

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** Immedia Semiconductor LLC.  
100 Riverpark Drive, Suite 125  
North Reading, MA 01864, United States of America

**Manufacturer:** Immedia Semiconductor LLC.  
100 Riverpark Drive, Suite 125  
North Reading, MA 01864, United States of America

**Product Name:** Camera

**Brand Name:** blink

**Model No.:** BCM00700U

**Model Difference:** N/A

**Report Number:** TERF2310002707E2

**FCC ID** 2AF77-H2311821

**IC:** 20741-H2311821

**Date of EUT Received:** October 30, 2023

**Date of Test:** October 31, 2023~December 08, 2023

**Issue Date:** December 13, 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
TERF2310002707E2	00	Original	December 13, 2023	Violetta Tang	

**Note:**

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

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## 1 GENERAL INFORMATION

### 1.1 Product Description

Product Name:	Camera
Brand Name:	blink
Model No.:	BCM00700U
Model Difference:	N/A
Hardware Version:	PVT
Firmware Version:	N/A
EUT Series No.:	TE_SP_2023103001
Power Supply:	5V
Test Software (Name/Version)	Tera Term V4.106

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## 1.2 RF Specification

### WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	20.62	17.30	DSSS
802.11g	2412~2462	11	26.01	18.31	OFDM
802.11n20	2412~2462	11	25.92	18.15	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 72.2Mbps			

### 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	20.62	17.30	20.70	DSSS
802.11g	2412~2462	11	26.01	18.31	21.71	OFDM
802.11n20	2412~2462	11	25.92	18.15	21.55	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 72.2Mbps				

## 1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Monopole	Immedia Semiconductor LLC	BCM00700U	2400~2500	3.4

**Note:** 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

RSS-247 issue 3 Aug. 2023

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 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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

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

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

### 2.4.2 For all conducted test items:

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

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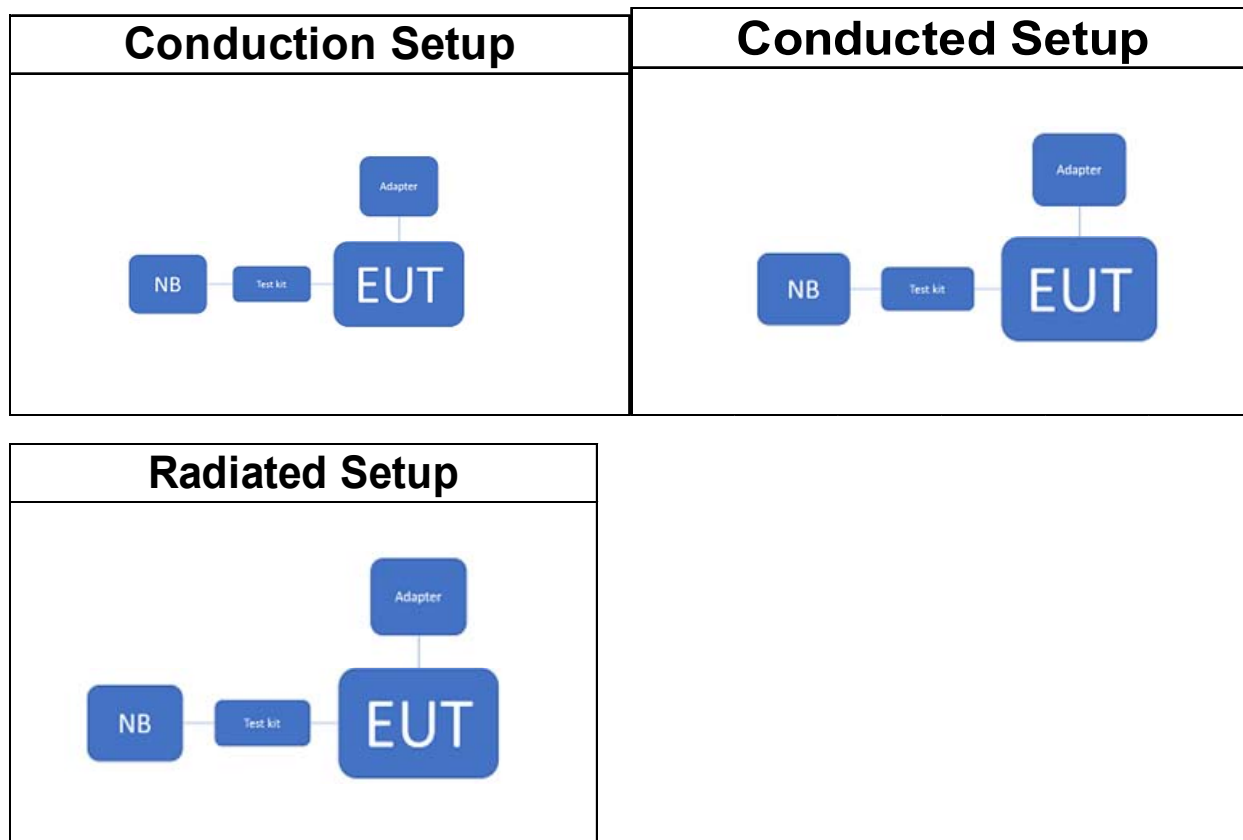
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## 2.5 Test Configuration



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## 2.6 Control Unit(s)

1<sup>st</sup>

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
USB Cable	DONGGUAN YUQIU ELECTRONIC CO., LTD	1310252-00200-01	N/A	N/A	N/A
Adapter	Dongguan Aohai Technology Co.,Ltd.	A726-050150U-US1	N/A	N/A	N/A
USB Cable	DONGGUAN YUQIU ELECTRONIC CO., LTD	1310252-00100-01	N/A	N/A	N/A

2<sup>nd</sup>

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Dongguan Aohai Technology Co.,Ltd	BAH0410U	N/A	N/A	N/A

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A

1<sup>st</sup>

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
USB Cable	DONGGUAN YUQIU ELECTRONIC CO., LTD	1310252-00200-01	N/A	N/A	N/A
USB Cable	DONGGUAN YUQIU ELECTRONIC CO., LTD	1310252-00100-01	N/A	N/A	N/A
Adapter	Dongguan Aohai Technology Co.,Ltd.	A726-050150U-US1	N/A	N/A	N/A

2<sup>nd</sup>

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Dongguan Aohai Technology Co.,Ltd	BAH0410U	N/A	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 Operating Frequencies

2400~2483.5 MHz	
20MHz	
CH	Freq. (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. 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 given UE is pre-scanned among below modes.

Modulation		Transmission Chain							Single Transmission Spatial		Multi Transmission Spatial	
v	802.11 b	v	Ch0		Ch1		Ch2		Ch3	v	1TX	1TX
v	802.11 g	v	Ch0		Ch1		Ch2		Ch3	v	1TX	1TX
v	802.11 n	v	Ch0		Ch1		Ch2		Ch3	v	1TX	1TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX	1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX	1TX

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	ch0
802.11g	1 to 11	1,2,6,10,11	OFDM	6	ch0
802.11n (HT20)	1 to 11	1,2,6,10,11	OFDM	MCS0	ch0

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## WLAN 2.4G

**TRANSMIT 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	1TX

**TRANSMIT 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	1TX
802.11g	1 to 11	1,2,6,10,11	OFDM	6	1TX
802.11n (HT20)	1 to 11	1,2,6,10,11	OFDM	MCS0	1TX

**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 Mess-Elektronik	NSLK8127	973	04/20/2023	04/19/2024
EMI Test Receiver	R&S	ESCI	101342	04/24/2023	04/23/2024
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	MY59071573	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	2138002	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911390	08/31/2023	08/30/2024
Power Sensor	Anritsu	MA2411B	1911398	08/31/2023	08/30/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Woken	WATT-218FS-10	RF18	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF19	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF155	11/16/2022	11/15/2023

### 6.3 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/11/2022	11/10/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/12/2023	01/11/2024
Loop Antenna	ETS.LINDGREN	6502	148045	10/13/2023	10/12/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2023	03/01/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/29/2023	03/28/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/16/2022	11/15/2023
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2023	10/24/2024
Attenuator	Woken	WATT-218FS-10	RF16	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	EMC106-SM-SM- 9100	150704	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/16/2022	11/15/2023
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/16/2022	11/15/2023

**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

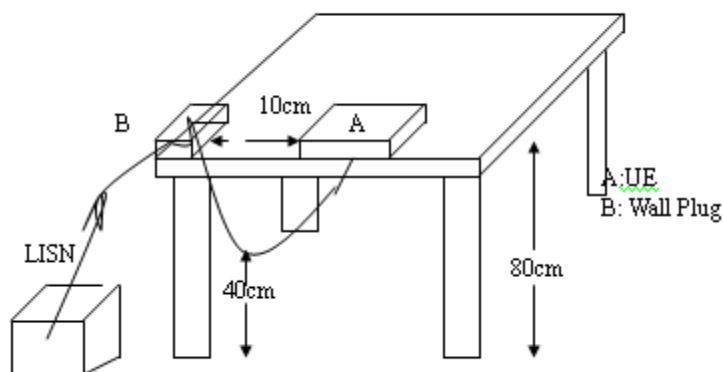
Note

- 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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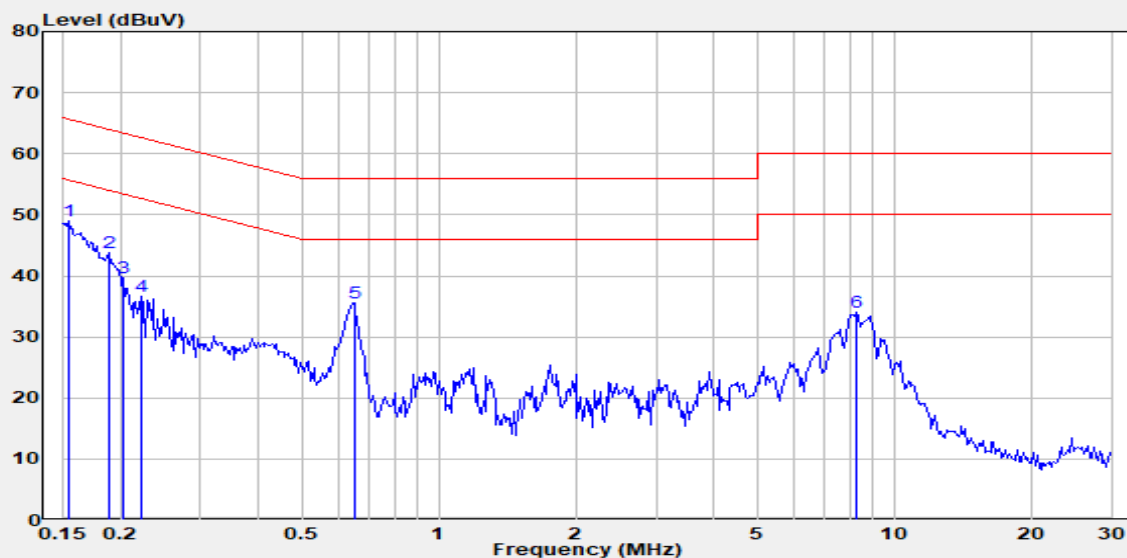
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

1<sup>st</sup>

Report Number	:TERF2310002707E2	Test Site	:Conduction C
Test Mode	:2.4G	Test Date	:2023-11-02
Power	:120V/60Hz	Temp./Humi.	:20.3°C/63%
Probe	:L1	Engineer	:Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V	dB $\mu$ V	dB
0.154	Peak	38.27	10.65	48.92	65.79	-16.87
0.189	Peak	33.08	10.65	43.73	64.10	-20.37
0.204	Peak	29.01	10.65	39.66	63.46	-23.80
0.222	Peak	25.97	10.65	36.62	62.76	-26.14
0.652	Peak	24.95	10.64	35.59	56.00	-20.41
8.253	Peak	23.01	10.96	33.97	60.00	-26.03

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Report Number :TERF2310002707E2

Test Site :Conduction C

Test Mode :2.4G

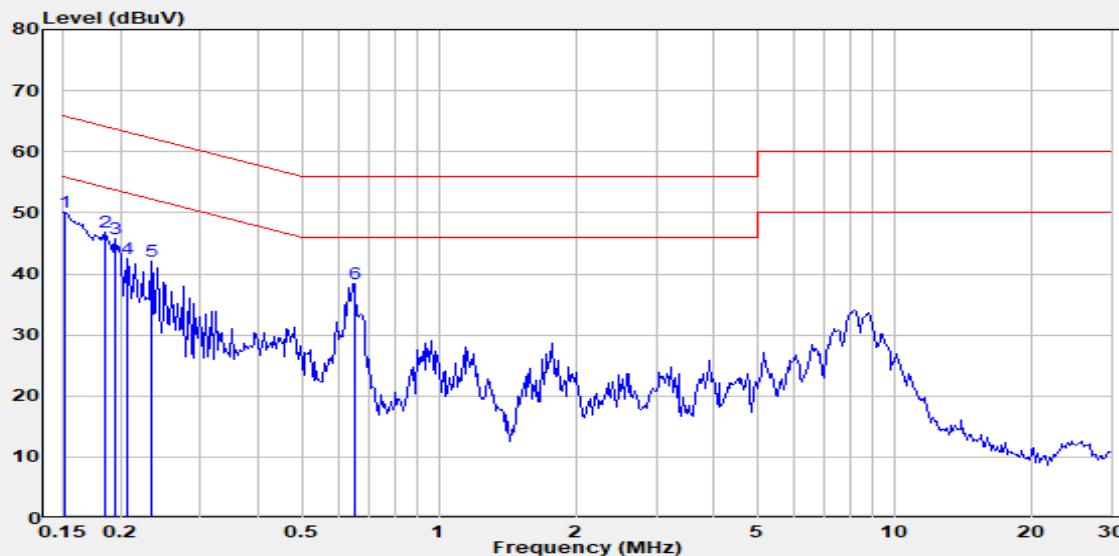
Test Date :2023-11-02

Power :120V/60Hz

Temp./Humi. :20.3°C/63%

Probe :N

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.151	Peak	39.48	10.66	50.14	65.93	-15.78
0.185	Peak	36.23	10.65	46.88	64.24	-17.35
0.195	Peak	35.08	10.65	45.73	63.81	-18.08
0.207	Peak	31.75	10.65	42.40	63.32	-20.92
0.233	Peak	31.32	10.64	41.96	62.33	-20.38
0.652	Peak	27.68	10.63	38.31	56.00	-17.69

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2<sup>nd</sup>

Report Number :TERF2310002707E2

Test Site :Conduction C

Test Mode :2.4G

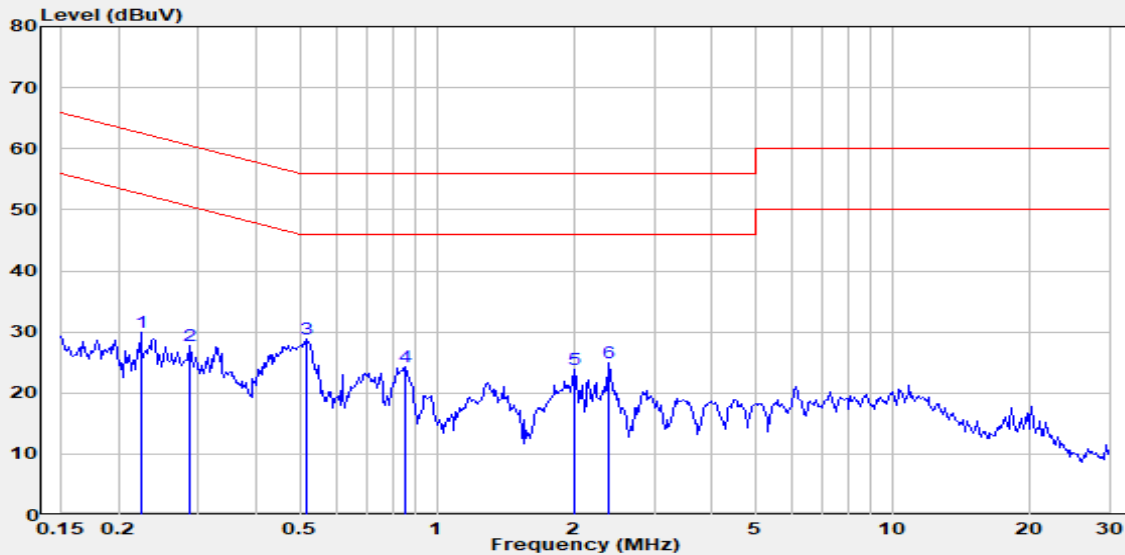
Test Date :2023-12-08

Power :120V/60Hz

Temp./Humi. :20.3°C/63%

Probe :L1

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.224	Peak	19.28	10.65	29.93	62.69	-32.76
0.286	Peak	17.18	10.64	27.81	60.64	-32.83
0.518	Peak	18.16	10.62	28.78	56.00	-27.22
0.855	Peak	13.51	10.67	24.18	56.00	-31.82
1.999	Peak	12.98	10.77	23.75	56.00	-32.25
2.389	Peak	14.07	10.80	24.87	56.00	-31.13

