

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714, United States

Manufacturer: Qualcomm Technologies, Inc.
5775 Morehouse Drive, San Diego, CA 92121-1714, United States

Product Name: Tri-Radio LGA Module for IoT applications

Brand Name: Qualcomm

Model No.: QCC744M-0

Report Number: TERF2411003343E2

FCC ID J9C-QCC744M0

Date of EUT Received: Nov. 06, 2024

Date of Test: Nov. 07, 2024 ~ Nov. 29, 2024

Issue Date: Dec. 13, 2024

Approved By _____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2020 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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t (886-2) 2299-3279

f (886-2) 2298-0488

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2411003343E2	00	Original	Dec. 09, 2024	Yami Kuo	
TERF2411003343E2	01	Revise address	Dec. 13, 2024	Yami Kuo	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Tri-Radio LGA Module for IoT applications
Brand Name:	Qualcomm
Model No.:	QCC744M-0
HW SKU:	QCC744M-0U, QCC744M-0B, QCC748M-0U, QCC748M-0B
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	02B221846S00C8
Power Supply:	3.3Vdc
Test Software (Name/Version)	Qconn_RCT v1.8.9

1.2 RF Specification

WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Modulation Technology
			Peak	Avg.	
802.11b	2412~2472	13	23.87	21.68	DSSS
802.11g	2412~2472	13	26.61	20.79	OFDM
802.11n_HT20	2412~2472	13	26.60	20.49	OFDM
802.11n_HT40	2422~2462	9	24.66	15.95	OFDM
802.11ax_HE20	2412~2472	13	27.66	20.48	OFDMA
802.11ax_HE40	2422~2462	9	26.62	16.02	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n			
		1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax			
Data Rate:		802.11b: 1/2/5.5/11 Mbps			
		802.11g: 6/9/12/18/24/36/48/54 Mbps			
		802.11n_HT20: up to 72.2Mbps			
		802.11n_HT40: up to 150Mbps			
		802.11ax_HE20: up to 143.4Mbps			
		802.11ax_HE40: up to 286.8Mbps			

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1.3 HW SKU Difference Table:

HW SKU	Antenna Type	Impedance	Chip design
QCC744M-0U	3 types: PIFA, Monopole, Dipole	C21=1.86pF, C20=1.89pF	Does not support USB pinout
QCC744M-0B	1 type: PCB	C21=1.52pF, C20=2.05pF	Does not support USB pinout
QCC748M-0U	3 types: PIFA, Monopole, Dipole	C21=1.86pF, C20=1.89pF	Support USB pinout
QCC748M-0B	1 type: PCB	C21=1.52pF, C20=2.05pF	Support USB pinout

1.4 Antenna Designation

Antenna Type	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB Antenna	RFIQM0744010NB001	2.4GHz	2.52
PIFA Antenna	RFPCA441010EMABY01		3.19
Dipole Antenna	RFPCA521010EMABY01		3.37
Monopole Antenna	RFPCA501010EMABY01		3.12

Note:

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

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2020

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

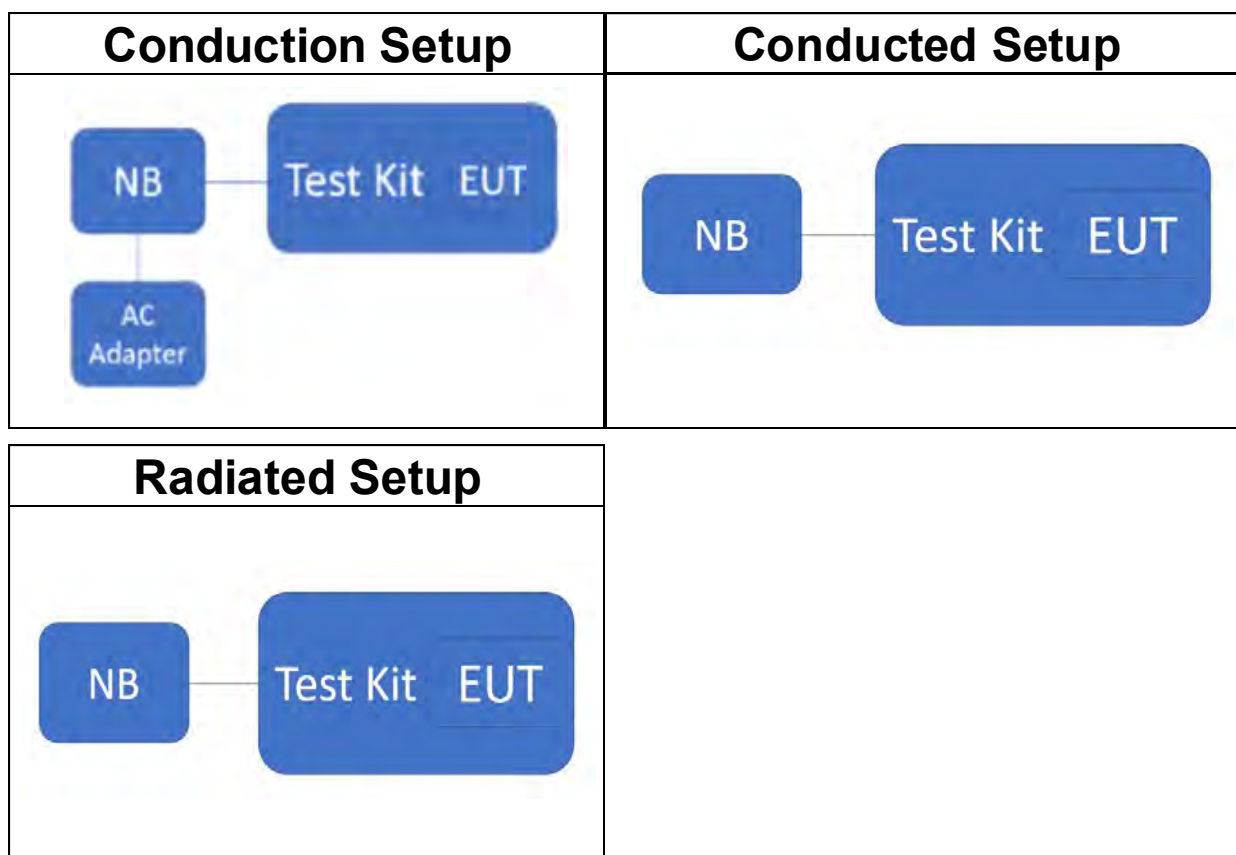
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	P0001293	N/A	N/A
Adapter	Lenovo	ADLX65YLC3D	N/A	N/A	N/A
QCC74X Module Development Kit Board	Walsin	QCC744-DVK	N/A	N/A	N/A
USB Cable	Fong Hua	USB-C18	128342	N/A	N/A
Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T14	P0003332	N/A	N/A
USB Cable	Mcdodo	CA-6390	N/A	N/A	N/A
QCC74X Module Development Kit Board	Walsin	QCC744-DVK	N/A	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	P0001293	N/A	N/A
QCC74X Module Development Kit Board	Walsin	QCC744-DVK	N/A	N/A	N/A
USB Cable	Fong Hua	USB-C18	128342	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
§15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.209 §15.247(d)	Radiated Spurious Emission	Compliant
§15.205	Restricted Bands	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

2400~2483.5 MHz			
20MHz		40MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457		
11	2462		
12	2467		
13	2472		

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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	Multiple Transmission Spatial
☒ 802.11 b	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☐ 2TX
☒ 802.11 g	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☐ 2TX
☒ 802.11 n	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☐ 2TX
☒ 802.11 ax	☒ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☒ 1TX	☐ 2TX

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

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1,6,11,12,13	DSSS	1	ch0
802.11g	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDM	6	ch0
802.11n_HT20	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDM	MCS0	ch0
802.11n_HT40	3 to 11	3,4,5,6,7,8,9,10,11	OFDM	MCS0	ch0
802.11ax_HE20	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDM	MCS0	ch0
802.11ax_HE40	3 to 11	3,4,5,6,7,8,9,10,11	OFDM	MCS0	ch0

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 13	1,2,3,4,5,6,7,8,9,10,11,12,13	OFDMA	242 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	ch0
802.11ax_HE40	3 to 11	3,4,5,6,7,8,9,10,11	OFDMA	484 242/61,242/62	MCS0	ch0

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TRANSMIT EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11g	1 to 13	6	OFDM	6		ch0
TRANSMIT EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11b	1 to 13	1,6,11,12,13	DSSS	1		ch0
802.11g	1 to 13	1,6,11,12,13	OFDM	6		ch0
802.11n_HT20	1 to 13	1,6,11,12,13	OFDM	MCS0		ch0
802.11n_HT40	3 to 11	3,6,9,10,11	OFDM	MCS0		ch0
802.11ax_HE20	1 to 13	1,6,11,12,13	OFDM	MCS0		ch0
802.11ax_HE40	3 to 11	3,6,9,10,11	OFDM	MCS0		ch0
TRANSMIT EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 13	1,6,11,12,13	OFDMA	26/0,26/8 52/37,52/40 106/53,106/54	MCS0	ch0
802.11ax_HE40	3 to 11	3,6,9,10,11	OFDMA	242/61,242/62	MCS0	ch0

NOTE:

1.The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

2.Radiated test was done with 50ohm terminator on antenna port

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
TEMPERATURE	N/A	EC-RFHY-05	N/A	05/22/2024	05/21/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF19	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF155	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF155	11/14/2024	11/13/2025
Power Meter	Anritsu	ML2496A	1804002	04/26/2024	04/25/2025
Power Sensor	Anritsu	MA2411B	1726105	04/26/2024	04/25/2025
Power Sensor	Anritsu	MA2411B	1726106	04/26/2024	04/25/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/25/2024	06/24/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Band Rejection Filter	Micro-Tronics	G008	RF205	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/14/2024	11/13/2025
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/14/2024	11/13/2025
Highpass Filter	R&S	F13 HPF 3GHz	RF175	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/28/2023	12/27/2024
Lowpass Filter	Woken	EWI-56-0019	RF173	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/03/2024	04/02/2025
SMA Termination	RF Microwave WOKEN	WTER-18S2	N/A	N/A	N/A
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

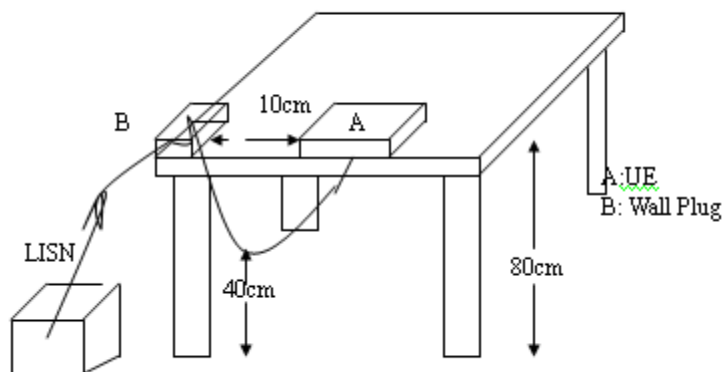
Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2020.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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7.4 Measurement Procedure

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

7.5 Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2411003343E2

Test Site :Conduction C

Test Mode :802.11b

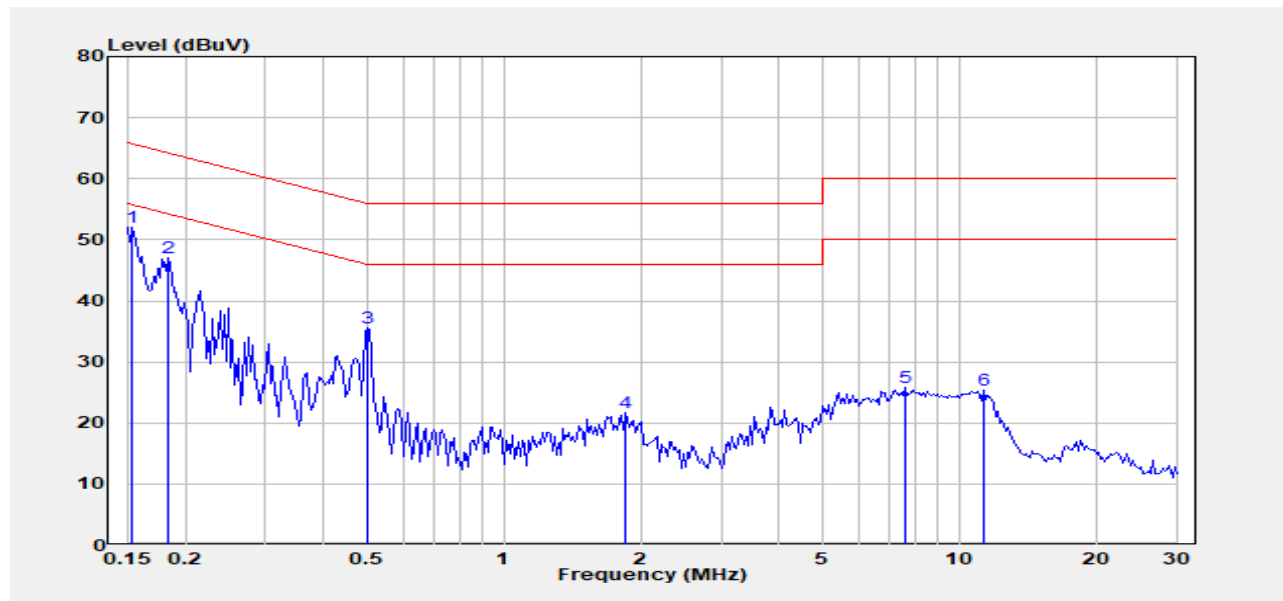
Test Date :2024-11-18

Power :120V/60Hz

Temp./Humi. :21.5°C/62%

Probe :L1

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.153	Peak	41.35	10.65	52.00	65.82	-13.82
0.183	Peak	36.31	10.65	46.96	64.33	-17.37
0.502	Peak	24.96	10.62	35.58	56.00	-20.42
1.848	Peak	10.85	10.76	21.62	56.00	-34.38
7.646	Peak	14.74	10.96	25.69	60.00	-34.31
11.317	Peak	14.32	11.00	25.32	60.00	-34.68

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Report Number :TERF2411003343E2

Test Site :Conduction C

Test Mode :802.11b

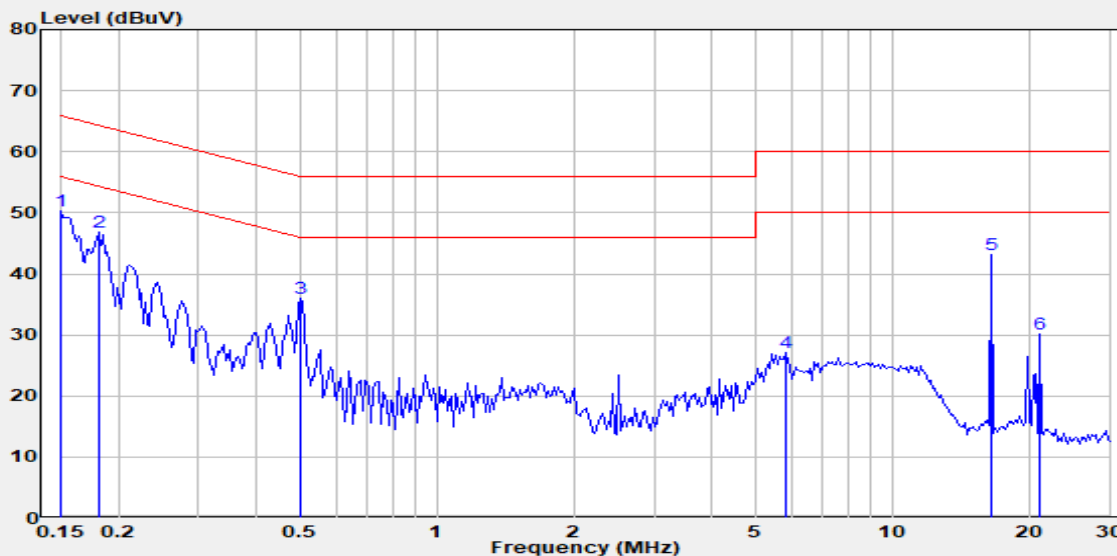
Test Date :2024-11-18

Power :120V/60Hz

Temp./Humi. :21.5°C/62%

Probe :N

Engineer :Pony Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.150	Peak	39.70	10.66	50.36	66.00	-15.64
0.182	Peak	36.11	10.65	46.76	64.42	-17.66
0.502	Peak	25.31	10.60	35.91	56.00	-20.09
5.867	Peak	16.16	10.94	27.10	60.00	-32.90
16.573	Peak	32.10	11.10	43.20	60.00	-16.80
21.147	Peak	19.05	11.19	30.24	60.00	-29.76

