

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_AI2302

Report Number: TERF2305001081ER

FCC ID MSQAI2302

Date of EUT Received: April 24, 2023

Date of Test: May 02, 2023~June 15, 2023

Issue Date: July 26, 2023

Approved By _____

Blue Yang

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.

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
TERF2305001081ER	00	Original	July 17, 2023	Violetta Tang	
TERF2305001081ER	01	Updated section 1.2 & 8.4.3	July 26, 2023	Violetta Tang	*

Note:

- 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:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_AI2302
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	R4AIB7N004712UM
Power Supply:	3.89 Vdc from Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC Adapter
Test Software (Name/Version)	QRCT v4.0.210.0 & QRCT v4.0.81.1

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1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2462	11	26.58	23.94	DSSS
802.11g	2412~2462	11	28.65	22.95	OFDM
802.11n20	2412~2462	11	28.96	23.18	OFDM
802.11n40	2422~2452	7	19.36	13.22	OFDM
802.11ax20	2412~2462	11	28.97	22.75	OFDMA
802.11ax40	2422~2452	7	18.78	12.49	OFDMA
802.11be20	2412~2462	11	29.00	22.75	OFDMA
802.11be40	2422~2452	7	18.87	12.62	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS			
		64QAM, 16QAM, QPSK, BPSK for OFDM			
		4096 QAM, 1024 QAM, 256 QAM , 64QAM, 16QAM, QPSK, BPSK for OFDMA			
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			
		802.11 ax_20MHz:up to 286.8Mbps			
		802.11 ax_40MHz:up to 573.6Mbps			
		802.11 be_20MHz:up to 344Mbps			
802.11 be_40MHz:up to 688Mbps					

1.3 Antenna Designation

Antenna Type	Supplier	Antenna No.	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ASUS	ANT 7	AI2302	2412-2462	-0.69
		ANT 8			-3.77

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
 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	
		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 a 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 a 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:

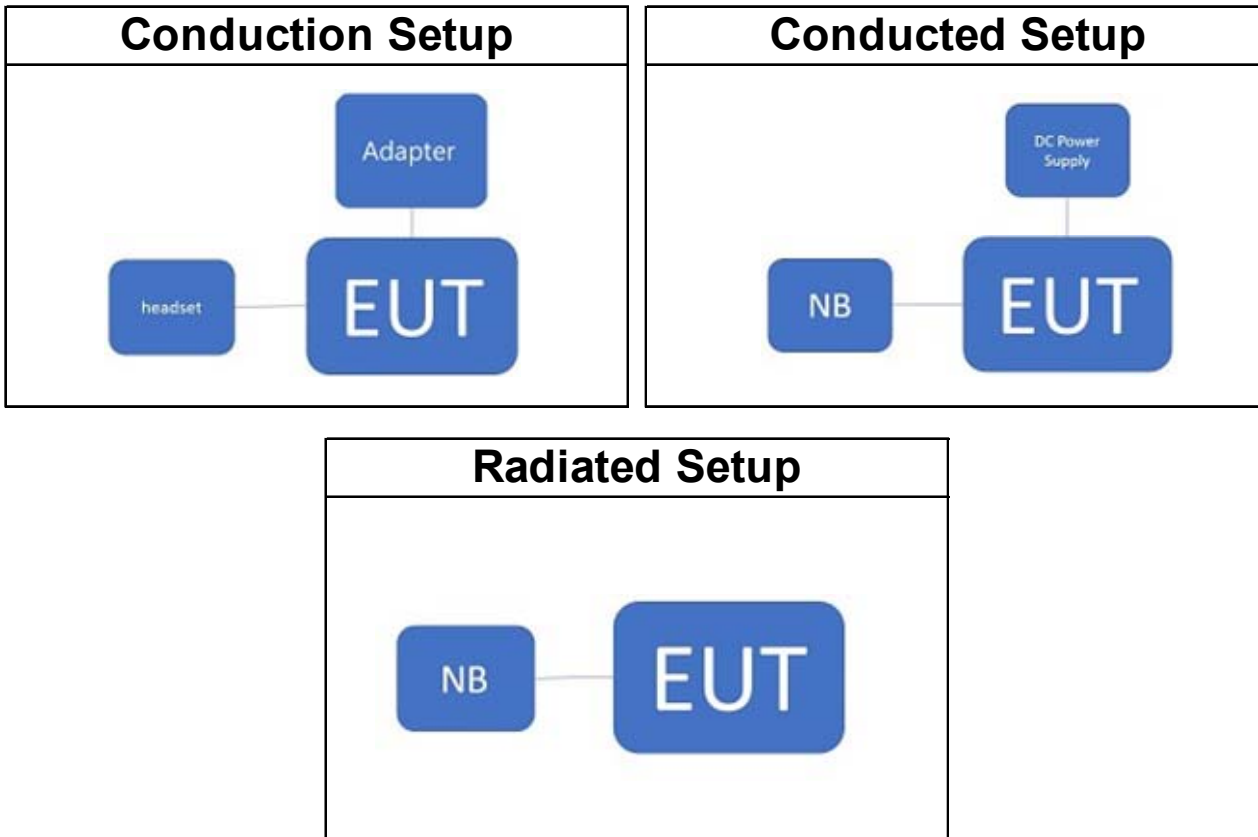
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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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	PI	AD2166320	N/A	N/A	N/A
Adapter	京泉華	NCA30UU-20012501	N/A	N/A	N/A
earphone	1MORE	EA010B	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-014TAK 14/10	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	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		
9	2452		
10	2457		
11	2462		

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4.2 The Worst Test Modes and Channel Details

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

The given UE is pre-scanned among below modes.

Modulation		Transmission Chain						Single Transmission Spatial	Multi Transmission Spatial				
v	802.11 b	v	Ch0	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
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 be	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.
5. Observations have been done for 802.11be available RU configurations below and found that the lowest, highest and Full RU results higher emissions. Only one RU can be enabled at any given time.
6. The EUT is support 26/52/106/242/484 tone RU for ax and be mode, the MRU support 52+26/106+26 tone for be mode
7. The PSD of partial RU is smaller than full RU following TCB workshop interim guidance Oct.2022
8. The power tune-up of ax HE20/HE40 mode are same with be EHT20/EHT40 mode, the all test is covered by be mode

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Conducted				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,3,6,7,8,9,10,11	1	2TX
802.11g	1 to 11	1,2,3,4,5,6,7,8,9,10,11	6	2TX
802.11n (HT20)	1 to 11	1,2,3,4,5,6,7,8,9,10,11	MCS0	2TX
802.11n (HT40)	3 to 9	3,4,5,6,7,8,9	MCS0	2TX
802.11be (EHT20)	1 to 11	1,2,3,4,5,6,7,8,9,10,11	MCS0	2TX
802.11be (EHT40)	3 to 9	3,4,5,6,7,8,9	MCS0	2TX

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

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,3,6,7,8,9,10,11	1	2TX
802.11g	1 to 11	1 to 11	6	2TX
802.11n (HT20)	1 to 11	1 to 11	MCS0	2TX
802.11n (HT40)	3 to 9	3 to 9	MCS0	2TX
802.11be (EHT20)	1 to 11	1 to 11	MCS0	2TX
802.11be (EHT40)	3 to 9	3 to 9	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	ESR 7	102525	02/18/2023	02/17/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
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 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	2132007	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911391	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911392	09/21/2022	09/20/2023
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/16/2023	01/15/2024
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2022	09/26/2023
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023
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	EMC118A45SEE	980868	12/13/2022	12/12/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	HP	8447D	2944A07676	12/13/2022	12/12/2023
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M1	12/13/2022	12/12/2023
High Pass Filter	WI	WHKX4.0/18G-10SS	22	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	MY4251/4PEA	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-500	221104	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-1000	221103	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-1500	221110	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-8000	221109	12/13/2022	12/12/2023
Site Cal	SGS	SAC 3	N/A	01/01/2023	12/31/2023
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

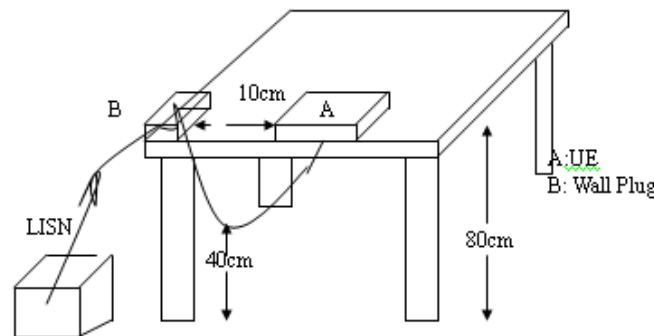
Note

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

7.2 EUT Setup

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

7.3 Test Setup



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

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7.5 Measurement Result

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

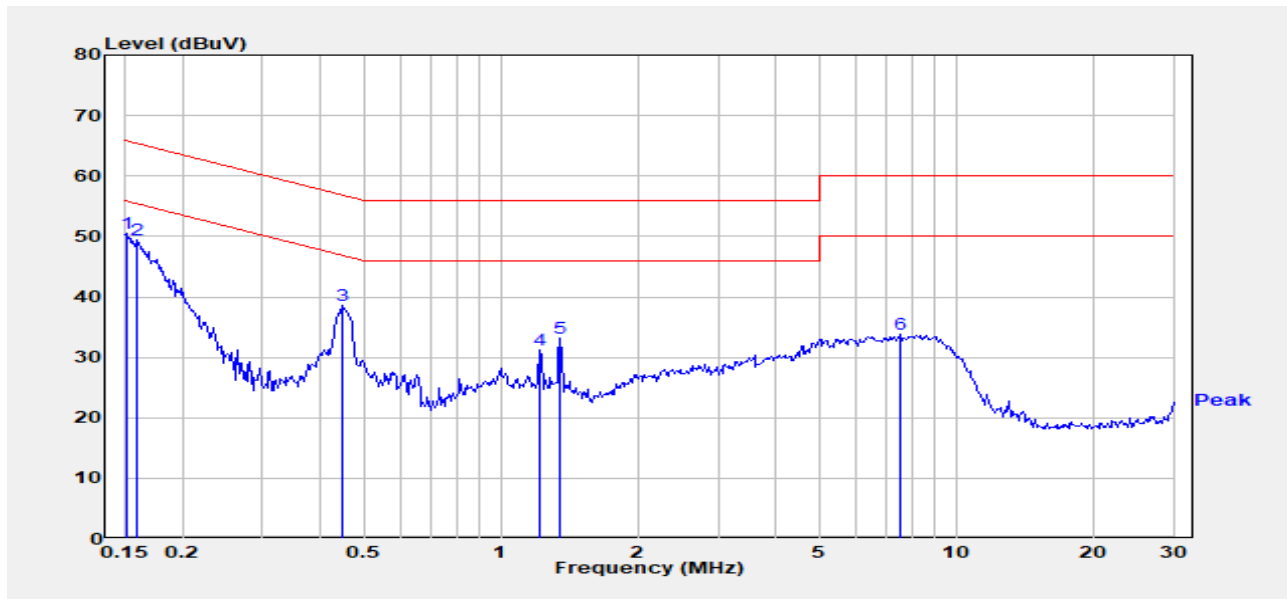
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2305001081ER	Test Site	:Conduction 1
Test Mode	:Operation (WLAN2.4G)	Test Date	:2023-05-16
Power	:120V/60Hz	Temp./Humi.	:25.6/62
Probe	:L	Engineer	:Nick Lin
Note:	:Adapter A299-200150U-US		



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	40.21	10.25	50.46	65.94	-15.47
0.158	Peak	39.11	10.25	49.36	65.55	-16.20
0.450	Peak	28.25	10.25	38.50	56.88	-18.38
1.220	Peak	20.69	10.57	31.25	56.00	-24.75
1.349	Peak	22.41	10.67	33.08	56.00	-22.92
7.531	Peak	23.22	10.60	33.82	60.00	-26.18

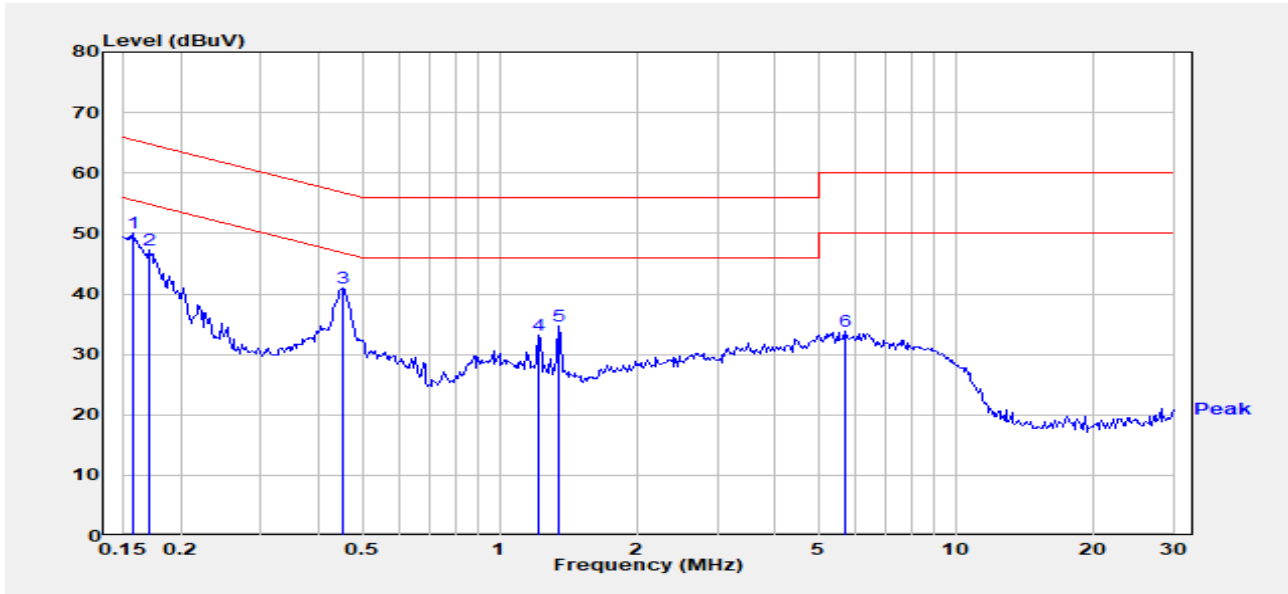
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Report Number :TERF2305001081ER
 Test Mode :Operation (WLAN2.4G)
 Power :120V/60Hz
 Probe :N
 Note: :Adapter A299-200150U-US

Test Site :Conduction 1
 Test Date :2023-05-16
 Temp./Humi. :25.6/62
 Engineer :Nick 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
0.157	Peak	39.94	10.25	50.19	65.62	-15.43
0.171	Peak	36.94	10.25	47.19	64.92	-17.73
0.453	Peak	30.74	10.25	40.99	56.82	-15.83
1.220	Peak	22.54	10.57	33.11	56.00	-22.89
1.349	Peak	23.96	10.67	34.63	56.00	-21.37
5.712	Peak	23.19	10.57	33.75	60.00	-26.25

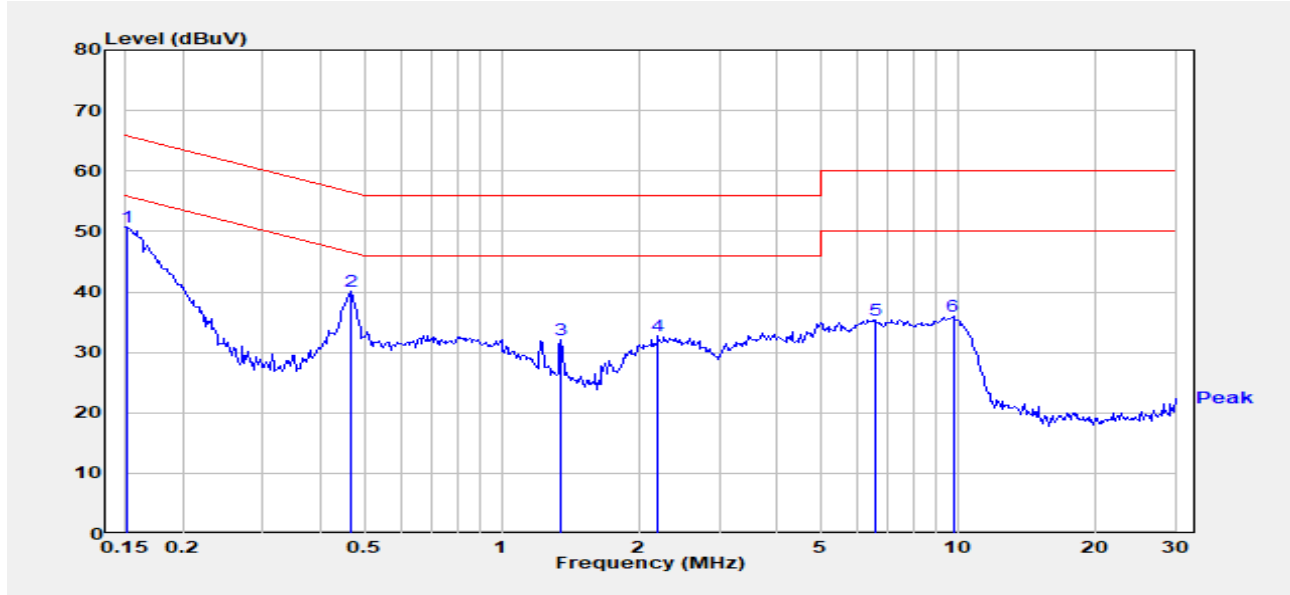
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Report Number :TERF2305001081ER
 Test Mode :Operation (WLAN2.4G)
 Power :240V/60Hz
 Probe :L
 Note: :Adapter A299-200150U-US

Test Site :Conduction 1
 Test Date :2023-05-16
 Temp./Humi. :25.6/62
 Engineer :Nick Lin



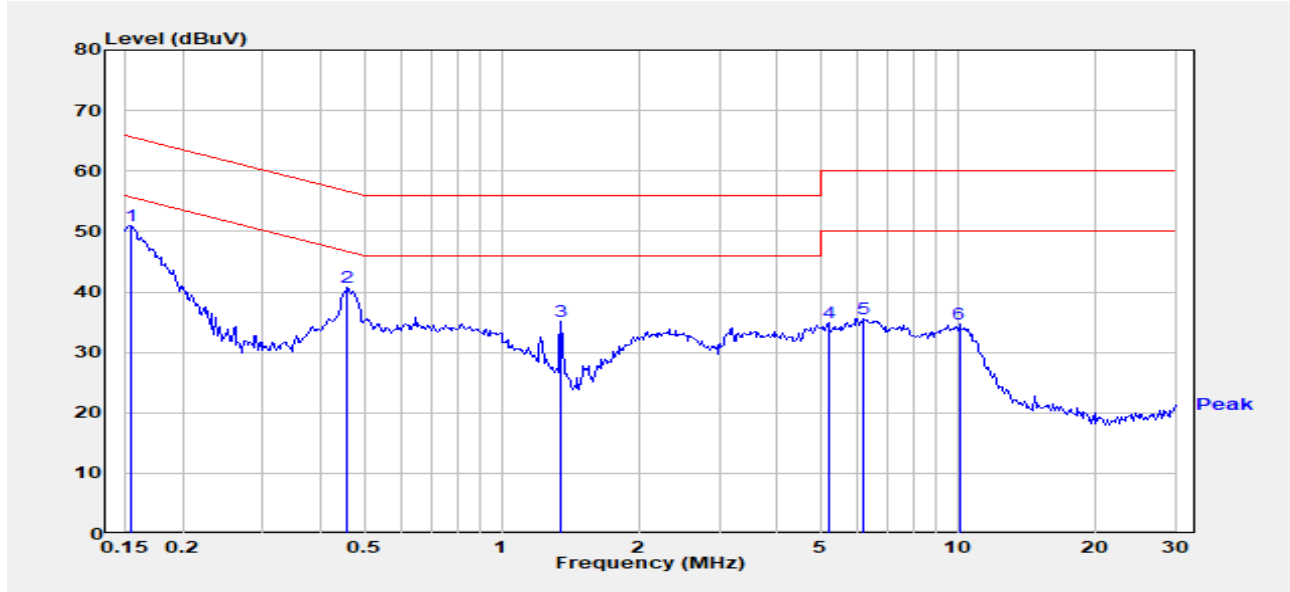
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.151	Peak	40.48	10.25	50.73	65.94	-15.21
0.467	Peak	29.92	10.25	40.17	56.56	-16.39
1.349	Peak	21.50	10.67	32.17	56.00	-23.83
2.204	Peak	21.64	11.02	32.66	56.00	-23.34
6.609	Peak	24.86	10.58	35.44	60.00	-24.56
9.778	Peak	25.29	10.64	35.93	60.00	-24.07

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Report Number :TERF2305001081ER
 Test Mode :Operation (WLAN2.4G)
 Power :240V/60Hz
 Probe :N
 Note: :Adapter A299-200150U-US

Test Site :Conduction 1
 Test Date :2023-05-16
 Temp./Humi. :25.6/62
 Engineer :Nick 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
0.153	Peak	40.68	10.25	50.93	65.81	-14.88
0.460	Peak	30.49	10.25	40.74	56.69	-15.95
1.349	Peak	24.37	10.67	35.04	56.00	-20.96
5.209	Peak	24.38	10.56	34.94	60.00	-25.06
6.216	Peak	25.08	10.58	35.66	60.00	-24.34
10.083	Peak	24.04	10.63	34.68	60.00	-25.32

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle

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

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

8.1.2 FCC

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

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power 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.

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

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;

G_k is the gain in dBi of the kth antenna.

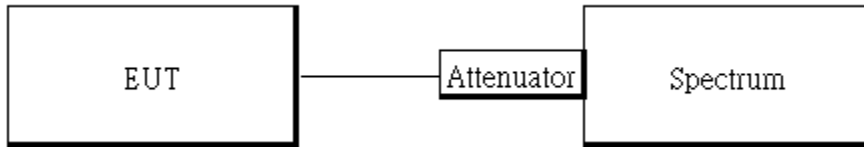
The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

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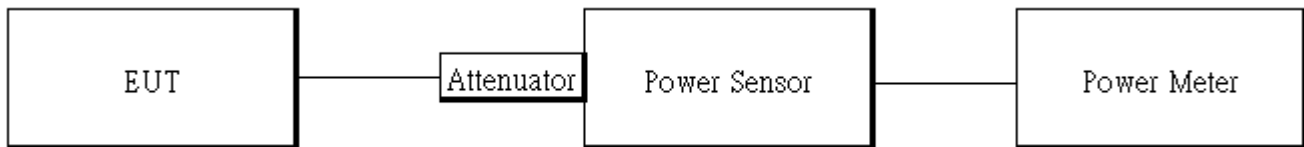
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8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



8.3 Measurement Procedure

8.3.1 Duty Cycle:

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

8.3.2 Output Power

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

Power Meter:

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

4. Record the max. Reading as observed from Spectrum or Power Meter.
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.

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

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8.4 Measurement Result

8.4.1 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	97.36	0.12	1.51	2.00
802.11g	99.20	0.03	0.48	0.01
802.11n_20	99.67	0.01	0.18	0.01
802.11n_40	99.62	0.02	0.21	0.01
802.11ax_20	99.67	0.01	0.18	0.01
802.11ax_40	99.59	0.02	0.24	0.01
802.11be_20	99.67	0.01	0.18	0.01
802.11be_40	99.56	0.02	0.24	0.01

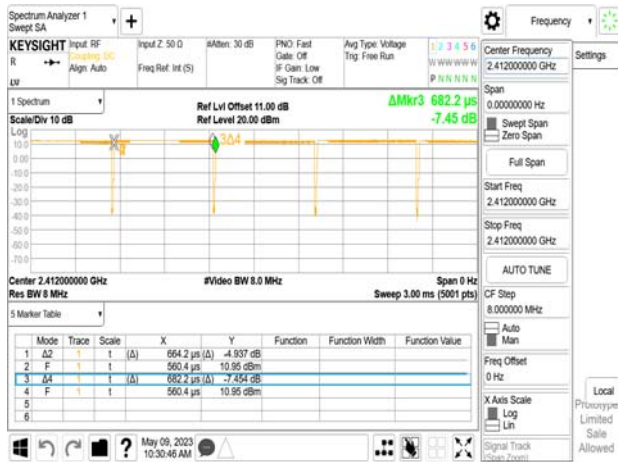
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8.4.2 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2422MHz



802.11g_20MHz_Chain0_2412MHz



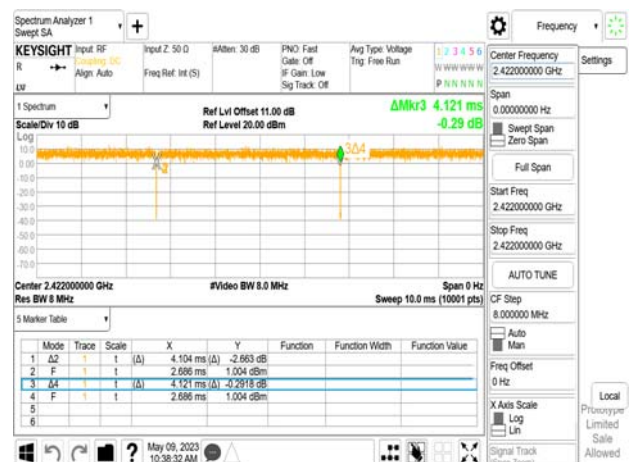
802.11ax_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11ax_40MHz_Chain0_2422MHz

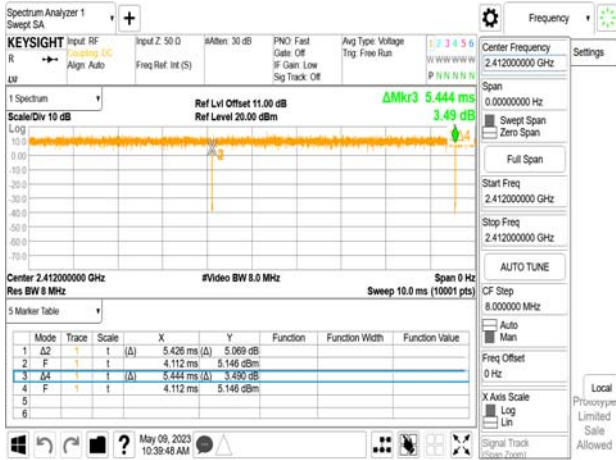


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802.11be_20MHz_Chain0_2412MHz



802.11be_40MHz_Chain0_2422MHz



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8.4.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21	23.20	30.00	PASS
2	2417	1	21	23.22	30.00	PASS
3	2422	1	22	23.65	30.00	PASS
6	2437	1	22	23.92	30.00	PASS
7	2442	1	22	23.65	30.00	PASS
8	2447	1	22	23.61	30.00	PASS
9	2452	1	22	23.80	30.00	PASS
10	2457	1	21	23.51	30.00	PASS
11	2462	1	21.5	23.68	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21	20.58	30.00	PASS
2	2417	1	21	20.73	30.00	PASS
3	2422	1	22	20.99	30.00	PASS
6	2437	1	22	20.94	30.00	PASS
7	2442	1	22	20.96	30.00	PASS
8	2447	1	22	20.90	30.00	PASS
9	2452	1	22	21.46	30.00	PASS
10	2457	1	21	20.88	30.00	PASS
11	2462	1	21.5	21.08	30.00	PASS