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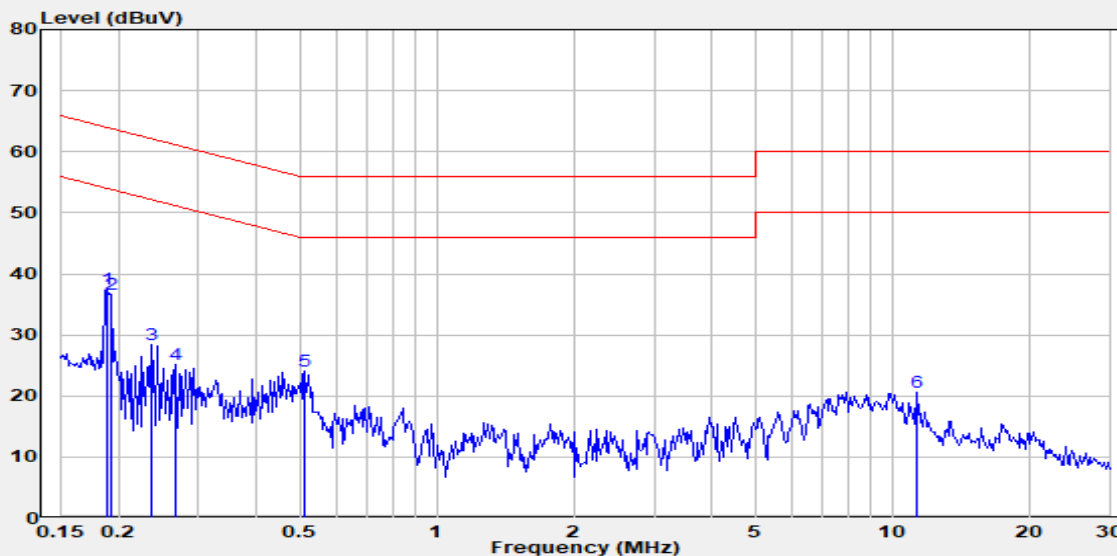
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Report Number	:TERF2310002707E2	Test Site	:Conduction C
Test Mode	:2.4G	Test Date	:2023-12-08
Power	:120V/60Hz	Temp./Humi.	:20.3°C/63%
Probe	:N	Engineer	:Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.189	Peak	26.91	10.65	37.56	64.10	-26.54
0.194	Peak	25.99	10.65	36.64	63.88	-27.25
0.235	Peak	17.67	10.64	28.31	62.26	-33.95
0.267	Peak	14.54	10.63	25.18	61.20	-36.03
0.514	Peak	13.49	10.61	24.10	56.00	-31.90
11.299	Peak	9.55	10.99	20.54	60.00	-39.46

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## 8 PEAK OUTPUT POWER MEASUREMENT

### 8.1 Standard Applicable

#### 8.1.1 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.

#### 8.1.2 FCC

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

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

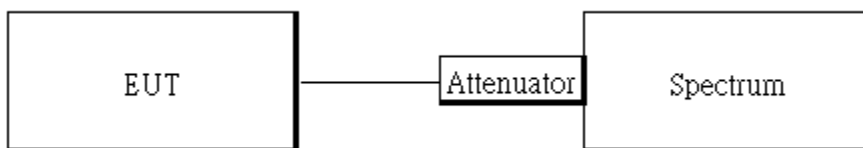
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

#### 8.1.3 ISED

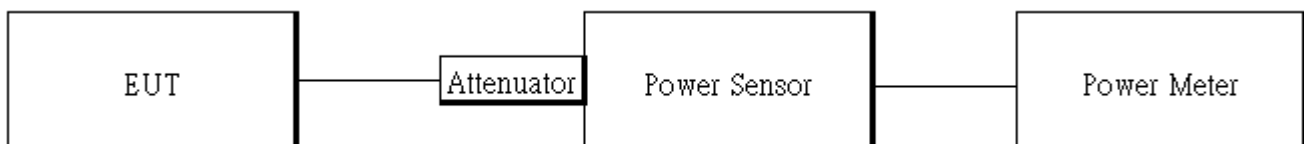
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

### 8.2 Test Setup

#### 8.2.1 Duty Cycle



#### 8.2.2 Output Power:



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### 8.3 Measurement Procedure

#### 8.3.1 Duty Cycle:

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

#### 8.3.2 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.

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

### 8.4 Measurement Result

#### 8.4.1 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) = 10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11b	98.89	0.05	0.12	0.01
802.11g	93.51	0.29	0.70	1.00
802.11n_20	93.16	0.31	0.75	1.00

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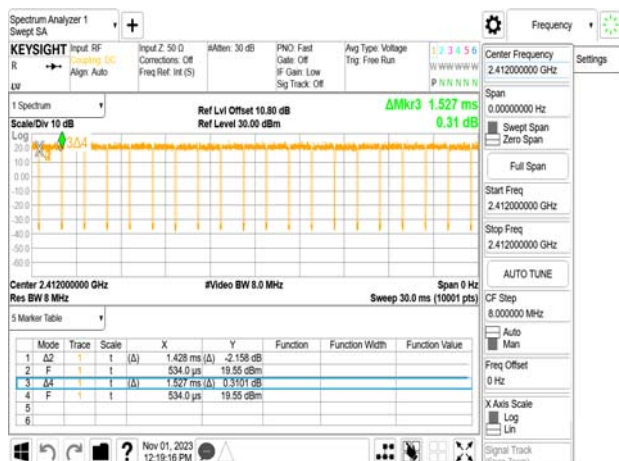


## 8.4.2 Duty Cycle test plots

802.11b\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2412MHz



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### 8.4.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	68	19.98	30.00	PASS
6	2437	1	69	20.23	30.00	PASS
11	2462	1	70	20.62	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	68	16.71	30.00	PASS
6	2437	1	69	16.90	30.00	PASS
11	2462	1	70	17.30	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	61	24.53	30.00	PASS
2	2417	6	74	25.68	30.00	PASS
6	2437	6	76	26.01	30.00	PASS
10	2457	6	70	25.63	30.00	PASS
11	2462	6	61	24.73	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	61	15.10	30.00	PASS
2	2417	6	74	17.80	30.00	PASS
6	2437	6	76	18.31	30.00	PASS
10	2457	6	70	17.11	30.00	PASS
11	2462	6	61	15.28	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	63	24.81	30.00	PASS
2	2417	MCS0	74	25.75	30.00	PASS
6	2437	MCS0	76	25.92	30.00	PASS
10	2457	MCS0	70	25.49	30.00	PASS
11	2462	MCS0	59	24.41	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	63	15.36	30.00	PASS
2	2417	MCS0	74	17.63	30.00	PASS
6	2437	MCS0	76	18.15	30.00	PASS
10	2457	MCS0	70	16.97	30.00	PASS
11	2462	MCS0	59	14.76	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	16.71	3.40	20.11	36	PASS
6	2437	1	16.90	3.40	20.30	36	PASS
11	2462	1	17.30	3.40	20.70	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	15.10	3.40	18.50	36	PASS
2	2417	6	17.80	3.40	21.20	36	PASS
6	2437	6	18.31	3.40	21.71	36	PASS
10	2457	6	17.11	3.40	20.51	36	PASS
11	2462	6	15.28	3.40	18.68	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	15.36	3.40	18.76	36	PASS
2	2417	MCS0	17.63	3.40	21.03	36	PASS
6	2437	MCS0	18.15	3.40	21.55	36	PASS
10	2457	MCS0	16.97	3.40	20.37	36	PASS
11	2462	MCS0	14.76	3.40	18.16	36	PASS

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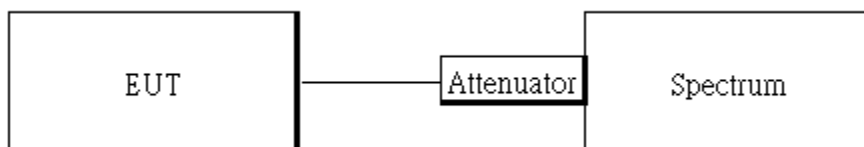
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## 9 EMISSION BANDWIDTH MEASUREMENT

### 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 6dB BW 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 99% BW 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%,  
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%.
4. Repeat above procedures until all test default channel is completed.

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## 9.4 Measurement Result:

### 9.4.1 6dB BW measurements

#### 802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	7065.00	$\geq 500$	PASS
2437	<b>7076.00</b>	$\geq 500$	PASS
2462	7014.00	$\geq 500$	PASS

#### 802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	<b>15160.00</b>	$\geq 500$	PASS
2437	15140.00	$\geq 500$	PASS
2462	15150.00	$\geq 500$	PASS

#### 802.11n\_HT\_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	<b>15150.00</b>	$\geq 500$	PASS
2437	<b>15150.00</b>	$\geq 500$	PASS
2462	<b>15150.00</b>	$\geq 500$	PASS

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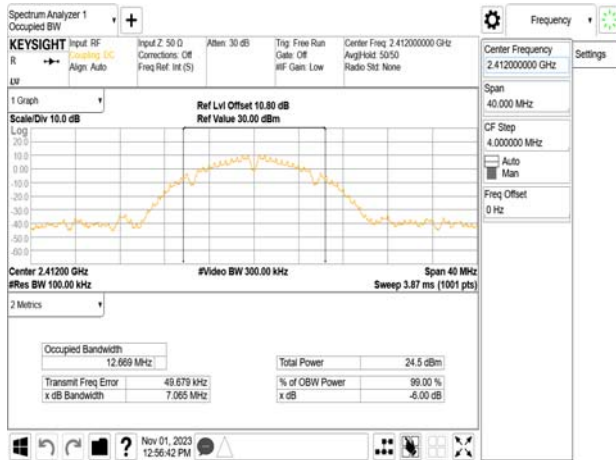
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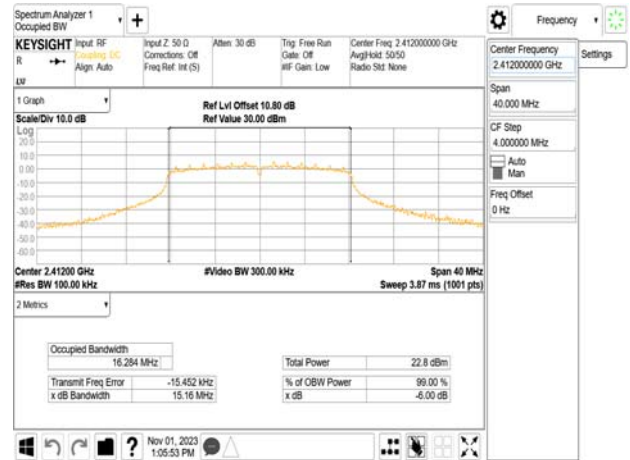
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802.11b\_20MHz\_Chain0\_2412MHz



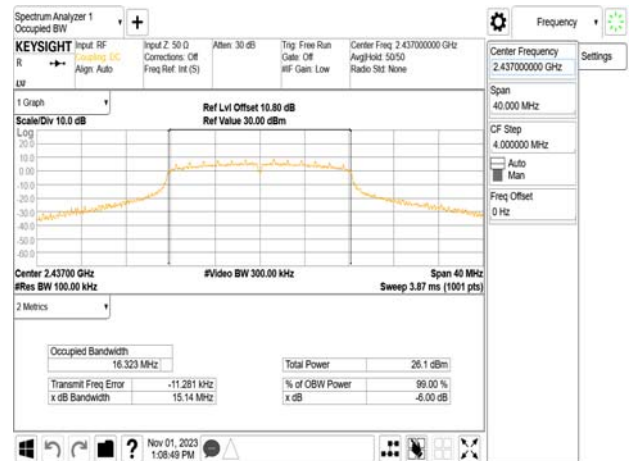
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802.11b\_20MHz\_Chain0\_2437MHz



802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz



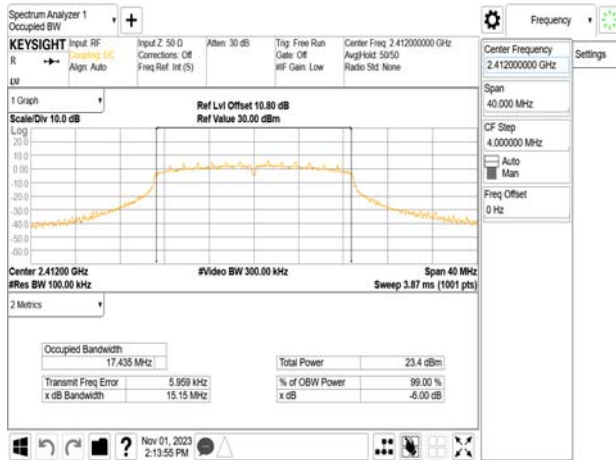
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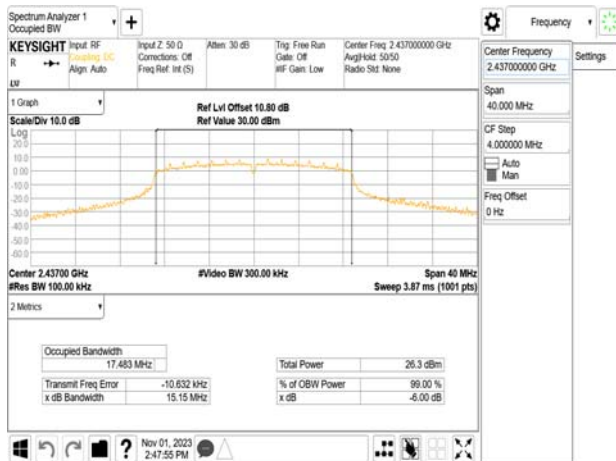
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802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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## 9.4.2 99% Bandwidth

### 802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	12.702
2437	12.716
2462	12.714

### 802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.464
2437	16.534
2462	16.457

### 802.11n\_HT20M Ch0

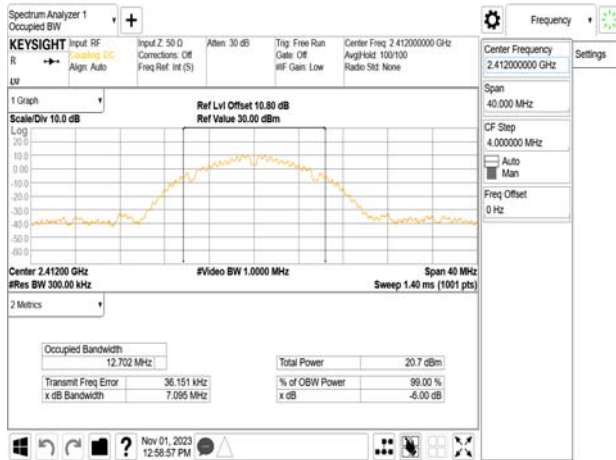
Freq. (MHz)	99% BW (MHz)
2412	17.565
2437	17.624
2462	17.568

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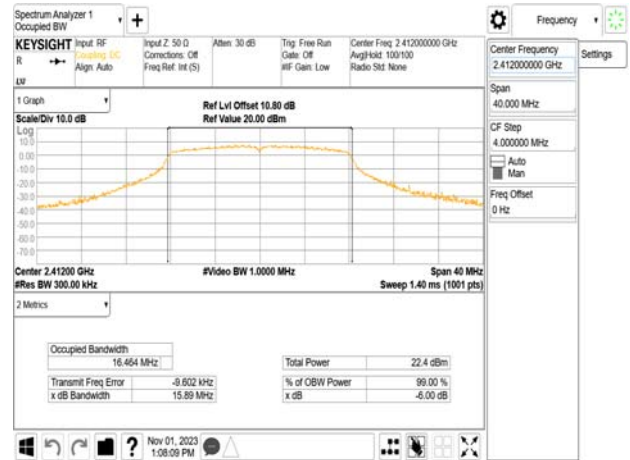
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802.11b\_20MHz\_Chain0\_2412MHz



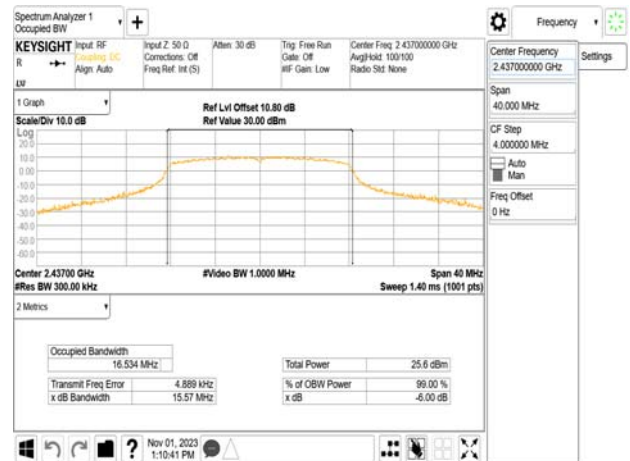
802.11g\_20MHz\_Chain0\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz



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802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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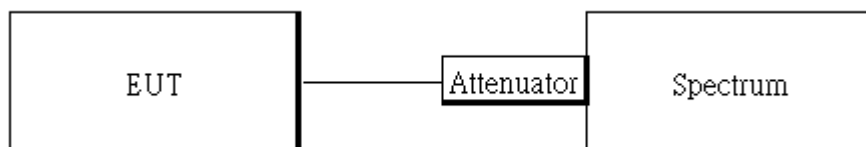
## 10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

### 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.

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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 -20 dBm.
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.

