

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



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

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

**Product Name:** ASUS Phone (Mobile Phone)

**Brand Name:** ASUS

**Model No.:** ASUS\_AI2302

**Report Number:** TERF2305001084ER

**FCC ID** MSQA12302

**Date of EUT Received:** April 24, 2023

**Date of Test:** May 02, 2023~August 11, 2023

**Issue Date:** August 28, 2023

Approved By \_\_\_\_\_

**Blue Yang**

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

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
TERF2305001084ER	00	Original	July 17, 2023	Violetta Tang	
TERF2305001084ER	01	Updated section 1.2 & 13.4.3	July 26, 2023	Violetta Tang	*
TERF2305001084ER	02	1. Updated the date of test on front page 2. Updated the test equipment list on page 22 3. Updated the test plots for section 8.4.1, 10.4.1 & 11.3	August 09, 2023	Violetta Tang	*
TERF2305001084ER	03	1. Updated the date of test on front page 2. Updated section 4.2 3. Updated the test result data for section 8.4.1 4. Added Co-location test result for section 12.6.2	August 11, 2023	Violetta Tang	*
TERF2305001084ER	04	Added the statements for section 13.4.1	August 28, 2023	Violetta Tang	*

**Note:**

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

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## 1 GENERAL INFORMATION

### 1.1 Product Description

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

### 1.2 RU combination & Modulation & Data Rate

Resource Unit (RU):	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone Multi-RU(Small RU): 52-tone + 26-tone, 106-tone + 26-tone Multi-RU (Large RU): 484-tone + 242-tone, 996-tone + 484-tone, 2 * 996-tone 966*3-tone 966*3-tone +484-tone
Channel Puncturing: (Large RU)	80 MHz punctured by 20 MHz, 160 MHz punctured by 20 MHz 160 MHz punctured by 40 MHz, 320MHz punctured by 40 MHz

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Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	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:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
	802.11 ax_160MHz: up to 2402 Mbps
	802.11 be_20MHz: up to 344.1 Mbps
	802.11 be_40MHz: up to 688.2 Mbps
	802.11 be_80MHz: up to 1441.2 Mbps
802.11 be_160MHz: up to 2882.4 Mbps	
802.11 be_320MHz: up to 5764.8 Mbps	

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### 1.3 Antenna Designation

Antenna Type	Supplier	Antenna No.	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ASUS	ANT 7	AI2302	5925~6425	-0.14
				6425~6525	-6.22
				6525~6875	-5.23
				6875~7125	-4.55
		ANT 8		5925~6425	1.01
				6425~6525	-4.42
				6525~6875	-4.42
				6875~7125	-6.74

**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 Rated Power

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
a n_HT ac_VHT 20MHz	5955~6415	24	11.48 dBm
	6435~6515	5	10.92 dBm
	6535~6875	18	11.45 dBm
	6895~7115	12	11.15 dBm
n_HT ac_VHT 40MHz	5965~6405	12	14.23 dBm
	6445~6525	3	13.51 dBm
	6565~6845	8	14.36 dBm
	6885~7085	6	14.49 dBm
ac_VHT 80MHz	5985~6385	6	16.82 dBm
	6465	1	16.13 dBm
	6545~6865	5	17.09 dBm
	6945~7025	2	16.74 dBm
ac_VHT 160MHz	6025~6345	3	18.84 dBm
	6505	1	18.53 dBm
	6665~6825	2	18.55 dBm
	6985	1	18.07 dBm

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**WLAN 6E**

Wi-Fi	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
ax_HE 20MHz be_EHT 20MHz	5955~6415	24	11.58 dBm
	6435~6515	5	10.99 dBm
	6535~6875	18	11.90 dBm
	6895~7115	12	11.64 dBm
ax_HE 40MHz be_EHT 40MHz	5965~6405	12	14.21 dBm
	6445~6525	3	13.61 dBm
	6565~6845	8	14.82 dBm
	6885~7085	6	14.51 dBm
ax_HE 80MHz be_EHT 80MHz	5985~6385	6	16.72 dBm
	6465	1	16.88 dBm
	6545~6865	5	16.88 dBm
	6945~7025	2	16.45 dBm
ax_HE 160MHz be_EHT 160MHz	6025~6345	3	18.50 dBm
	6505	1	18.26 dBm
	6665~6825	2	18.63 dBm
	6985	1	18.18 dBm
be_EHT 320MHz	6105~6265	3	21.61 dBm
	6425	1	12.94 dBm
	6585~6745	2	19.15 dBm
	6905	1	16.99 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 6GHz 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	TW3702
		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 a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

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

#### 2.3.3 Radiated Emissions

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

#### 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:

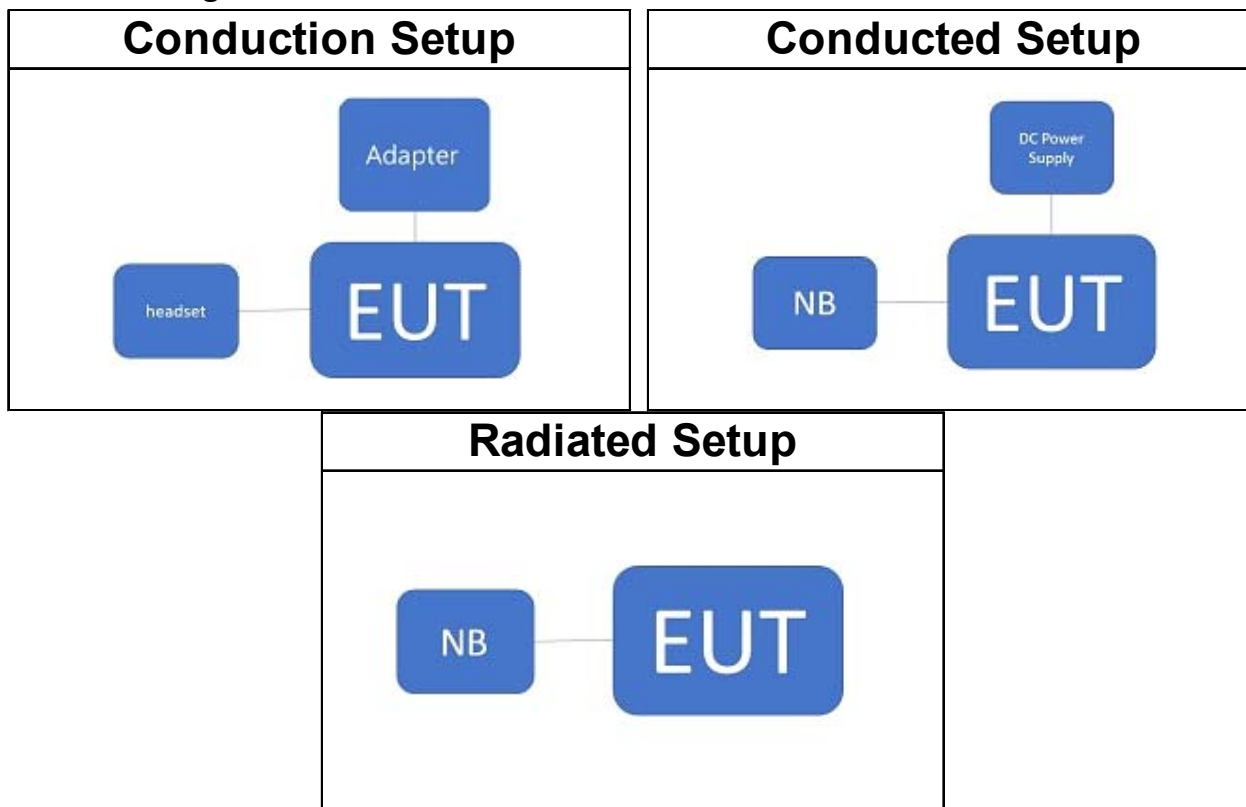
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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## 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.
Adapter	PI	AD2166320	N/A	N/A	N/A
Adapter	京泉華	NCA30UU-20012501	N/A	N/A	N/A
earphone	1MORE	EA010B	N/A	N/A	N/A

### 2.6.2 Conducted Setup

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A

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### 2.6.3 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-014TAK 14/10	N/A	N/A
Notebook	Lenovo	T14	PF-380WLW	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	Qualcomm	RDP433	Qualcomm-AP-1	N/A	N/A
Notebook	Lenovo	L480	PF-1S9NT5	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)(10) §2.1049	Emission Bandwidth	Compliant
§15.407(a)(4~8)	Maximum Conducted Output Power	Compliant
§15.407(a)(4~8)	Power Spectral Density	Compliant
§15.407(b)(6)	In-band emission	Compliant
§15.205 §15.209 §15.407(b)(5), (b)(8), (b)(9)	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				
320MHz									
CH	Freq. (MHz)								
31	6105								
63	6265								
95	6425								

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						
320MHz									
CH	Freq. (MHz)								
127	6585								
159	6745								

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								
229	7095								
233	7115								
320MHz									
CH	Freq. (MHz)								
191	6905								

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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	
v	802.11 a	v	Ch0	v	Ch1	1TX	v	2TX
v	802.11 n	v	Ch0	v	Ch1	1TX	v	2TX
v	802.11 ac	v	Ch0	v	Ch1	1TX	v	2TX
v	802.11 ax	v	Ch0	v	Ch1	1TX	v	2TX
v	802.11 be	v	Ch0	v	Ch1	1TX	v	2TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.
5. The EUT is support 26/52/106/242/484/996\*2 tone RU for ax and be mode, the MRU support 52+26/106+26/484+242/966+484/966\*2+484/966\*3/966\*3+484 tone for be mode
6. The 242-tone RU represent 20MHz channel, 484-tone RU represent 40MHz channel, 966-tone RU represent 80MHz channel.
7. The power tune-up of ax HE20/HE40/HE80/HE160 mode are same with be EHT20/EHT40/EHT80/EHT160 mode, the all test is covered by be mode.
8. 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.
9. U-NII 5/6/7/8 can't transmit simultaneously.
10. The EUT support simultaneous transmission for 2.4GHz + 5GHz or 2.4GHz + 6GHz.

Simultaneous transmission modes
WIFI 2.4G + WIFI 5G
WIFI 2.4G + WIFI 6G

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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5955-6415	1 to 93	1,45,93	6	2TX	
	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			
802.11n_HT20	5955-6415	1 to 93	1,45,93	MCS0	2TX	
	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			
802.11n_HT40	5965-6405	3 to 91	3,43,91	MCS0	2TX	
	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			
802.11ac_VHT80	5985-6385	7 to 87	7,39,87	MCS0	2TX	
	6465	111	103			
	6545-6865	119 to 183	119,135,151,167,183			
	6945-7025	199 to 215	199,215			
802.11ac_VHT160	6025-6345	15 to 79	15,47,79	MCS0	2TX	
	6505	111	111			
	6665-6825	143 to 175	143,175			
	6985	207	207			
CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955-6415	1 to 93	1,45,93	FULL RU	MCS0	2TX
	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	FULL RU	MCS0	2TX
	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	FULL RU	MCS0	2TX
	6465	111	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	FULL RU	MCS0	2TX
	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	MRU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	MCS0	2TX
	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	FULL RU	MCS0	2TX
	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	FULL RU SU_Punct20_Mid2, RU484+242_Punc20	MCS0	2TX
	6465	111	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	FULL RU 996/67, SU_Punct20_Mid3, SU_Punct40_Mid2, SU_Punct20_High, SU_Punct40_High, RU996+484_Punc40, 996+484 MRU4	MCS0	2TX
	6505	111	111			
	6665~6825	143 to 175	143,175			
	6985	207	207			
802.11be_EHT320	6105~6265	31 to 63	31,63	FULL RU RU996x2+484_Punc40, 2*996+484 MRU6, 3*996 MRU4, 3*996+484 MRU8,	MCS0	2TX
	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
802.11a	5955-6415	1 to 93	45	OFDM	6	2TX
	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	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955-6415	1 to 93	1,45,93	OFDM	6	2TX
	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			
802.11n_HT20	5955-6415	1 to 93	1,45,93	OFDM	MCS0	2TX
	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			
802.11n_HT40	5965-6405	3 to 91	3,43,91	OFDM	MCS0	2TX
	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			
802.11ac_VHT80	5985-6385	7 to 87	7,39,87	OFDM	MCS0	2TX
	6465	103	103			
	6545-6865	119 to 183	119,135,151,167,183			
	6945-7025	199 to 215	199,215			
802.11ac_VHT160	6025-6345	15 to 79	15,47,79	OFDM	MCS0	2TX
	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	2TX
	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	MCS0	2TX
	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 SU_Punct20_Mid2, RU484+242_Punc20	MCS0	2TX
	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, SU_Punct20_Mid3, SU_Punct20_High, SU_Punct40_Mid2, SU_Punct40_High, RU996+484_Punc40, 996+484 MRU4,	MCS0	2TX
	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, RU996x2+484_Punc40, 2*996+484 MRU6, 3*996 MRU4, 3*996+484 MRU8,	MCS0	2TX
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				

**Note:**

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

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## 5 MEASUREMENT UNCERTAINTY

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

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

### Note:

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

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

### 6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/13/2023	07/12/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	2132007	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911391	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911392	09/21/2022	09/20/2023
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/16/2023	01/15/2024
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

### 6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	01/17/2023	01/16/2024
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/07/2023	03/06/2024
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/07/2023	03/06/2024
Attenuator	Agilent	8495B	3308A22470	12/13/2022	12/12/2023
Attenuator	HP	8494B	2812A17605	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	4	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-020	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT2W1G18G	21032900018	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT2W1G18G	18112200202	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT4W1G18G	SPCD10-010	12/13/2022	12/12/2023

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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.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2022	09/26/2023
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	EMC Instruments	EMC118A45SEE	980868	12/13/2022	12/12/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	HP	8447D	2944A07676	12/13/2022	12/12/2023
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
Bandreject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/13/2022	12/12/2023
Bandreject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/13/2022	12/12/2023
Bandreject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/13/2022	12/12/2023
Bandreject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/13/2022	12/12/2023
8.6GHz High Pass Filter	Titan	T04H86002600060S 01	210619-2-7	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	MY4251/4PEA	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 500	221104	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 1000	221103	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 1500	221110	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM- 8000	221109	12/13/2022	12/12/2023
Site Cal	SGS	SAC 3	N/A	01/01/2023	12/31/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

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

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

Frequency range within 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

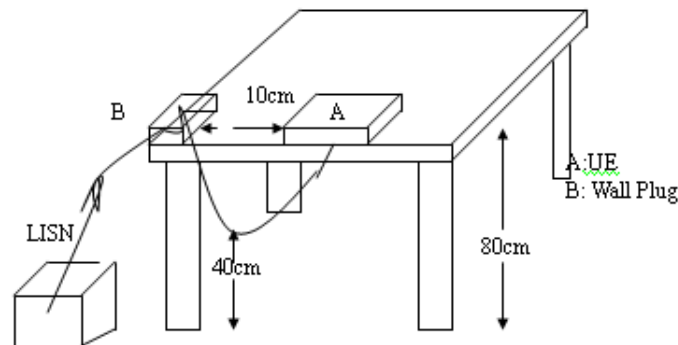
Note

- 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 rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
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

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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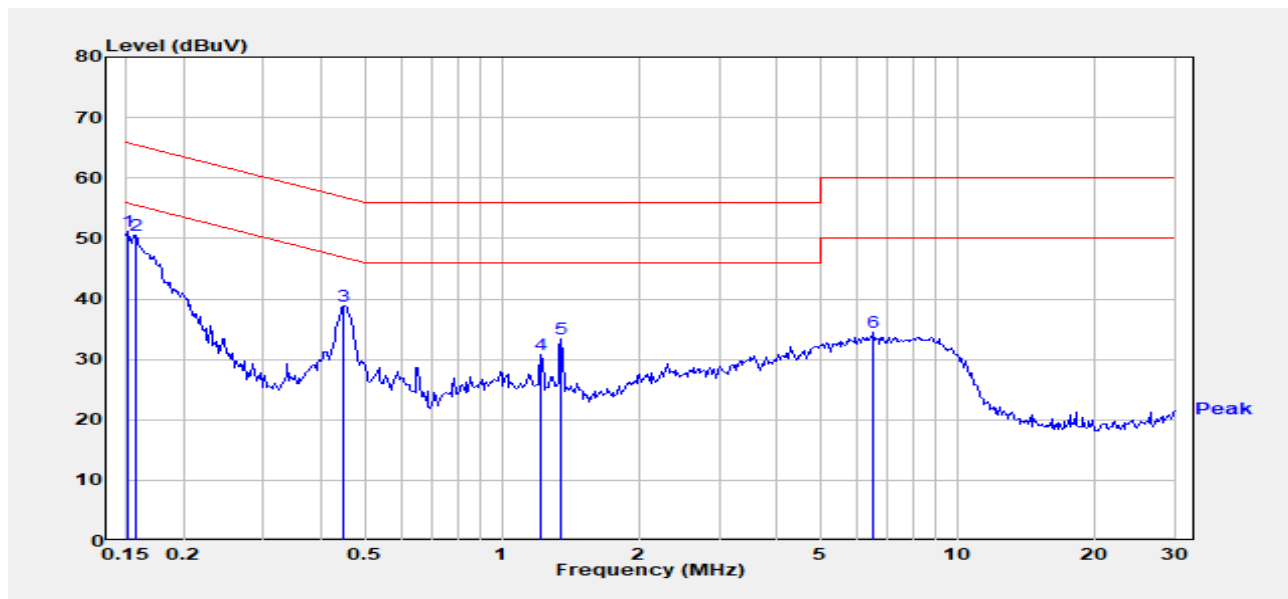
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2305001084ER	Test Site	:Conduction 1
Test Mode	:Operation (WLAN6E)	Test Date	:2023-05-16
Power	:120V/60Hz	Temp./Humi.	:25.6/62
Probe	:L	Engineer	:Nick Lin
Note:	:Adapter A299-200150U-US		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V	Limit dB $\mu$ V	Margin dB
0.151	Peak	40.91	10.25	51.16	65.94	-14.78
0.157	Peak	40.19	10.25	50.44	65.62	-15.18
0.450	Peak	28.66	10.25	38.91	56.88	-17.97
1.220	Peak	20.18	10.57	30.74	56.00	-25.26
1.349	Peak	22.67	10.67	33.34	56.00	-22.66
6.559	Peak	23.80	10.58	34.38	60.00	-25.62