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802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21	21.90	30.00	PASS
2	2417	1	20.5	22.72	30.00	PASS
3	2422	1	21.5	22.32	30.00	PASS
6	2437	1	21.5	21.82	30.00	PASS
7	2442	1	21.5	21.92	30.00	PASS
8	2447	1	21.5	22.08	30.00	PASS
9	2452	1	21.5	22.86	30.00	PASS
10	2457	1	21	22.55	30.00	PASS
11	2462	1	21	22.21	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21	19.31	30.00	PASS
2	2417	1	20.5	19.59	30.00	PASS
3	2422	1	21.5	19.44	30.00	PASS
6	2437	1	21.5	19.03	30.00	PASS
7	2442	1	21.5	19.19	30.00	PASS
8	2447	1	21.5	19.33	30.00	PASS
9	2452	1	21.5	20.08	30.00	PASS
10	2457	1	21	19.81	30.00	PASS
11	2462	1	21	19.43	30.00	PASS

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802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	1	21.5	23.48	21.94	25.79	30.00	PASS
2	2417	1	21.5	23.26	23.17	26.23	30.00	PASS
3	2422	1	22.5	23.78	23.05	26.44	30.00	PASS
6	2437	1	22.5	23.97	22.42	26.27	30.00	PASS
7	2442	1	22.5	23.81	22.50	26.21	30.00	PASS
8	2447	1	22.5	23.87	22.64	26.31	30.00	PASS
9	2452	1	22.5	24.08	23.00	26.58	30.00	PASS
10	2457	1	22	23.76	22.76	26.30	30.00	PASS
11	2462	1	22	23.78	22.40	26.15	30.00	PASS

802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	1	21.5	20.80	19.40	23.16	30.00	PASS
2	2417	1	21.5	20.76	20.01	23.41	30.00	PASS
3	2422	1	22.5	21.33	20.04	23.74	30.00	PASS
6	2437	1	22.5	21.59	19.46	23.66	30.00	PASS
7	2442	1	22.5	21.44	19.75	23.68	30.00	PASS
8	2447	1	22.5	21.27	19.66	23.55	30.00	PASS
9	2452	1	22.5	21.48	20.31	23.94	30.00	PASS
10	2457	1	22	21.02	20.07	23.58	30.00	PASS
11	2462	1	22	21.10	19.68	23.45	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	16	21.77	30.00	PASS
2	2417	6	18.5	24.14	30.00	PASS
3	2422	6	19.5	25.05	30.00	PASS
4	2427	6	19.5	25.06	30.00	PASS
5	2432	6	20	25.63	30.00	PASS
6	2437	6	19	24.64	30.00	PASS
7	2442	6	19	24.55	30.00	PASS
8	2447	6	19	24.69	30.00	PASS
9	2452	6	18.5	24.07	30.00	PASS
10	2457	6	18	23.44	30.00	PASS
11	2462	6	16	21.75	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	15.96	30.00	PASS
2	2417	6	18.5	18.35	30.00	PASS
3	2422	6	19.5	19.41	30.00	PASS
4	2427	6	19.5	19.46	30.00	PASS
5	2432	6	20	20.00	30.00	PASS
6	2437	6	19	18.99	30.00	PASS
7	2442	6	19	18.89	30.00	PASS
8	2447	6	19	18.87	30.00	PASS
9	2452	6	18.5	18.43	30.00	PASS
10	2457	6	18	17.73	30.00	PASS
11	2462	6	16	15.94	30.00	PASS

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802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	21.18	30.00	PASS
2	2417	6	17	23.29	30.00	PASS
3	2422	6	18	23.93	30.00	PASS
4	2427	6	18	24.14	30.00	PASS
5	2432	6	19	25.07	30.00	PASS
6	2437	6	18	24.20	30.00	PASS
7	2442	6	18	24.14	30.00	PASS
8	2447	6	17.5	23.88	30.00	PASS
9	2452	6	17	23.24	30.00	PASS
10	2457	6	16.5	22.58	30.00	PASS
11	2462	6	15	21.10	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	15	15.40	30.00	PASS
2	2417	6	17	17.40	30.00	PASS
3	2422	6	18	18.41	30.00	PASS
4	2427	6	18	18.48	30.00	PASS
5	2432	6	19	19.32	30.00	PASS
6	2437	6	18	18.34	30.00	PASS
7	2442	6	18	18.36	30.00	PASS
8	2447	6	17.5	17.90	30.00	PASS
9	2452	6	17	17.45	30.00	PASS
10	2457	6	16.5	16.96	30.00	PASS
11	2462	6	15	15.37	30.00	PASS

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802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	6	15.5	21.94	21.57	24.77	30.00	PASS
2	2417	6	18	24.24	23.67	26.97	30.00	PASS
3	2422	6	19	25.30	24.72	28.03	30.00	PASS
4	2427	6	19	25.24	24.70	27.99	30.00	PASS
5	2432	6	20	25.68	25.60	28.65	30.00	PASS
6	2437	6	19	24.79	24.54	27.68	30.00	PASS
7	2442	6	19	24.76	24.62	27.70	30.00	PASS
8	2447	6	18.5	24.72	24.13	27.45	30.00	PASS
9	2452	6	18	24.28	23.64	26.98	30.00	PASS
10	2457	6	17.5	23.76	23.32	26.56	30.00	PASS
11	2462	6	15.5	21.96	21.23	24.62	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	6	15.5	16.00	15.41	18.73	30.00	PASS
2	2417	6	18	18.38	17.56	21.00	30.00	PASS
3	2422	6	19	19.42	18.71	22.09	30.00	PASS
4	2427	6	19	19.47	18.70	22.12	30.00	PASS
5	2432	6	20	20.24	19.60	22.95	30.00	PASS
6	2437	6	19	19.19	18.71	21.97	30.00	PASS
7	2442	6	19	19.31	18.85	22.10	30.00	PASS
8	2447	6	18.5	18.92	18.27	21.62	30.00	PASS
9	2452	6	18	18.45	17.60	21.06	30.00	PASS
10	2457	6	17.5	18.02	17.42	20.75	30.00	PASS
11	2462	6	15.5	15.95	15.38	18.69	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	16	22.02	30.00	PASS
2	2417	MCS0	18	23.93	30.00	PASS
3	2422	MCS0	19	24.90	30.00	PASS
4	2427	MCS0	20	26.22	30.00	PASS
5	2432	MCS0	20	25.86	30.00	PASS
6	2437	MCS0	19.5	25.14	30.00	PASS
7	2442	MCS0	19.5	25.21	30.00	PASS
8	2447	MCS0	19	24.70	30.00	PASS
9	2452	MCS0	19	24.78	30.00	PASS
10	2457	MCS0	18	23.83	30.00	PASS
11	2462	MCS0	15	20.85	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	16	15.97	30.00	PASS
2	2417	MCS0	18	17.86	30.00	PASS
3	2422	MCS0	19	18.89	30.00	PASS
4	2427	MCS0	20	20.06	30.00	PASS
5	2432	MCS0	20	20.01	30.00	PASS
6	2437	MCS0	19.5	19.47	30.00	PASS
7	2442	MCS0	19.5	19.41	30.00	PASS
8	2447	MCS0	19	18.89	30.00	PASS
9	2452	MCS0	19	18.86	30.00	PASS
10	2457	MCS0	18	17.90	30.00	PASS
11	2462	MCS0	15	15.03	30.00	PASS

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802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	14.5	21.04	30.00	PASS
2	2417	MCS0	17	23.42	30.00	PASS
3	2422	MCS0	18	24.12	30.00	PASS
4	2427	MCS0	19	25.43	30.00	PASS
5	2432	MCS0	19.5	25.64	30.00	PASS
6	2437	MCS0	19	25.09	30.00	PASS
7	2442	MCS0	18.5	24.78	30.00	PASS
8	2447	MCS0	18	24.34	30.00	PASS
9	2452	MCS0	17.5	23.76	30.00	PASS
10	2457	MCS0	17	23.26	30.00	PASS
11	2462	MCS0	14.5	20.79	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	14.5	14.91	30.00	PASS
2	2417	MCS0	17	17.41	30.00	PASS
3	2422	MCS0	18	18.41	30.00	PASS
4	2427	MCS0	19	19.47	30.00	PASS
5	2432	MCS0	19.5	19.81	30.00	PASS
6	2437	MCS0	19	19.25	30.00	PASS
7	2442	MCS0	18.5	18.89	30.00	PASS
8	2447	MCS0	18	18.41	30.00	PASS
9	2452	MCS0	17.5	17.94	30.00	PASS
10	2457	MCS0	17	17.54	30.00	PASS
11	2462	MCS0	14.5	14.81	30.00	PASS

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802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	15.5	22.19	21.33	24.79	30.00	PASS
2	2417	MCS0	18	24.37	23.89	27.15	30.00	PASS
3	2422	MCS0	19	25.25	24.78	28.03	30.00	PASS
4	2427	MCS0	20	26.23	25.66	28.96	30.00	PASS
5	2432	MCS0	20	25.93	25.72	28.84	30.00	PASS
6	2437	MCS0	19.5	25.17	25.23	28.21	30.00	PASS
7	2442	MCS0	19.5	25.24	25.15	28.21	30.00	PASS
8	2447	MCS0	18.5	24.87	24.35	27.63	30.00	PASS
9	2452	MCS0	18.5	24.90	24.35	27.64	30.00	PASS
10	2457	MCS0	18	24.01	23.70	26.87	30.00	PASS
11	2462	MCS0	15	21.36	20.95	24.17	30.00	PASS

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	15.5	16.04	15.33	18.71	30.00	PASS
2	2417	MCS0	18	18.35	17.73	21.07	30.00	PASS
3	2422	MCS0	19	19.38	12.14	22.10	30.00	PASS
4	2427	MCS0	20	20.42	19.89	23.18	30.00	PASS
5	2432	MCS0	20	20.29	19.93	23.13	30.00	PASS
6	2437	MCS0	19.5	19.71	19.32	22.53	30.00	PASS
7	2442	MCS0	19.5	19.85	19.25	22.58	30.00	PASS
8	2447	MCS0	18.5	18.90	18.42	21.68	30.00	PASS
9	2452	MCS0	18.5	18.88	18.39	21.66	30.00	PASS
10	2457	MCS0	18	18.38	17.72	21.08	30.00	PASS
11	2462	MCS0	15	15.38	14.88	18.15	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	8.5	15.52	30.00	PASS
4	2427	MCS0	9.5	16.43	30.00	PASS
5	2432	MCS0	10	16.25	30.00	PASS
6	2437	MCS0	10	15.85	30.00	PASS
7	2442	MCS0	8	14.84	30.00	PASS
8	2447	MCS0	8.5	15.10	30.00	PASS
9	2452	MCS0	8	14.75	30.00	PASS
802.11n_HT_40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8.5	9.31	30.00	PASS
4	2427	MCS0	9.5	10.23	30.00	PASS
5	2432	MCS0	10	10.00	30.00	PASS
6	2437	MCS0	10	9.97	30.00	PASS
7	2442	MCS0	8	8.69	30.00	PASS
8	2447	MCS0	8.5	8.99	30.00	PASS
9	2452	MCS0	8	8.59	30.00	PASS

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802.11n_HT_40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8.5	13.82	30.00	PASS
4	2427	MCS0	9.5	14.95	30.00	PASS
5	2432	MCS0	10	16.24	30.00	PASS
6	2437	MCS0	10	15.83	30.00	PASS
7	2442	MCS0	8	13.29	30.00	PASS
8	2447	MCS0	8.5	13.30	30.00	PASS
9	2452	MCS0	8	12.80	30.00	PASS
802.11n_HT_40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	8.5	7.70	30.00	PASS
4	2427	MCS0	9.5	8.87	30.00	PASS
5	2432	MCS0	10	9.91	30.00	PASS
6	2437	MCS0	10	9.93	30.00	PASS
7	2442	MCS0	8	7.28	30.00	PASS
8	2447	MCS0	8.5	7.38	30.00	PASS
9	2452	MCS0	8	6.89	30.00	PASS

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802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	9	16.21	14.38	18.40	30.00	PASS
4	2427	MCS0	9.5	16.44	15.01	18.79	30.00	PASS
5	2432	MCS0	10	16.26	16.44	19.36	30.00	PASS
6	2437	MCS0	10	15.87	16.52	19.22	30.00	PASS
7	2442	MCS0	8.5	15.02	13.70	17.42	30.00	PASS
8	2447	MCS0	8.5	15.11	13.34	17.32	30.00	PASS
9	2452	MCS0	8	14.77	12.88	16.94	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	9	9.52	8.14	11.89	30.00	PASS
4	2427	MCS0	9.5	10.41	9.01	12.77	30.00	PASS
5	2432	MCS0	10	10.33	10.09	13.22	30.00	PASS
6	2437	MCS0	10	10.23	9.98	13.11	30.00	PASS
7	2442	MCS0	8.5	9.03	7.75	11.44	30.00	PASS
8	2447	MCS0	8.5	9.17	7.47	11.41	30.00	PASS
9	2452	MCS0	8	8.63	7.08	10.93	30.00	PASS

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802.11ax_HE_20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	21.22	30.00	PASS
2	2417	MCS0	full	16.5	22.94	30.00	PASS
3	2422	MCS0	full	18.5	24.92	30.00	PASS
4	2427	MCS0	full	19.5	25.52	30.00	PASS
5	2432	MCS0	full	19.5	25.76	30.00	PASS
6	2437	MCS0	full	19	25.02	30.00	PASS
7	2442	MCS0	full	18	24.44	30.00	PASS
8	2447	MCS0	full	18	23.90	30.00	PASS
9	2452	MCS0	full	17	23.43	30.00	PASS
10	2457	MCS0	full	15	21.37	30.00	PASS
11	2462	MCS0	full	12	18.40	30.00	PASS
802.11ax_HE_20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	14.97	30.00	PASS
2	2417	MCS0	full	16.5	16.59	30.00	PASS
3	2422	MCS0	full	18.5	18.71	30.00	PASS
4	2427	MCS0	full	19.5	19.44	30.00	PASS
5	2432	MCS0	full	19.5	19.58	30.00	PASS
6	2437	MCS0	full	19	18.74	30.00	PASS
7	2442	MCS0	full	18	18.07	30.00	PASS
8	2447	MCS0	full	18	17.64	30.00	PASS
9	2452	MCS0	full	17	17.17	30.00	PASS
10	2457	MCS0	full	15	15.12	30.00	PASS
11	2462	MCS0	full	12	12.22	30.00	PASS

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802.11ax_HE_20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	13.5	20.54	30.00	PASS
2	2417	MCS0	full	16	22.72	30.00	PASS
3	2422	MCS0	full	18	24.64	30.00	PASS
4	2427	MCS0	full	18.5	25.12	30.00	PASS
5	2432	MCS0	full	19	25.68	30.00	PASS
6	2437	MCS0	full	18	24.76	30.00	PASS
7	2442	MCS0	full	17	23.90	30.00	PASS
8	2447	MCS0	full	17	23.43	30.00	PASS
9	2452	MCS0	full	16.5	23.19	30.00	PASS
10	2457	MCS0	full	14.5	21.13	30.00	PASS
11	2462	MCS0	full	11.5	18.37	30.00	PASS
802.11ax_HE_20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	13.5	14.03	30.00	PASS
2	2417	MCS0	full	16	16.40	30.00	PASS
3	2422	MCS0	full	18	18.23	30.00	PASS
4	2427	MCS0	full	18.5	18.88	30.00	PASS
5	2432	MCS0	full	19	19.42	30.00	PASS
6	2437	MCS0	full	18	18.48	30.00	PASS
7	2442	MCS0	full	17	17.64	30.00	PASS
8	2447	MCS0	full	17	16.99	30.00	PASS
9	2452	MCS0	full	16.5	16.93	30.00	PASS
10	2457	MCS0	full	14.5	14.96	30.00	PASS
11	2462	MCS0	full	11.5	12.12	30.00	PASS

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802.11ax_HE20M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
1	2412	MCS0	full	14.5	21.56	20.68	24.15	30.00	PASS
2	2417	MCS0	full	16.5	23.42	22.93	26.19	30.00	PASS
3	2422	MCS0	full	18.5	25.32	24.94	28.14	30.00	PASS
4	2427	MCS0	full	19	25.92	25.33	28.65	30.00	PASS
5	2432	MCS0	full	19.5	26.18	25.73	28.97	30.00	PASS
6	2437	MCS0	full	18.5	25.36	24.97	28.18	30.00	PASS
7	2442	MCS0	full	18	24.61	24.25	27.44	30.00	PASS
8	2447	MCS0	full	17.5	24.48	23.98	27.25	30.00	PASS
9	2452	MCS0	full	17	23.91	23.41	26.68	30.00	PASS
10	2457	MCS0	full	15	21.66	21.34	24.51	30.00	PASS
11	2462	MCS0	full	12	18.86	18.43	21.66	30.00	PASS

802.11ax_HE20M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
1	2412	MCS0	full	14.5	15.03	14.40	17.74	30.00	PASS
2	2417	MCS0	full	16.5	16.99	16.52	19.78	30.00	PASS
3	2422	MCS0	full	18.5	18.93	18.63	21.80	30.00	PASS
4	2427	MCS0	full	19	19.61	18.89	22.28	30.00	PASS
5	2432	MCS0	full	19.5	19.95	19.50	22.75	30.00	PASS
6	2437	MCS0	full	18.5	19.05	18.51	21.80	30.00	PASS
7	2442	MCS0	full	18	18.51	17.97	21.26	30.00	PASS
8	2447	MCS0	full	17.5	18.08	17.47	20.80	30.00	PASS
9	2452	MCS0	full	17	17.54	17.02	20.30	30.00	PASS
10	2457	MCS0	full	15	15.49	15.00	18.27	30.00	PASS
11	2462	MCS0	full	12	12.57	12.14	15.37	30.00	PASS

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802.11ax_HE_40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	15.24	30.00	PASS
4	2427	MCS0	full	8.5	15.61	30.00	PASS
5	2432	MCS0	full	9	15.51	30.00	PASS
6	2437	MCS0	full	9	15.61	30.00	PASS
7	2442	MCS0	full	7.5	14.30	30.00	PASS
8	2447	MCS0	full	7.5	14.31	30.00	PASS
9	2452	MCS0	full	7.5	14.41	30.00	PASS

802.11ax_HE_40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	8.70	30.00	PASS
4	2427	MCS0	full	8.5	9.41	30.00	PASS
5	2432	MCS0	full	9	9.58	30.00	PASS
6	2437	MCS0	full	9	9.72	30.00	PASS
7	2442	MCS0	full	7.5	8.31	30.00	PASS
8	2447	MCS0	full	7.5	8.06	30.00	PASS
9	2452	MCS0	full	7.5	8.00	30.00	PASS

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802.11ax_HE_40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	13.42	30.00	PASS
4	2427	MCS0	full	8.5	14.22	30.00	PASS
5	2432	MCS0	full	9	14.42	30.00	PASS
6	2437	MCS0	full	9	14.53	30.00	PASS
7	2442	MCS0	full	7.5	12.84	30.00	PASS
8	2447	MCS0	full	7.5	12.45	30.00	PASS
9	2452	MCS0	full	7.5	12.55	30.00	PASS
802.11ax_HE_40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	7.09	30.00	PASS
4	2427	MCS0	full	8.5	7.91	30.00	PASS
5	2432	MCS0	full	9	8.34	30.00	PASS
6	2437	MCS0	full	9	8.35	30.00	PASS
7	2442	MCS0	full	7.5	6.83	30.00	PASS
8	2447	MCS0	full	7.5	6.46	30.00	PASS
9	2452	MCS0	full	7.5	6.61	30.00	PASS

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802.11ax_HE40M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
3	2422	MCS0	full	8.5	15.99	13.92	18.09	30.00	PASS
4	2427	MCS0	full	9	16.35	14.68	18.61	30.00	PASS
5	2432	MCS0	full	9.5	16.29	14.96	18.69	30.00	PASS
6	2437	MCS0	full	9.5	16.42	15.00	18.78	30.00	PASS
7	2442	MCS0	full	8	14.86	13.37	17.19	30.00	PASS
8	2447	MCS0	full	7.5	14.32	12.46	16.50	30.00	PASS
9	2452	MCS0	full	8	14.85	12.86	16.98	30.00	PASS

802.11ax_HE40M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
3	2422	MCS0	full	8.5	8.97	7.39	11.26	30.00	PASS
4	2427	MCS0	full	9	9.64	8.39	12.07	30.00	PASS
5	2432	MCS0	full	9.5	9.99	8.81	12.45	30.00	PASS
6	2437	MCS0	full	9.5	10.12	8.74	12.49	30.00	PASS
7	2442	MCS0	full	8	8.72	7.24	11.05	30.00	PASS
8	2447	MCS0	full	7.5	8.14	6.55	10.43	30.00	PASS
9	2452	MCS0	full	8	8.48	6.99	10.81	30.00	PASS

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802.11be_EHT_20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	21.50	30.00	PASS
			26/0	7	14.95	30.00	PASS
			52/37	9	16.52	30.00	PASS
			106/53	10.5	18.76	30.00	PASS
			52+26 MRU1	10	18.09	30.00	PASS
			106+26 MRU1	12	20.21	30.00	PASS
2	2417	MCS0	full	16.5	23.03	30.00	PASS
3	2422	MCS0	full	18.5	25.21	30.00	PASS
4	2427	MCS0	full	19	25.81	30.00	PASS
5	2432	MCS0	full	19.5	25.87	30.00	PASS
6	2437	MCS0	full	18.5	25.05	30.00	PASS
7	2442	MCS0	full	18	24.56	30.00	PASS
8	2447	MCS0	full	17.5	24.42	30.00	PASS
9	2452	MCS0	full	17.5	23.84	30.00	PASS
10	2457	MCS0	full	15	21.61	30.00	PASS
11	2462	MCS0	full	12	18.59	30.00	PASS
			26/8	4.5	12.76	30.00	PASS
			52/40	8	15.82	30.00	PASS
			106/54	9	17.53	30.00	PASS
			52+26 MRU3	8	16.17	30.00	PASS
			106+26 MRU2	9.5	18.04	30.00	PASS
802.11be_EHT_20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	15.00	30.00	PASS
			26/0	7	7.44	30.00	PASS
			52/37	9	9.21	30.00	PASS
			106/53	10.5	11.03	30.00	PASS
			52+26 MRU1	10	10.46	30.00	PASS
			106+26 MRU1	12	12.21	30.00	PASS
2	2417	MCS0	full	16.5	16.63	30.00	PASS
3	2422	MCS0	full	18.5	18.73	30.00	PASS
4	2427	MCS0	full	19	19.54	30.00	PASS
5	2432	MCS0	full	19.5	19.60	30.00	PASS
6	2437	MCS0	full	18.5	18.92	30.00	PASS
7	2442	MCS0	full	18	18.11	30.00	PASS
8	2447	MCS0	full	17.5	18.04	30.00	PASS
9	2452	MCS0	full	17.5	17.57	30.00	PASS
10	2457	MCS0	full	15	15.14	30.00	PASS
11	2462	MCS0	full	12	12.28	30.00	PASS
			26/8	4.5	5.17	30.00	PASS
			52/40	8	6.46	30.00	PASS
			106/54	9	9.84	30.00	PASS
			52+26 MRU3	8	8.74	30.00	PASS
			106+26 MRU2	9.5	10.13	30.00	PASS

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802.11be_EHT_20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	13.5	20.59	30.00	PASS
			26/0	7	13.09	30.00	PASS
			52/37	9	15.10	30.00	PASS
			106/53	10.5	18.69	30.00	PASS
			52+26 MRU1	10	18.02	30.00	PASS
			106+26 MRU1	12	20.19	30.00	PASS
2	2417	MCS0	full	16	22.92	30.00	PASS
3	2422	MCS0	full	18	25.01	30.00	PASS
4	2427	MCS0	full	18.5	25.48	30.00	PASS
5	2432	MCS0	full	19	25.80	30.00	PASS
6	2437	MCS0	full	18	24.82	30.00	PASS
7	2442	MCS0	full	17.5	24.41	30.00	PASS
8	2447	MCS0	full	16.5	23.81	30.00	PASS
9	2452	MCS0	full	16.5	23.36	30.00	PASS
10	2457	MCS0	full	14.5	21.45	30.00	PASS
11	2462	MCS0	full	11.5	18.45	30.00	PASS
			26/8	4.5	10.53	30.00	PASS
			52/40	8	13.84	30.00	PASS
			106/54	9	15.38	30.00	PASS
			52+26 MRU3	8	14.29	30.00	PASS
			106+26 MRU2	9.5	16.07	30.00	PASS
802.11be_EHT_20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	13.5	14.07	30.00	PASS
			26/0	7	4.79	30.00	PASS
			52/37	9	6.93	30.00	PASS
			106/53	10.5	10.77	30.00	PASS
			52+26 MRU1	10	10.26	30.00	PASS
			106+26 MRU1	12	12.02	30.00	PASS
2	2417	MCS0	full	16	16.43	30.00	PASS
3	2422	MCS0	full	18	18.41	30.00	PASS
4	2427	MCS0	full	18.5	18.99	30.00	PASS
5	2432	MCS0	full	19	19.46	30.00	PASS
6	2437	MCS0	full	18	18.52	30.00	PASS
7	2442	MCS0	full	17.5	17.98	30.00	PASS
8	2447	MCS0	full	16.5	17.44	30.00	PASS
9	2452	MCS0	full	16.5	16.94	30.00	PASS
10	2457	MCS0	full	14.5	14.97	30.00	PASS
11	2462	MCS0	full	11.5	12.13	30.00	PASS
			26/8	4.5	3.30	30.00	PASS
			52/40	8	4.64	30.00	PASS
			106/54	9	7.71	30.00	PASS
			52+26 MRU3	8	6.62	30.00	PASS
			106+26 MRU2	9.5	8.35	30.00	PASS

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802.11be_EHT20M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
1	2412	MCS0	full	14.5	21.54	20.95	24.27	30.00	PASS
			26/0	7	14.96	13.46	17.28	30.00	PASS
			52/37	9	16.98	15.73	19.41	30.00	PASS
			106/53	10.5	18.87	18.70	21.80	30.00	PASS
			52+26 MRU1	10	18.14	18.04	21.10	30.00	PASS
			106+26 MRU1	12	20.34	20.26	23.31	30.00	PASS
2	2417	MCS0	full	16.5	23.35	23.11	26.24	30.00	PASS
3	2422	MCS0	full	18.5	25.24	25.18	28.22	30.00	PASS
4	2427	MCS0	full	19	25.95	25.64	28.81	30.00	PASS
5	2432	MCS0	full	19.5	26.12	25.86	29.00	30.00	PASS
6	2437	MCS0	full	18.5	25.19	25.16	28.19	30.00	PASS
7	2442	MCS0	full	18	24.63	24.57	27.61	30.00	PASS
8	2447	MCS0	full	17.5	24.45	24.04	27.26	30.00	PASS
9	2452	MCS0	full	17	24.12	23.46	26.81	30.00	PASS
10	2457	MCS0	full	15	21.63	21.52	24.59	30.00	PASS
11	2462	MCS0	full	12	18.80	18.51	21.67	30.00	PASS
			26/8	4.5	12.77	11.00	14.98	30.00	PASS
			52/40	8	16.16	14.05	18.24	30.00	PASS
			106/54	9	17.59	15.39	19.64	30.00	PASS
			52+26 MRU3	8	16.28	14.34	18.43	30.00	PASS
			106+26 MRU2	9.5	18.09	16.08	20.21	30.00	PASS
802.11be_EHT20M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
1	2412	MCS0	full	14.5	15.10	14.37	17.76	30.00	PASS
			26/0	7	7.47	4.82	9.36	30.00	PASS
			52/37	9	9.46	6.97	11.41	30.00	PASS
			106/53	10.5	11.04	10.80	13.94	30.00	PASS
			52+26 MRU1	10	10.48	10.27	13.39	30.00	PASS
			106+26 MRU1	12	12.28	12.13	15.22	30.00	PASS
2	2417	MCS0	full	16.5	16.96	16.61	19.80	30.00	PASS
3	2422	MCS0	full	18.5	18.96	18.65	21.82	30.00	PASS
4	2427	MCS0	full	19	19.56	19.03	22.32	30.00	PASS
5	2432	MCS0	full	19.5	19.93	19.54	22.75	30.00	PASS
6	2437	MCS0	full	18.5	19.03	18.61	21.84	30.00	PASS
7	2442	MCS0	full	18	18.52	18.00	21.28	30.00	PASS
8	2447	MCS0	full	17.5	18.09	17.53	20.83	30.00	PASS
9	2452	MCS0	full	17	17.61	16.97	20.32	30.00	PASS
10	2457	MCS0	full	15	15.50	15.03	18.29	30.00	PASS
11	2462	MCS0	full	12	12.59	12.15	15.39	30.00	PASS
			26/8	4.5	5.23	3.70	7.55	30.00	PASS
			52/40	8	6.93	4.98	9.08	30.00	PASS
			106/54	9	9.91	7.73	11.97	30.00	PASS
			52+26 MRU3	8	8.76	6.68	10.86	30.00	PASS
			106+26 MRU2	9.5	10.16	8.37	12.37	30.00	PASS

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802.11be_EHT_40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	15.26	30.00	PASS
6	2437	MCS0	full	9.5	16.42	30.00	PASS
9	2452	MCS0	full	8	14.91	30.00	PASS

802.11be_EHT_40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	8.85	30.00	PASS
6	2437	MCS0	full	9.5	10.09	30.00	PASS
9	2452	MCS0	full	8	8.50	30.00	PASS

802.11be_EHT_40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	13.43	30.00	PASS
6	2437	MCS0	full	9.5	15.15	30.00	PASS
9	2452	MCS0	full	8	12.88	30.00	PASS

802.11be_EHT_40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	8	7.15	30.00	PASS
6	2437	MCS0	full	9.5	8.72	30.00	PASS
9	2452	MCS0	full	8	6.90	30.00	PASS

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802.11be_EHT40M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
3	2422	MCS0	full	8.5	16.08	13.97	18.16	30.00	PASS
6	2437	MCS0	full	9.5	16.47	15.16	18.87	30.00	PASS
9	2452	MCS0	full	8	14.93	12.92	17.05	30.00	PASS
802.11be_EHT40M_2TX									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
3	2422	MCS0	full	8.5	9.03	7.57	11.37	30.00	PASS
6	2437	MCS0	full	9.5	10.23	8.89	12.62	30.00	PASS
9	2452	MCS0	full	8	8.66	7.04	10.93	30.00	PASS

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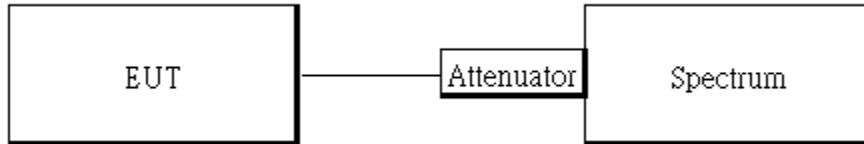
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9 EMISSION BANDWIDTH MEASUREMENT

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.

