

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

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

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

**Product Name:** Clover Mini, Clover Station Duo Terminal

**Brand Name:** Clover

**Model No. /ISED HVIN:** C305, C505

**Model Difference:** Refer to section 1.3

**ISED PMN:** C305, C505

**Report Number:** TERF2501000051E2

**FCC ID** HFS-C305

**IC:** 1787B-C305

**Date of EUT Received:** January 3, 2025

**Date of Test:** January 23, 2025 ~ February 24, 2025

**Issue Date:** March 7, 2025

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, 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
TERF2501000051E2	00	Class II permissive change for change End Front Module	March 7, 2025	Karen Huang	

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers / product name is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

Product Name:	Clover Mini, Clover Station Duo Terminal
Brand Name:	Clover
Model No./ISED HVIN:	C305, C505
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C035UT44450001
Power Supply:	12V from Adapter
Test Software (Name/Version)	QRCT 4.0

### 1.2 RF Specification

#### WLAN 2.4GHz

Mode	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	19.67	17.37	DSSS
802.11g	2412~2462	11	21.23	16.38	OFDM
802.11n_HT20	2412~2462	11	24.69	19.81	OFDM
802.11n_HT40	2422~2452	7	24.79	18.82	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 144.4Mbps			
		802.11n_HT40: up to 300Mbps			

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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	19.67	17.37	19.49	DSSS
802.11g	2412~2462	11	21.23	16.38	18.50	OFDM
802.11n_HT20	2412~2462	11	24.69	19.81	21.76	OFDM
802.11n_HT40	2422~2452	7	24.79	18.82	20.77	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 144.4Mbps				
		802.11n_HT40:up to 300Mbps				

### 1.3 Model Difference:

1. The components for printer are not mounted and there is no printer module for C505.
2. C505 doesn't have the paper compartment for printer.
3. C505 doesn't have the printer function.

### 1.4 Antenna Designation

Antenna Type	Freq. (MHz)	Main / Aux	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	2412-2462	Main	2.12	4.96
	2412-2462	Aux	1.78	4.96

#### Note:

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

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## 1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
RSS-247 issue 3 Aug. 2023  
RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)  
ANSI C63.10:2013

## 1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 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.

## 1.7 Special Accessories

There are no special accessories used while test was conducted.

## 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Conducted Test (RF)

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

#### 2.3.3 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

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

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

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

### 2.4.2 For all conducted test items:

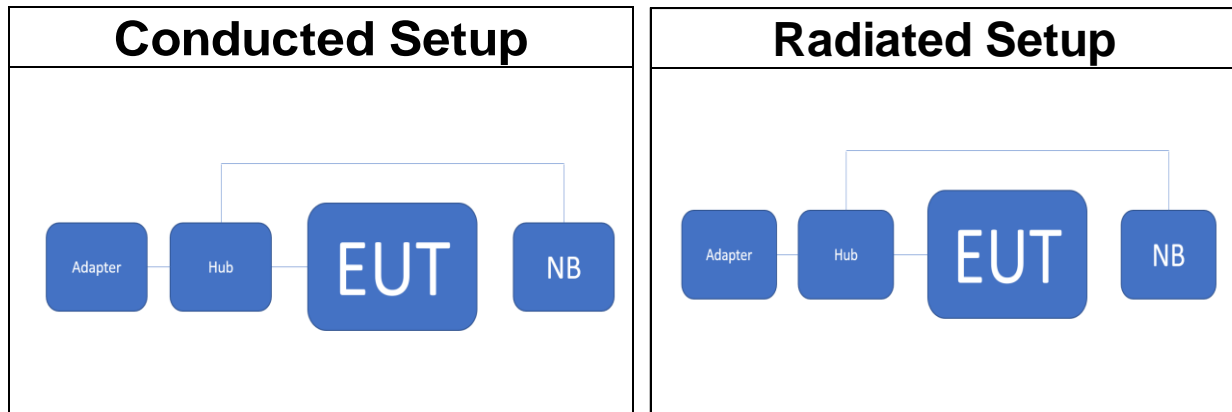
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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## 2.5 Test Configuration



## 2.6 Control Unit(s)

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Type-A To Type-B Cable	POLYWELL	DCAC18-A900F9BL9	N/A	N/A	N/A
HUB	Clocer	H305	H035UT44450004	N/A	N/A
Adapter	Clocer	FSP040-RHBN3	FSQAG12033C0052 4183D45	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L412	S0011357	N/A	N/A
Type-A To Type-B Cable	POLYWELL	DCAC18-A900F9BL9	N/A	N/A	N/A
HUB	Clocer	H305	H035UT44450004	N/A	N/A
Adapter	Clocer	FSP040-RHBN3	FSQAG12033C0052 4183D45	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.209 §15.247(d)	RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant

#### Note

1. This test report is an addendum to the original test report TERF2208001391E2.

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

Modulation of BW 20MHz		Modulation of BW 40MHz	
CHANNEL	FREQUENCY (MHz)	CHANNEL	FREQUENCY (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
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	V	Ch1		Ch2		Ch3	V	1TX		2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3	V	1TX		2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 be		Ch0		Ch1		Ch2		Ch3		1TX		2TX

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

CONDUCTED 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	2TX
802.11n_HT40	3 to 9	3,6,9	OFDM	MCS0	2TX

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	6	DSSS	1	Ch0

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	Ch0
802.11g	1 to 11	1,11	OFDM	6	Ch0
802.11n_HT20	1 to 11	1,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,9	OFDM	MCS0	2TX

**Note:**

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

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 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
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 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 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
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

### 6.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/14/2024	11/13/2025
High Pass Filter	WI	WHKX10-2624-3200-18000-80SS	RF176	11/14/2024	11/13/2025
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWI-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	05/08/2024	05/07/2025
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/28/2024	06/27/2025
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 PEAK OUTPUT POWER MEASUREMENT

### 7.1 Standard Applicable

#### 7.1.1 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.

#### 7.1.2 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.

#### 7.1.3 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.

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

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

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

where

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

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NSS = the number of independent spatial streams of data;

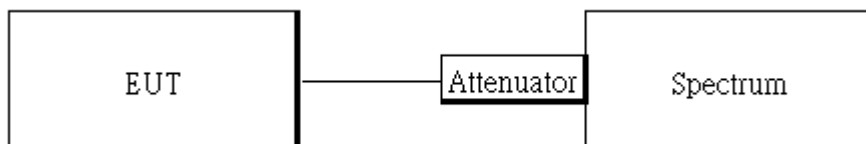
NANT = the total number of antennas

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

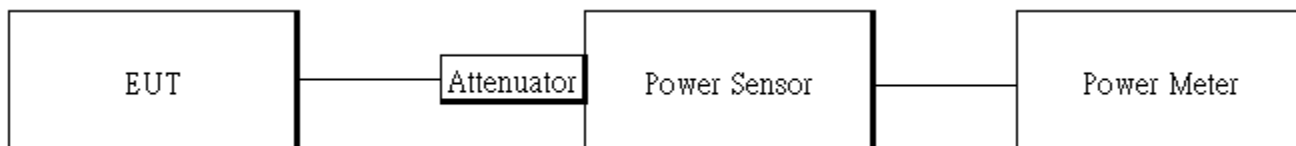
$G_k$  is the gain in dBi of the kth antenna.

## 7.2 Test Setup

### 7.2.1 Duty Cycle



### 7.2.2 Output Power:



## 7.3 Measurement Procedure

### 7.3.1 Duty Cycle:

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

### 7.3.2 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.
5. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

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

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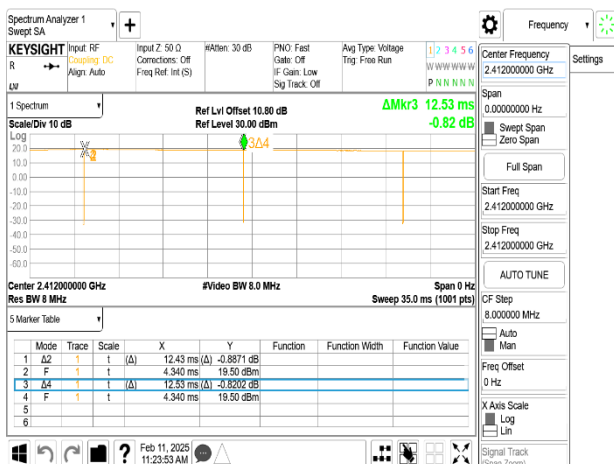
## 7.4 Measurement Result

### 7.4.1 Duty Cycle:

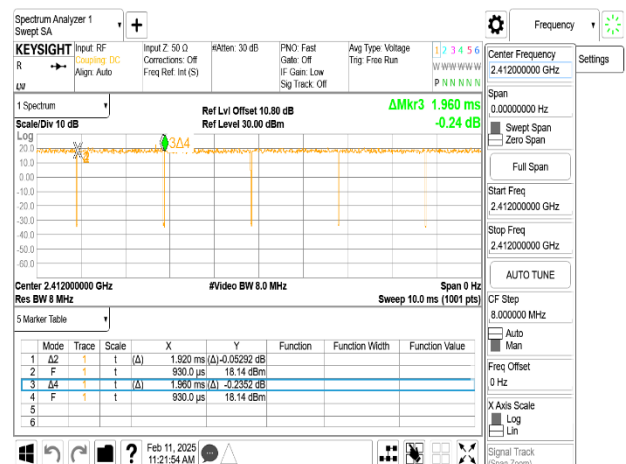
Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) = 10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11b	99.20	0.03	0.08	0.01
802.11g	98.09	0.08	0.49	0.01
802.11n_20	97.96	0.09	0.52	1.00
802.11n_40	95.00	0.22	1.05	2.00

### 7.4.2 Duty Cycle test plots

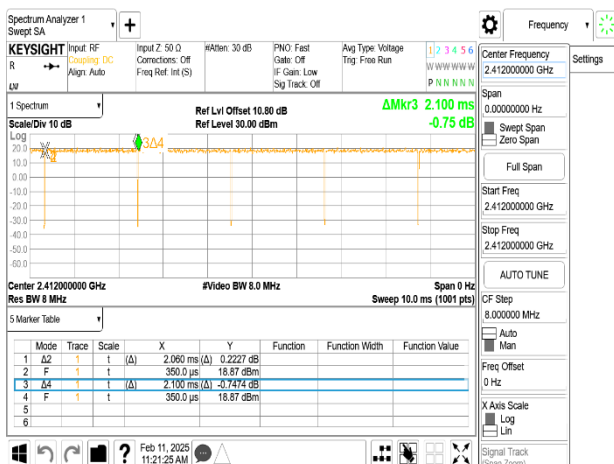
802.11b\_20MHz\_Chain0\_2412MHz



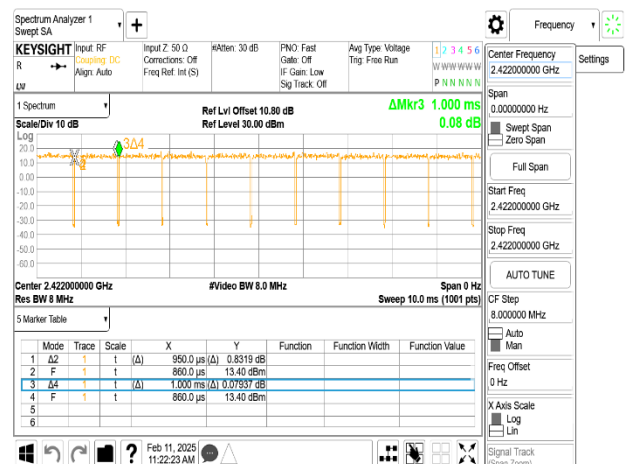
802.11n\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2412MHz



802.11n\_40MHz\_Chain0\_2422MHz



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### 7.4.3 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	13.5	90.16	19.55	30.00	PASS
6	2437	1	13.5	88.51	19.47	30.00	PASS
11	2462	1	14	92.68	19.67	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	13.5	53.15	17.25	30.00	PASS
6	2437	1	13.5	52.66	17.21	30.00	PASS
11	2462	1	14	54.64	17.37	30.00	PASS

802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	13.5	87.50	19.42	30.00	PASS
6	2437	1	13.5	86.10	19.35	30.00	PASS
11	2462	1	13.5	89.54	19.52	30.00	PASS

802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	13.5	52.06	17.16	30.00	PASS
6	2437	1	13.5	51.46	17.11	30.00	PASS
11	2462	1	13.5	53.52	17.28	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	12.5	129.12	21.11	30.00	PASS
6	2437	6	12.5	132.74	21.23	30.00	PASS
11	2462	6	12.5	123.59	20.92	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	12.5	42.30	16.26	30.00	PASS
6	2437	6	12.5	43.49	16.38	30.00	PASS
11	2462	6	12.5	41.53	16.18	30.00	PASS

## 802.11g Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	12.5	126.18	21.01	30.00	PASS
6	2437	6	12.5	130.32	21.15	30.00	PASS
11	2462	6	12.5	122.18	20.87	30.00	PASS