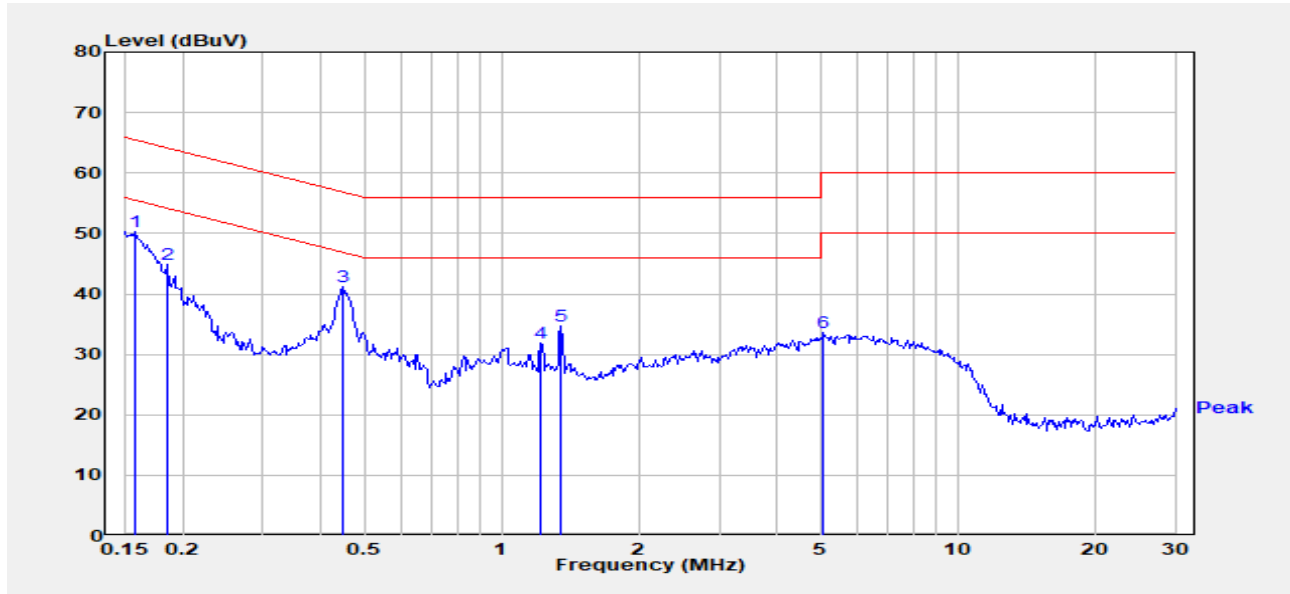
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Report Number :TERF2305001084ER  
 Test Mode :Operation (WLAN6E)  
 Power :120V/60Hz  
 Probe :N  
 Note: :Adapter A299-200150U-US

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V	Limit dB $\mu$ V	Margin dB
0.157	Peak	39.94	10.25	50.19	65.62	-15.43
0.185	Peak	34.71	10.25	44.96	64.28	-19.32
0.450	Peak	30.92	10.25	41.17	56.88	-15.71
1.220	Peak	21.22	10.57	31.79	56.00	-24.21
1.349	Peak	24.02	10.67	34.69	56.00	-21.31
5.091	Peak	23.12	10.56	33.68	60.00	-26.32

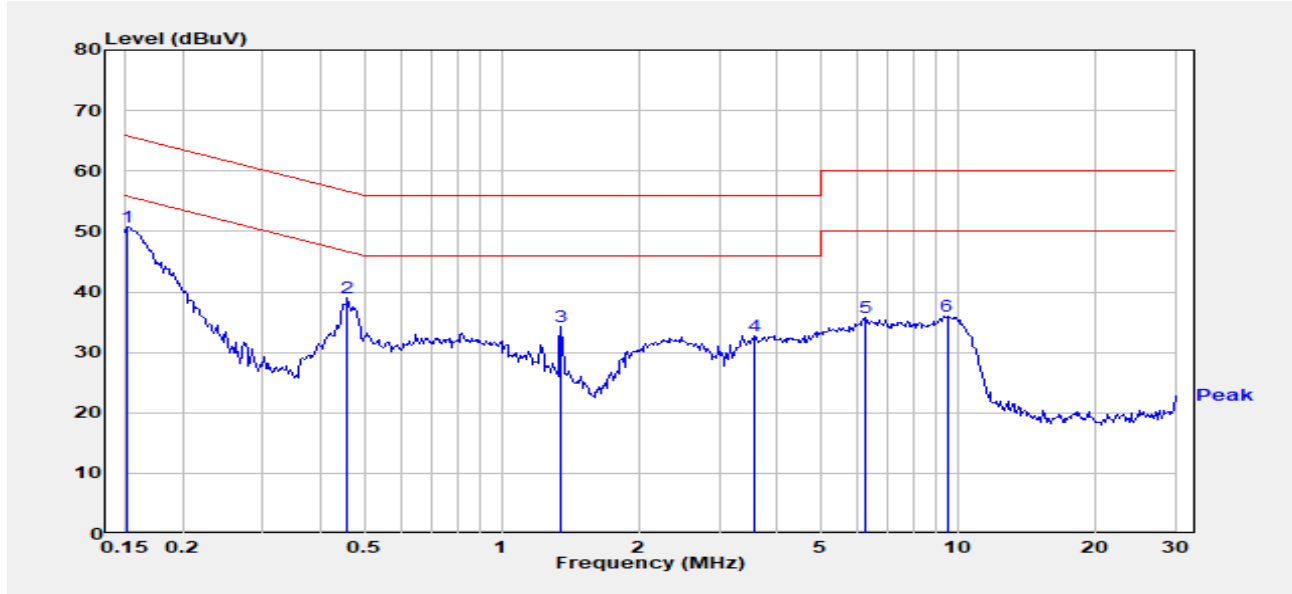
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Report Number :TERF2305001084ER  
 Test Mode :Operation (WLAN6E)  
 Power :240V/60Hz  
 Probe :L  
 Note: :Adapter A299-200150U-US

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V	Limit dB $\mu$ V	Margin dB
0.151	Peak	40.53	10.25	50.78	65.94	-15.15
0.460	Peak	28.74	10.25	38.99	56.69	-17.70
1.349	Peak	23.59	10.67	34.26	56.00	-21.74
3.576	Peak	22.00	10.72	32.73	56.00	-23.27
6.263	Peak	25.12	10.57	35.70	60.00	-24.30
9.482	Peak	25.41	10.63	36.04	60.00	-23.96

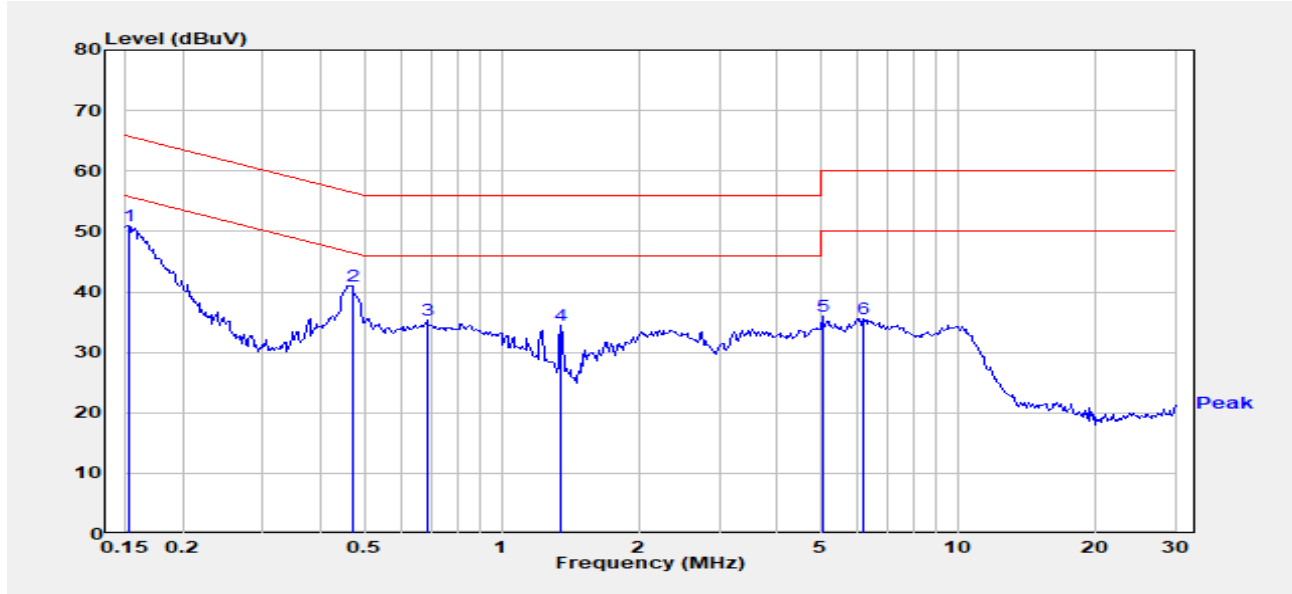
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Report Number :TERF2305001084ER  
 Test Mode :Operation (WLAN6E)  
 Power :240V/60Hz  
 Probe :N  
 Note: :Adapter A299-200150U-US

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



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V	Limit dB $\mu$ V	Margin dB
0.152	Peak	40.76	10.25	51.01	65.87	-14.86
0.471	Peak	30.78	10.25	41.03	56.50	-15.46
0.686	Peak	24.95	10.30	35.25	56.00	-20.75
1.349	Peak	23.86	10.67	34.53	56.00	-21.47
5.052	Peak	25.52	10.56	36.08	60.00	-23.92
6.216	Peak	24.96	10.58	35.54	60.00	-24.46

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## 8 EMISSION BANDWIDTH

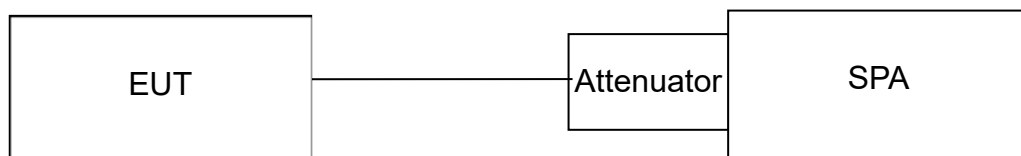
### 8.1 Standard Applicable

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 1% of emission BW  
Sweep=auto,  
Detector = Peak,  
Trace Mode = Max Hold,  
Manually readjust RBW until the RBW/EBW ratio is 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%,  
VBW = 3\*RBW,  
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

#### 802.11a\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
1	5955	16.875	23.070	≤ 320
45	6175	16.790	23.240	≤ 320
93	6415	17.028	22.330	≤ 320
97	6435	16.827	22.410	≤ 320
105	6475	16.990	22.610	≤ 320
113	6515	16.991	23.240	≤ 320
117	6535	16.936	21.730	≤ 320
149	6695	<b>16.859</b>	<b>22.990</b>	≤ 320
181	6855	<b>16.932</b>	<b>22.470</b>	≤ 320
185	6875(U-NII 7)	<b>8.419</b>	<b>11.345</b>	≤ 320
185	6875(U-NII 8)	<b>8.419</b>	<b>11.345</b>	≤ 320
189	6895	<b>16.857</b>	<b>21.960</b>	≤ 320
209	6995	<b>16.856</b>	<b>22.400</b>	≤ 320
233	7115	<b>16.935</b>	<b>22.770</b>	≤ 320

#### 802.11a\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
1	5955	16.794	22.770	≤ 320
45	6175	16.864	22.820	≤ 320
93	6415	16.829	22.470	≤ 320
97	6435	16.708	22.000	≤ 320
105	6475	16.833	22.140	≤ 320
113	6515	16.874	22.770	≤ 320
117	6535	16.795	22.530	≤ 320
149	6695	<b>16.896</b>	<b>22.180</b>	≤ 320
181	6855	<b>17.003</b>	<b>23.490</b>	≤ 320
185	6875(U-NII 7)	<b>8.435</b>	<b>11.380</b>	≤ 320
185	6875(U-NII 8)	<b>8.435</b>	<b>11.380</b>	≤ 320
189	6895	<b>16.879</b>	<b>21.850</b>	≤ 320
209	6995	<b>16.935</b>	<b>22.840</b>	≤ 320
233	7115	<b>16.843</b>	<b>22.730</b>	≤ 320

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## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
1	5955	17.961	22.660	≤ 320
45	6175	17.968	23.090	≤ 320
93	6415	17.882	23.180	≤ 320
97	6435	17.969	22.610	≤ 320
105	6475	17.900	23.130	≤ 320
113	6515	17.859	23.070	≤ 320
117	6535	18.011	23.520	≤ 320
149	6695	<b>17.884</b>	<b>23.030</b>	≤ 320
181	6855	<b>17.973</b>	<b>22.260</b>	≤ 320
185	6875(U-NII 7)	<b>8.928</b>	<b>11.430</b>	≤ 320
185	6875(U-NII 8)	<b>8.928</b>	<b>11.430</b>	≤ 320
189	6895	<b>17.929</b>	<b>23.170</b>	≤ 320
209	6995	<b>17.925</b>	<b>23.550</b>	≤ 320
233	7115	<b>17.958</b>	<b>22.510</b>	≤ 320

## 802.11n\_HT20\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
1	5955	18.011	23.180	≤ 320
45	6175	18.004	22.620	≤ 320
93	6415	18.013	23.570	≤ 320
97	6435	17.899	22.860	≤ 320
105	6475	18.004	22.840	≤ 320
113	6515	17.919	23.490	≤ 320
117	6535	18.045	23.020	≤ 320
149	6695	<b>17.933</b>	<b>23.430</b>	≤ 320
181	6855	<b>17.829</b>	<b>22.990</b>	≤ 320
185	6875(U-NII 7)	<b>8.949</b>	<b>11.410</b>	≤ 320
185	6875(U-NII 8)	<b>8.949</b>	<b>11.410</b>	≤ 320
189	6895	<b>17.850</b>	<b>22.480</b>	≤ 320
209	6995	<b>17.882</b>	<b>22.720</b>	≤ 320
233	7115	<b>17.943</b>	<b>23.540</b>	≤ 320

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802.11n\_HT40\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
3	5965	36.333	42.510	≤ 320
43	6165	36.463	43.240	≤ 320
91	6405	36.356	44.050	≤ 320
99	6445	36.495	44.910	≤ 320
107	6485	36.461	44.670	≤ 320
115	6525(U-NII 6)	18.244	21.985	≤ 320
115	6525(U-NII 7)	18.244	21.985	≤ 320
123	6565	36.439	43.930	≤ 320
147	6685	<b>36.403</b>	<b>43.530</b>	≤ 320
179	6845	<b>36.475</b>	<b>43.870</b>	≤ 320
187	6885(U-NII 7)	<b>8.259</b>	<b>12.075</b>	≤ 320
187	6885(U-NII 8)	<b>28.259</b>	<b>32.075</b>	≤ 320
195	6925	<b>36.563</b>	<b>43.640</b>	≤ 320
211	7005	<b>36.464</b>	<b>43.940</b>	≤ 320
227	7085	<b>36.438</b>	<b>44.250</b>	≤ 320

802.11n\_HT40\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
3	5965	36.333	44.890	≤ 320
43	6165	36.357	42.720	≤ 320
91	6405	36.446	42.970	≤ 320
99	6445	36.347	43.290	≤ 320
107	6485	36.415	43.160	≤ 320
115	6525(U-NII 6)	18.173	21.535	≤ 320
115	6525(U-NII 7)	18.173	21.535	≤ 320
123	6565	36.450	42.840	≤ 320
147	6685	<b>36.317</b>	<b>43.360</b>	≤ 320
179	6845	<b>36.405</b>	<b>43.380</b>	≤ 320
187	6885(U-NII 7)	<b>8.221</b>	<b>13.295</b>	≤ 320
187	6885(U-NII 8)	<b>28.221</b>	<b>33.295</b>	≤ 320
195	6925	<b>36.410</b>	<b>43.850</b>	≤ 320
211	7005	<b>36.436</b>	<b>42.870</b>	≤ 320
227	7085	<b>36.587</b>	<b>43.900</b>	≤ 320

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802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
7	5985	76.072	89.840	≤ 320
39	6145	76.205	88.940	≤ 320
87	6385	76.110	87.990	≤ 320
103	6465	75.960	88.870	≤ 320
119	6545(U-NII 6)	18.175	24.570	≤ 320
119	6545(U-NII 7)	58.175	64.570	≤ 320
135	6625	76.124	88.470	≤ 320
151	6705	76.188	90.370	≤ 320
167	6785	76.293	<b>88.710</b>	≤ 320
183	6865(U-NII 7)	48.070	<b>53.970</b>	≤ 320
183	6865(U-NII 8)	28.070	33.970	≤ 320
199	6945	76.172	<b>90.670</b>	≤ 320
215	7025	76.304	<b>88.490</b>	≤ 320