**10.3.3 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.

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## 10.4 Measurement Result

### 802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.06	-9.94
2437	10.50	-9.50
2462	10.71	-9.29

### 802.11g Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.61	-14.39
2437	8.65	-11.35
2462	5.81	-14.19

### 802.11n\_HT\_20M Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.99	-14.01
2437	9.02	-10.98
2462	5.64	-14.36

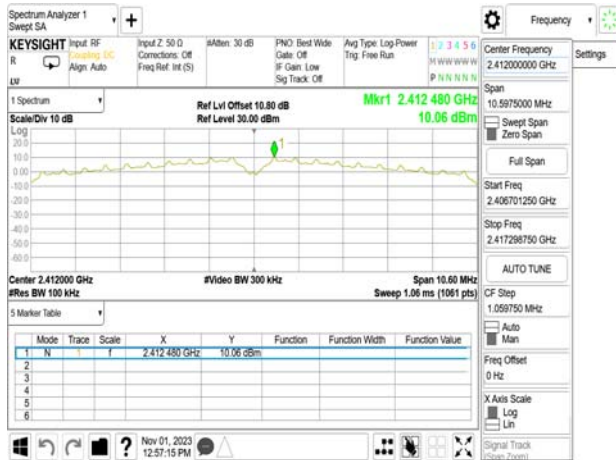
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802.11b\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz



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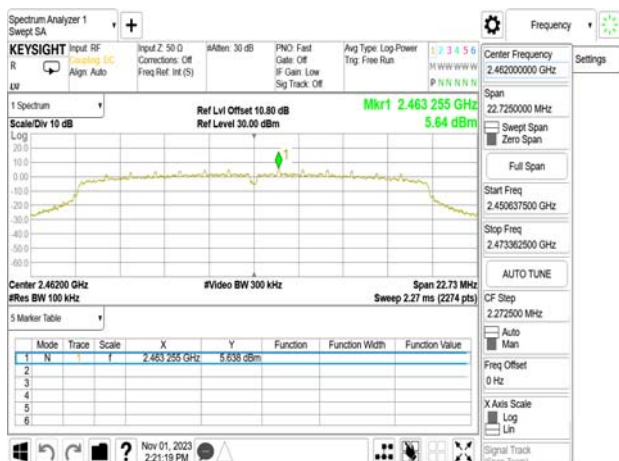
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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台灣檢驗科技股份有限公司

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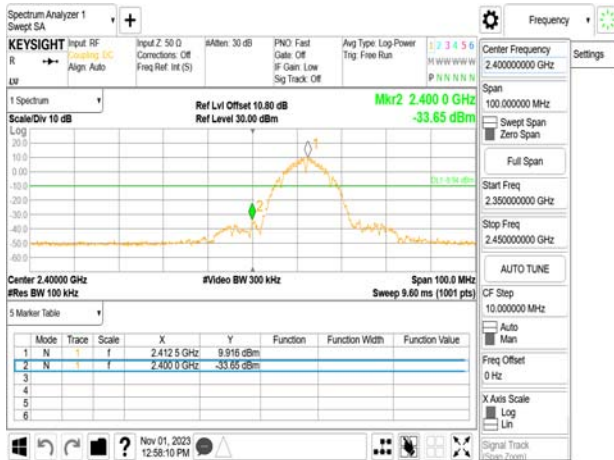
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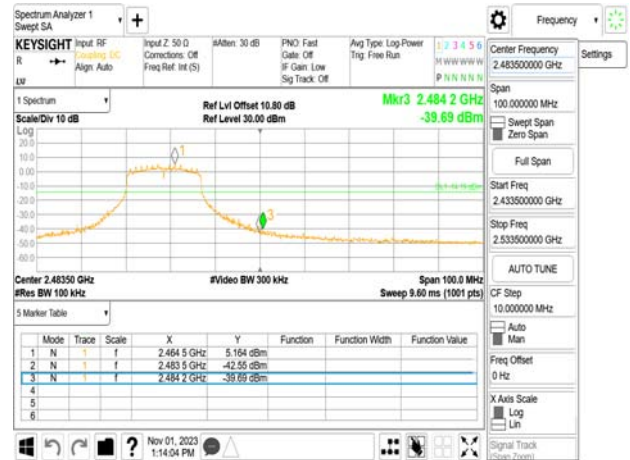
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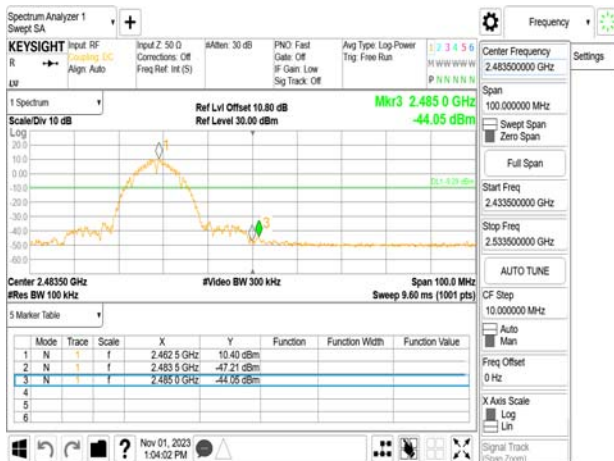
802.11b\_20MHz\_Chain0\_2412MHz



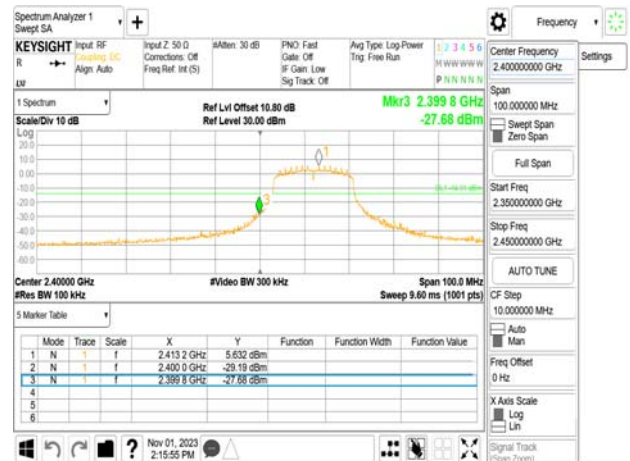
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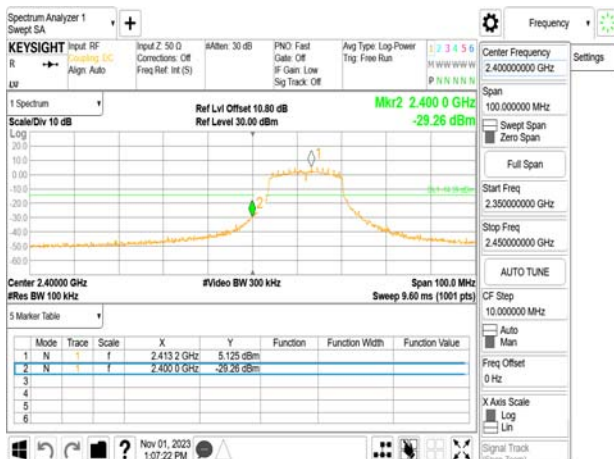
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802.11n\_20MHz\_Chain0\_2412MHz



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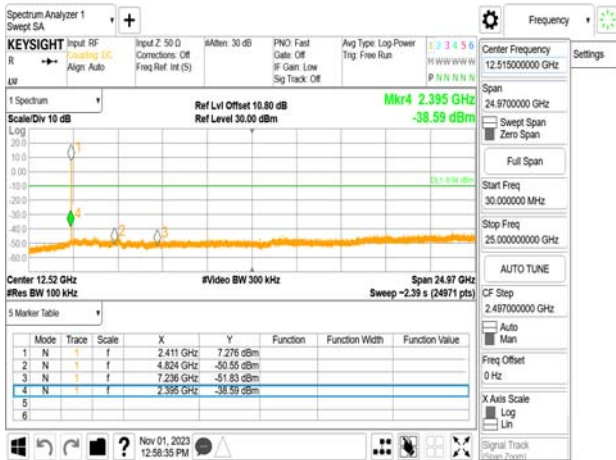


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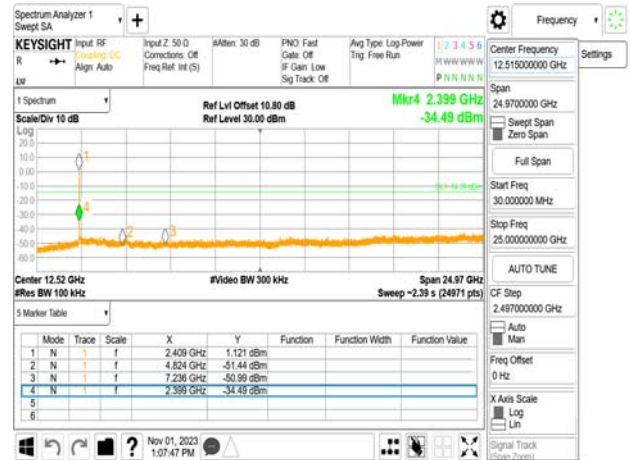
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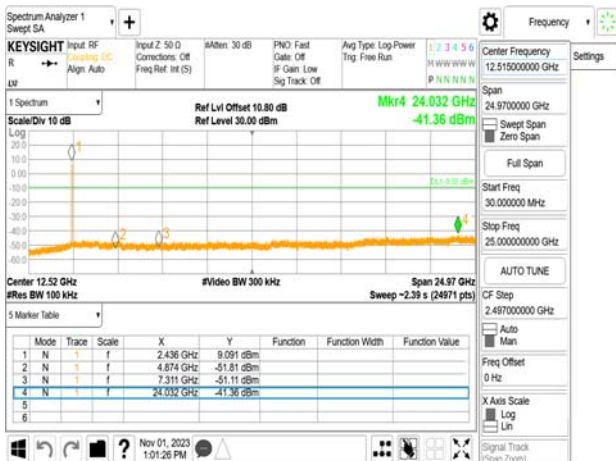
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802.11g\_20MHz\_Chain0\_2412MHz



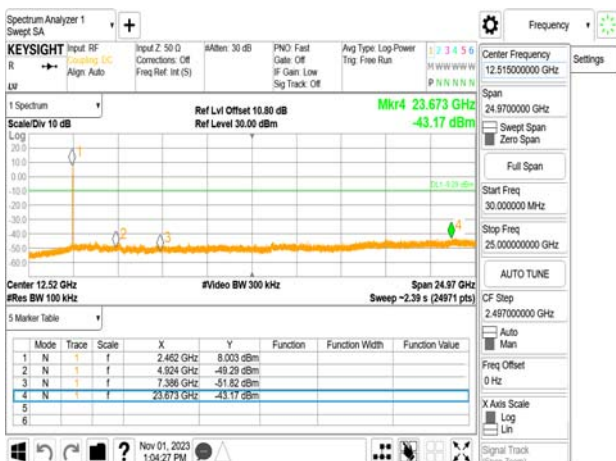
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802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

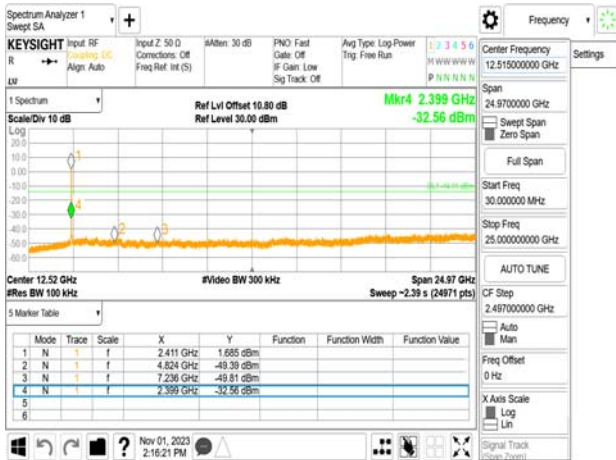


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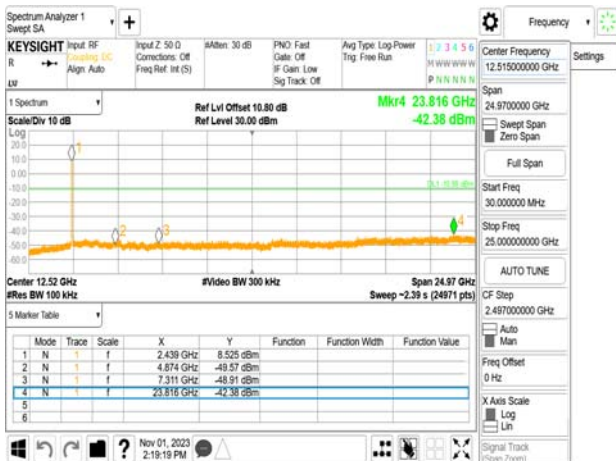
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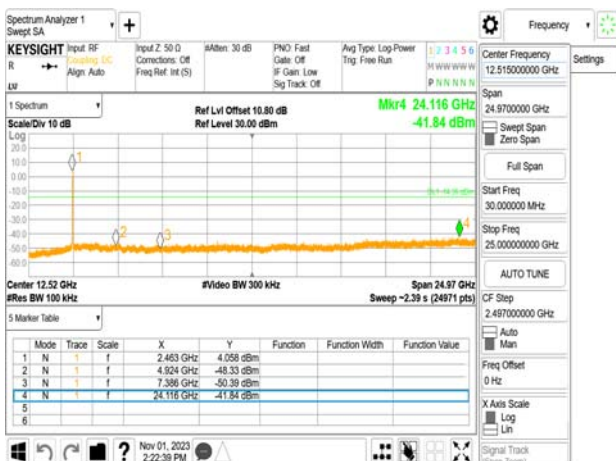
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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## 11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 11.1 Standard Applicable

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

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

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

**Note:**

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

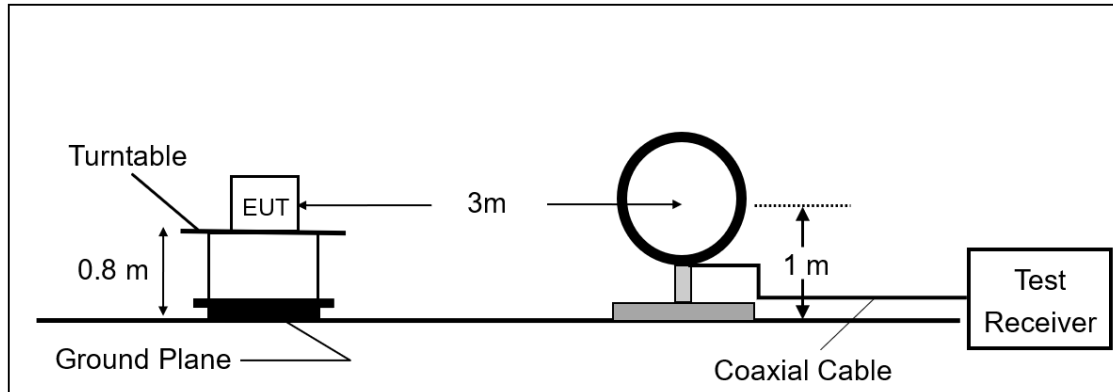
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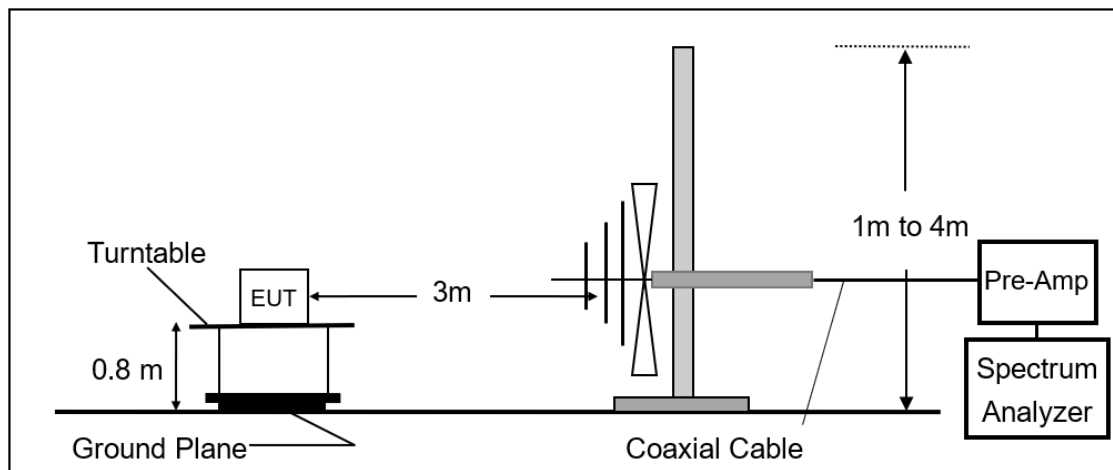


## 11.2 Test Setup

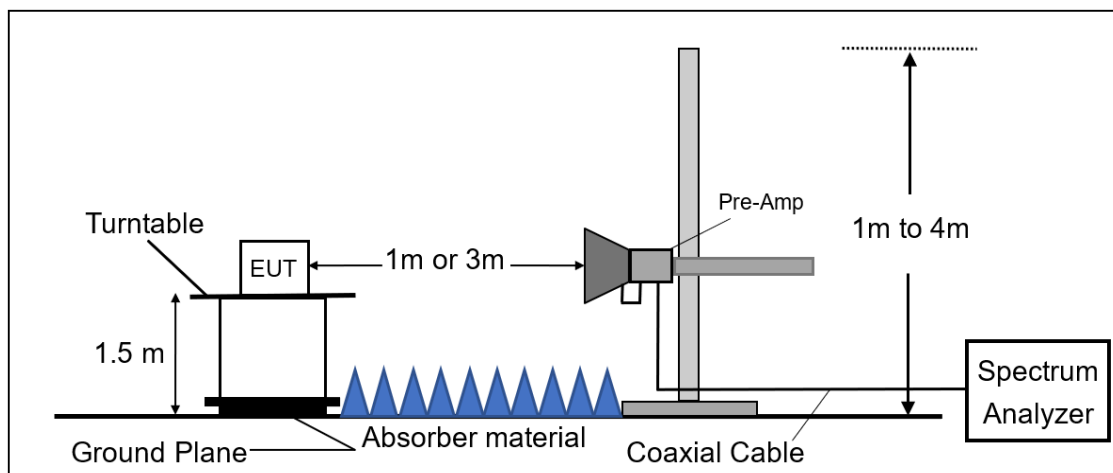
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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.

