

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, SC 29707, USA

Manufacturer: Honeywell International Inc.
9680 Old Bailes Rd, Fort Mill, SC 29707, USA

Product Name: Vehicle Mount Computer

Brand Name: Honeywell

Model No.: VM1A-L0N

Model Difference: N/A

Report Number: TERF2212002705ER

FCC ID HD5-VM1AL0N

IC: 1693B-VM1AL0N

Date of EUT Received: December 14, 2022

Date of Test: December 23, 2022 ~ March 06, 2023

Issue Date: March 30, 2023

JJ Chen

Approved By _____

JJ Chen

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
TERF2212002705ER	00	Original.	March 15, 2023	Tiffany Kao	
TERF2212002705ER	01	Updated antenna model no.	March 30, 2023	Tiffany Kao	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Vehicle Mount Computer
Brand Name:	Honeywell
Model No.:	VM1A-L0N
Model Difference:	N/A
Hardware Version:	VM1A-REF MAIN BOARD Rev:2.2
Firmware Version:	85.00.00-1171
EUT Series No.:	2231461110
Power Supply:	15V
Test Software (Name/Version)	FTM Tool /1.8

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	25.23	22.71	DSSS
802.11g	2412~2462	11	21.70	17.06	OFDM
802.11n20	2412~2462	11	22.74	17.88	OFDM
802.11n40	2422~2452	7	21.78	16.00	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		64QAM, 16QAM, QPSK, BPSK for OFDM			
Data Rate:		802.11 b: 1/2/5.5/11 Mbps			
		802.11 g: 6/9/12/18/24/36/48/54 Mbps			
		802.11 n_20MHz: up to 144.4Mbps			
		802.11 n_40MHz: up to 300Mbps			

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WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)	Modulation Technology
			Peak	Avg.		
802.11b	2412~2462	11	25.23	22.71	27.82	DSSS
802.11g	2412~2462	11	21.70	17.06	20.35	OFDM
802.11n20	2412~2462	11	22.74	17.88	18.31	OFDM
802.11n40	2422~2452	7	21.78	16.00	18.13	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS				
		64QAM, 16QAM, QPSK, BPSK for OFDM				
Data Rate:		802.11 b: 1/2/5.5/11 Mbps				
		802.11 g: 6/9/12/18/24/36/48/54 Mbps				
		802.11 n_20MHz: up to 144.4Mbps				
		802.11 n_40MHz: up to 300Mbps				

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Model No.	Freq. (MHz)	Transmitter Chain	Peak Antenna Gain (dBi)	MIMO Antenna Gain (dBi)
External Di-pole antenna	LARSEN	R380500314	2.4GHz	Ch 0 & Ch 1	1.6	4.61
	LAIRD	WTS 2450	2.4GHz	Ch 0 & Ch 1	2.1	5.11
Internal Printed Antenna	Honeywell	VM1A_Int_Ant	2.4GHz	Ch0	1.1	4.98
			2.4GHz	Ch1	2.7	

Note:

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

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 RSS-247 issue 2 Feb. 2017
 RSS-Gen, issue 5 April, 2018
 ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

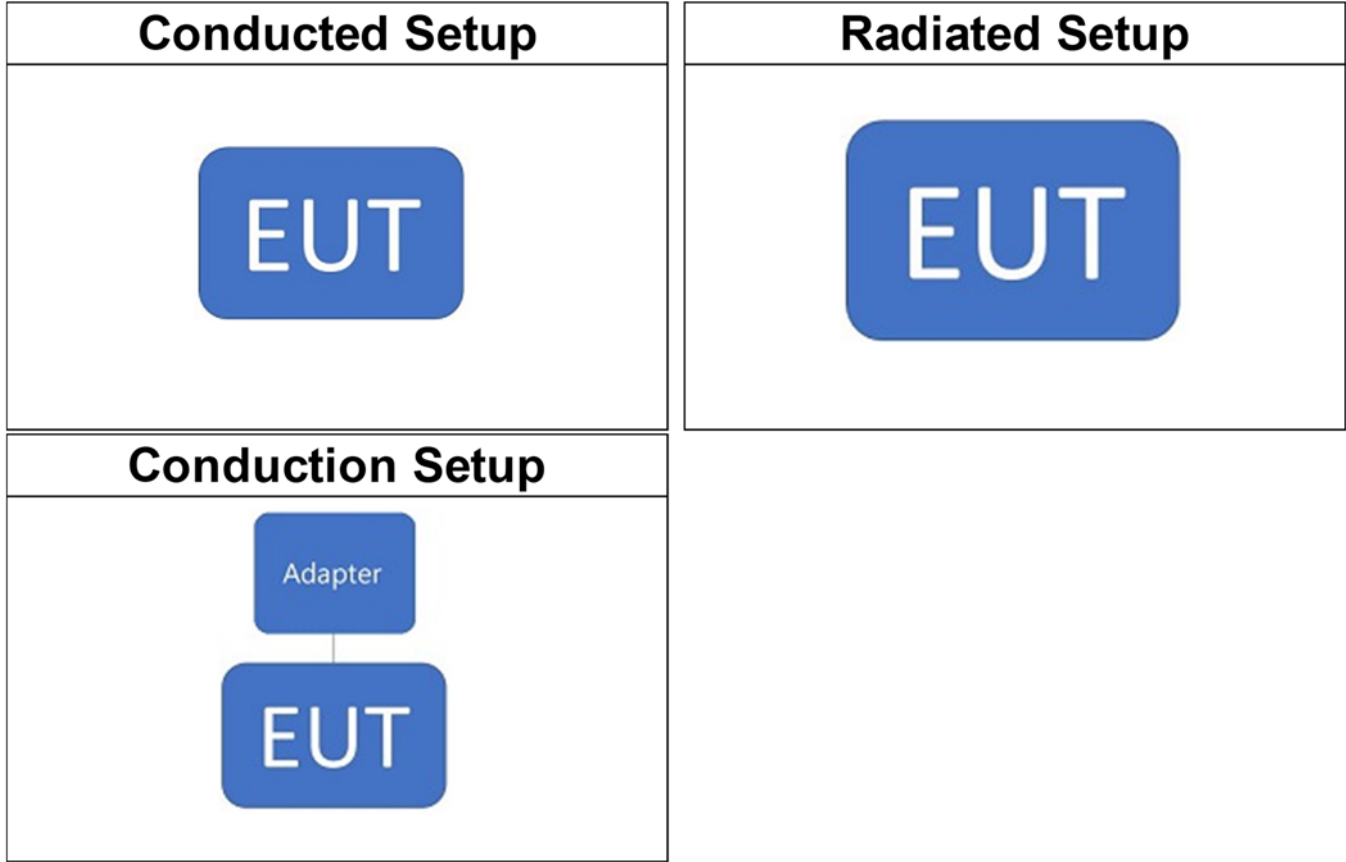
2.4.2 For all conducted test items:

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

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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	GlobTek, Inc	GT-46600-6015-T3	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

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	10	2457
9	2452	11	2462
10	2457		
11	2462		

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4.2 The Worst Test Modes and Channel Details

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

The gevin UE is pre-scanned among below modes.

Modulation		Transmission Chain							Single Transmission Spatial	Multi Transmission Spatial			
v	802.11 b	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 g	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
	802.11 ax		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					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,6,10,11	DSSS	1	2TX
802.11g	1 to 11	1,2,6,10,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,2,6,10,11	OFDM	MCS0	2TX
802.11n (HT40)	3 to 9	3,4,5,6,7,8,9	OFDM	MCS0	2TX

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

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

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	05/19/2022	05/18/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	1242004	10/26/2022	10/25/2023
Power Sensor	Anritsu	MA2411B	1207365	10/26/2022	10/25/2023
Power Sensor	Anritsu	MA2411B	1207368	10/26/2022	10/25/2023
Attenuator	Mini-Circuit	BW-S10W2+	2	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

6.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	09/27/2022	09/26/2023
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/27/2022	12/26/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Site Cal	SGS	SAC 1	N/A	01/01/2023	12/31/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	HP	8449B	3008A01973	12/13/2022	12/12/2023
Pre-Amplifier	HP	8447D	2944A09469	12/13/2022	12/12/2023
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/13/2022	12/12/2023
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R

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

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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

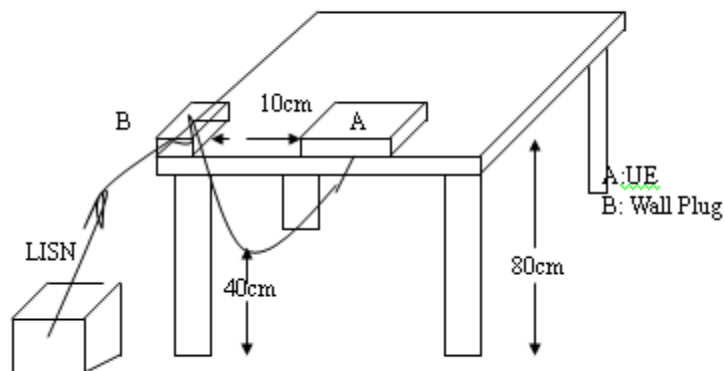
Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

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

7.3 Test Setup



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7.4 Measurement Procedure

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

7.5 Measurement Result

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

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

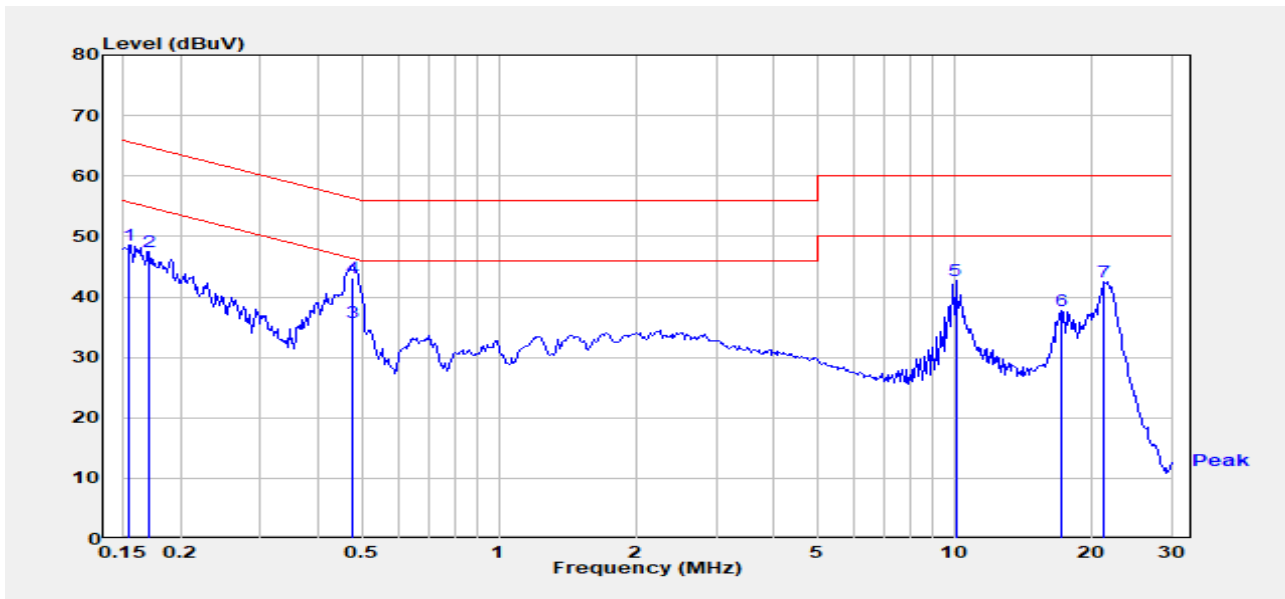
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Cradle (S/N: VM1DG223800172)

Report Number	:TERF2212002705ER	Test Site	:Conduction 1
Test Mode	:2.4G	Test Date	:2023-03-03
Power	:120V/60Hz	Temp./Humi.	:23.8/52
Probe	:L	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.155	Peak	48.51	0.05	48.56	65.74	-17.18
0.171	Peak	47.48	0.05	47.53	64.92	-17.38
0.478	Average	35.76	0.05	35.81	46.37	-10.56
0.478	QP	43.12	0.05	43.17	56.37	-13.20
10.083	Peak	42.36	0.34	42.70	60.00	-17.30
17.127	Peak	37.15	0.57	37.71	60.00	-22.29
21.399	Peak	41.89	0.66	42.55	60.00	-17.45

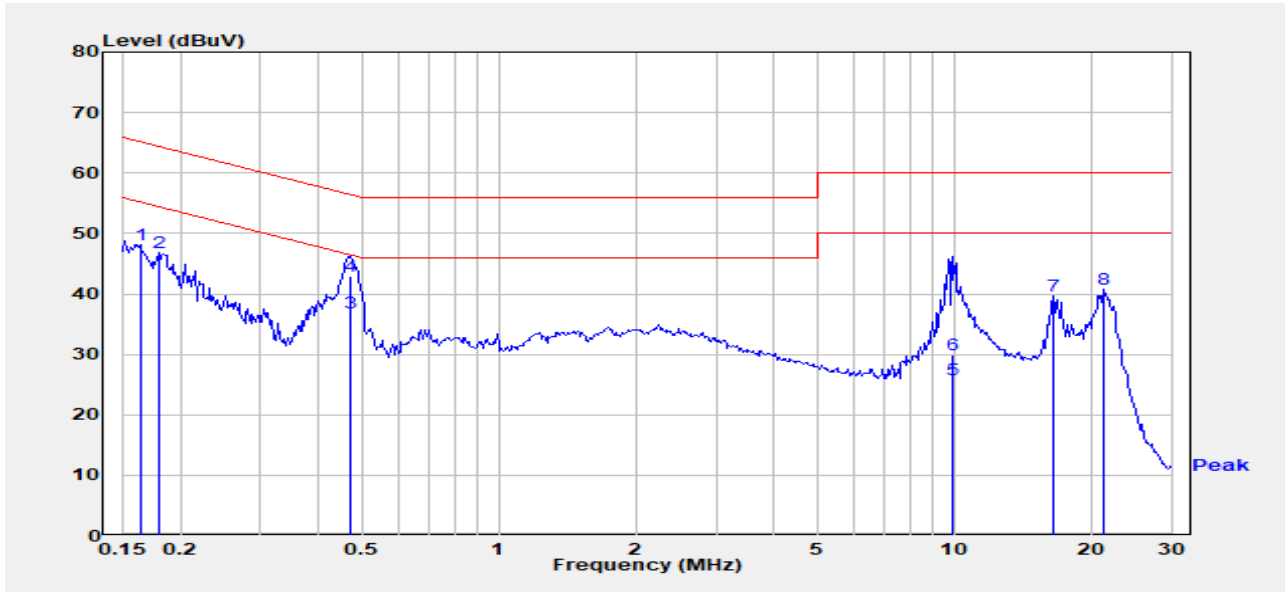
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Report Number :TERF2212002705ER
 Test Mode :2.4G
 Power :120V/60Hz
 Probe :N

Test Site :Conduction 1
 Test Date :2023-03-03
 Temp./Humi. :23.8/52
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.163	Peak	48.09	0.05	48.14	65.30	-17.15
0.179	Peak	46.80	0.05	46.85	64.53	-17.68
0.471	Average	36.79	0.05	36.84	46.50	-9.66
0.471	QP	42.94	0.05	42.99	56.50	-13.51
9.929	Average	25.38	0.33	25.71	50.00	-24.29
9.929	QP	29.63	0.33	29.96	60.00	-30.04
16.482	Peak	39.13	0.47	39.61	60.00	-20.39
21.235	Peak	40.18	0.54	40.73	60.00	-19.27

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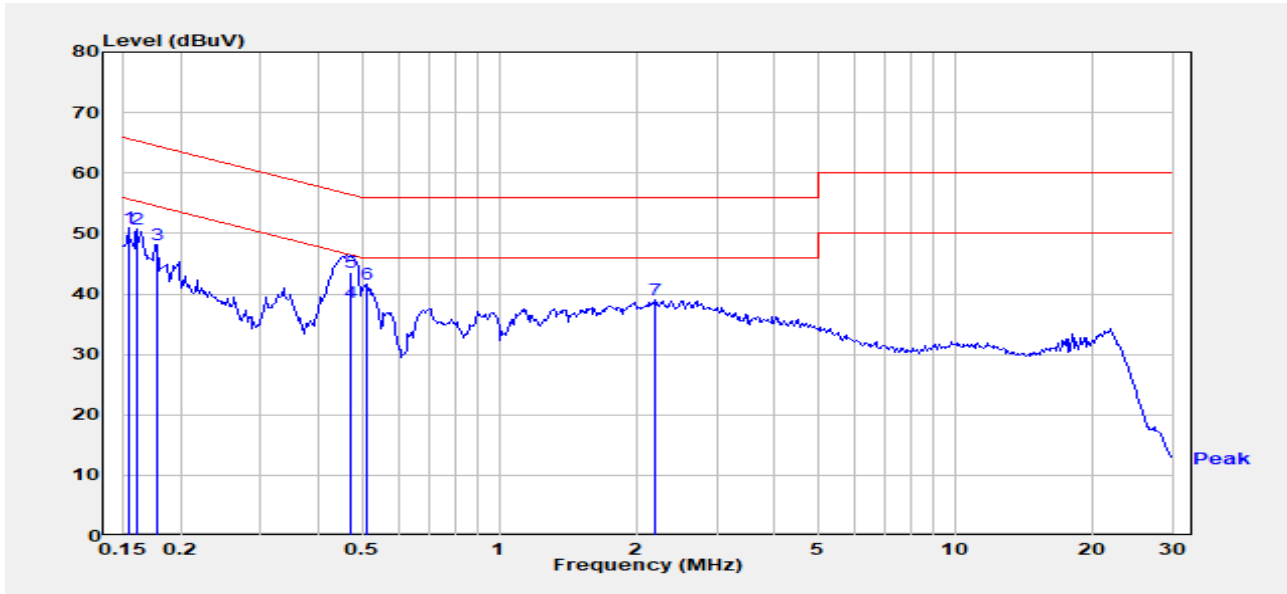
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Cradle (S/N: VM3AC2235G00006)

Report Number :TERF2212002705ER
 Test Mode :2.4G
 Power :120V/60Hz
 Probe :L

Test Site :Conduction 1
 Test Date :2023-03-03
 Temp./Humi. :23.8/52
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.153	Peak	50.87	0.05	50.92	65.81	-14.89
0.161	Peak	50.72	0.05	50.77	65.43	-14.66
0.178	Peak	48.06	0.05	48.11	64.60	-16.48
0.471	Average	38.59	0.05	38.64	46.50	-7.86
0.471	QP	43.53	0.05	43.58	56.50	-12.92
0.512	Peak	41.53	0.05	41.58	56.00	-14.42
2.204	Peak	38.82	0.09	38.92	56.00	-17.08

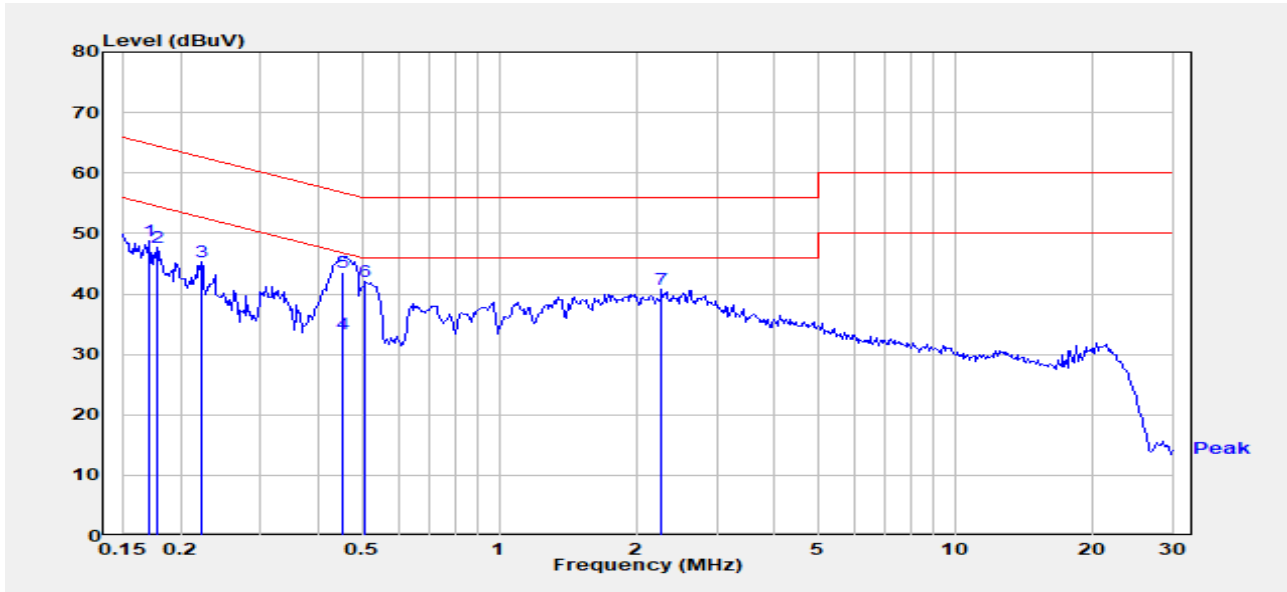
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Report Number :TERF2212002705ER
 Test Mode :2.4G
 Power :120V/60Hz
 Probe :N

Test Site :Conduction 1
 Test Date :2023-03-03
 Temp./Humi. :23.8/52
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.171	Peak	48.62	0.05	48.67	64.92	-16.24
0.178	Peak	47.65	0.05	47.70	64.60	-16.90
0.222	Peak	45.19	0.05	45.24	62.75	-17.51
0.453	Average	33.38	0.05	33.43	46.82	-13.38
0.453	QP	43.46	0.05	43.51	56.82	-13.30
0.509	Peak	41.95	0.05	42.00	56.00	-14.00
2.273	Peak	40.70	0.10	40.81	56.00	-15.19

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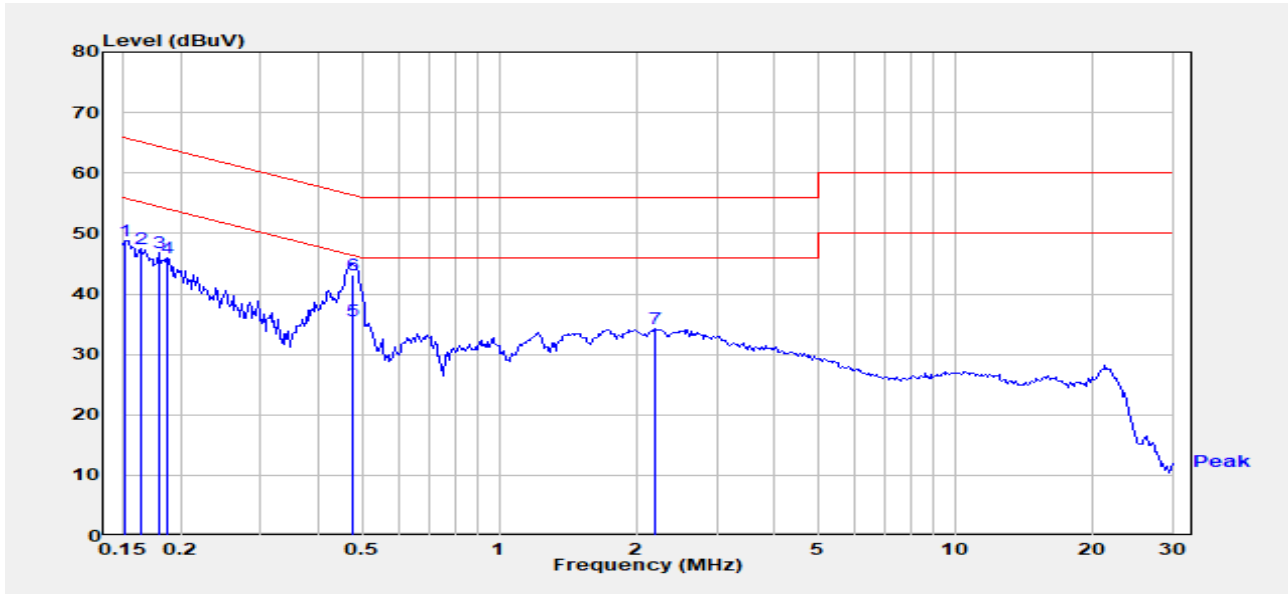
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Cradle (S/N: VW3AC2304G00015)

Report Number :TERF2212002705ER
 Test Mode :2.4G
 Power :120V/60Hz
 Probe :L

Test Site :Conduction 1
 Test Date :2023-03-03
 Temp./Humi. :23.8/52
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.151	Peak	48.75	0.05	48.80	65.94	-17.14
0.163	Peak	47.44	0.05	47.49	65.30	-17.81
0.179	Peak	46.76	0.05	46.81	64.53	-17.72
0.187	Peak	45.82	0.05	45.87	64.15	-18.28
0.478	Average	35.47	0.05	35.52	46.37	-10.85
0.478	QP	43.11	0.05	43.16	56.37	-13.21
2.204	Peak	34.05	0.09	34.15	56.00	-21.85

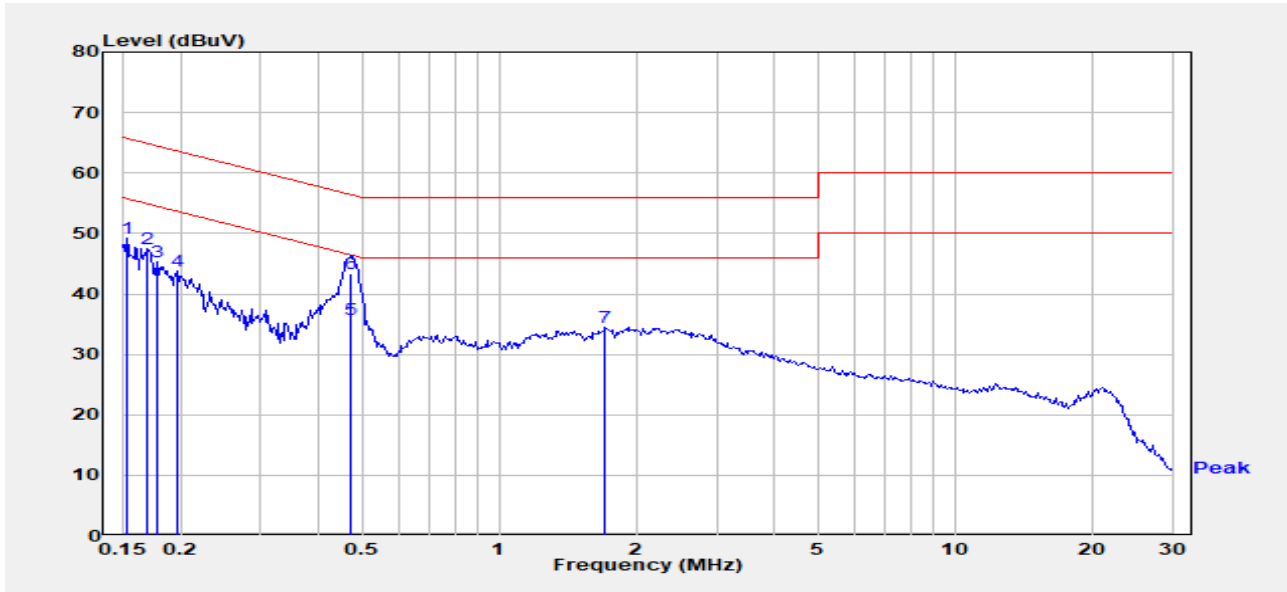
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 Probe :N

Test Site :Conduction 1
 Test Date :2023-03-03
 Temp./Humi. :23.8/52
 Engineer :GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Peak	49.08	0.05	49.13	65.87	-16.75
0.170	Peak	47.37	0.05	47.42	64.98	-17.56
0.178	Peak	45.27	0.05	45.32	64.60	-19.27
0.196	Peak	43.78	0.05	43.83	63.77	-19.93
0.475	Average	35.72	0.05	35.77	46.43	-10.66
0.475	QP	43.31	0.05	43.36	56.43	-13.07
1.711	Peak	34.41	0.08	34.49	56.00	-21.51

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.2 Duty Cycle

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

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

8.3 Output Power

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

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

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

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

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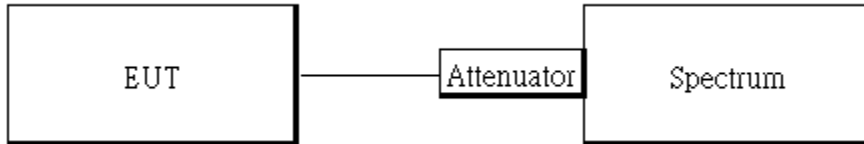
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G_k is the gain in dBi of the kth antenna.

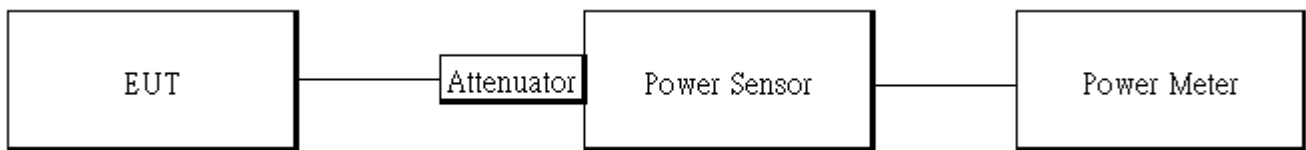
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

8.4 Test Setup

8.4.1 Duty Cycle



8.4.2 Output Power:



8.5 Measurement Procedure

8.5.1 Duty Cycle:

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

8.5.2 Output Power

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

Power Meter:

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

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

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

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8.6 Measurement Result

8.6.1 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) = 10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.33	0.03	0.08	0.01
802.11g	95.78	0.19	0.48	1.00
802.11n_20	95.39	0.20	0.52	1.00
802.11n_40	92.04	0.36	1.05	2.00

8.6.2 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2422MHz



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8.6.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	20	21.76	30.00	PASS
6	2437	1	20	21.73	30.00	PASS
11	2462	1	20	21.89	30.00	PASS

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	20	19.21	30.00	PASS
6	2437	1	20	19.34	30.00	PASS
11	2462	1	20	19.29	30.00	PASS

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	20	22.32	30.00	PASS
6	2437	1	20	22.24	30.00	PASS
11	2462	1	19	22.38	30.00	PASS

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	20	19.95	30.00	PASS
6	2437	1	20	19.59	30.00	PASS
11	2462	1	19	19.92	30.00	PASS

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	1	20	21.79	22.61	25.23	30.00	PASS
6	2437	1	20	21.61	22.45	25.06	30.00	PASS
11	2462	1	19	21.02	21.79	24.43	30.00	PASS

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	1	20	19.31	20.06	22.71	30.00	PASS
6	2437	1	20	19.22	19.84	22.55	30.00	PASS
11	2462	1	19	18.41	19.10	21.78	30.00	PASS

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802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14	17.49	30.00	PASS
6	2437	6	16	19.28	30.00	PASS
11	2462	6	13	16.61	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	14	12.96	30.00	PASS
6	2437	6	16	14.80	30.00	PASS
11	2462	6	13	12.11	30.00	PASS

802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	13	17.03	30.00	PASS
6	2437	6	15	19.05	30.00	PASS
11	2462	6	13	17.23	30.00	PASS

802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	13	12.55	30.00	PASS
6	2437	6	15	14.44	30.00	PASS
11	2462	6	13	12.57	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	6	13	16.64	17.05	19.86	30.00	PASS
6	2437	6	15	18.32	19.03	21.70	30.00	PASS
11	2462	6	13	16.53	17.22	19.90	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	6	13	12.05	12.40	15.24	30.00	PASS
6	2437	6	15	13.77	14.31	17.06	30.00	PASS
11	2462	6	13	12.02	12.43	15.24	30.00	PASS

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802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12	15.77	30.00	PASS
6	2437	MCS0	17	20.08	30.00	PASS
11	2462	MCS0	14	17.45	30.00	PASS

802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	12	11.06	30.00	PASS
6	2437	MCS0	17	15.63	30.00	PASS
11	2462	MCS0	14	12.84	30.00	PASS

802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11	15.17	30.00	PASS
6	2437	MCS0	16	20.09	30.00	PASS
11	2462	MCS0	13	17.24	30.00	PASS

802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11	10.48	30.00	PASS
6	2437	MCS0	16	15.16	30.00	PASS
11	2462	MCS0	13	12.44	30.00	PASS

802.11n_HT_20M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	11	14.60	15.32	17.99	30.00	PASS
6	2437	MCS0	16	19.15	20.24	22.74	30.00	PASS
11	2462	MCS0	13	16.52	17.14	19.85	30.00	PASS

802.11n_HT_20M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	11	9.92	10.44	13.20	30.00	PASS
6	2437	MCS0	16	14.46	15.23	17.88	30.00	PASS
11	2462	MCS0	13	11.88	12.25	15.08	30.00	PASS

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802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11	17.05	30.00	PASS
6	2437	MCS0	12	17.93	30.00	PASS
9	2452	MCS0	14	19.53	30.00	PASS

802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	11	10.97	30.00	PASS
6	2437	MCS0	12	11.97	30.00	PASS
9	2452	MCS0	14	13.70	30.00	PASS

802.11n_HT_40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10	16.33	30.00	PASS
6	2437	MCS0	11	17.68	30.00	PASS
9	2452	MCS0	13	19.57	30.00	PASS

802.11n_HT_40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	10	10.29	30.00	PASS
6	2437	MCS0	11	11.35	30.00	PASS
9	2452	MCS0	13	12.99	30.00	PASS

802.11n_HT_40M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	10	15.94	16.22	19.09	30.00	PASS
6	2437	MCS0	11	16.97	17.42	20.21	30.00	PASS
9	2452	MCS0	13	18.66	18.87	21.78	30.00	PASS

802.11n_HT_40M_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	10	9.92	10.10	13.02	30.00	PASS
6	2437	MCS0	11	10.94	11.28	14.12	30.00	PASS
9	2452	MCS0	13	12.72	13.24	16.00	30.00	PASS

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802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	19.21	2.10	21.31	36	PASS
6	2437	1	19.34	2.10	21.44	36	PASS
11	2462	1	19.29	2.10	21.39	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	19.95	2.70	22.65	36	PASS
6	2437	1	19.59	2.70	22.29	36	PASS
11	2462	1	19.92	2.70	22.62	36	PASS

802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	1	19.31	20.06	22.71	5.11	27.82	36	PASS
6	2437	1	19.22	19.84	22.55	5.11	27.66	36	PASS
11	2462	1	18.41	19.10	21.78	5.11	26.89	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	12.96	2.10	15.06	36	PASS
6	2437	6	14.80	2.10	16.90	36	PASS
11	2462	6	12.11	2.10	14.21	36	PASS

802.11g Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	12.55	2.70	15.25	36	PASS
6	2437	6	14.44	2.70	17.14	36	PASS
11	2462	6	12.57	2.70	15.27	36	PASS

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802.11g_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	6	12.05	12.40	15.24	5.11	20.35	36	PASS
6	2437	6	13.77	14.31	17.06	5.11	22.17	36	PASS
11	2462	6	12.02	12.43	15.24	5.11	20.35	36	PASS

802.11n_HT_20M Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	11.06	2.10	13.16	36	PASS
6	2437	MCS0	15.63	2.10	17.73	36	PASS
11	2462	MCS0	12.84	2.10	14.94	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	10.48	2.70	13.18	36	PASS
6	2437	MCS0	15.16	2.70	17.86	36	PASS
11	2462	MCS0	12.44	2.70	15.14	36	PASS

802.11n_HT_20M_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	MCS0	9.92	10.44	13.20	5.11	18.31	36	PASS
6	2437	MCS0	14.46	15.23	17.88	5.11	22.99	36	PASS
11	2462	MCS0	11.88	12.25	15.08	5.11	20.19	36	PASS

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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	10.97	2.10	13.07	36	PASS
6	2437	MCS0	11.97	2.10	14.07	36	PASS
9	2452	MCS0	13.70	2.10	15.80	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	10.29	2.70	12.99	36	PASS
6	2437	MCS0	11.35	2.70	14.05	36	PASS
9	2452	MCS0	12.99	2.70	15.69	36	PASS

802.11n_HT_40M_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
3	2422	MCS0	9.92	10.10	13.02	5.11	18.13	36	PASS
6	2437	MCS0	10.94	11.28	14.12	5.11	19.23	36	PASS
9	2452	MCS0	12.72	13.24	16.00	5.11	21.11	36	PASS

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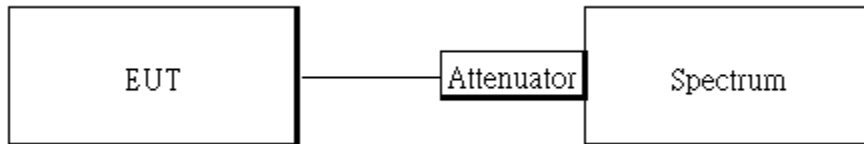
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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

9.3.1 FCC measurements

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

9.3.2 ISED measurements

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

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9.4 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8075.00	≥ 500	PASS
2437	8074.00	≥ 500	PASS
2462	7118.00	≥ 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8069.00	≥ 500	PASS
2437	8065.00	≥ 500	PASS
2462	8066.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340.00	≥ 500	PASS
2437	16340.00	≥ 500	PASS
2462	16110.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16420.00	≥ 500	PASS
2437	16420.00	≥ 500	PASS
2462	16410.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17320.00	≥ 500	PASS
2437	17560.00	≥ 500	PASS
2462	17210.00	≥ 500	PASS

802.11n_HT_20M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17630.00	≥ 500	PASS
2437	17640.00	≥ 500	PASS
2462	17370.00	≥ 500	PASS

802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35980.00	≥ 500	PASS
2437	35580.00	≥ 500	PASS
2452	35760.00	≥ 500	PASS

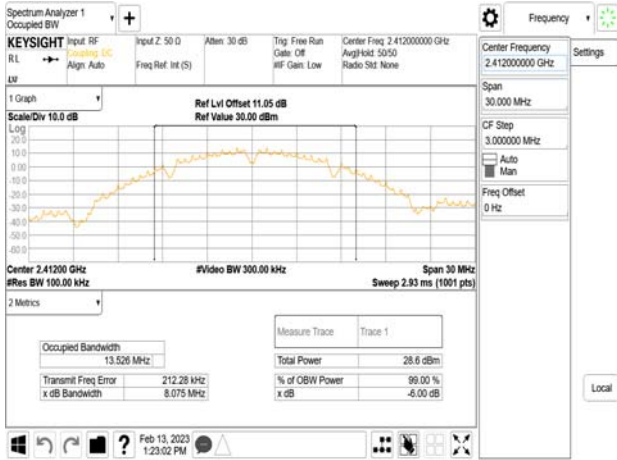
802.11n_HT_40M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36330.00	≥ 500	PASS
2437	36340.00	≥ 500	PASS
2452	35780.00	≥ 500	PASS

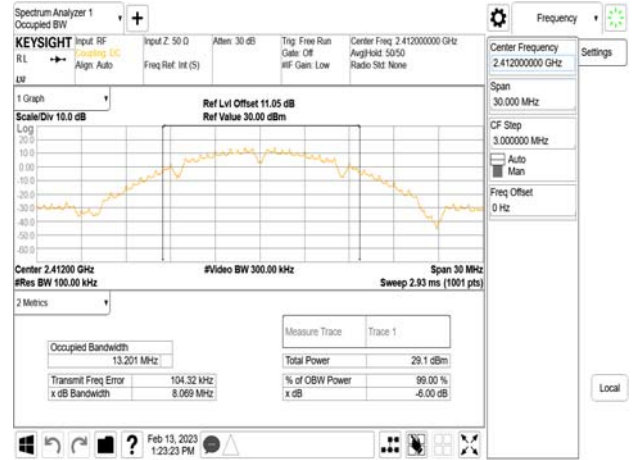
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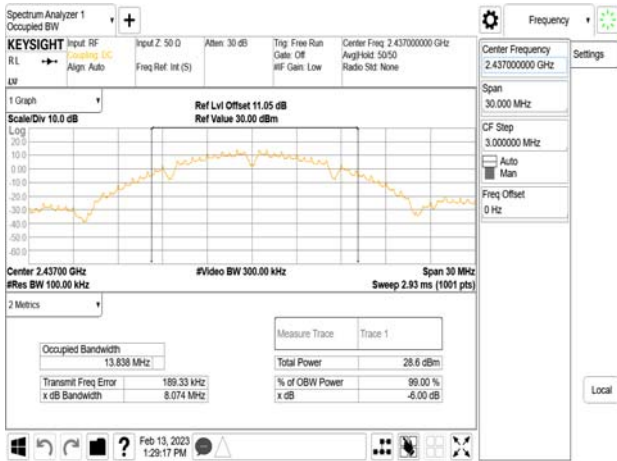
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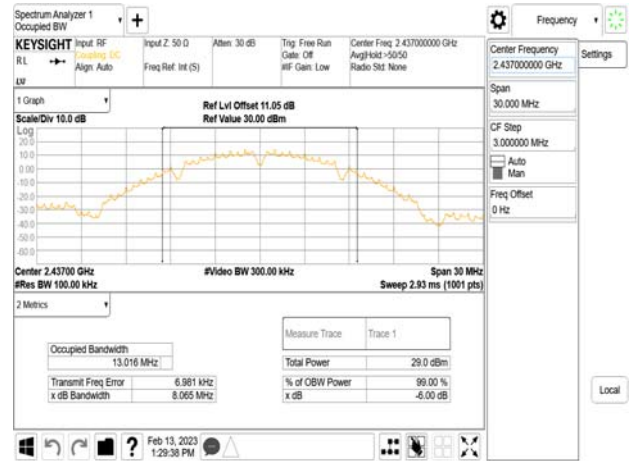
802.11b_20MHz_Chain1_2412MHz



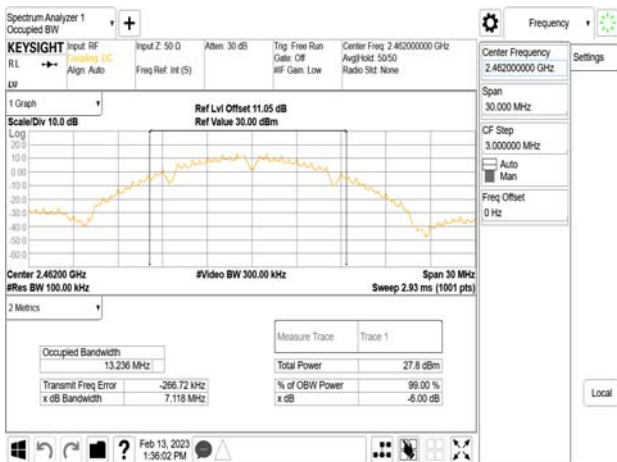
802.11b_20MHz_Chain0_2437MHz



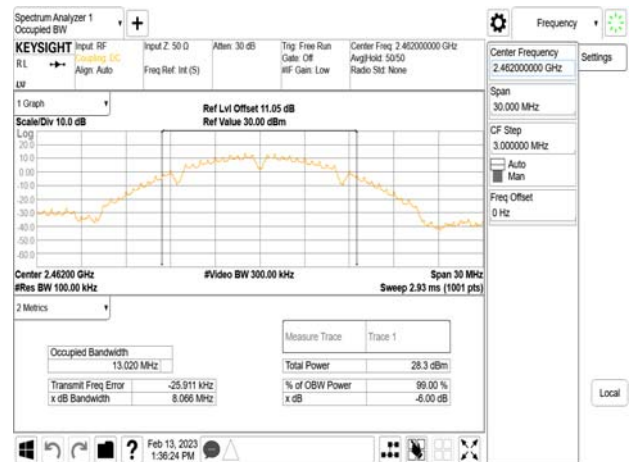
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

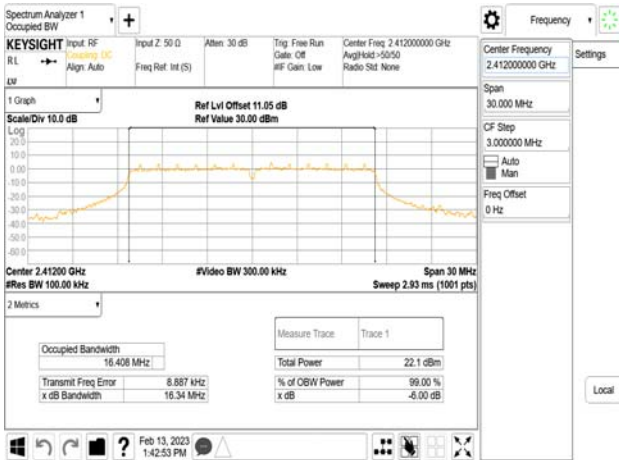


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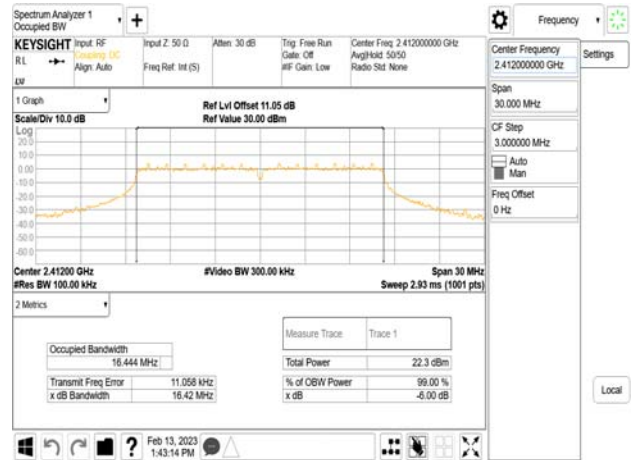
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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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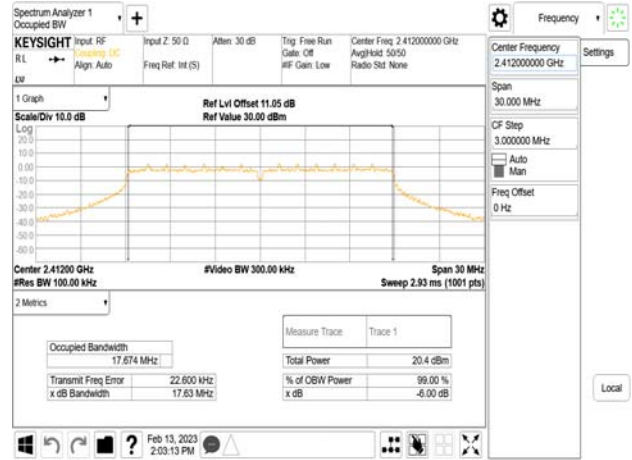
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802.11n_20MHz_Chain0_2412MHz



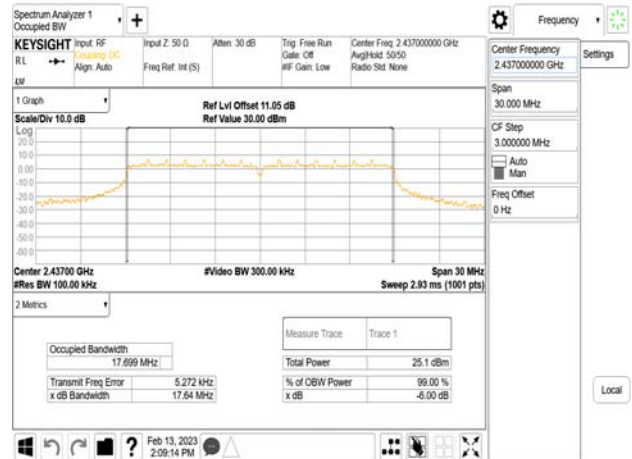
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802.11n_20MHz_Chain0_2437MHz



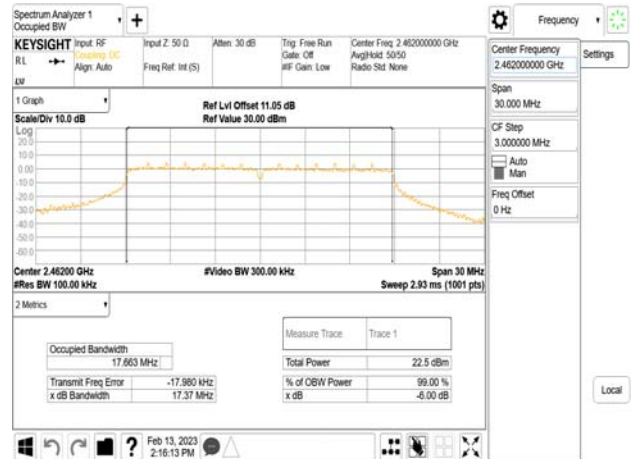
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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802.11n_40MHz_Chain0_2422MHz



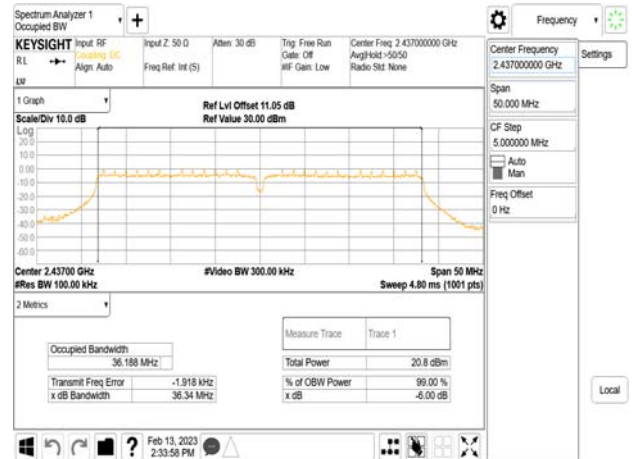
802.11n_40MHz_Chain1_2422MHz



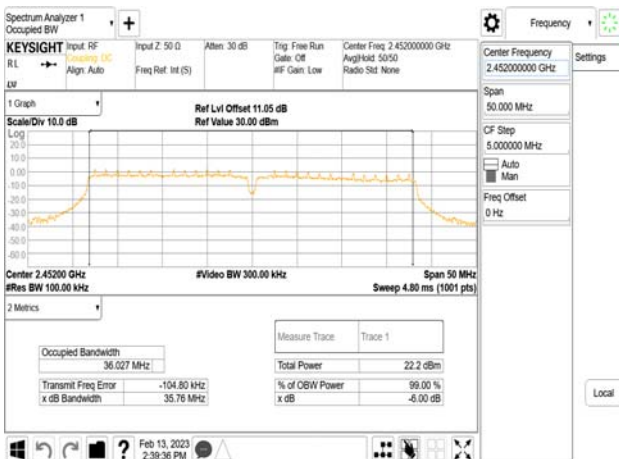
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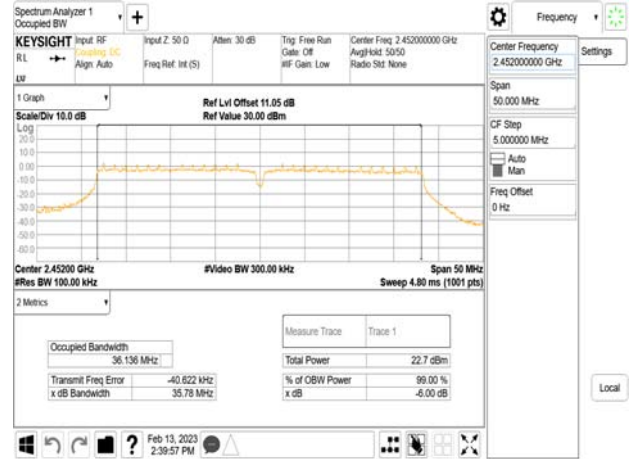
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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9.5 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	13.558	2412	13.247
2437	13.852	2437	13.05
2462	13.271	2462	13.048

802.11b Ch1

802.11g Ch0

Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	16.74	2412	16.627
2437	16.819	2437	16.691
2462	16.917	2462	16.696

802.11g Ch1

802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	17.87	2412	17.975
2437	18.001	2437	18.038
2462	18.035	2462	18.001