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle

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

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

8.1.2 FCC

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

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

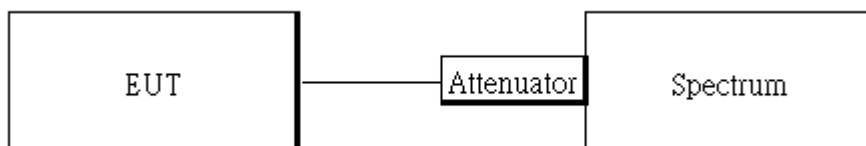
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

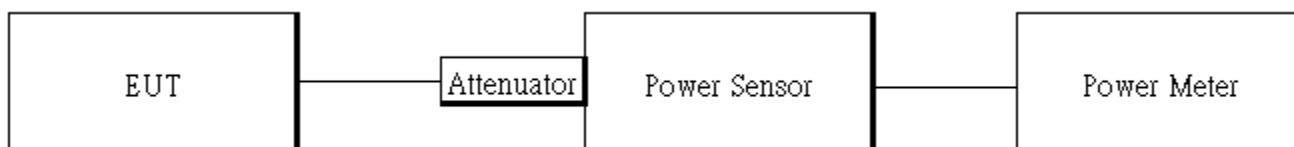
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



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8.3 Measurement Procedure

8.3.1 Duty Cycle:

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

8.3.2 Output Power

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

Power Meter:

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

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

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

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8.4 Measurement Result

8.4.1 Duty Cycle:

Mode		Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)
802.11b		99.21	0.03	1.00
802.11g		98.44	0.07	1.98
802.11n_20		98.46	0.07	1.94
802.11n_40		97.10	0.13	3.68
Mode	RU Config	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)
802.11ax_20	Full	99.70	0.01	0.26
	26 RU	97.56	0.11	0.23
	52 RU	98.09	0.08	0.19
	106 RU	97.65	0.10	0.23
	242	96.13	0.17	0.39
802.11ax_40	Full	99.54	0.02	0.51
	242 RU	96.09	0.17	0.39
	484	91.75	0.37	0.87

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8.4.2 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



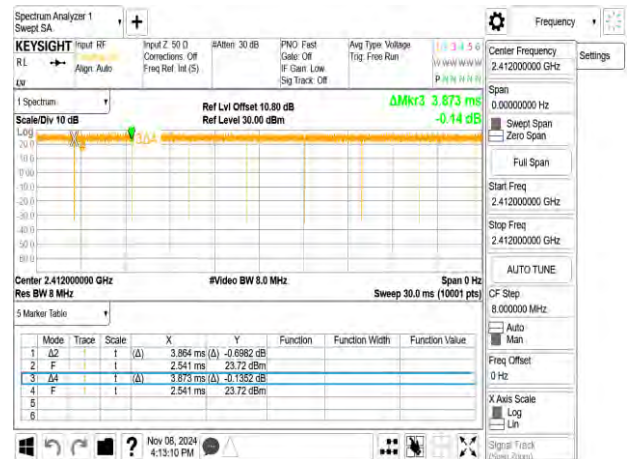
802.11n_40MHz_Chain0_2422MHz



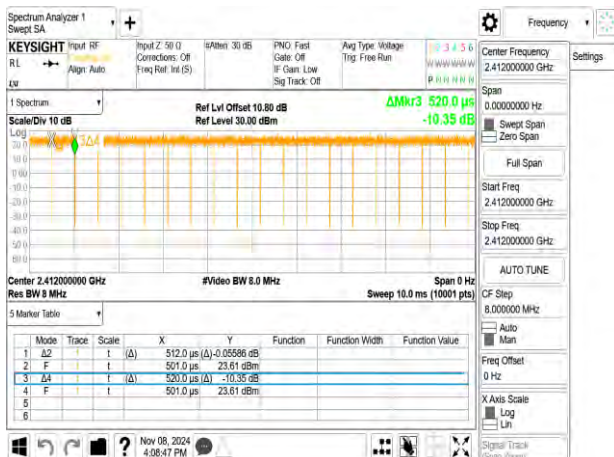
802.11g_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz_RU26_0



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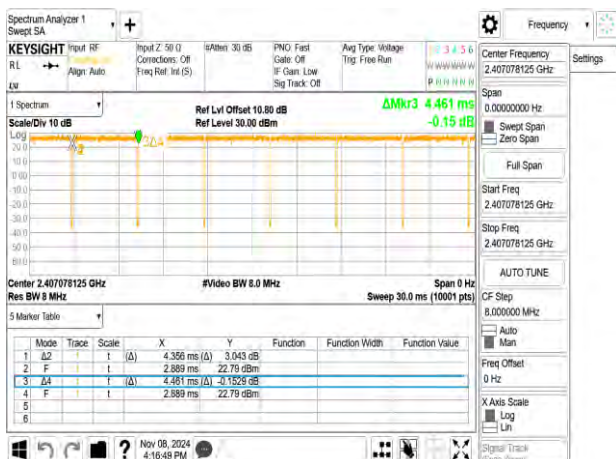
802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_40MHz_Chain0_2422MHz



802.11ax_20MHz_Chain0_2412MHz_RU106_53



802.11ax_40MHz_Chain0_2422MHz_RU242_61



802.11ax_20MHz_Chain0_2412MHz_RU242



802.11ax_40MHz_Chain0_2422MHz_RU484



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8.4.3 Output Power

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	22	220.29	23.43	30.00	PASS
6	2437	1	22	243.78	23.87	30.00	PASS
11	2462	1	22	225.94	23.54	30.00	PASS
12	2467	1	15	48.64	16.87	30.00	PASS
13	2472	1	10	15.63	11.94	30.00	PASS
802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	22	129.55	21.12	30.00	PASS
6	2437	1	22	147.38	21.68	30.00	PASS
11	2462	1	22	134.10	21.27	30.00	PASS
12	2467	1	15	28.74	14.58	30.00	PASS
13	2472	1	10	9.26	9.66	30.00	PASS

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802.11g Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	299.92	24.77	30.00	PASS
2	2417	6	18	368.13	25.66	30.00	PASS
3	2422	6	19	398.11	26.00	30.00	PASS
4	2427	6	20	419.76	26.23	30.00	PASS
5	2432	6	21	438.53	26.42	30.00	PASS
6	2437	6	22	458.14	26.61	30.00	PASS
7	2442	6	21	438.53	26.42	30.00	PASS
8	2447	6	20	414.95	26.18	30.00	PASS
9	2452	6	19	393.55	25.95	30.00	PASS
10	2457	6	18	363.08	25.60	30.00	PASS
11	2462	6	16	293.09	24.67	30.00	PASS
12	2467	6	13	177.42	22.49	30.00	PASS
13	2472	6	11	112.98	20.53	30.00	PASS

802.11g Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	33.48	15.25	30.00	PASS
2	2417	6	18	51.86	17.15	30.00	PASS
3	2422	6	19	64.84	18.12	30.00	PASS
4	2427	6	20	80.14	19.04	30.00	PASS
5	2432	6	21	99.27	19.97	30.00	PASS
6	2437	6	22	119.90	20.79	30.00	PASS
7	2442	6	21	99.50	19.98	30.00	PASS
8	2447	6	20	81.06	19.09	30.00	PASS
9	2452	6	19	66.65	18.24	30.00	PASS
10	2457	6	18	53.93	17.32	30.00	PASS
11	2462	6	16	34.66	15.40	30.00	PASS
12	2467	6	13	18.36	12.64	30.00	PASS
13	2472	6	11	11.88	10.75	30.00	PASS

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f (886-2) 2298-0488

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802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	333.43	25.23	30.00	PASS
2	2417	MCS0	17	360.58	25.57	30.00	PASS
3	2422	MCS0	19	410.20	26.13	30.00	PASS
4	2427	MCS0	20	428.55	26.32	30.00	PASS
5	2432	MCS0	21	443.61	26.47	30.00	PASS
6	2437	MCS0	22	457.09	26.60	30.00	PASS
7	2442	MCS0	21	437.52	26.41	30.00	PASS
8	2447	MCS0	20	419.76	26.23	30.00	PASS
9	2452	MCS0	19	401.79	26.04	30.00	PASS
10	2457	MCS0	18	377.57	25.77	30.00	PASS
11	2462	MCS0	16	325.09	25.12	30.00	PASS
12	2467	MCS0	13	210.86	23.24	30.00	PASS
13	2472	MCS0	11	136.14	21.34	30.00	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	32.79	15.16	30.00	PASS
2	2417	MCS0	17	40.62	16.09	30.00	PASS
3	2422	MCS0	19	63.35	18.02	30.00	PASS
4	2427	MCS0	20	78.12	18.93	30.00	PASS
5	2432	MCS0	21	96.99	19.87	30.00	PASS
6	2437	MCS0	22	111.88	20.49	30.00	PASS
7	2442	MCS0	21	96.33	19.84	30.00	PASS
8	2447	MCS0	20	78.66	18.96	30.00	PASS
9	2452	MCS0	19	64.53	18.10	30.00	PASS
10	2457	MCS0	18	52.33	17.19	30.00	PASS
11	2462	MCS0	16	33.71	15.28	30.00	PASS
12	2467	MCS0	13	17.85	12.52	30.00	PASS
13	2472	MCS0	11	11.58	10.64	30.00	PASS

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802.11n_HT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	165.58	22.19	30.00	PASS
4	2427	MCS0	15	203.70	23.09	30.00	PASS
5	2432	MCS0	16	257.63	24.11	30.00	PASS
6	2437	MCS0	17	292.42	24.66	30.00	PASS
8	2447	MCS0	16	246.60	23.92	30.00	PASS
9	2452	MCS0	15	216.27	23.35	30.00	PASS
10	2457	MCS0	14	171.40	22.34	30.00	PASS
11	2462	MCS0	13	133.05	21.24	30.00	PASS
802.11n_HT_40M Ch0							
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	14	20.50	13.12	30.00	PASS
4	2427	MCS0	15	25.75	14.11	30.00	PASS
5	2432	MCS0	16	32.05	15.06	30.00	PASS
6	2437	MCS0	17	39.34	15.95	30.00	PASS
8	2447	MCS0	16	32.42	15.11	30.00	PASS
9	2452	MCS0	15	26.35	14.21	30.00	PASS
10	2457	MCS0	14	21.08	13.24	30.00	PASS
11	2462	MCS0	13	16.74	12.24	30.00	PASS

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802.11ax_HE_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	257.04	24.10	30.00	PASS
			26/0	16	376.70	25.76	30.00	PASS
			52/37	16	386.37	25.87	30.00	PASS
			106/53	15	319.89	25.05	30.00	PASS
			242	15	334.97	25.25	30.00	PASS
2	2417	MCS0	full	17	334.97	25.25	30.00	PASS
			26/0	15	319.89	25.05	30.00	PASS
			52/37	15	413.05	26.16	30.00	PASS
			106/53	18	464.52	26.67	30.00	PASS
			242	17	435.51	26.39	30.00	PASS
3	2422	MCS0	full	18	368.98	25.67	30.00	PASS
			26/0	16	376.70	25.76	30.00	PASS
			52/37	17	414.95	26.18	30.00	PASS
			106/53	19	479.73	26.81	30.00	PASS
			242	18	470.98	26.73	30.00	PASS
4	2427	MCS0	full	19	399.94	26.02	30.00	PASS
			26/0	15	324.34	25.11	30.00	PASS
			52/37	17	408.32	26.11	30.00	PASS
			106/53	20	501.19	27.00	30.00	PASS
			242	20	529.66	27.24	30.00	PASS
5	2432	MCS0	full	20	420.73	26.24	30.00	PASS
			26/0	15	325.09	25.12	30.00	PASS
			52/37	21	527.23	27.22	30.00	PASS
			106/53	22	530.88	27.25	30.00	PASS
			242	21	540.75	27.33	30.00	PASS
6	2437	MCS0	full	21	437.52	26.41	30.00	PASS
			26/0	22	564.94	27.52	30.00	PASS
			52/37	22	583.45	27.66	30.00	PASS
			106/53	22	557.19	27.46	30.00	PASS
			26/8	22	540.75	27.33	30.00	PASS
			52/40	22	563.64	27.51	30.00	PASS
			106/54	21	576.77	27.61	30.00	PASS
			242	21	548.28	27.39	30.00	PASS
7	2442	MCS0	full	20	416.87	26.20	30.00	PASS
			26/8	15	327.34	25.15	30.00	PASS
			52/40	19	445.66	26.49	30.00	PASS
			106/54	21	545.76	27.37	30.00	PASS
			242	21	544.50	27.36	30.00	PASS
8	2447	MCS0	full	19	385.48	25.86	30.00	PASS
			26/8	15	334.97	25.25	30.00	PASS
			52/40	16	365.59	25.63	30.00	PASS
			106/54	21	543.25	27.35	30.00	PASS
			242	20	521.19	27.17	30.00	PASS
9	2452	MCS0	full	18	358.92	25.55	30.00	PASS
			26/8	15	327.34	25.15	30.00	PASS
			52/40	16	368.98	25.67	30.00	PASS
			106/54	19	486.41	26.87	30.00	PASS
			242	19	490.91	26.91	30.00	PASS
10	2457	MCS0	full	17	322.11	25.08	30.00	PASS
			26/8	14	276.06	24.41	30.00	PASS
			52/40	16	363.92	25.61	30.00	PASS
			106/54	17	415.91	26.19	30.00	PASS
			242	18	469.89	26.72	30.00	PASS
11	2462	MCS0	full	15	258.23	24.12	30.00	PASS
			26/8	15	310.46	24.92	30.00	PASS
			52/40	15	321.37	25.07	30.00	PASS
			106/54	16	377.57	25.77	30.00	PASS
			242	16	398.11	26.00	30.00	PASS
12	2467	MCS0	full	13	179.06	22.53	30.00	PASS
			26/8	10	108.89	20.37	30.00	PASS
			52/40	11	135.52	21.32	30.00	PASS
			106/54	10	111.69	20.48	30.00	PASS
			242	10	114.29	20.58	30.00	PASS
13	2472	MCS0	full	11	109.90	20.41	30.00	PASS
			26/8	6	43.15	16.35	30.00	PASS
			52/40	6	43.25	16.36	30.00	PASS
			106/54	6	43.25	16.36	30.00	PASS
			242	6	44.16	16.45	30.00	PASS

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802.11ax_HE_20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	26.08	14.16	30.00	PASS
			26/0	16	28.89	14.61	30.00	PASS
			52/37	16	30.30	14.81	30.00	PASS
			106/53	15	25.37	14.04	30.00	PASS
			242	15	26.49	14.23	30.00	PASS
2	2417	MCS0	full	17	40.21	16.04	30.00	PASS
			26/0	15	23.27	13.67	30.00	PASS
			52/37	15	36.51	15.62	30.00	PASS
			106/53	18	49.13	16.91	30.00	PASS
			242	17	41.70	16.20	30.00	PASS
3	2422	MCS0	full	18	51.09	17.08	30.00	PASS
			26/0	16	29.49	14.70	30.00	PASS
			52/37	17	37.70	15.76	30.00	PASS
			106/53	19	62.56	17.96	30.00	PASS
			242	18	54.72	17.38	30.00	PASS
4	2427	MCS0	full	19	64.17	18.07	30.00	PASS
			26/0	15	24.08	13.82	30.00	PASS
			52/37	17	38.32	15.83	30.00	PASS
			106/53	20	79.13	18.98	30.00	PASS
			242	20	83.59	19.22	30.00	PASS
5	2432	MCS0	full	20	78.76	18.96	30.00	PASS
			26/0	15	24.36	13.87	30.00	PASS
			52/37	21	94.71	19.76	30.00	PASS
			106/53	22	110.24	20.42	30.00	PASS
			242	21	107.93	20.33	30.00	PASS
6	2437	MCS0	full	21	97.34	19.88	30.00	PASS
			26/0	22	110.59	20.44	30.00	PASS
			52/37	22	111.78	20.48	30.00	PASS
			106/53	22	104.79	20.20	30.00	PASS
			26/8	22	110.34	20.43	30.00	PASS
			52/40	22	109.49	20.39	30.00	PASS
			106/54	21	104.79	20.20	30.00	PASS
			242	21	105.23	20.22	30.00	PASS
			full	20	79.12	18.98	30.00	PASS
7	2442	MCS0	26/8	15	25.69	14.10	30.00	PASS
			52/40	19	63.44	18.02	30.00	PASS
			106/54	21	103.59	20.15	30.00	PASS
			242	21	108.43	20.35	30.00	PASS
			full	19	65.36	18.15	30.00	PASS
8	2447	MCS0	26/8	15	25.87	14.13	30.00	PASS
			52/40	16	33.14	15.20	30.00	PASS
			106/54	21	103.35	20.14	30.00	PASS
			242	20	84.75	19.28	30.00	PASS
			full	18	53.00	17.24	30.00	PASS
9	2452	MCS0	26/8	15	25.81	14.12	30.00	PASS
			52/40	16	33.22	15.21	30.00	PASS
			106/54	19	67.35	18.28	30.00	PASS
			242	19	68.89	18.38	30.00	PASS
			full	17	42.39	16.27	30.00	PASS
10	2457	MCS0	26/8	14	20.40	13.10	30.00	PASS
			52/40	16	33.91	15.30	30.00	PASS
			106/54	17	42.69	16.30	30.00	PASS
			242	18	56.25	17.50	30.00	PASS
			full	15	27.12	14.33	30.00	PASS
11	2462	MCS0	26/8	15	24.59	13.91	30.00	PASS
			52/40	15	25.20	14.01	30.00	PASS
			106/54	16	33.06	15.19	30.00	PASS
			242	16	34.53	15.38	30.00	PASS
			full	13	17.67	12.47	30.00	PASS
12	2467	MCS0	26/8	10	8.05	9.06	30.00	PASS
			52/40	11	10.46	10.19	30.00	PASS
			106/54	10	8.74	9.41	30.00	PASS
			242	10	8.92	9.50	30.00	PASS
			full	11	11.44	10.58	30.00	PASS
13	2472	MCS0	26/8	6	3.15	4.99	30.00	PASS
			52/40	6	3.23	5.09	30.00	PASS
			106/54	6	3.43	5.35	30.00	PASS
			242	6	3.57	5.53	30.00	PASS
			full	11	11.44	10.58	30.00	PASS

