

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description Doorbell

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

Brand Name: blink

Model No. / ISED HVIN: BDM00300U

ISED PMN: BDM00300U

Report Number: TERF2503000970E2

FCC ID 2AF77-H2441840

IC: 20741-H2441840

Date of EUT Received: March 6, 2025

Date of Test: January 15, 2025 ~ April 21, 2025

Issue Date: April 24, 2025

Approved By**Arno Hsieh****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED 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
TERF2503000970E2	00	Original	April 24, 2025	Karen Huang	

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

EUT Description	Doorbell
Brand Name:	blink
Model No. / ISED HVIN:	BDM00300U
Hardware Version:	DVT2
Firmware Version:	N/A
EUT Series No.:	GLC3QW01503400U1
Power Supply:	4.5Vdc from Battery
Test Software (Name/Version)	Tera Trem V4.106

1.2 RF Specification

WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	22.18	18.89	DSSS
802.11g	2412~2462	11	25.66	18.85	OFDM
802.11n_HT20	2412~2462	11	25.55	18.63	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n			
Data Rate:		802.11b: 1/2/5.5/11 Mbps			
		802.11g: 6/9/12/18/24/36/48/54 Mbps			
		802.11n_HT20: up to 72.2Mbps			

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WLAN 2.4GHz for IC

Mode	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)	Modulation Technology
			Peak	Avg.		
802.11b	2412~2462	11	22.18	18.89	22.09	DSSS
802.11g	2412~2462	11	25.66	18.85	22.05	OFDM
802.11n_HT20	2412~2462	11	25.55	18.63	21.83	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b				
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g,11n				
Data Rate:		802.11b: 1/2/5.5/11 Mbps				
		802.11g: 6/9/12/18/24/36/48/54 Mbps				
		802.11n_HT20: up to 72.2Mbps				

1.3 Antenna Designation

Antenna Type	Freq.	Peak Antenna Gain (dBi)
PIFA	2.4GHz	3.2

Note:

1. 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, Amendment 2 (February 2021)

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

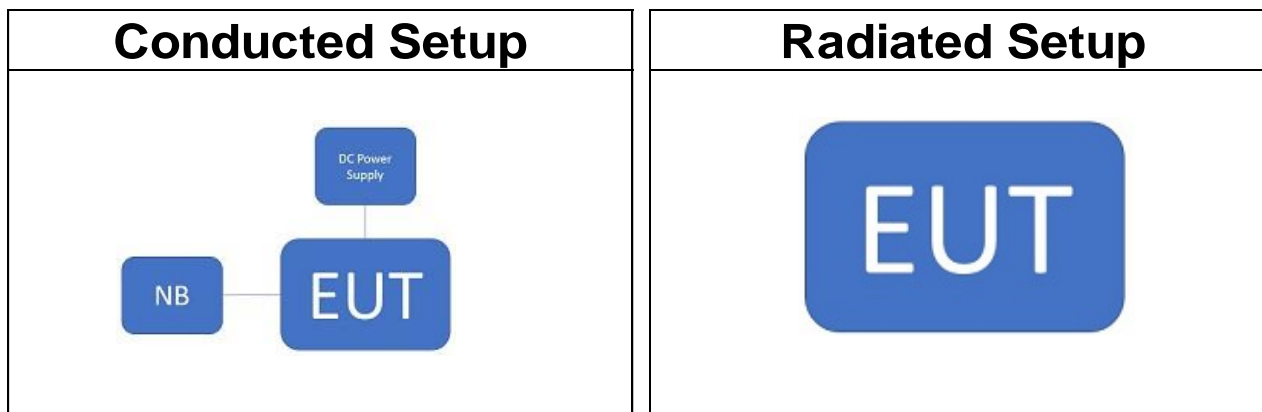
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	N/A	N/A	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	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	N/A
§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
§15.209 §15.247(d)	RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.209 §15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	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.

Mode		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
V	802.11 b	V	Ch0		Ch1		Ch2		Ch3		1TX	V	1TX
V	802.11 g	V	Ch0		Ch1		Ch2		Ch3		1TX	V	1TX
V	802.11 n	V	Ch0		Ch1		Ch2		Ch3		1TX	V	1TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		1TX
	802.11 be		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 TEST					
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	1,6,11	OFDM	6	Ch0
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	Ch0

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	2412 ~ 2462	1 to 11	6	OFDM	6	Ch0

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	2412 ~ 2462	1 to 11	1,2,6,9,10,11	DSSS	1	Ch0
802.11g	2412 ~ 2462	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	6	Ch0
802.11n20	2412 ~ 2462	1 to 11	1,2,3,4,5,6,7,8,9,10,11	OFDM	MCS0	Ch0

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	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

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

N/A

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
DC Power Supply	Agilent	E3640A	MY53170008	08/29/2024	08/28/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/17/2024	12/16/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+15 0707+MY969/4+16+1 90825+150702	11/14/2024	11/13/2025
High Pass Filter	Titan Microwave	T04H30001800070S0 1	RF188	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

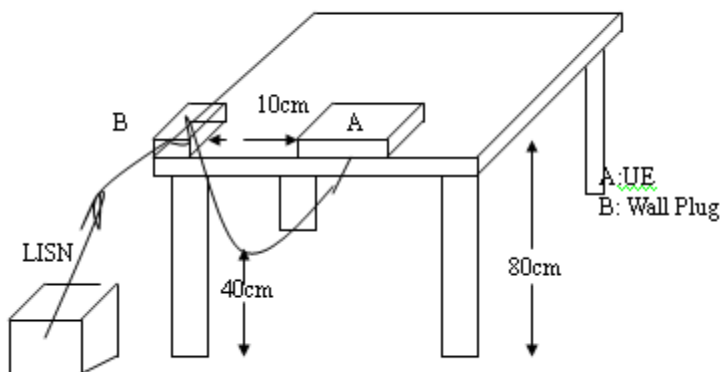
Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

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

N/A; Powered from AA battery.

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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

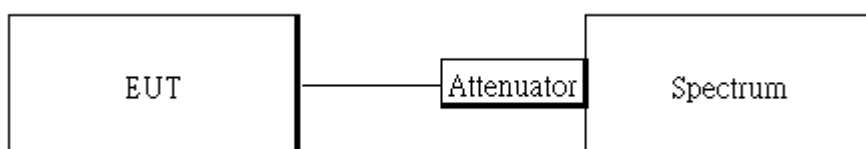
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

Note:

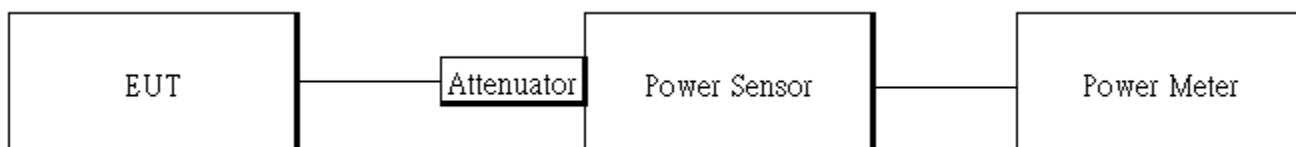
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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:

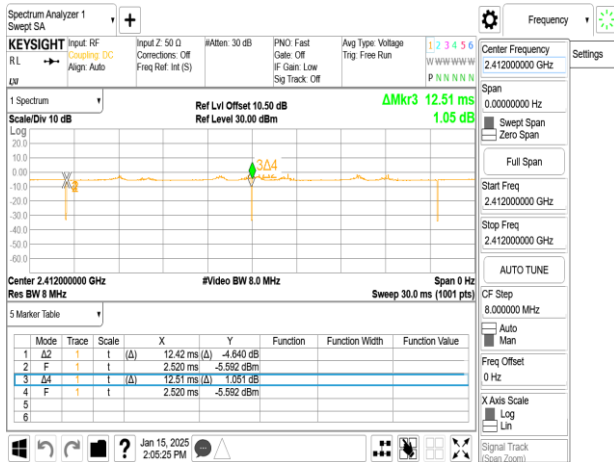
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.28	0.03	0.08	0.01
802.11g	95.37	0.21	0.49	1.00
802.11n_20	95.05	0.22	0.52	1.00

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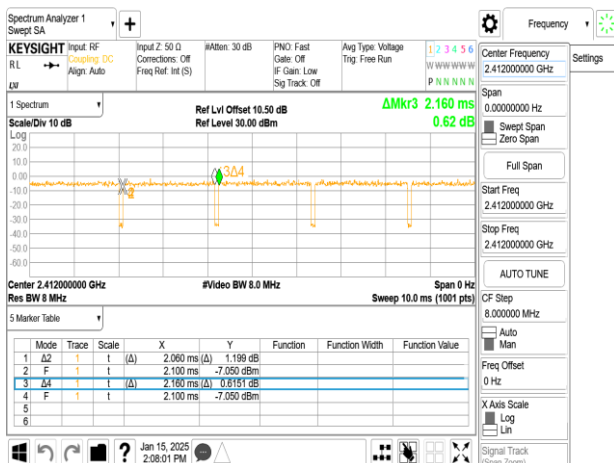
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8.4.2 Duty Cycle test plots

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 Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	70	113.24	20.54	30.00	PASS
2	2417	1	76	160.32	22.05	30.00	PASS
3	2422	1	76	158.85	22.01	30.00	PASS
4	2427	1	76	161.06	22.07	30.00	PASS
5	2432	1	76	161.81	22.09	30.00	PASS
6	2437	1	76	165.20	22.18	30.00	PASS
7	2442	1	76	162.55	22.11	30.00	PASS
8	2447	1	76	161.44	22.08	30.00	PASS
9	2452	1	76	164.06	22.15	30.00	PASS
10	2457	1	71	118.03	20.72	30.00	PASS
11	2462	1	68	104.71	20.20	30.00	PASS
802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	70	52.14	17.17	30.00	PASS
2	2417	1	76	73.98	18.69	30.00	PASS
3	2422	1	76	73.64	18.67	30.00	PASS
4	2427	1	76	74.67	18.73	30.00	PASS
5	2432	1	76	75.01	18.75	30.00	PASS
6	2437	1	76	77.47	18.89	30.00	PASS
7	2442	1	76	75.19	18.76	30.00	PASS
8	2447	1	76	74.84	18.74	30.00	PASS
9	2452	1	76	75.71	18.79	30.00	PASS
10	2457	1	71	54.22	17.34	30.00	PASS
11	2462	1	68	48.43	16.85	30.00	PASS

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802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	50	204.64	23.11	30.00	PASS
2	2417	6	52	215.77	23.34	30.00	PASS
3	2422	6	58	261.22	24.17	30.00	PASS
4	2427	6	66	325.09	25.12	30.00	PASS
5	2432	6	74	353.18	25.48	30.00	PASS
6	2437	6	78	368.13	25.66	30.00	PASS
7	2442	6	73	348.34	25.42	30.00	PASS
8	2447	6	66	321.37	25.07	30.00	PASS
9	2452	6	50	201.84	23.05	30.00	PASS
10	2457	6	48	188.80	22.76	30.00	PASS
11	2462	6	48	190.99	22.81	30.00	PASS
802.11g Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	50	18.95	12.78	30.00	PASS
2	2417	6	52	20.63	13.15	30.00	PASS
3	2422	6	58	28.16	14.50	30.00	PASS
4	2427	6	66	40.33	16.06	30.00	PASS
5	2432	6	74	59.24	17.73	30.00	PASS
6	2437	6	78	76.66	18.85	30.00	PASS
7	2442	6	73	57.36	17.59	30.00	PASS
8	2447	6	66	39.96	16.02	30.00	PASS
9	2452	6	50	18.82	12.75	30.00	PASS
10	2457	6	48	17.20	12.36	30.00	PASS
11	2462	6	48	17.40	12.41	30.00	PASS

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802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	49	180.72	22.57	30.00	PASS
2	2417	MCS0	53	212.32	23.27	30.00	PASS
3	2422	MCS0	60	265.46	24.24	30.00	PASS
4	2427	MCS0	70	334.20	25.24	30.00	PASS
5	2432	MCS0	78	358.92	25.55	30.00	PASS
6	2437	MCS0	73	358.10	25.54	30.00	PASS
7	2442	MCS0	64	305.49	24.85	30.00	PASS
8	2447	MCS0	55	229.61	23.61	30.00	PASS
9	2452	MCS0	50	187.07	22.72	30.00	PASS
10	2457	MCS0	50	188.36	22.75	30.00	PASS
11	2462	MCS0	50	189.67	22.78	30.00	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	49	16.91	12.28	30.00	PASS
2	2417	MCS0	53	21.09	13.24	30.00	PASS
3	2422	MCS0	60	29.11	14.64	30.00	PASS
4	2427	MCS0	70	47.54	16.77	30.00	PASS
5	2432	MCS0	78	72.95	18.63	30.00	PASS
6	2437	MCS0	73	53.46	17.28	30.00	PASS
7	2442	MCS0	64	36.06	15.57	30.00	PASS
8	2447	MCS0	55	22.54	13.53	30.00	PASS
9	2452	MCS0	50	18.24	12.61	30.00	PASS
10	2457	MCS0	50	18.37	12.64	30.00	PASS
11	2462	MCS0	50	18.54	12.68	30.00	PASS

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8.4.4 EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.17	3.20	20.37	36	PASS
2	2417	1	18.69	3.20	21.89	36	PASS
3	2422	1	18.67	3.20	21.87	36	PASS
4	2427	1	18.73	3.20	21.93	36	PASS
5	2432	1	18.75	3.20	21.95	36	PASS
6	2437	1	18.89	3.20	22.09	36	PASS
7	2442	1	18.76	3.20	21.96	36	PASS
8	2447	1	18.74	3.20	21.94	36	PASS
9	2452	1	18.79	3.20	21.99	36	PASS
10	2457	1	17.34	3.20	20.54	36	PASS
11	2462	1	16.85	3.20	20.05	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	12.78	3.20	15.98	36	PASS
2	2417	6	13.15	3.20	16.35	36	PASS
3	2422	6	14.50	3.20	17.70	36	PASS
4	2427	6	16.06	3.20	19.26	36	PASS
5	2432	6	17.73	3.20	20.93	36	PASS
6	2437	6	18.85	3.20	22.05	36	PASS
7	2442	6	17.59	3.20	20.79	36	PASS
8	2447	6	16.02	3.20	19.22	36	PASS
9	2452	6	12.75	3.20	15.95	36	PASS
10	2457	6	12.36	3.20	15.56	36	PASS
11	2462	6	12.41	3.20	15.61	36	PASS