802.11n_HT20M Ch1

802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	36.694	2422	36.412
2437	36.588	2437	36.479
2452	36.492	2452	36.445

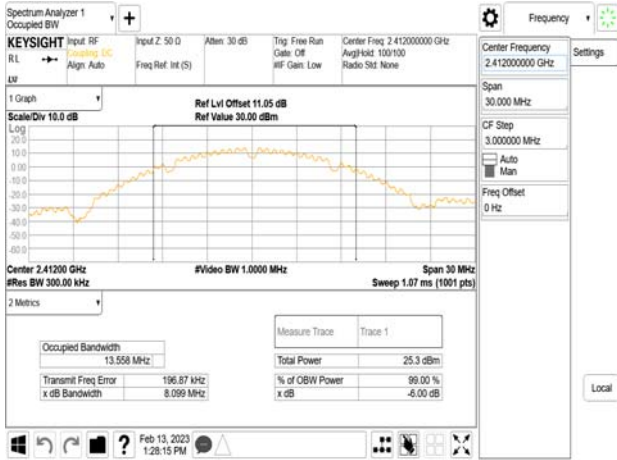
802.11n_HT40M Ch1

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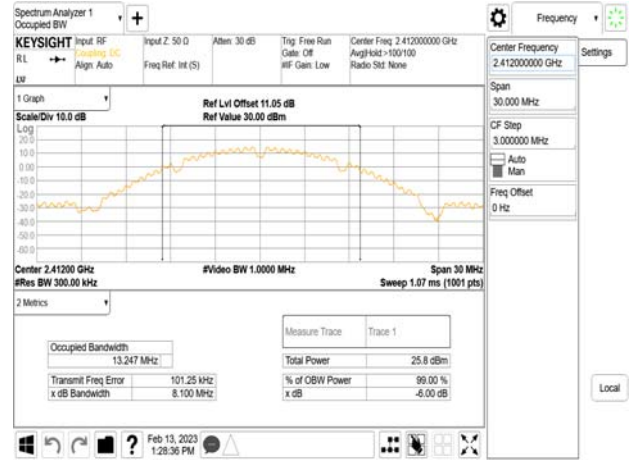
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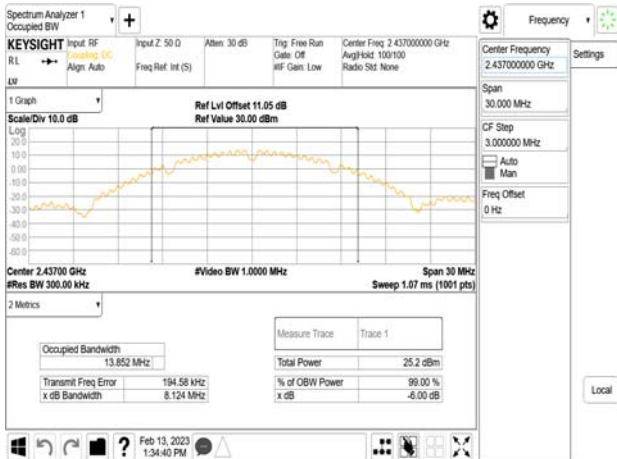
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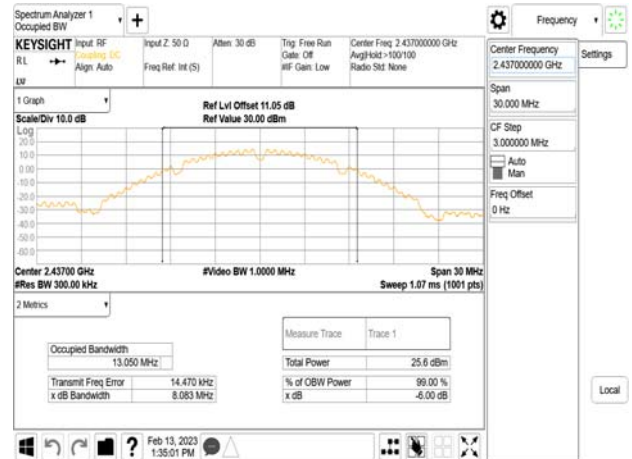
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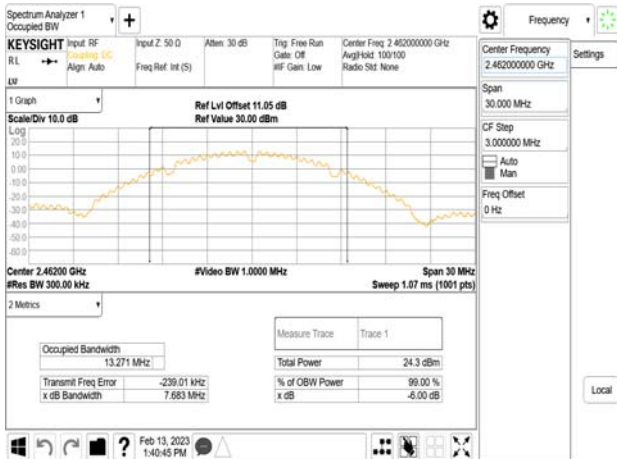
802.11b_20MHz_Chain0_2437MHz



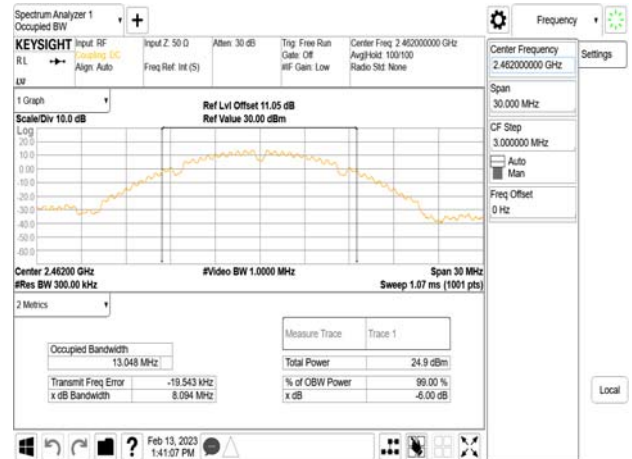
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802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

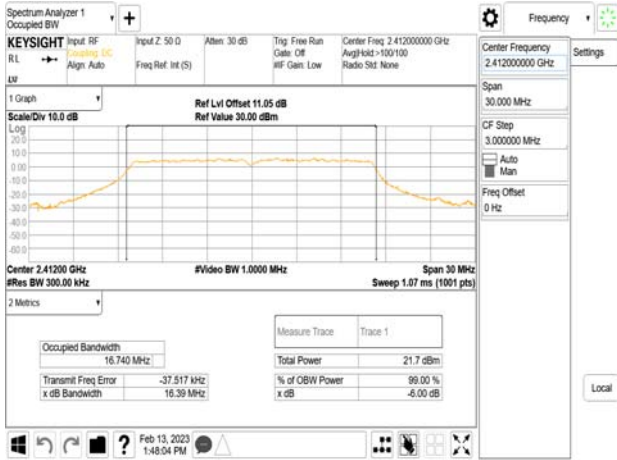


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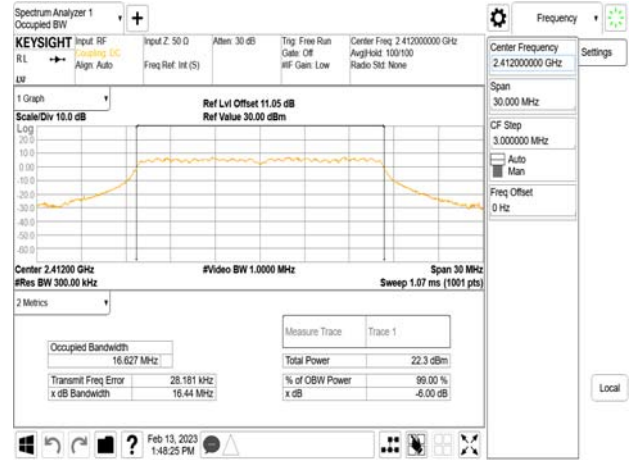
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802.11g_20MHz_Chain0_2412MHz



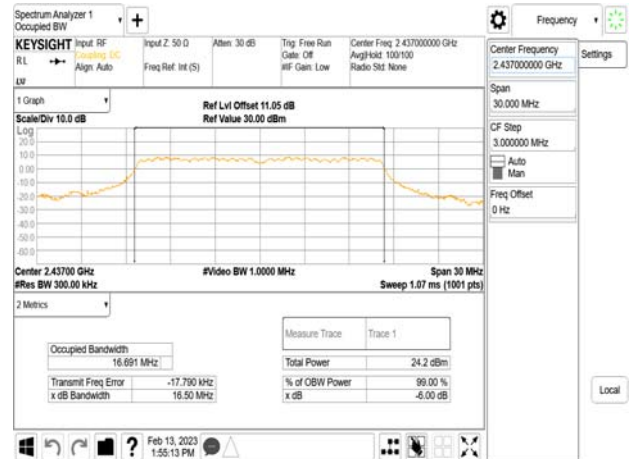
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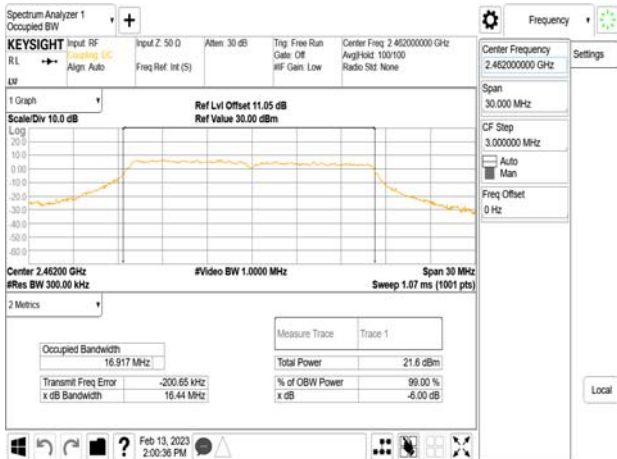
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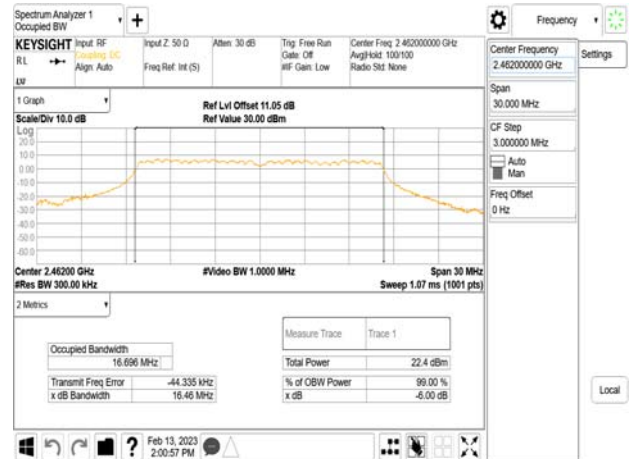
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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

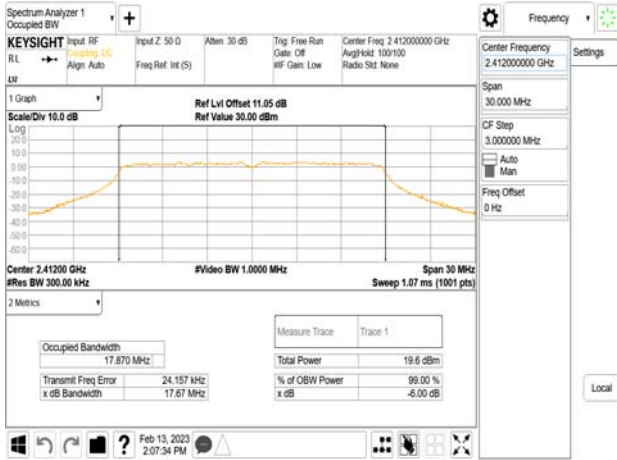


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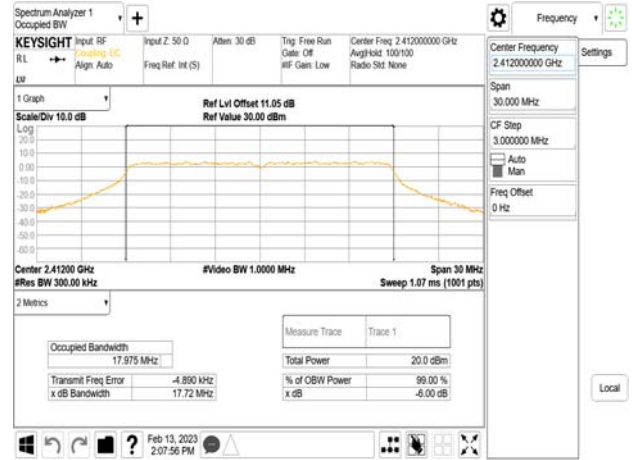
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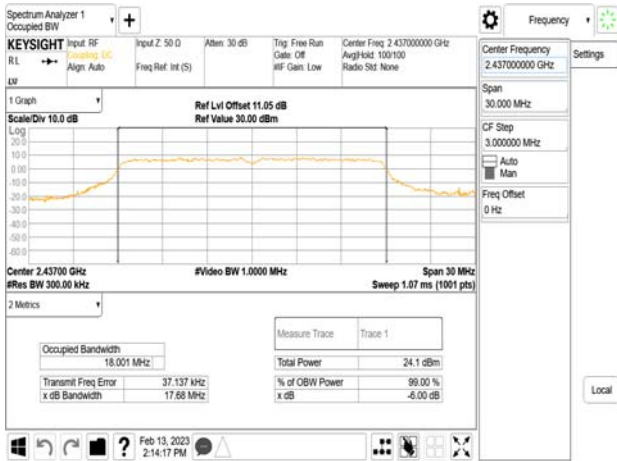
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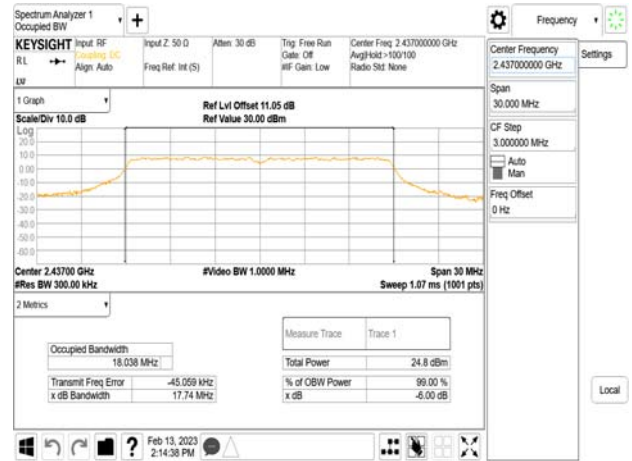
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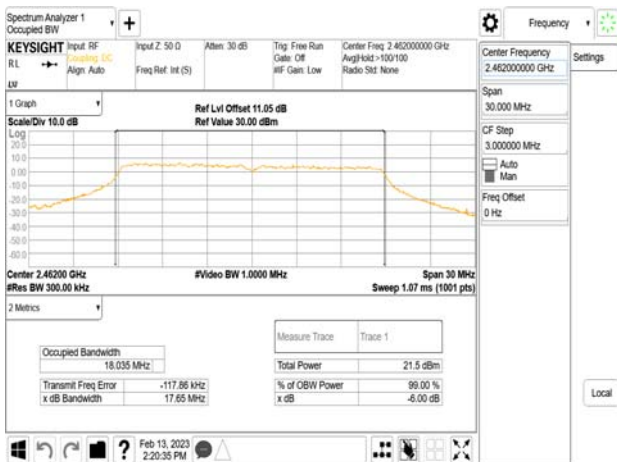
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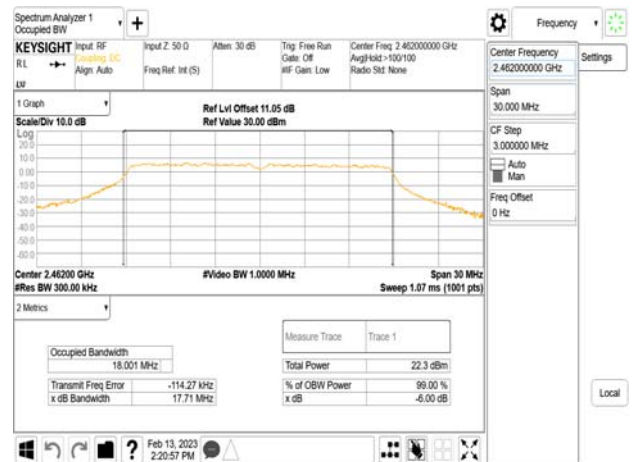
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

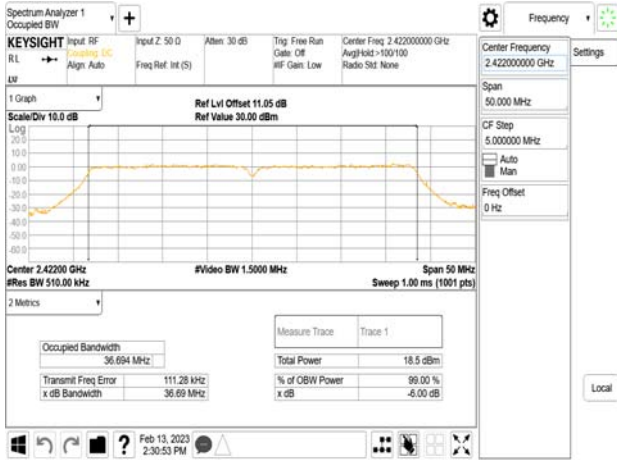


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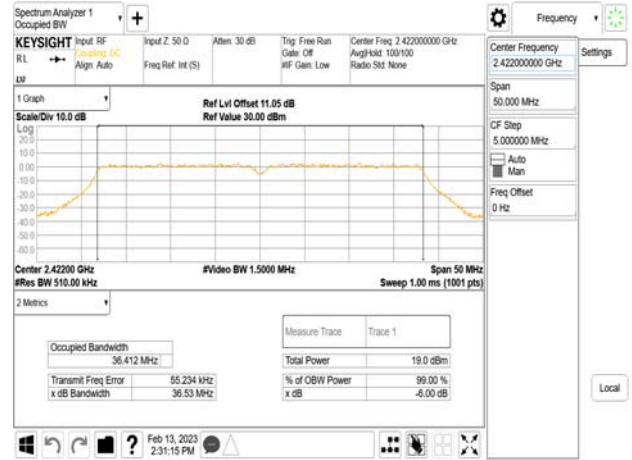
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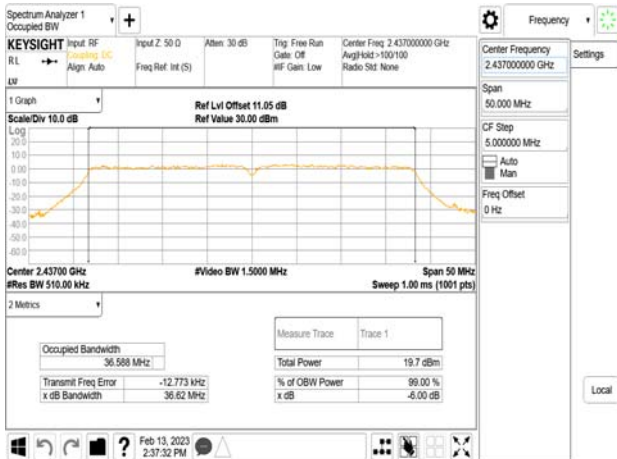
802.11n_40MHz_Chain0_2422MHz



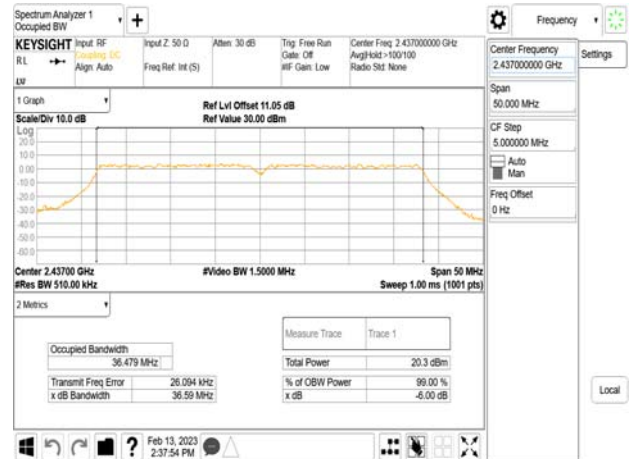
802.11n_40MHz_Chain1_2422MHz



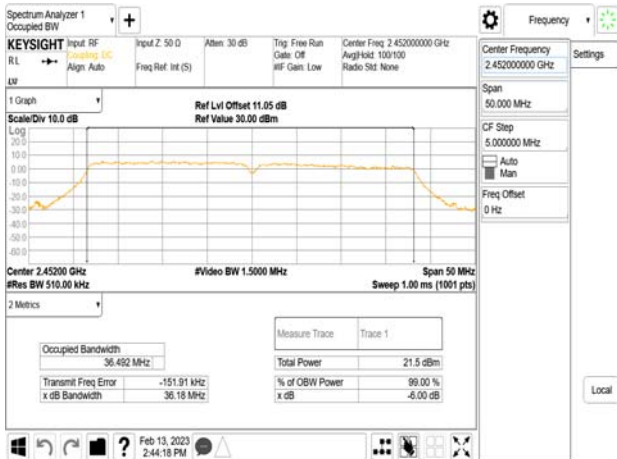
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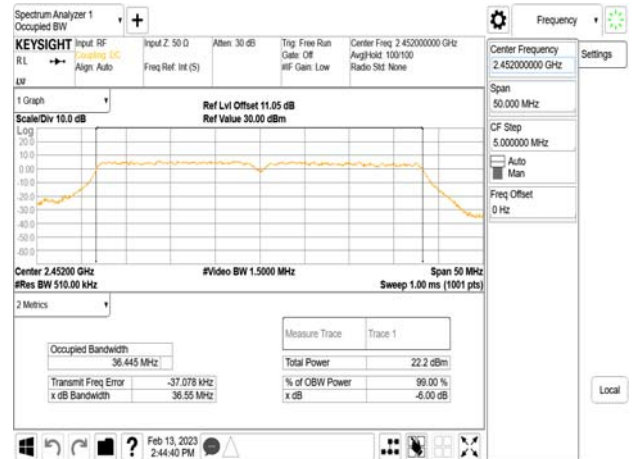
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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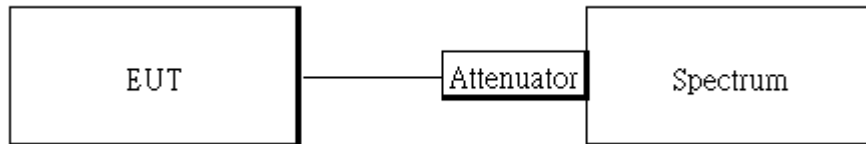
10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

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

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10.3.2 Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker of reference level measurement – 20dBm
8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

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

Note:

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

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10.4 Measurement Result

802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	13.81	-6.19
2437	13.61	-6.39
2462	12.99	-7.01

802.11b Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	14.38	-5.62
2437	14.16	-5.84
2462	13.58	-6.42

802.11g Ch0

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	4.26	-15.74
2437	6.02	-13.98
2462	4.70	-15.30

802.11g Ch1

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	4.15	-15.85
2437	6.16	-13.84
2462	4.85	-15.15

802.11n_HT_20M Ch0

Reference Level of Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.19	-17.81
2437	6.82	-13.18
2462	4.80	-15.20

802.11n_HT_20M Ch1

Reference Level of Limit 802.11ac20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.38	-17.62
2437	7.01	-12.99
2462	4.64	-15.36

802.11n_HT_40M Ch0

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-1.96	-21.96
2437	-0.14	-20.14
2452	1.86	-18.14

802.11n_HT_40M Ch1

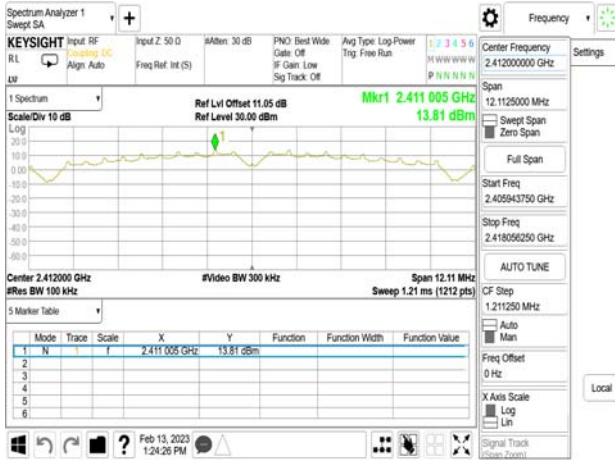
Reference Level of Limit 802.11ac40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-1.55	-21.55
2437	-0.06	-20.06
2452	1.98	-18.02

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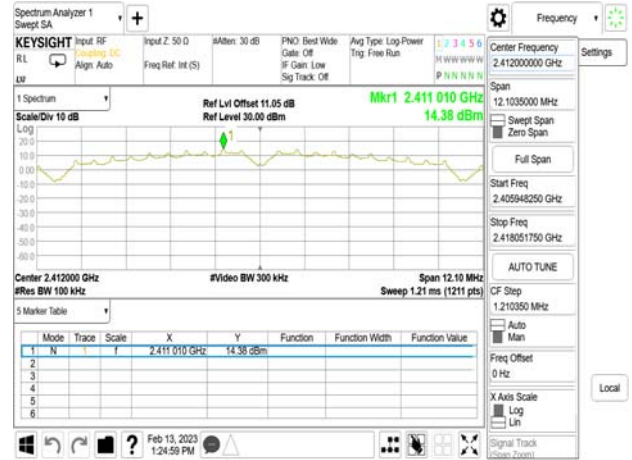
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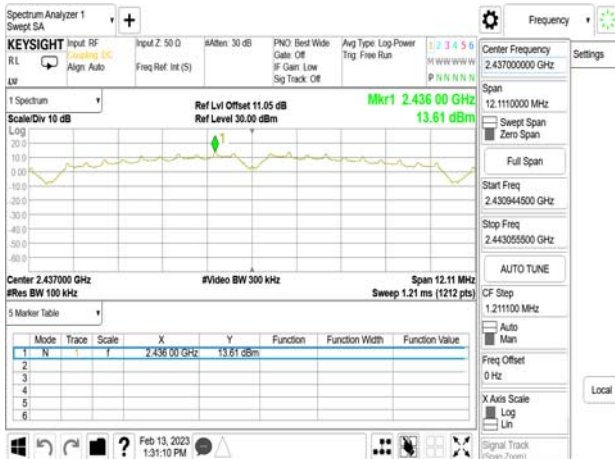
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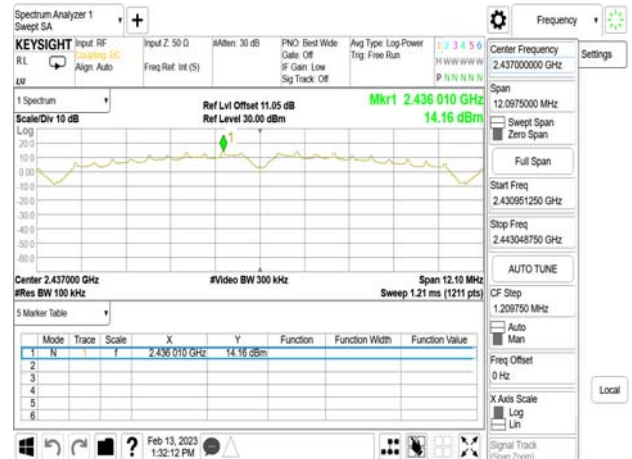
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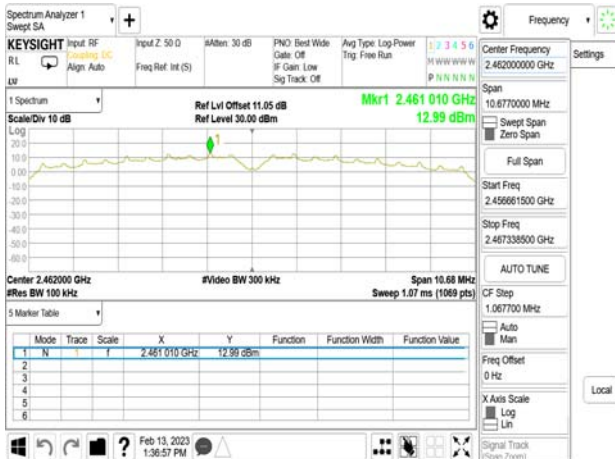
802.11b_20MHz_Chain0_2437MHz



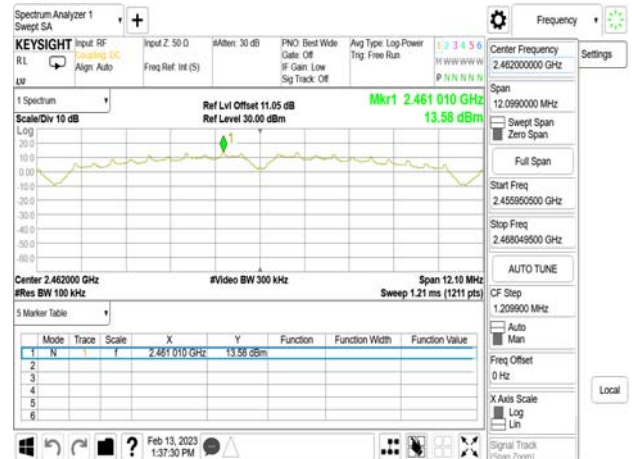
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802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

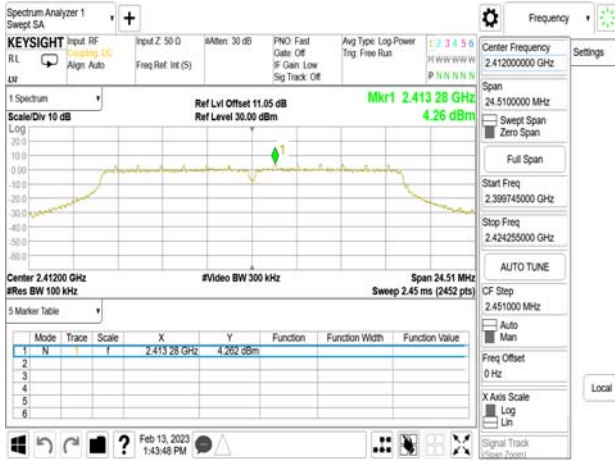


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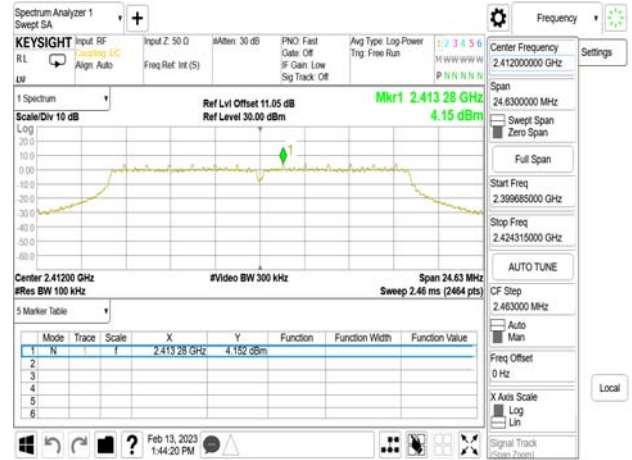
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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



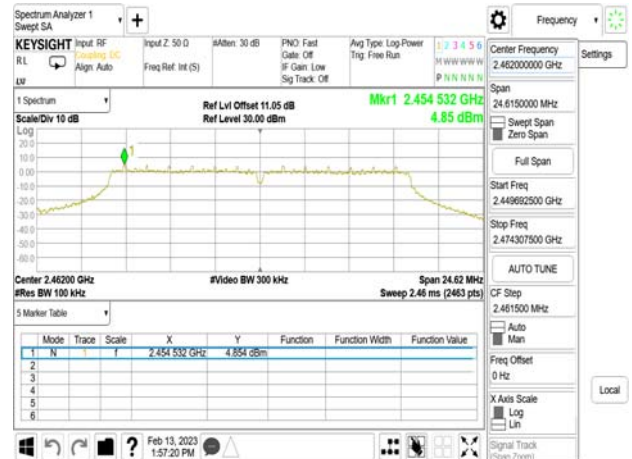
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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

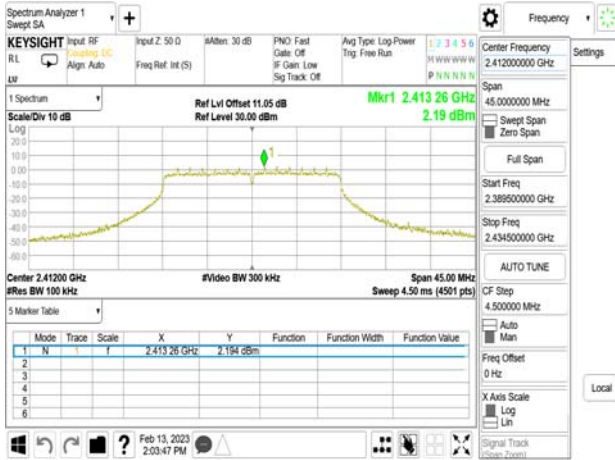


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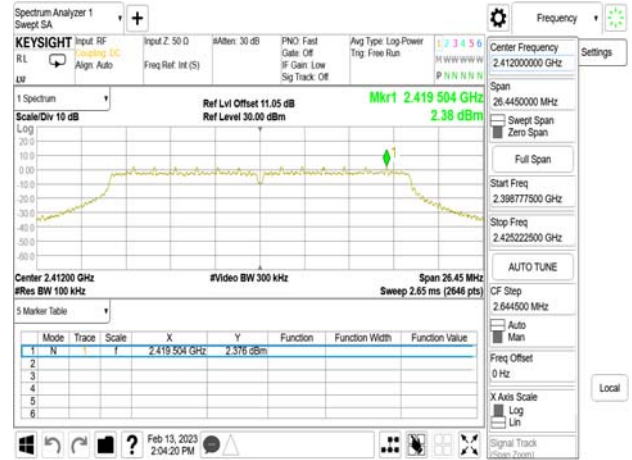
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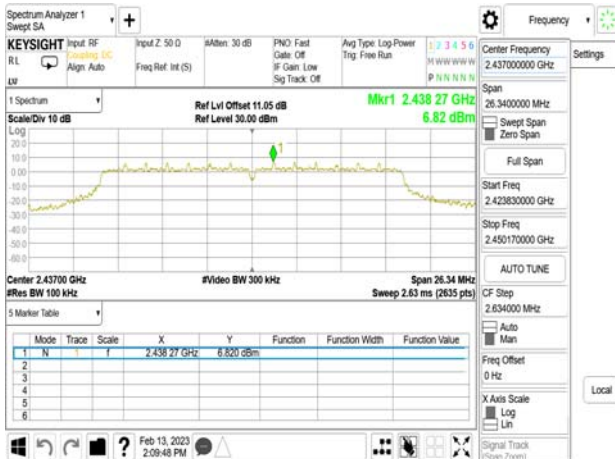
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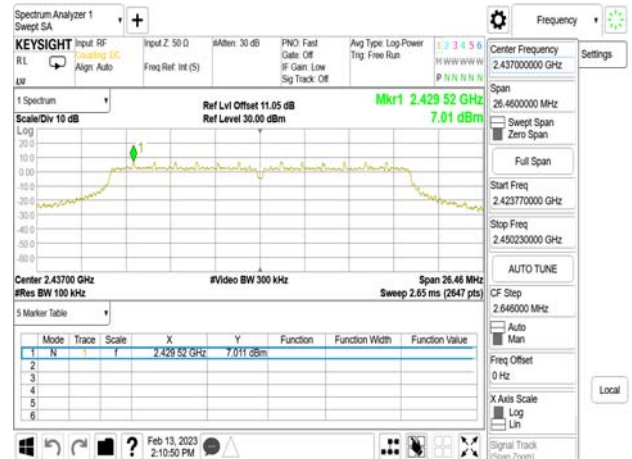
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

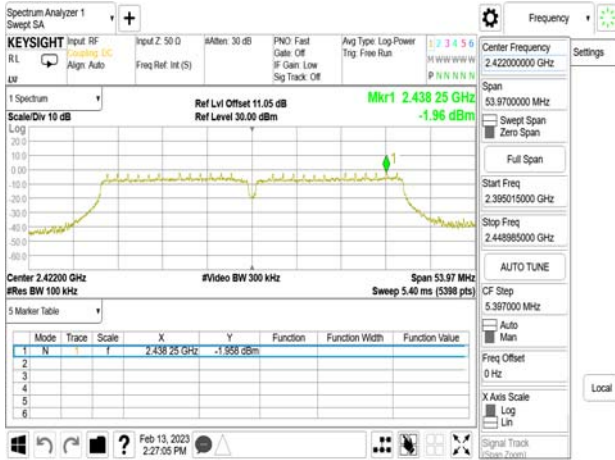


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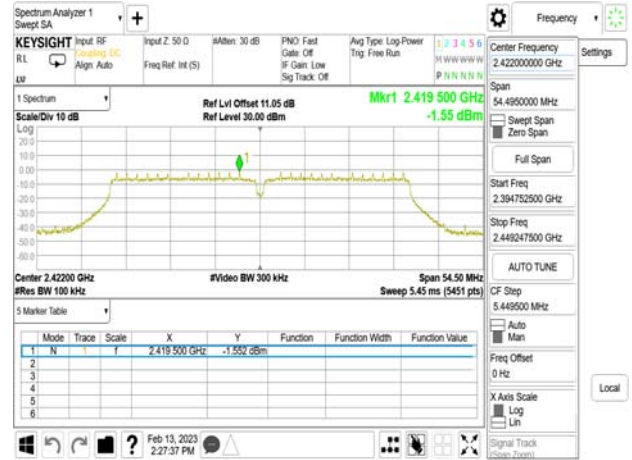
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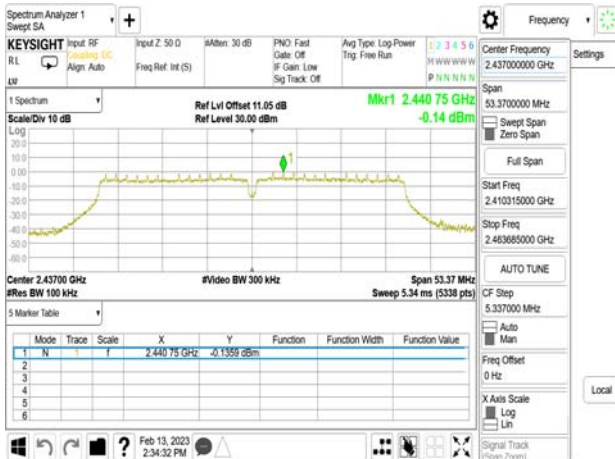
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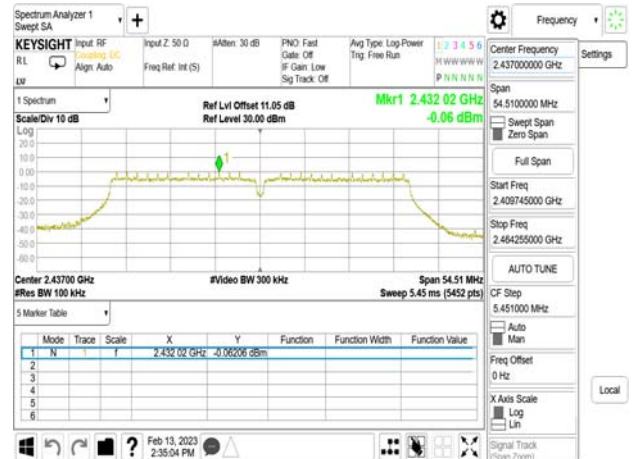
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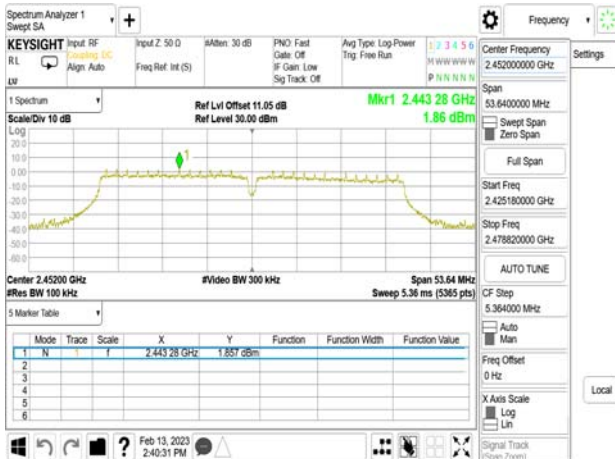
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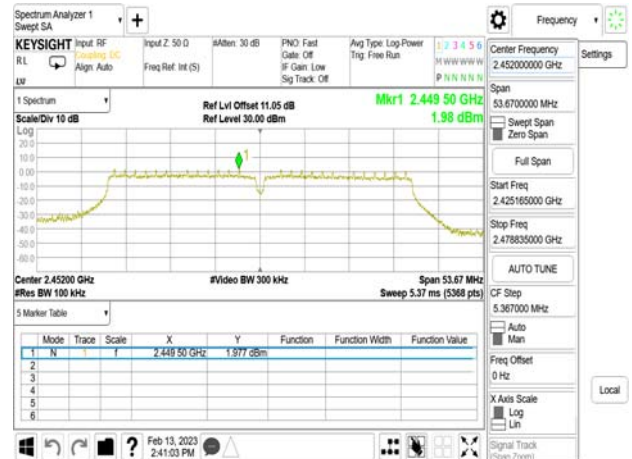
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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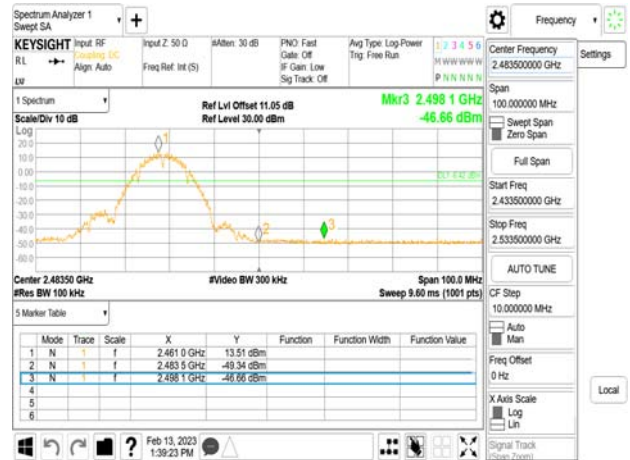
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802.11b_20MHz_Chain0_2412MHz



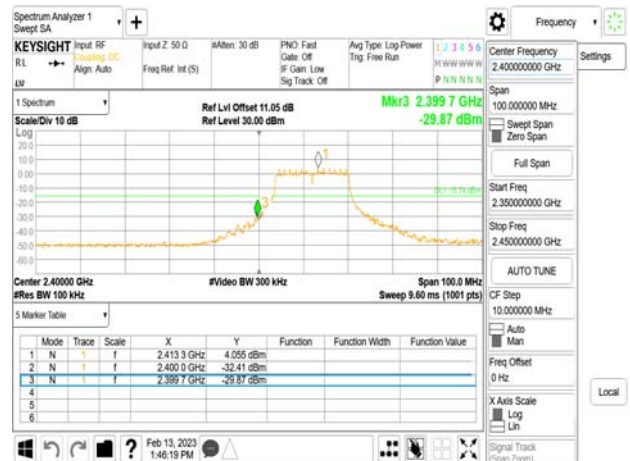
802.11b_20MHz_Chain1_2462MHz



802.11b_20MHz_Chain0_2462MHz



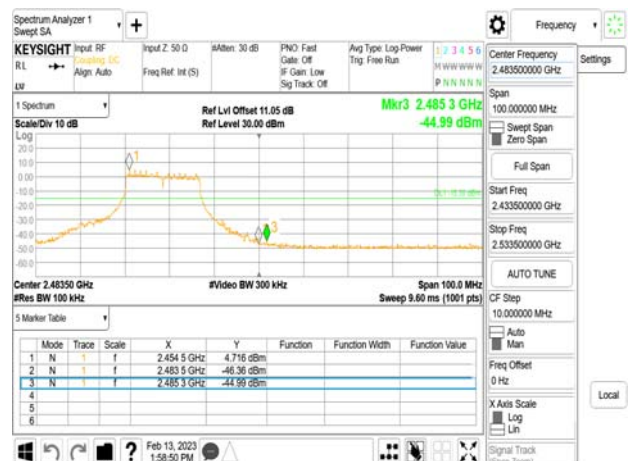
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2462MHz



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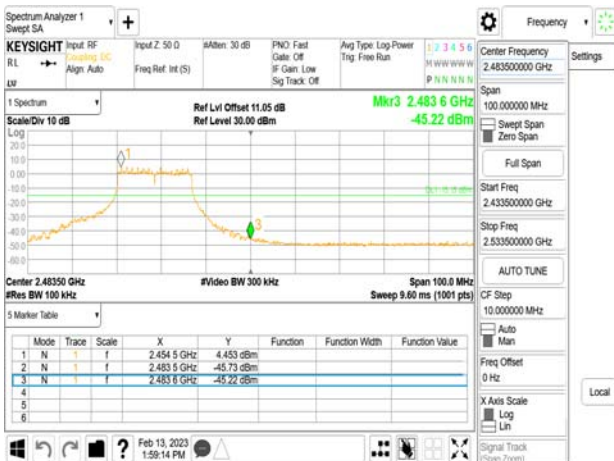
802.11g_20MHz_Chain1_2412MHz



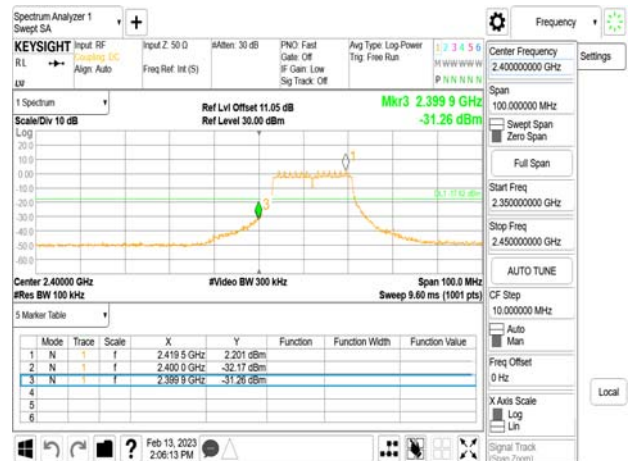
802.11n_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2462MHz



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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2422MHz



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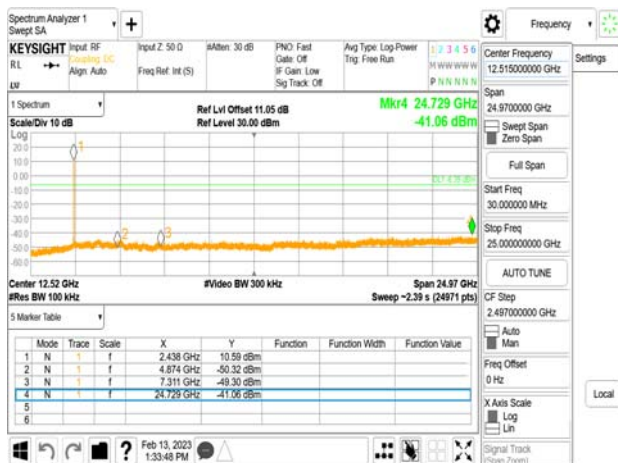
802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

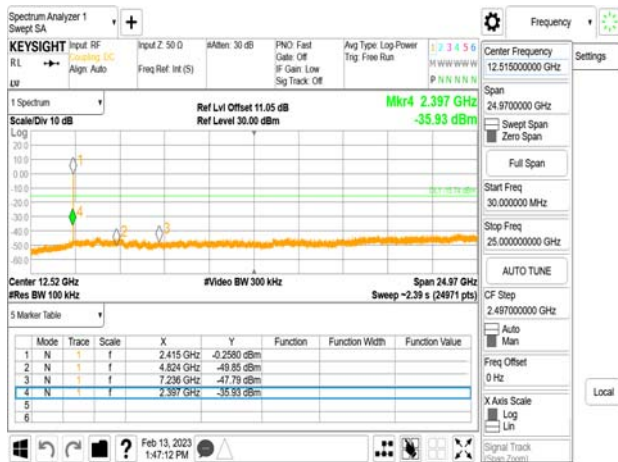


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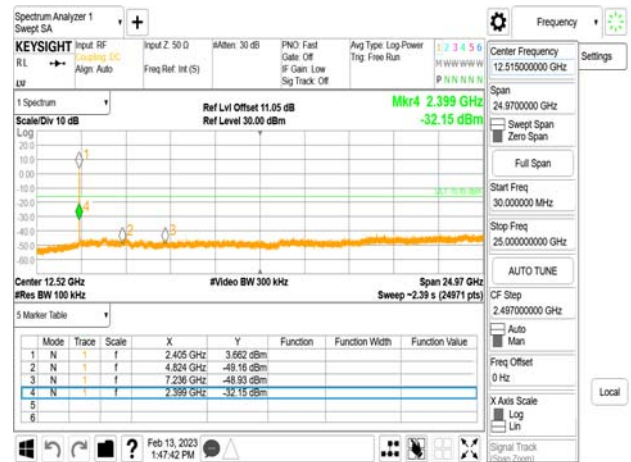
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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



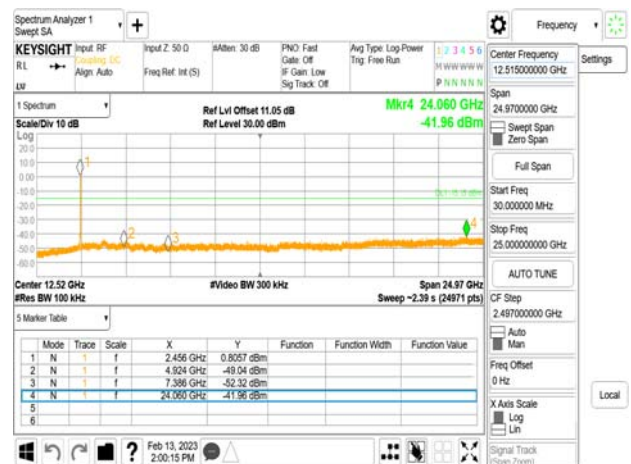
802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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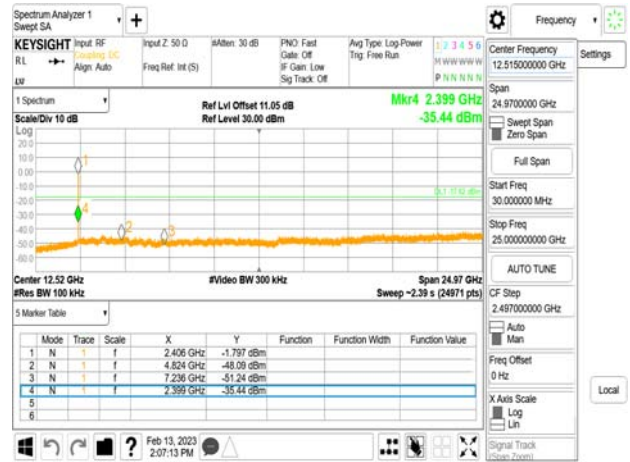
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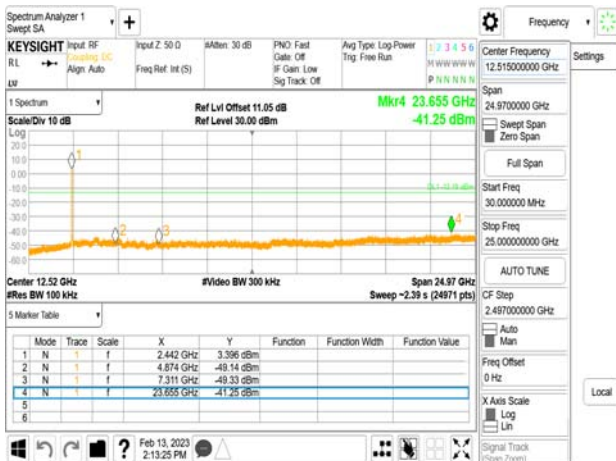
802.11n_20MHz_Chain0_2412MHz



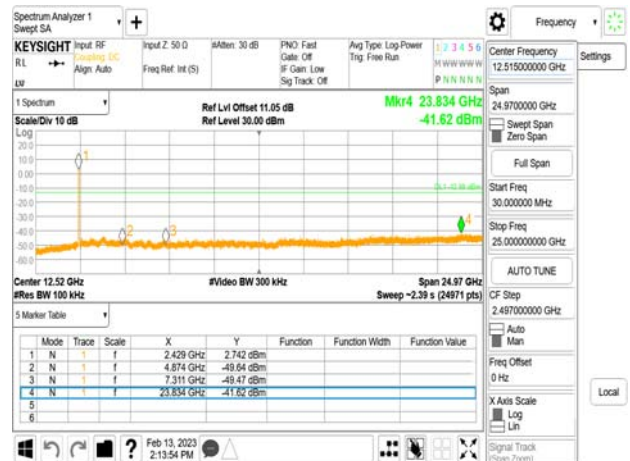
802.11n_20MHz_Chain1_2412MHz



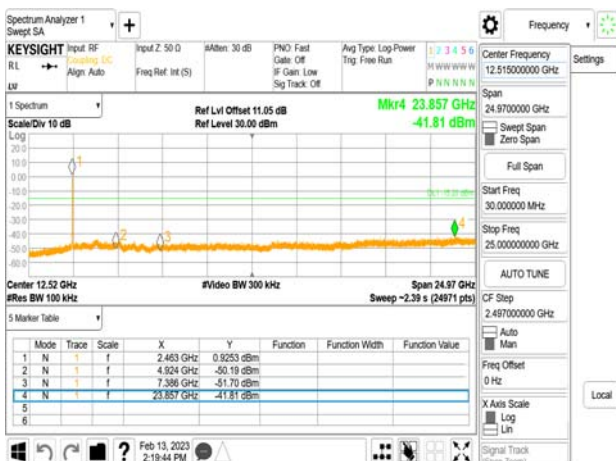
802.11n_20MHz_Chain0_2437MHz



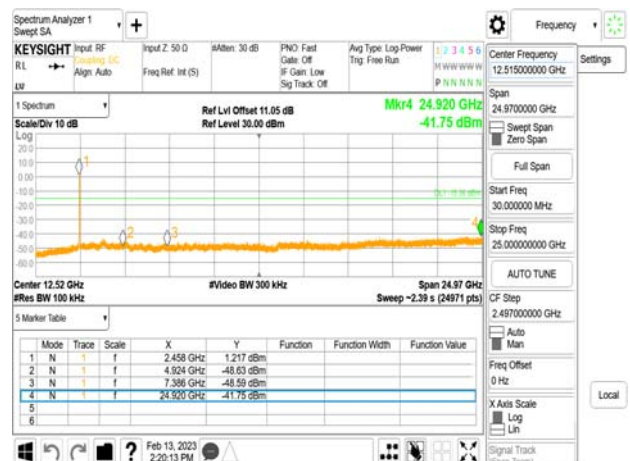
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

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

Note:

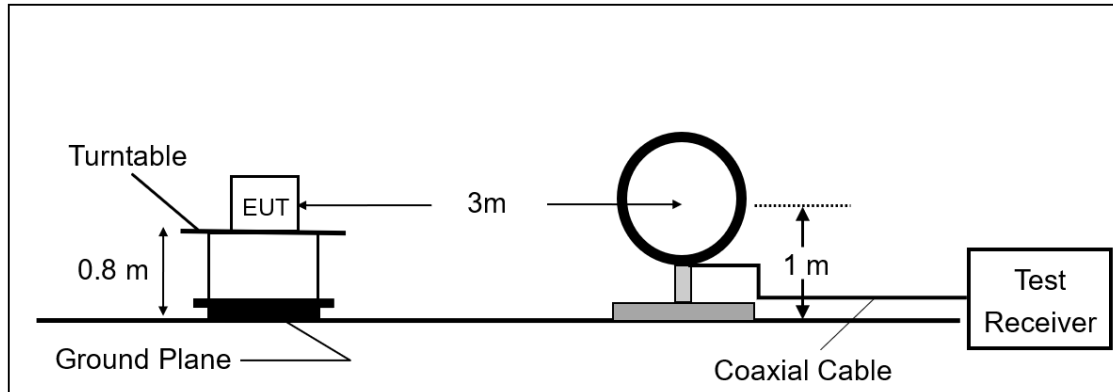
1. The lower limit shall apply at the transition frequencies.

