

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: LG Electronics USA, Inc.
111 Sylvan Avenue, North Building, Englewood Cliffs, New
Jersey 07632, United States

Product Name: Notebook Computer

Brand Name: LG or

Model No.: 16T90TP

Series Model: 16T90TP**, 16TD90TP**, 16TG90TP**, 16TB90TP**, 16TS90TP**
Remark "**" can be 0 to 9 or A to Z or dash or blank

Report Number: TERF2409002610ER

FCC ID BEJNT-16T90TP

Date of EUT Received: September 3, 2024

Date of Test: September 4, 2024~November 8, 2024

Issue Date: November 12, 2024

Approved By CHUN-CHIEH, CHEN
Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.40.

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
TERF2409002610ER	00	Original	October 22, 2024	Karen Huang	
TERF2409002610ER	01	Add measurement date of 802.11 ax mode	November 12, 2024	Karen Huang	*

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).

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	LG or  LG
Model No.:	16T90TP
Series Model:	16T90TP**, 16TD90TP**, 16TG90TP**, 16TB90TP**, 16TS90TP** Remark "*" can be 0 to 9 or A to Z or dash or blank
Model Difference:	For marketing purposes only
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	408PGVC937455, 408PGWR937497, 408PGCD937435
Power Supply:	15.52 Vdc from rechargeable battery or 5 / 9 / 15 / 20 Vdc from adapter
Test Software (Name/Version)	DRTU.06643.23.60.0

1.2 Modulation & Data Rate

Modulation type:	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11ax_HE20: up to 286.8 Mbps
	802.11ax_HE40: up to 573.6 Mbps
	802.11ax_HE80: up to 1201 Mbps
	802.11ax_HE160: up to 2402 Mbps
	802.11be_EHT20: up to 344.1 Mbps
	802.11be_EHT40: up to 688.2 Mbps
	802.11be_EHT80: up to 1441.2 Mbps
	802.11be_EHT160: up to 2882.4 Mbps
	802.11be_EHT320: up to 5764.8 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	NB Mode / TB Mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	AWAN	NB Mode	Main	AYF6Y-200008 (1415-0ADV000)	5925~6425	3.89
					6425~6525	0.60
					6525~6875	0.69
					6875~7125	0.69
		Aux	Aux	AYF6Y-200008 (1415-0ADV000)	5925~6425	3.88
					6425~6525	1.14
					6525~6875	2.07
					6875~7125	0.36
		TB Mode	Main	AYF6Y-200008 (1415-0ADV000)	5925~6425	3.46
					6425~6525	1.75
					6525~6875	0.58
					6875~7125	1.67
PIFA	INPAQ	NB Mode	Main	1415-0ADT000 (WA-F-LELE-04-003)	5925~6425	3.51
					6425~6525	0.54
					6525~6875	0.55
					6875~7125	0.51
		Aux	Aux	1415-0ADT000 (WA-F-LELE-04-003)	5925~6425	3.66
					6425~6525	1.13
					6525~6875	1.99
					6875~7125	0.34
		TB Mode	Main	1415-0ADT000 (WA-F-LELE-04-003)	5925~6425	3.39
					6425~6525	1.73
					6525~6875	0.55
					6875~7125	1.63
		Aux	Aux	1415-0ADT000 (WA-F-LELE-04-003)	5925~6425	1.08
					6425~6525	0.58
					6525~6875	-0.15
					6875~7125	-0.11

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.
3. Chain A = Aux antenna, Chain B = Main antenna.

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1.4 Rated Power

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11ax_HE20/ 802.11be_EHT20	5955~6415	24	9.87 dBm
	6435~6515	5	8.77 dBm
	6535~6875	18	9.60 dBm
	6895~7115	11	9.35 dBm
802.11ax_HE40/ 802.11be_EHT40	5965~6405	12	12.45 dBm
	6445~6525	3	11.95 dBm
	6565~6845	8	12.48 dBm
	6885~7085	6	11.46 dBm
802.11ax_HE80/ 802.11be_EHT80	5985~6385	6	15.09 dBm
	6465	1	13.94 dBm
	6545~6865	5	15.00 dBm
	6945~7025	2	14.51 dBm
802.11ax_HE160/ 802.11be_EHT160	6025~6345	3	17.37 dBm
	6505	1	12.95 dBm
	6665~6825	2	15.12 dBm
	6985	1	14.54 dBm
802.11be_EHT320	6105~6265	3	17.88 dBm
	6425	1	10.54 dBm
	6585~6745	2	15.15 dBm
	6905	1	14.35 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

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

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

1.7 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.

2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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2.4 Measurement Results Explanation Example

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

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

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

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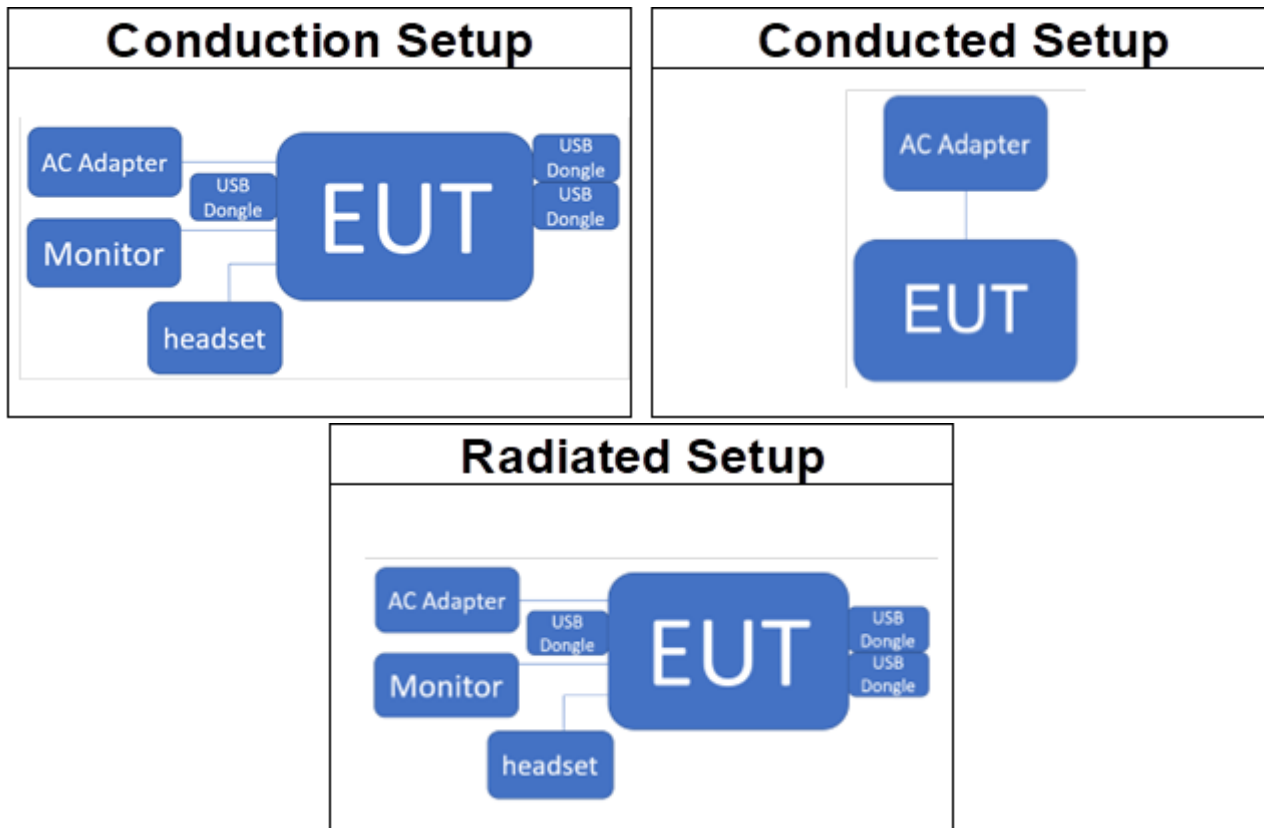
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2.5 Test Configuration



2.6 Control Unit(s)

2.6.1 Conduction setup

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A
Monitor	Dell	U2413f	CN-06VNX5-72872-34D-A6YL	N/A	N/A
Headset	Apple	A1472	N/A	N/A	N/A
USB Dongle	SanDisk	SDCZ600-032G	N/A	N/A	N/A
USB Dongle	SanDisk	SDDDC4	N/A	N/A	N/A
USB Dongle	TEAMGROUP	C175	N/A	N/A	N/A
HDMI Cable	Hotron	E246588	N/A	N/A	N/A

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2.6.2 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A

2.6.3 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A
Monitor	Dell	U2413f	CN-06VNX5-72872-34D-A6YL	N/A	N/A
Headset	Apple	A1472	N/A	N/A	N/A
USB Dongle	SanDisk	SDCZ600-032G	N/A	N/A	N/A
USB Dongle	SanDisk	SDDDC4	N/A	N/A	N/A
USB Dongle	TEAMGROUP	C175	N/A	N/A	N/A
HDMI Cable	Hotron	E246588	N/A	N/A	N/A

2.6.4 CBP Setup

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Access Point	Netgear	RS700	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(a)(11) §2.1049	Emission Bandwidth	Compliant
§15.407(a)(4~9)	Maximum Conducted Output Power	Compliant
§15.407(a)(4~9)	Power Spectral Density	Compliant
§15.407(b)(7),(11)	In-band emission	Compliant
§15.205 §15.209 §15.407(b)(6), (b)(8),(9),(10)	Undesirable Radiated Emissions	Compliant
§15.407(d)(6)	contention-based protocol	Compliant
§15.407(a)(7)(8)	Test Demonstration of Proper Power Adjustment based on Associated AP	NA Device only associates with indoor AP
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz

20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025
5	5975	53	6215	11	6005	23	6065	47	6185
9	5995	57	6235	19	6045	39	6145	79	6345
13	6015	61	6255	27	6085	55	6225		
17	6035	65	6275	35	6125	71	6305		
21	6055	69	6295	43	6165	87	6385		
25	6075	73	6315	51	6205				
29	6095	77	6335	59	6245				
33	6115	81	6355	67	6285				
37	6135	85	6375	75	6325				
41	6155	89	6395	83	6365				
45	6175	93	6415	91	6405				

UNII-6 6425~6525 MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
97	6435	99	6445	103	6465	111	6505
101	6455	107	6485				
105	6475	115	6525				
109	6495						
113	6515						

UNII-7 6525~6875 MHz

20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665
121	6555	157	6735	131	6605	135	6625	175	6825
125	6575	161	6755	139	6645	151	6705		
129	6595	165	6775	147	6685	167	6785		
133	6615	169	6795	155	6725	183	6865		
137	6635	173	6815	163	6765				
141	6655	177	6835	171	6805				
145	6675	181	6855	179	6845				
149	6695	185	6875						

UNII-8 6875~7125 MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
189	6895	187	6885	199	6945	207	6985
193	6915	195	6925	215	7025		
197	6935	203	6965				
201	6955	211	7005				
205	6975	219	7045				
209	6995	227	7085				
213	7015						
217	7035						
221	7055						
225	7075						
233	7115						

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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 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 a		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 n		Ch0		Ch1		Ch2		Ch3		1TX		2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3		1TX		2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 be	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX

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

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Chain A + Chain B
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	Chain A + Chain B
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/67	MCS0	Chain A + Chain B
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	MRU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	MCS0	Chain A + Chain B
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11be_EHT40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11be_EHT80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66 484+242MRU1, 484+242MRU2, 484+242MRU3, 484+242MRU4	MCS0	Chain A + Chain B
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/S67, 996+484MRU1, 996+484MRU2, 996+484MRU3, 996+484MRU4, 996+484+242MRU1, 996+484+242MRU2, 996+484+242MRU4, 996+484+242MRU5, 996+484+242MRU7, 996+484+242MRU8	MCS0	Chain A + Chain B
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				
802.11be_EHT320	6105~6265	31 to 63	31,63	OFDMA	FULL RU 2*996+484MRU2, 2*996+484MRU6, 2*996+484MRU7, 2*996+484MRU11, 3*996MRU1, 3*996MRU2, 3*996MRU3, 3*996MRU4, 3*996+484MRU1, 3*996+484MRU2, 3*996+484MRU3, 3*996+484MRU4, 3*996+484MRU7, 3*996+484MRU8	MCS0	Chain A + Chain B
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	45	OFDMA	MCS0		Chain A + Chain B
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	181				
	6895~7115	189 to 233	209				
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Chain A + Chain B
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	Chain A + Chain B
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/S67	MCS0	Chain A + Chain B
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	MCS0	Chain A + Chain B
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11be_EHT40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	Chain A + Chain B
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11be_EHT80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66 484+242 MRU1 484+242 MRU2 484+242 MRU3 484+242 MRU4	MCS0	Chain A + Chain B
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/S67 996+484 MRU1 996+484 MRU2 996+484 MRU3 996+484 MRU4 996+484+242 MRU1 996+484+242 MRU2 996+484+242 MRU4 996+484+242 MRU5 996+484+242 MRU7 996+484+242 MRU8	MCS0	Chain A + Chain B
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				
802.11be_EHT320	6105~6265	31 to 63	31,63	OFDMA	FULL RU 2*996+484 MRU2 2*996+484 MRU6 3*996 MRU1 3*996 MRU2 3*996 MRU3 3*996 MRU4 3*996+484 MRU1 3*996+484 MRU2 3*996+484 MRU3 3*996+484 MRU4 3*996+484 MRU7 3*996+484 MRU8	MCS0	Chain A + Chain B
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				

Note:

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 under TB mode, the worst case position was NB mode as reported.