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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	12.28	3.20	15.48	36	PASS
2	2417	MCS0	13.24	3.20	16.44	36	PASS
3	2422	MCS0	14.64	3.20	17.84	36	PASS
4	2427	MCS0	16.77	3.20	19.97	36	PASS
5	2432	MCS0	18.63	3.20	21.83	36	PASS
6	2437	MCS0	17.28	3.20	20.48	36	PASS
7	2442	MCS0	15.57	3.20	18.77	36	PASS
8	2447	MCS0	13.53	3.20	16.73	36	PASS
9	2452	MCS0	12.61	3.20	15.81	36	PASS
10	2457	MCS0	12.64	3.20	15.84	36	PASS
11	2462	MCS0	12.68	3.20	15.88	36	PASS

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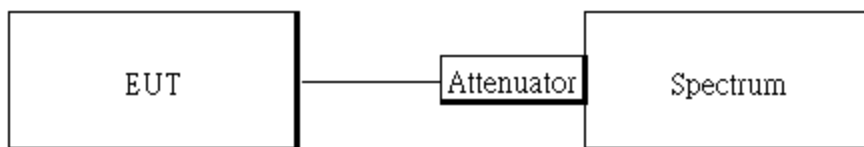
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9 EMISSION BANDWIDTH MEASUREMENT

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	7041	≥ 500	PASS
2437	6567	≥ 500	PASS
2462	6594	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150	≥ 500	PASS
2437	15140	≥ 500	PASS
2462	15150	≥ 500	PASS

802.11n_HT_20M Ch0

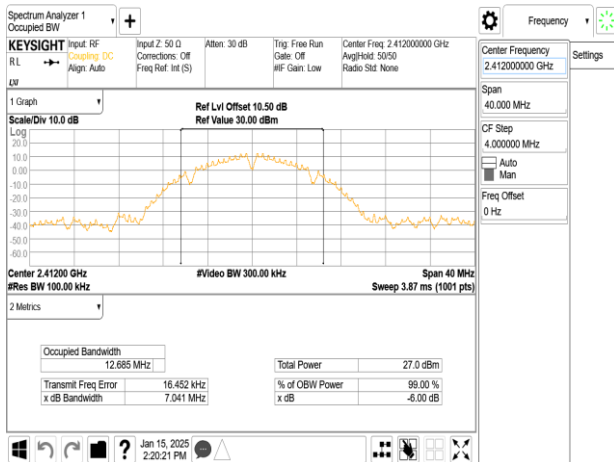
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15150	≥ 500	PASS
2437	15140	≥ 500	PASS
2462	15160	≥ 500	PASS

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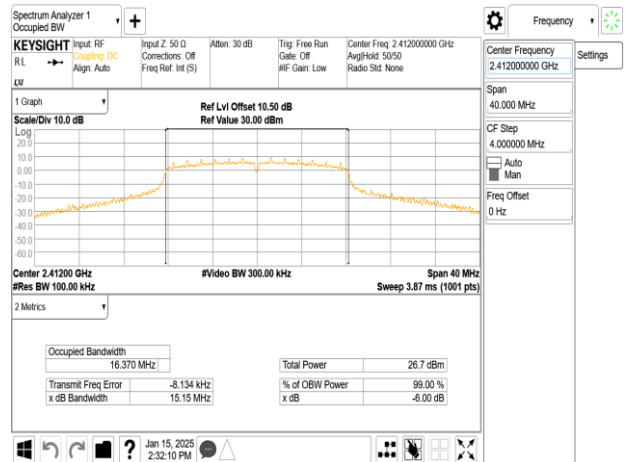
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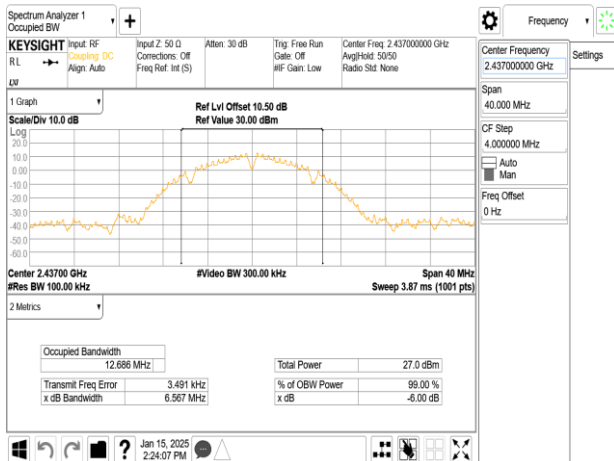
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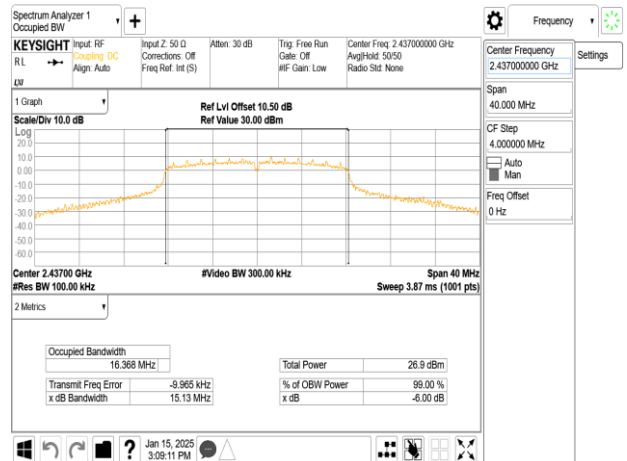
802.11g_20MHz_Chain0_2412MHz



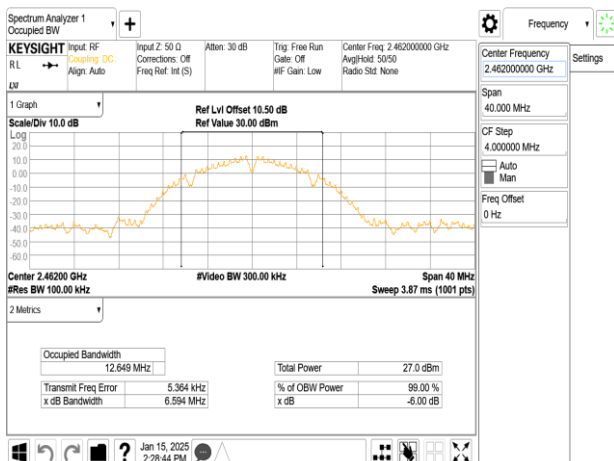
802.11b_20MHz_Chain0_2437MHz



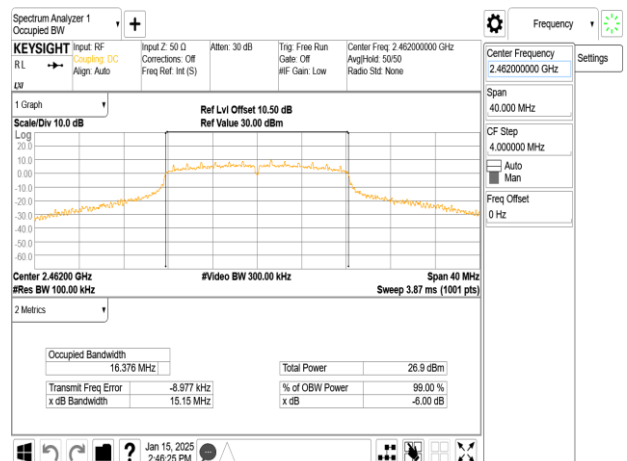
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

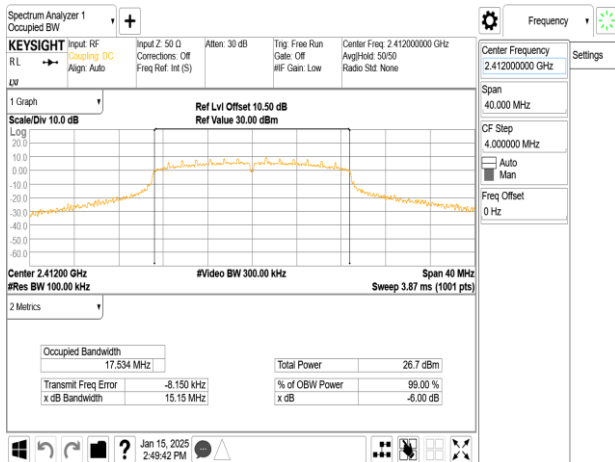


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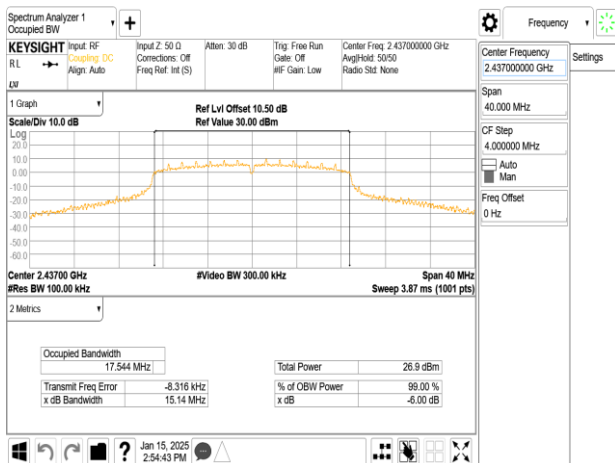
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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9.4.2 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	12.682
2437	12.71
2462	12.687

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.636
2437	16.648
2462	16.666

802.11n_HT20M Ch0

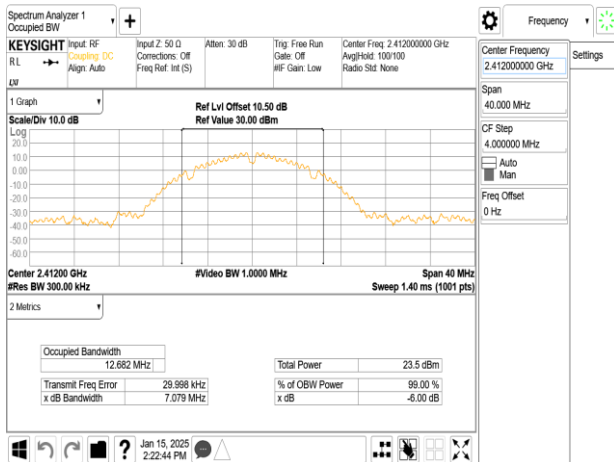
Freq. (MHz)	99% BW (MHz)
2412	17.689
2437	17.699
2462	17.703

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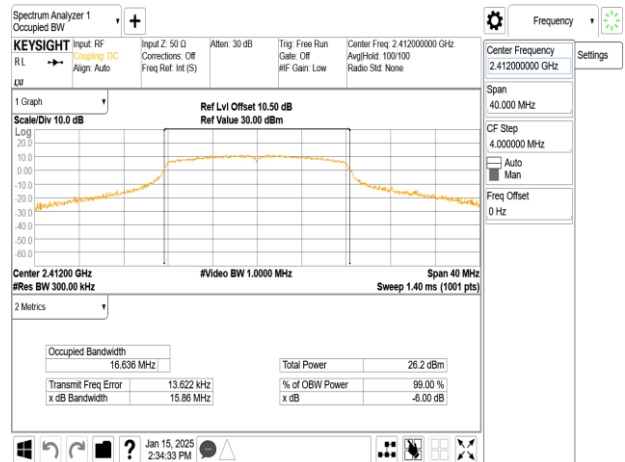
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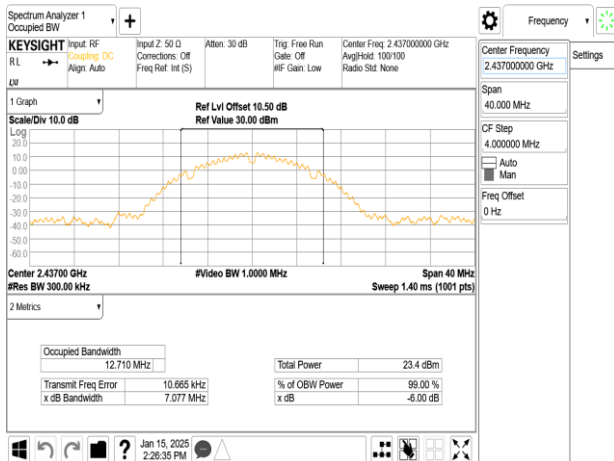
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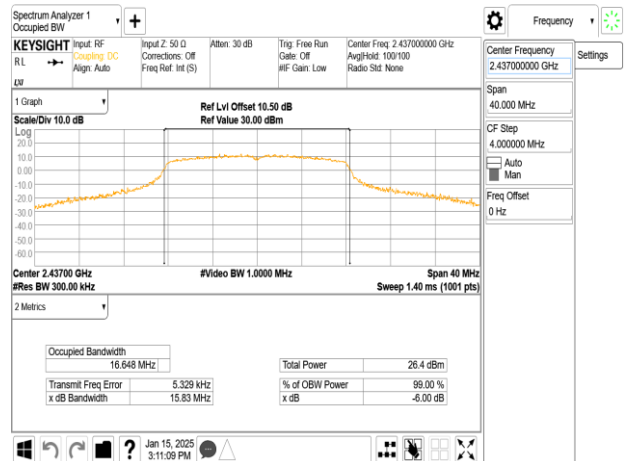
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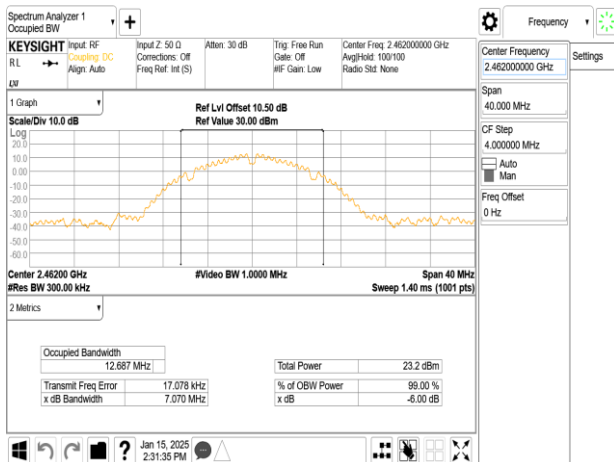
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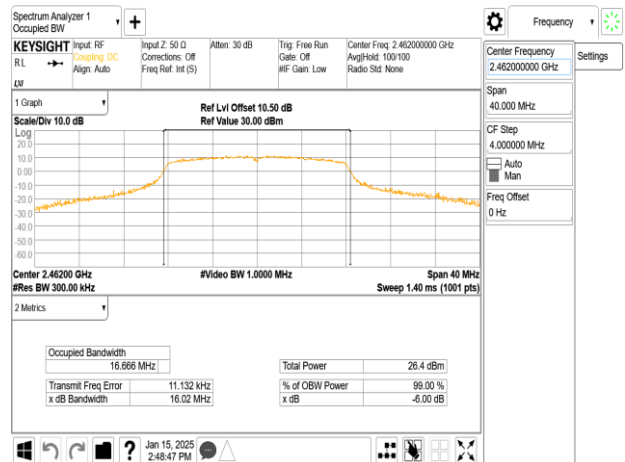
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