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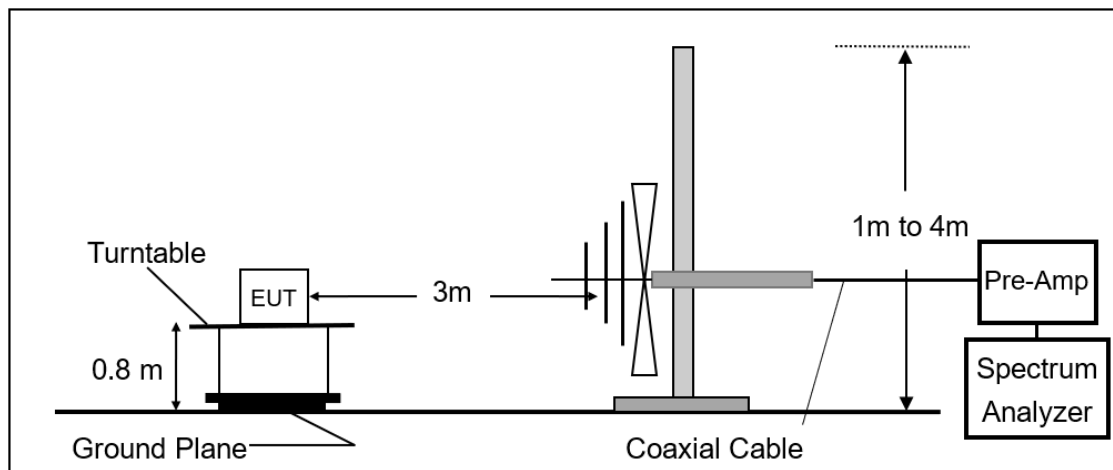
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11.2 Test Setup

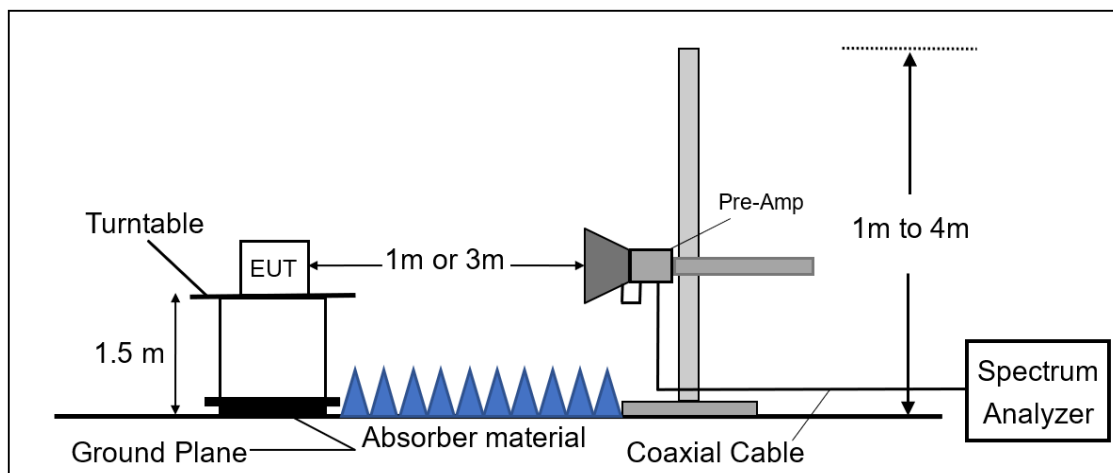
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

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

11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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$Actual\ FS(dB\mu V/m) = SPA.\ Reading\ level(dB\mu V) + Factor(dB)$

$Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

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

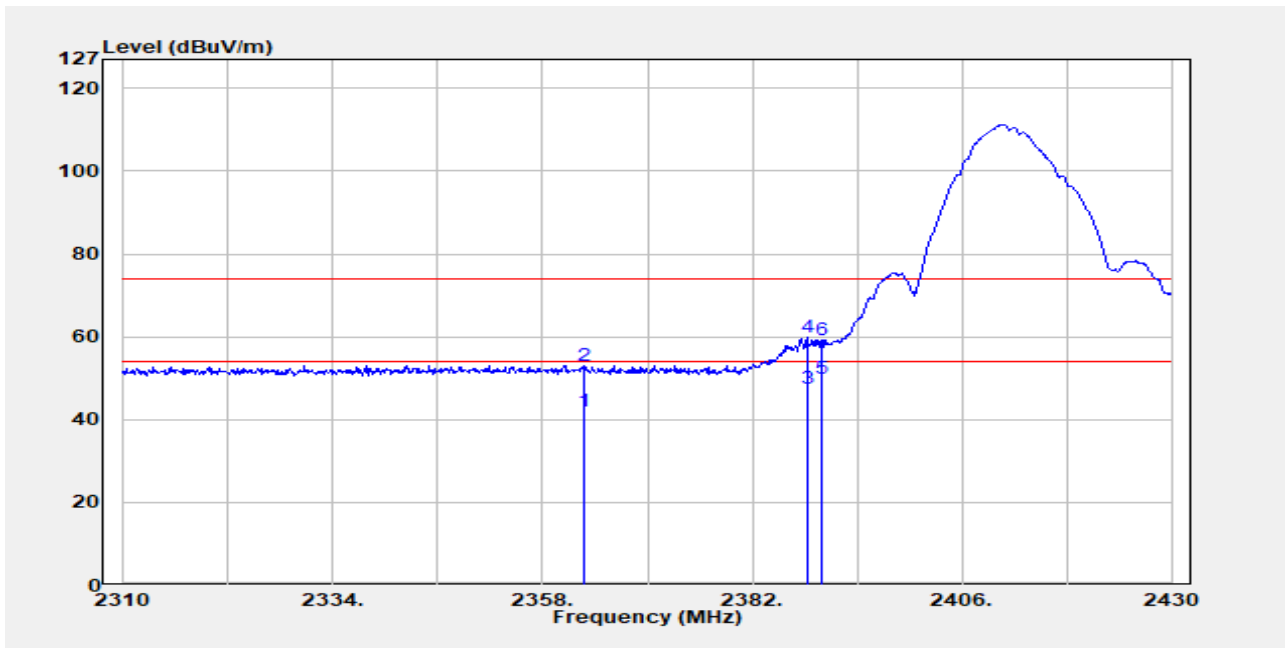
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11.6.1 Radiated Band Edge Measurement Result

Internal Antenna (Type: Printed antenna, Model no: N/A)

Report Number	:TERF2212002705ER	Test Site	:SAC 1
Operation Mode	:802.11b	Test Date	:2023-02-16
Test Frequency	:2412 MHz	Temp./Humi.	:22.5/54
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2362.80	Average	41.49	0.62	42.11	54.00	-11.89
2362.80	Peak	52.48	0.62	53.10	74.00	-20.90
2388.24	Average	46.74	0.60	47.34	54.00	-6.66
2388.24	Peak	59.30	0.60	59.90	74.00	-14.10
2390.00	Average	49.41	0.60	50.01	54.00	-3.99
2390.00	Peak	58.73	0.60	59.33	74.00	-14.67

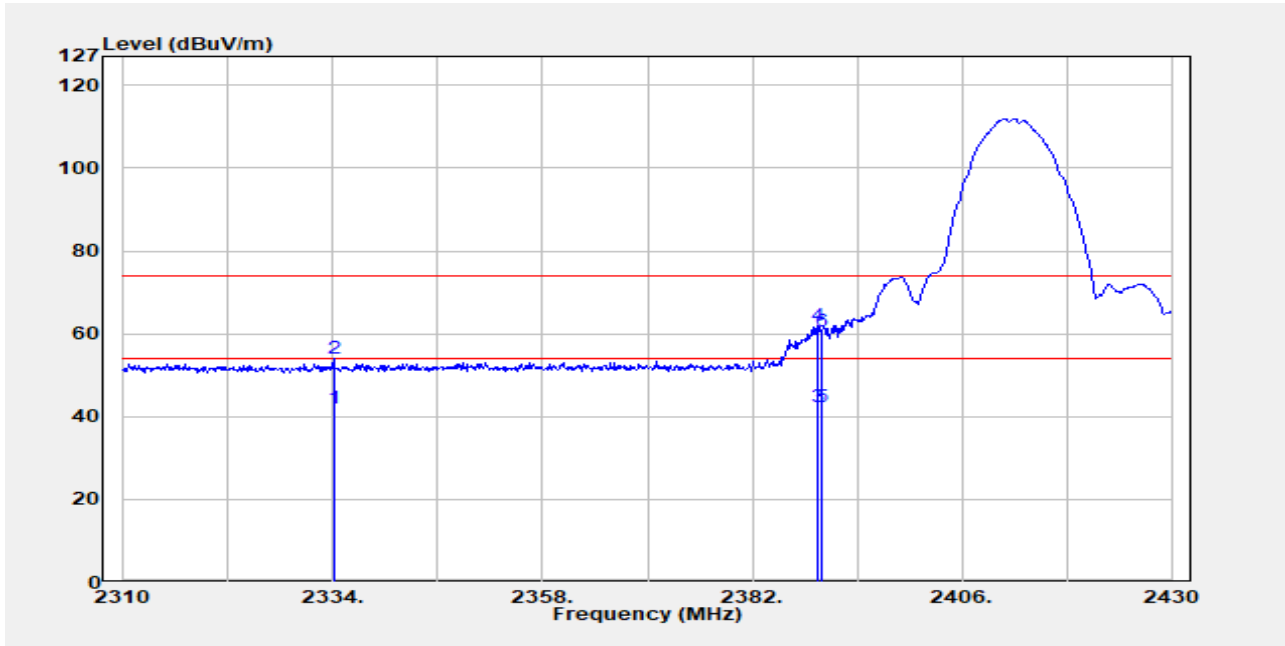
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2334.12	Average	41.46	0.55	42.01	54.00	-11.99
2334.12	Peak	53.34	0.55	53.89	74.00	-20.11
2389.44	Average	41.69	0.60	42.29	54.00	-11.71
2389.44	Peak	61.18	0.60	61.78	74.00	-12.22
2390.00	Average	41.65	0.60	42.25	54.00	-11.75
2390.00	Peak	60.12	0.60	60.72	74.00	-13.28

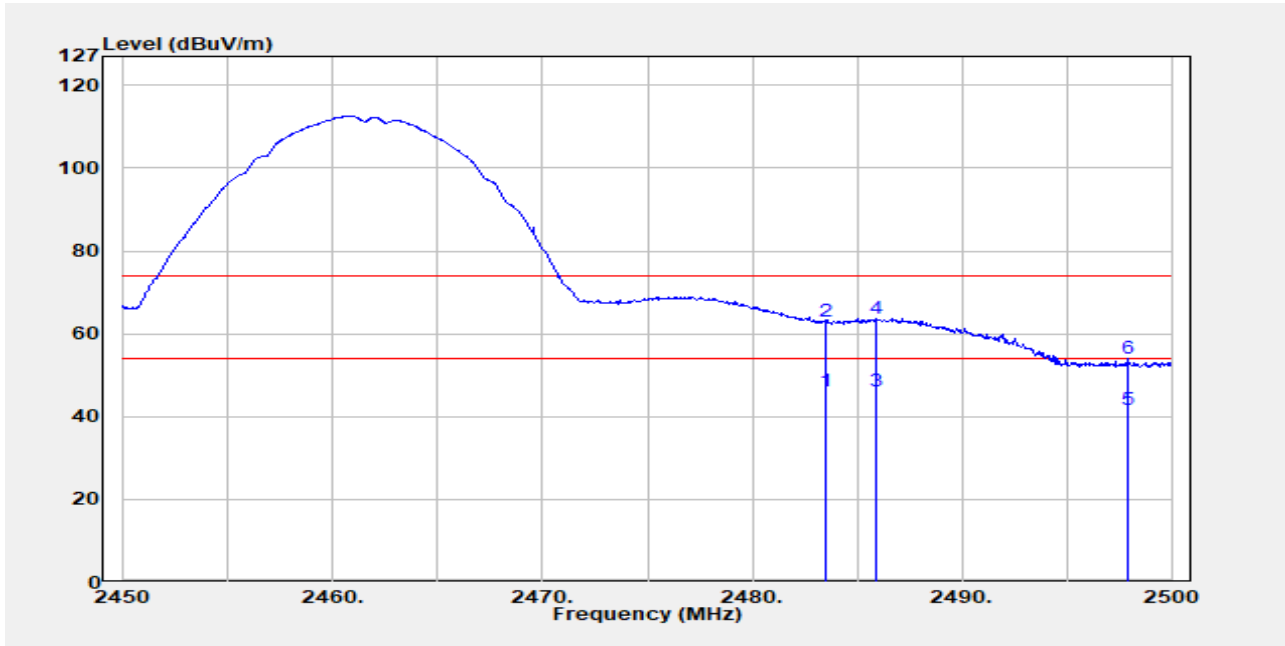
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.80	0.21	46.01	54.00	-7.99
2483.50	Peak	62.77	0.21	62.98	74.00	-11.02
2485.95	Average	46.03	0.24	46.27	54.00	-7.73
2485.95	Peak	63.49	0.24	63.73	74.00	-10.27
2497.90	Average	41.34	0.34	41.68	54.00	-12.32
2497.90	Peak	53.75	0.34	54.10	74.00	-19.90

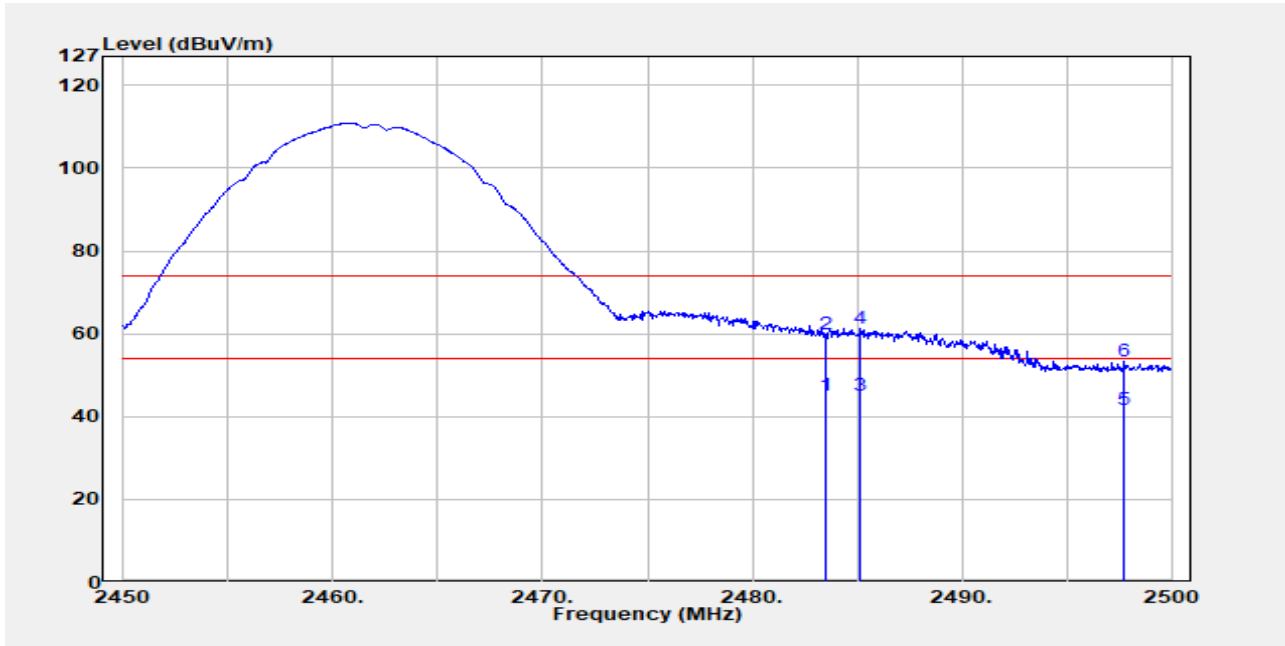
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.91	0.21	45.12	54.00	-8.88
2483.50	Peak	59.53	0.21	59.75	74.00	-14.25
2485.15	Average	45.01	0.23	45.24	54.00	-8.76
2485.15	Peak	61.00	0.23	61.22	74.00	-12.78
2497.75	Average	41.37	0.34	41.71	54.00	-12.29
2497.75	Peak	52.88	0.34	53.22	74.00	-20.78

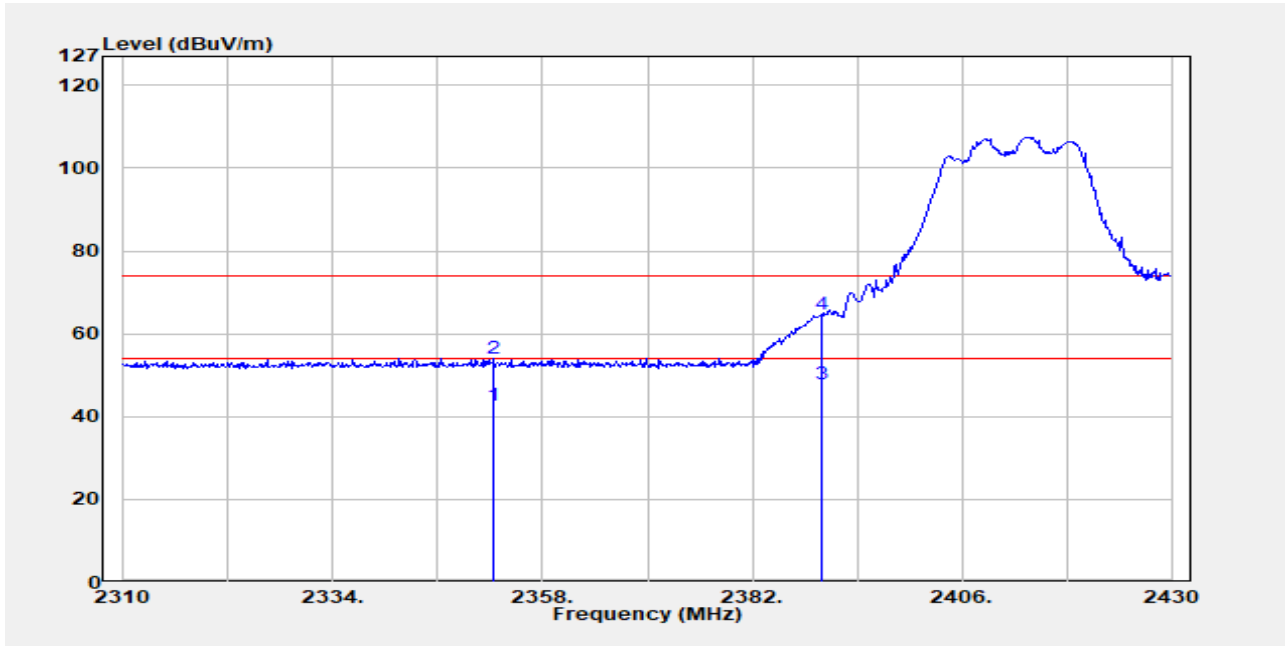
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2352.36	Average	42.02	0.63	42.65	54.00	-11.35
2352.36	Peak	53.50	0.63	54.13	74.00	-19.87
2390.00	Average	47.17	0.60	47.77	54.00	-6.23
2390.00	Peak	64.16	0.60	64.76	74.00	-9.24

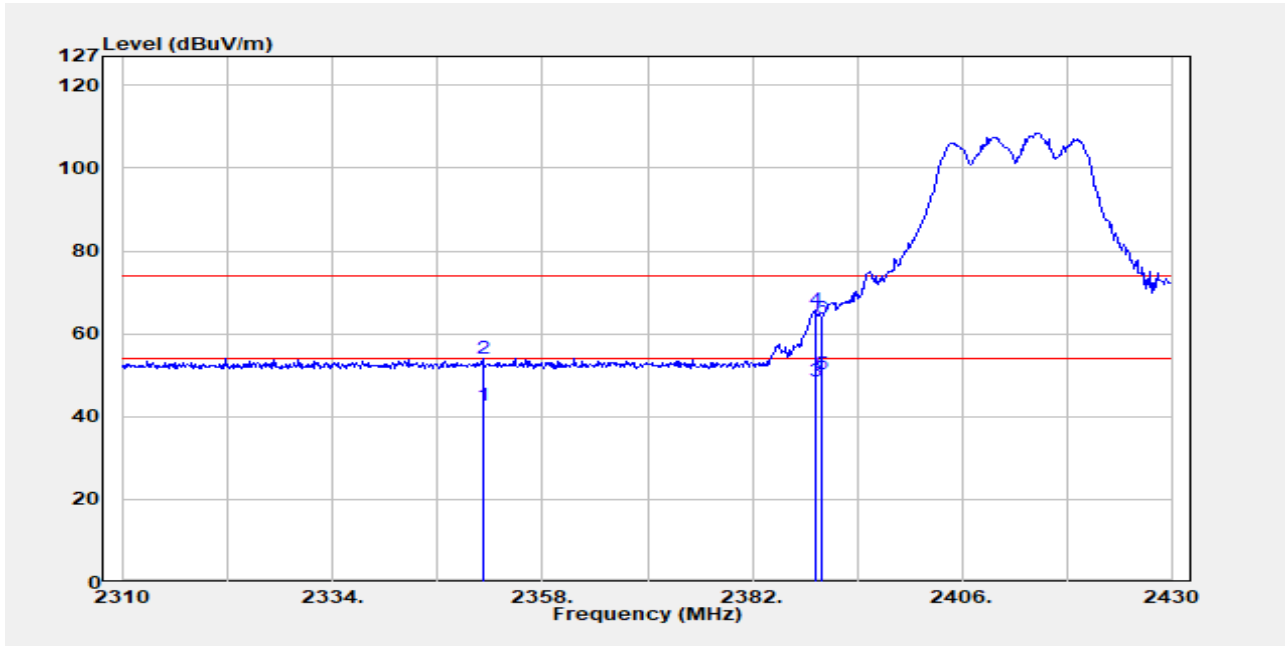
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2351.16	Average	41.90	0.63	42.53	54.00	-11.47
2351.16	Peak	53.42	0.63	54.06	74.00	-19.94
2389.20	Average	48.08	0.60	48.68	54.00	-5.32
2389.20	Peak	65.17	0.60	65.77	74.00	-8.23
2390.00	Average	49.63	0.60	50.23	54.00	-3.77
2390.00	Peak	63.22	0.60	63.82	74.00	-10.18

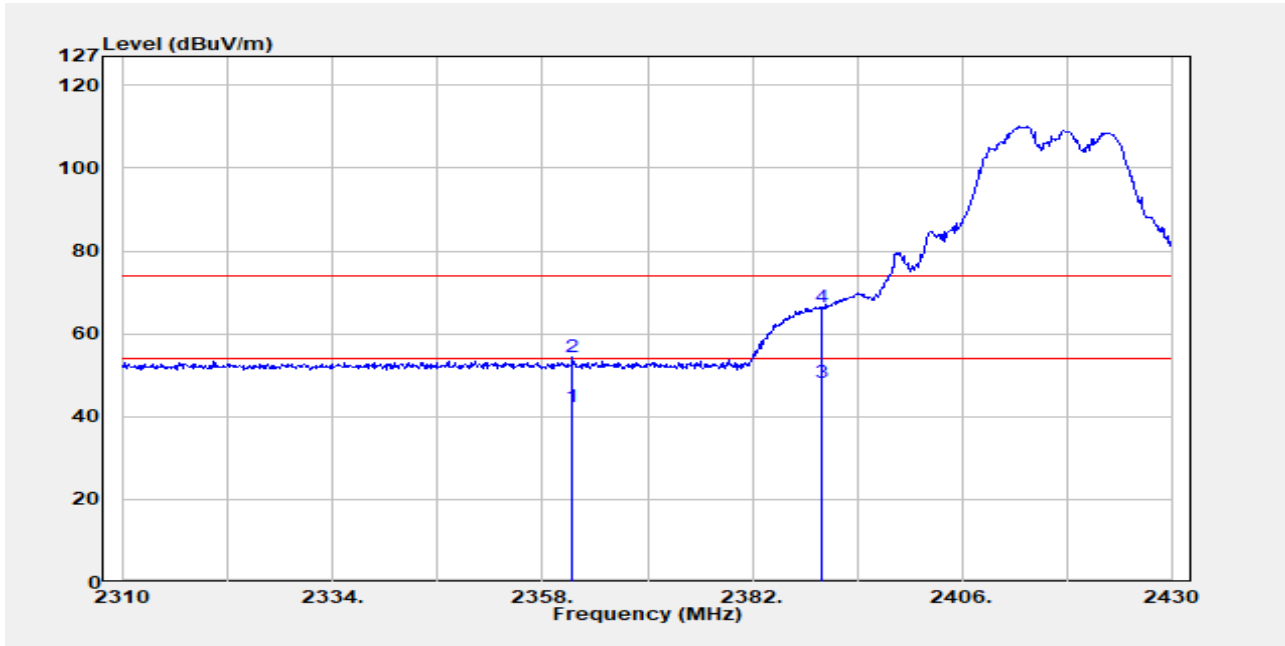
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



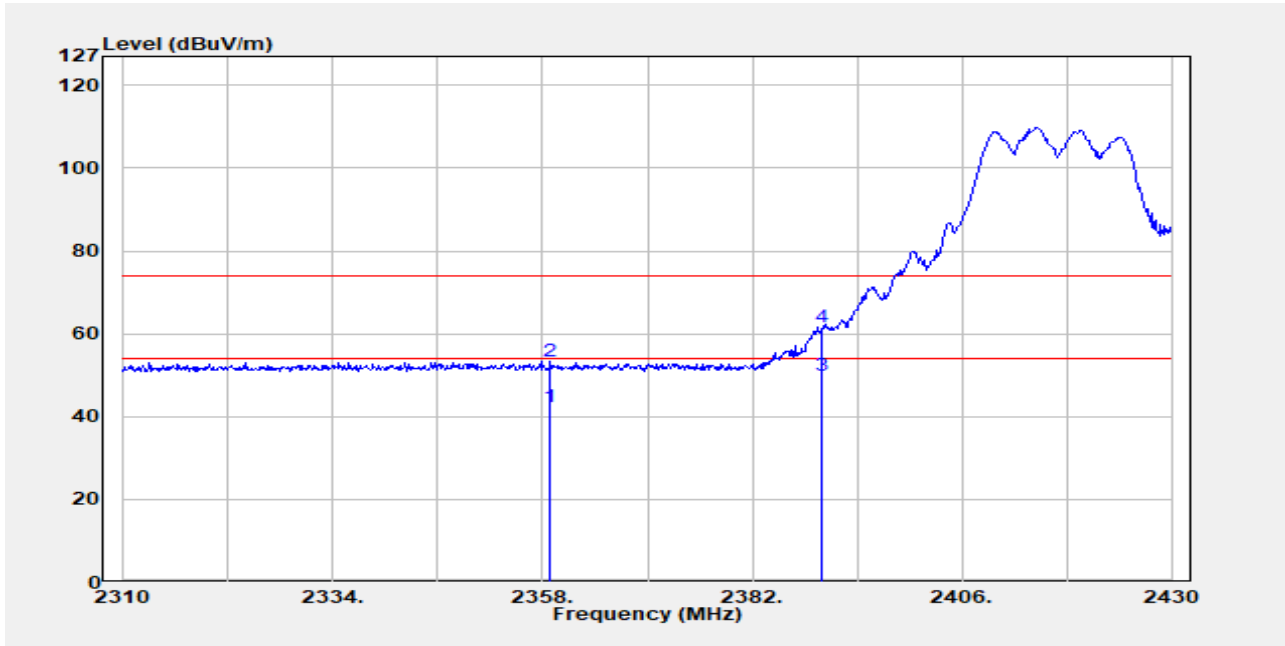
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2361.36	Average	41.57	0.62	42.19	54.00	-11.81
2361.36	Peak	53.67	0.62	54.30	74.00	-19.70
2390.00	Average	47.66	0.60	48.26	54.00	-5.74
2390.00	Peak	65.79	0.60	66.39	74.00	-7.61

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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



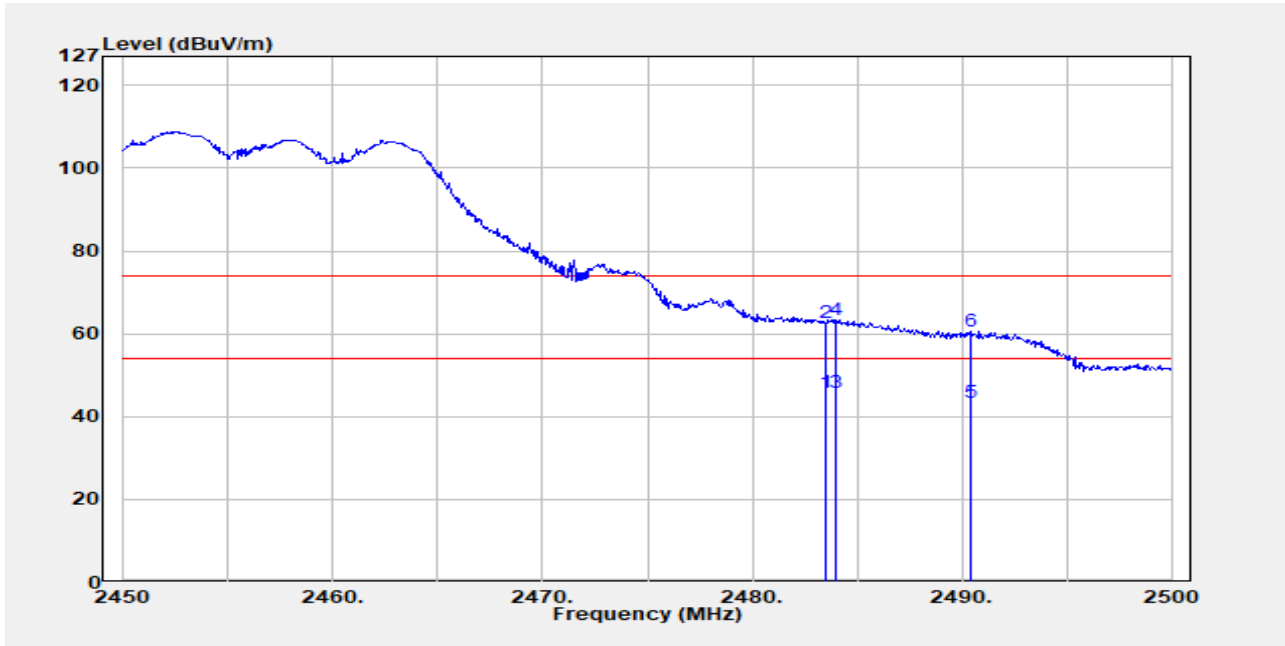
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2358.84	Average	41.66	0.63	42.29	54.00	-11.71
2358.84	Peak	52.81	0.63	53.44	74.00	-20.56
2390.00	Average	49.18	0.60	49.78	54.00	-4.22
2390.00	Peak	61.02	0.60	61.62	74.00	-12.38

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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	45.53	0.21	45.74	54.00	-8.26
2483.50	Peak	62.59	0.21	62.80	74.00	-11.20
2484.00	Average	45.60	0.22	45.82	54.00	-8.18
2484.00	Peak	63.24	0.22	63.46	74.00	-10.54
2490.40	Average	43.12	0.28	43.40	54.00	-10.60
2490.40	Peak	60.32	0.28	60.60	74.00	-13.40

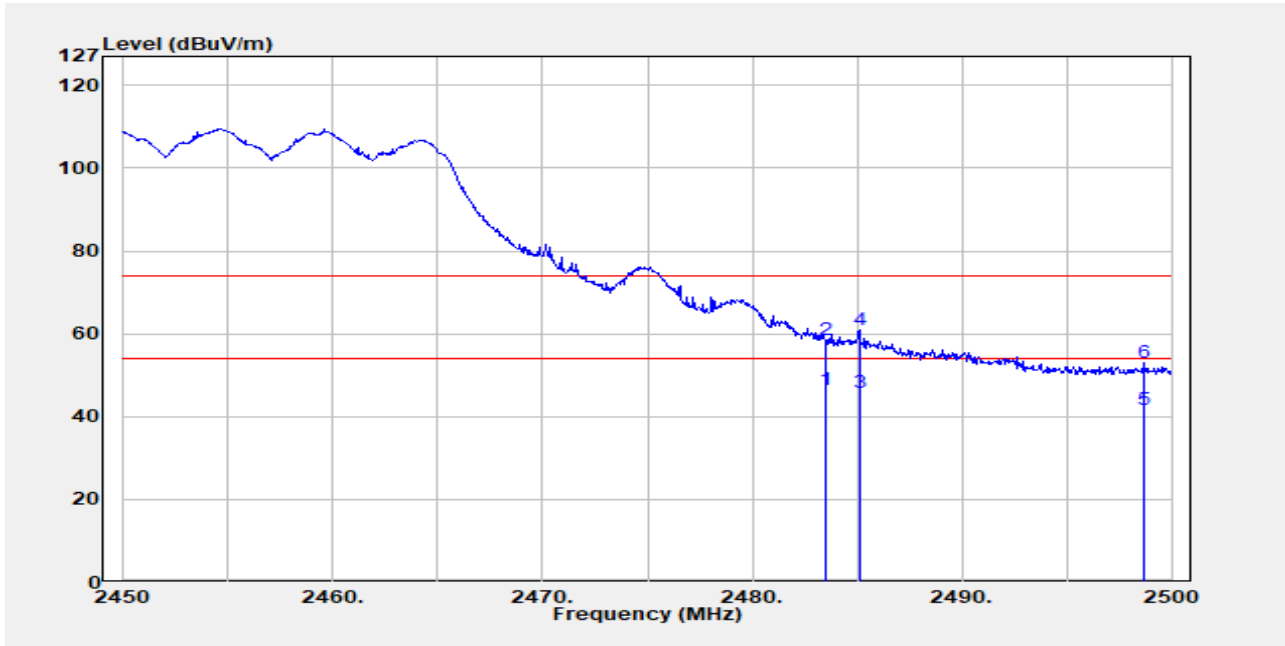
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.38	0.21	46.59	54.00	-7.41
2483.50	Peak	58.30	0.21	58.52	74.00	-15.48
2485.10	Average	45.42	0.23	45.65	54.00	-8.35
2485.10	Peak	60.81	0.23	61.04	74.00	-12.96
2498.65	Average	41.36	0.35	41.71	54.00	-12.29
2498.65	Peak	52.66	0.35	53.01	74.00	-20.99

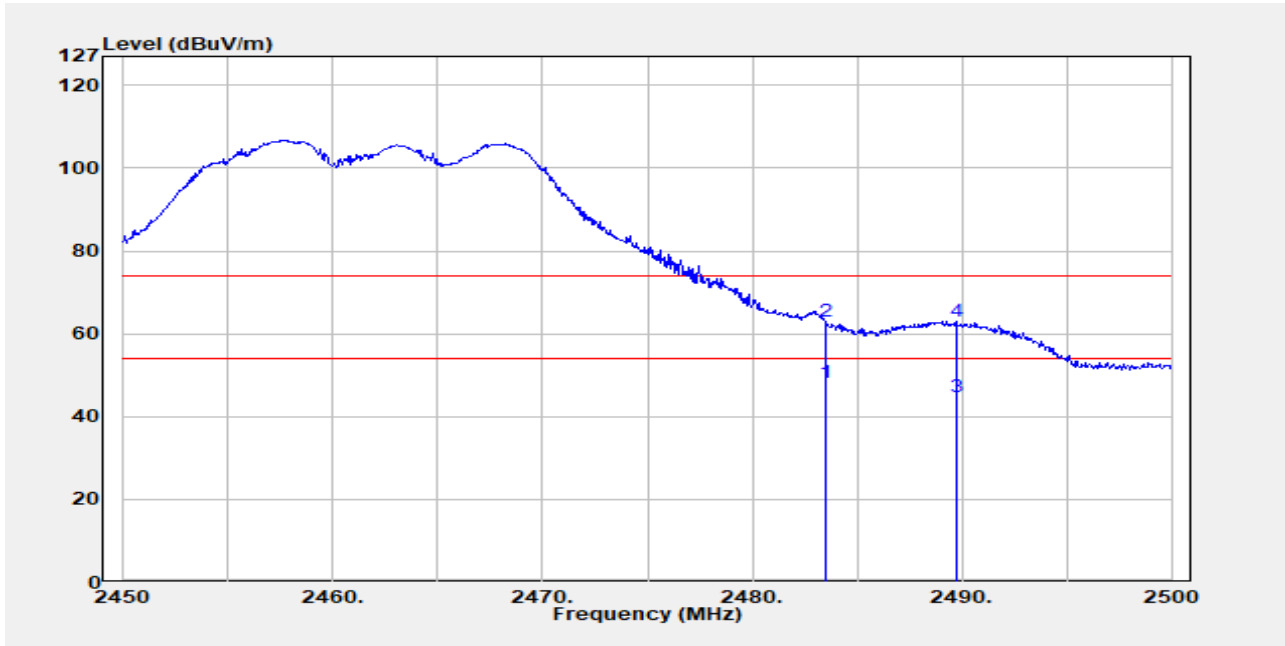
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	48.06	0.21	48.27	54.00	-5.73
2483.50	Peak	62.66	0.21	62.87	74.00	-11.13
2489.75	Average	44.48	0.27	44.75	54.00	-9.25
2489.75	Peak	62.84	0.27	63.11	74.00	-10.89

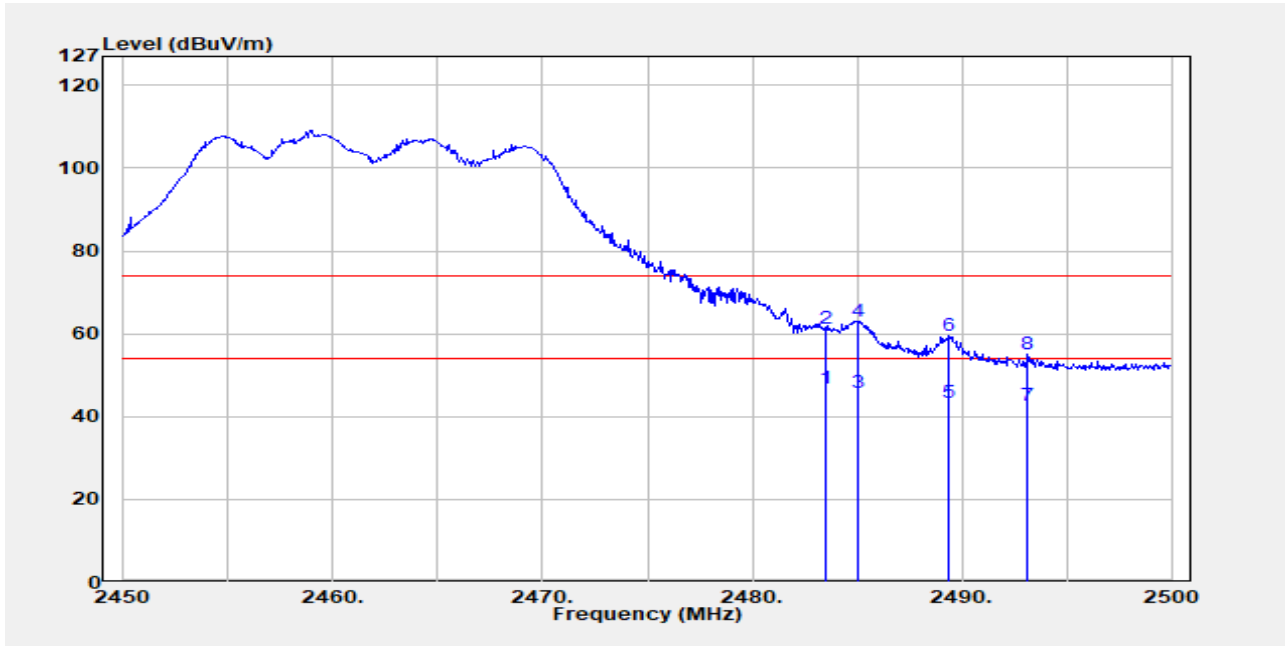
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.52	0.21	46.73	54.00	-7.27
2483.50	Peak	60.91	0.21	61.13	74.00	-12.87
2485.05	Average	45.49	0.23	45.72	54.00	-8.28
2485.05	Peak	62.89	0.23	63.12	74.00	-10.88
2489.35	Average	43.16	0.27	43.43	54.00	-10.57
2489.35	Peak	59.13	0.27	59.40	74.00	-14.60
2493.15	Average	42.31	0.30	42.61	54.00	-11.39
2493.15	Peak	54.82	0.30	55.12	74.00	-18.88

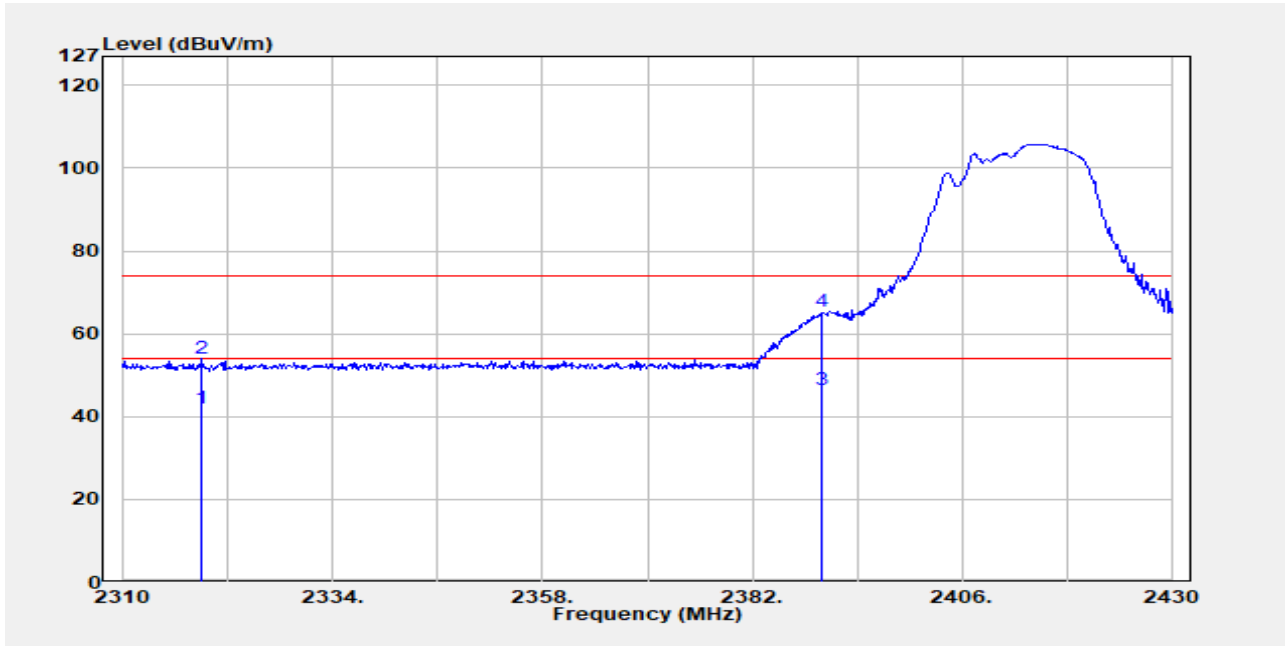
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2319.00	Average	41.67	0.48	42.15	54.00	-11.85
2319.00	Peak	53.59	0.48	54.07	74.00	-19.93
2390.00	Average	46.01	0.60	46.61	54.00	-7.39
2390.00	Peak	64.63	0.60	65.23	74.00	-8.77

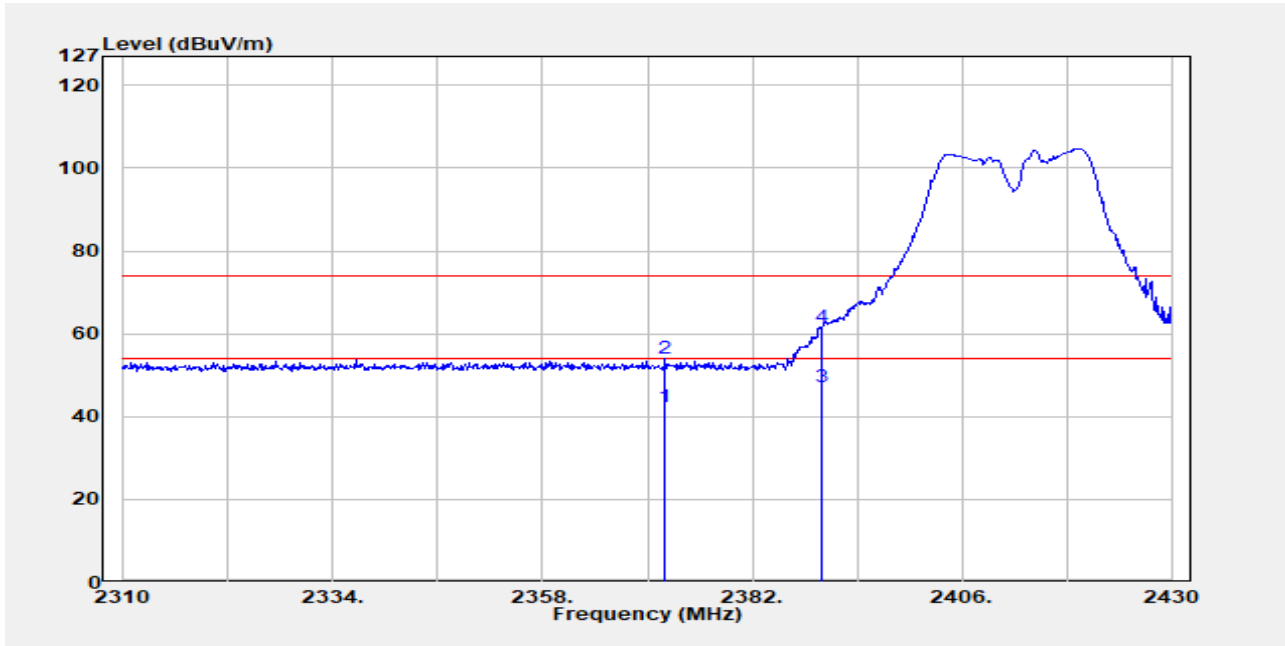
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Report Number :TERF2212002705ER
Operation Mode :802.11n20
Test Frequency :2412 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-02-16
Temp./Humi. :22.5/54
Antenna Pol. :Horizontal
Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2372.04	Average	41.84	0.62	42.46	54.00	-11.54
2372.04	Peak	53.57	0.62	54.18	74.00	-19.82
2390.00	Average	46.44	0.60	47.04	54.00	-6.96
2390.00	Peak	60.84	0.60	61.44	74.00	-12.56

