

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Motive Technologies, Inc.
55 Hawthorne St. Suite #400, San Francisco, CA 94105, USA

Manufacturer: Motive Technologies, Inc.
55 Hawthorne St. Suite #400, San Francisco, CA 94105, USA

Product Name: AI Dashcam Plus

Brand Name: Motive

Model No.: DC64-NA.01

/ISED HVIN:

Family No.: DC63-NA.01, DC64-WW.01, DC63-WW.01

/ Family ISED HVIN:

Model Difference: DC64-NA.01 & DC64-WW.01 with 3 cameras design; DC63-NA.01 & DC63-WW.01 with 2 cameras design

ISED PMN: AI Dashcam Plus

Report Number: TERF2404001129ER

FCC ID 2AQM7-DC6

IC: 24516-DC6

Date of EUT Received: April 22, 2024

Date of Test: April 22, 2024 ~ June 3, 2024

Issue Date: December 30, 2024

Approved By**Jim Chang****We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2404001129ER	00	Original	Dec. 2, 2024	Candice Li	
TERF2404001129ER	01	Add PMN, Revision Note 3; Modify FVIN, Section 1.3	Dec. 30, 2024	Candice Li	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、There is no different camera module among HVINs, the DC63-NA.01 and DC63-WW.01 are depopulated 1 camera from the DC64-NA01 and DC64-WW.01. And DC64-WW.01 & DC63-WW.01 just for marketing purpose.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	AI Dashcam Plus
Brand Name:	Motive
Model No.: /ISED HVIN:	DC64-NA.01
Family No.: / Family ISED HVIN:	DC63-NA.01, DC64-WW.01, DC63-WW.01
Model Difference:	DC64-NA.01 & DC64-WW.01 with 3 cameras design; DC63-NA.01 & DC63-WW.01 with 2 cameras design
Hardware Version:	1
Firmware Version:	N/A
EUT Series No.:	AABV52BE140032
Power Supply:	12-24Vdc
Test Software (Name/Version)	QRCT V4.0

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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	22.26	19.48	DSSS
802.11g	2412~2462	11	22.78	17.35	OFDM
802.11n_HT20	2412~2462	11	24.28	18.48	OFDM
802.11n_HT40	2422~2452	7	23.87	18.44	OFDM
802.11ax_HE20	2412~2462	11	29.02	18.49	OFDMA
802.11ax_HE40	2422~2452	7	25.67	16.48	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b			
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n			
		256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac			
		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 144.4Mbps			
		802.11n_HT40: up to 300Mbps			
		802.11ac_VHT20: up to 173.4Mbps			
		802.11ac_VHT40: up to 400Mbps			
		802.11ax_HE20: up to 286.8Mbps			
		802.11ax_HE40: up to 573.6Mbps			

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WLAN 2.4GHz for IC

Wi-Fi	Frequency Range	Channels	Rated Power (dBm)		Rated Power in dBm (EIRP)	Modulation Technology
			Peak	Avg.		
802.11b	2412~2462	11	22.26	19.48	23.31	DSSS
802.11g	2412~2462	11	22.78	17.35	21.18	OFDM
802.11n_HT20	2412~2462	11	24.28	18.48	22.33	OFDM
802.11n_HT40	2422~2452	7	23.87	18.44	22.29	OFDM
802.11ax_HE20	2412~2462	11	29.02	18.49	22.34	OFDMA
802.11ax_HE40	2422~2452	7	25.67	16.48	20.33	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS in 802.11b				
		64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n				
		256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac				
		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 144.4Mbps				
		802.11n_HT40: up to 300Mbps				
		802.11ac_VHT20: up to 173.4Mbps				
		802.11ac_VHT40: up to 400Mbps				
		802.11ax_HE20: up to 286.8Mbps				
		802.11ax_HE40: up to 573.6Mbps				

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Model No.	Freq. (MHz)	ch0/ch1	Peak Antenna Gain (dBi)
IFA	INPAQ	WAG-F-LTE12LB-00-001	2412~2462	ch0	3.88
				ch1	3.83

Note:

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

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1.4 Test Methodology of Applied Standards

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

1.5 Test Facility

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

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

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

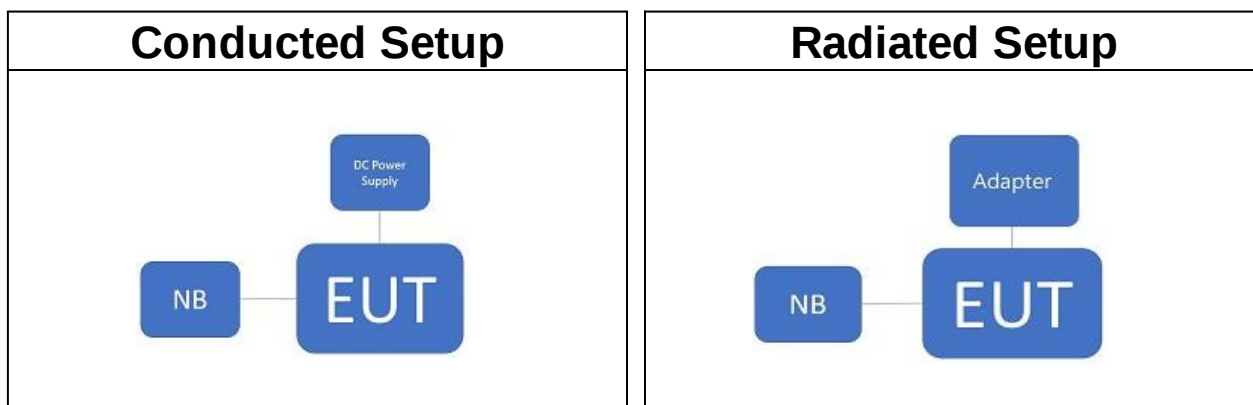
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	P0003860	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A
Adapter	iMax	CHAO024-120200	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

2400~2483.5 MHz			
20MHz		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		
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 gevin UE is pre-scanned among below modes.

Modulation		Transmission Chain								Single Transmission Spatial		Multi Transmission Spatial	
V	802.11 b	V	Ch0	V	Ch1		Ch2		Ch3	V	1TX		2TX
V	802.11 g	V	Ch0	V	Ch1		Ch2		Ch3	V	1TX		2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ax	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.

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,6,11	DSSS	1	ch1
802.11g	1 to 11	1,2,6,10,11	OFDM	6	ch1
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,6,9	OFDM	MCS0	2TX

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

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	6	OFDM	6	ch1

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,2,6,11	DSSS	1	ch1
802.11g	1 to 11	1,2,6,10,11	OFDM	6	ch1
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	2TX
802.11n_HT40	3 to 9	3,6,9	OFDM	MCS0	2TX

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	1 to 11	1,2,6,11	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
802.11ax_HE40	3 to 9	3,6,9	OFDMA	FULL RU 242/61,242/62	MCS0	2TX

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Woken	WATT-218FS-10	RF18	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF22	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF153	11/15/2023	11/14/2024
DC Power Supply	Gwinstek	SPS-3610	GEW902165	01/17/2024	01/16/2025
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/15/2023	06/14/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

6.2 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/24/2024	01/23/2025
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/03/2024	04/02/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024

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

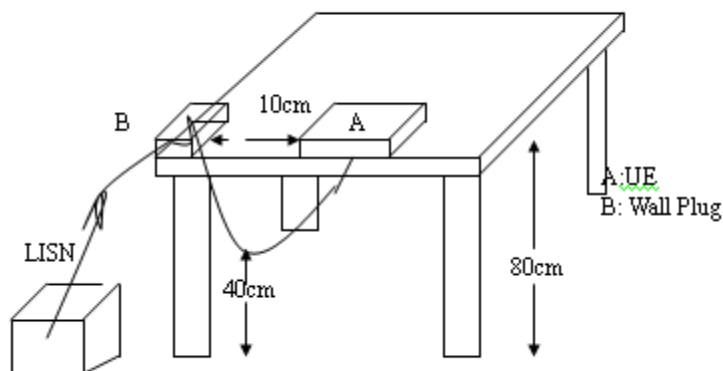
Note

- 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

7.5 Measurement Result

N/A; Powered from car battery.

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle

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

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

8.1.2 FCC

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

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

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

8.1.3 ISED

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

Note:

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

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

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

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

where

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

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NSS = the number of independent spatial streams of data;

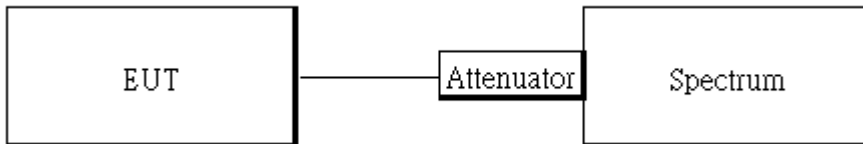
NANT = the total number of antennas

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

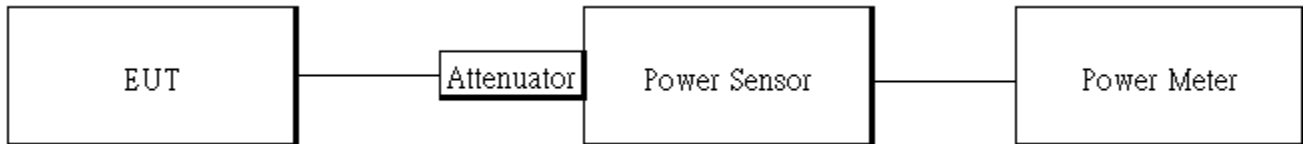
G_k is the gain in dBi of the kth antenna.

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, cable loss is specified below.