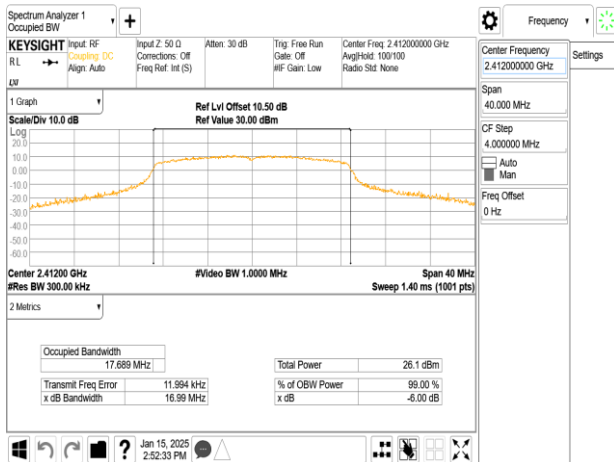


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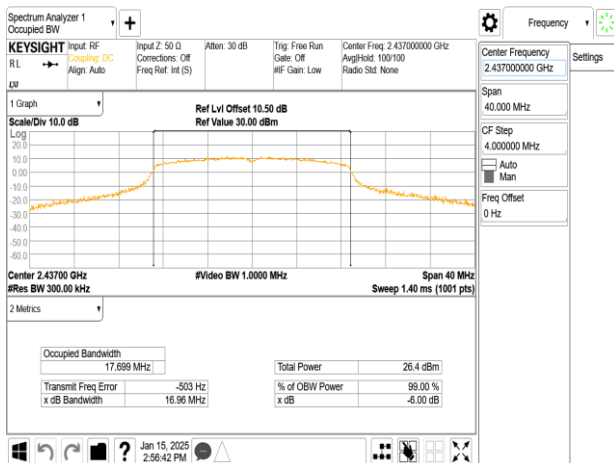
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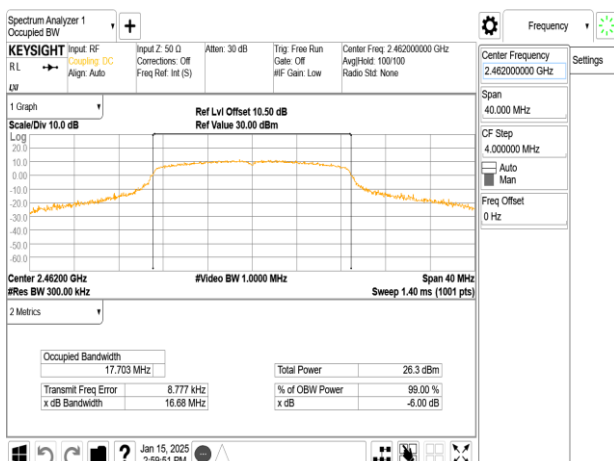
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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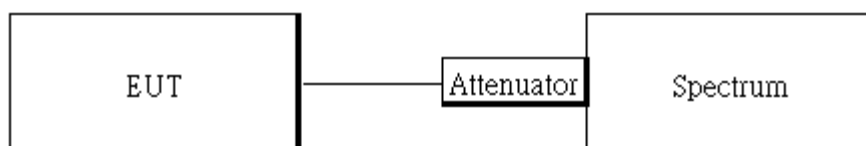
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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 -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.

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

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.

10.4 Measurement Result

802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.92	-9.08
2437	12.57	-7.43
2462	9.87	-10.13

802.11g Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.47	-17.53
2437	9.34	-10.66
2462	1.88	-18.12

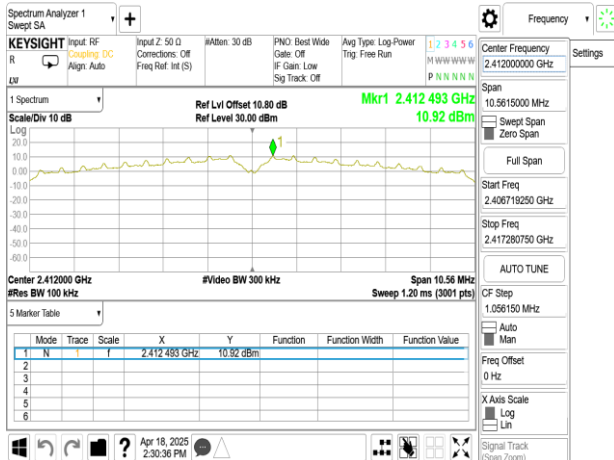
802.11n_HT_20M Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.55	-17.45
2437	7.73	-12.27
2462	2.92	-17.08

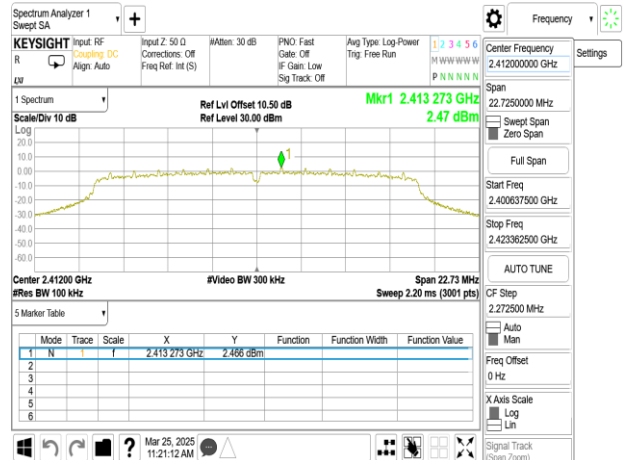
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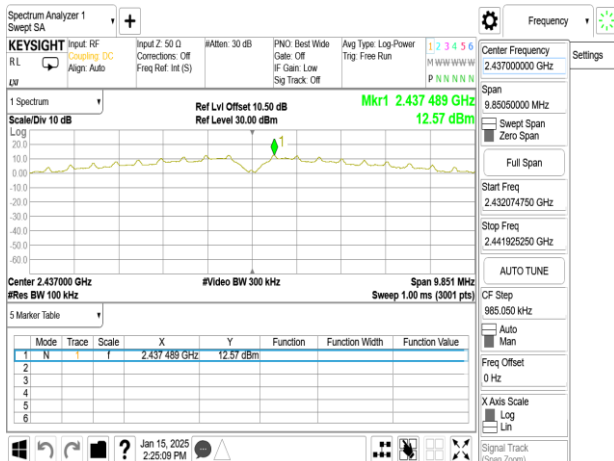
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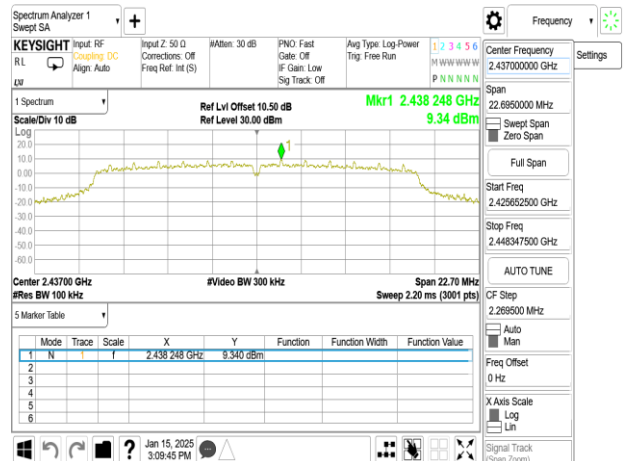
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2437MHz



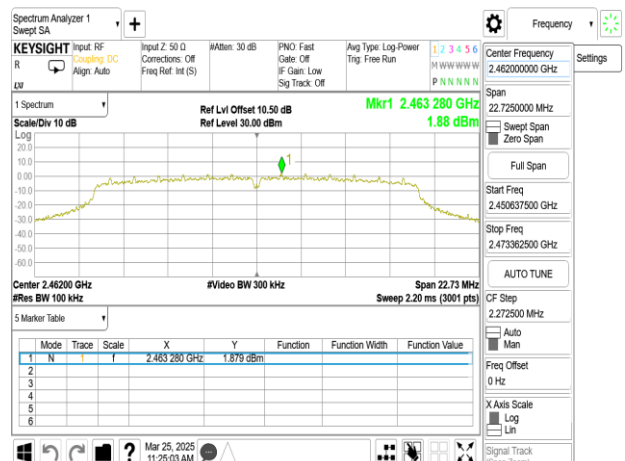
802.11g_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz



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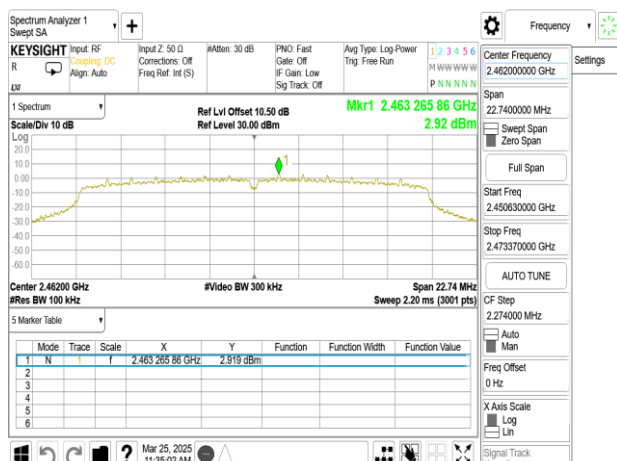
802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2462MHz



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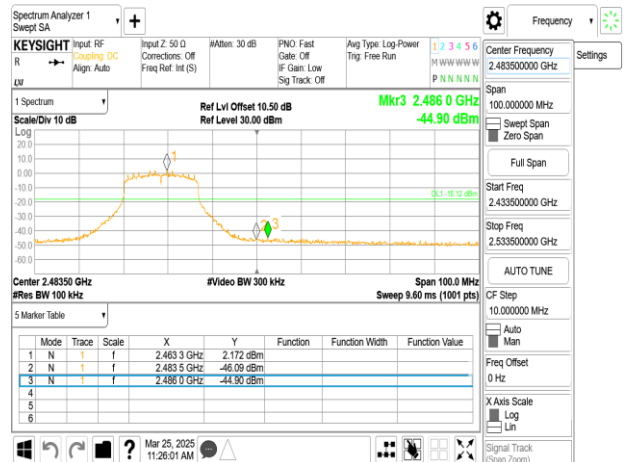
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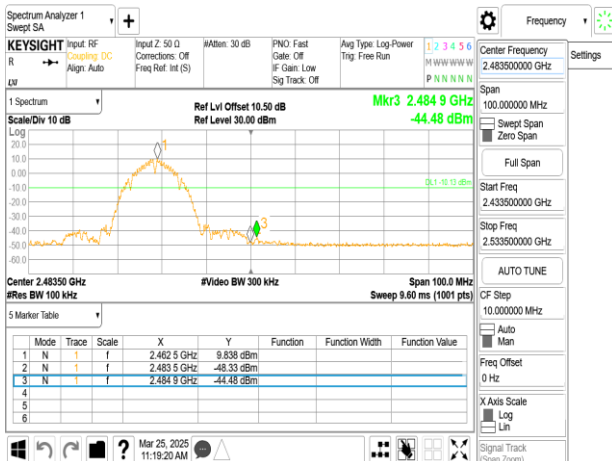
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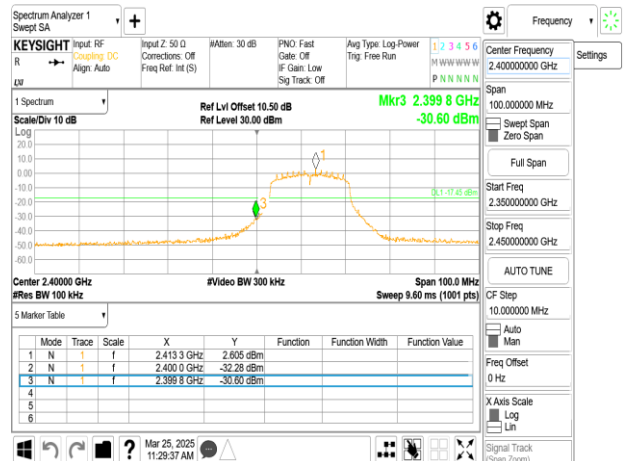
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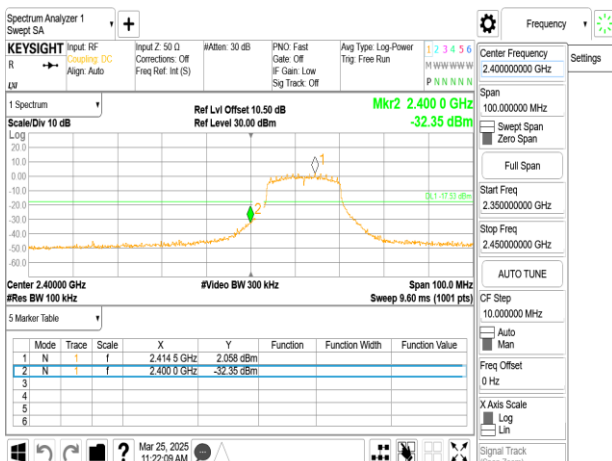
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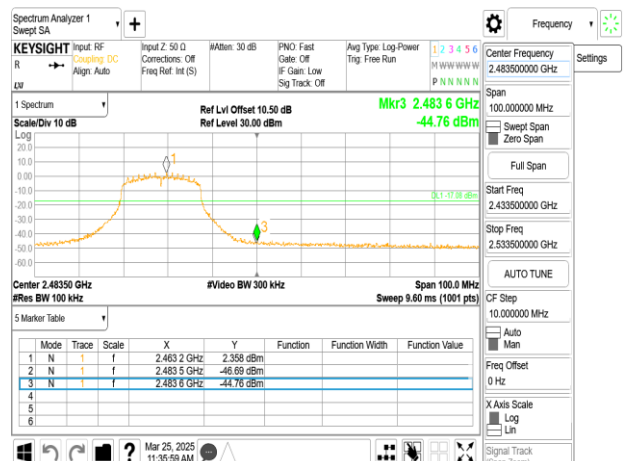
802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2462MHz