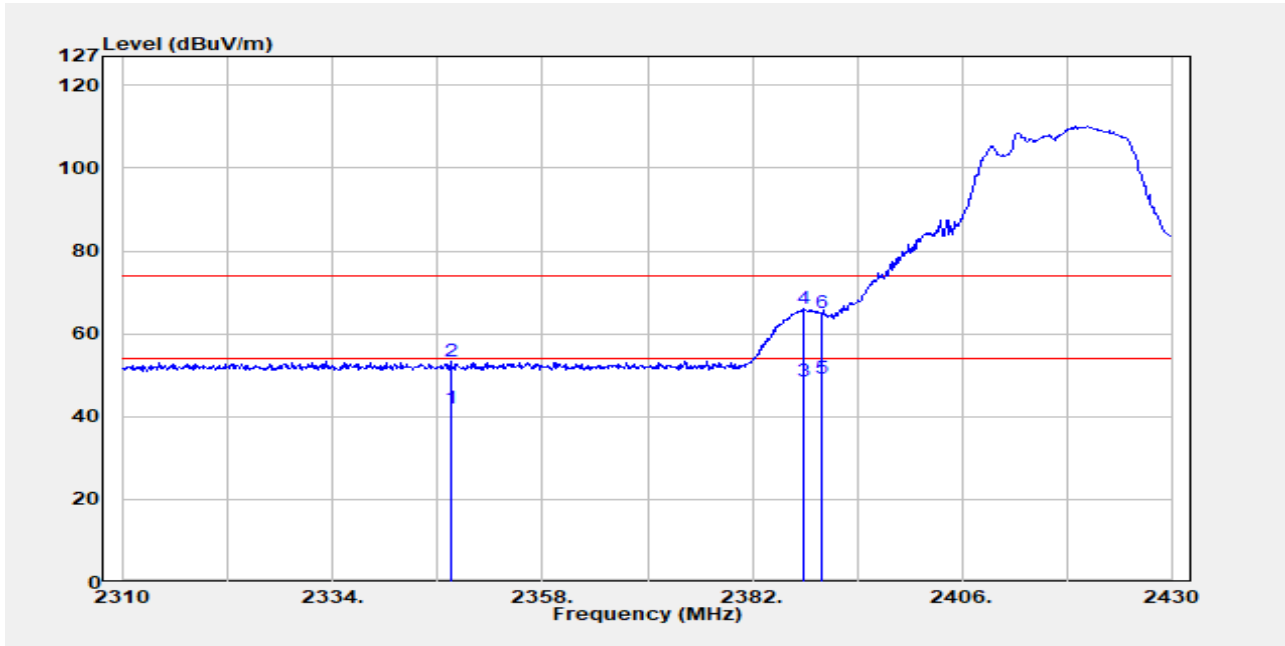
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2347.44	Average	41.52	0.62	42.14	54.00	-11.86
2347.44	Peak	52.84	0.62	53.46	74.00	-20.54
2387.88	Average	47.80	0.60	48.40	54.00	-5.60
2387.88	Peak	65.32	0.60	65.92	74.00	-8.08
2390.00	Average	48.74	0.60	49.34	54.00	-4.66
2390.00	Peak	64.33	0.60	64.93	74.00	-9.07

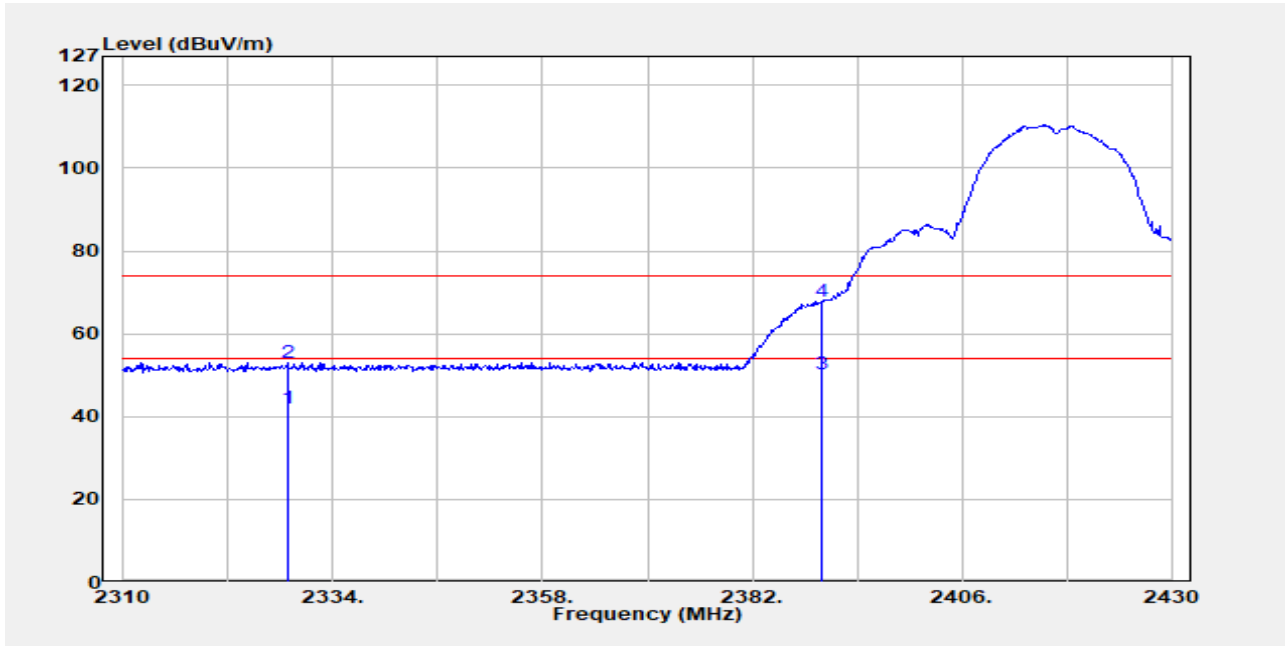
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Report Number :TERF2212002705ER
Operation Mode :802.11n20
Test Frequency :2417 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-03-06
Temp./Humi. :21.0/47
Antenna Pol. :Horizontal
Engineer :GN Lin



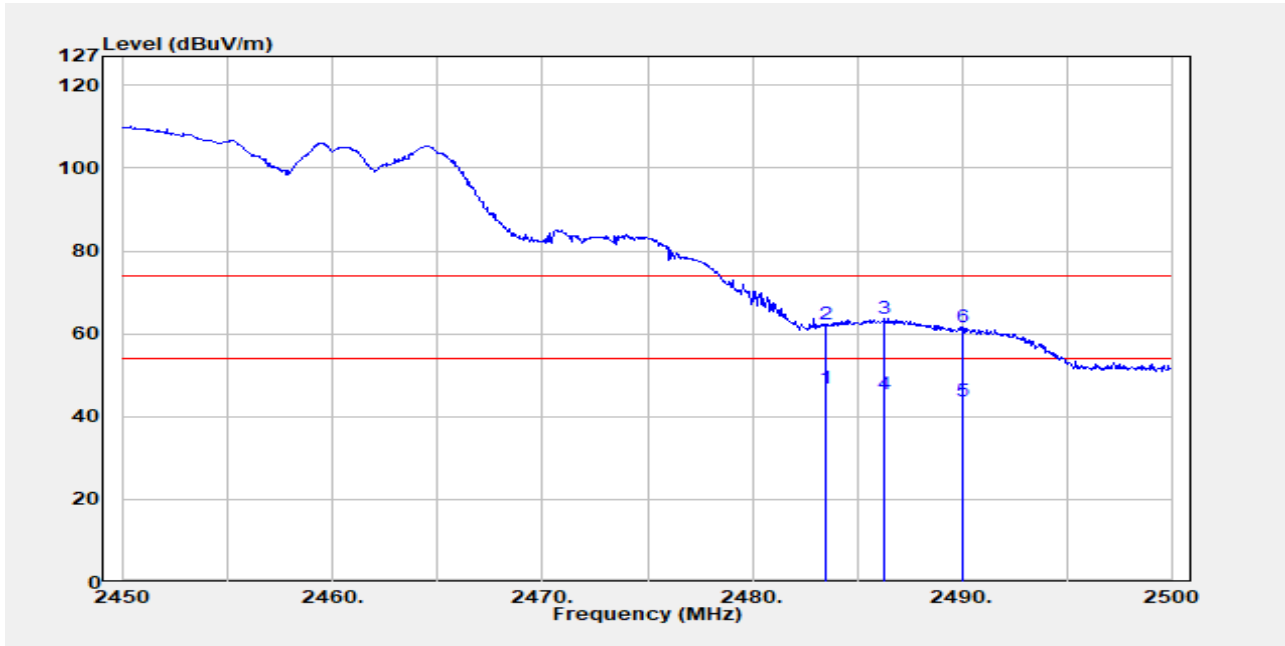
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2328.72	Average	41.50	0.52	42.02	54.00	-11.98
2328.72	Peak	52.57	0.52	53.10	74.00	-20.90
2390.00	Average	49.78	0.60	50.38	54.00	-3.62
2390.00	Peak	67.30	0.60	67.91	74.00	-6.09

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Report Number :TERF2212002705ER
Operation Mode :802.11n20
Test Frequency :2457 MHz
Test Mode :Bandedge
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-03-06
Temp./Humi. :21.0/47
Antenna Pol. :Vertical
Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.76	0.21	46.97	54.00	-7.03
2483.50	Peak	62.21	0.21	62.43	74.00	-11.57
2486.30	Peak	63.40	0.24	63.63	74.00	-10.37
2486.30	Peak	45.16	0.24	45.40	74.00	-28.60
2490.00	Average	43.61	0.27	43.88	54.00	-10.12
2490.00	Peak	61.34	0.27	61.61	74.00	-12.39

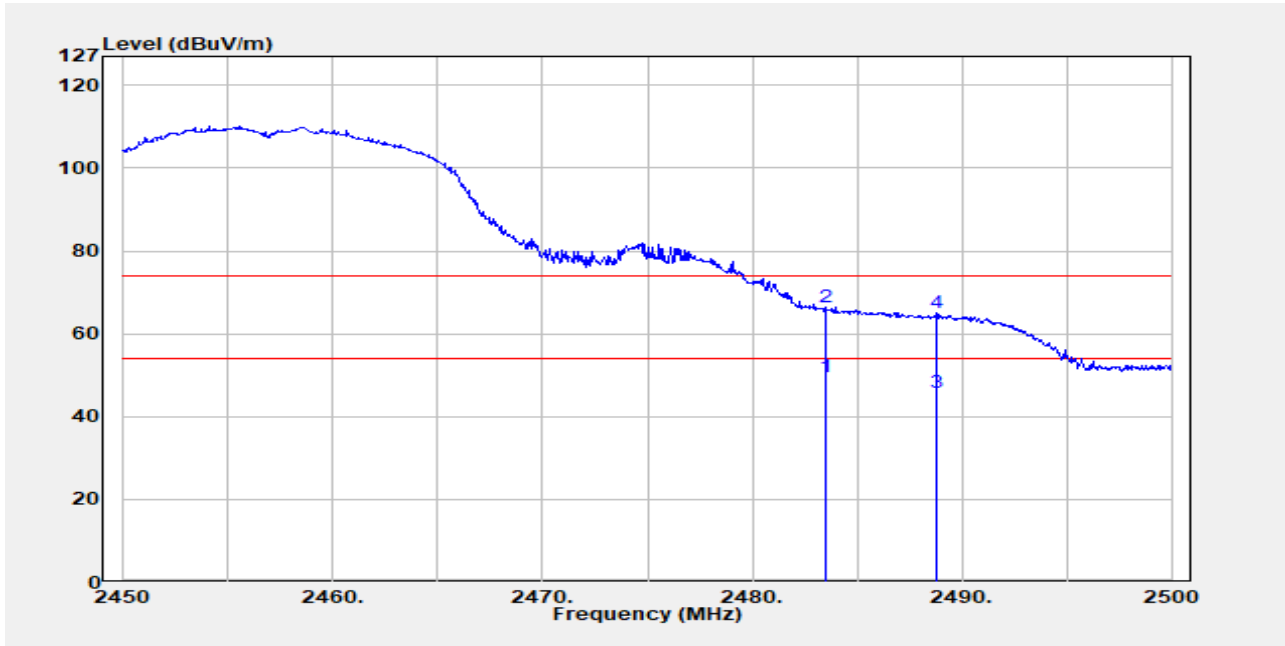
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	49.37	0.21	49.58	54.00	-4.42
2483.50	Peak	66.13	0.21	66.34	74.00	-7.66
2488.75	Average	45.42	0.26	45.68	54.00	-8.32
2488.75	Peak	64.93	0.26	65.19	74.00	-8.81

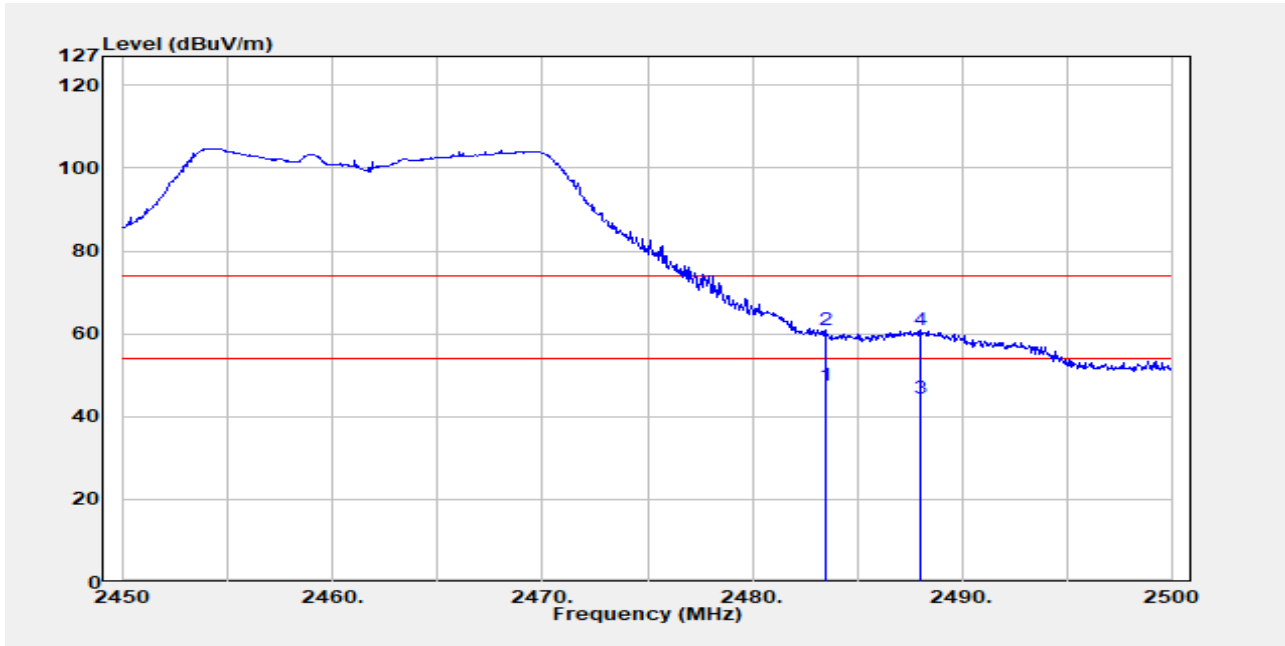
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.35	0.21	47.56	54.00	-6.44
2483.50	Peak	60.57	0.21	60.78	74.00	-13.22
2488.05	Average	44.24	0.25	44.49	54.00	-9.51
2488.05	Peak	60.70	0.25	60.96	74.00	-13.04

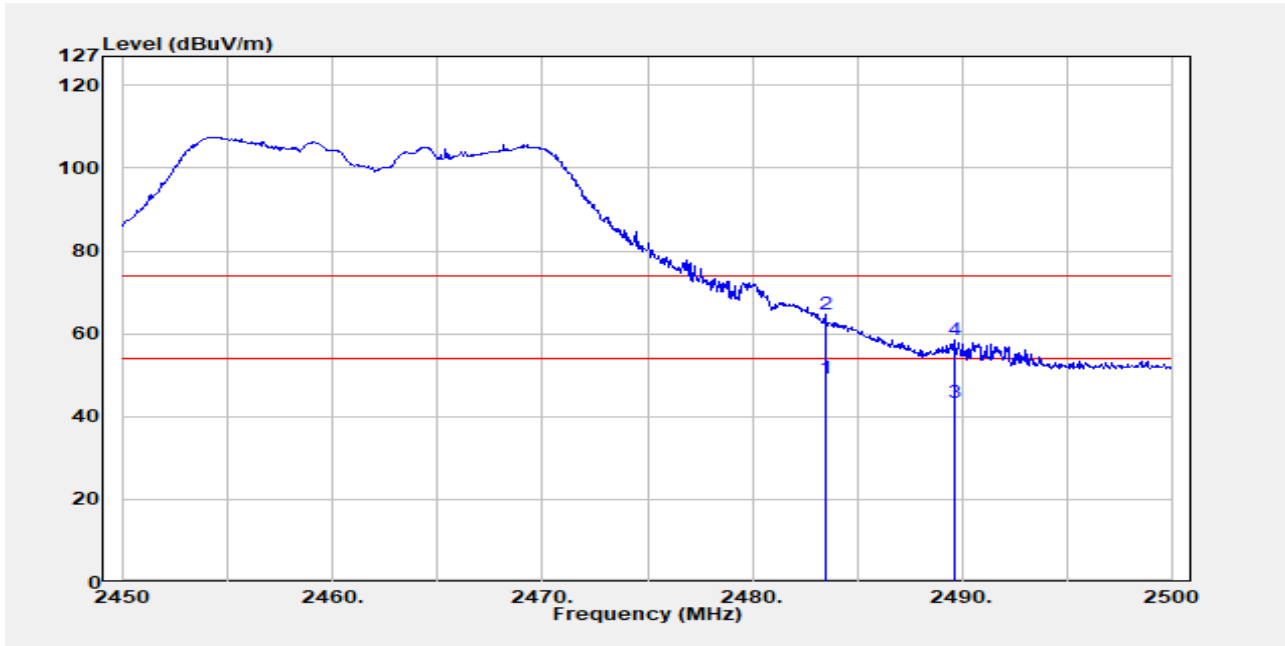
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	49.12	0.21	49.33	54.00	-4.67
2483.50	Peak	64.40	0.21	64.61	74.00	-9.39
2489.70	Average	42.97	0.27	43.24	54.00	-10.76
2489.70	Peak	58.35	0.27	58.62	74.00	-15.38

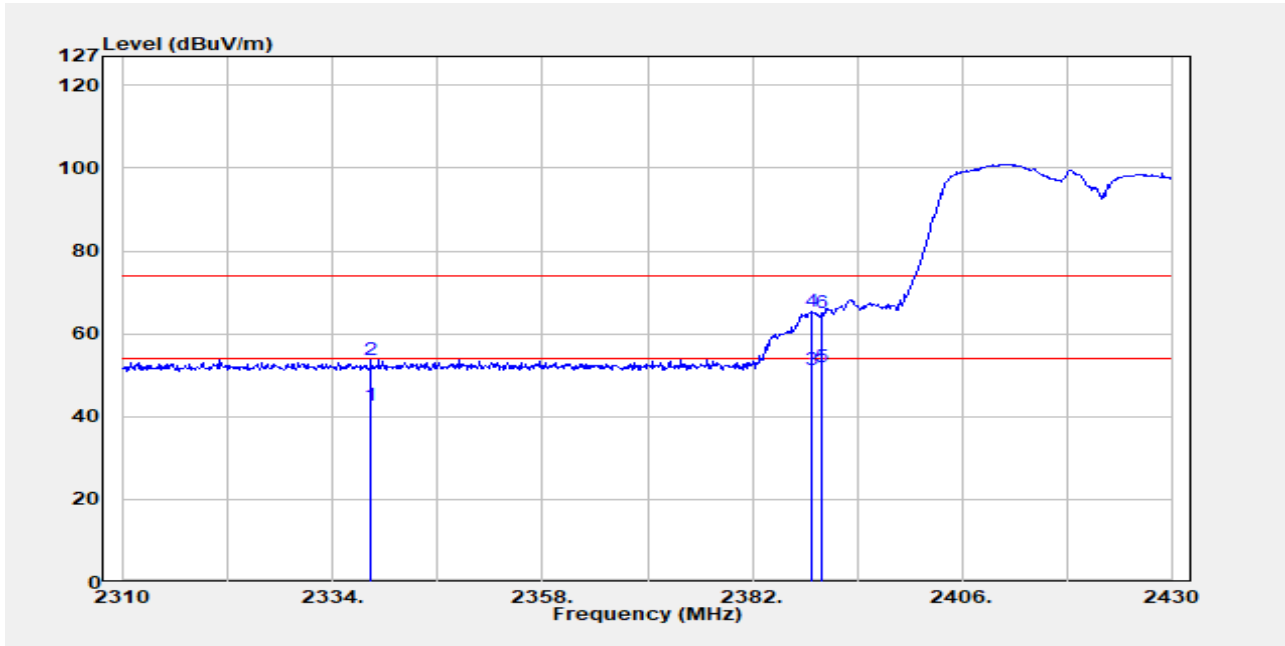
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2338.32	Average	42.04	0.57	42.61	54.00	-11.39
2338.32	Peak	53.17	0.57	53.74	74.00	-20.26
2388.72	Average	50.71	0.60	51.31	54.00	-2.69
2388.72	Peak	64.88	0.60	65.48	74.00	-8.52
2390.00	Average	51.39	0.60	51.99	54.00	-2.01
2390.00	Peak	64.35	0.60	64.95	74.00	-9.05

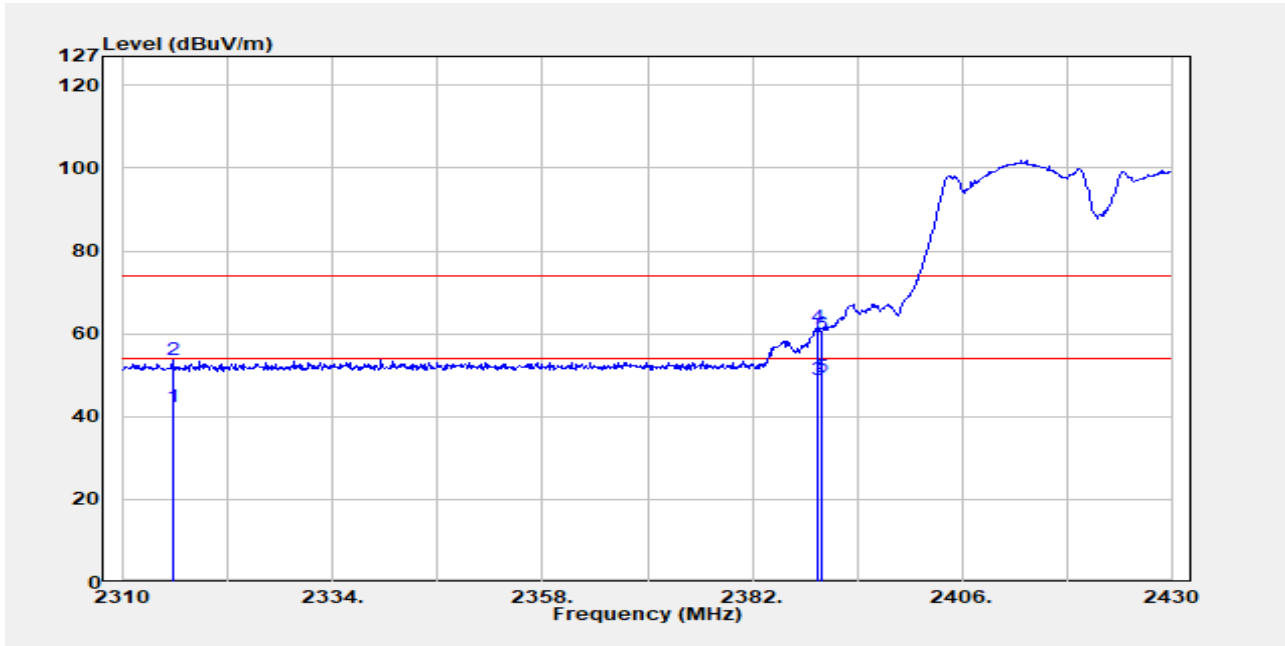
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2315.64	Average	42.03	0.46	42.49	54.00	-11.51
2315.64	Peak	53.21	0.46	53.67	74.00	-20.33
2389.44	Average	48.28	0.60	48.88	54.00	-5.12
2389.44	Peak	61.03	0.60	61.64	74.00	-12.36
2390.00	Average	49.11	0.60	49.71	54.00	-4.29
2390.00	Peak	59.28	0.60	59.89	74.00	-14.11

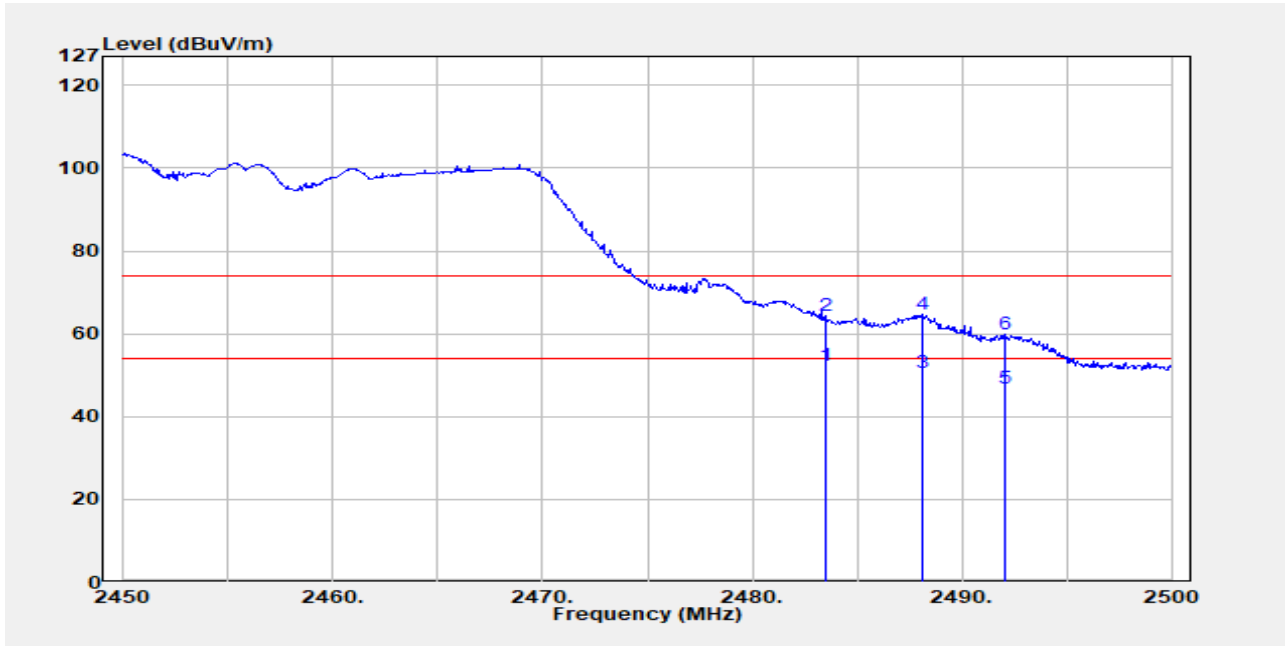
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	52.14	0.21	52.35	54.00	-1.65
2483.50	Peak	64.30	0.21	64.51	74.00	-9.49
2488.15	Average	50.51	0.26	50.77	54.00	-3.23
2488.15	Peak	64.37	0.26	64.63	74.00	-9.37
2492.05	Average	46.47	0.29	46.76	54.00	-7.24
2492.05	Peak	59.64	0.29	59.93	74.00	-14.07

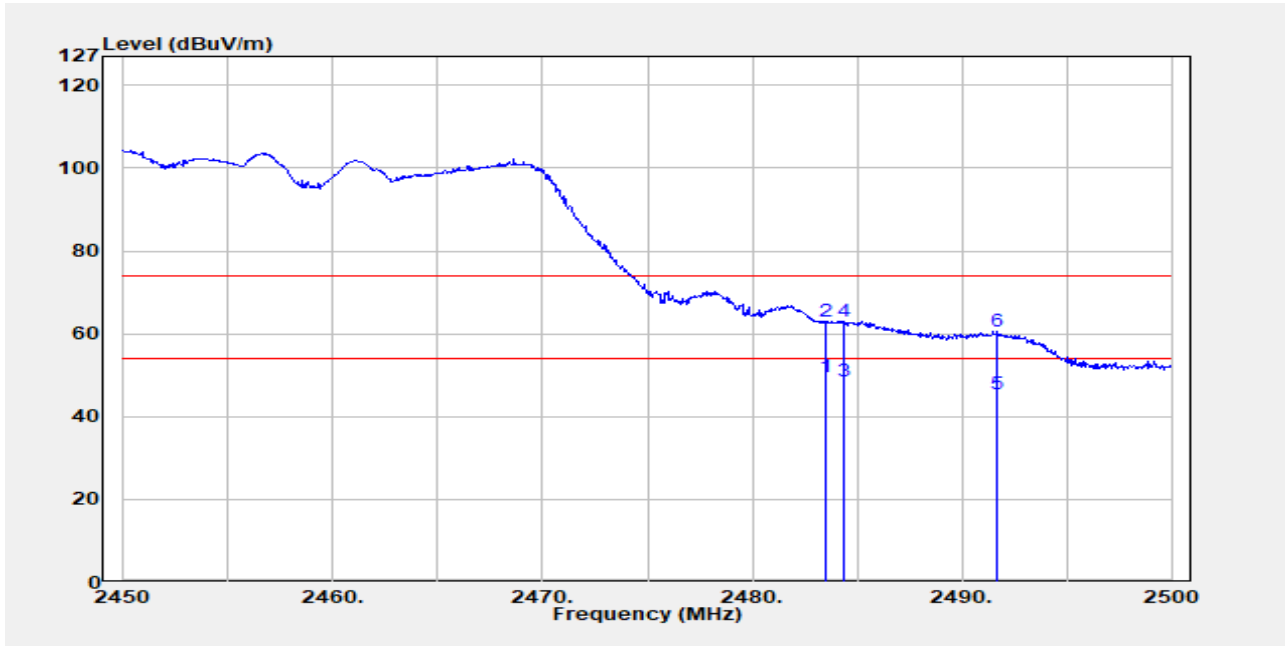
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	49.39	0.21	49.60	54.00	-4.40
2483.50	Peak	62.85	0.21	63.07	74.00	-10.93
2484.40	Average	48.28	0.22	48.50	54.00	-5.50
2484.40	Peak	62.92	0.22	63.14	74.00	-10.86
2491.70	Average	45.27	0.29	45.56	54.00	-8.44
2491.70	Peak	60.21	0.29	60.50	74.00	-13.50

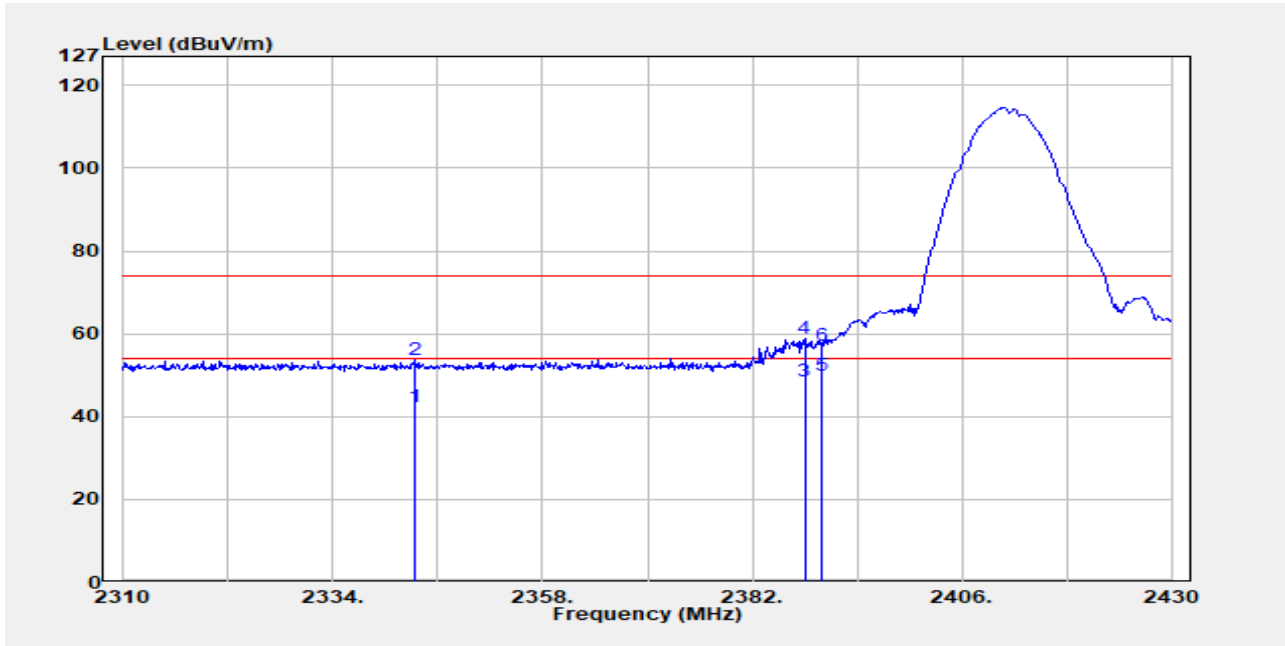
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External Antenna (Type: Dipole antenna, Model no: WTS 2450)

Report Number	:TERF2212002705ER	Test Site	:SAC 1
Operation Mode	:802.11b	Test Date	:2023-02-10
Test Frequency	:2412 MHz	Temp./Humi.	:23.9/59
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:GN Lin



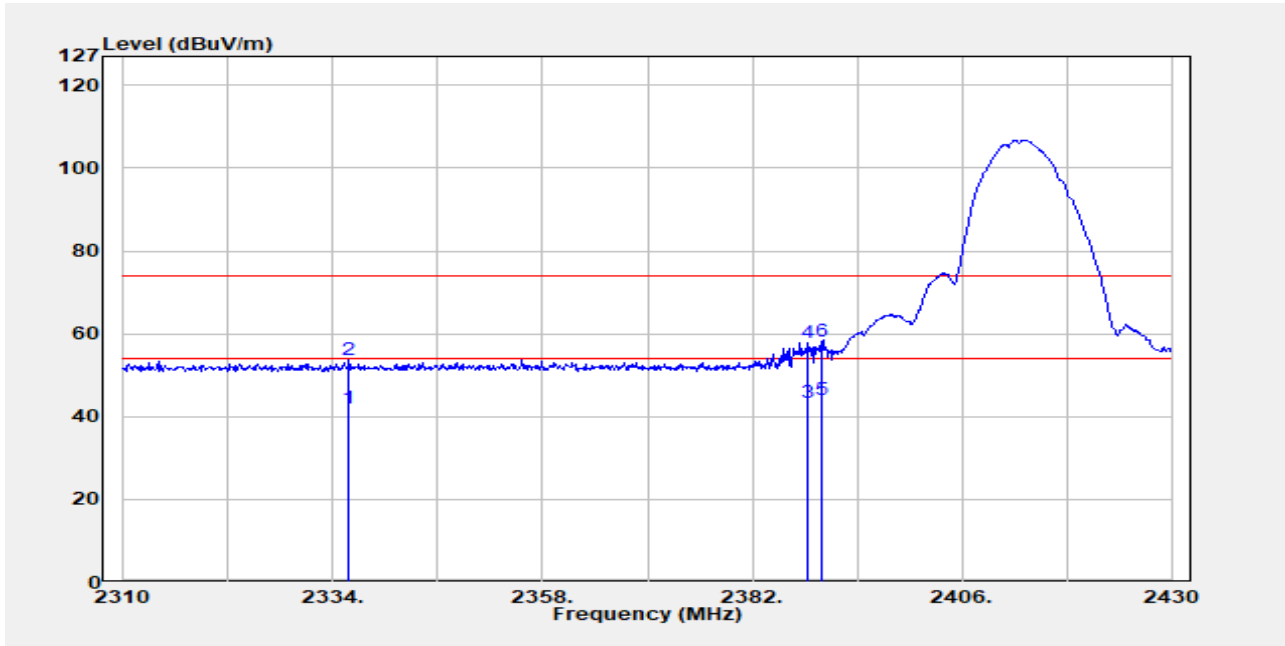
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2343.36	Average	41.62	0.60	42.22	54.00	-11.78
2343.36	Peak	52.93	0.60	53.53	74.00	-20.47
2388.00	Average	47.78	0.60	48.38	54.00	-5.62
2388.00	Peak	58.33	0.60	58.93	74.00	-15.07
2390.00	Average	49.31	0.60	49.91	54.00	-4.09
2390.00	Peak	56.67	0.60	57.27	74.00	-16.73

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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2335.80	Average	41.54	0.56	42.10	54.00	-11.90
2335.80	Peak	53.10	0.56	53.66	74.00	-20.34
2388.36	Average	42.84	0.60	43.44	54.00	-10.56
2388.36	Peak	57.29	0.60	57.89	74.00	-16.11
2390.00	Average	43.31	0.60	43.91	54.00	-10.09
2390.00	Peak	57.71	0.60	58.31	74.00	-15.69

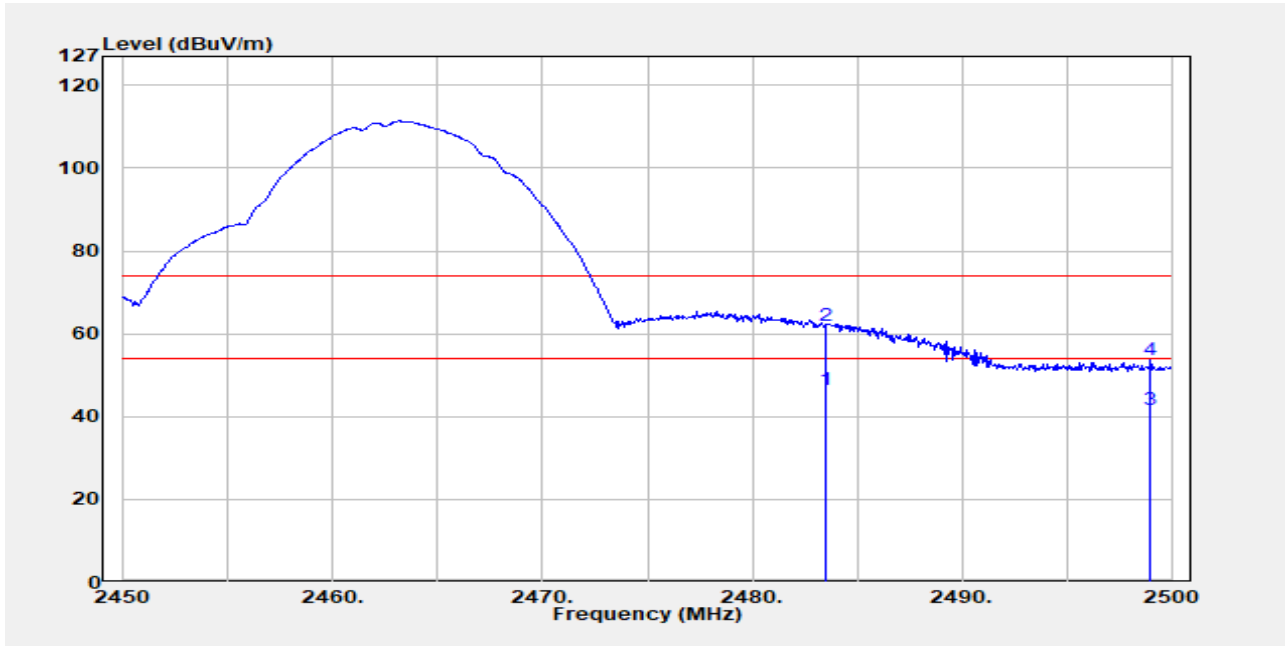
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



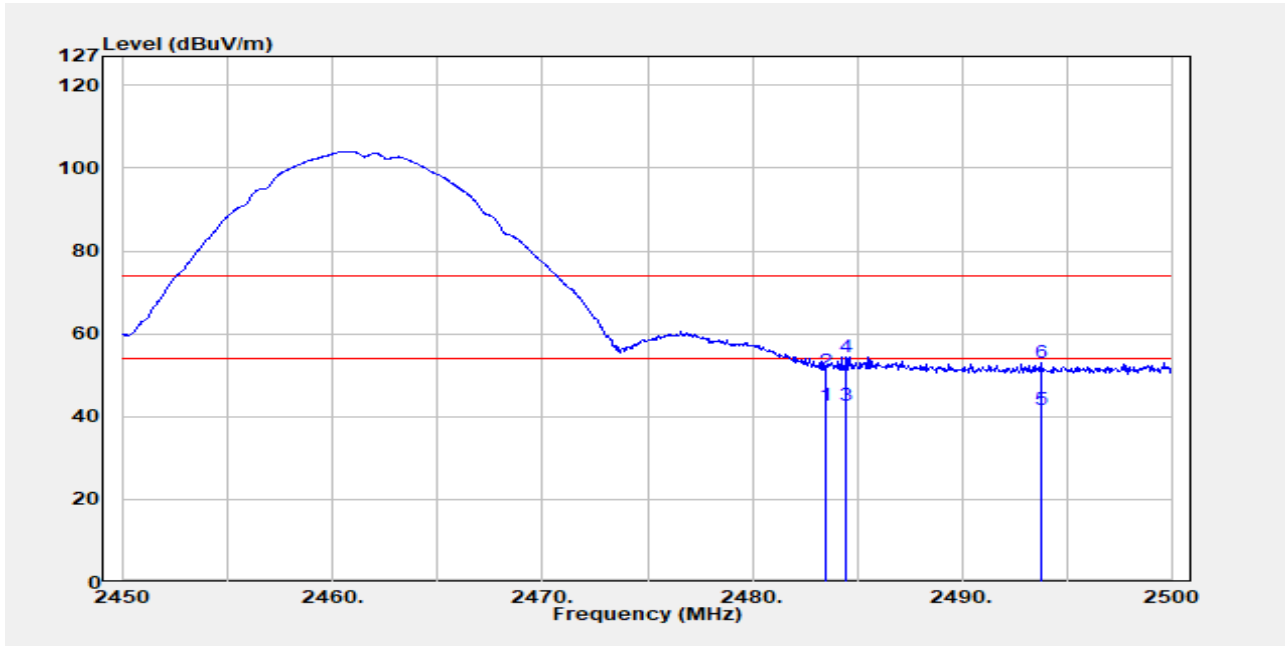
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	46.17	0.21	46.38	54.00	-7.62
2483.50	Peak	61.70	0.21	61.91	74.00	-12.09
2499.00	Average	41.39	0.35	41.74	54.00	-12.26
2499.00	Peak	53.29	0.35	53.64	74.00	-20.36

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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



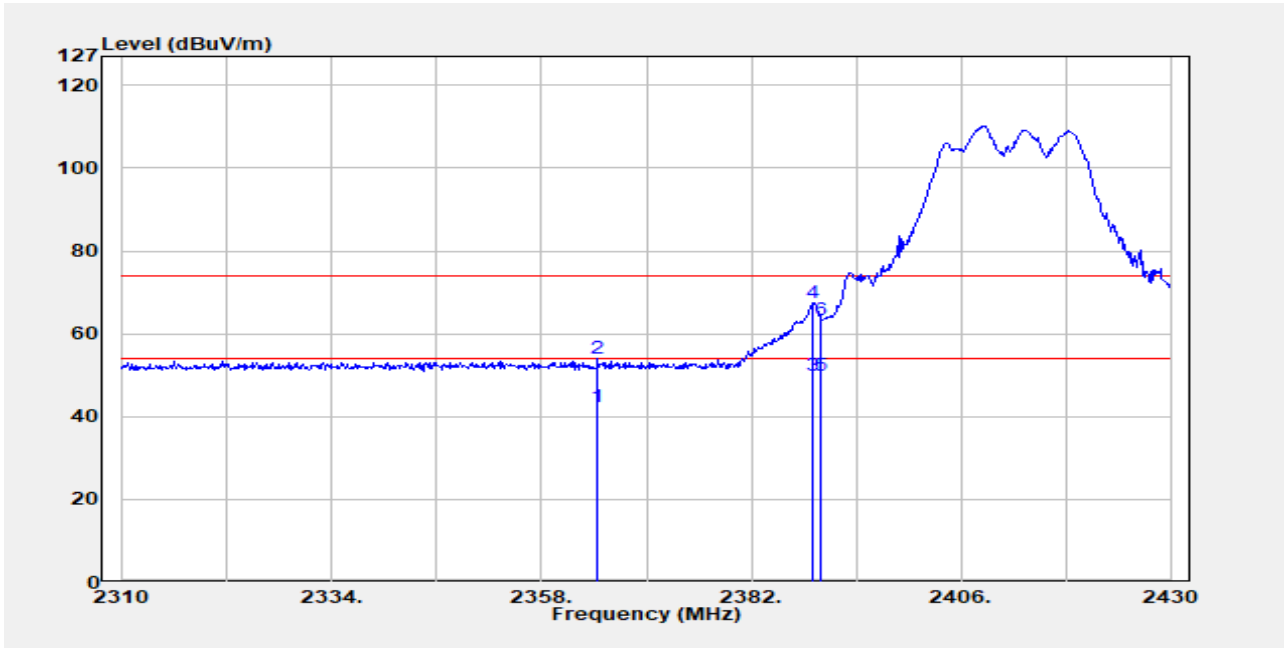
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	42.47	0.21	42.68	54.00	-11.32
2483.50	Peak	50.70	0.21	50.92	74.00	-23.08
2484.50	Average	42.56	0.22	42.78	54.00	-11.22
2484.50	Peak	54.22	0.22	54.44	74.00	-19.56
2493.75	Average	41.40	0.31	41.71	54.00	-12.29
2493.75	Peak	52.54	0.31	52.85	74.00	-21.15

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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2364.36	Average	41.76	0.62	42.38	54.00	-11.62
2364.36	Peak	53.39	0.62	54.01	74.00	-19.99
2389.08	Average	49.19	0.60	49.79	54.00	-4.21
2389.08	Peak	66.93	0.60	67.53	74.00	-6.47
2390.00	Average	49.38	0.60	49.98	54.00	-4.02
2390.00	Peak	62.81	0.60	63.41	74.00	-10.59

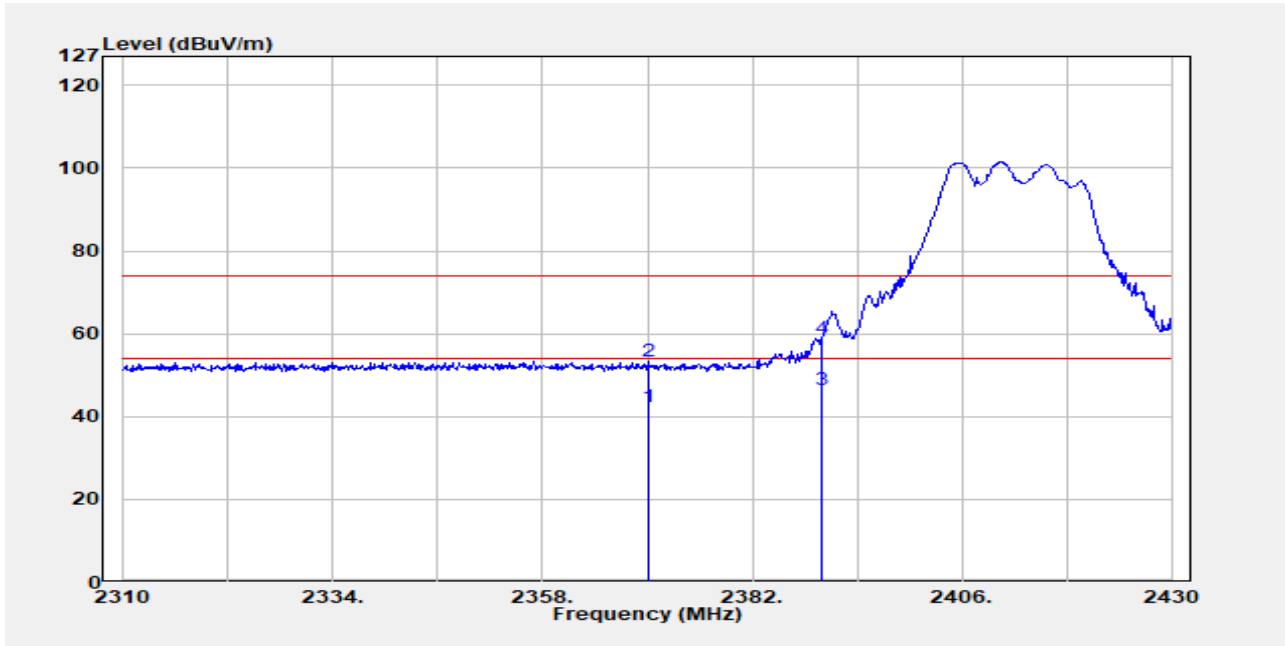
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2370.12	Average	41.73	0.62	42.35	54.00	-11.65
2370.12	Peak	52.73	0.62	53.35	74.00	-20.65
2390.00	Average	45.98	0.60	46.58	54.00	-7.42
2390.00	Peak	58.14	0.60	58.75	74.00	-15.25

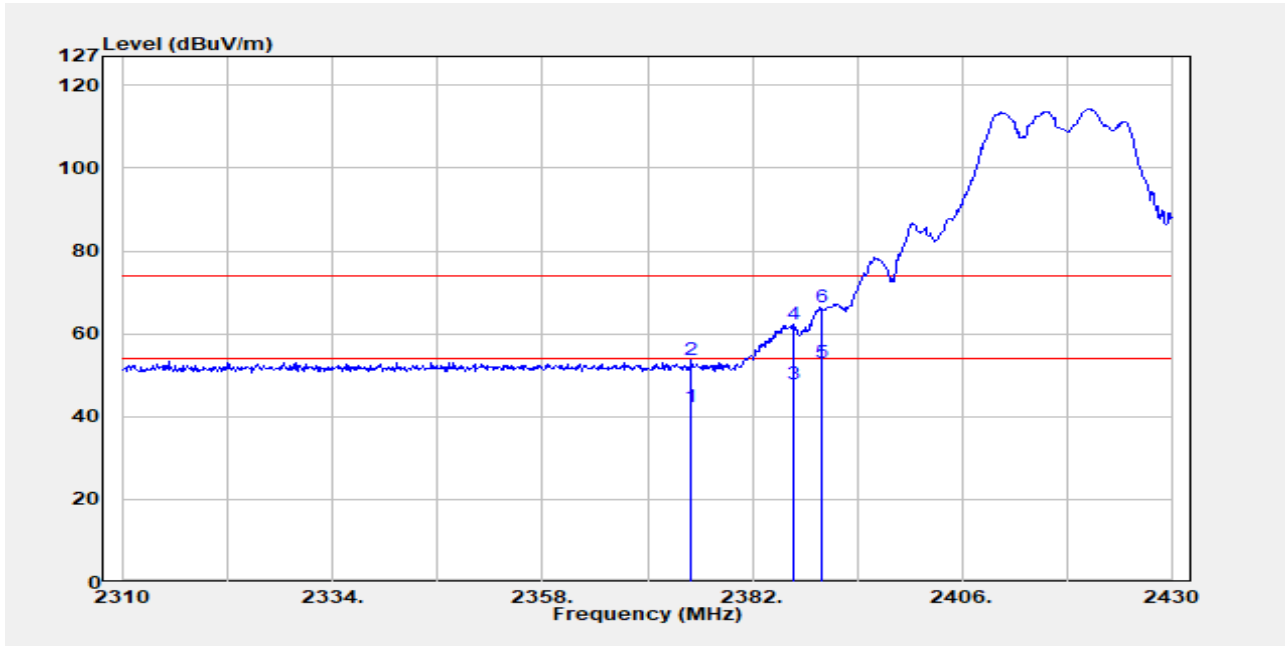
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2375.04	Average	41.59	0.61	42.20	54.00	-11.80
2375.04	Peak	52.96	0.61	53.58	74.00	-20.42
2386.80	Average	47.32	0.61	47.93	54.00	-6.07
2386.80	Peak	61.67	0.61	62.27	74.00	-11.73
2390.00	Average	52.35	0.60	52.95	54.00	-1.05
2390.00	Peak	65.78	0.60	66.38	74.00	-7.62