## 802.11g Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	12.5	41.63	16.19	30.00	PASS
6	2437	6	12.5	42.50	16.28	30.00	PASS
11	2462	6	12.5	40.77	16.10	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	13	141.91	21.52	30.00	PASS
6	2437	MCS0	13	151.71	21.81	30.00	PASS
11	2462	MCS0	13	139.64	21.45	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	13	46.45	16.67	30.00	PASS
6	2437	MCS0	13	48.64	16.87	30.00	PASS
11	2462	MCS0	13	44.97	16.53	30.00	PASS

## 802.11n\_HT\_20M Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13	138.04	21.40	30.00	PASS
6	2437	MCS0	13	148.59	21.72	30.00	PASS
11	2462	MCS0	13	136.14	21.34	30.00	PASS

## 802.11n\_HT\_20M Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	13	44.97	16.53	30.00	PASS
6	2437	MCS0	13	47.42	16.76	30.00	PASS
11	2462	MCS0	13	44.25	16.46	30.00	PASS

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## 802.11n\_HT20M\_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	MCS0	13.5	21.75	21.45	289.26	24.61	30.00	PASS
6	2437	MCS0	13.5	21.84	21.51	294.34	24.69	30.00	PASS
11	2462	MCS0	13.5	21.71	21.42	286.93	24.58	30.00	PASS

## 802.11n\_HT20M\_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
1	2412	MCS0	13.5	16.87	16.58	94.13	19.74	30.00	PASS
6	2437	MCS0	13.5	16.94	16.65	95.66	19.81	30.00	PASS
11	2462	MCS0	13.5	16.84	16.55	93.48	19.71	30.00	PASS

## 802.11n\_HT\_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.5	146.89	21.67	30.00	PASS
6	2437	MCS0	12.5	149.97	21.76	30.00	PASS
9	2452	MCS0	12.5	144.21	21.59	30.00	PASS

## 802.11n\_HT\_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.5	38.13	15.81	30.00	PASS
6	2437	MCS0	12.5	38.66	15.87	30.00	PASS
9	2452	MCS0	12.5	37.35	15.72	30.00	PASS

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## 802.11n\_HT\_40M Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.5	143.55	21.57	30.00	PASS
6	2437	MCS0	12.5	147.23	21.68	30.00	PASS
9	2452	MCS0	12.5	141.25	21.50	30.00	PASS

## 802.11n\_HT\_40M Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	12.5	37.35	15.72	30.00	PASS
6	2437	MCS0	12.5	38.04	15.80	30.00	PASS
9	2452	MCS0	12.5	36.67	15.64	30.00	PASS

## 802.11n\_HT40M\_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
3	2422	MCS0	12.5	21.78	21.61	295.54	24.71	30.00	PASS
6	2437	MCS0	12.5	21.86	21.69	301.03	24.79	30.00	PASS
9	2452	MCS0	12.5	21.71	21.55	291.14	24.64	30.00	PASS

## 802.11n\_HT40M\_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (mW)	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1				
3	2422	MCS0	12.5	15.80	15.64	74.71	18.73	30.00	PASS
6	2437	MCS0	12.5	15.88	15.73	76.19	18.82	30.00	PASS
9	2452	MCS0	12.5	15.74	15.60	73.85	18.68	30.00	PASS

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#### 7.4.4 EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.25	2.12	19.37	36	PASS
6	2437	1	17.21	2.12	19.33	36	PASS
11	2462	1	17.37	2.12	<b>19.49</b>	36	PASS
802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	17.16	1.78	18.94	36	PASS
6	2437	1	17.11	1.78	18.89	36	PASS
11	2462	1	17.28	1.78	19.06	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	16.26	2.12	18.38	36	PASS
6	2437	6	16.38	2.12	<b>18.50</b>	36	PASS
11	2462	6	16.18	2.12	18.30	36	PASS
802.11g Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	16.19	1.78	17.97	36	PASS
6	2437	6	16.28	1.78	18.06	36	PASS
11	2462	6	16.10	1.78	17.88	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	16.67	2.12	18.79	36	PASS
6	2437	MCS0	16.87	2.12	18.99	36	PASS
11	2462	MCS0	16.53	2.12	18.65	36	PASS

## 802.11n\_HT\_20M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.53	1.78	18.31	36	PASS
6	2437	MCS0	16.76	1.78	18.54	36	PASS
11	2462	MCS0	16.46	1.78	18.24	36	PASS

## 802.11n\_HT20M\_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	MCS0	16.87	16.58	19.74	1.95	21.69	36	PASS
6	2437	MCS0	16.94	16.65	19.81	1.95	<b>21.76</b>	36	PASS
11	2462	MCS0	16.84	16.55	19.71	1.95	21.66	36	PASS

## 802.11n\_HT\_40M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.81	2.12	17.93	36	PASS
6	2437	MCS0	15.87	2.12	17.99	36	PASS
9	2452	MCS0	15.72	2.12	17.84	36	PASS

## 802.11n\_HT\_40M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.72	1.78	17.50	36	PASS
6	2437	MCS0	15.80	1.78	17.58	36	PASS
9	2452	MCS0	15.64	1.78	17.42	36	PASS

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## 802.11n\_HT40M\_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
3	2422	MCS0	15.80	15.64	18.73	1.95	20.69	36	PASS
6	2437	MCS0	15.88	15.73	18.82	1.95	<b>20.77</b>	36	PASS
9	2452	MCS0	15.74	15.60	18.68	1.95	20.64	36	PASS

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## 8 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 8.1 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:**

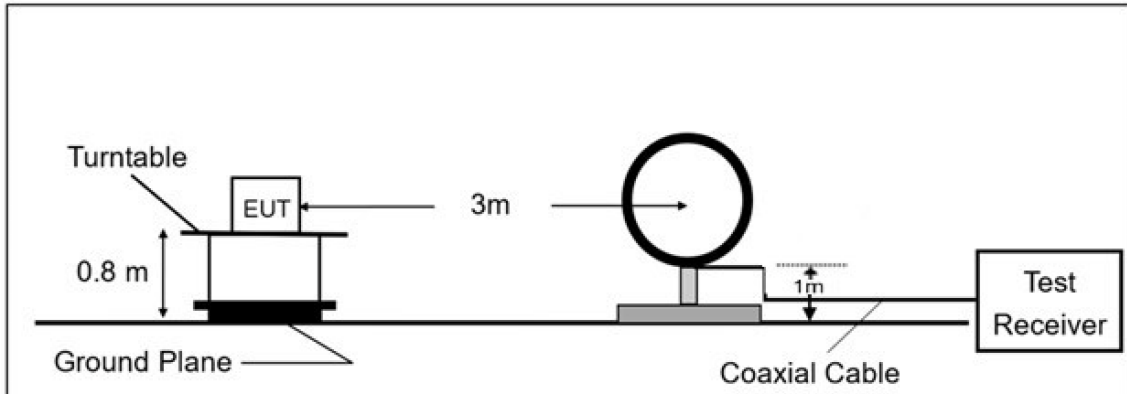
1. The lower limit shall apply at the transition frequencies.

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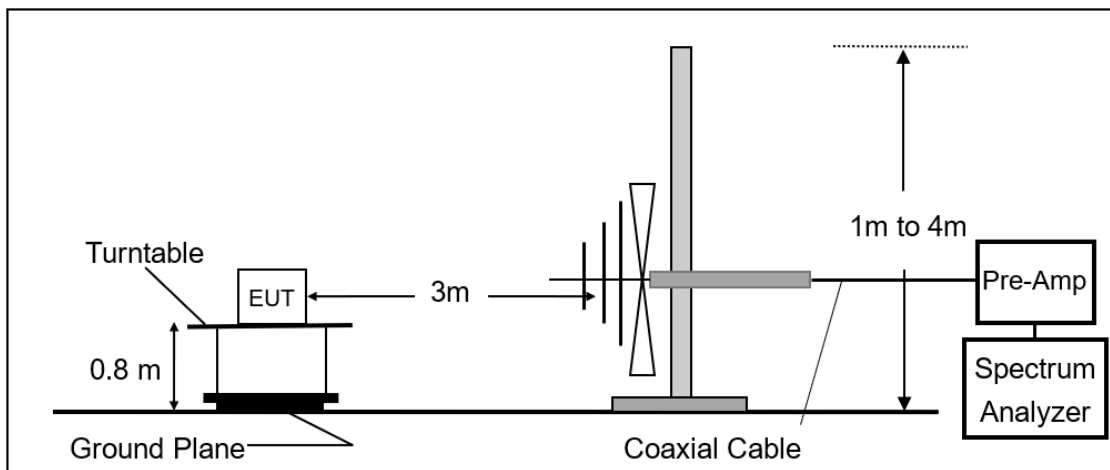
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## 8.2 Test Setup

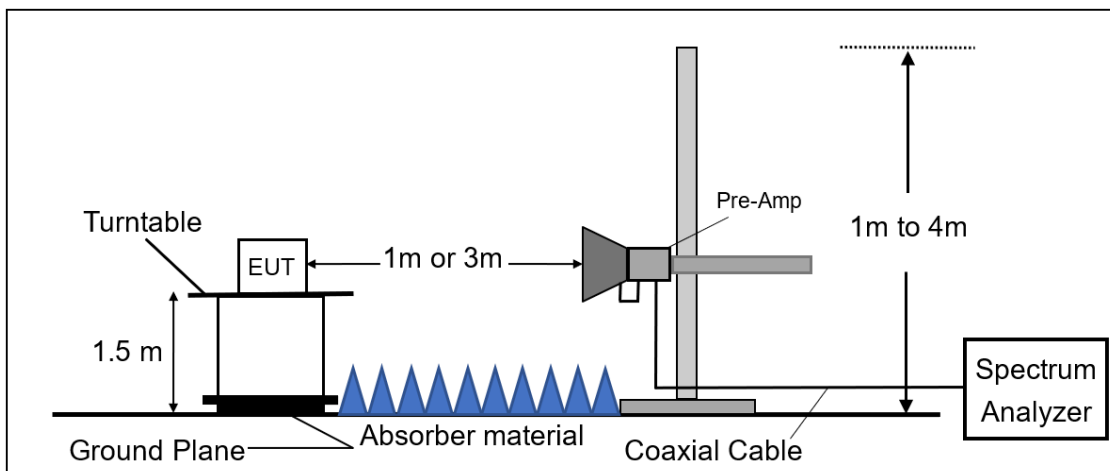
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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### 8.3 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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## 8.4 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(dBuV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

## 8.5 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.

## 8.6 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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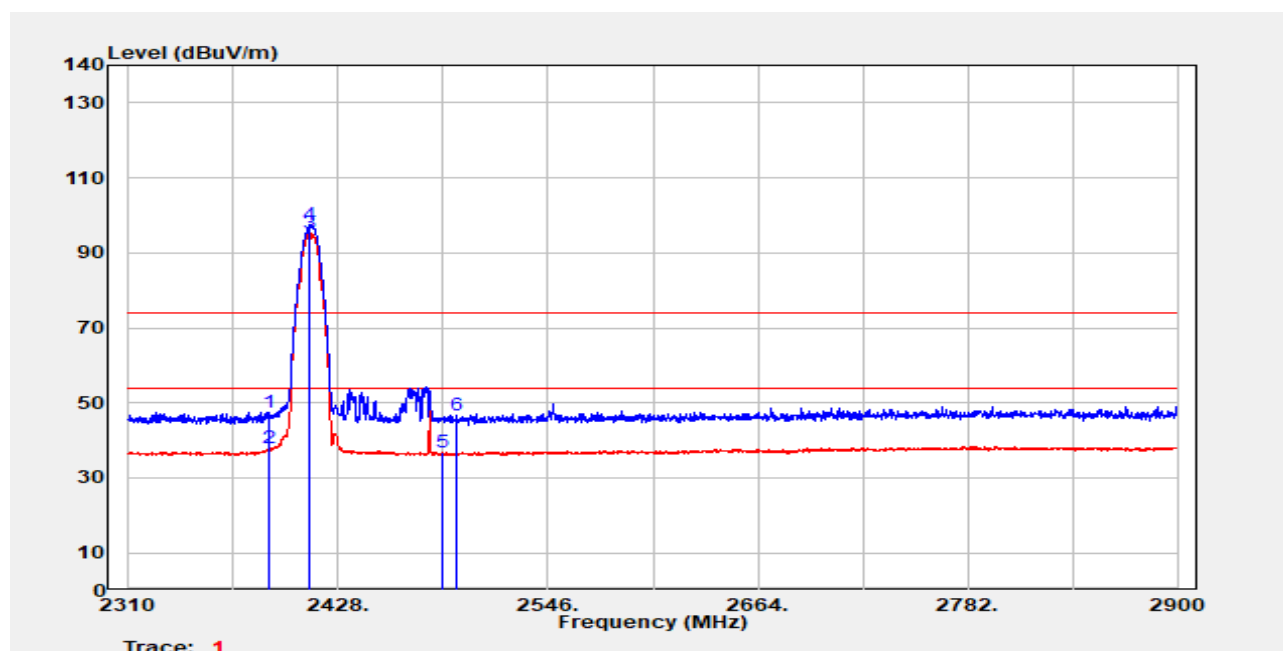
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## 8.6.1 Radiated Band Edge Measurement Result