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9.4 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8057.00	≥ 500	PASS
2437	7161.00	≥ 500	PASS
2462	8092.00	≥ 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8067.00	≥ 500	PASS
2437	8097.00	≥ 500	PASS
2462	8093.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16400.00	≥ 500	PASS
2437	16390.00	≥ 500	PASS
2462	16410.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15800.00	≥ 500	PASS
2437	16400.00	≥ 500	PASS
2462	16400.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17650.00	≥ 500	PASS
2437	17670.00	≥ 500	PASS
2462	17660.00	≥ 500	PASS

802.11n_HT_20M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17620.00	≥ 500	PASS
2437	17700.00	≥ 500	PASS
2462	17670.00	≥ 500	PASS

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802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36490.00	≥ 500	PASS
2437	36520.00	≥ 500	PASS
2452	36520.00	≥ 500	PASS

802.11n_HT_40M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35850.00	≥ 500	PASS
2437	36510.00	≥ 500	PASS
2452	36470.00	≥ 500	PASS

802.11be_EHT_20M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	19070.00	≥ 500	PASS
2437	full	19030.00	≥ 500	PASS
2462	full	19100.00	≥ 500	PASS

802.11be_EHT_20M Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18930.00	≥ 500	PASS
2437	full	19050.00	≥ 500	PASS
2462	full	19010.00	≥ 500	PASS

802.11be_EHT_40M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	38070.00	≥ 500	PASS
2437	full	38180.00	≥ 500	PASS
2452	full	38150.00	≥ 500	PASS

802.11be_EHT_40M Ch1

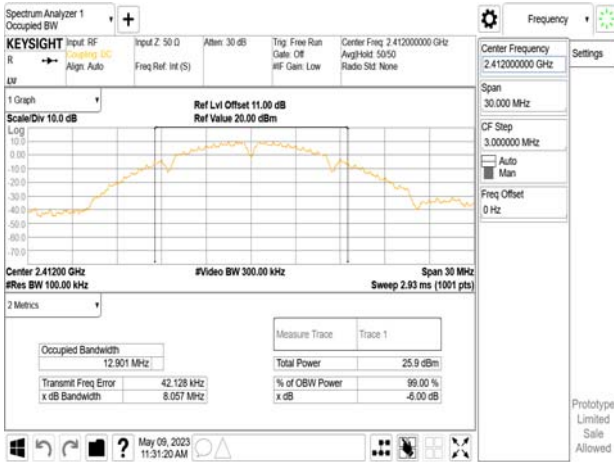
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37850.00	≥ 500	PASS
2437	full	38140.00	≥ 500	PASS
2452	full	38100.00	≥ 500	PASS

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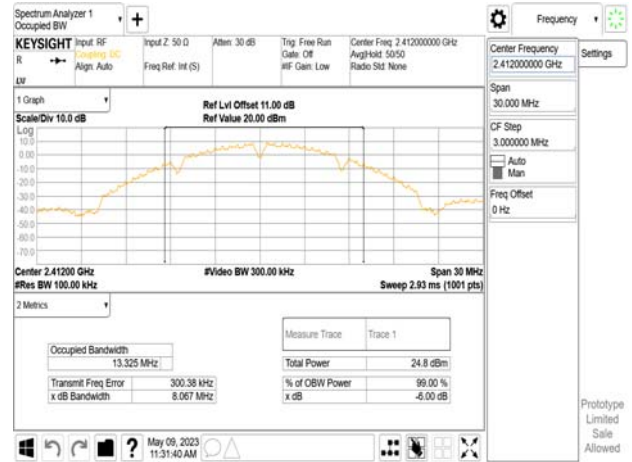
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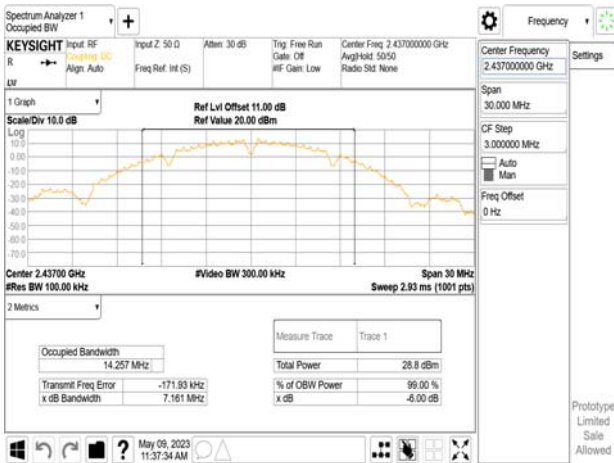
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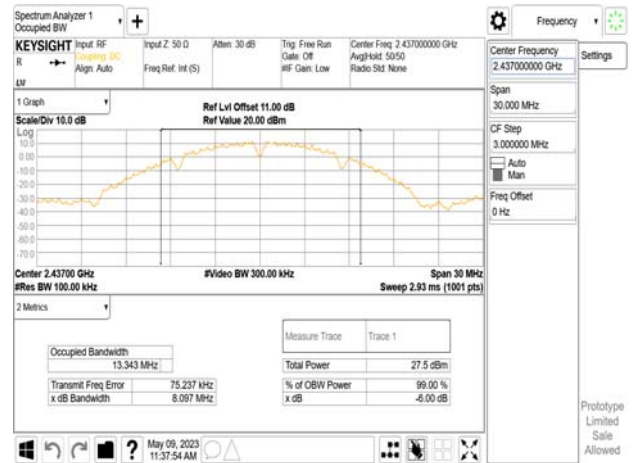
802.11b_20MHz_Chain1_2412MHz



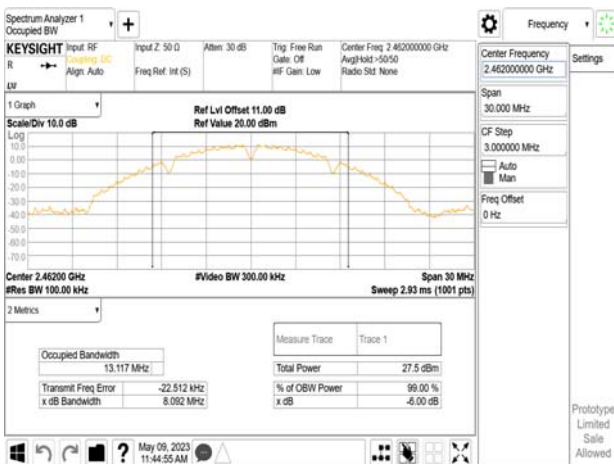
802.11b_20MHz_Chain0_2437MHz



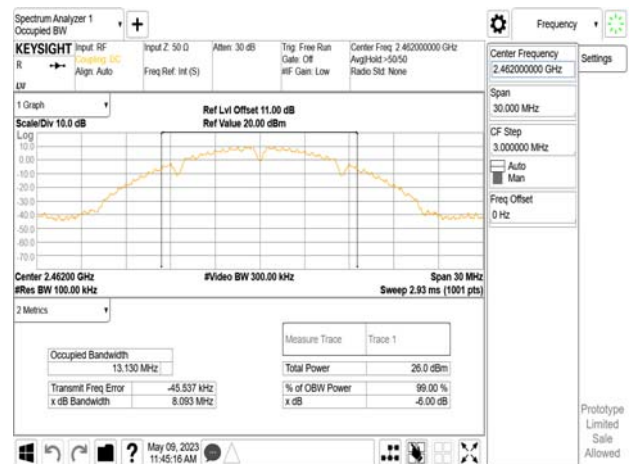
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz

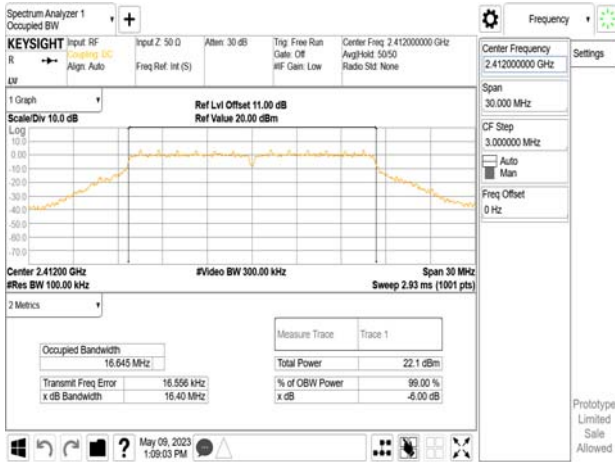


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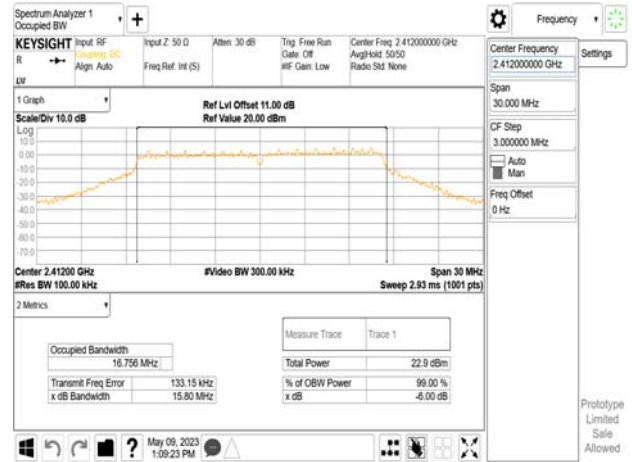
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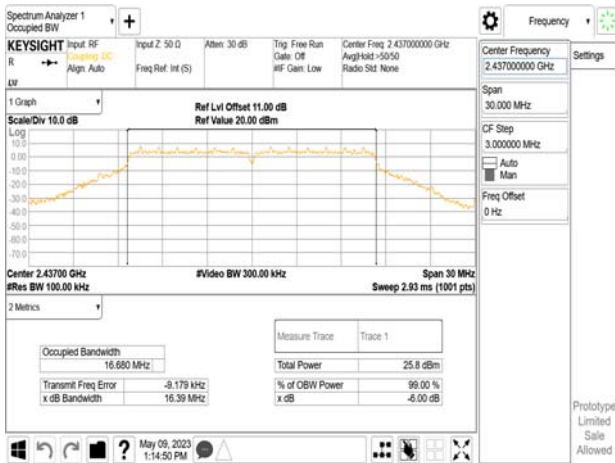
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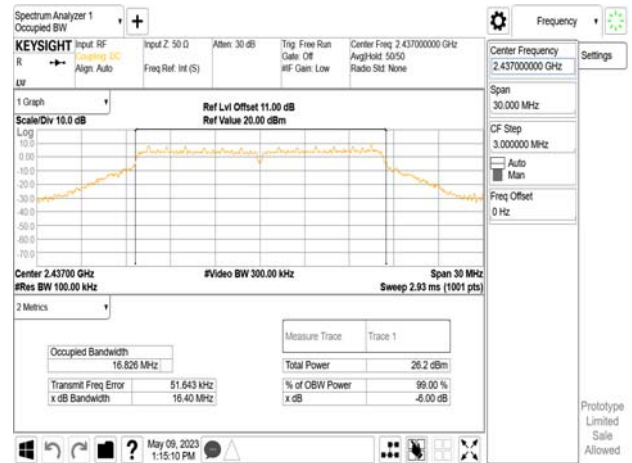
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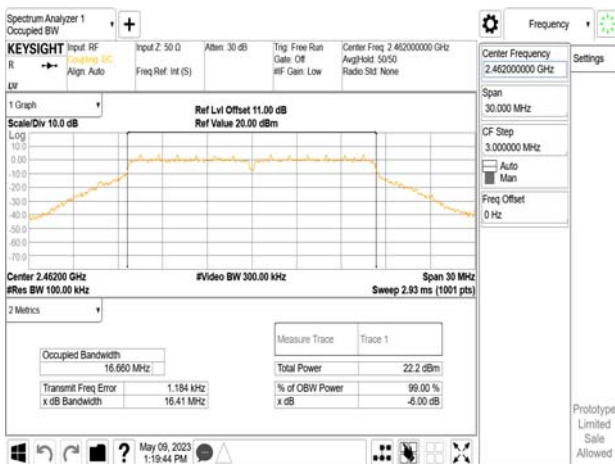
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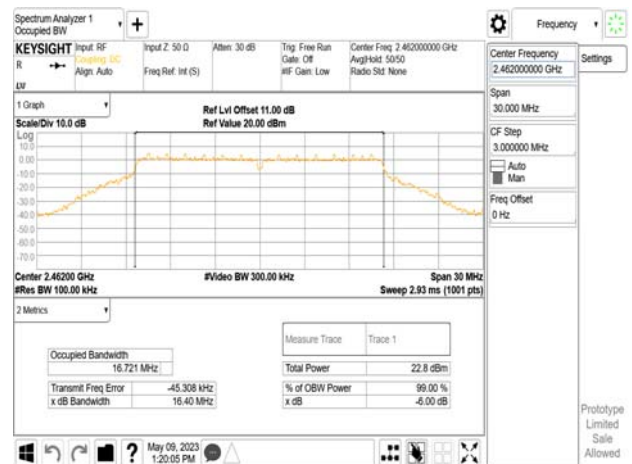
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802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz

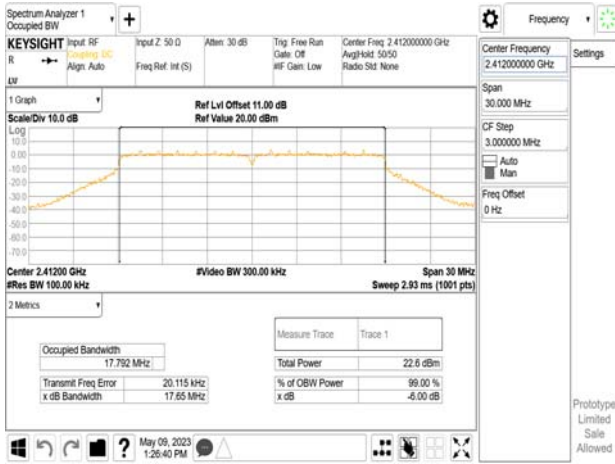


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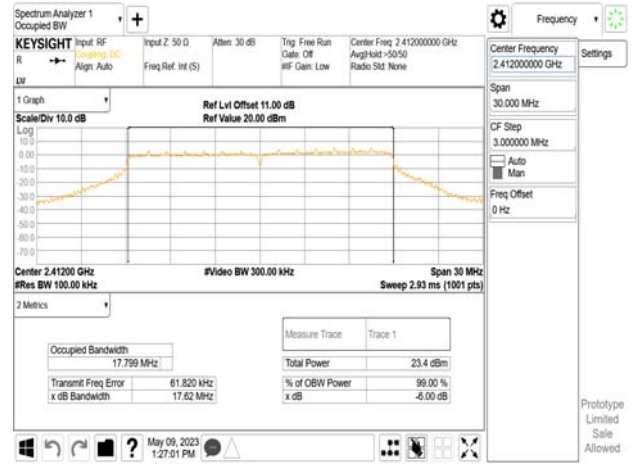
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802.11n_20MHz_Chain0_2412MHz



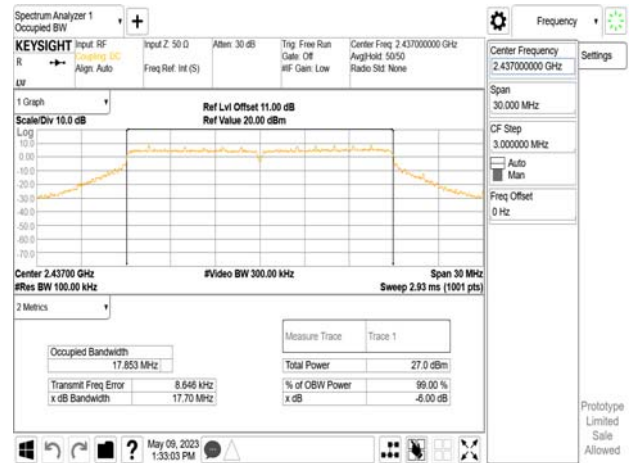
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802.11n_20MHz_Chain0_2437MHz



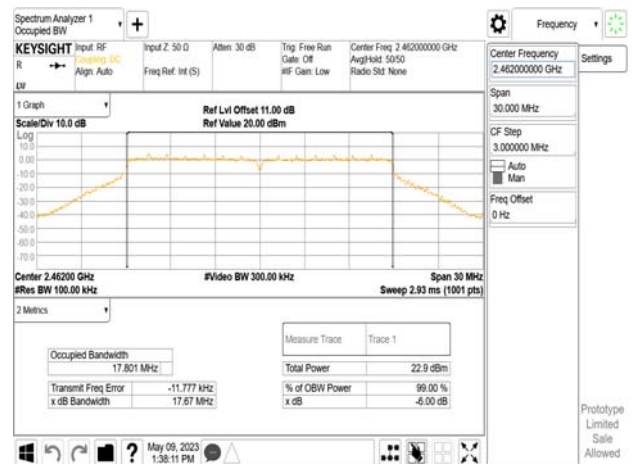
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802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

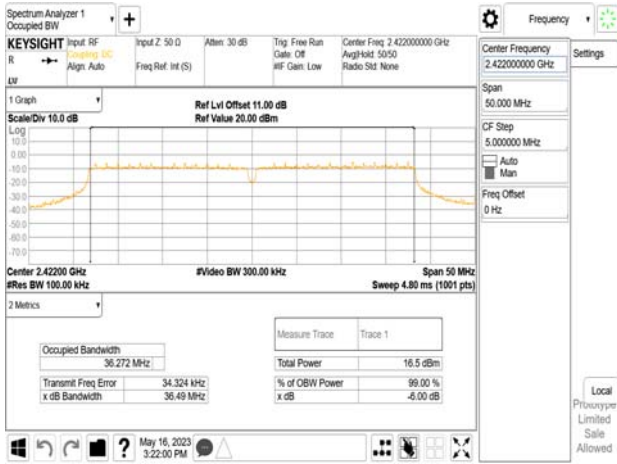


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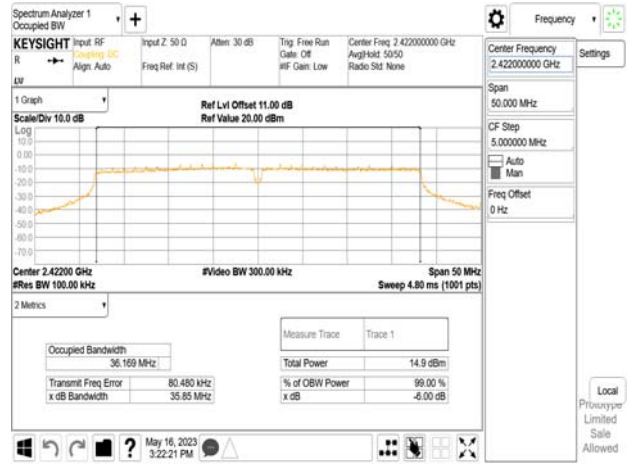
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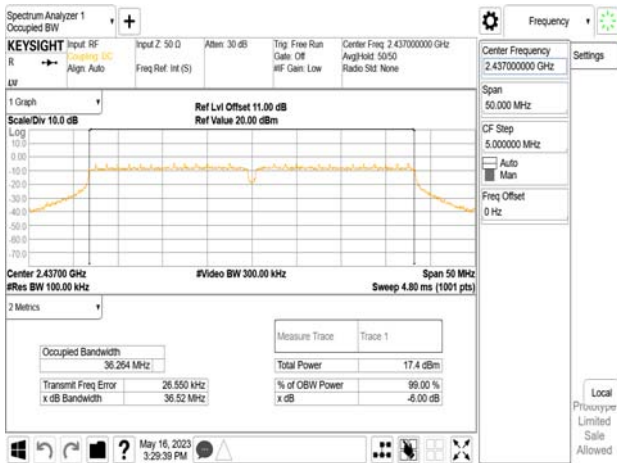
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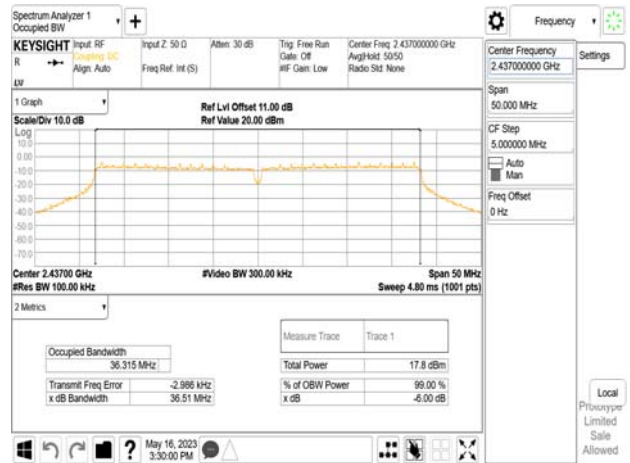
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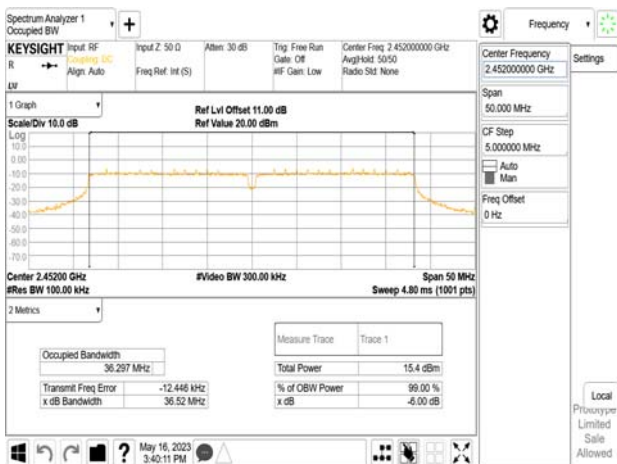
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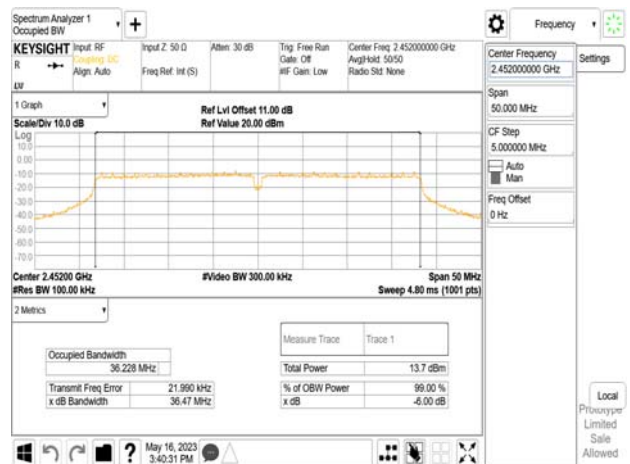
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802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