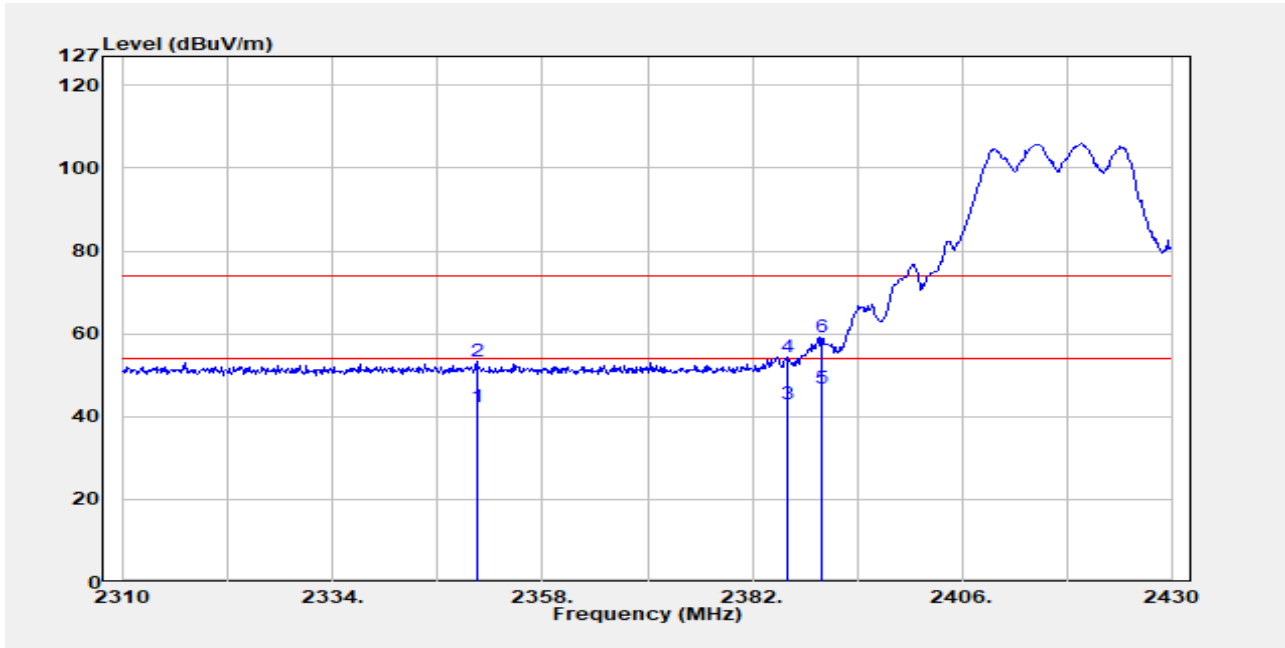
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2350.44	Average	41.61	0.63	42.24	54.00	-11.76
2350.44	Peak	52.81	0.63	53.44	74.00	-20.56
2386.08	Average	42.36	0.61	42.97	54.00	-11.03
2386.08	Peak	53.79	0.61	54.39	74.00	-19.61
2390.00	Average	46.17	0.60	46.77	54.00	-7.23
2390.00	Peak	58.52	0.60	59.13	74.00	-14.87

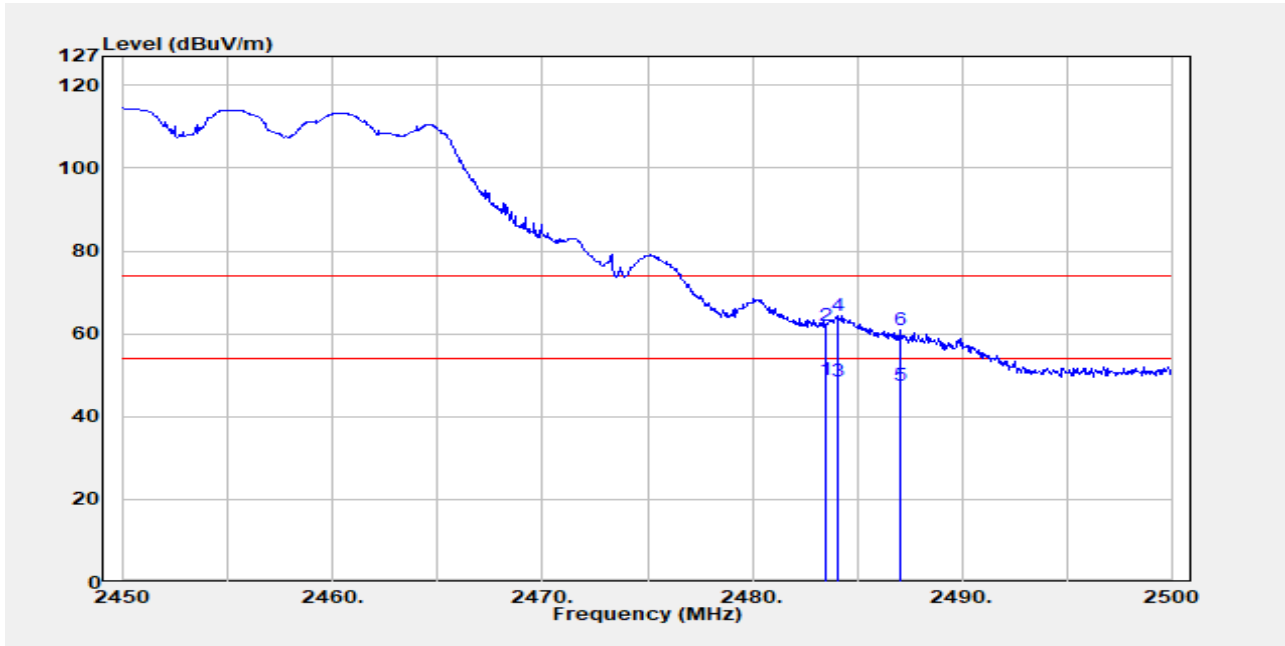
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



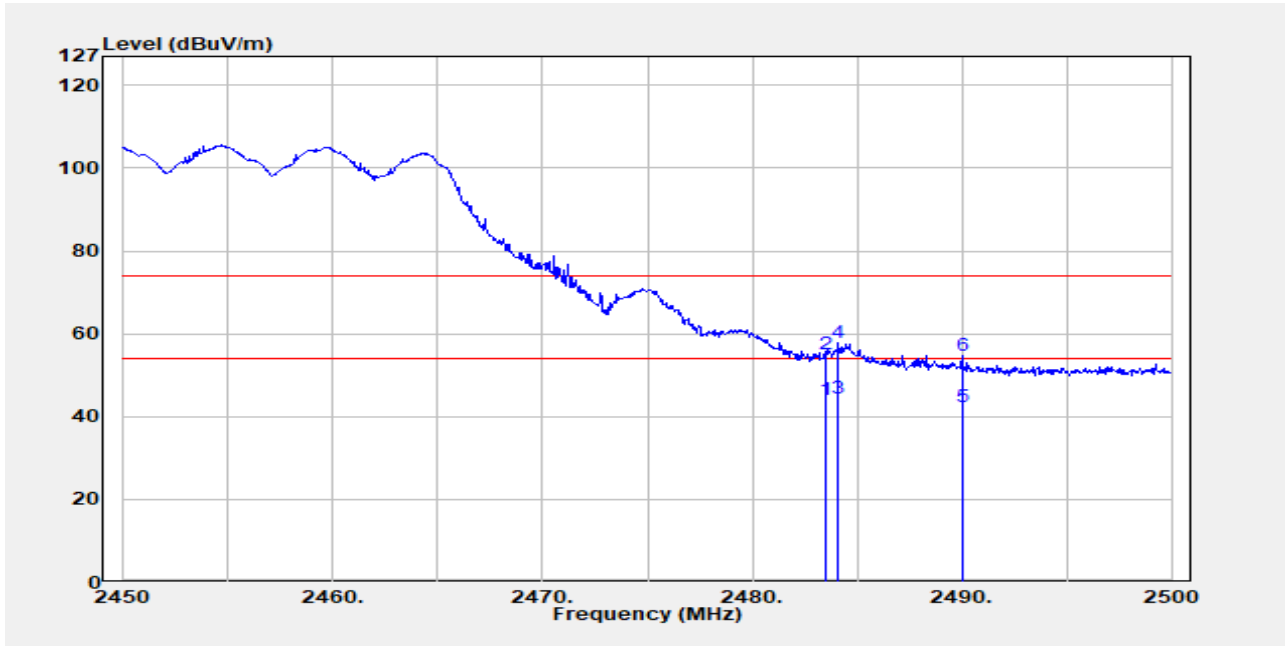
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	48.57	0.21	48.78	54.00	-5.22
2483.50	Peak	61.76	0.21	61.98	74.00	-12.02
2484.10	Average	48.44	0.22	48.66	54.00	-5.34
2484.10	Peak	64.25	0.22	64.47	74.00	-9.53
2487.05	Average	47.35	0.25	47.60	54.00	-6.40
2487.05	Peak	60.54	0.25	60.79	74.00	-13.21

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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.68	0.21	43.89	54.00	-10.11
2483.50	Peak	54.72	0.21	54.94	74.00	-19.06
2484.10	Average	44.03	0.22	44.25	54.00	-9.75
2484.10	Peak	57.60	0.22	57.82	74.00	-16.18
2490.00	Average	42.13	0.27	42.40	54.00	-11.60
2490.00	Peak	54.48	0.27	54.76	74.00	-19.24

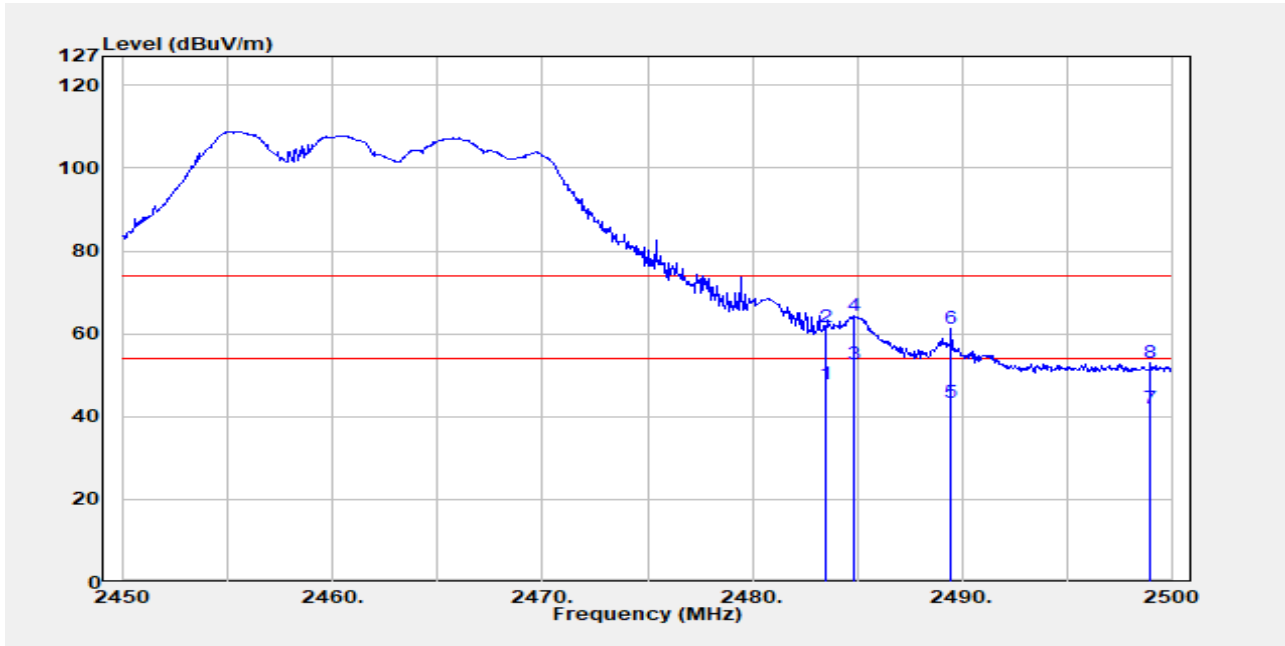
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	47.47	0.21	47.68	54.00	-6.32
2483.50	Peak	61.27	0.21	61.48	74.00	-12.52
2484.90	Average	52.57	0.23	52.80	54.00	-1.20
2484.90	Peak	64.13	0.23	64.36	74.00	-9.64
2489.50	Average	43.05	0.27	43.32	54.00	-10.68
2489.50	Peak	61.16	0.27	61.43	74.00	-12.57
2499.00	Average	41.57	0.35	41.92	54.00	-12.08
2499.00	Peak	52.50	0.35	52.86	74.00	-21.14

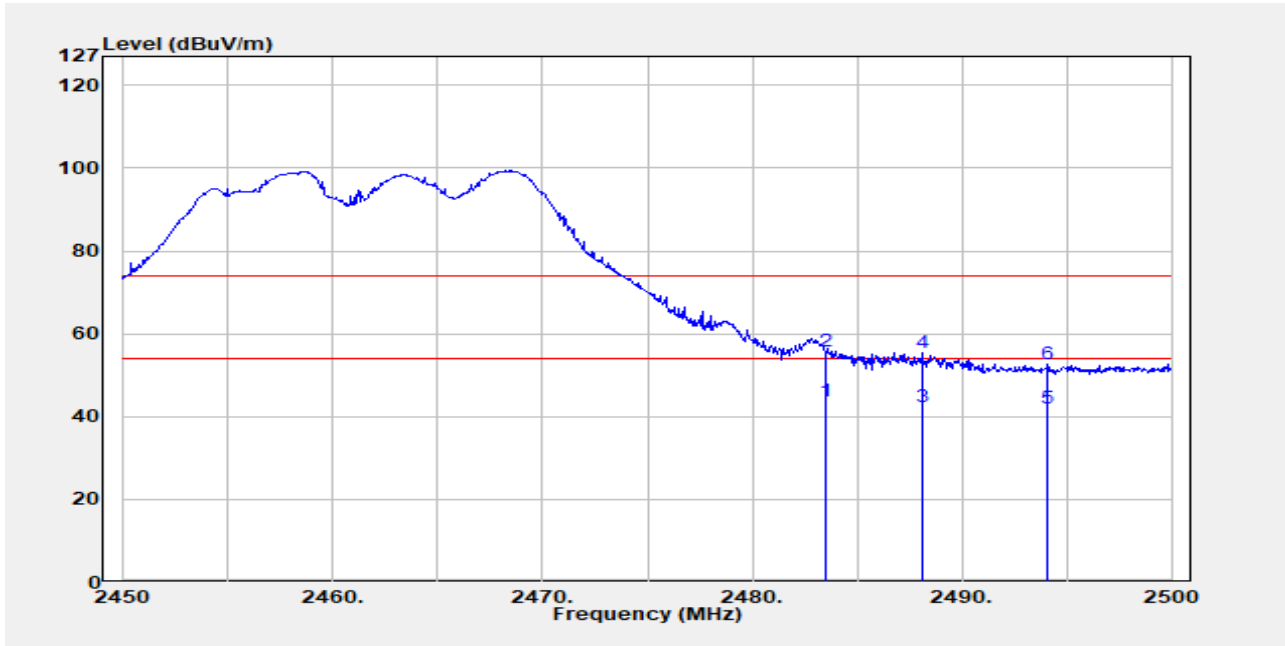
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	43.35	0.21	43.56	54.00	-10.44
2483.50	Peak	55.61	0.21	55.82	74.00	-18.18
2488.10	Average	41.94	0.25	42.19	54.00	-11.81
2488.10	Peak	55.27	0.25	55.53	74.00	-18.47
2494.10	Average	41.51	0.31	41.82	54.00	-12.18
2494.10	Peak	52.24	0.31	52.55	74.00	-21.45

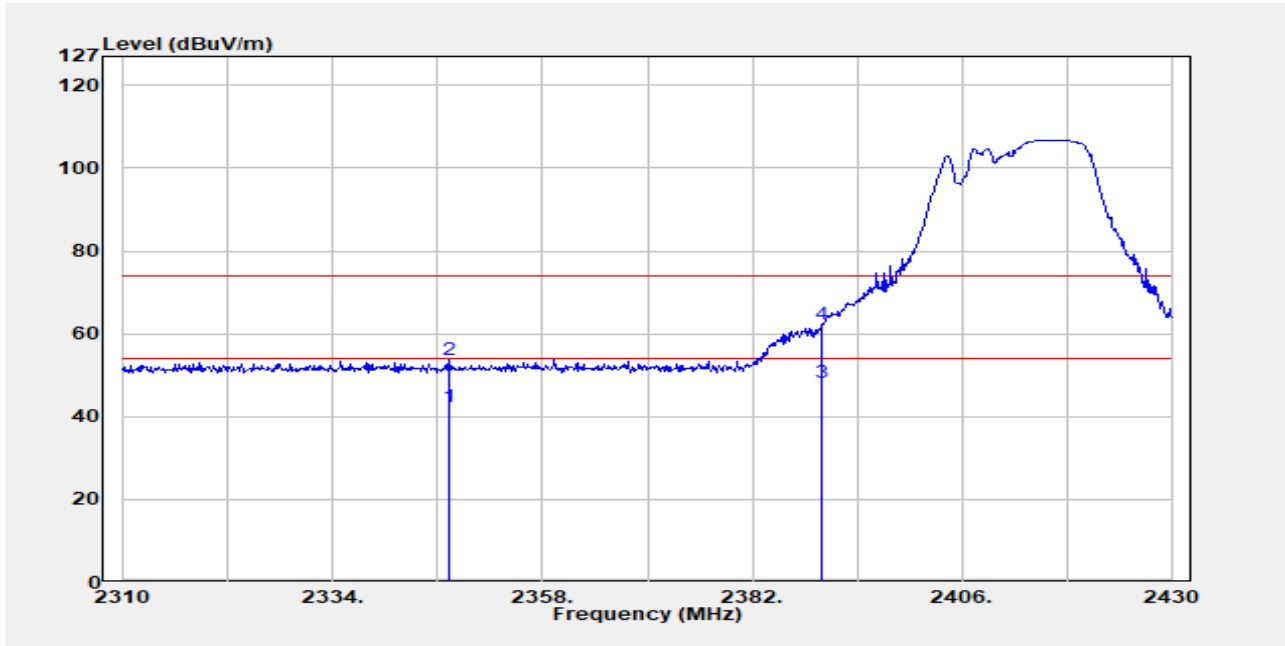
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2347.20	Average	41.78	0.62	42.40	54.00	-11.60
2347.20	Peak	53.13	0.62	53.75	74.00	-20.25
2390.00	Average	47.65	0.60	48.25	54.00	-5.75
2390.00	Peak	61.78	0.60	62.39	74.00	-11.61

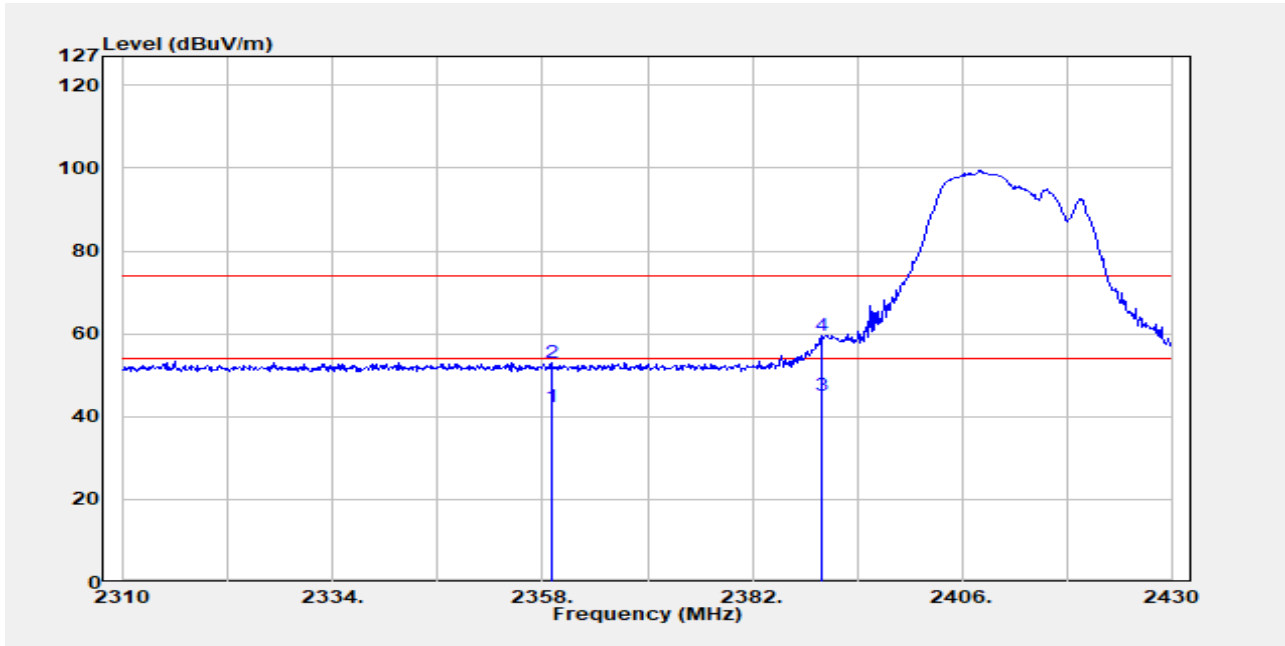
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2359.08	Average	41.70	0.63	42.33	54.00	-11.67
2359.08	Peak	52.43	0.63	53.05	74.00	-20.95
2390.00	Average	44.36	0.60	44.96	54.00	-9.04
2390.00	Peak	58.81	0.60	59.41	74.00	-14.59

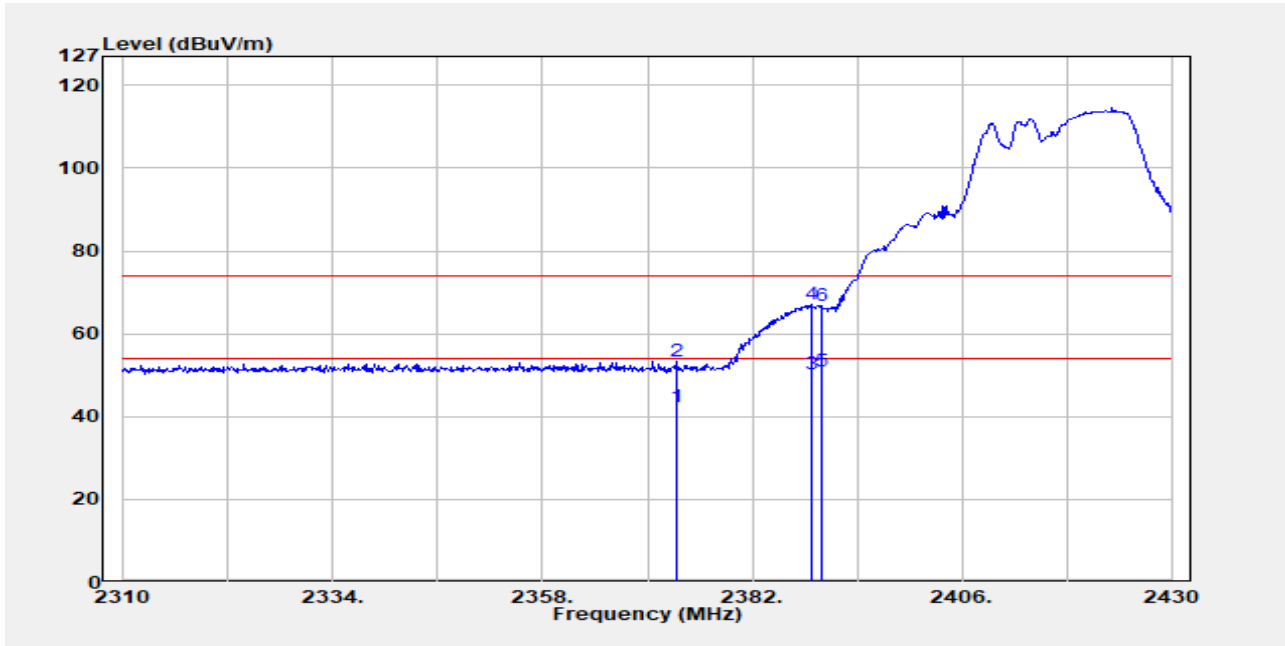
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



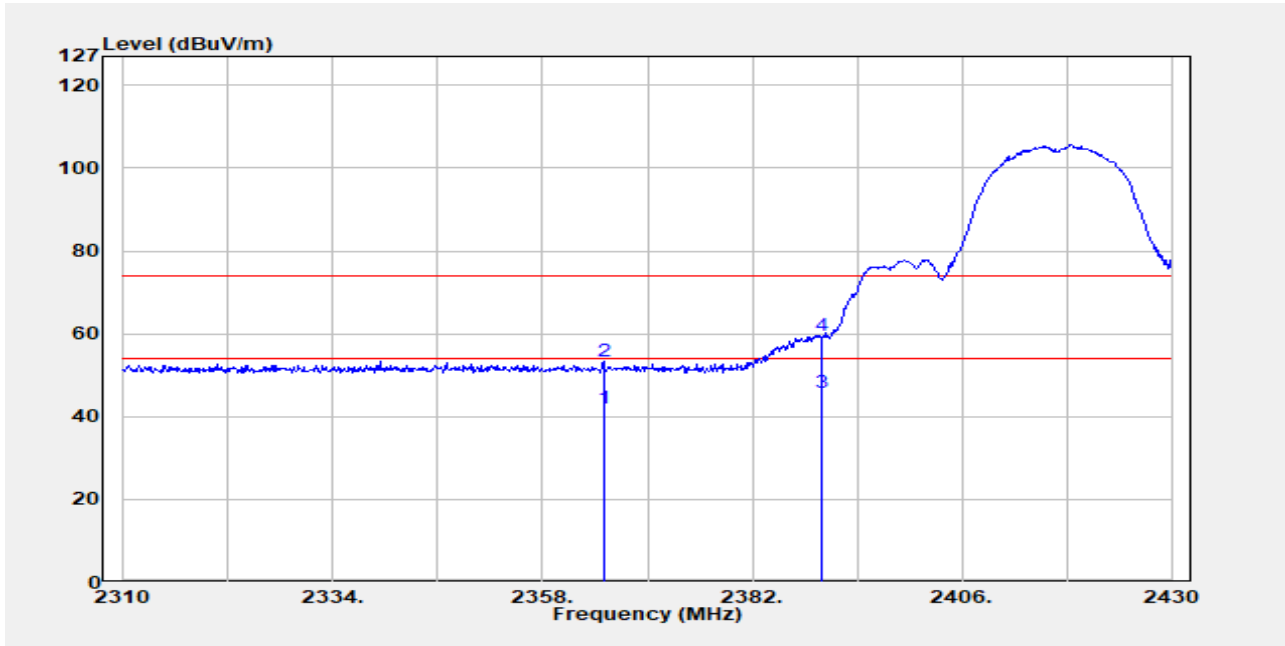
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2373.24	Average	41.57	0.62	42.19	54.00	-11.81
2373.24	Peak	52.78	0.62	53.39	74.00	-20.61
2388.84	Average	49.59	0.60	50.19	54.00	-3.81
2388.84	Peak	66.40	0.60	67.00	74.00	-7.00
2390.04	Average	50.43	0.60	51.03	54.00	-2.97
2390.04	Peak	66.07	0.60	66.67	74.00	-7.33

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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2364.96	Average	41.44	0.62	42.06	54.00	-11.94
2364.96	Peak	52.85	0.62	53.47	74.00	-20.53
2390.00	Average	45.26	0.60	45.86	54.00	-8.14
2390.00	Peak	59.00	0.60	59.60	74.00	-14.40

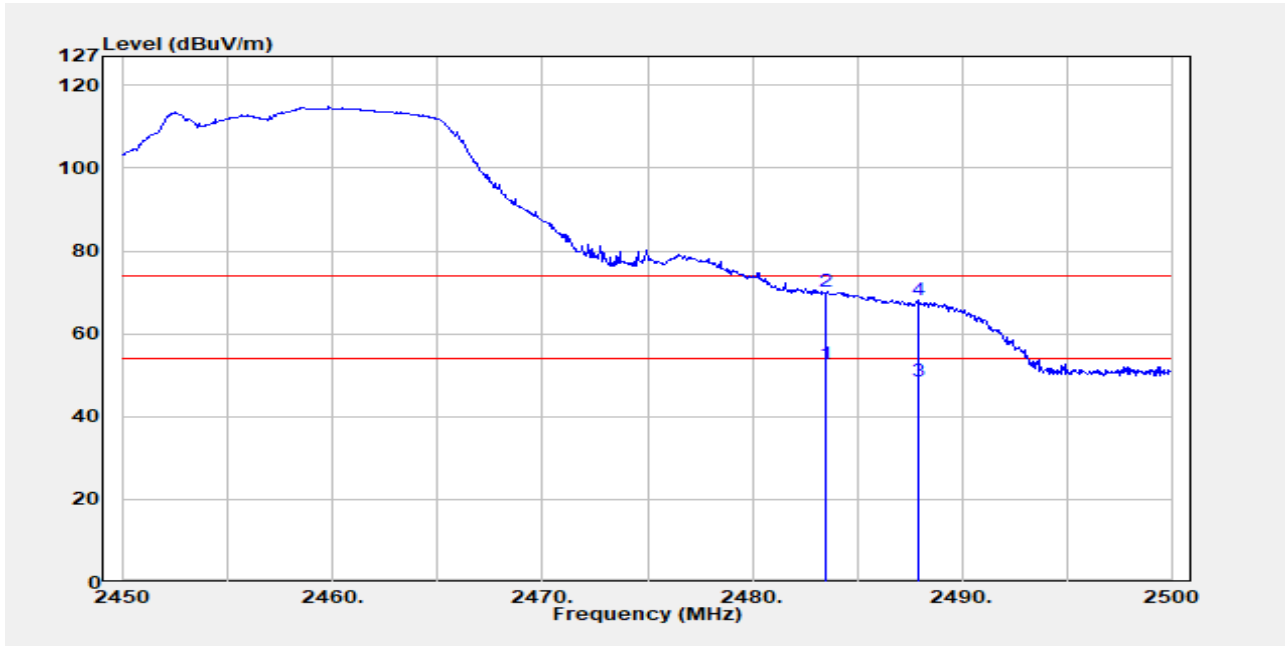
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Vertical
 Engineer :GN Lin



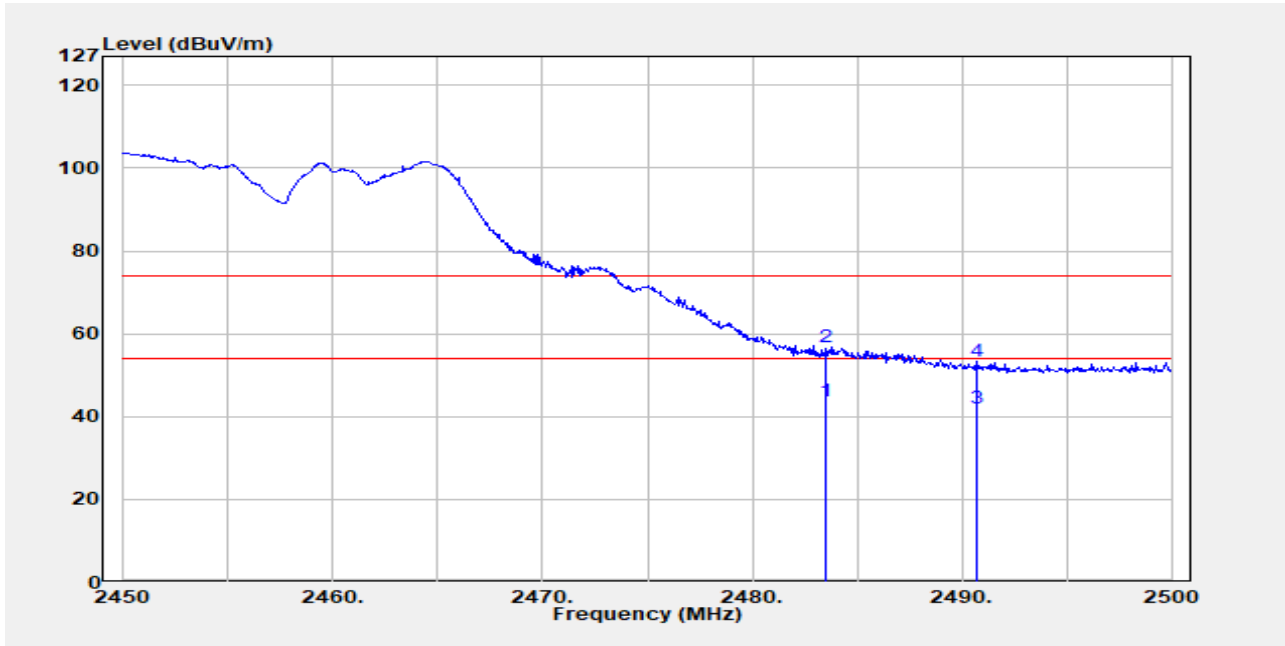
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	52.61	0.21	52.82	54.00	-1.18
2483.50	Peak	69.89	0.21	70.10	74.00	-3.90
2487.90	Average	48.19	0.25	48.44	54.00	-5.56
2487.90	Peak	67.73	0.25	67.99	74.00	-6.01

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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-03-06
 Temp./Humi. :21.0/47
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
2483.50	Average	43.33	0.21	43.54	54.00	-10.46
2483.50	Peak	56.69	0.21	56.91	74.00	-17.09
2490.75	Average	41.71	0.28	41.99	54.00	-12.01
2490.75	Peak	53.00	0.28	53.28	74.00	-20.72

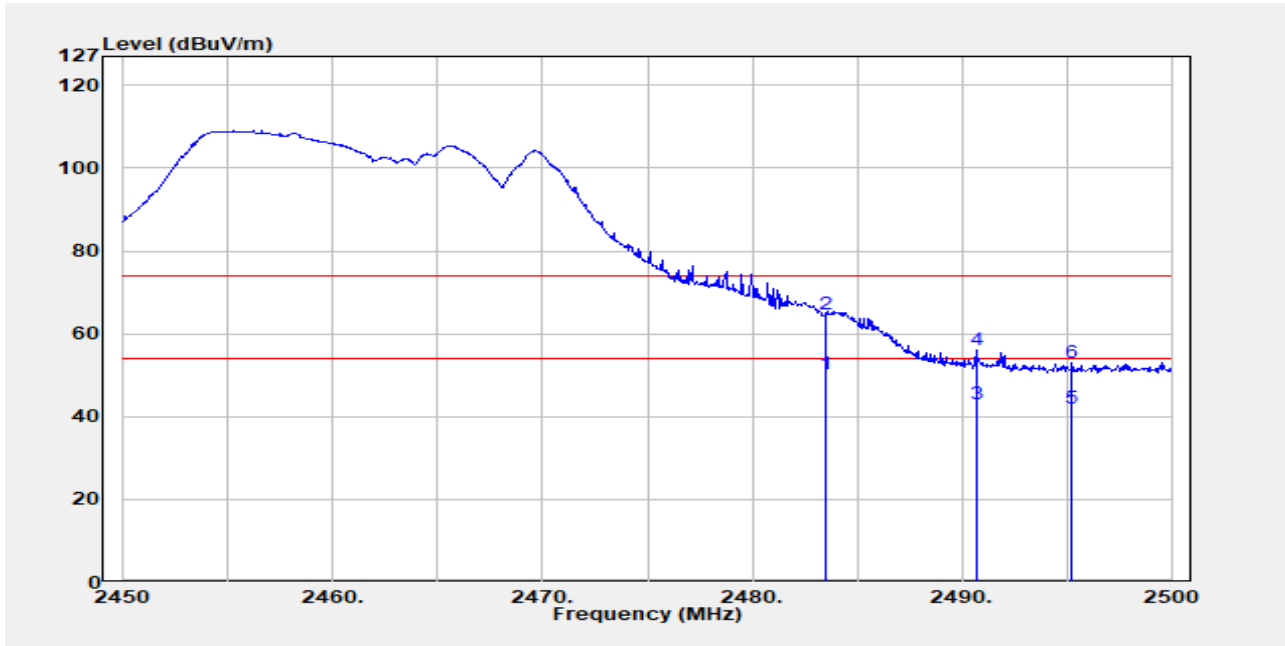
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	50.19	0.21	50.40	54.00	-3.60
2483.50	Peak	64.53	0.21	64.74	74.00	-9.26
2490.70	Average	42.88	0.28	43.16	54.00	-10.84
2490.70	Peak	55.76	0.28	56.04	74.00	-17.96
2495.25	Average	41.64	0.32	41.96	54.00	-12.04
2495.25	Peak	52.80	0.32	53.12	74.00	-20.88

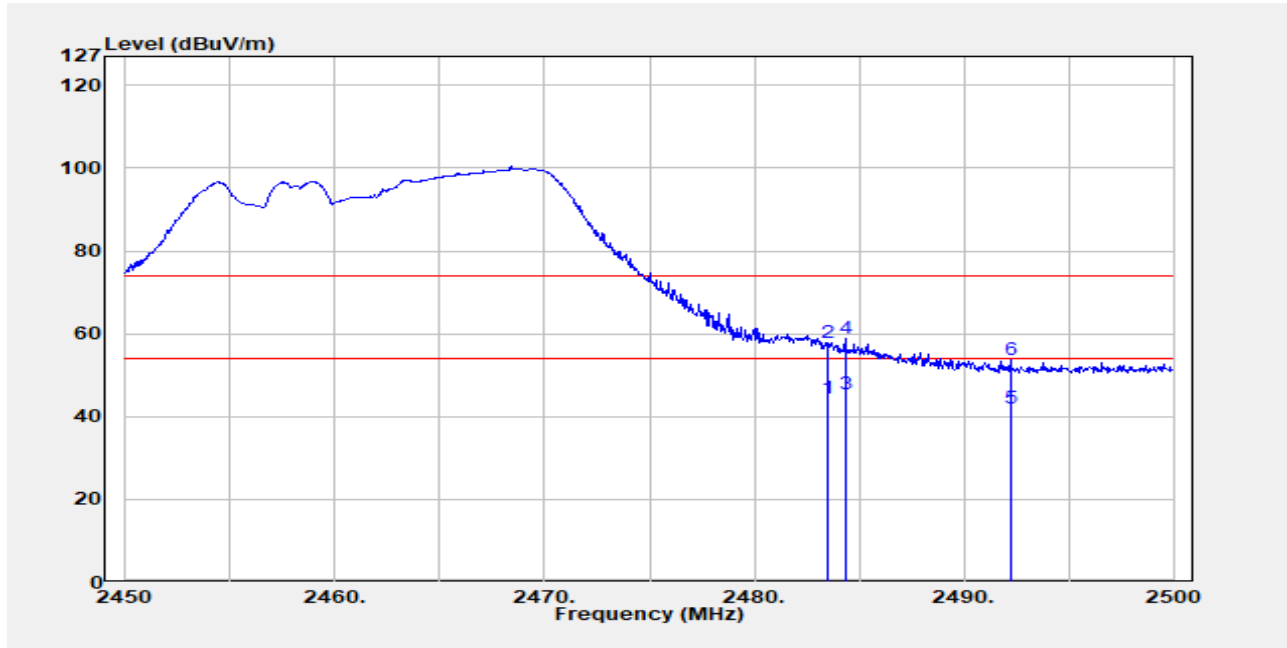
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.22	0.21	44.43	54.00	-9.57
2483.50	Peak	57.53	0.21	57.74	74.00	-16.26
2484.35	Average	45.26	0.22	45.48	54.00	-8.52
2484.35	Peak	58.66	0.22	58.88	74.00	-15.12
2492.25	Average	41.60	0.29	41.89	54.00	-12.11
2492.25	Peak	53.50	0.29	53.80	74.00	-20.20

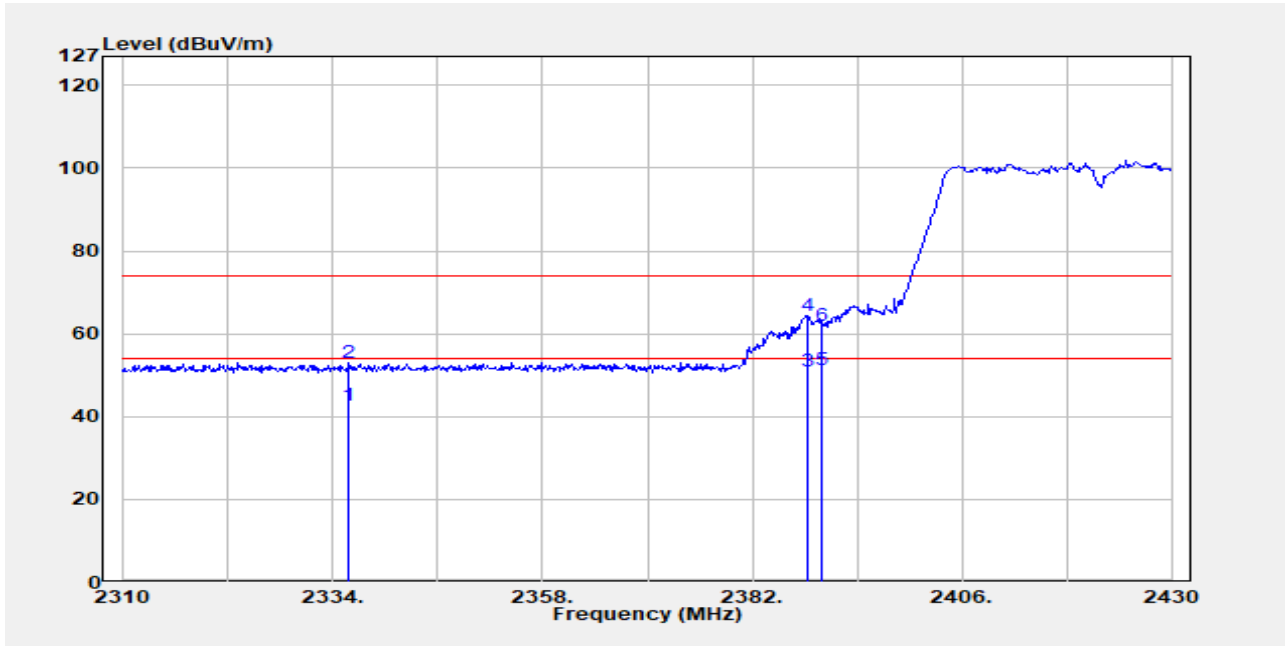
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2335.80	Average	41.96	0.56	42.52	54.00	-11.48
2335.80	Peak	52.59	0.56	53.15	74.00	-20.85
2388.24	Average	50.42	0.60	51.02	54.00	-2.98
2388.24	Peak	63.89	0.60	64.50	74.00	-9.50
2390.00	Average	50.77	0.60	51.37	54.00	-2.63
2390.00	Peak	61.37	0.60	61.97	74.00	-12.03

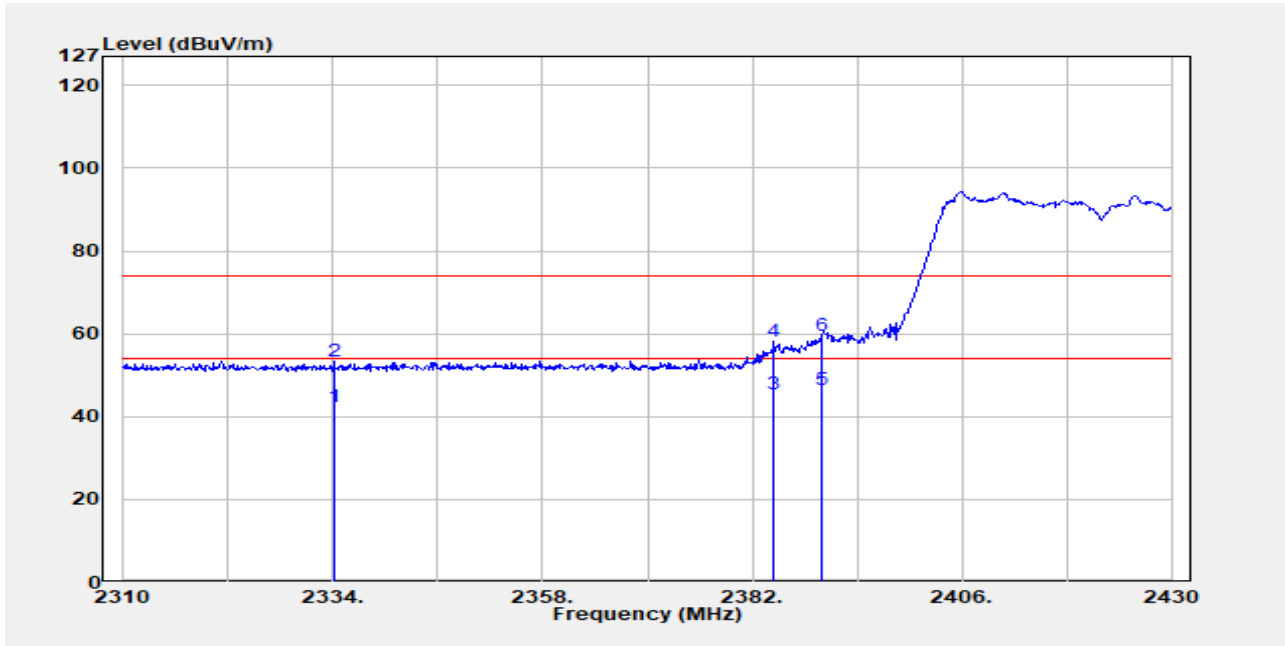
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2334.12	Average	41.93	0.55	42.48	54.00	-11.52
2334.12	Peak	52.85	0.55	53.40	74.00	-20.60
2384.52	Average	44.86	0.61	45.47	54.00	-8.53
2384.52	Peak	57.44	0.61	58.04	74.00	-15.96
2390.00	Average	45.86	0.60	46.46	54.00	-7.54
2390.00	Peak	58.91	0.60	59.52	74.00	-14.48

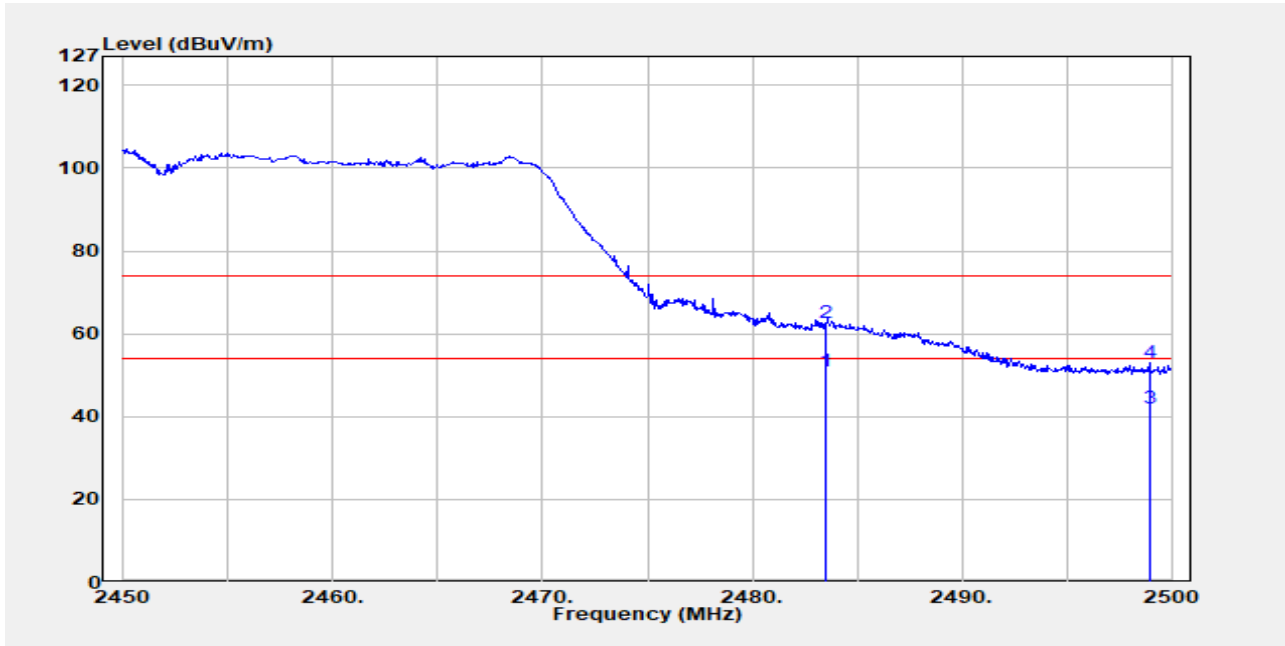
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	50.78	0.21	50.99	54.00	-3.01
2483.50	Peak	62.30	0.21	62.51	74.00	-11.49
2498.95	Average	41.77	0.35	42.12	54.00	-11.88
2498.95	Peak	52.49	0.35	52.84	74.00	-21.16

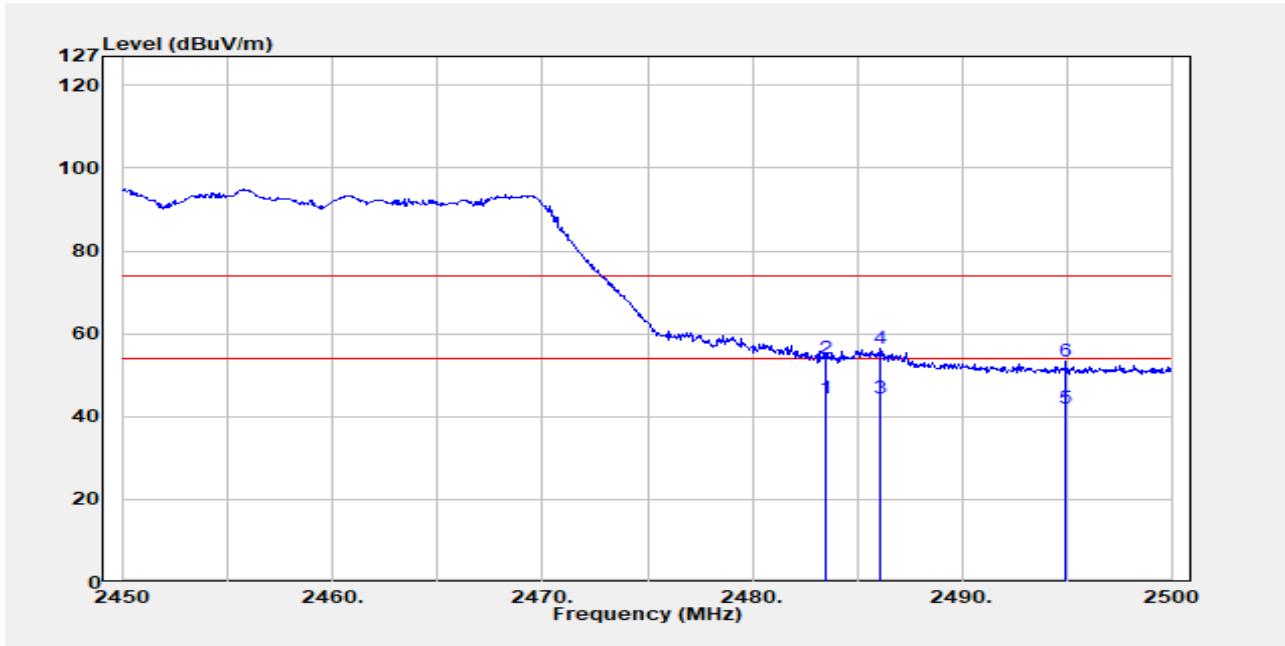
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-10
 Temp./Humi. :23.9/59
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	44.24	0.21	44.45	54.00	-9.55
2483.50	Peak	53.97	0.21	54.18	74.00	-19.82
2486.10	Average	44.26	0.24	44.50	54.00	-9.50
2486.10	Peak	56.13	0.24	56.37	74.00	-17.63
2494.95	Average	41.62	0.32	41.94	54.00	-12.06
2494.95	Peak	52.91	0.32	53.23	74.00	-20.77