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

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8.4 Measurement Result

8.4.1 Duty Cycle:

Mode		Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b		97.67	0.10	1.49	2.00
802.11g		99.24	0.03	0.48	0.01
802.11n_20		99.71	0.01	0.18	0.01
802.11n_40		99.47	0.02	0.33	0.01
Mode	RU Config	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11ax_20	Full	99.71	0.01	0.18	0.01
	26 RU	99.59	0.02	0.20	0.01
	52 RU	99.59	0.02	0.20	0.01
	106 RU	99.56	0.02	0.21	0.01
802.11ax_40	Full	99.73	0.01	0.18	0.01
	242 RU	99.24	0.03	0.37	0.01

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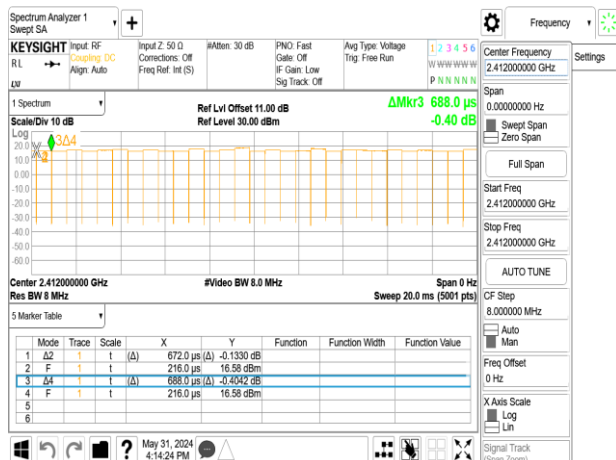
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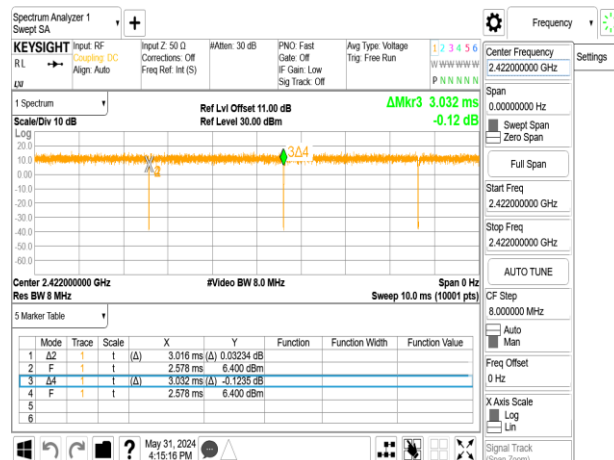
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8.4.2 Duty Cycle test plots

802.11b_20MHz_Chain0_2412MHz



802.11n_40MHz_Chain0_2422MHz



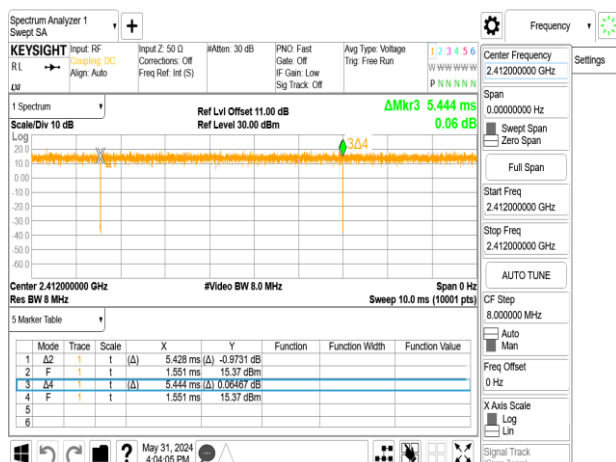
802.11g_20MHz_Chain0_2412MHz



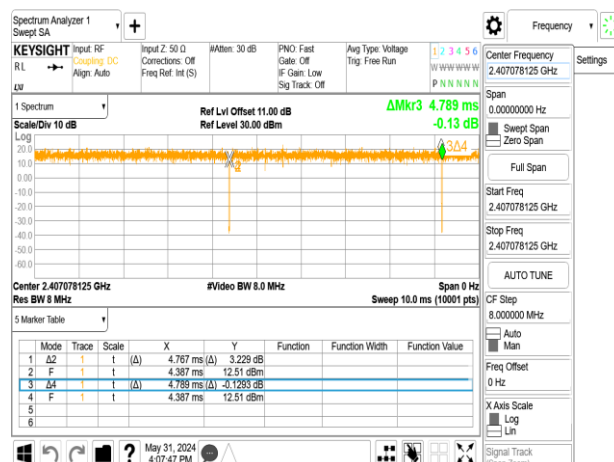
802.11ax_20MHz_Chain0_2412MHz



802.11n_20MHz_Chain0_2412MHz



802.11ax_20MHz_Chain0_2412MHz_RU106_53

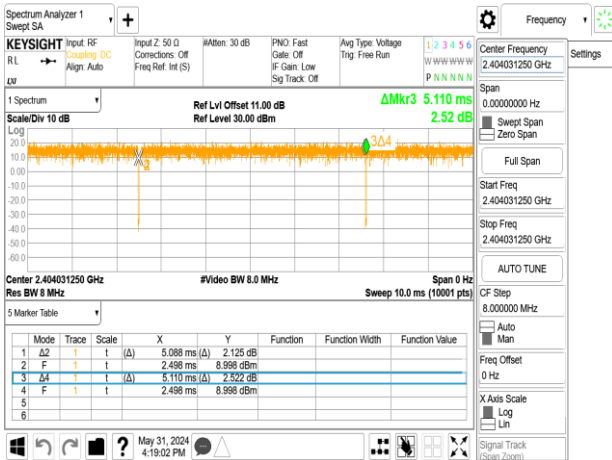


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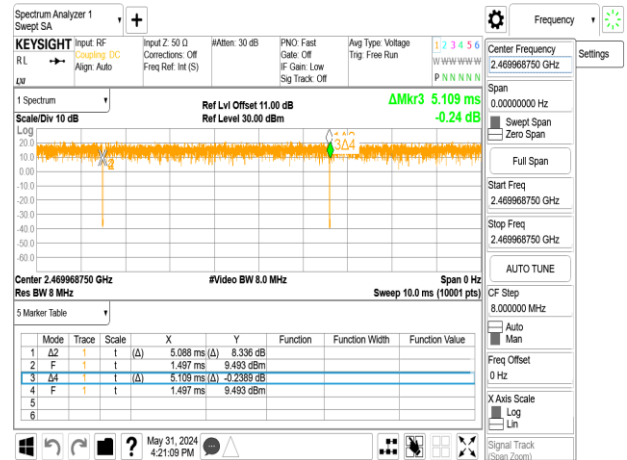
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802.11ax_20MHz_Chain0_2412MHz_RU26_0



802.11ax_20MHz_Chain0_2462MHz_RU26_8



802.11ax_20MHz_Chain0_2412MHz_RU52_37



802.11ax_20MHz_Chain0_2462MHz_RU52_40



802.11ax_20MHz_Chain0_2462MHz_RU106_54



802.11ax_40MHz_Chain0_2422MHz



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Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF Coupling DC
RL → Align: Auto

Input 2: 50.0
Corrections: Off
Freq Ref: Int (S)

#AttEn: 30.0 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Filter: Off

Avg Type: Voltage
Trig: Free Run

1 2 3 4 5 6
WWW
P N N N N N

Center Frequency
2.412937500 GHz

Span
0.000000000 Hz

☐ Sweet Spot
☐ Zero Span

Full Span

Start Freq
2.412937500 GHz

Stop Freq
2.412937500 GHz

AUTO TUNE

CF Slip
6.0000000 MHz

☐ Auto
☐ Man

Freq Offset
0 Hz

X Axis Scale
☐ Log
☐ Lin

Signal Track

1 Spectrum
Scale/Div 10 dB
Log

Ref Lvl Offset 11.00 dB
Ref Level 30.00 dBm

ΔMkr3 2.757 ms
6.74 dB

Center 2.412937500 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 10.0 ms (10001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	1	t (Δ)	2.736 ms (Δ) 710.0 μs	6.894 dB 2.190 dBm		
3	Δ4	1	t (Δ)	2.757 ms (Δ) 710.0 μs	6.742 dB 2.190 dBm		
4	F	1	t				
5							
6							

May 31, 2024
4:11:52 PM

Spectrum Analyzer 1
Sweep SA

KEYSIGHT
Input RF
Coupling DC
Align Auto
RL

Input 2.50 D
Connections: Off
Freq Ref Int (S)

AttN: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

Avg Type: Voltage
Trip: Free Run

1 2 3 4 5
WWWWWW
P N N N N N

Center Frequency
2.461062500 GHz

Span
0.000000000 Hz
2.461062500 GHz

☐ Sweep Span
☐ Zero Span

Full Span

Start Freq
2.461062500 GHz

Stop Freq
2.461062500 GHz

AUTO TUNE

CF Slip
0.0000000 MHz

☐ Auto
☐ Man

Freq Offset
0 Hz

X Axis Scale
☒ Log
☐ Lin

Signal Track

1 Spectrum
Scale/Div 10 dB
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0

Ref Lvl Offset 11.00 dB
Ref Level 30.00 dBm

ΔMkr3 2.757 ms
0.65 dB

2.46

Center 2.461062500 GHz
Res BW 8 MHz
#Video BW 8.0 MHz
Span 0 Hz
Sweep 10.0 ms (10001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	1	t	(Δ)	2.736 ms (Δ)	1.468 dB		
2	F	1	t	(Δ)	603.0 μs	8.542 dBm		
3	Δ4	1	t	(Δ)	2.757 ms (Δ)	0.6512 dB		
4	F	1	t	(Δ)	603.0 μs	8.542 dBm		
5								
6								

May 31, 2024
4:15:10 PM

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8.4.3 Output Power

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.5	20.65	30.00	PASS
2	2417	1	19.5	21.36	30.00	PASS
6	2437	1	19.5	21.39	30.00	PASS
11	2462	1	19.5	21.72	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.5	18.13	30.00	PASS
2	2417	1	19.5	19.19	30.00	PASS
6	2437	1	19.5	19.21	30.00	PASS
11	2462	1	19.5	19.26	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.5	21.15	30.00	PASS
2	2417	1	19.5	21.98	30.00	PASS
6	2437	1	19.5	22.12	30.00	PASS
11	2462	1	19	22.26	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.5	18.36	30.00	PASS
2	2417	1	19.5	19.39	30.00	PASS
6	2437	1	19.5	19.42	30.00	PASS
11	2462	1	19	19.48	30.00	PASS

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802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	21.85	30.00	PASS
2	2417	6	17.5	22.18	30.00	PASS
6	2437	6	17.5	22.23	30.00	PASS
10	2457	6	17.5	22.12	30.00	PASS
11	2462	6	16.5	21.89	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	15.60	30.00	PASS
2	2417	6	17.5	17.18	30.00	PASS
6	2437	6	17.5	17.19	30.00	PASS
10	2457	6	17.5	17.13	30.00	PASS
11	2462	6	16.5	16.35	30.00	PASS

802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	20.55	30.00	PASS
6	2437	MCS0	16.5	20.53	30.00	PASS
11	2462	MCS0	16	20.65	30.00	PASS
802.11n_HT_20M Ch0						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	15.13	30.00	PASS
6	2437	MCS0	16.5	15.09	30.00	PASS
11	2462	MCS0	16	15.16	30.00	PASS

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802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	22.04	30.00	PASS
2	2417	6	17.5	22.71	30.00	PASS
6	2437	6	17.5	22.78	30.00	PASS
10	2457	6	17.5	22.32	30.00	PASS
11	2462	6	16.5	22.48	30.00	PASS

802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16	15.82	30.00	PASS
2	2417	6	17.5	17.33	30.00	PASS
6	2437	6	17.5	17.35	30.00	PASS
10	2457	6	17.5	17.31	30.00	PASS
11	2462	6	16.5	16.66	30.00	PASS

802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.5	21.34	30.00	PASS
6	2437	MCS0	16	21.26	30.00	PASS
11	2462	MCS0	15.5	21.38	30.00	PASS

802.11n_HT_20M Ch1						
CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.5	15.34	30.00	PASS
6	2437	MCS0	16	15.32	30.00	PASS
11	2462	MCS0	15.5	15.36	30.00	PASS

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802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	16	20.86	21.58	24.25	30.00	PASS
6	2437	MCS0	16.5	20.81	21.54	24.20	30.00	PASS
11	2462	MCS0	16	20.92	21.60	24.28	30.00	PASS