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802.11ax_HE_40M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15	287.08	24.58	30.00	PASS
			242/61	15	386.37	25.87	30.00	PASS
			484	13	374.11	25.73	30.00	PASS
4	2427	MCS0	full	16	314.05	24.97	30.00	PASS
			242/61	15	378.44	25.78	30.00	PASS
			484	14	411.15	26.14	30.00	PASS
5	2432	MCS0	full	17	346.74	25.40	30.00	PASS
			242/61	15	385.48	25.86	30.00	PASS
			484	16	459.20	26.62	30.00	PASS
6	2437	MCS0	full	17	345.14	25.38	30.00	PASS
			242/61	15	389.94	25.91	30.00	PASS
			242/62	15	403.65	26.06	30.00	PASS
			484	15	444.63	26.48	30.00	PASS
7	2442	MCS0	full	16	303.39	24.82	30.00	PASS
			242/62	14	347.54	25.41	30.00	PASS
			484	13	368.13	25.66	30.00	PASS
8	2447	MCS0	full	15	281.84	24.50	30.00	PASS
			242/62	14	347.54	25.41	30.00	PASS
			484	12	323.59	25.10	30.00	PASS
9	2452	MCS0	full	15	283.14	24.52	30.00	PASS
			242/62	14	350.75	25.45	30.00	PASS
			484	12	324.34	25.11	30.00	PASS
10	2457	MCS0	full	14	242.10	23.84	30.00	PASS
			242/62	13	304.09	24.83	30.00	PASS
			484	11	271.02	24.33	30.00	PASS
11	2462	MCS0	full	12	169.82	22.30	30.00	PASS
			242/62	6	55.72	17.46	30.00	PASS
			484	9	163.31	22.13	30.00	PASS
802.11ax_HE_40M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15	25.47	14.06	30.00	PASS
			242/61	15	25.20	14.01	30.00	PASS
			484	13	16.76	12.24	30.00	PASS
4	2427	MCS0	full	16	31.92	15.04	30.00	PASS
			242/61	15	26.02	14.15	30.00	PASS
			484	14	21.06	13.23	30.00	PASS
5	2432	MCS0	full	17	39.72	15.99	30.00	PASS
			242/61	15	25.14	14.00	30.00	PASS
			484	16	33.76	15.28	30.00	PASS
6	2437	MCS0	full	17	39.99	16.02	30.00	PASS
			242/61	15	26.20	14.18	30.00	PASS
			242/62	15	27.12	14.33	30.00	PASS
			484	15	27.19	14.34	30.00	PASS
7	2442	MCS0	full	16	32.89	15.17	30.00	PASS
			242/62	14	21.00	13.22	30.00	PASS
			484	13	17.51	12.43	30.00	PASS
8	2447	MCS0	full	15	26.55	14.24	30.00	PASS
			242/62	14	21.69	13.36	30.00	PASS
			484	12	13.29	11.23	30.00	PASS
9	2452	MCS0	full	15	26.55	14.24	30.00	PASS
			242/62	14	21.30	13.28	30.00	PASS
			484	12	14.17	11.51	30.00	PASS
10	2457	MCS0	full	14	21.33	13.29	30.00	PASS
			242/62	13	17.07	12.32	30.00	PASS
			484	11	11.26	10.51	30.00	PASS
11	2462	MCS0	full	12	12.82	11.08	30.00	PASS
			242/62	6	3.34	5.23	30.00	PASS
			484	9	6.89	8.38	30.00	PASS

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

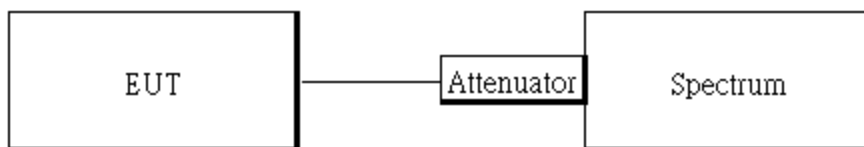
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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

9.3.1 6dB BW measurements

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

9.3.2 99% BW measurements

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

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9.4 Measurement Result:

9.4.1 6dB BW measurements

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9155.00	≥ 500	PASS
2437	9179.00	≥ 500	PASS
2462	9161.00	≥ 500	PASS
2467	9183.00	≥ 500	PASS
2472	9182.00	≥ 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16330.00	≥ 500	PASS
2437	16100.00	≥ 500	PASS
2462	16310.00	≥ 500	PASS
2467	16300.00	≥ 500	PASS
2472	16130.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16820.00	≥ 500	PASS
2437	16790.00	≥ 500	PASS
2462	16810.00	≥ 500	PASS
2467	16810.00	≥ 500	PASS
2472	16820.00	≥ 500	PASS

802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35210.00	≥ 500	PASS
2437	35210.00	≥ 500	PASS
2452	35210.00	≥ 500	PASS
2457	35210.00	≥ 500	PASS
2462	35210.00	≥ 500	PASS

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802.11ax_HE_20M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18850.00	≥ 500	PASS
2437	full	18900.00	≥ 500	PASS
2462	full	18940.00	≥ 500	PASS
2467	full	18870.00	≥ 500	PASS
2472	full	18900.00	≥ 500	PASS

802.11ax_HE_40M Ch0

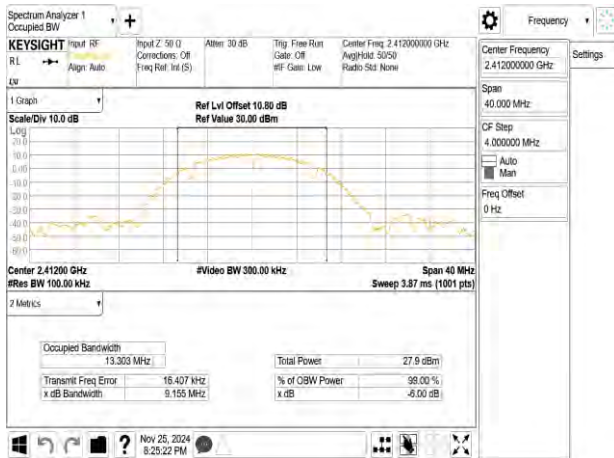
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37850.00	≥ 500	PASS
2437	full	37930.00	≥ 500	PASS
2452	full	37820.00	≥ 500	PASS
2457	full	37560.00	≥ 500	PASS
2462	full	37730.00	≥ 500	PASS

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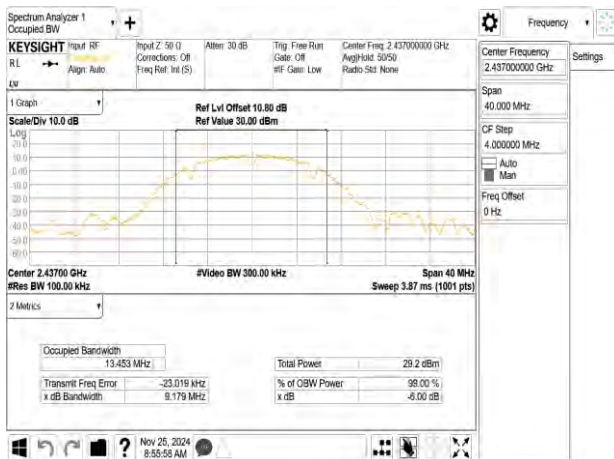
802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2467MHz



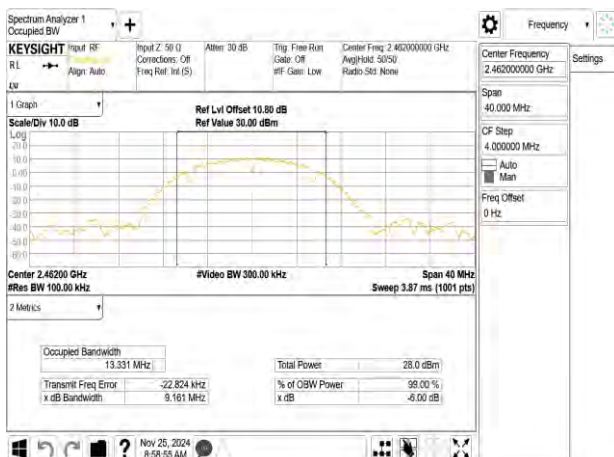
802.11b_20MHz_Chain0_2437MHz



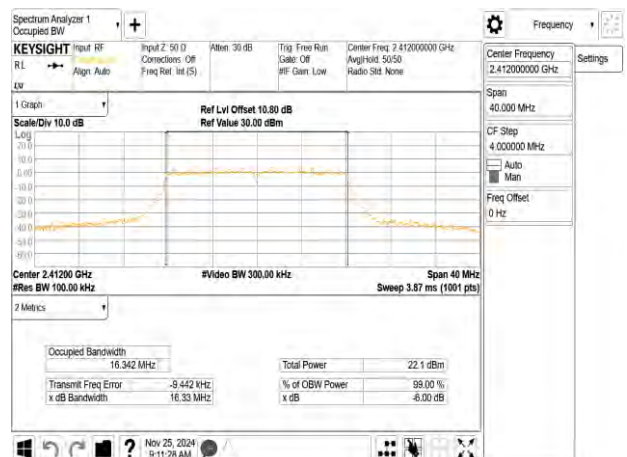
802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz

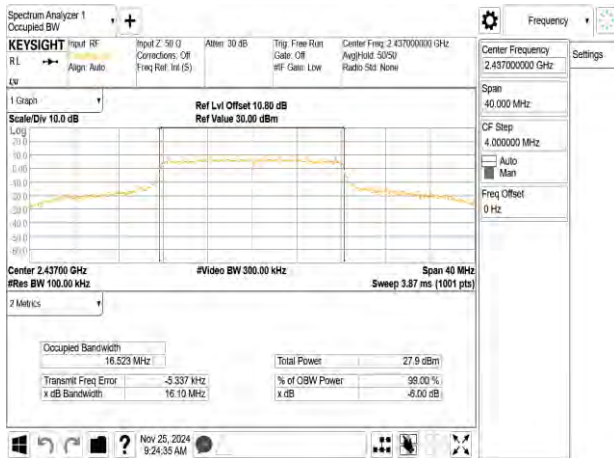


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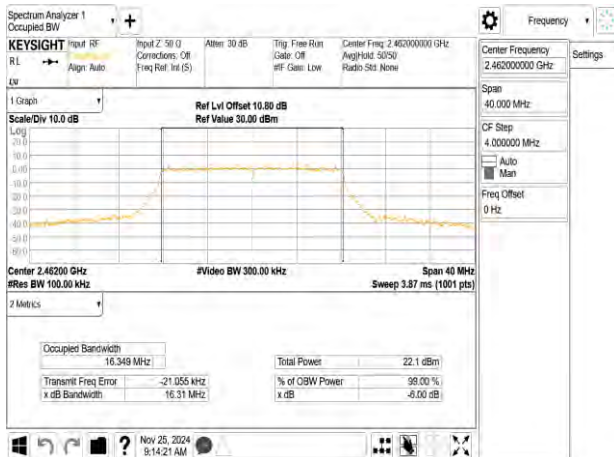
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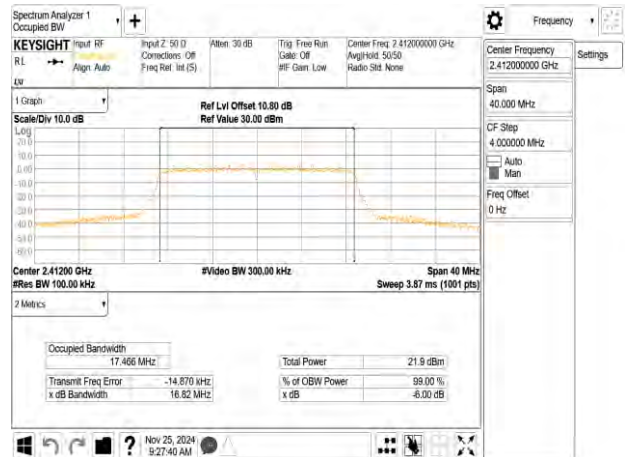
802.11g_20MHz_Chain0_2472MHz



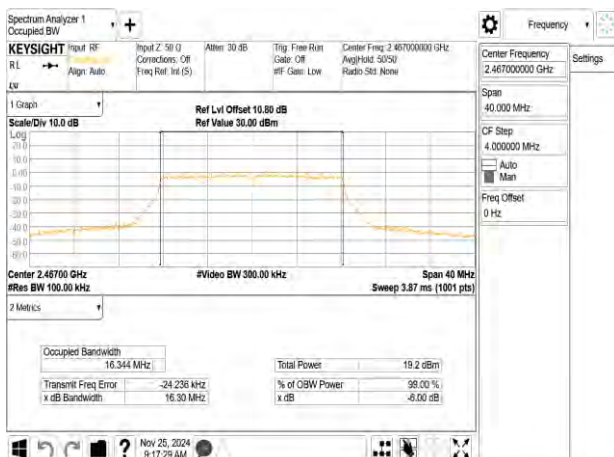
802.11g_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2437MHz



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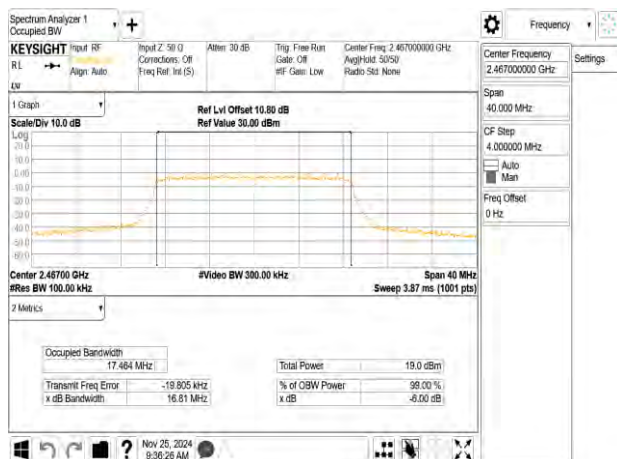
802.11n_20MHz_Chain0_2462MHz



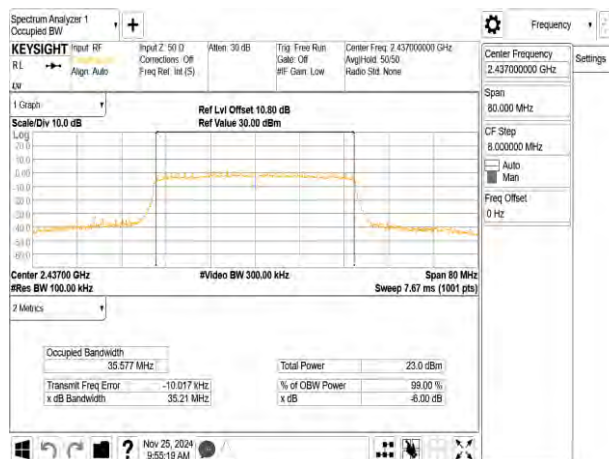
802.11n_40MHz_Chain0_2422MHz



802.11n_20MHz_Chain0_2467MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2472MHz



