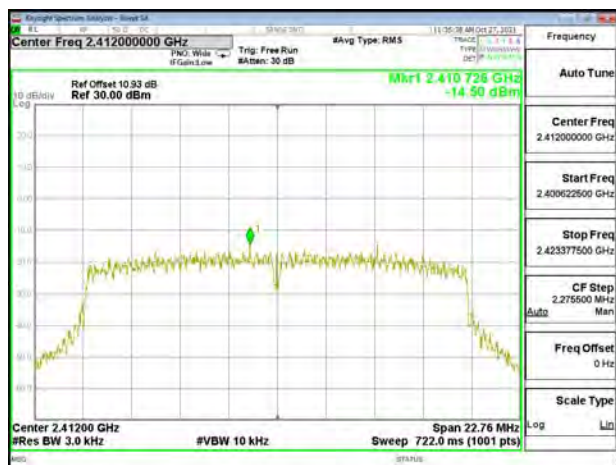


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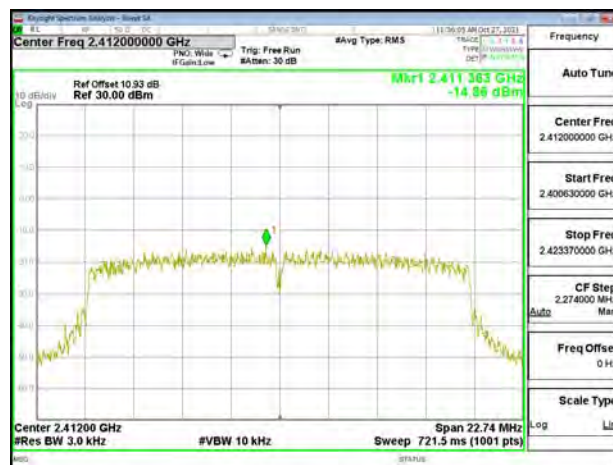
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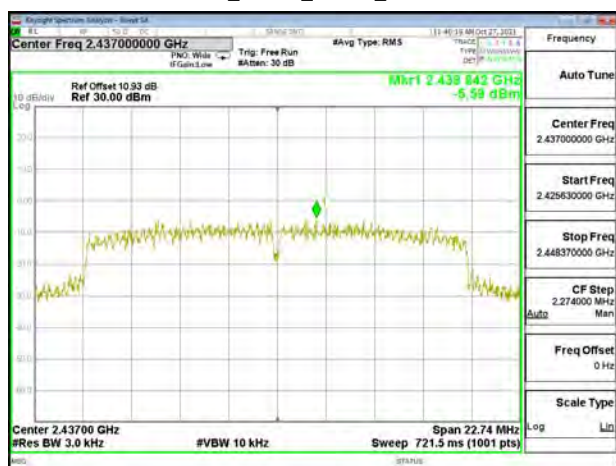
802.11n_20MHz_Chain0_2412MHz



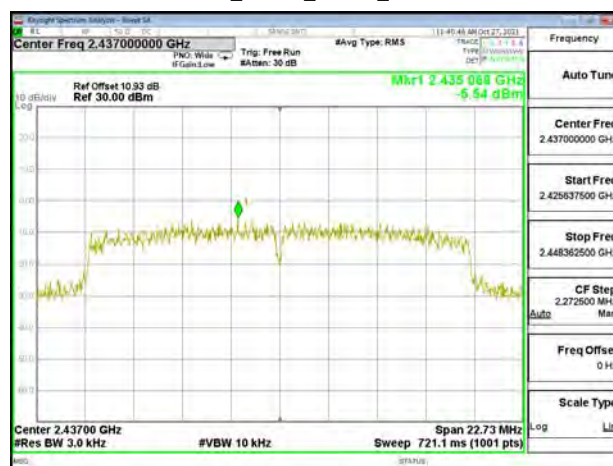
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



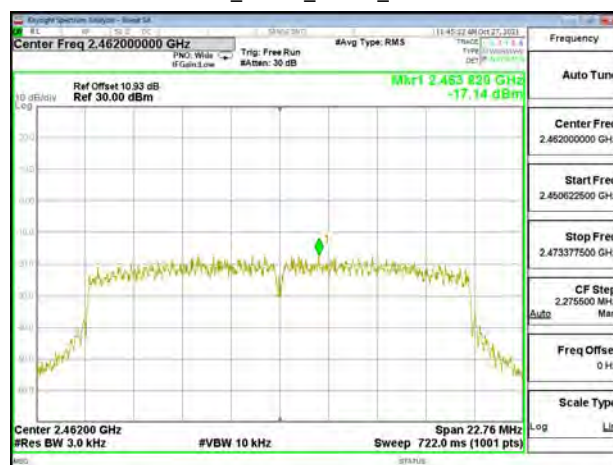
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