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
1	2412	MCS0	16	15.12	15.65	18.41	30.00	PASS
6	2437	MCS0	16.5	15.07	15.60	18.36	30.00	PASS
11	2462	MCS0	16	15.18	15.73	18.48	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.5	20.42	30.00	PASS
6	2437	MCS0	16	20.34	30.00	PASS
9	2452	MCS0	15.5	20.48	30.00	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.5	15.13	30.00	PASS
6	2437	MCS0	16	15.07	30.00	PASS
9	2452	MCS0	15.5	15.11	30.00	PASS

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802.11n_HT_40M_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15	20.91	30.00	PASS
6	2437	MCS0	15.5	20.86	30.00	PASS
9	2452	MCS0	15	20.96	30.00	PASS

802.11n_HT_40M_Ch1

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15	15.34	30.00	PASS
6	2437	MCS0	15.5	15.27	30.00	PASS
9	2452	MCS0	15	15.28	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	15.5	20.45	21.24	23.87	30.00	PASS
6	2437	MCS0	16	20.54	20.95	23.76	30.00	PASS
9	2452	MCS0	15.5	20.53	21.17	23.87	30.00	PASS

802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				Ch0	Ch1			
3	2422	MCS0	15.5	15.13	15.70	18.44	30.00	PASS
6	2437	MCS0	16	15.20	15.55	18.39	30.00	PASS
9	2452	MCS0	15.5	15.13	15.63	18.40	30.00	PASS

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802.11ax_HE_20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	21.72	30.00	PASS
			26/0	16.5	25.58	30.00	PASS
			52/37	16.5	25.48	30.00	PASS
			106/53	16	24.13	30.00	PASS
2	2417	MCS0	full	16.5	21.13	30.00	PASS
6	2437	MCS0	full	16.5	21.18	30.00	PASS
11	2462	MCS0	full	16	21.22	30.00	PASS
			26/8	15.5	25.27	30.00	PASS
			52/40	15.5	25.22	30.00	PASS
			106/54	15.5	25.11	30.00	PASS
802.11ax_HE_20M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	16	14.28	30.00	PASS
			26/0	16.5	15.10	30.00	PASS
			52/37	16.5	15.15	30.00	PASS
			106/53	16	15.17	30.00	PASS
2	2417	MCS0	full	16.5	15.10	30.00	PASS
6	2437	MCS0	full	16.5	15.14	30.00	PASS
11	2462	MCS0	full	16	15.18	30.00	PASS
			26/8	15.5	15.13	30.00	PASS
			52/40	15.5	15.11	30.00	PASS
			106/54	15.5	15.07	30.00	PASS

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802.11ax_HE_20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	22.12	30.00	PASS
			26/0	16.5	25.78	30.00	PASS
			52/37	16.5	26.07	30.00	PASS
			106/53	16	24.38	30.00	PASS
2	2417	MCS0	full	16.5	22.28	30.00	PASS
6	2437	MCS0	full	16	22.31	30.00	PASS
11	2462	MCS0	full	15.5	22.42	30.00	PASS
			26/8	15.5	25.52	30.00	PASS
			52/40	15.5	25.64	30.00	PASS
			106/54	15.5	25.15	30.00	PASS
802.11ax_HE_20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	14.69	30.00	PASS
			26/0	16.5	15.36	30.00	PASS
			52/37	16.5	15.45	30.00	PASS
			106/53	16	15.46	30.00	PASS
2	2417	MCS0	full	16.5	15.30	30.00	PASS
6	2437	MCS0	full	16	15.33	30.00	PASS
11	2462	MCS0	full	15.5	15.38	30.00	PASS
			26/8	15.5	15.32	30.00	PASS
			52/40	15.5	15.34	30.00	PASS
			106/54	15.5	15.36	30.00	PASS

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802.11ax_HE20M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
1	2412	MCS0	full	15	21.49	22.46	25.01	30.00	PASS
			26/0	16.5	25.55	25.94	28.76	30.00	PASS
			52/37	16.5	25.81	26.16	29.00	30.00	PASS
			106/53	16.5	25.84	26.18	29.02	30.00	PASS
2	2417	MCS0	full	16.5	21.33	22.48	24.95	30.00	PASS
6	2437	MCS0	full	16.5	21.32	22.52	24.97	30.00	PASS
11	2462	MCS0	full	16	21.37	22.52	24.99	30.00	PASS
			26/8	15.5	25.33	25.65	28.50	30.00	PASS
			52/40	15.5	25.17	25.79	28.50	30.00	PASS
			106/54	15.5	25.56	25.72	28.65	30.00	PASS

802.11ax_HE20M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
1	2412	MCS0	full	15	14.59	14.77	17.69	30.00	PASS
			26/0	16.5	15.12	15.42	18.28	30.00	PASS
			52/37	16.5	15.17	15.60	18.40	30.00	PASS
			106/53	16.5	15.20	15.62	18.42	30.00	PASS
2	2417	MCS0	full	16.5	15.11	15.72	18.44	30.00	PASS
6	2437	MCS0	full	16.5	15.16	15.73	18.47	30.00	PASS
11	2462	MCS0	full	16	15.20	15.73	18.49	30.00	PASS
			26/8	15.5	15.13	15.43	18.29	30.00	PASS
			52/40	15.5	15.15	15.48	18.33	30.00	PASS
			106/54	15.5	15.12	15.54	18.34	30.00	PASS

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802.11ax_HE_40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	16	21.37	30.00	PASS
			242/61	16	23.89	30.00	PASS
6	2437	MCS0	full	16.5	21.23	30.00	PASS
9	2452	MCS0	full	15.5	21.43	30.00	PASS
			242/62	16.5	23.74	30.00	PASS
802.11ax_HE_40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	16	15.25	30.00	PASS
			242/61	16	15.24	30.00	PASS
6	2437	MCS0	full	16.5	15.12	30.00	PASS
9	2452	MCS0	full	15.5	15.30	30.00	PASS
			242/62	16.5	15.20	30.00	PASS

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802.11ax_HE_40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	21.64	30.00	PASS
			242/61	15	24.76	30.00	PASS
6	2437	MCS0	full	16	21.46	30.00	PASS
9	2452	MCS0	full	15.5	21.64	30.00	PASS
			242/62	15.5	24.42	30.00	PASS

802.11ax_HE_40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	15.48	30.00	PASS
			242/61	15	15.41	30.00	PASS
6	2437	MCS0	full	16	15.38	30.00	PASS
9	2452	MCS0	full	15.5	15.40	30.00	PASS
			242/62	15.5	15.37	30.00	PASS

802.11ax_HE40M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
3	2422	MCS0	full	14	19.24	20.02	22.66	30.00	PASS
			242/61	13	21.92	23.21	25.62	30.00	PASS
6	2437	MCS0	full	14.5	19.26	19.93	22.62	30.00	PASS
9	2452	MCS0	full	14	19.32	20.03	22.70	30.00	PASS
			242/62	14	22.05	23.19	25.67	30.00	PASS

802.11ax_HE40M_2TX

CH	Freq. (MHz)	Data Rate	RU Config	Power Setting	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
					Ch0	Ch1			
3	2422	MCS0	full	14	12.89	13.97	16.48	30.00	PASS
			242/61	13	12.38	13.37	15.92	30.00	PASS
6	2437	MCS0	full	14.5	12.98	13.68	16.36	30.00	PASS
9	2452	MCS0	full	14	12.92	13.75	16.37	30.00	PASS
			242/62	14	12.60	13.76	16.23	30.00	PASS

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802.11b Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	18.13	3.88	22.01	36	PASS
2	2417	1	19.19	3.88	23.07	36	PASS
6	2437	1	19.21	3.88	23.09	36	PASS
11	2462	1	19.26	3.88	23.14	36	PASS

802.11b Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	18.36	3.83	22.19	36	PASS
2	2417	1	19.39	3.83	23.22	36	PASS
6	2437	1	19.42	3.83	23.25	36	PASS
11	2462	1	19.48	3.83	23.31	36	PASS

802.11g Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	15.60	3.88	19.48	36	PASS
2	2417	6	17.18	3.88	21.06	36	PASS
6	2437	6	17.19	3.88	21.07	36	PASS
10	2457	6	17.13	3.88	21.01	36	PASS
11	2462	6	16.35	3.88	20.23	36	PASS

802.11n_HT_20M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.13	3.88	19.01	36	PASS
6	2437	MCS0	15.09	3.88	18.97	36	PASS
11	2462	MCS0	15.16	3.88	19.04	36	PASS

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802.11g Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	15.82	3.83	19.65	36	PASS
2	2417	6	17.33	3.83	21.16	36	PASS
6	2437	6	17.35	3.83	21.18	36	PASS
10	2457	6	17.31	3.83	21.14	36	PASS
11	2462	6	16.66	3.83	20.49	36	PASS

802.11n_HT_20M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	15.34	3.83	19.17	36	PASS
6	2437	MCS0	15.32	3.83	19.15	36	PASS
11	2462	MCS0	15.36	3.83	19.19	36	PASS

802.11n_HT20M_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
1	2412	MCS0	15.12	15.65	18.41	3.86	22.26	36	PASS
6	2437	MCS0	15.07	15.60	18.36	3.86	22.21	36	PASS
11	2462	MCS0	15.18	15.73	18.48	3.86	22.33	36	PASS

802.11n_HT_40M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.13	3.88	19.01	36	PASS
6	2437	MCS0	15.07	3.88	18.95	36	PASS
9	2452	MCS0	15.11	3.88	18.99	36	PASS

802.11n_HT_40M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.34	3.83	19.17	36	PASS
6	2437	MCS0	15.27	3.83	19.10	36	PASS
9	2452	MCS0	15.28	3.83	19.11	36	PASS

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802.11n_HT40M_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			Ch0	Ch1					
3	2422	MCS0	15.13	15.70	18.44	3.86	22.29	36	PASS
6	2437	MCS0	15.20	15.55	18.39	3.86	22.25	36	PASS
9	2452	MCS0	15.13	15.63	18.40	3.86	22.26	36	PASS

802.11ax_HE_20M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	14.28	3.88	18.16	36	PASS
			26/0	15.10	3.88	18.98	36	PASS
			52/37	15.15	3.88	19.03	36	PASS
			106/53	15.17	3.88	19.05	36	PASS
2	2417	MCS0	full	15.10	3.88	18.98	36	PASS
6	2437	MCS0	full	15.14	3.88	19.02	36	PASS
11	2462	MCS0	full	15.18	3.88	19.06	36	PASS
			26/8	15.13	3.88	19.01	36	PASS
			52/40	15.11	3.88	18.99	36	PASS
			106/54	15.07	3.88	18.95	36	PASS