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## 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  $20 \cdot \log(uV/m)$

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 :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2412 MHz

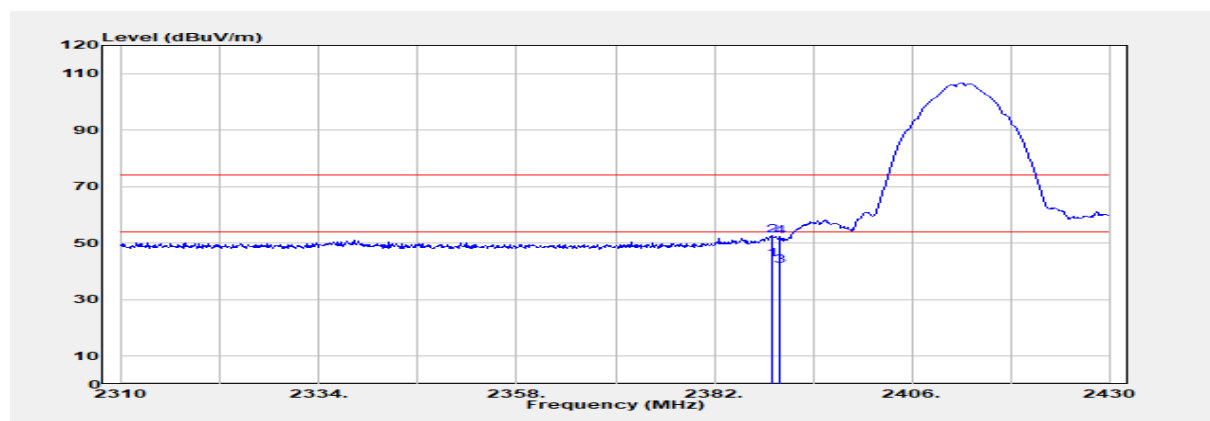
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2388.960	Average	46.39	-2.15	44.24	54.00	-9.76
2388.960	Peak	54.76	-2.15	52.61	74.00	-21.39
2390.000	Average	44.24	-2.15	42.09	54.00	-11.91
2390.000	Peak	54.36	-2.15	52.20	74.00	-21.80

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2412 MHz

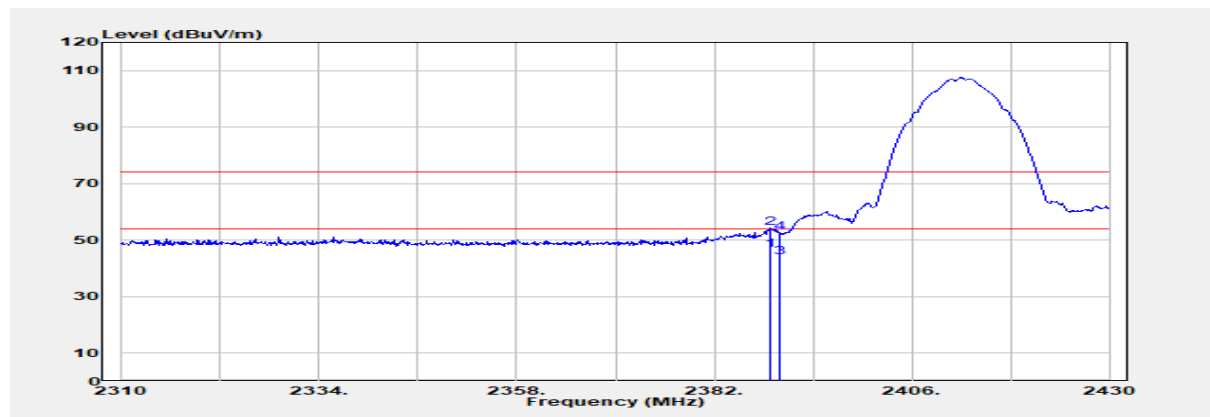
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.840	Average	48.77	-2.15	46.62	54.00	-7.38
2388.840	Peak	56.34	-2.15	54.19	74.00	-19.81
2390.000	Average	45.93	-2.15	43.78	54.00	-10.22
2390.000	Peak	54.92	-2.15	52.77	74.00	-21.23

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2462 MHz

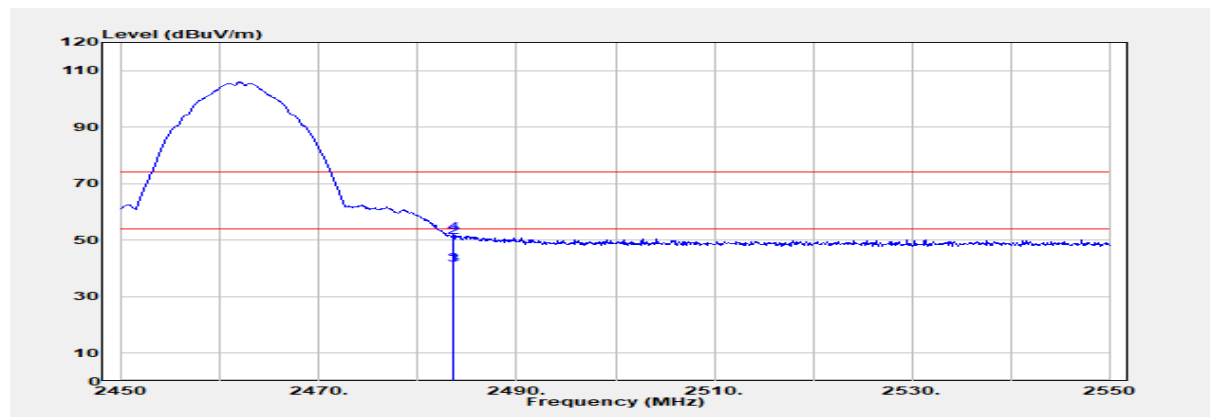
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	43.42	-2.06	41.36	54.00	-12.64
2483.500	Peak	53.10	-2.06	51.04	74.00	-22.96
2483.600	Average	43.24	-2.06	41.19	54.00	-12.81
2483.600	Peak	54.54	-2.06	52.48	74.00	-21.52

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2462 MHz

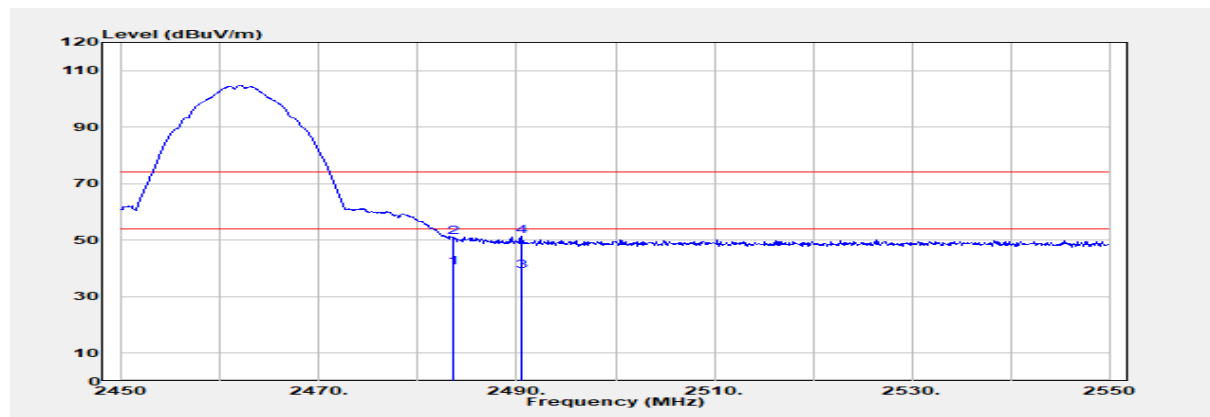
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	42.29	-2.06	40.23	54.00	-13.77
2483.500	Peak	53.05	-2.06	51.00	74.00	-23.00
2490.400	Average	41.03	-2.06	38.96	54.00	-15.04
2490.400	Peak	53.55	-2.06	51.49	74.00	-22.51

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2412 MHz

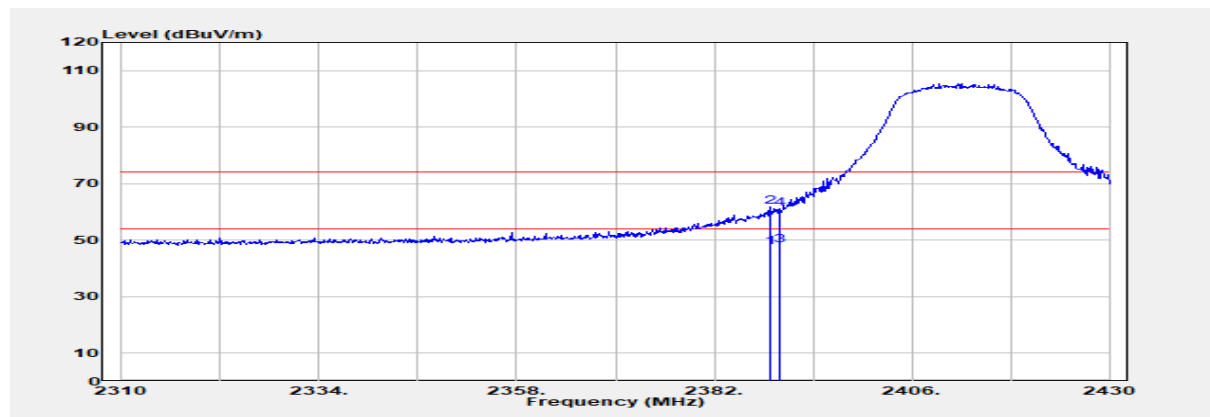
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2388.720	Average	49.56	-2.15	47.41	54.00	-6.59
2388.720	Peak	63.78	-2.15	61.63	74.00	-12.37
2390.000	Average	50.34	-2.15	48.19	54.00	-5.81
2390.000	Peak	63.40	-2.15	61.24	74.00	-12.76

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2412 MHz

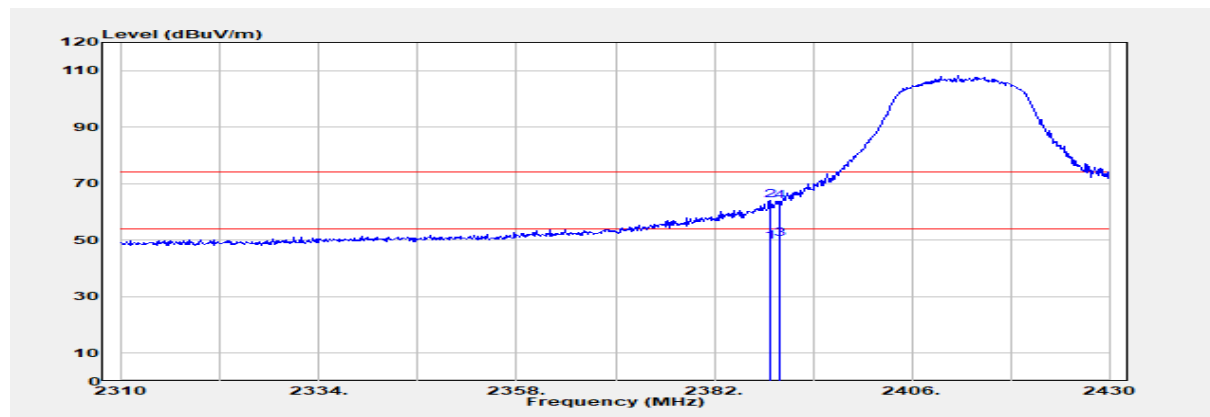
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.840	Average	51.65	-2.15	49.50	54.00	-4.50
2388.840	Peak	66.29	-2.15	64.14	74.00	-9.86
2390.000	Average	52.56	-2.15	50.41	54.00	-3.59
2390.000	Peak	65.85	-2.15	63.70	74.00	-10.30

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2417 MHz

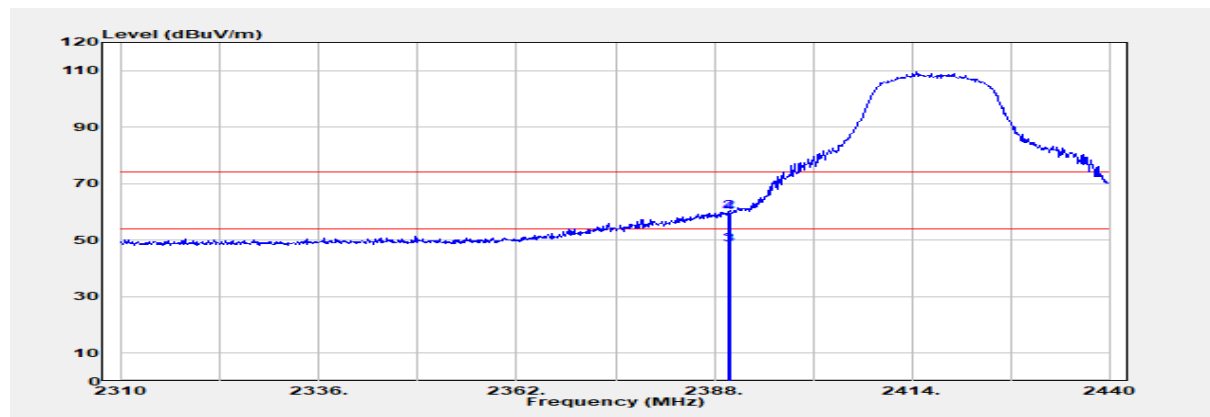
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.820	Average	50.55	-2.15	48.40	54.00	-5.60
2389.820	Peak	62.44	-2.15	60.29	74.00	-13.71
2390.000	Average	50.75	-2.15	48.60	54.00	-5.40
2390.000	Peak	62.06	-2.15	59.91	74.00	-14.09

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2417 MHz

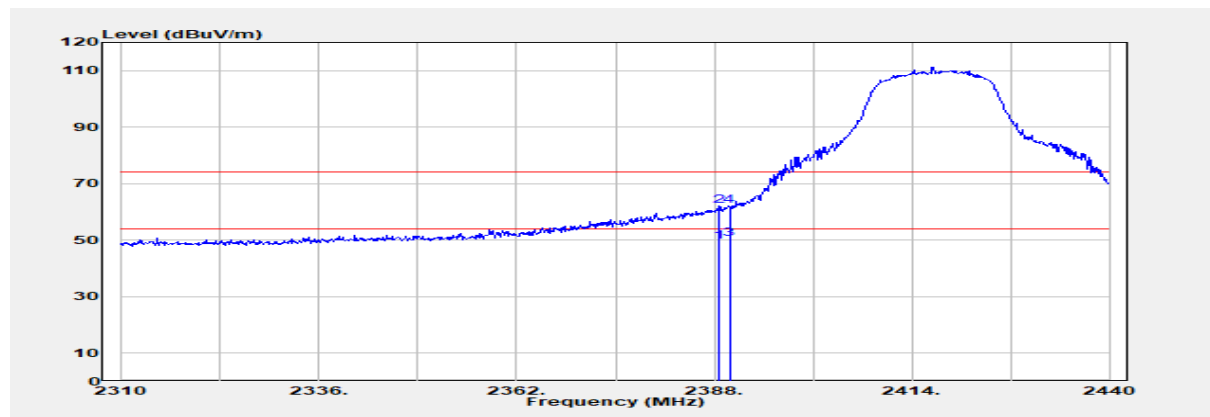
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.650	Average	51.63	-2.15	49.48	54.00	-4.52
2388.650	Peak	64.25	-2.15	62.10	74.00	-11.90
2390.000	Average	52.44	-2.15	50.29	54.00	-3.71
2390.000	Peak	64.17	-2.15	62.02	74.00	-11.98

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2457 MHz

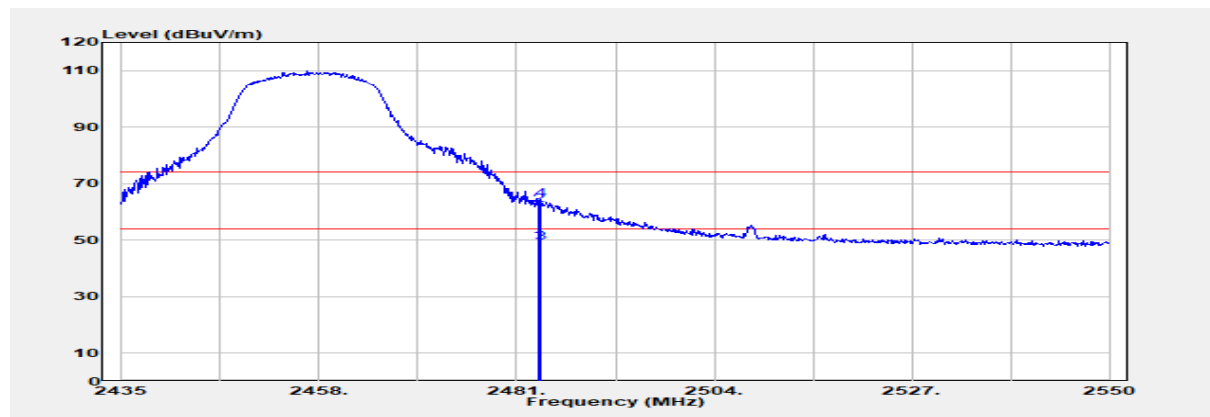
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.57	-2.06	49.51	54.00	-4.49
2483.500	Peak	64.41	-2.06	62.35	74.00	-11.65
2483.875	Average	51.29	-2.06	49.23	54.00	-4.77
2483.875	Peak	66.45	-2.06	64.39	74.00	-9.61

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Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2457 MHz

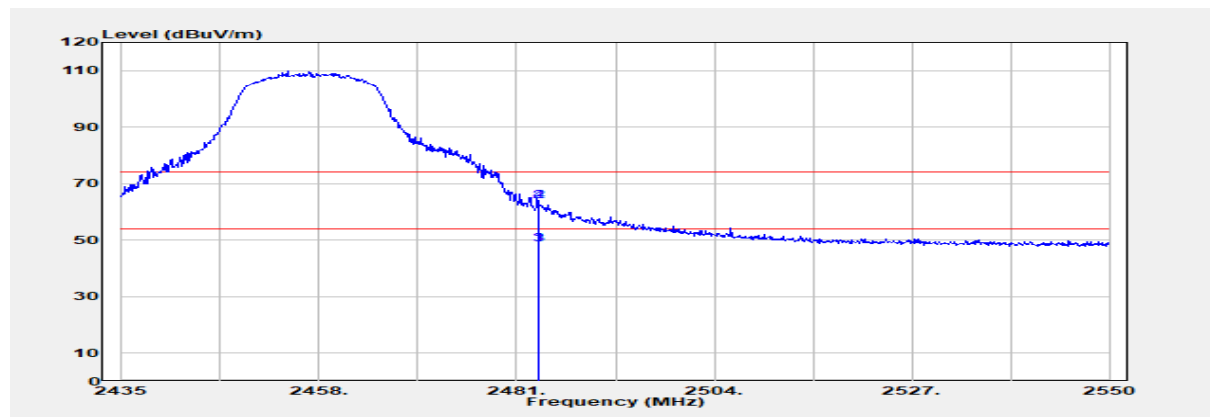
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	50.49	-2.06	48.43	54.00	-5.57
2483.500	Peak	65.73	-2.06	63.67	74.00	-10.33
2483.530	Average	50.46	-2.06	48.41	54.00	-5.59
2483.530	Peak	65.73	-2.06	63.67	74.00	-10.33

