

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Precor Incorporated
20031 142nd Ave NE, Woodinville, WA 98072, USA

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Precor console

Brand Name: Precor

Model No.: P84, P94

Model Difference: LCD panel difference, LCD panel size (P84:15.6", P94: 21.5")

Report Number: TERF2304000939E2

FCC ID SZNPRCR304233

IC: 7156A-PRCR304233

Date of EUT Received: April 20, 2023

Date of Test: April 21, 2023 ~ May 24, 2023

Issue Date: June 21, 2023

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISSED RSS-247.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2304000939E2	00	Original.	June 21, 2023	Tiffany Kao	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. and spot check is performed to demonstrate compliance for the variant.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Precor console
Brand Name:	Precor
Model No.:	P84, P94
Model Difference:	LCD panel difference, LCD panel size (P84:15.6", P94: 21.5")
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE_SP_20230403309
Power Supply:	12V
Test Software (Name/Version)	Qualcomm Radio Control Toolkit v4.0/version 4.0.00206.0

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	21.28	18.83	DSSS
802.11g	2412~2462	11	20.85	15.96	OFDM
802.11n20	2412~2462	11	20.61	15.75	OFDM
802.11n40	2422~2452	9	18.84	12.70	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:up to 144.4Mbps			
		802.11 n_40MHz:up to 300Mbps			

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WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)	Modulation Technology
			Peak	Avg.		
802.11b	2412~2462	11	21.28	18.83	24.68	DSSS
802.11g	2412~2462	11	20.85	15.96	21.81	OFDM
802.11n20	2412~2462	11	20.61	15.75	21.60	OFDM
802.11n40	2422~2452	9	18.84	12.70	18.55	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:up to 144.4Mbps				
		802.11 n_40MHz:up to 300Mbps				

1.3 Antenna Designation

P84:

Antenna Type	Supplier	Antenna Model No.	Antenna No.	Freq. (MHz)	Peak Antenna	Directional Gain(dBi)
Dipole Antenna	AWAN	DQ60AEP8P00	WIFI 0	2402MHz – 2480MHz	2.83	5.85
		DQ60AEP8P01	WIFI 1	2402MHz – 2480MHz	2.84	

P94:

Antenna Type	Supplier	Antenna Model No.	Antenna No.	Freq. (MHz)	Peak Antenna	Directional Gain(dBi)
Dipole Antenna	AWAN	DQ60AEP8P02	WIFI 0	2402MHz – 2480MHz	2.63	5.56
		DQ60AEP8P04	WIFI 1	2402MHz – 2480MHz	2.47	

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 April, 2018
ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		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 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50 μ H/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

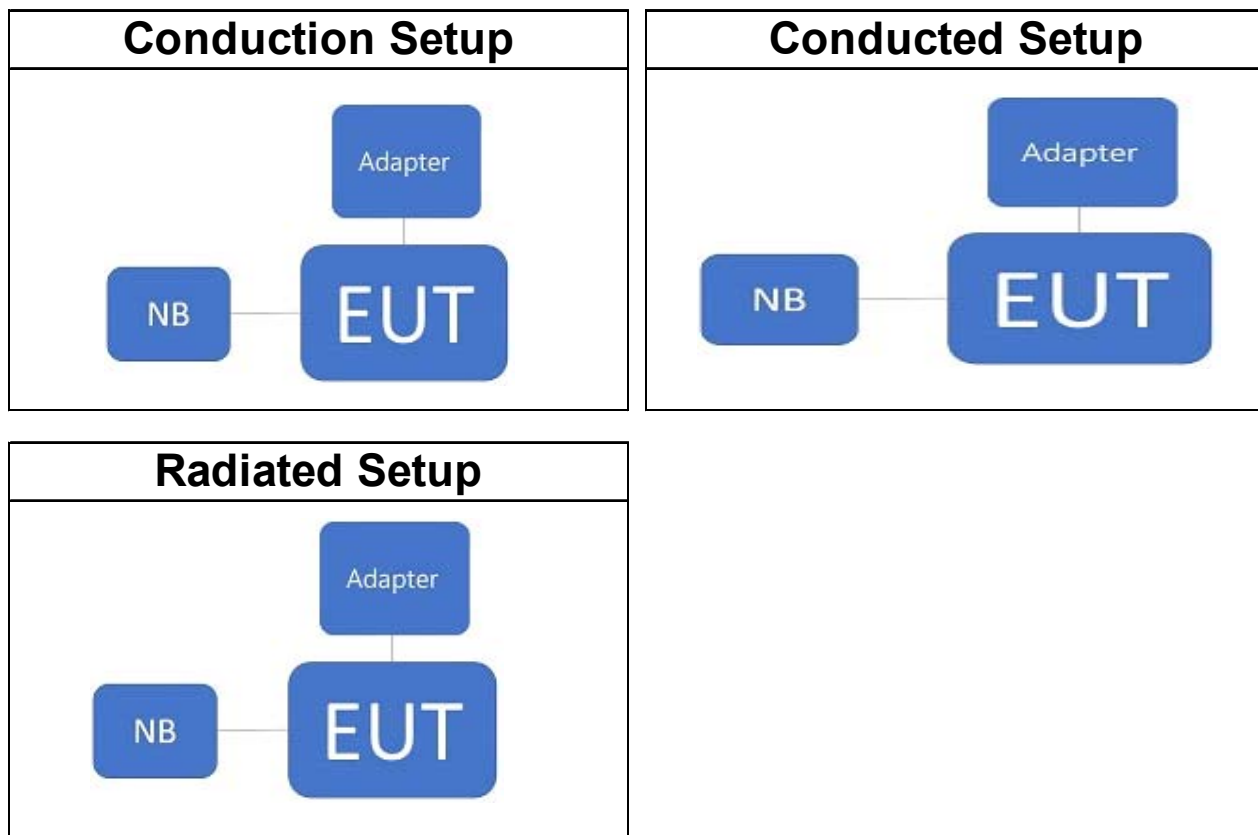
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T420	S0012599	N/A	N/A
Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0002332	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	ISED 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 BW 20MHz		Modulation of BW 40MHz	
CHANNEL	FREQUENCY (MHz)	CHANNEL	FREQUENCY (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437		
7	2442		
8	2447		
9	2452		
10	2457		
11	2462		

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. 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		1TX	v	2TX

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	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	2TX
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	2TX

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	2TX
802.11n (HT40)	3 to 9	6	OFDM	MCS0	2TX

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS0	2TX
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS0	2TX

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 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 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK	NSLK8127	973	04/20/2023	04/19/2024
EMI Test Receiver	R&S	ESCI	101342	04/25/2023	04/24/2024
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/08/2022	06/07/2023
Power Meter	Anritsu	ML2496A	1804002	04/26/2023	04/25/2024
Power Sensor	Anritsu	MA2411B	1726105	04/26/2023	04/25/2024
Power Sensor	Anritsu	MA2411B	1726106	04/26/2023	04/25/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF17	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF18	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF21	11/16/2022	11/15/2023
Switch E-Channel	E-Channel	ETF-1801 RF Switch	EC2100175	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF156	11/16/2022	11/15/2023

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1208	07/07/2022	07/06/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024
Loop Antenna	ETS.LINDGREN	6502	14303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/12/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC104-SM-SM- 8000-5000-5000	210219 、 210220 、 210221	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC105-NM-NM- 5000-15000	210224 、 210306	03/15/2023	03/14/2024

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

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7 CONDUCTED EMISSION TEST

7.1 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

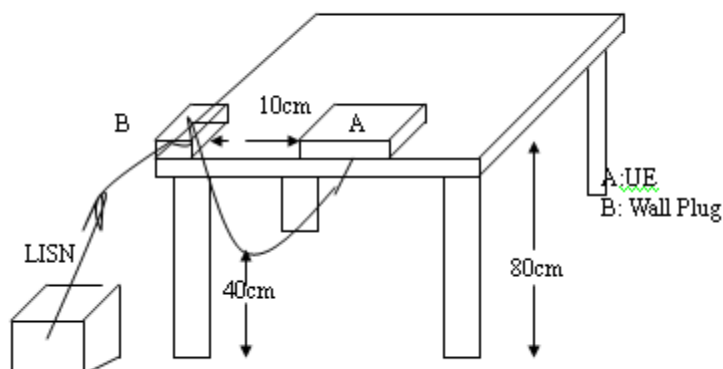
Note

- 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.

7.2 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.

7.3 Test Setup



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7.4 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

7.5 Measurement Result

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

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

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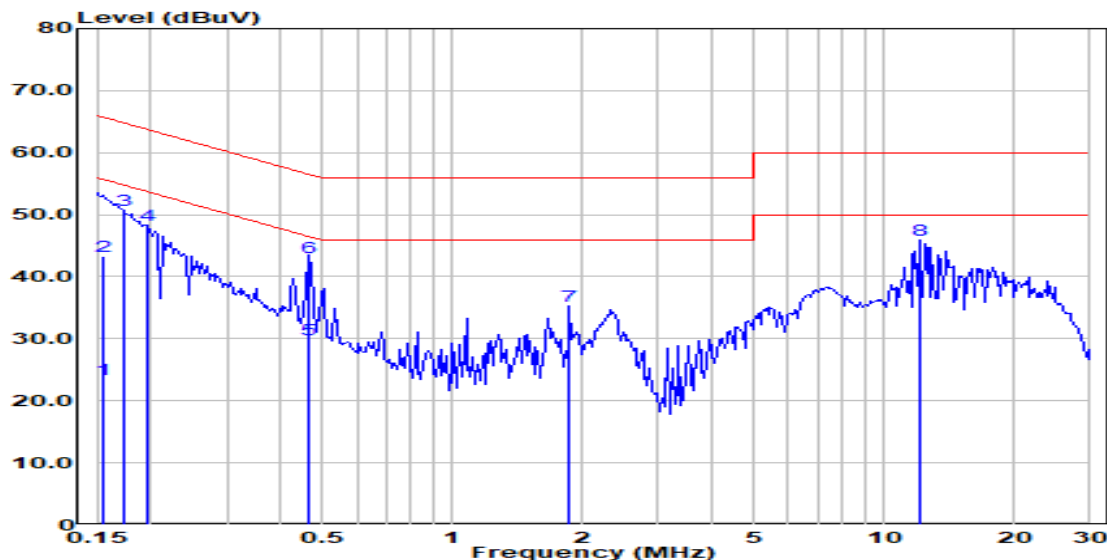
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2304000939E2	Test Site	:Conduction C
Test Mode	:WLAN 2.4G	Test Date	:2023-05-10
Power	:120V/60Hz	Temp./Humi.	:23.8/55
Probe	:L1	Engineer	:Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.155	Average	13.08	10.32	23.40	55.74	-32.34
0.155	QP	33.08	10.32	43.40	65.74	-22.34
0.172	Peak	40.37	10.32	50.69	64.86	-14.17
0.195	Peak	38.02	10.31	48.33	63.80	-15.47
0.466	Average	19.58	10.33	29.91	46.58	-16.67
0.466	QP	32.68	10.33	43.01	56.58	-13.57
1.868	Peak	24.10	11.09	35.19	56.00	-20.81
12.060	Peak	35.30	10.67	45.97	60.00	-14.03

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Report Number :TERF2304000939E2

Test Site :Conduction C

Test Mode :WLAN 2.4G

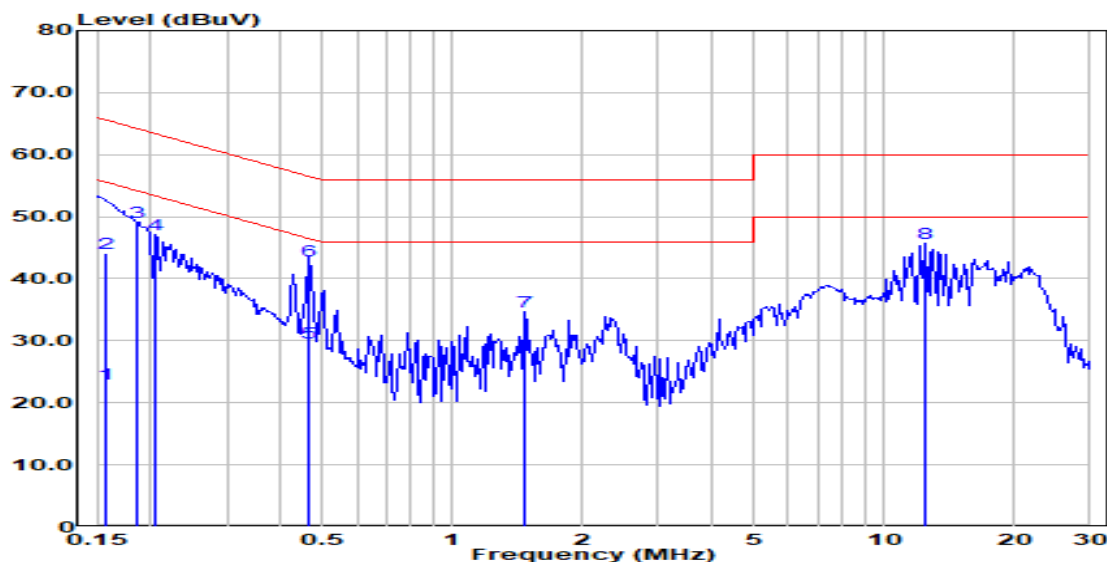
Test Date :2023-05-10

Power :120V/60Hz

Temp./Humi. :23.8/55

Probe :N

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS				
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.158	Average	12.80	10.30	23.10	55.56	-32.46
0.158	QP	33.80	10.30	44.10	65.56	-21.46
0.185	Peak	38.92	10.30	49.22	64.24	-15.02
0.204	Peak	36.78	10.30	47.08	63.45	-16.37
0.466	Average	19.40	10.31	29.71	46.58	-16.87
0.466	QP	32.50	10.31	42.81	56.58	-13.77
1.464	Peak	23.98	10.80	34.78	56.00	-21.22
12.449	Peak	35.03	10.73	45.76	60.00	-14.24

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.2 Duty Cycle

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.

8.3 Output Power

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

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

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

Note:

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

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

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

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;

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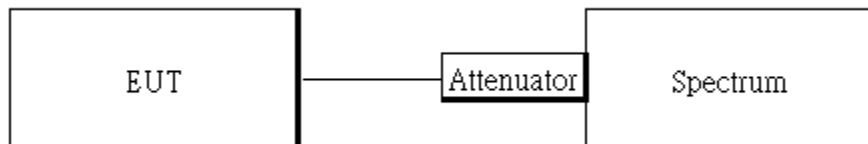
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G_k is the gain in dBi of the kth antenna.

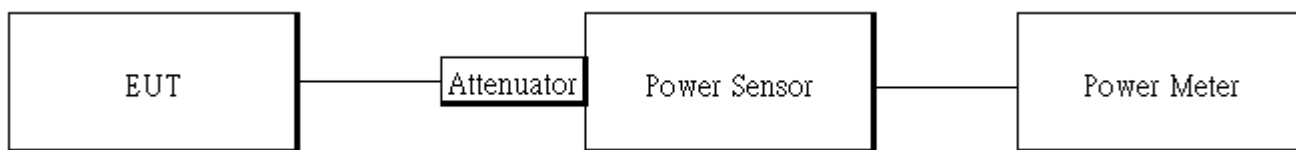
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

8.4 Test Setup

8.4.1 Duty Cycle



8.4.2 Output Power:



8.5 Measurement Procedure

8.5.1 Duty Cycle:

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

8.5.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.
5. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

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

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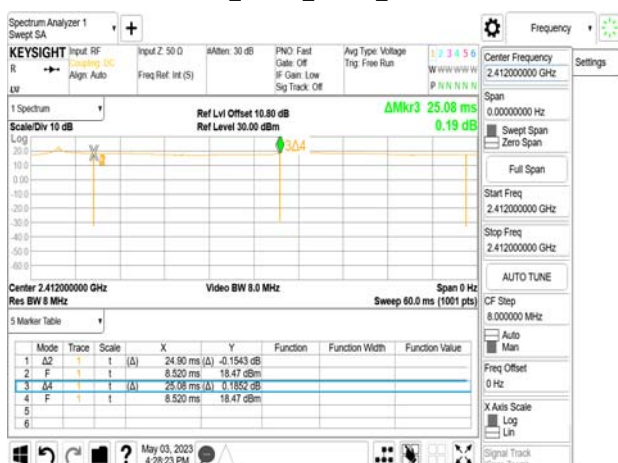
8.6 Measurement Result

8.6.1 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.28	0.03	0.08	0.01
802.11g	98.24	0.08	0.48	0.01
802.11n_20	98.11	0.08	0.52	0.01
802.11n_40	94.79	0.23	1.06	2.00

8.6.2 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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8.6.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	16.71	30.00	PASS
6	2437	1	14.5	16.38	30.00	PASS
11	2462	1	16	17.97	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	14.41	30.00	PASS
6	2437	1	14.5	13.95	30.00	PASS
11	2462	1	16	15.90	30.00	PASS

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	16.63	30.00	PASS
6	2437	1	14	16.27	30.00	PASS
11	2462	1	16	17.81	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	15	14.32	30.00	PASS
6	2437	1	14	13.90	30.00	PASS
11	2462	1	16	15.84	30.00	PASS

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802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	1	15	17.02	16.60	19.83	30.00	PASS
6	2437	1	14.5	16.40	16.34	19.38	30.00	PASS
11	2462	1	16.5	18.32	18.21	21.28	30.00	PASS

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	1	15	14.54	14.39	17.48	30.00	PASS
6	2437	1	14.5	14.01	13.83	16.93	30.00	PASS
11	2462	1	16.5	15.92	15.71	18.83	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14.5	17.68	30.00	PASS
6	2437	6	14.5	17.57	30.00	PASS
11	2462	6	14.5	17.44	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14.5	12.91	30.00	PASS
6	2437	6	14.5	12.97	30.00	PASS
11	2462	6	14.5	12.87	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	14.5	17.59	30.00	PASS
6	2437	6	14.5	17.48	30.00	PASS
11	2462	6	14.5	17.36	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14.5	12.83	30.00	PASS
6	2437	6	14.5	12.87	30.00	PASS
11	2462	6	14.5	12.79	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	6	14.5	17.88	17.79	20.85	30.00	PASS
6	2437	6	14.5	17.78	17.59	20.70	30.00	PASS
11	2462	6	14.5	17.69	17.33	20.52	30.00	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	6	14.5	13.05	12.85	15.96	30.00	PASS
6	2437	6	14.5	12.99	12.89	15.95	30.00	PASS
11	2462	6	14.5	12.97	12.85	15.92	30.00	PASS

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802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12.5	16.36	30.00	PASS
6	2437	MCS0	14	17.66	30.00	PASS
11	2462	MCS0	12.5	16.55	30.00	PASS
802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12.5	11.42	30.00	PASS
6	2437	MCS0	14	12.96	30.00	PASS
11	2462	MCS0	12.5	11.49	30.00	PASS

802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12.5	16.25	30.00	PASS
6	2437	MCS0	14	17.51	30.00	PASS
11	2462	MCS0	12.5	16.32	30.00	PASS
802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12.5	11.36	30.00	PASS
6	2437	MCS0	14	12.84	30.00	PASS
11	2462	MCS0	12.5	11.42	30.00	PASS

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802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	12.5	16.56	16.29	19.44	30.00	PASS
6	2437	MCS0	14	17.85	17.33	20.61	30.00	PASS
11	2462	MCS0	12.5	16.48	16.25	19.38	30.00	PASS

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	12.5	11.50	11.38	14.45	30.00	PASS
6	2437	MCS0	14	12.83	12.64	15.75	30.00	PASS
11	2462	MCS0	12.5	11.56	11.34	14.46	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8	13.03	30.00	PASS
6	2437	MCS0	9	13.91	30.00	PASS
9	2452	MCS0	10	15.45	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8	7.48	30.00	PASS
6	2437	MCS0	9	8.43	30.00	PASS
9	2452	MCS0	10	9.93	30.00	PASS

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802.11n_HT_40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8	12.89	30.00	PASS
6	2437	MCS0	9	13.67	30.00	PASS
9	2452	MCS0	10	15.23	30.00	PASS
802.11n_HT_40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8	7.41	30.00	PASS
6	2437	MCS0	9	8.32	30.00	PASS
9	2452	MCS0	10	9.84	30.00	PASS

802.11n_HT40M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	8	13.36	13.19	16.29	30.00	PASS
6	2437	MCS0	9.5	14.96	14.69	17.84	30.00	PASS
9	2452	MCS0	10	15.89	15.76	18.84	30.00	PASS
802.11n_HT40M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	8	7.41	7.16	10.30	30.00	PASS
6	2437	MCS0	9.5	8.68	8.26	11.49	30.00	PASS
9	2452	MCS0	10	9.96	9.39	12.70	30.00	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	14.41	2.83	17.24	36	PASS
6	2437	1	13.95	2.83	16.78	36	PASS
11	2462	1	15.90	2.83	18.73	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	14.32	2.84	17.16	36	PASS
6	2437	1	13.90	2.84	16.74	36	PASS
11	2462	1	15.84	2.84	18.68	36	PASS

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	1	14.54	14.39	17.48	5.85	23.33	36	PASS
6	2437	1	14.01	13.83	16.93	5.85	22.78	36	PASS
11	2462	1	15.92	15.71	18.83	5.85	24.68	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	12.91	2.83	15.74	36	PASS
6	2437	6	12.97	2.83	15.80	36	PASS
11	2462	6	12.87	2.83	15.70	36	PASS

802.11g Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	12.83	2.84	15.67	36	PASS
6	2437	6	12.87	2.84	15.71	36	PASS
11	2462	6	12.79	2.84	15.63	36	PASS

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802.11g_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	6	13.05	12.85	15.96	5.85	21.81	36	PASS
6	2437	6	12.99	12.89	15.95	5.85	21.80	36	PASS
11	2462	6	12.97	12.85	15.92	5.85	21.77	36	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11.42	2.83	14.25	36	PASS
6	2437	MCS0	12.96	2.83	15.79	36	PASS
11	2462	MCS0	11.49	2.83	14.32	36	PASS

802.11n_HT_20M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11.36	2.84	14.20	36	PASS
6	2437	MCS0	12.84	2.84	15.68	36	PASS
11	2462	MCS0	11.42	2.84	14.26	36	PASS

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	MCS0	11.50	11.38	14.45	5.85	20.30	36	PASS
6	2437	MCS0	12.83	12.64	15.75	5.85	21.60	36	PASS
11	2462	MCS0	11.56	11.34	14.46	5.85	20.31	36	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	7.48	2.83	10.31	36	PASS
6	2437	MCS0	8.43	2.83	11.26	36	PASS
9	2452	MCS0	9.93	2.83	12.76	36	PASS

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802.11n_HT_40M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	7.41	2.84	10.25	36	PASS
6	2437	MCS0	8.32	2.84	11.16	36	PASS
9	2452	MCS0	9.84	2.84	12.68	36	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
3	2422	MCS0	7.41	7.16	10.30	5.85	16.15	36	PASS
6	2437	MCS0	8.68	8.26	11.49	5.85	17.34	36	PASS
9	2452	MCS0	9.96	9.39	12.70	5.85	18.55	36	PASS

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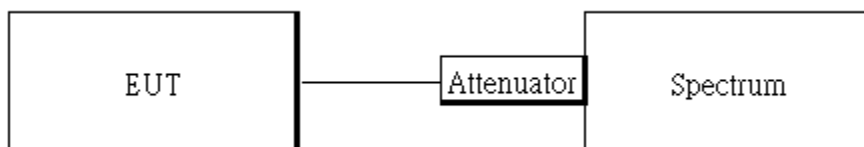
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 FCC measurements

1. The testing follows the Measurement Procedure of the KDB 558074 D01.
2. Set the spectrum analyzer as
RBW= 100 kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of -6dB.
4. Repeat above procedures until all test default channel is completed.

9.3.2 ISED measurements

1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
2. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% and -6dB Bandwidth ,
VBW $\geq$ 3 X RBW,
Span= large enough to capture all products of the modulation process
Sweep=auto, Detector = Peak, and Max hold.
3. Mark the upper and lower frequencies of 99% and -6dB.
4. Repeat above procedures until all test default channel is completed.