Model: C305

Report Number :TERF2501000051E2  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



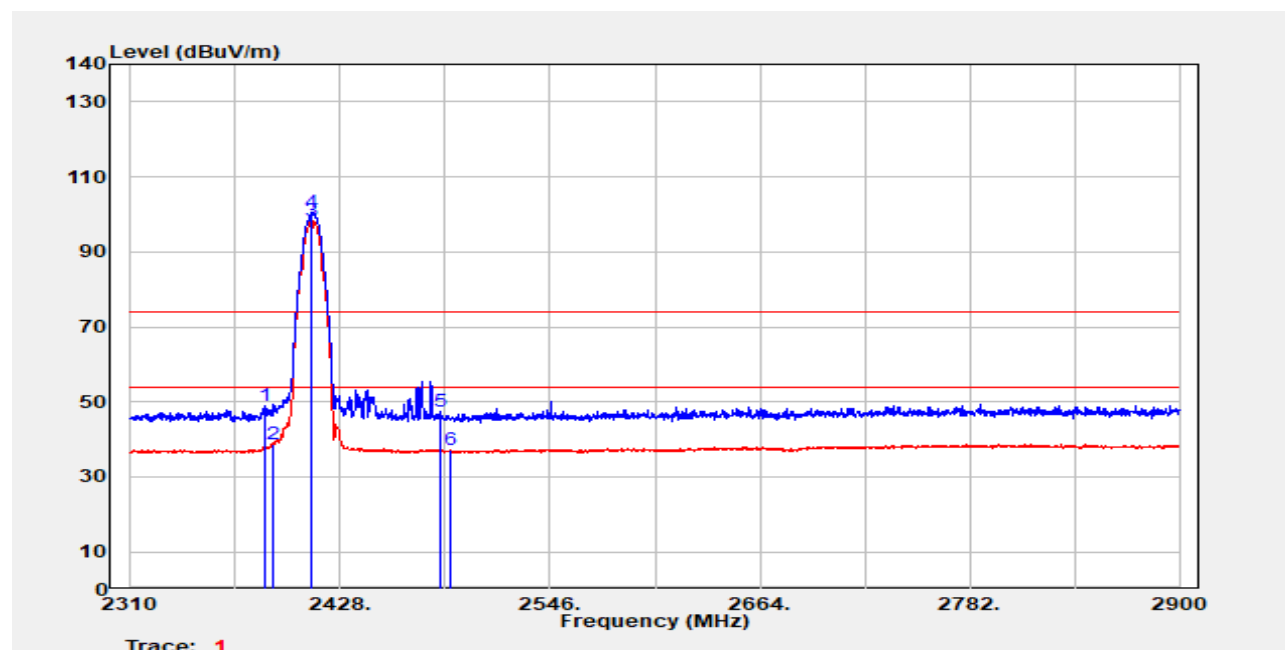
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.69	Peak	50.73	-3.13	47.60	74.00	-26.40
2389.48	Average	41.04	-3.13	37.91	54.00	-16.09
2412.00	Average	98.63	-3.30	95.33	-	-
2412.00	Peak	100.96	-3.30	97.66	-	-
2486.67	Average	40.25	-3.37	36.88	54.00	-17.12
2494.73	Peak	50.17	-3.37	46.80	74.00	-27.20

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Report Number :TERF2501000051E2  
 Operation Mode :802.11b  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2385.55	Peak	52.07	-3.17	48.90	74.00	-25.10
2389.68	Average	41.90	-3.12	38.78	54.00	-15.22
2412.00	Average	101.41	-3.30	98.11	-	-
2412.00	Peak	103.84	-3.30	100.54	-	-
2484.50	Peak	50.65	-3.37	47.28	74.00	-26.72
2489.42	Average	40.51	-3.37	37.14	54.00	-16.86

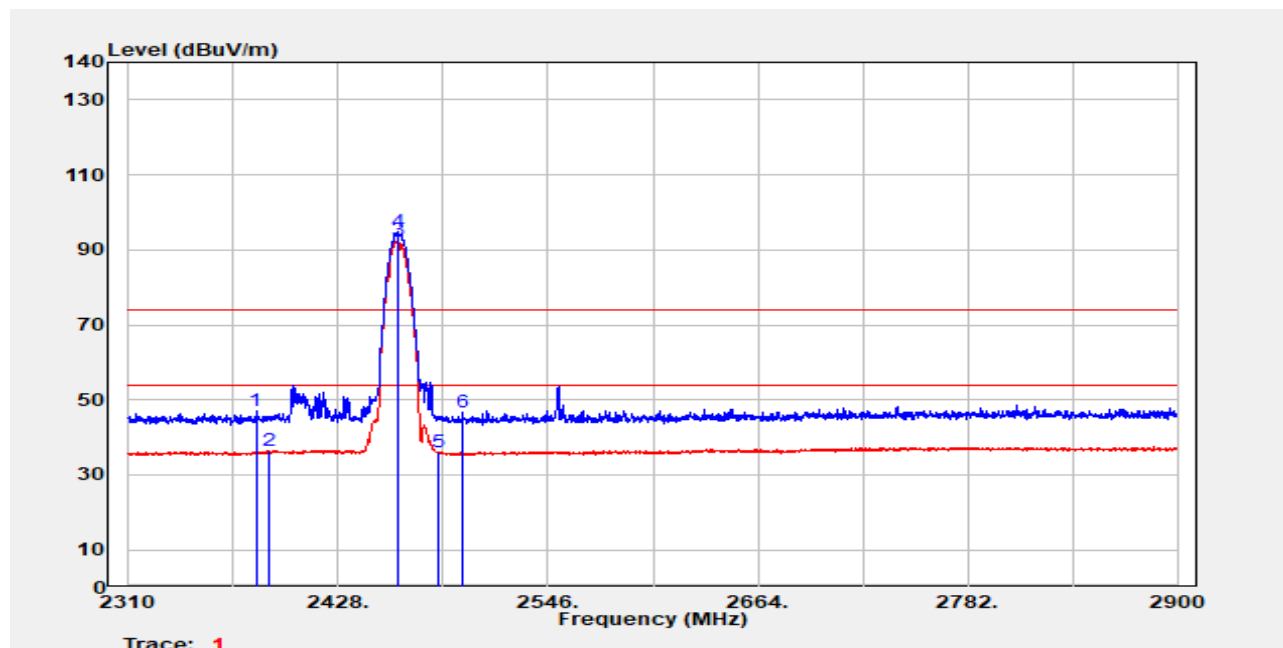
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Report Number :TERF2501000051E2  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2381.61	Peak	50.17	-3.21	46.96	74.00	-27.04
2389.09	Average	39.38	-3.13	36.25	54.00	-17.75
2462.00	Average	95.85	-3.45	92.40	-	-
2462.00	Peak	98.44	-3.45	94.99	-	-
2484.11	Average	39.40	-3.37	36.03	54.00	-17.97
2497.49	Peak	50.05	-3.38	46.67	74.00	-27.33

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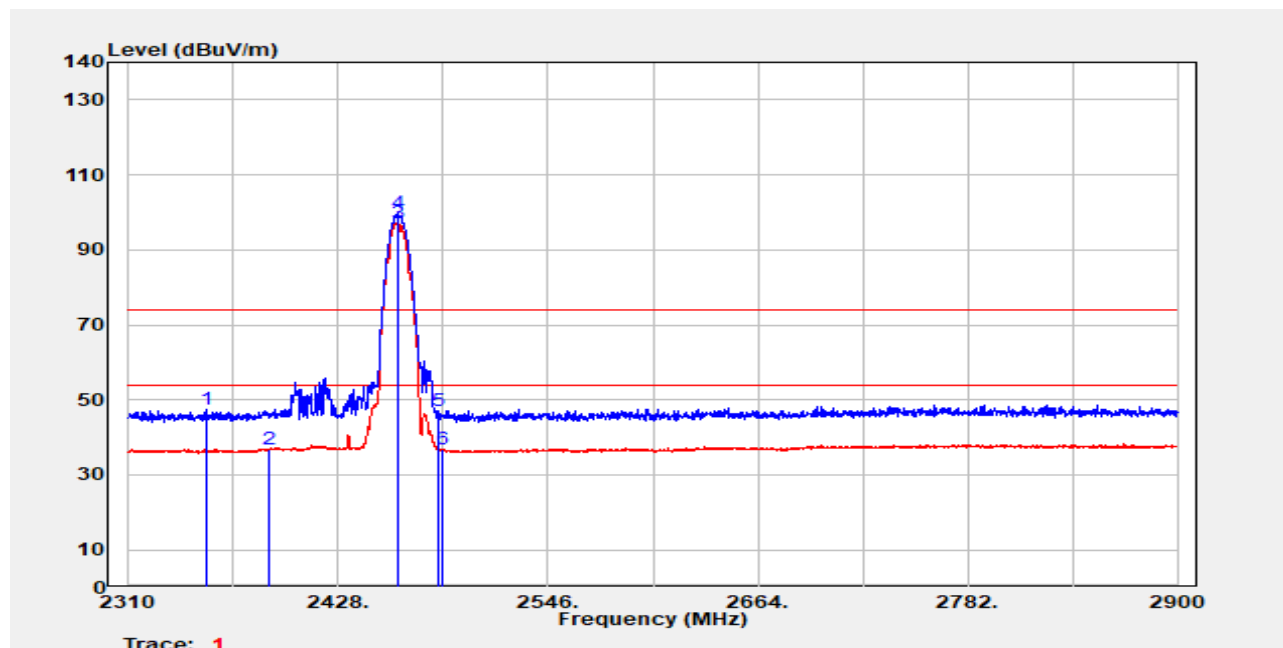
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Report Number :TERF2501000051E2  
 Operation Mode :802.11b  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2354.07	Peak	50.58	-3.16	47.42	74.00	-26.58
2388.69	Average	40.03	-3.13	36.90	54.00	-17.10
2462.00	Average	100.67	-3.45	97.22	-	-
2462.00	Peak	103.26	-3.45	99.81	-	-
2484.70	Peak	50.44	-3.37	47.07	74.00	-26.93
2486.08	Average	40.34	-3.37	36.97	54.00	-17.03

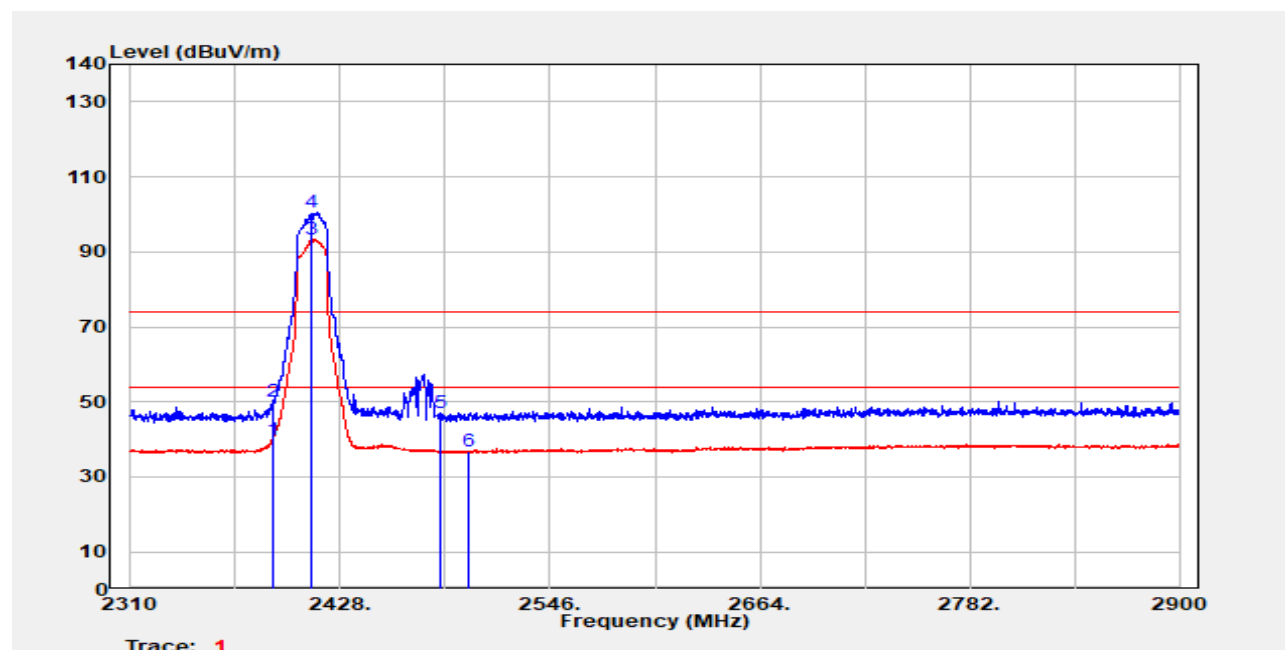
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Report Number :TERF2501000051E2  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