802.11ac\_VHT80\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
7	5985	76.338	89.830	≤ 320
39	6145	76.175	87.550	≤ 320
87	6385	76.200	89.310	≤ 320
103	6465	76.132	88.700	≤ 320
119	6545(U-NII 6)	18.045	25.455	≤ 320
119	6545(U-NII 7)	58.045	65.455	≤ 320
135	6625	76.323	90.040	≤ 320
151	6705	76.229	88.310	≤ 320
167	6785	76.189	<b>89.130</b>	≤ 320
183	6865(U-NII 7)	48.123	<b>53.270</b>	≤ 320
183	6865(U-NII 8)	28.123	33.270	≤ 320
199	6945	76.271	<b>88.690</b>	≤ 320
215	7025	76.236	<b>88.940</b>	≤ 320

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802.11ac\_VHT160\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
15	6025	155.04	170.780	≤ 320
47	6185	154.95	171.100	≤ 320
79	6345	154.97	171.870	≤ 320
111	6505(U-NII 6)	97.46	105.220	≤ 320
111	6505(U-NII 7)	57.46	65.220	≤ 320
143	6665	154.87	170.040	≤ 320
175	6825(U-NII 7)	127.57	153.615	≤ 320
175	6825(U-NII 8)	27.57	53.615	≤ 320
207	6985	155.16	171.480	≤ 320

802.11ac\_VHT160\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
15	6025	154.65	171.740	≤ 320
47	6185	154.78	169.720	≤ 320
79	6345	154.98	171.000	≤ 320
111	6505(U-NII 6)	97.42	105.855	≤ 320
111	6505(U-NII 7)	57.42	65.855	≤ 320
143	6665	154.77	169.710	≤ 320
175	6825(U-NII 7)	127.60	134.035	≤ 320
175	6825(U-NII 8)	27.60	34.035	≤ 320
207	6985	155.07	170.660	≤ 320

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802.11be\_EHT20\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
1	5955	19.051	21.790	≤ 320
45	6175	19.079	22.600	≤ 320
93	6415	19.084	22.950	≤ 320
97	6435	19.045	21.980	≤ 320
105	6475	19.016	22.160	≤ 320
113	6515	19.071	22.100	≤ 320
117	6535	19.016	21.070	≤ 320
149	6695	<b>19.064</b>	<b>22.410</b>	≤ 320
181	6855	<b>19.138</b>	<b>22.600</b>	≤ 320
185	6875(U-NII 7)	<b>9.502</b>	<b>11.090</b>	≤ 320
185	6875(U-NII 8)	<b>9.502</b>	<b>11.090</b>	≤ 320
189	6895	<b>19.047</b>	<b>21.510</b>	≤ 320
209	6995	<b>19.026</b>	<b>22.570</b>	≤ 320
233	7115	<b>19.062</b>	<b>22.090</b>	≤ 320

802.11be\_EHT20\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
1	5955	19.059	22.070	≤ 320
45	6175	19.056	22.420	≤ 320
93	6415	19.064	22.020	≤ 320
97	6435	19.039	22.490	≤ 320
105	6475	19.068	22.470	≤ 320
113	6515	19.168	22.350	≤ 320
117	6535	19.005	22.700	≤ 320
149	6695	<b>18.987</b>	<b>22.270</b>	≤ 320
181	6855	<b>19.133</b>	<b>21.720</b>	≤ 320
185	6875(U-NII 7)	<b>9.525</b>	<b>10.800</b>	≤ 320
185	6875(U-NII 8)	<b>9.525</b>	<b>10.800</b>	≤ 320
189	6895	<b>19.003</b>	<b>22.810</b>	≤ 320
209	6995	<b>19.051</b>	<b>22.370</b>	≤ 320
233	7115	<b>19.101</b>	<b>22.560</b>	≤ 320

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## 802.11be\_EHT40\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
3	5965	37.963	42.600	≤ 320
43	6165	37.878	42.220	≤ 320
91	6405	37.868	42.840	≤ 320
99	6445	37.953	42.830	≤ 320
107	6485	37.890	42.290	≤ 320
115	6525(U-NII 6)	19.001	20.945	≤ 320
115	6525(U-NII 7)	19.001	20.945	≤ 320
123	6565	37.934	42.120	≤ 320
147	6685	<b>37.953</b>	<b>42.390</b>	≤ 320
179	6845	<b>37.936</b>	<b>42.720</b>	≤ 320
187	6885(U-NII 7)	<b>9.008</b>	<b>11.135</b>	≤ 320
187	6885(U-NII 8)	<b>29.008</b>	<b>31.135</b>	≤ 320
195	6925	<b>38.020</b>	<b>42.880</b>	≤ 320
211	7005	<b>38.064</b>	<b>42.790</b>	≤ 320
227	7085	<b>37.980</b>	<b>42.740</b>	≤ 320

## 802.11be\_EHT40\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
3	5965	37.875	42.500	≤ 320
43	6165	37.896	42.370	≤ 320
91	6405	37.912	42.370	≤ 320
99	6445	37.838	42.550	≤ 320
107	6485	37.956	42.910	≤ 320
115	6525(U-NII 6)	18.966	20.800	≤ 320
115	6525(U-NII 7)	18.966	20.800	≤ 320
123	6565	37.793	41.730	≤ 320
147	6685	<b>38.058</b>	<b>42.640</b>	≤ 320
179	6845	<b>38.033</b>	<b>42.470</b>	≤ 320
187	6885(U-NII 7)	<b>8.993</b>	<b>11.335</b>	≤ 320
187	6885(U-NII 8)	<b>28.993</b>	<b>31.335</b>	≤ 320
195	6925	<b>37.907</b>	<b>41.580</b>	≤ 320
211	7005	<b>37.930</b>	<b>42.140</b>	≤ 320
227	7085	<b>37.998</b>	<b>42.440</b>	≤ 320

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## 802.11be\_EHT80\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
7	5985	77.586	87.480	≤ 320
39	6145	77.614	82.820	≤ 320
87	6385	77.919	86.600	≤ 320
103	6465	77.758	84.220	≤ 320
119	6545(U-NII 6)	18.808	23.635	≤ 320
119	6545(U-NII 7)	58.808	63.635	≤ 320
135	6625	77.451	85.360	≤ 320
151	6705	77.808	85.020	≤ 320
167	6785	77.584	<b>86.660</b>	≤ 320
183	6865(U-NII 7)	48.919	<b>53.935</b>	≤ 320
183	6865(U-NII 8)	28.919	33.935	≤ 320
199	6945	77.659	<b>84.270</b>	≤ 320
215	7025	77.768	<b>84.550</b>	≤ 320

## 802.11be\_EHT80\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
7	5985	77.747	85.400	≤ 320
39	6145	77.726	86.620	≤ 320
87	6385	77.447	84.720	≤ 320
103	6465	77.462	81.840	≤ 320
119	6545(U-NII 6)	18.776	22.505	≤ 320
119	6545(U-NII 7)	58.776	62.505	≤ 320
135	6625	77.606	87.330	≤ 320
151	6705	77.724	84.430	≤ 320
167	6785	77.632	<b>87.130</b>	≤ 320
183	6865(U-NII 7)	48.863	<b>53.365</b>	≤ 320
183	6865(U-NII 8)	28.863	33.365	≤ 320
199	6945	77.663	<b>85.010</b>	≤ 320
215	7025	77.544	<b>84.910</b>	≤ 320

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802.11be\_EHT160\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
15	6025	156.57	173.710	≤ 320
47	6185	156.22	169.100	≤ 320
79	6345	156.61	169.220	≤ 320
111	6505(U-NII 6)	98.19	105.990	≤ 320
111	6505(U-NII 7)	58.19	65.990	≤ 320
143	6665	156.55	170.010	≤ 320
175	6825(U-NII 7)	128.20	137.240	≤ 320
175	6825(U-NII 8)	28.20	37.240	≤ 320
207	6985	156.47	171.570	≤ 320

802.11be\_EHT160\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)
15	6025	156.36	172.470	≤ 320
47	6185	156.09	168.650	≤ 320
79	6345	156.31	168.040	≤ 320
111	6505(U-NII 6)	98.22	104.865	≤ 320
111	6505(U-NII 7)	58.22	64.865	≤ 320
143	6665	156.43	169.040	≤ 320
175	6825(U-NII 7)	128.31	134.870	≤ 320
175	6825(U-NII 8)	28.31	34.870	≤ 320
207	6985	156.61	168.000	≤ 320

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802.11be\_EHT320\_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	99% BW Limit (MHz)
31	6105	310.96	327.110	≤ 320
63	6265	310.97	329.700	≤ 320
95	6425(U-NII 5)	155.83	164.430	≤ 320
95	6425(U-NII 6)	100.00	100.000	≤ 320
95	6425(U-NII 7)	55.83	64.430	≤ 320
127	6585(U-NII 6)	95.88	140.090	≤ 320
127	6585(U-NII 7)	215.88	260.090	≤ 320
159	6745(U-NII 7)	286.05	293.555	≤ 320
159	6745(U-NII 8)	26.05	33.555	≤ 320
191	6905(U-NII 7)	125.29	134.340	≤ 320
191	6905(U-NII 8)	185.29	194.340	≤ 320

802.11be\_EHT320\_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	99% BW Limit (MHz)
31	6105	311.07	330.010	≤ 320
63	6265	310.80	330.700	≤ 320
95	6425(U-NII 5)	155.76	165.105	≤ 320
95	6425(U-NII 6)	100.00	100.000	≤ 320
95	6425(U-NII 7)	55.76	65.105	≤ 320
127	6585(U-NII 6)	96.02	104.960	≤ 320
127	6585(U-NII 7)	216.02	224.960	≤ 320
159	6745(U-NII 7)	285.89	294.450	≤ 320
159	6745(U-NII 8)	25.89	34.450	≤ 320
191	6905(U-NII 7)	125.41	133.405	≤ 320
191	6905(U-NII 8)	185.41	193.405	≤ 320

Note: 99% and 26 dB bandwidth for all bandwidths compliance to 320 MHz maximum bandwidth, only 99% BW measurement can be used for the 320 MHz mode.

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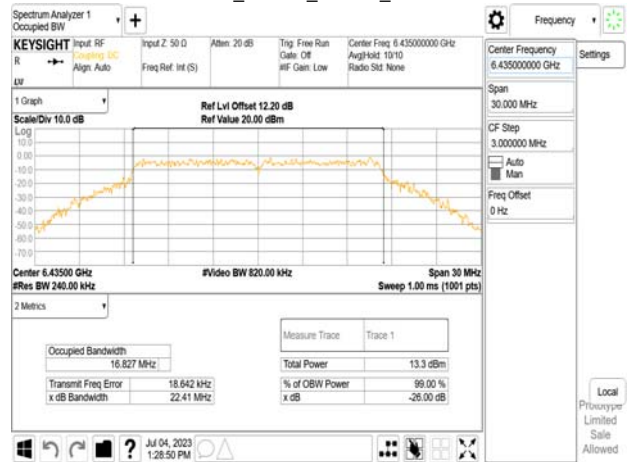
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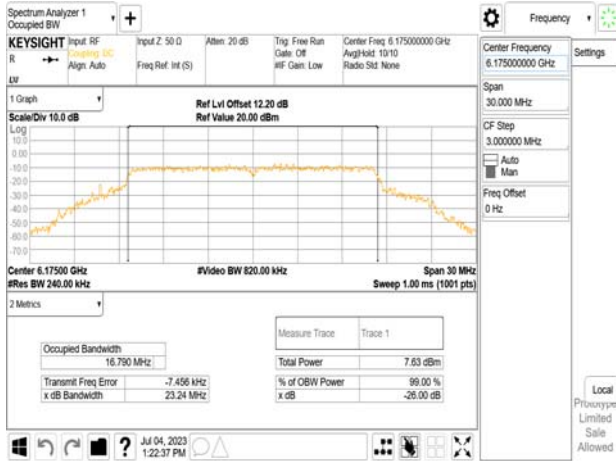
802.11a\_20MHz\_Chain0\_5955MHz



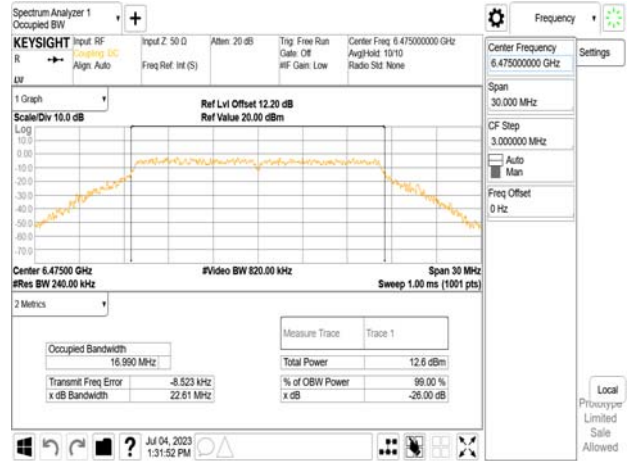
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802.11a\_20MHz\_Chain0\_6175MHz



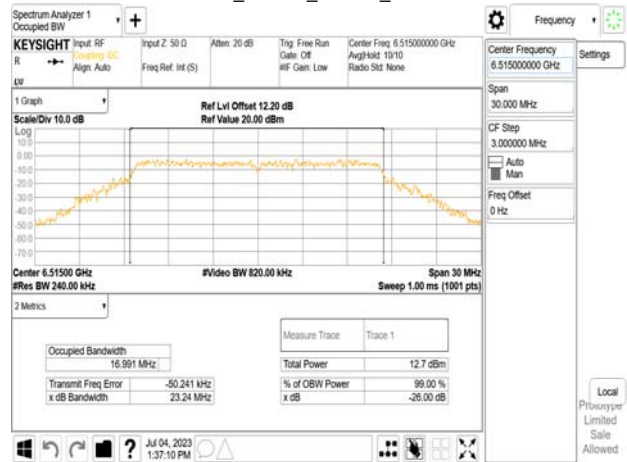
802.11a\_20MHz\_Chain0\_6475MHz



802.11a\_20MHz\_Chain0\_6415MHz



802.11a\_20MHz\_Chain0\_6515MHz



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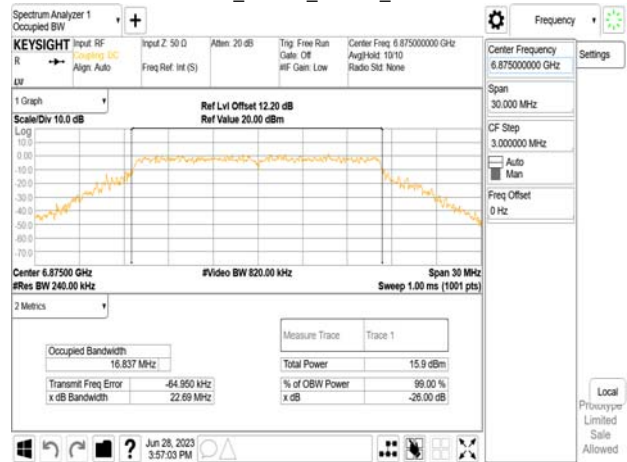
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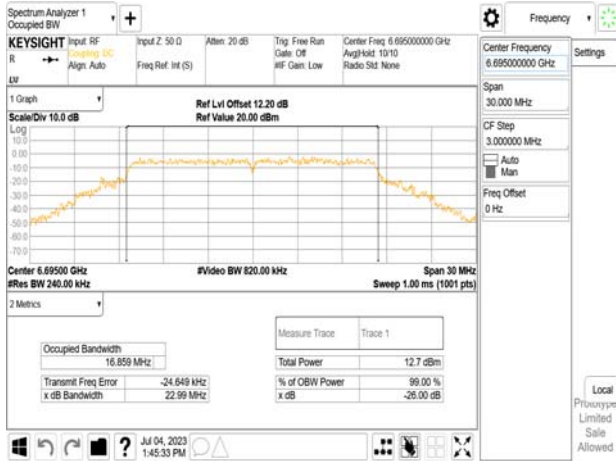
802.11a\_20MHz\_Chain0\_6535MHz



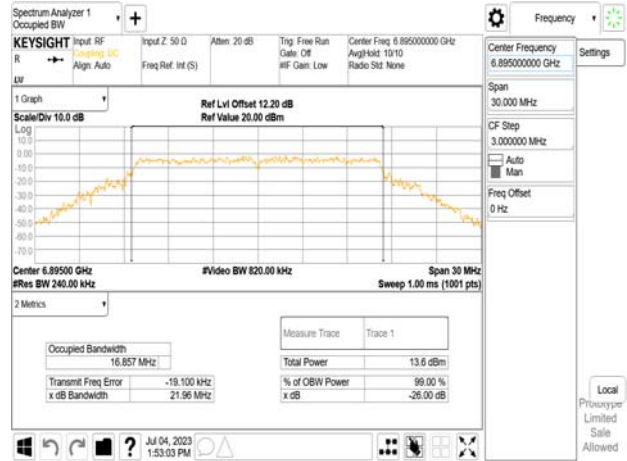
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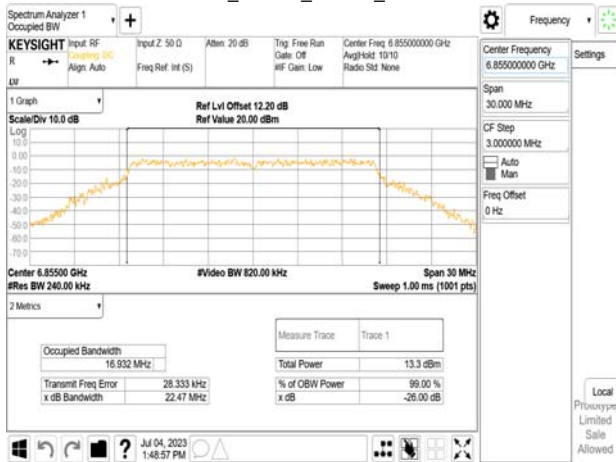
802.11a\_20MHz\_Chain0\_6695MHz