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9.4 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8098.00	≥ 500	PASS
2437	8118.00	≥ 500	PASS
2462	8104.00	≥ 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8107.00	≥ 500	PASS
2437	8115.00	≥ 500	PASS
2462	8113.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130.00	≥ 500	PASS
2437	15460.00	≥ 500	PASS
2462	15160.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150.00	≥ 500	PASS
2437	15730.00	≥ 500	PASS
2462	15750.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130.00	≥ 500	PASS
2437	15720.00	≥ 500	PASS
2462	15950.00	≥ 500	PASS

802.11n_HT_20M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15170.00	≥ 500	PASS
2437	16430.00	≥ 500	PASS
2462	15950.00	≥ 500	PASS

802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35180.00	≥ 500	PASS
2437	36060.00	≥ 500	PASS
2452	35140.00	≥ 500	PASS

802.11n_HT_40M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35200.00	≥ 500	PASS
2437	35190.00	≥ 500	PASS
2452	35160.00	≥ 500	PASS

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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

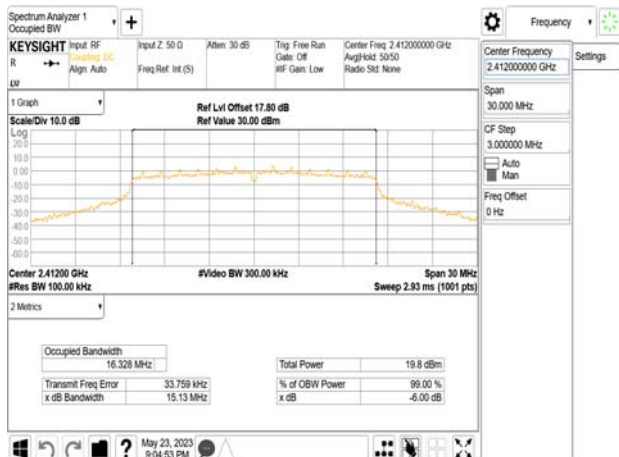


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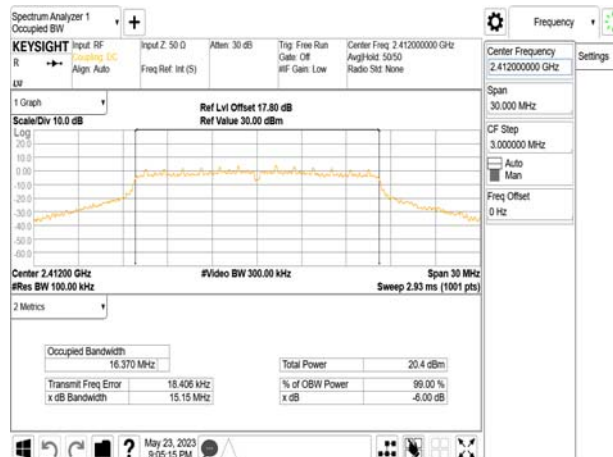
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802.11g_20MHz_Chain0_2412MHz



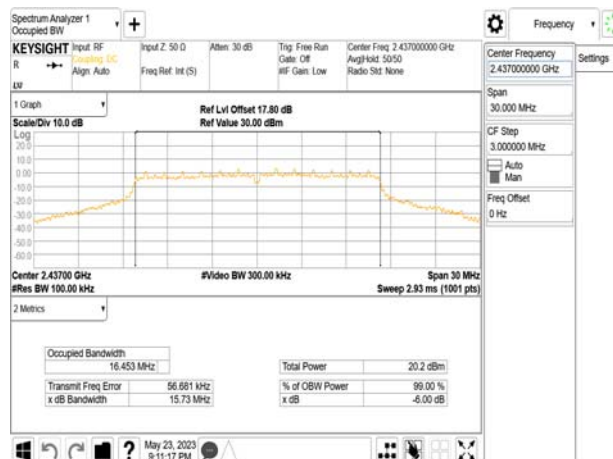
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802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

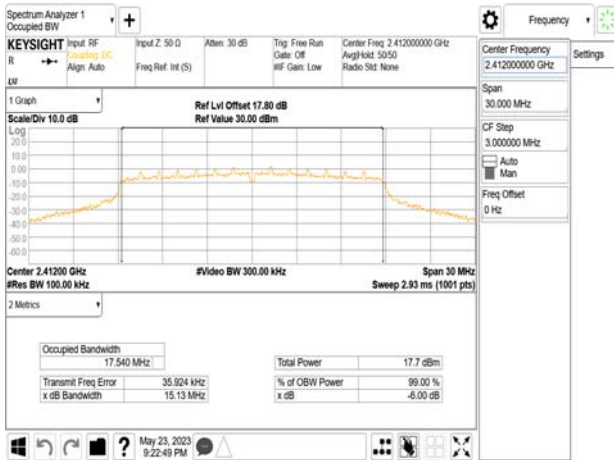


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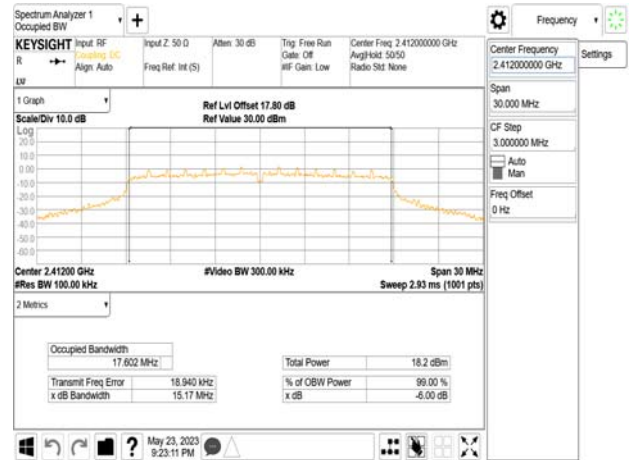
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802.11n_20MHz_Chain0_2412MHz



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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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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9.5 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	13.305
2437	13.922
2462	13.75

802.11b Ch1

Freq. (MHz)	99% BW (MHz)
2412	13.796
2437	14.062
2462	13.987

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.473
2437	16.769
2462	16.626

802.11g Ch1

Freq. (MHz)	99% BW (MHz)
2412	16.504
2437	16.644
2462	16.678

802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.65
2437	17.951
2462	17.799

802.11n_HT20M Ch1

Freq. (MHz)	99% BW (MHz)
2412	17.707
2437	17.9
2462	17.902

802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)
2422	36.207
2437	36.464
2452	36.046

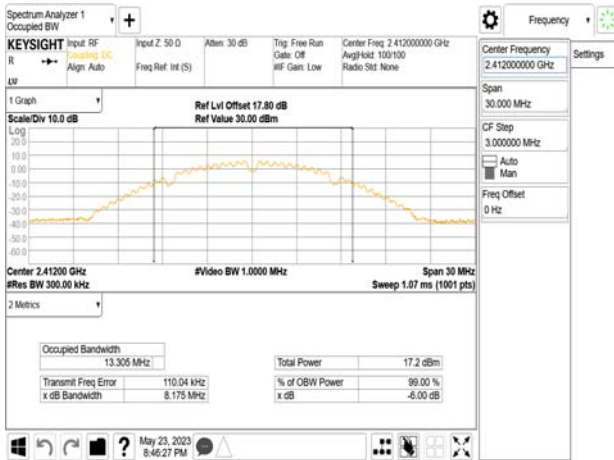
802.11n_HT40M Ch1

Freq. (MHz)	99% BW (MHz)
2422	36.213
2437	36.199
2452	36.097

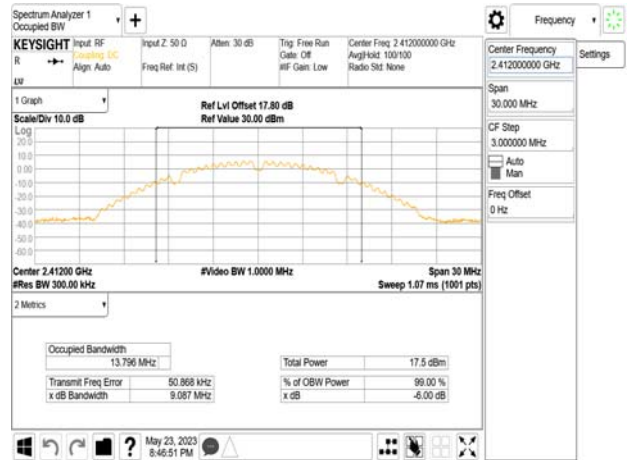
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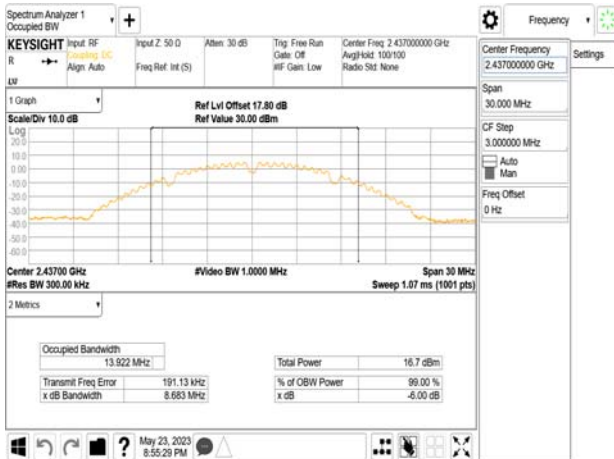
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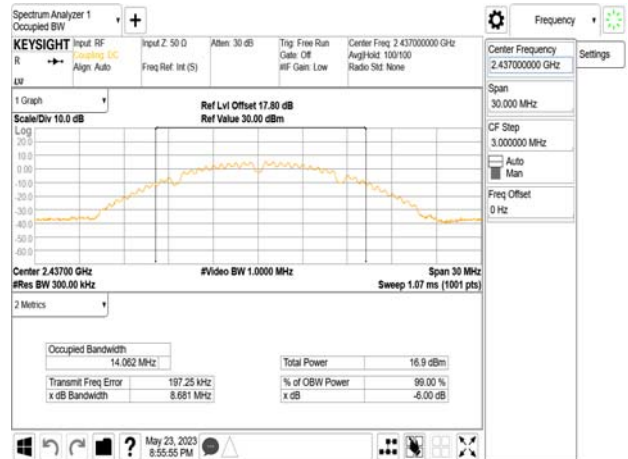
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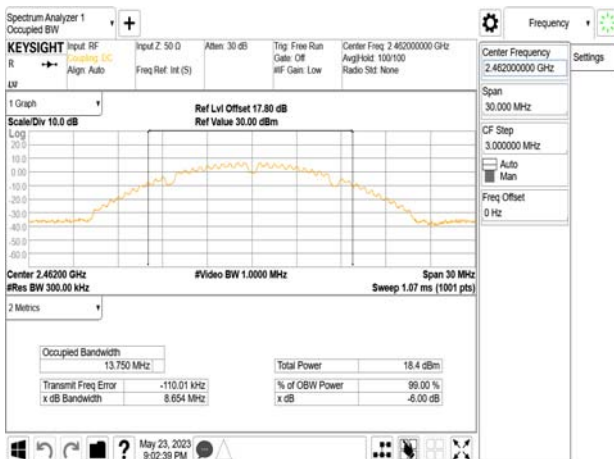
802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

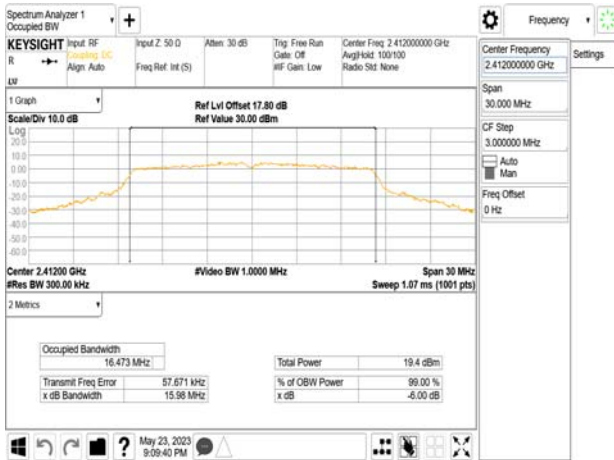


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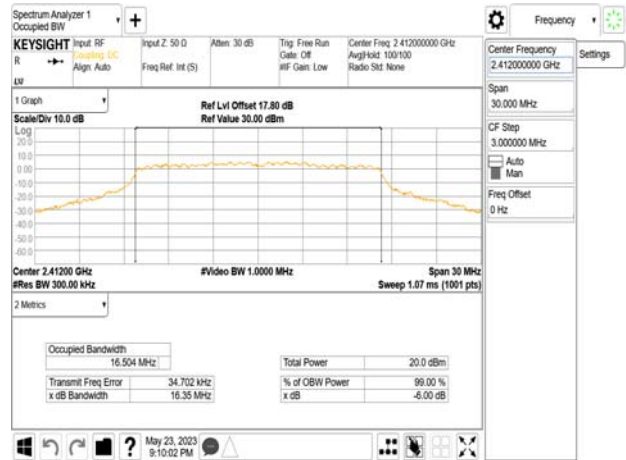
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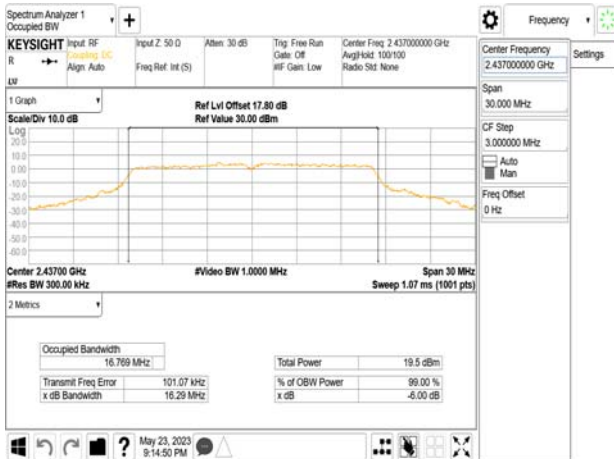
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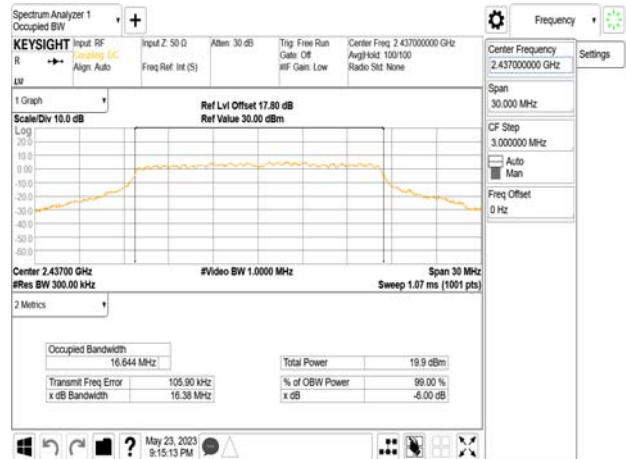
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802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

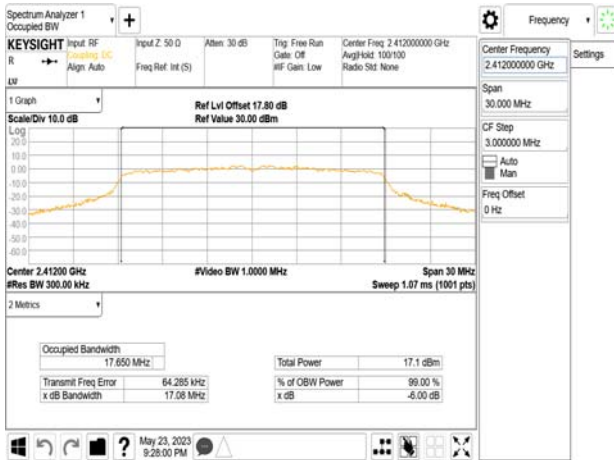


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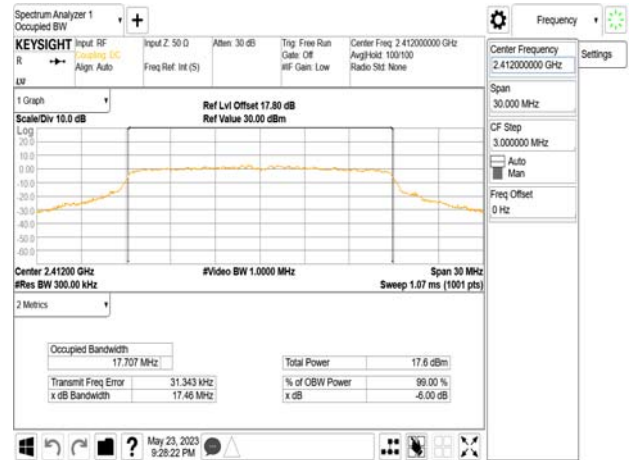
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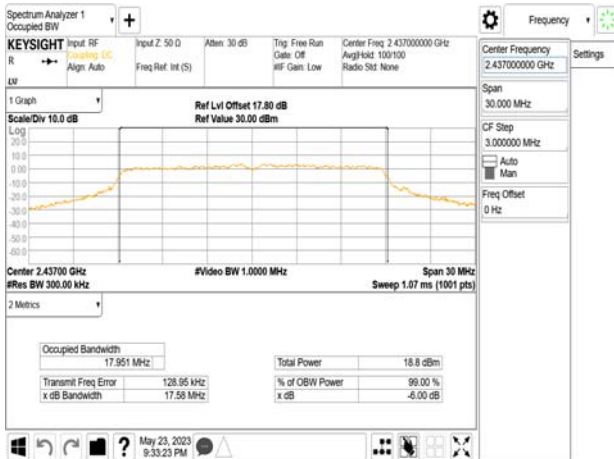
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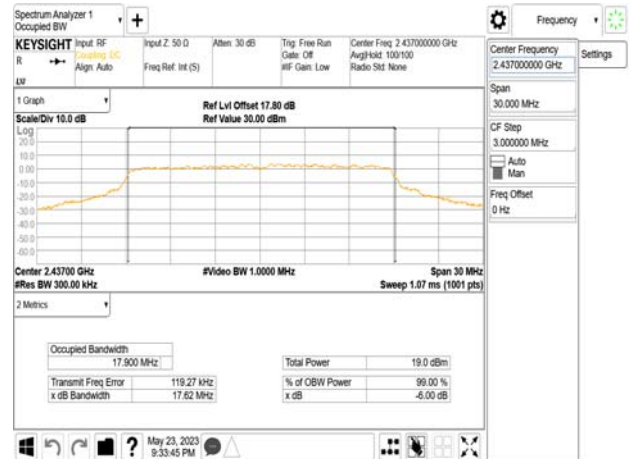
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



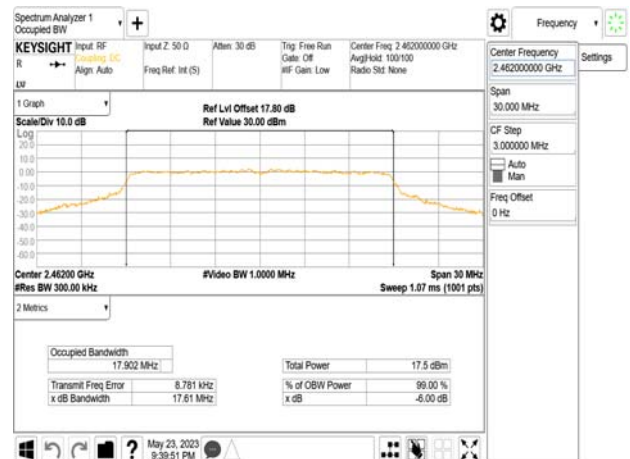
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802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

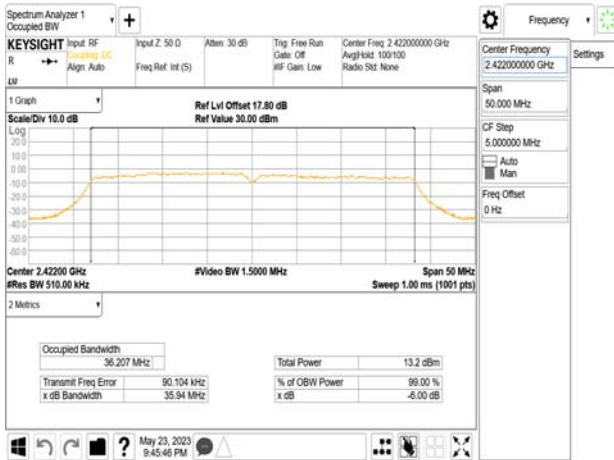


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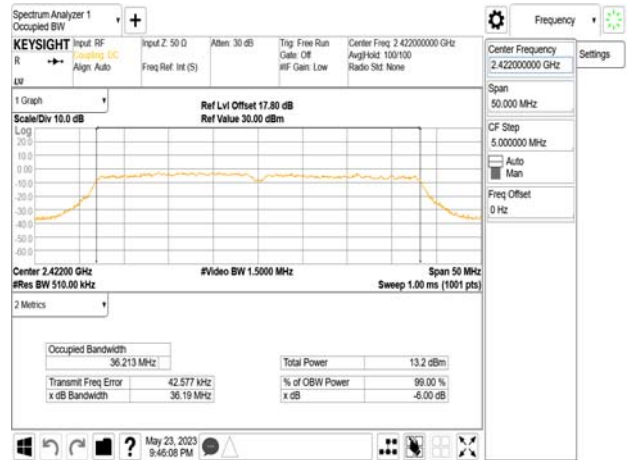
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802.11n_40MHz_Chain0_2422MHz



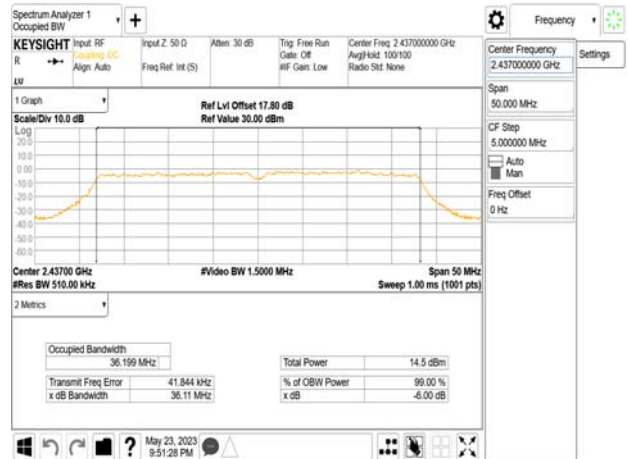
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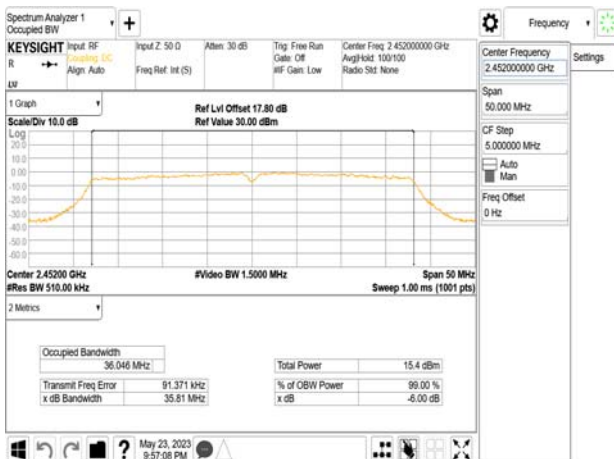
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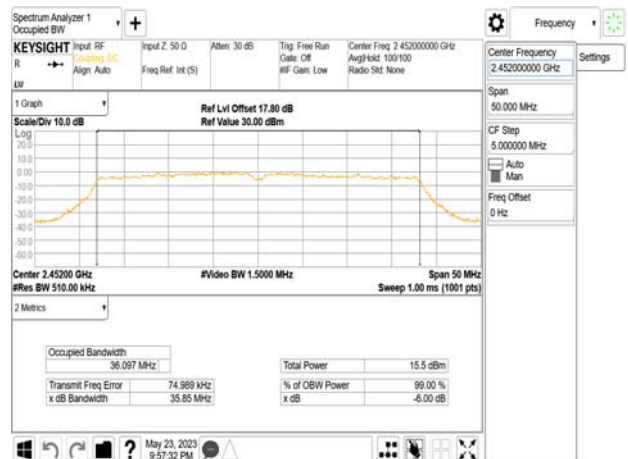
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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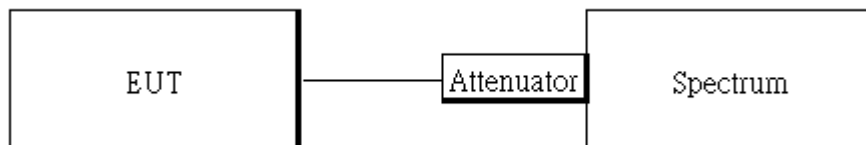
10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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 Test Setup



10.3 Measurement Procedure

10.3.1 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.

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10.3.2 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.

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10.4 Measurement Result

802.11b Ch0

Reference Level of Limit			Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.52	-14.48	2412	5.82	-14.18
2437	4.83	-15.17	2437	5.20	-14.80
2462	6.67	-13.33	2462	6.75	-13.25

802.11b Ch1

802.11g Ch0

Reference Level of Limit 802.11g mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.69	-16.31	2412	3.88	-16.12
2437	3.33	-16.67	2437	3.60	-16.40
2462	3.21	-16.79	2462	2.70	-17.30

802.11g Ch1

802.11n_HT_20M Ch0

Reference Level of Limit 802.11n20 MODE			Reference Level of Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	1.62	-18.38	2412	1.74	-18.26
2437	2.73	-17.27	2437	2.82	-17.18
2462	1.23	-18.77	2462	1.22	-18.78

802.11n_HT_20M Ch1

802.11n_HT_40M Ch0

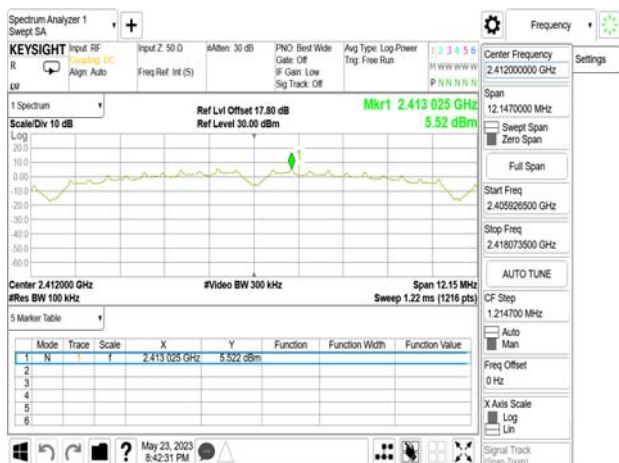
Reference Level of Limit 802.11n40 MODE			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-6.1	-26.10	2422	-6.53	-26.53
2437	-5.56	-25.56	2437	-5.71	-25.71
2452	-3.98	-23.98	2452	-4.12	-24.12

802.11n_HT_40M Ch1

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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



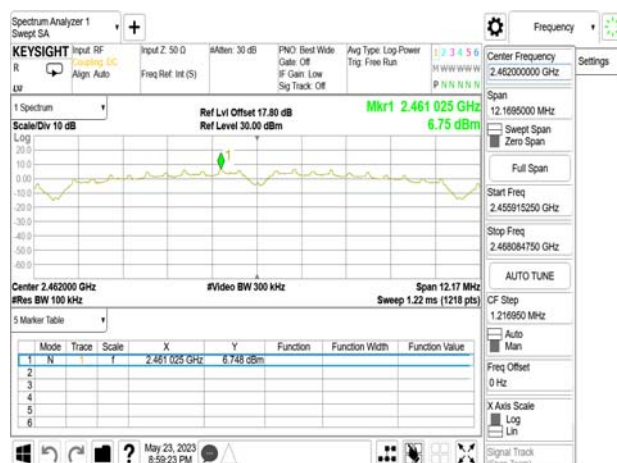
802.11b_20MHz_Chain1_2437MHz



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



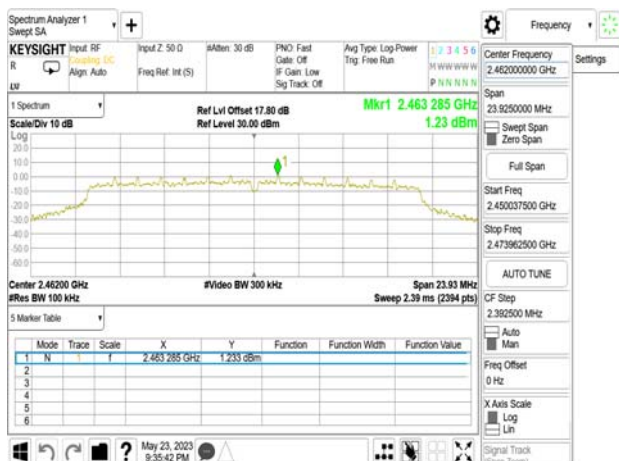
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802.11n_20MHz_Chain1_2437MHz



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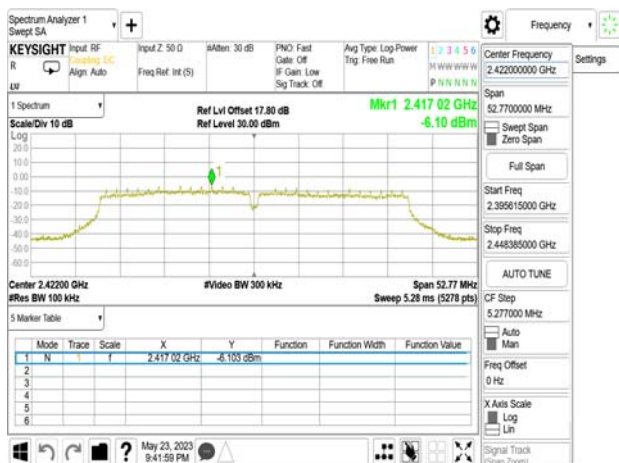