802.11ax_HE_20M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	14.69	3.83	18.52	36	PASS
			26/0	15.36	3.83	19.19	36	PASS
			52/37	15.45	3.83	19.28	36	PASS
			106/53	15.46	3.83	19.29	36	PASS
2	2417	MCS0	full	15.30	3.83	19.13	36	PASS
6	2437	MCS0	full	15.33	3.83	19.16	36	PASS
11	2462	MCS0	full	15.38	3.83	19.21	36	PASS
			26/8	15.32	3.83	19.15	36	PASS
			52/40	15.34	3.83	19.17	36	PASS
			106/54	15.36	3.83	19.19	36	PASS

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CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				Ch0	Ch1					
1	2412	MCS0	full	14.59	14.77	17.69	3.86	21.55	36	PASS
			26/0	15.12	15.42	18.28	3.86	22.14	36	PASS
			52/37	15.17	15.60	18.40	3.86	22.25	36	PASS
			106/53	15.20	15.62	18.42	3.86	22.28	36	PASS
2	2417	MCS0	full	15.11	15.72	18.44	3.86	22.29	36	PASS
6	2437	MCS0	full	15.16	15.73	18.47	3.86	22.32	36	PASS
11	2462	MCS0	full	15.20	15.73	18.49	3.86	22.34	36	PASS
			26/8	15.13	15.43	18.29	3.86	22.15	36	PASS
			52/40	15.15	15.48	18.33	3.86	22.18	36	PASS
			106/54	15.12	15.54	18.34	3.86	22.20	36	PASS

802.11ax_HE_40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	15.25	3.88	19.13	36	PASS
			242/61	15.24	3.88	19.12	36	PASS
6	2437	MCS0	full	15.12	3.88	19.00	36	PASS
9	2452	MCS0	full	15.30	3.88	19.18	36	PASS
			242/62	15.20	3.88	19.08	36	PASS

802.11ax_HE_40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	15.48	3.83	19.31	36	PASS
			242/61	15.41	3.83	19.24	36	PASS
6	2437	MCS0	full	15.38	3.83	19.21	36	PASS
9	2452	MCS0	full	15.40	3.83	19.23	36	PASS
			242/62	15.37	3.83	19.20	36	PASS

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802.11ax_HE40M_2TX										
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				Ch0	Ch1					
3	2422	MCS0	full	12.89	13.97	16.48	3.86	20.33	36	PASS
			242/61	12.38	13.37	15.92	3.86	19.77	36	PASS
6	2437	MCS0	full	12.98	13.68	16.36	3.86	20.21	36	PASS
9	2452	MCS0	full	12.92	13.75	16.37	3.86	20.22	36	PASS
			242/62	12.60	13.76	16.23	3.86	20.09	36	PASS

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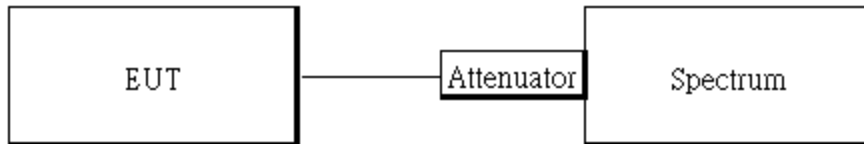
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9 EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

9.2 Test Setup



9.3 Measurement Procedure:

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

9.3.1 6dB BW measurements

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

9.3.2 99% BW measurements

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

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9.4 Measurement Result:

9.4.1 6dB BW measurements

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	7621.00	≥ 500	PASS
2437	8124.00	≥ 500	PASS
2462	8099.00	≥ 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16320.00	≥ 500	PASS
2437	16040.00	≥ 500	PASS
2462	15980.00	≥ 500	PASS

802.11n_HT_20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17220.00	≥ 500	PASS
2437	17320.00	≥ 500	PASS
2462	16970.00	≥ 500	PASS

802.11n_HT_20M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17180.00	≥ 500	PASS
2437	17190.00	≥ 500	PASS
2462	16380.00	≥ 500	PASS

802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35510.00	≥ 500	PASS
2437	36010.00	≥ 500	PASS
2452	35730.00	≥ 500	PASS

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802.11n_HT_40M Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35180.00	≥ 500	PASS
2437	35770.00	≥ 500	PASS
2452	35760.00	≥ 500	PASS

802.11ax_HE_20M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18590.00	≥ 500	PASS
2437	full	18860.00	≥ 500	PASS
2462	full	17960.00	≥ 500	PASS

802.11ax_HE_20M Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	18660.00	≥ 500	PASS
2437	full	18740.00	≥ 500	PASS
2462	full	18570.00	≥ 500	PASS

802.11ax_HE_40M Ch0

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37680.00	≥ 500	PASS
2437	full	37490.00	≥ 500	PASS
2452	full	37290.00	≥ 500	PASS

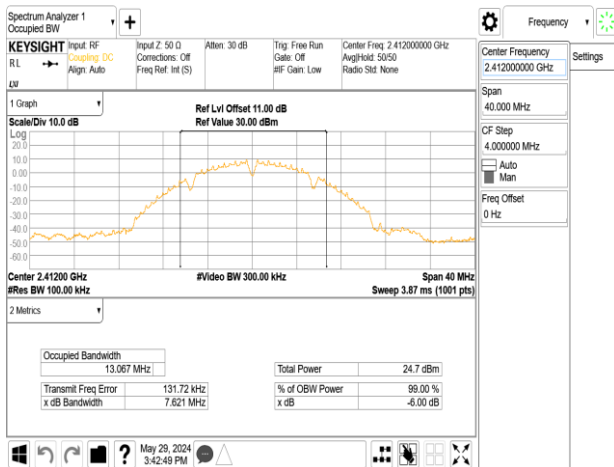
802.11ax_HE_40M Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	37400.00	≥ 500	PASS
2437	full	38020.00	≥ 500	PASS
2452	full	37300.00	≥ 500	PASS

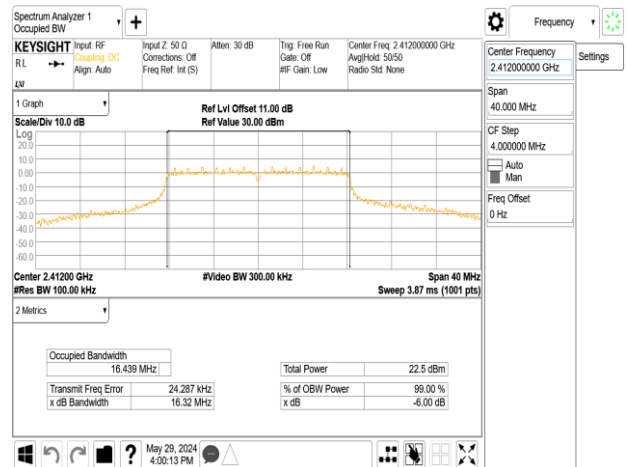
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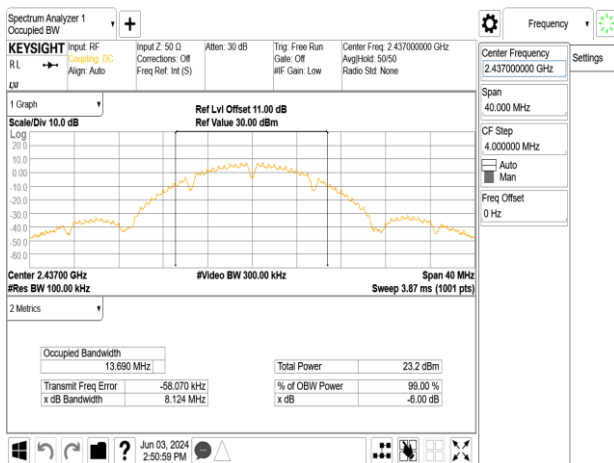
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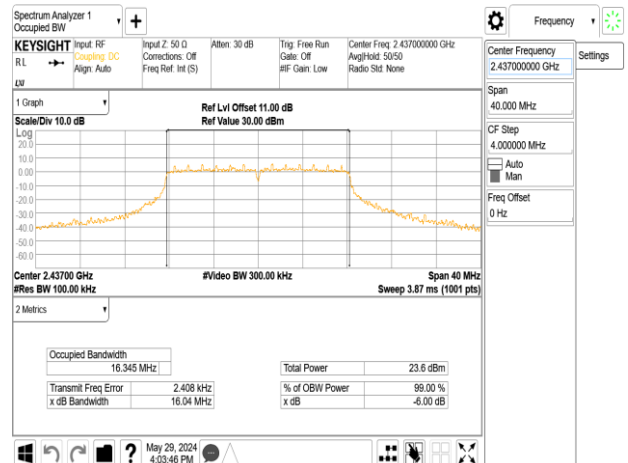
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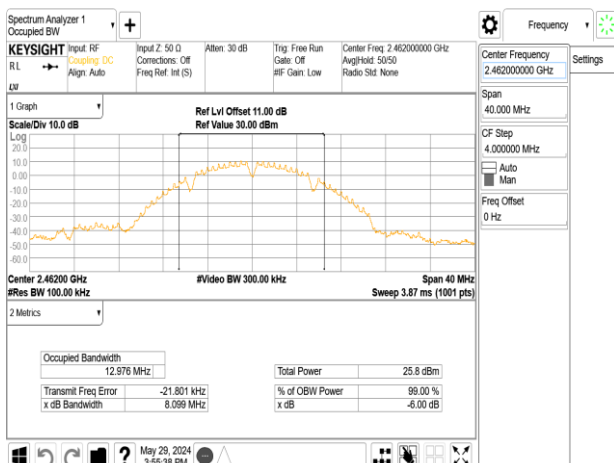
802.11b_20MHz_Chain1_2437MHz



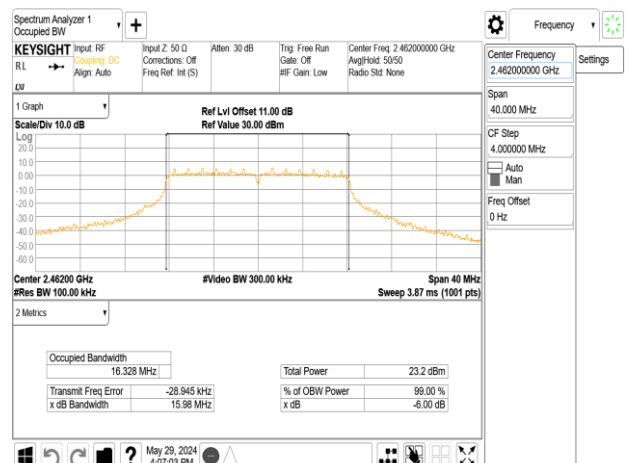
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