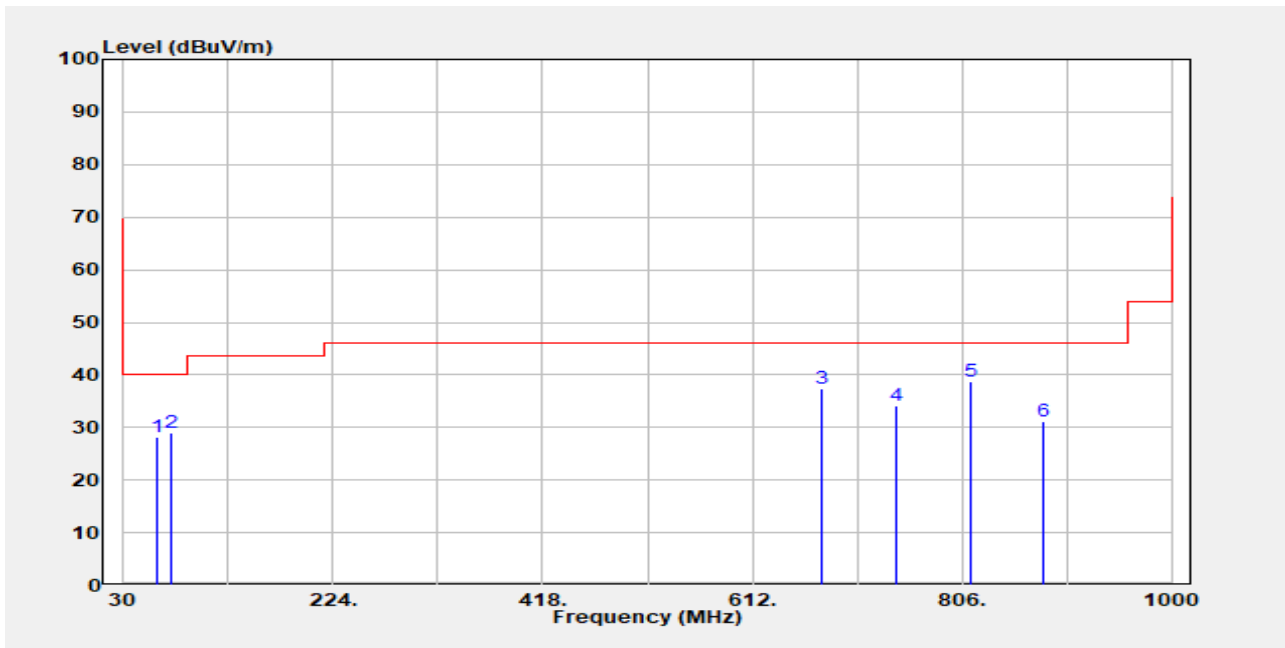
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11.6.2 Spurious Emission:

Internal Antenna (Type: Printed antenna, Model no: N/A)

Report Number	:TERF2212002705ER	Test Site	:SAC 1
Operation Mode	:802.11g	Test Date	:2023-02-16
Test Frequency	:2437 MHz	Temp./Humi.	:22.5/54
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
61.04	Peak	46.34	-18.14	28.20	40.00	-11.80
73.65	Peak	46.86	-17.94	28.92	40.00	-11.08
676.99	Peak	39.77	-2.50	37.26	46.00	-8.74
744.89	Peak	36.58	-2.51	34.06	46.00	-11.94
813.76	Peak	39.99	-1.31	38.68	46.00	-7.32
880.69	Peak	32.33	-1.08	31.25	46.00	-14.75

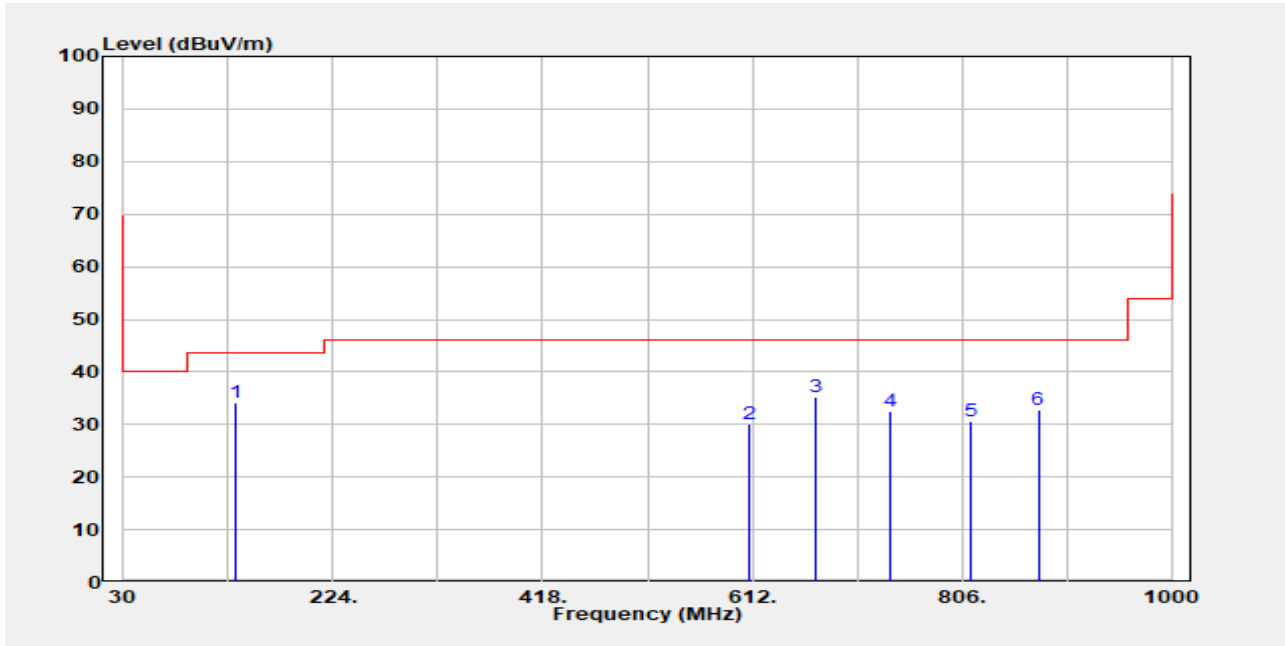
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Report Number :TERF2212002705ER
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-02-16
Temp./Humi. :22.5/54
Antenna Pol. :Horizontal
Engineer :GN Lin



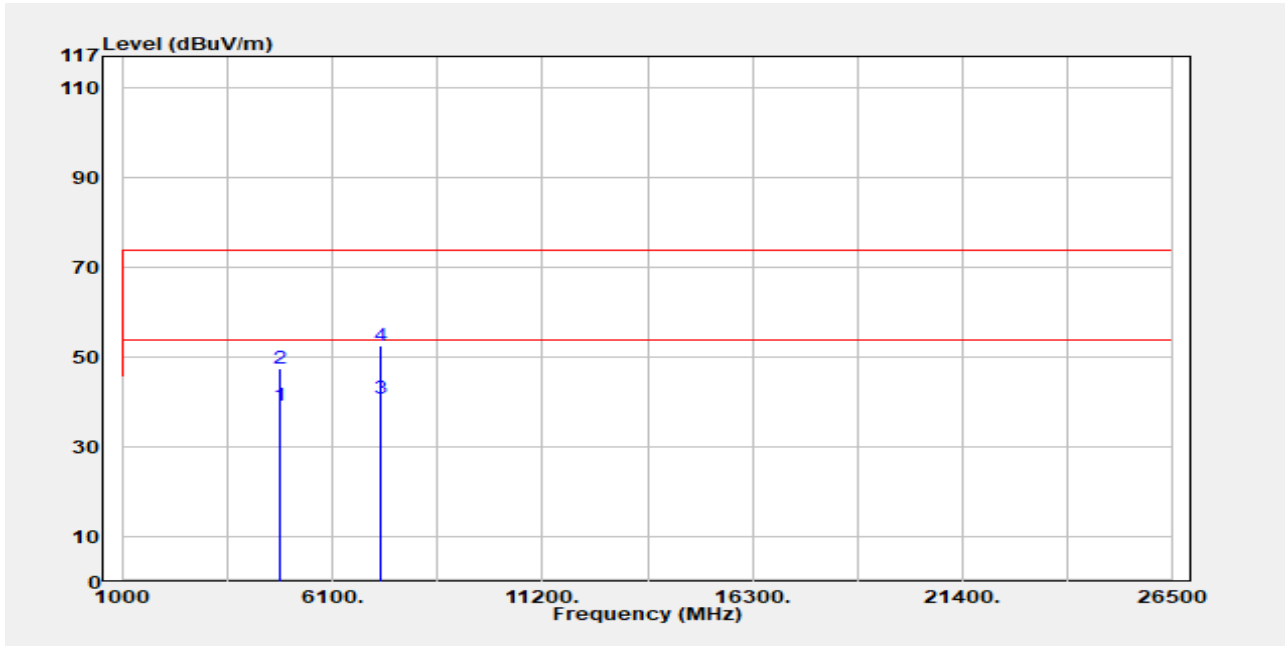
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
133.79	Peak	45.94	-11.93	34.01	43.50	-9.49
610.06	Peak	33.14	-3.18	29.96	46.00	-16.04
671.17	Peak	38.37	-3.22	35.15	46.00	-10.85
739.07	Peak	35.28	-2.80	32.48	46.00	-13.52
813.76	Peak	32.01	-1.31	30.70	46.00	-15.30
876.81	Peak	33.61	-0.92	32.69	46.00	-13.31

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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	31.51	7.95	39.46	54.00	-14.54
4824.00	Peak	39.50	7.95	47.45	74.00	-26.55
7236.00	Average	25.81	15.18	40.99	54.00	-13.01
7236.00	Peak	37.59	15.18	52.77	74.00	-21.23

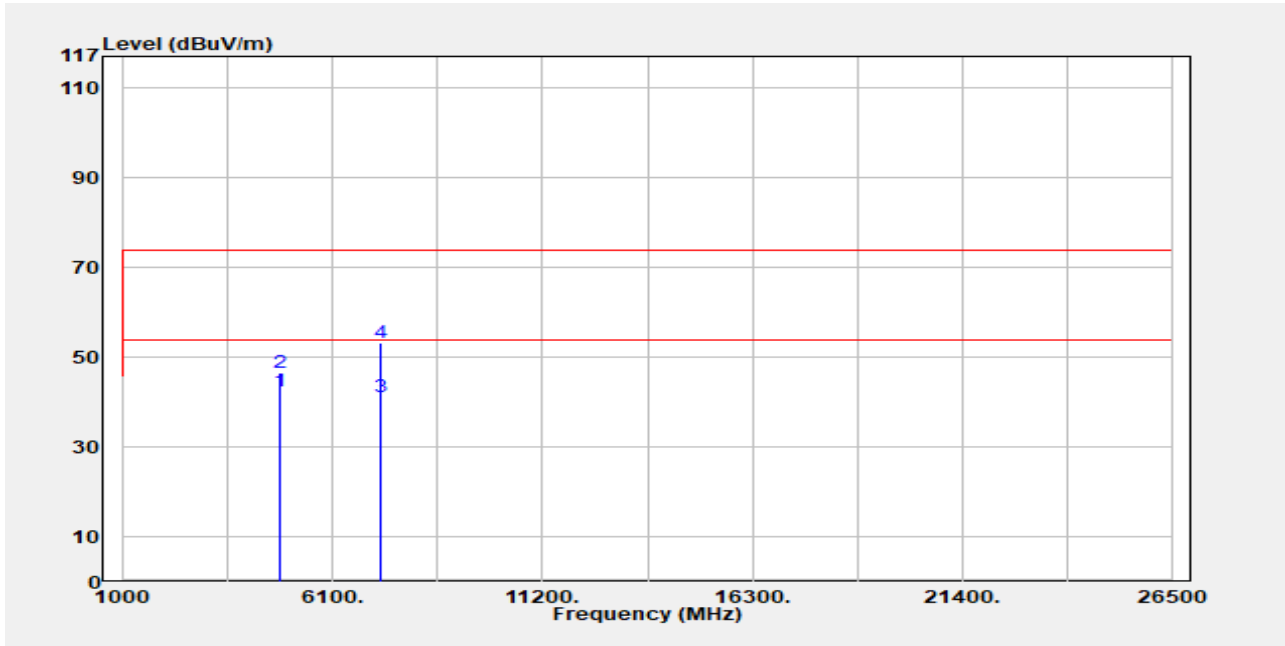
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	34.69	7.95	42.64	54.00	-11.36
4824.00	Peak	38.58	7.95	46.53	74.00	-27.47
7236.00	Average	26.15	15.18	41.33	54.00	-12.67
7236.00	Peak	38.09	15.18	53.27	74.00	-20.73

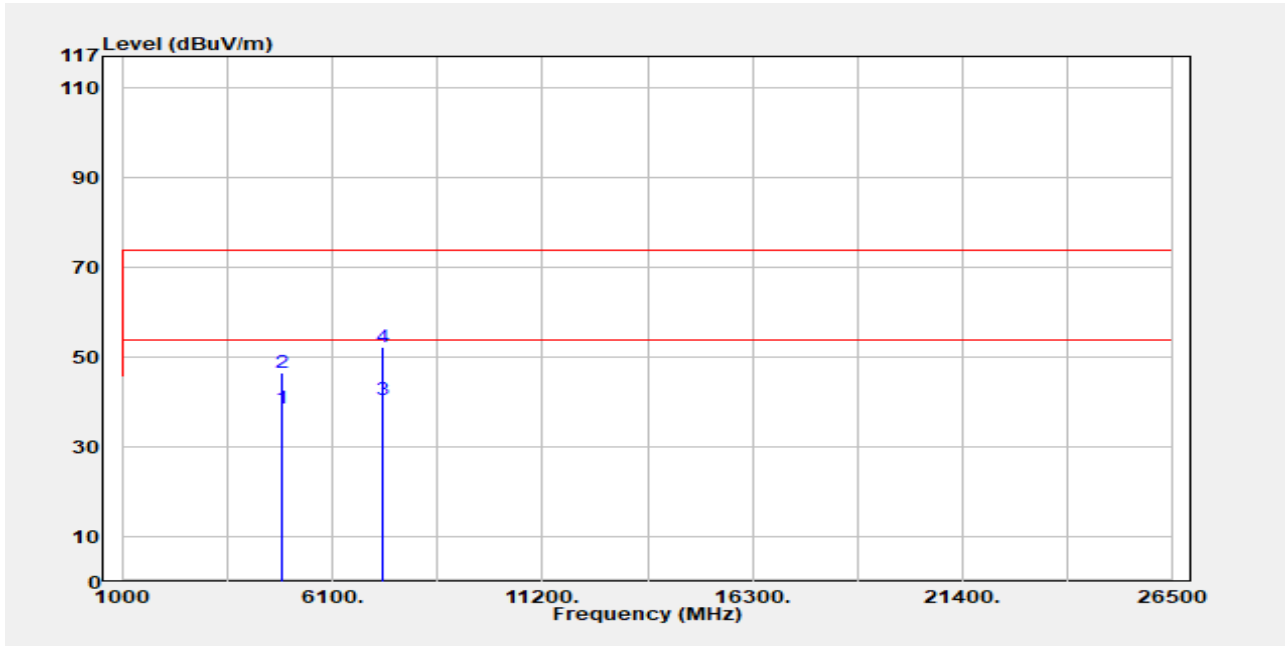
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	30.97	7.76	38.73	54.00	-15.27
4874.00	Peak	38.82	7.76	46.58	74.00	-27.42
7311.00	Average	25.49	15.23	40.72	54.00	-13.28
7311.00	Peak	37.07	15.23	52.30	74.00	-21.70

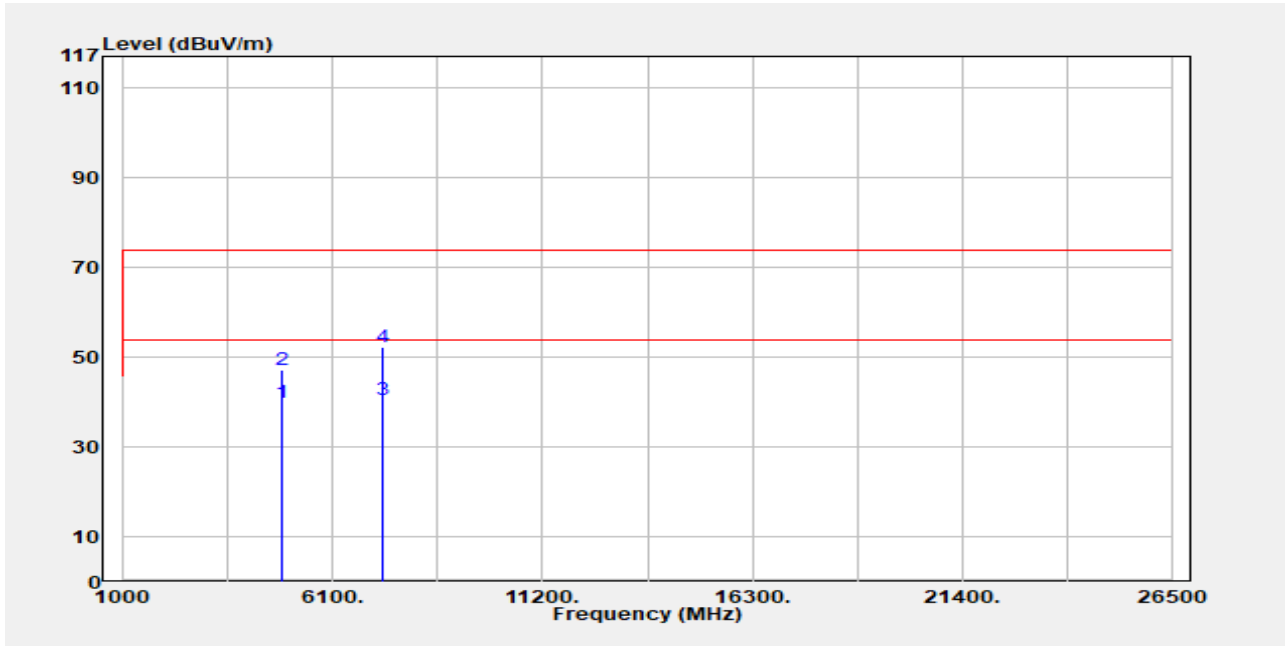
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	32.05	7.76	39.81	54.00	-14.19
4874.00	Peak	39.42	7.76	47.18	74.00	-26.82
7311.00	Average	25.23	15.23	40.46	54.00	-13.54
7311.00	Peak	36.97	15.23	52.20	74.00	-21.80

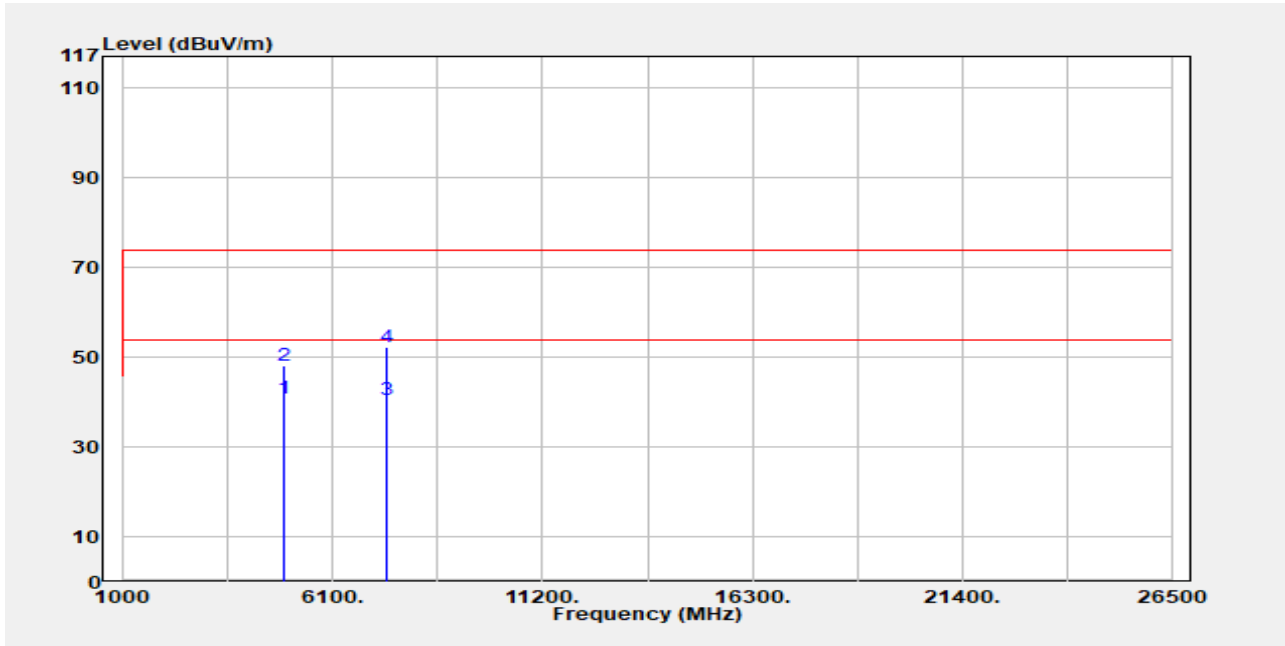
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	33.12	7.83	40.95	54.00	-13.05
4924.00	Peak	40.33	7.83	48.16	74.00	-25.84
7386.00	Average	25.17	15.33	40.50	54.00	-13.50
7386.00	Peak	36.94	15.33	52.27	74.00	-21.73

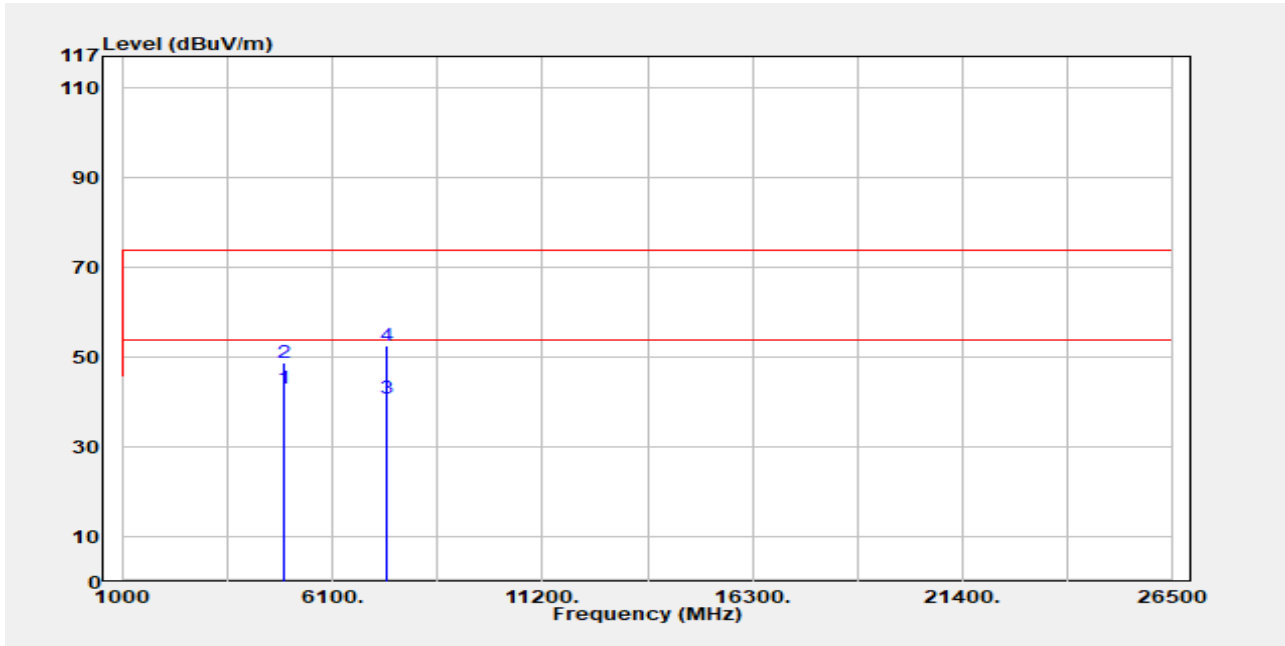
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	35.23	7.83	43.06	54.00	-10.94
4924.00	Peak	41.14	7.83	48.97	74.00	-25.03
7386.00	Average	25.42	15.33	40.75	54.00	-13.25
7386.00	Peak	37.30	15.33	52.63	74.00	-21.37

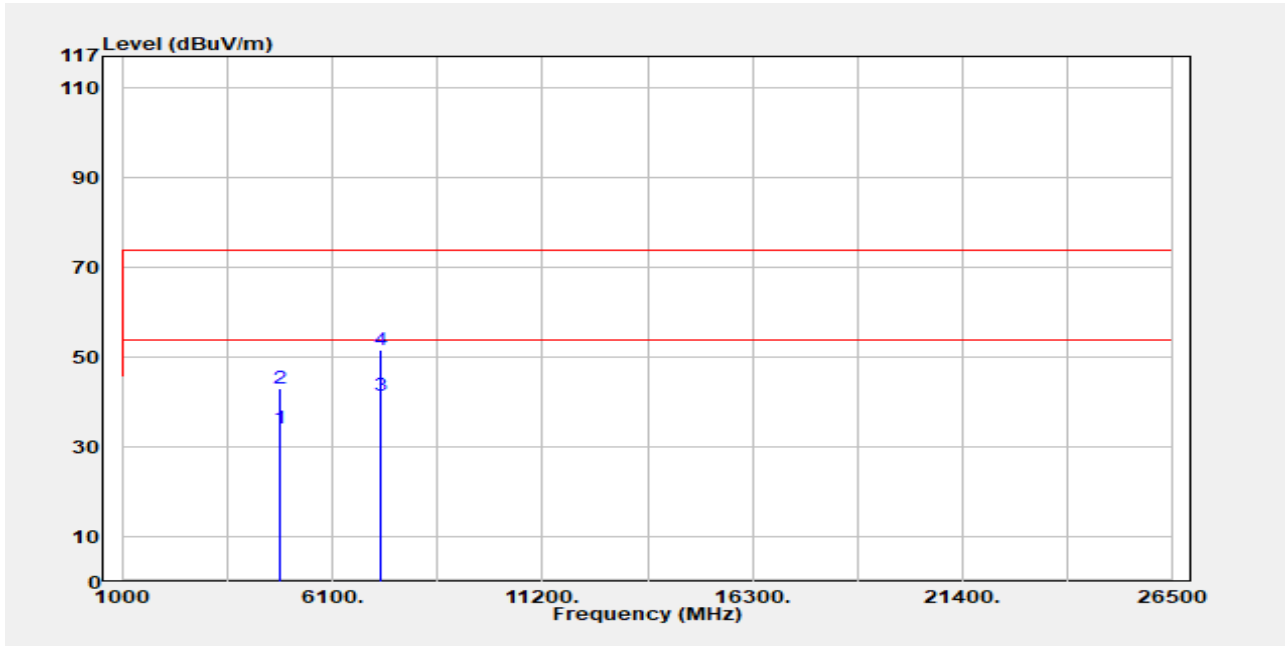
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.17	7.95	34.12	54.00	-19.88
4824.00	Peak	35.16	7.95	43.11	74.00	-30.89
7236.00	Average	26.34	15.18	41.52	54.00	-12.48
7236.00	Peak	36.55	15.18	51.73	74.00	-22.27

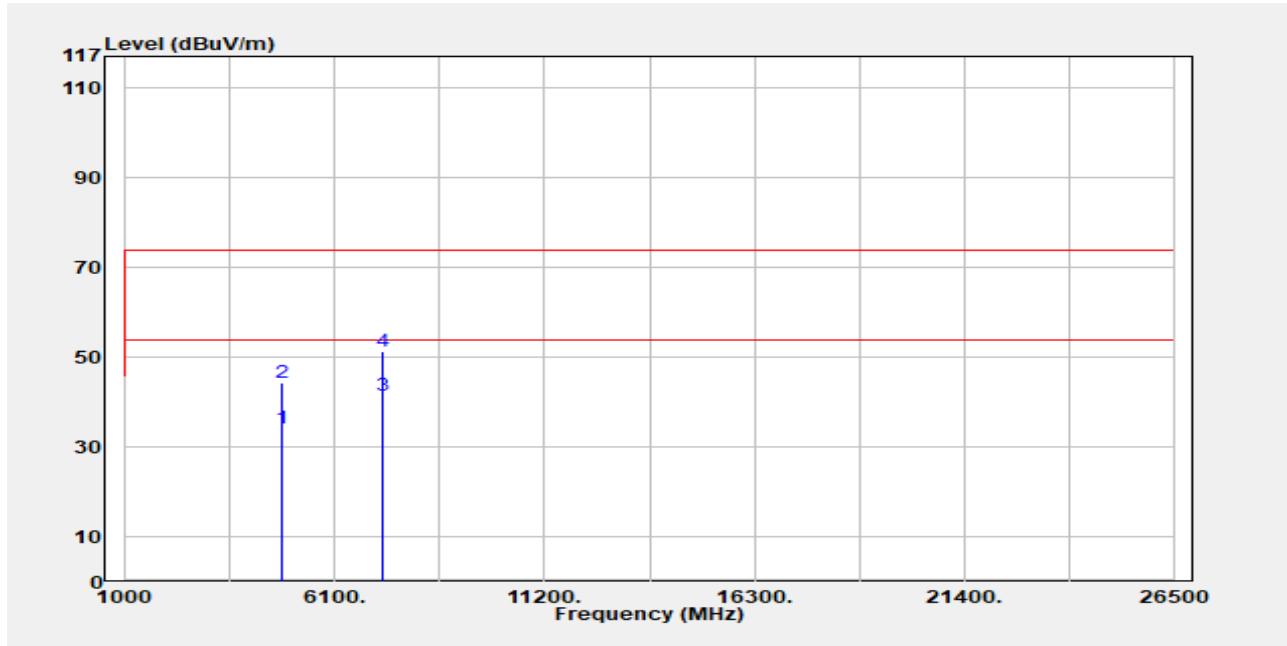
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.36	7.95	34.31	54.00	-19.69
4824.00	Peak	36.38	7.95	44.32	74.00	-29.68
7236.00	Average	26.40	15.18	41.58	54.00	-12.42
7236.00	Peak	36.19	15.18	51.37	74.00	-22.63

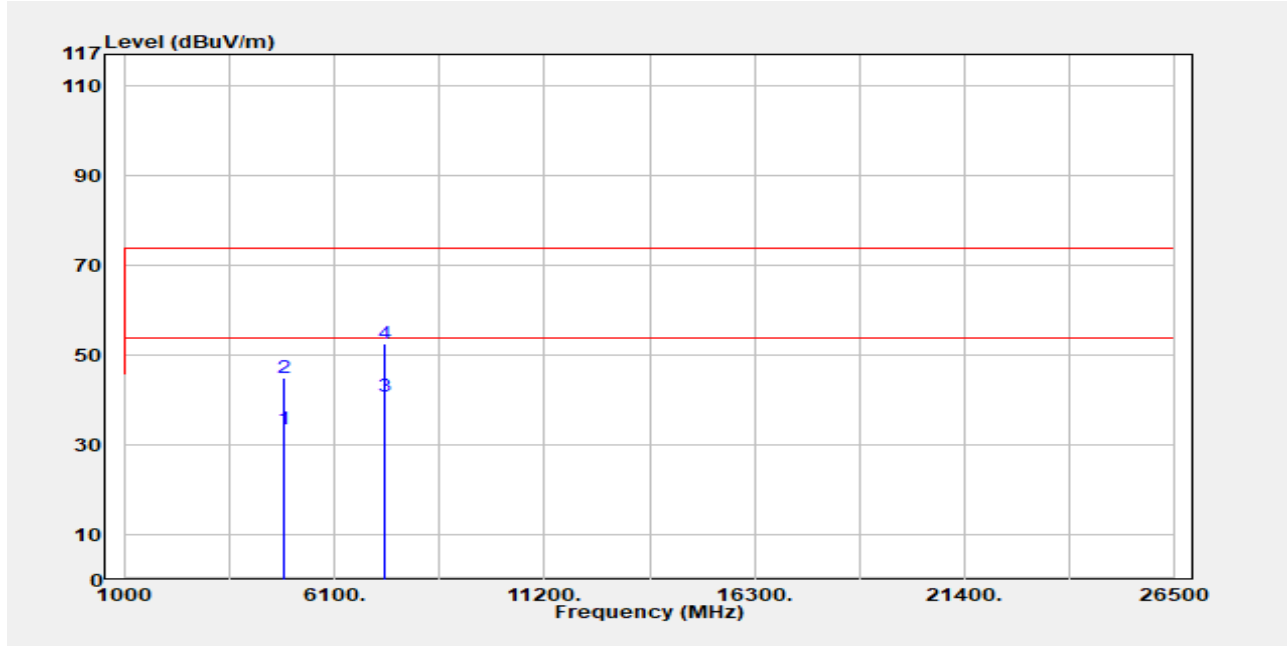
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	25.86	7.76	33.62	54.00	-20.38
4874.00	Peak	37.26	7.76	45.02	74.00	-28.98
7311.00	Average	25.55	15.23	40.78	54.00	-13.22
7311.00	Peak	37.35	15.23	52.58	74.00	-21.42

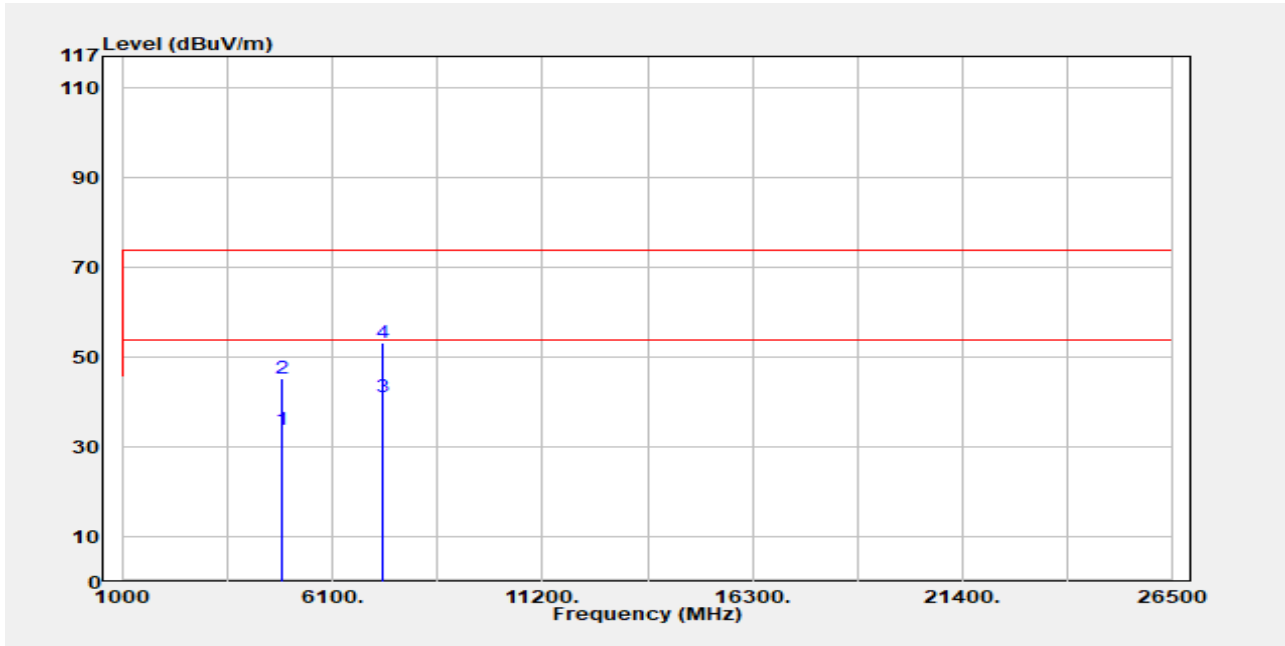
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.09	7.76	33.85	54.00	-20.15
4874.00	Peak	37.60	7.76	45.36	74.00	-28.64
7311.00	Average	25.97	15.23	41.20	54.00	-12.80
7311.00	Peak	37.94	15.23	53.17	74.00	-20.83

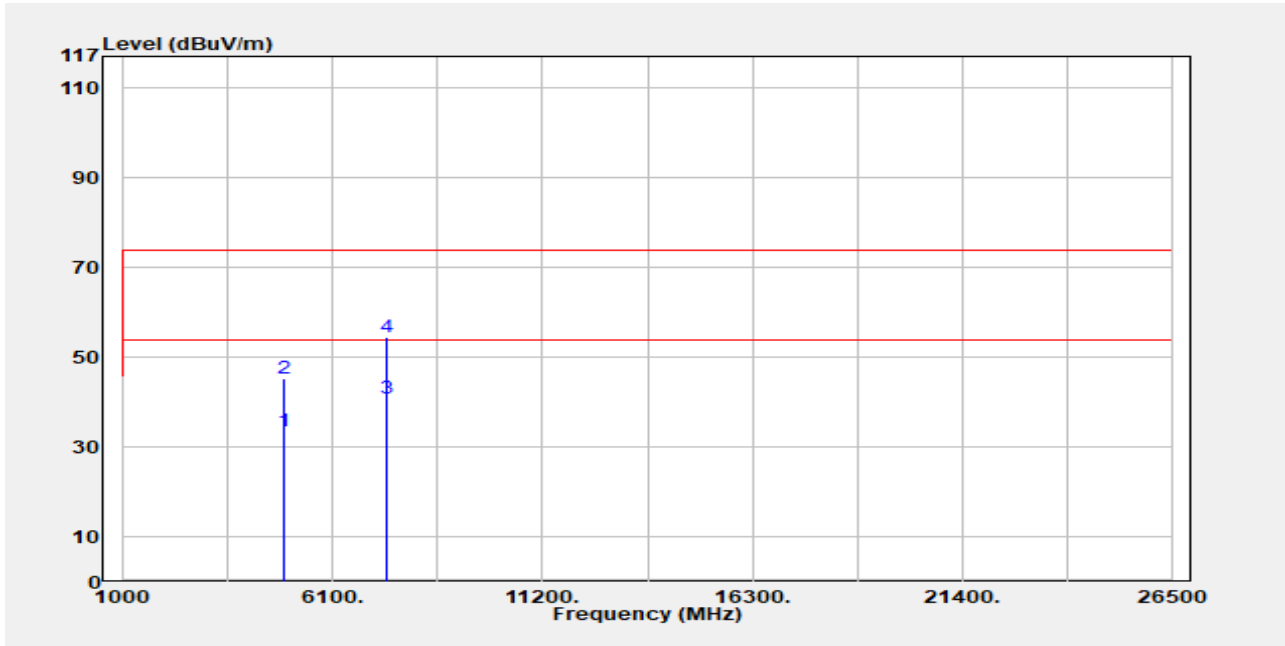
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	25.86	7.83	33.69	54.00	-20.31
4924.00	Peak	37.54	7.83	45.37	74.00	-28.63
7386.00	Average	25.57	15.33	40.90	54.00	-13.10
7386.00	Peak	39.06	15.33	54.39	74.00	-19.61

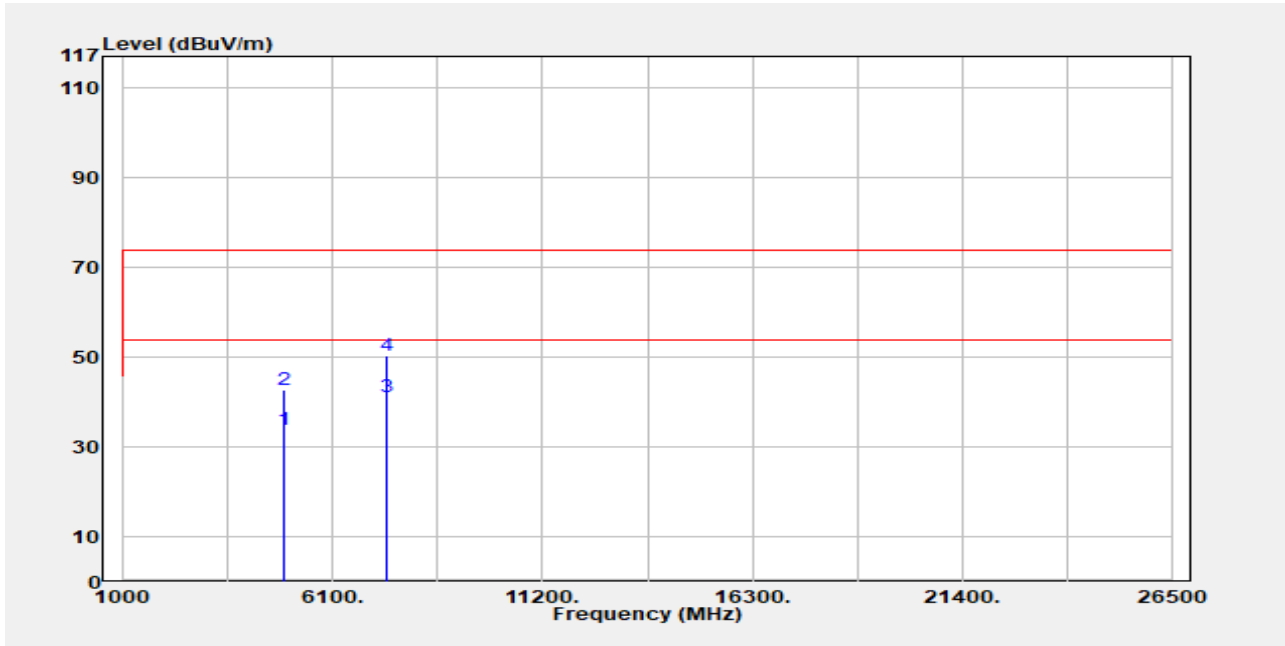
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.11	7.83	33.94	54.00	-20.06
4924.00	Peak	34.92	7.83	42.75	74.00	-31.25
7386.00	Average	25.73	15.33	41.06	54.00	-12.94
7386.00	Peak	34.97	15.33	50.31	74.00	-23.69

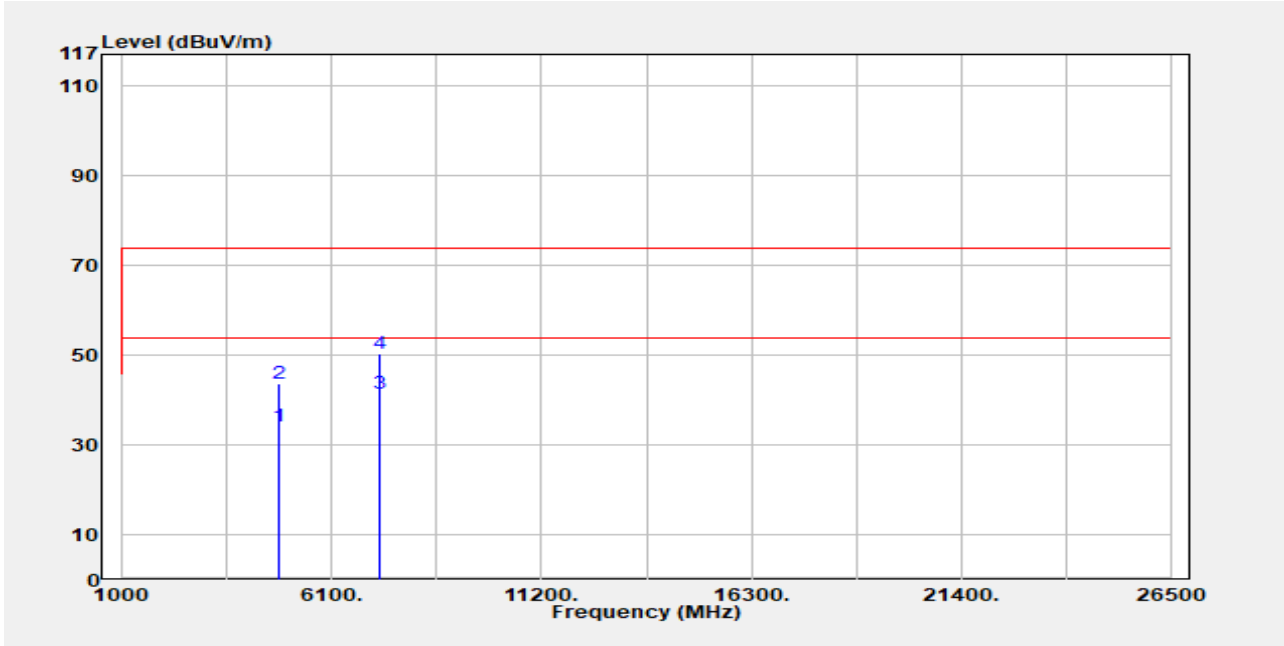
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.19	7.95	34.14	54.00	-19.86
4824.00	Peak	35.76	7.95	43.71	74.00	-30.29
7236.00	Average	26.36	15.18	41.54	54.00	-12.46
7236.00	Peak	35.37	15.18	50.55	74.00	-23.45

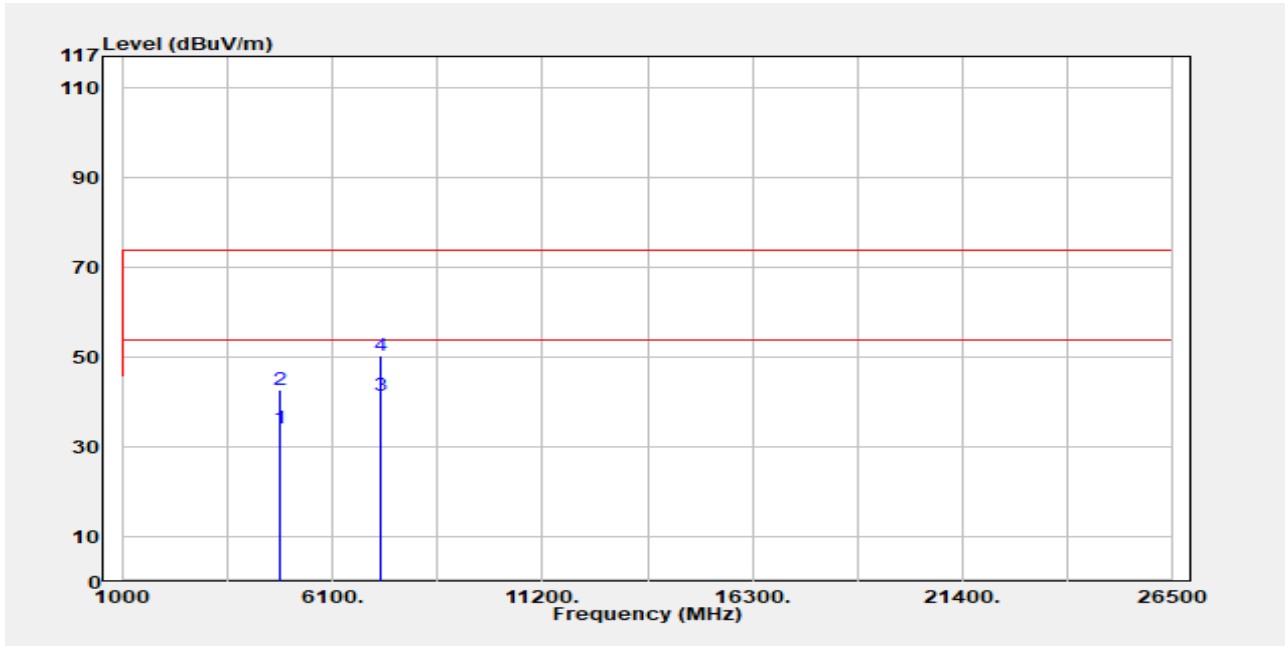
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.24	7.95	34.19	54.00	-19.81
4824.00	Peak	34.93	7.95	42.88	74.00	-31.12
7236.00	Average	26.41	15.18	41.59	54.00	-12.41
7236.00	Peak	35.21	15.18	50.39	74.00	-23.61

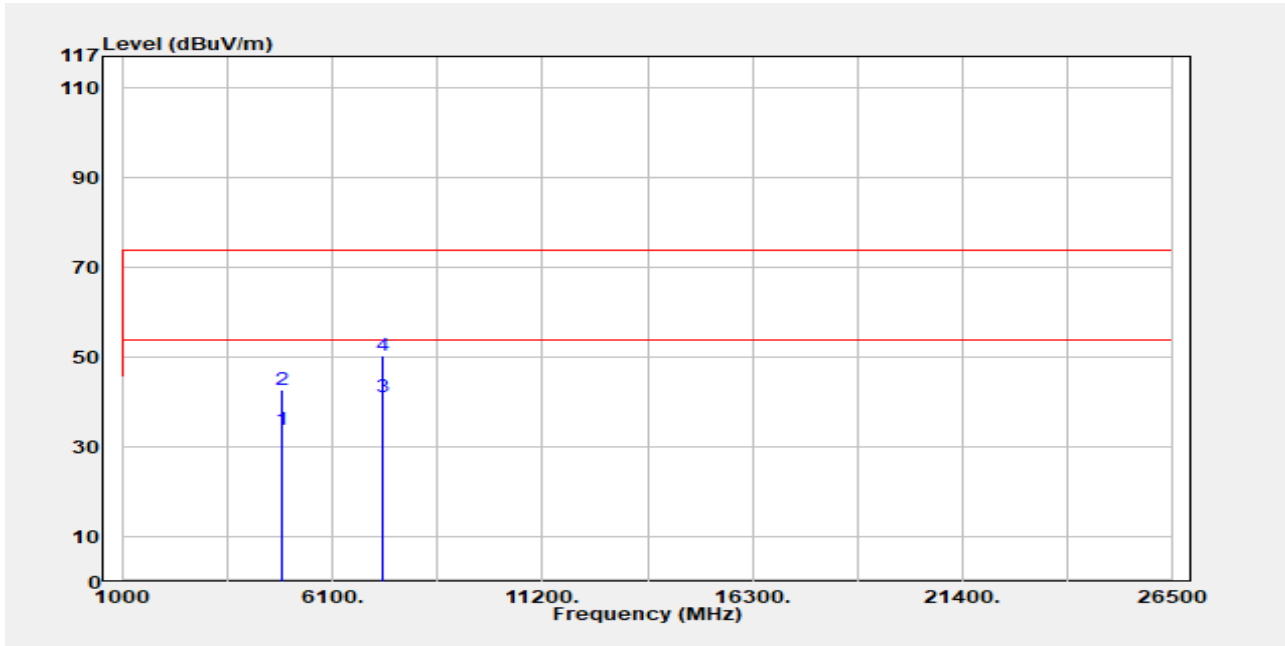
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.27	7.76	34.03	54.00	-19.97
4874.00	Peak	34.93	7.76	42.70	74.00	-31.30
7311.00	Average	26.12	15.23	41.35	54.00	-12.65
7311.00	Peak	35.29	15.23	50.52	74.00	-23.48