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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 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
LISN	SCHWARZBECK	NSLK 8127	1041	10/26/2023	10/25/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	28	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/04/2024	06/03/2025
Power Meter	Anritsu	ML2496A	1804001	04/16/2024	04/15/2025
Power Sensor	Anritsu	MA2411B	1726104	04/16/2024	04/15/2025
Power Sensor	Anritsu	MA2411B	1726107	04/16/2024	04/15/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	Mini-Circuits	BLK-18-S+	4	12/12/2023	12/11/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/25/2024	06/24/2025
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/05/2024	03/04/2025
Manual Attenuator	HP	8494B	2812A17605+3308A 22470	12/12/2023	12/11/2024
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/05/2024	03/04/2025
Splitter	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-020	12/12/2023	12/11/2024
Splitter	RF-LAMBDA	RFLT4W1G18G	SPCD10-010	12/12/2023	12/11/2024
Splitter	Titan	T0510E4W118Q	22015177	12/12/2023	12/11/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.4 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
8.5G High Pass Filter	Titan	T04H85002500060S01	210519-2-7	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/12/2023	12/11/2024
Band Reject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/12/2023	12/11/2024
Band Reject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/12/2023	12/11/2024
Band Reject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000 +SUCOFLEX 104PEA +EMC107-SM-SM-1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	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 150 kHz to 30 MHz 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

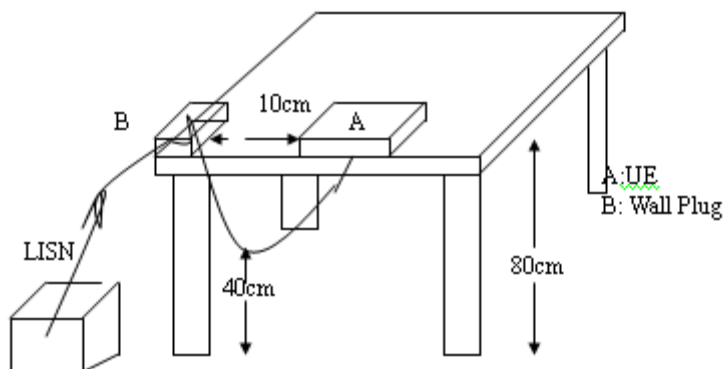
Note

- 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



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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 :TERF2409002610ER

Test Site :Conduction 1

Operation Mode :WLAN 6E

Test Date :2024-09-11

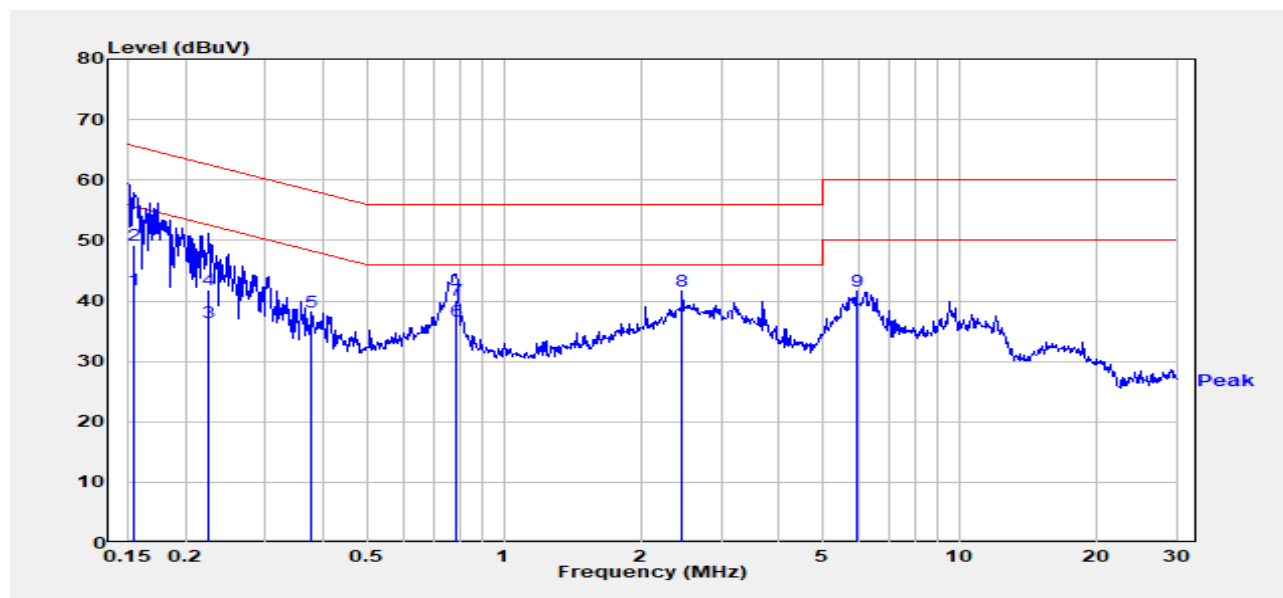
Power :120V/60Hz

Temp./Humi. :26.4°C/51%

Probe :L

Engineer :Nick Lin

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.154	Average	31.70	10.25	41.95	55.78	-13.83
0.154	QP	39.00	10.25	49.25	65.78	-16.53
0.226	Average	26.10	10.25	36.35	52.61	-16.26
0.226	QP	31.70	10.25	41.95	62.61	-20.66
0.379	Peak	27.92	10.25	38.17	58.30	-20.13
0.783	Average	26.40	10.32	36.72	46.00	-9.28
0.783	QP	29.80	10.32	40.12	56.00	-15.88
2.461	Peak	30.63	10.95	41.58	56.00	-14.42
5.961	Peak	31.00	10.57	41.57	60.00	-18.43

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Report Number :TERF2409002610ER

Operation Mode :WLAN 6E

Power :120V/60Hz

Probe :N

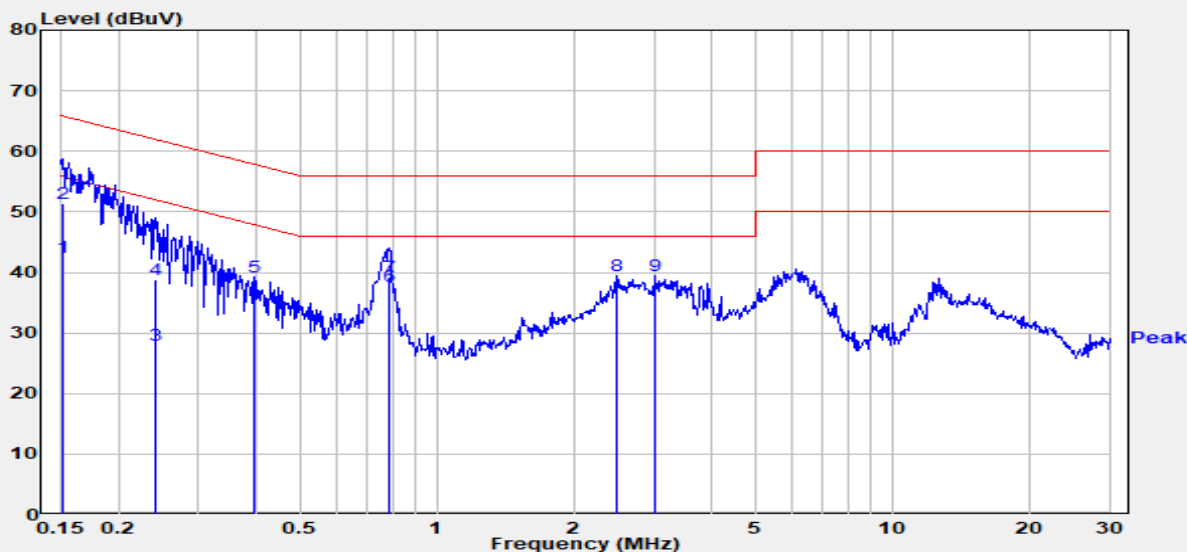
Note: :

Test Site :Conduction 1

Test Date :2024-09-11

Temp./Humi. :26.4°C/51%

Engineer :Nick Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.152	Average	32.20	10.25	42.45	55.91	-13.46
0.152	QP	41.10	10.25	51.35	65.91	-14.56
0.240	Average	17.70	10.25	27.95	52.08	-24.13
0.240	QP	28.60	10.25	38.85	62.08	-23.23
0.398	Peak	28.93	10.25	39.18	57.90	-18.72
0.783	Average	27.30	10.32	37.62	46.00	-8.38
0.783	QP	28.90	10.32	39.22	56.00	-16.78
2.474	Peak	28.54	10.96	39.50	56.00	-16.50
3.009	Peak	28.53	10.84	39.37	56.00	-16.63

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8 EMISSION BANDWIDTH

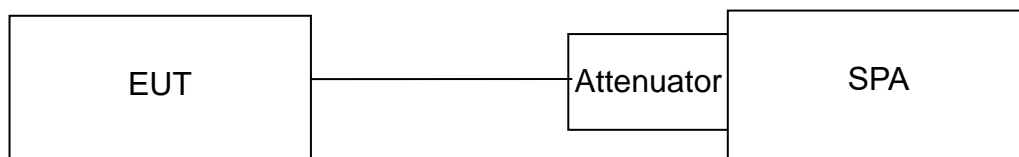
8.1 Standard Applicable

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as approximately 1% of emission BW Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is approximately 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. For 99% Bandwidth: Set the spectrum analyzer as
RBW=1% to 5% of the OBW,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all frequency of interest measured was complete.

8.3 Test Setup



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8.4 Measurement Result

8.4.1 Bandwidth

802.11ax_HE20_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	full	19.082	22.92
		26/0	18.499	19.79
		52/37	16.973	20.09
		106/53	17.821	19.49
45	6175	full	19.021	23.11
93	6415	full	19.055	23.58
		26/8	18.387	19.65
		52/40	17.118	18.01
		106/54	18.033	20.41
97	6435	full	19.022	23.56
		26/0	18.411	20.26
		52/37	18.028	20.21
		106/53	17.091	19.09
105	6475	full	18.957	22.57
113	6515	full	19.014	22.99
		26/8	18.030	19.24
		52/40	17.234	18.82
		106/54	17.209	20.71
117	6535	full	19.073	23.86
		26/0	17.380	18.92
		52/37	17.630	19.43
		106/53	17.440	19.35
149	6695	full	19.067	22.94
181	6855	full	19.080	22.62
		26/8	18.312	19.71
		52/40	17.540	20.24
		106/54	17.514	20.54
185	6875(U-NII 7)	full	9.584	11.45
185	6875(U-NII 8)	full	9.584	11.45
189	6895	full	19.019	23.61
		26/0	17.605	18.74
		52/37	17.408	20.72
		106/53	17.647	20.02
209	6995	full	19.025	23.01
233	7115	full	19.032	22.85
		26/8	18.208	19.75
		52/40	17.248	18.77
		106/54	17.538	19.12

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802.11ax_HE20_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	full	19.002	23.68
		26/0	16.897	18.37
		52/37	17.739	19.77
		106/53	16.569	18.26
45	6175	full	19.041	23.59
93	6415	full	18.997	23.54
		26/8	18.414	19.63
		52/40	18.268	19.44
		106/54	18.176	19.49
97	6435	full	19.039	22.88
		26/0	18.379	19.64
		52/37	17.863	19.42
		106/53	17.672	19.89
105	6475	full	19.064	23.69
113	6515	full	19.031	23.51
		26/8	17.921	19.70
		52/40	17.116	18.21
		106/54	18.038	19.43
117	6535	full	19.046	23.50
		26/0	18.550	19.71
		52/37	18.084	19.55
		106/53	18.126	19.75
149	6695	full	18.996	22.81
181	6855	full	19.056	23.29
		26/8	18.534	19.58
		52/40	17.531	19.19
		106/54	17.158	18.33
185	6875(U-NII 7)	full	9.518	11.76
185	6875(U-NII 8)	full	9.518	11.76
189	6895	full	19.047	23.69
		26/0	18.010	19.20
		52/37	18.097	19.45
		106/53	17.896	21.09
209	6995	full	19.021	23.78
233	7115	full	18.974	23.24
		26/8	18.026	19.50
		52/40	17.123	19.95
		106/54	17.988	19.66

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802.11ax_HE40_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	full	37.893	42.05
		242/61	18.811	20.72
43	6165	full	37.743	42.78
91	6405	full	37.777	42.83
		242/62	18.753	20.65
99	6445	full	37.699	41.80
		242/61	18.793	21.65
107	6485	full	37.732	42.93
		242/62	18.666	20.53
115	6525(U-NII 6)	full	18.936	20.76
115	6525(U-NII 7)	full	18.936	20.76
123	6565	full	37.662	41.43
		242/61	18.626	20.49
147	6685	full	37.807	43.98
179	6845	full	37.912	41.90
		242/62	18.738	21.36
187	6885(U-NII 7)	full	8.916	11.50
187	6885(U-NII 8)	full	28.916	31.50
195	6925	full	37.871	42.57
		242/61	18.866	24.04
211	7005	full	37.742	41.50
227	7085	full	37.745	43.70
		242/62	18.817	22.74

802.11ax_HE40_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	full	37.804	42.79
		242/61	18.790	20.62
43	6165	full	37.840	42.15
91	6405	full	37.740	41.81
		242/62	18.734	20.07
99	6445	full	37.832	42.48
		242/61	18.788	20.65
107	6485	full	37.844	42.90
		242/62	18.745	21.30
115	6525(U-NII 6)	full	18.867	21.04
115	6525(U-NII 7)	full	18.867	21.04
123	6565	full	37.745	42.49
		242/61	18.784	20.09
147	6685	full	37.774	43.00
179	6845	full	37.874	42.13
		242/62	18.770	20.47
187	6885(U-NII 7)	full	8.904	11.03
187	6885(U-NII 8)	full	28.904	31.03
195	6925	full	37.803	42.65
		242/61	18.769	22.50
211	7005	full	37.785	42.75
227	7085	full	37.913	41.27
		242/62	18.884	24.04