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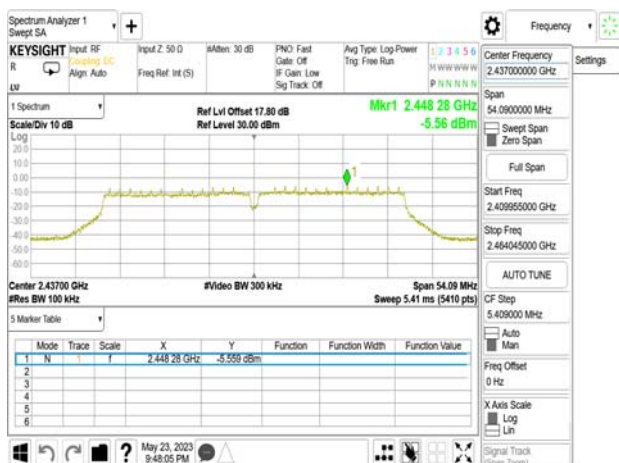
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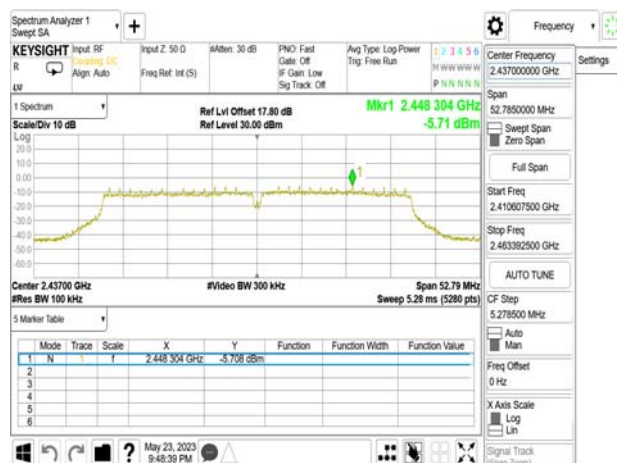
802.11n_40MHz_Chain1_2422MHz



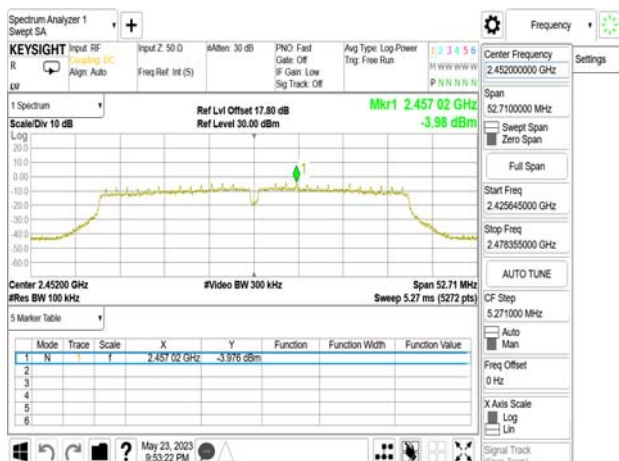
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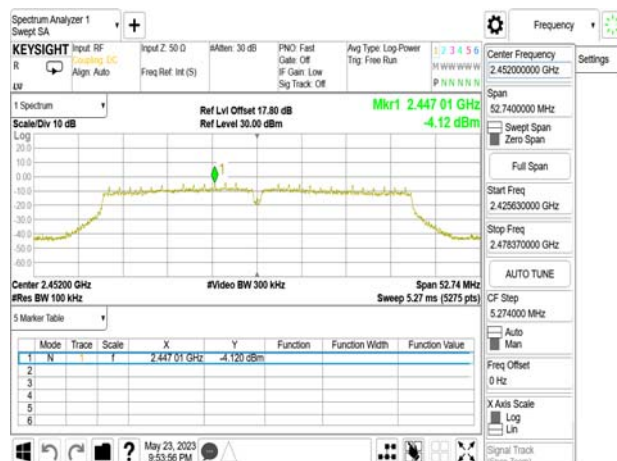
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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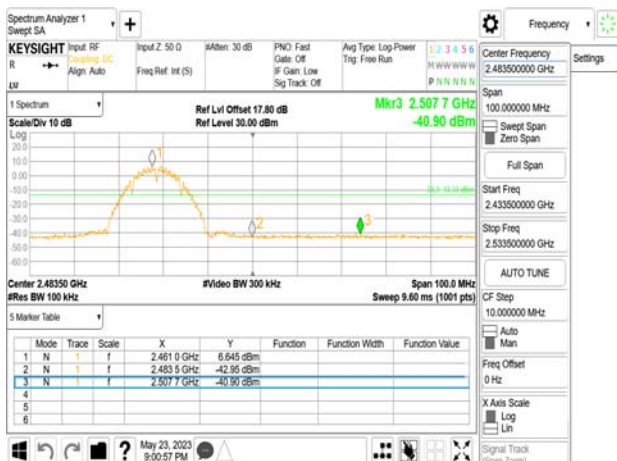
802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2462MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2462MHz

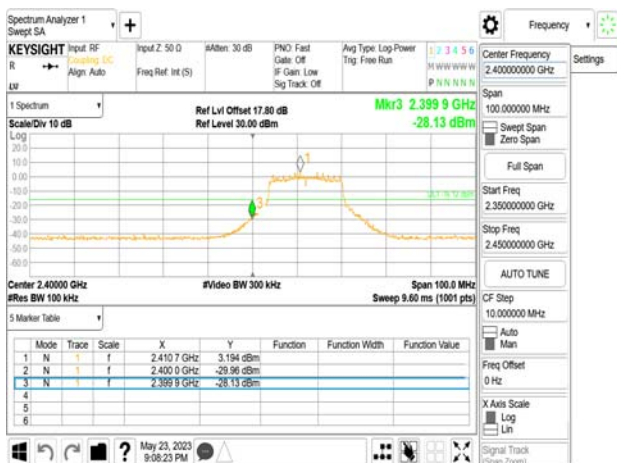


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802.11g_20MHz_Chain1_2412MHz



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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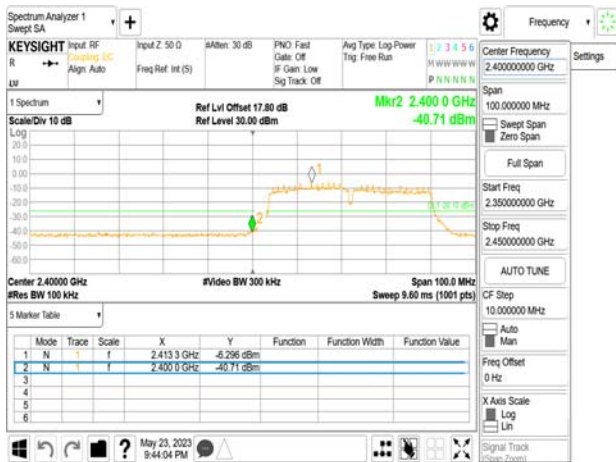
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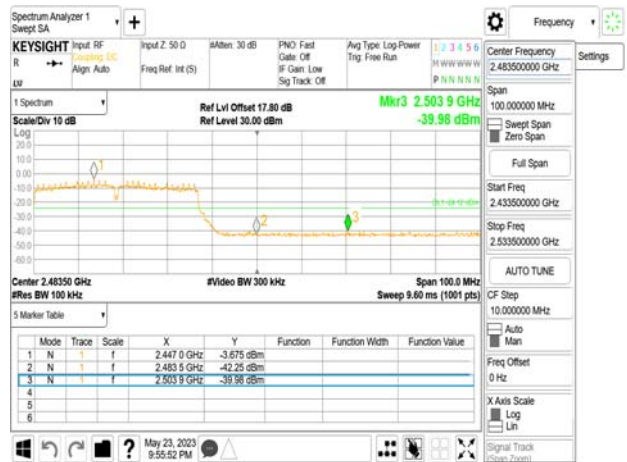
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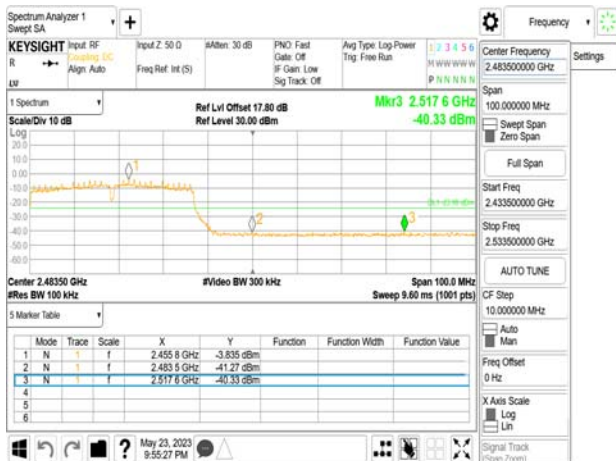
802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2422MHz



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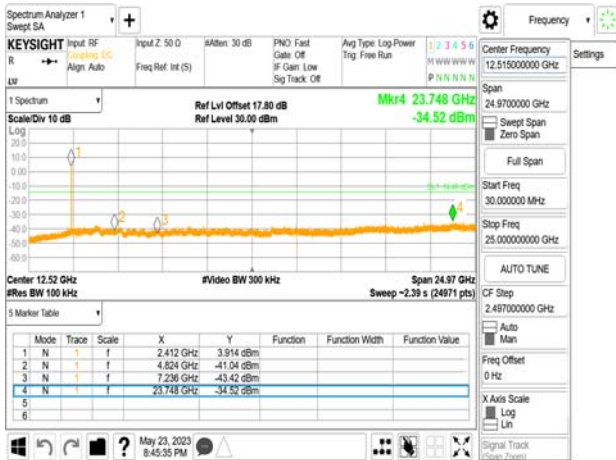
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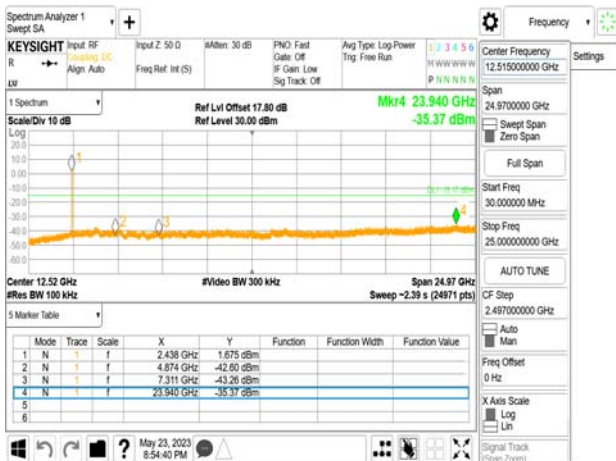
802.11b_20MHz_Chain0_2412MHz



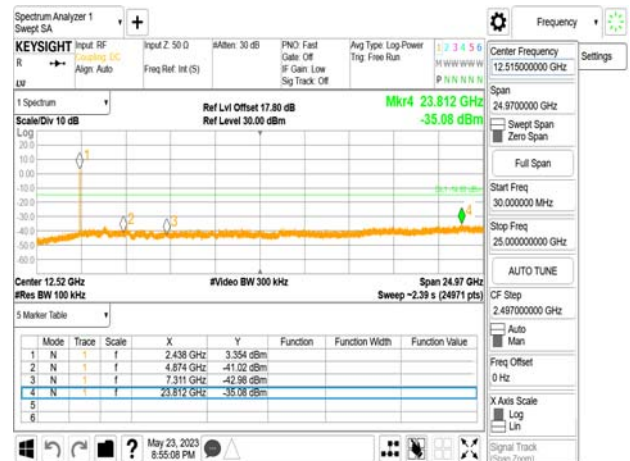
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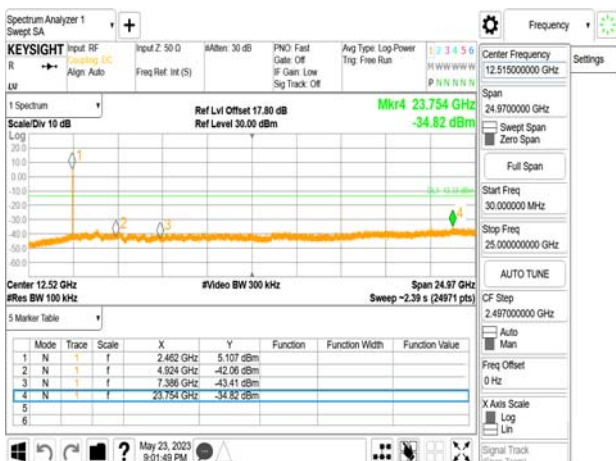
802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

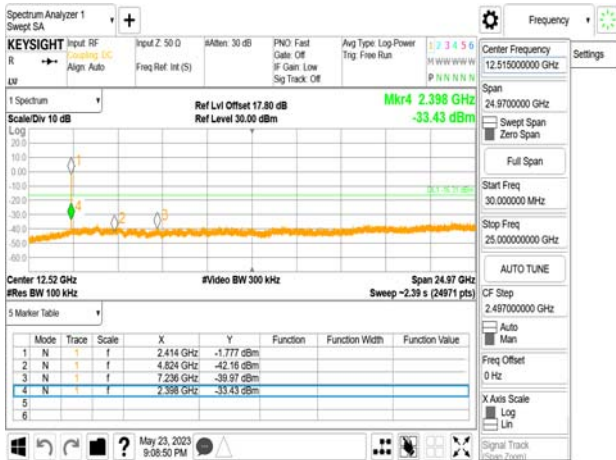


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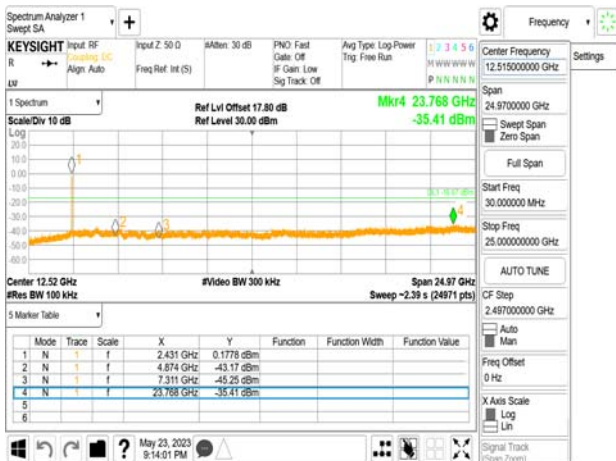
802.11g_20MHz_Chain0_2412MHz



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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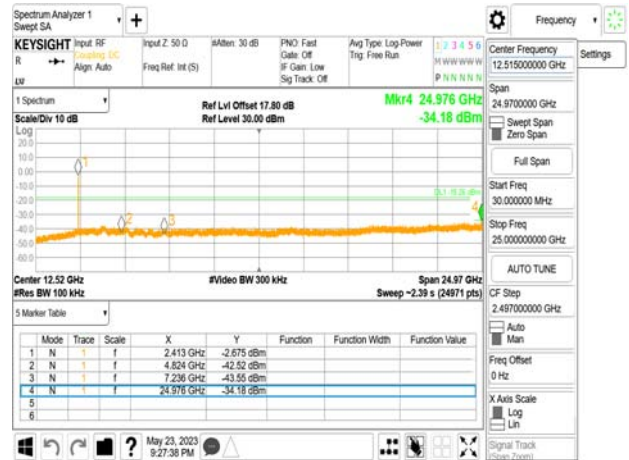
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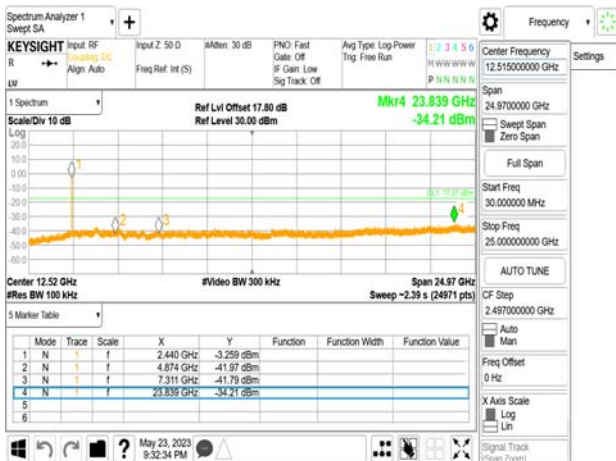
802.11n_20MHz_Chain0_2412MHz



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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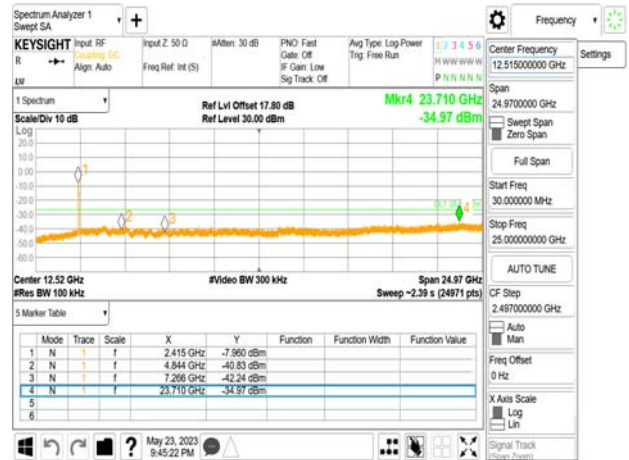
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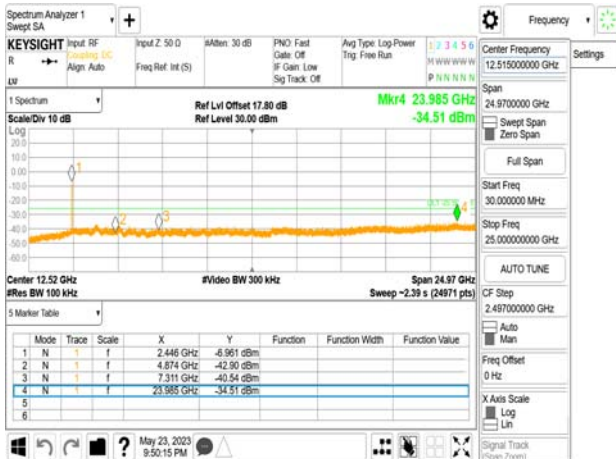
802.11n_40MHz_Chain0_2422MHz



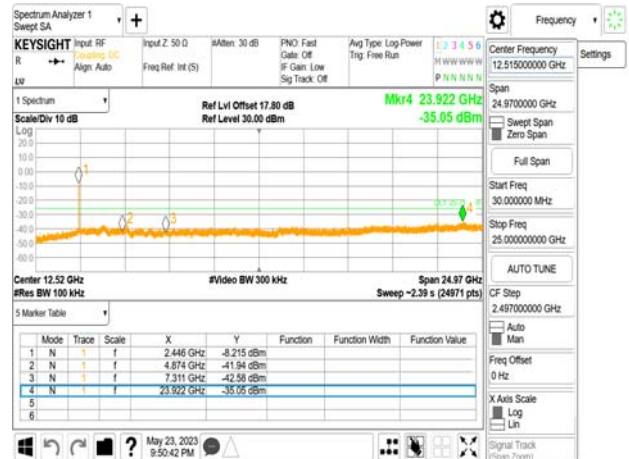
802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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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:

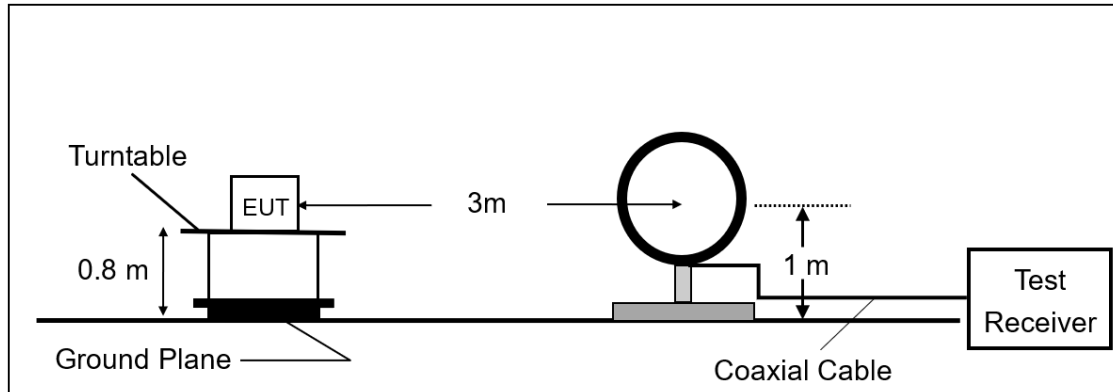
1. The lower limit shall apply at the transition frequencies.

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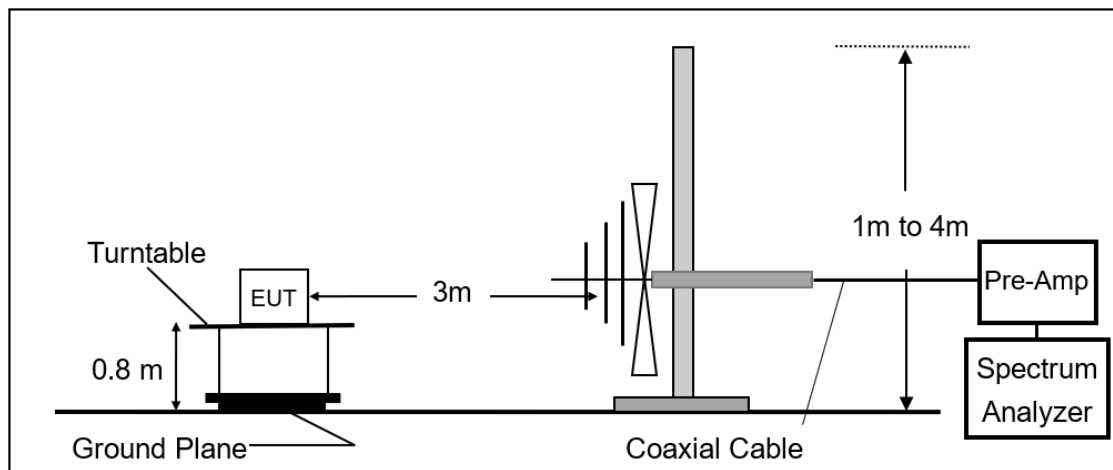
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11.2 Test Setup

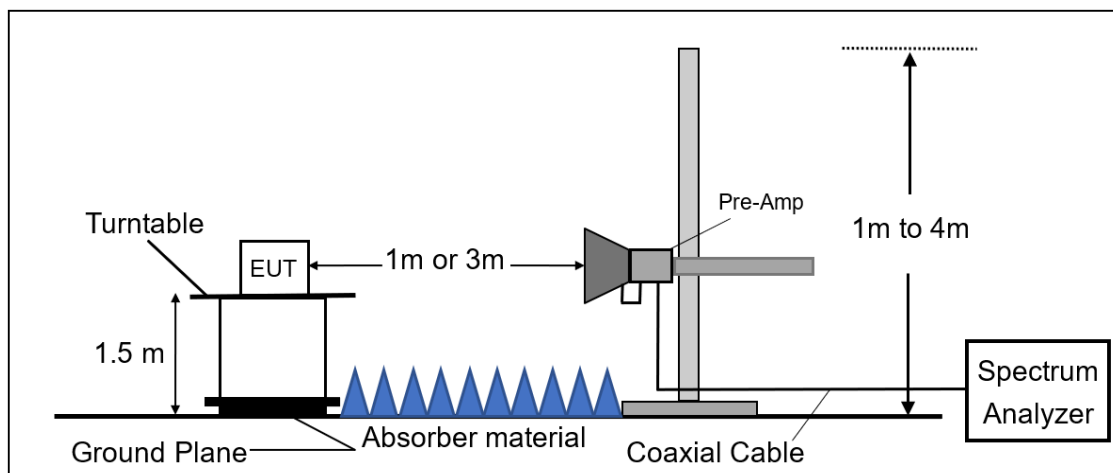
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 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.

11.4 Field Strength Calculation

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

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

11.5 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.