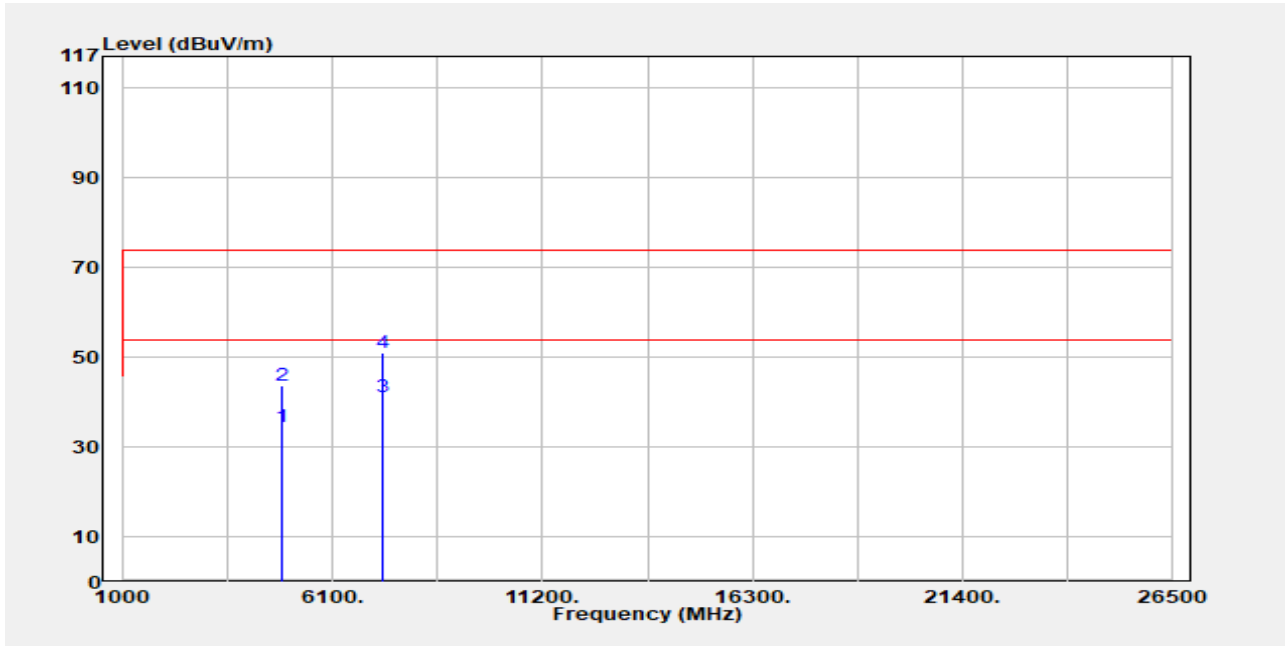
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.74	7.76	34.50	54.00	-19.50
4874.00	Peak	35.93	7.76	43.70	74.00	-30.30
7311.00	Average	26.07	15.23	41.30	54.00	-12.70
7311.00	Peak	35.92	15.23	51.15	74.00	-22.85

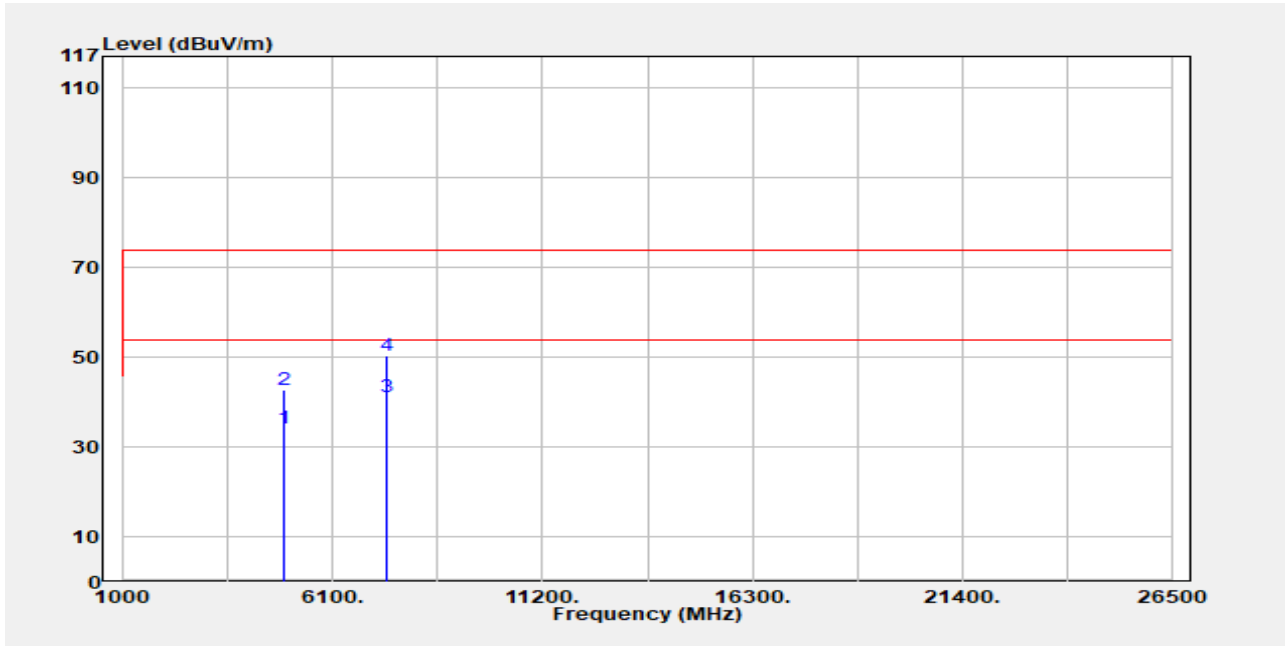
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.35	7.83	34.18	54.00	-19.82
4924.00	Peak	34.99	7.83	42.82	74.00	-31.18
7386.00	Average	25.83	15.33	41.16	54.00	-12.84
7386.00	Peak	35.09	15.33	50.43	74.00	-23.57

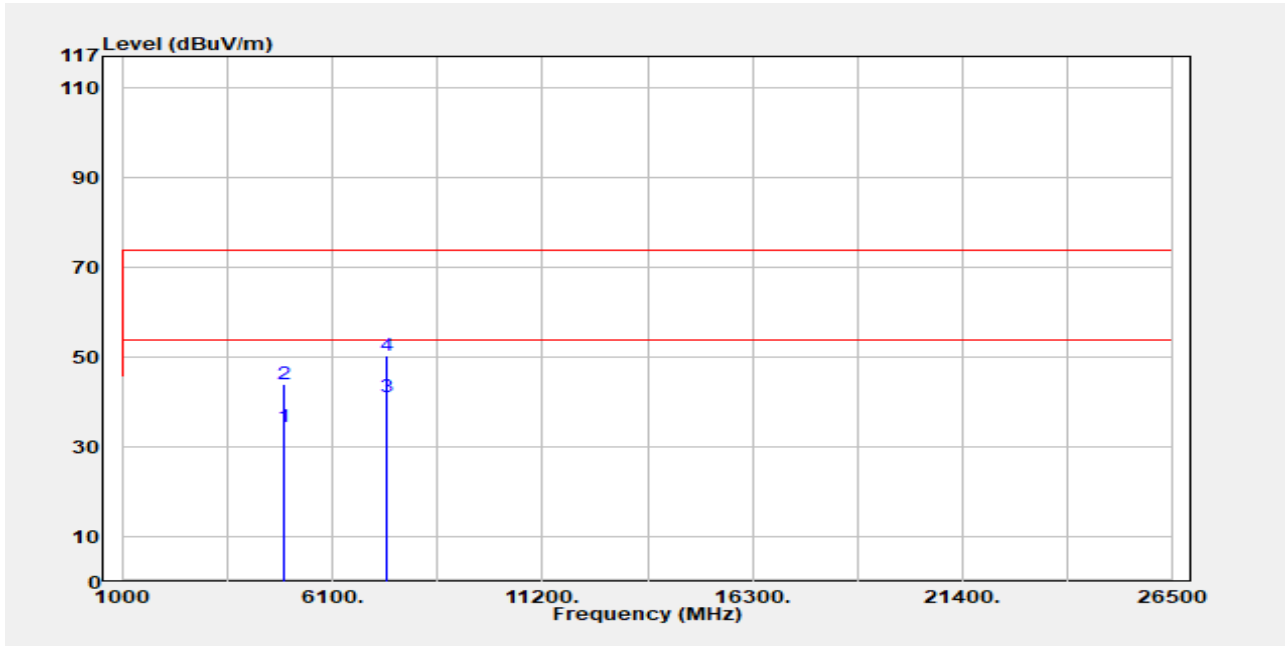
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.62	7.83	34.45	54.00	-19.55
4924.00	Peak	36.09	7.83	43.92	74.00	-30.08
7386.00	Average	25.90	15.33	41.23	54.00	-12.77
7386.00	Peak	35.05	15.33	50.38	74.00	-23.62

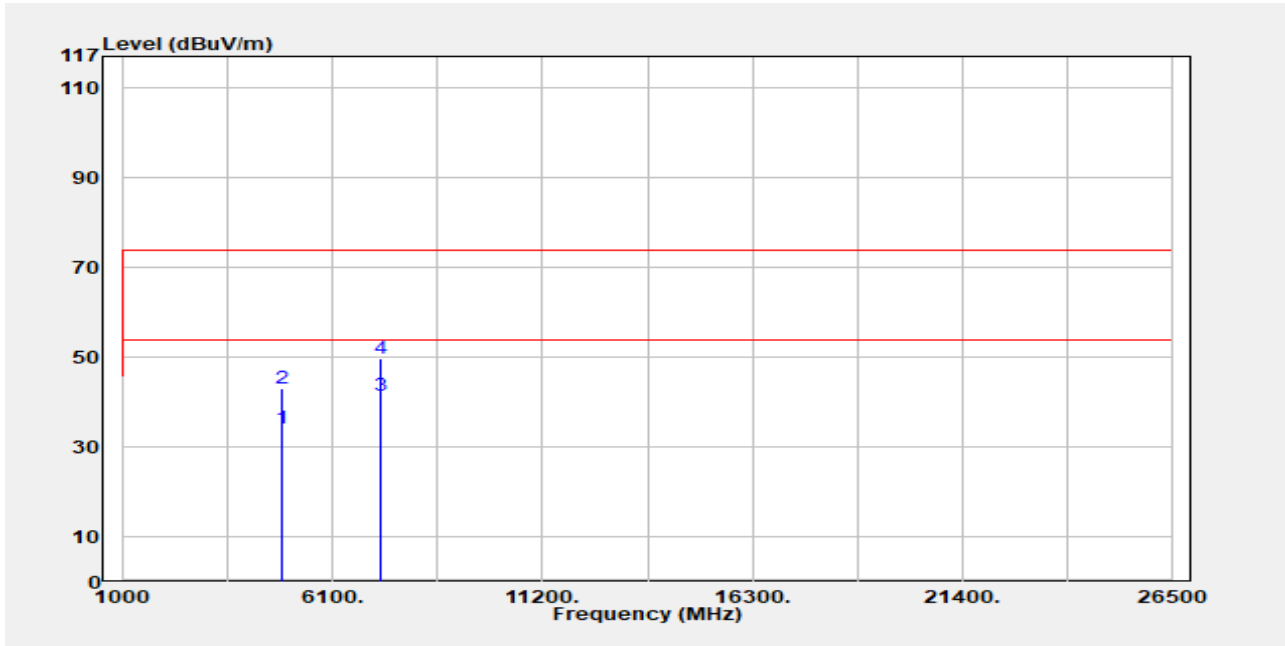
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.33	8.03	34.36	54.00	-19.64
4844.00	Peak	35.20	8.03	43.24	74.00	-30.76
7266.00	Average	26.51	15.07	41.58	54.00	-12.42
7266.00	Peak	34.84	15.07	49.91	74.00	-24.09

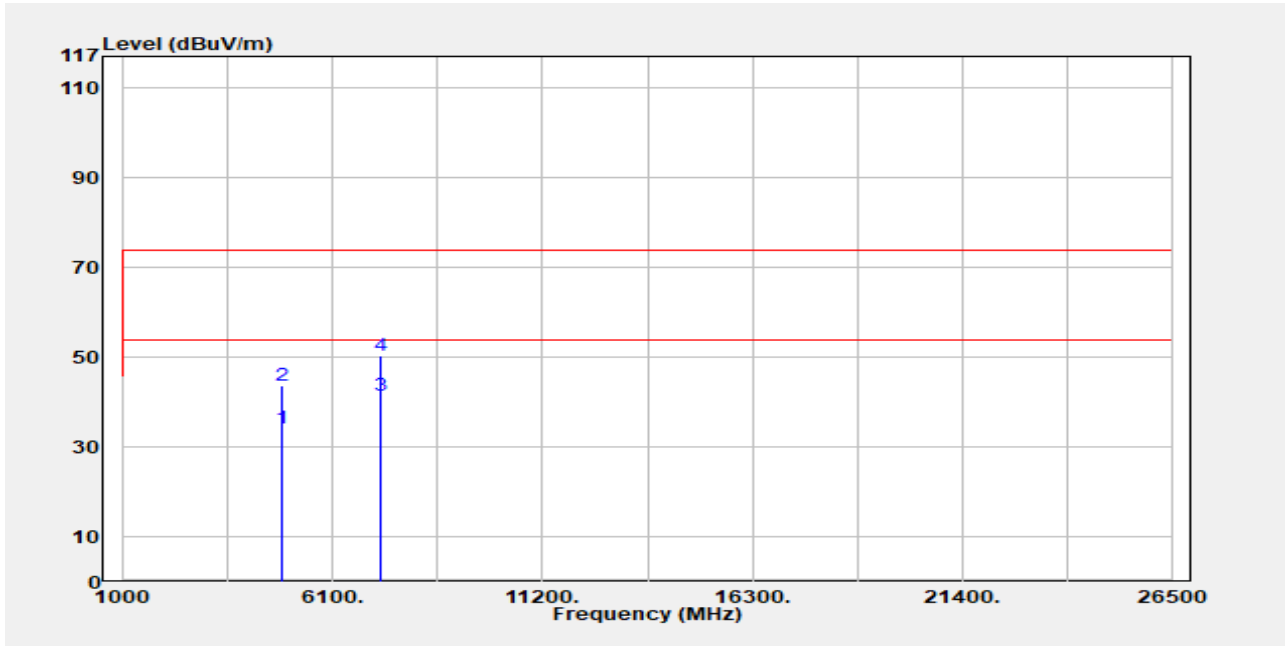
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.33	8.03	34.36	54.00	-19.64
4844.00	Peak	35.75	8.03	43.79	74.00	-30.21
7266.00	Average	26.54	15.07	41.61	54.00	-12.39
7266.00	Peak	35.37	15.07	50.44	74.00	-23.56

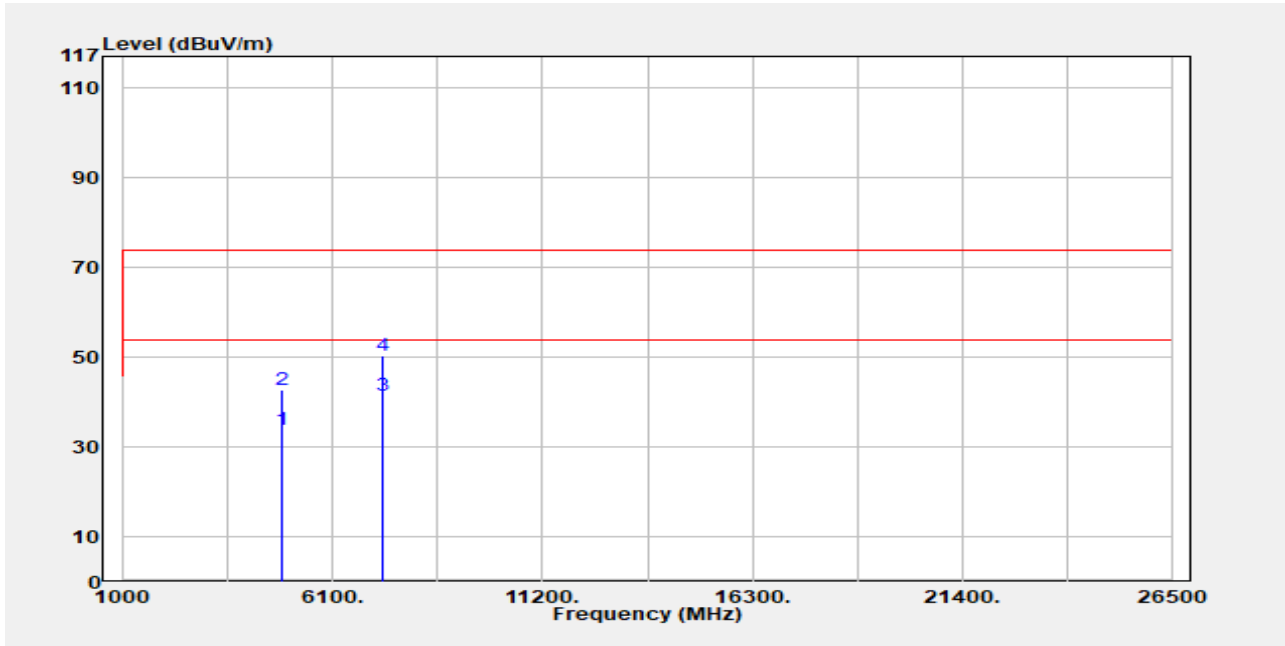
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.10	7.76	33.86	54.00	-20.14
4874.00	Peak	35.15	7.76	42.91	74.00	-31.09
7311.00	Average	26.30	15.23	41.53	54.00	-12.47
7311.00	Peak	35.34	15.23	50.56	74.00	-23.44

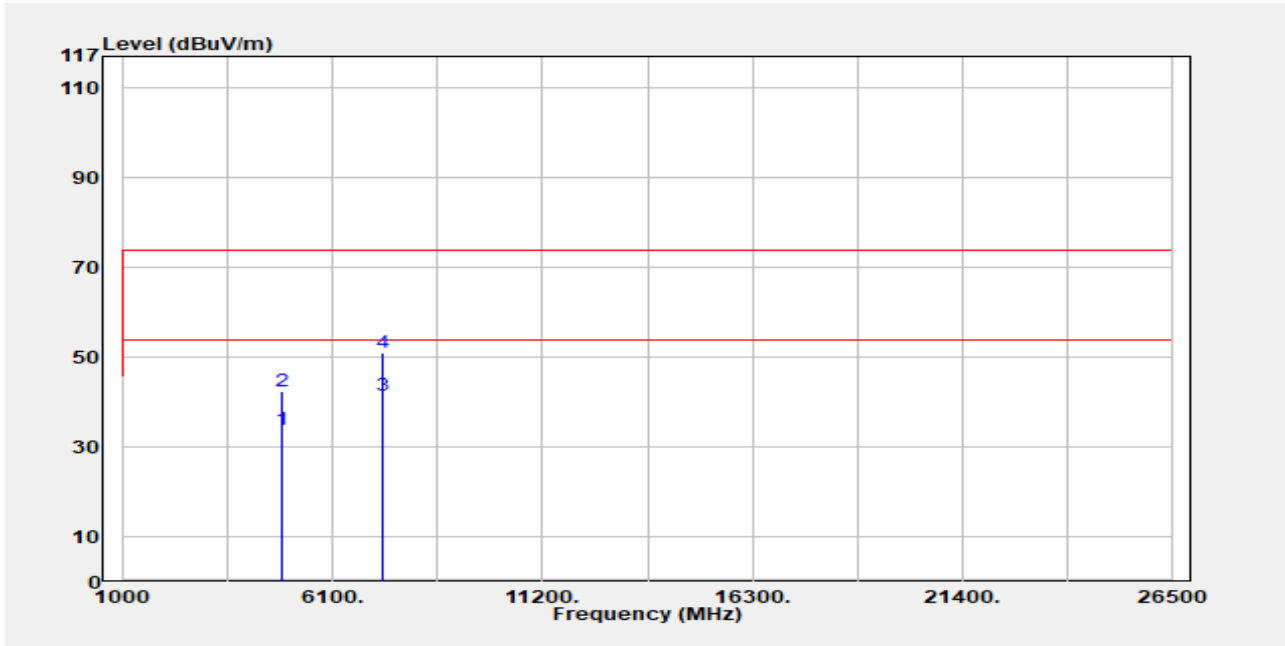
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.13	7.76	33.89	54.00	-20.11
4874.00	Peak	34.64	7.76	42.40	74.00	-31.60
7311.00	Average	26.37	15.23	41.60	54.00	-12.40
7311.00	Peak	35.71	15.23	50.94	74.00	-23.06

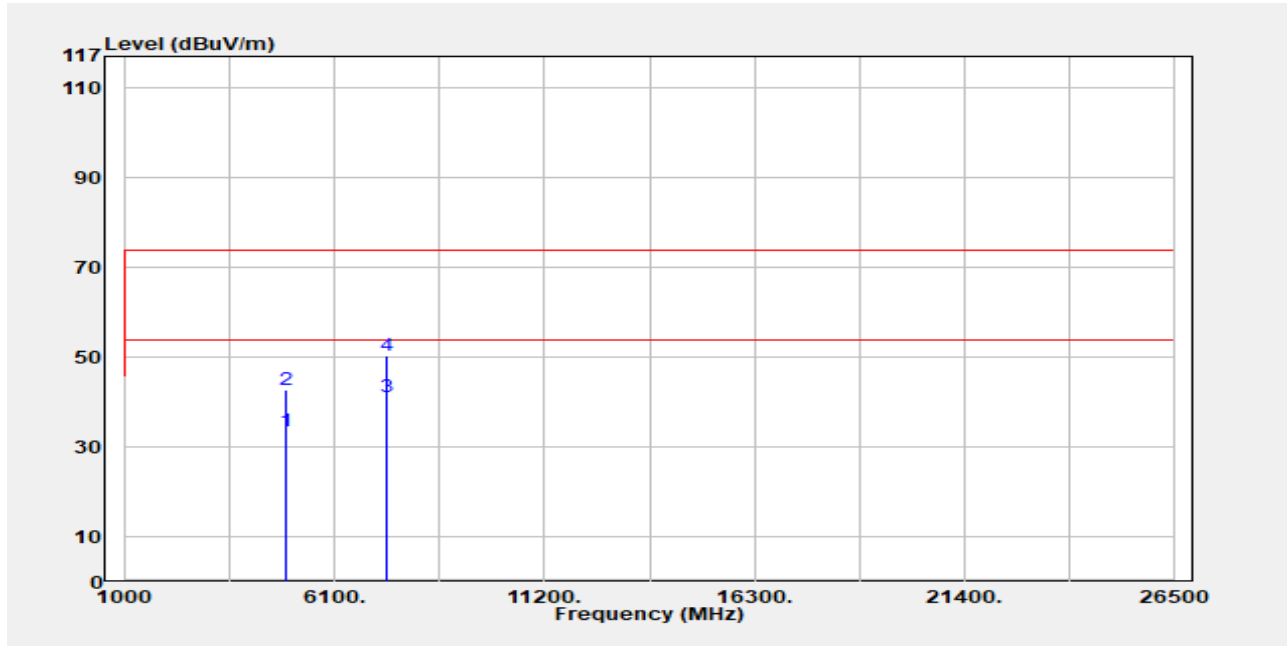
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.09	7.60	33.69	54.00	-20.31
4904.00	Peak	35.23	7.60	42.82	74.00	-31.18
7356.00	Average	25.99	15.37	41.36	54.00	-12.64
7356.00	Peak	35.14	15.37	50.51	74.00	-23.49

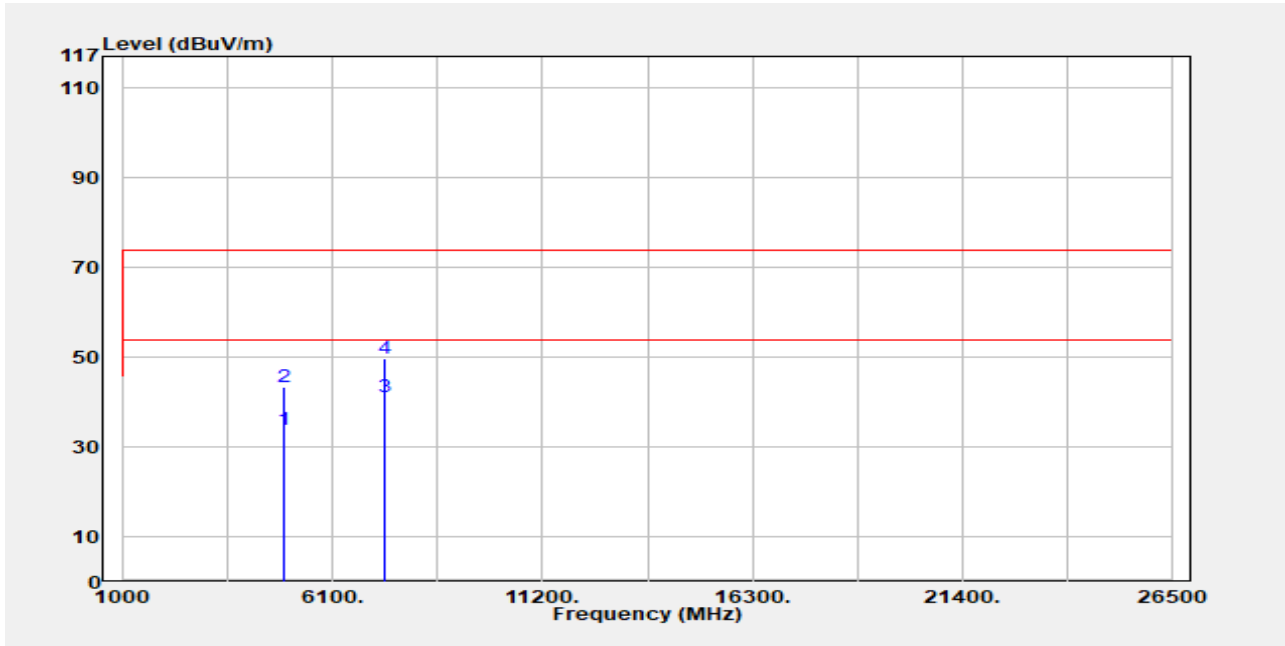
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-16
 Temp./Humi. :22.5/54
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.31	7.60	33.91	54.00	-20.09
4904.00	Peak	35.81	7.60	43.40	74.00	-30.60
7356.00	Average	25.94	15.37	41.31	54.00	-12.69
7356.00	Peak	34.30	15.37	49.67	74.00	-24.33

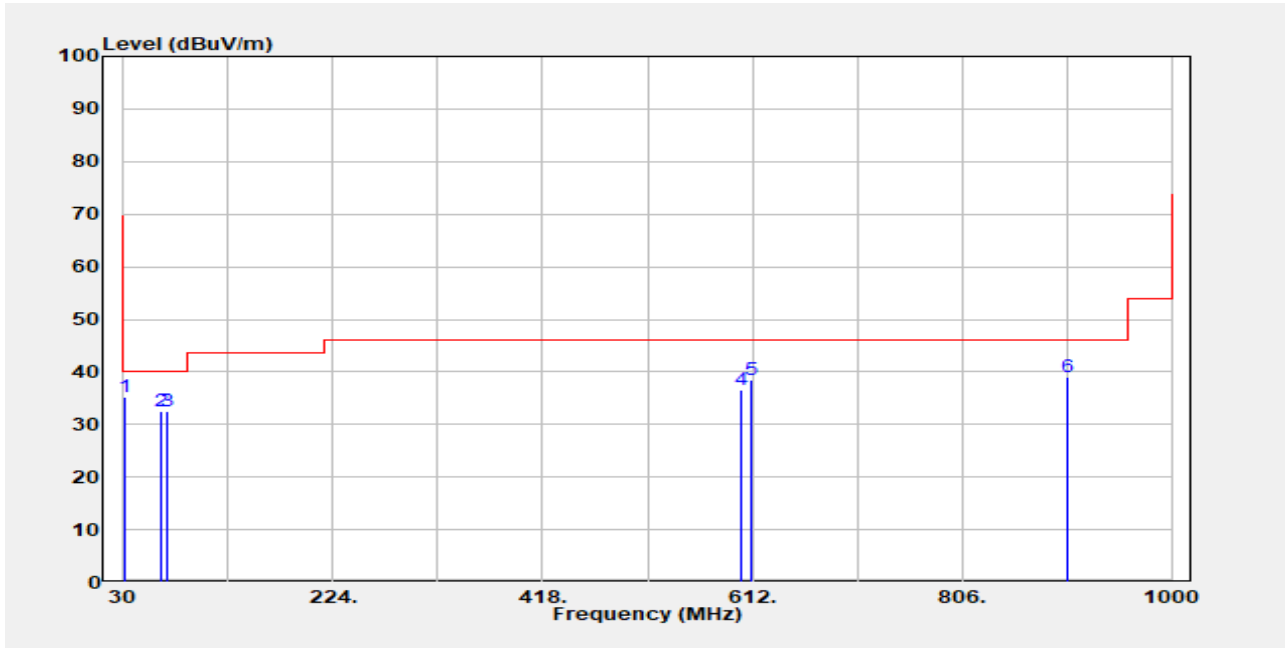
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External Antenna (Type: Dipole antenna, Model no: WTS 2450)

Report Number	:TERF2212002705ER	Test Site	:SAC 1
Operation Mode	:802.11g	Test Date	:2023-02-17
Test Frequency	:2437 MHz	Temp./Humi.	:21.4/51
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:GN Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.62	Peak	41.90	-6.57	35.33	40.00	-4.67
65.57	Peak	50.72	-18.29	32.43	40.00	-7.57
70.42	Peak	50.71	-18.16	32.56	40.00	-7.44
602.30	Peak	39.93	-3.33	36.60	46.00	-9.40
610.38	Peak	41.65	-3.21	38.44	46.00	-7.56
904.62	Peak	39.39	-0.35	39.04	46.00	-6.96

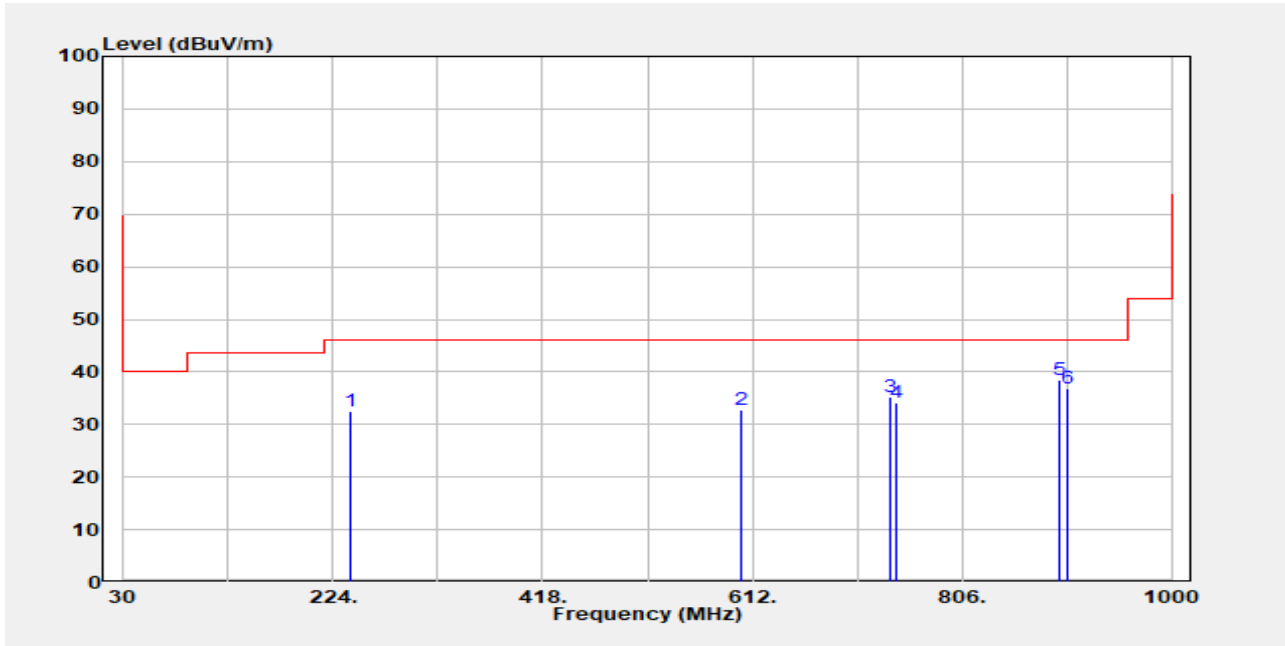
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Report Number :TERF2212002705ER
Operation Mode :802.11g
Test Frequency :2437 MHz
Test Mode :Tx
EUT Pol :H Plane

Test Site :SAC 1
Test Date :2023-02-17
Temp./Humi. :21.4/51
Antenna Pol. :Horizontal
Engineer :GN Lin



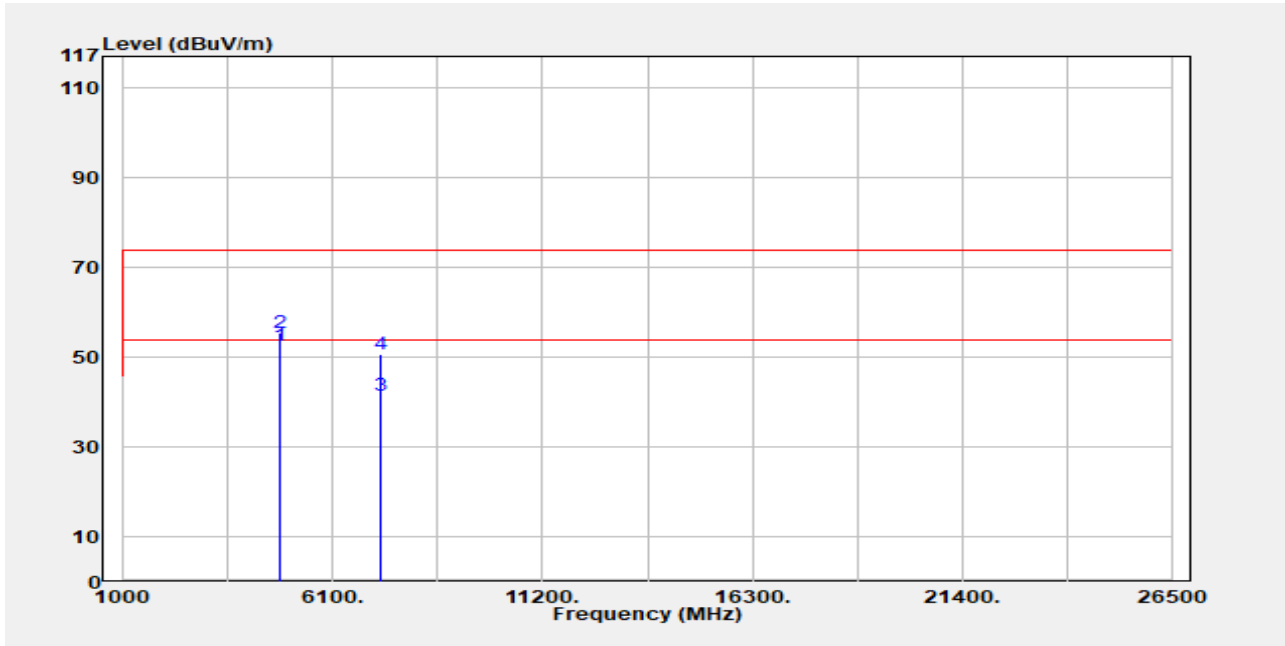
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
240.17	Peak	44.00	-11.45	32.54	46.00	-13.46
602.30	Peak	36.20	-3.33	32.88	46.00	-13.12
739.72	Peak	38.05	-2.78	35.28	46.00	-10.72
746.18	Peak	36.52	-2.43	34.09	46.00	-11.91
896.53	Peak	39.02	-0.47	38.56	46.00	-7.44
904.62	Peak	37.14	-0.35	36.79	46.00	-9.21

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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



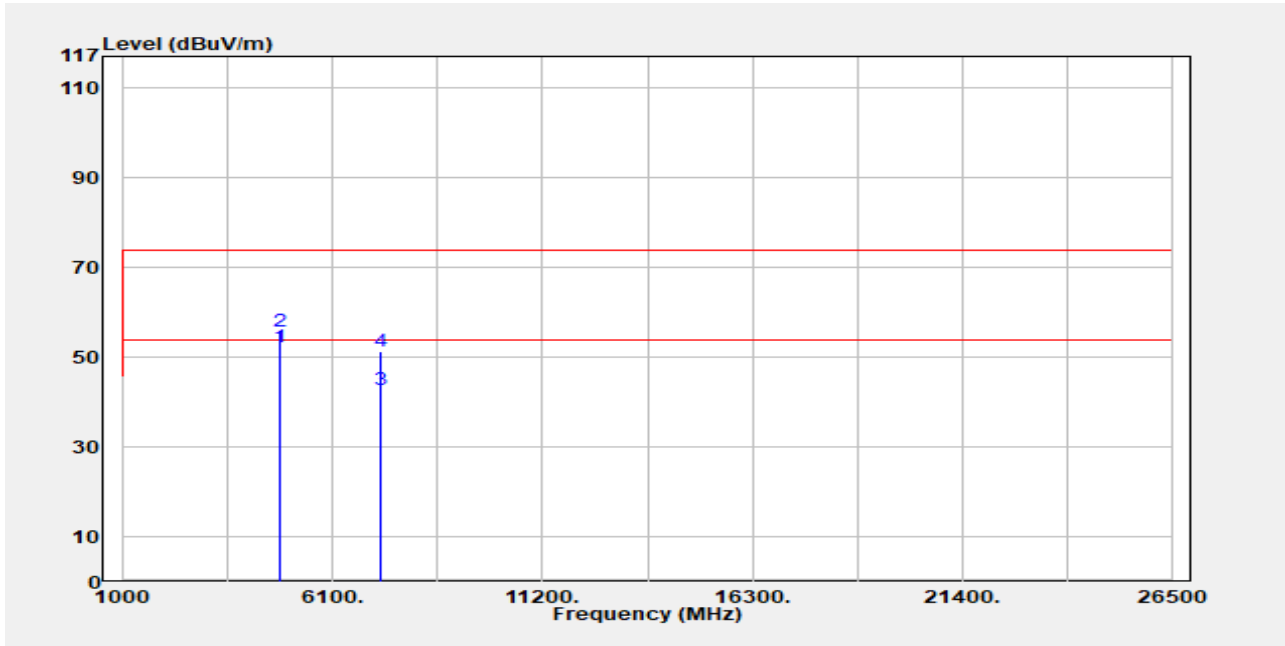
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	44.56	7.95	52.51	54.00	-1.49
4824.00	Peak	47.66	7.95	55.61	74.00	-18.39
7236.00	Average	26.50	15.18	41.68	54.00	-12.32
7236.00	Peak	35.57	15.18	50.75	74.00	-23.25

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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	44.39	7.95	52.34	54.00	-1.66
4824.00	Peak	47.99	7.95	55.94	74.00	-18.06
7236.00	Average	27.63	15.18	42.81	54.00	-11.19
7236.00	Peak	36.23	15.18	51.41	74.00	-22.59

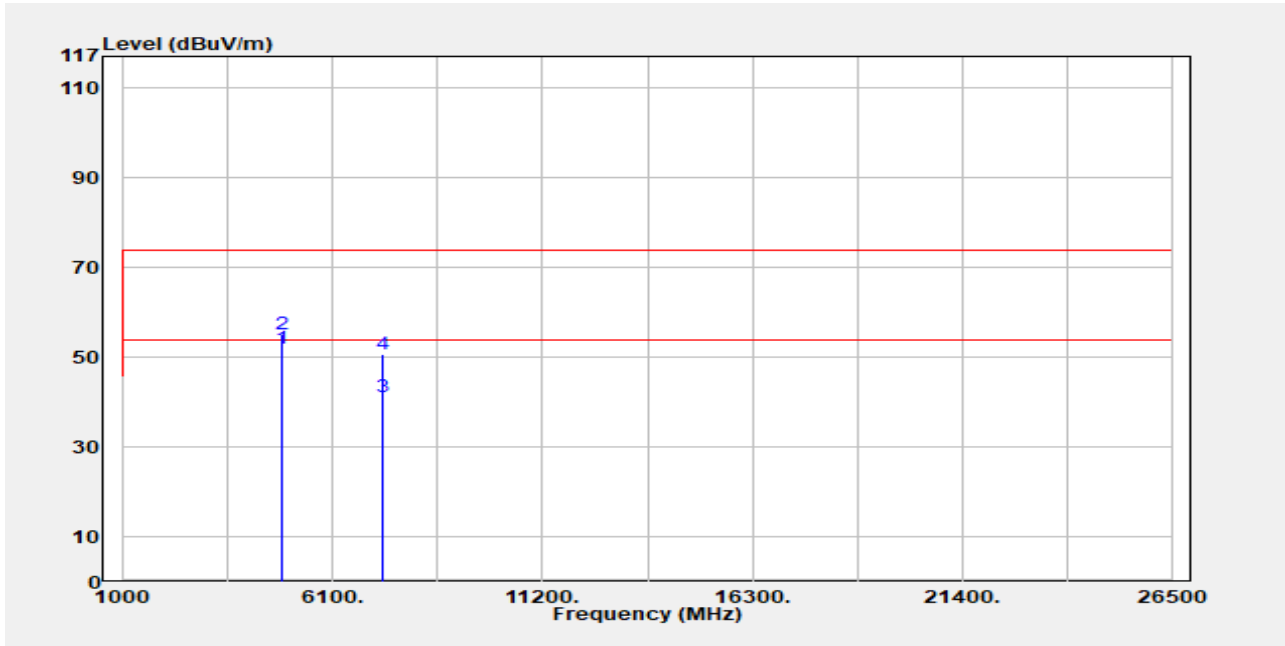
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



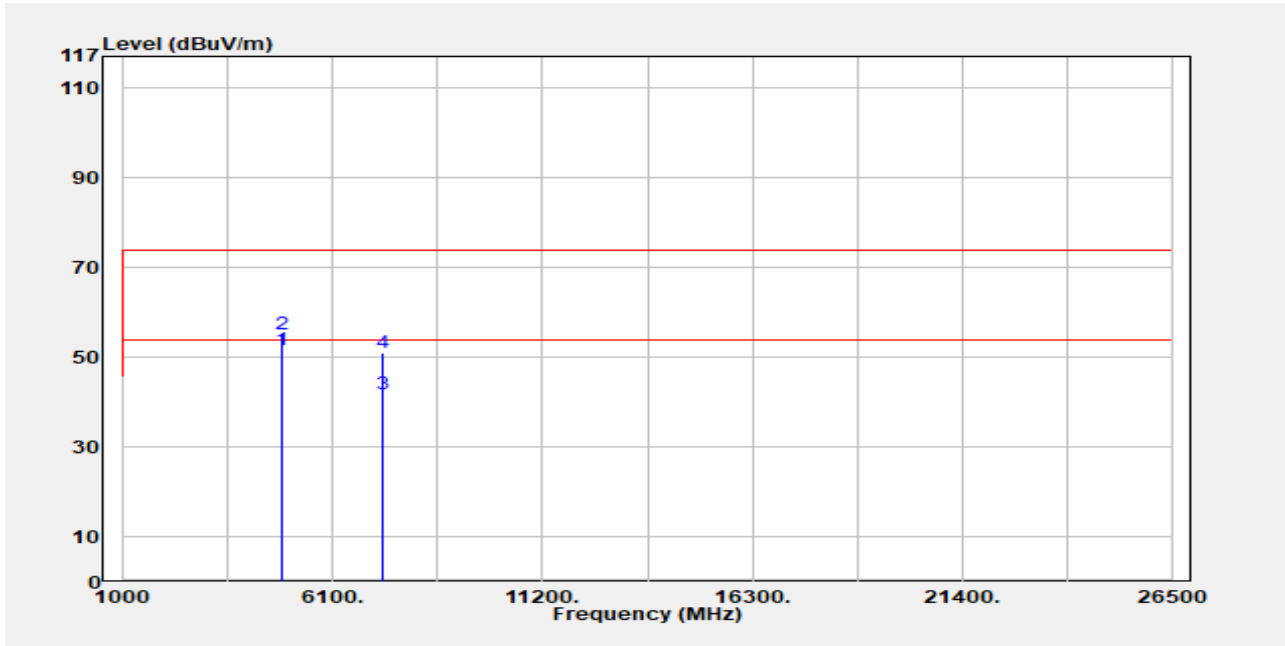
Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	44.14	7.76	51.90	54.00	-2.10
4874.00	Peak	47.29	7.76	55.05	74.00	-18.95
7311.00	Average	26.11	15.23	41.34	54.00	-12.66
7311.00	Peak	35.57	15.23	50.80	74.00	-23.20

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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	43.95	7.76	51.71	54.00	-2.29
4874.00	Peak	47.48	7.76	55.24	74.00	-18.76
7311.00	Average	26.65	15.23	41.88	54.00	-12.12
7311.00	Peak	35.92	15.23	51.14	74.00	-22.86

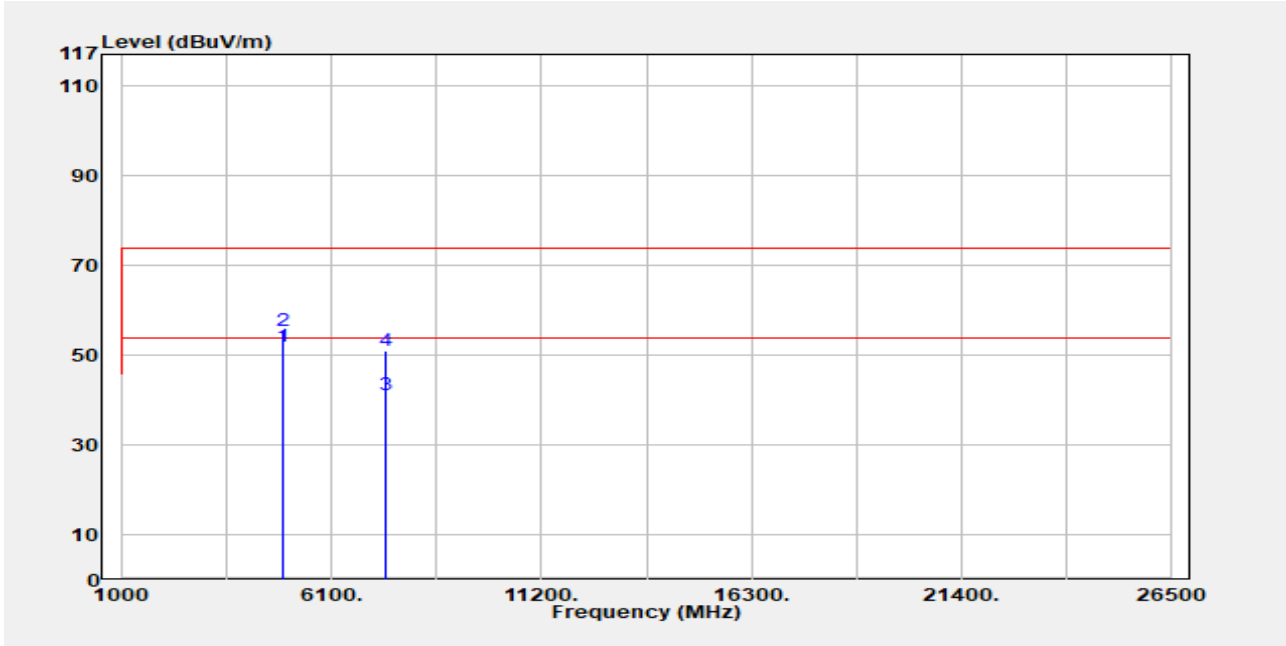
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	44.15	7.83	51.98	54.00	-2.02
4924.00	Peak	47.52	7.83	55.35	74.00	-18.65
7386.00	Average	25.80	15.33	41.13	54.00	-12.87
7386.00	Peak	35.72	15.33	51.05	74.00	-22.95

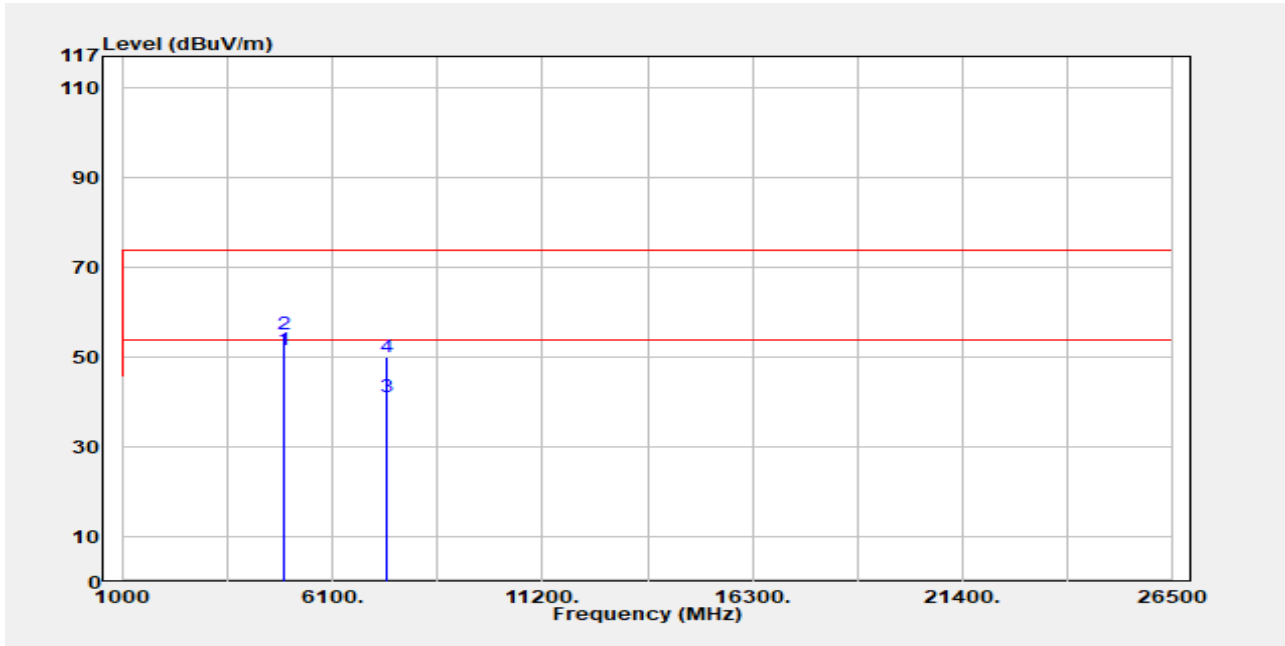
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Report Number :TERF2212002705ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	43.97	7.83	51.80	54.00	-2.20
4924.00	Peak	47.42	7.83	55.25	74.00	-18.75
7386.00	Average	25.92	15.33	41.25	54.00	-12.75
7386.00	Peak	34.76	15.33	50.09	74.00	-23.91

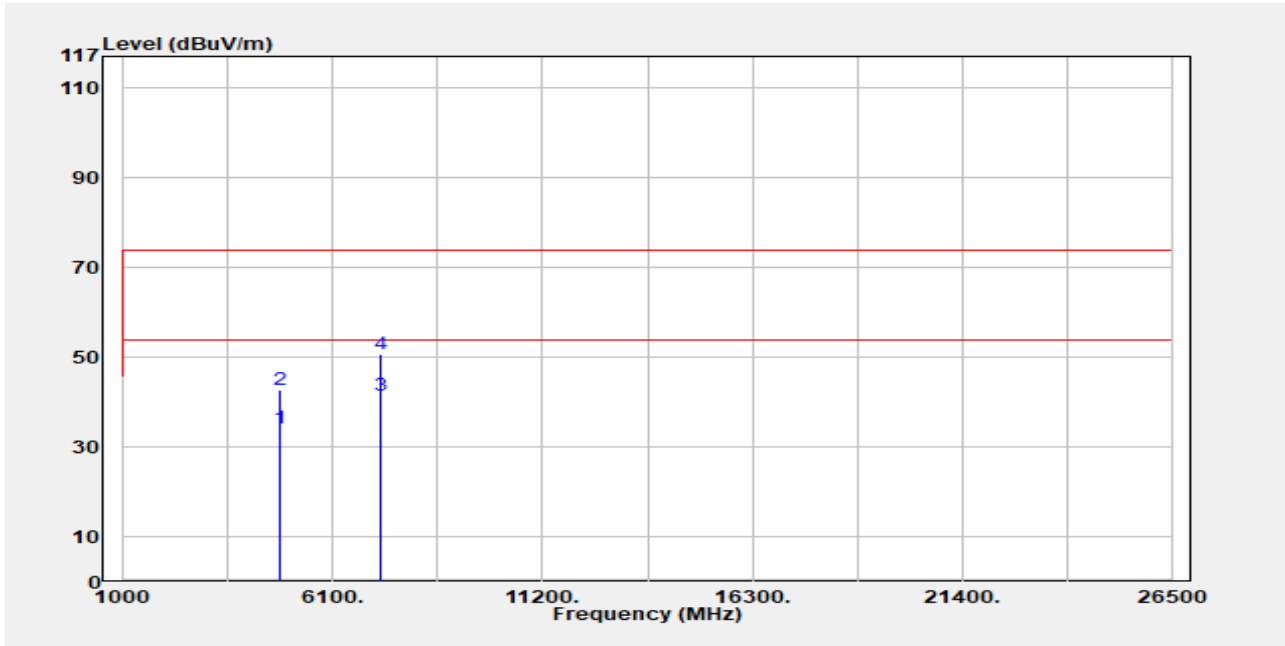
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.29	7.95	34.24	54.00	-19.76
4824.00	Peak	34.74	7.95	42.69	74.00	-31.31
7236.00	Average	26.26	15.18	41.44	54.00	-12.56
7236.00	Peak	35.61	15.18	50.79	74.00	-23.21