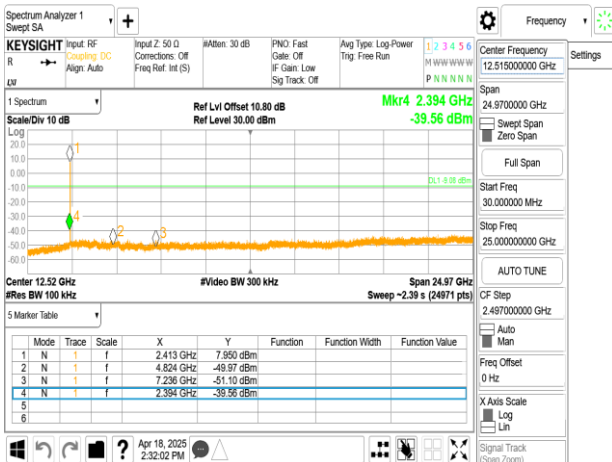


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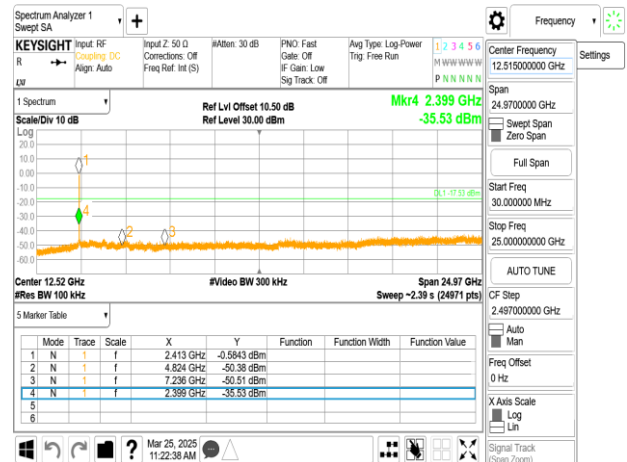
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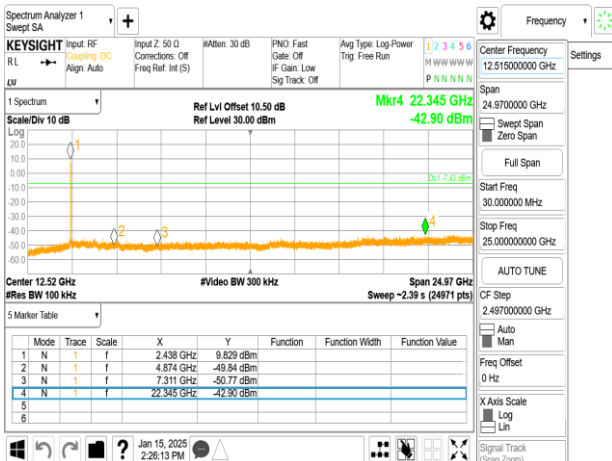
802.11b_20MHz_Chain0_2412MHz



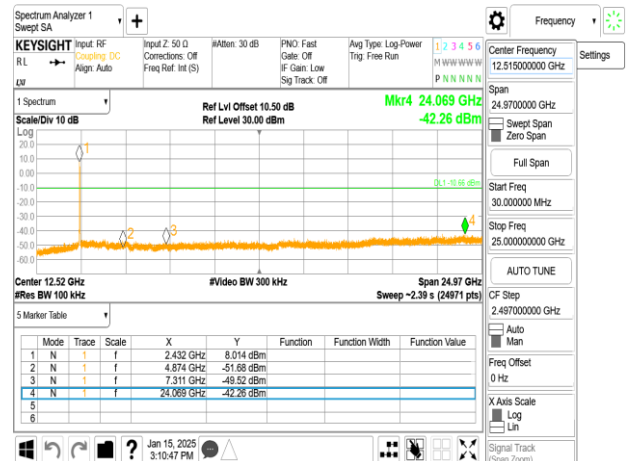
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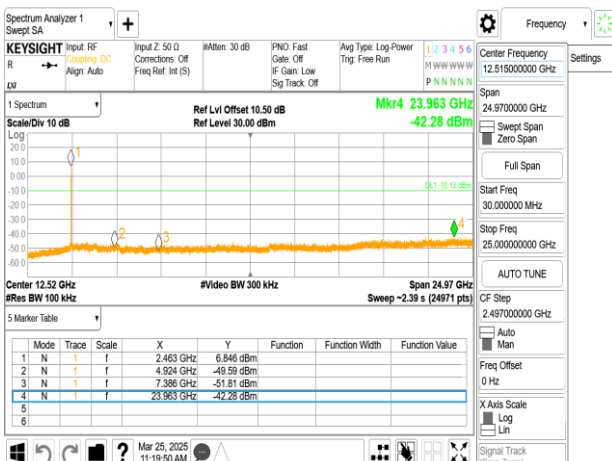
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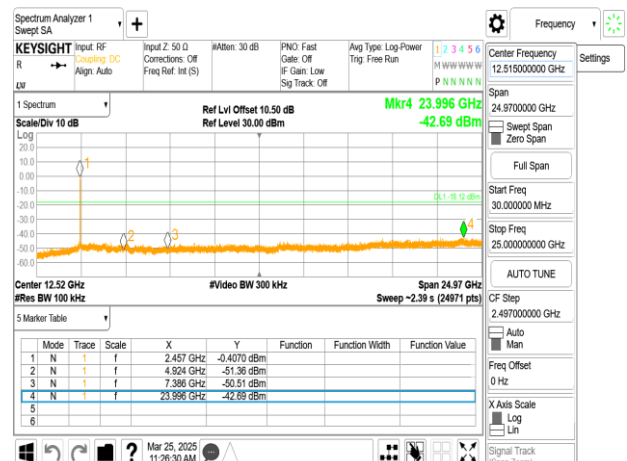
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802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2462MHz

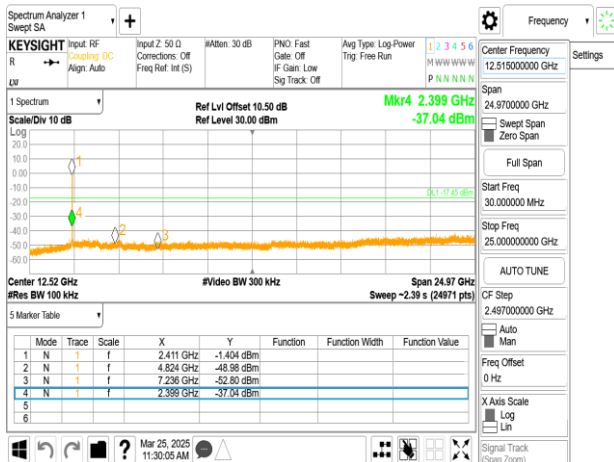


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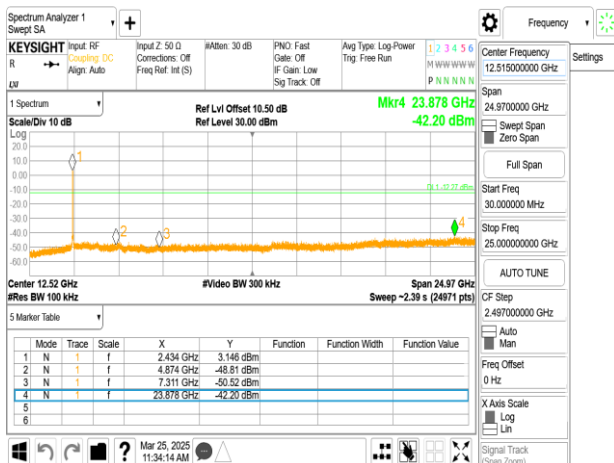
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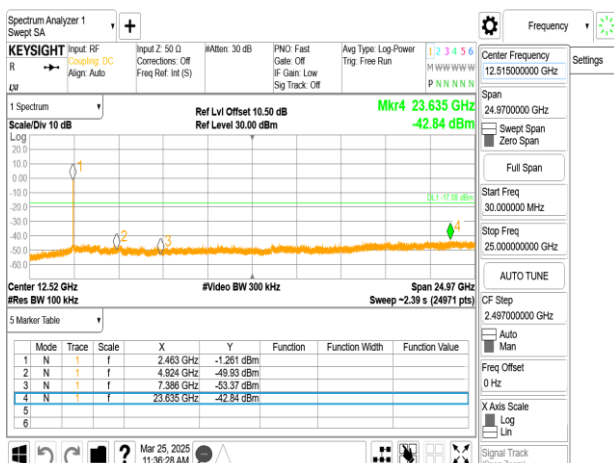
802.11n_20MHz_Chain0_2412MHz



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:

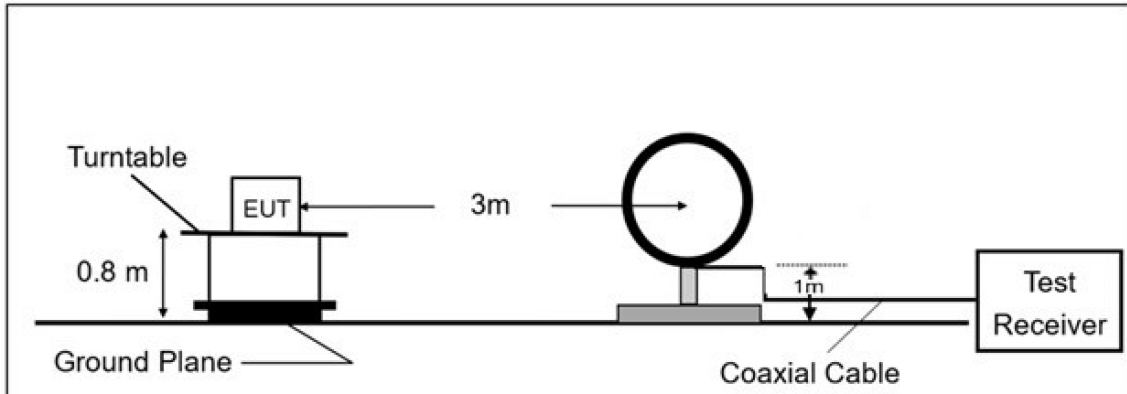
1. The lower limit shall apply at the transition frequencies.

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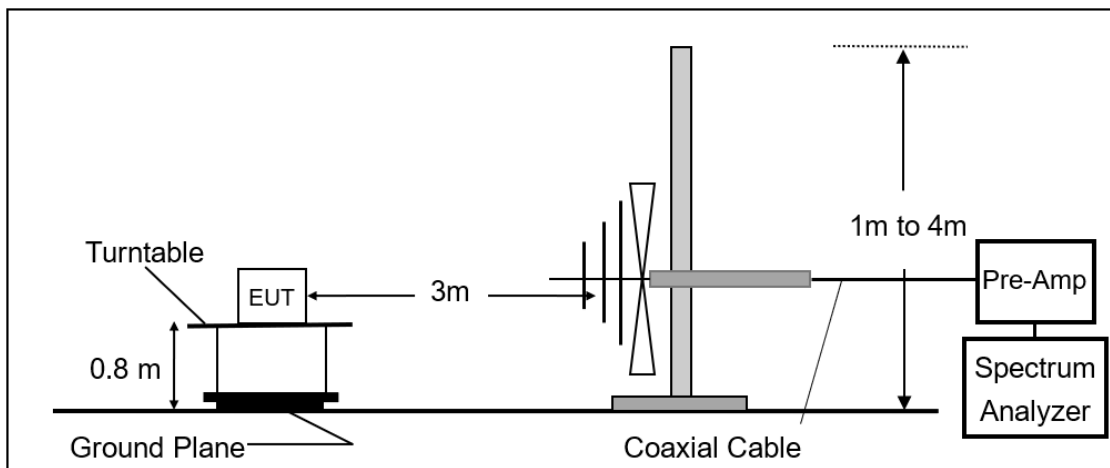
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11.2 Test Setup

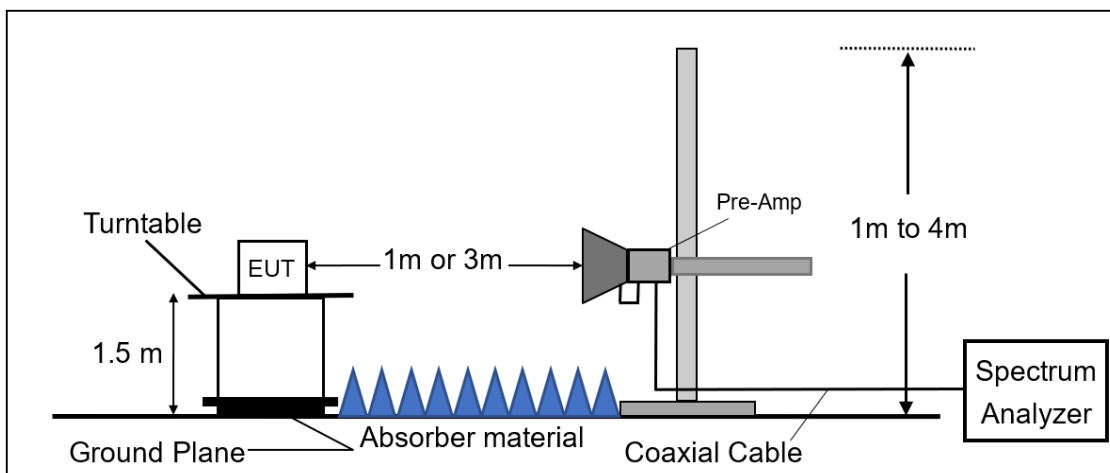
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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(dBuV/m) = SPA. Reading level(dBuV) + Factor(dB)