11.6 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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11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2412 MHz

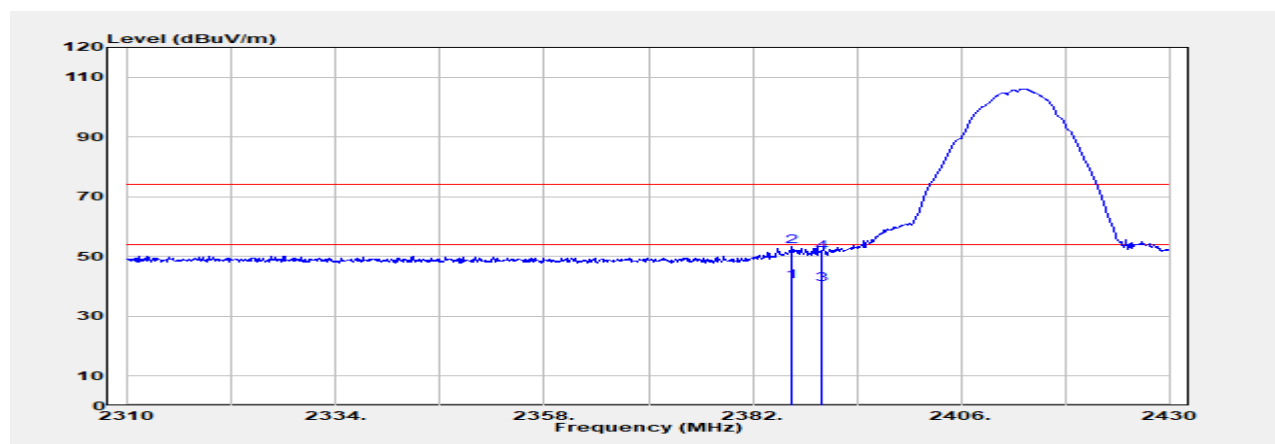
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2386.560	Average	45.06	-3.49	41.57	54.00	-12.43
2386.560	Peak	56.78	-3.49	53.28	74.00	-20.72
2390.000	Average	44.18	-3.51	40.67	54.00	-13.33
2390.000	Peak	54.80	-3.51	51.29	74.00	-22.71

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Report Number :TERF2304000939E2

Operation Mode :802.11b

Test Frequency :2412 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

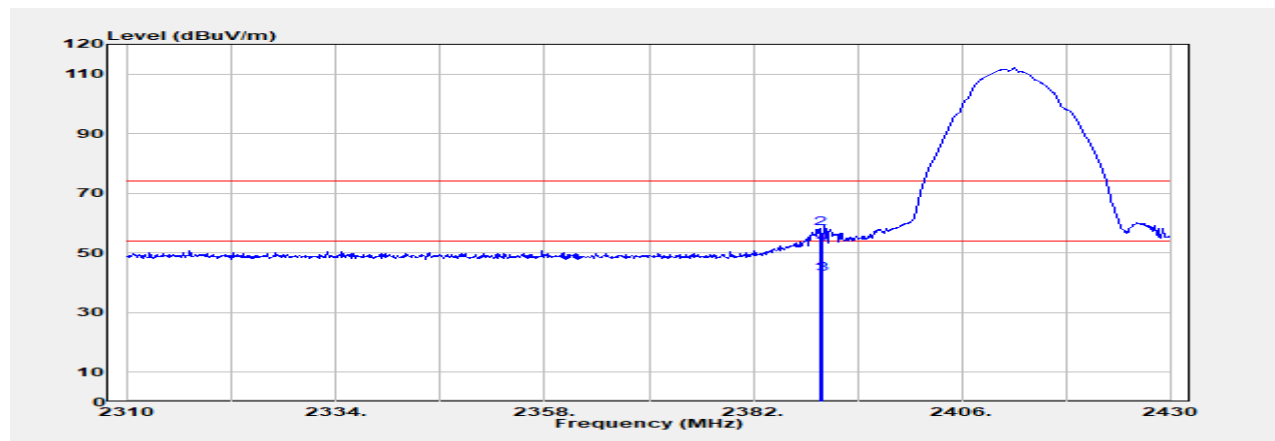
Test Site :SAC G Chamber

Test Date :2023-05-05

Temp./Humi. :21.5/69

Antenna Pol. :Horizontal

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.800	Average	46.34	-3.51	42.83	54.00	-11.17
2389.800	Peak	61.77	-3.51	58.26	74.00	-15.74
2390.000	Average	46.51	-3.51	43.00	54.00	-11.00
2390.000	Peak	56.43	-3.51	52.92	74.00	-21.08

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2462 MHz

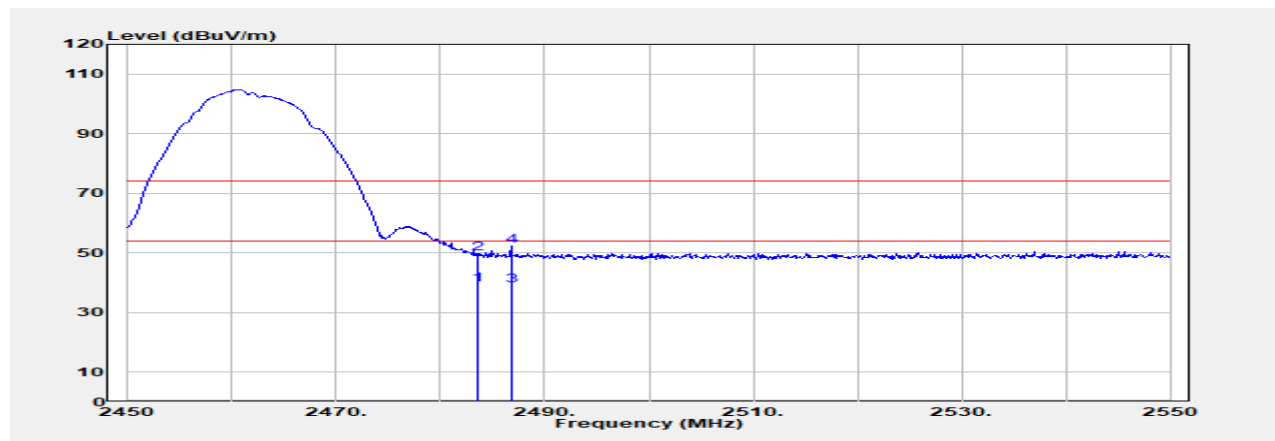
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	42.97	-3.54	39.42	54.00	-14.58
2483.500	Peak	53.31	-3.54	49.77	74.00	-24.23
2486.800	Average	42.63	-3.54	39.09	54.00	-14.91
2486.800	Peak	55.89	-3.54	52.35	74.00	-21.65

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2462 MHz

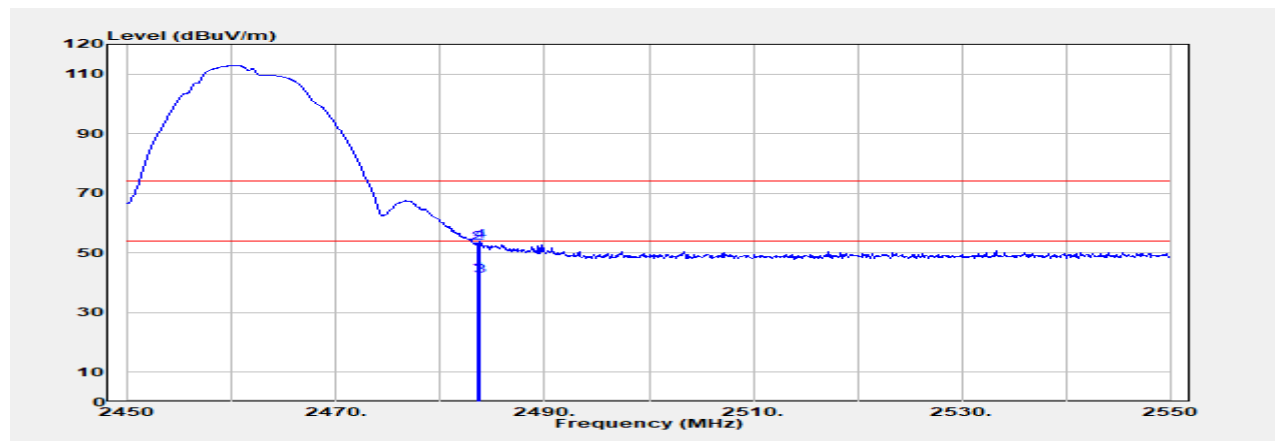
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.59	-3.54	43.05	54.00	-10.95
2483.500	Peak	56.72	-3.54	53.18	74.00	-20.82
2483.800	Average	45.93	-3.54	42.39	54.00	-11.61
2483.800	Peak	57.50	-3.54	53.96	74.00	-20.04

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2412 MHz

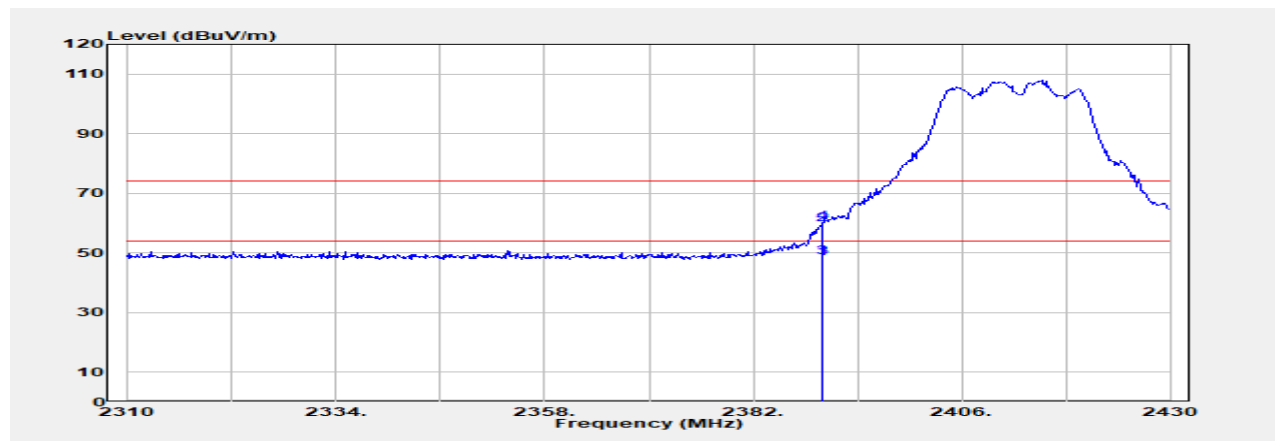
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.920	Average	51.65	-3.51	48.14	54.00	-5.86
2389.920	Peak	62.98	-3.51	59.47	74.00	-14.53
2390.000	Average	51.95	-3.51	48.44	54.00	-5.56
2390.000	Peak	63.63	-3.51	60.12	74.00	-13.88

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2412 MHz

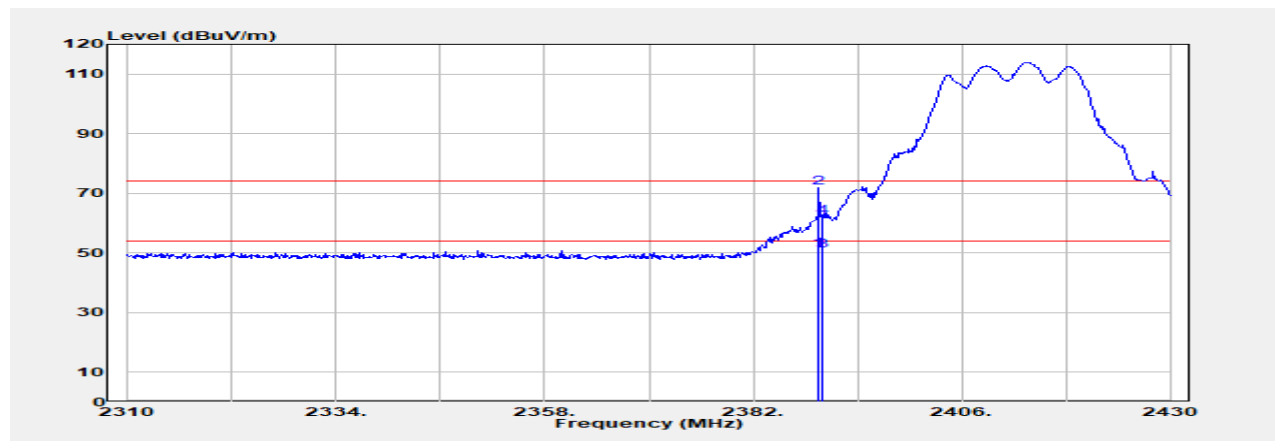
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.560	Average	54.50	-3.51	51.00	54.00	-3.00
2389.560	Peak	75.48	-3.51	71.97	74.00	-2.03
2390.000	Average	54.35	-3.51	50.84	54.00	-3.16
2390.000	Peak	65.67	-3.51	62.16	74.00	-11.84

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2462 MHz

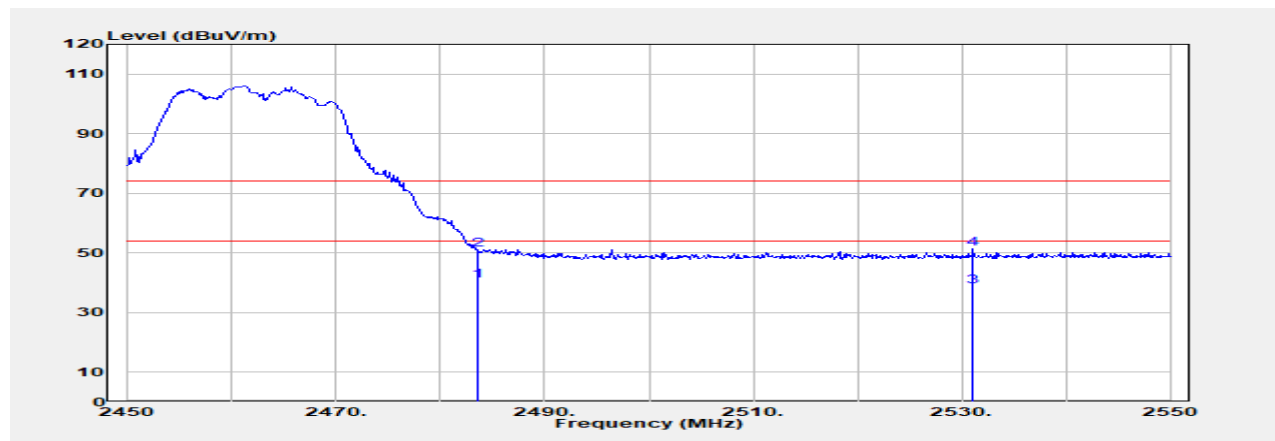
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.30	-3.54	40.76	54.00	-13.24
2483.500	Peak	54.50	-3.54	50.96	74.00	-23.04
2531.100	Average	41.99	-3.33	38.66	54.00	-15.34
2531.100	Peak	54.81	-3.33	51.49	74.00	-22.51

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2462 MHz

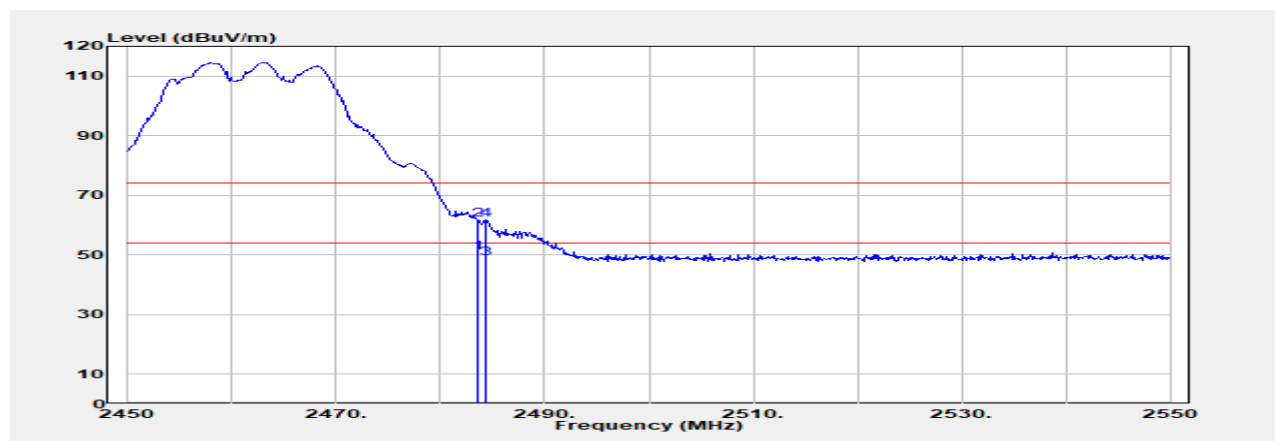
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	54.21	-3.54	50.67	54.00	-3.33
2483.500	Peak	65.26	-3.54	61.72	74.00	-12.28
2484.300	Average	52.32	-3.54	48.78	54.00	-5.22
2484.300	Peak	65.48	-3.54	61.94	74.00	-12.06

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2412 MHz

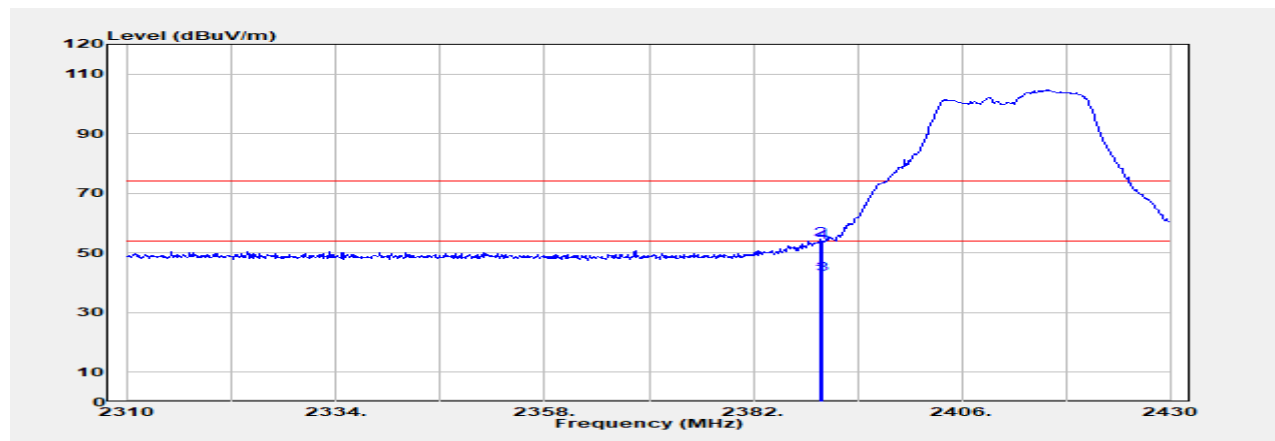
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.800	Average	46.13	-3.51	42.63	54.00	-11.37
2389.800	Peak	58.11	-3.51	54.61	74.00	-19.39
2390.000	Average	46.29	-3.51	42.78	54.00	-11.22
2390.000	Peak	57.05	-3.51	53.54	74.00	-20.46

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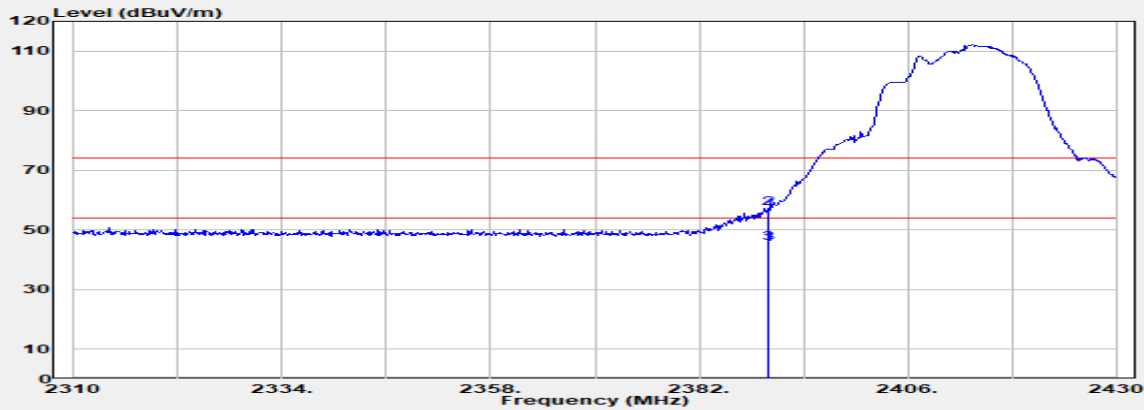
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Report Number :TERF2304000939E2
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2023-05-05
 Temp./Humi. :21.5/69
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2389.920	Average	48.75	-3.51	45.24	54.00	-8.76
2389.920	Peak	60.86	-3.51	57.36	74.00	-16.65
2390.000	Average	48.88	-3.51	45.37	54.00	-8.63
2390.000	Peak	60.21	-3.51	56.70	74.00	-17.30

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2462 MHz

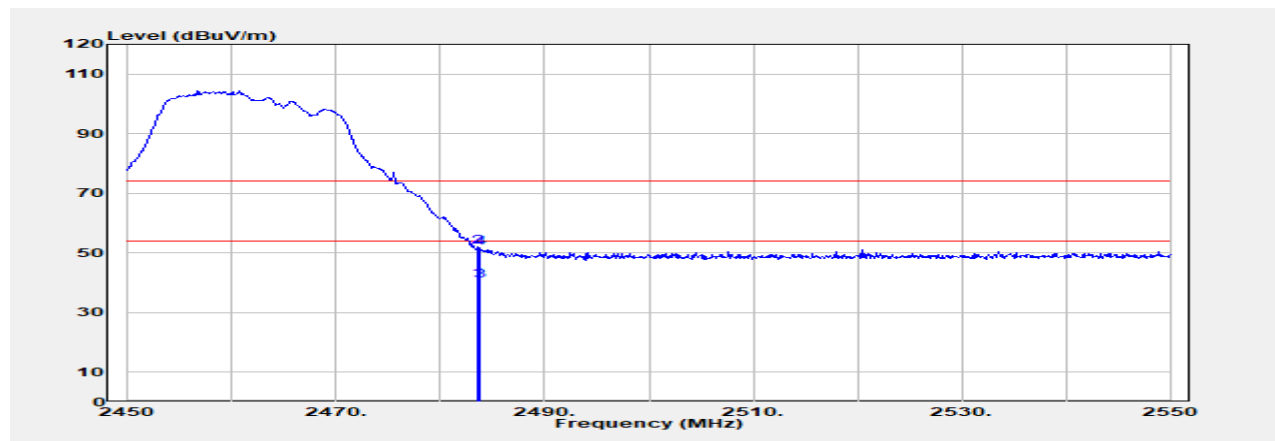
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	44.49	-3.54	40.95	54.00	-13.05
2483.500	Peak	55.68	-3.54	52.14	74.00	-21.86
2483.800	Average	44.15	-3.54	40.61	54.00	-13.39
2483.800	Peak	55.15	-3.54	51.61	74.00	-22.39

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2462 MHz

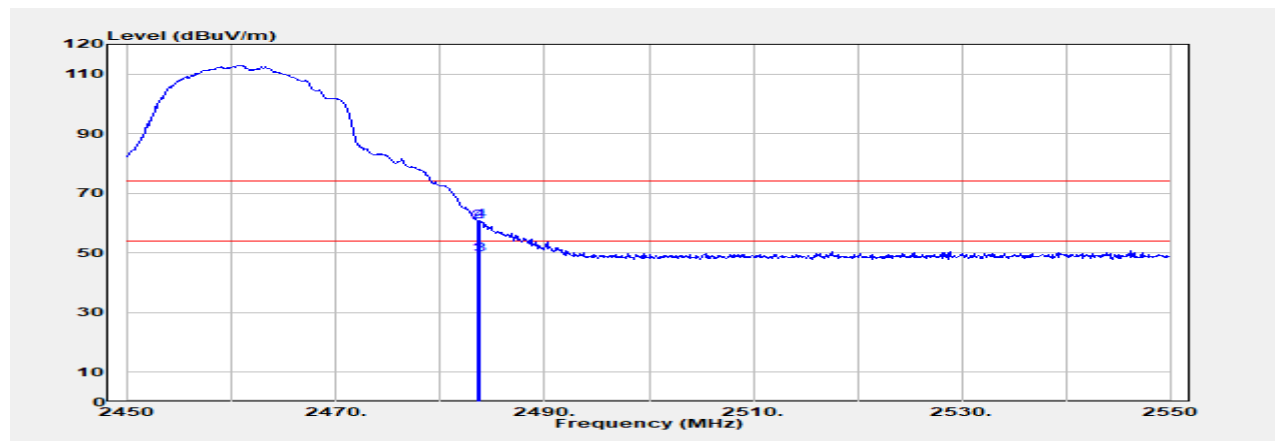
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	53.08	-3.54	49.54	54.00	-4.46
2483.500	Peak	64.07	-3.54	60.52	74.00	-13.48
2483.700	Average	52.85	-3.54	49.31	54.00	-4.69
2483.700	Peak	64.35	-3.54	60.81	74.00	-13.19

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2422 MHz

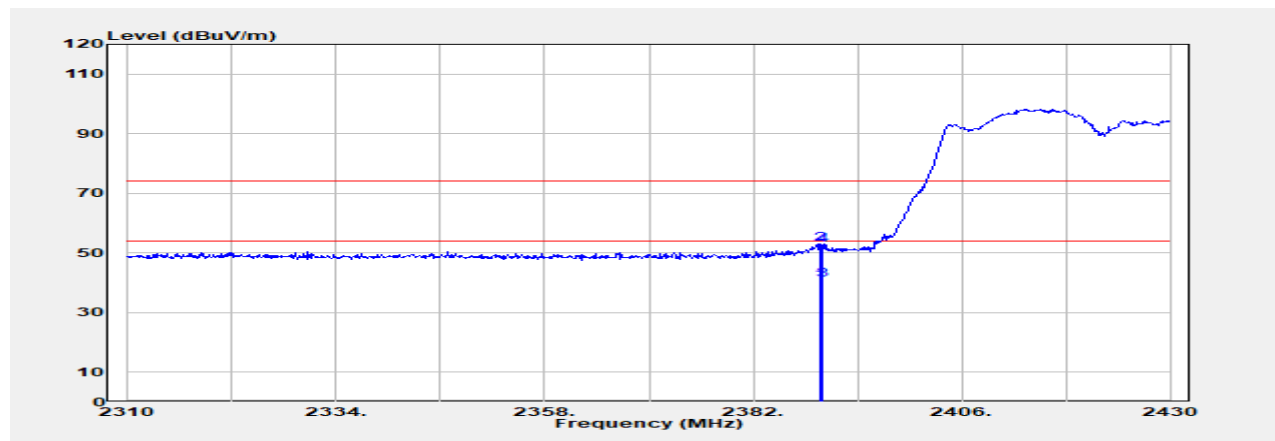
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.680	Average	44.11	-3.51	40.60	54.00	-13.40
2389.680	Peak	56.57	-3.51	53.06	74.00	-20.94
2390.000	Average	44.33	-3.51	40.82	54.00	-13.18
2390.000	Peak	56.06	-3.51	52.55	74.00	-21.45

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Report Number :TERF2304000939E2

Operation Mode :802.11n40

Test Frequency :2422 MHz

Test Mode :Bandedge

EUT Pol :E2 Plane

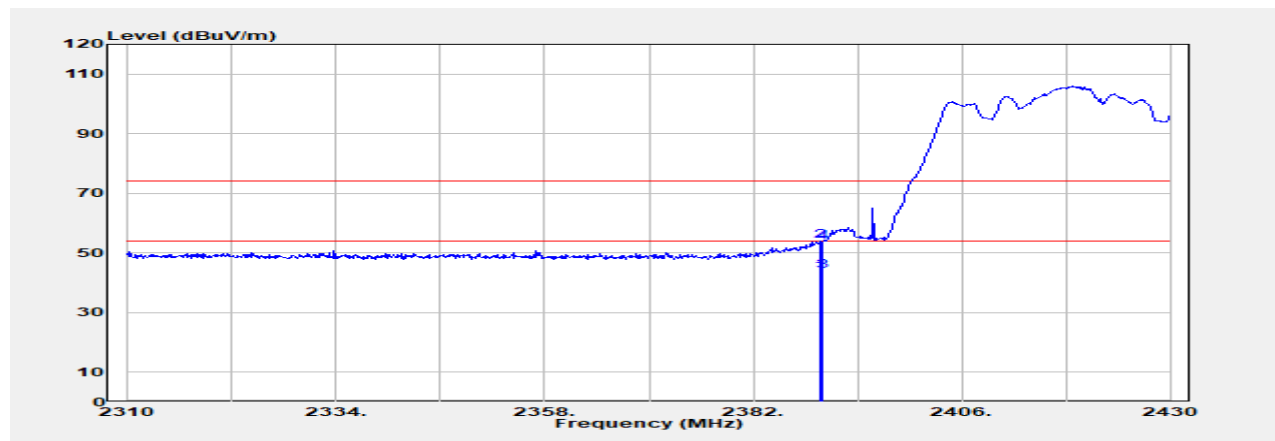
Test Site :SAC G Chamber

Test Date :2023-05-05

Temp./Humi. :21.5/69

Antenna Pol. :Horizontal

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2389.800	Average	47.16	-3.51	43.65	54.00	-10.35
2389.800	Peak	57.40	-3.51	53.89	74.00	-20.11
2390.000	Average	47.25	-3.51	43.75	54.00	-10.25
2390.000	Peak	57.05	-3.51	53.54	74.00	-20.46

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2452 MHz

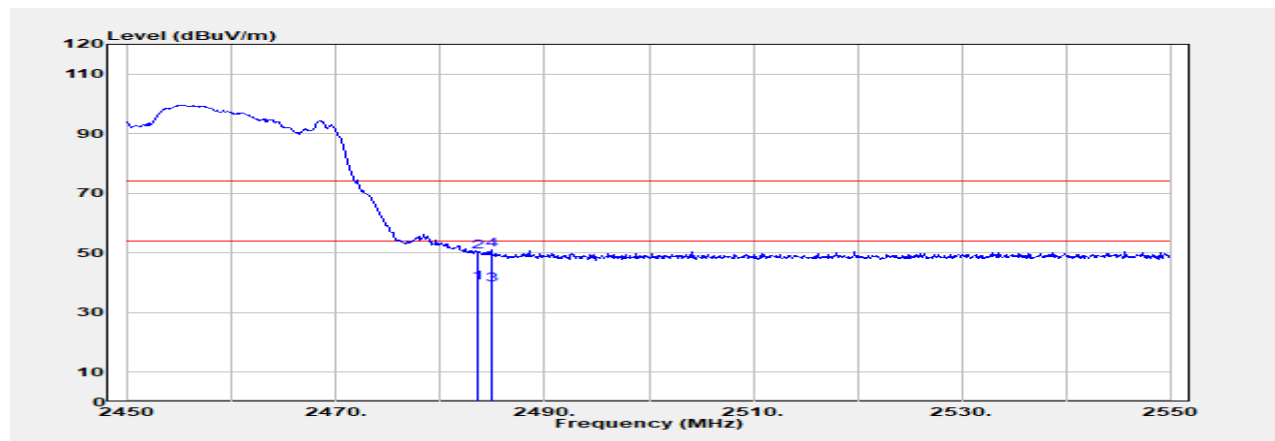
Temp./Humi. :21.5/69

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.45	-3.54	39.91	54.00	-14.09
2483.500	Peak	53.85	-3.54	50.31	74.00	-23.69
2484.900	Average	42.85	-3.54	39.31	54.00	-14.69
2484.900	Peak	54.63	-3.54	51.09	74.00	-22.91