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2462 MHz

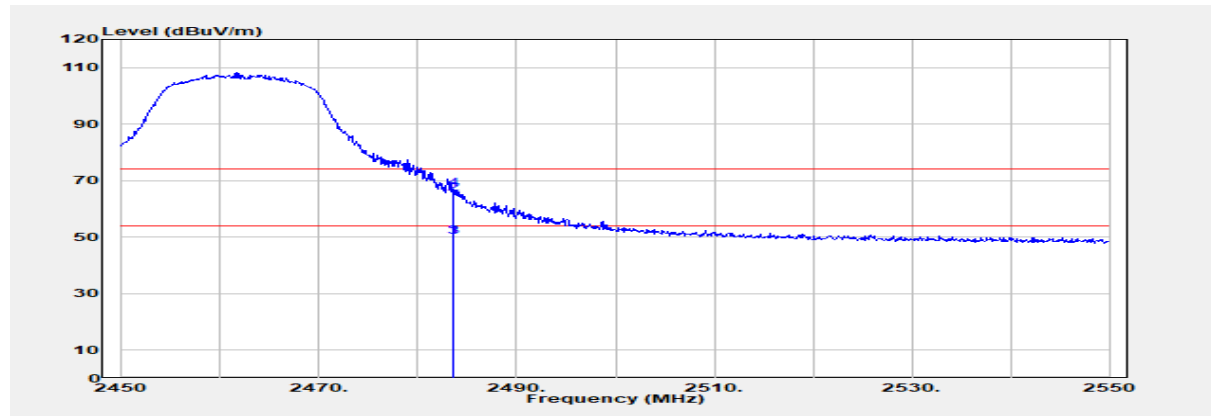
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	52.12	-2.06	50.07	54.00	-3.93
2483.500	Peak	67.41	-2.06	65.35	74.00	-8.65
2483.600	Average	52.08	-2.06	50.02	54.00	-3.98
2483.600	Peak	69.14	-2.06	67.08	74.00	-6.92

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2462 MHz

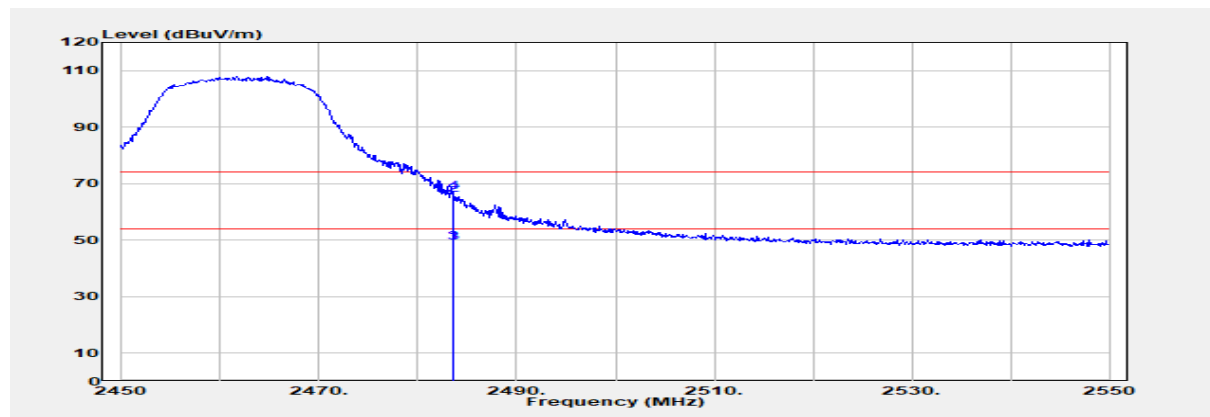
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	51.04	-2.06	48.98	54.00	-5.02
2483.500	Peak	68.04	-2.06	65.98	74.00	-8.02
2483.600	Average	51.16	-2.06	49.10	54.00	-4.90
2483.600	Peak	68.96	-2.06	66.91	74.00	-7.09

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2412 MHz

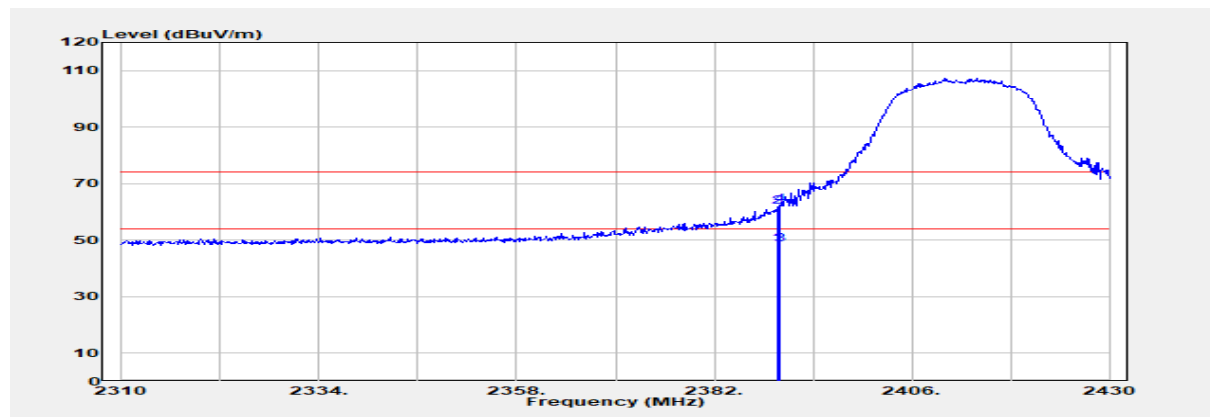
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.800	Average	50.60	-2.15	48.45	54.00	-5.55
2389.800	Peak	64.04	-2.15	61.89	74.00	-12.11
2390.000	Average	50.54	-2.15	48.39	54.00	-5.61
2390.000	Peak	64.60	-2.15	62.45	74.00	-11.55

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2412 MHz

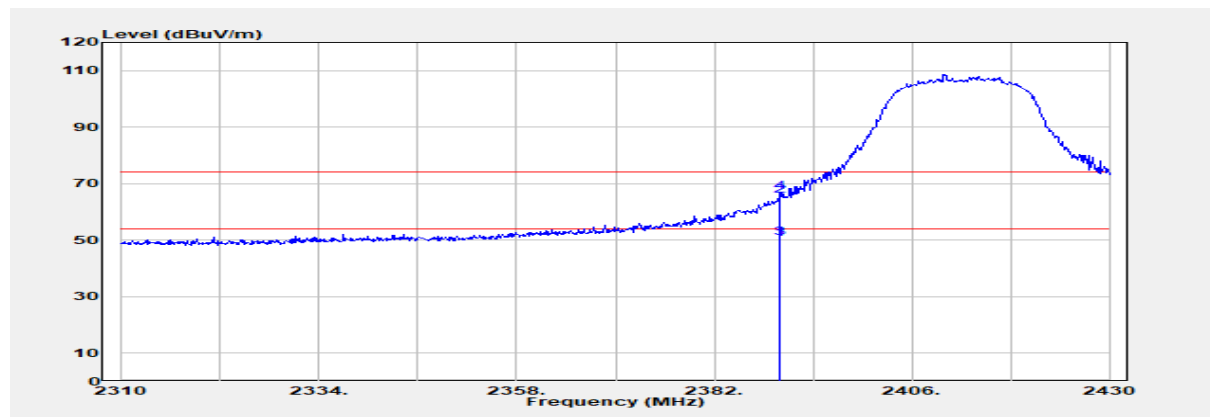
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.920	Average	52.71	-2.15	50.56	54.00	-3.44
2389.920	Peak	67.70	-2.15	65.55	74.00	-8.45
2390.000	Average	52.76	-2.15	50.61	54.00	-3.39
2390.000	Peak	69.13	-2.15	66.98	74.00	-7.02

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2417 MHz

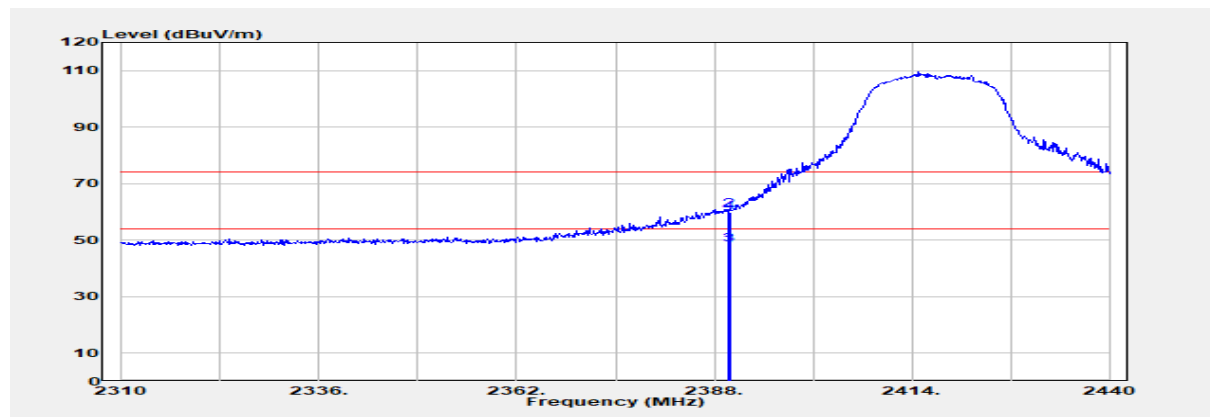
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.820	Average	50.34	-2.15	48.19	54.00	-5.81
2389.820	Peak	63.07	-2.15	60.92	74.00	-13.08
2390.000	Average	50.74	-2.15	48.59	54.00	-5.41
2390.000	Peak	62.04	-2.15	59.88	74.00	-14.12

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2417 MHz

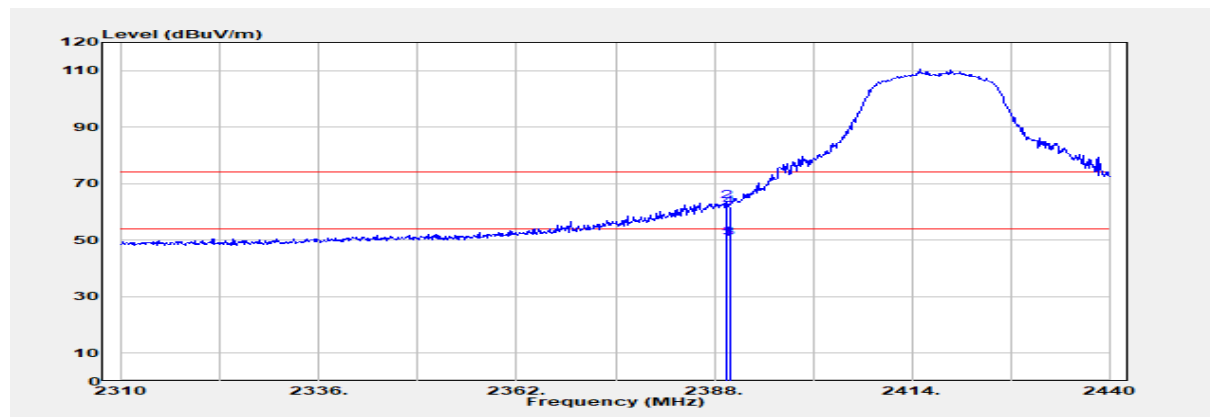
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.690	Average	52.62	-2.15	50.47	54.00	-3.53
2389.690	Peak	65.79	-2.15	63.64	74.00	-10.36
2390.000	Average	52.77	-2.15	50.62	54.00	-3.38
2390.000	Peak	64.02	-2.15	61.87	74.00	-12.13

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2457 MHz

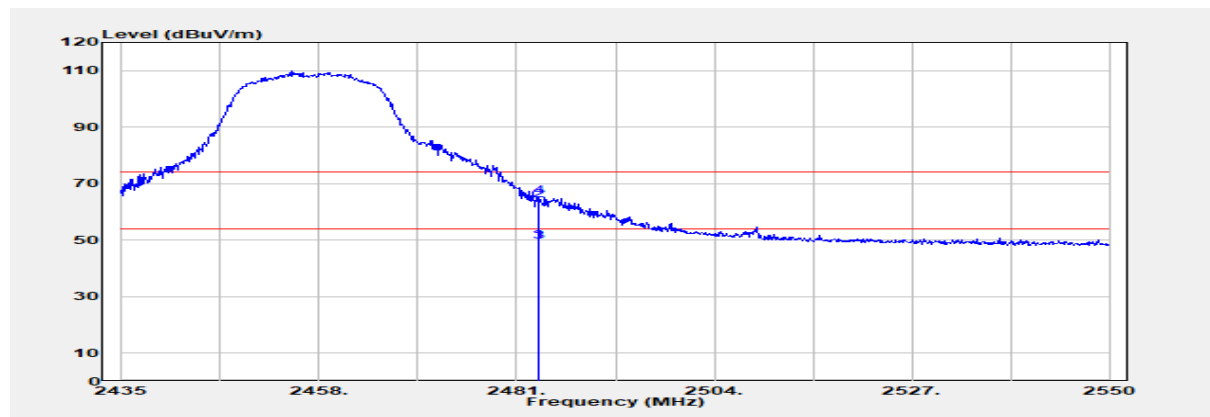
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	51.52	-2.06	49.46	54.00	-4.54
2483.500	Peak	66.23	-2.06	64.17	74.00	-9.83
2483.645	Average	51.37	-2.06	49.31	54.00	-4.69
2483.645	Peak	67.40	-2.06	65.34	74.00	-8.66

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2457 MHz

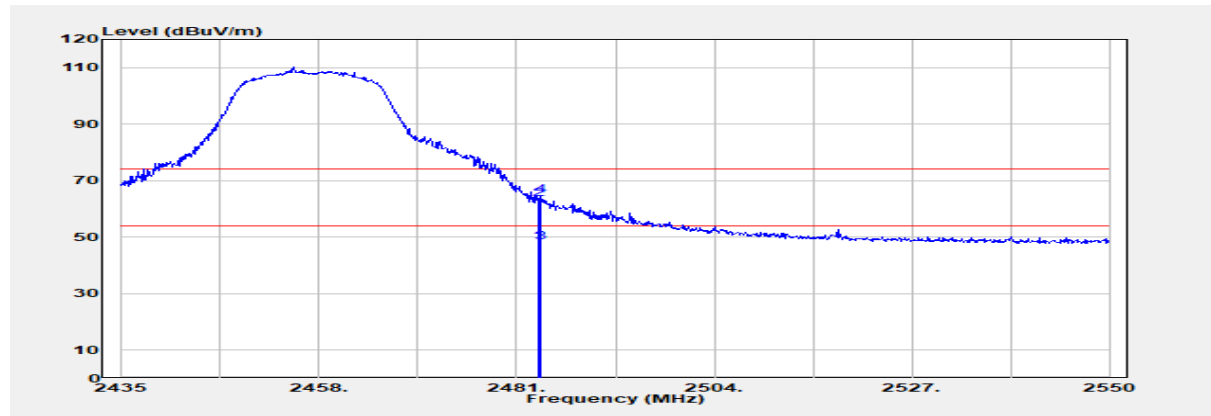
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	50.17	-2.06	48.11	54.00	-5.89
2483.500	Peak	65.36	-2.06	63.30	74.00	-10.70
2483.875	Average	50.11	-2.06	48.06	54.00	-5.94
2483.875	Peak	66.88	-2.06	64.82	74.00	-9.18

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2462 MHz

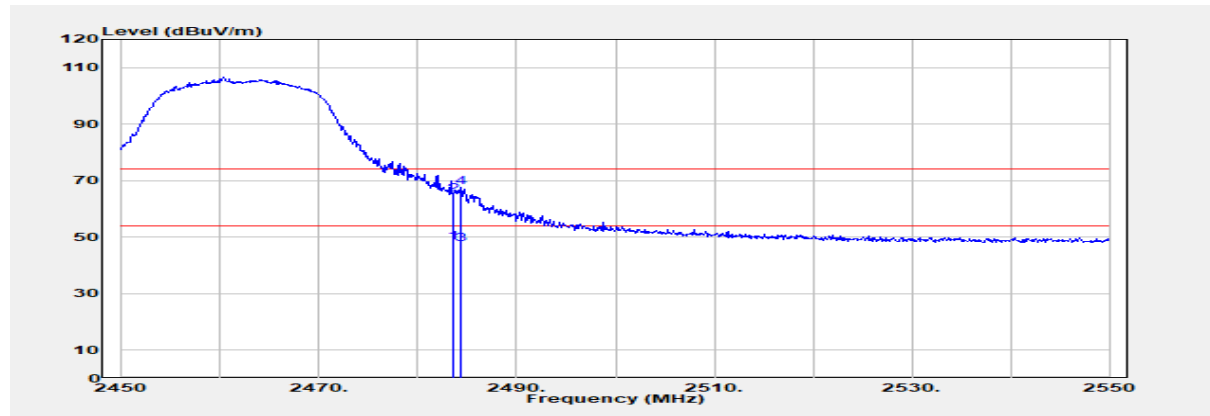
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	50.31	-2.06	48.25	54.00	-5.75
2483.500	Peak	67.04	-2.06	64.98	74.00	-9.02
2484.400	Average	49.53	-2.06	47.47	54.00	-6.53
2484.400	Peak	69.78	-2.06	67.72	74.00	-6.28