802.11n_40MHz_Chain0_2452MHz

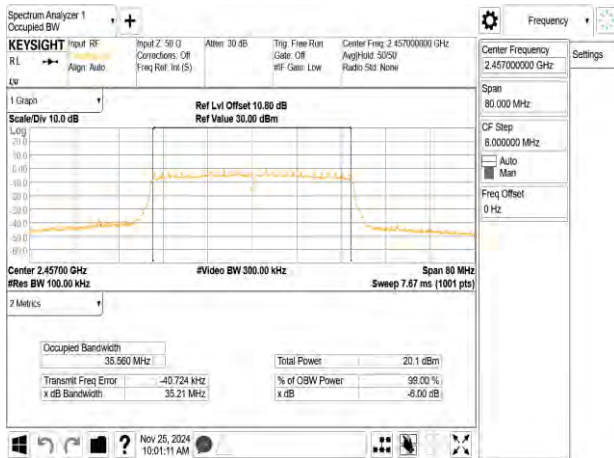


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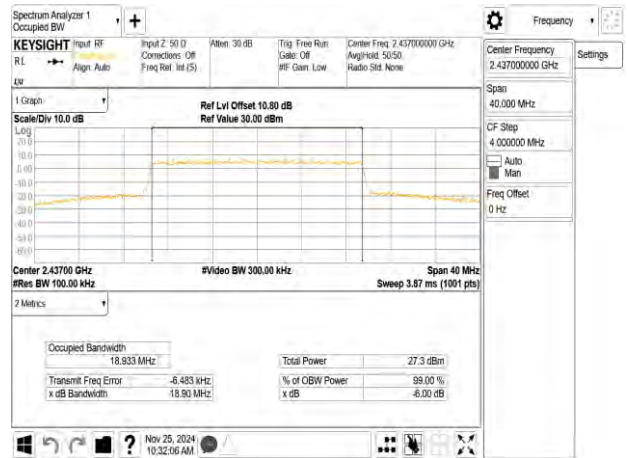
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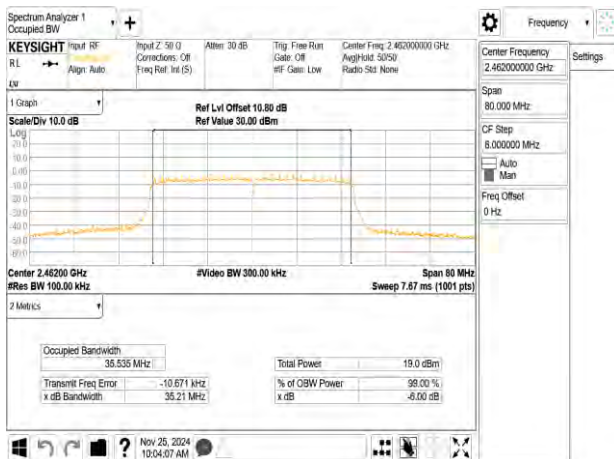
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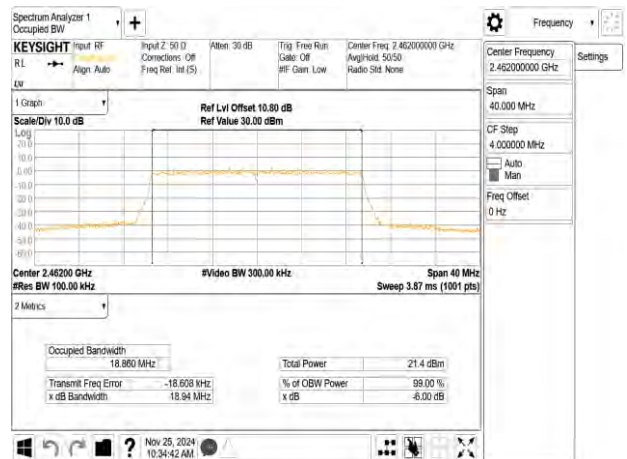
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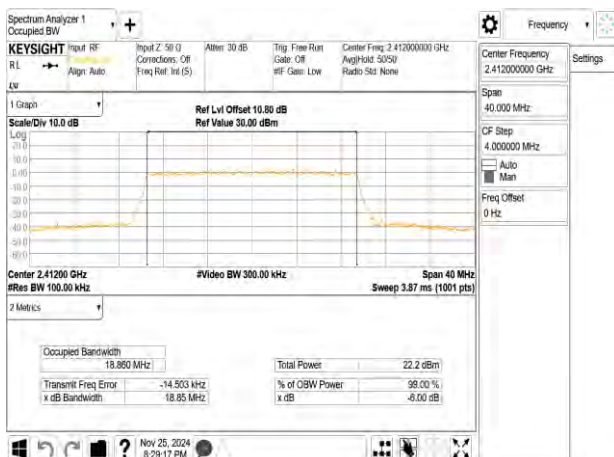
802.11n_40MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2467MHz



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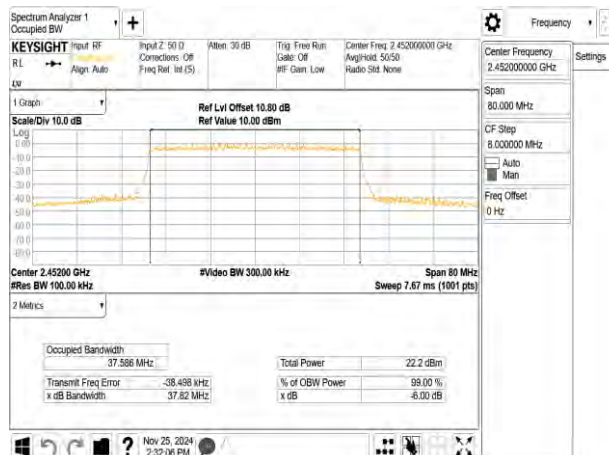
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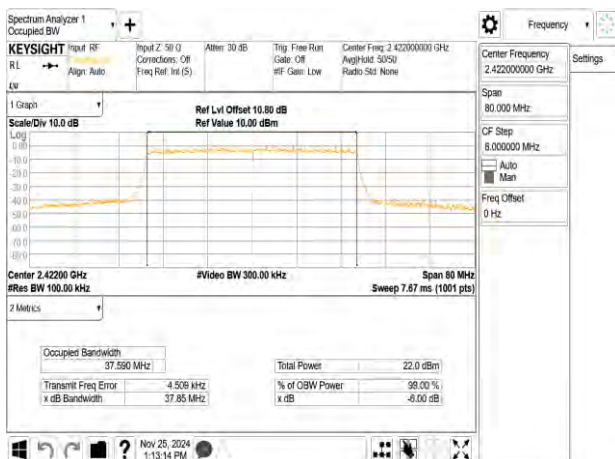
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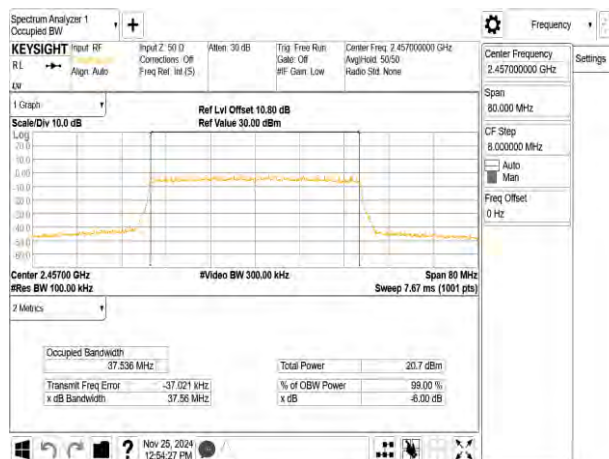
802.11ax_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2422MHz



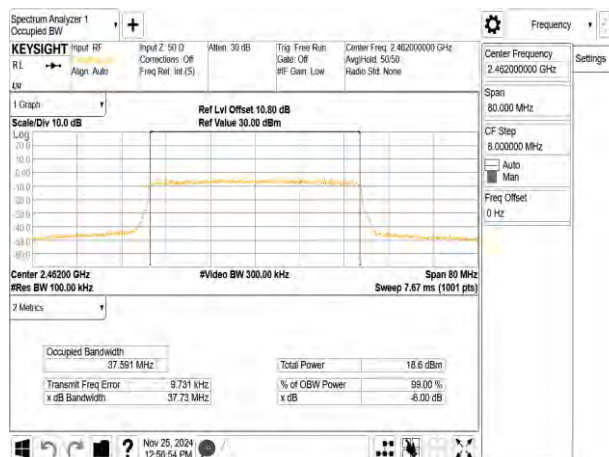
802.11ax_40MHz_Chain0_2457MHz



802.11ax_40MHz_Chain0_2437MHz



802.11ax_40MHz_Chain0_2462MHz



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9.4.2 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	13.294
2437	13.455
2462	13.318
2467	13.375
2472	13.374

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.518
2437	16.982
2462	16.517
2467	16.515
2472	16.518

802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.503
2437	17.872
2462	17.51
2467	17.503
2472	17.5

802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)
2422	35.709
2437	35.698
2452	35.711
2457	35.681
2462	35.695

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802.11ax_HE20M Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2412	full	18.9
2437	full	19.007
2462	full	18.892
2467	full	18.905
2472	full	18.896

802.11ax_HE40M Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2422	full	37.714
2437	full	37.713
2452	full	37.723
2457	full	37.706
2462	full	37.733

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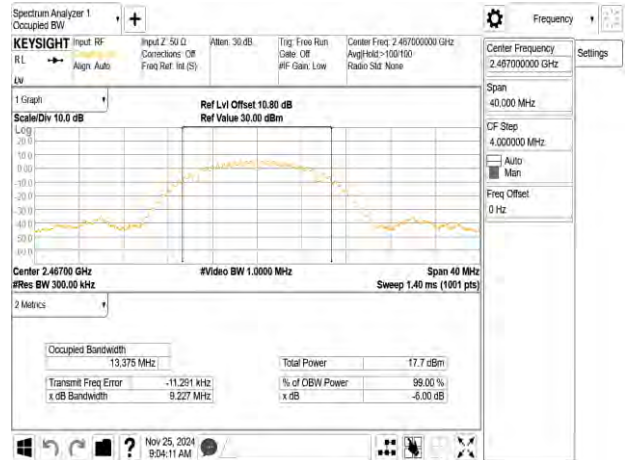
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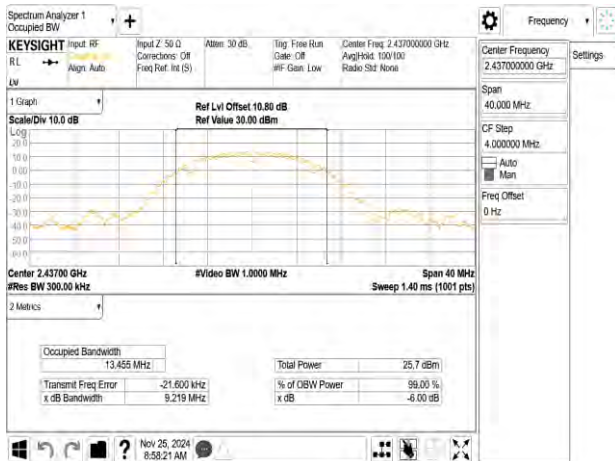
802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2467MHz



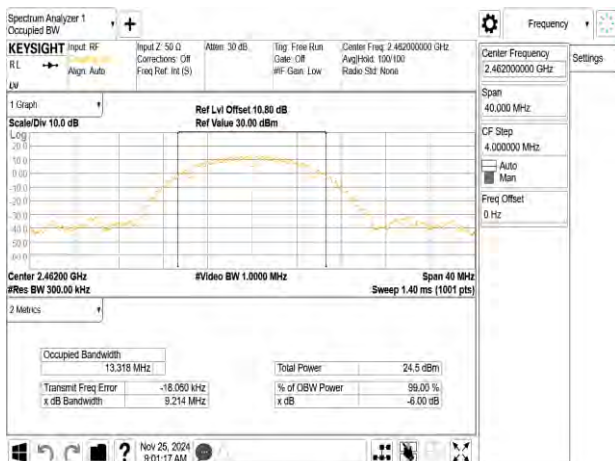
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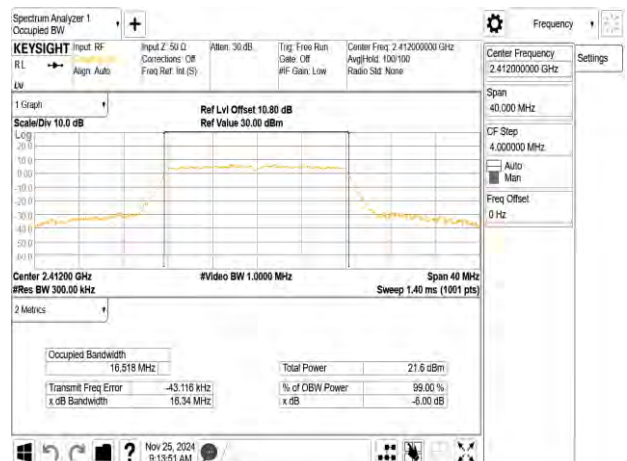
802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz

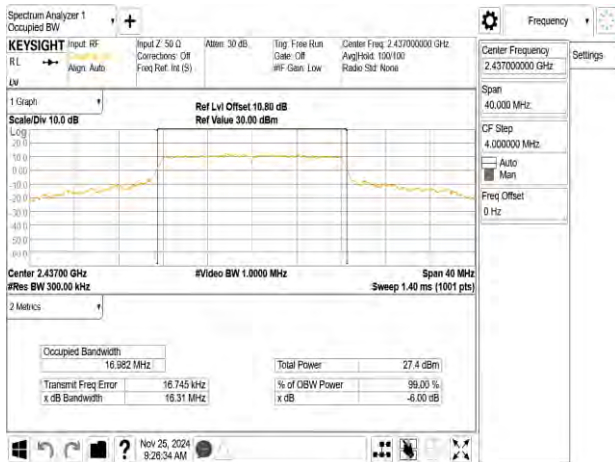


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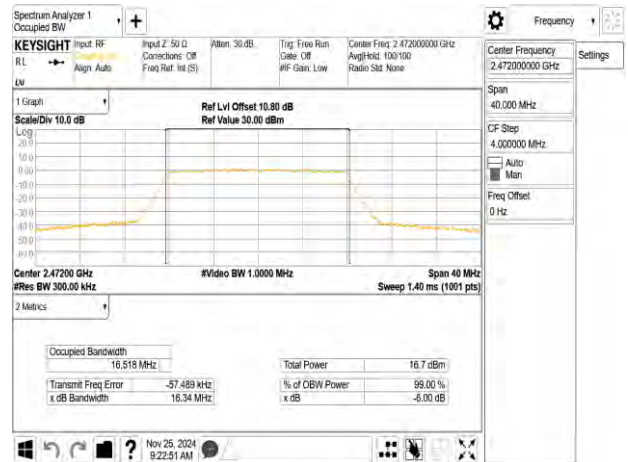
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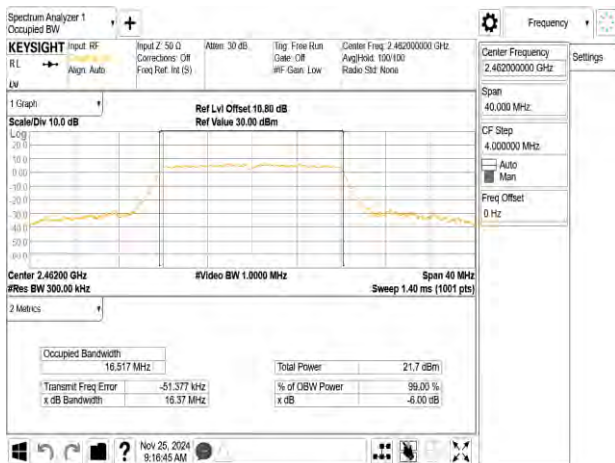
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802.11g_20MHz_Chain0_2472MHz