802.11a\_20MHz\_Chain0\_6895MHz



802.11a\_20MHz\_Chain0\_6855MHz



802.11a\_20MHz\_Chain0\_6995MHz

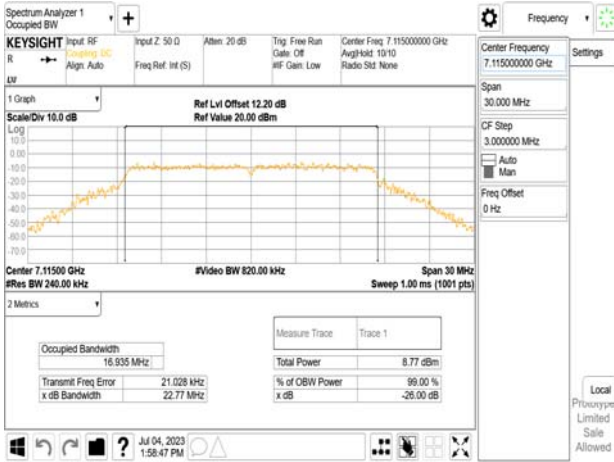


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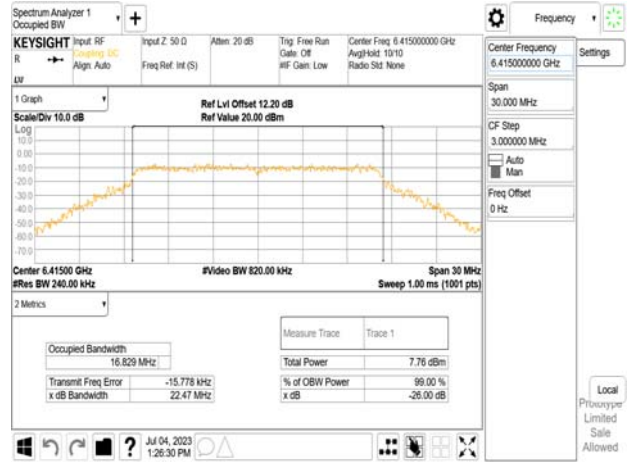
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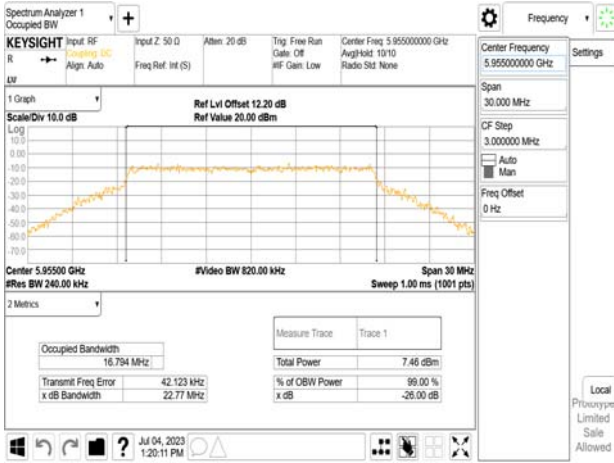
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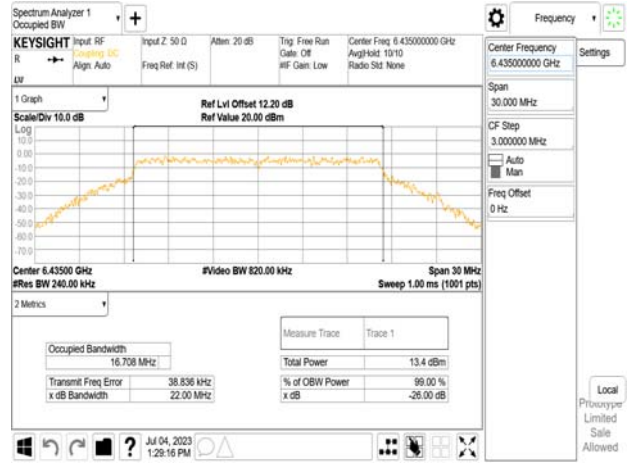
802.11a\_20MHz\_Chain1\_6415MHz



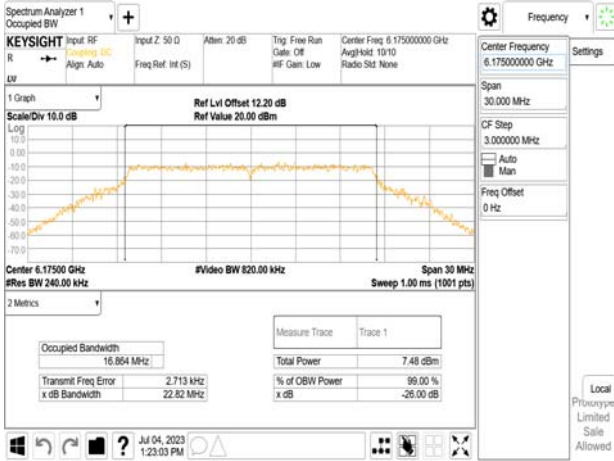
802.11a\_20MHz\_Chain1\_5955MHz



802.11a\_20MHz\_Chain1\_6435MHz



802.11a\_20MHz\_Chain1\_6175MHz



802.11a\_20MHz\_Chain1\_6475MHz

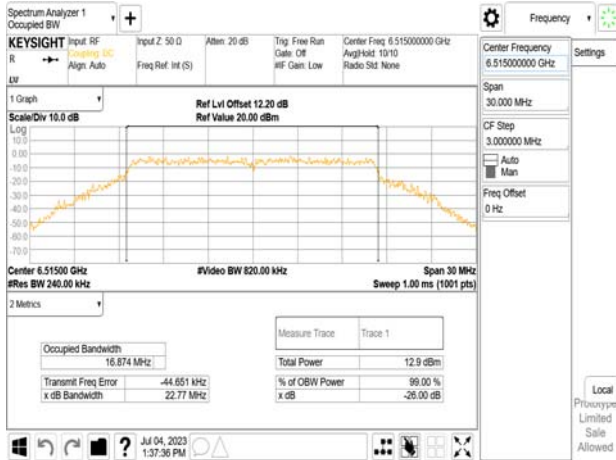


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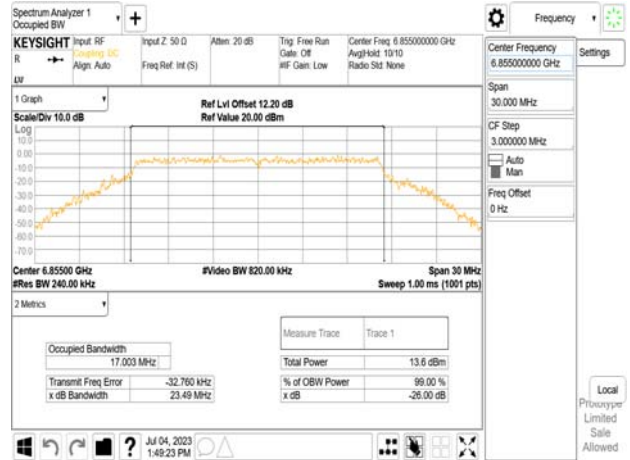
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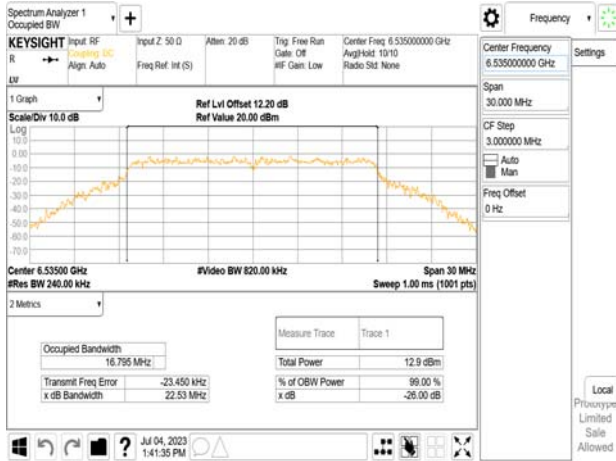
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802.11a\_20MHz\_Chain1\_6855MHz



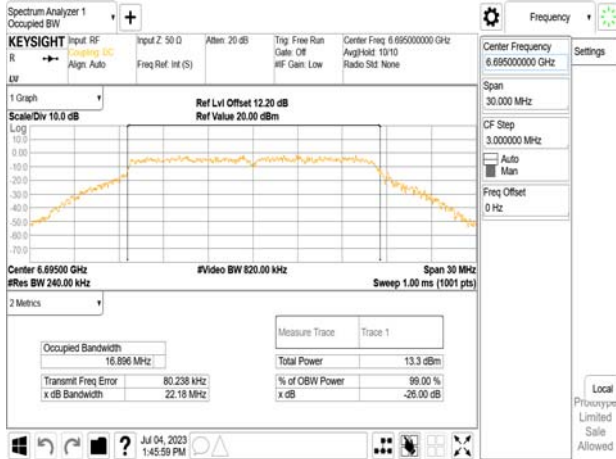
802.11a\_20MHz\_Chain1\_6535MHz



802.11a\_20MHz\_Chain1\_6875MHz



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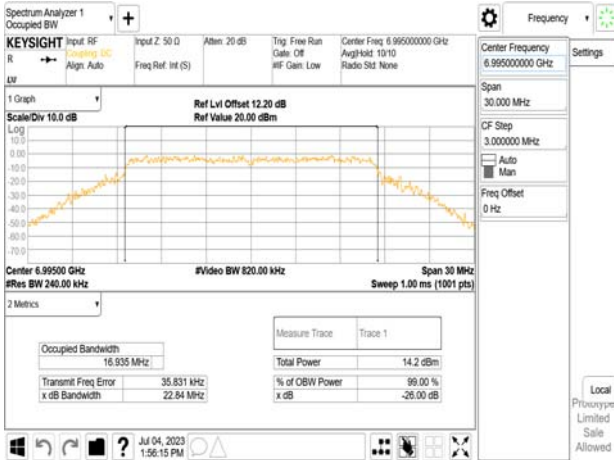


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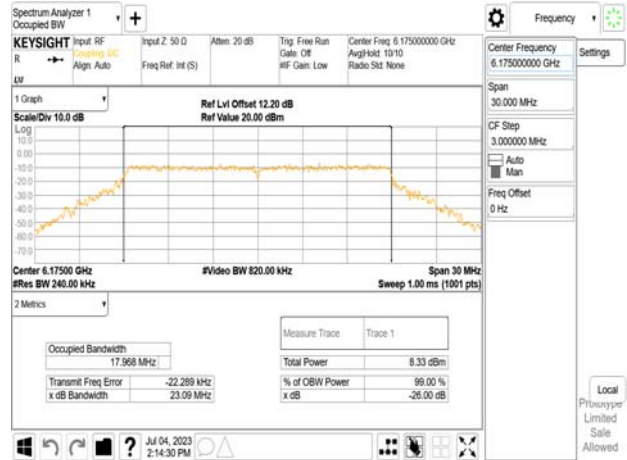
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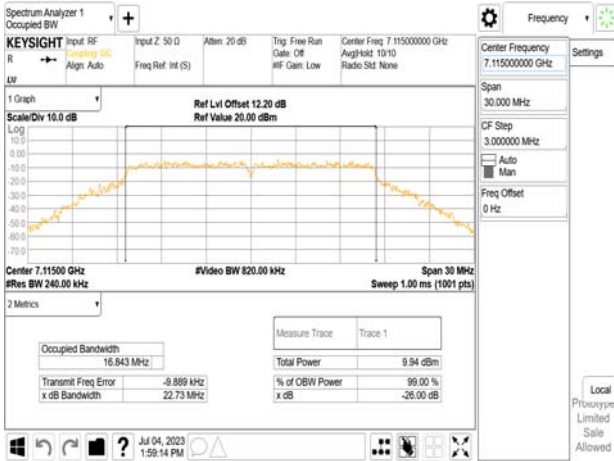
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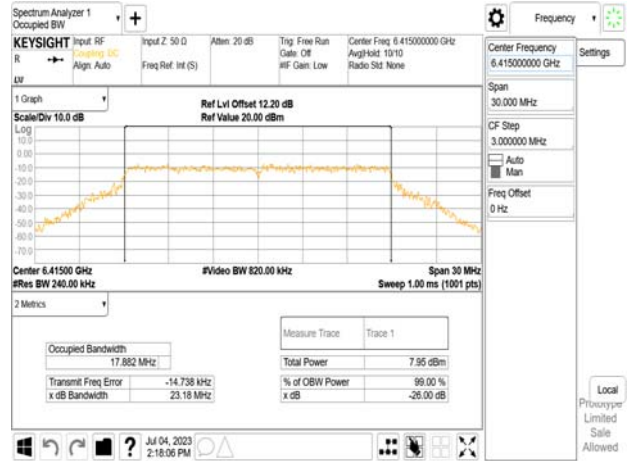
802.11n\_20MHz\_Chain0\_6175MHz



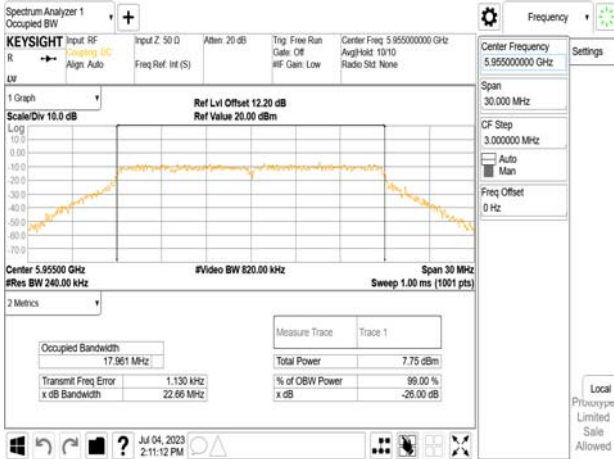
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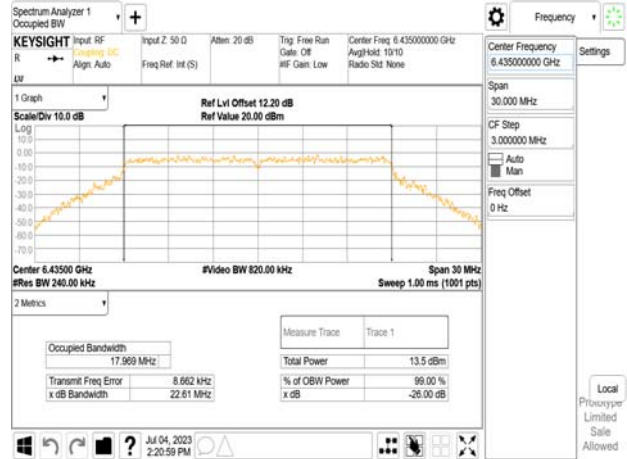
802.11n\_20MHz\_Chain0\_6415MHz



802.11n\_20MHz\_Chain0\_5955MHz



802.11n\_20MHz\_Chain0\_6435MHz

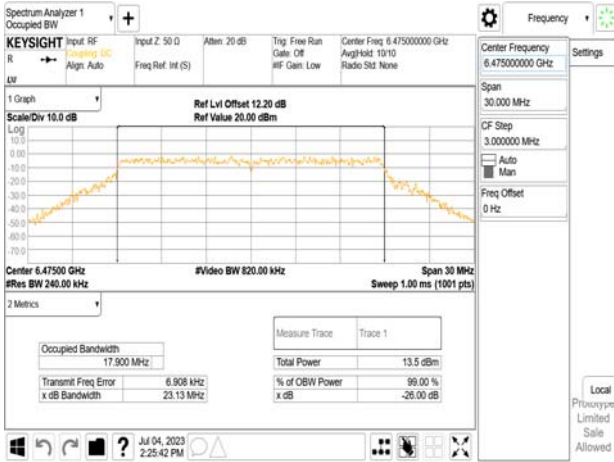


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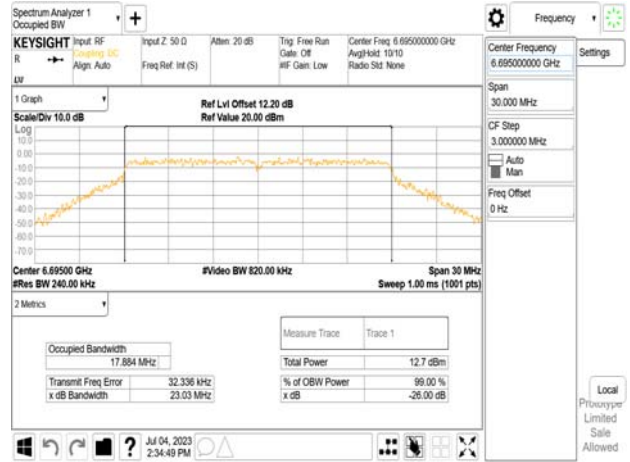
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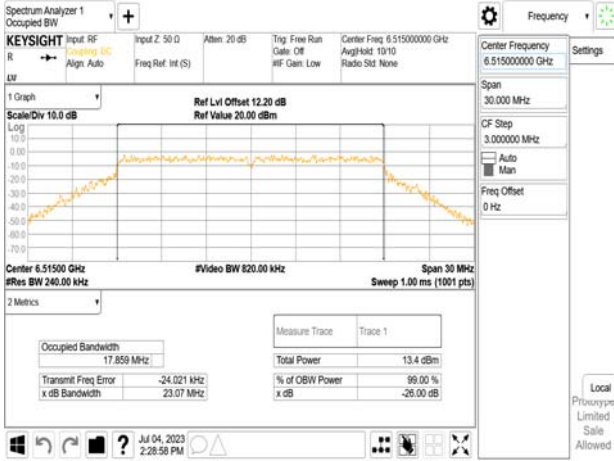
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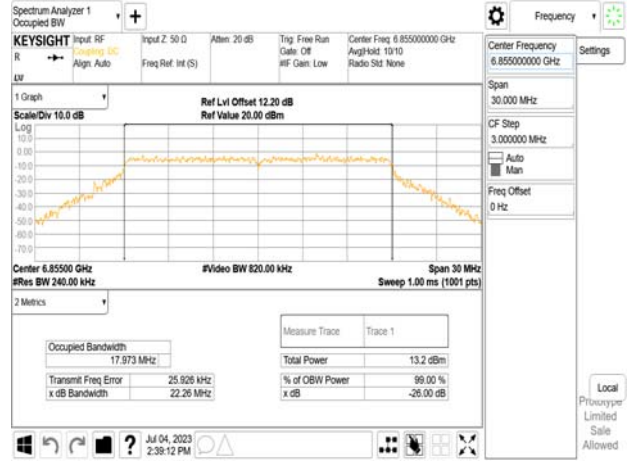
802.11n\_20MHz\_Chain0\_6695MHz