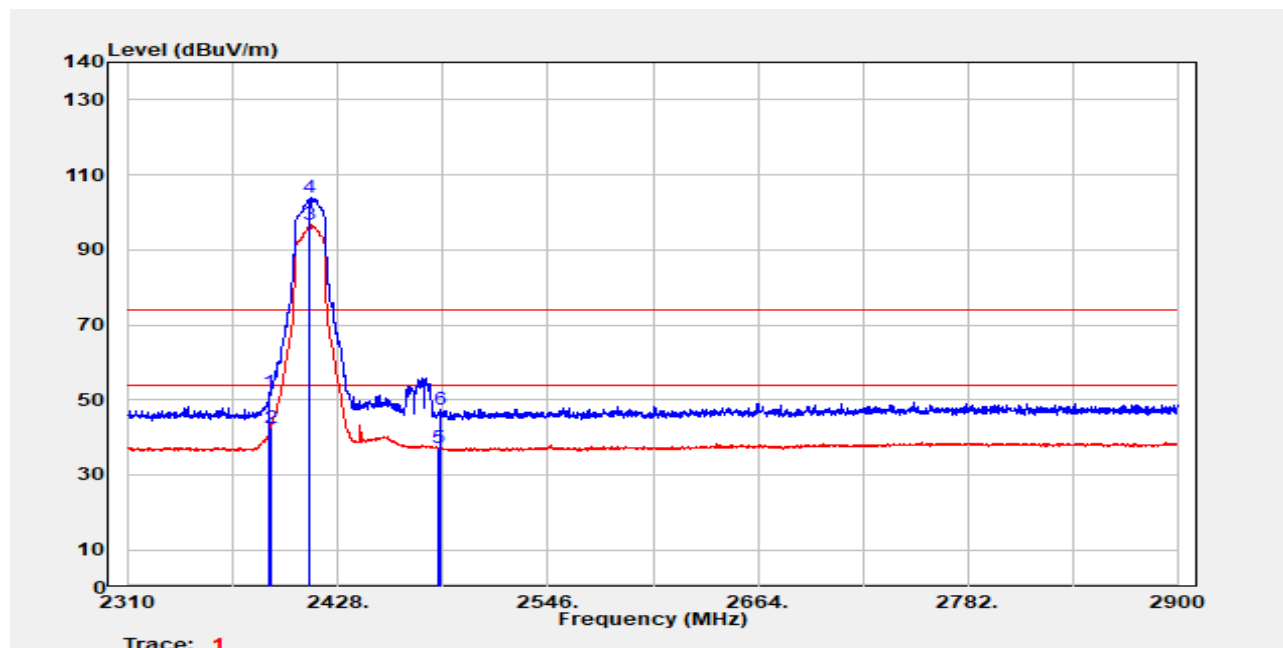
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.87	Average	43.12	-3.12	40.00	54.00	-14.00
2389.87	Peak	53.04	-3.12	49.92	74.00	-24.08
2412.00	Average	96.80	-3.30	93.50	-	-
2412.00	Peak	103.75	-3.30	100.45	-	-
2484.31	Peak	50.48	-3.37	47.11	74.00	-26.89
2499.65	Average	40.35	-3.38	36.97	54.00	-17.03

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Report Number :TERF2501000051E2  
 Operation Mode :802.11g  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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	55.09	-3.13	51.96	74.00	-22.04
2389.87	Average	45.75	-3.12	42.63	54.00	-11.37
2412.00	Average	99.93	-3.30	96.63	-	-
2412.00	Peak	107.19	-3.30	103.89	-	-
2484.31	Average	40.66	-3.37	37.29	54.00	-16.71
2484.90	Peak	50.69	-3.37	47.32	74.00	-26.68

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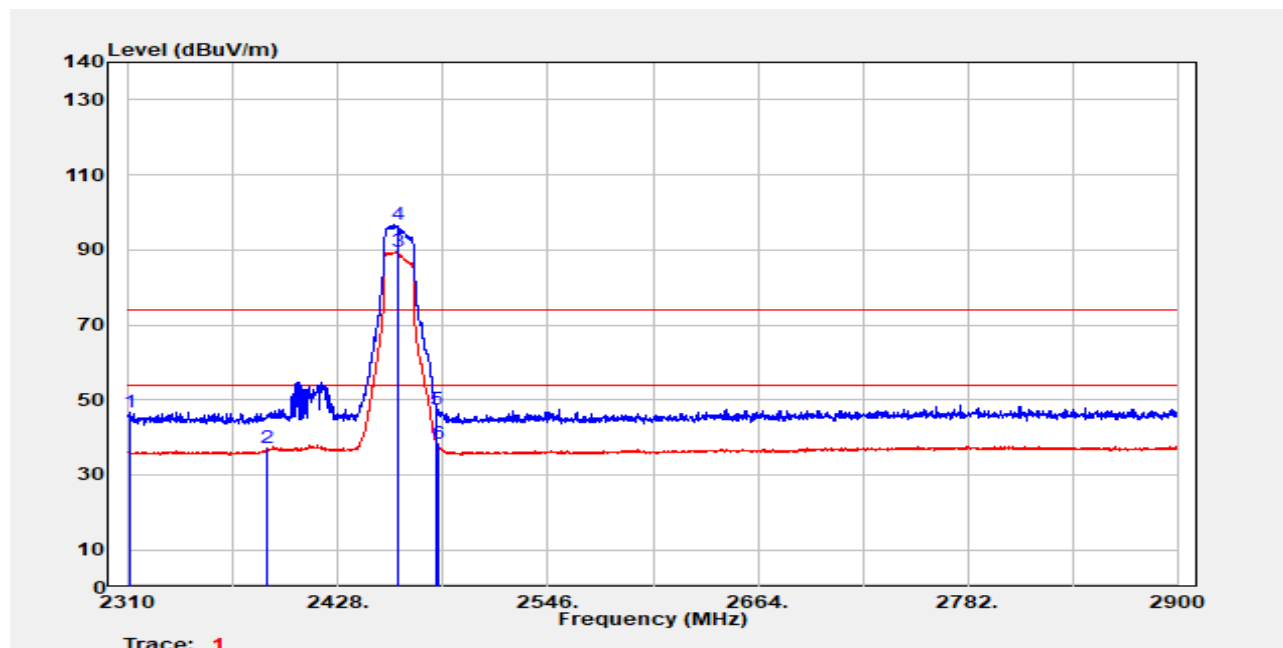
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Report Number :TERF2501000051E2  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2310.20	Peak	49.89	-3.12	46.77	74.00	-27.23
2388.30	Average	40.14	-3.14	37.00	54.00	-17.00
2462.00	Average	92.90	-3.45	89.45	-	-
2462.00	Peak	100.17	-3.45	96.72	-	-
2483.50	Peak	50.94	-3.37	47.57	74.00	-26.43
2483.72	Average	41.58	-3.37	38.21	54.00	-15.79

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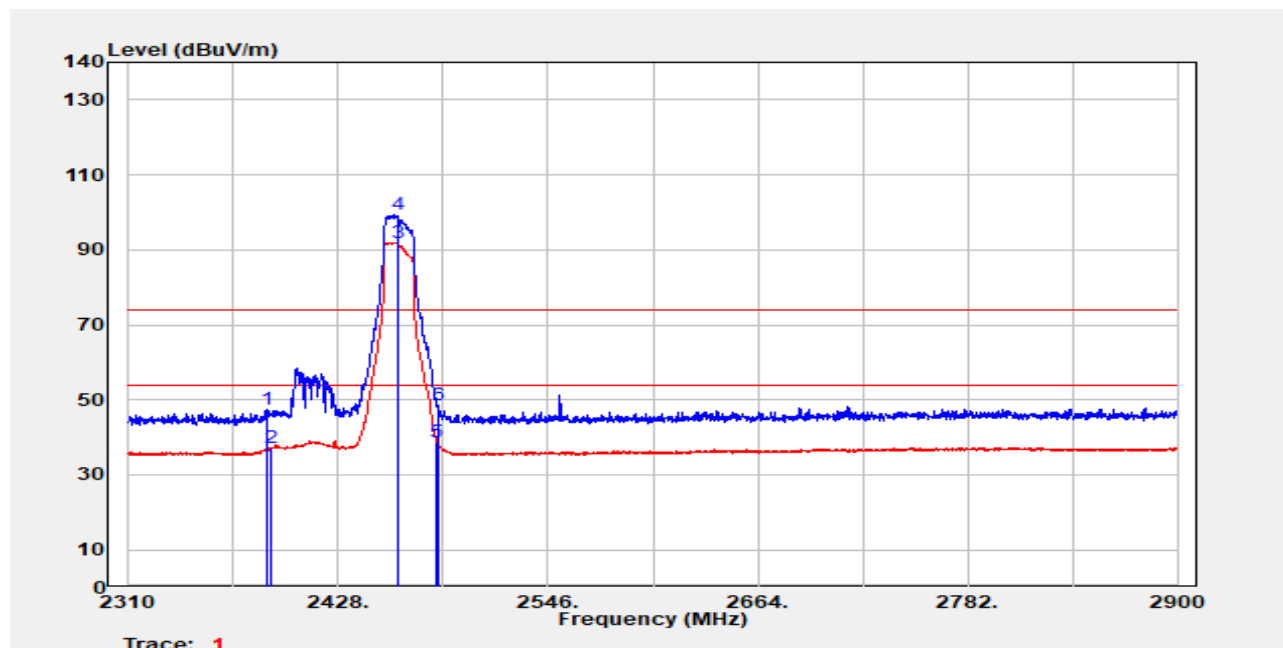
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Report Number :TERF2501000051E2  
 Operation Mode :802.11g  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2387.91	Peak	50.63	-3.14	47.49	74.00	-26.51
2389.87	Average	40.27	-3.12	37.15	54.00	-16.85
2462.00	Average	95.39	-3.45	91.94	-	-
2462.00	Peak	102.75	-3.45	99.30	-	-
2483.50	Average	42.06	-3.37	38.69	54.00	-15.31
2483.91	Peak	52.08	-3.37	48.71	74.00	-25.29

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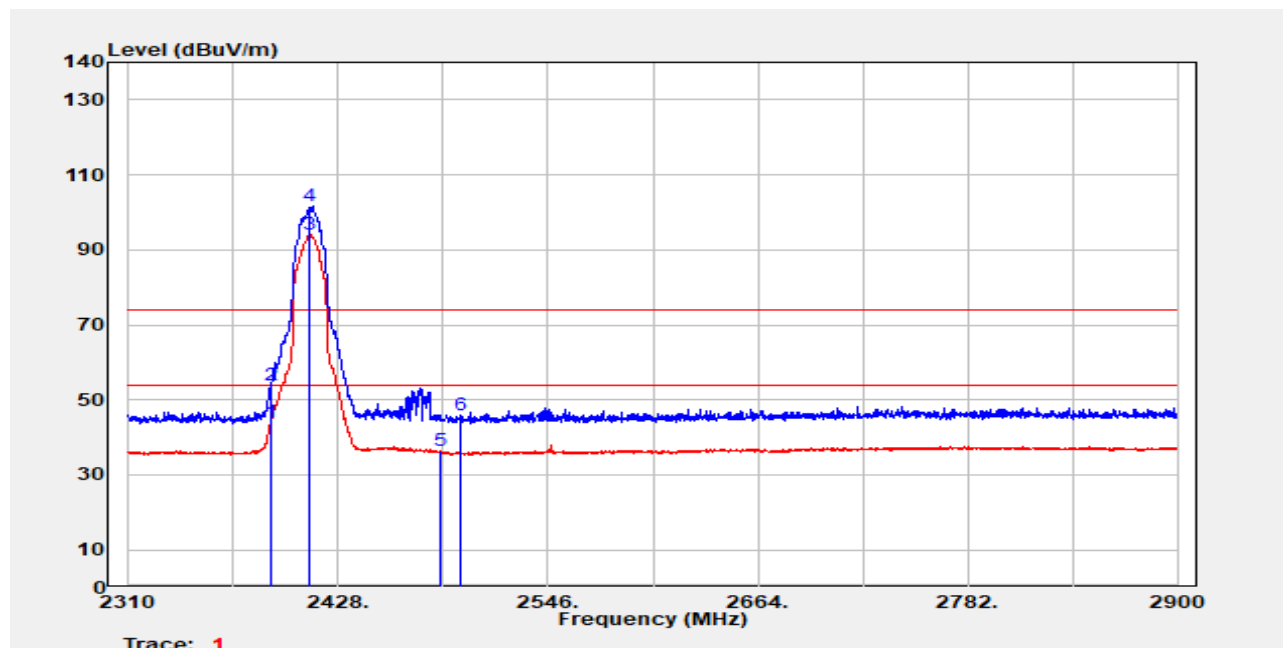
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2389.87	Average	47.09	-3.12	43.97	54.00	-10.03
2389.87	Peak	57.18	-3.12	54.06	74.00	-19.94
2412.00	Average	97.37	-3.30	94.07	-	-
2412.00	Peak	105.01	-3.30	101.71	-	-
2485.88	Average	39.69	-3.37	36.32	54.00	-17.68
2496.70	Peak	49.45	-3.38	46.07	74.00	-27.93