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2462 MHz

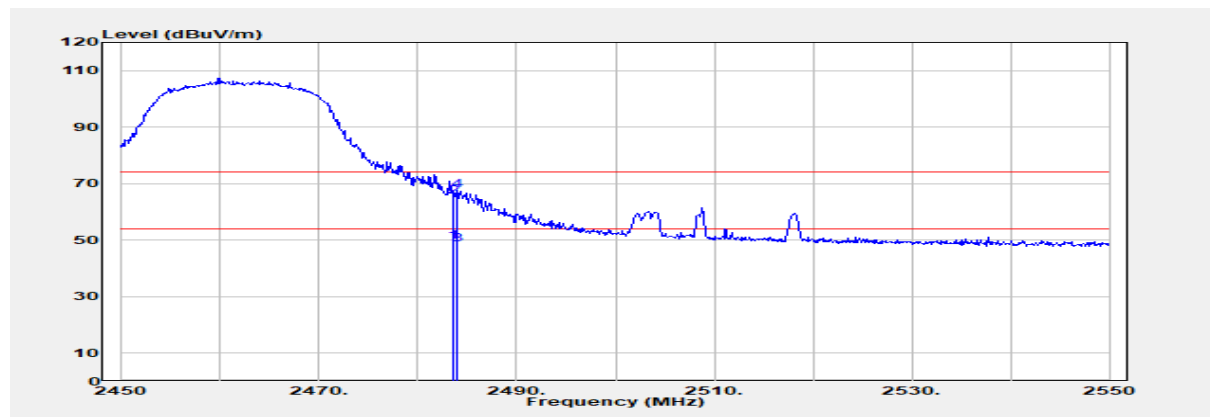
Temp./Humi. :20.9°C/59%

Test Mode :Bandedge

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
2483.500	Average	51.38	-2.06	49.32	54.00	-4.68
2483.500	Peak	67.42	-2.06	65.37	74.00	-8.63
2484.000	Average	50.60	-2.06	48.54	54.00	-5.46
2484.000	Peak	69.58	-2.06	67.52	74.00	-6.48

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**11.6.2 Spurious Emission:**1<sup>st</sup>

Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2437 MHz

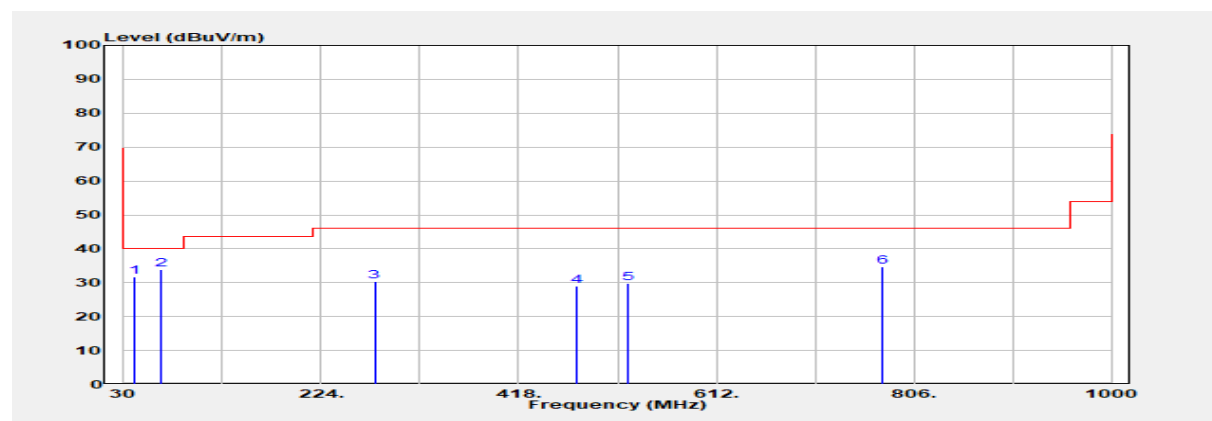
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
40.670	Peak	46.02	-14.26	31.76	40.00	-8.24
66.860	Peak	49.13	-15.20	33.93	40.00	-6.07
276.380	Peak	43.81	-13.33	30.48	46.00	-15.52
475.230	Peak	37.36	-8.38	28.98	46.00	-17.02
524.700	Peak	36.78	-6.90	29.88	46.00	-16.12
774.960	Peak	35.99	-1.33	34.67	46.00	-11.33

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2437 MHz

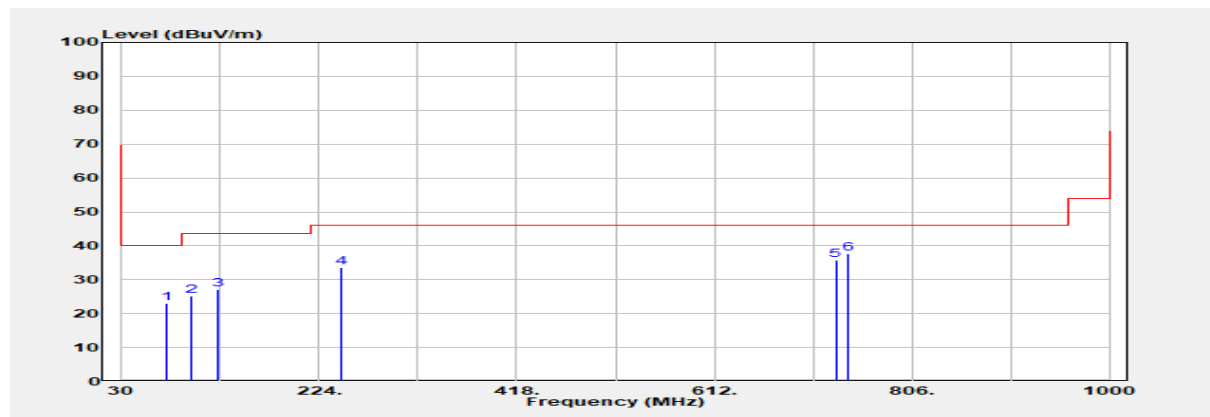
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
74.620	Peak	39.85	-16.76	23.09	40.00	-16.91
98.870	Peak	43.41	-18.09	25.32	43.50	-18.18
125.060	Peak	42.45	-15.39	27.06	43.50	-16.44
245.340	Peak	48.05	-14.35	33.70	46.00	-12.30
731.310	Peak	38.54	-2.64	35.90	46.00	-10.10
742.950	Peak	40.53	-2.94	37.59	46.00	-8.41

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2<sup>nd</sup>

Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-12-08

Test Frequency :2437 MHz

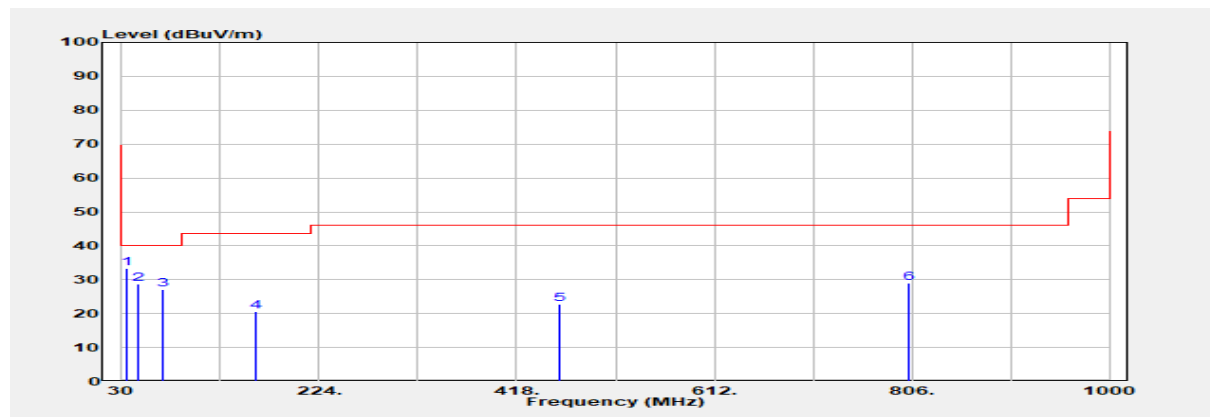
Temp./Humi. :20.2°C/70%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
34.850	Peak	50.06	-16.79	33.27	40.00	-6.73
45.520	Peak	44.12	-15.26	28.86	40.00	-11.14
69.770	Peak	44.98	-17.92	27.06	40.00	-12.94
161.920	Peak	35.73	-15.25	20.48	43.50	-23.02
460.680	Peak	32.09	-9.30	22.79	46.00	-23.21
803.090	Peak	31.42	-2.44	28.98	46.00	-17.02

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-12-08

Test Frequency :2437 MHz

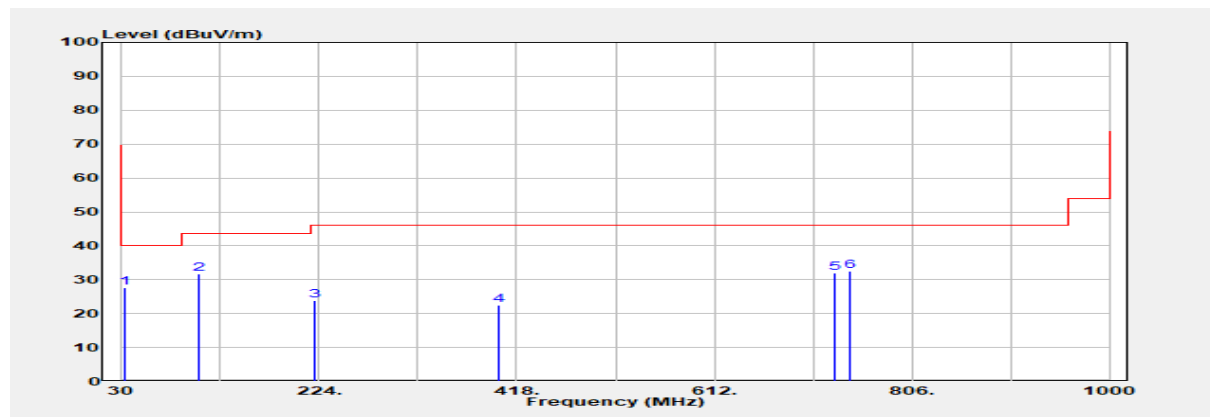
Temp./Humi. :20.2°C/70%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
33.880	Peak	44.40	-16.87	27.53	40.00	-12.47
105.660	Peak	50.83	-19.15	31.69	43.50	-11.81
219.150	Peak	42.06	-18.31	23.75	46.00	-22.25
400.540	Peak	33.63	-11.18	22.46	46.00	-23.54
730.340	Peak	35.80	-3.88	31.92	46.00	-14.08
745.860	Peak	35.71	-3.21	32.50	46.00	-13.50

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2412 MHz

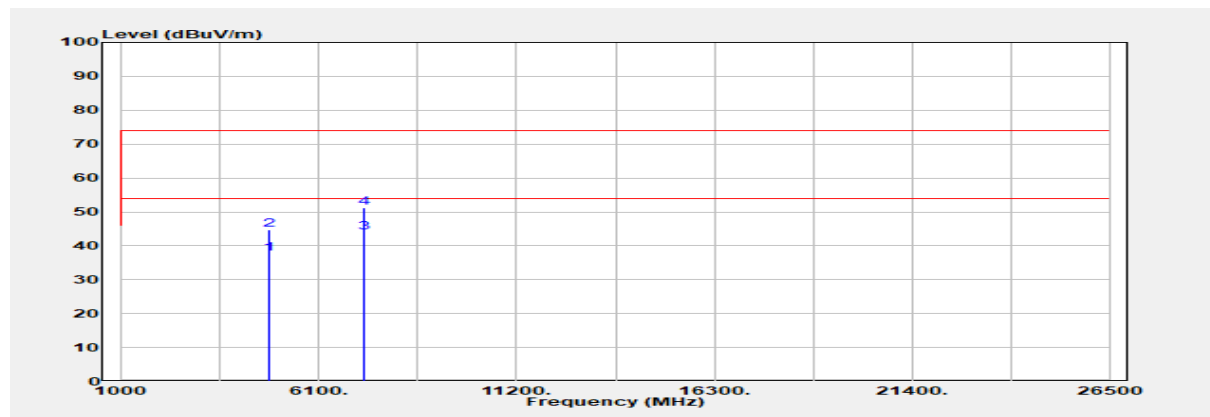
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4824.000	Average	34.39	3.35	37.74	54.00	-16.26
4824.000	Peak	41.47	3.35	44.82	74.00	-29.18
7236.000	Average	33.66	10.34	44.01	54.00	-9.99
7236.000	Peak	40.95	10.34	51.29	74.00	-22.71

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2412 MHz

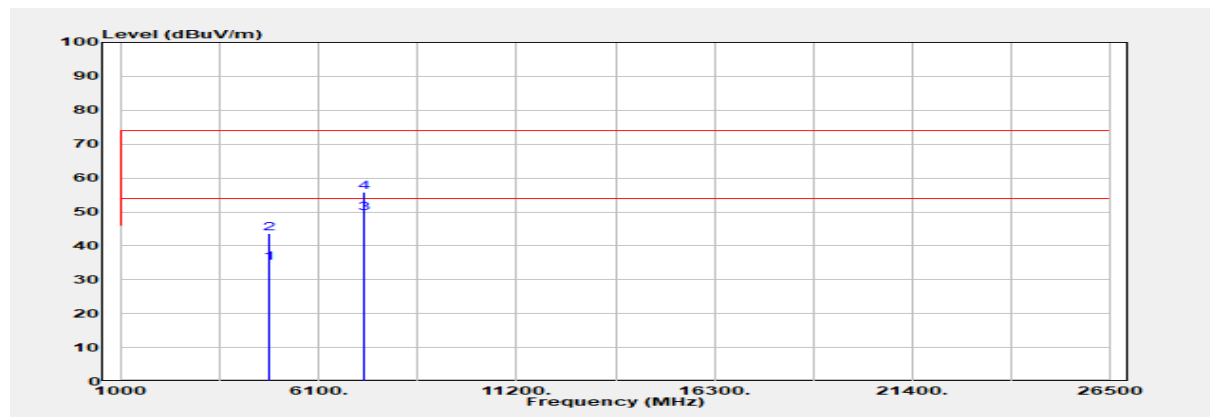
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4824.000	Average	31.55	3.35	34.90	54.00	-19.10
4824.000	Peak	40.33	3.35	43.68	74.00	-30.32
7236.000	Average	39.30	10.34	49.65	54.00	-4.35
7236.000	Peak	45.53	10.34	55.87	74.00	-18.13

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2437 MHz

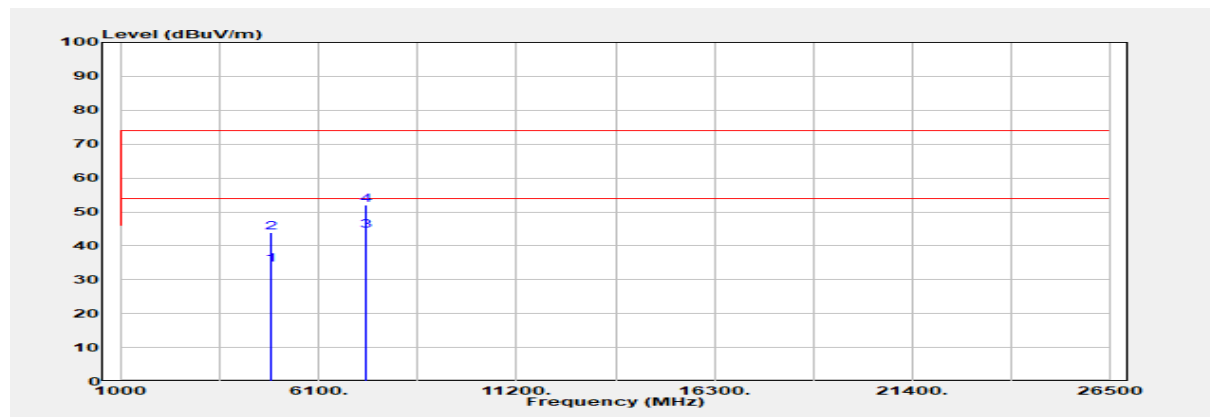
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4874.000	Average	31.17	3.30	34.48	54.00	-19.52
4874.000	Peak	40.61	3.30	43.91	74.00	-30.09
7311.000	Average	34.30	10.13	44.44	54.00	-9.56
7311.000	Peak	41.99	10.13	52.12	74.00	-21.88

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2437 MHz

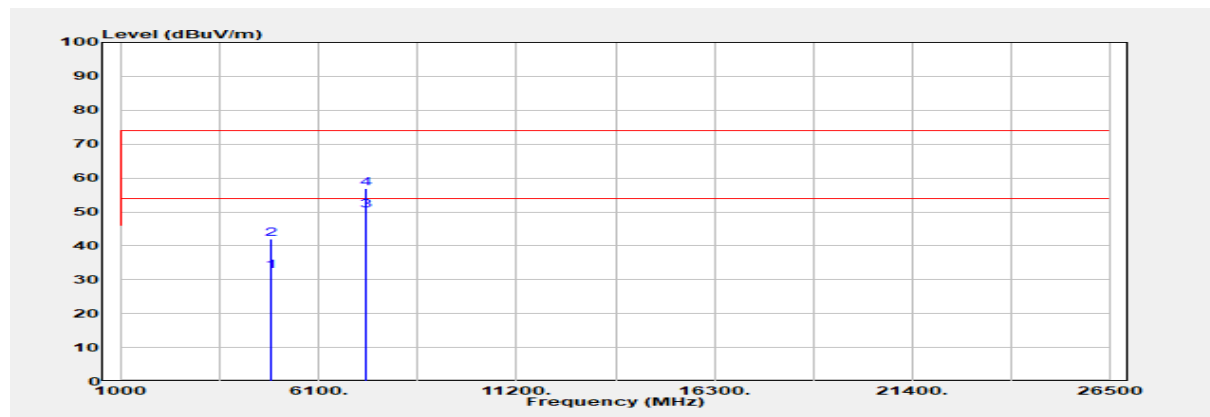
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	29.23	3.30	32.54	54.00	-21.46
4874.000	Peak	38.79	3.30	42.09	74.00	-31.91
7311.000	Average	40.38	10.13	50.51	54.00	-3.49
7311.000	Peak	46.66	10.13	56.79	74.00	-17.21