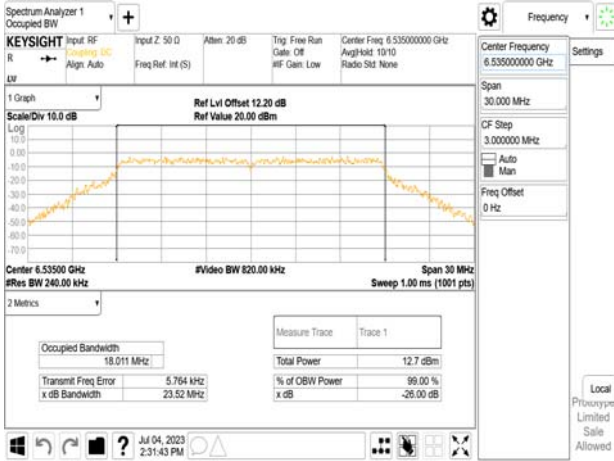
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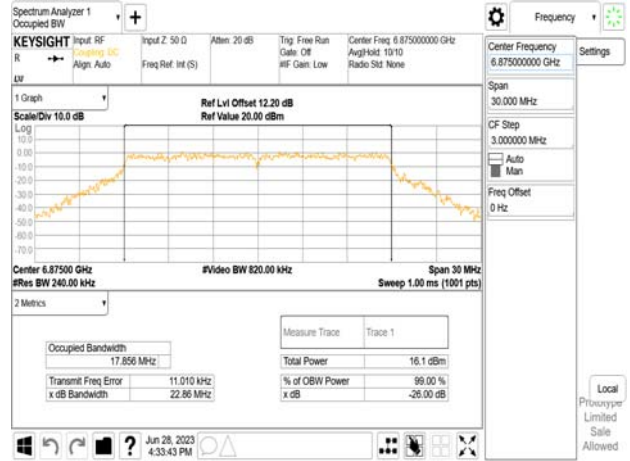
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802.11n\_20MHz\_Chain0\_6535MHz



802.11n\_20MHz\_Chain0\_6875MHz

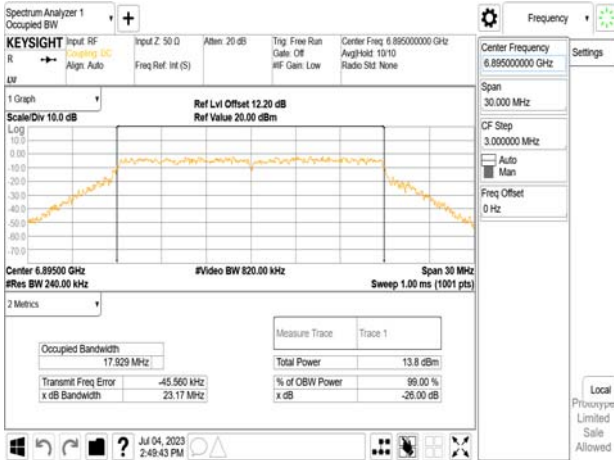


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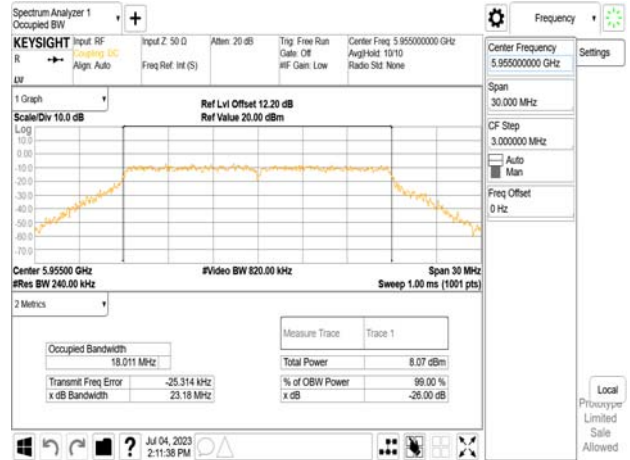
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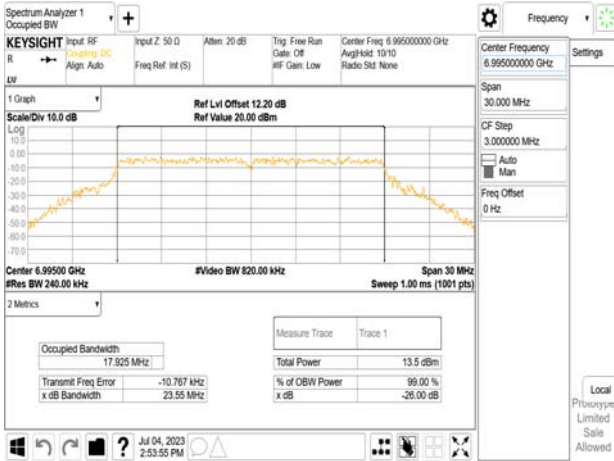
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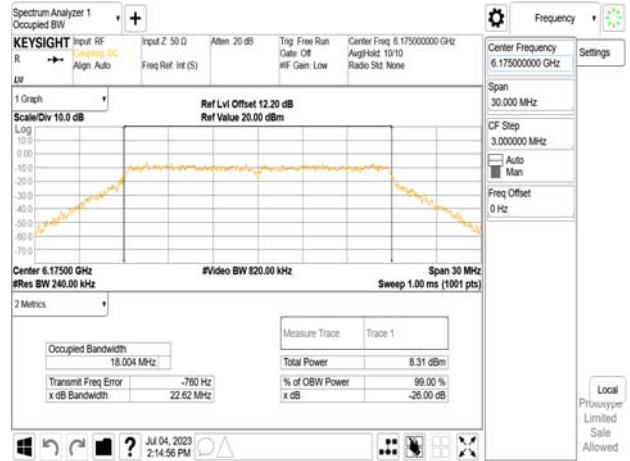
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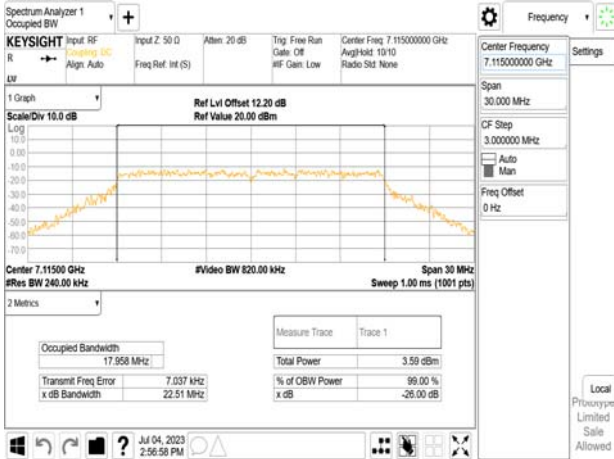
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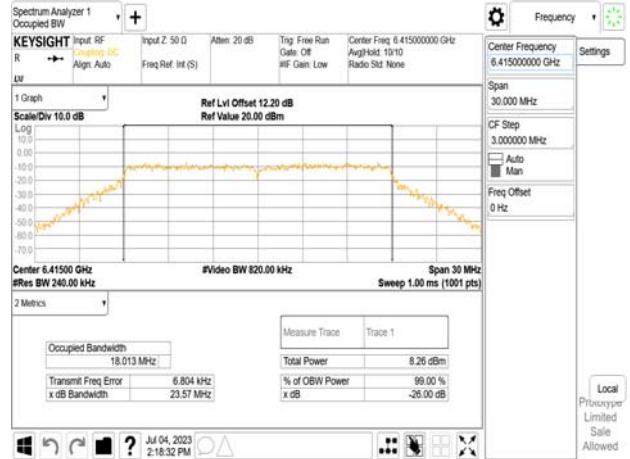
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802.11n\_20MHz\_Chain0\_7115MHz



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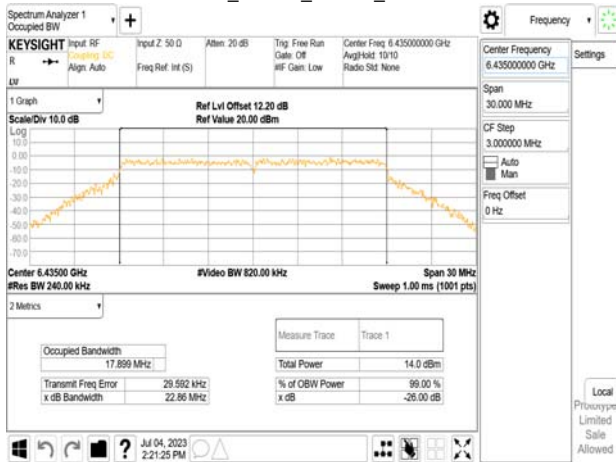


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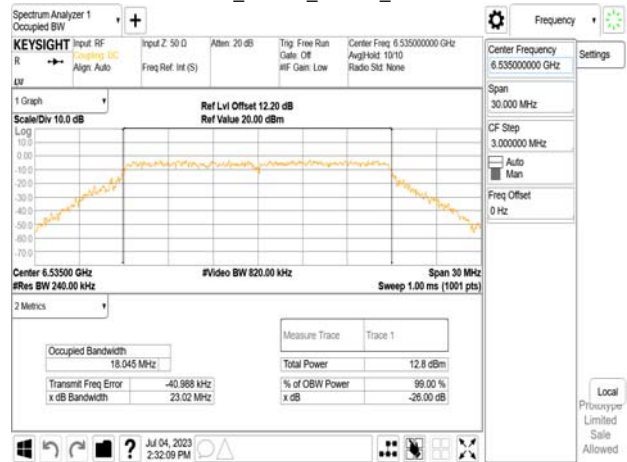
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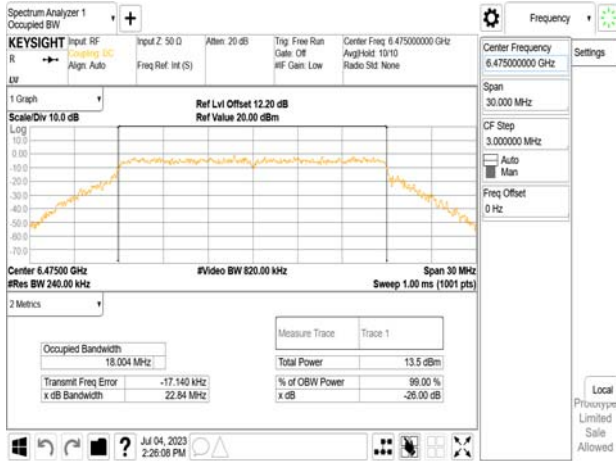
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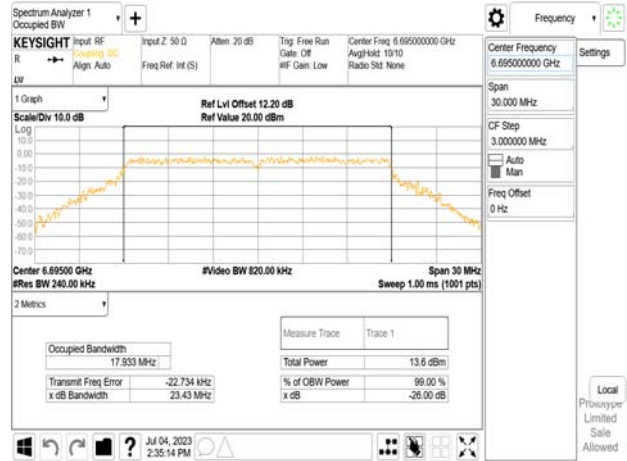
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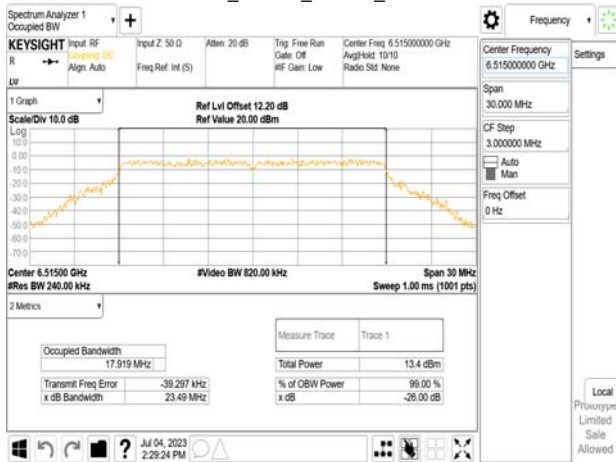
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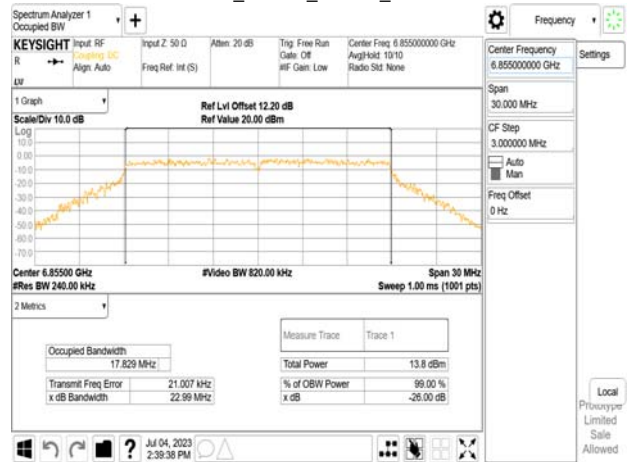
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802.11n\_20MHz\_Chain1\_6515MHz



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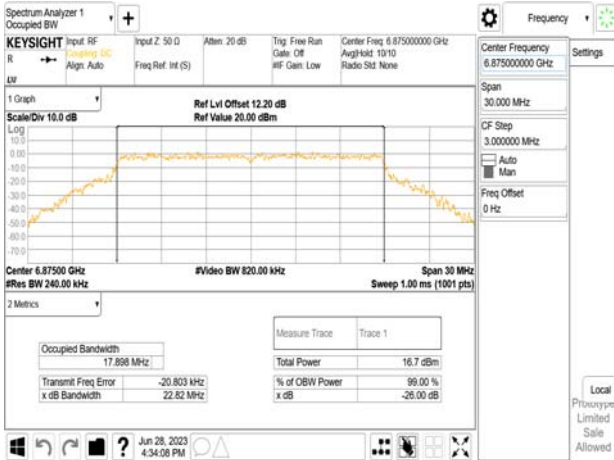