Factor(dB) = Antenna Factor(dB/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

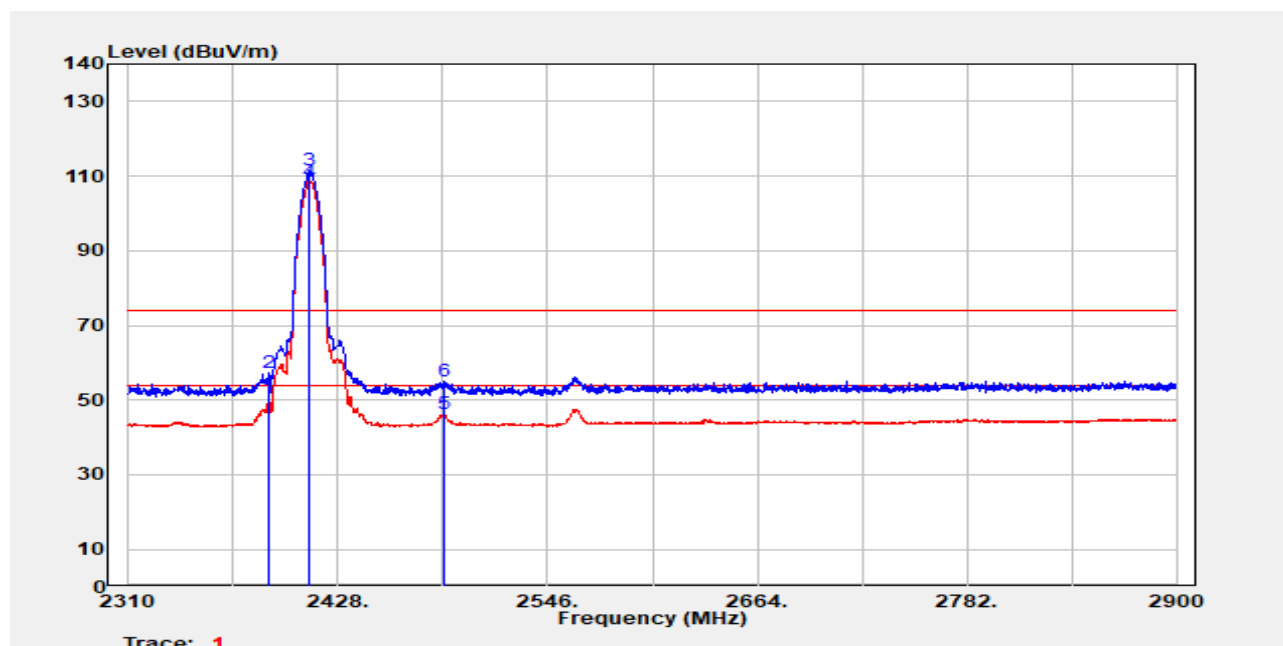
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11.6.1 Radiated Band Edge Measurement Result

Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-10
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2389.09	Average	47.59	2.95	50.54	54.00	-3.46
2389.28	Peak	54.50	2.95	57.45	74.00	-16.55
2412.00	Peak	108.48	2.91	111.39	-	-
2412.00	Average	105.65	2.91	108.56	-	-
2487.85	Average	43.14	2.99	46.13	54.00	-7.87
2488.04	Peak	51.84	2.99	54.83	74.00	-19.17

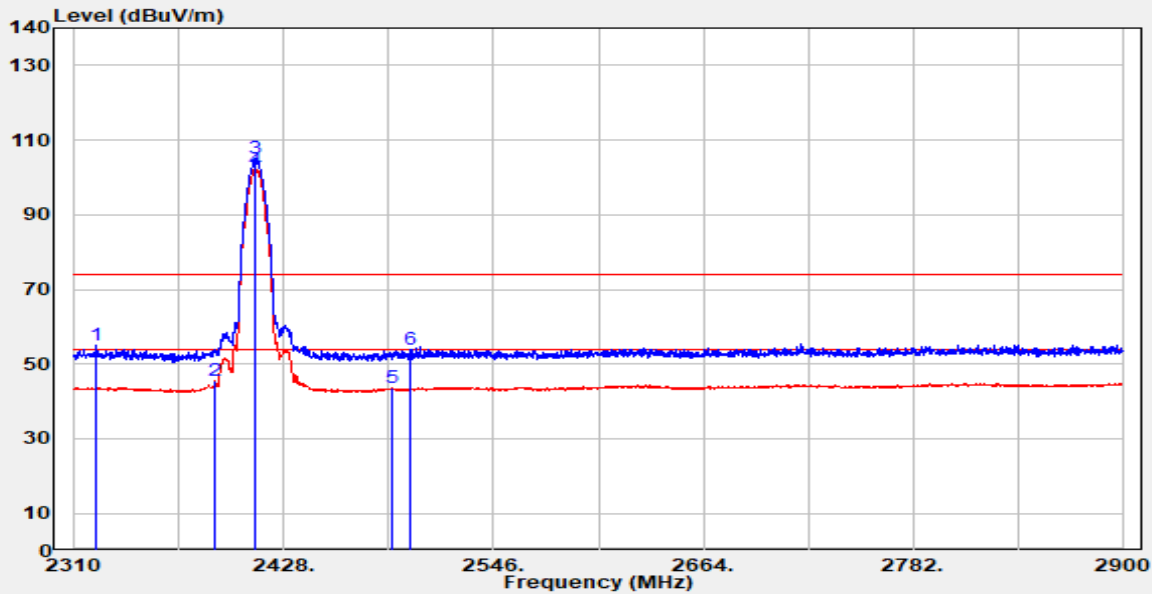
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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-27
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



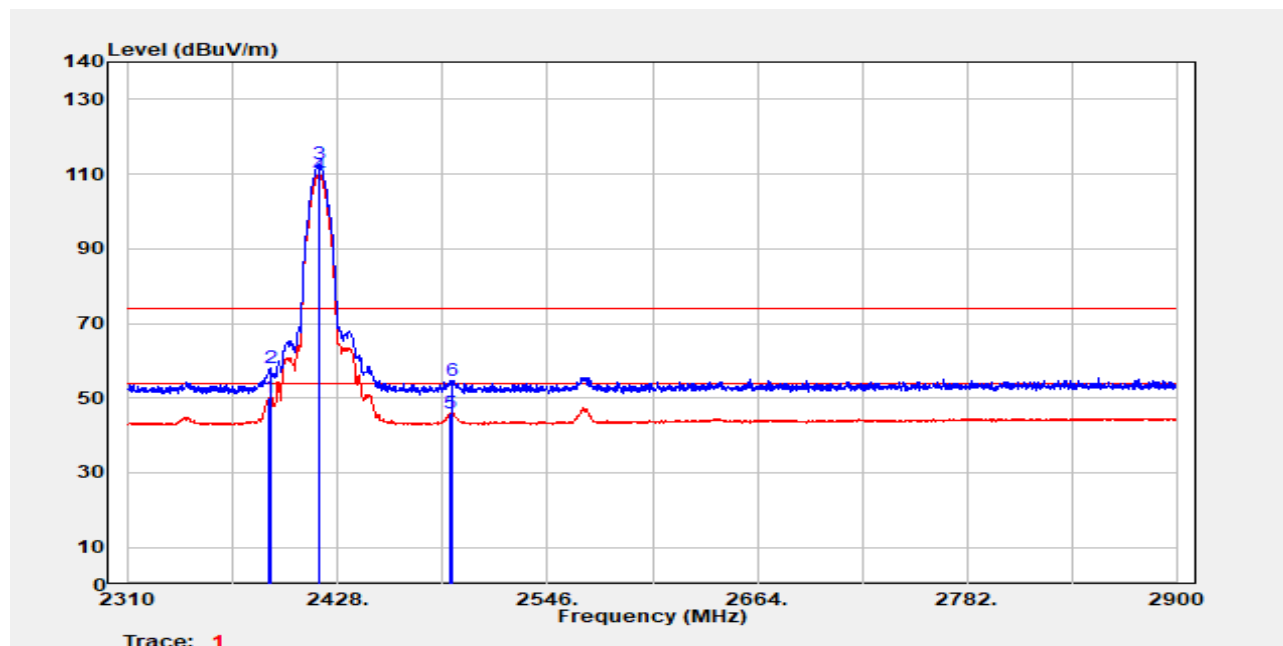
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2322.20	Peak	51.84	3.09	54.93	74.00	-19.07
2389.09	Average	42.46	2.95	45.41	54.00	-8.59
2412.00	Peak	102.20	2.91	105.11	-	-
2412.00	Average	99.33	2.91	102.24	-	-
2489.03	Average	40.47	2.99	43.46	54.00	-10.54
2499.06	Peak	50.87	3.02	53.89	74.00	-20.11

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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-11
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.89	Average	47.10	2.95	50.05	54.00	-3.95
2389.87	Peak	55.09	2.96	58.05	74.00	-15.95
2417.00	Peak	109.71	2.92	112.63	-	-
2417.00	Average	106.86	2.92	109.78	-	-
2490.80	Average	42.92	3.00	45.92	54.00	-8.08
2491.98	Peak	51.76	3.00	54.76	74.00	-19.24

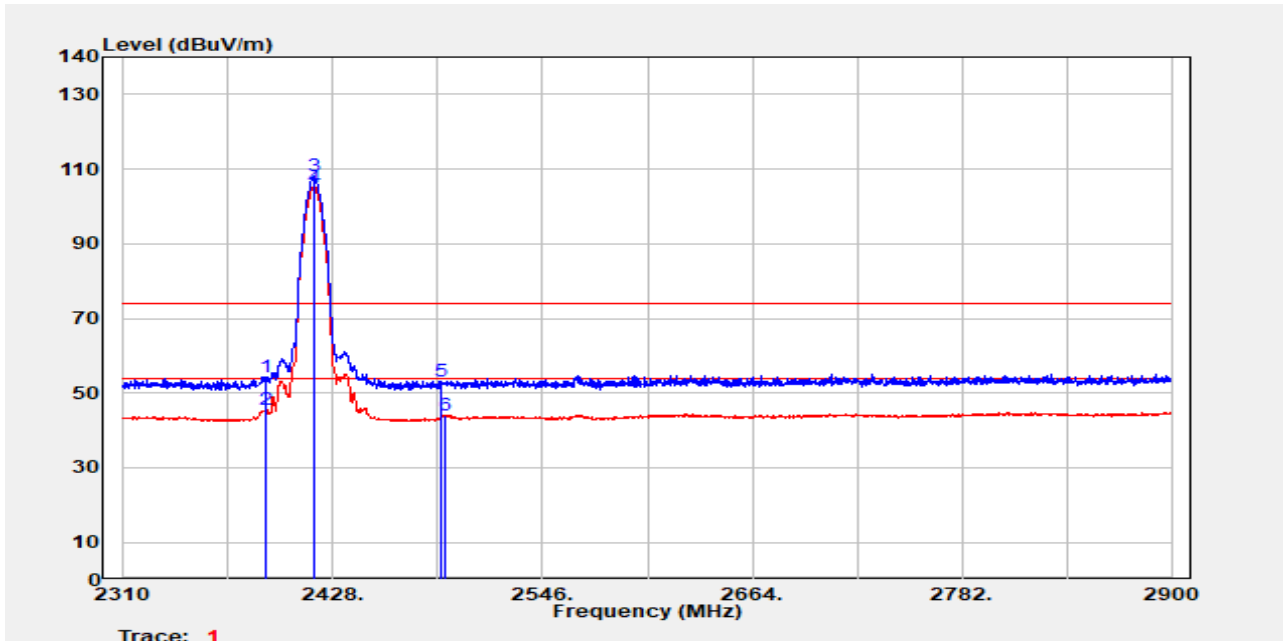
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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-27
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



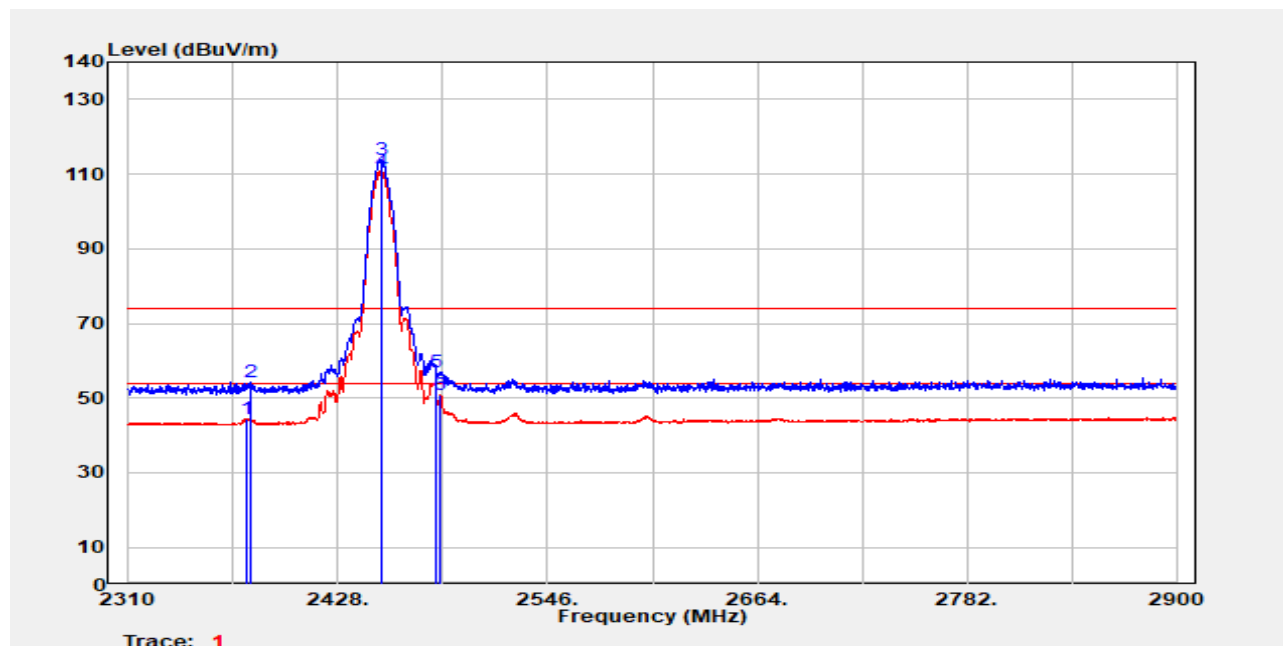
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.87	Peak	51.32	2.96	54.28	74.00	-19.72
2389.87	Average	42.72	2.96	45.68	54.00	-8.32
2417.00	Peak	105.10	2.92	108.02	-	-
2417.00	Average	102.21	2.92	105.13	-	-
2488.24	Peak	50.27	2.99	53.26	74.00	-20.74
2490.80	Average	41.11	3.00	44.11	54.00	-9.89