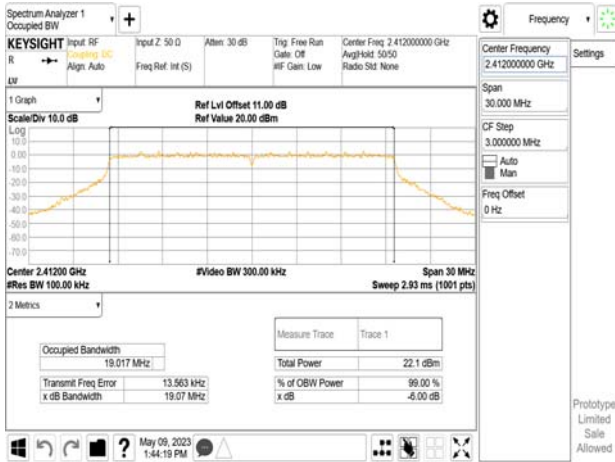


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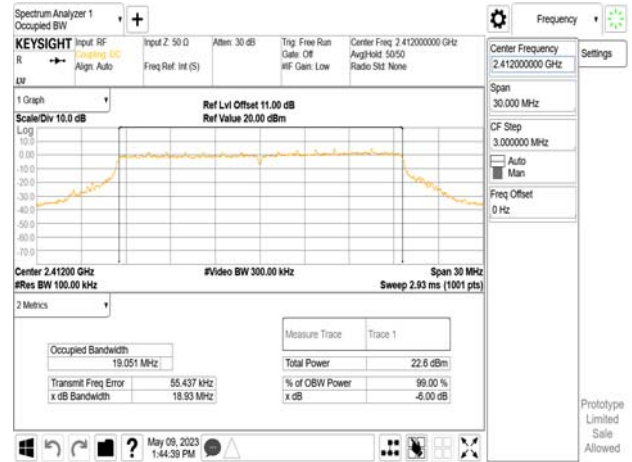
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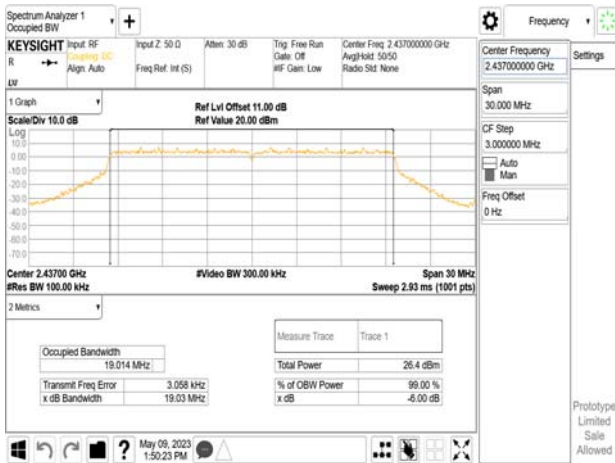
802.11be_20MHz_Chain0_2412MHz



802.11be_20MHz_Chain1_2412MHz



802.11be_20MHz_Chain0_2437MHz



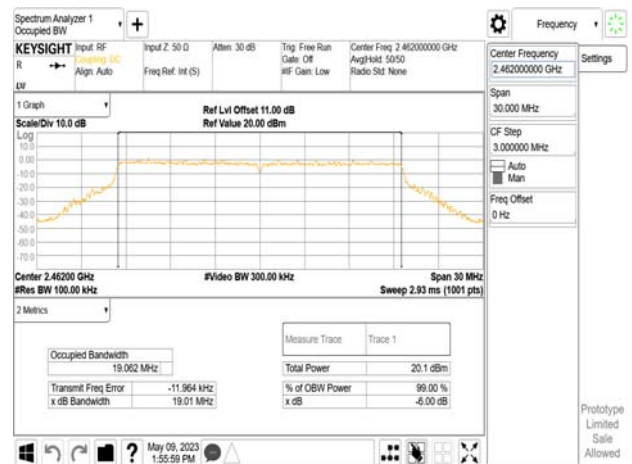
802.11be_20MHz_Chain1_2437MHz



802.11be_20MHz_Chain0_2462MHz



802.11be_20MHz_Chain1_2462MHz



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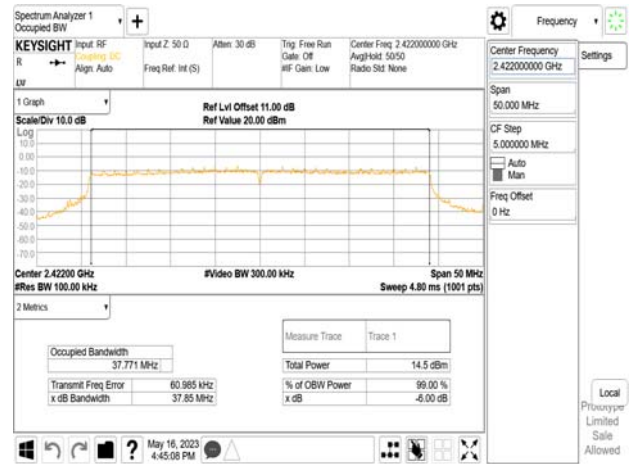
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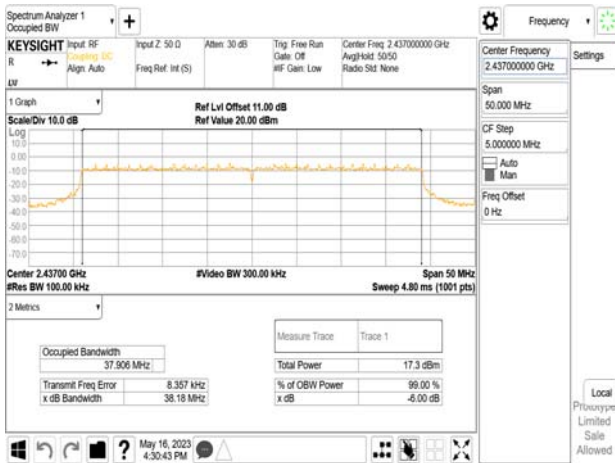
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802.11be_40MHz_Chain1_2422MHz



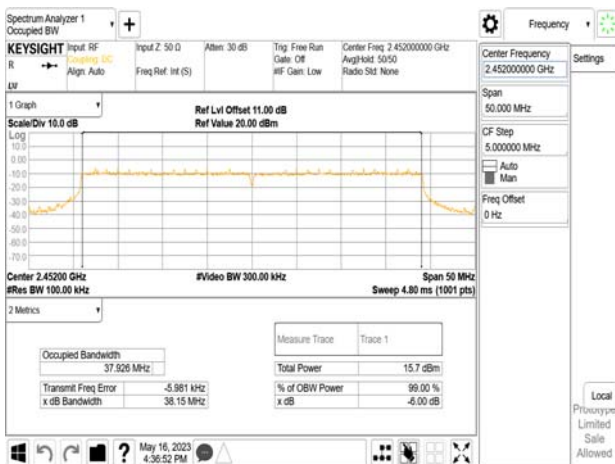
802.11be_40MHz_Chain0_2437MHz



802.11be_40MHz_Chain1_2437MHz



802.11be_40MHz_Chain0_2452MHz



802.11be_40MHz_Chain1_2452MHz



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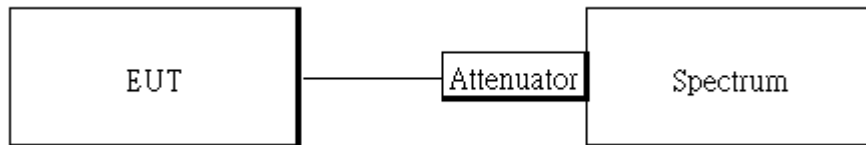
10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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), must also comply with the radiated emission limits specified in §15.209(a).

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.

10.3.3 Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
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	10.46	-9.54
2437	12.62	-7.38
2462	11.24	-8.76

802.11b Ch1

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	9.18	-10.82
2437	12.15	-7.85
2462	9.78	-10.22

802.11g Ch0

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.73	-16.27
2437	7.43	-12.57
2462	3.66	-16.34

802.11g Ch1

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.74	-14.26
2437	8.48	-11.52
2462	5.00	-15.00

802.11n_HT_20M Ch0

Reference Level of Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	3.36	-16.64
2437	7.73	-12.27
2462	3.20	-16.80

802.11n_HT_20M Ch1

Reference Level of Limit 802.11ac20 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	4.99	-15.01
2437	8.36	-11.64
2462	4.69	-15.31

802.11n_HT_40M Ch0

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-5.21	-25.21
2437	-4.58	-24.58
2452	-6.46	-26.46

802.11n_HT_40M Ch1

Reference Level of Limit 802.11ac40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-6.87	-26.87
2437	-3.66	-23.66
2452	-8.08	-28.08

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802.11be_EHT_20M Ch0

Reference Level of Limit 802.11be20 mode			Reference Level of Limit 802.11be20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.41	-17.59	2412	4.39	-15.61
2437	7.11	-12.89	2437	7.57	-12.43
2462	0.32	-19.68	2462	1.34	-18.66

802.11be_EHT_20M Ch1

802.11be_EHT_40M Ch0

Reference Level of Limit 802.11be40 MODE			Reference Level of Limit 802.11be40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-5.64	-25.64	2422	-6.8	-26.80
2437	-4.89	-24.89	2437	-5.96	-25.96
2452	-6.45	-26.45	2452	-7.64	-27.64

802.11be_EHT_40M Ch1

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802.11b_20MHz_Chain0_2412MHz



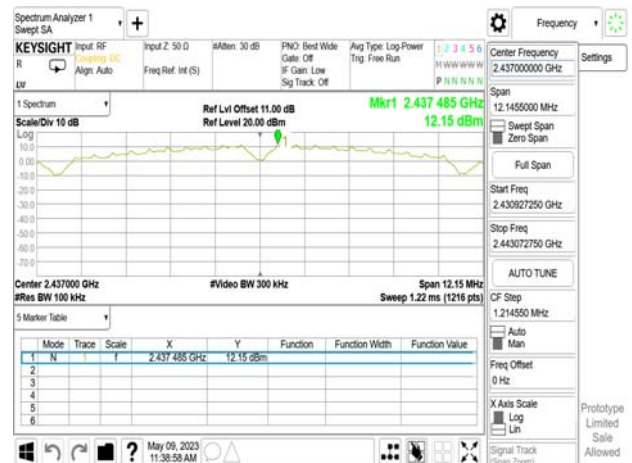
802.11b_20MHz_Chain1_2412MHz



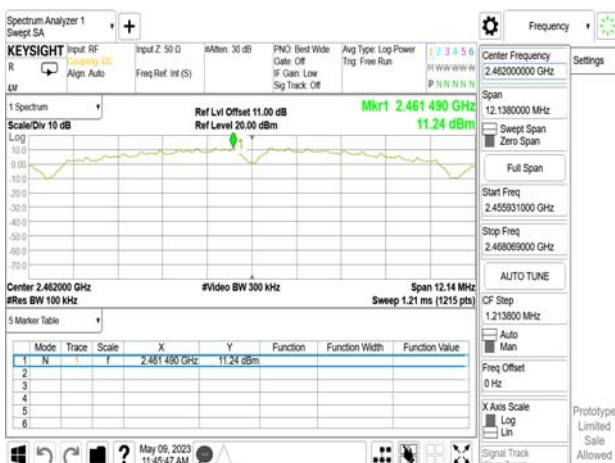
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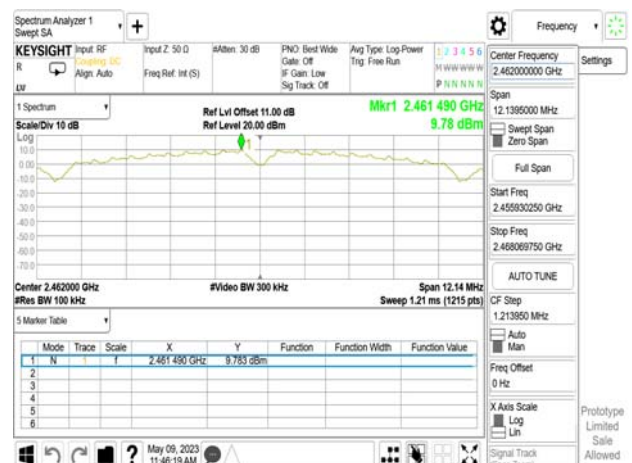
802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



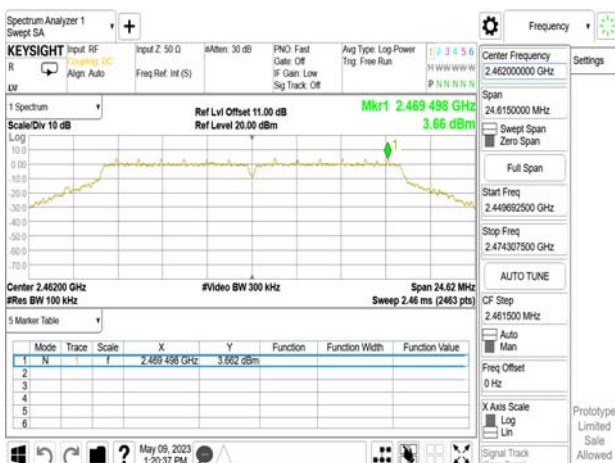
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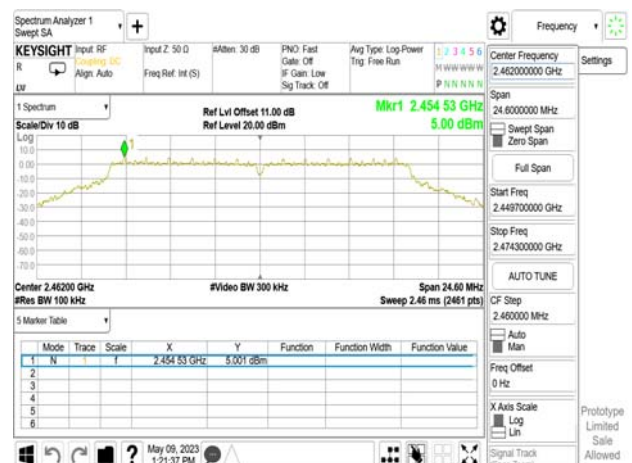
802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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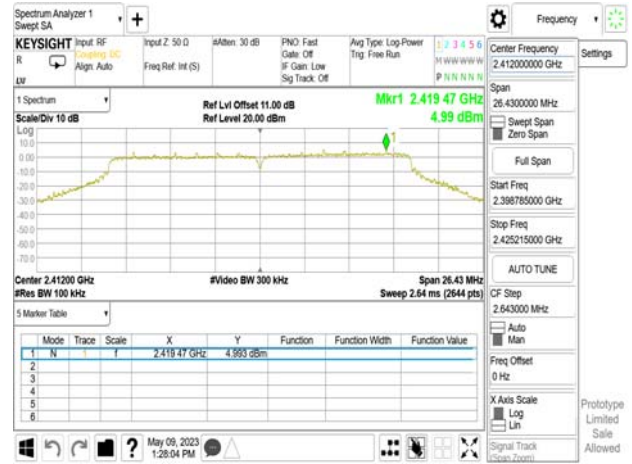
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

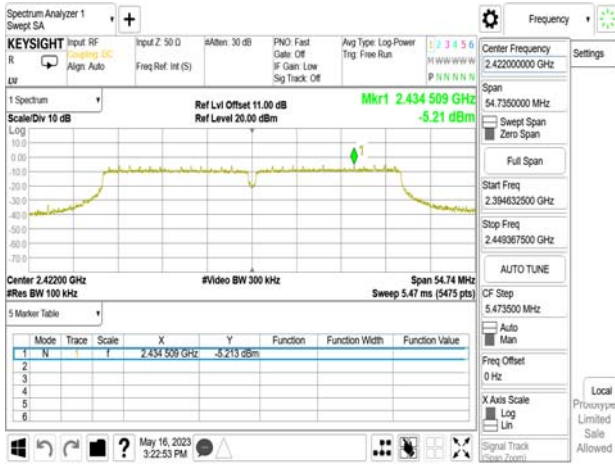


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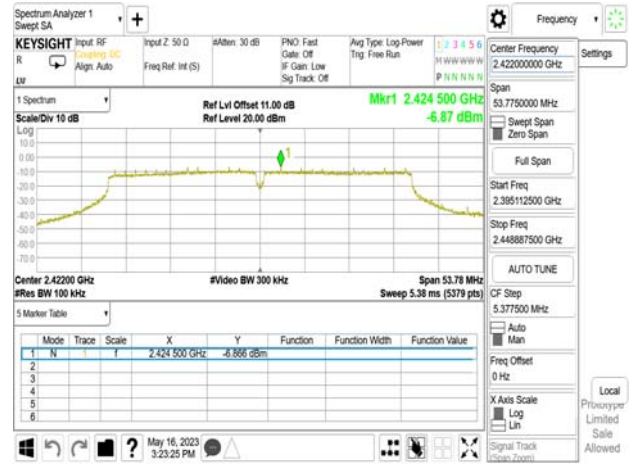
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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



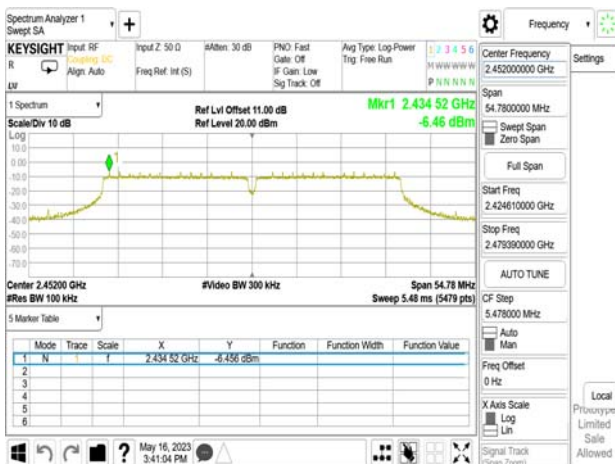
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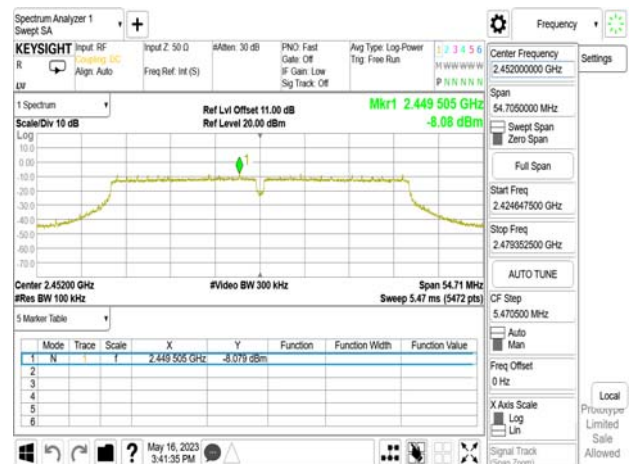
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

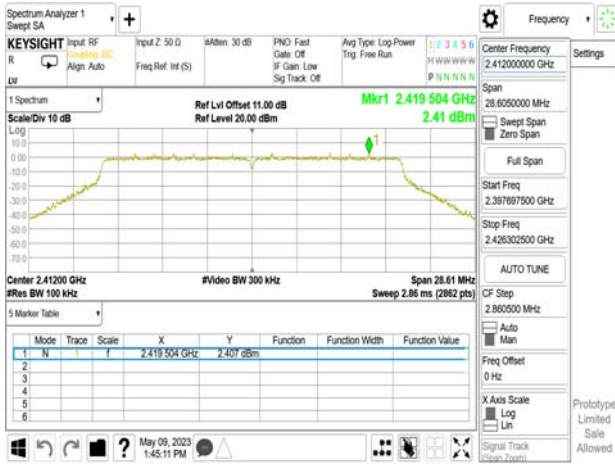


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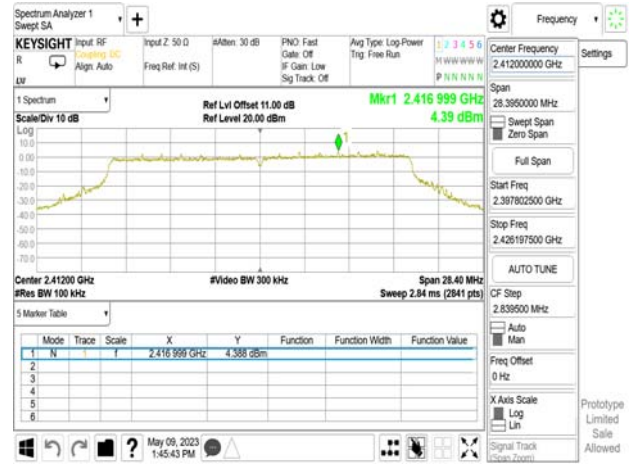
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802.11be_20MHz_Chain0_2412MHz



802.11be_20MHz_Chain1_2412MHz



802.11be_20MHz_Chain0_2437MHz



802.11be_20MHz_Chain1_2437MHz



802.11be_20MHz_Chain0_2462MHz



802.11be_20MHz_Chain1_2462MHz



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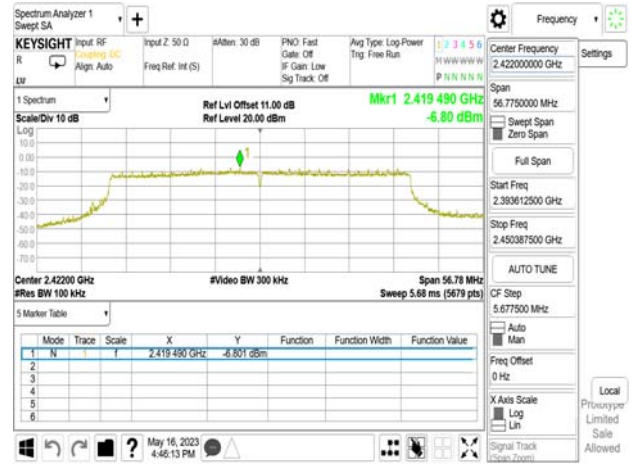
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802.11be_40MHz_Chain0_2422MHz



802.11be_40MHz_Chain1_2422MHz



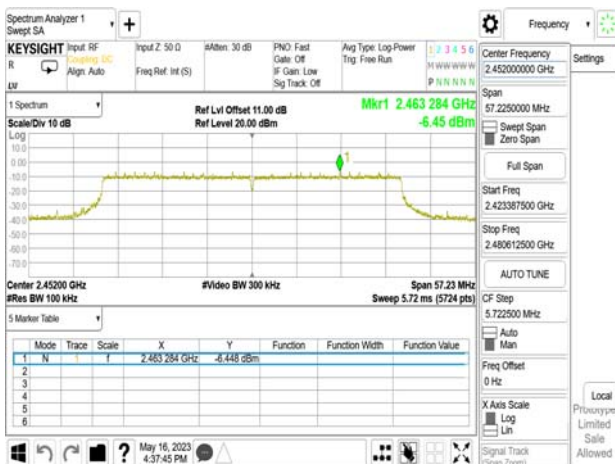
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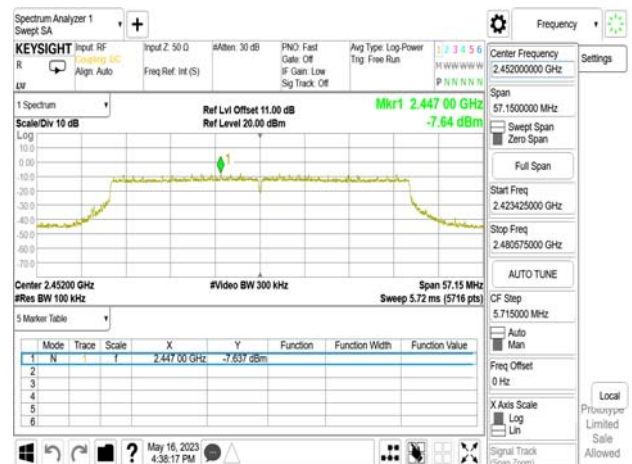
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802.11be_40MHz_Chain0_2452MHz



802.11be_40MHz_Chain1_2452MHz

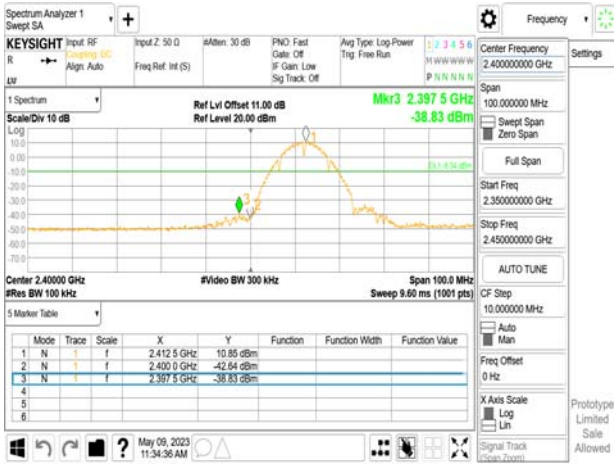


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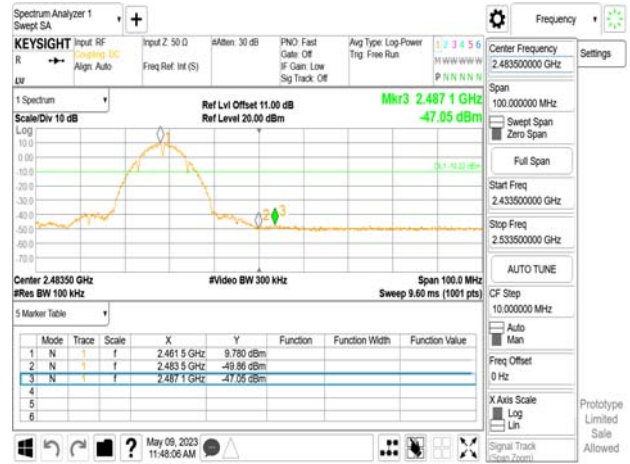
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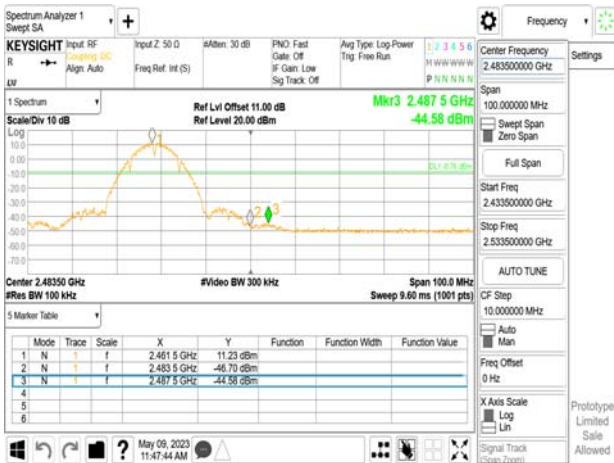
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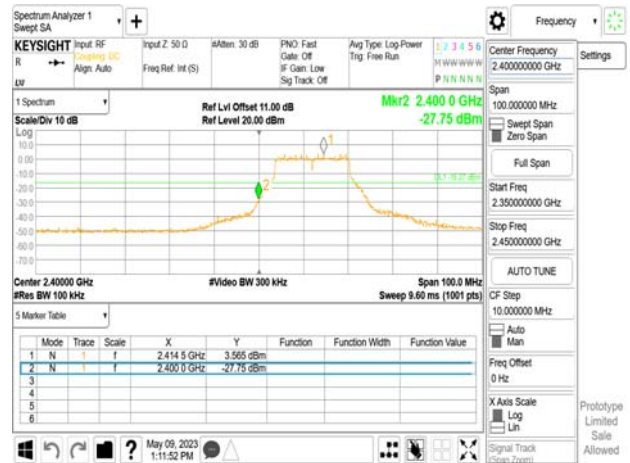
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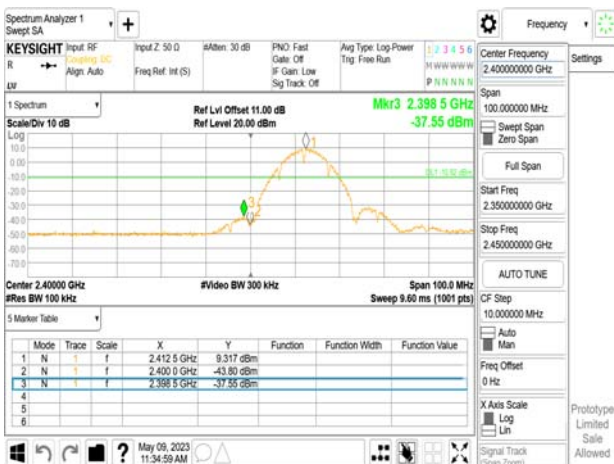
802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2462MHz