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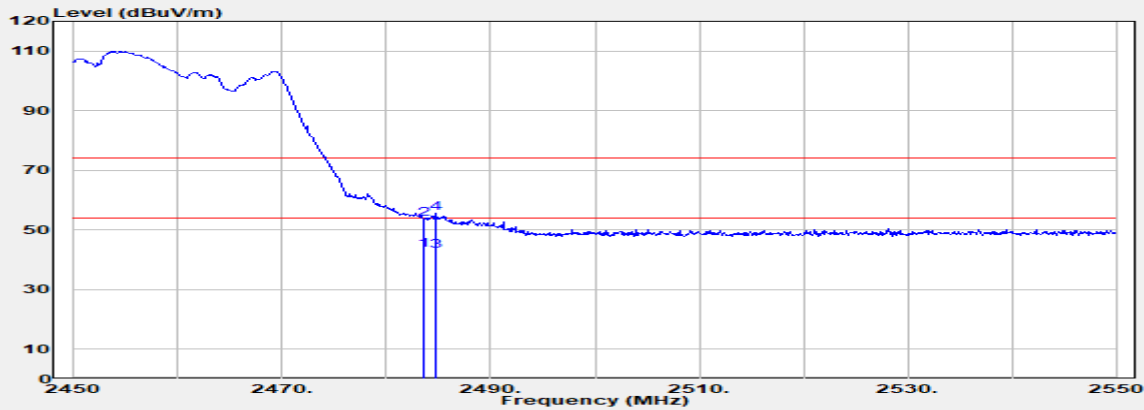
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Report Number :TERF2304000939E2
Operation Mode :802.11n40
Test Frequency :2452 MHz
Test Mode :Bandedge
EUT Pol :E2 Plane

Test Site :SAC G Chamber
Test Date :2023-05-05
Temp./Humi. :21.5/69
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	46.78	-3.54	43.24	54.00	-10.76
2483.500	Peak	57.15	-3.54	53.61	74.00	-20.39
2484.700	Average	46.43	-3.54	42.89	54.00	-11.11
2484.700	Peak	59.01	-3.54	55.47	74.00	-18.53

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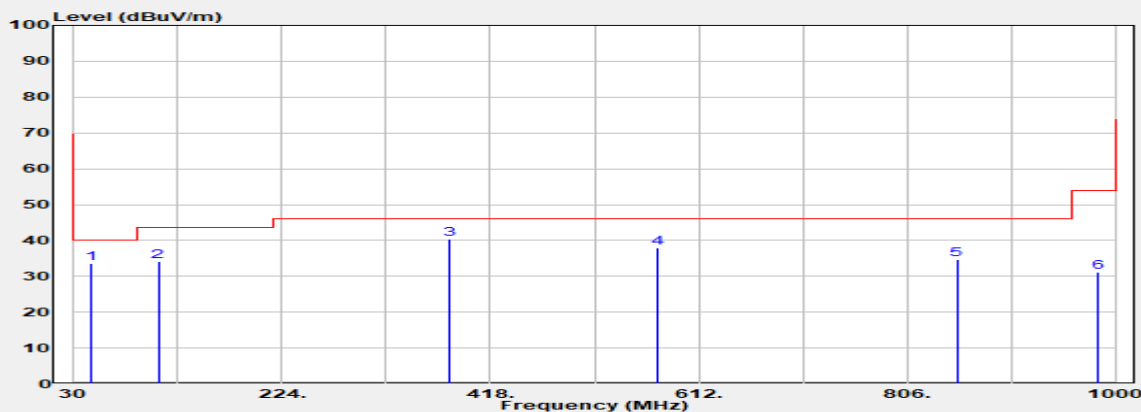
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11.6.2 Spurious Emission:

P84

Report Number :TERF2304000939E2
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2023-05-09
 Temp./Humi. :20.7/69
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
46.490	QP	46.30	-12.58	33.72	40.00	-6.28
108.570	Peak	50.45	-16.30	34.15	43.50	-9.35
379.200	Peak	50.07	-9.78	40.30	46.00	-5.70
574.170	Peak	43.63	-5.71	37.93	46.00	-8.07
852.560	Peak	36.14	-1.46	34.68	46.00	-11.32
984.480	Peak	30.31	0.80	31.11	54.00	-22.89

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-09

Test Frequency :2437 MHz

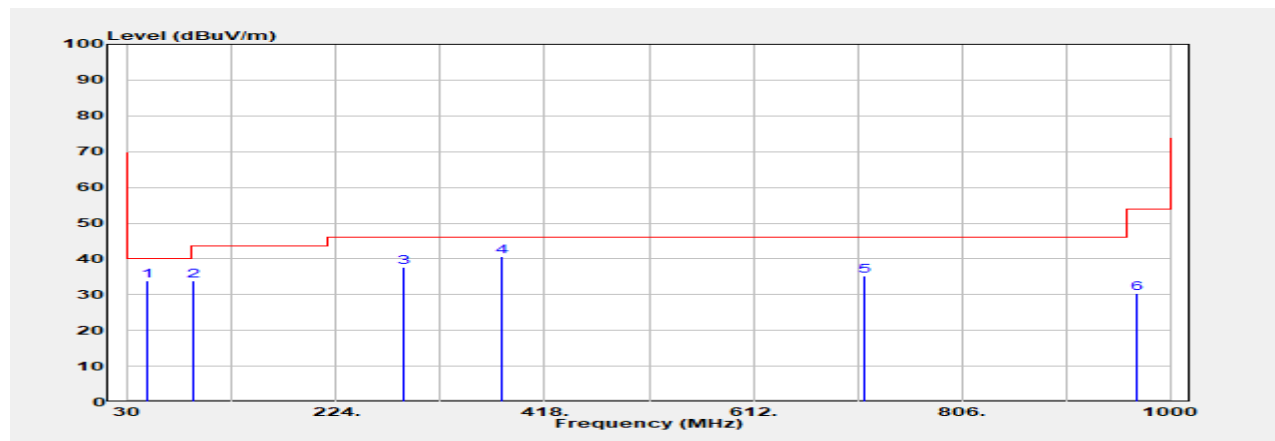
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
48.430	Peak	46.35	-12.44	33.91	40.00	-6.09
91.110	Peak	52.22	-18.34	33.88	43.50	-9.62
286.080	Peak	50.00	-12.24	37.77	46.00	-8.23
378.230	Peak	50.52	-9.82	40.70	46.00	-5.30
715.790	Peak	38.73	-3.46	35.27	46.00	-10.73
968.960	Peak	29.51	0.91	30.42	54.00	-23.58

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-09

Test Frequency :2437 MHz

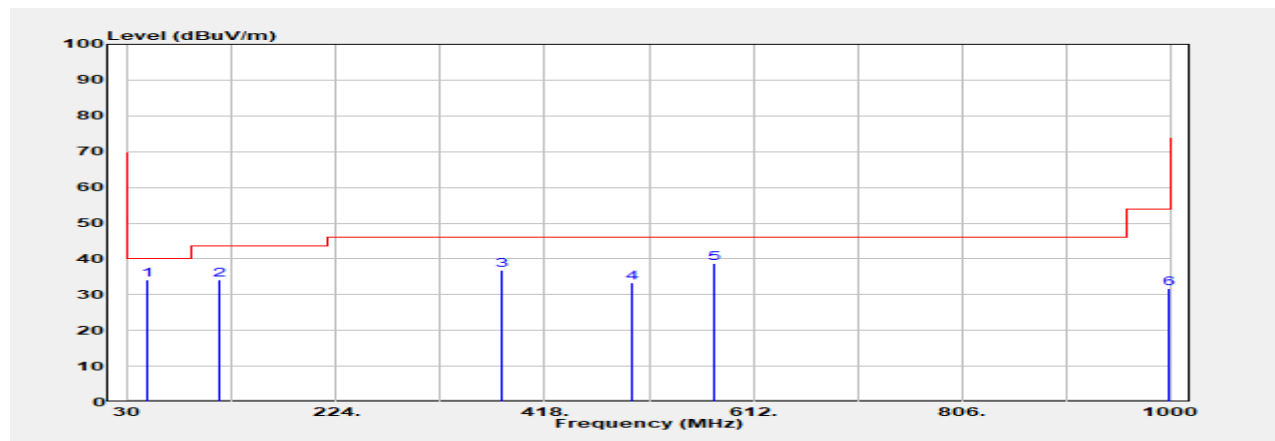
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
47.460	QP	46.70	-12.59	34.11	40.00	-5.89
115.360	Peak	49.82	-15.75	34.07	43.50	-9.43
378.230	Peak	46.63	-9.82	36.82	46.00	-9.18
499.480	Peak	40.94	-7.54	33.39	46.00	-12.61
575.140	Peak	44.28	-5.66	38.62	46.00	-7.38
998.060	Peak	31.22	0.53	31.75	54.00	-22.25

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-09

Test Frequency :2437 MHz

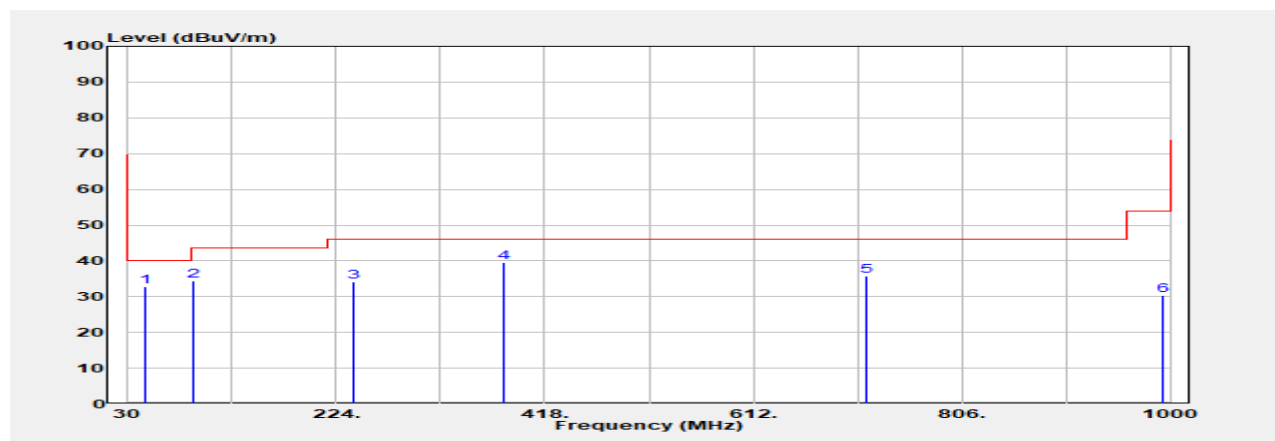
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
46.490	Peak	45.48	-12.58	32.90	40.00	-7.10
91.110	Peak	52.72	-18.34	34.37	43.50	-9.13
239.520	Peak	48.21	-14.14	34.08	46.00	-11.92
379.200	Peak	49.45	-9.78	39.68	46.00	-6.32
717.730	Peak	39.12	-3.43	35.70	46.00	-10.30
994.180	Peak	29.73	0.64	30.37	54.00	-23.63

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2412 MHz

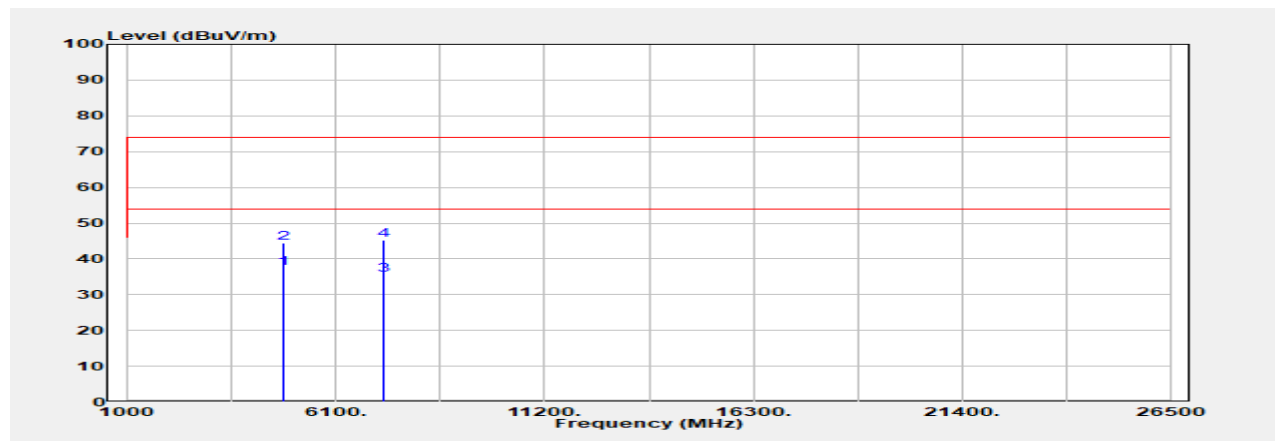
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	34.17	3.28	37.45	54.00	-16.55
4824.000	Peak	41.18	3.28	44.46	74.00	-29.54
7236.000	Average	27.02	8.54	35.56	54.00	-18.44
7236.000	Peak	36.79	8.54	45.33	74.00	-28.67

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2412 MHz

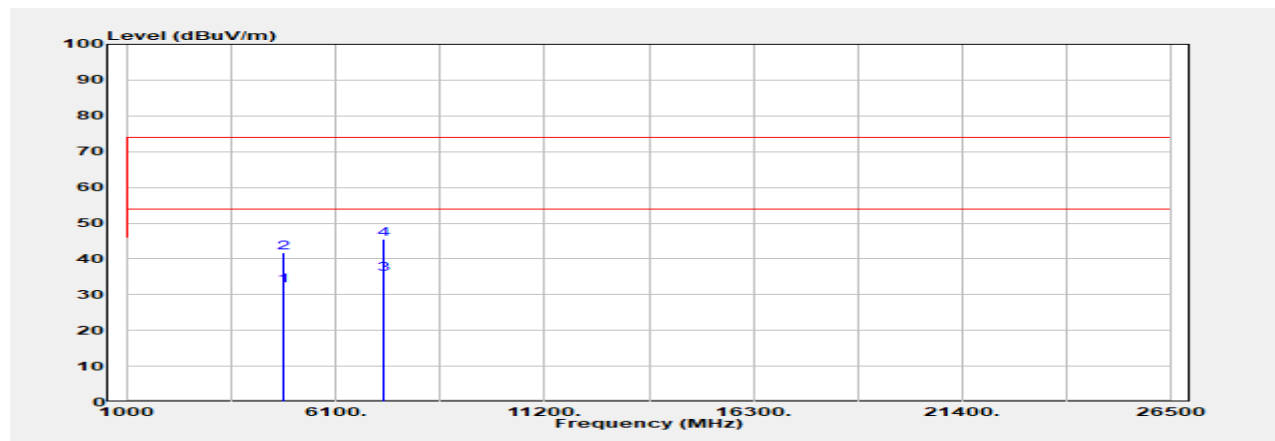
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	29.36	3.28	32.65	54.00	-21.35
4824.000	Peak	38.34	3.28	41.62	74.00	-32.38
7236.000	Average	27.13	8.54	35.67	54.00	-18.33
7236.000	Peak	36.94	8.54	45.47	74.00	-28.53

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2437 MHz

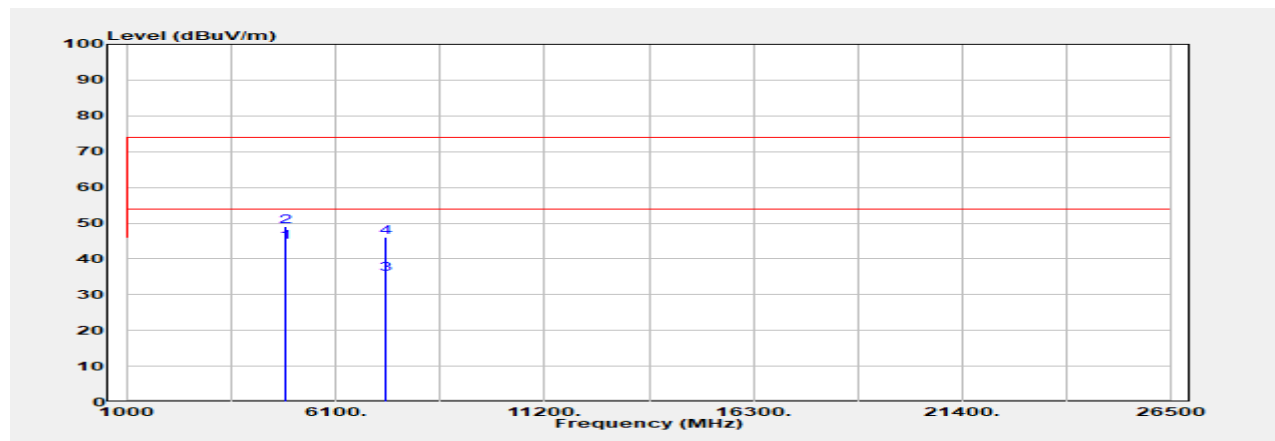
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	41.35	3.35	44.70	54.00	-9.30
4874.000	Peak	45.58	3.35	48.94	74.00	-25.06
7311.000	Average	27.23	8.58	35.80	54.00	-18.20
7311.000	Peak	37.56	8.58	46.14	74.00	-27.86

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2437 MHz

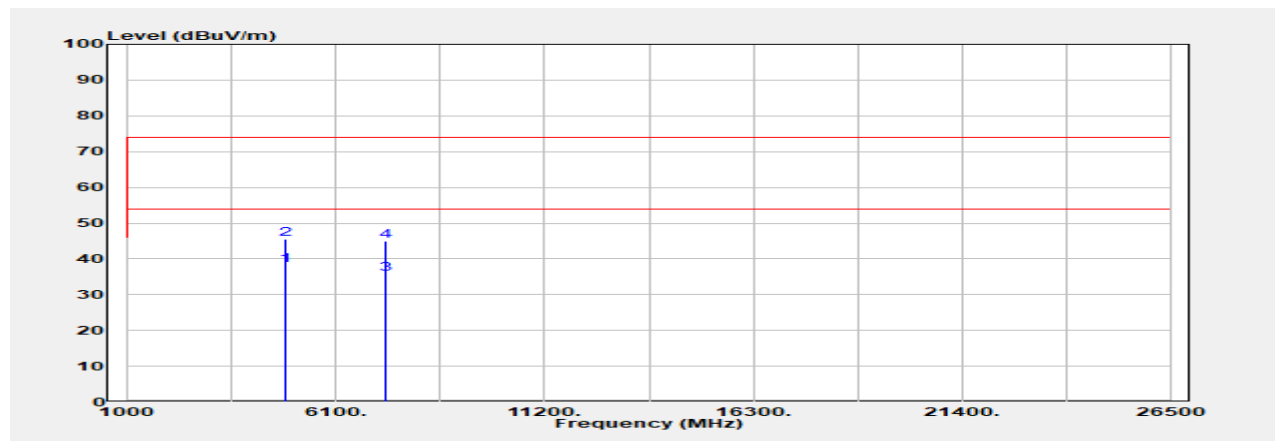
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	34.92	3.35	38.27	54.00	-15.73
4874.000	Peak	42.18	3.35	45.54	74.00	-28.46
7311.000	Average	27.14	8.58	35.72	54.00	-18.28
7311.000	Peak	36.51	8.58	45.09	74.00	-28.91

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2462 MHz

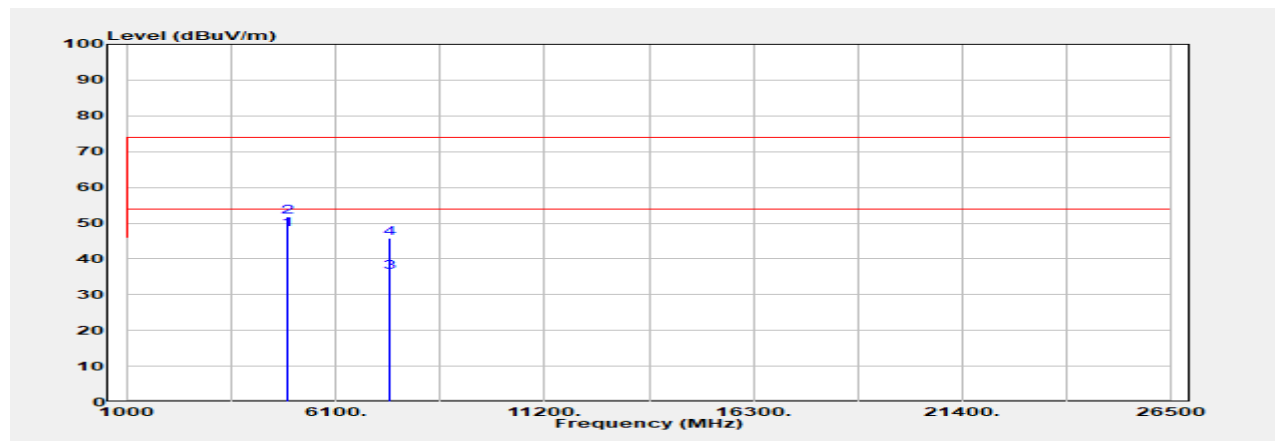
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	44.89	3.46	48.35	54.00	-5.65
4924.000	Peak	48.19	3.46	51.65	74.00	-22.35
7386.000	Average	27.20	9.03	36.23	54.00	-17.77
7386.000	Peak	36.84	9.03	45.87	74.00	-28.13

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-05

Test Frequency :2462 MHz

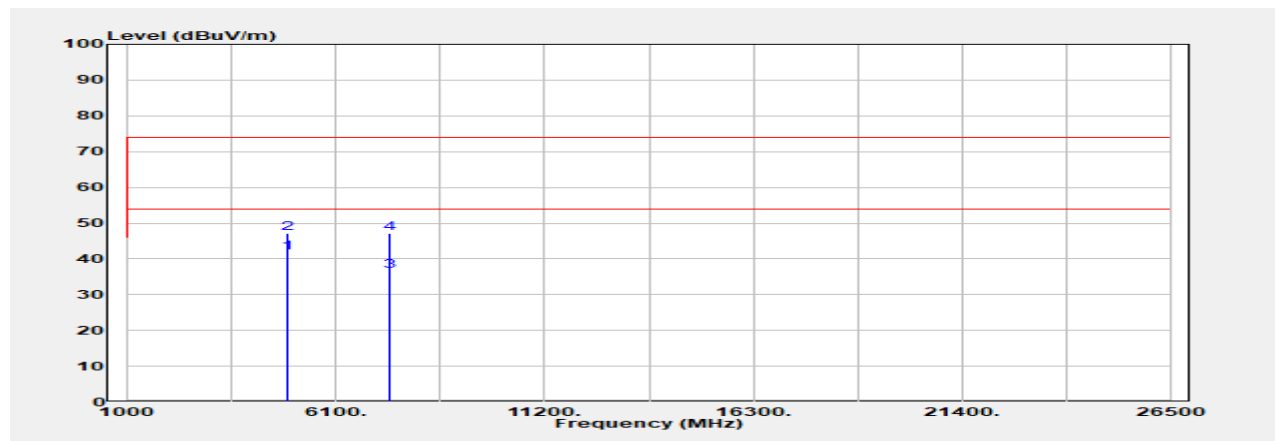
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	38.17	3.46	41.63	54.00	-12.37
4924.000	Peak	43.68	3.46	47.14	74.00	-26.86
7386.000	Average	27.42	9.03	36.45	54.00	-17.55
7386.000	Peak	37.99	9.03	47.02	74.00	-26.98

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2412 MHz

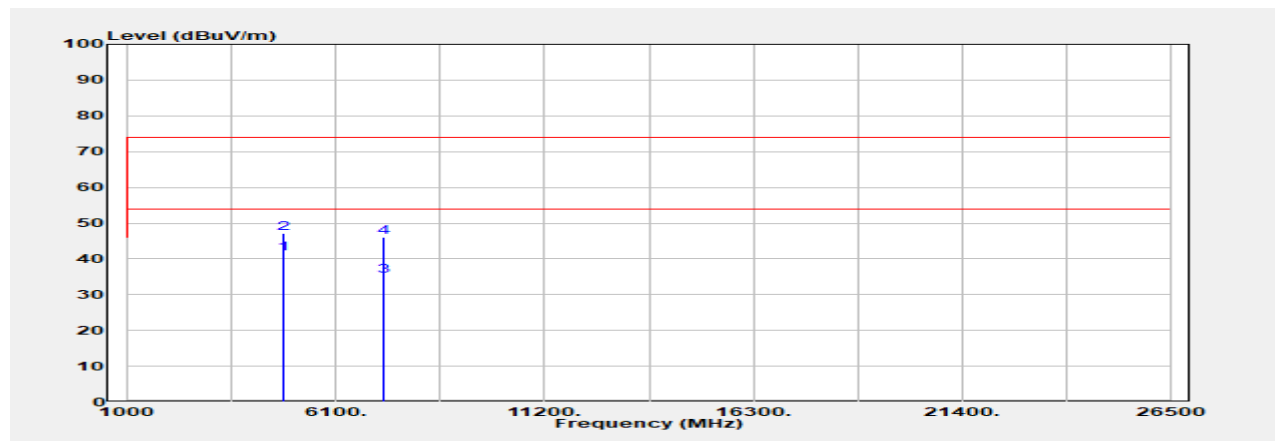
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	38.13	3.28	41.42	54.00	-12.58
4824.000	Peak	43.91	3.28	47.19	74.00	-26.81
7236.000	Average	26.63	8.54	35.17	54.00	-18.83
7236.000	Peak	37.55	8.54	46.09	74.00	-27.91

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2412 MHz

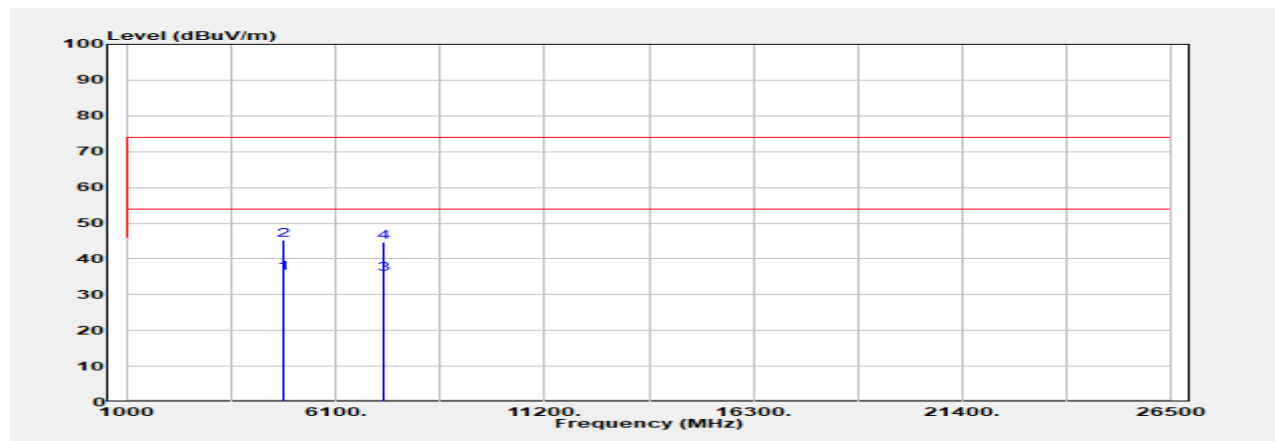
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	32.72	3.28	36.00	54.00	-18.00
4824.000	Peak	41.97	3.28	45.25	74.00	-28.75
7236.000	Average	27.13	8.54	35.67	54.00	-18.33
7236.000	Peak	36.27	8.54	44.81	74.00	-29.19