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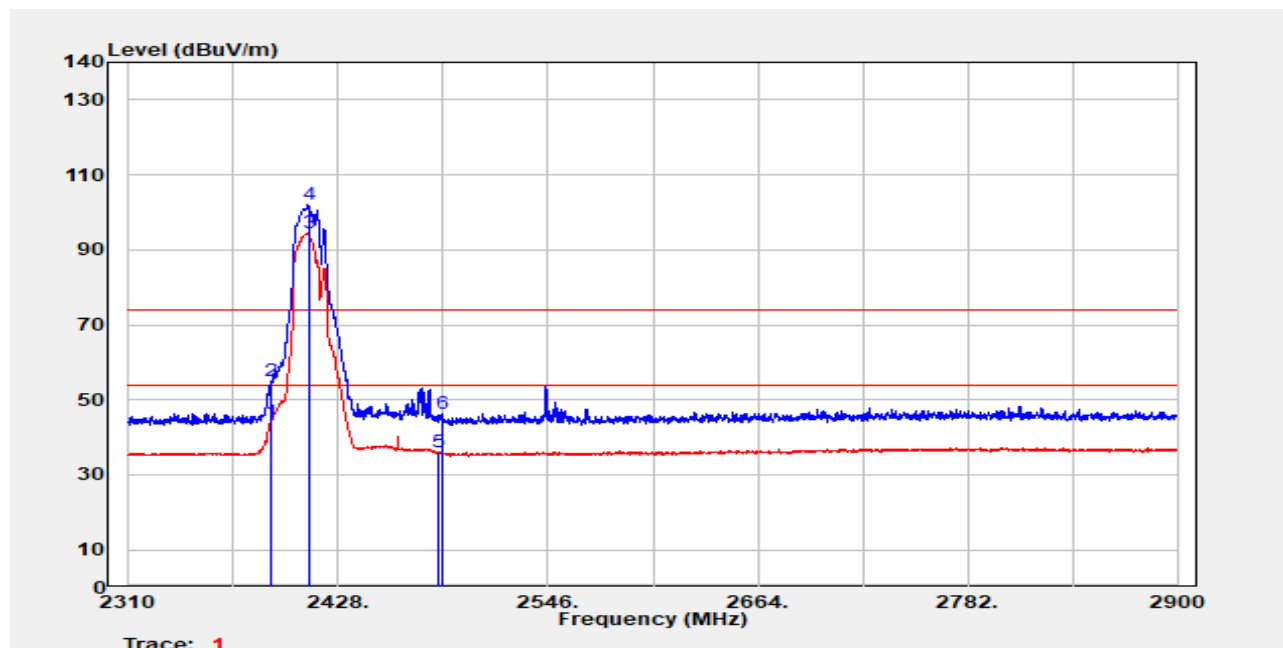
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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	Average	47.22	-3.12	44.10	54.00	-9.90
2389.87	Peak	58.08	-3.12	54.96	74.00	-19.04
2412.00	Average	97.75	-3.30	94.45	-	-
2412.00	Peak	105.31	-3.30	102.01	-	-
2484.11	Average	39.36	-3.37	35.99	54.00	-18.01
2486.08	Peak	49.56	-3.37	46.19	74.00	-27.81

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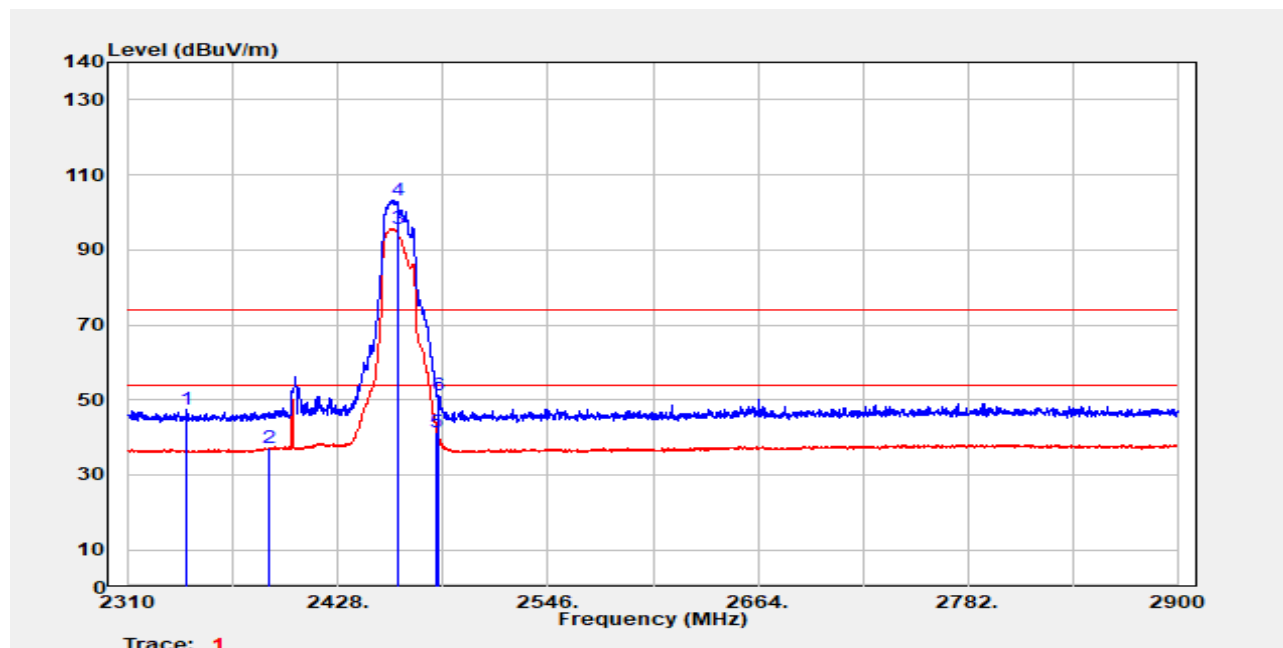
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2342.85	Peak	50.50	-3.17	47.33	74.00	-26.67
2389.48	Average	40.26	-3.13	37.13	54.00	-16.87
2462.00	Average	99.06	-3.45	95.61	-	-
2462.00	Peak	106.57	-3.45	103.12	-	-
2483.50	Average	44.75	-3.37	41.38	54.00	-12.62
2484.70	Peak	54.53	-3.37	51.16	74.00	-22.84

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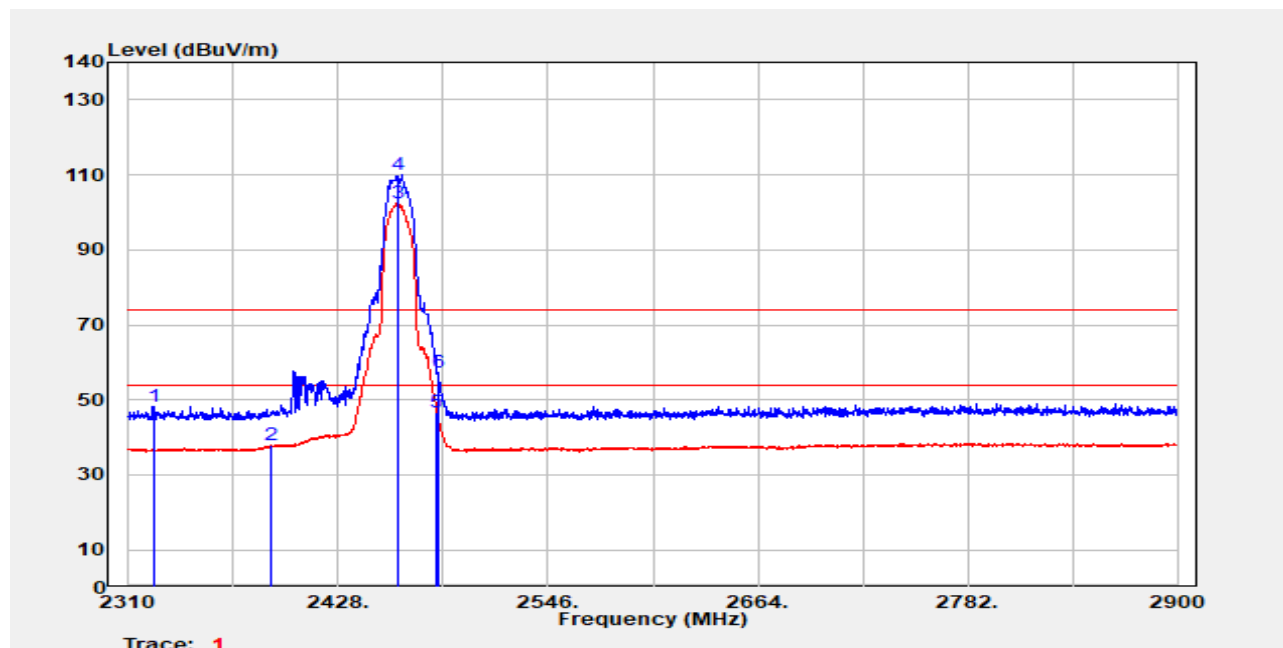
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2462 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2323.77	Peak	51.41	-3.21	48.20	74.00	-25.80
2389.87	Average	40.90	-3.12	37.78	54.00	-16.22
2462.00	Average	105.86	-3.45	102.41	-	-
2462.00	Peak	113.33	-3.45	109.88	-	-
2483.50	Average	49.85	-3.37	46.48	54.00	-7.52
2483.91	Peak	60.47	-3.37	57.10	74.00	-16.90

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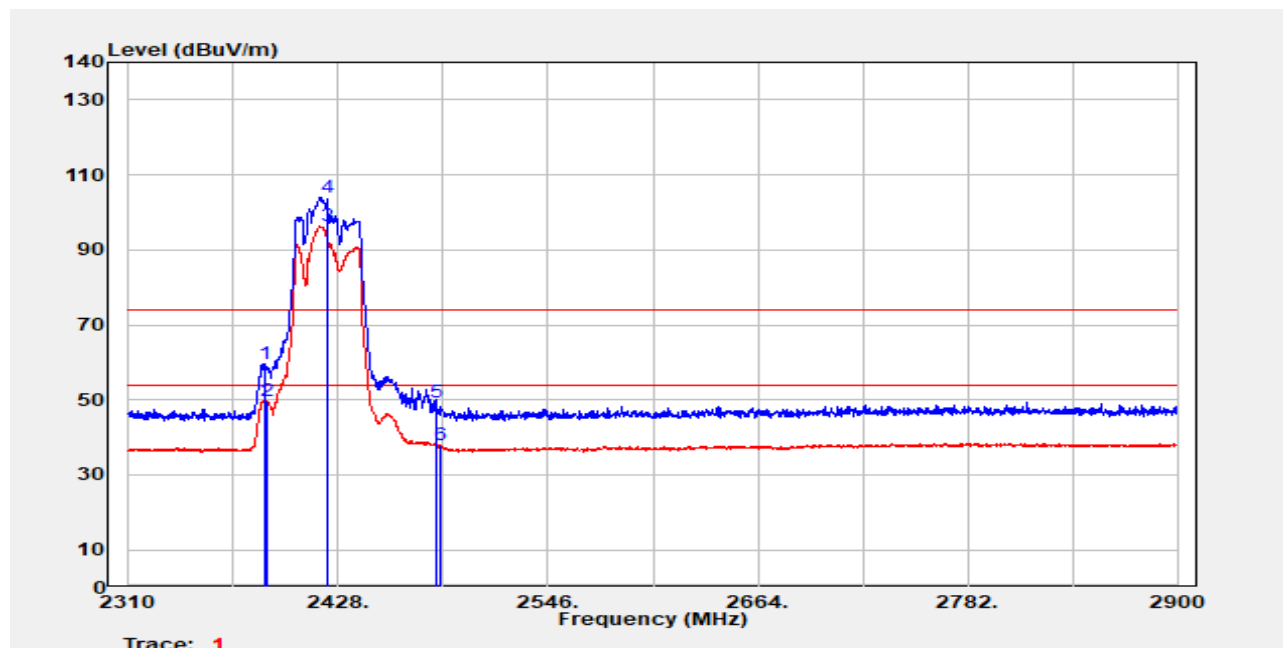
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 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
2386.33	Peak	62.88	-3.17	59.71	74.00	-14.29
2387.71	Average	52.89	-3.14	49.75	54.00	-4.25
2422.00	Average	99.42	-3.22	96.20	-	-
2422.00	Peak	107.33	-3.22	104.11	-	-
2483.50	Peak	52.82	-3.37	49.45	74.00	-24.55
2485.09	Average	41.24	-3.37	37.87	54.00	-16.13