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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-11
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2376.30	Average	41.68	2.83	44.51	54.00	-9.49
2379.05	Peak	51.51	2.84	54.35	74.00	-19.65
2452.00	Peak	111.01	2.88	113.89	-	-
2452.00	Average	107.79	2.88	110.67	-	-
2483.50	Peak	54.08	2.98	57.06	74.00	-16.94
2485.68	Average	47.96	2.99	50.95	54.00	-3.05

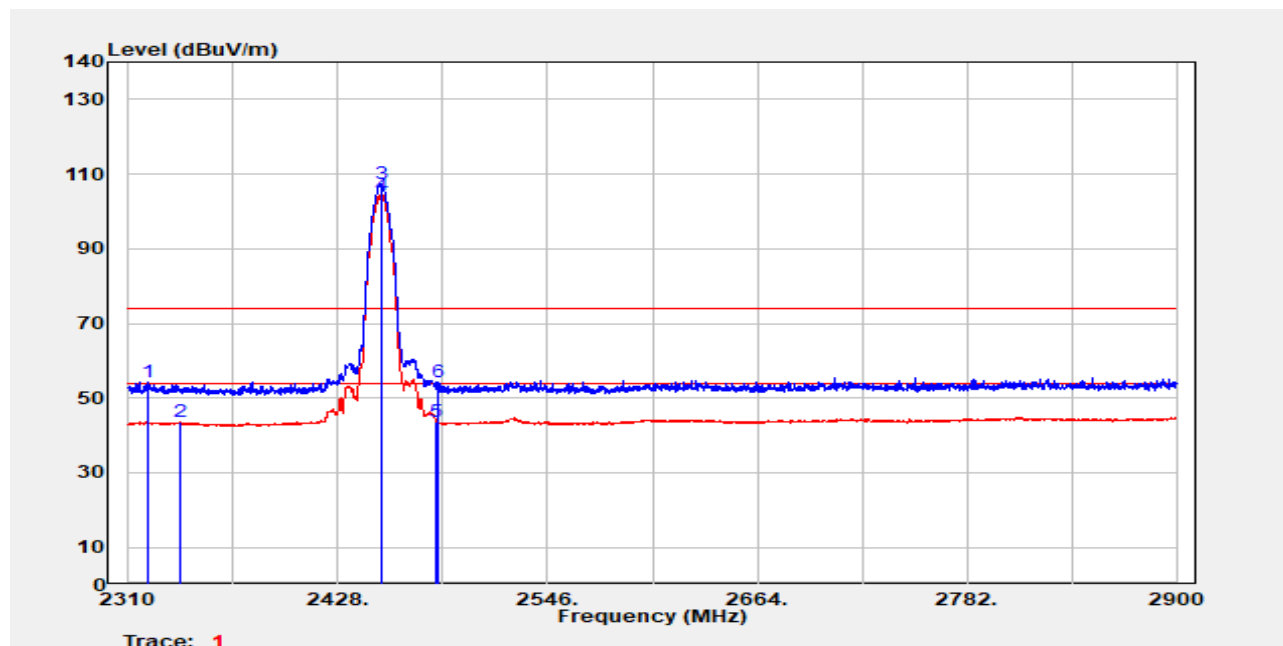
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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-27
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2320.62	Peak	51.12	3.11	54.23	74.00	-19.77
2338.72	Average	40.54	2.96	43.50	54.00	-10.50
2452.00	Peak	104.43	2.88	107.31	-	-
2452.00	Average	101.51	2.88	104.39	-	-
2483.50	Average	40.73	2.98	43.71	54.00	-10.29
2483.72	Peak	51.25	2.98	54.23	74.00	-19.77

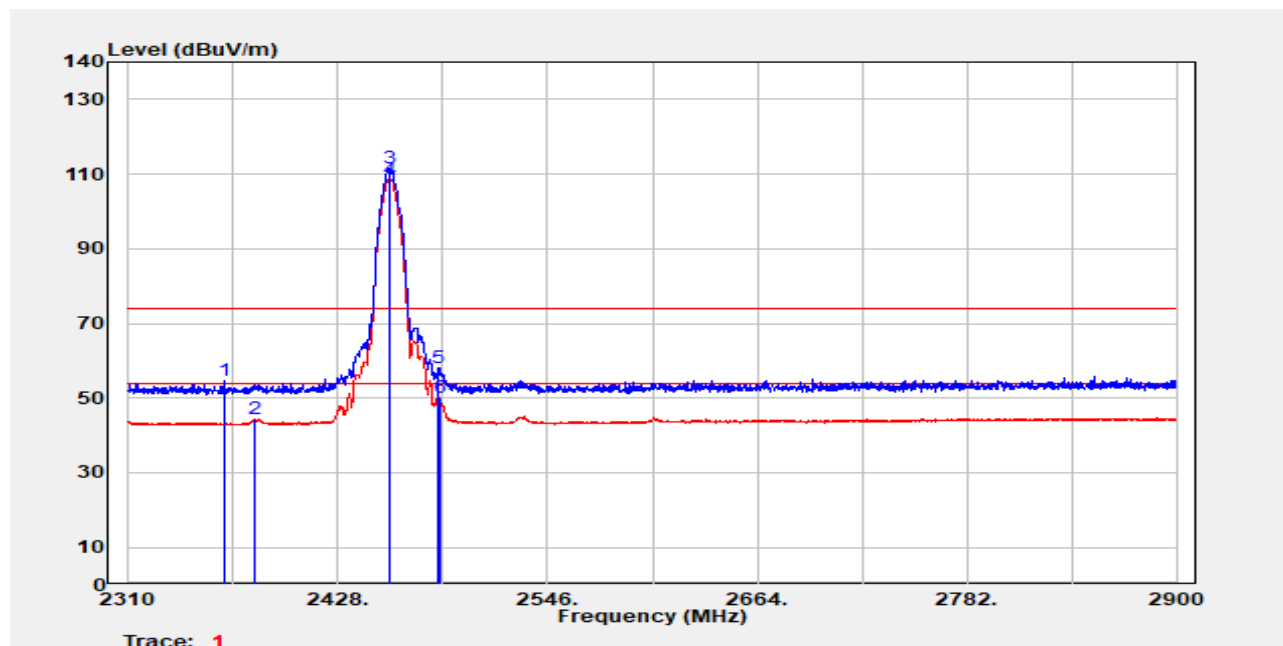
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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-11
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2363.71	Peak	51.71	2.86	54.57	74.00	-19.43
2381.41	Average	41.60	2.86	44.46	54.00	-9.54
2457.00	Peak	108.86	2.85	111.71	-	-
2457.00	Average	105.73	2.85	108.58	-	-
2484.70	Peak	55.01	2.99	58.00	74.00	-16.00
2485.09	Average	47.23	2.99	50.22	54.00	-3.78

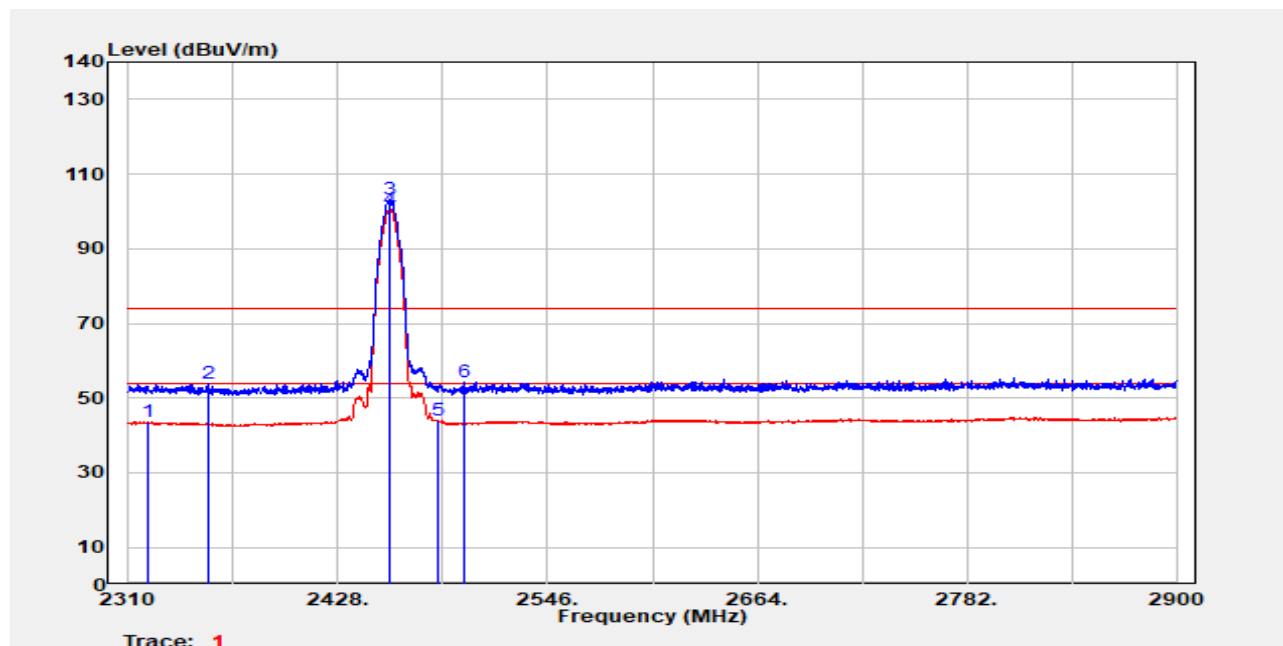
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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-27
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



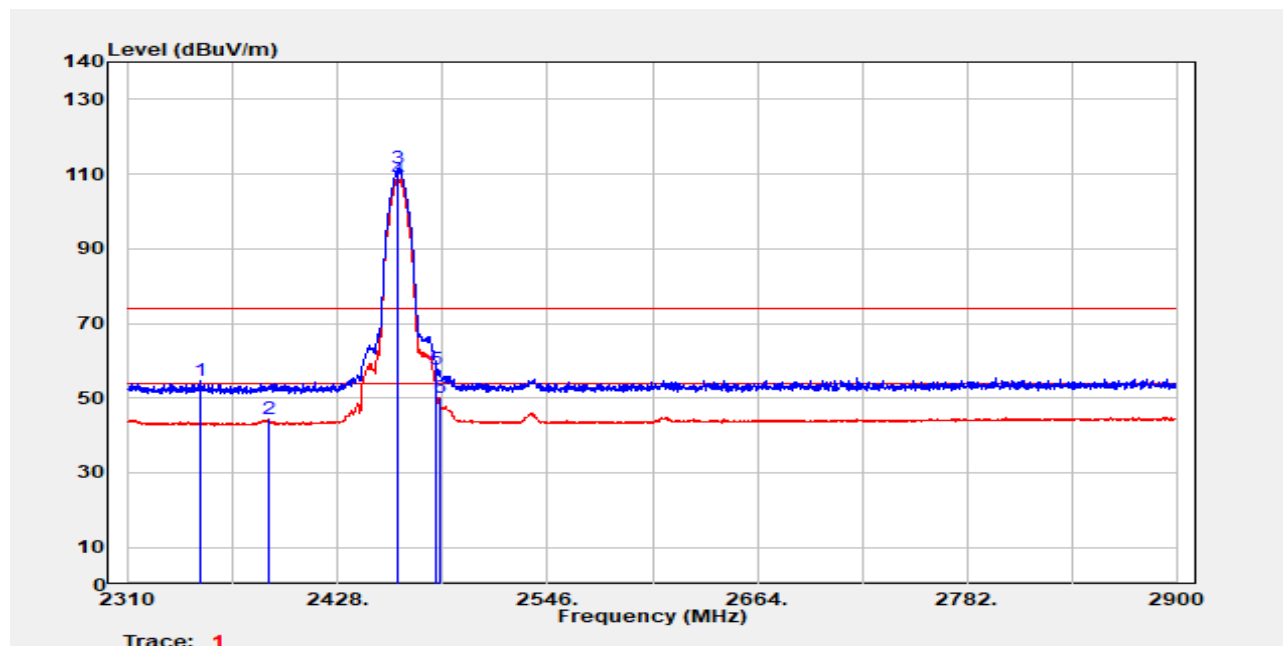
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2320.43	Average	40.50	3.11	43.61	54.00	-10.39
2354.46	Peak	50.88	2.95	53.83	74.00	-20.17
2457.00	Peak	100.37	2.85	103.22	-	-
2457.00	Average	97.53	2.85	100.38	-	-
2483.72	Average	41.11	2.98	44.09	54.00	-9.91
2498.47	Peak	51.14	3.02	54.16	74.00	-19.84

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Report Number :TERF2503000970E2
Operation Mode :802.11b
Test Frequency :2462 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-03-08
Temp./Humi. :18.6°C/56%
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2350.72	Peak	51.57	2.98	54.55	74.00	-19.45
2388.50	Average	41.29	2.94	44.23	54.00	-9.77
2462.00	Peak	108.73	2.83	111.56	-	-
2462.00	Average	105.83	2.83	108.66	-	-
2483.50	Peak	54.70	2.98	57.68	74.00	-16.32
2484.90	Average	47.07	2.99	50.06	54.00	-3.94