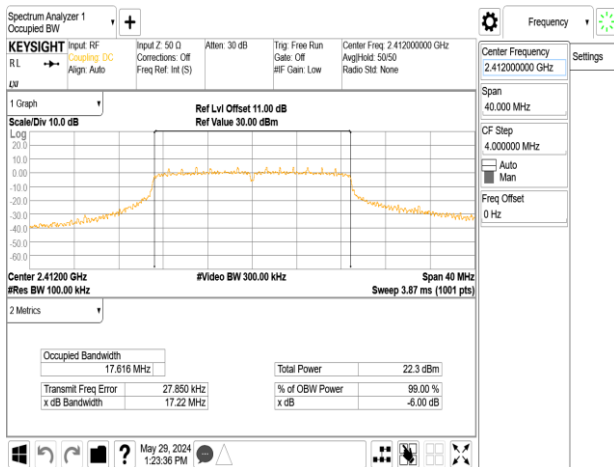


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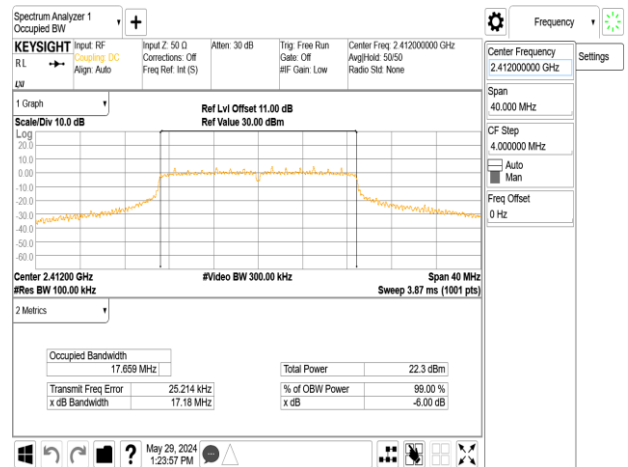
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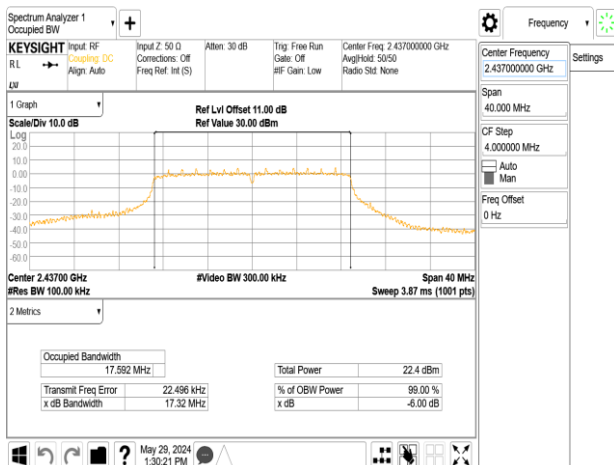
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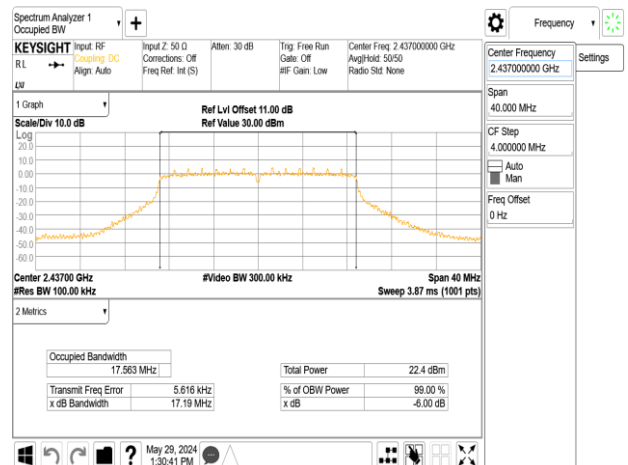
802.11n_20MHz_Chain1_2412MHz



802.11n_20MHz_Chain0_2437MHz



802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

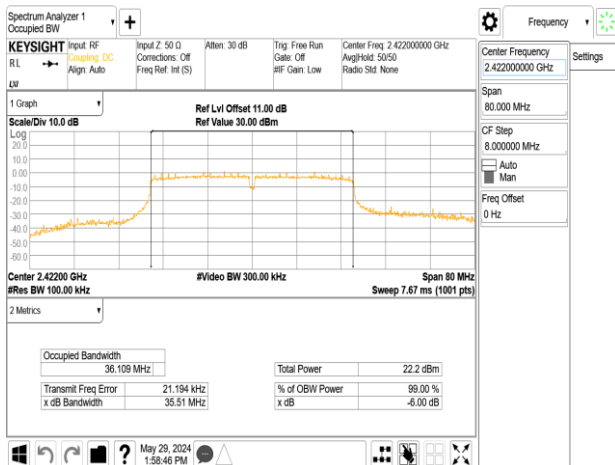


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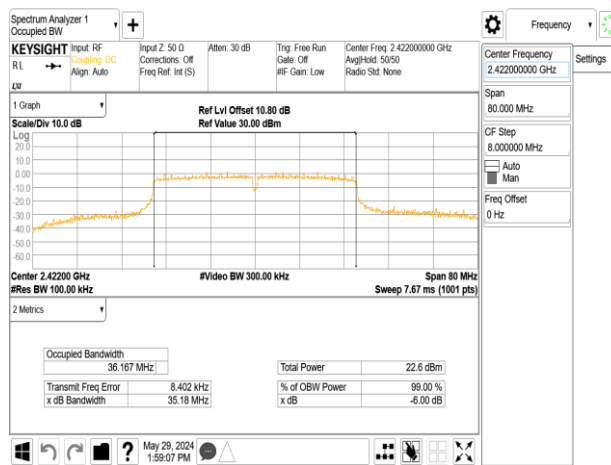
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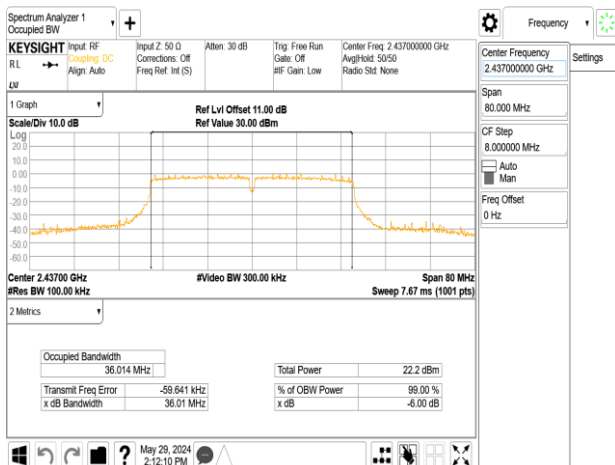
802.11n_40MHz_Chain0_2422MHz



802.11n_40MHz_Chain1_2422MHz



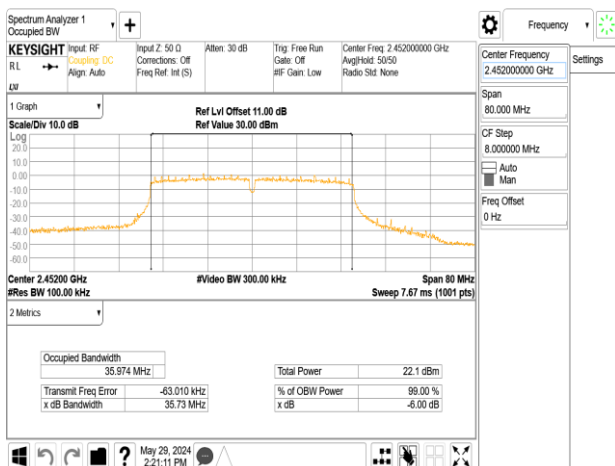
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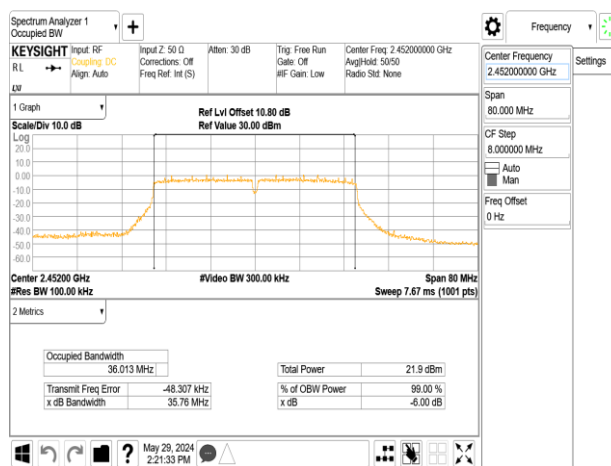
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

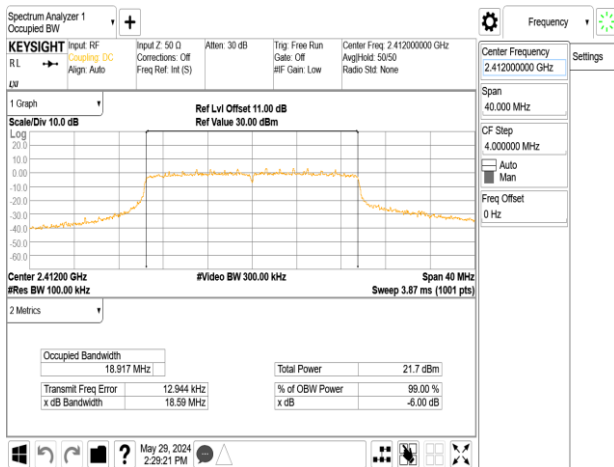


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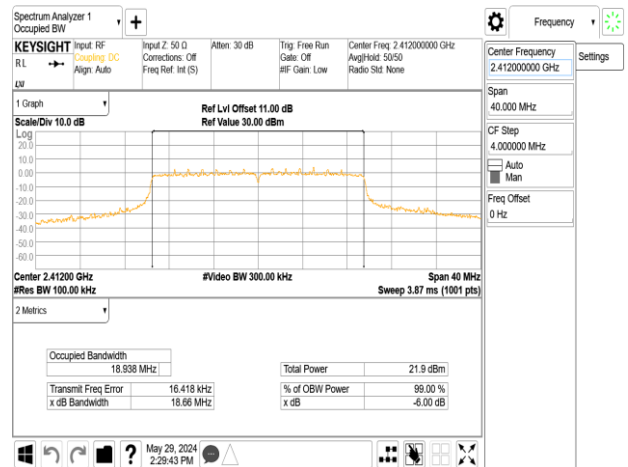
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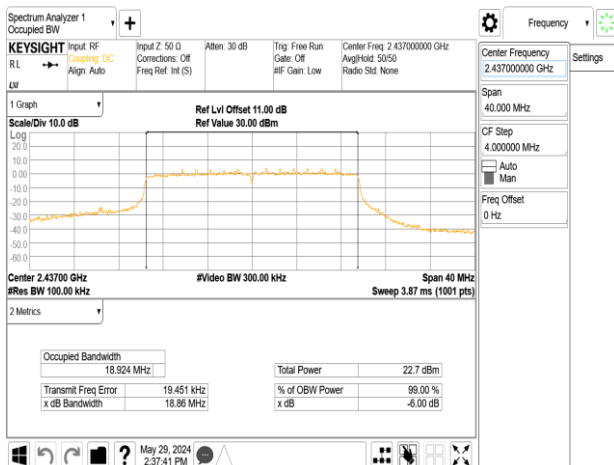
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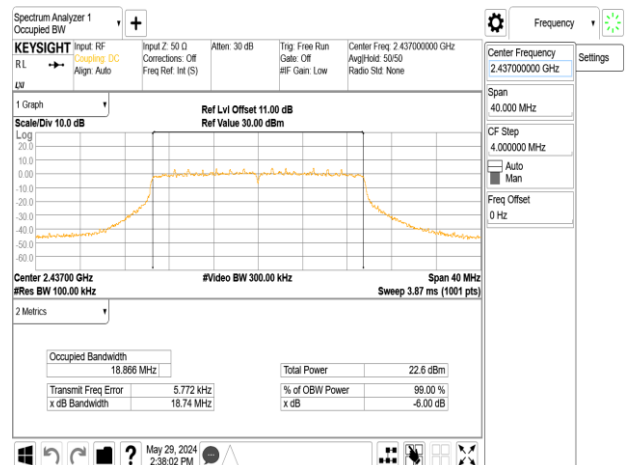
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802.11ax_20MHz_Chain0_2437MHz