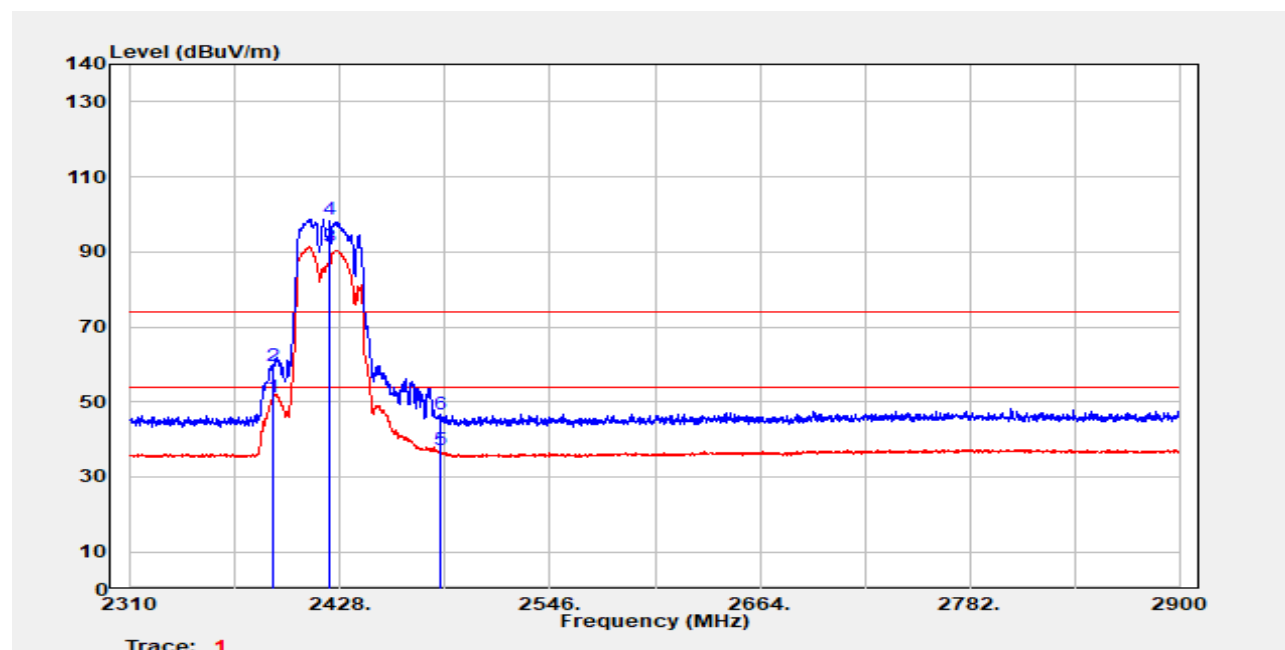
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n40  
 Test Frequency :2422 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



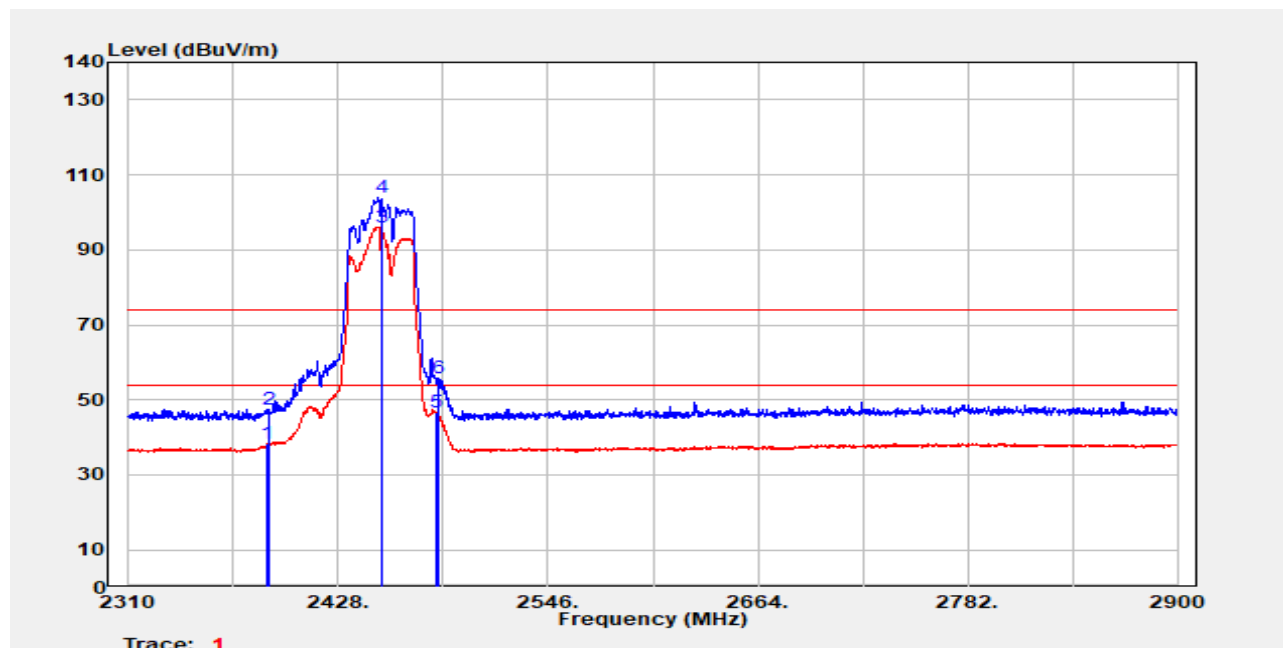
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.87	Average	54.30	-3.12	51.18	54.00	-2.82
2389.87	Peak	62.72	-3.12	59.60	74.00	-14.40
2422.00	Average	94.53	-3.22	91.31	-	-
2422.00	Peak	101.85	-3.22	98.63	-	-
2483.72	Average	40.58	-3.37	37.21	54.00	-16.79
2483.72	Peak	50.13	-3.37	46.76	74.00	-27.24

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Report Number :TERF2501000051E2  
Operation Mode :802.11n40  
Test Frequency :2452 MHz  
Test Mode :Bandedge  
EUT Pol :E2 Plane

Test Site :SAC G Chamber  
Test Date :2025-02-20  
Temp./Humi. :22.1°C/57%  
Antenna Pol. :Vertical  
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
2379.91	Average	41.41	-3.14	38.27	54.00	-15.73
2389.28	Peak	50.61	-3.13	47.48	74.00	-26.52
2452.00	Average	99.50	-3.45	96.05	-	-
2452.00	Peak	107.30	-3.45	103.85	-	-
2483.50	Average	49.88	-3.37	46.51	54.00	-7.49
2483.72	Peak	59.04	-3.37	55.67	74.00	-18.33

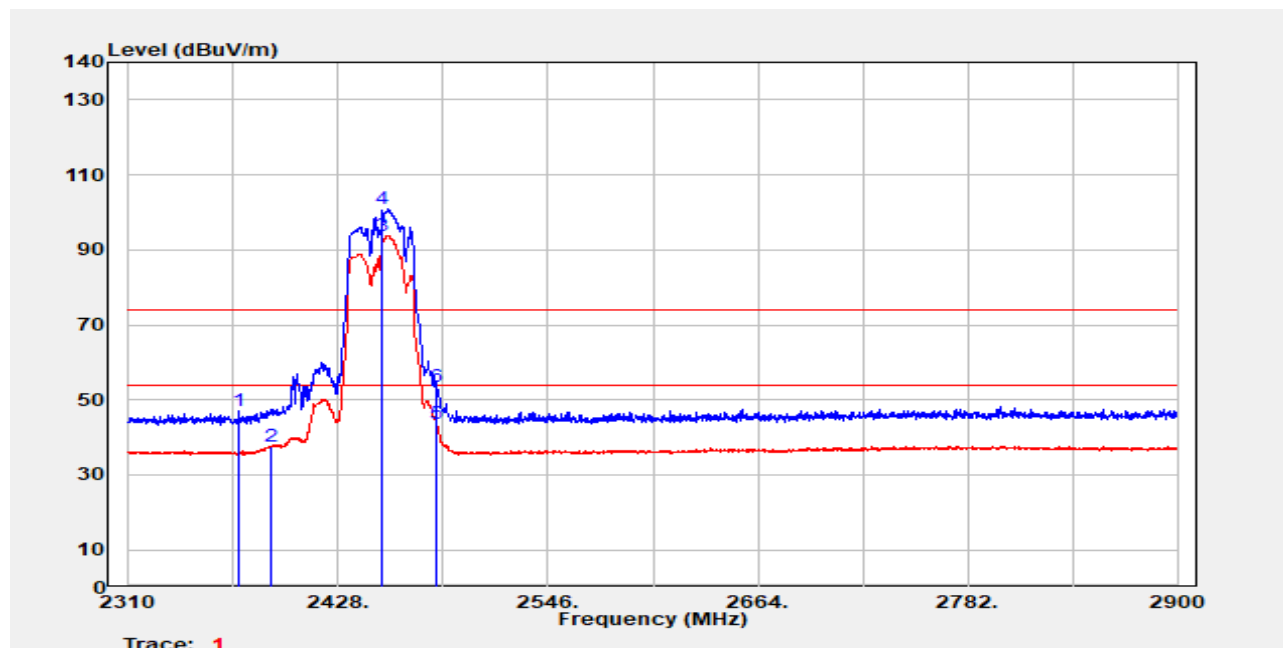
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n40  
 Test Frequency :2452 MHz  
 Test Mode :Bandedge  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-20  
 Temp./Humi. :22.1°C/57%  
 Antenna Pol. :Horizontal  
 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
2371.97	Peak	50.46	-3.25	47.21	74.00	-26.79
2389.87	Average	40.70	-3.12	37.58	54.00	-16.42
2452.00	Average	97.20	-3.45	93.75	-	-
2452.00	Peak	104.39	-3.45	100.94	-	-
2483.50	Average	46.93	-3.37	43.56	54.00	-10.44
2483.50	Peak	56.71	-3.37	53.34	74.00	-20.66

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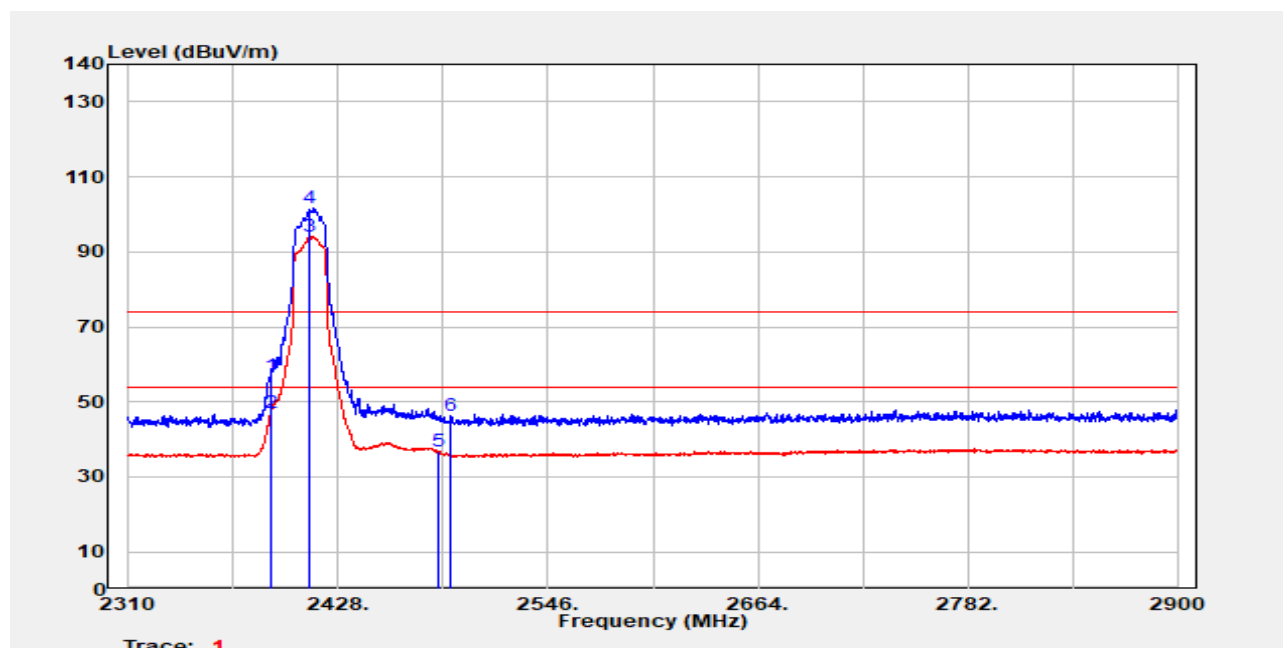
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## Model: C505

Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :NB Mode

Test Site :SAC G Chamber  
 Test Date :2025-02-22  
 Temp./Humi. :22.1°C/57%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



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
2389.68	Peak	60.06	-3.12	56.94	74.00	-17.06
2389.87	Average	50.18	-3.12	47.06	54.00	-6.94
2412.00	Average	97.52	-3.30	94.22	-	-
2412.00	Peak	104.99	-3.30	101.69	-	-
2483.91	Average	40.14	-3.37	36.77	54.00	-17.23
2490.99	Peak	49.75	-3.38	46.37	74.00	-27.63