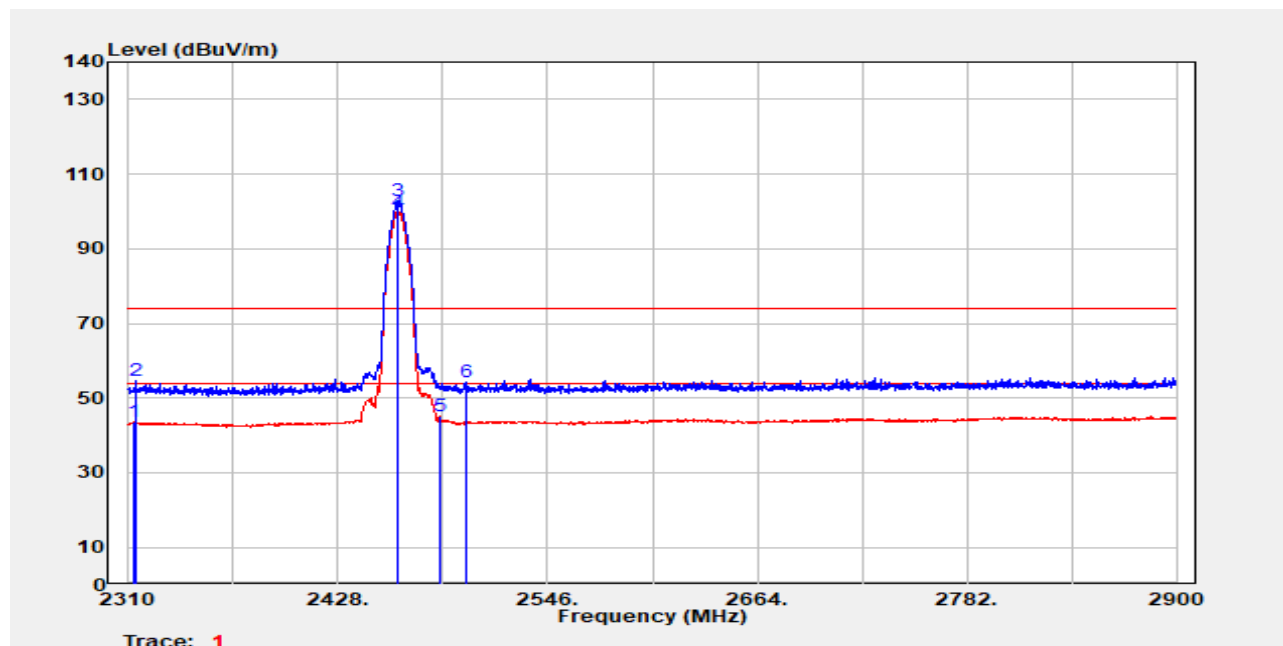
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Report Number :TERF2503000970E2
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-28
 Temp./Humi. :19.6°C/53%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2313.15	Average	40.35	3.11	43.46	54.00	-10.54
2314.13	Peak	51.56	3.11	54.67	74.00	-19.33
2462.00	Peak	99.95	2.83	102.78	-	-
2462.00	Average	97.05	2.83	99.88	-	-
2484.90	Average	42.06	2.99	45.05	54.00	-8.95
2499.85	Peak	51.15	3.02	54.17	74.00	-19.83

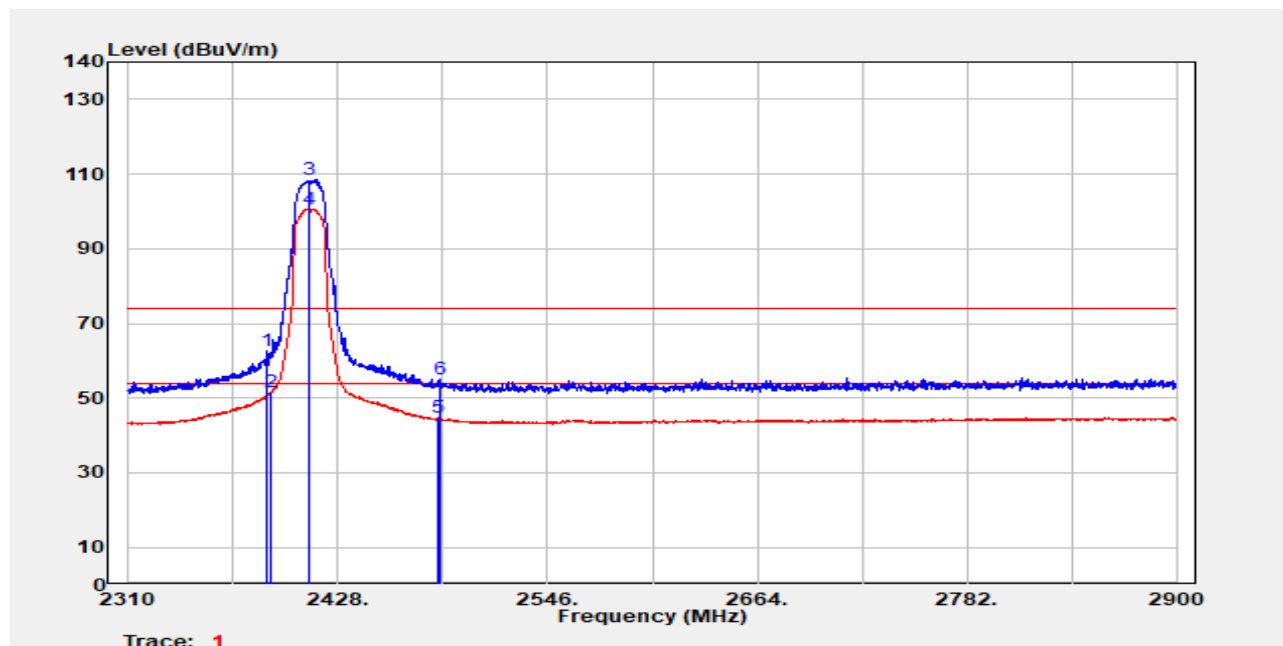
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Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-08
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.51	Peak	59.77	2.93	62.70	74.00	-11.30
2389.87	Average	48.59	2.96	51.55	54.00	-2.45
2412.00	Peak	105.72	2.91	108.63	-	-
2412.00	Average	97.79	2.91	100.70	-	-
2483.72	Average	41.63	2.98	44.61	54.00	-9.39
2484.90	Peak	52.00	2.99	54.99	74.00	-19.01

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台灣檢驗科技股份有限公司

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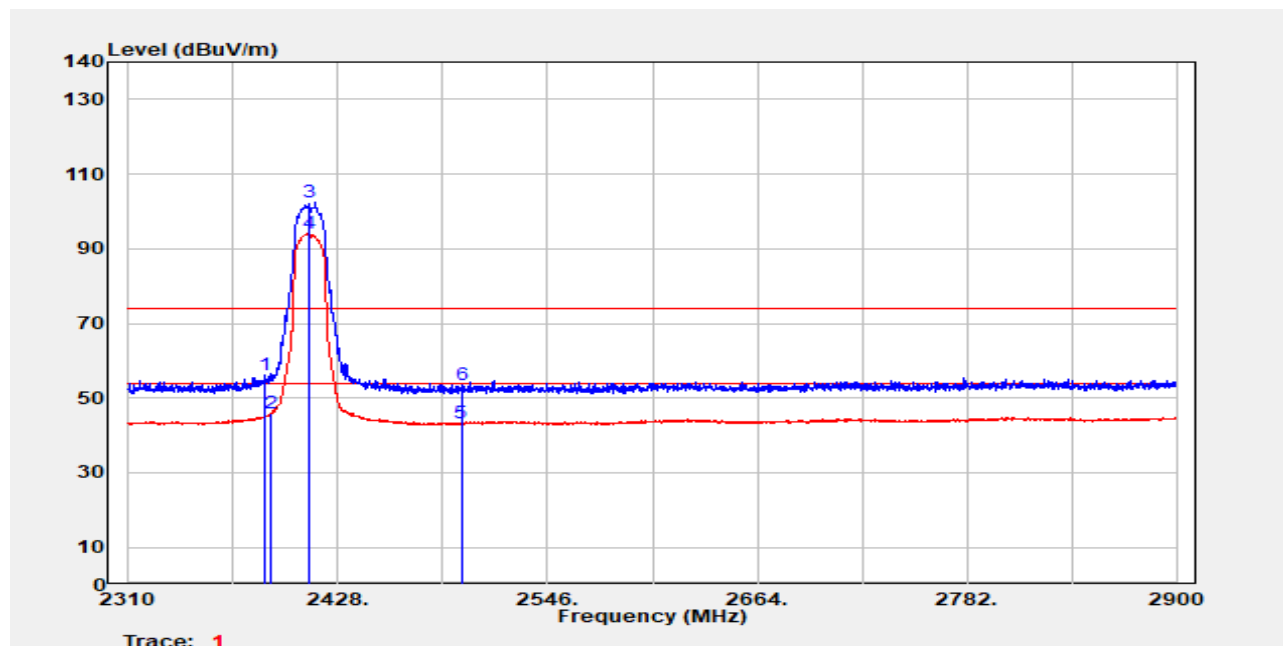
f (886-2) 2298-0488

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Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-27
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.73	Peak	53.13	2.92	56.05	74.00	-17.95
2389.87	Average	42.81	2.96	45.77	54.00	-8.23
2412.00	Peak	99.51	2.91	102.42	-	-
2412.00	Average	91.03	2.91	93.94	-	-
2497.29	Average	40.42	3.02	43.44	54.00	-10.56
2498.27	Peak	50.58	3.02	53.60	74.00	-20.40

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

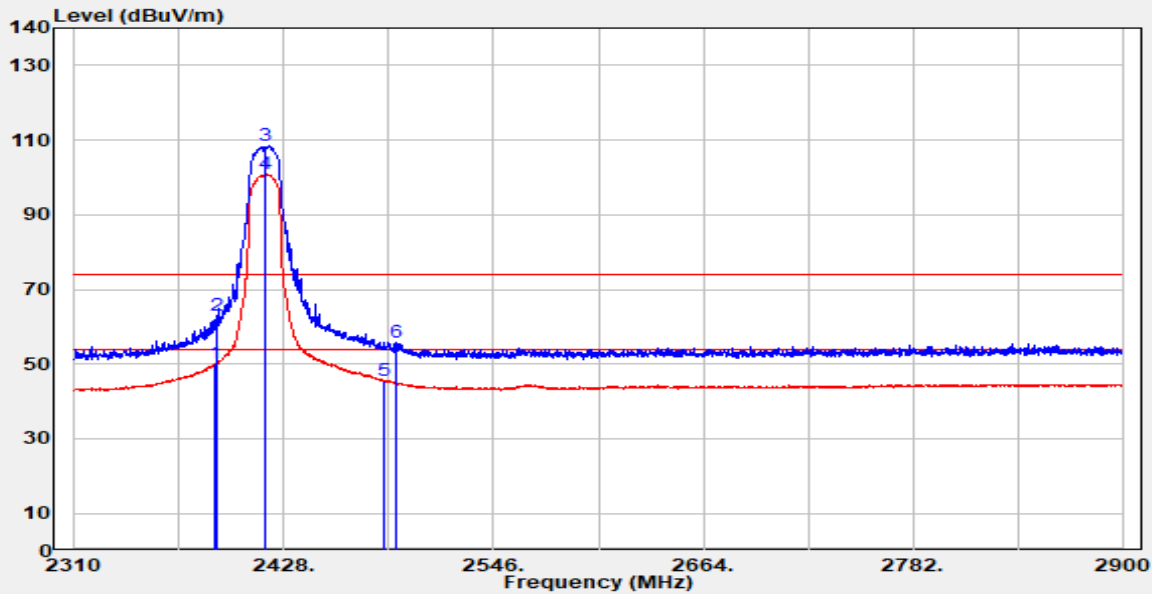
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Member of SGS Group

Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-11
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



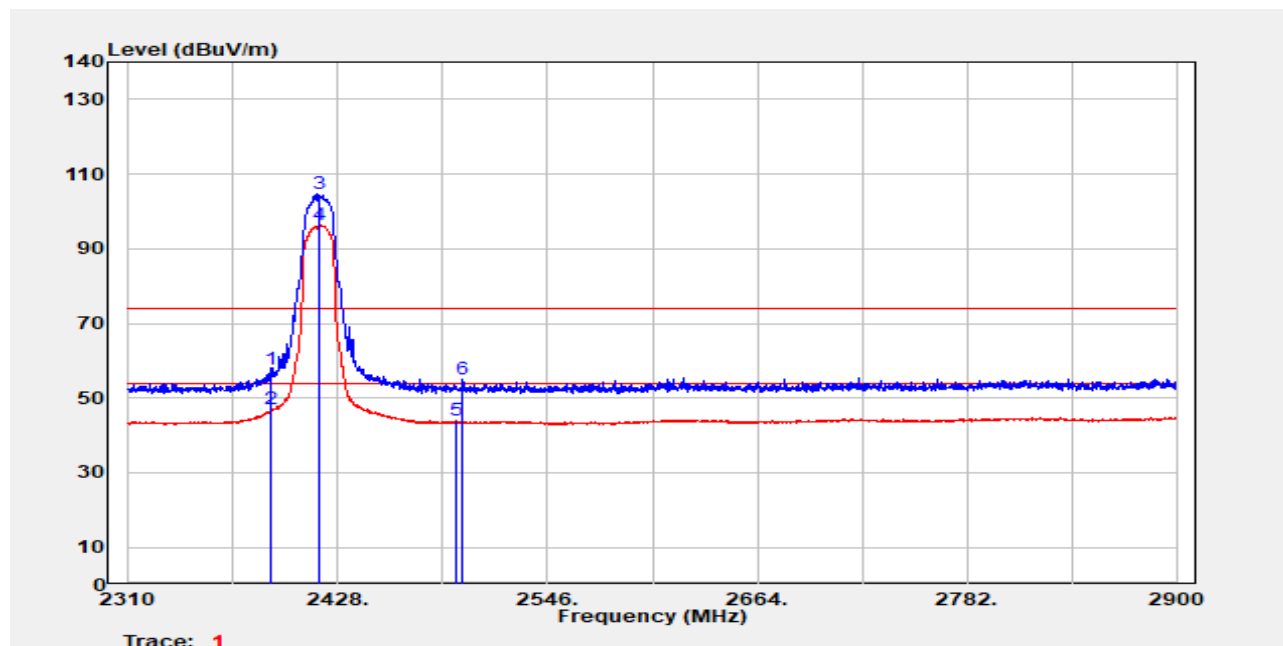
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.28	Average	47.20	2.95	50.15	54.00	-3.85
2389.68	Peak	59.98	2.96	62.94	74.00	-11.06
2417.00	Peak	105.71	2.92	108.63	-	-
2417.00	Average	97.83	2.92	100.75	-	-
2483.72	Average	42.69	2.98	45.67	54.00	-8.33
2490.99	Peak	52.80	3.00	55.80	74.00	-18.20