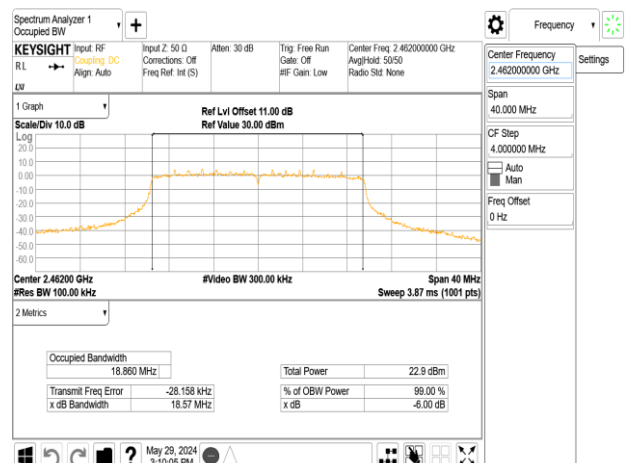
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802.11ax_20MHz_Chain0_2462MHz



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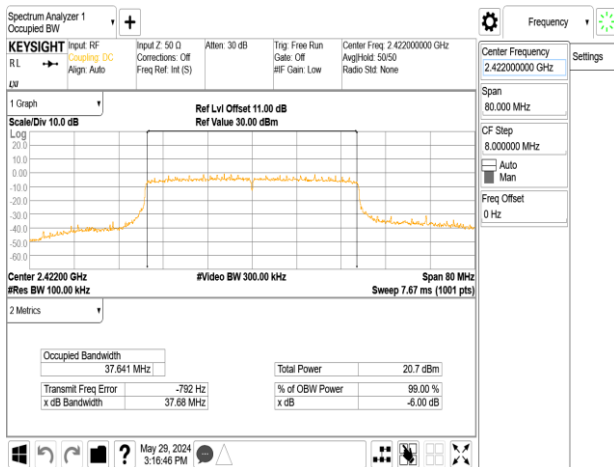


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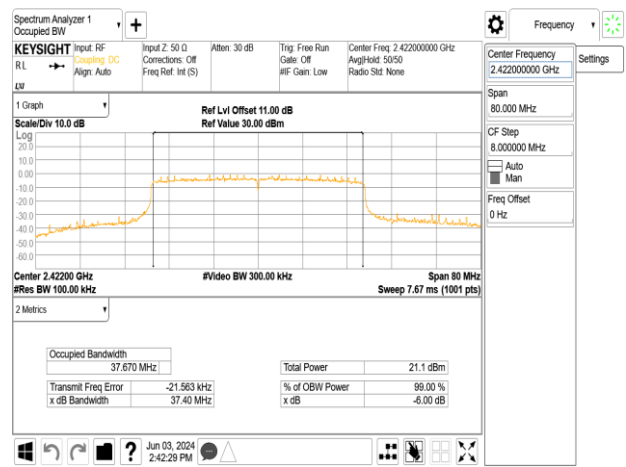
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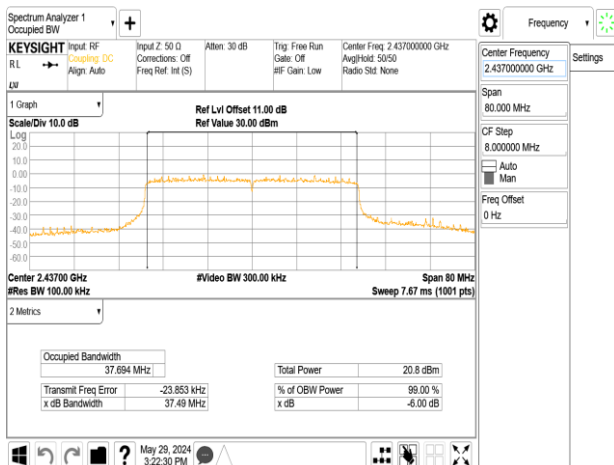
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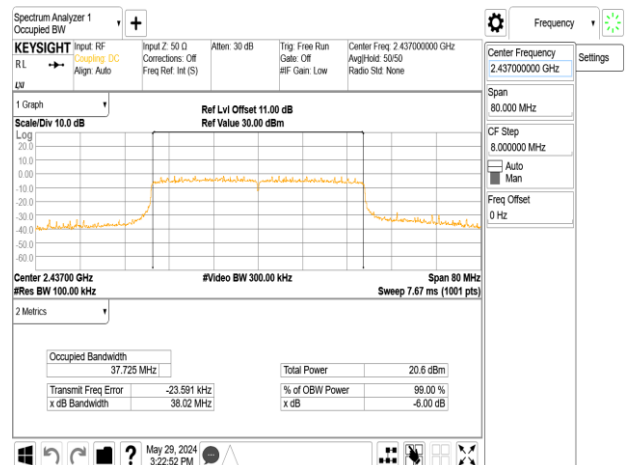
802.11ax_40MHz_Chain1_2422MHz



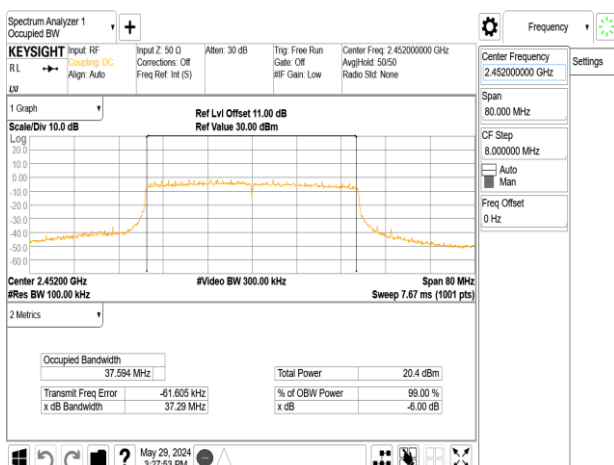
802.11ax_40MHz_Chain0_2437MHz



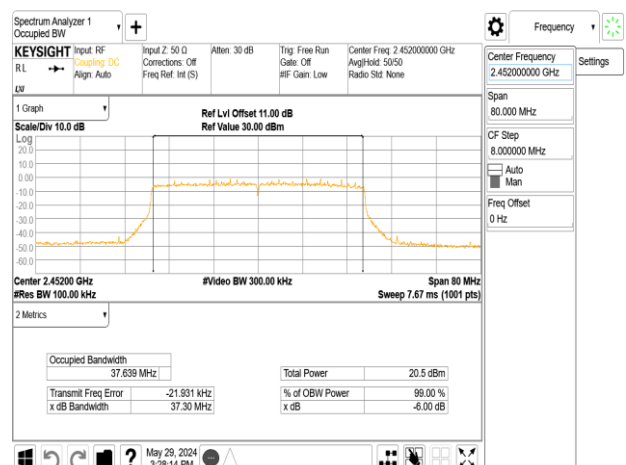
802.11ax_40MHz_Chain1_2437MHz



802.11ax_40MHz_Chain0_2452MHz



802.11ax_40MHz_Chain1_2452MHz



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9.4.2 99% Bandwidth

802.11b Ch1

Freq. (MHz)	99% BW (MHz)
2412	13.107
2437	13.085
2462	12.997

802.11n_HT40M Ch1

Freq. (MHz)	99% BW (MHz)
2422	36.177
2437	36.058
2452	36.025

802.11g Ch1

Freq. (MHz)	99% BW (MHz)
2412	16.533
2437	16.416
2462	16.417

802.11ax_HE20M Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2412	full	18.977
2437	full	18.991
2462	full	19.105

802.11n_HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.696
2437	17.666
2462	17.825

802.11ax_HE20M Ch1

Freq. (MHz)	RU Config	99% BW (MHz)
2412	full	18.993
2437	full	18.92
2462	full	18.901

802.11n_HT20M Ch1

Freq. (MHz)	99% BW (MHz)
2412	17.764
2437	17.604
2462	17.592

802.11ax_HE40M Ch0

Freq. (MHz)	RU Config	99% BW (MHz)
2422	full	37.705
2437	full	37.701
2452	full	37.636

802.11n_HT40M Ch0

Freq. (MHz)	99% BW (MHz)
2422	36.157
2437	36.047
2452	36.015

802.11ax_HE40M Ch1

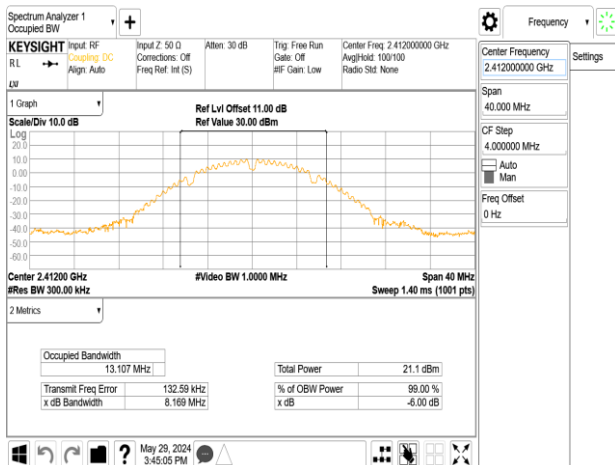
Freq. (MHz)	RU Config	99% BW (MHz)
2422	full	37.753
2437	full	37.816
2452	full	37.698