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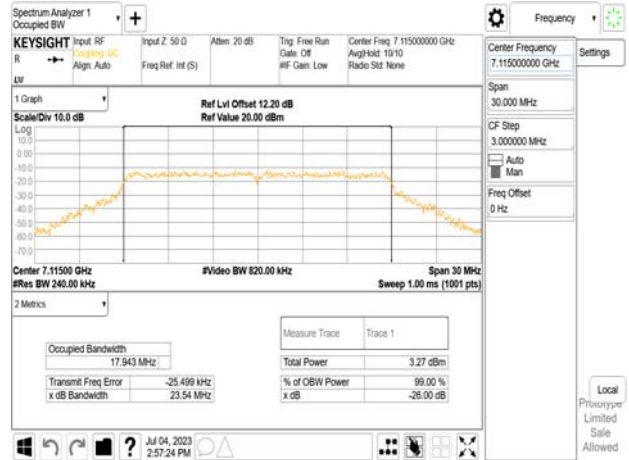
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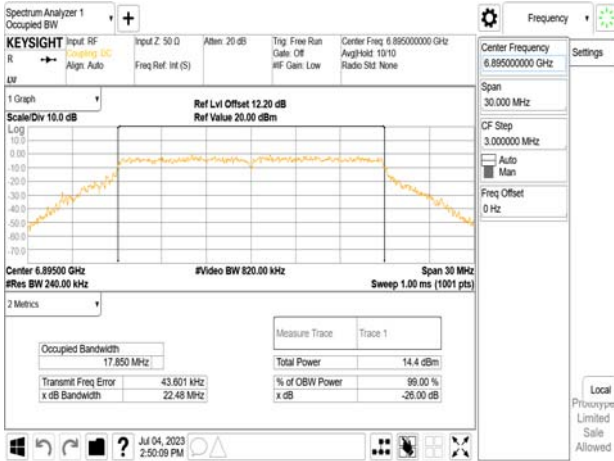
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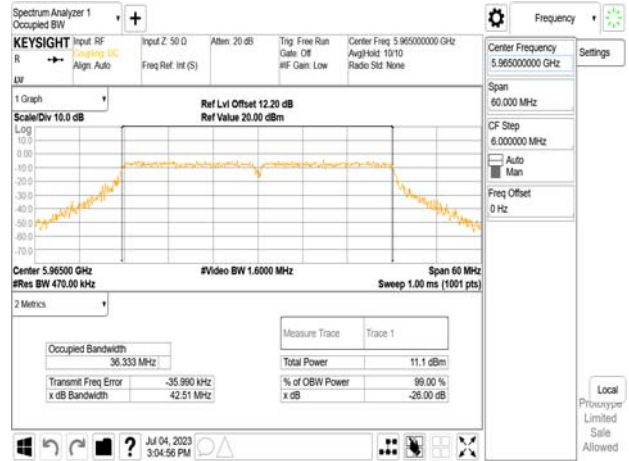
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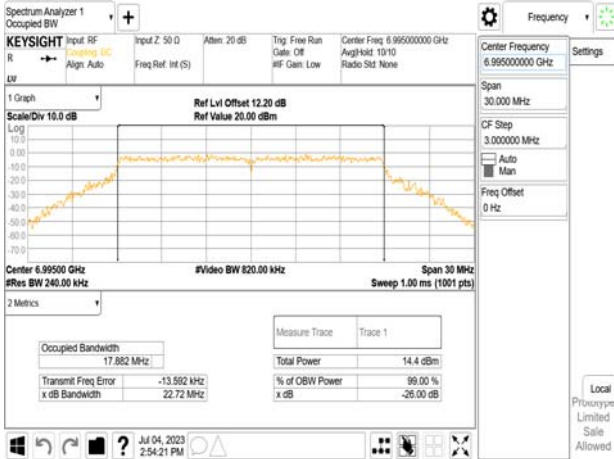
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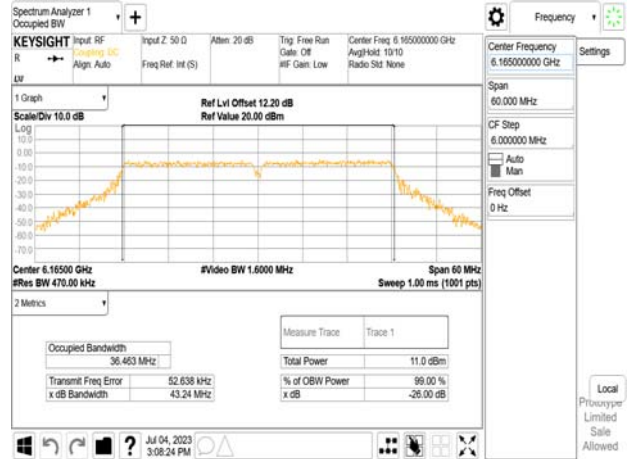
802.11n\_40MHz\_Chain0\_5965MHz



802.11n\_20MHz\_Chain1\_6995MHz



802.11n\_40MHz\_Chain0\_6165MHz



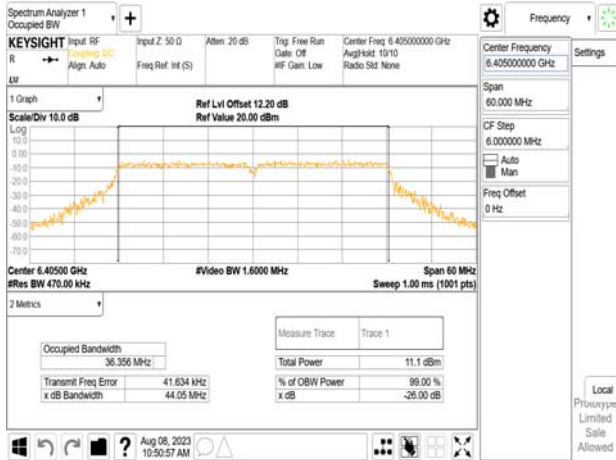
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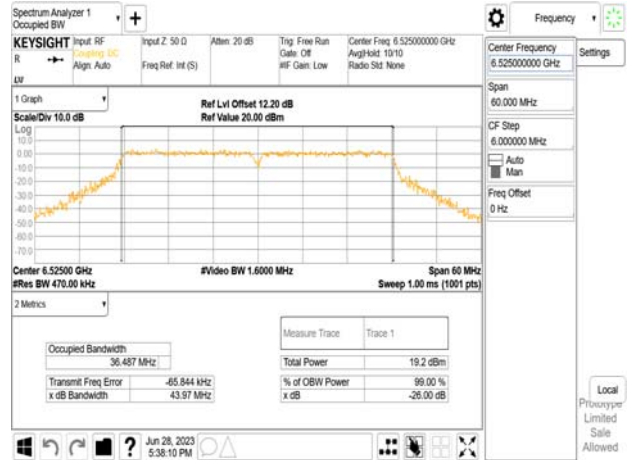
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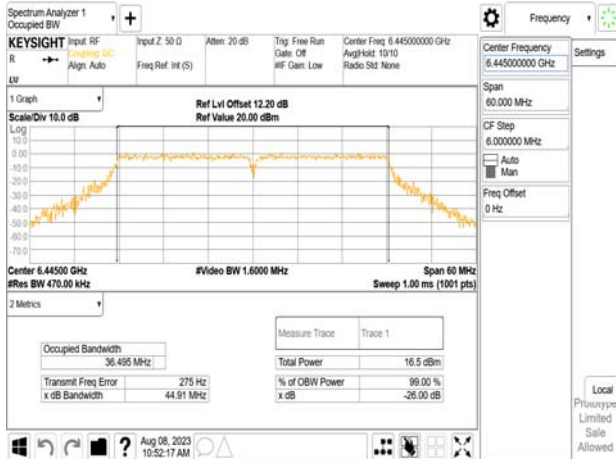
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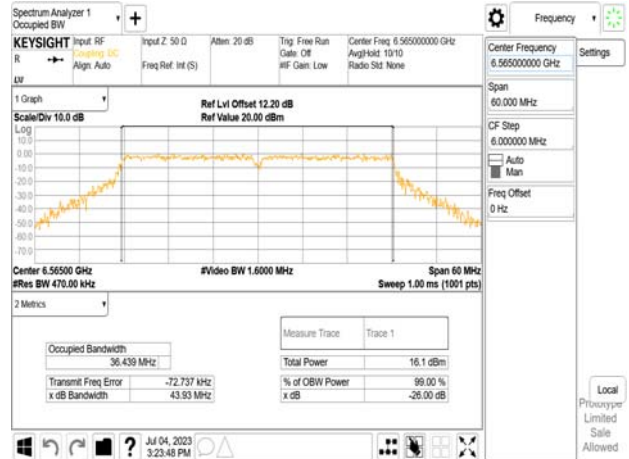
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802.11n\_40MHz\_Chain0\_6445MHz



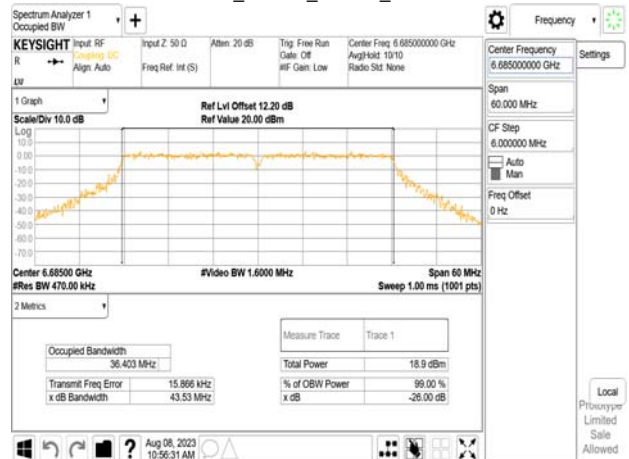
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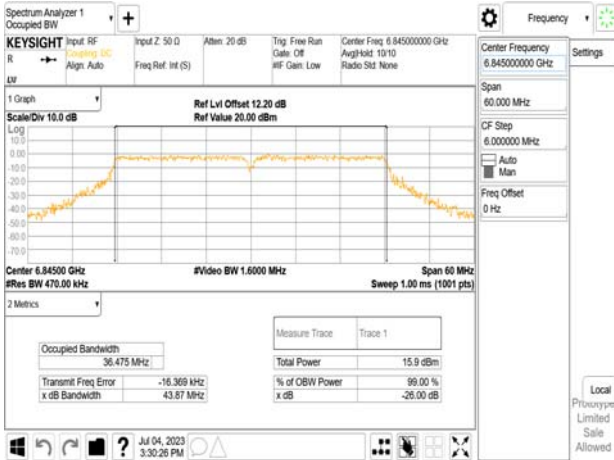


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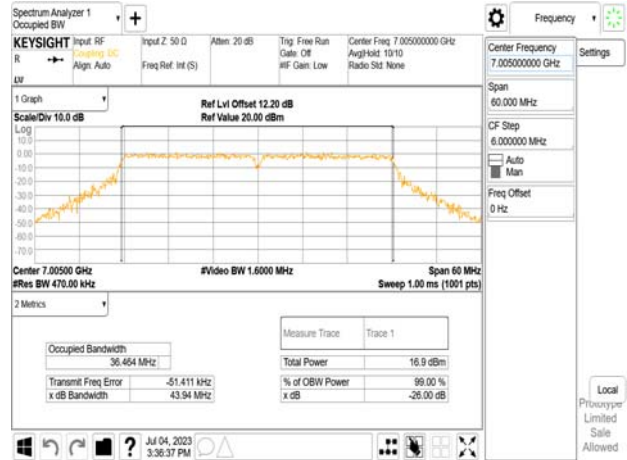
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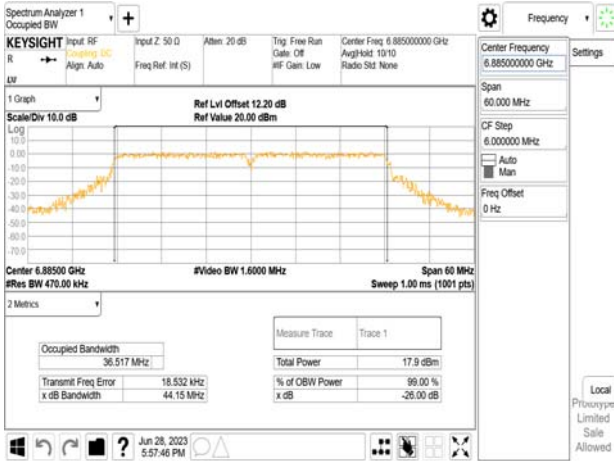
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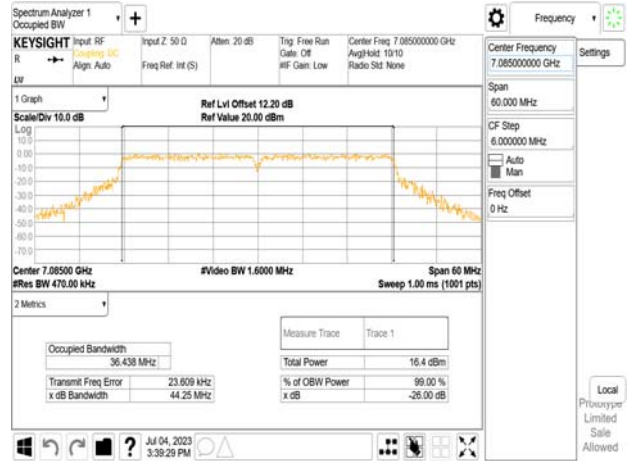
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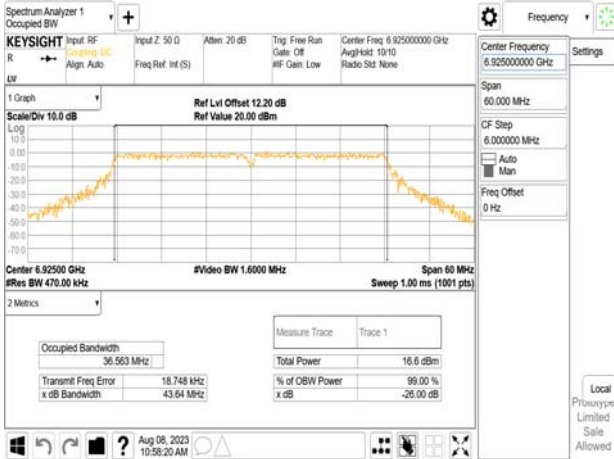
802.11n\_40MHz\_Chain0\_6885MHz



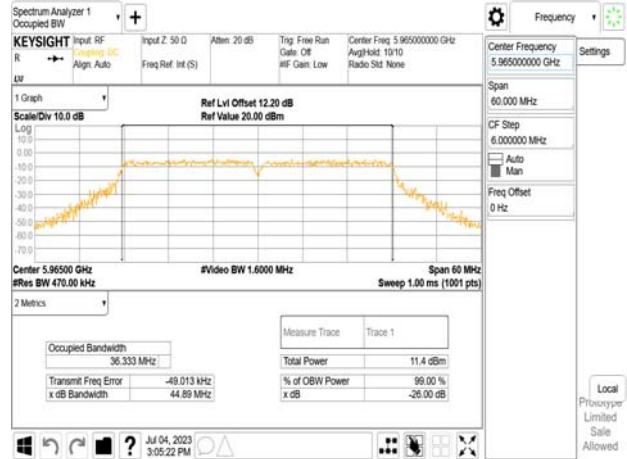
802.11n\_40MHz\_Chain0\_7085MHz



802.11n\_40MHz\_Chain0\_6925MHz



802.11n\_40MHz\_Chain1\_5965MHz



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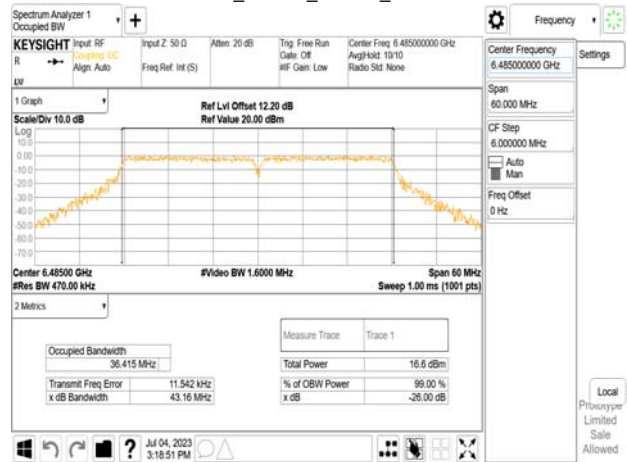
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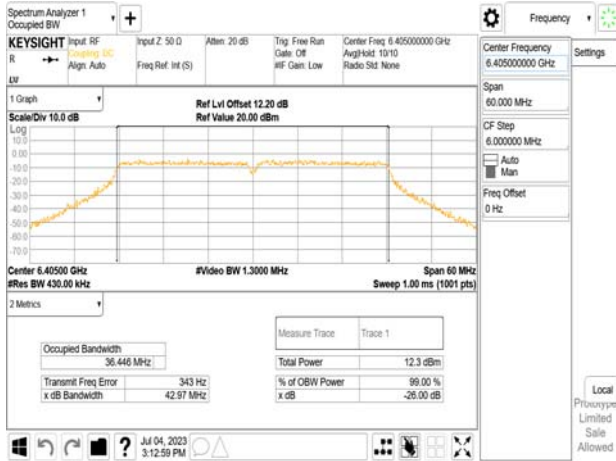
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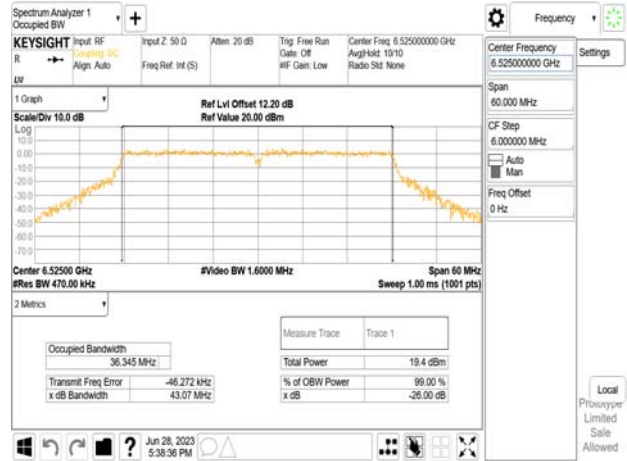
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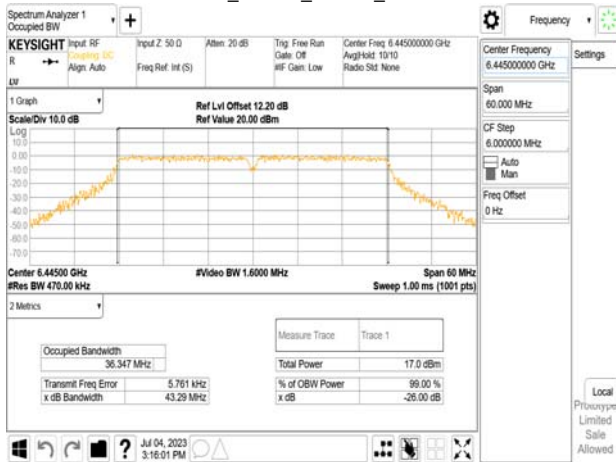
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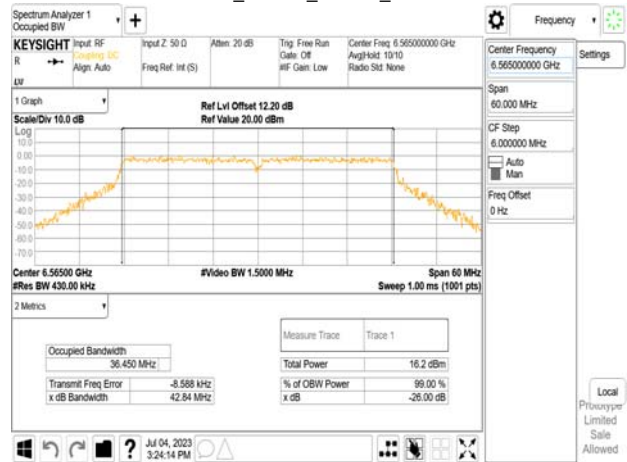
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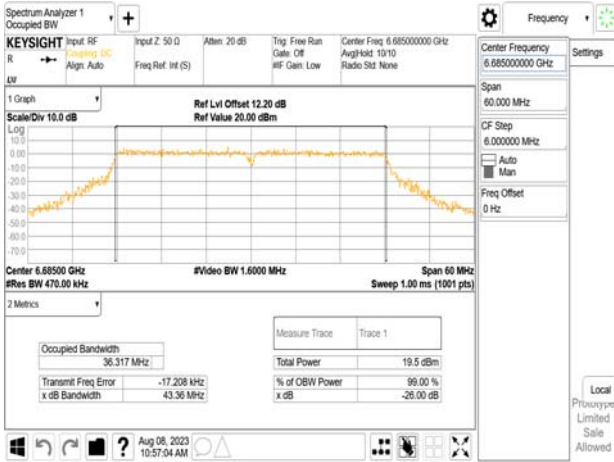