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2462 MHz

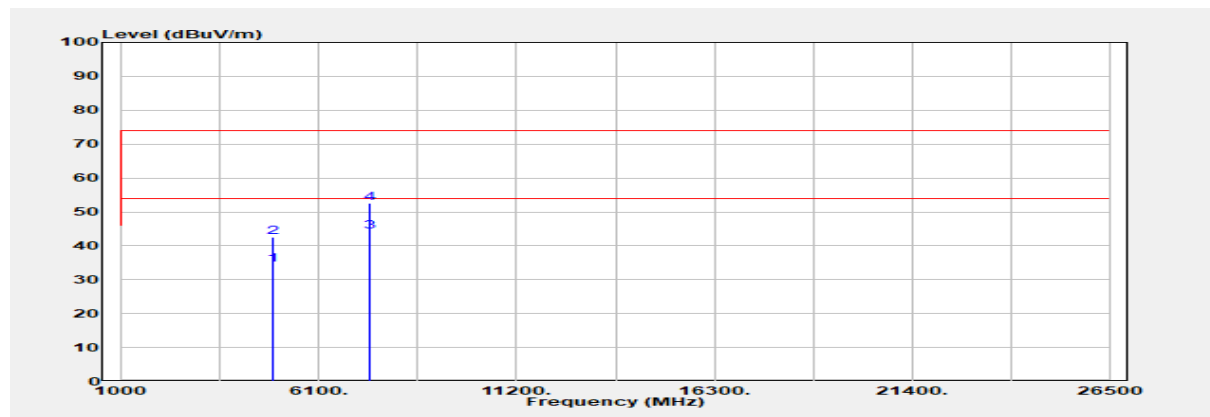
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.000	Average	31.29	3.25	34.53	54.00	-19.47
4924.000	Peak	39.16	3.25	42.41	74.00	-31.59
7386.000	Average	33.44	10.60	44.04	54.00	-9.96
7386.000	Peak	41.99	10.60	52.59	74.00	-21.41

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11b

Test Date :2023-10-31

Test Frequency :2462 MHz

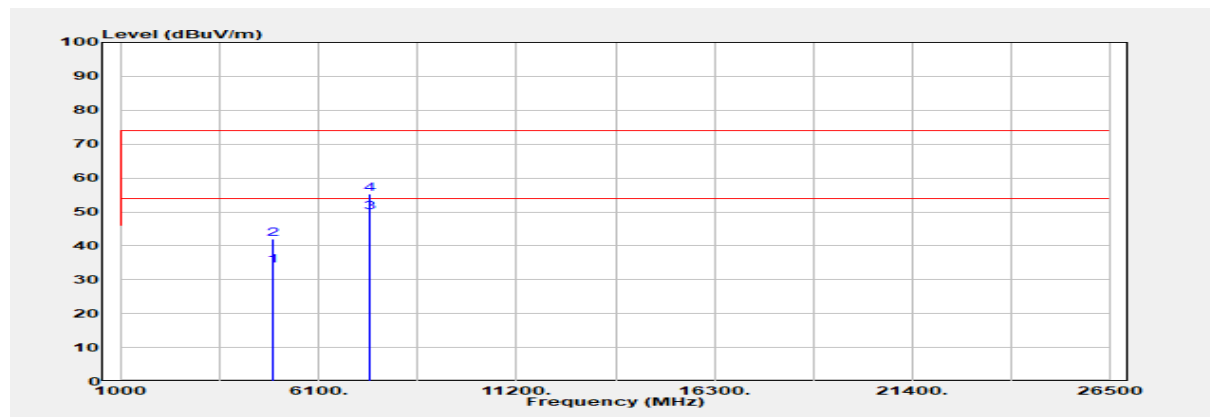
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.000	Average	30.91	3.25	34.15	54.00	-19.85
4924.000	Peak	38.87	3.25	42.12	74.00	-31.88
7386.000	Average	39.38	10.60	49.98	54.00	-4.03
7386.000	Peak	44.69	10.60	55.29	74.00	-18.71

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2412 MHz

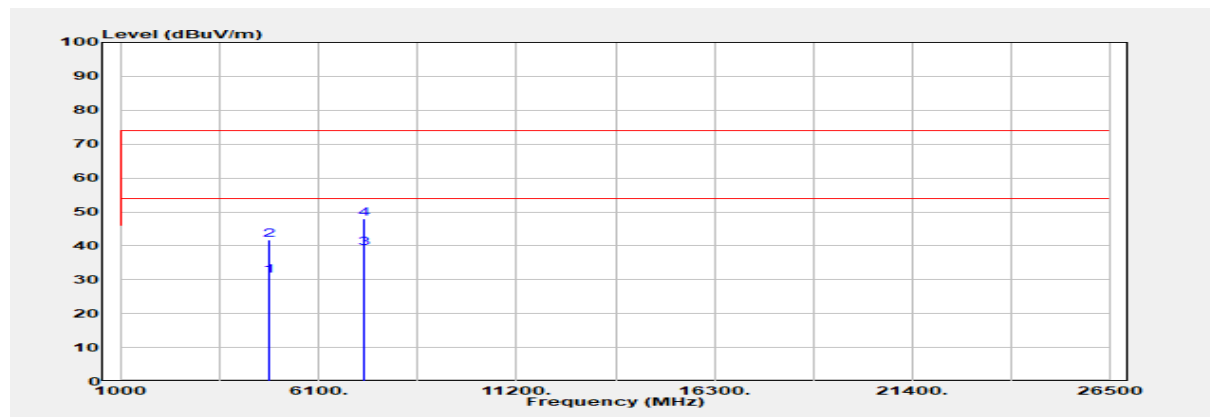
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4824.000	Average	27.80	3.35	31.15	54.00	-22.85
4824.000	Peak	38.38	3.35	41.73	74.00	-32.27
7236.000	Average	28.92	10.34	39.26	54.00	-14.74
7236.000	Peak	37.57	10.34	47.91	74.00	-26.09

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2412 MHz

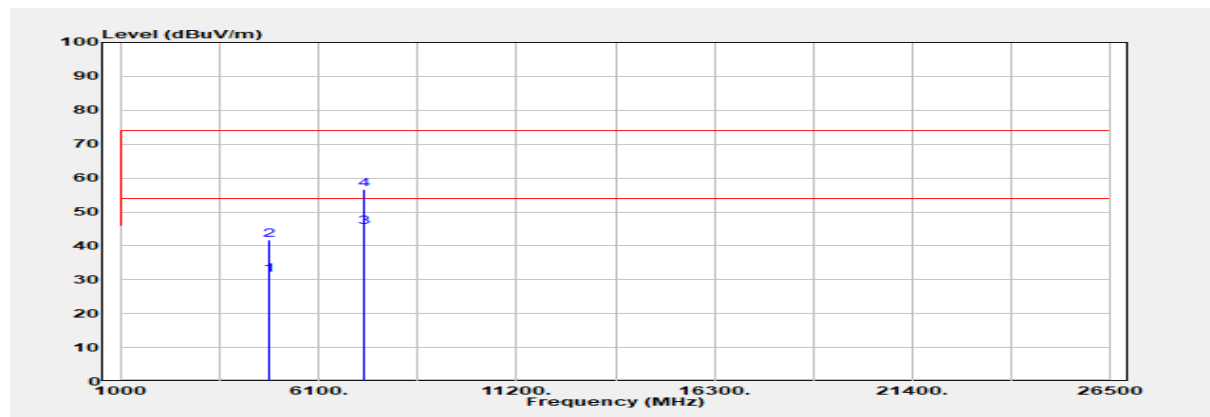
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4824.000	Average	28.11	3.35	31.46	54.00	-22.54
4824.000	Peak	38.39	3.35	41.73	74.00	-32.27
7236.000	Average	35.08	10.34	45.42	54.00	-8.58
7236.000	Peak	46.24	10.34	56.58	74.00	-17.42

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2437 MHz

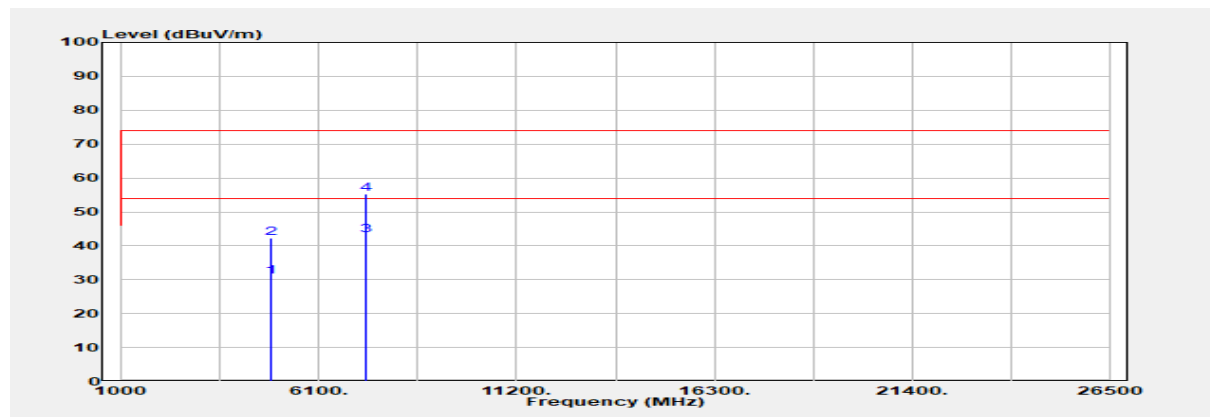
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	27.49	3.30	30.79	54.00	-23.21
4874.000	Peak	38.97	3.30	42.28	74.00	-31.72
7311.000	Average	32.90	10.13	43.03	54.00	-10.97
7311.000	Peak	45.12	10.13	55.25	74.00	-18.75

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2437 MHz

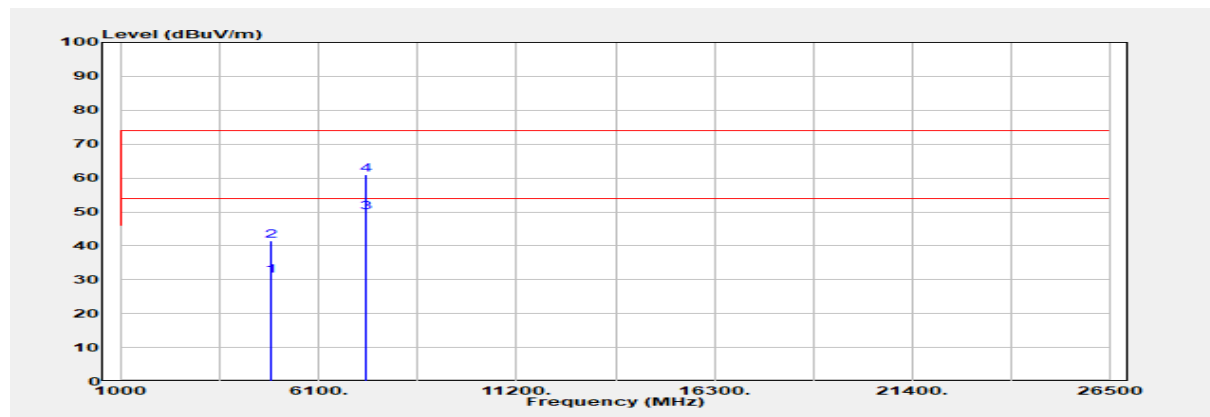
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4874.000	Average	27.84	3.30	31.14	54.00	-22.86
4874.000	Peak	38.19	3.30	41.49	74.00	-32.51
7311.000	Average	39.65	10.13	49.78	54.00	-4.22
7311.000	Peak	50.81	10.13	60.94	74.00	-13.06

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2462 MHz

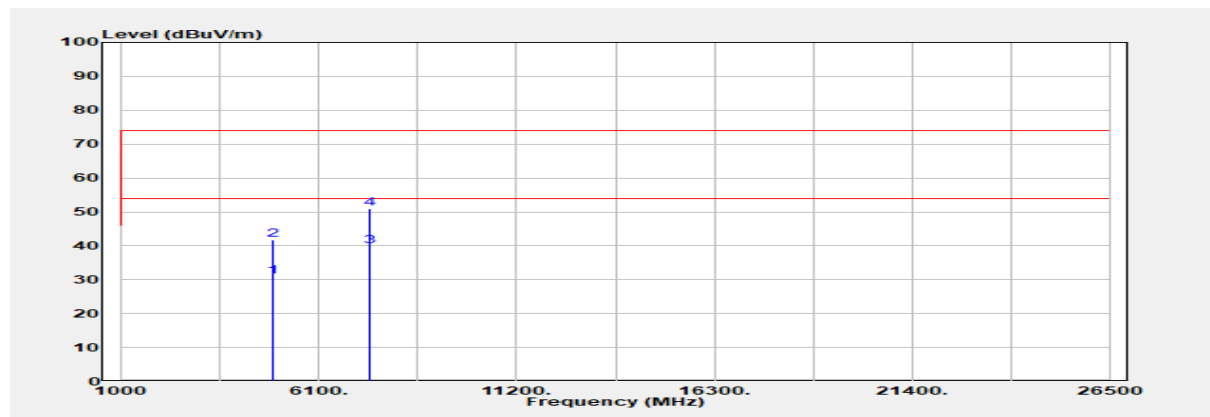
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.55	3.25	30.80	54.00	-23.20
4924.000	Peak	38.47	3.25	41.72	74.00	-32.28
7386.000	Average	29.21	10.60	39.81	54.00	-14.19
7386.000	Peak	40.32	10.60	50.92	74.00	-23.08

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11g

Test Date :2023-10-31

Test Frequency :2462 MHz

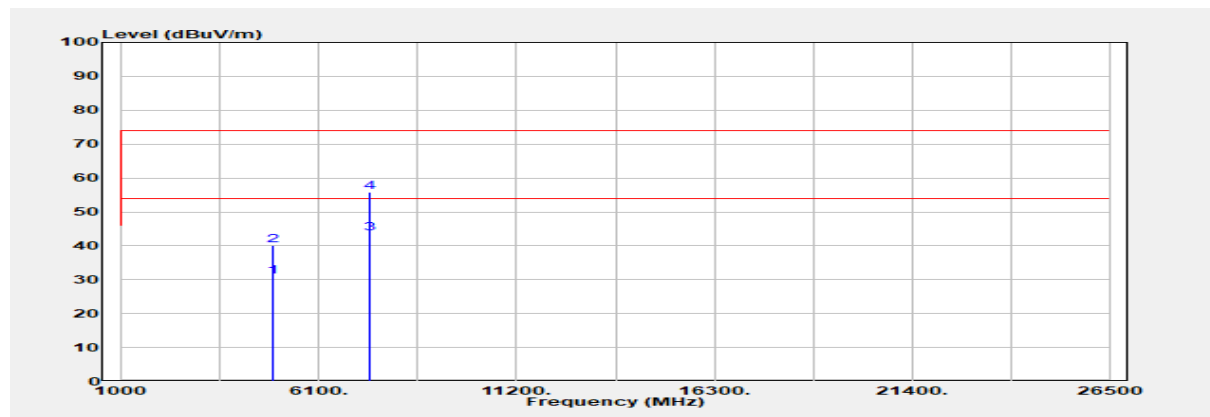
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4924.000	Average	27.77	3.25	31.01	54.00	-22.99
4924.000	Peak	36.85	3.25	40.10	74.00	-33.90
7386.000	Average	33.15	10.60	43.75	54.00	-10.26
7386.000	Peak	45.20	10.60	55.80	74.00	-18.20

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2412 MHz

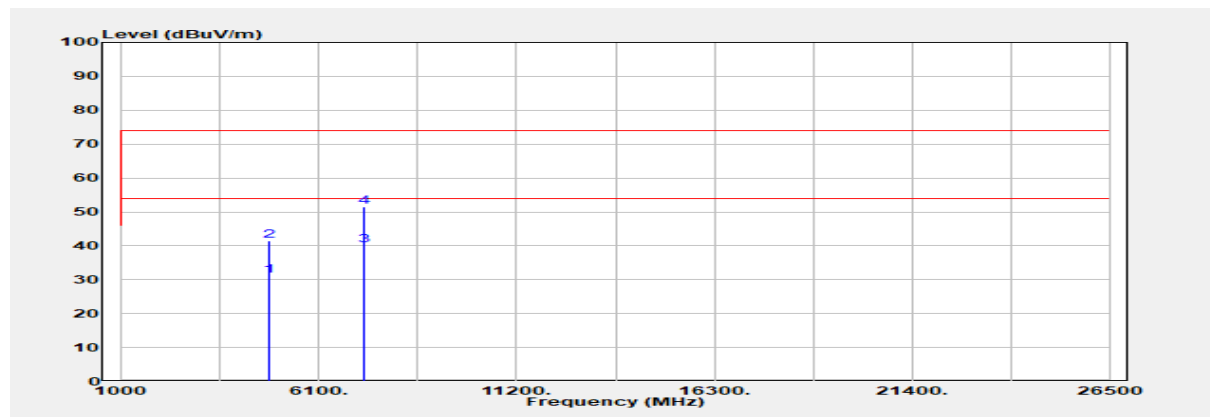
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	27.81	3.35	31.15	54.00	-22.85
4824.000	Peak	38.20	3.35	41.55	74.00	-32.45
7236.000	Average	29.69	10.34	40.03	54.00	-13.97
7236.000	Peak	41.10	10.34	51.44	74.00	-22.56