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802.11ax_HE80_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	full	77.349	84.89
		484/65	37.691	39.92
39	6145	full	77.287	84.13
87	6385	full	77.460	85.37
		484/66	37.836	40.21
103	6465	full	77.362	83.39
		484/65	37.660	40.84
		484/66	37.744	41.00
119	6545(U-NII 6)	full	18.698	23.75
119	6545(U-NII 7)	full	58.698	63.75
135	6625	full	77.829	85.95
		484/65	37.764	40.11
151	6705	full	77.577	84.88
167	6785	full	77.534	86.31
		484/66	37.805	40.22
183	6865(U-NII 7)	full	48.732	51.95
183	6865(U-NII 8)	full	28.732	31.95
199	6945	full	77.428	83.14
		484/66	37.603	40.83
215	7025	full	77.433	84.73
		484/66	37.961	42.39

802.11ax_HE80_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	full	77.544	85.87
		484/65	37.770	40.88
39	6145	full	77.437	82.81
87	6385	full	77.586	84.56
		484/66	37.749	40.79
103	6465	full	77.328	83.81
		484/65	37.752	40.29
		484/66	37.746	39.96
119	6545(U-NII 6)	full	18.730	21.73
119	6545(U-NII 7)	full	58.730	61.73
135	6625	full	77.447	84.82
		484/65	37.786	40.80
151	6705	full	77.297	83.08
167	6785	full	77.444	84.05
		484/66	37.792	40.06
183	6865(U-NII 7)	full	48.720	52.61
183	6865(U-NII 8)	full	28.720	32.61
199	6945	full	77.465	83.74
		484/66	37.650	41.83
215	7025	full	77.364	86.20
		484/66	37.828	41.88

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802.11ax_HE160_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	full	155.91	164.00
		996/67	77.33	81.54
47	6185	full	156.75	163.20
79	6345	full	156.67	164.50
		996/S67	77.289	81.60
111	6505(U-NII 6)	full	98.41	101.87
111	6505(U-NII 7)	full	58.41	61.87
143	6665	full	156.44	163.60
		996/67	77.444	81.16
		996/S67	77.455	82.18
175	6825(U-NII 7)	full	128.22	131.90
175	6825(U-NII 8)	full	28.22	31.90
207	6985	full	156.76	163.70
		996/67	77.49	82.19
		996/S67	77.256	84.25

802.11ax_HE160_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	full	156.85	164.90
		996/67	77.499	81.03
47	6185	full	156.58	163.70
79	6345	full	156.80	162.80
		996/S67	77.424	82.86
111	6505(U-NII 6)	full	98.43	102.25
111	6505(U-NII 7)	full	58.43	62.25
143	6665	full	156.50	165.30
		996/67	77.457	82.80
		996/S67	77.436	81.01
175	6825(U-NII 7)	full	128.45	132.68
175	6825(U-NII 8)	full	28.45	32.68
207	6985	full	156.65	163.90
		996/67	77.705	82.93
		996/S67	77.432	84.11

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802.11be_EHT20_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	full	19.012	23.57
		26/0	18.331	19.62
		52/37	18.251	20.13
		106/53	17.862	20.54
		52+26 MRU1	15.874	17.72
		106+26 MRU1	16.821	20.92
45	6175	full	19.085	23.02
93	6415	full	19.022	23.32
		26/8	18.205	19.32
		52/40	18.356	19.68
		106/54	17.015	18.69
		52+26 MRU3	16.240	17.96
		106+26 MRU2	17.331	21.40
97	6435	full	18.983	24.46
		26/0	17.786	19.12
		52/37	17.610	19.17
		106/53	17.093	18.67
		52+26 MRU1	15.511	19.09
		106+26 MRU1	17.844	19.34
105	6475	full	18.968	23.14
113	6515	full	19.013	22.79
		26/8	17.524	19.74
		52/40	17.863	20.10
		106/54	17.385	18.89
		52+26 MRU3	15.102	18.76
		106+26 MRU2	18.186	19.99
117	6535	full	19.001	24.11
		26/0	18.481	20.44
		52/37	17.121	18.63
		106/53	17.579	20.75
		52+26 MRU1	16.556	18.58
		106+26 MRU1	18.151	20.06
149	6695	full	19.059	23.57
181	6855	full	19.044	23.11
		26/8	17.461	20.12
		52/40	17.235	20.29
		106/54	17.027	21.27
		52+26 MRU3	17.013	18.59
		106+26 MRU2	18.040	20.98
185	6875(U-NII 7)	full	9.511	11.46
185	6875(U-NII 8)	full	9.511	11.46
189	6895	full	19.083	23.81
		26/0	18.725	20.58
		52/37	18.303	19.73
		106/53	16.740	18.15
		52+26 MRU1	16.680	20.22
		106+26 MRU1	17.319	20.73
209	6995	full	19.031	23.27
233	7115	full	18.992	23.86
		26/8	18.460	19.67
		52/40	17.222	21.43
		106/54	17.601	21.44
		52+26 MRU3	16.080	16.62
		106+26 MRU2	17.476	21.04

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802.11be_EHT20_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	full	19.009	23.22
		26/0	17.768	18.66
		52/37	17.546	18.92
		106/53	17.656	19.41
		52+26 MRU1	14.355	16.71
		106+26 MRU1	17.745	19.18
45	6175	full	18.994	23.89
93	6415	full	18.983	23.03
		26/8	17.886	19.55
		52/40	18.170	19.55
		106/54	17.876	19.83
		52+26 MRU3	16.581	18.44
		106+26 MRU2	17.838	20.15
97	6435	full	19.060	23.63
		26/0	17.334	18.39
		52/37	17.541	18.91
		106/53	18.127	19.30
		52+26 MRU1	15.880	18.23
		106+26 MRU1	17.539	18.94
105	6475	full	19.076	24.38
113	6515	full	19.022	23.17
		26/8	17.753	18.93
		52/40	17.505	19.27
		106/54	17.496	19.48
		52+26 MRU3	15.062	17.12
		106+26 MRU2	18.211	20.32
117	6535	full	19.030	23.99
		26/0	17.929	19.33
		52/37	17.795	19.59
		106/53	17.177	18.76
		52+26 MRU1	15.965	17.01
		106+26 MRU1	17.622	19.25
149	6695	full	18.982	23.75
181	6855	full	18.982	23.25
		26/8	18.075	19.61
		52/40	18.042	19.98
		106/54	17.420	20.59
		52+26 MRU3	16.374	17.66
		106+26 MRU2	17.955	19.13
185	6875(U-NII 7)	full	9.531	11.48
185	6875(U-NII 8)	full	9.531	11.48
189	6895	full	19.033	23.25
		26/0	16.844	18.32
		52/37	17.445	18.78
		106/53	18.081	19.57
		52+26 MRU1	17.411	19.55
		106+26 MRU1	17.782	21.42
209	6995	full	19.032	23.45
233	7115	full	18.983	23.66
		26/8	17.127	21.19
		52/40	17.319	21.73
		106/54	17.563	19.88
		52+26 MRU3	15.201	16.47
		106+26 MRU2	16.018	21.81

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802.11be_EHT40_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	full	37.924	42.62
		242/61	18.769	20.17
43	6165	full	37.761	42.50
91	6405	full	37.837	41.92
		242/62	18.769	20.87
99	6445	full	37.782	42.29
		242/61	18.809	20.52
107	6485	full	37.906	42.80
		242/62	18.690	21.46
115	6525(U-NII 6)	full	18.907	20.74
115	6525(U-NII 7)	full	18.907	20.74
123	6565	full	37.843	42.11
		242/61	18.838	20.75
147	6685	full	37.776	42.87
179	6845	full	37.744	42.83
		242/62	18.753	20.62
187	6885(U-NII 7)	full	8.917	11.10
187	6885(U-NII 8)	full	28.917	31.10
195	6925	full	37.809	42.31
		242/61	18.819	23.52
211	7005	full	37.855	42.14
227	7085	full	37.774	42.82
		242/62	18.785	22.14

802.11be_EHT40_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	full	37.816	44.16
		242/61	18.741	20.75
43	6165	full	37.916	43.87
91	6405	full	37.826	41.56
		242/62	18.738	21.31
99	6445	full	37.838	41.67
		242/61	18.723	20.69
107	6485	full	37.840	42.14
		242/62	18.714	20.57
115	6525(U-NII 6)	full	18.926	21.42
115	6525(U-NII 7)	full	18.926	21.42
123	6565	full	37.909	42.38
		242/61	18.737	20.96
147	6685	full	37.826	42.00
179	6845	full	37.814	41.11
		242/62	18.740	20.48
187	6885(U-NII 7)	full	8.888	10.96
187	6885(U-NII 8)	full	28.888	30.96
195	6925	full	37.824	42.24
		242/61	18.835	22.92
211	7005	full	37.840	41.38
227	7085	full	37.867	41.71
		242/62	18.840	23.50

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802.11be_EHT80_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	full	77.385	85.50
		484/65	37.769	40.33
		484+242 MRU2	77.631	82.25
		484+242 MRU4	58.629	65.57
39	6145	full	77.300	83.47
87	6385	full	77.561	84.98
		484/66	37.766	40.20
		484+242 MRU1	58.448	69.08
		484+242 MRU3	77.631	82.85
103	6465	full	77.325	83.17
		484/65	37.792	40.43
		484/66	37.885	39.96
		484+242 MRU2	77.680	82.96
		484+242 MRU4	58.435	62.54
		484+242 MRU1	58.633	72.68
		484+242 MRU3	77.709	83.11
119	6545(U-NII 6)	full	18.699	22.27
119	6545(U-NII 7)	full	58.699	62.27
135	6625	full	77.514	86.89
		484/65	37.809	40.56
		484+242 MRU2	77.706	83.76
		484+242 MRU4	58.550	65.68
151	6705	full	77.463	83.55
167	6785	full	77.421	83.59
		484/66	37.823	40.08
		484+242 MRU1	58.479	72.06
		484+242 MRU3	77.811	82.35
183	6865(U-NII 7)	full	48.661	51.84
183	6865(U-NII 8)	full	28.661	31.84
199	6945	full	77.352	85.34
		484/65	37.701	41.06
		484+242 MRU2	77.681	83.74
		484+242 MRU4	58.532	64.49
215	7025	full	77.415	84.15
		484/66	37.844	42.43
		484+242 MRU1	58.588	73.21
		484+242 MRU3	77.788	83.31

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802.11be_EHT80_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	full	77.347	84.82
		484/65	37.978	40.34
		484+242 MRU2	77.717	82.57
		484+242 MRU4	58.397	63.19
39	6145	full	77.420	84.05
87	6385	full	77.451	82.83
		484/66	37.669	40.20
		484+242 MRU1	58.470	69.98
		484+242 MRU3	77.752	82.71
103	6465	full	77.346	83.41
		484/65	37.695	40.56
		484/66	37.692	40.29
		484+242 MRU2	77.692	83.04
		484+242 MRU4	58.356	62.14
		484+242 MRU1	58.612	74.48
		484+242 MRU3	77.519	81.30
119	6545(U-NII 6)	full	18.788	22.28
119	6545(U-NII 7)	full	58.788	62.28
135	6625	full	77.673	87.55
		484/65	37.835	40.22
		484+242 MRU2	77.714	83.12
		484+242 MRU4	58.481	63.15
151	6705	full	77.216	82.90
167	6785	full	77.637	83.52
		484/66	37.813	40.15
		484+242 MRU1	58.541	72.72
		484+242 MRU3	77.810	82.14
183	6865(U-NII 7)	full	48.692	52.88
183	6865(U-NII 8)	full	28.692	32.88
199	6945	full	77.473	85.43
		484/65	37.647	43.88
		484+242 MRU2	77.722	82.65
		484+242 MRU4	58.459	62.62
215	7025	full	77.325	84.36
		484/66	37.893	41.94
		484+242 MRU1	58.364	74.19
		484+242 MRU3	77.766	83.13

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802.11be_EHT160_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	full	156.27	162.90
		996/67	77.27	80.72
		996+484 MRU2	156.93	162.60
		996+484 MRU4	116.93	123.50
		996+484+242 MRU2	156.47	162.60
		996+484+242 MRU4	156.36	165.50
		996+484+242 MRU8	137.16	146.10
47	6185	full	156.31	164.60
79	6345	full	156.95	165.20
		996/S67	77.44	82.34
		996+484 MRU1	116.96	122.50
		996+484 MRU3	157.12	166.30
		996+484+242 MRU1	137.45	145.50
		996+484+242 MRU5	156.82	165.90
		996+484+242 MRU7	156.80	164.30
111	6505(U-NII 6)	full	98.482	101.98
111	6505(U-NII 7)	full	58.48	61.98
143	6665	full	156.21	163.7
		996/67	77.56	80.65
		996/S67	77.14	81.09
		996+484 MRU2	157.14	163.20
		996+484 MRU4	117.14	123.70
		996+484+242 MRU2	156.77	165.30
		996+484+242 MRU4	157.17	163.40
		996+484+242 MRU8	137.43	146.10
		996+484 MRU1	117.34	126.70
		996+484 MRU3	156.77	162.00
		996+484+242 MRU1	137.42	146.40
		996+484+242 MRU5	156.47	163.30
		996+484+242 MRU7	156.61	165.20
175	6825(U-NII 7)	full	128.32	132.31
175	6825(U-NII 8)	full	28.32	32.31
207	6985	full	156.42	166.30
		996/67	77.597	81.25
		996/S67	77.505	81.90
		996+484 MRU2	157.24	163.60
		996+484 MRU4	116.94	121.90
		996+484+242 MRU2	156.98	164.90
		996+484+242 MRU4	156.92	163.60
		996+484+242 MRU8	137.82	145.90
		996+484 MRU1	117.07	123.60
		996+484 MRU3	157.30	165.40
		996+484+242 MRU1	137.49	144.50
		996+484+242 MRU5	156.91	163.90
		996+484+242 MRU7	157.19	164.60