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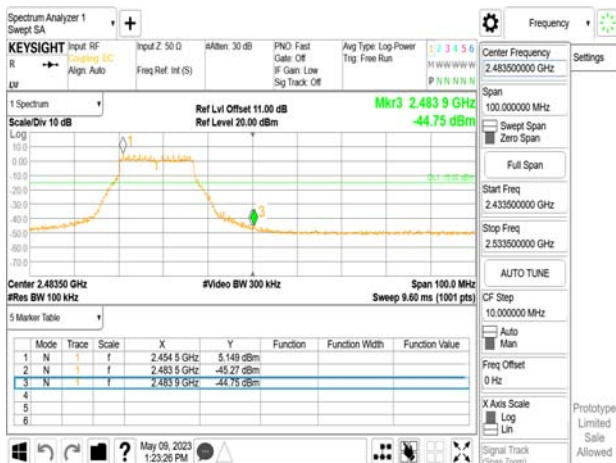
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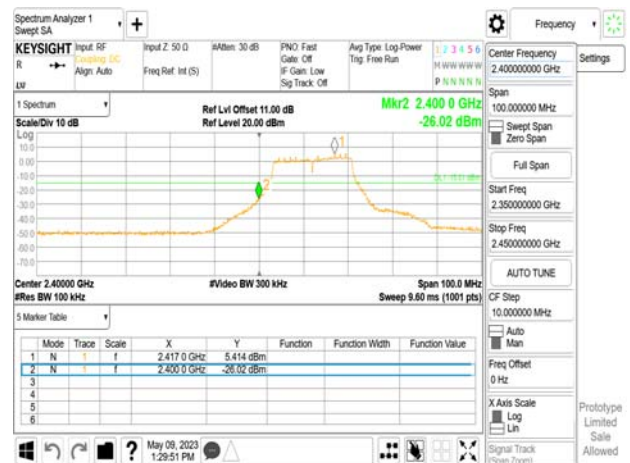
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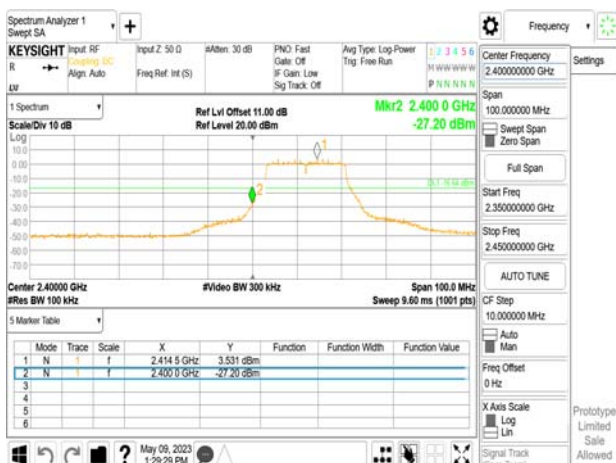
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2462MHz

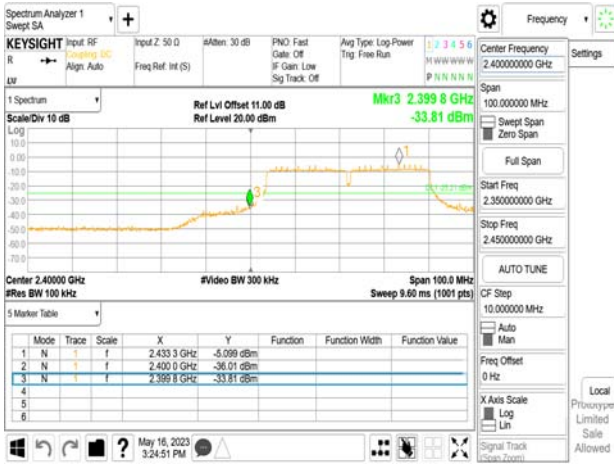


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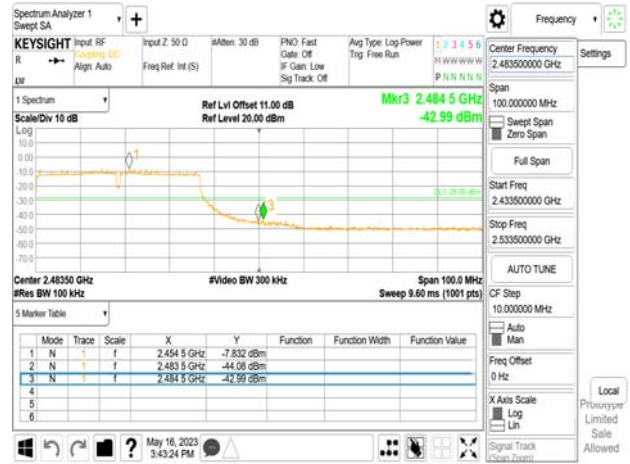
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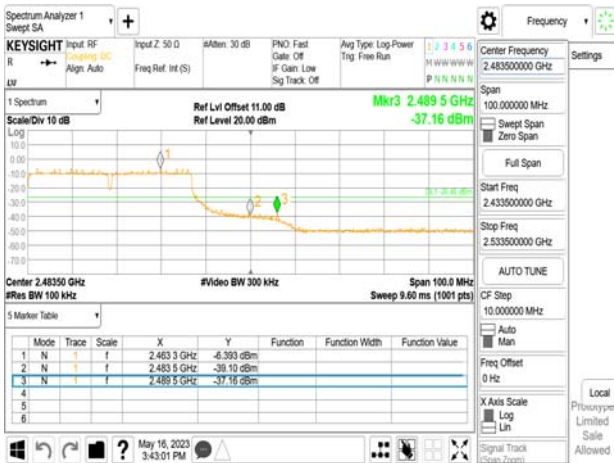
802.11n_40MHz_Chain0_2422MHz



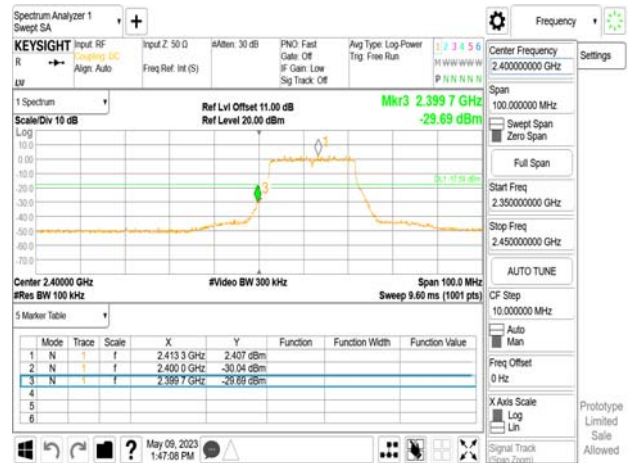
802.11n_40MHz_Chain1_2452MHz



802.11n_40MHz_Chain0_2452MHz



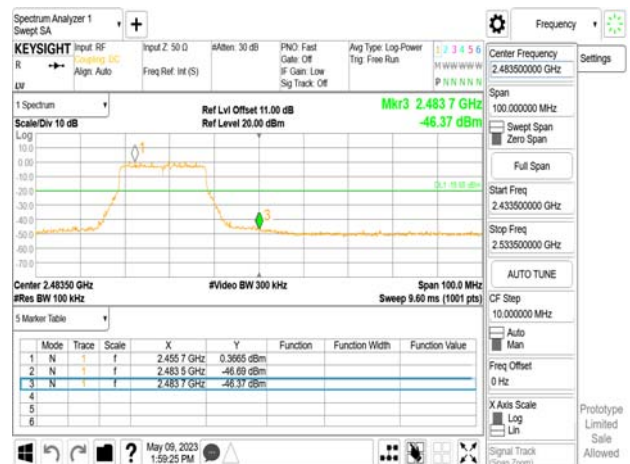
802.11be_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain1_2422MHz



802.11be_20MHz_Chain0_2462MHz



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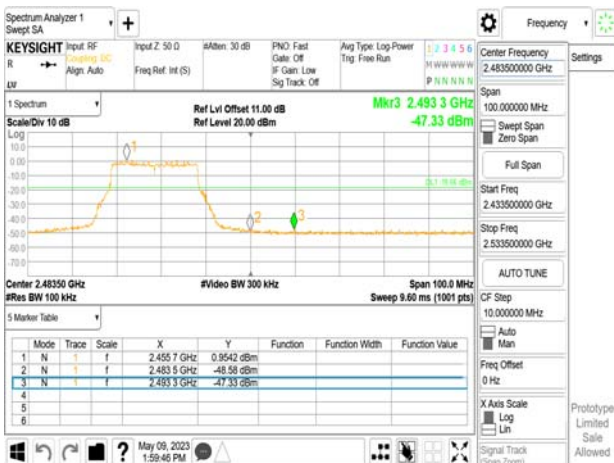
802.11be_20MHz_Chain1_2412MHz



802.11be_40MHz_Chain0_2452MHz



802.11be_20MHz_Chain1_2462MHz



802.11be_40MHz_Chain1_2422MHz



802.11be_40MHz_Chain0_2422MHz



802.11be_40MHz_Chain1_2452MHz



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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain1_2412MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain0_2462MHz



802.11b_20MHz_Chain1_2462MHz



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802.11g_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain1_2412MHz



802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain1_2437MHz



802.11g_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain1_2462MHz



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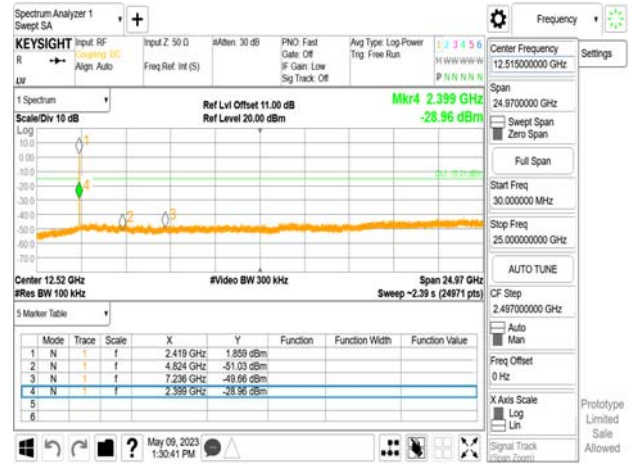
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802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



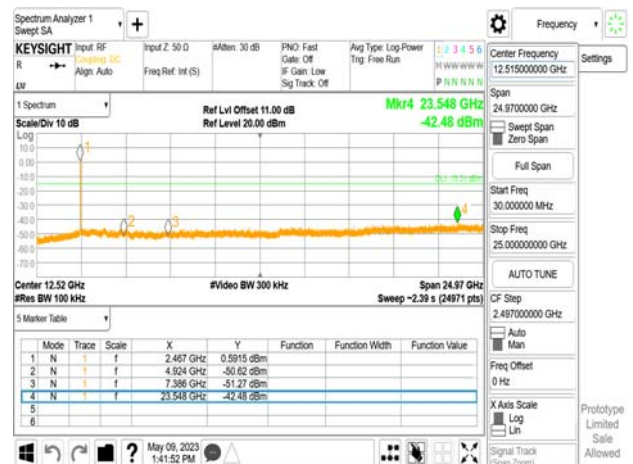
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz



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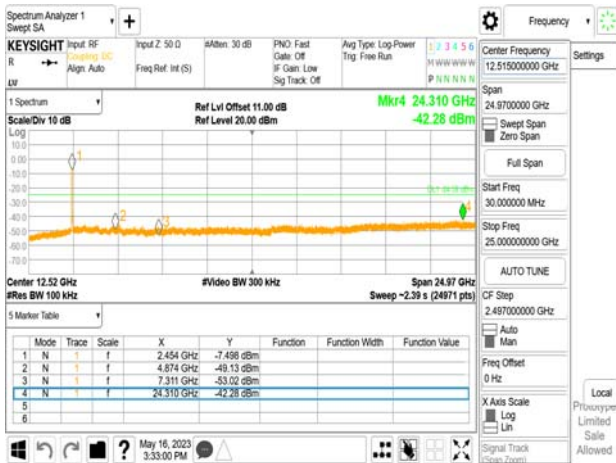
802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



802.11n_40MHz_Chain0_2437MHz



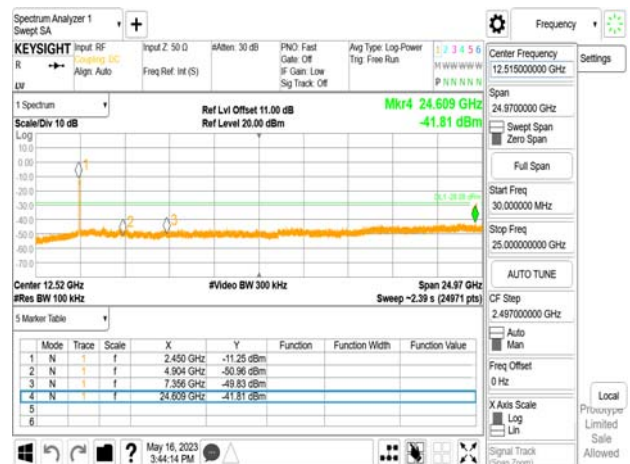
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz



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802.11be_20MHz_Chain0_2412MHz



802.11be_20MHz_Chain1_2412MHz



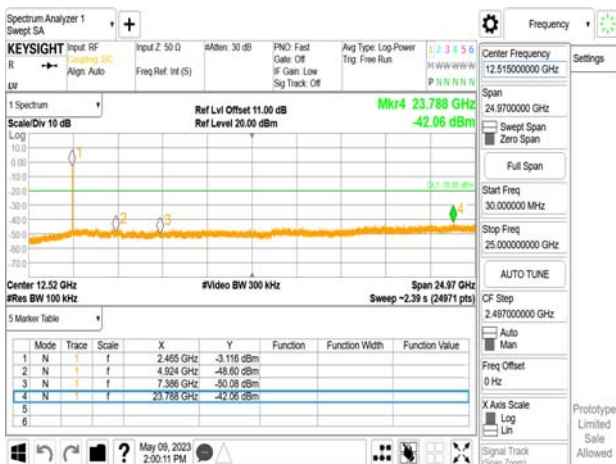
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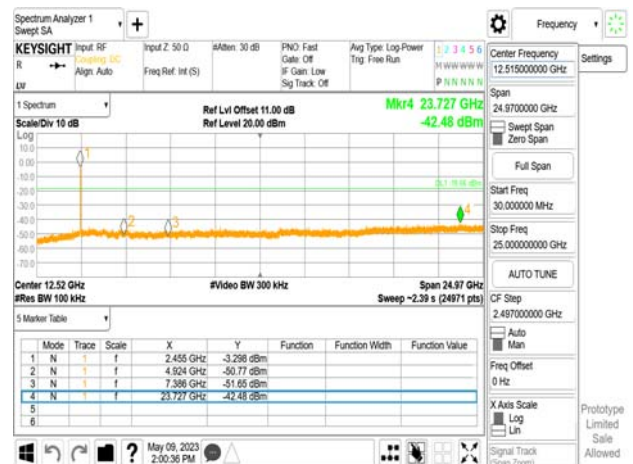
802.11be_20MHz_Chain1_2437MHz



802.11be_20MHz_Chain0_2462MHz



802.11be_20MHz_Chain1_2462MHz



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802.11be_40MHz_Chain0_2422MHz



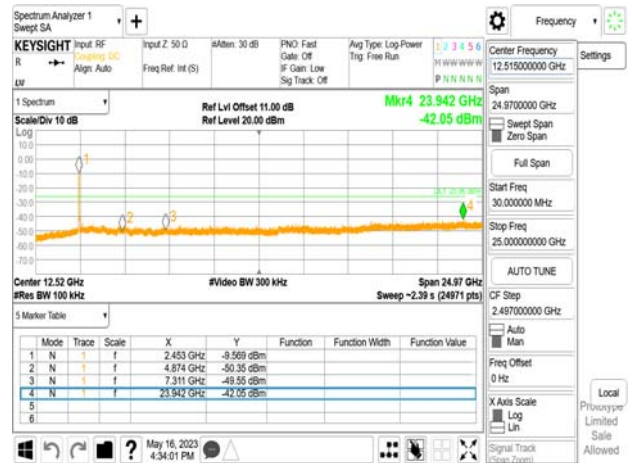
802.11be_40MHz_Chain1_2422MHz



802.11be_40MHz_Chain0_2437MHz



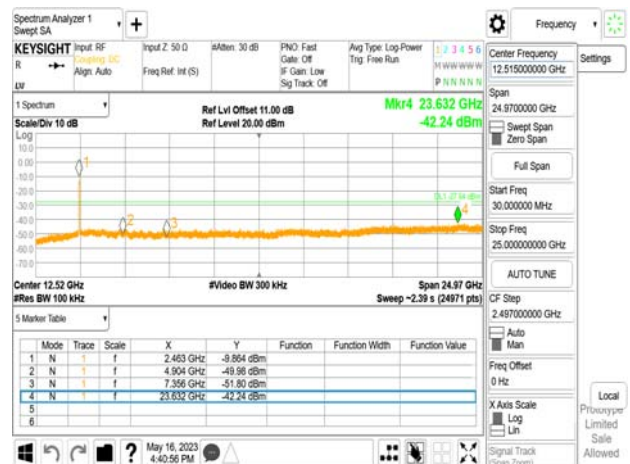
802.11be_40MHz_Chain1_2437MHz



802.11be_40MHz_Chain0_2452MHz



802.11be_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 limit as below.

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

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

Note:

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

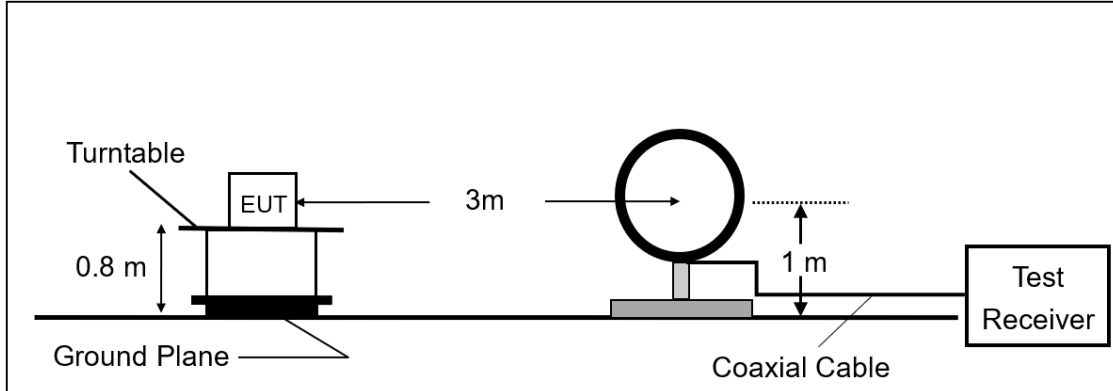
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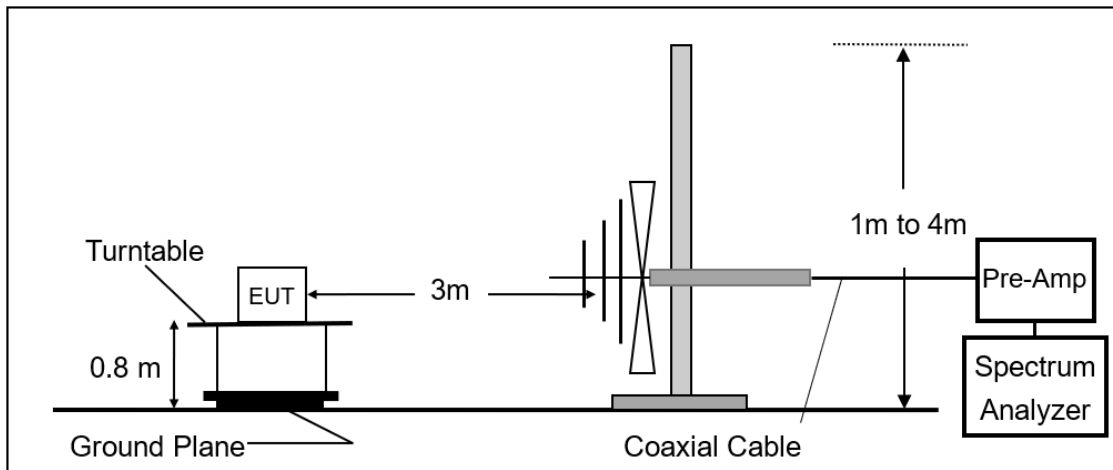
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11.2 Test Setup

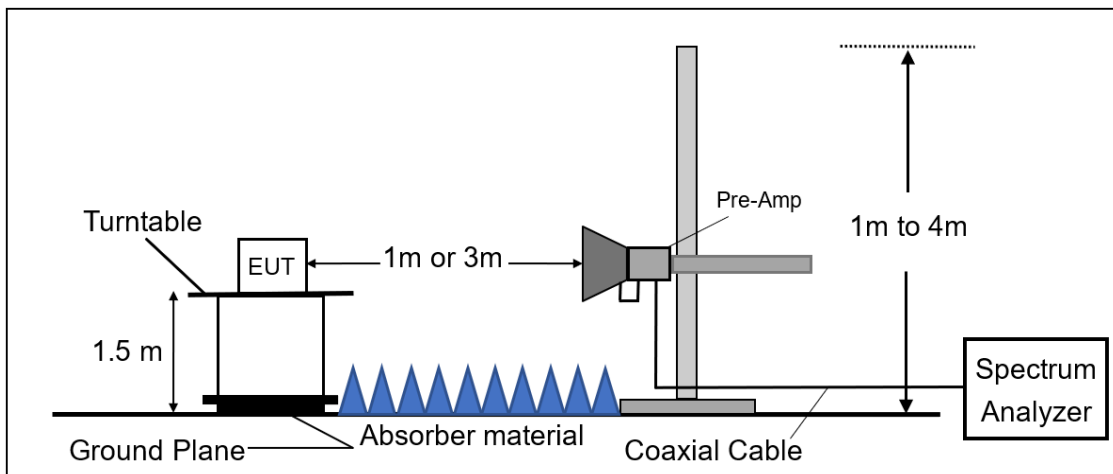
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 Measurement Procedure

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

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11.4 Field Strength Calculation

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

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

Where *FS = Field Strength*

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.6 Measurement Result

Note:

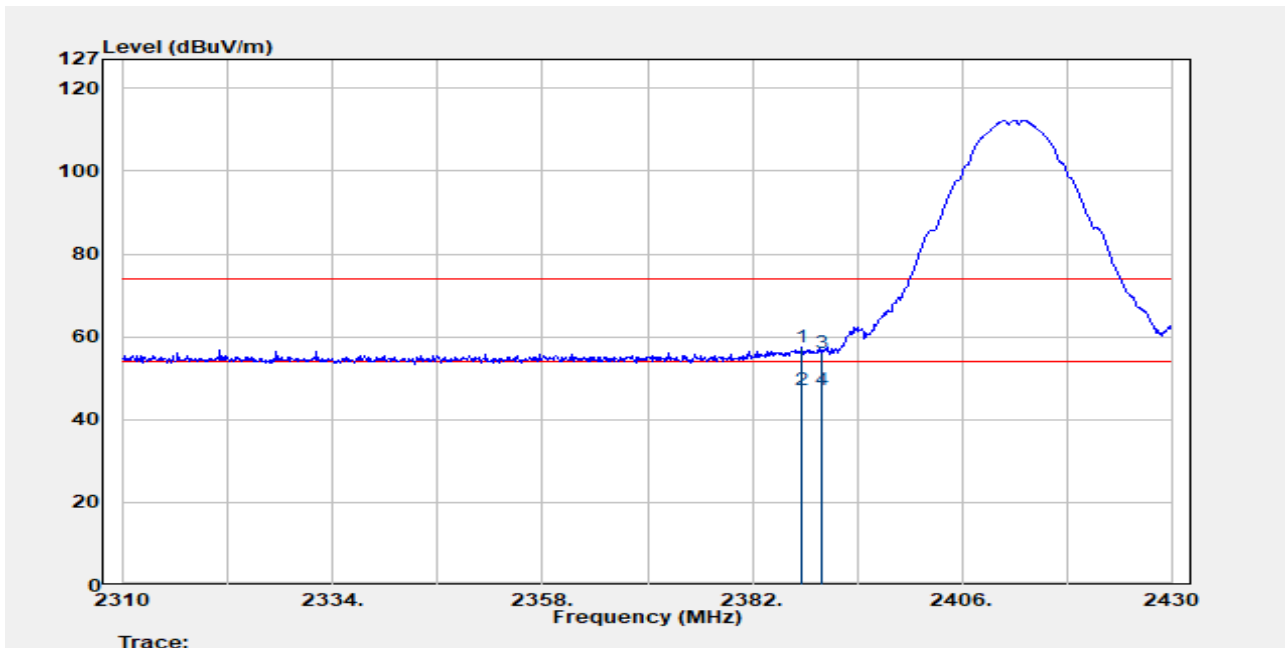
1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

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11.6.1 Radiated Band Edge Measurement Result

Report Number	:TERF2305001081ER	Test Site	:SAC 3
Operation Mode	:802.11b	Test Date	:2023-05-05
Test Frequency	:2412 MHz	Temp./Humi.	:25.7/55
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:E1 Plane	Engineer	:Nick 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
2387.760	Peak	61.65	-4.27	57.38	74.00	-16.62
2387.760	Average	51.33	-4.27	47.06	54.00	-6.94
2390.000	Peak	60.34	-4.25	56.08	74.00	-17.92
2390.000	Average	51.43	-4.25	47.18	54.00	-6.82