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2437 MHz

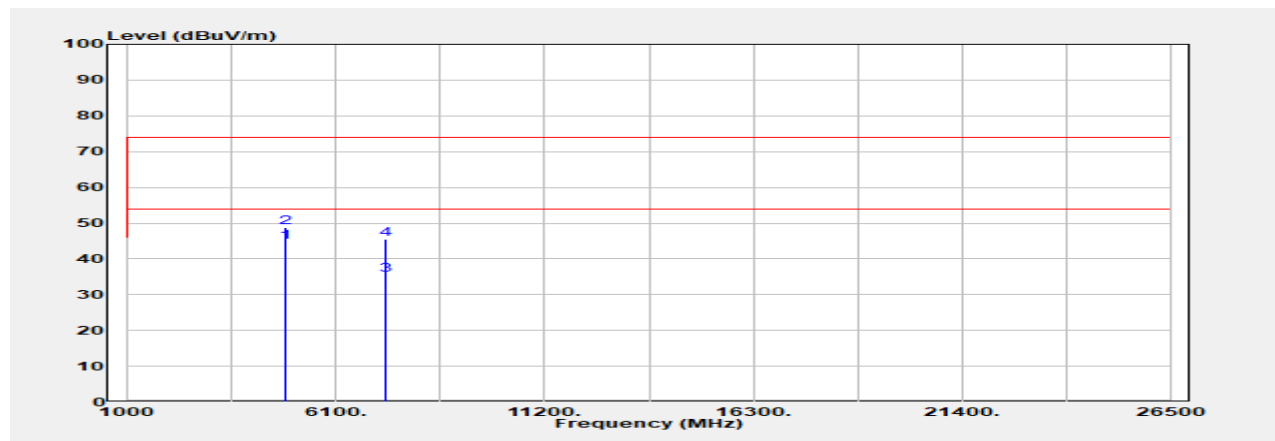
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	41.41	3.35	44.76	54.00	-9.24
4874.000	Peak	45.38	3.35	48.73	74.00	-25.27
7311.000	Average	26.97	8.58	35.55	54.00	-18.45
7311.000	Peak	36.97	8.58	45.55	74.00	-28.45

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2437 MHz

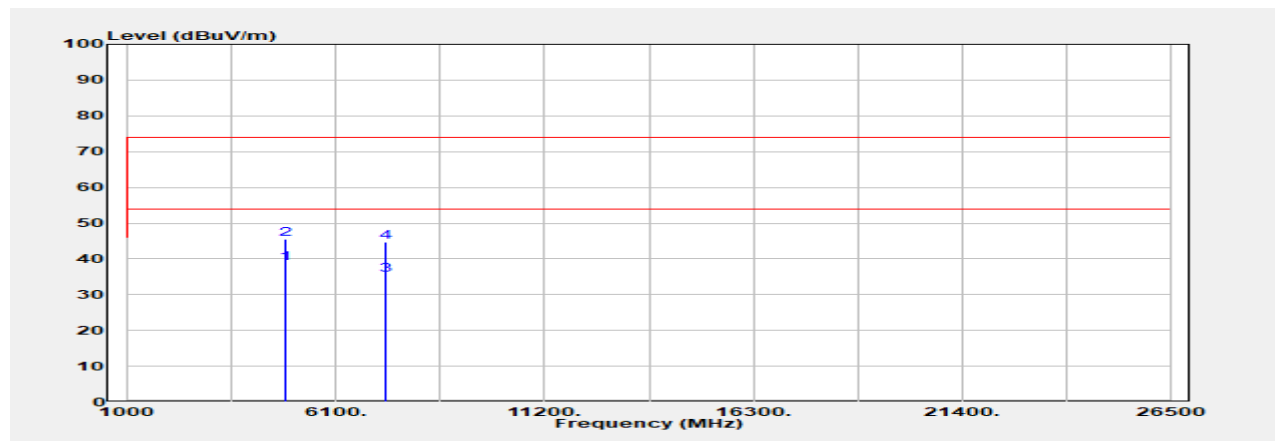
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	35.43	3.35	38.79	54.00	-15.21
4874.000	Peak	42.10	3.35	45.46	74.00	-28.54
7311.000	Average	27.04	8.58	35.62	54.00	-18.38
7311.000	Peak	36.17	8.58	44.75	74.00	-29.25

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2462 MHz

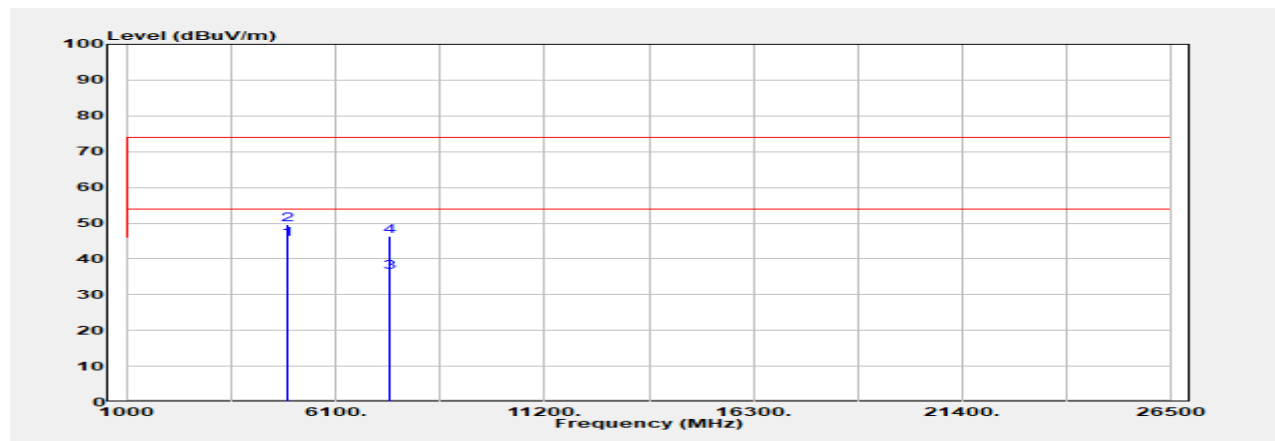
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	42.01	3.46	45.47	54.00	-8.53
4924.000	Peak	46.22	3.46	49.69	74.00	-24.31
7386.000	Average	27.32	9.03	36.35	54.00	-17.65
7386.000	Peak	37.39	9.03	46.42	74.00	-27.58

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-05

Test Frequency :2462 MHz

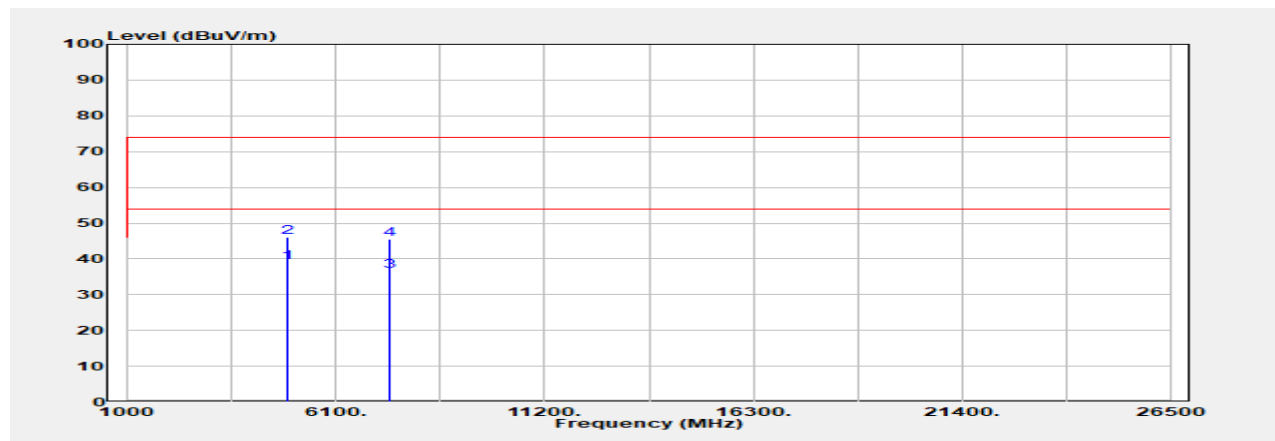
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	35.69	3.46	39.16	54.00	-14.84
4924.000	Peak	42.60	3.46	46.07	74.00	-27.93
7386.000	Average	27.48	9.03	36.51	54.00	-17.49
7386.000	Peak	36.52	9.03	45.56	74.00	-28.44

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2412 MHz

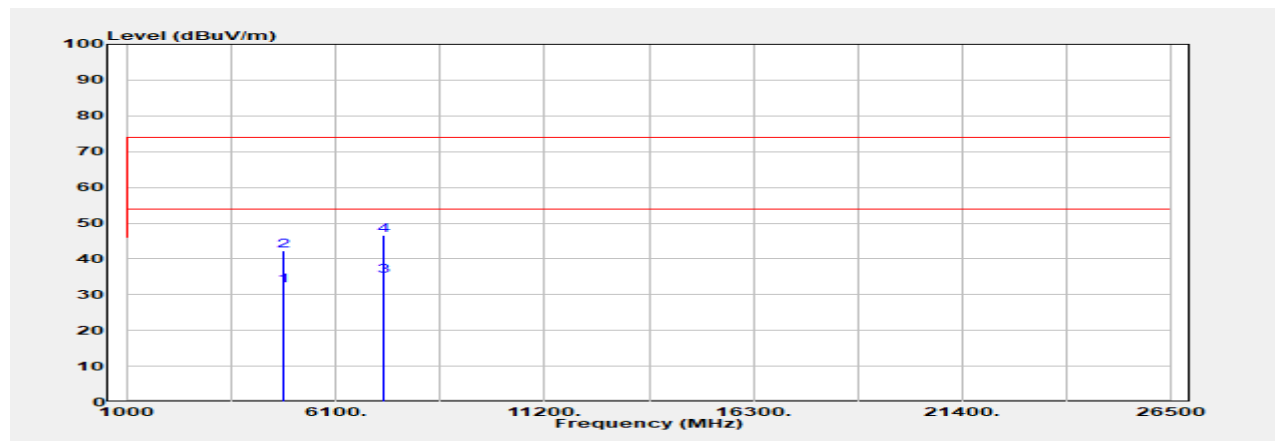
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	29.37	3.28	32.65	54.00	-21.35
4824.000	Peak	38.94	3.28	42.23	74.00	-31.77
7236.000	Average	26.75	8.54	35.29	54.00	-18.71
7236.000	Peak	38.17	8.54	46.71	74.00	-27.29

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Report Number :TERF2304000939E2

Operation Mode :802.11n20

Test Frequency :2412 MHz

Test Mode :Tx

EUT Pol :E2 Plane

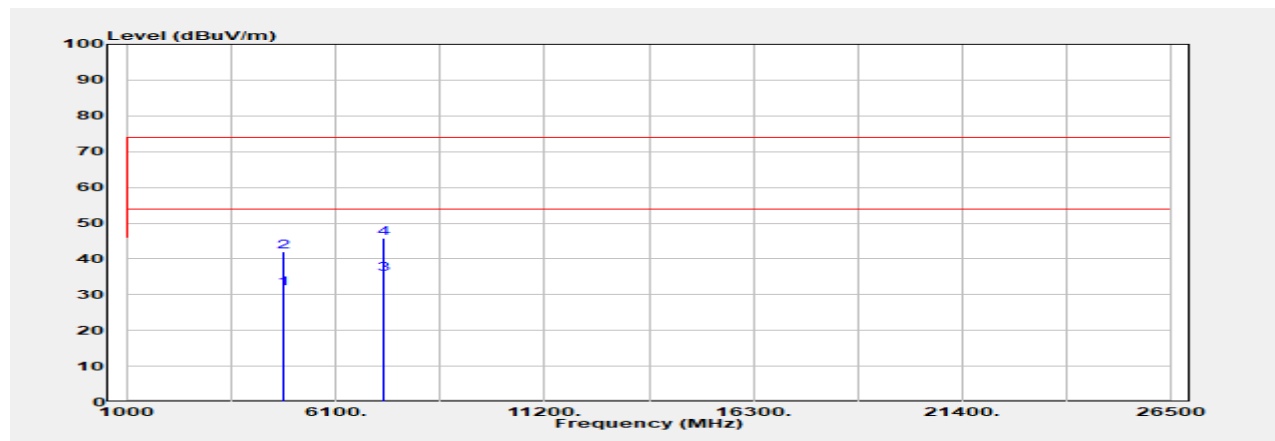
Test Site :SAC G Chamber

Test Date :2023-05-05

Temp./Humi. :21.5/69

Antenna Pol. :Horizontal

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	28.43	3.28	31.71	54.00	-22.29
4824.000	Peak	38.83	3.28	42.11	74.00	-31.89
7236.000	Average	27.14	8.54	35.68	54.00	-18.32
7236.000	Peak	37.14	8.54	45.68	74.00	-28.32

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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Member of SGS Group

Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2437 MHz

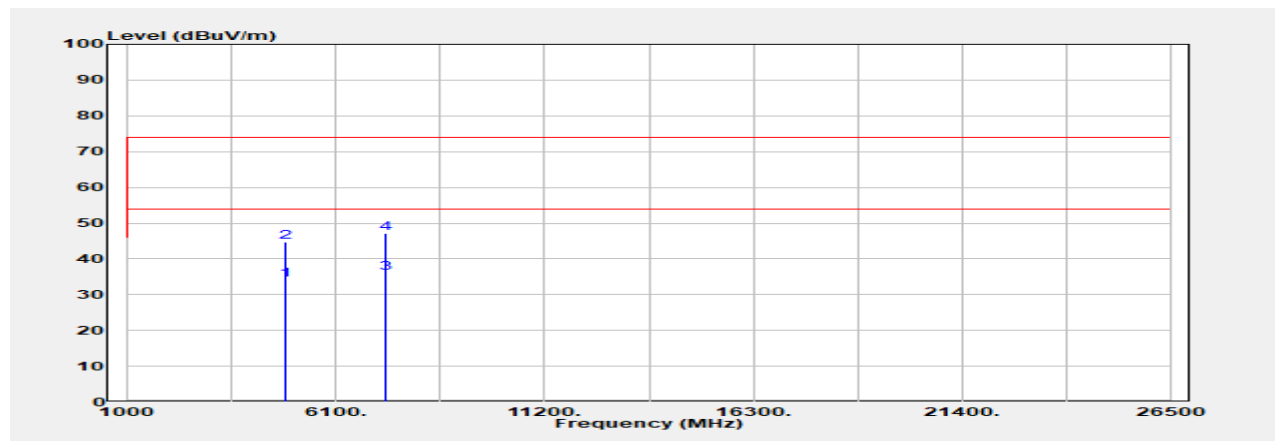
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	30.73	3.35	34.08	54.00	-19.92
4874.000	Peak	41.26	3.35	44.61	74.00	-29.39
7311.000	Average	27.37	8.58	35.95	54.00	-18.05
7311.000	Peak	38.54	8.58	47.12	74.00	-26.88

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2437 MHz

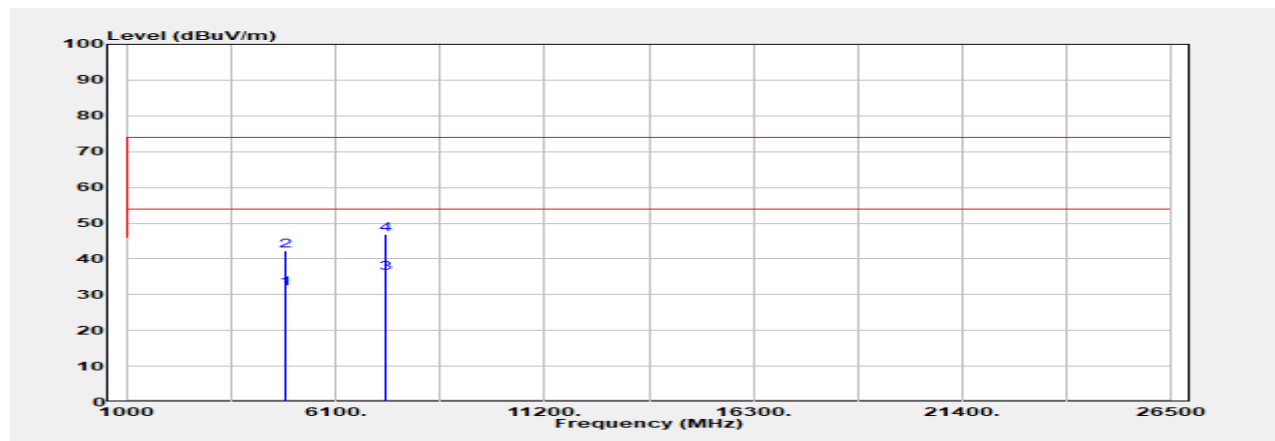
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	28.28	3.35	31.63	54.00	-22.37
4874.000	Peak	38.93	3.35	42.28	74.00	-31.72
7311.000	Average	27.41	8.58	35.99	54.00	-18.01
7311.000	Peak	38.30	8.58	46.87	74.00	-27.13

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2462 MHz

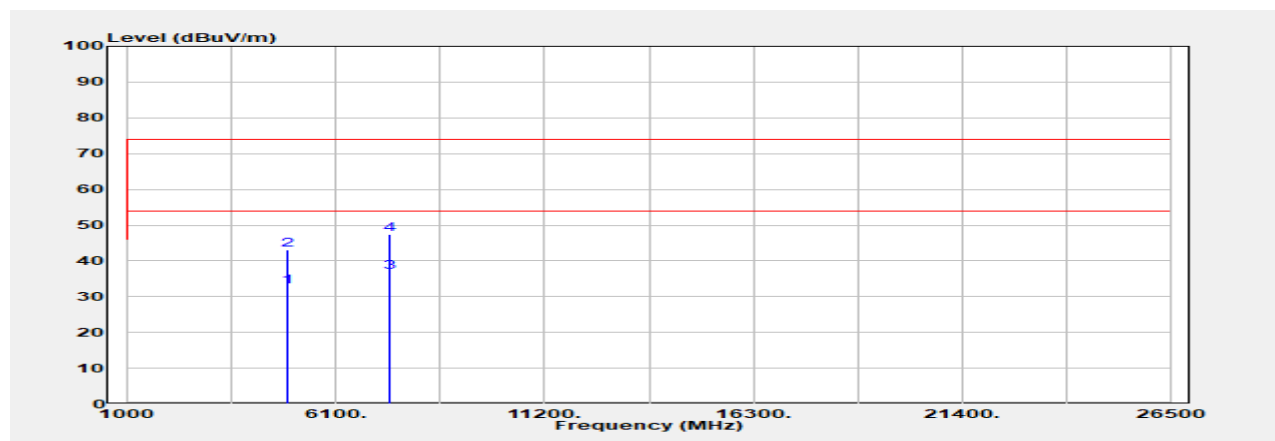
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	29.31	3.46	32.78	54.00	-21.22
4924.000	Peak	39.60	3.46	43.06	74.00	-30.94
7386.000	Average	27.71	9.03	36.74	54.00	-17.26
7386.000	Peak	38.42	9.03	47.45	74.00	-26.55

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-05

Test Frequency :2462 MHz

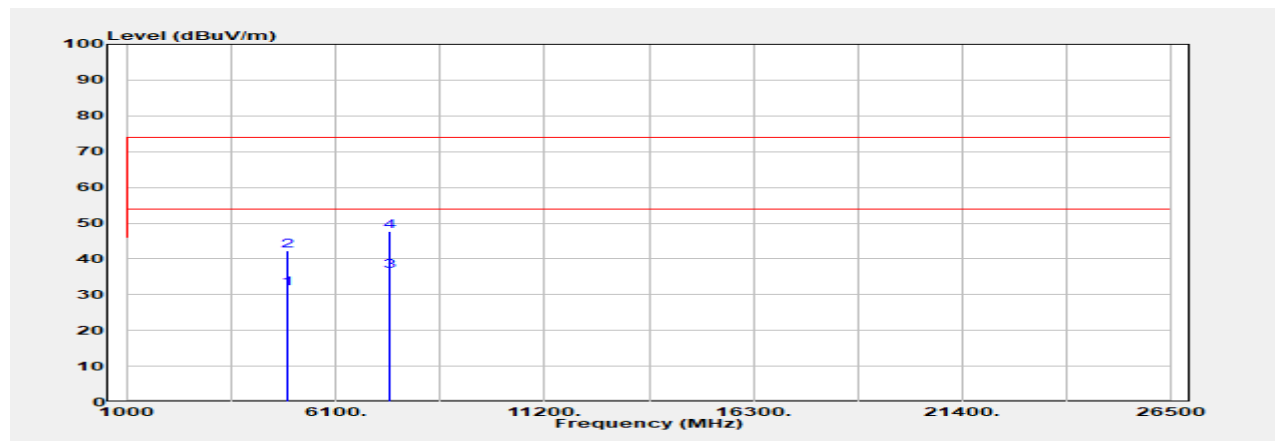
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	28.22	3.46	31.69	54.00	-22.31
4924.000	Peak	38.83	3.46	42.29	74.00	-31.71
7386.000	Average	27.58	9.03	36.62	54.00	-17.38
7386.000	Peak	38.57	9.03	47.60	74.00	-26.40

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2422 MHz

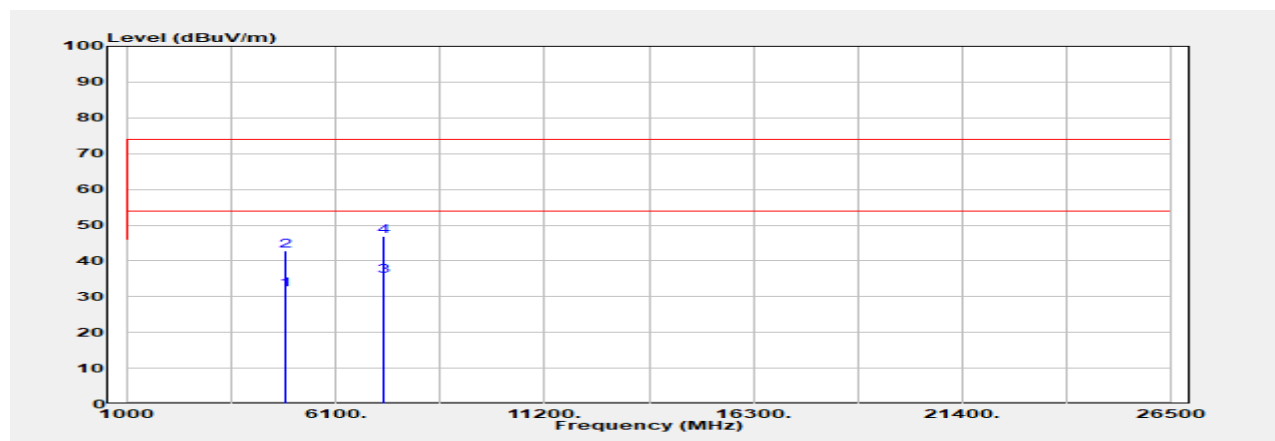
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4844.000	Average	28.78	3.31	32.09	54.00	-21.91
4844.000	Peak	39.50	3.31	42.82	74.00	-31.18
7266.000	Average	27.25	8.53	35.78	54.00	-18.22
7266.000	Peak	38.42	8.53	46.95	74.00	-27.05

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2422 MHz

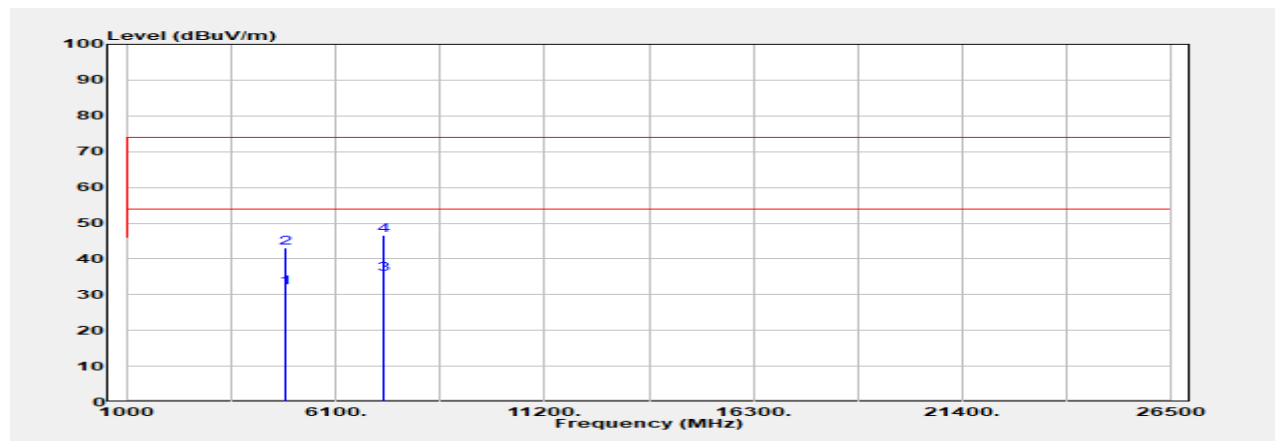
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.000	Average	28.65	3.31	31.96	54.00	-22.04
4844.000	Peak	39.65	3.31	42.96	74.00	-31.04
7266.000	Average	27.24	8.53	35.78	54.00	-18.22
7266.000	Peak	37.98	8.53	46.52	74.00	-27.48

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2437 MHz

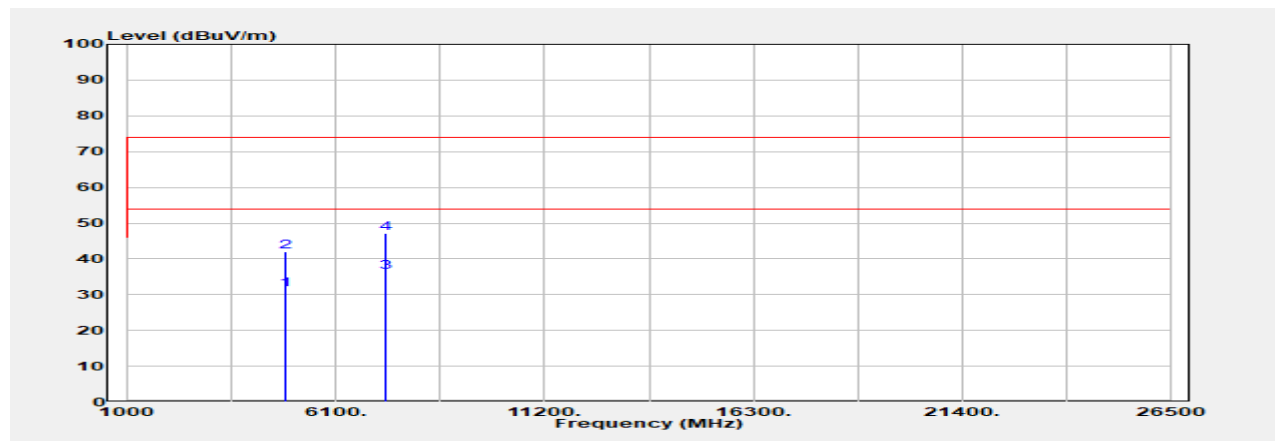
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	28.15	3.35	31.50	54.00	-22.50
4874.000	Peak	38.74	3.35	42.09	74.00	-31.91
7311.000	Average	27.67	8.58	36.24	54.00	-17.76
7311.000	Peak	38.50	8.58	47.08	74.00	-26.92