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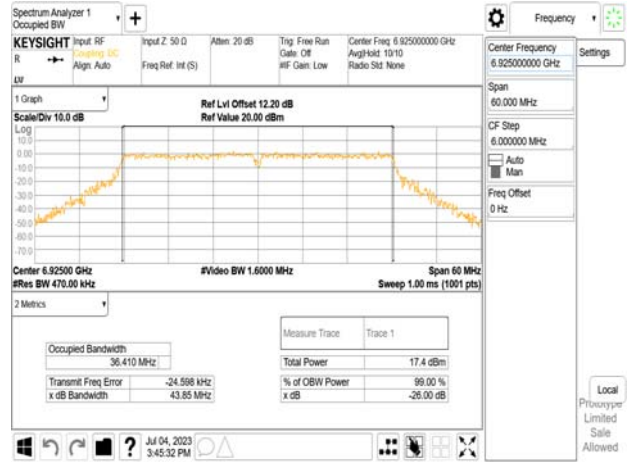
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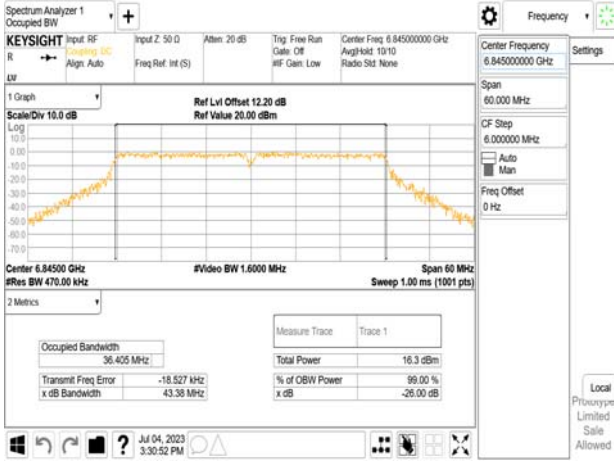
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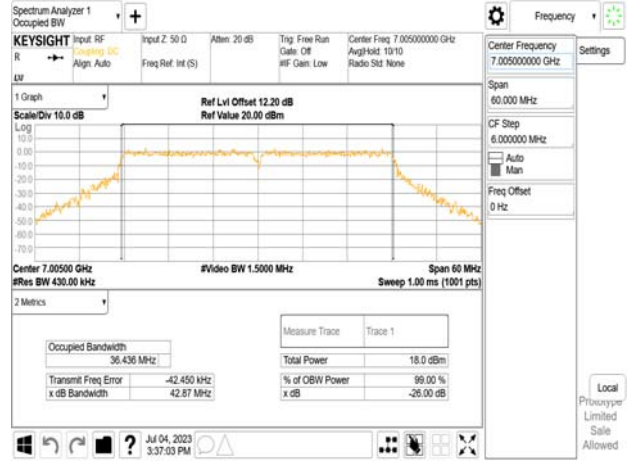
802.11n\_40MHz\_Chain1\_6925MHz



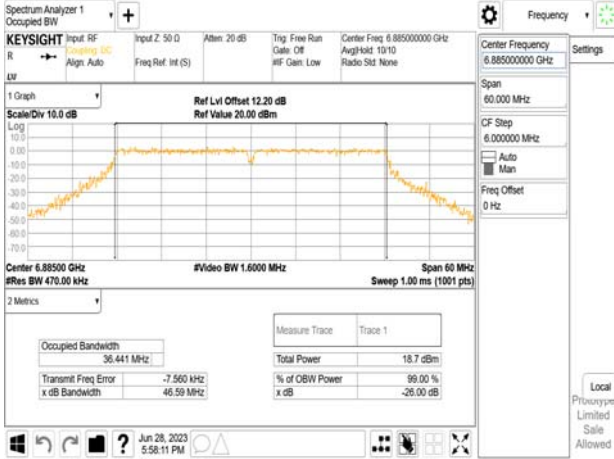
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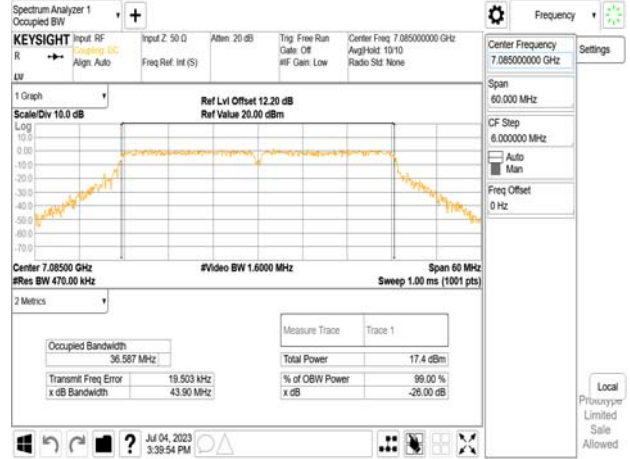
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802.11n\_40MHz\_Chain1\_6885MHz



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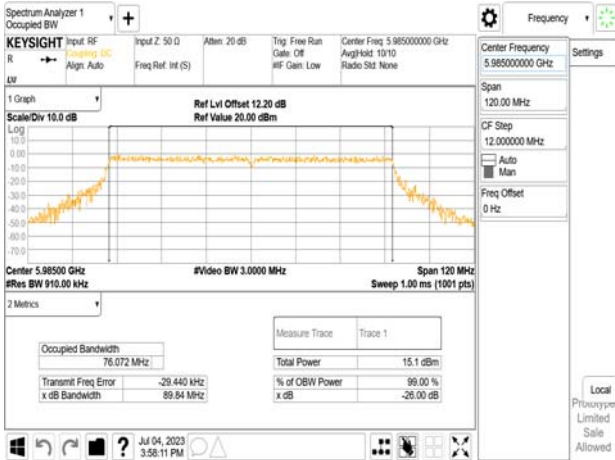


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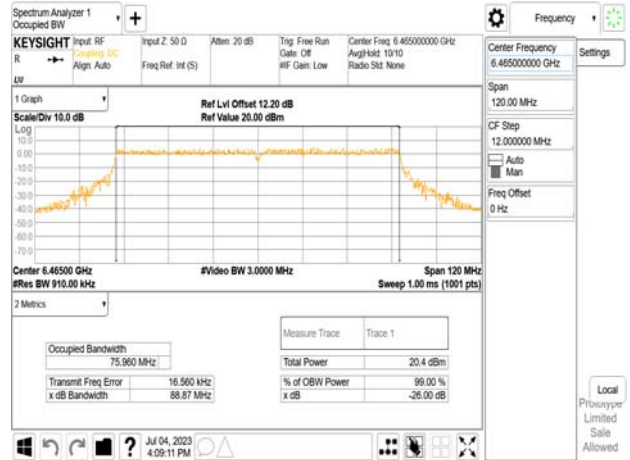
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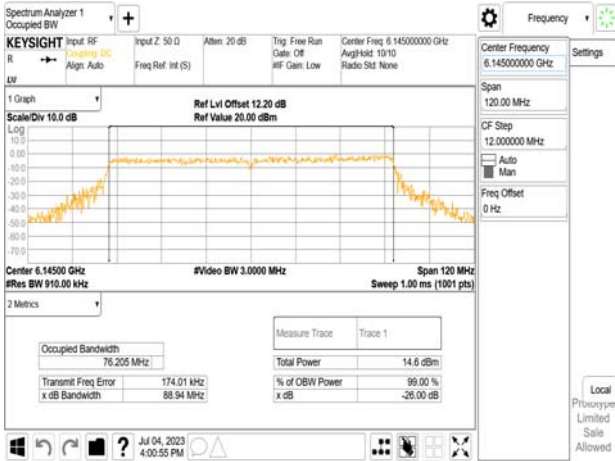
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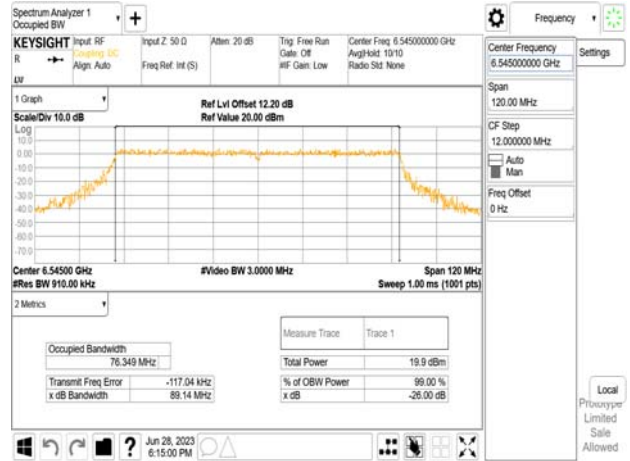
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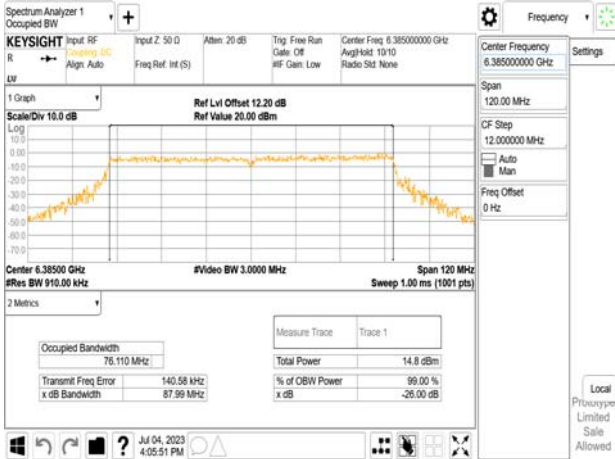
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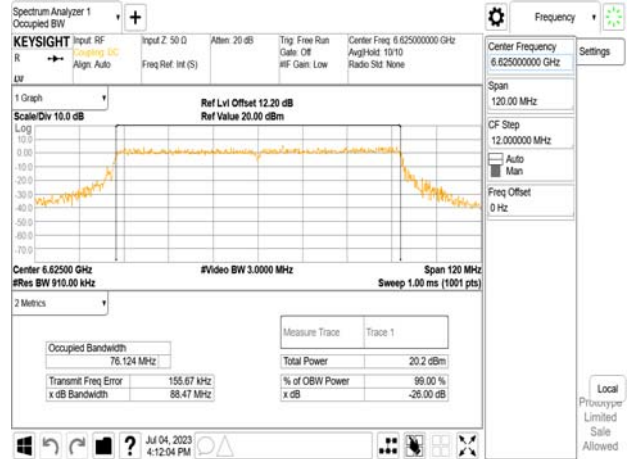
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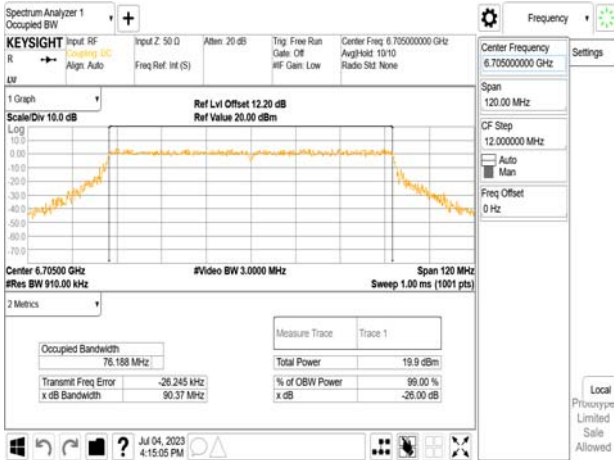


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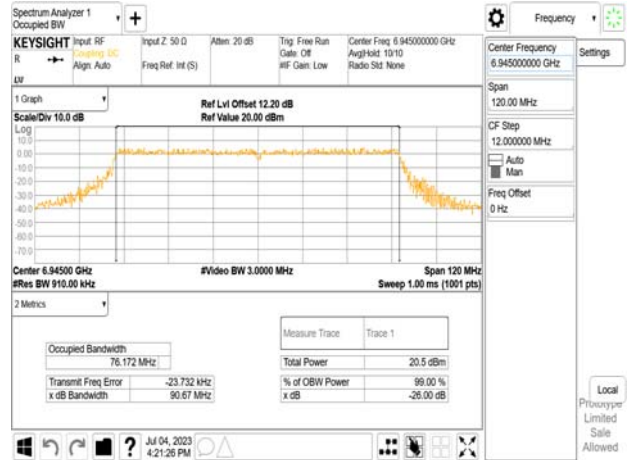
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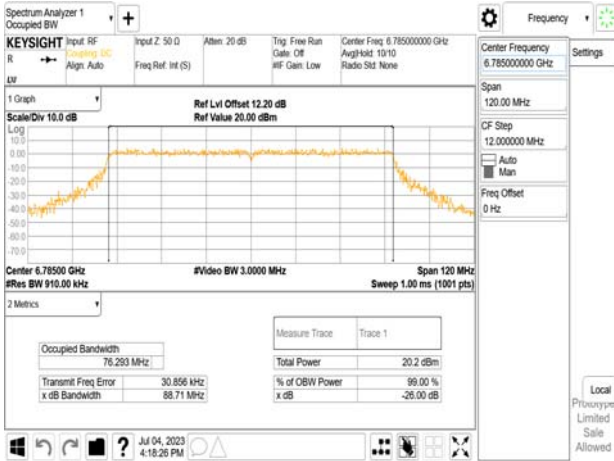
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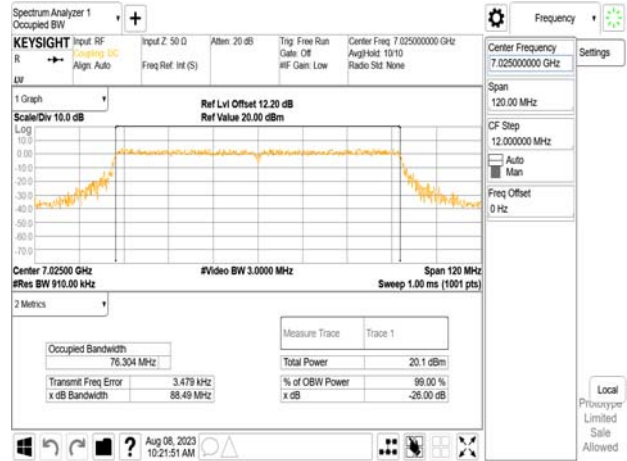
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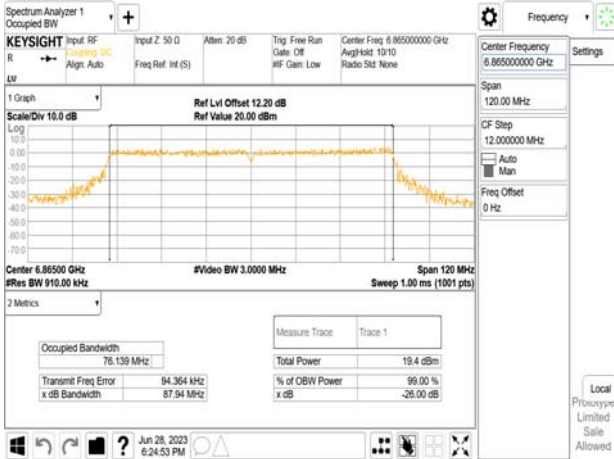
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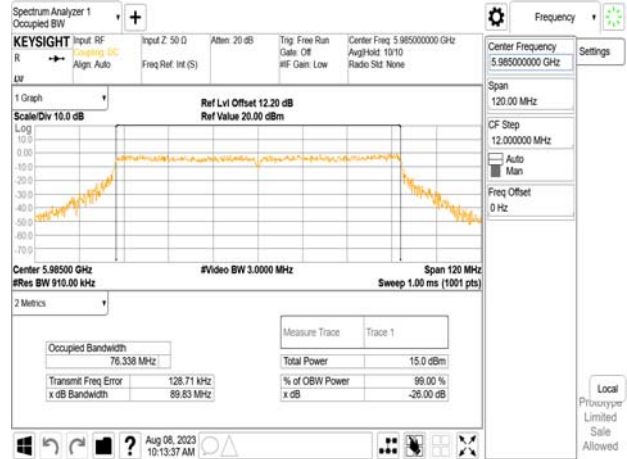
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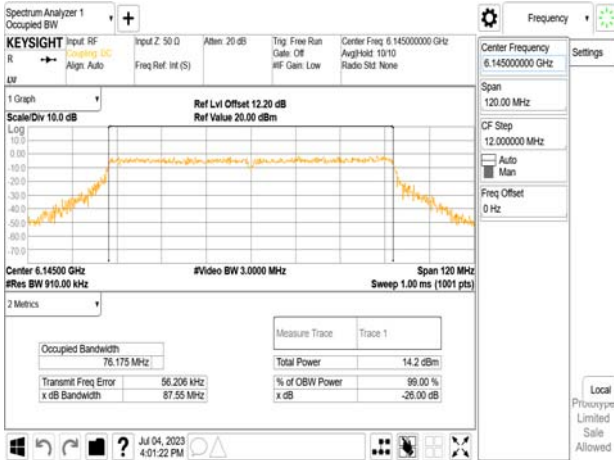