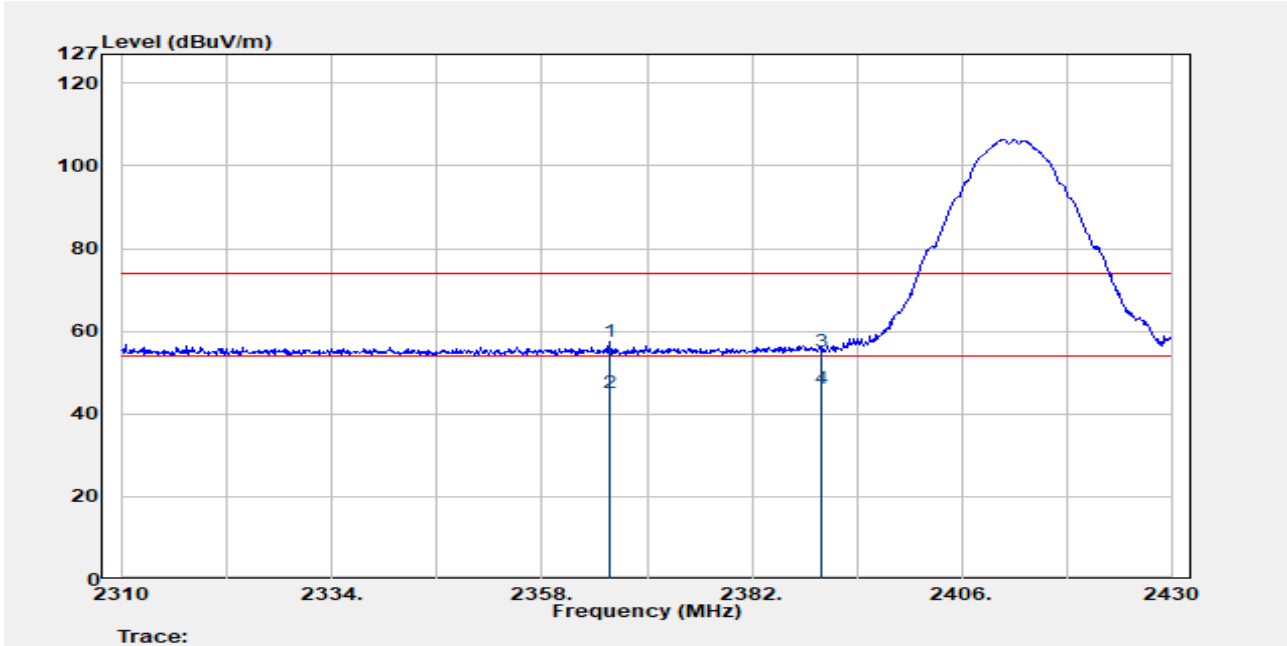
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2365.800	Peak	61.75	-4.43	57.32	74.00	-16.68
2365.800	Average	49.68	-4.43	45.25	54.00	-8.75
2390.000	Peak	59.23	-4.25	54.98	74.00	-19.02
2390.000	Average	50.22	-4.25	45.97	54.00	-8.03

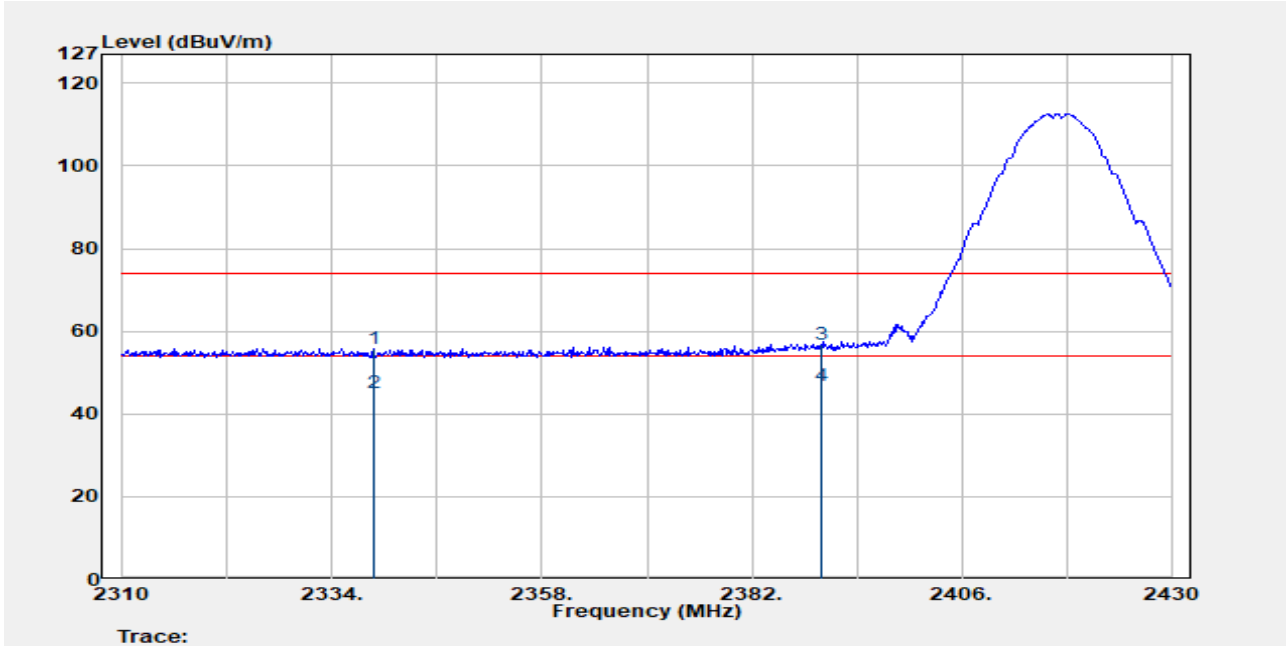
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2338.680	Peak	60.23	-4.50	55.72	74.00	-18.28
2338.680	Average	49.63	-4.50	45.13	54.00	-8.87
2390.000	Peak	60.89	-4.25	56.63	74.00	-17.37
2390.000	Average	51.02	-4.25	46.77	54.00	-7.23

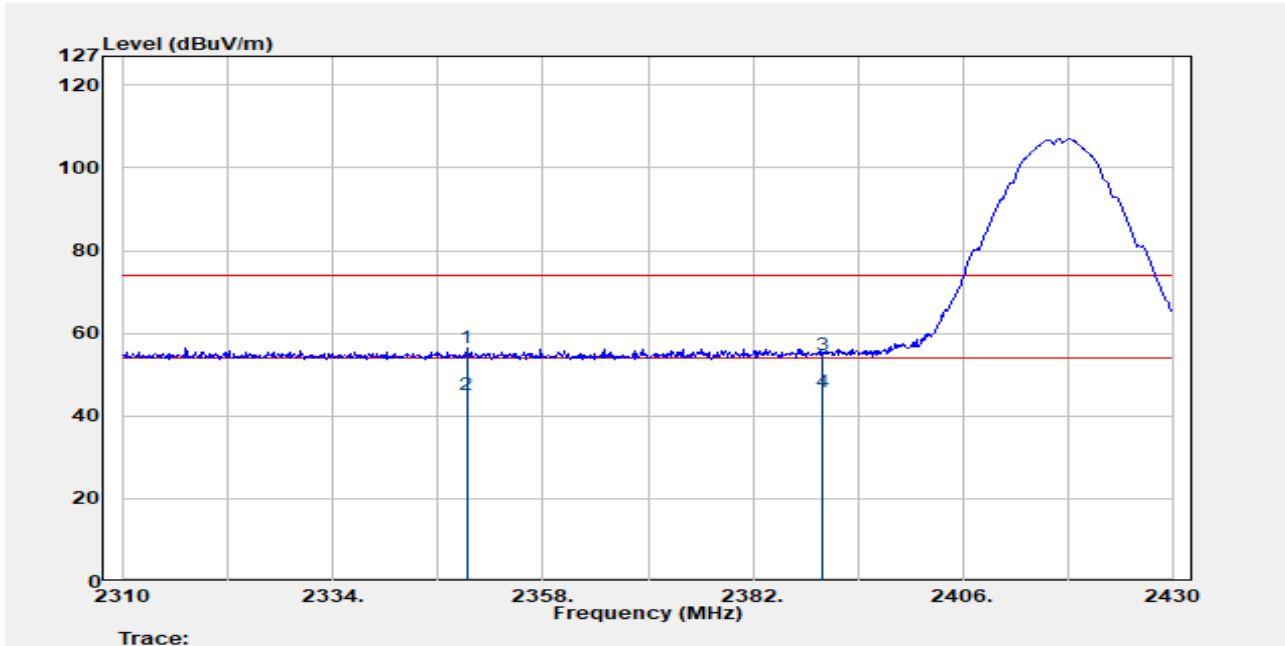
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2349.240	Peak	60.97	-4.55	56.42	74.00	-17.58
2349.240	Average	49.67	-4.55	45.12	54.00	-8.88
2390.000	Peak	58.87	-4.25	54.61	74.00	-19.39
2390.000	Average	50.08	-4.25	45.83	54.00	-8.17

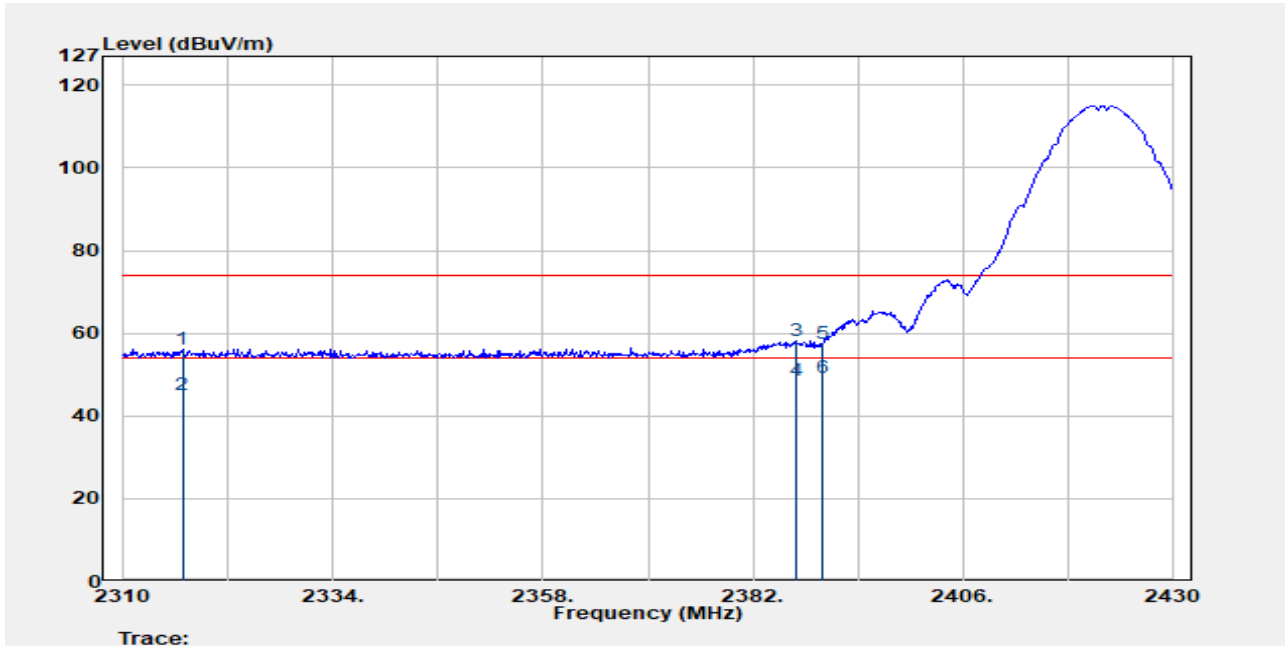
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick 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
2316.720	Peak	60.68	-4.41	56.27	74.00	-17.73
2316.720	Average	49.62	-4.41	45.21	54.00	-8.79
2386.920	Peak	62.51	-4.28	58.24	74.00	-15.76
2386.920	Average	52.72	-4.28	48.44	54.00	-5.56
2390.000	Peak	61.65	-4.25	57.39	74.00	-16.61
2390.000	Average	53.32	-4.25	49.07	54.00	-4.93

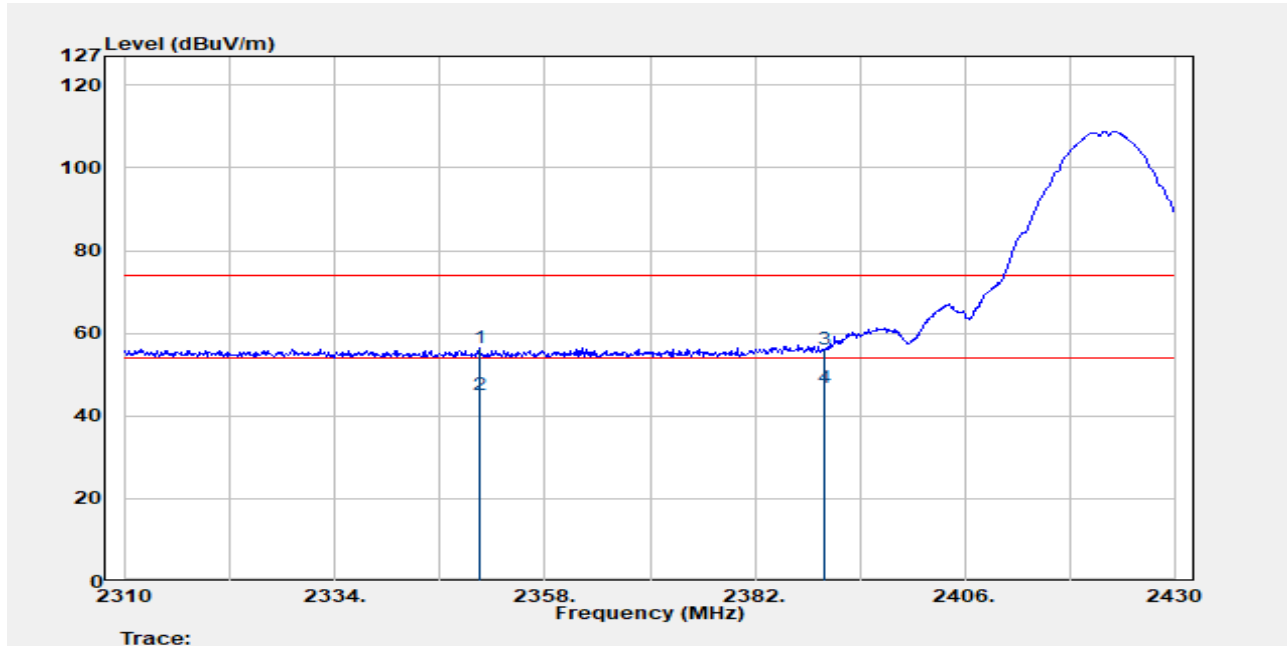
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2350.440	Peak	60.86	-4.55	56.31	74.00	-17.69
2350.440	Average	49.48	-4.55	44.93	54.00	-9.07
2390.000	Peak	60.30	-4.25	56.04	74.00	-17.96
2390.000	Average	50.98	-4.25	46.73	54.00	-7.27

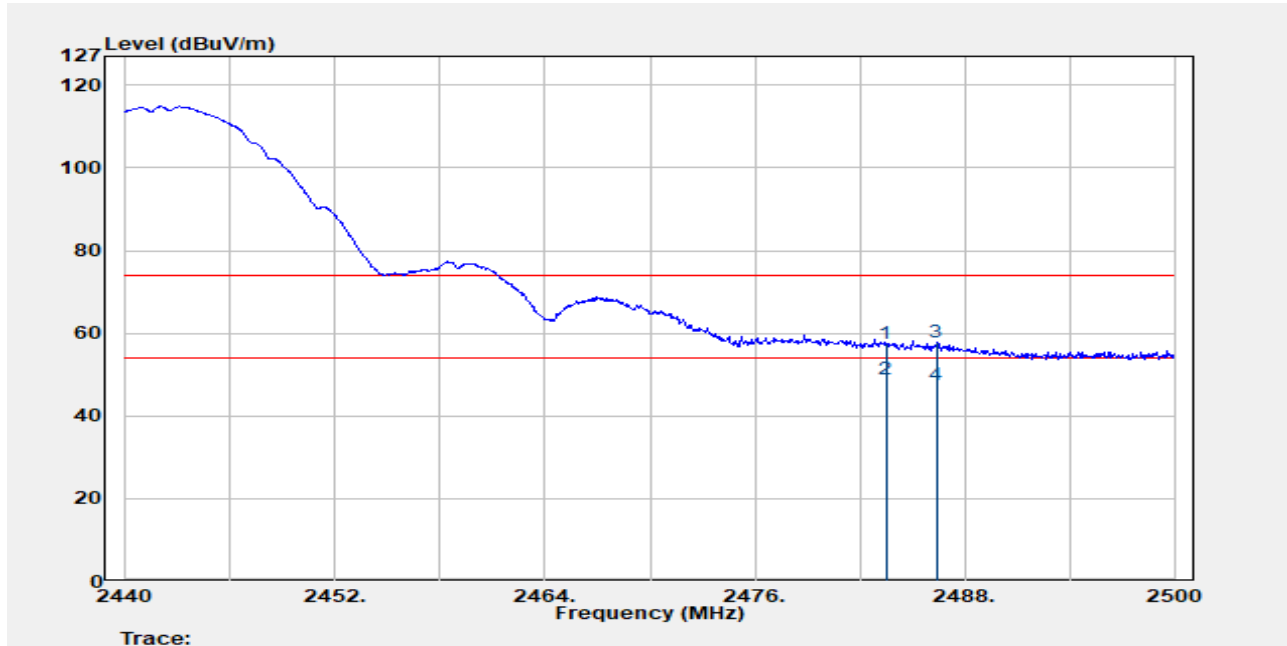
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2442 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick 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
2483.500	Peak	62.25	-4.64	57.61	74.00	-16.39
2483.500	Average	53.38	-4.64	48.74	54.00	-5.26
2486.380	Peak	62.34	-4.63	57.70	74.00	-16.30
2486.380	Average	52.19	-4.63	47.56	54.00	-6.44

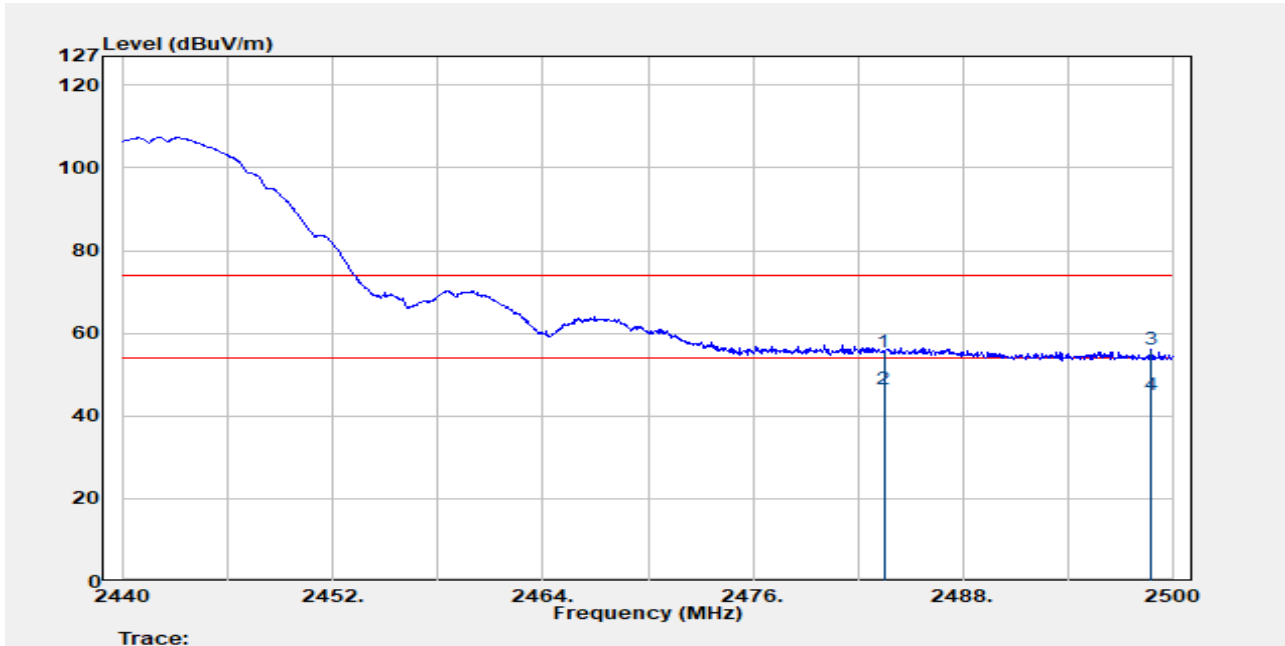
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2442 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	60.08	-4.64	55.44	74.00	-18.56
2483.500	Average	51.08	-4.64	46.44	54.00	-7.56
2498.800	Peak	60.53	-4.59	55.93	74.00	-18.07
2498.800	Average	49.61	-4.59	45.02	54.00	-8.98

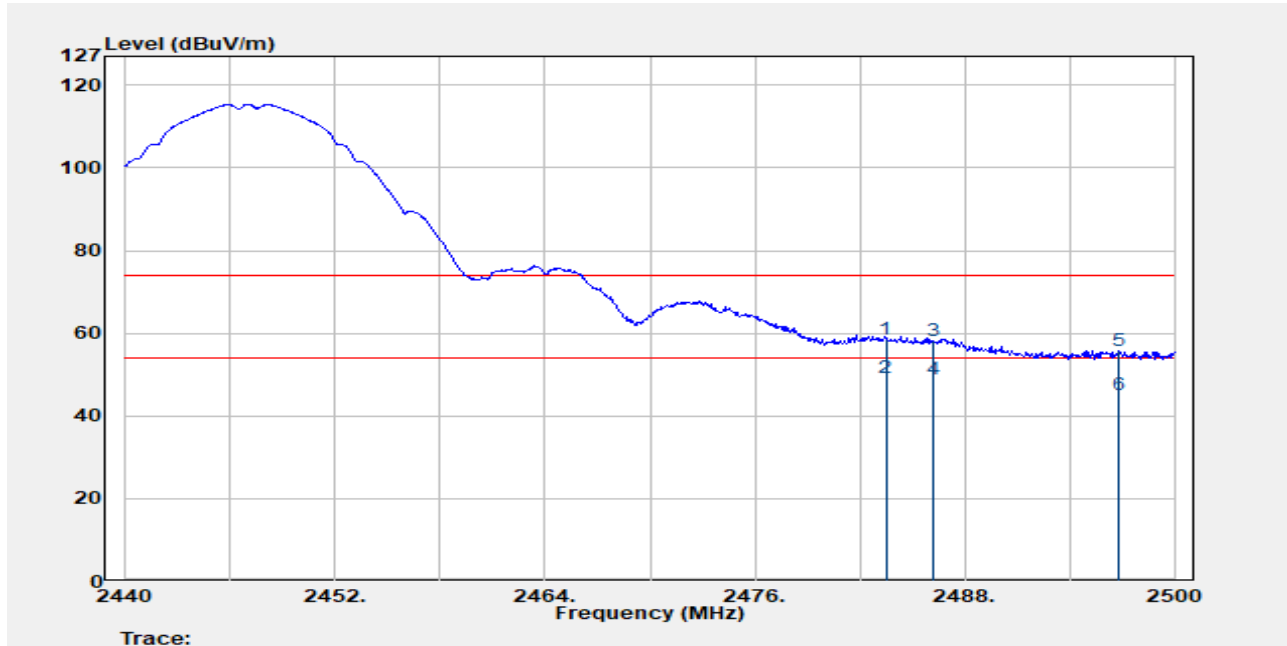
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	63.02	-4.64	58.37	74.00	-15.63
2483.500	Average	53.86	-4.64	49.22	54.00	-4.78
2486.260	Peak	62.71	-4.63	58.08	74.00	-15.92
2486.260	Average	53.46	-4.63	48.83	54.00	-5.17
2496.820	Peak	60.28	-4.60	55.68	74.00	-18.32
2496.820	Average	49.58	-4.60	44.98	54.00	-9.02

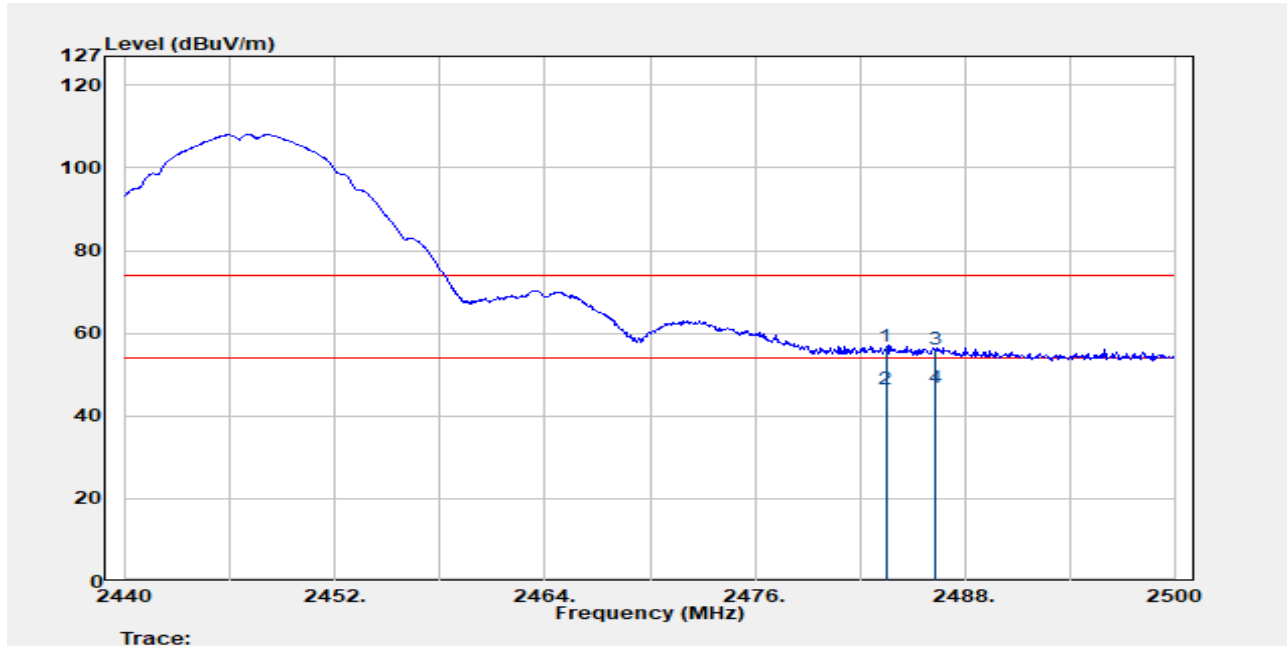
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2447 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	61.27	-4.64	56.62	74.00	-17.38
2483.500	Average	51.23	-4.64	46.59	54.00	-7.41
2486.320	Peak	60.66	-4.63	56.03	74.00	-17.97
2486.320	Average	51.29	-4.63	46.66	54.00	-7.34