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2437 MHz

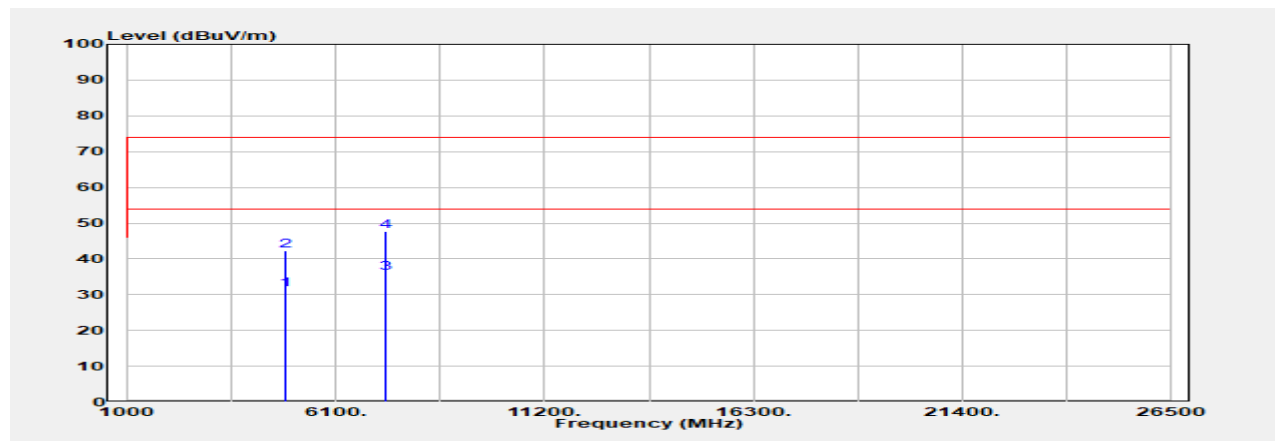
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	27.98	3.35	31.34	54.00	-22.66
4874.000	Peak	39.05	3.35	42.40	74.00	-31.60
7311.000	Average	27.43	8.58	36.00	54.00	-18.00
7311.000	Peak	39.18	8.58	47.76	74.00	-26.24

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2452 MHz

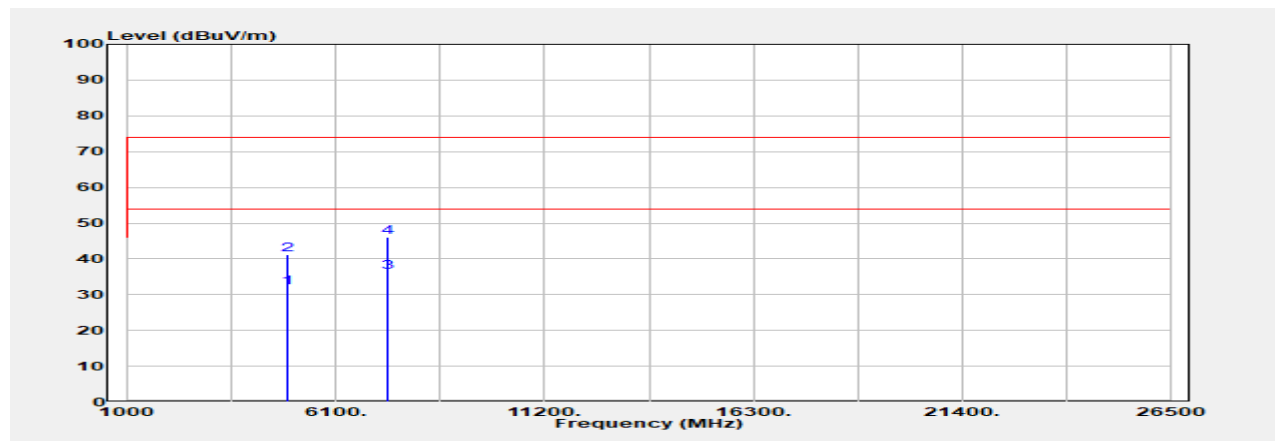
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS	@3m			
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4904.000	Average	28.65	3.40	32.05	54.00	-21.95
4904.000	Peak	37.78	3.40	41.18	74.00	-32.82
7356.000	Average	27.43	8.88	36.31	54.00	-17.69
7356.000	Peak	37.17	8.88	46.05	74.00	-27.95

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-05

Test Frequency :2452 MHz

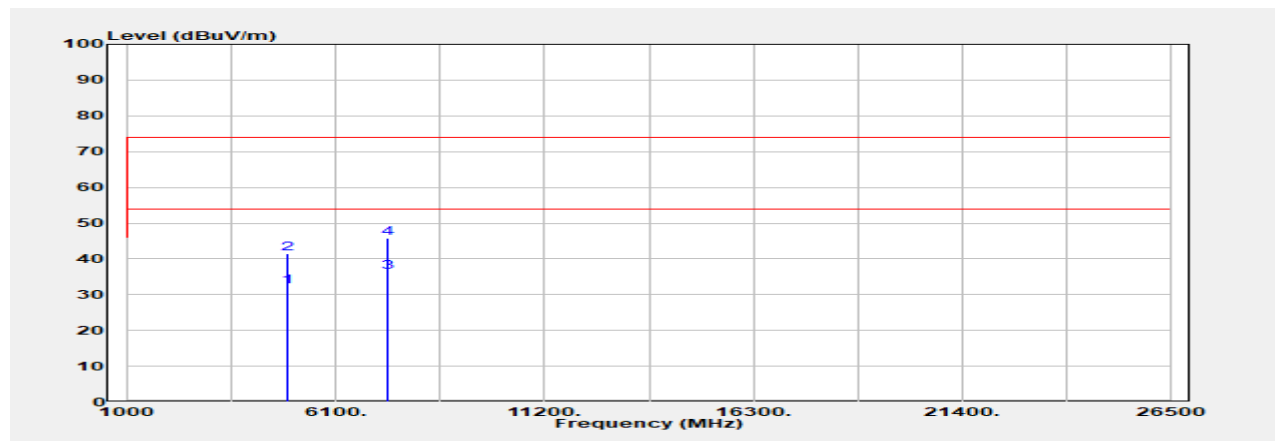
Temp./Humi. :21.5/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.000	Average	28.97	3.40	32.37	54.00	-21.63
4904.000	Peak	38.03	3.40	41.43	74.00	-32.57
7356.000	Average	27.44	8.88	36.32	54.00	-17.68
7356.000	Peak	36.98	8.88	45.86	74.00	-28.14

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P94

Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-09

Test Frequency :2412 MHz

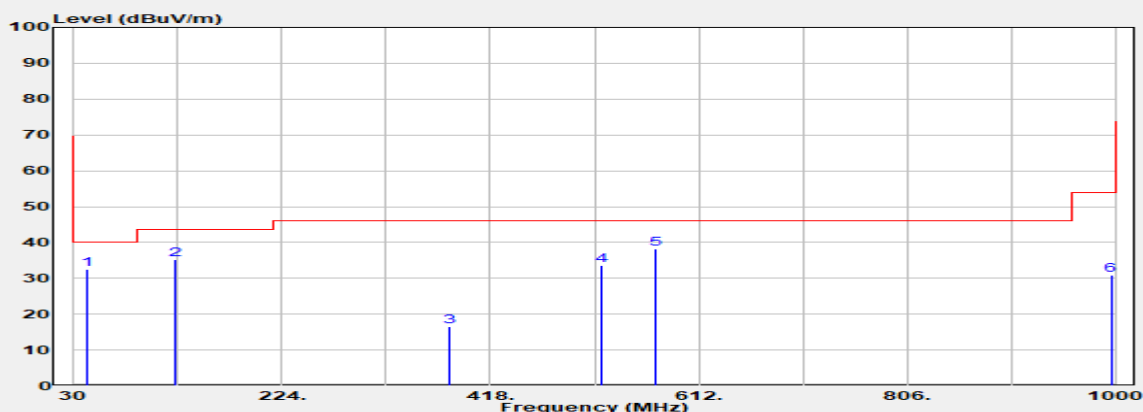
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level		FS	@3m		
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
41.640	QP	45.90	-13.26	32.64	40.00	-7.36
124.090	Peak	50.40	-15.17	35.23	43.50	-8.27
379.200	QP	26.30	-9.78	16.52	46.00	-29.48
520.820	Peak	40.48	-6.99	33.48	46.00	-12.52
572.230	Peak	44.14	-5.80	38.33	46.00	-7.67
996.120	Peak	30.28	0.59	30.87	54.00	-23.13

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-09

Test Frequency :2412 MHz

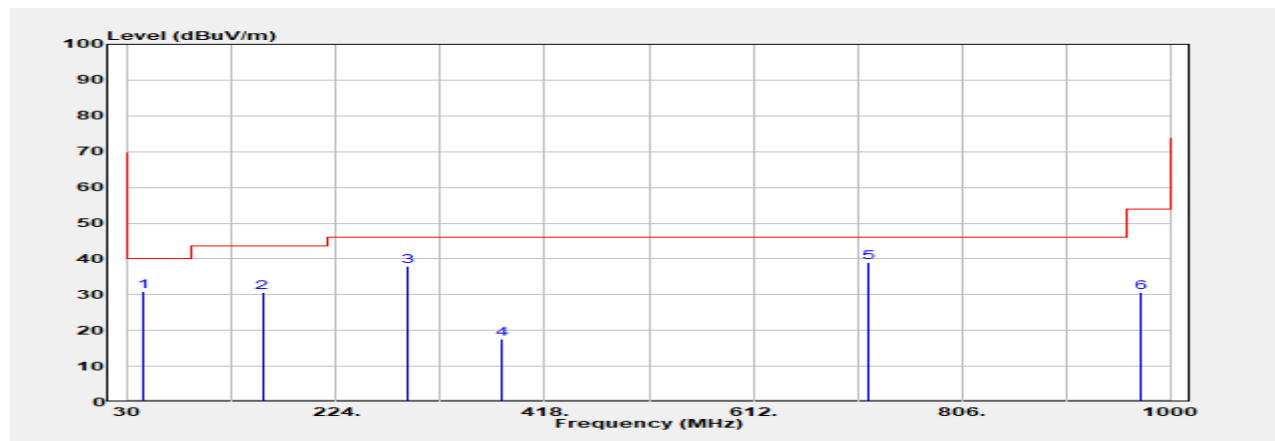
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
43.580	Peak	43.75	-12.92	30.83	40.00	-9.17
155.130	Peak	43.21	-12.49	30.72	43.50	-12.78
289.960	Peak	49.97	-12.15	37.82	46.00	-8.18
378.230	QP	27.30	-9.82	17.48	46.00	-28.52
719.670	Peak	42.43	-3.39	39.04	46.00	-6.96
972.840	Peak	29.77	0.92	30.69	54.00	-23.31

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-09

Test Frequency :2452 MHz

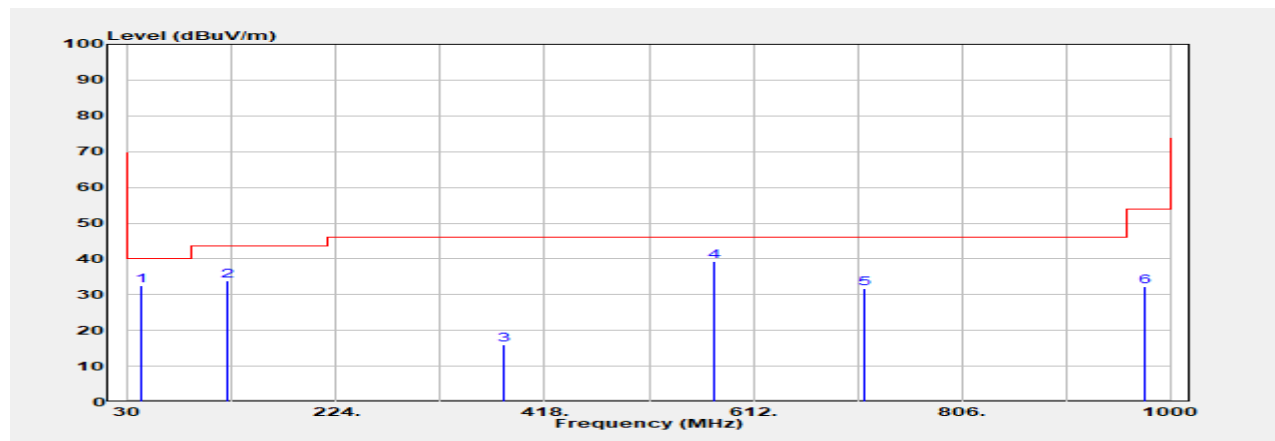
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
42.610	QP	45.40	-12.97	32.43	40.00	-7.57
123.120	Peak	48.98	-15.18	33.80	43.50	-9.70
379.200	QP	25.90	-9.78	16.12	46.00	-29.88
575.140	Peak	45.09	-5.66	39.43	46.00	-6.57
715.790	Peak	35.13	-3.46	31.67	46.00	-14.33
976.720	Peak	31.29	0.88	32.17	54.00	-21.83

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-09

Test Frequency :2452 MHz

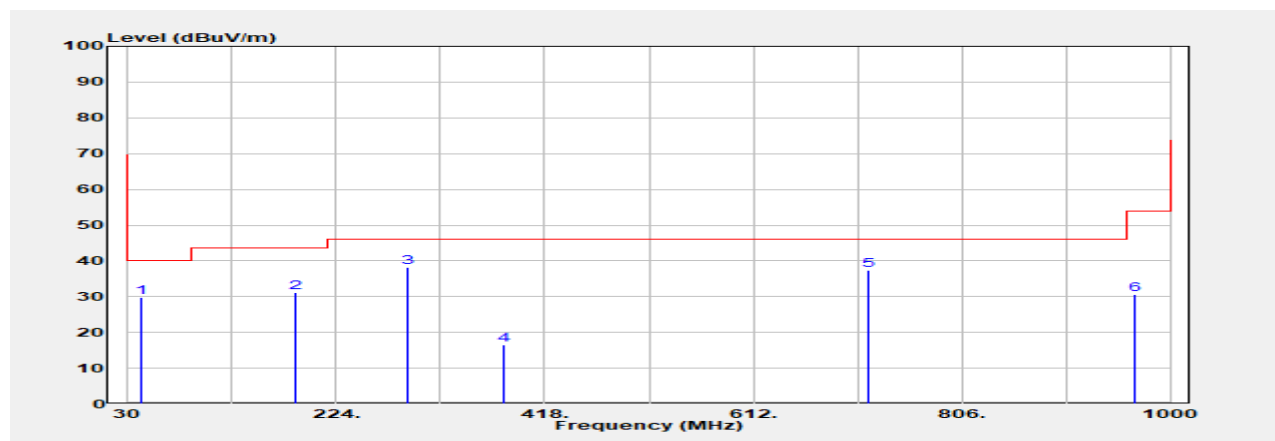
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
42.610	Peak	42.77	-12.97	29.80	40.00	-10.20
185.200	Peak	46.16	-14.98	31.18	43.50	-12.32
289.960	Peak	50.43	-12.15	38.27	46.00	-7.73
379.200	QP	26.20	-9.78	16.42	46.00	-29.58
719.670	Peak	40.71	-3.39	37.32	46.00	-8.68
967.990	Peak	29.70	0.91	30.61	54.00	-23.39

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-09

Test Frequency :2462 MHz

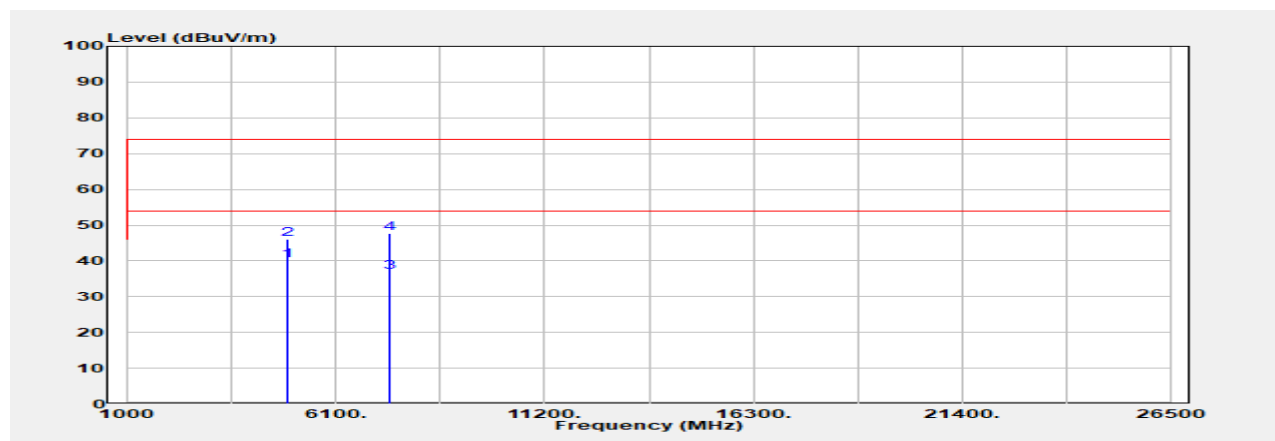
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.000	Average	36.68	3.46	40.14	54.00	-13.86
4924.000	Peak	42.72	3.46	46.18	74.00	-27.82
7386.000	Average	27.81	9.03	36.84	54.00	-17.16
7386.000	Peak	38.59	9.03	47.62	74.00	-26.38

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11b

Test Date :2023-05-09

Test Frequency :2462 MHz

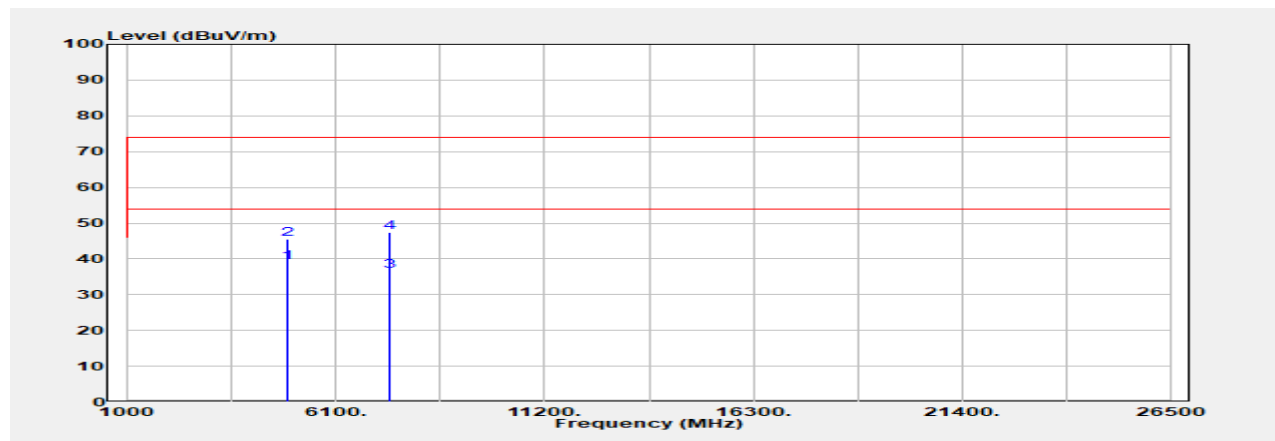
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	35.52	3.46	38.99	54.00	-15.01
4924.000	Peak	42.14	3.46	45.60	74.00	-28.40
7386.000	Average	27.66	9.03	36.69	54.00	-17.31
7386.000	Peak	38.42	9.03	47.45	74.00	-26.55

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-09

Test Frequency :2412 MHz

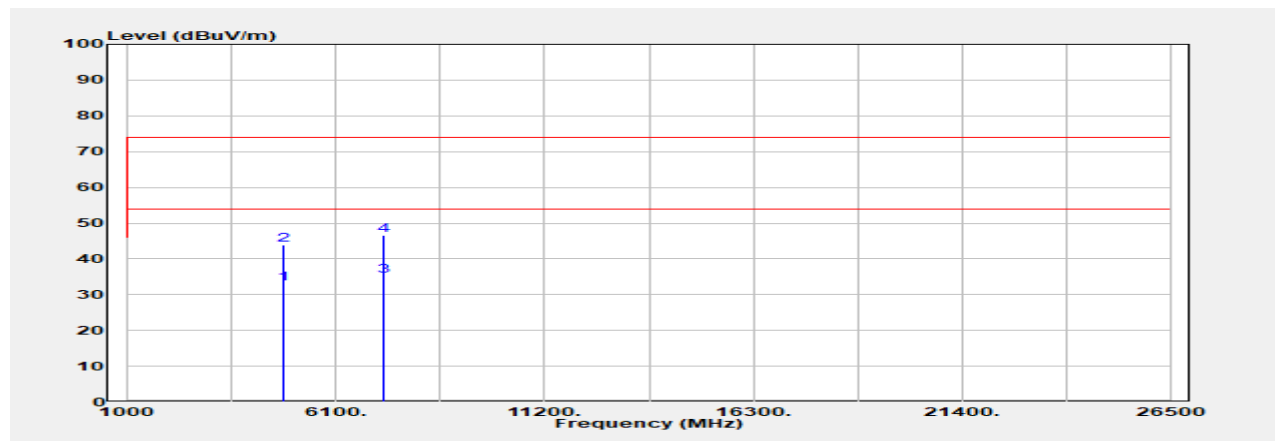
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBµV	dB	dBµV/m	dBµV/m	dB
4824.000	Average	29.87	3.28	33.15	54.00	-20.85
4824.000	Peak	40.71	3.28	43.99	74.00	-30.01
7236.000	Average	26.69	8.54	35.22	54.00	-18.78
7236.000	Peak	37.95	8.54	46.49	74.00	-27.51

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11g

Test Date :2023-05-09

Test Frequency :2412 MHz

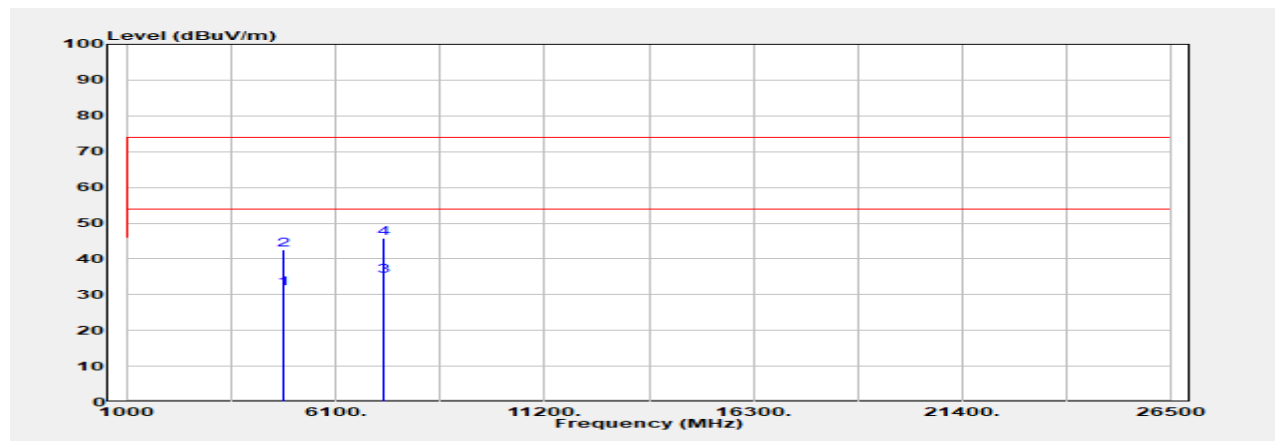
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.000	Average	28.50	3.28	31.78	54.00	-22.22
4824.000	Peak	39.32	3.28	42.60	74.00	-31.40
7236.000	Average	26.74	8.54	35.27	54.00	-18.73
7236.000	Peak	37.19	8.54	45.72	74.00	-28.28

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-09

Test Frequency :2437 MHz

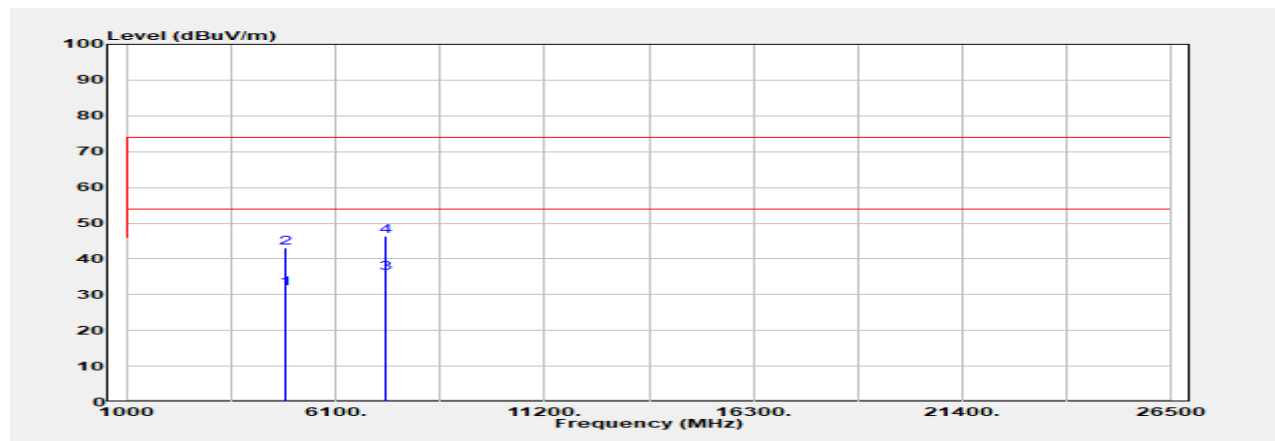
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	28.44	3.35	31.79	54.00	-22.21
4874.000	Peak	39.85	3.35	43.20	74.00	-30.80
7311.000	Average	27.45	8.58	36.03	54.00	-17.97
7311.000	Peak	37.85	8.58	46.43	74.00	-27.57