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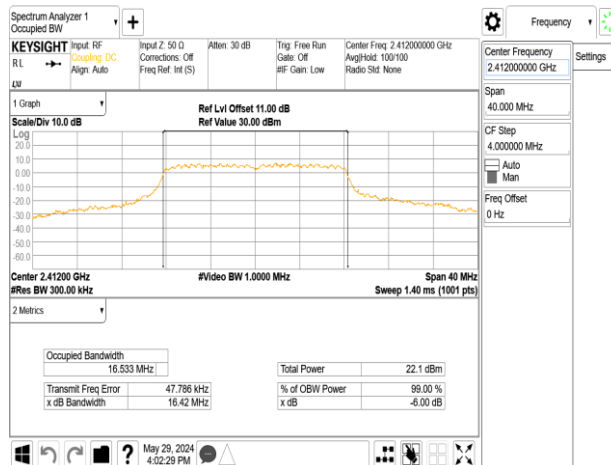
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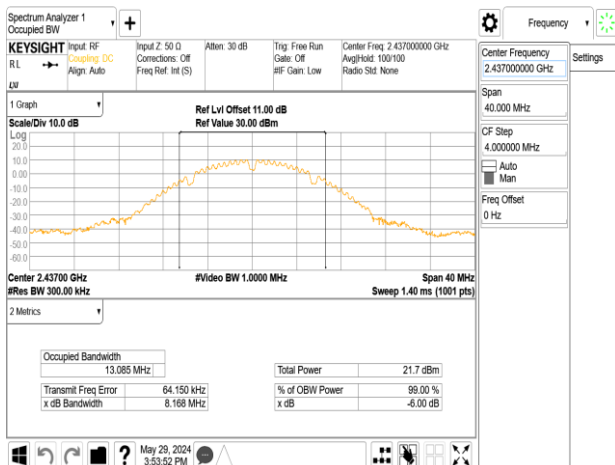
802.11b_20MHz_Chain1_2412MHz



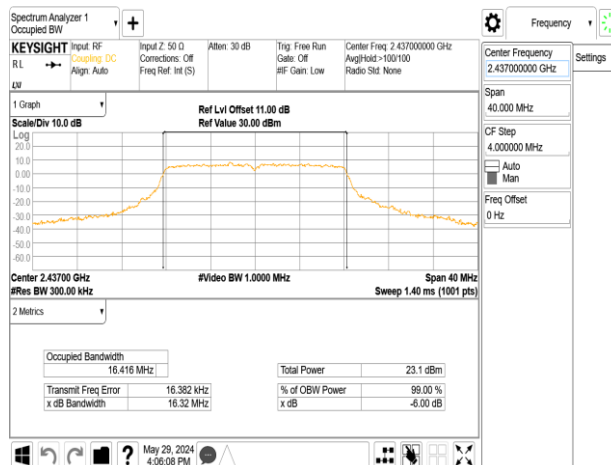
802.11g_20MHz_Chain1_2412MHz



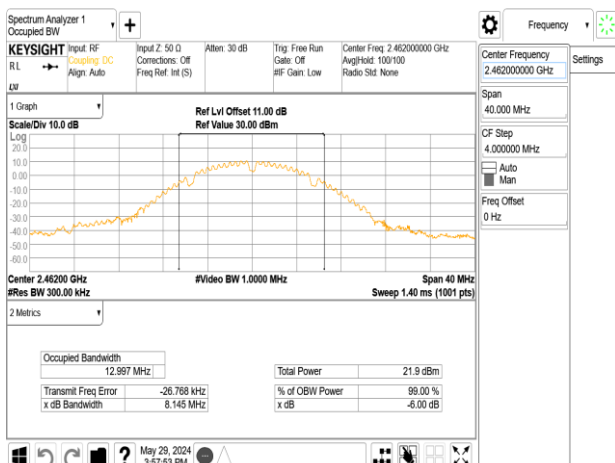
802.11b_20MHz_Chain1_2437MHz



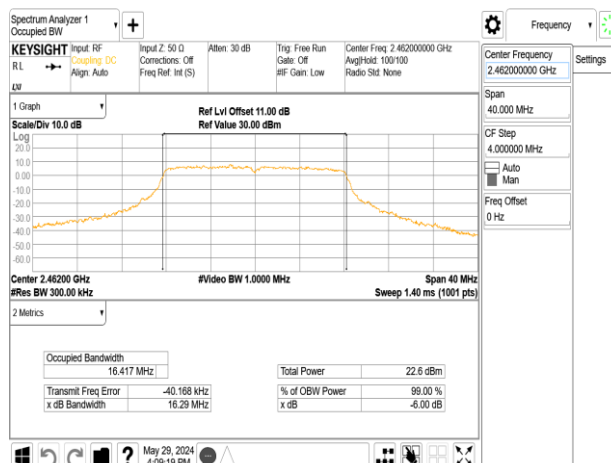
802.11g_20MHz_Chain1_2437MHz



802.11b_20MHz_Chain1_2462MHz



802.11g_20MHz_Chain1_2462MHz

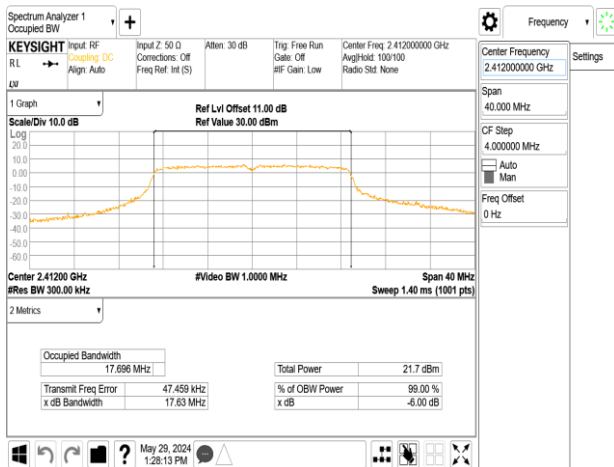


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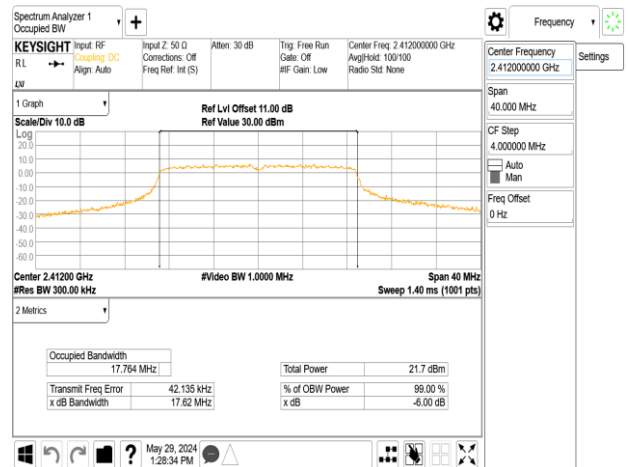
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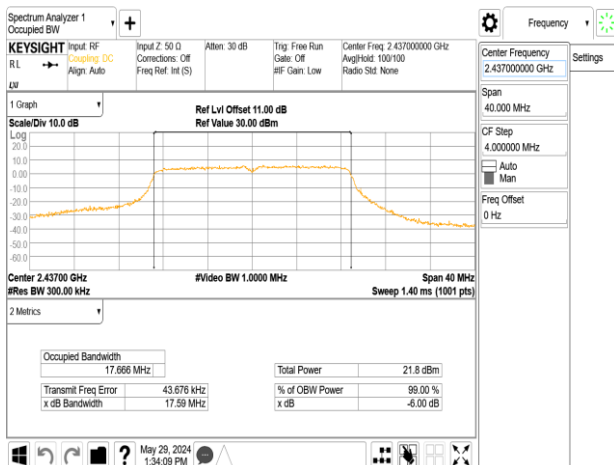
802.11n_20MHz_Chain0_2412MHz