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802.11be_EHT160_ChB

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	full	156.28	164.10
		996/67	77.168	80.20
		996+484 MRU2	157.04	164.50
		996+484 MRU4	117.05	122.30
		996+484+242 MRU2	156.78	163.40
		996+484+242 MRU4	156.40	164.40
		996+484+242 MRU8	137.39	144.90
47	6185	full	156.83	165.00
79	6345	full	157.08	163.00
		996/S67	77.44	81.21
		996+484 MRU1	117.28	122.40
		996+484 MRU3	157.20	164.20
		996+484+242 MRU1	137.69	143.90
		996+484+242 MRU5	156.92	164.00
		996+484+242 MRU7	157.00	163.10
111	6505(U-NII 6)	full	98.486	102.08
111	6505(U-NII 7)	full	58.49	62.08
143	6665	full	156.64	162.80
		996/67	77.61	80.63
		996/S67	77.29	82.78
		996+484 MRU2	156.99	161.80
		996+484 MRU4	116.99	123.50
		996+484+242 MRU2	157.04	165.30
		996+484+242 MRU4	156.91	163.20
		996+484+242 MRU8	137.57	144.60
		996+484 MRU1	116.86	125.50
		996+484 MRU3	157.32	163.60
		996+484+242 MRU1	137.60	145.30
		996+484+242 MRU5	156.70	163.20
		996+484+242 MRU7	156.97	163.90
175	6825(U-NII 7)	full	128.28	131.88
175	6825(U-NII 8)	full	28.28	31.88
207	6985	full	156.41	163.30
		996/67	77.469	80.90
		996/S67	77.222	81.84
		996+484 MRU2	157.01	162.20
		996+484 MRU4	117.09	124.00
		996+484+242 MRU2	157.02	164.50
		996+484+242 MRU4	156.66	162.80
		996+484+242 MRU8	137.81	145.50
		996+484 MRU1	117.06	123.90
		996+484 MRU3	156.82	164.10
		996+484+242 MRU1	137.59	145.70
		996+484+242 MRU5	156.65	162.40
		996+484+242 MRU7	156.99	163.00

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802.11be_EHT320_ChA

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
31	6105	full	312.61	327.10
		2*996+484 MRU2	236.88	300.30
		2*996+484 MRU6	197.02	297.40
		3*996 MRU2	316.31	327.30
		3*996 MRU4	236.09	344.60
		3*996+484 MRU2	315.43	322.00
		3*996+484 MRU8	274.75	289.60
63	6265	Full	311.99	328.30
		2*996+484 MRU7	196.27	208.30
		2*996+484 MRU11	237.08	296.20
		3*996 MRU1	236.02	265.10
		3*996 MRU3	315.90	330.20
		3*996+484 MRU1	275.16	289.10
		3*996+484 MRU7	315.33	328.20
95	6425(U-NII 5)	full	156.35	163.66
95	6425(U-NII 6)	full	100.00	100.00
95	6425(U-NII 7)	full	56.09	63.08
127	6585(U-NII 6)	full	95.83	105.45
127	6585(U-NII 7)	full	215.83	225.45
159	6745(U-NII 7)	full	286.97	294.47
159	6745(U-NII 8)	full	26.97	34.47
191	6905(U-NII 7)	full	125.66	133.81
191	6905(U-NII 8)	full	185.66	193.81
191	6905	3*996 MRU1	235.63	293.20
		3*996 MRU4	235.68	247.60
		3*996+484 MRU1	274.16	289.20
		3*996+484 MRU2	314.62	331.10
		3*996+484 MRU3	314.30	328.60
		3*996+484 MRU4	3149.99	327.40

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CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
31	6105	full	312.79	331.50
		2*996+484 MRU2	236.46	249.00
		2*996+484 MRU6	197.11	296.80
		3*996 MRU2	315.56	327.90
		3*996 MRU4	235.78	395.80
		3*996+484 MRU2	315.46	328.40
		3*996+484 MRU8	274.63	292.90
63	6265	Full	312.82	327.50
		2*996+484 MRU7	196.37	209.90
		2*996+484 MRU11	237.11	299.30
		3*996 MRU1	236.10	256.80
		3*996 MRU3	316.44	327.30
		3*996+484 MRU1	276.11	289.30
		3*996+484 MRU7	315.10	327.20
95	6425(U-NII 5)	full	156.34	165.30
95	6425(U-NII 6)	full	100.00	100.00
95	6425(U-NII 7)	full	56.12	63.16
127	6585(U-NII 6)	full	96.46	104.60
127	6585(U-NII 7)	full	216.46	224.60
159	6745(U-NII 7)	full	286.84	293.69
159	6745(U-NII 8)	full	26.84	33.69
191	6905(U-NII 7)	full	125.74	135.34
191	6905(U-NII 8)	full	185.74	195.34
191	6905	3*996 MRU1	235.69	256.50
		3*996 MRU4	236.08	263.20
		3*996+484 MRU1	274.53	290.60
		3*996+484 MRU2	314.65	328.00
		3*996+484 MRU3	3148.84	328.00
		3*996+484 MRU4	314.89	328.00

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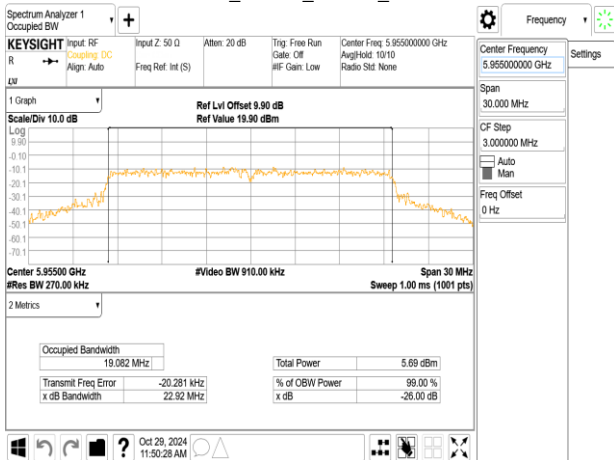
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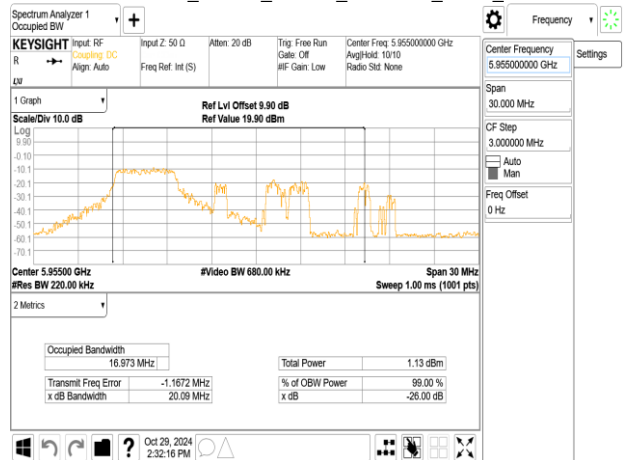
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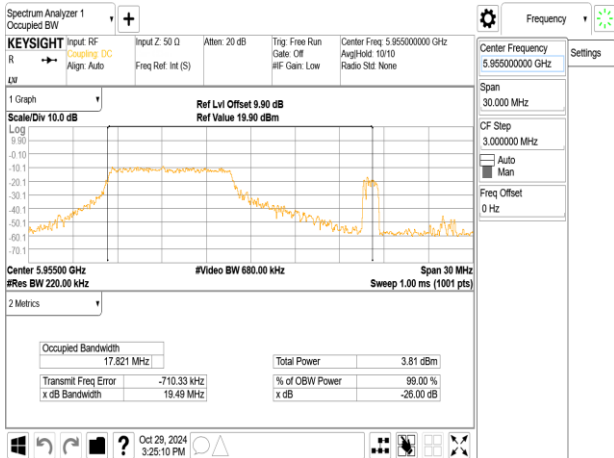
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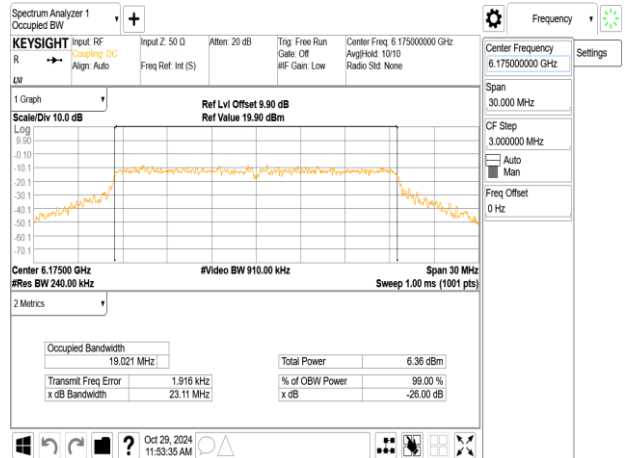
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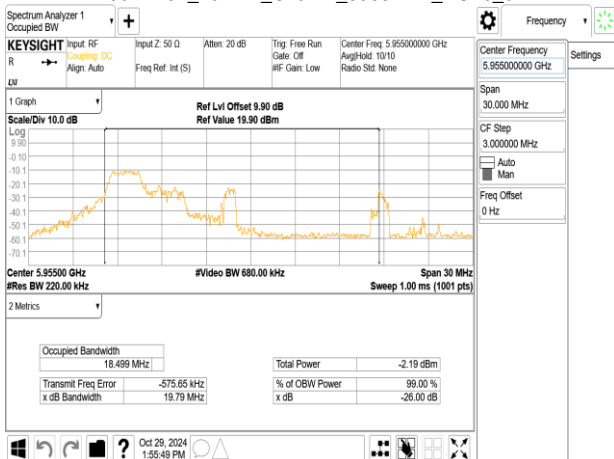
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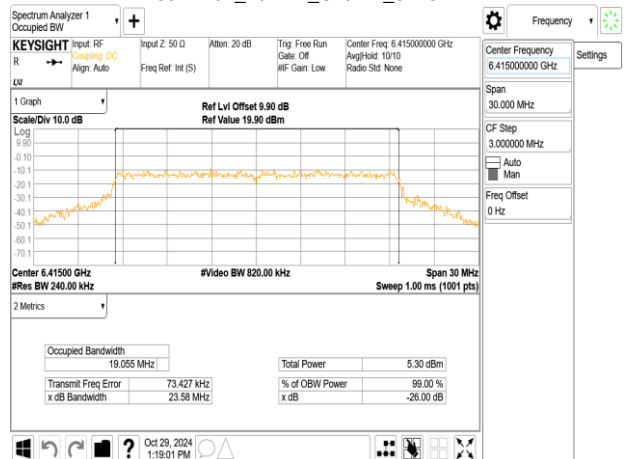
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802.11ax_20MHz_ChainA_5955MHz_RU26_0



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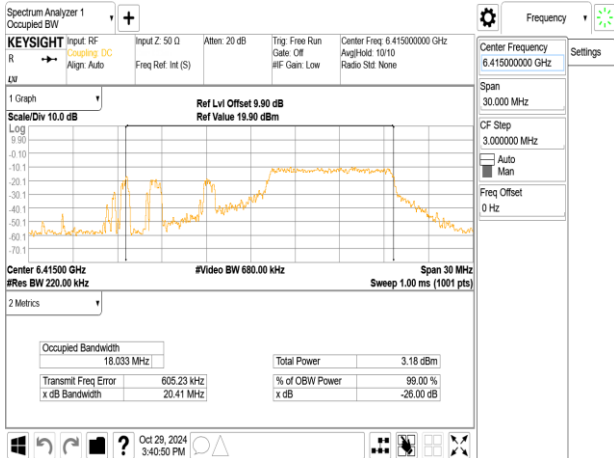