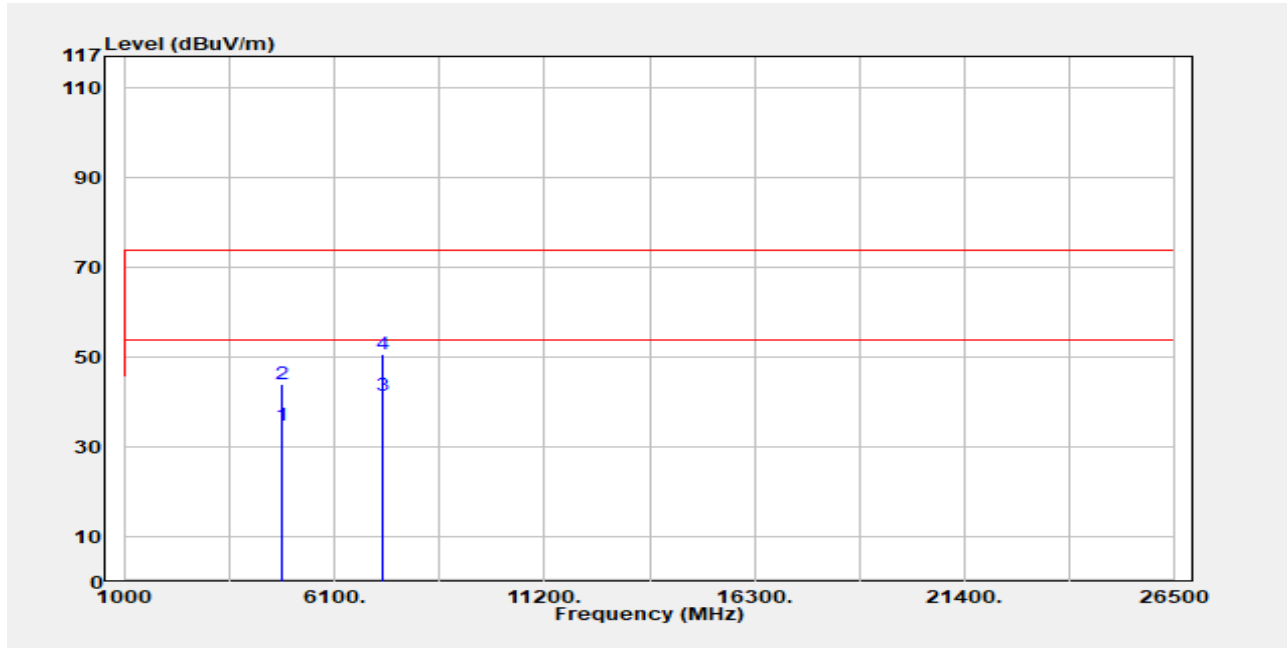
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.83	7.95	34.78	54.00	-19.22
4824.00	Peak	36.28	7.95	44.23	74.00	-29.77
7236.00	Average	26.35	15.18	41.53	54.00	-12.47
7236.00	Peak	35.44	15.18	50.62	74.00	-23.38

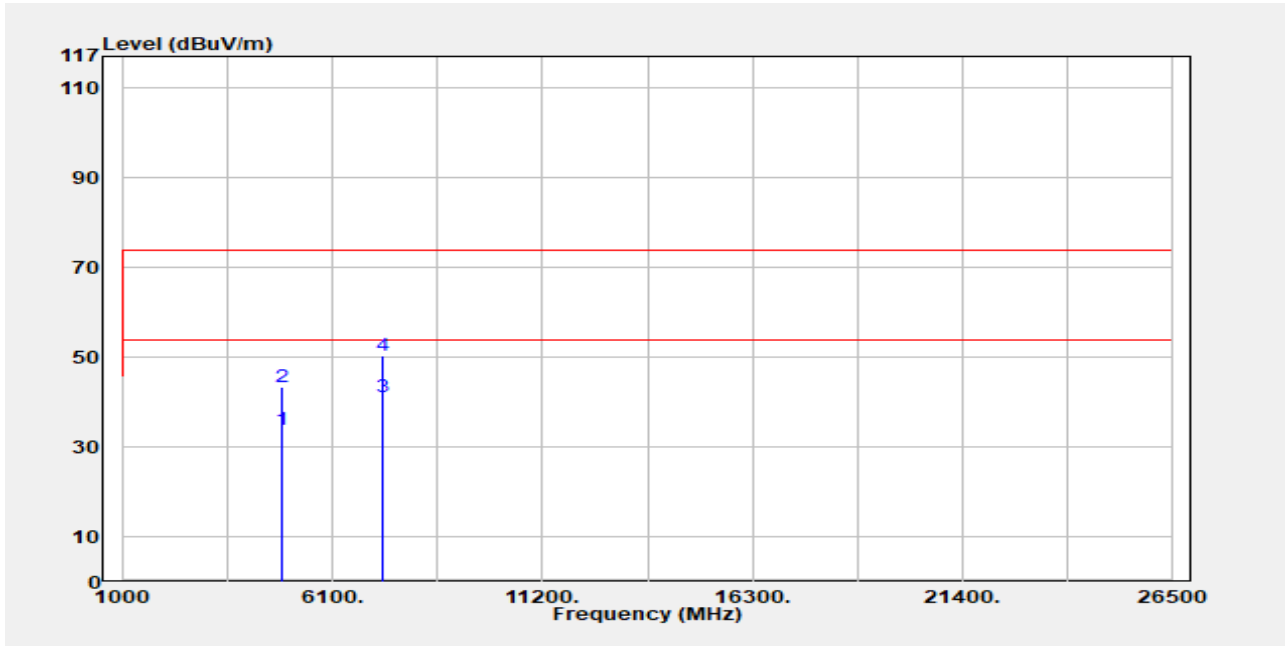
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.20	7.76	33.96	54.00	-20.04
4874.00	Peak	35.61	7.76	43.37	74.00	-30.63
7311.00	Average	25.94	15.23	41.17	54.00	-12.83
7311.00	Peak	35.20	15.23	50.42	74.00	-23.58

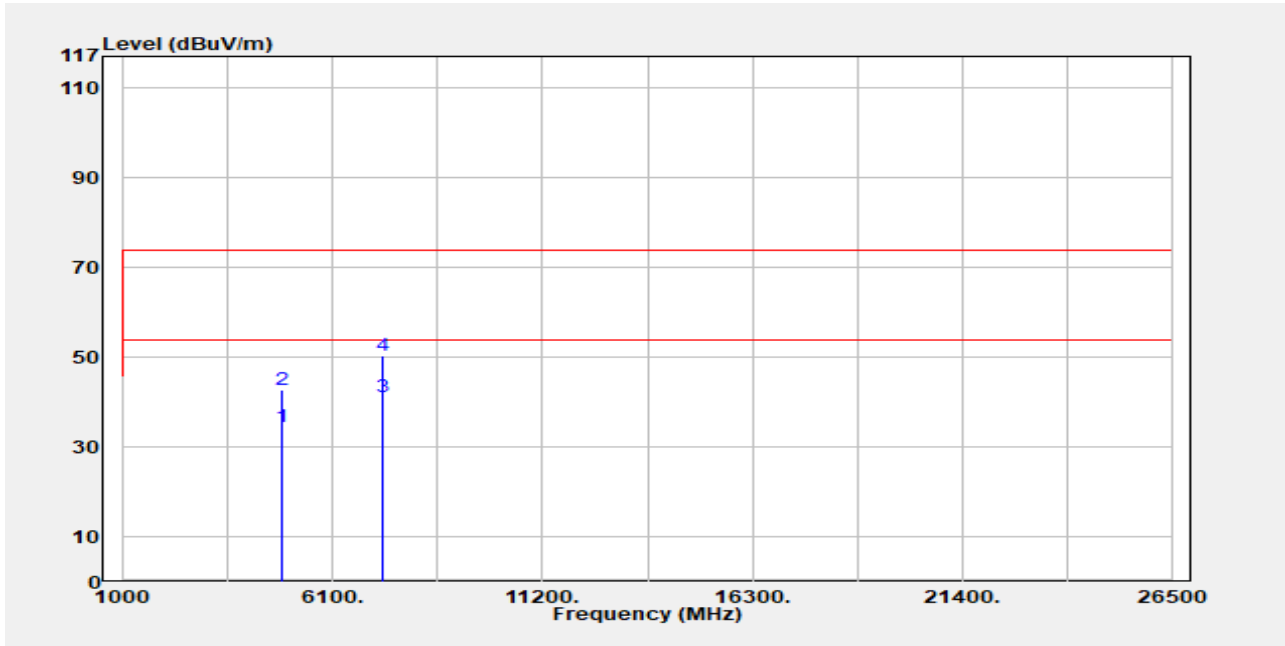
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.67	7.76	34.43	54.00	-19.57
4874.00	Peak	34.97	7.76	42.73	74.00	-31.27
7311.00	Average	25.91	15.23	41.14	54.00	-12.86
7311.00	Peak	35.27	15.23	50.49	74.00	-23.51

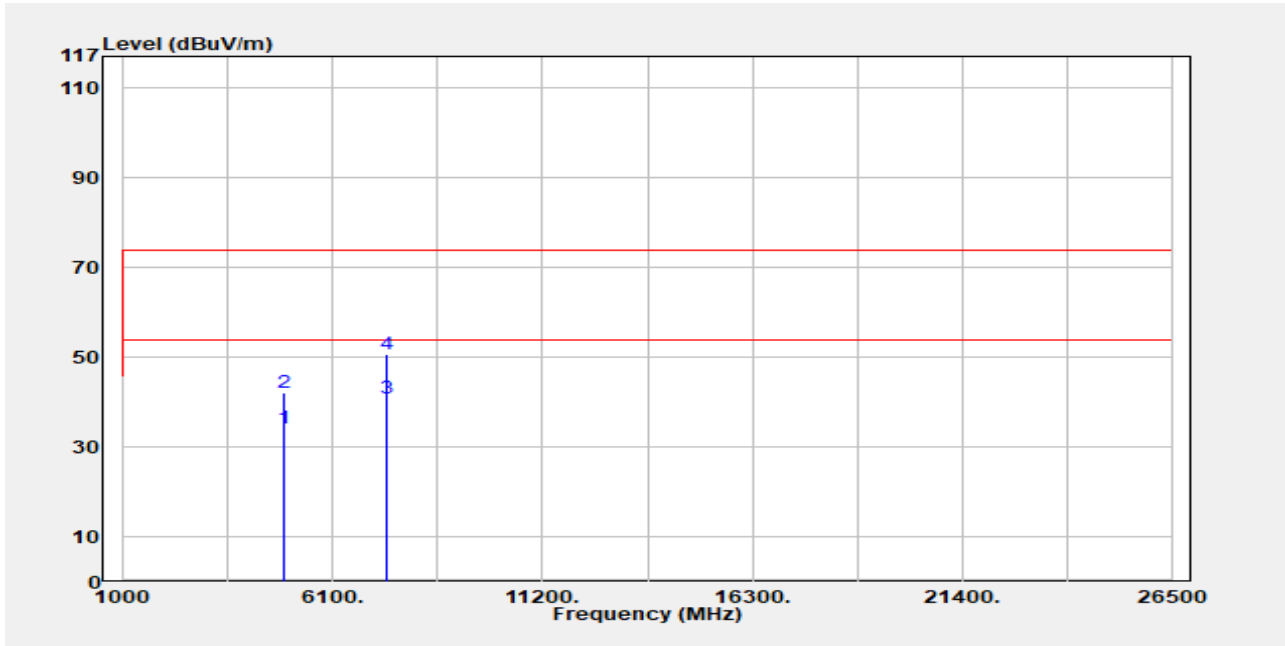
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.28	7.83	34.11	54.00	-19.89
4924.00	Peak	34.46	7.83	42.29	74.00	-31.71
7386.00	Average	25.61	15.33	40.94	54.00	-13.06
7386.00	Peak	35.27	15.33	50.60	74.00	-23.40

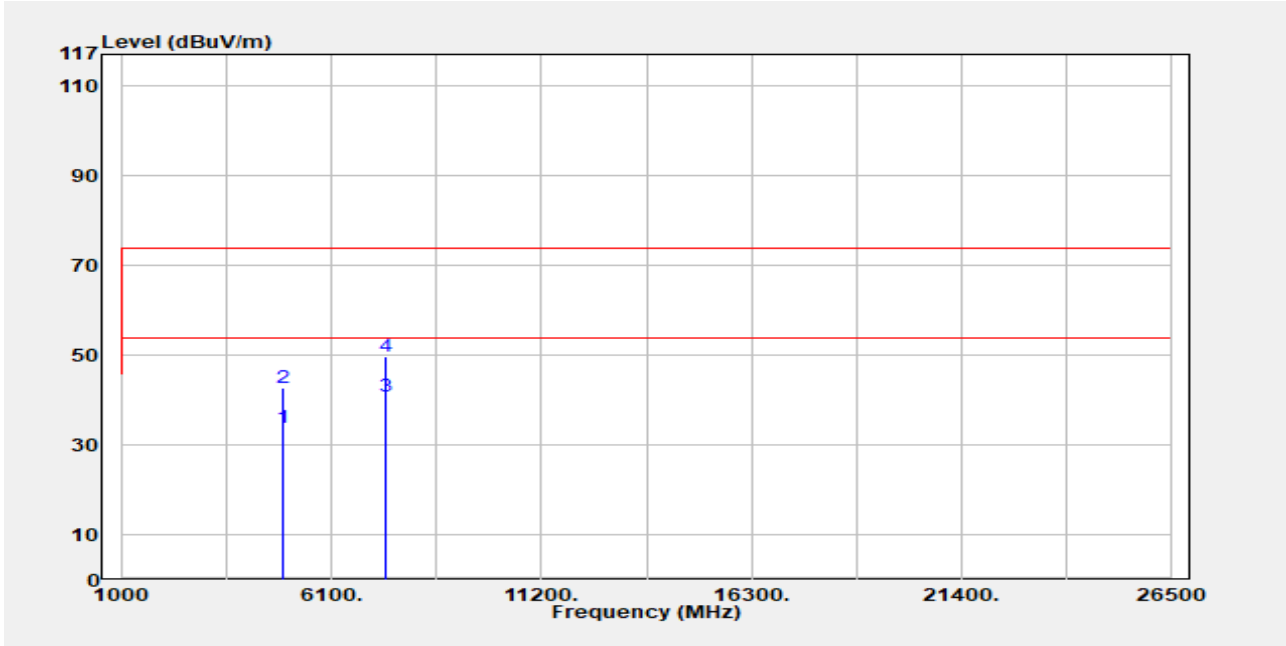
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Report Number :TERF2212002705ER
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.22	7.83	34.05	54.00	-19.95
4924.00	Peak	34.88	7.83	42.71	74.00	-31.29
7386.00	Average	25.57	15.33	40.90	54.00	-13.10
7386.00	Peak	34.39	15.33	49.72	74.00	-24.28

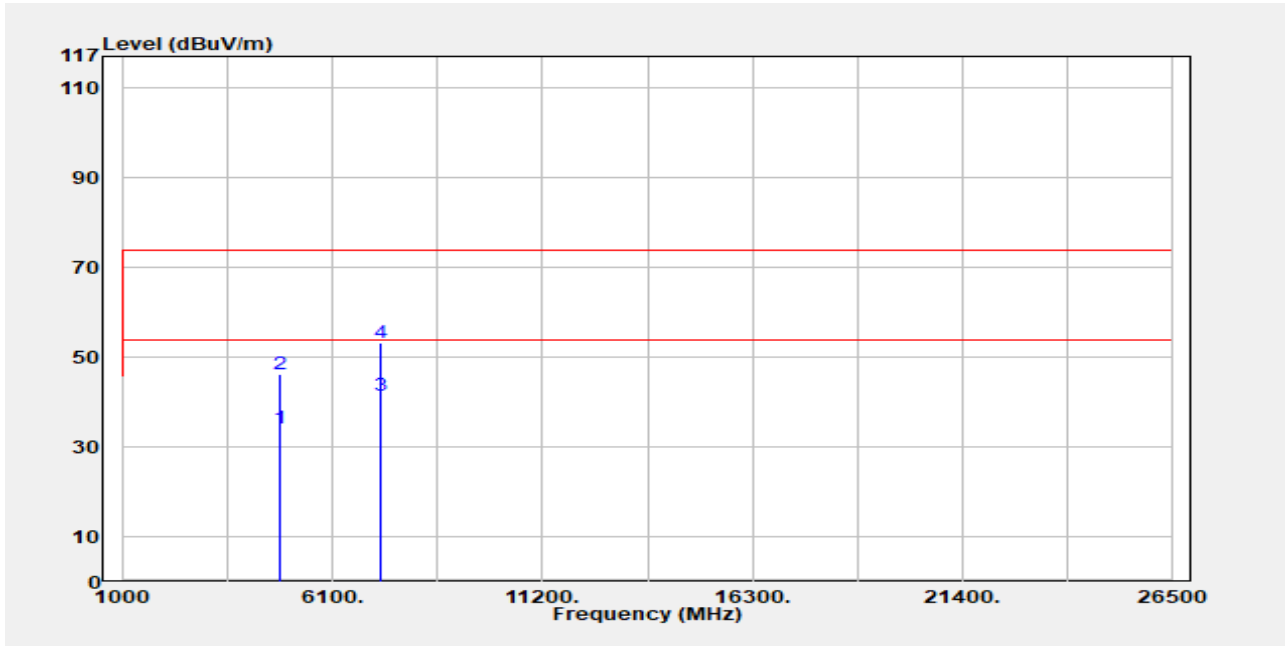
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.25	7.95	34.20	54.00	-19.80
4824.00	Peak	38.21	7.95	46.16	74.00	-27.84
7236.00	Average	26.29	15.18	41.47	54.00	-12.53
7236.00	Peak	38.16	15.18	53.34	74.00	-20.66

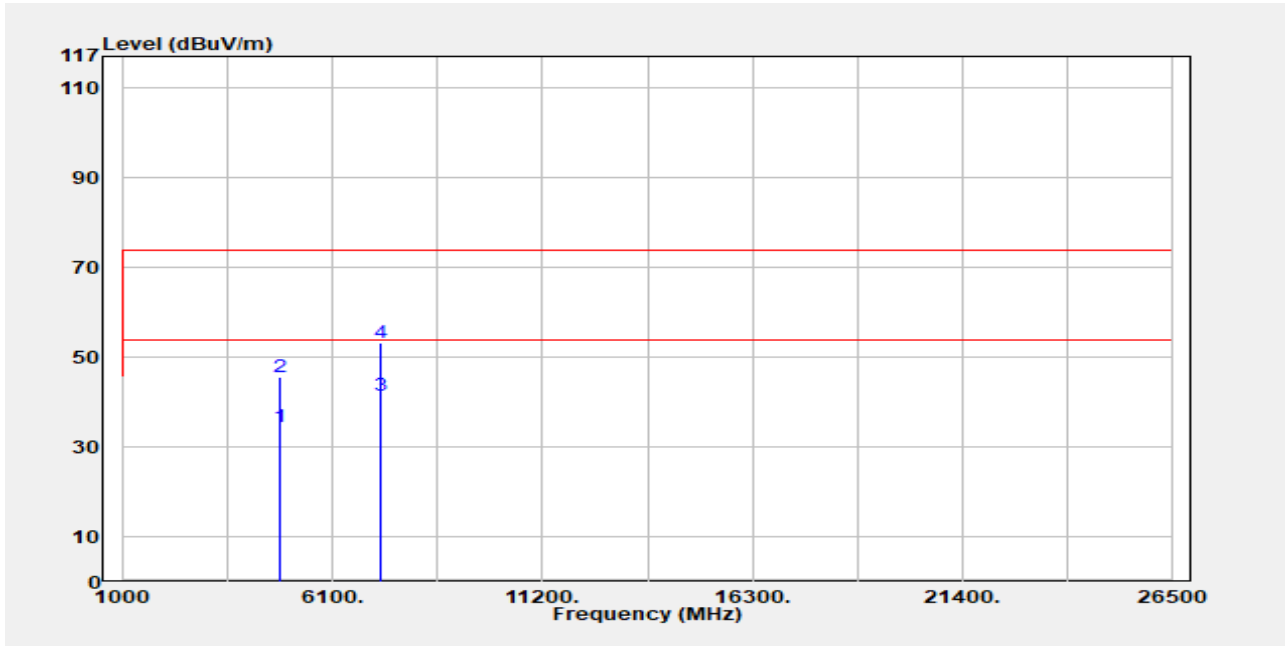
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	26.64	7.95	34.59	54.00	-19.41
4824.00	Peak	37.65	7.95	45.60	74.00	-28.40
7236.00	Average	26.41	15.18	41.59	54.00	-12.41
7236.00	Peak	38.14	15.18	53.32	74.00	-20.68

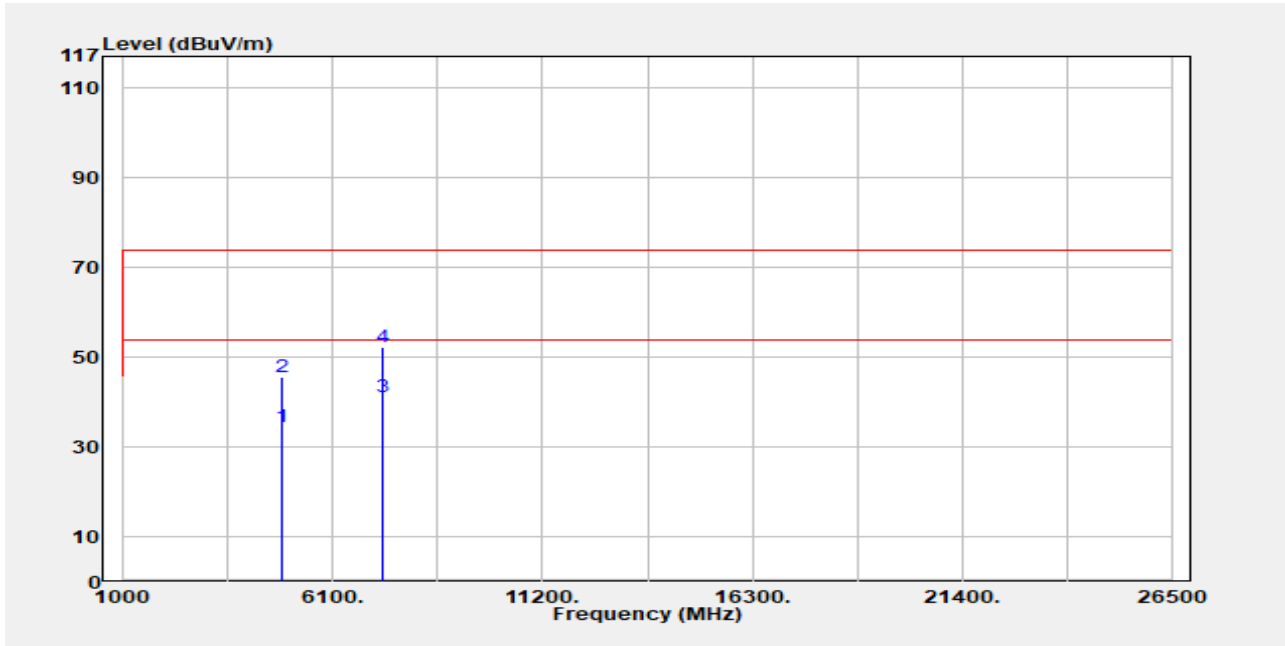
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.66	7.76	34.42	54.00	-19.58
4874.00	Peak	37.87	7.76	45.63	74.00	-28.37
7311.00	Average	25.91	15.23	41.14	54.00	-12.86
7311.00	Peak	37.24	15.23	52.47	74.00	-21.53

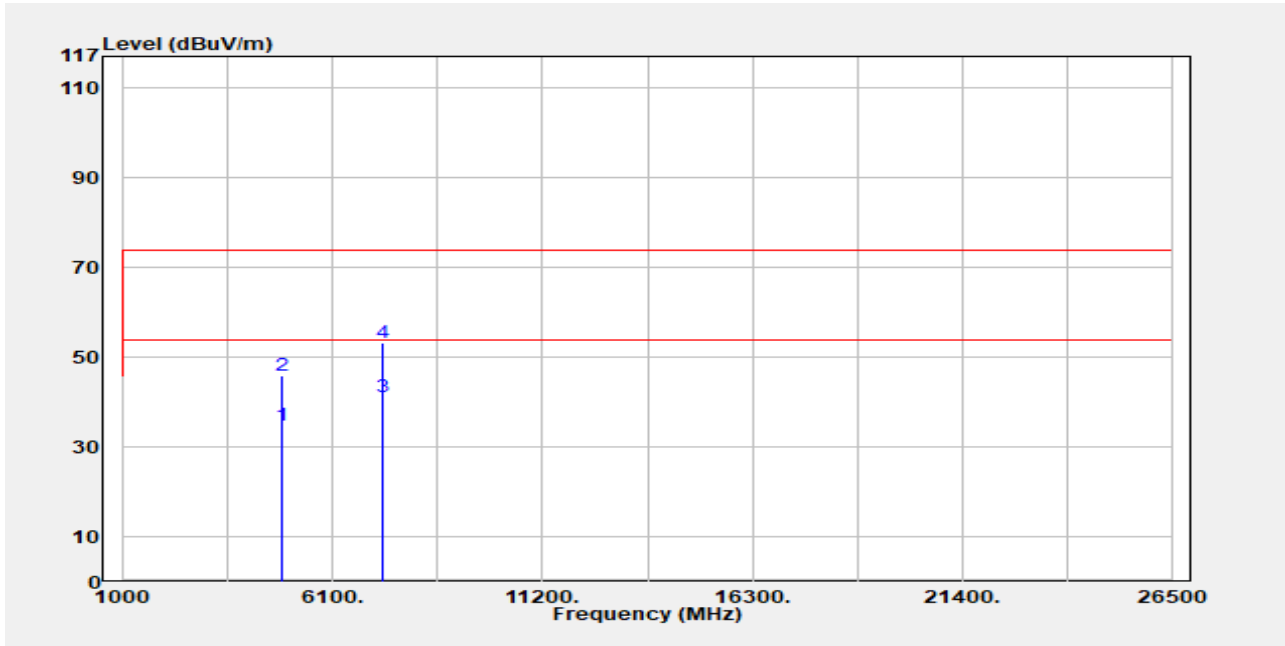
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.26	7.76	35.02	54.00	-18.98
4874.00	Peak	38.12	7.76	45.88	74.00	-28.12
7311.00	Average	25.95	15.23	41.18	54.00	-12.82
7311.00	Peak	37.89	15.23	53.12	74.00	-20.88

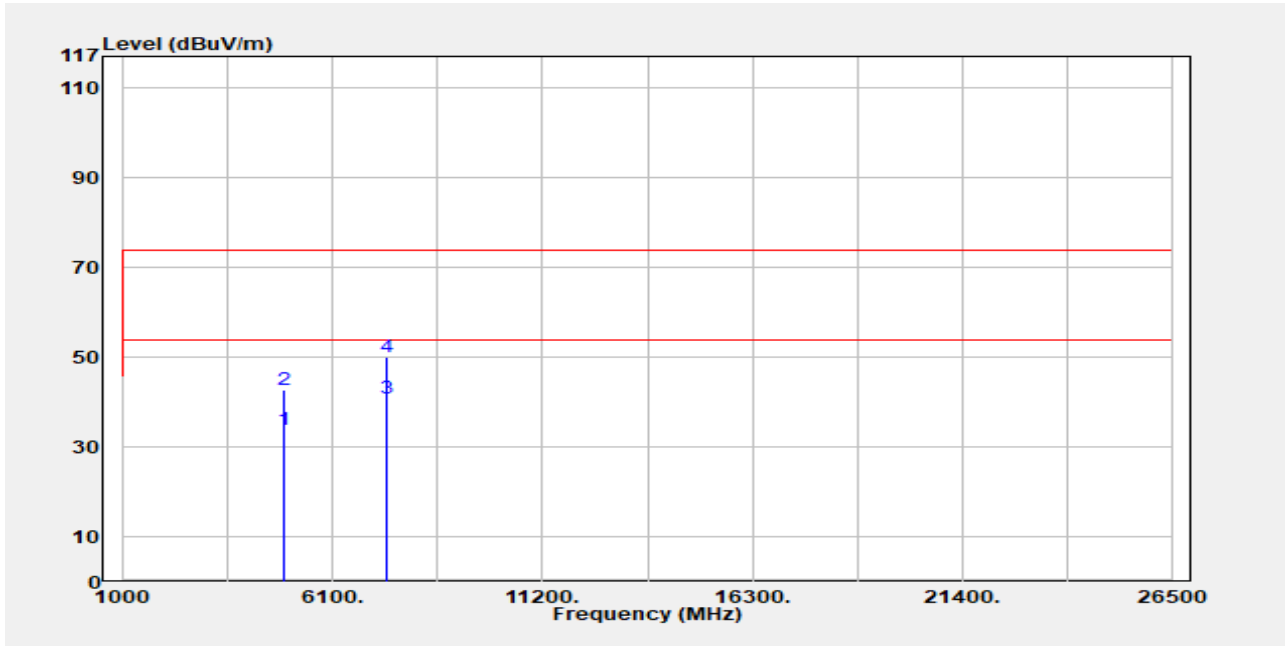
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.12	7.83	33.95	54.00	-20.05
4924.00	Peak	34.90	7.83	42.73	74.00	-31.27
7386.00	Average	25.70	15.33	41.03	54.00	-12.97
7386.00	Peak	34.79	15.33	50.12	74.00	-23.88

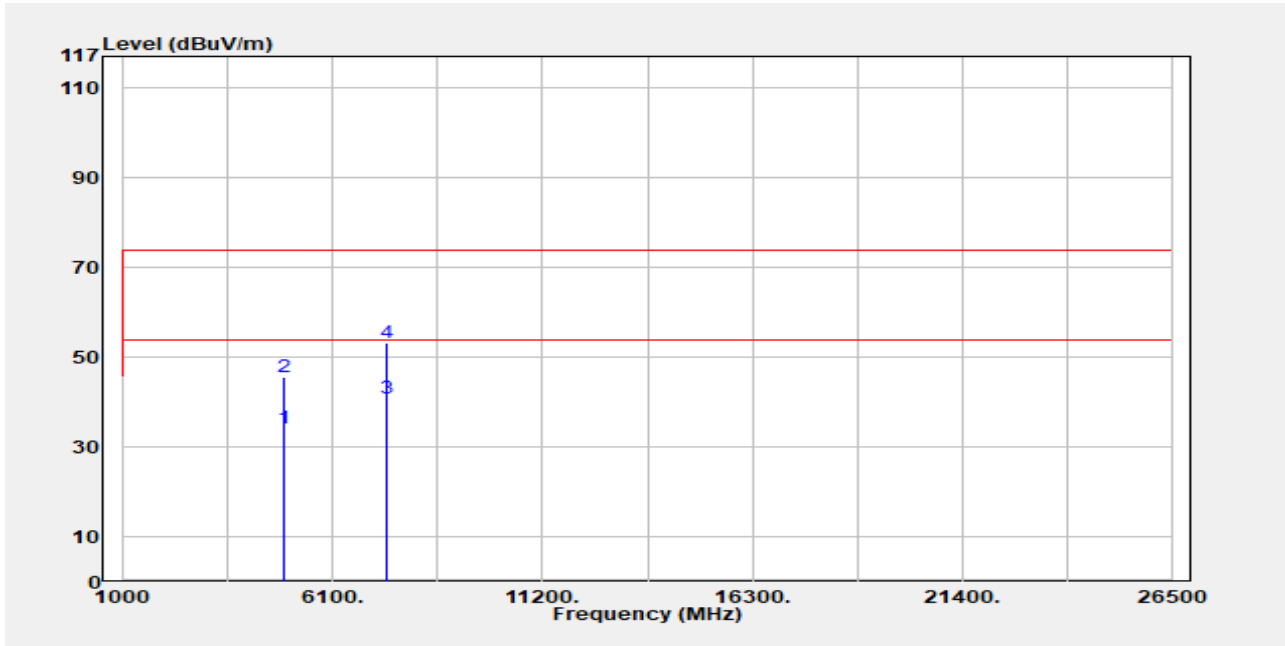
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Report Number :TERF2212002705ER
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	26.41	7.83	34.24	54.00	-19.76
4924.00	Peak	37.82	7.83	45.65	74.00	-28.35
7386.00	Average	25.61	15.33	40.94	54.00	-13.06
7386.00	Peak	37.79	15.33	53.12	74.00	-20.88

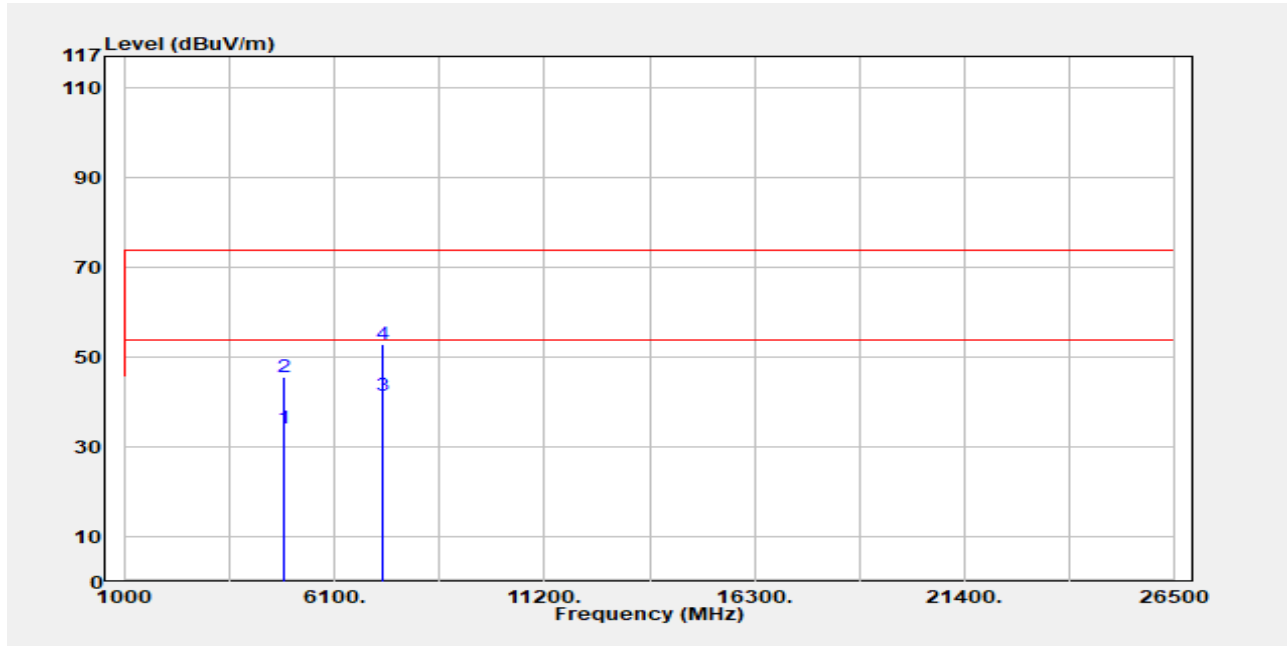
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.29	8.03	34.32	54.00	-19.68
4844.00	Peak	37.58	8.03	45.61	74.00	-28.39
7266.00	Average	26.43	15.07	41.50	54.00	-12.50
7266.00	Peak	37.84	15.07	52.91	74.00	-21.09

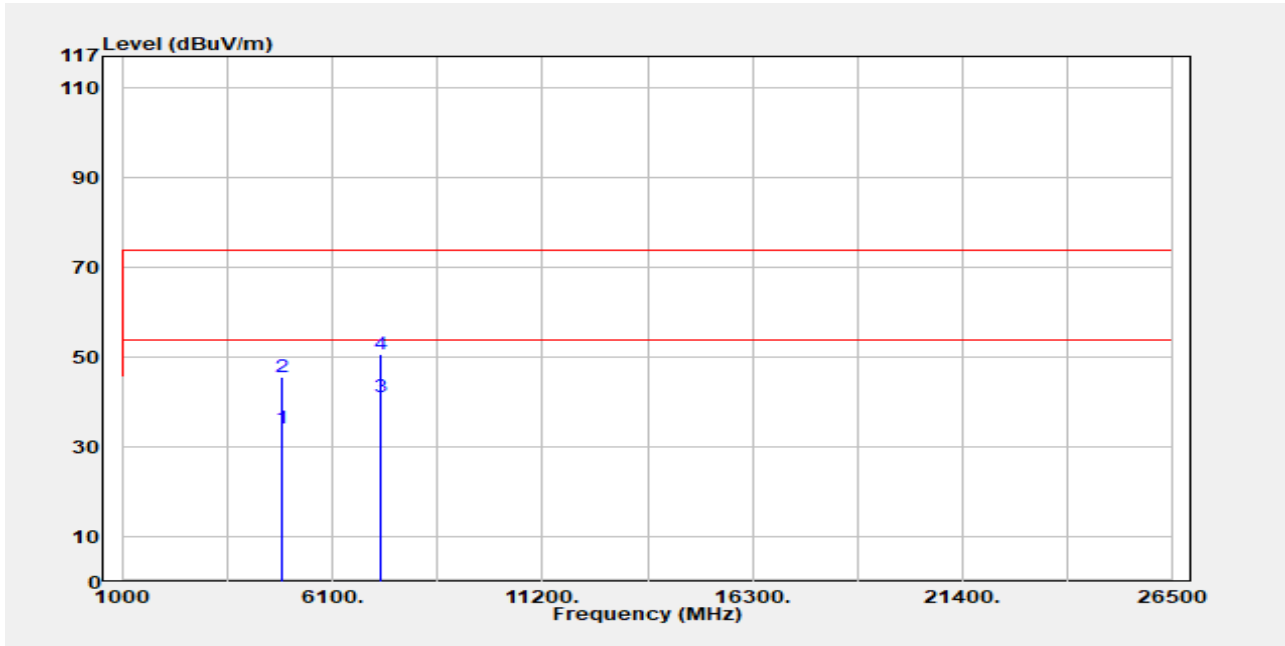
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	26.31	8.03	34.34	54.00	-19.66
4844.00	Peak	37.77	8.03	45.80	74.00	-28.20
7266.00	Average	26.23	15.07	41.30	54.00	-12.70
7266.00	Peak	35.67	15.07	50.74	74.00	-23.26

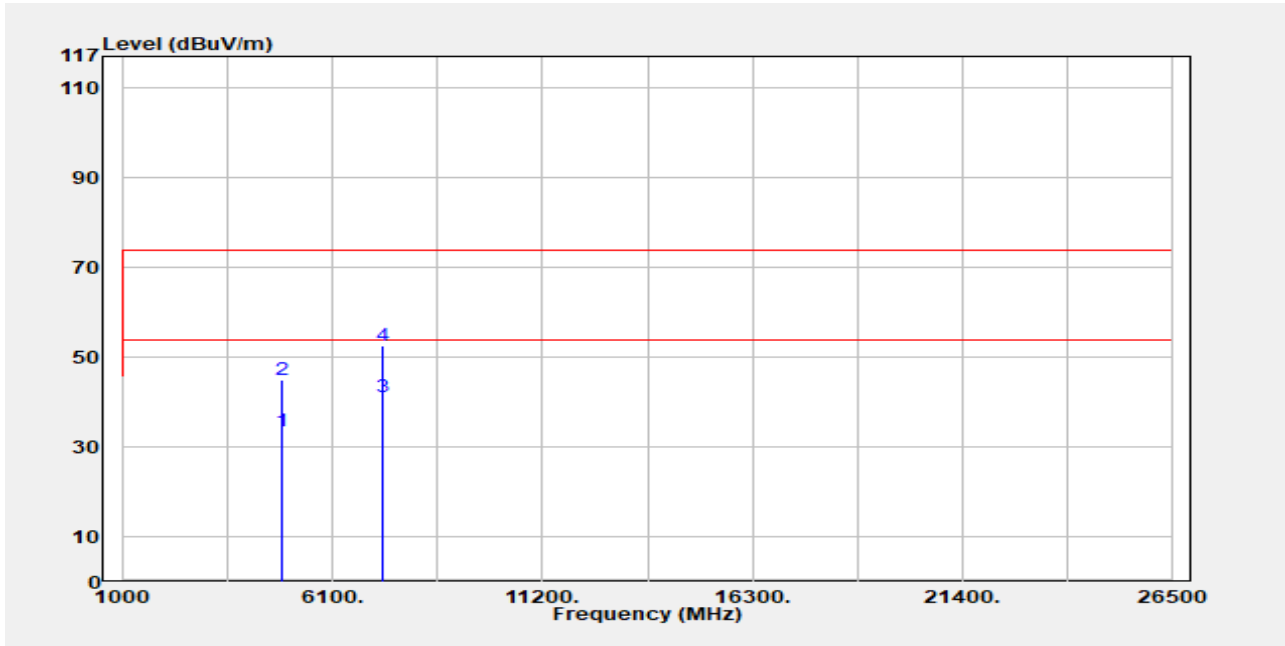
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	26.00	7.76	33.76	54.00	-20.24
4874.00	Peak	37.41	7.76	45.17	74.00	-28.83
7311.00	Average	26.11	15.23	41.34	54.00	-12.66
7311.00	Peak	37.50	15.23	52.73	74.00	-21.27

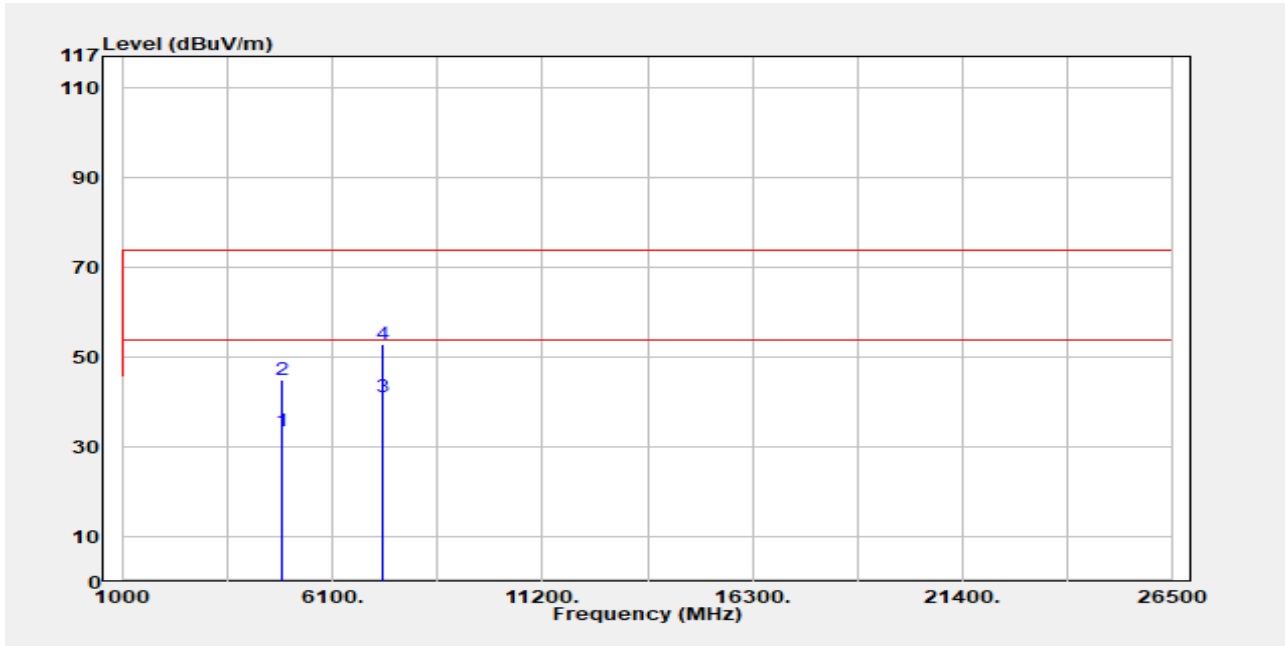
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	25.90	7.76	33.66	54.00	-20.34
4874.00	Peak	37.34	7.76	45.10	74.00	-28.90
7311.00	Average	26.10	15.23	41.33	54.00	-12.67
7311.00	Peak	37.58	15.23	52.81	74.00	-21.19

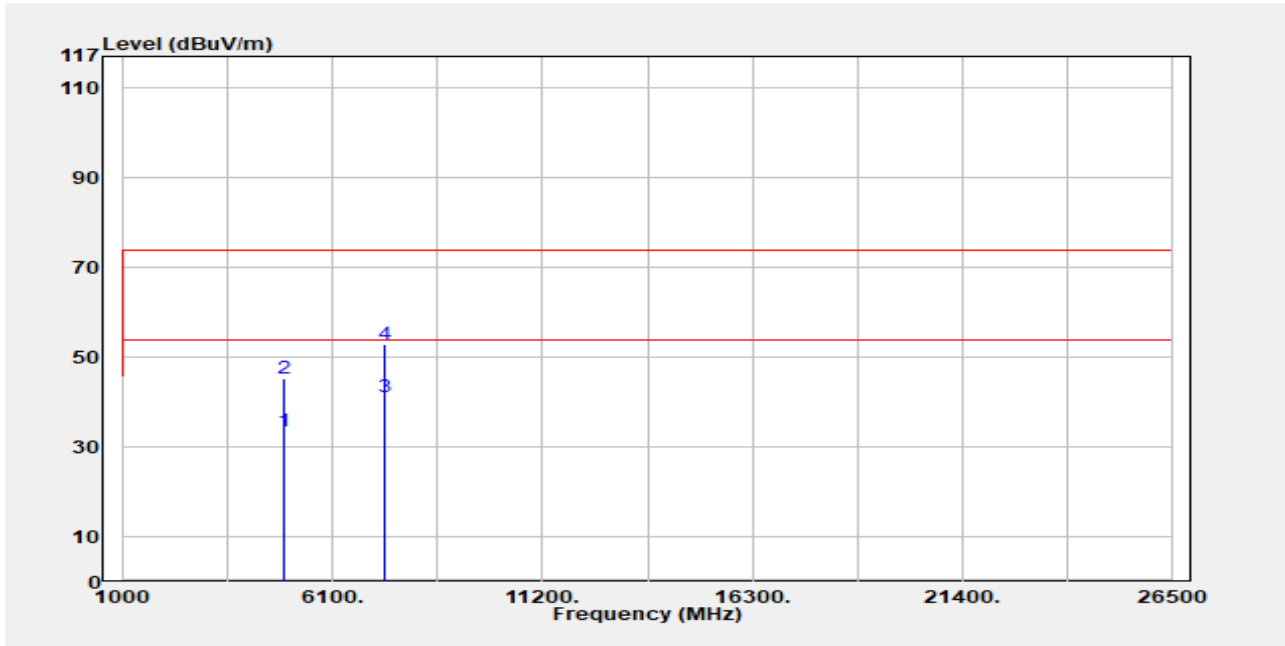
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Vertical
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.14	7.60	33.74	54.00	-20.26
4904.00	Peak	37.73	7.60	45.33	74.00	-28.67
7356.00	Average	25.80	15.37	41.17	54.00	-12.83
7356.00	Peak	37.66	15.37	53.03	74.00	-20.97

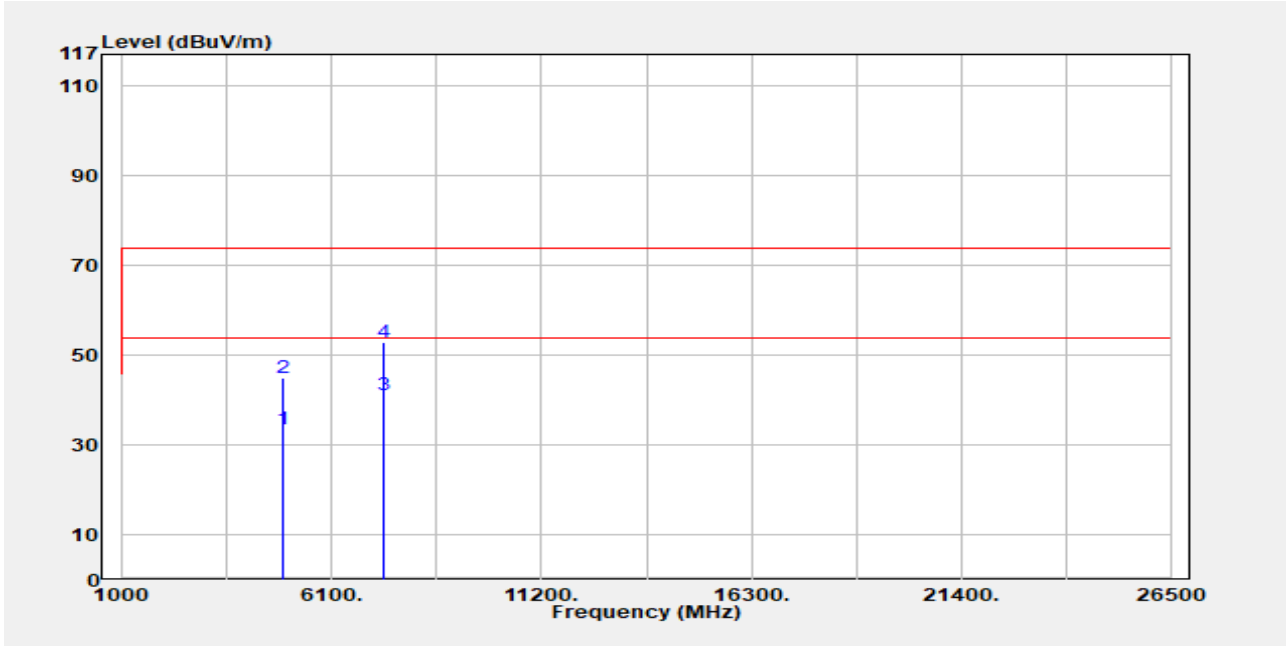
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Report Number :TERF2212002705ER
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2023-02-17
 Temp./Humi. :21.4/51
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	Average	26.12	7.60	33.72	54.00	-20.28
4904.00	Peak	37.46	7.60	45.06	74.00	-28.94
7356.00	Average	25.78	15.37	41.15	54.00	-12.85
7356.00	Peak	37.62	15.37	52.99	74.00	-21.01

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12 POWER SPECTRAL DENSITY

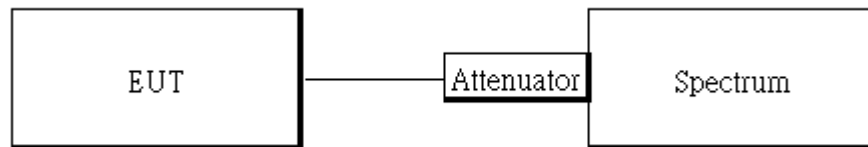
12.1 Standard Applicable

Per Part 15.247 (e)

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

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

12.2 Test Setup



12.3 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Note:

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

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12.4 As per FCC KDB 662911 D01

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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