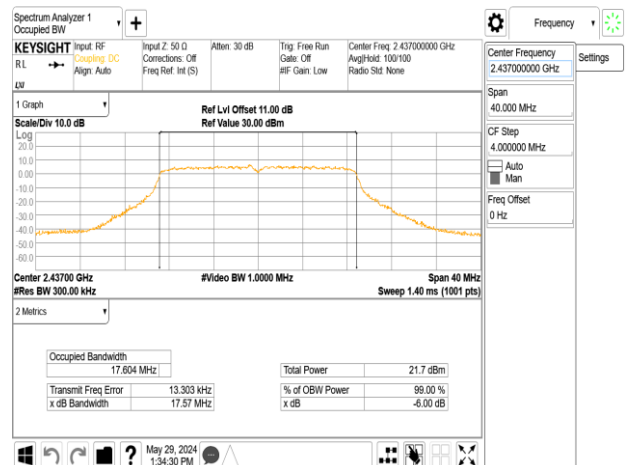
802.11n_20MHz_Chain1_2412MHz



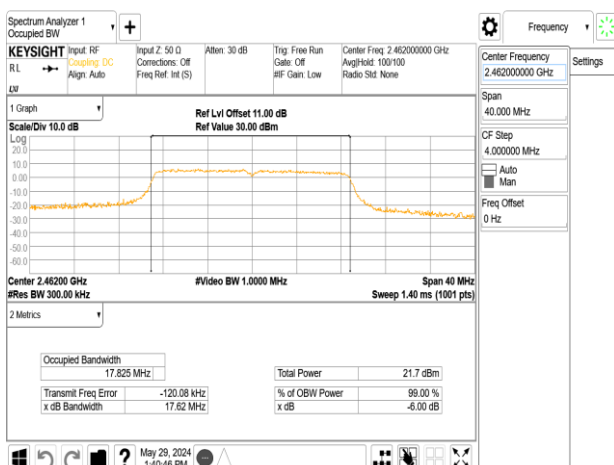
802.11n_20MHz_Chain0_2437MHz



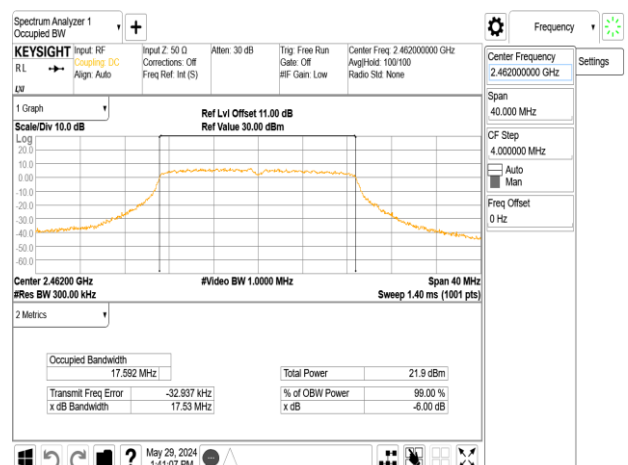
802.11n_20MHz_Chain1_2437MHz



802.11n_20MHz_Chain0_2462MHz



802.11n_20MHz_Chain1_2462MHz

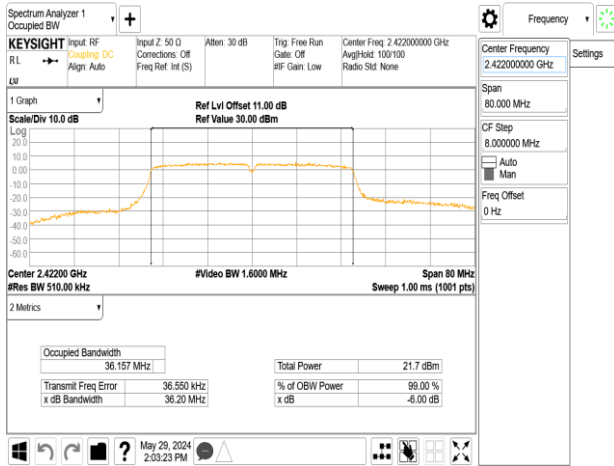


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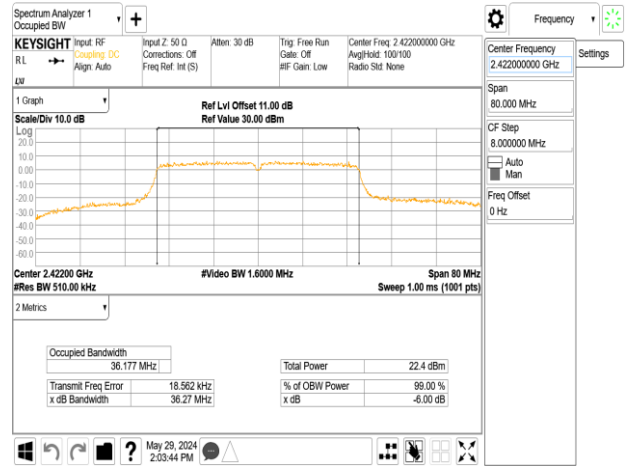
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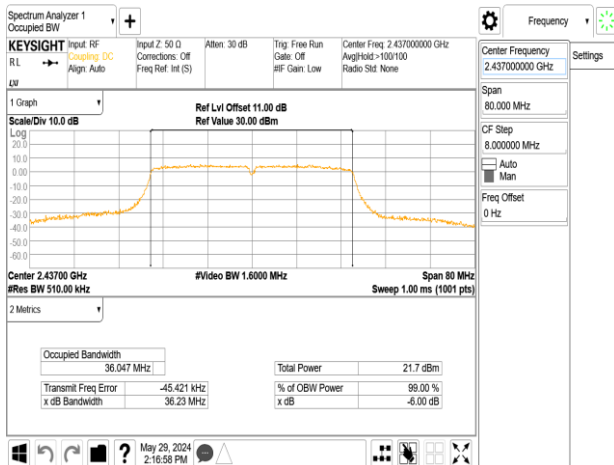
802.11n_40MHz_Chain0_2422MHz



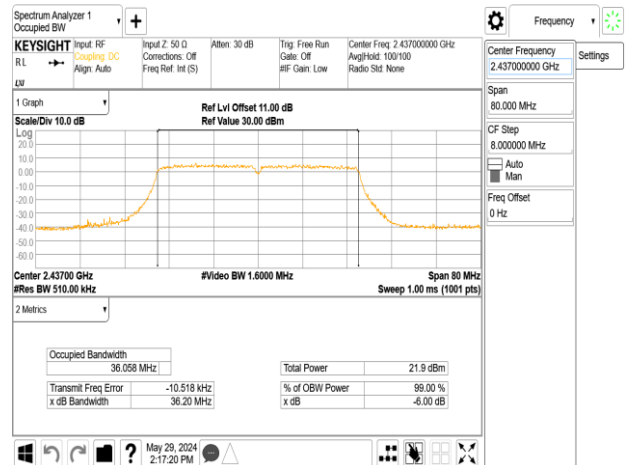
802.11n_40MHz_Chain1_2422MHz



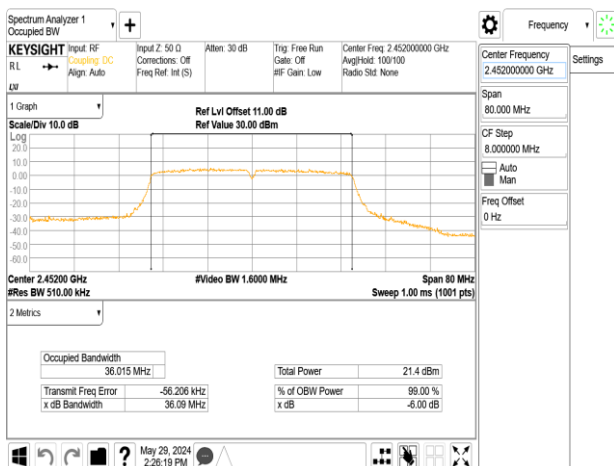
802.11n_40MHz_Chain0_2437MHz



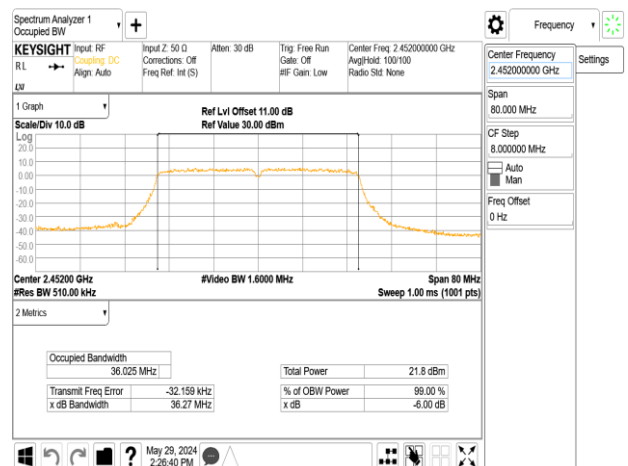
802.11n_40MHz_Chain1_2437MHz



802.11n_40MHz_Chain0_2452MHz



802.11n_40MHz_Chain1_2452MHz

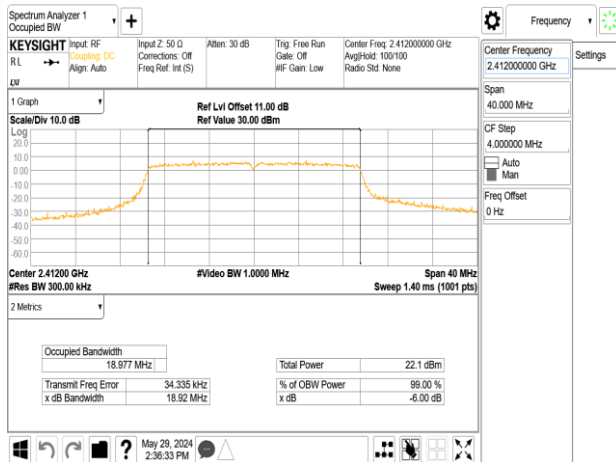


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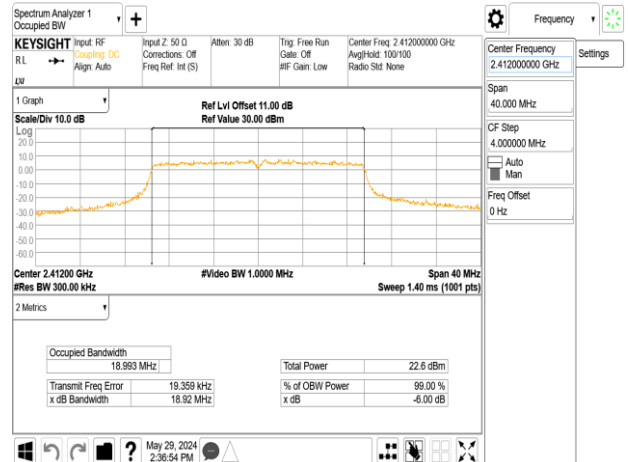
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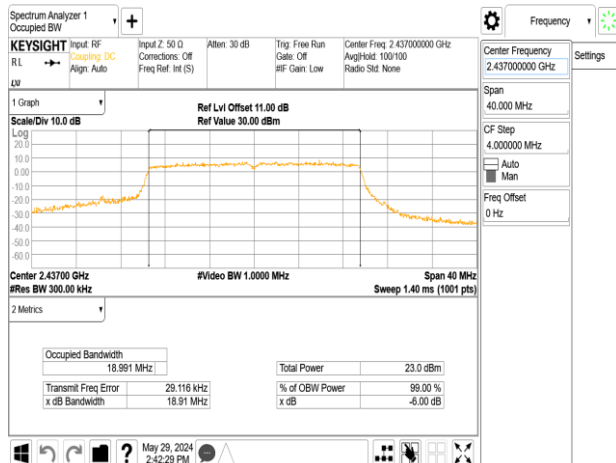
802.11ax_20MHz_Chain0_2412MHz



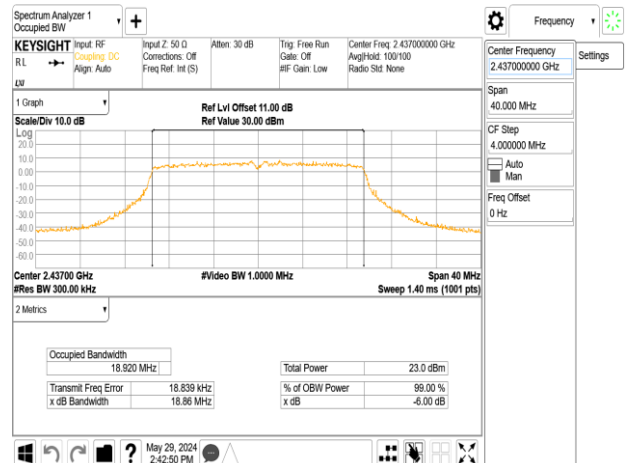
802.11ax_20MHz_Chain1_2412MHz



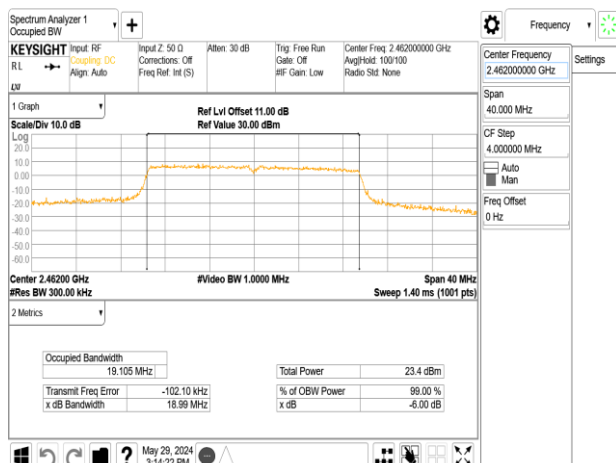
802.11ax_20MHz_Chain0_2437MHz



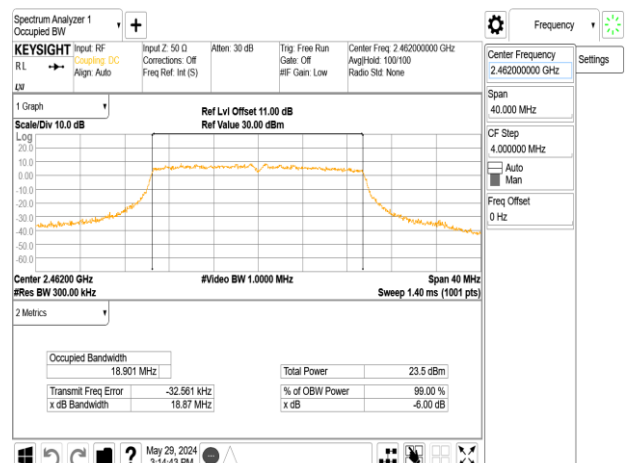
802.11ax_20MHz_Chain1_2437MHz



802.11ax_20MHz_Chain0_2462MHz



802.11ax_20MHz_Chain1_2462MHz



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