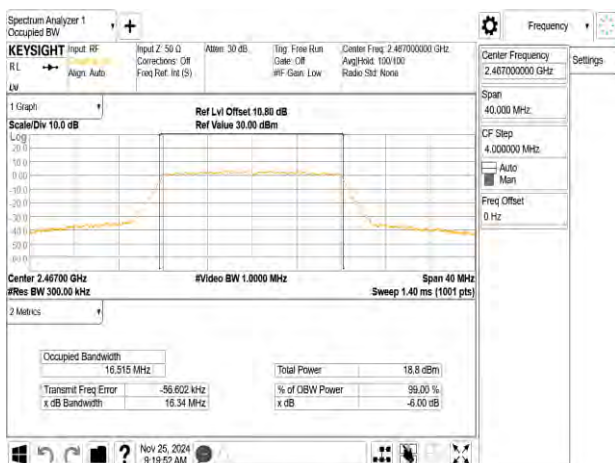
802.11g_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2437MHz



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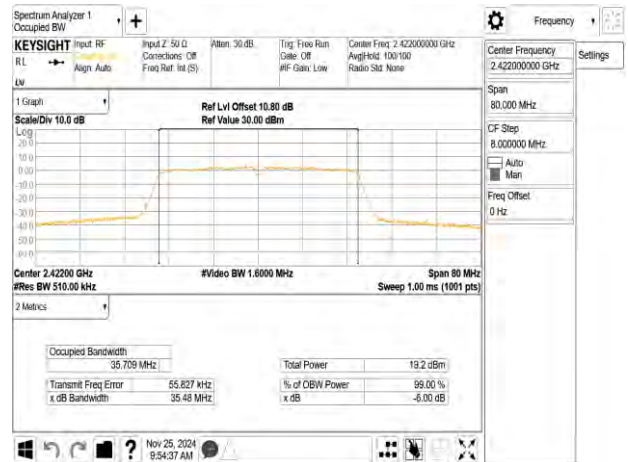
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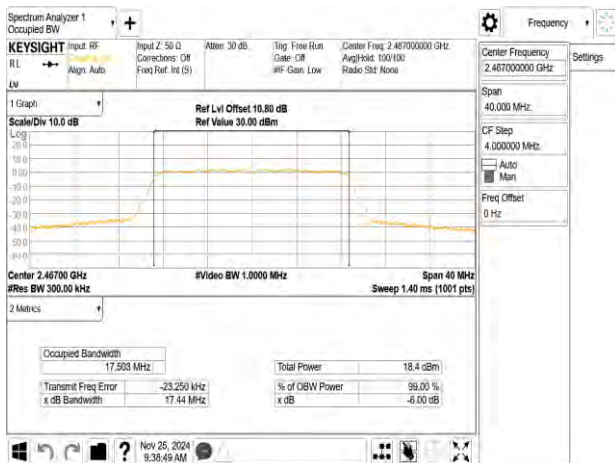
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802.11n_40MHz_Chain0_2422MHz



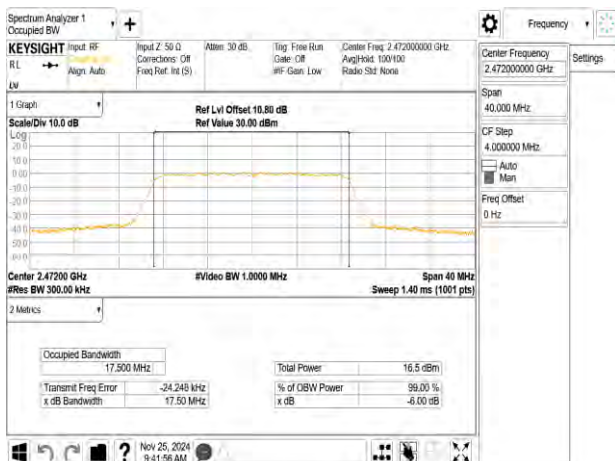
802.11n_20MHz_Chain0_2467MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2472MHz



802.11n_40MHz_Chain0_2452MHz

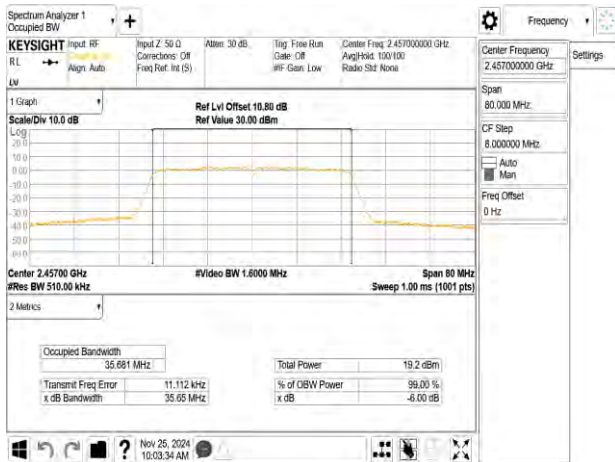


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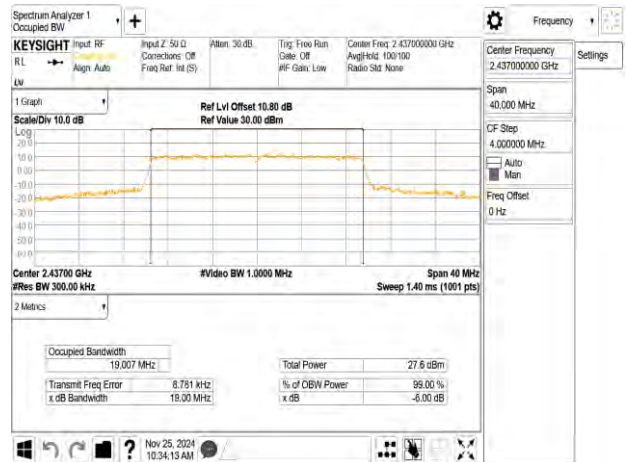
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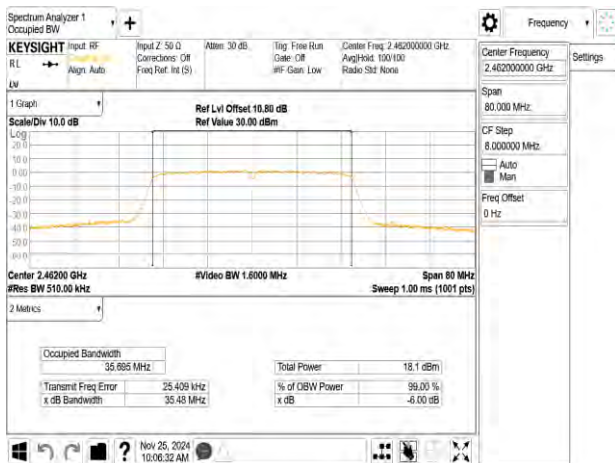
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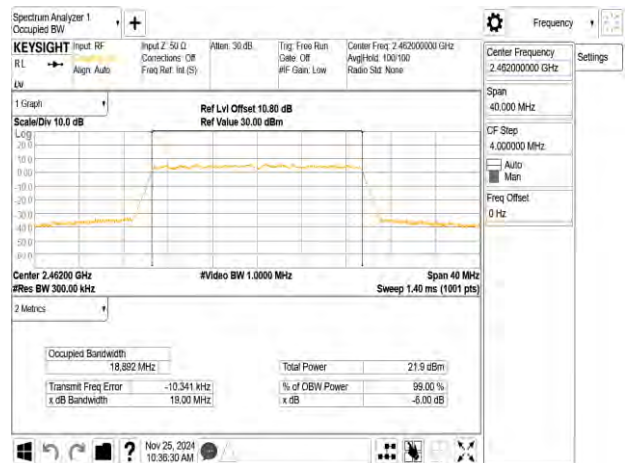
802.11ax_20MHz_Chain0_2437MHz



802.11n_40MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2467MHz



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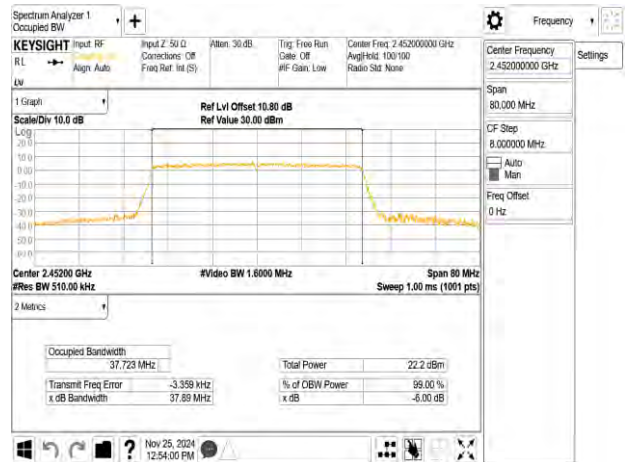
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802.11ax_20MHz_Chain0_2472MHz



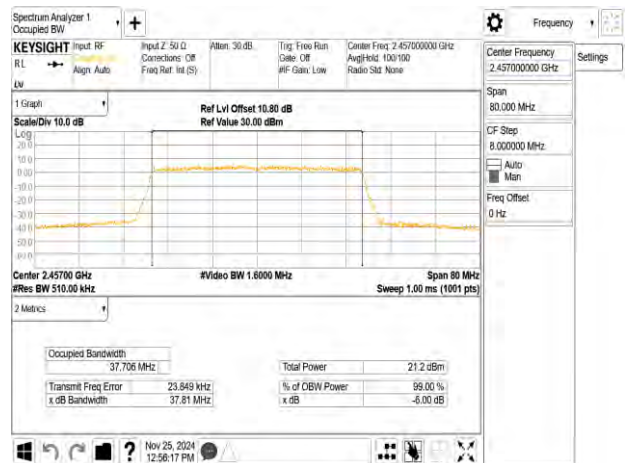
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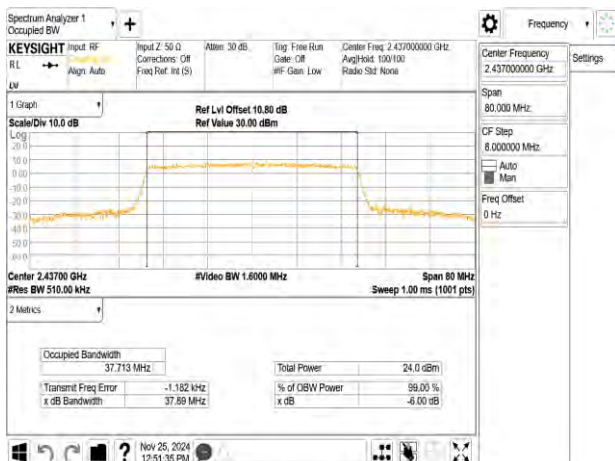
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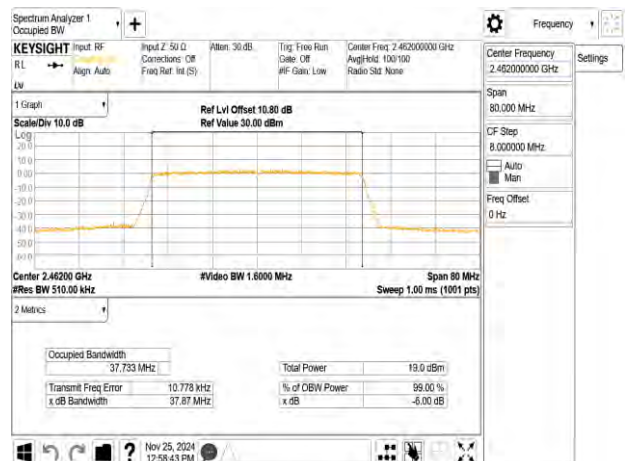
802.11ax_40MHz_Chain0_2457MHz



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802.11ax_40MHz_Chain0_2462MHz



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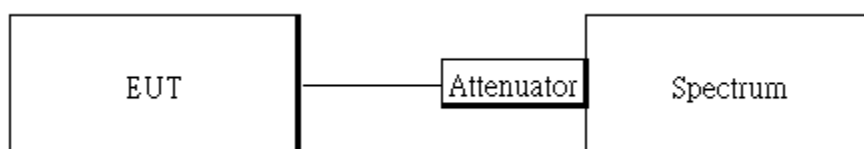
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), 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.

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10.3.2 Conducted Band Edge:

In any 100 kHz bandwidth outside the frequency band

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

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Conducted Spurious Emission:

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

10.4 Measurement Result

802.11b Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	11.04	-8.96
2437	12.23	-7.77
2462	11.06	-8.94
2467	4.20	-15.80
2472	-0.92	-20.92

802.11g Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	4.15	-15.85
2437	9.96	-10.04
2462	4.13	-15.87
2467	1.22	-18.78
2472	-0.92	-20.92

802.11n HT_20M Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	4.00	-16.00
2437	9.98	-10.02
2462	3.92	-16.08
2467	1.11	-18.89
2472	-0.23	-20.23

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802.11n_HT_40M Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	-1.11	-21.11
2437	1.89	-18.11
2452	-0.02	-20.02
2457	-1.06	-21.06
2462	-2.09	-22.09

802.11ax_HE_20M Ch0

Reference Level of Limit		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	full	3.78
	26/0	9.93
	52/37	7.95
	106/53	4.34
	242	2.47
2437	full	8.21
	26/0	16.54
	52/37	14.51
	106/53	12.27
	26/8	16.50
	52/40	13.86
	106/54	11.28
	242	8.26
2462	full	2.73
	26/8	9.37
	52/40	7.04
	106/54	6.37
	242	3.45
2467	full	0.93
	26/8	4.99
	52/40	3.28
	106/54	-0.27
	242	-2.35
2472	full	-1.03
	26/8	0.66
	52/40	-2.14
	106/54	-4.38
	242	-7.03

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802.11ax_HE_40M Ch0

Reference Level of Limit			
Freq. (MHz)		PSD (dBm)	Reference Level of Limit (dBm)
2422	full	-0.37	-20.37
	242/61	2.56	-17.44
	484	-2.58	-22.58
2437	full	1.61	-18.39
	242/61	2.55	-17.45
	242/62	2.59	-17.41
	484	-0.40	-20.40
2452	full	-0.07	-20.07
	242/62	1.69	-18.31
	484	-3.43	-23.43
2457	full	-1.32	-21.32
	242/62	0.67	-19.33
	484	-4.54	-24.54
2462	full	-3.36	-23.36
	242/62	-6.58	-26.58
	484	-6.71	-26.71

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t (886-2) 2299-3279

f (886-2) 2298-0488

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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2467MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz



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802.11g_20MHz_Chain0_2437MHz



802.11g_20MHz_Chain0_2472MHz



802.11g_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2437MHz



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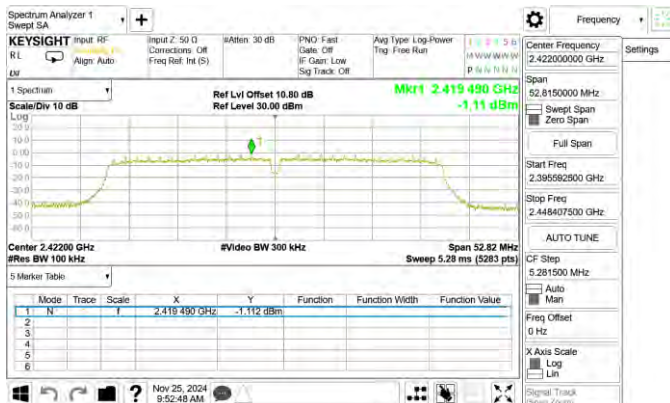
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802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2422MHz



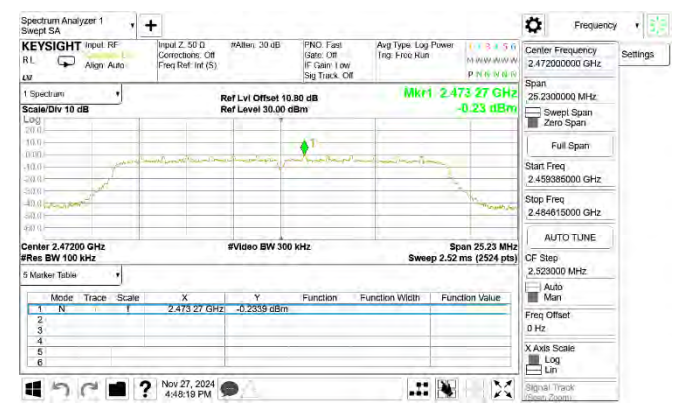
802.11n_20MHz_Chain0_2467MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2472MHz