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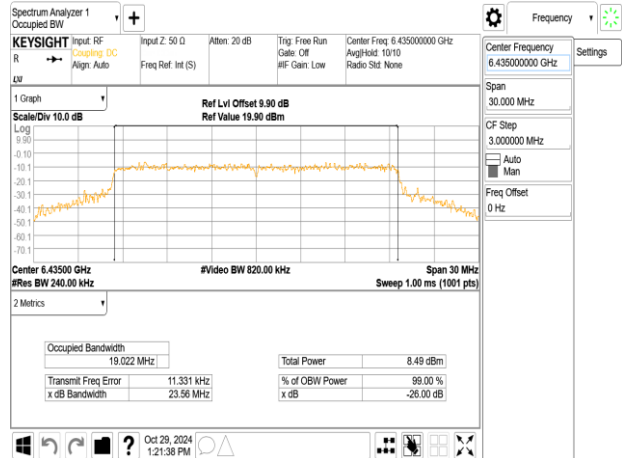
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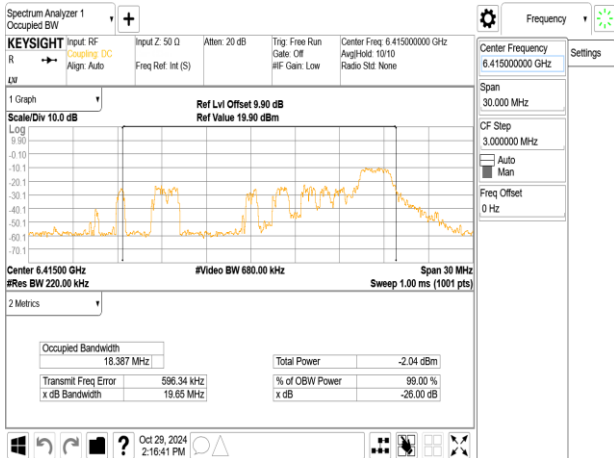
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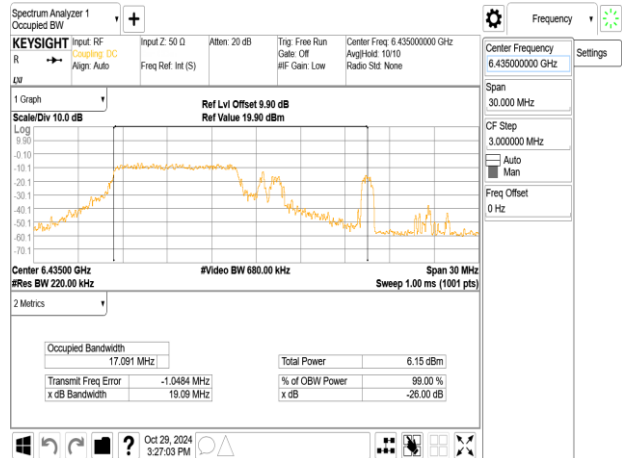
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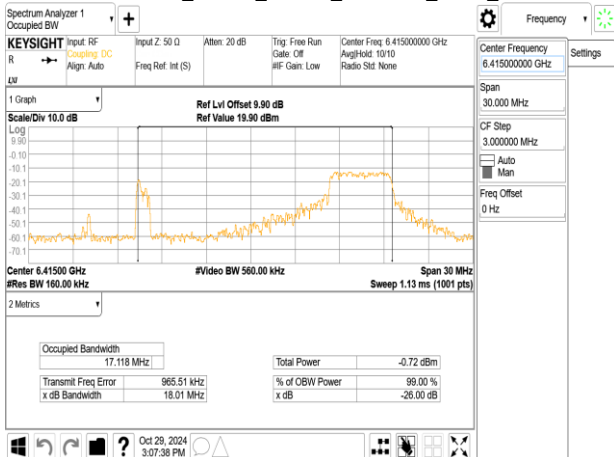
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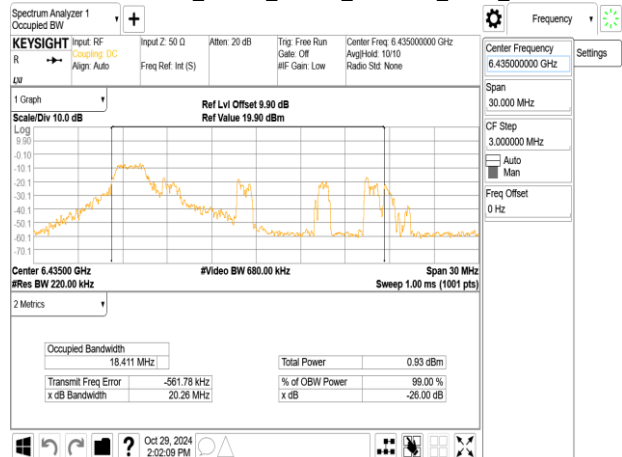
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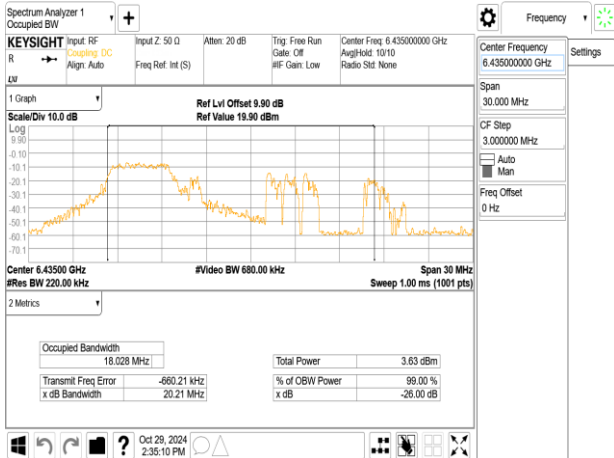


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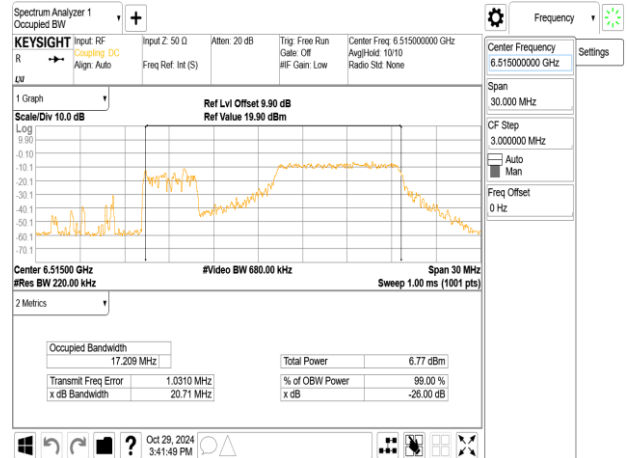
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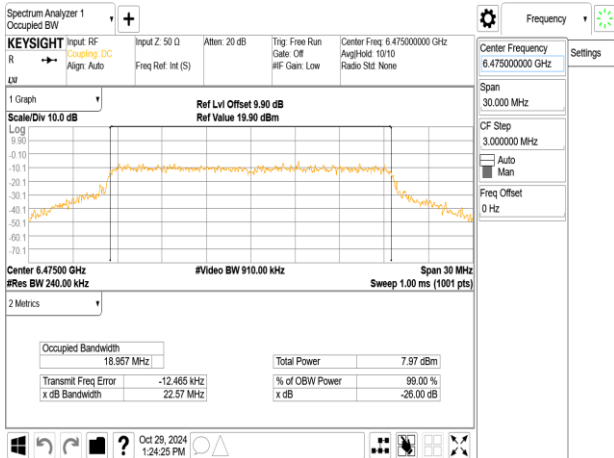
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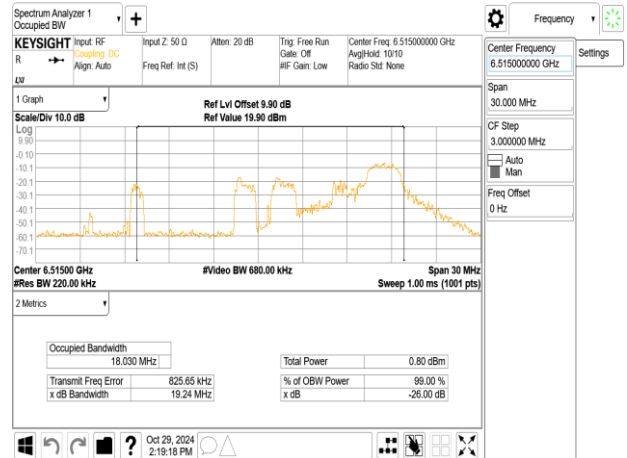
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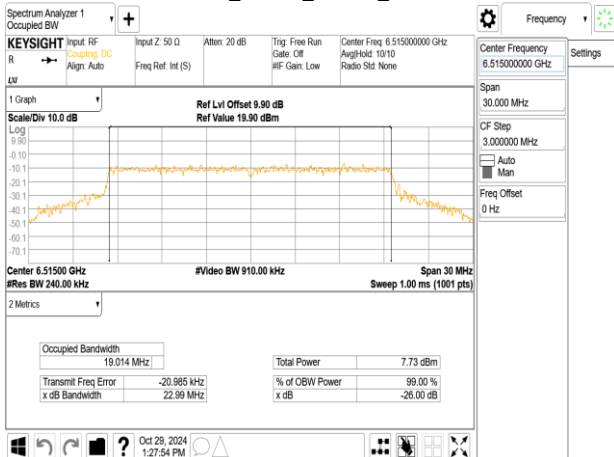
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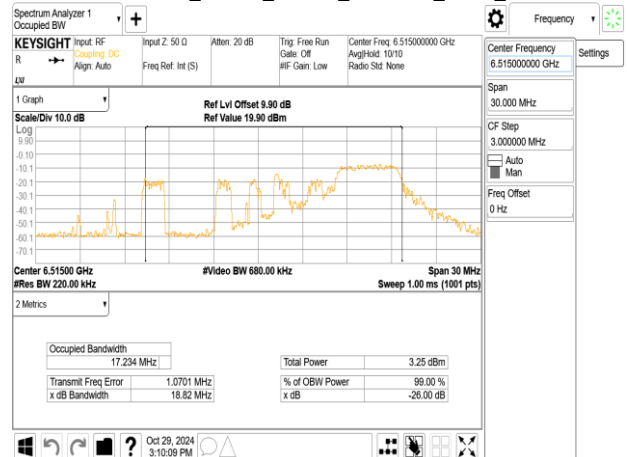
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802.11ax_20MHz_ChainA_6515MHz



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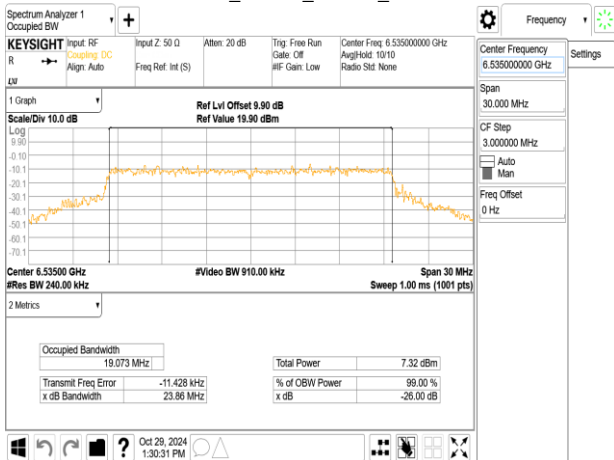


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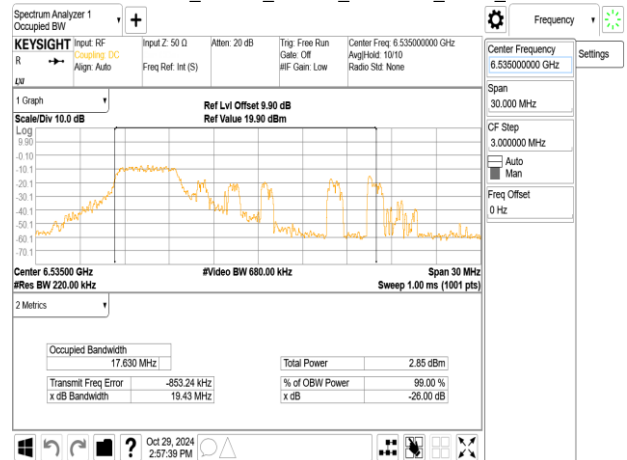
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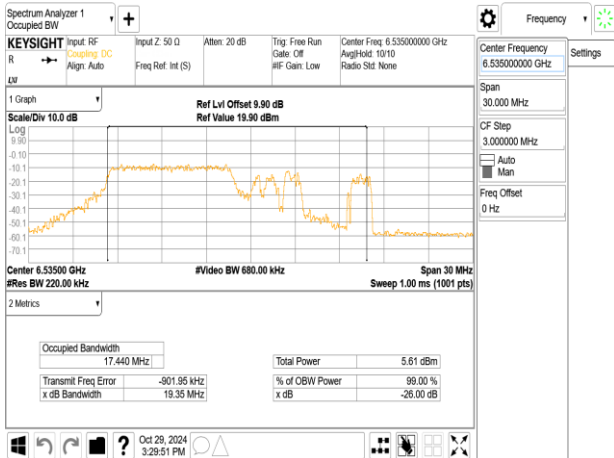
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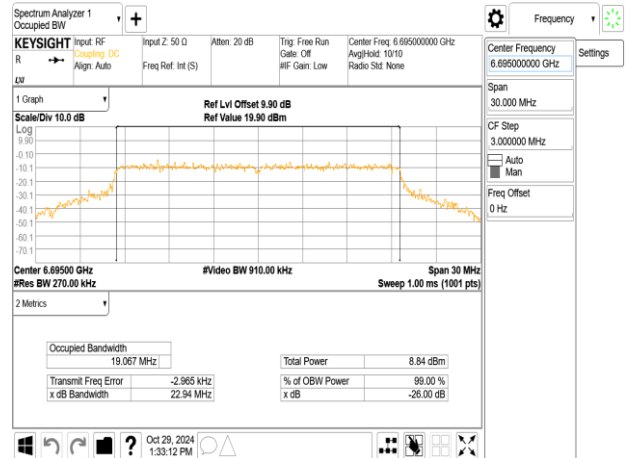
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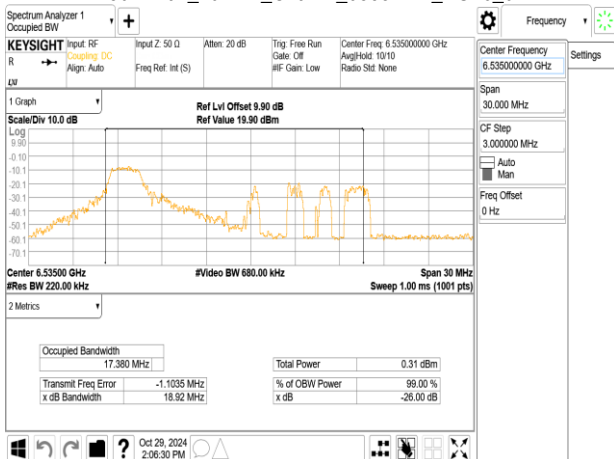
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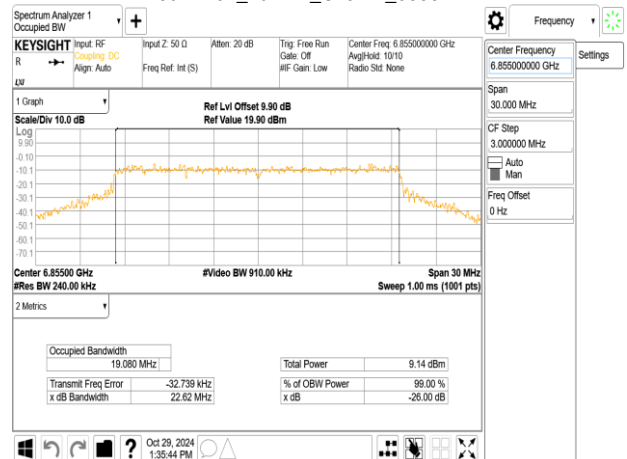
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802.11ax_20MHz_ChainA_6535MHz_RU26_0