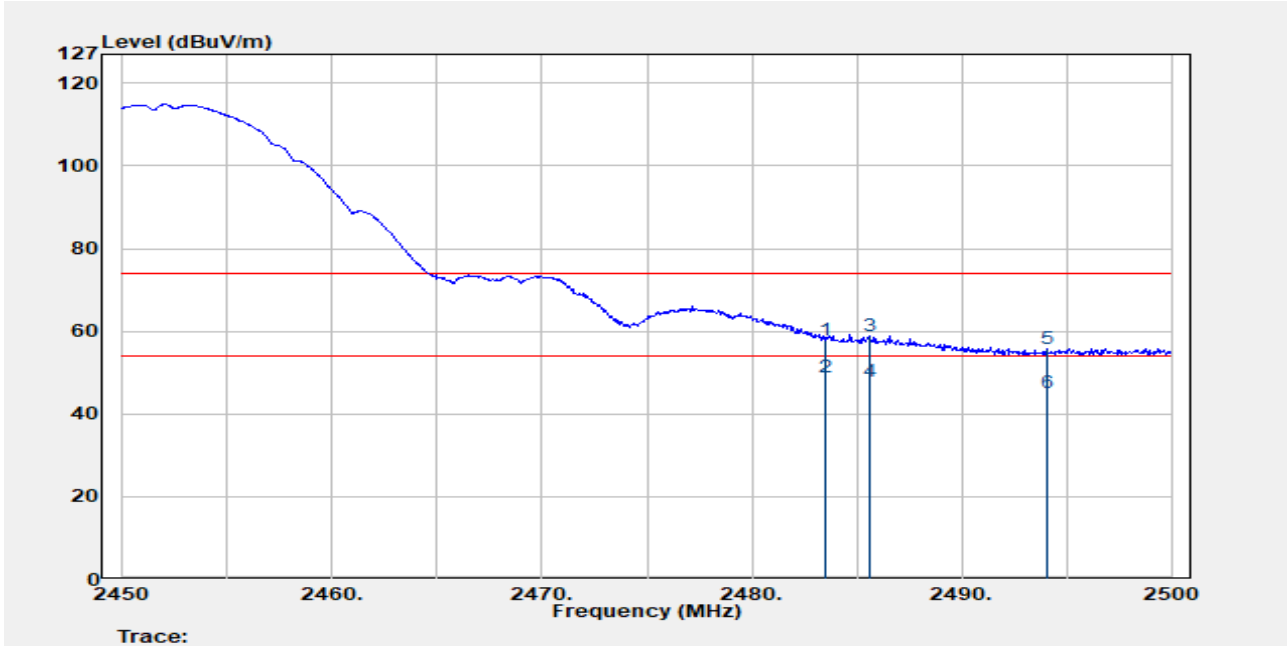
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



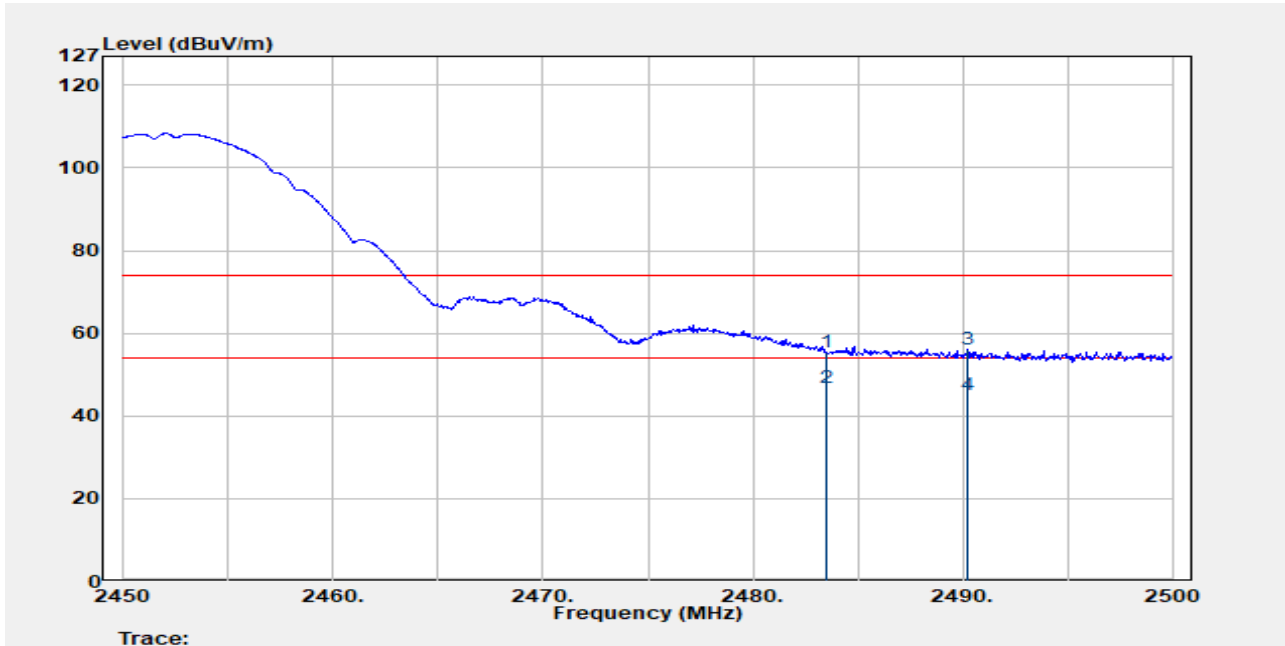
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	62.62	-4.64	57.97	74.00	-16.03
2483.500	Average	53.52	-4.64	48.88	54.00	-5.12
2485.600	Peak	63.54	-4.64	58.90	74.00	-15.10
2485.600	Average	52.48	-4.64	47.84	54.00	-6.16
2494.050	Peak	60.42	-4.61	55.81	74.00	-18.19
2494.050	Average	49.53	-4.61	44.92	54.00	-9.08

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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2452 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	59.97	-4.64	55.33	74.00	-18.67
2483.500	Average	51.32	-4.64	46.68	54.00	-7.32
2490.250	Peak	60.78	-4.62	56.16	74.00	-17.84
2490.250	Average	49.78	-4.62	45.16	54.00	-8.84

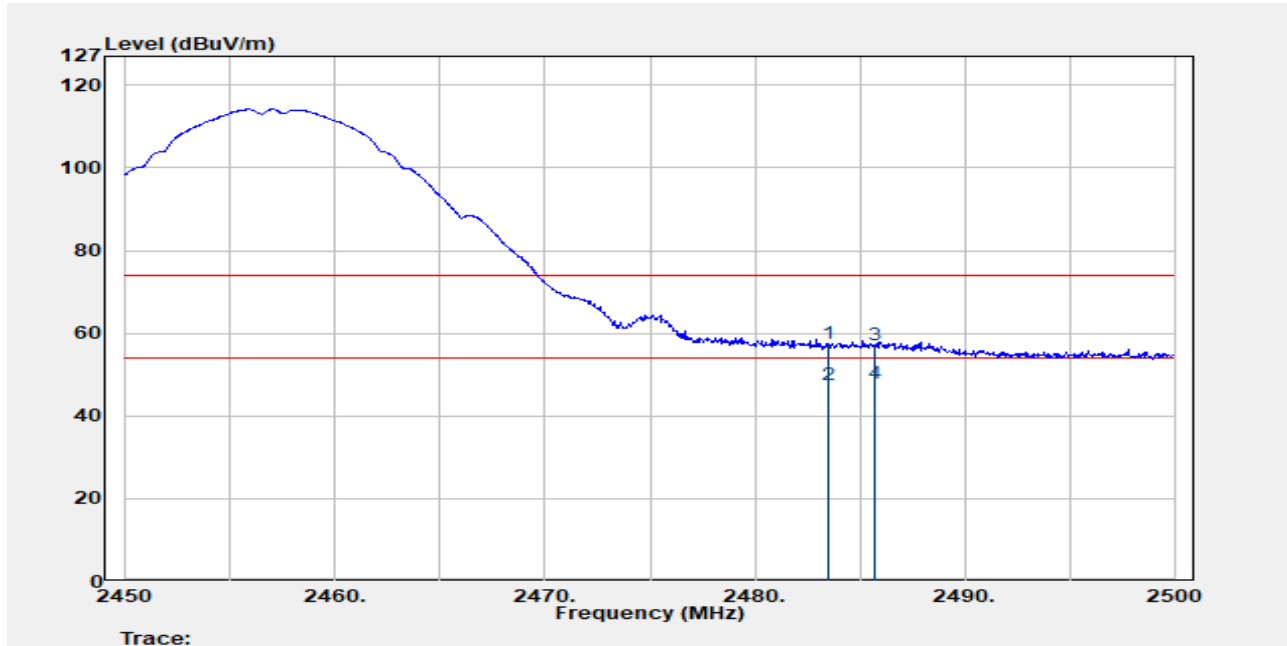
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	61.97	-4.64	57.33	74.00	-16.67
2483.500	Average	52.06	-4.64	47.42	54.00	-6.58
2485.750	Peak	61.92	-4.64	57.29	74.00	-16.71
2485.750	Average	52.58	-4.64	47.94	54.00	-6.06

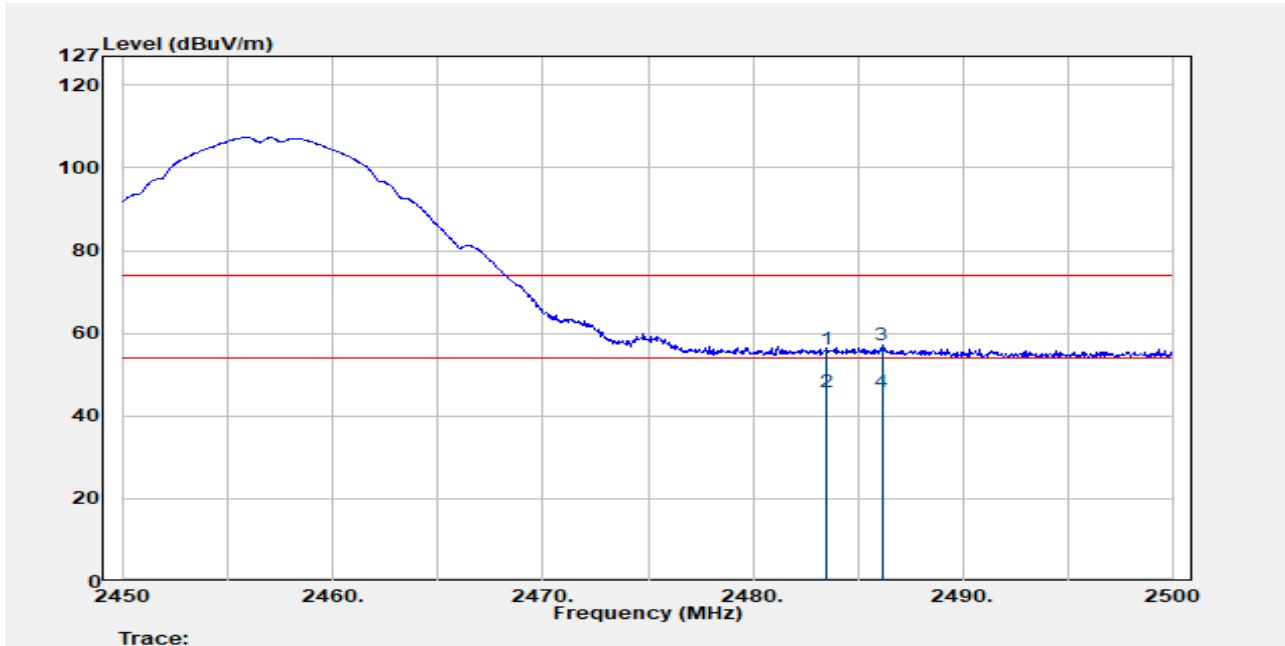
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2457 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	60.67	-4.64	56.02	74.00	-17.98
2483.500	Average	50.56	-4.64	45.92	54.00	-8.08
2486.150	Peak	61.81	-4.63	57.17	74.00	-16.83
2486.150	Average	50.35	-4.63	45.72	54.00	-8.28

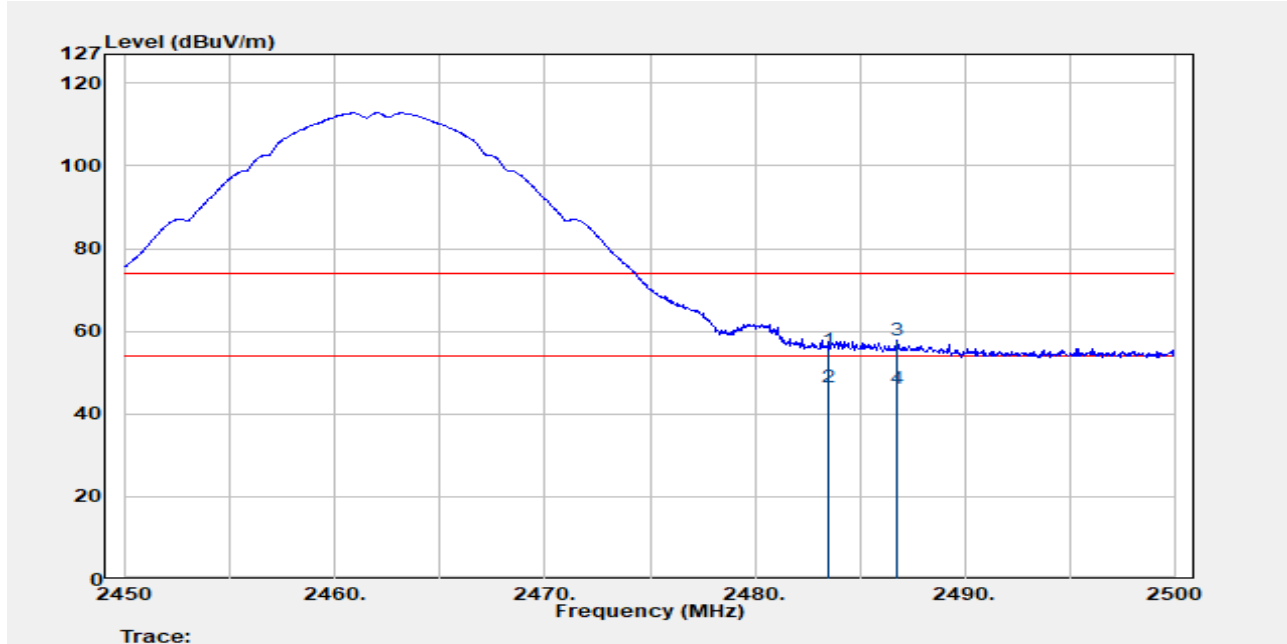
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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



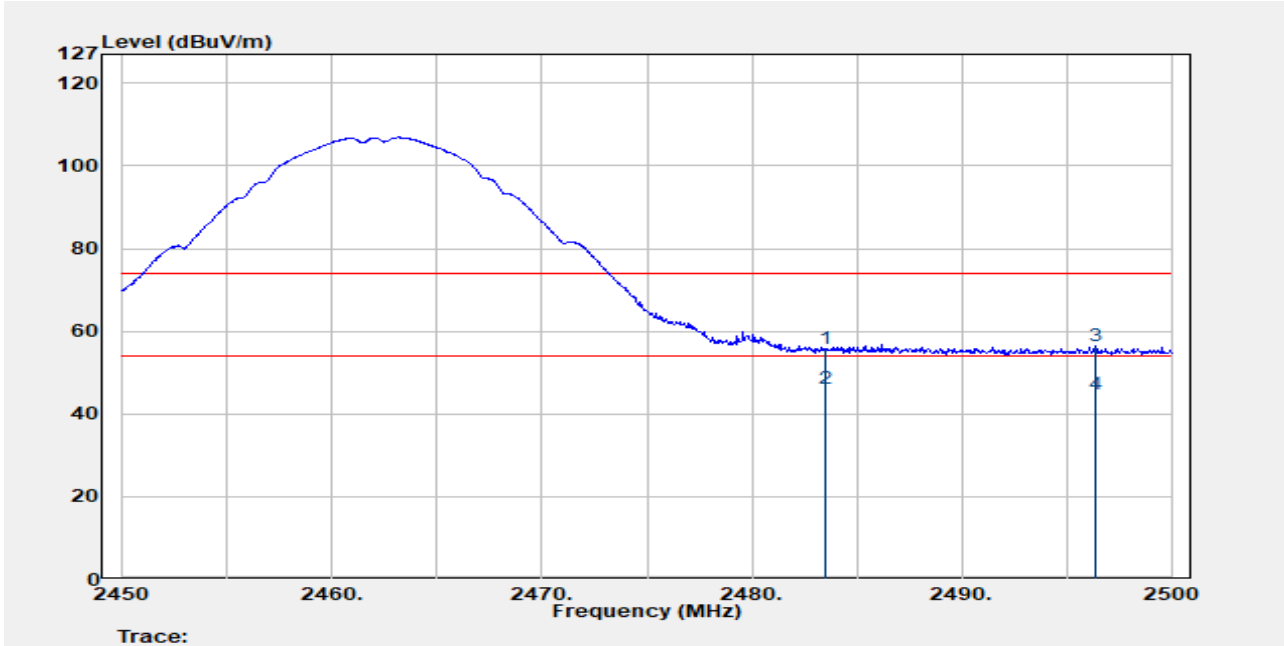
Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	60.11	-4.64	55.47	74.00	-18.53
2483.500	Average	51.22	-4.64	46.58	54.00	-7.42
2486.750	Peak	62.57	-4.63	57.93	74.00	-16.07
2486.750	Average	50.92	-4.63	46.29	54.00	-7.71

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Report Number :TERF2305001081ER
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2483.500	Peak	60.44	-4.64	55.79	74.00	-18.21
2483.500	Average	50.65	-4.64	46.01	54.00	-7.99
2496.350	Peak	60.94	-4.60	56.33	74.00	-17.67
2496.350	Average	49.48	-4.60	44.88	54.00	-9.12

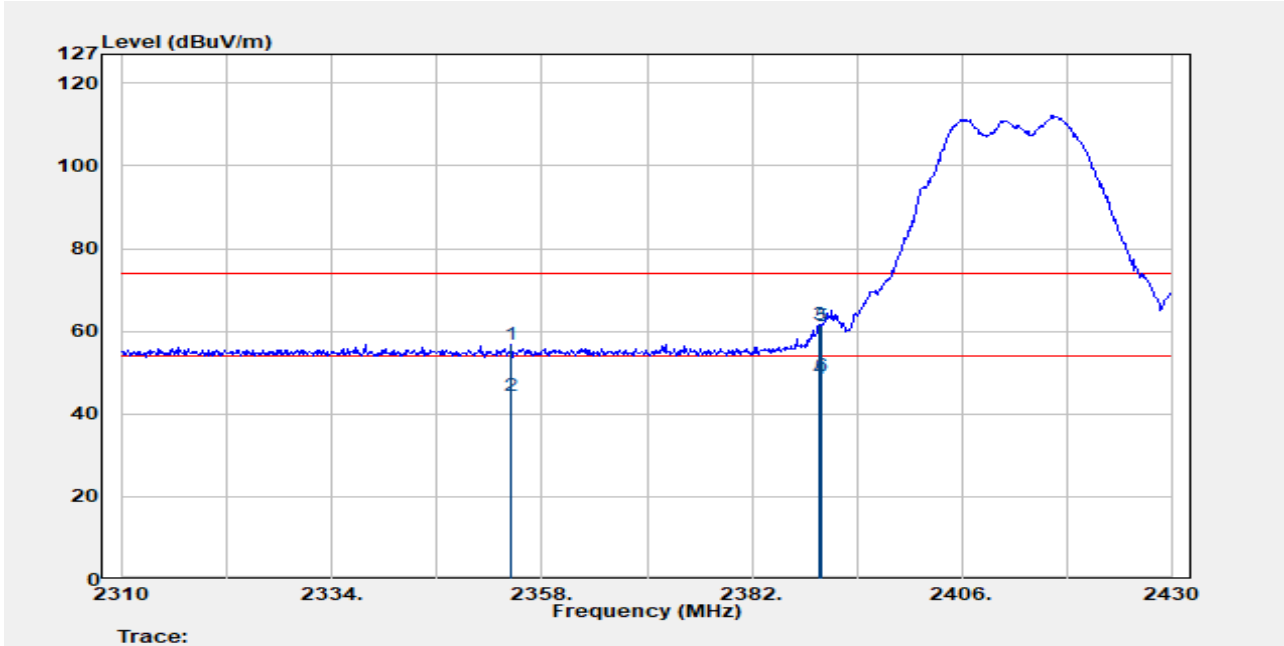
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2354.520	Peak	61.14	-4.52	56.63	74.00	-17.37
2354.520	Average	48.85	-4.52	44.33	54.00	-9.67
2389.680	Peak	65.80	-4.26	61.55	74.00	-12.45
2389.680	Average	52.79	-4.26	48.53	54.00	-5.47
2390.000	Peak	65.61	-4.25	61.36	74.00	-12.64
2390.000	Average	53.56	-4.25	49.31	54.00	-4.69

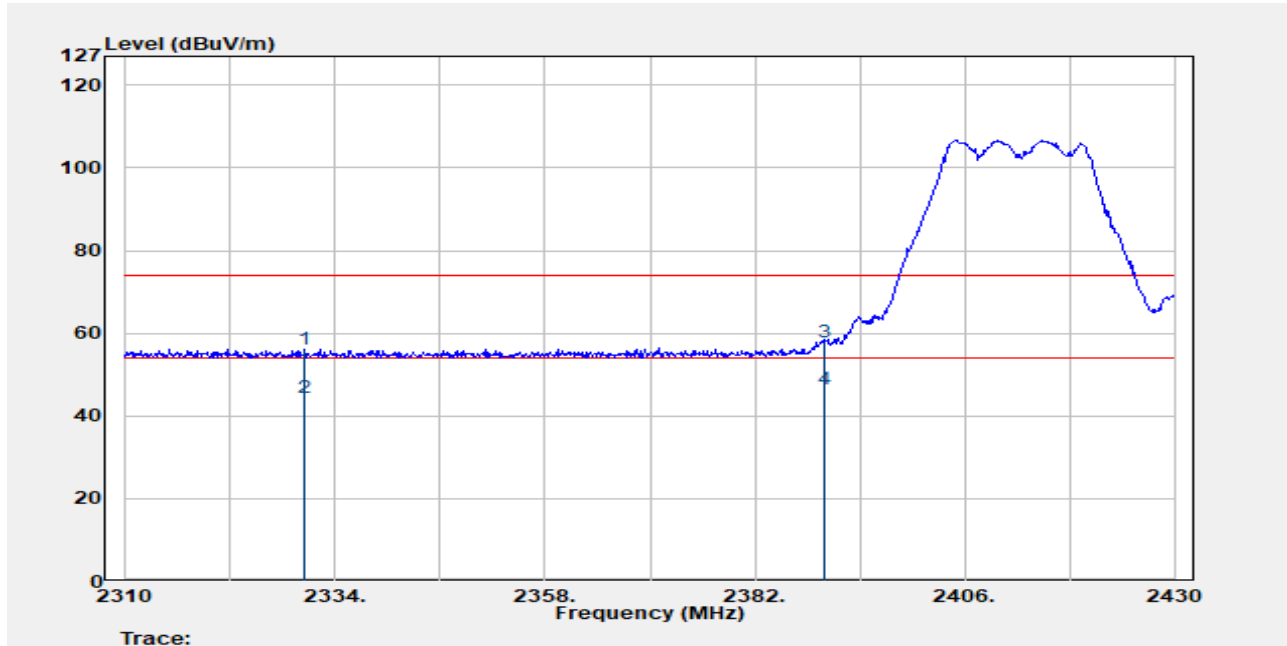
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2330.520	Peak	60.60	-4.47	56.13	74.00	-17.87
2330.520	Average	48.78	-4.47	44.31	54.00	-9.69
2390.000	Peak	62.05	-4.25	57.79	74.00	-16.21
2390.000	Average	50.72	-4.25	46.47	54.00	-7.53

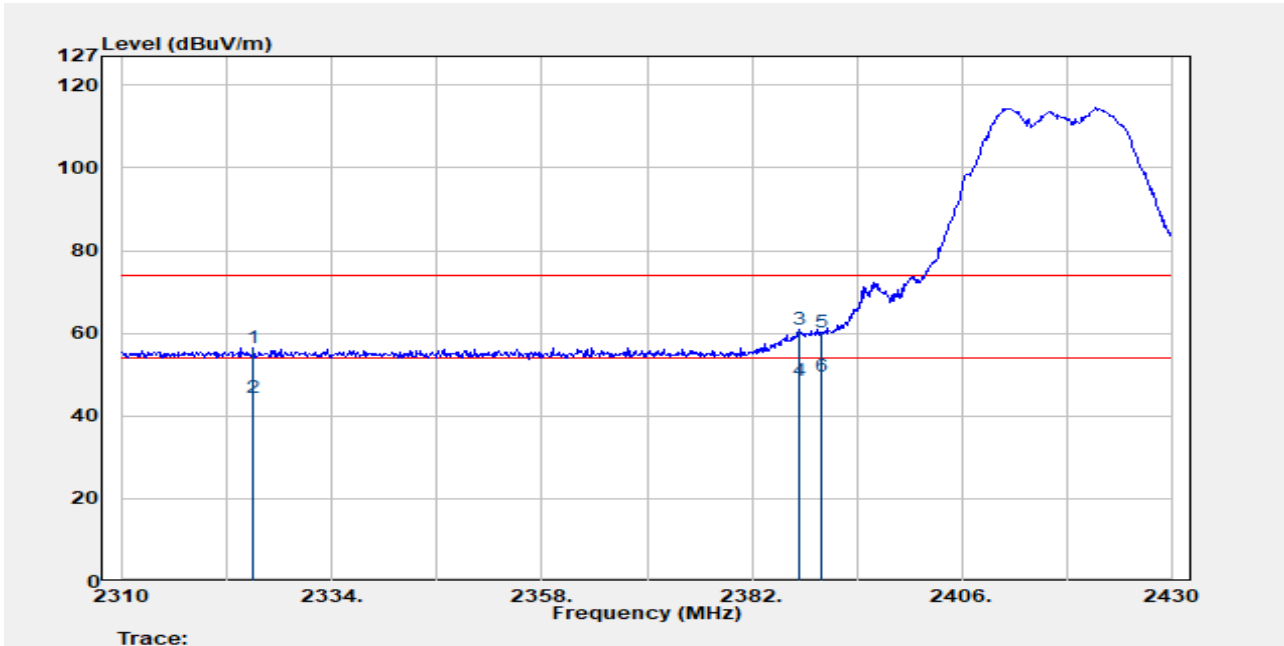
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2325.000	Peak	61.00	-4.45	56.56	74.00	-17.44
2325.000	Average	48.79	-4.45	44.34	54.00	-9.66
2387.520	Peak	65.04	-4.27	60.77	74.00	-13.23
2387.520	Average	52.69	-4.27	48.42	54.00	-5.58
2390.000	Peak	64.39	-4.25	60.14	74.00	-13.86
2390.000	Average	53.89	-4.25	49.64	54.00	-4.36