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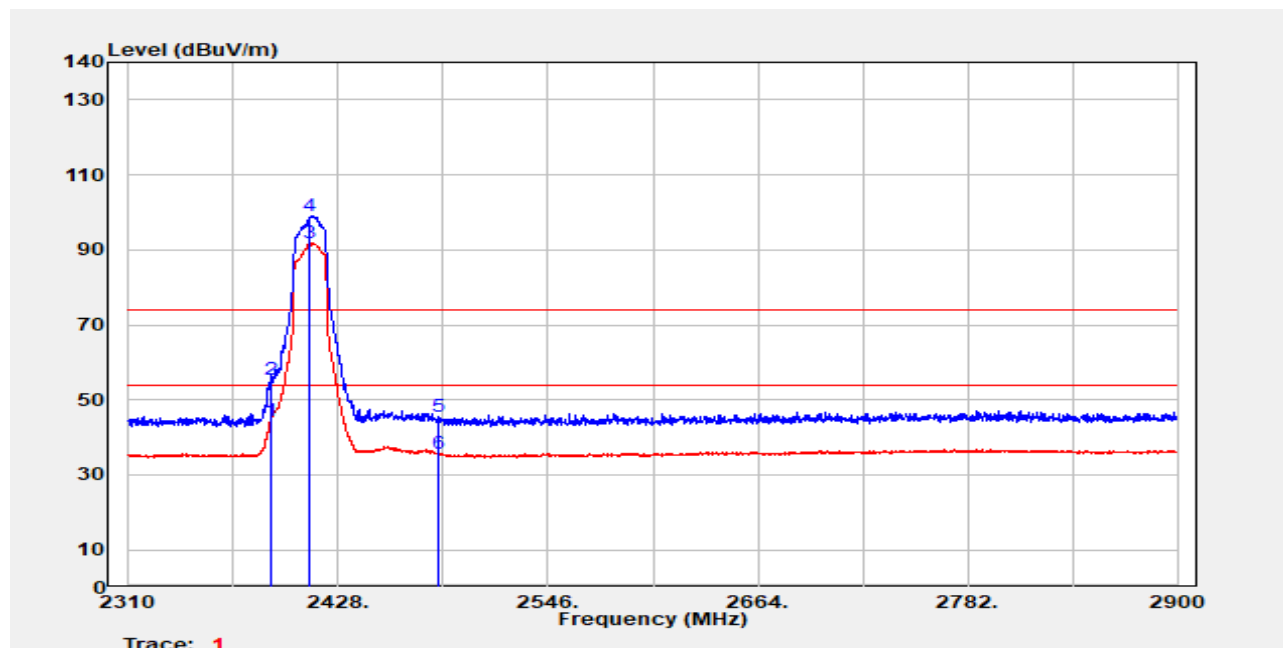
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Bandedge  
 EUT Pol :NB Mode

Test Site :SAC G Chamber  
 Test Date :2025-02-22  
 Temp./Humi. :22.1°C/57%  
 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	Average	47.64	-3.12	44.52	54.00	-9.48
2389.87	Peak	58.36	-3.12	55.24	74.00	-18.76
2412.00	Average	95.23	-3.30	91.93	-	-
2412.00	Peak	102.40	-3.30	99.10	-	-
2484.31	Peak	48.89	-3.37	45.52	74.00	-28.48
2484.70	Average	39.15	-3.37	35.78	54.00	-18.22

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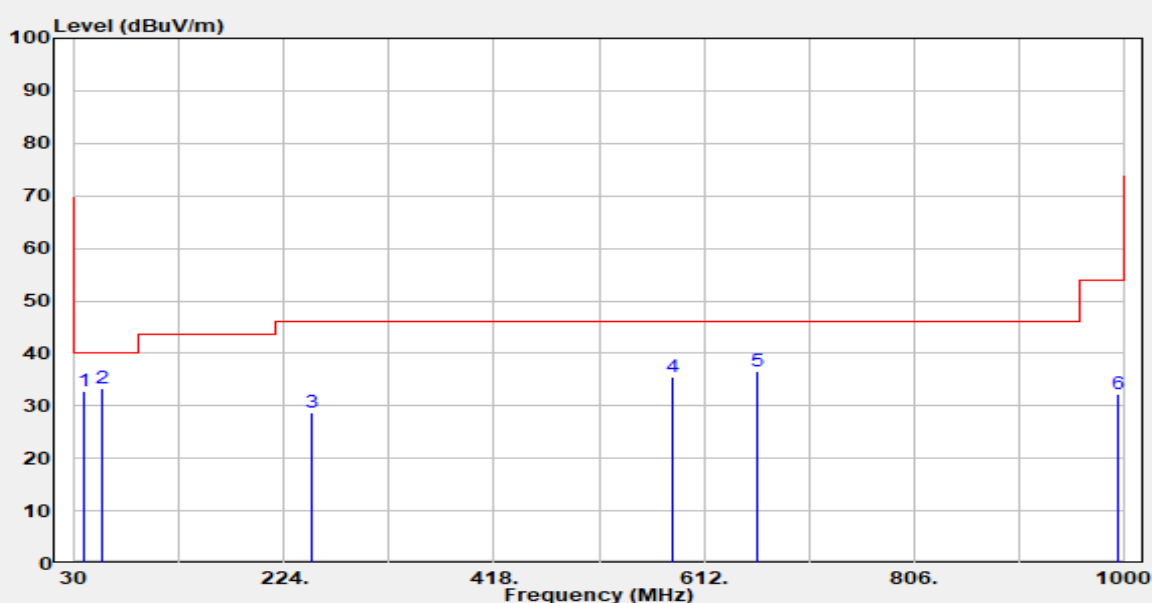


## 8.6.2 Spurious Emission:

Model: C305

Report Number :TERF2501000051E2  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-24  
 Temp./Humi. :21.8°C/54%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



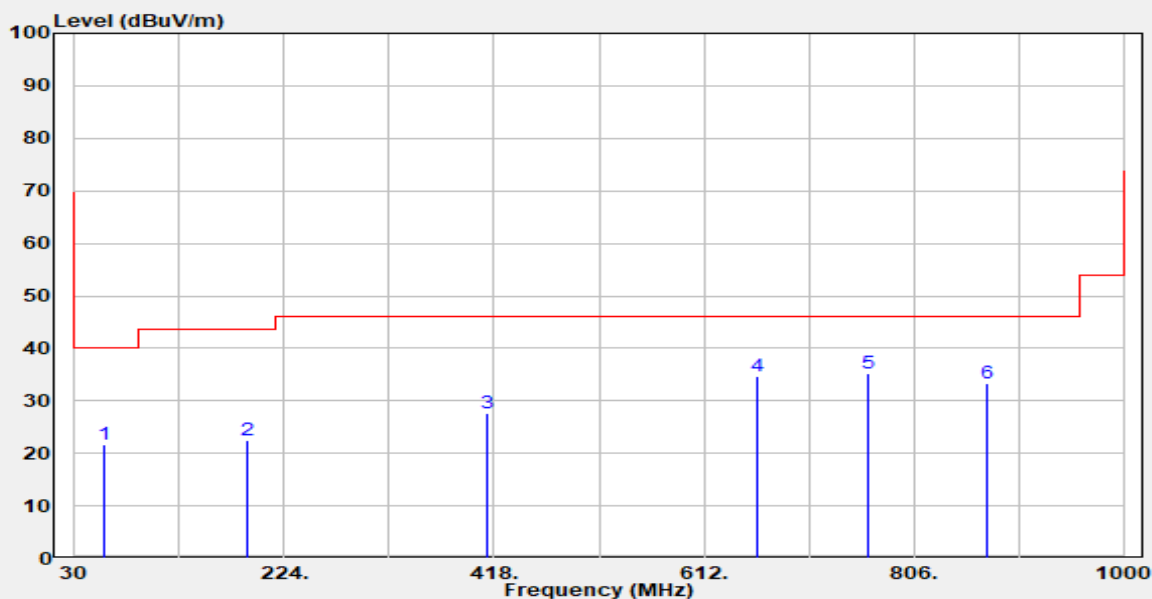
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
37.76	Peak	46.76	-13.87	32.89	40.00	-7.11
56.19	Peak	46.10	-12.68	33.42	40.00	-6.58
250.19	Peak	42.73	-13.88	28.85	46.00	-17.15
583.87	Peak	41.02	-5.45	35.57	46.00	-10.43
661.47	Peak	40.44	-3.86	36.58	46.00	-9.42
995.15	Peak	31.20	1.05	32.25	54.00	-21.75

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Report Number :TERF2501000051E2  
 Operation Mode :802.11b  
 Test Frequency :2437 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-23  
 Temp./Humi. :21.8°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



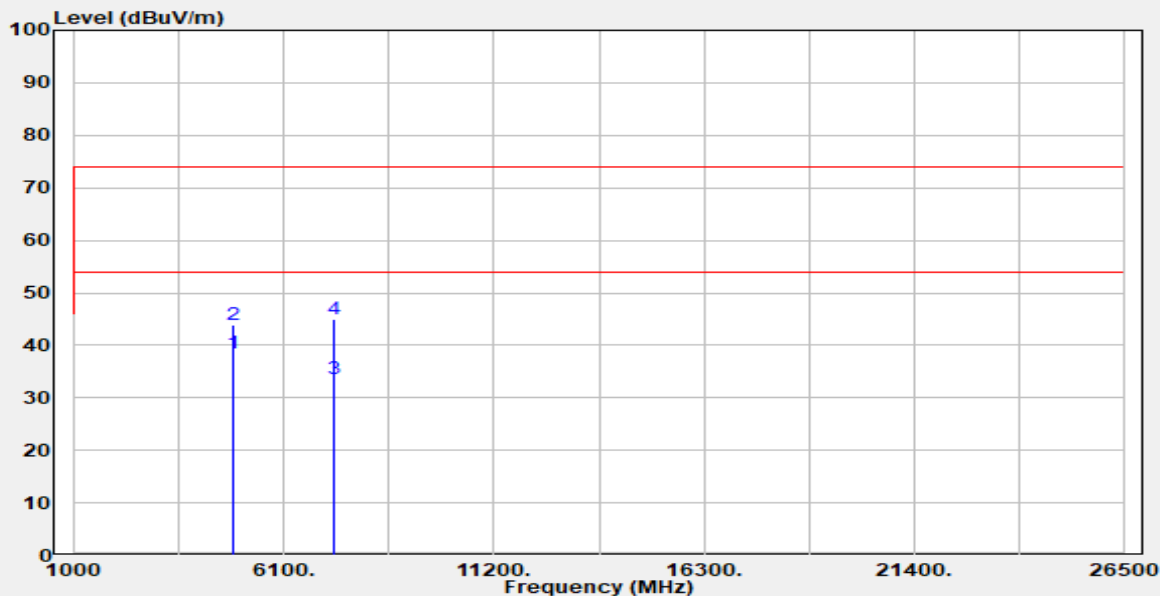
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
58.13	Peak	34.64	-12.98	21.66	40.00	-18.34
189.08	Peak	37.81	-15.32	22.49	43.50	-21.01
411.21	Peak	36.81	-9.30	27.51	46.00	-18.49
661.47	Peak	38.59	-3.86	34.73	46.00	-11.27
763.32	Peak	37.10	-1.87	35.23	46.00	-10.77
873.90	Peak	34.09	-0.69	33.40	46.00	-12.60

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Report Number :TERF2501000051E2  
Operation Mode :802.11b  
Test Frequency :2437 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC G Chamber  
Test Date :2025-02-21  
Temp./Humi. :21.8°C/54%  
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
4874.00	Average	34.69	3.79	38.48	54.00	-15.52
4874.00	Peak	40.07	3.79	43.86	74.00	-30.14
7311.00	Average	23.92	9.68	33.60	54.00	-20.40
7311.00	Peak	35.19	9.68	44.87	74.00	-29.13