802.11n_40MHz_Chain0_2452MHz



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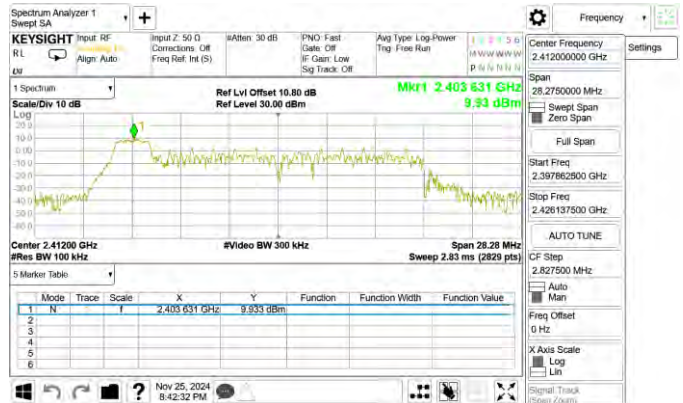
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802.11n_40MHz_Chain0_2457MHz



802.11ax_20MHz_Chain0_2412MHz_RU26_0



802.11n_40MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz_RU106_53



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802.11ax_20MHz_Chain0_2412MHz_RU242



802.11ax_20MHz_Chain0_2437MHz_RU26_8



802.11ax_20MHz_Chain0_2437MHz



802.11ax_20MHz_Chain0_2437MHz_RU52_37



802.11ax_20MHz_Chain0_2437MHz_RU26_0



802.11ax_20MHz_Chain0_2437MHz_RU52_40

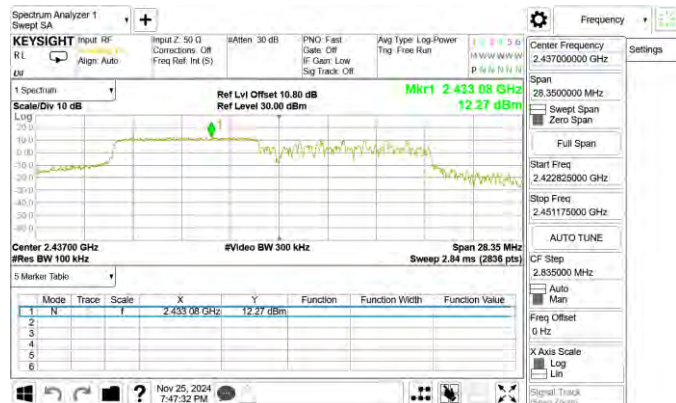


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802.11ax_20MHz_Chain0_2437MHz_RU106_53



802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2437MHz_RU106_54



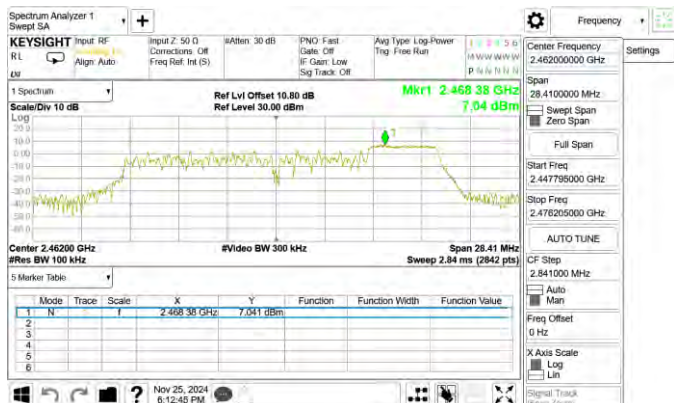
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802.11ax_20MHz_Chain0_2437MHz_RU242



802.11ax_20MHz_Chain0_2462MHz_RU52_40

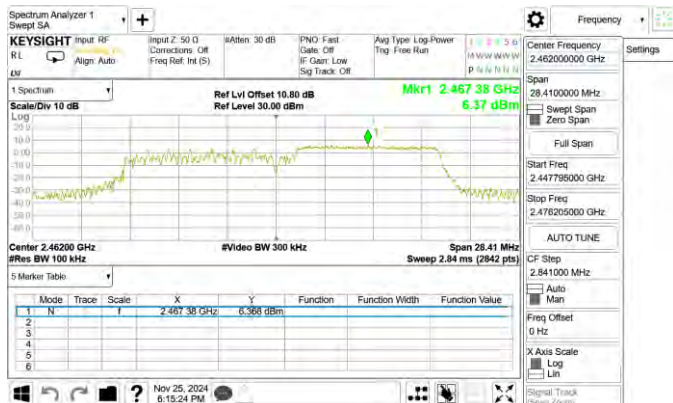


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802.11ax_20MHz_Chain0_2462MHz_RU106_54



802.11ax_20MHz_Chain0_2467MHz_RU26_8



802.11ax_20MHz_Chain0_2462MHz_RU242



802.11ax_20MHz_Chain0_2467MHz_RU52_40



802.11ax_20MHz_Chain0_2467MHz



802.11ax_20MHz_Chain0_2467MHz_RU106_54

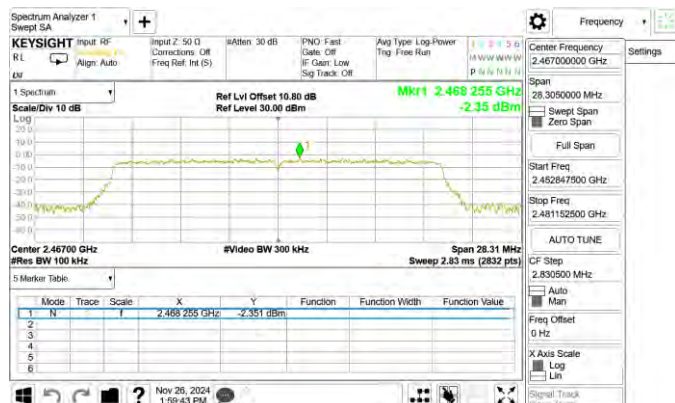


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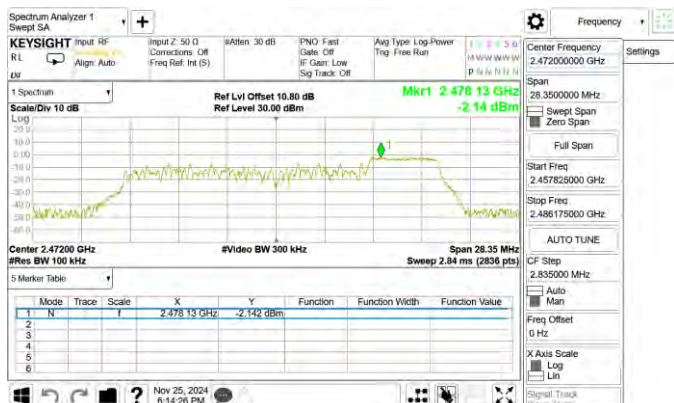
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802.11ax_20MHz_Chain0_2467MHz_RU242



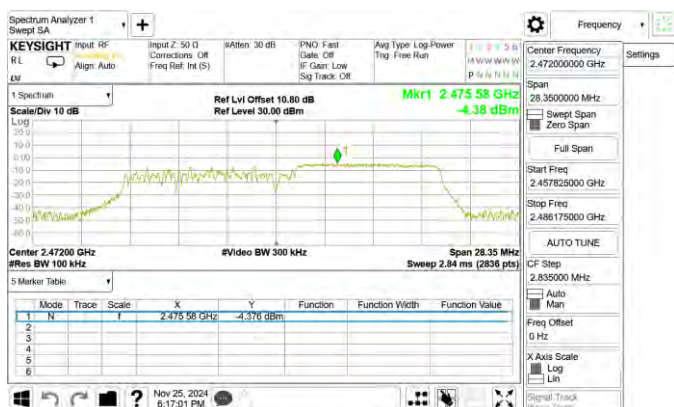
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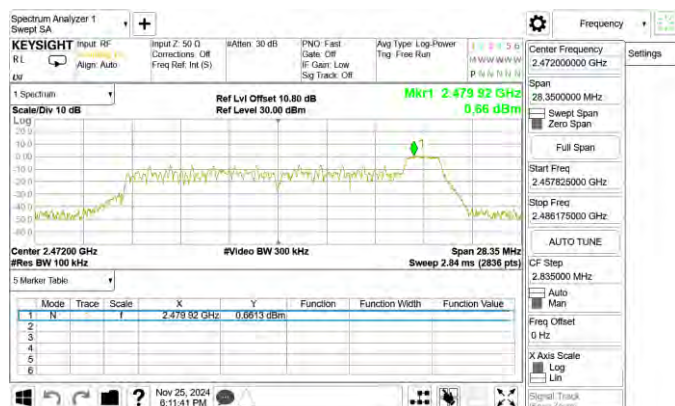
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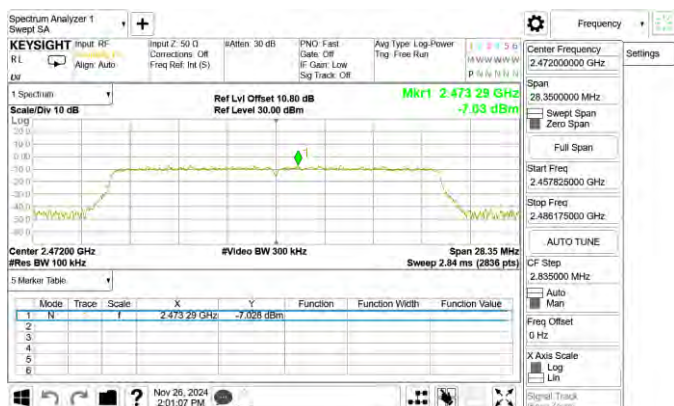
802.11ax_20MHz_Chain0_2472MHz_RU106_54



802.11ax_20MHz_Chain0_2472MHz_RU26_8



802.11ax_20MHz_Chain0_2472MHz_RU242



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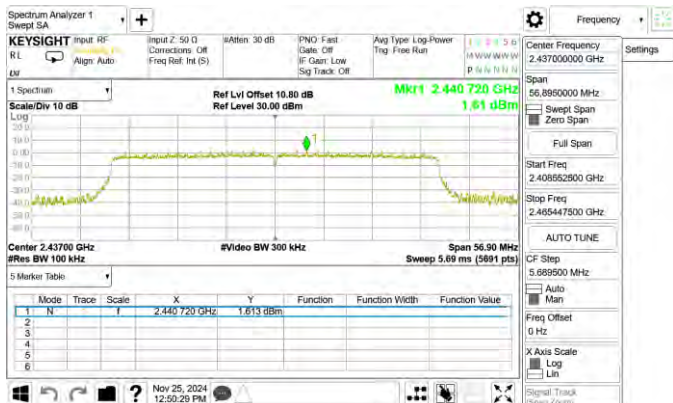
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802.11ax_40MHz_Chain0_2422MHz



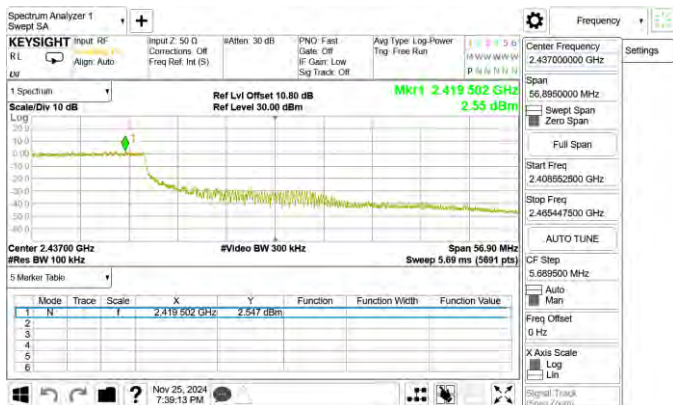
802.11ax_40MHz_Chain0_2437MHz



802.11ax_40MHz_Chain0_2422MHz_RU242_61



802.11ax_40MHz_Chain0_2437MHz_RU242_61



802.11ax_40MHz_Chain0_2422MHz_RU484



802.11ax_40MHz_Chain0_2437MHz_RU242_62



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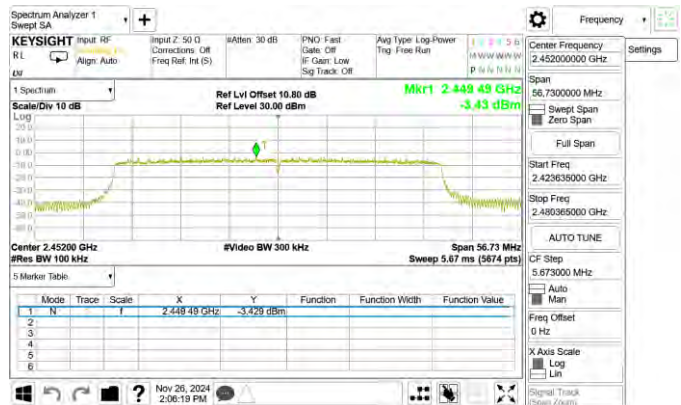
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802.11ax_40MHz_Chain0_2437MHz_RU484



802.11ax_40MHz_Chain0_2452MHz_RU484



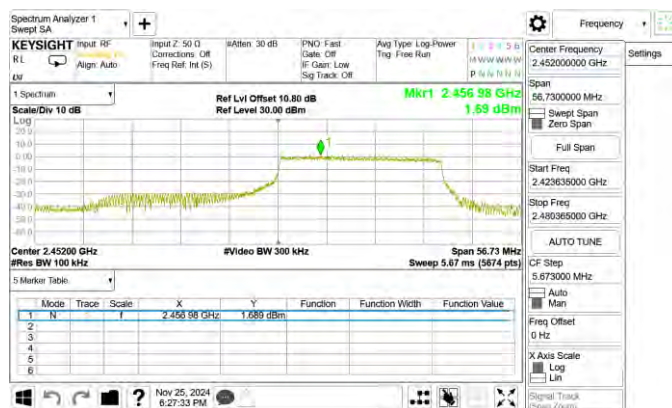
802.11ax_40MHz_Chain0_2452MHz



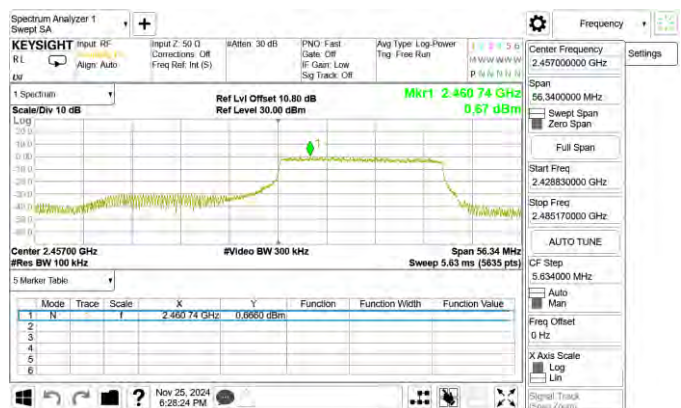
802.11ax_40MHz_Chain0_2457MHz



802.11ax_40MHz_Chain0_2452MHz_RU242_62



802.11ax_40MHz_Chain0_2457MHz_RU242_62



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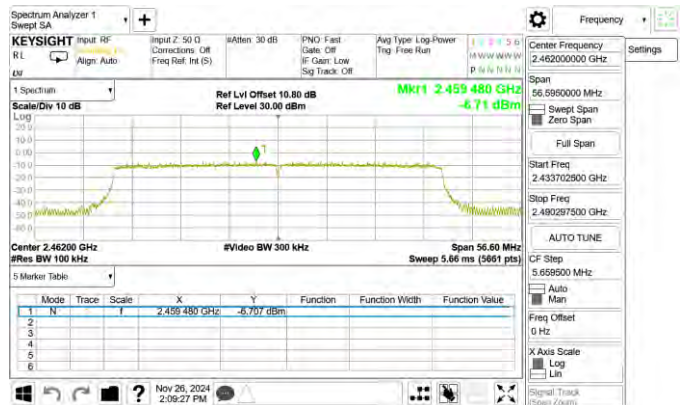
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802.11ax_40MHz_Chain0_2457MHz_RU484