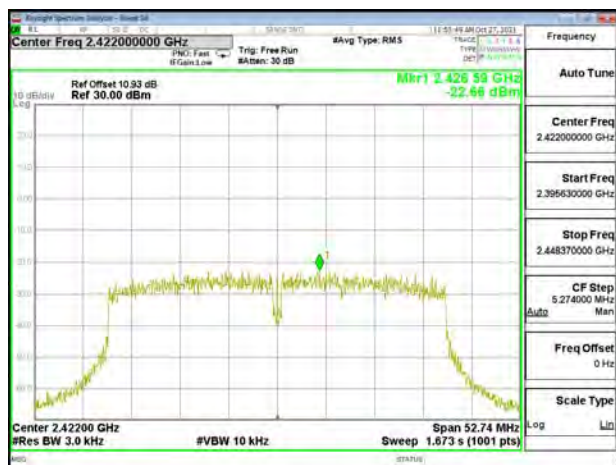


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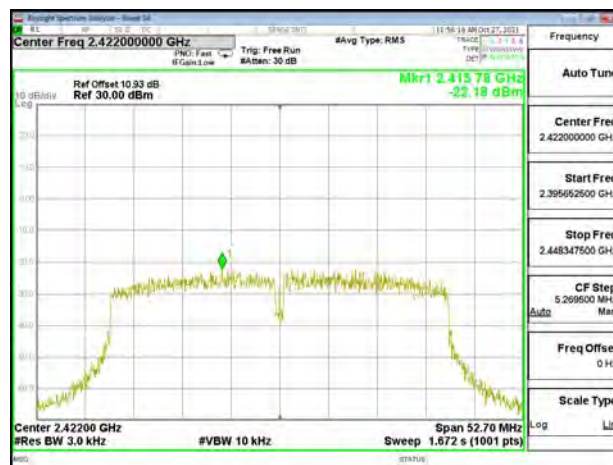
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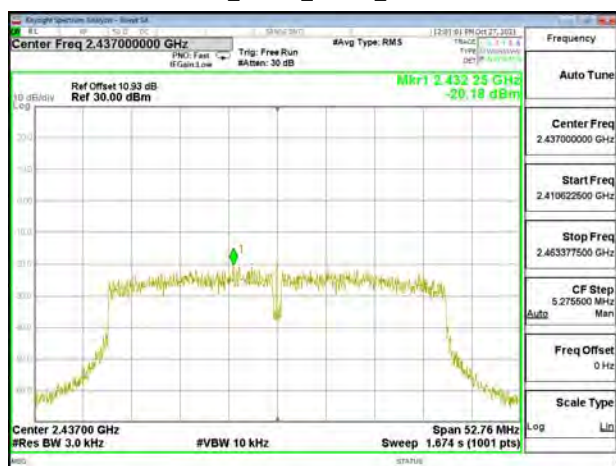
802.11n_40MHz_Chain0_2422MHz



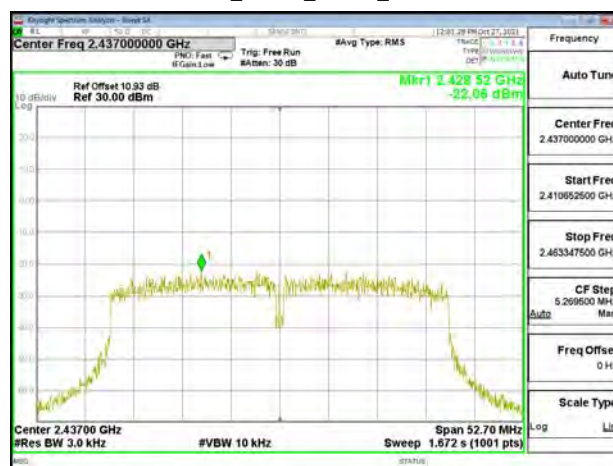
802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



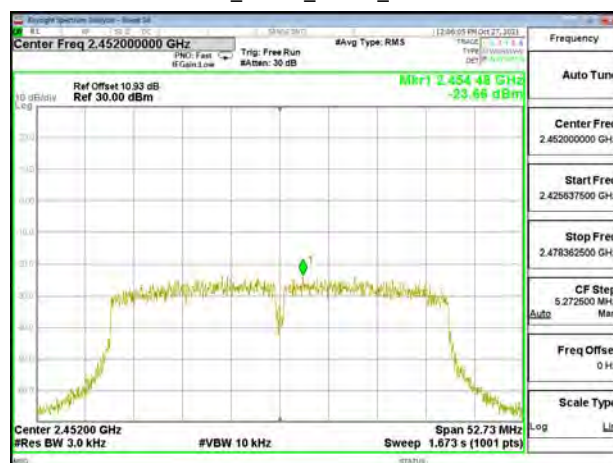
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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