802.11ax_20MHz_ChainA_6855MHz

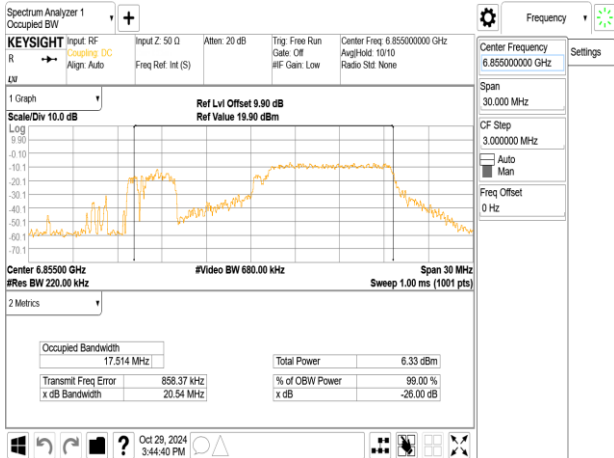


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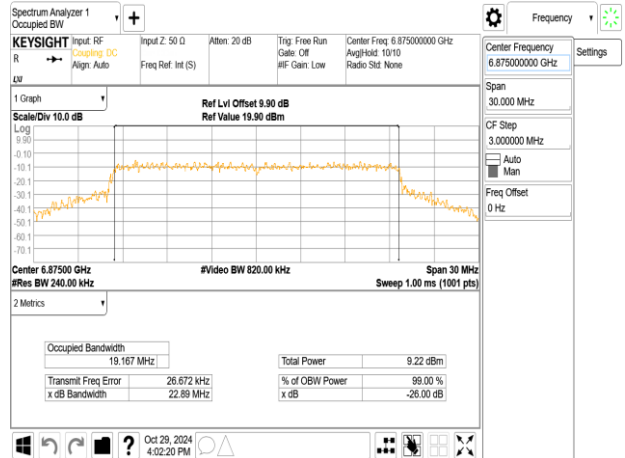
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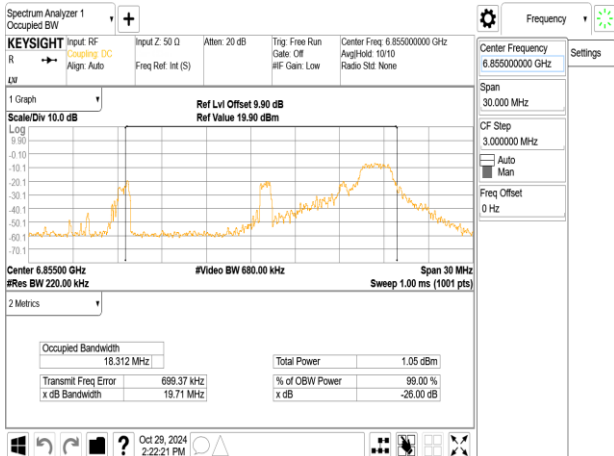
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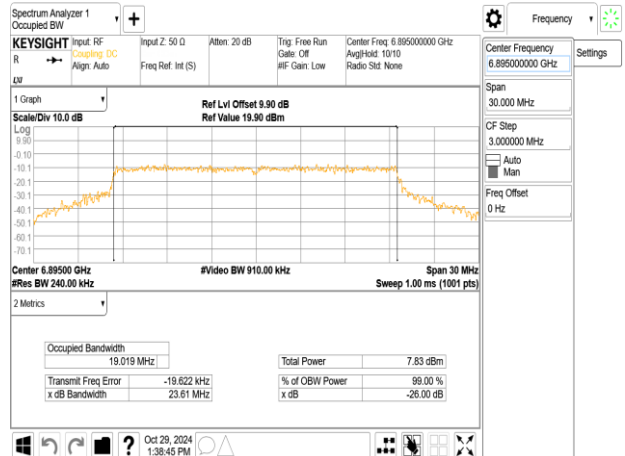
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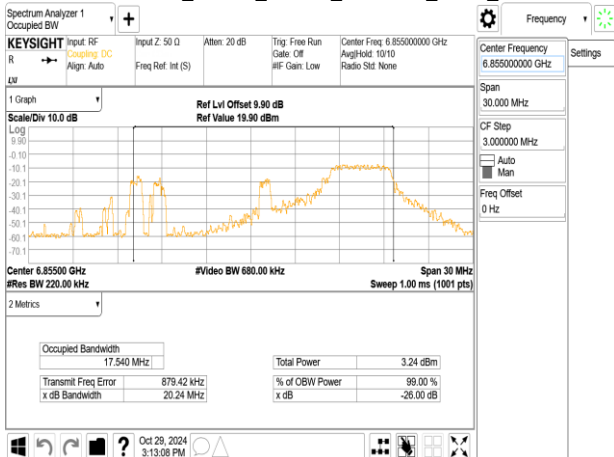
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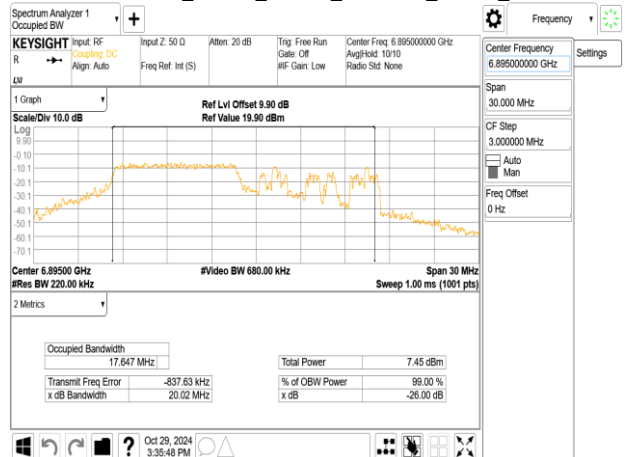
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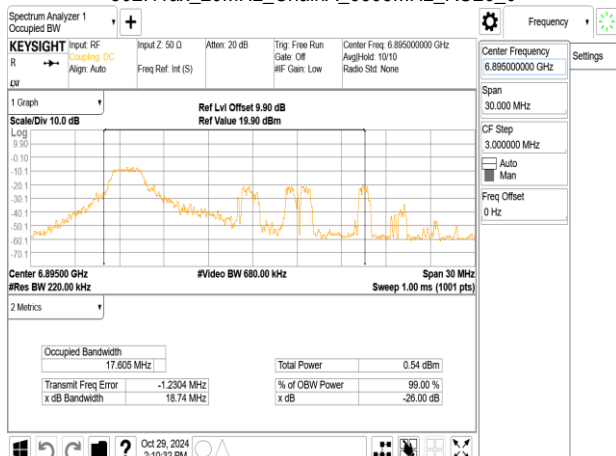


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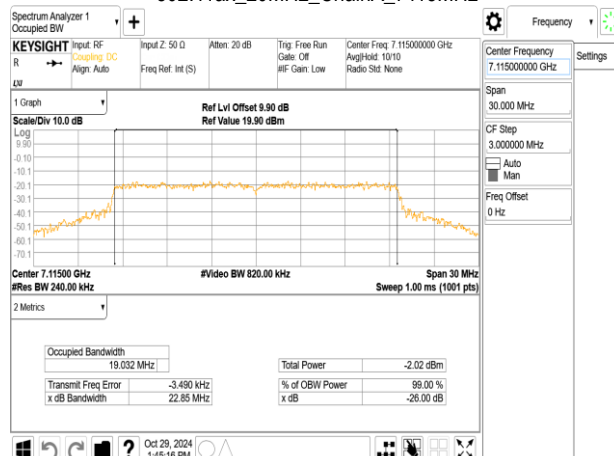
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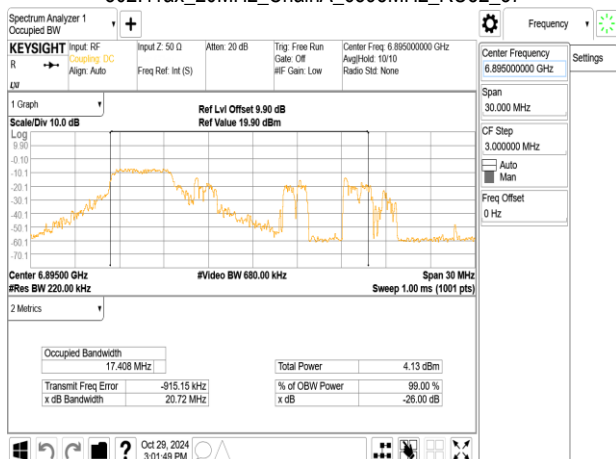
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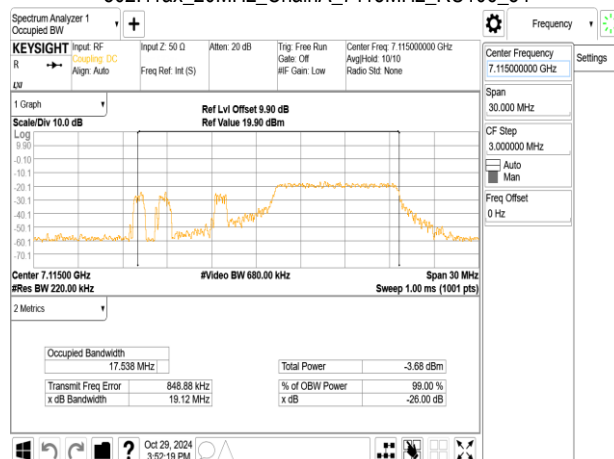
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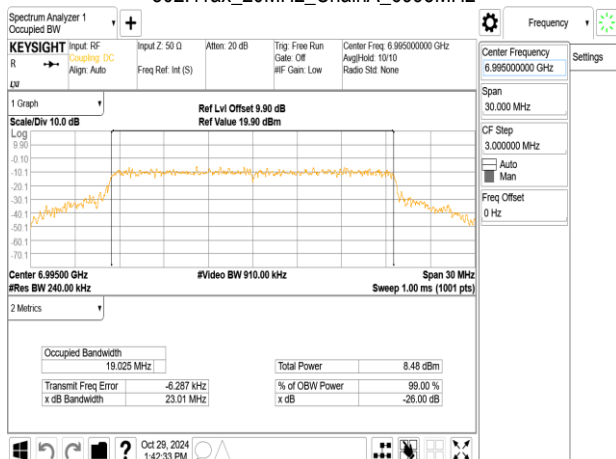
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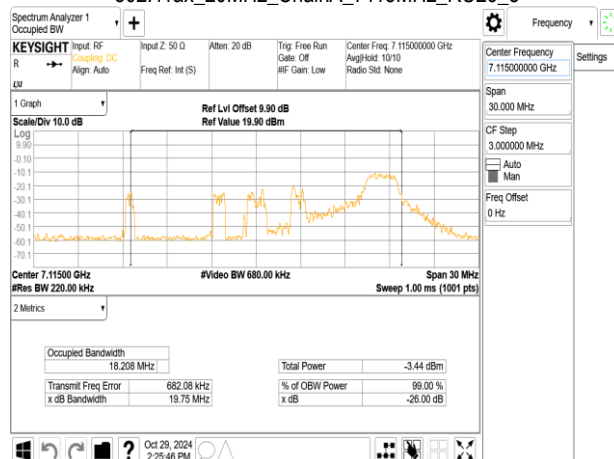
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802.11ax_20MHz_ChainA_6995MHz