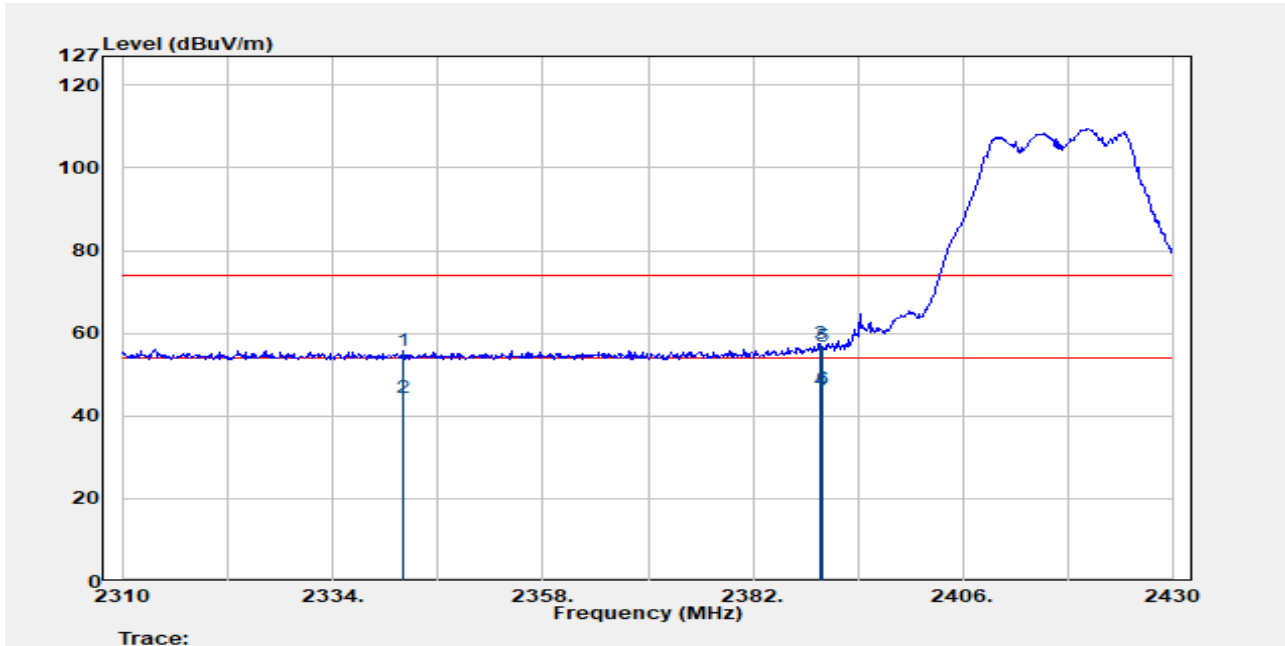
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2341.920	Peak	60.33	-4.52	55.81	74.00	-18.19
2341.920	Average	48.78	-4.52	44.26	54.00	-9.74
2389.800	Peak	61.65	-4.25	57.39	74.00	-16.61
2389.800	Average	50.34	-4.25	46.09	54.00	-7.91
2390.000	Peak	60.99	-4.25	56.74	74.00	-17.26
2390.000	Average	50.63	-4.25	46.38	54.00	-7.62

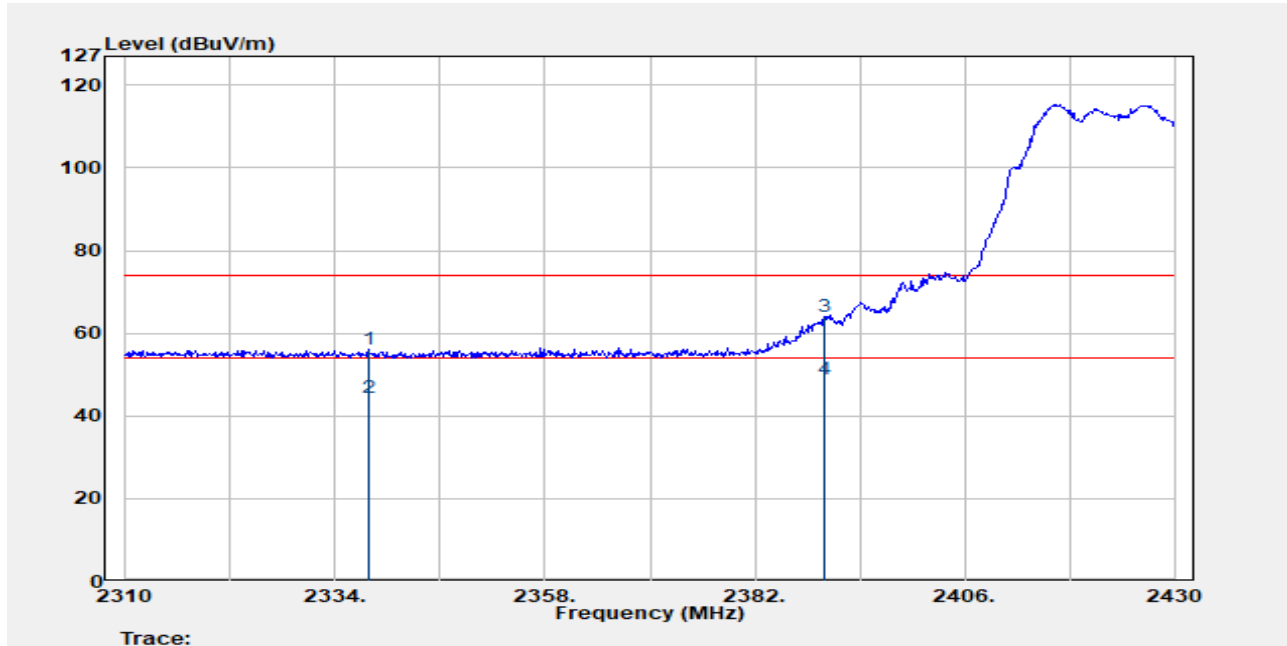
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2337.720	Peak	60.62	-4.50	56.12	74.00	-17.88
2337.720	Average	48.87	-4.50	44.37	54.00	-9.63
2390.000	Peak	68.13	-4.25	63.88	74.00	-10.12
2390.000	Average	53.24	-4.25	48.99	54.00	-5.01

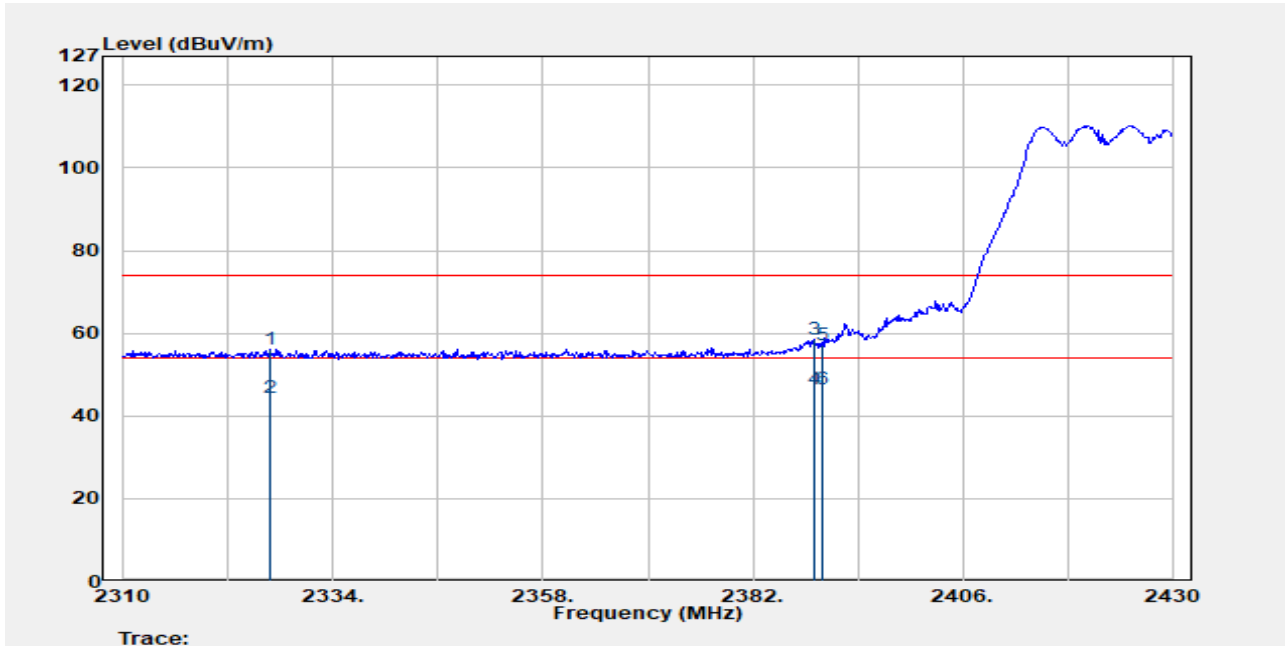
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2422 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2326.680	Peak	60.55	-4.45	56.10	74.00	-17.90
2326.680	Average	48.85	-4.45	44.40	54.00	-9.60
2389.080	Peak	62.87	-4.26	58.61	74.00	-15.39
2389.080	Average	50.58	-4.26	46.32	54.00	-7.68
2390.000	Peak	61.31	-4.25	57.06	74.00	-16.94
2390.000	Average	50.82	-4.25	46.57	54.00	-7.43

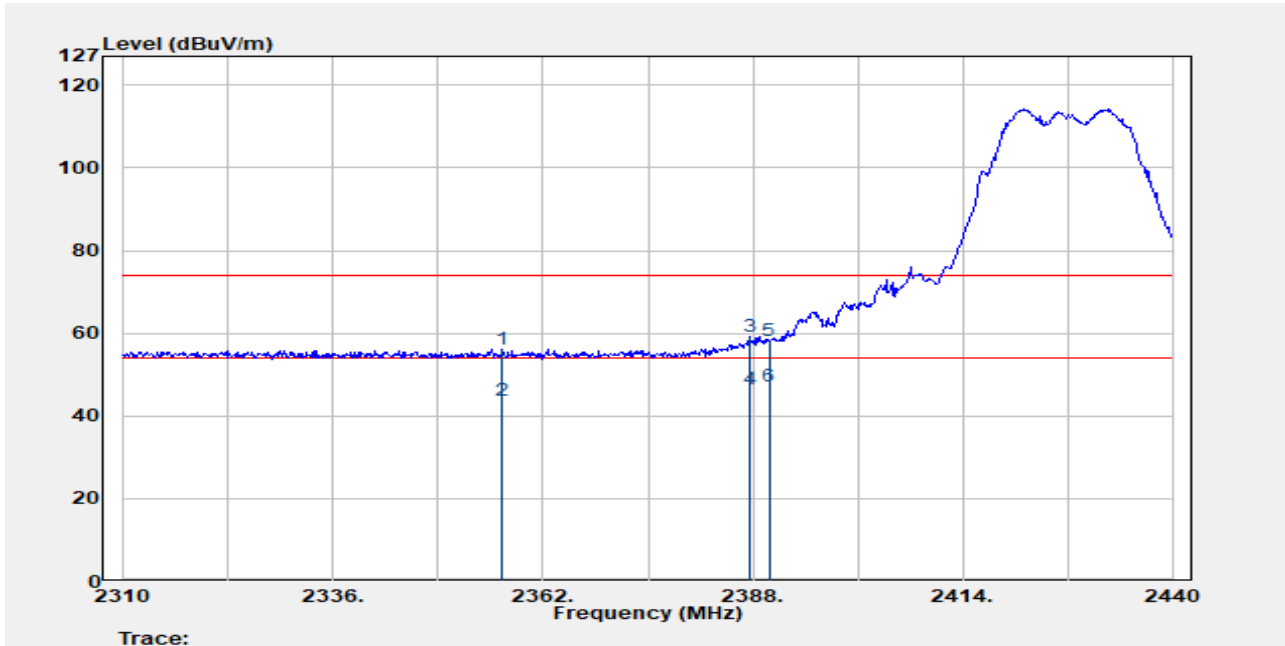
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2356.930	Peak	60.67	-4.50	56.17	74.00	-17.83
2356.930	Average	48.34	-4.50	43.84	54.00	-10.16
2387.740	Peak	63.64	-4.27	59.37	74.00	-14.63
2387.740	Average	50.70	-4.27	46.43	54.00	-7.57
2390.000	Peak	62.57	-4.25	58.32	74.00	-15.68
2390.000	Average	51.32	-4.25	47.07	54.00	-6.93

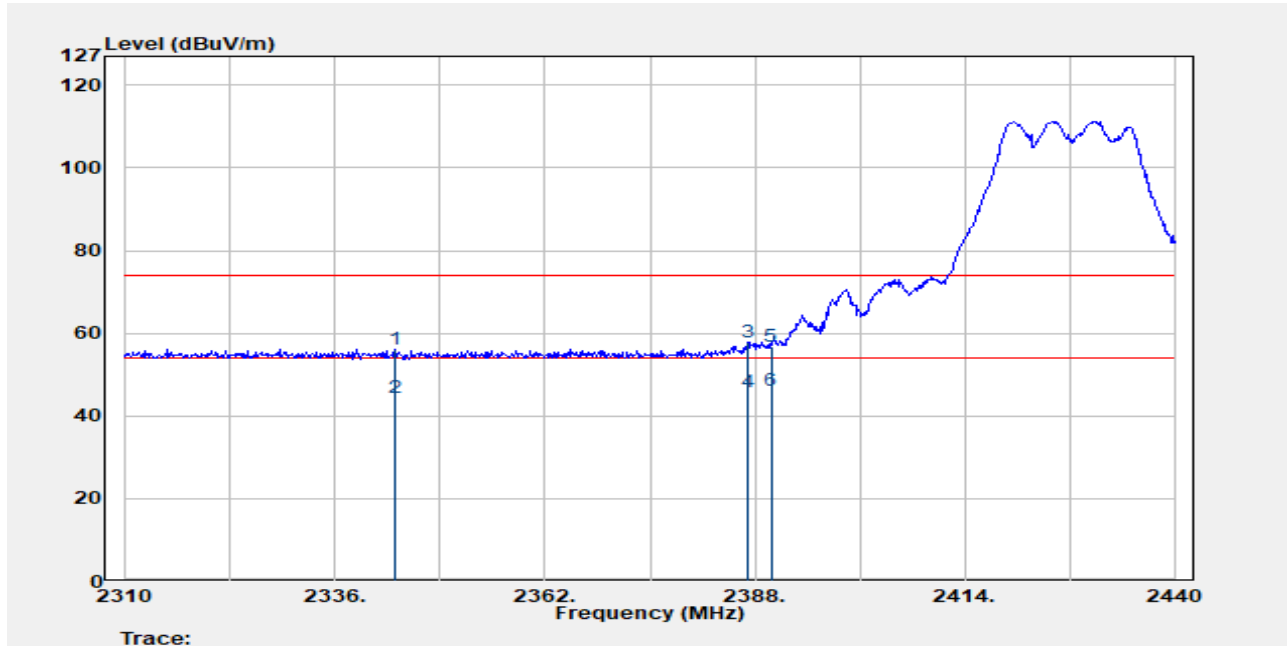
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2427 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2343.280	Peak	60.71	-4.52	56.19	74.00	-17.81
2343.280	Average	48.87	-4.52	44.35	54.00	-9.65
2387.220	Peak	62.24	-4.27	57.97	74.00	-16.03
2387.220	Average	49.92	-4.27	45.65	54.00	-8.35
2390.000	Peak	61.19	-4.25	56.94	74.00	-17.06
2390.000	Average	50.43	-4.25	46.18	54.00	-7.82

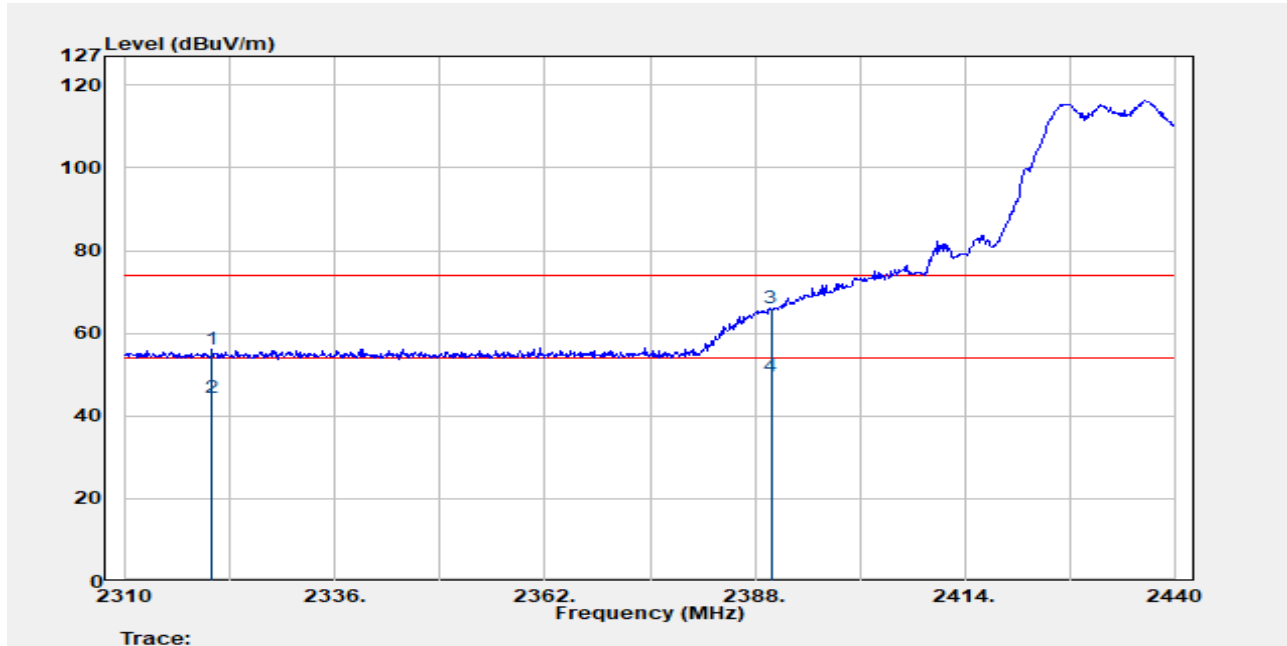
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2432 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick 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
2320.660	Peak	60.62	-4.43	56.19	74.00	-17.81
2320.660	Average	48.86	-4.43	44.43	54.00	-9.57
2390.000	Peak	70.34	-4.25	66.08	74.00	-7.92
2390.000	Average	53.95	-4.25	49.70	54.00	-4.30

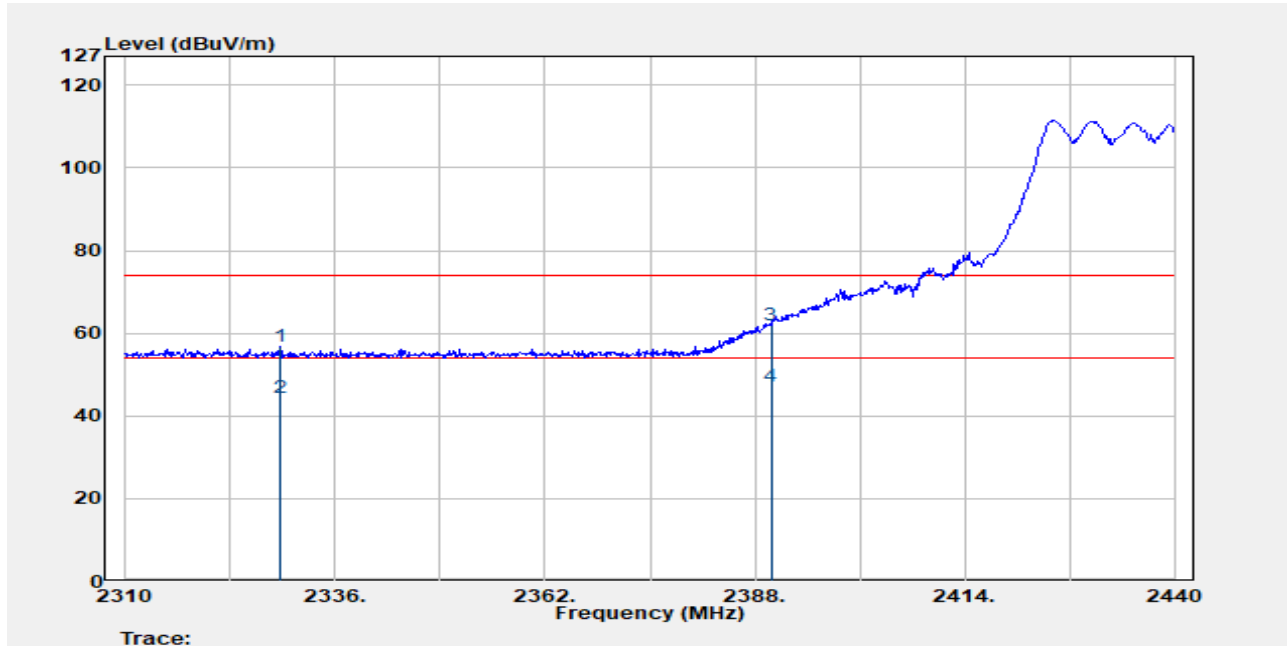
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 Test Frequency :2432 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2329.240	Peak	61.09	-4.46	56.63	74.00	-17.37
2329.240	Average	48.92	-4.46	44.46	54.00	-9.54
2390.000	Peak	66.19	-4.25	61.94	74.00	-12.06
2390.000	Average	51.39	-4.25	47.14	54.00	-6.86

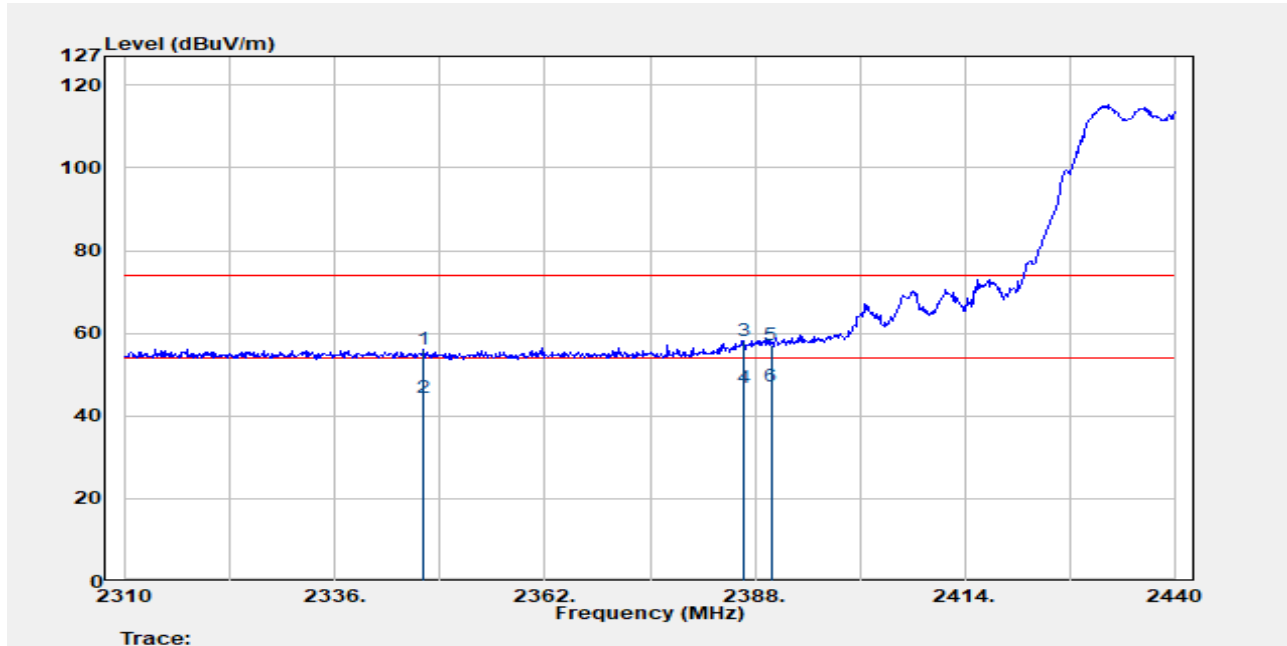
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Report Number :TERF2305001081ER
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Bandedge
 EUT Pol :E1 Plane

Test Site :SAC 3
 Test Date :2023-05-05
 Temp./Humi. :25.7/55
 Antenna Pol. :Vertical
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2346.920	Peak	60.72	-4.54	56.18	74.00	-17.82
2346.920	Average	48.95	-4.54	44.41	54.00	-9.59
2386.570	Peak	62.50	-4.28	58.22	74.00	-15.78
2386.570	Average	51.02	-4.28	46.74	54.00	-7.26
2390.000	Peak	61.24	-4.25	56.99	74.00	-17.01
2390.000	Average	51.48	-4.25	47.23	54.00	-6.77

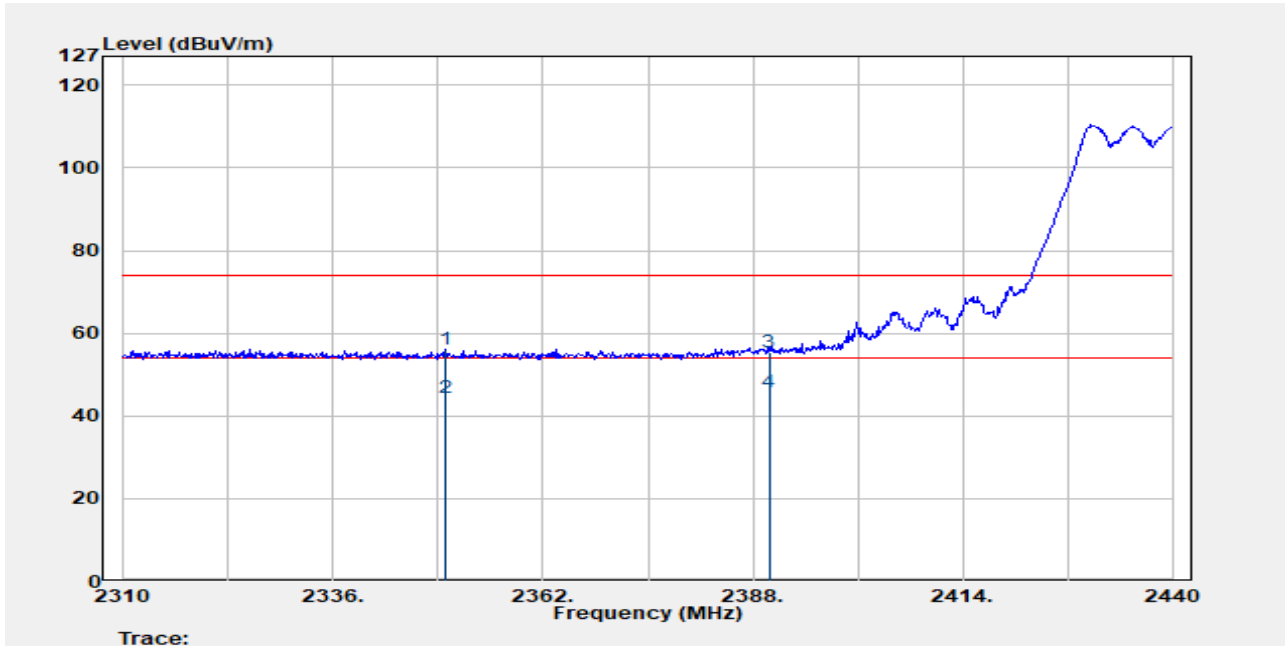
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Test Site :SAC 3
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 Temp./Humi. :25.7/55
 Antenna Pol. :Horizontal
 Engineer :Nick Lin



Freq. MHz	Detector Mode	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2349.910	Peak	60.55	-4.55	56.00	74.00	-18.00
2349.910	Average	48.89	-4.55	44.34	54.00	-9.66
2390.000	Peak	59.75	-4.25	55.49	74.00	-18.51
2390.000	Average	49.89	-4.25	45.64	54.00	-8.36

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