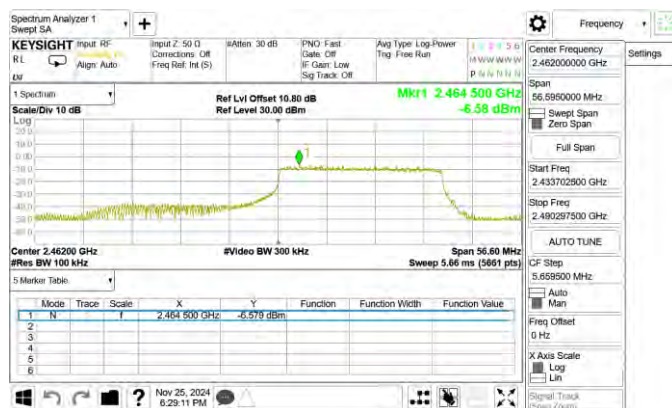
802.11ax_40MHz_Chain0_2462MHz_RU484



802.11ax_40MHz_Chain0_2462MHz



802.11ax_40MHz_Chain0_2462MHz_RU242_62



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802.11b_20MHz_Chain0_2412MHz



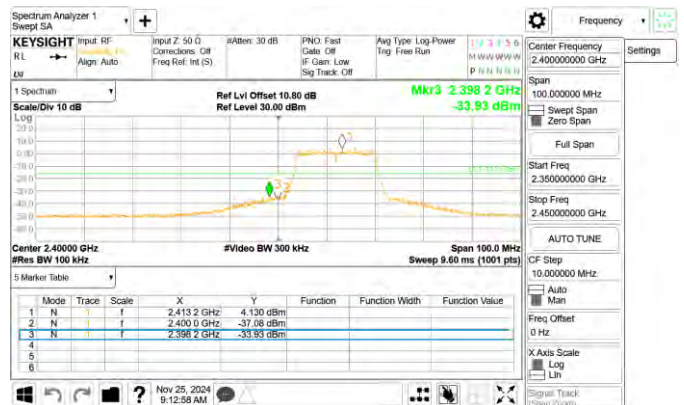
802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



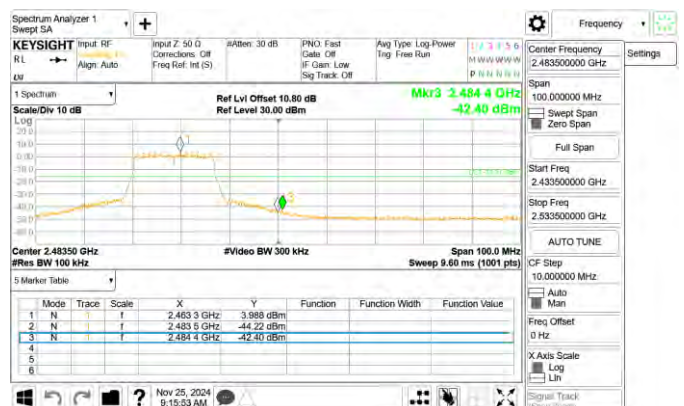
802.11g_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2467MHz



802.11g_20MHz_Chain0_2462MHz

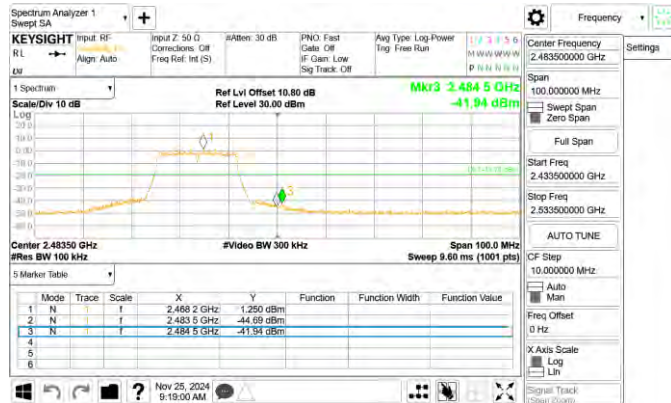


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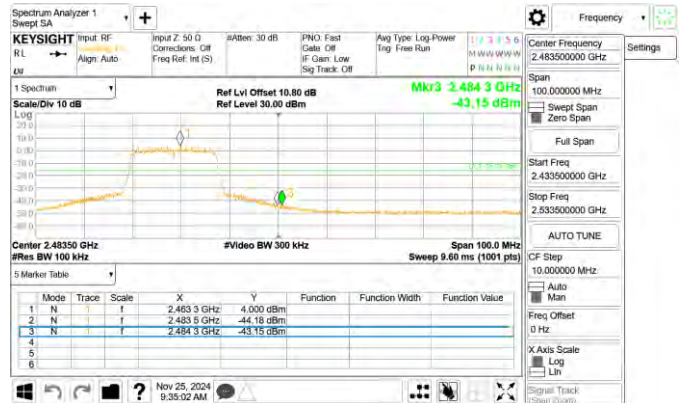
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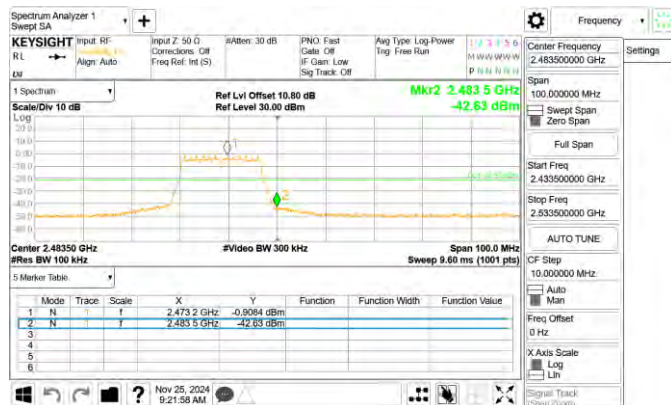
802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2472MHz



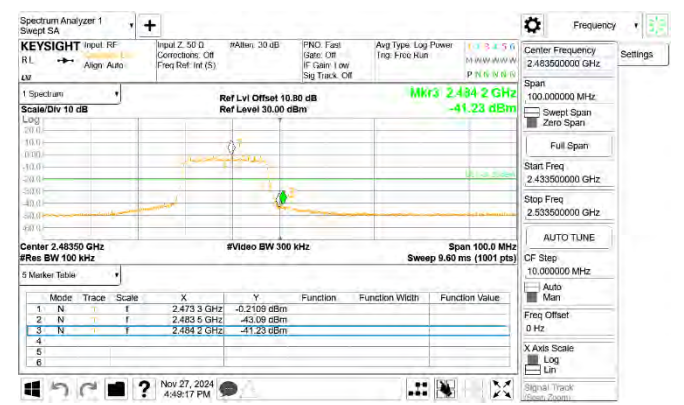
802.11n_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2472MHz



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802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2452MHz



802.11ax_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2457MHz



802.11ax_20MHz_Chain0_2412MHz_RU106_53

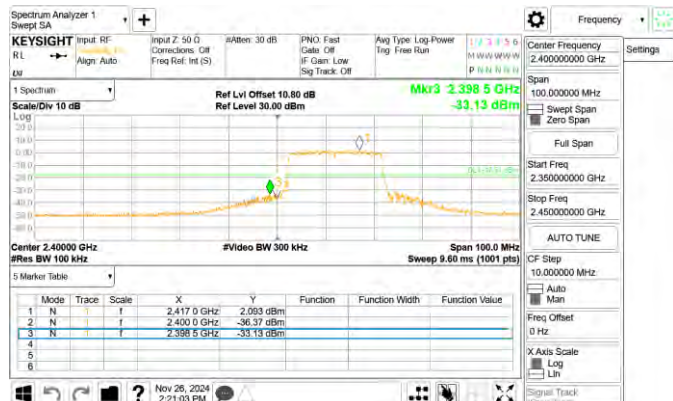


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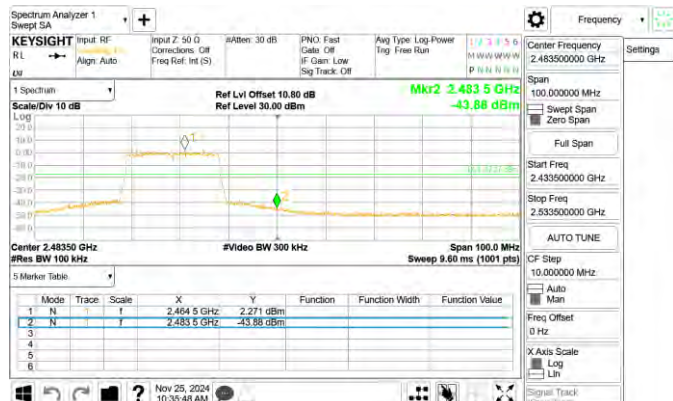
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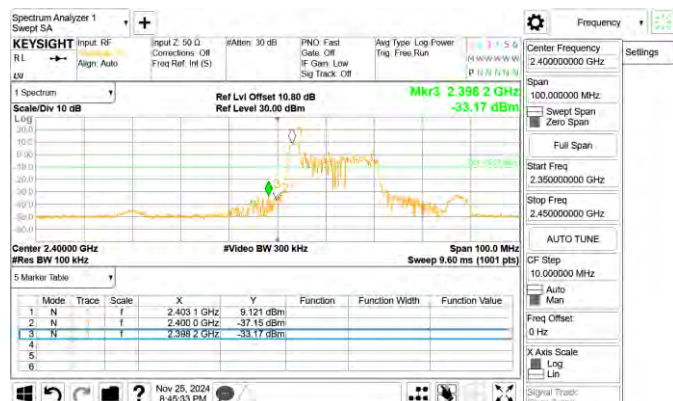
802.11ax_20MHz_Chain0_2412MHz_RU242



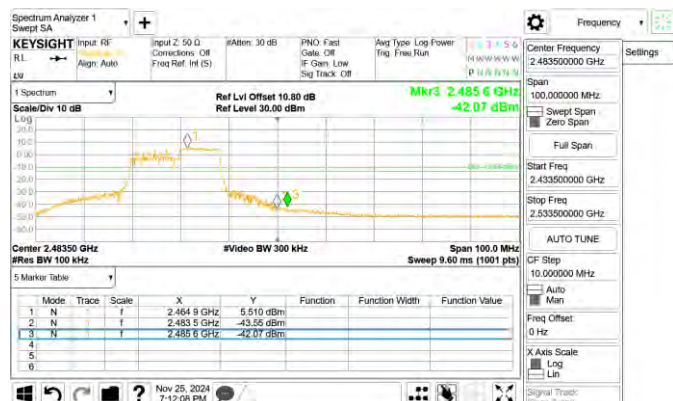
802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2412MHz_RU26_0



802.11ax_20MHz_Chain0_2462MHz_RU106_54



802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2462MHz_RU242.

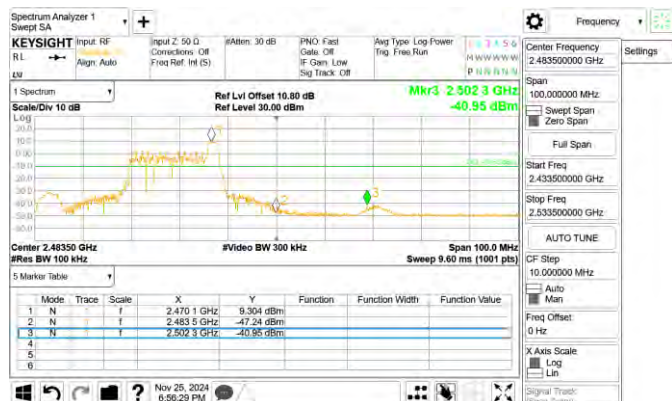


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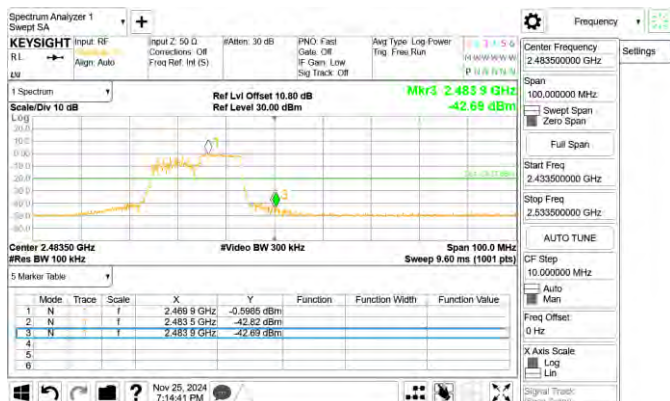
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802.11ax_20MHz_Chain0_2462MHz_RU26_8



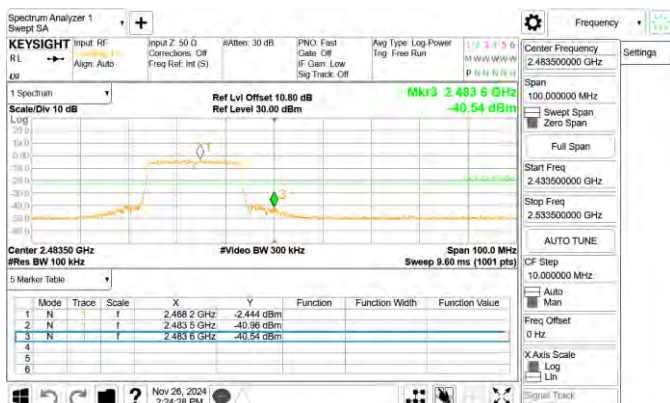
802.11ax_20MHz_Chain0_2467MHz_RU106_54



802.11ax_20MHz_Chain0_2462MHz_RU52_40



802.11ax_20MHz_Chain0_2467MHz_RU242_



802.11ax_20MHz_Chain0_2467MHz



802.11ax_20MHz_Chain0_2467MHz_RU26_8



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802.11ax_20MHz_Chain0_2467MHz_RU52_40



802.11ax_20MHz_Chain0_2472MHz_RU242.



802.11ax_20MHz_Chain0_2472MHz



802.11ax_20MHz_Chain0_2472MHz_RU26_8



802.11ax_20MHz_Chain0_2472MHz_RU106_54



802.11ax_20MHz_Chain0_2472MHz_RU52_40

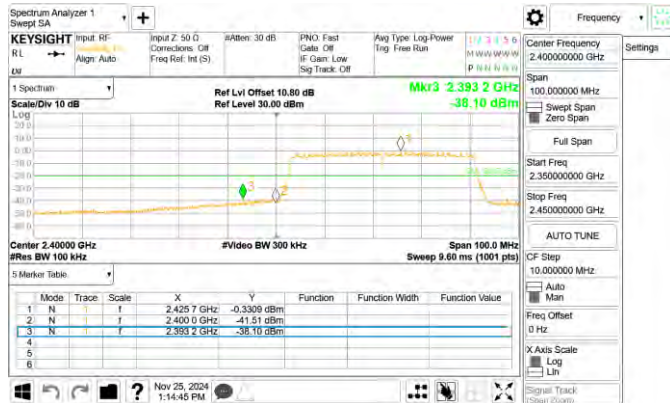


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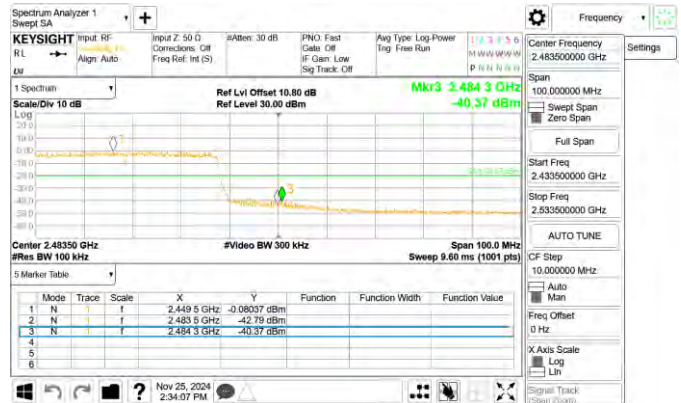
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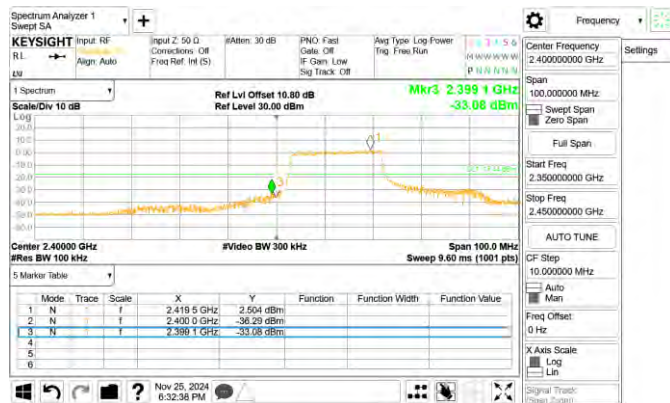
802.11ax_40MHz_Chain0_2422MHz