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2412 MHz

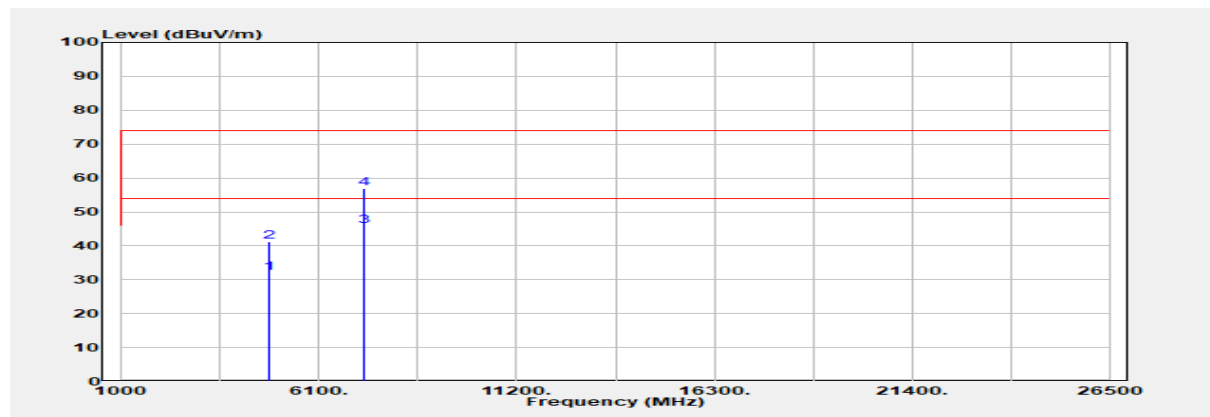
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.000	Average	28.58	3.35	31.93	54.00	-22.07
4824.000	Peak	37.88	3.35	41.23	74.00	-32.77
7236.000	Average	35.37	10.34	45.72	54.00	-8.28
7236.000	Peak	46.45	10.34	56.79	74.00	-17.21

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2437 MHz

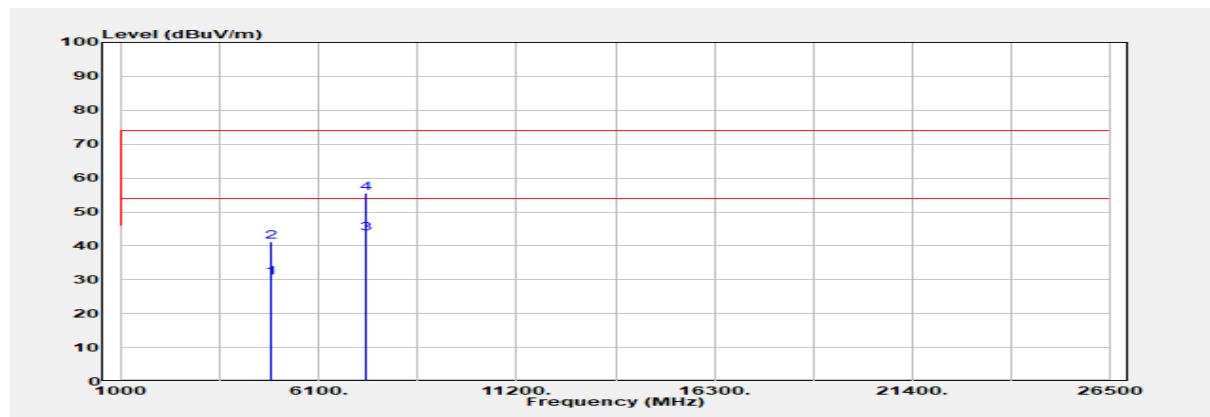
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.000	Average	27.38	3.30	30.68	54.00	-23.32
4874.000	Peak	37.97	3.30	41.27	74.00	-32.73
7311.000	Average	33.37	10.13	43.50	54.00	-10.50
7311.000	Peak	45.42	10.13	55.55	74.00	-18.45

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2437 MHz

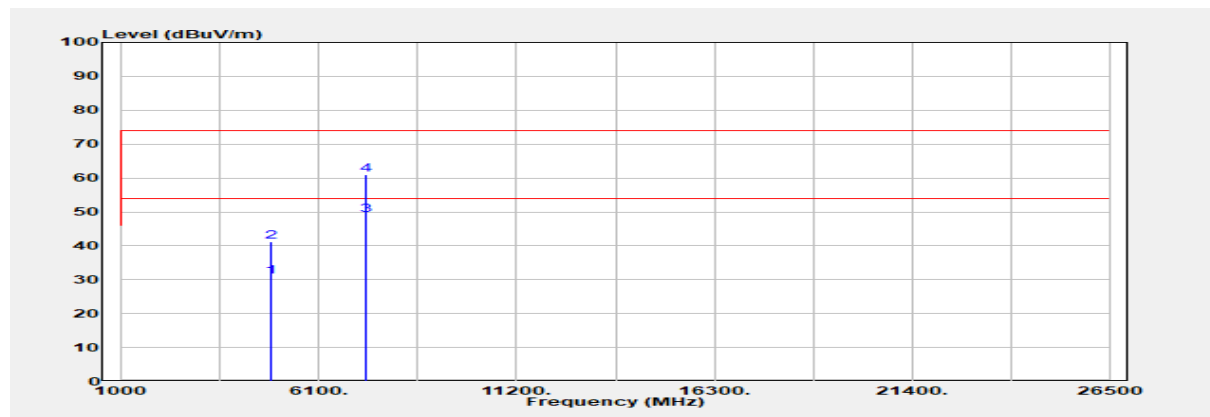
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
4874.000	Average	27.66	3.30	30.97	54.00	-23.03
4874.000	Peak	37.86	3.30	41.16	74.00	-32.84
7311.000	Average	38.96	10.13	49.09	54.00	-4.91
7311.000	Peak	50.82	10.13	60.96	74.00	-13.04

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2462 MHz

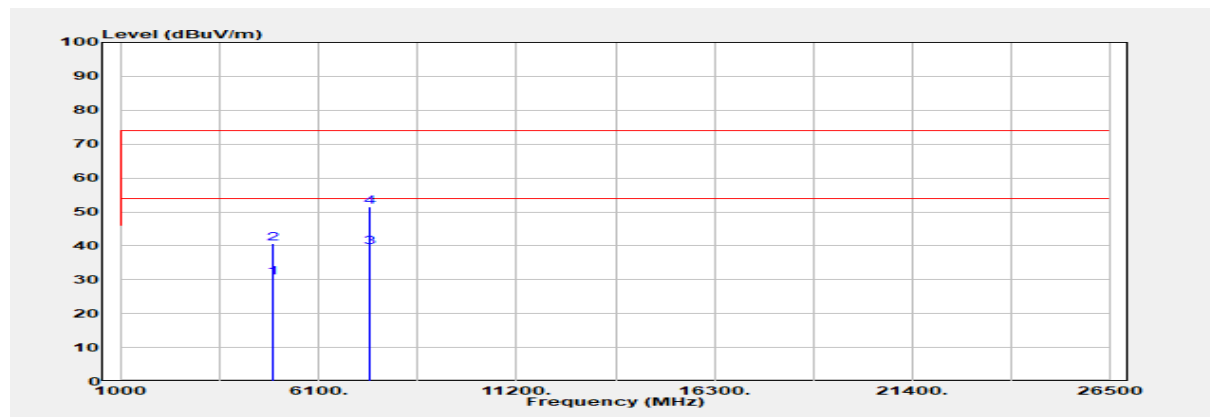
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Vertical

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.47	3.25	30.72	54.00	-23.28
4924.000	Peak	37.53	3.25	40.77	74.00	-33.23
7386.000	Average	29.03	10.60	39.63	54.00	-14.37
7386.000	Peak	40.95	10.60	51.55	74.00	-22.45

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Report Number :TERF2310002707E2

Test Site :SAC C

Operation Mode :802.11n20

Test Date :2023-10-31

Test Frequency :2462 MHz

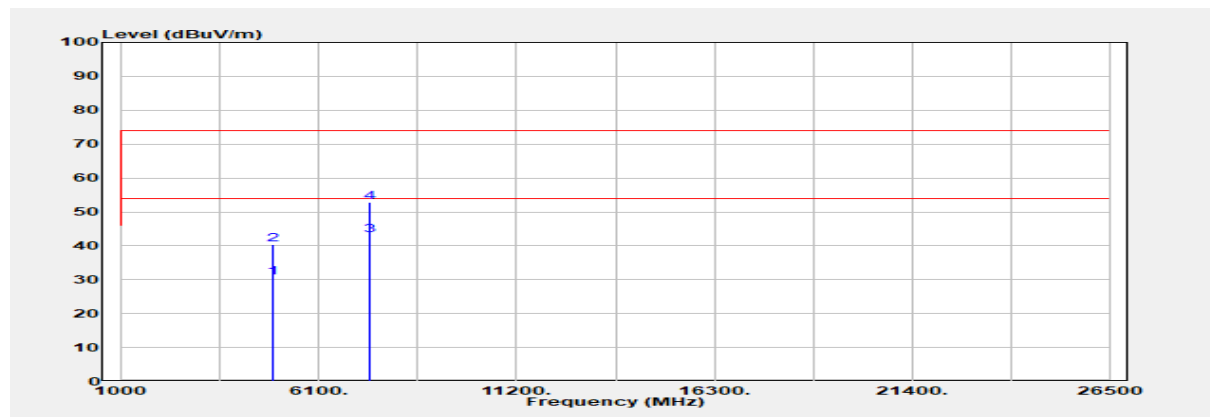
Temp./Humi. :20.9°C/61%

Test Mode :Tx

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Andy Wang



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.000	Average	27.39	3.25	30.64	54.00	-23.36
4924.000	Peak	37.04	3.25	40.29	74.00	-33.71
7386.000	Average	32.42	10.60	43.02	54.00	-10.99
7386.000	Peak	42.38	10.60	52.98	74.00	-21.02

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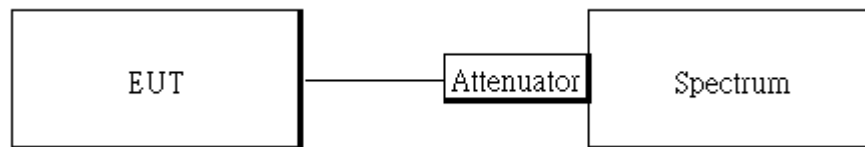
## 12 POWER SPECTRAL DENSITY

### 12.1 Standard Applicable

Per Part 15.247 (e) & RSS-247 section 5.2 b

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.

### 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.

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## 12.4 Power spectral density

POWER DENSITY 802.11b				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-4.41	-4.41	8.00	PASS
2437	-4.02	-4.02	8.00	PASS
2462	-3.57	-3.57	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.2	-9.20	8.00	PASS
2437	-6.59	-6.59	8.00	PASS
2462	-8.71	-8.71	8.00	PASS

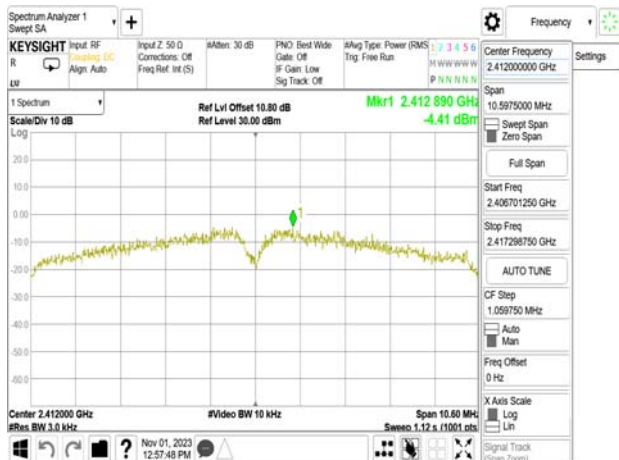
POWER DENSITY 802.11n HT20				
Freq. (MHz)	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.79	-8.79	8.00	PASS
2437	-5.58	-5.58	8.00	PASS
2462	-9.14	-9.14	8.00	PASS

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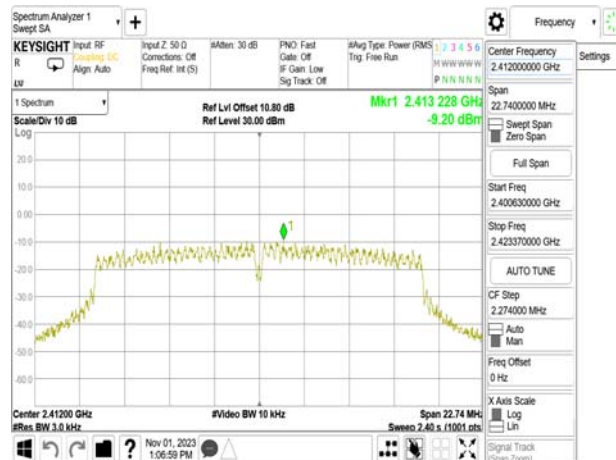
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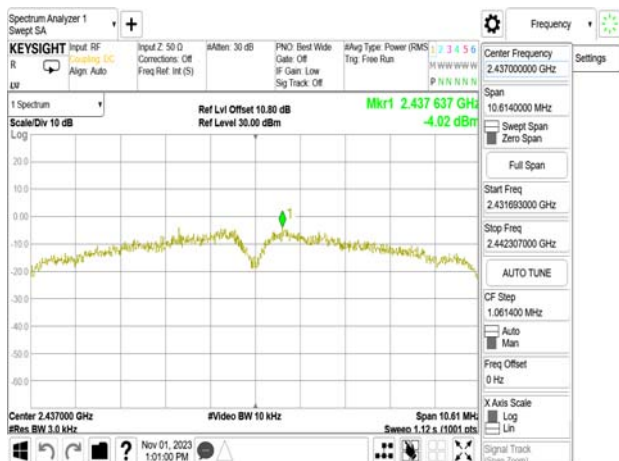
802.11b\_20MHz\_Chain0\_2412MHz



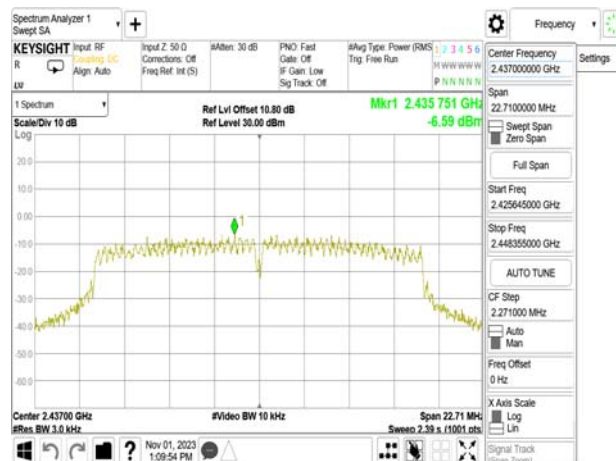
802.11g\_20MHz\_Chain0\_2412MHz



802.11b\_20MHz\_Chain0\_2437MHz



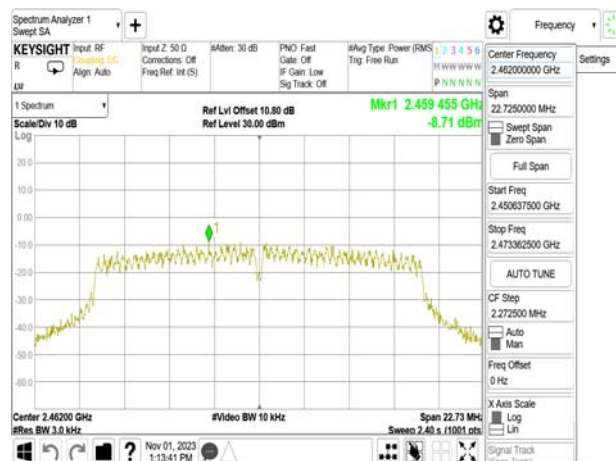
802.11g\_20MHz\_Chain0\_2437MHz



802.11b\_20MHz\_Chain0\_2462MHz



802.11g\_20MHz\_Chain0\_2462MHz

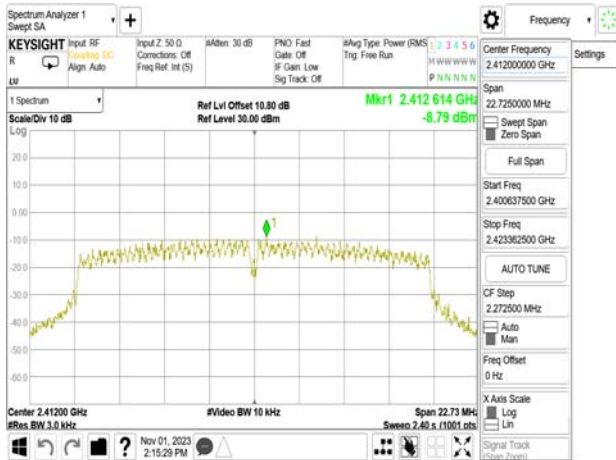


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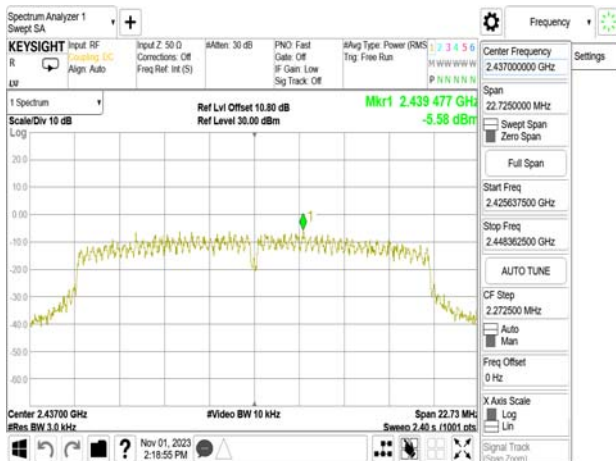
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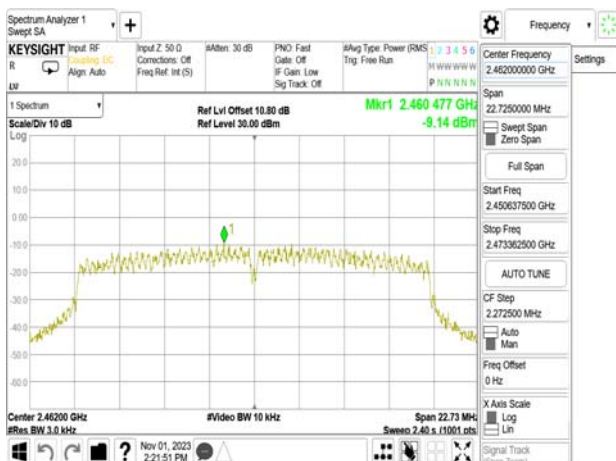
802.11n\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2437MHz



802.11n\_20MHz\_Chain0\_2462MHz



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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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