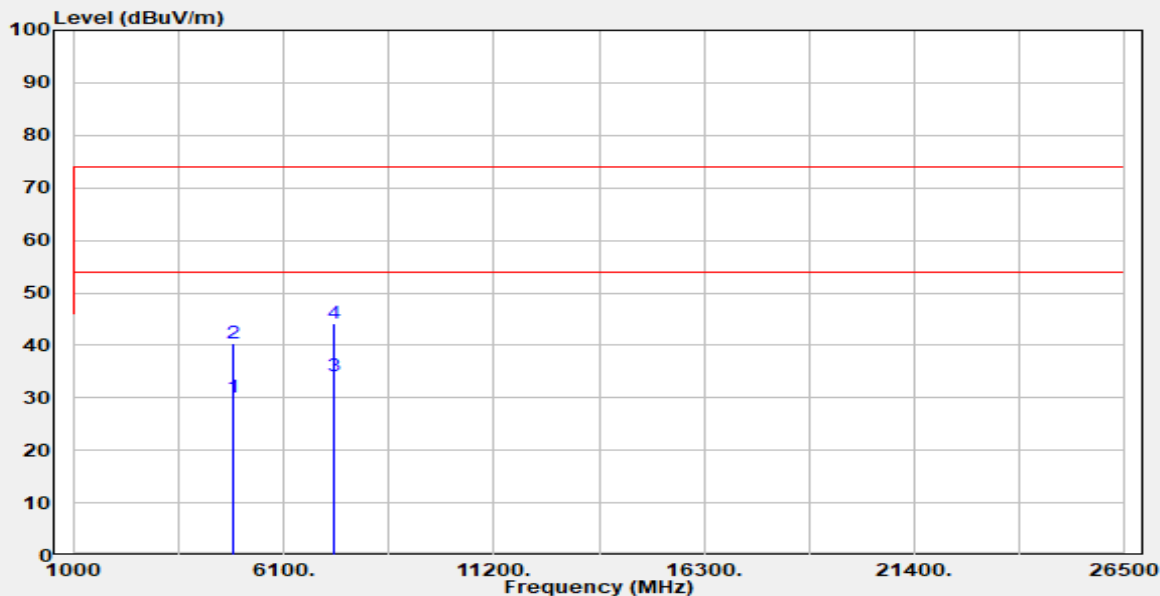
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Report Number :TERF2501000051E2  
Operation Mode :802.11b  
Test Frequency :2437 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC G Chamber  
Test Date :2025-02-21  
Temp./Humi. :21.8°C/54%  
Antenna Pol. :Horizontal  
Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	26.25	3.79	30.04	54.00	-23.96
4874.00	Peak	36.47	3.79	40.26	74.00	-33.74
7311.00	Average	24.54	9.68	34.22	54.00	-19.78
7311.00	Peak	34.57	9.68	44.25	74.00	-29.75

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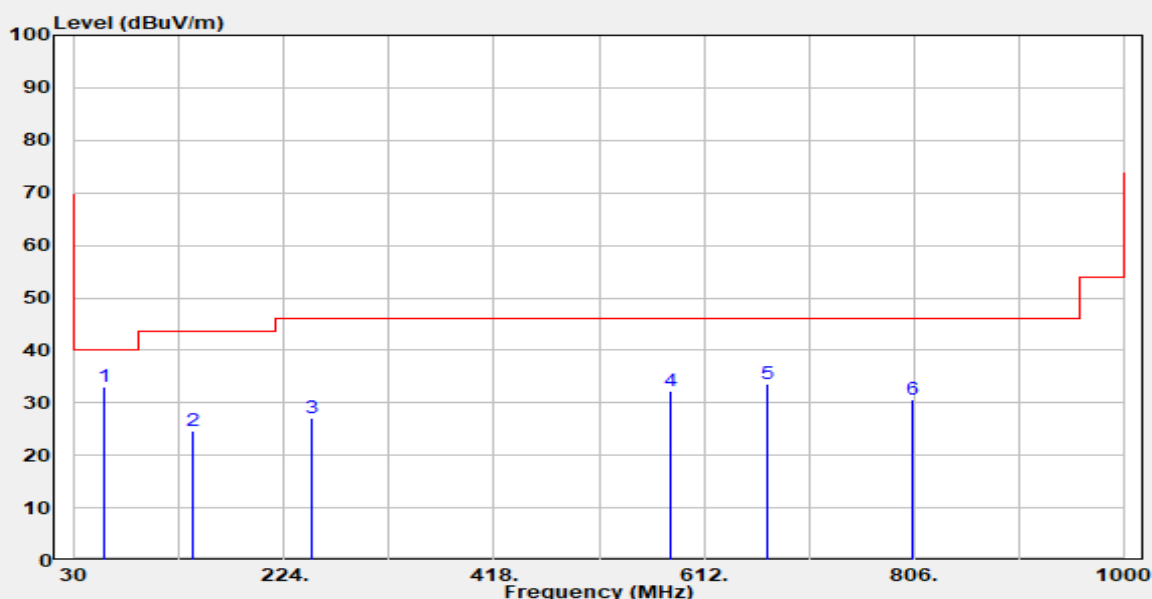
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## Model: C505

Report Number :TERF2501000051E2  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC G Chamber  
Test Date :2025-02-23  
Temp./Humi. :21.8°C/54%  
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
57.16	Peak	45.65	-12.72	32.93	40.00	-7.07
138.64	Peak	38.38	-13.64	24.74	43.50	-18.76
250.19	Peak	40.95	-13.88	27.07	46.00	-18.93
581.93	Peak	37.85	-5.52	32.33	46.00	-13.67
671.17	Peak	37.36	-3.76	33.60	46.00	-12.40
805.03	Peak	32.11	-1.49	30.62	46.00	-15.38

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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

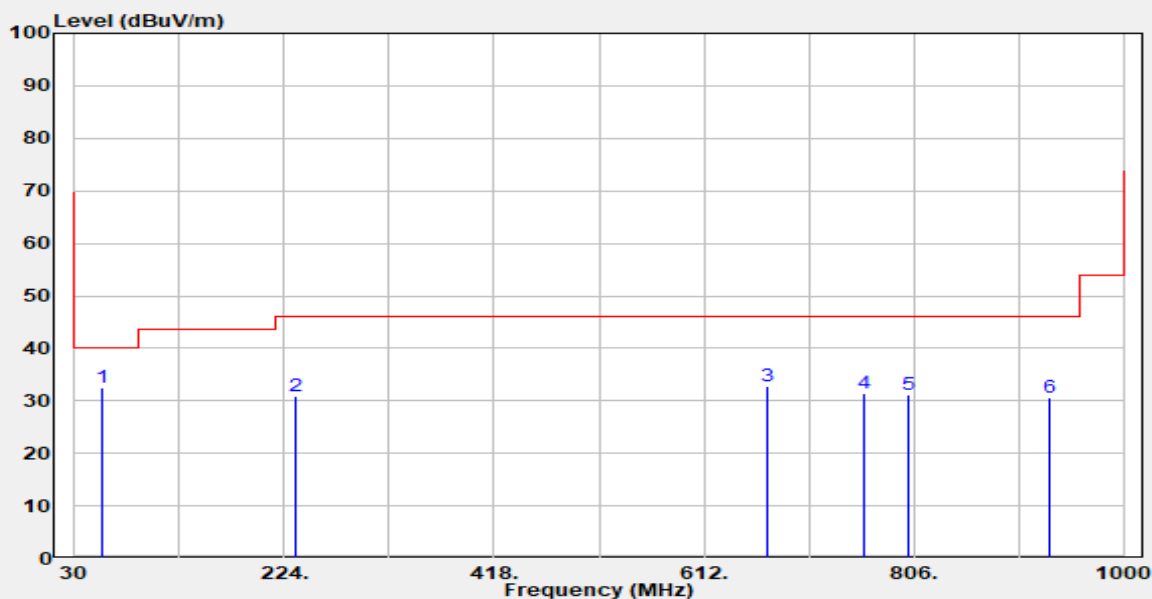
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-23  
 Temp./Humi. :21.8°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



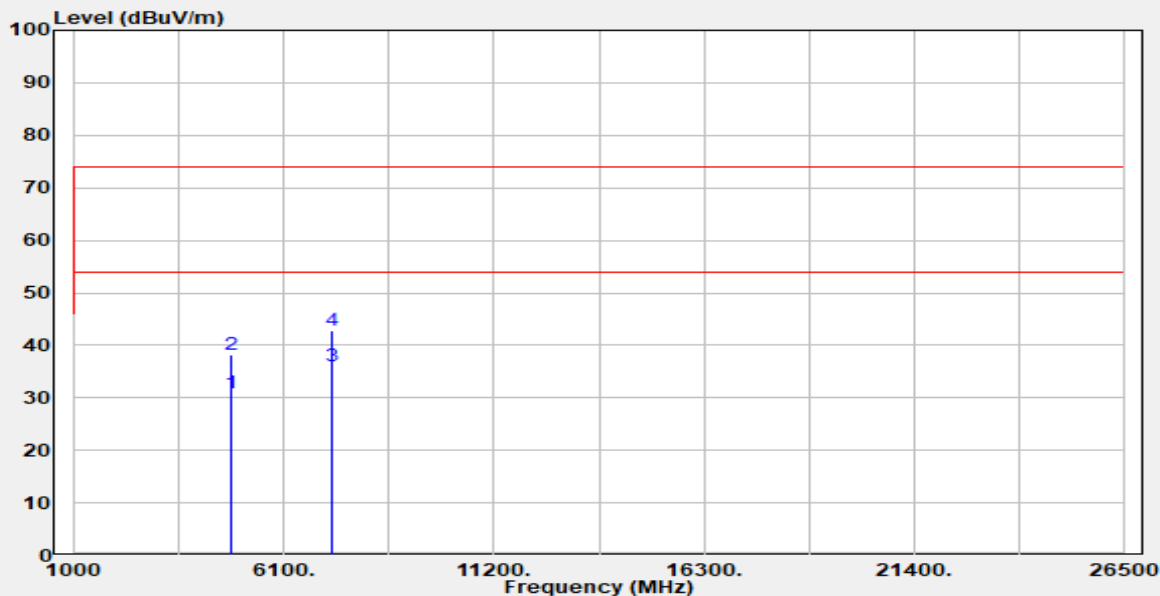
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
56.19	Peak	45.26	-12.68	32.58	40.00	-7.42
233.70	Peak	45.88	-14.93	30.95	46.00	-15.05
671.17	Peak	36.57	-3.76	32.81	46.00	-13.19
760.41	Peak	33.28	-1.88	31.40	46.00	-14.60
801.15	Peak	32.63	-1.53	31.10	46.00	-14.90
932.10	Peak	30.21	0.54	30.75	46.00	-15.25

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Report Number :TERF2501000051E2  
Operation Mode :802.11n20  
Test Frequency :2412 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC G Chamber  
Test Date :2025-02-22  
Temp./Humi. :21.8°C/54%  
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
4824.00	Average	27.42	3.55	30.97	54.00	-23.03
4824.00	Peak	34.73	3.55	38.28	74.00	-35.72
7236.00	Average	26.54	9.39	35.93	54.00	-18.07
7236.00	Peak	33.46	9.39	42.85	74.00	-31.15

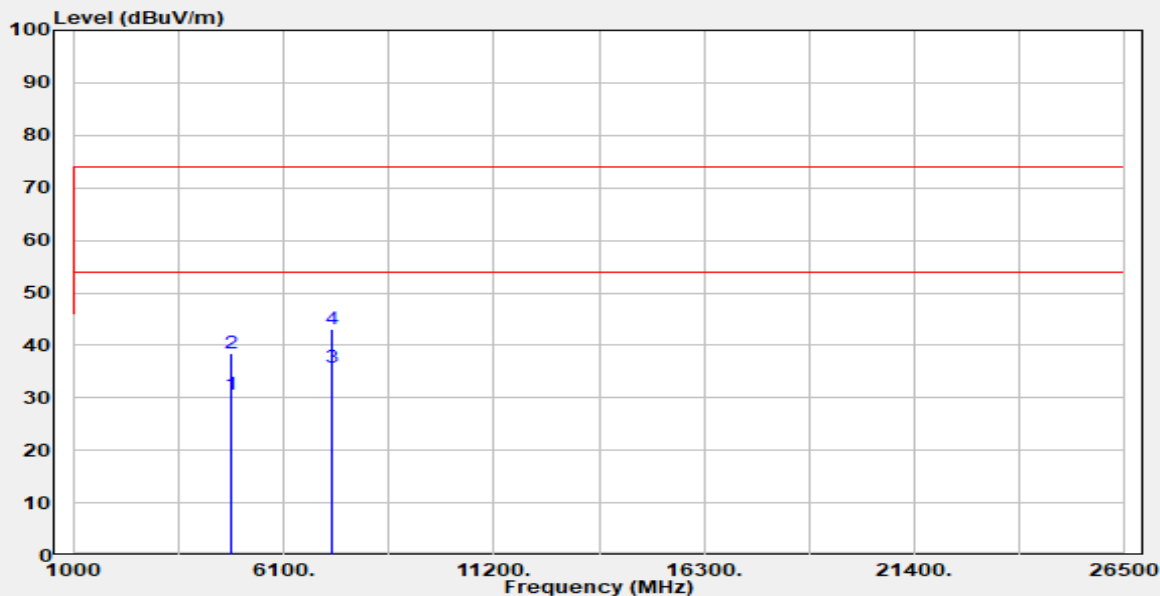
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Report Number :TERF2501000051E2  
 Operation Mode :802.11n20  
 Test Frequency :2412 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC G Chamber  
 Test Date :2025-02-22  
 Temp./Humi. :21.8°C/54%  
 Antenna Pol. :Horizontal  
 Engineer :Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4824.00	Average	27.14	3.55	30.69	54.00	-23.31
4824.00	Peak	34.90	3.55	38.45	74.00	-35.55
7236.00	Average	26.37	9.39	35.76	54.00	-18.24
7236.00	Peak	33.82	9.39	43.21	74.00	-30.79

~ End of Report ~

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