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Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-27
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



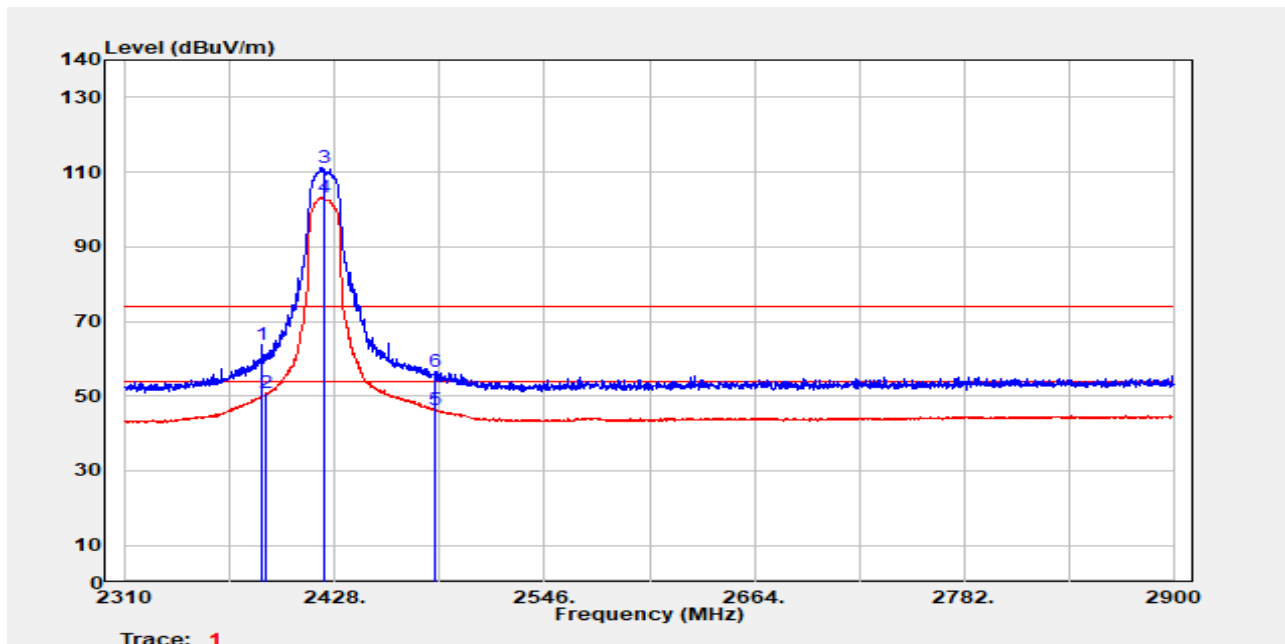
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.68	Peak	54.89	2.96	57.85	74.00	-16.15
2389.87	Average	43.92	2.96	46.88	54.00	-7.12
2417.00	Peak	101.66	2.92	104.58	-	-
2417.00	Average	93.29	2.92	96.21	-	-
2494.14	Average	40.89	3.01	43.90	54.00	-10.10
2498.27	Peak	51.86	3.02	54.88	74.00	-19.12

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Report Number :TERF2503000970E2
Operation Mode :802.11g
Test Frequency :2422 MHz
Test Mode :Bandedge
EUT Pol :E1 Plane

Test Site :SAC D
Test Date :2025-03-11
Temp./Humi. :18.6°C/56%
Antenna Pol. :Vertical
Engineer :Temo Chen



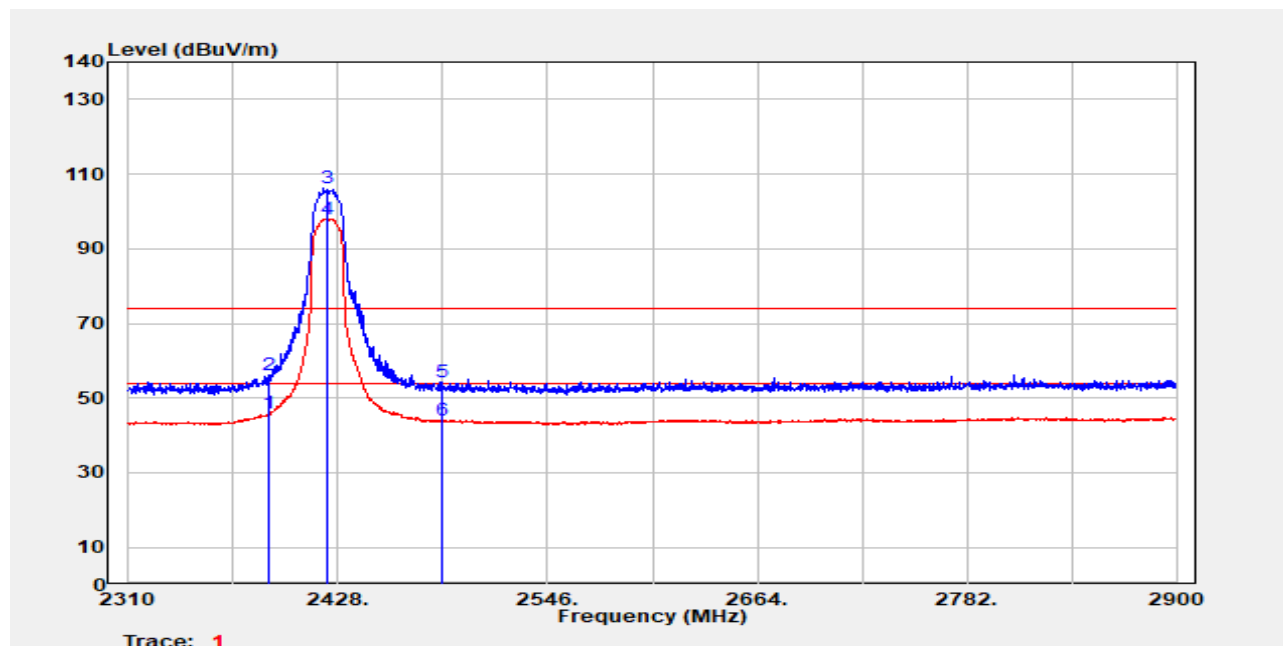
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.73	Peak	60.93	2.92	63.85	74.00	-10.15
2389.28	Average	47.76	2.95	50.71	54.00	-3.29
2422.00	Peak	108.22	2.96	111.18	-	-
2422.00	Average	100.13	2.96	103.09	-	-
2484.31	Average	43.38	2.98	46.36	54.00	-7.64
2484.50	Peak	53.46	2.99	56.45	74.00	-17.55

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Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-28
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.69	Average	43.11	2.95	46.06	54.00	-7.94
2388.89	Peak	53.16	2.95	56.11	74.00	-17.89
2422.00	Peak	103.30	2.96	106.26	-	-
2422.00	Average	95.09	2.96	98.05	-	-
2486.08	Peak	51.27	2.99	54.26	74.00	-19.74
2486.67	Average	41.09	2.99	44.08	54.00	-9.92

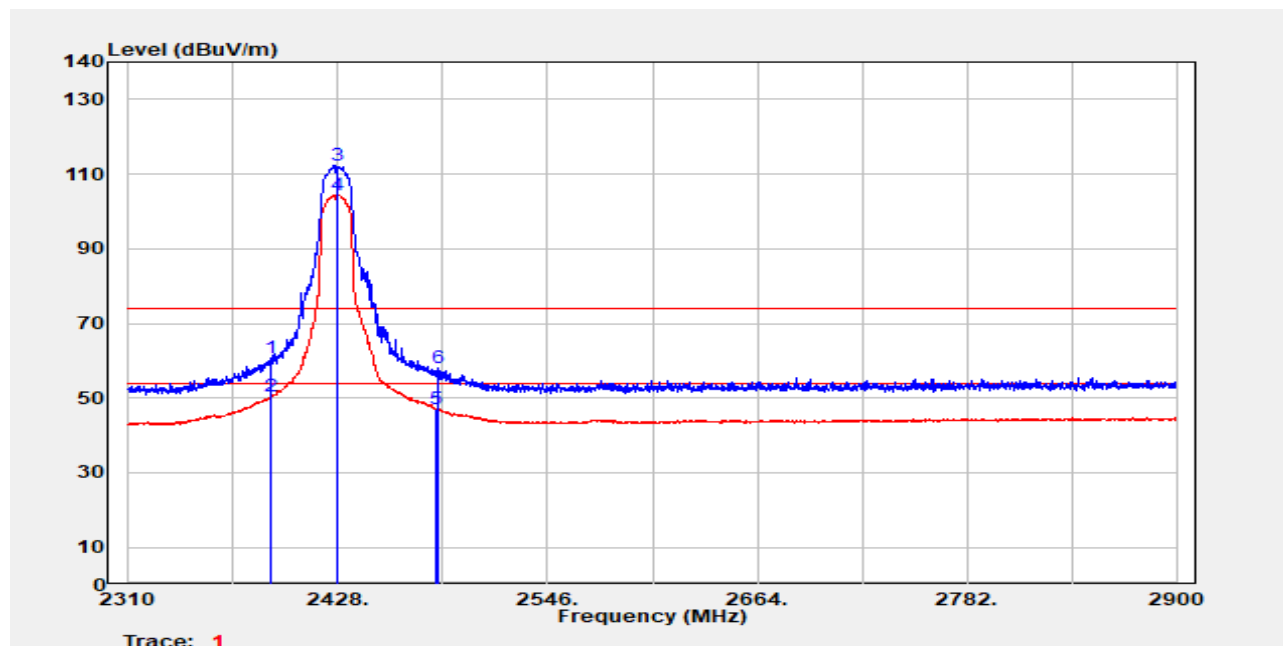
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Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-11
 Temp./Humi. :18.6°C/56%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



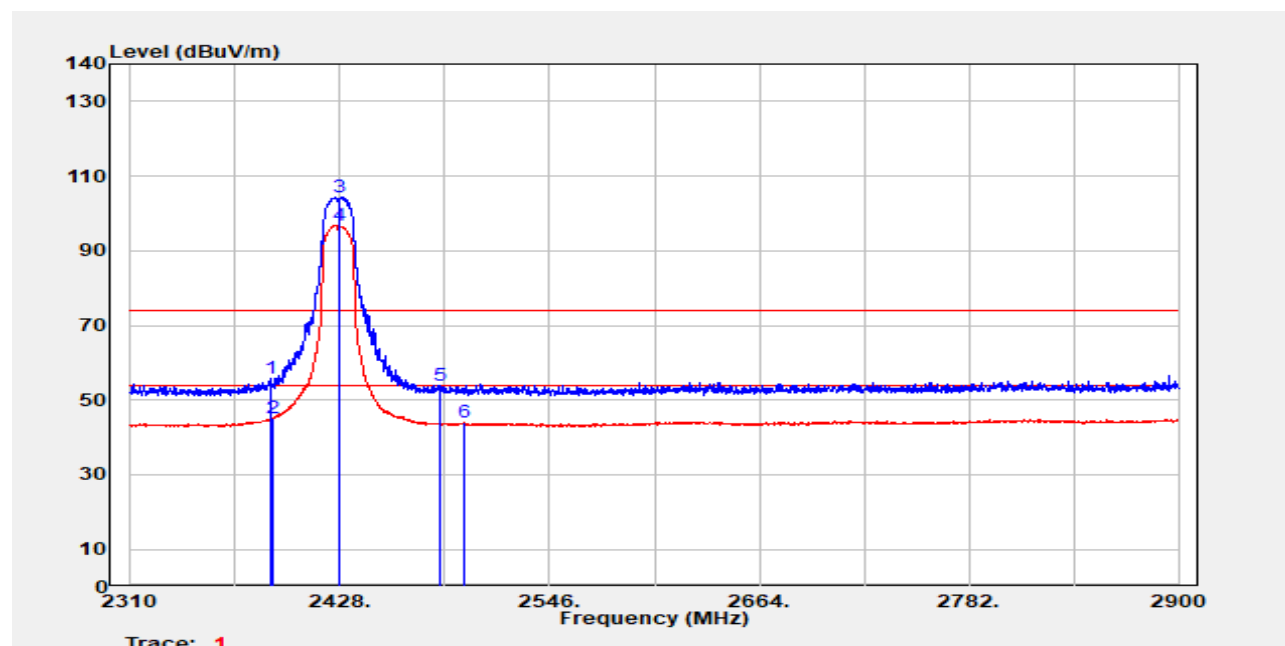
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.87	Peak	57.88	2.96	60.84	74.00	-13.16
2389.87	Average	47.58	2.96	50.54	54.00	-3.46
2427.00	Peak	109.35	3.01	112.36	-	-
2427.00	Average	101.38	3.01	104.39	-	-
2483.50	Average	44.11	2.98	47.09	54.00	-6.91
2484.70	Peak	54.97	2.99	57.96	74.00	-16.04

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Report Number :TERF2503000970E2
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC D
 Test Date :2025-03-28
 Temp./Humi. :20.2°C/55%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.28	Peak	52.64	2.95	55.59	74.00	-18.41
2389.68	Average	42.17	2.96	45.13	54.00	-8.87
2427.00	Peak	101.37	3.01	104.38	-	-
2427.00	Average	93.77	3.01	96.78	-	-
2484.11	Peak	50.78	2.98	53.76	74.00	-20.24
2497.88	Average	40.83	3.02	43.85	54.00	-10.15

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