802.11ax_20MHz_ChainA_7115MHz_RU26_8

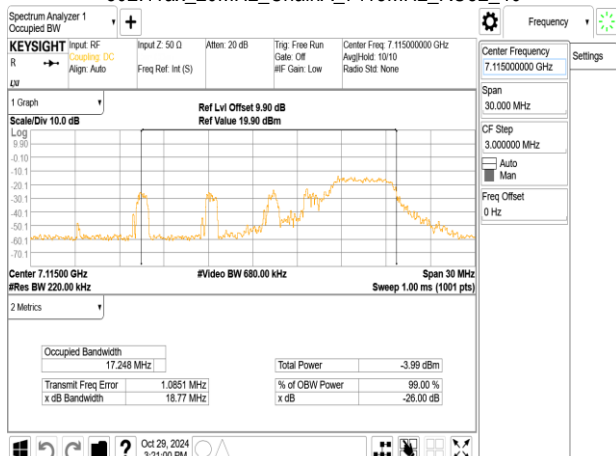


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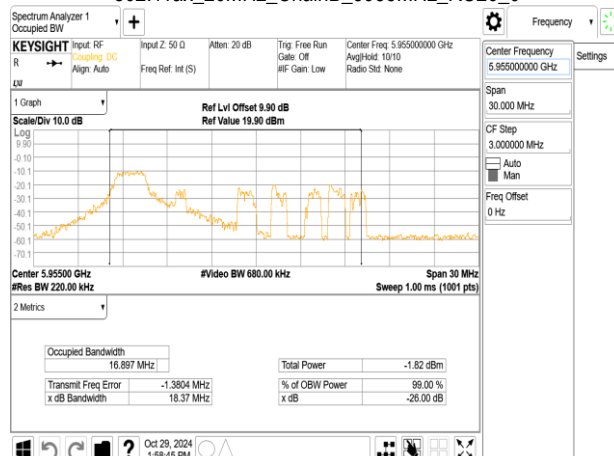
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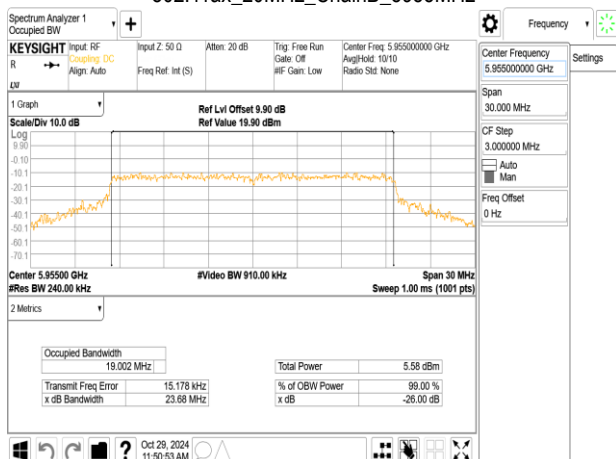
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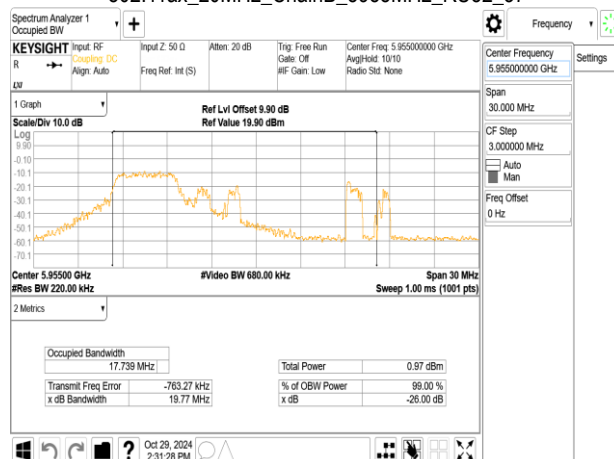
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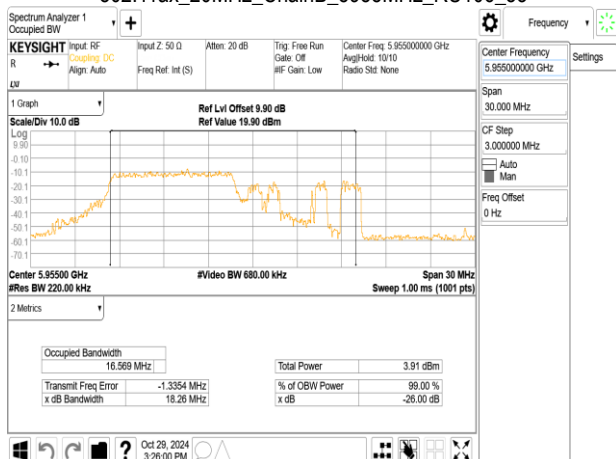
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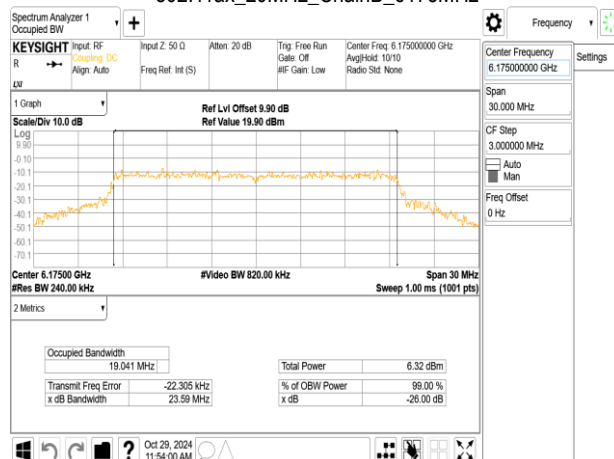
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802.11ax_20MHz_ChainB_5955MHz_RU106_53



802.11ax_20MHz_ChainB_6175MHz

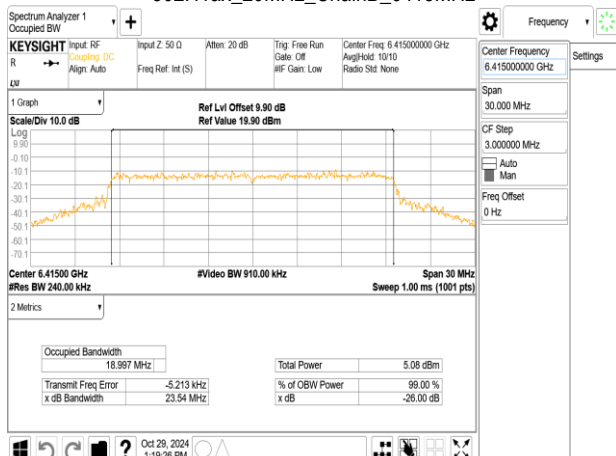


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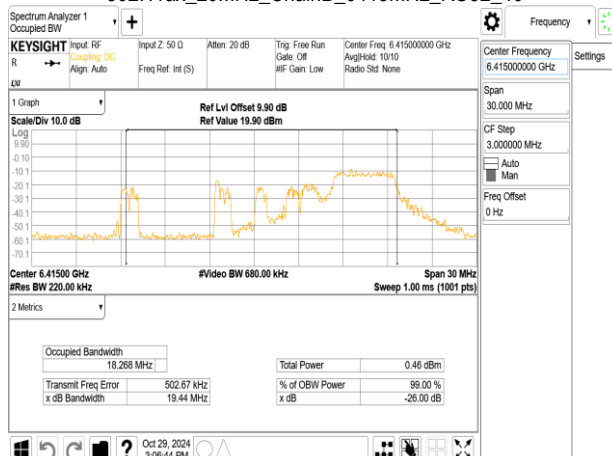
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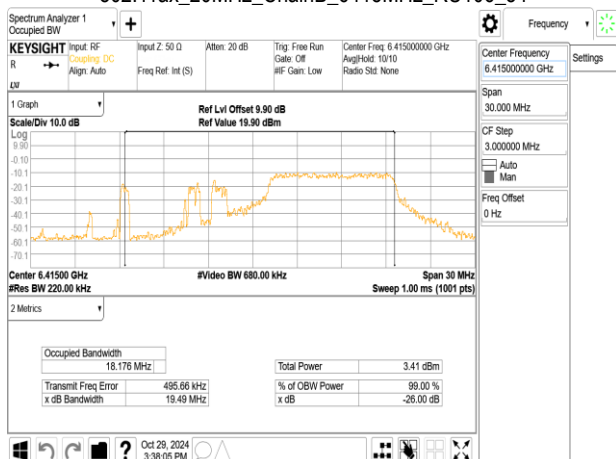
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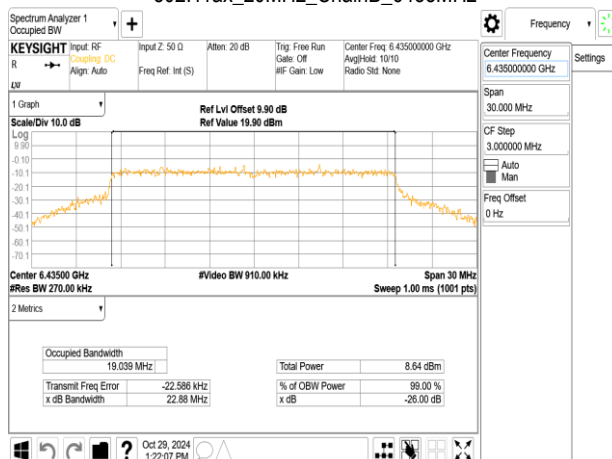
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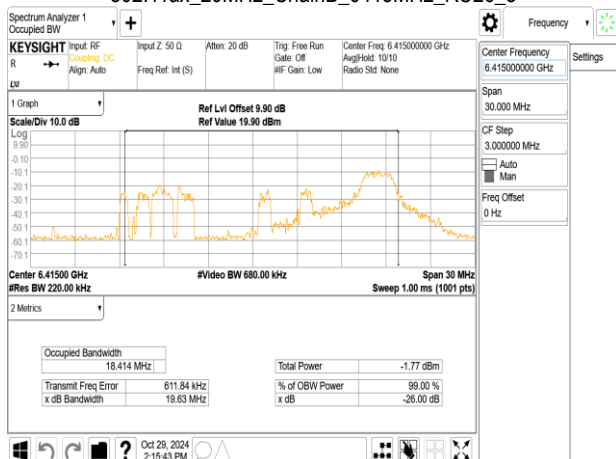
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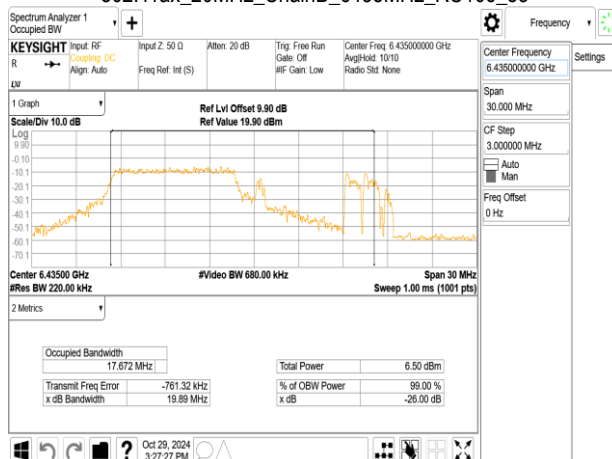
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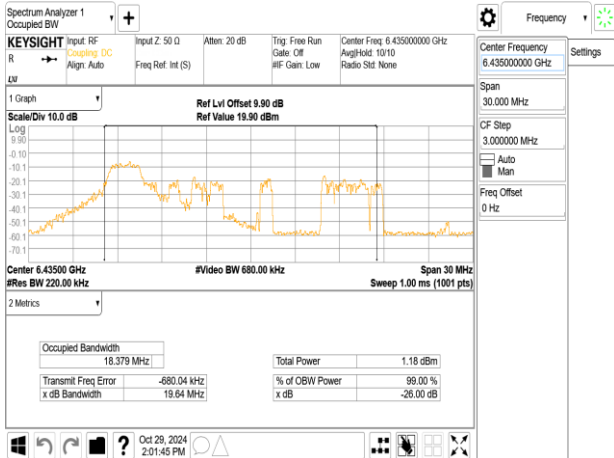


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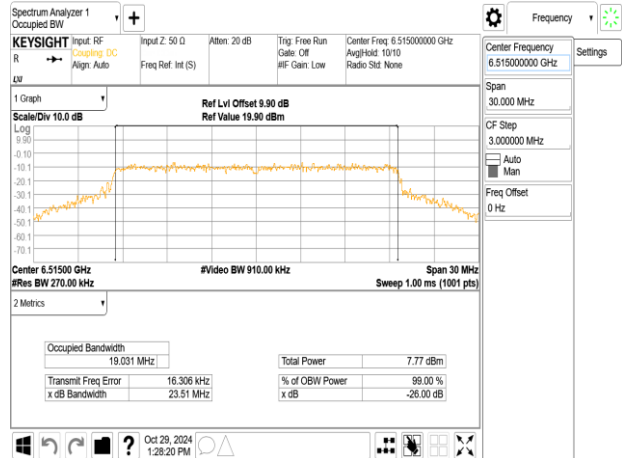
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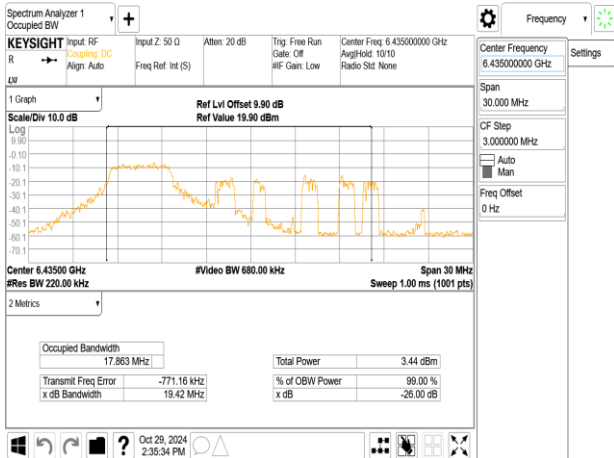
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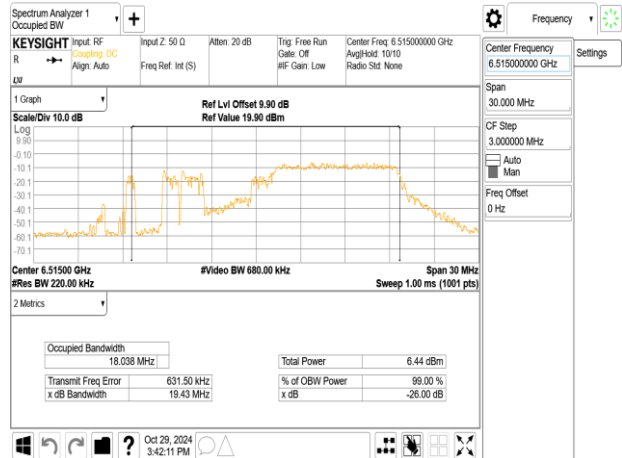
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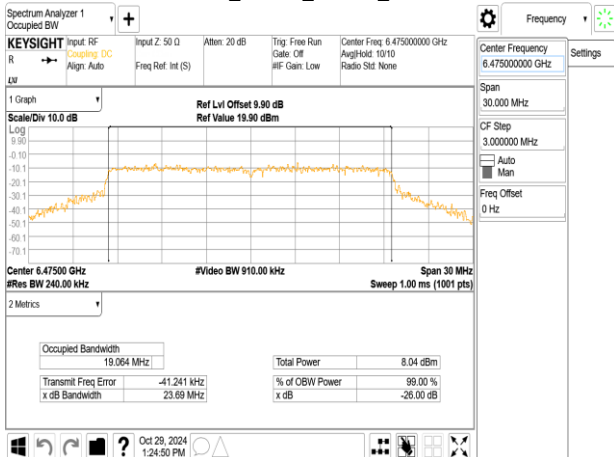
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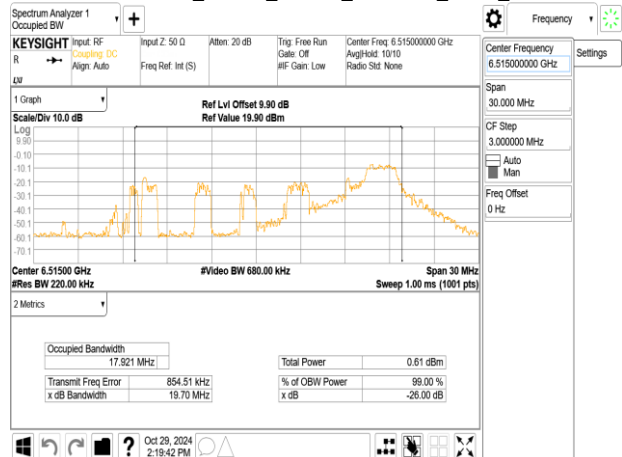
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802.11ax_20MHz_ChainB_6475MHz