802.11ax_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain0_2422MHz_RU242_61



802.11ax_40MHz_Chain0_2452MHz_RU242_62



802.11ax_40MHz_Chain0_2422MHz_RU484



802.11ax_40MHz_Chain0_2452MHz_RU484

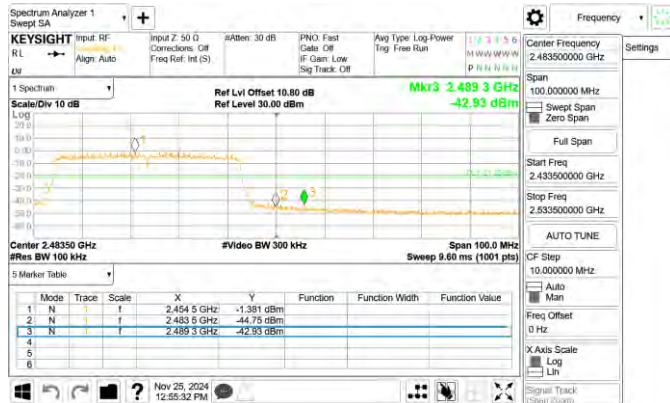


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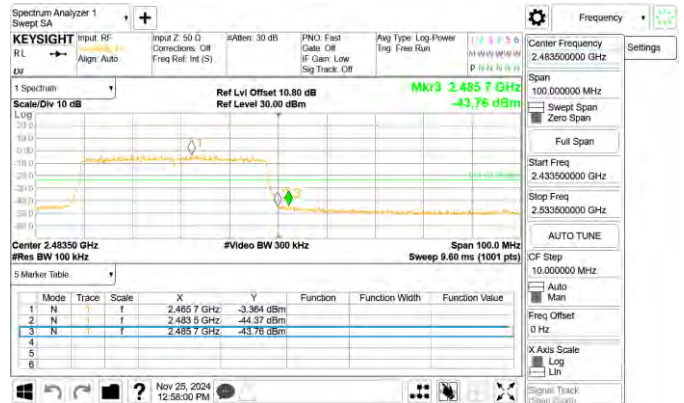
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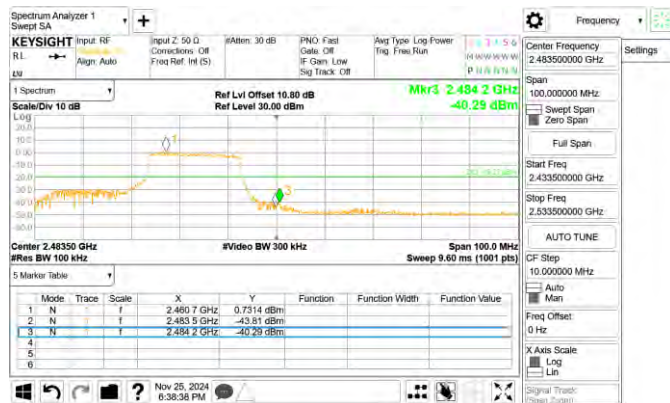
802.11ax_40MHz_Chain0_2457MHz



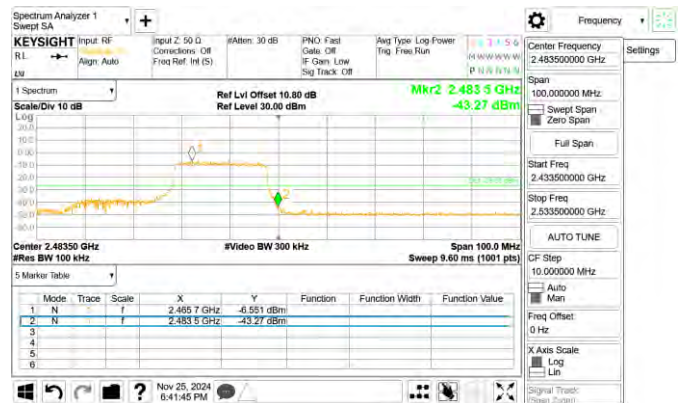
802.11ax_40MHz_Chain0_2462MHz



802.11ax_40MHz_Chain0_2457MHz_RU242_62



802.11ax_40MHz_Chain0_2462MHz_RU242_62



802.11ax_40MHz_Chain0_2457MHz_RU484



802.11ax_40MHz_Chain0_2462MHz_RU484

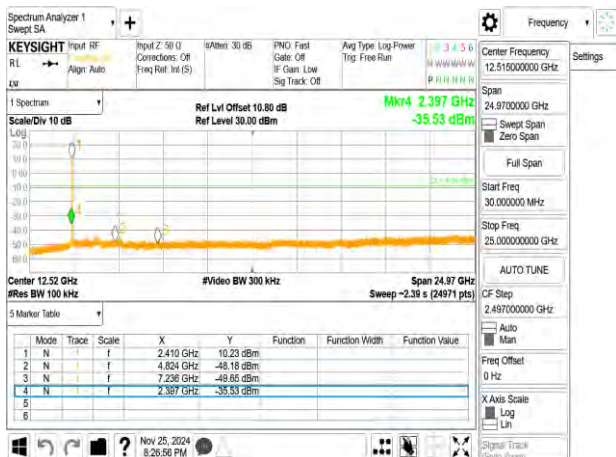


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802.11b_20MHz_Chain0_2412MHz



802.11b_20MHz_Chain0_2467MHz



802.11b_20MHz_Chain0_2437MHz



802.11b_20MHz_Chain0_2472MHz



802.11b_20MHz_Chain0_2462MHz



802.11g_20MHz_Chain0_2412MHz



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802.11g_20MHz_Chain0_2437MHz



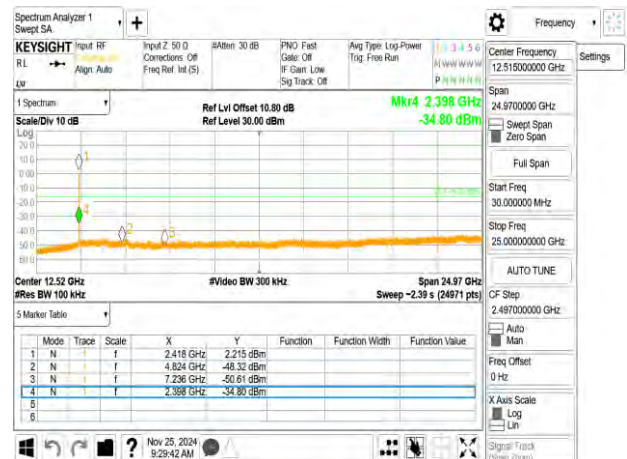
802.11g_20MHz_Chain0_2472MHz



802.11g_20MHz_Chain0_2462MHz



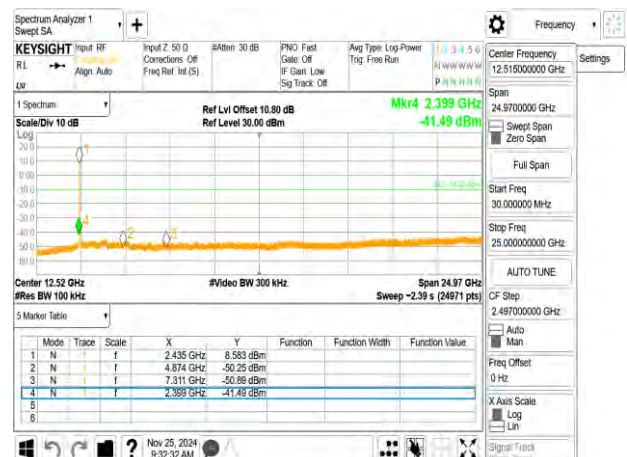
802.11n_20MHz_Chain0_2412MHz



802.11g_20MHz_Chain0_2467MHz



802.11n_20MHz_Chain0_2437MHz



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802.11n_20MHz_Chain0_2462MHz



802.11n_40MHz_Chain0_2422MHz



802.11n_20MHz_Chain0_2467MHz



802.11n_40MHz_Chain0_2437MHz



802.11n_20MHz_Chain0_2472MHz



802.11n_40MHz_Chain0_2452MHz



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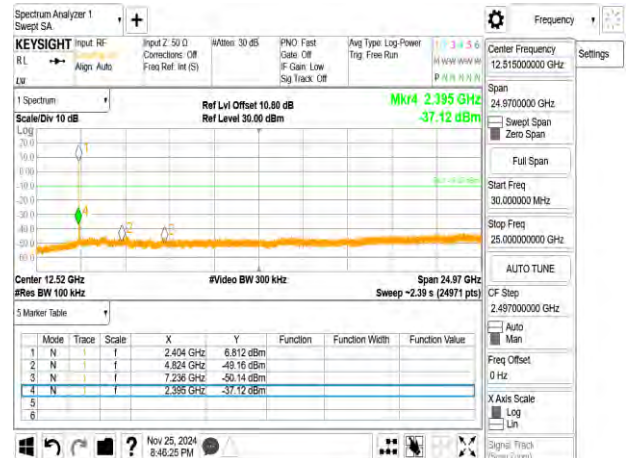
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802.11n_40MHz_Chain0_2457MHz



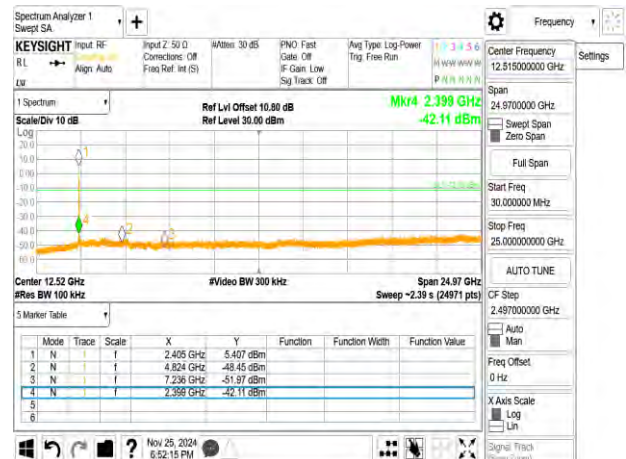
802.11ax_20MHz_Chain0_2412MHz_RU26_0



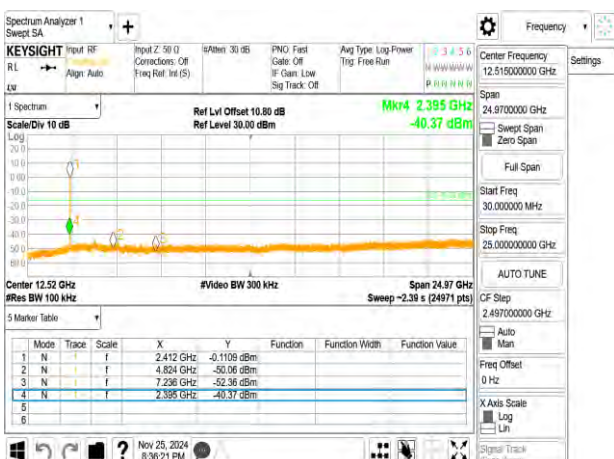
802.11n_40MHz_Chain0_2462MHz



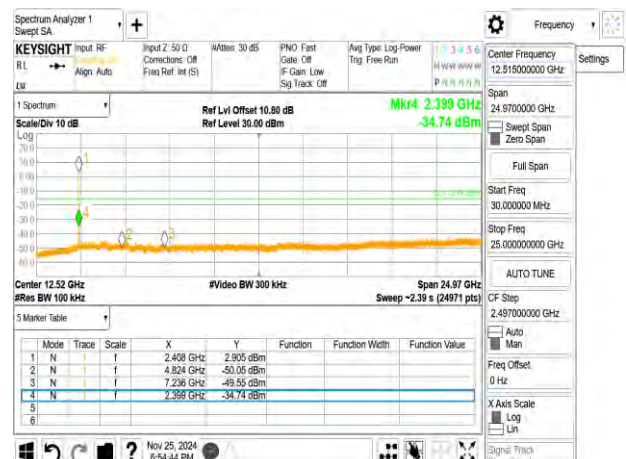
802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz_RU106_53



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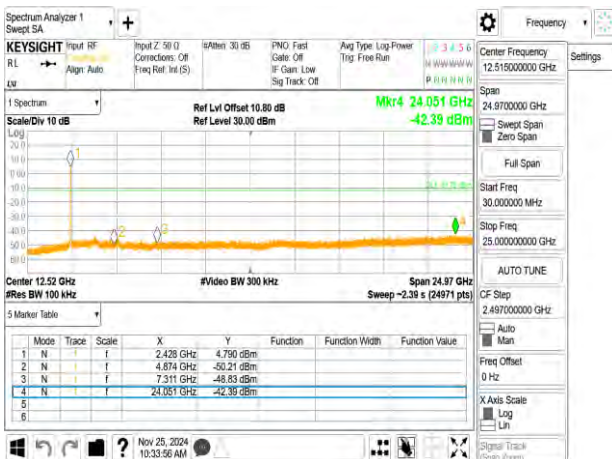
802.11ax_20MHz_Chain0_2412MHz_RU242



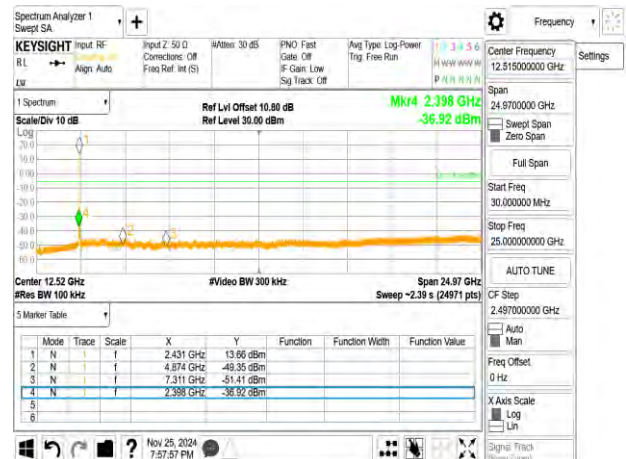
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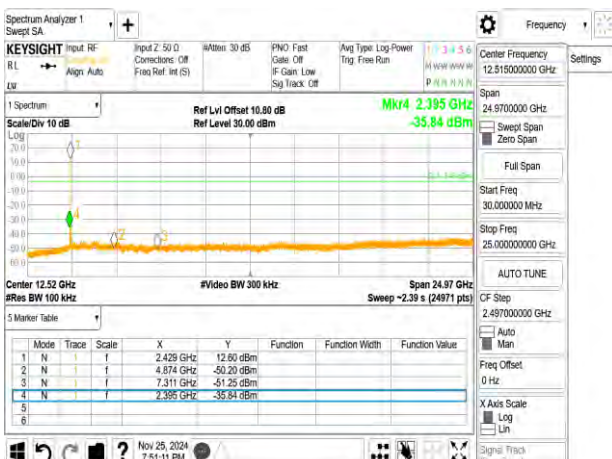
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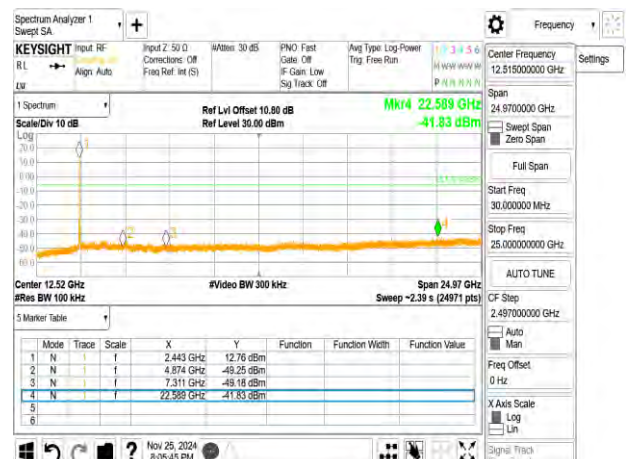
802.11ax_20MHz_Chain0_2437MHz_RU52_37



802.11ax_20MHz_Chain0_2437MHz_RU26_0



802.11ax_20MHz_Chain0_2437MHz_RU52_40



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802.11ax_20MHz_Chain0_2437MHz_RU106_53-1



802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain0_2437MHz_RU106_54



802.11ax_20MHz_Chain0_2462MHz_RU26_8



802.11ax_20MHz_Chain0_2437MHz_RU242.



802.11ax_20MHz_Chain0_2462MHz_RU52_40



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