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n20

Test Date :2023-05-09

Test Frequency :2437 MHz

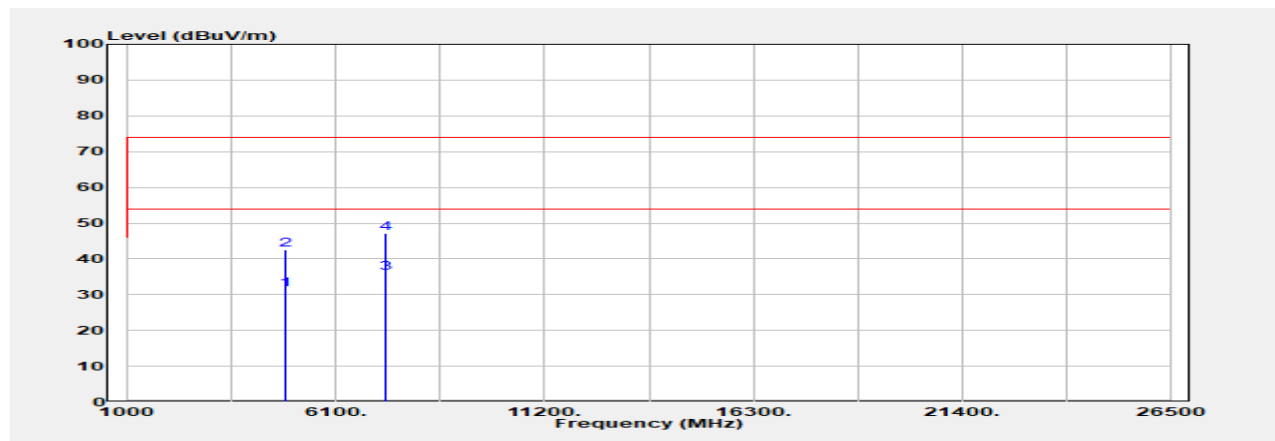
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.000	Average	27.99	3.35	31.35	54.00	-22.65
4874.000	Peak	39.27	3.35	42.62	74.00	-31.38
7311.000	Average	27.58	8.58	36.15	54.00	-17.85
7311.000	Peak	38.61	8.58	47.19	74.00	-26.81

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-09

Test Frequency :2452 MHz

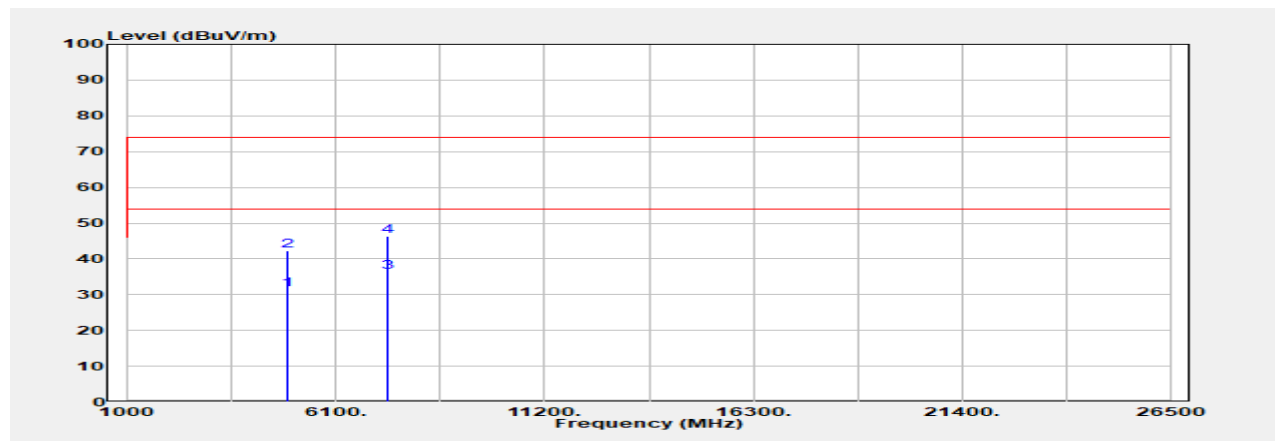
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dBµV	dB	dBµV/m	dBµV/m	dB
4904.000	Average	28.13	3.40	31.54	54.00	-22.46
4904.000	Peak	38.92	3.40	42.32	74.00	-31.68
7356.000	Average	27.44	8.88	36.32	54.00	-17.68
7356.000	Peak	37.49	8.88	46.37	74.00	-27.63

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Report Number :TERF2304000939E2

Test Site :SAC G Chamber

Operation Mode :802.11n40

Test Date :2023-05-09

Test Frequency :2452 MHz

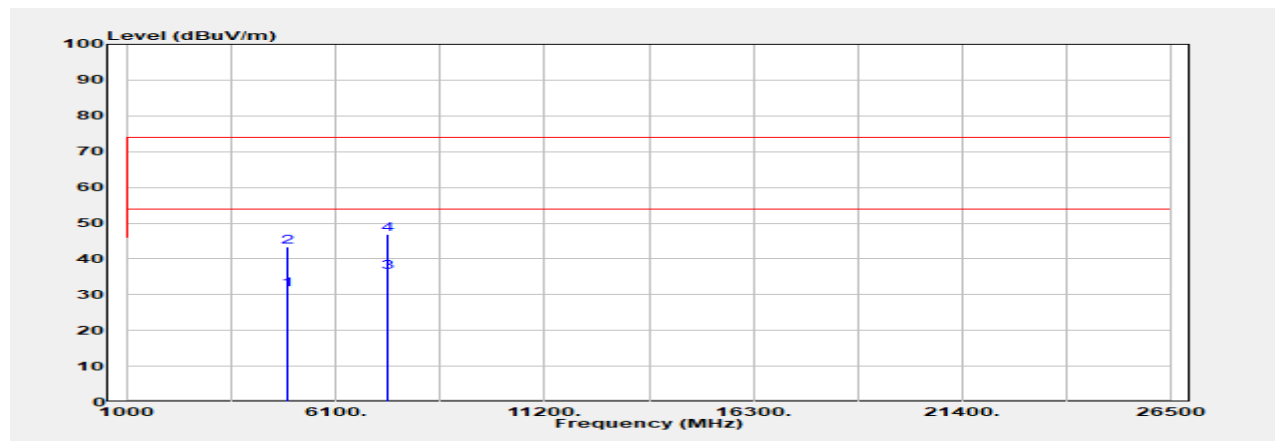
Temp./Humi. :20.7/69

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AVG	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.000	Average	28.15	3.40	31.55	54.00	-22.45
4904.000	Peak	39.91	3.40	43.31	74.00	-30.69
7356.000	Average	27.45	8.88	36.34	54.00	-17.66
7356.000	Peak	38.09	8.88	46.97	74.00	-27.03

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12 POWER SPECTRAL DENSITY

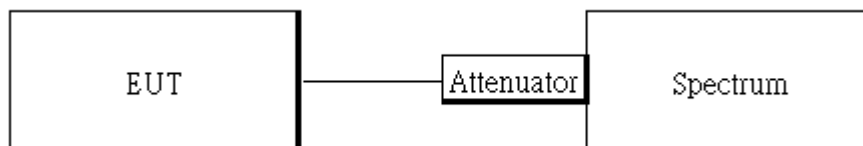
12.1 Standard Applicable

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 Test Setup



12.3 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.

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.

12.4 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,

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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

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

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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12.5 Power spectral density

Gain				5.85	dBi
Muti TX				2 Transmit antennas	
POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.94	-11.81	-8.86	8.00	PASS
2437	-13.07	-11.38	-9.13	8.00	PASS
2462	-9.17	-9.62	-6.38	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-13.36	-13.54	-10.44	8.00	PASS
2437	-14.07	-14.05	-11.05	8.00	PASS
2462	-14.75	-14.75	-11.74	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-15.63	-16.15	-12.87	8.00	PASS
2437	-14.57	-14.88	-11.71	8.00	PASS
2462	-16.46	-17.29	-13.84	8.00	PASS

Gain				5.85	dBi
Muti TX				2 Transmit antennas	
POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-23.06	-21.80	-19.37	8.00	PASS
2437	-21.77	-22.37	-19.05	8.00	PASS
2452	-20.25	-21.17	-17.68	8.00	PASS

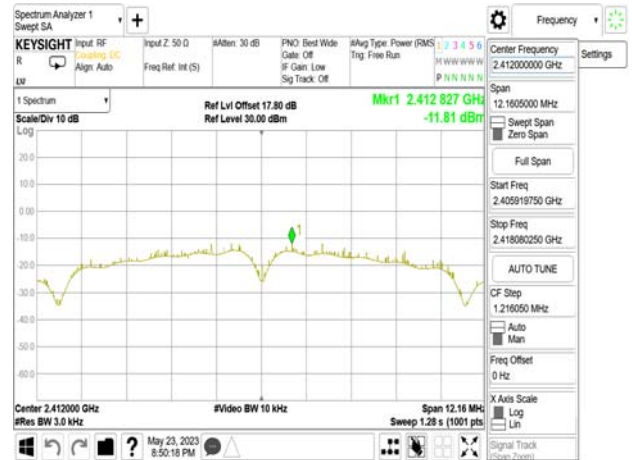
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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



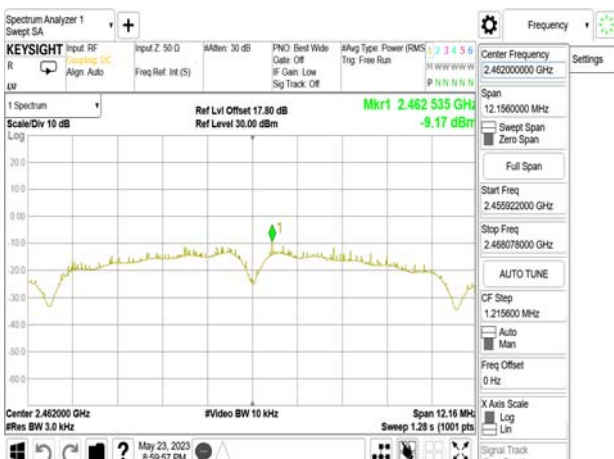
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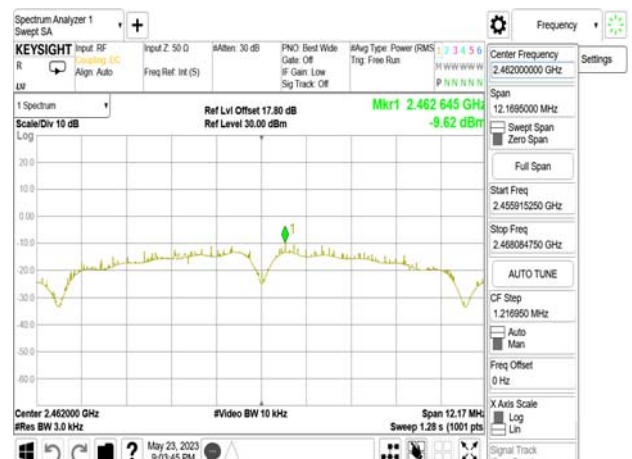
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802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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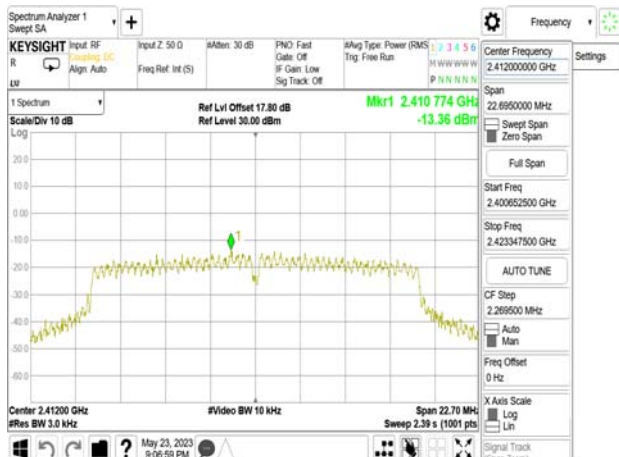
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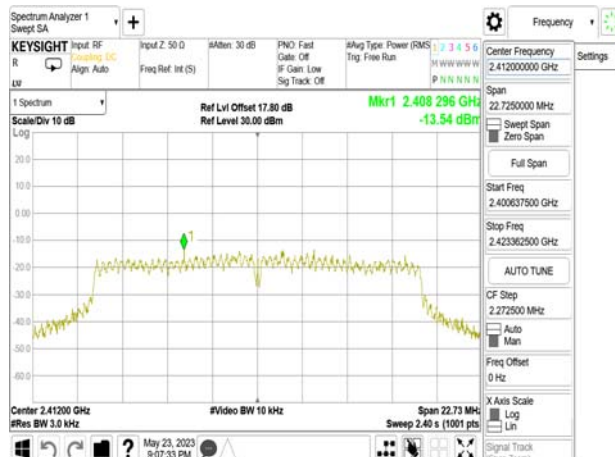
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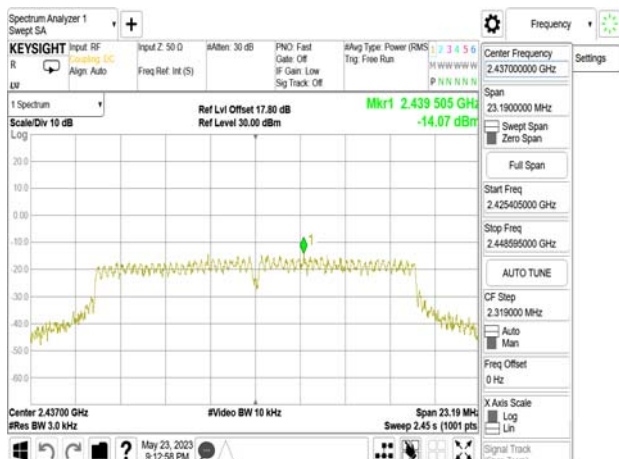
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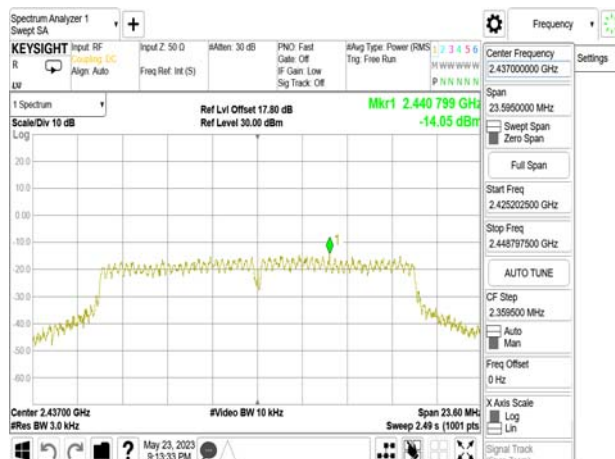
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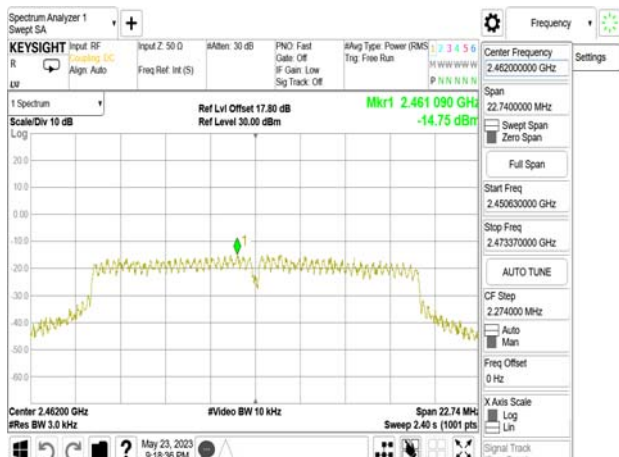
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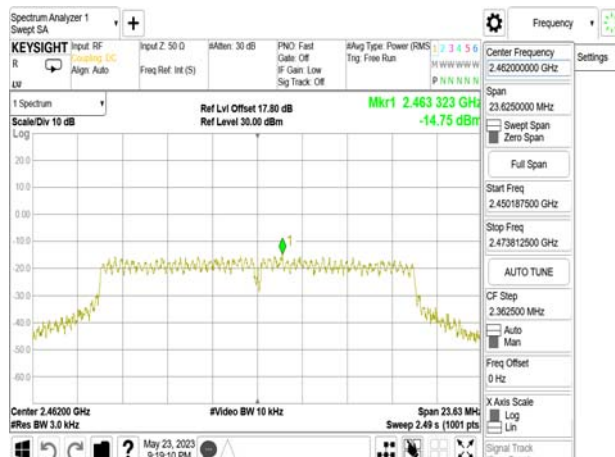
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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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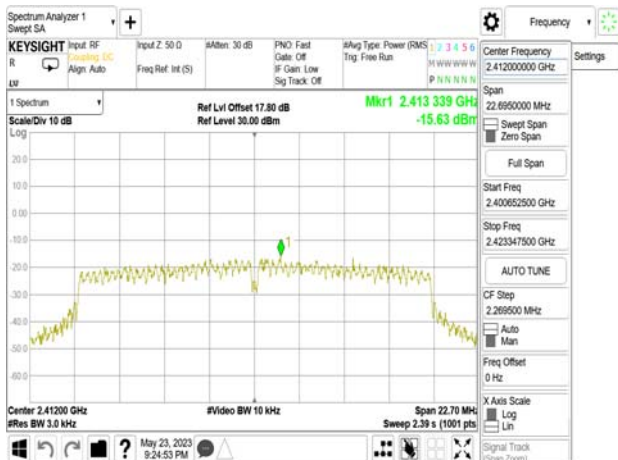
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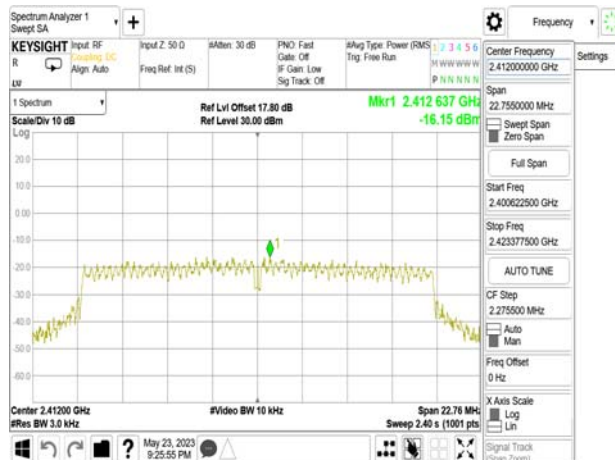
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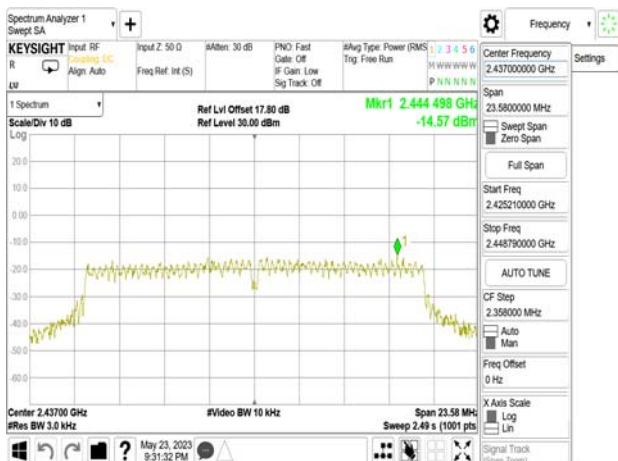
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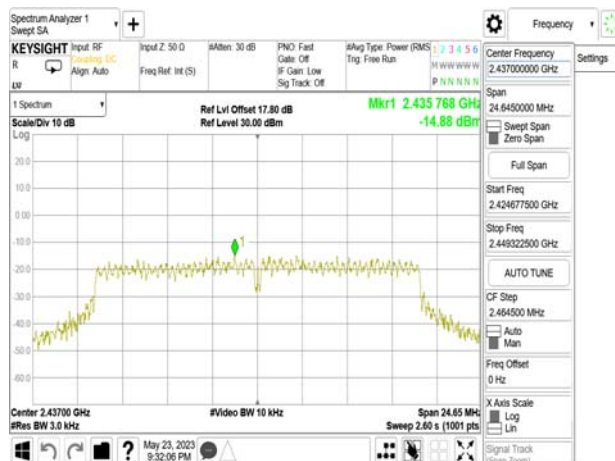
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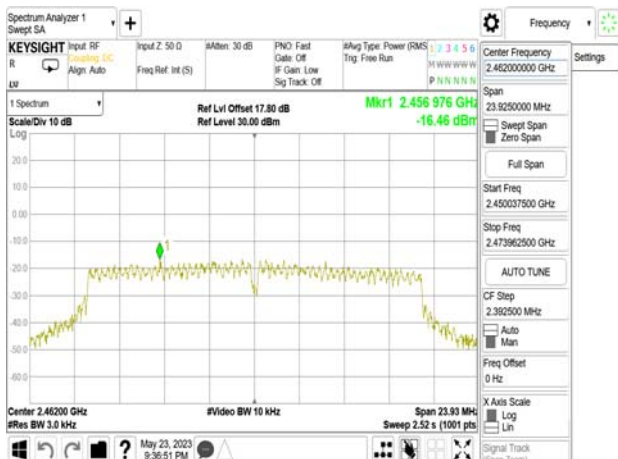
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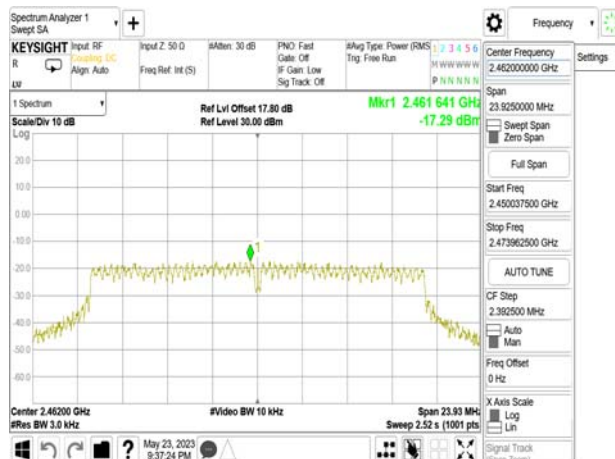
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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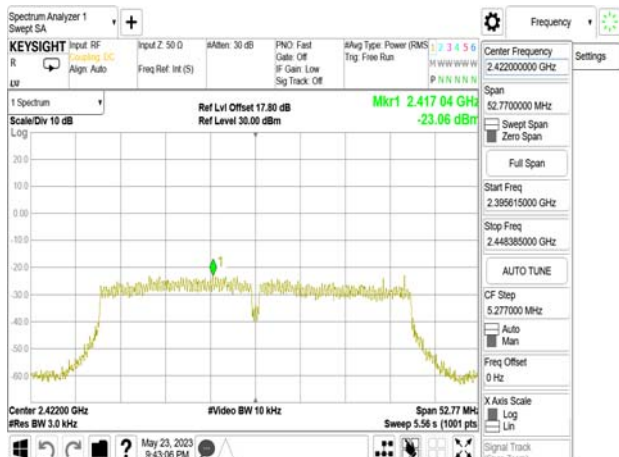
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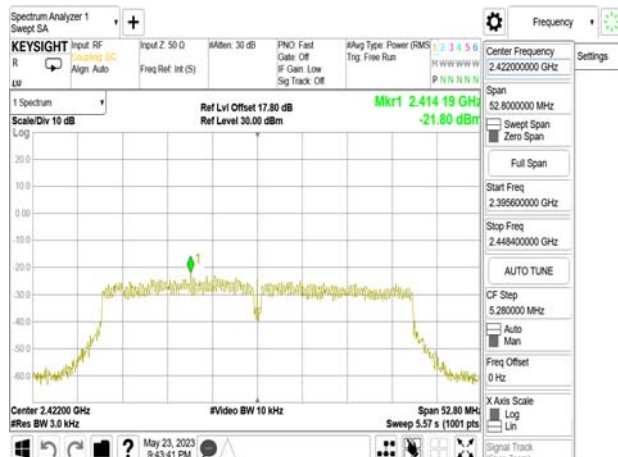
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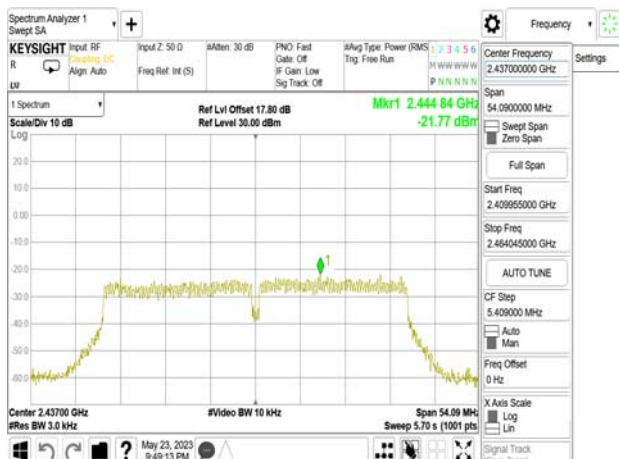
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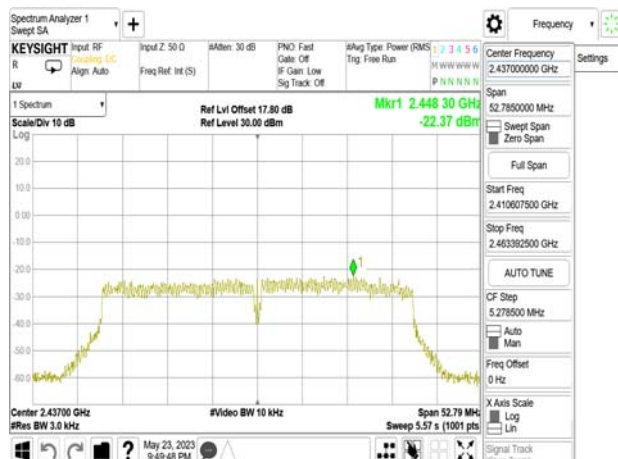
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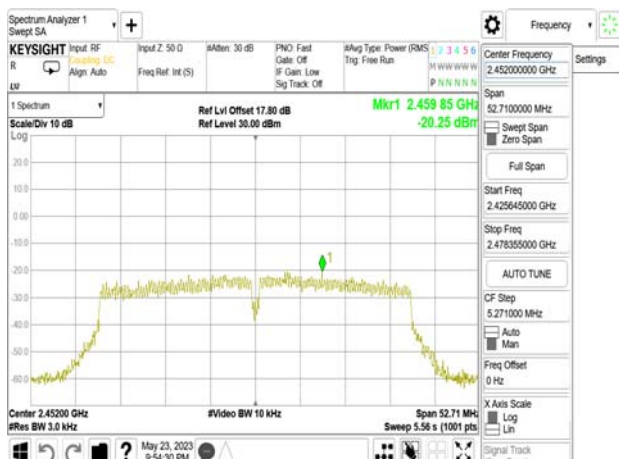
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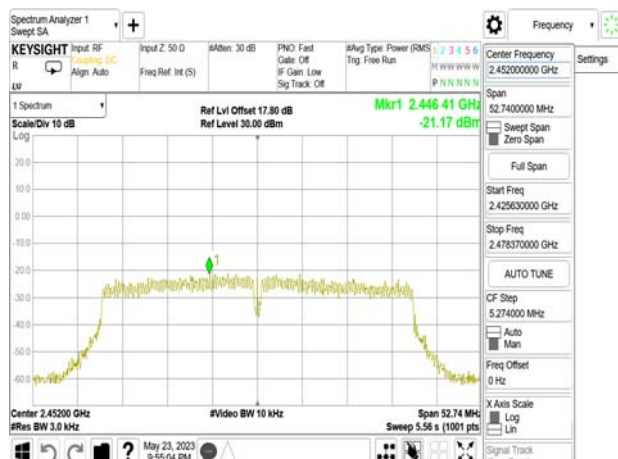
802.11n_40MHz_Chain1_2437MHz



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 complies with this requirement and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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