802.11ax_20MHz_ChainB_6515MHz_RU26_8

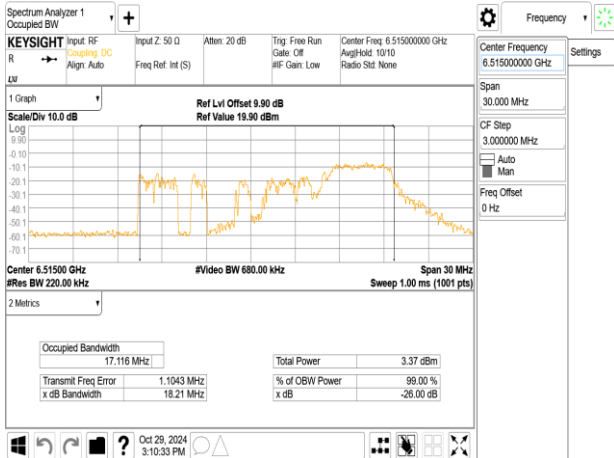


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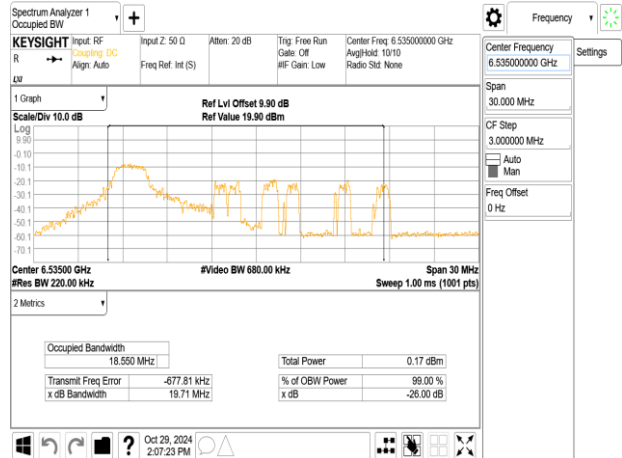
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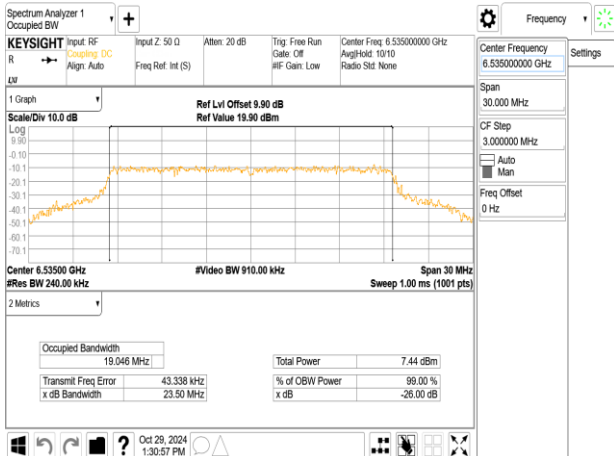
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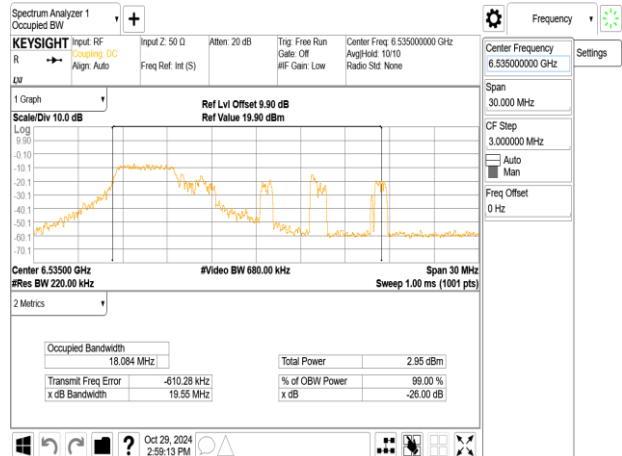
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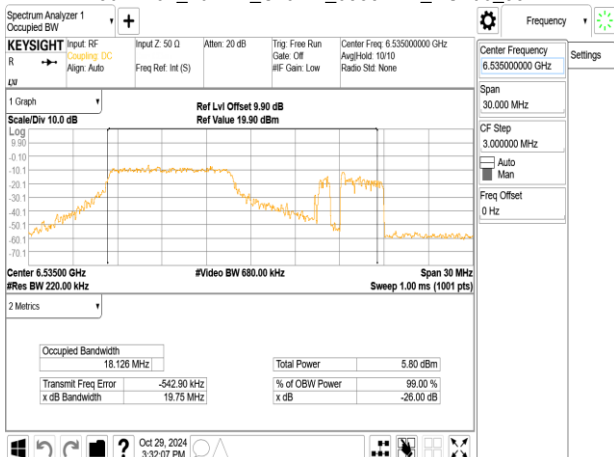
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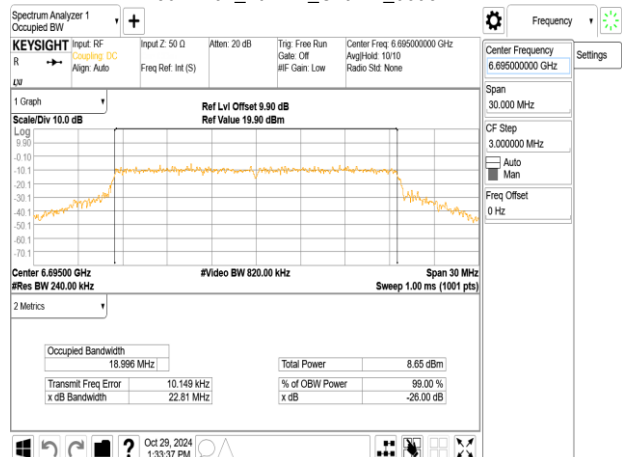
802.11ax_20MHz_ChainB_6535MHz_RU52_37



802.11ax_20MHz_ChainB_6535MHz_RU106_53



802.11ax_20MHz_ChainB_6695MHz

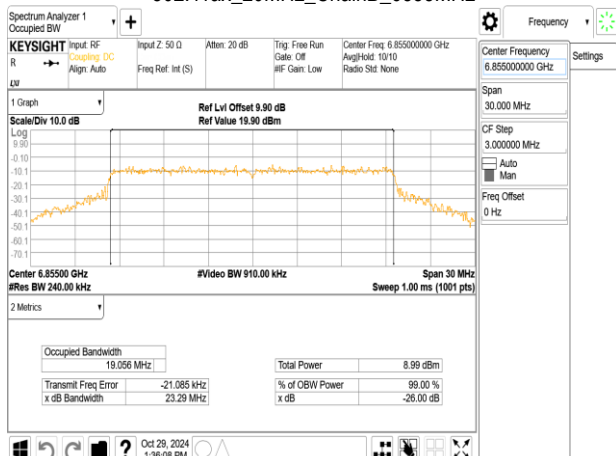


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

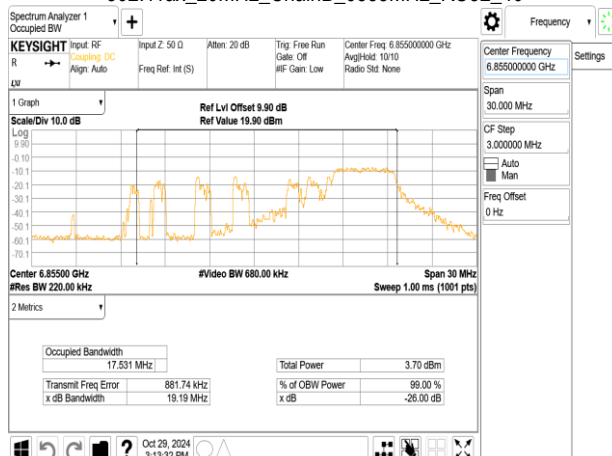
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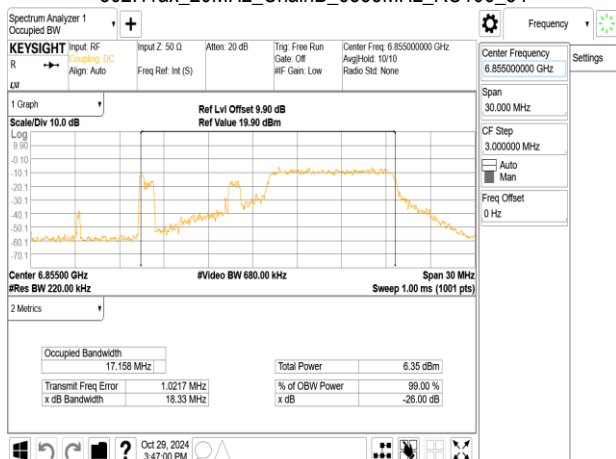
802.11ax_20MHz_ChainB_6855MHz



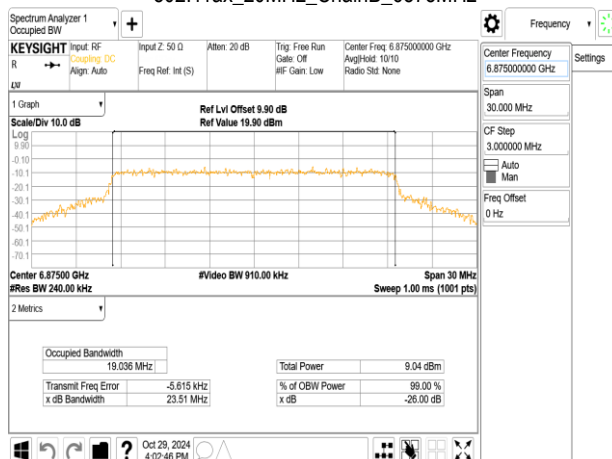
802.11ax_20MHz_ChainB_6855MHz_RU52_40



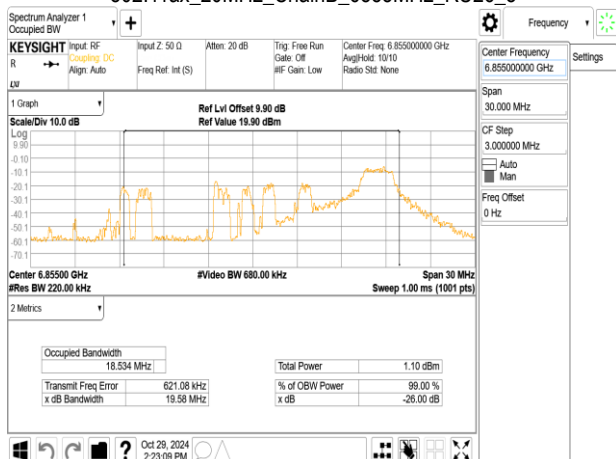
802.11ax_20MHz_ChainB_6855MHz_RU106_54



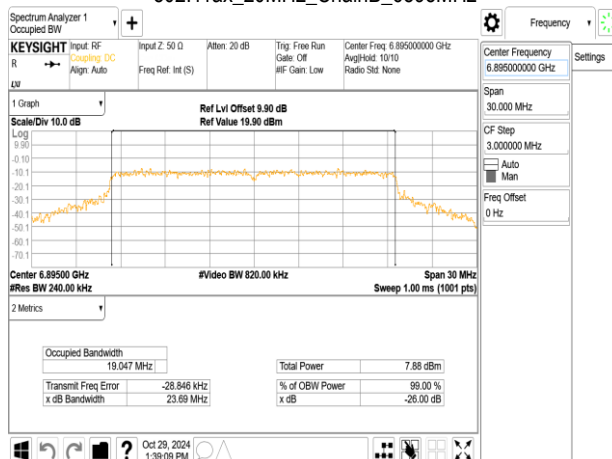
802.11ax_20MHz_ChainB_6875MHz



802.11ax_20MHz_ChainB_6855MHz_RU26_8



802.11ax_20MHz_ChainB_6895MHz



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