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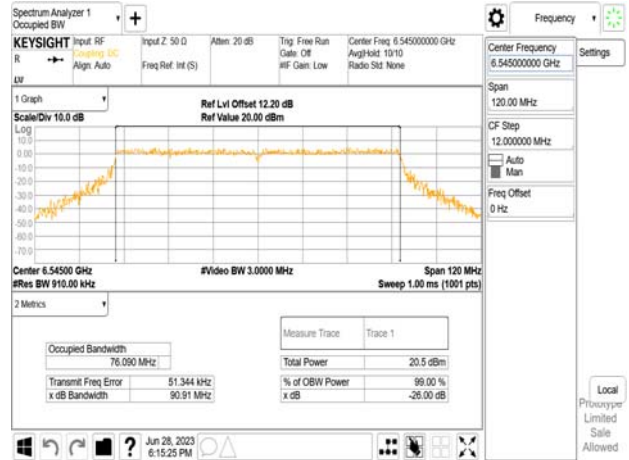
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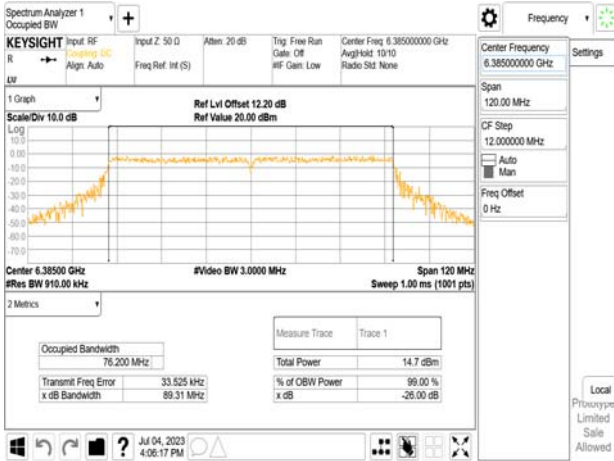
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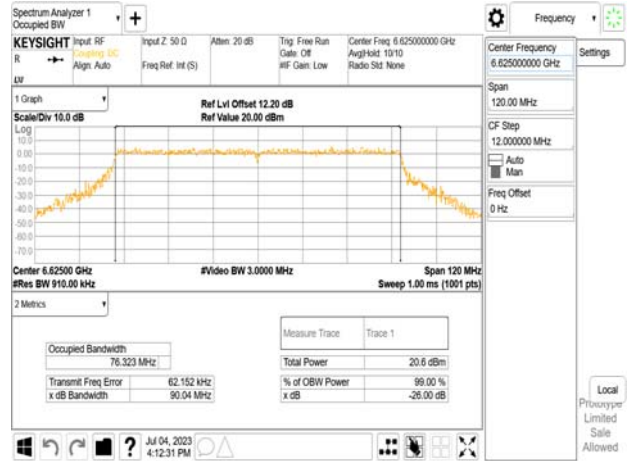
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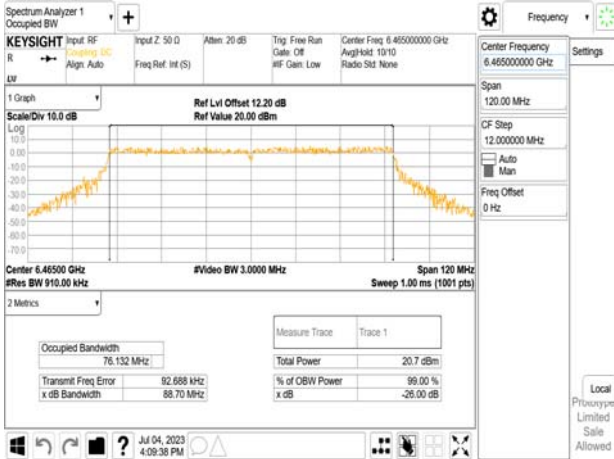
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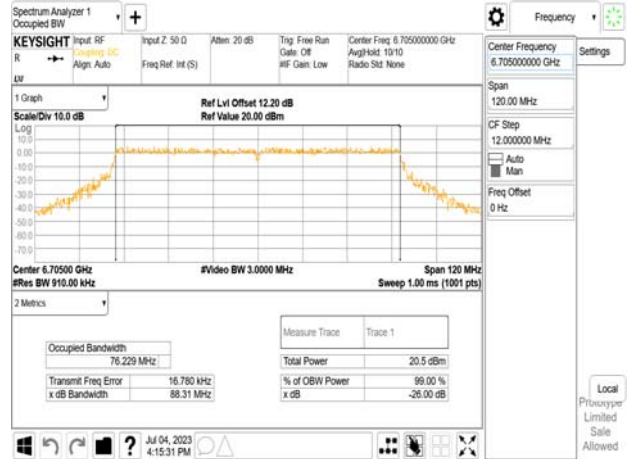
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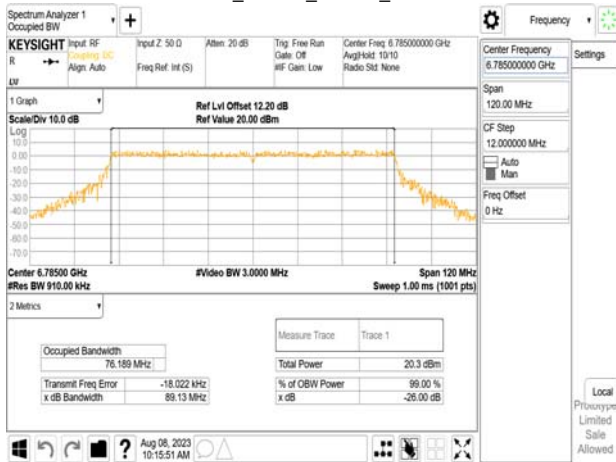


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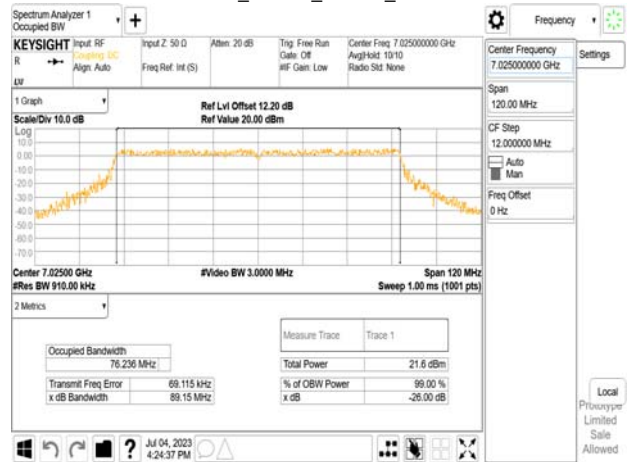
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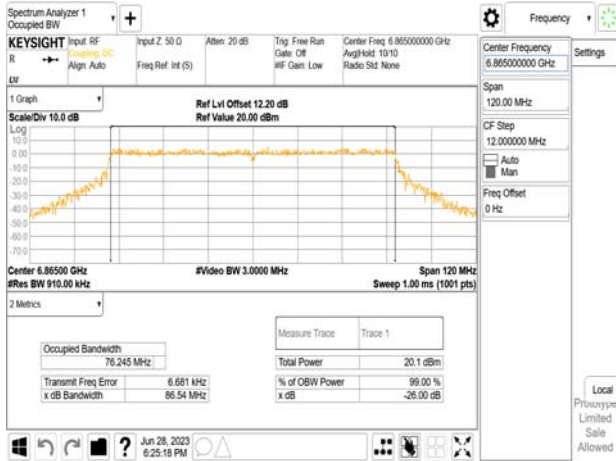
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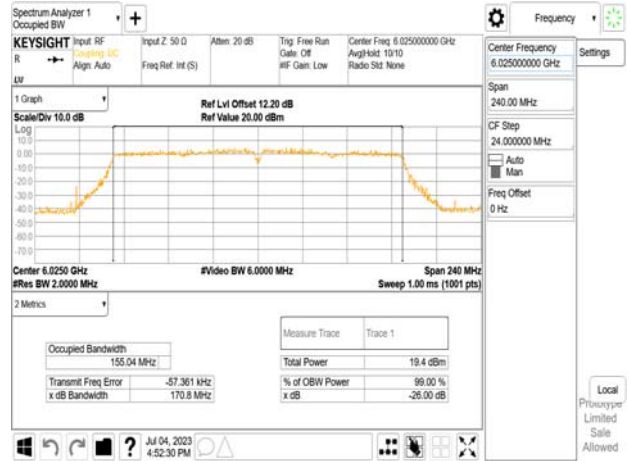
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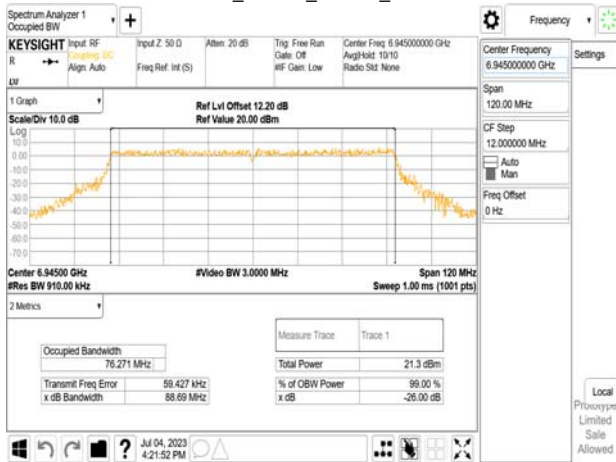
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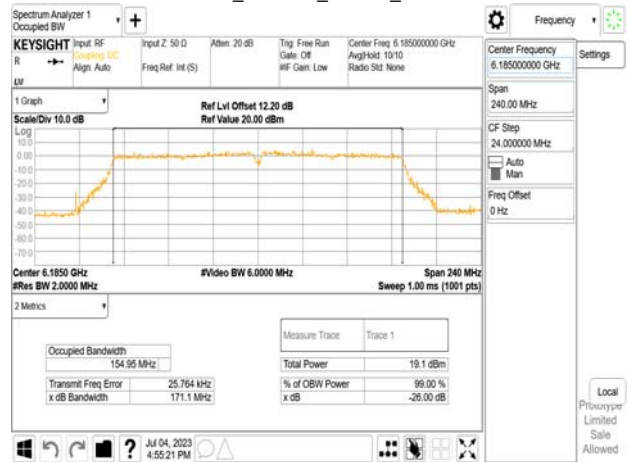
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802.11ac\_80MHz\_Chain1\_6945MHz



802.11ac\_160MHz\_Chain0\_6185MHz



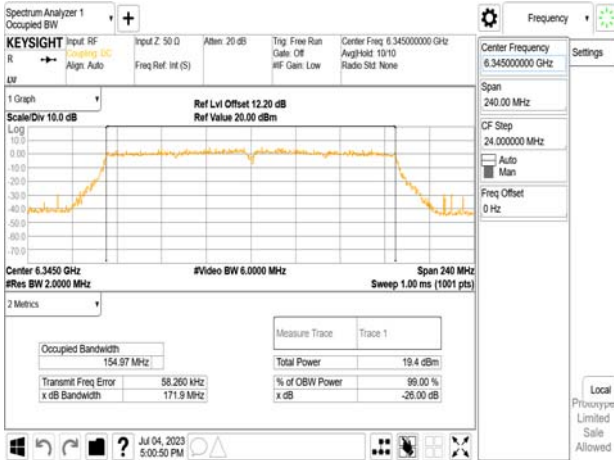
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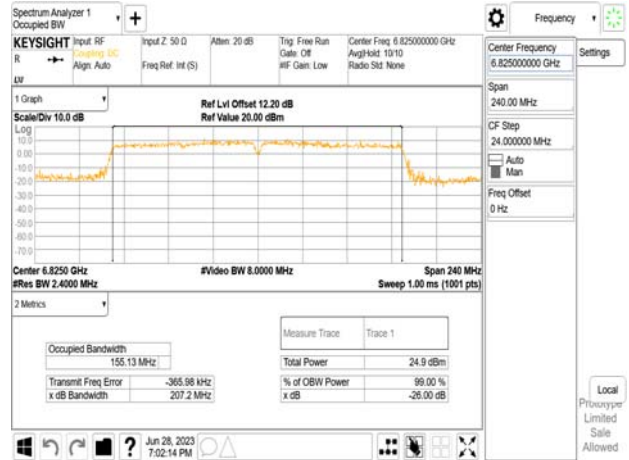
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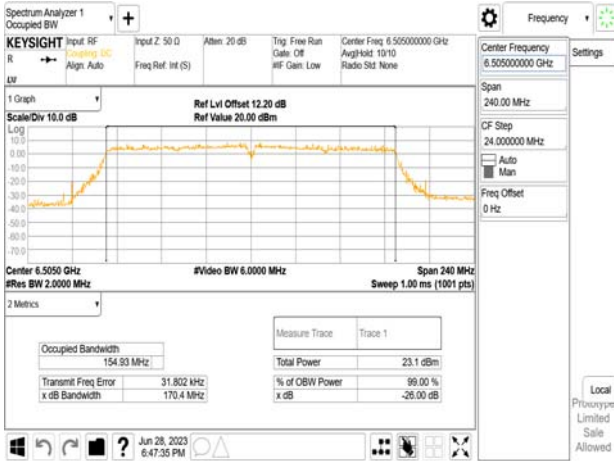
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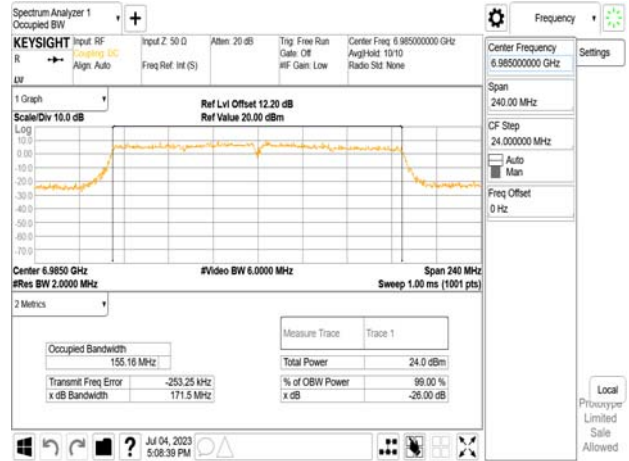
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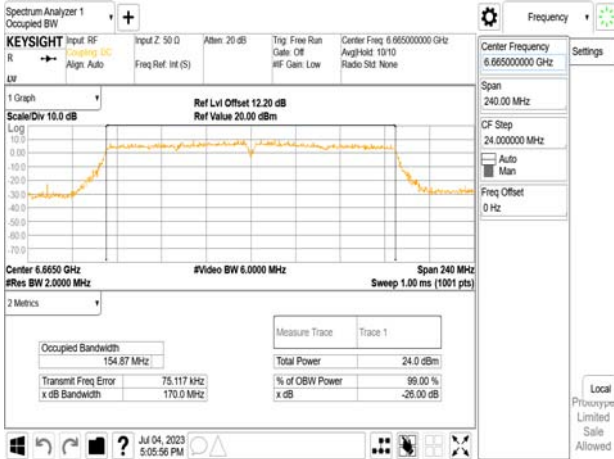
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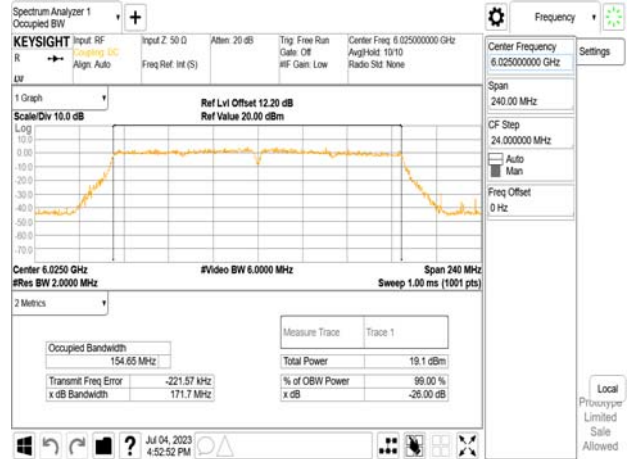
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802.11ac\_160MHz\_Chain0\_6665MHz



802.11ac\_160MHz\_Chain1\_6025MHz

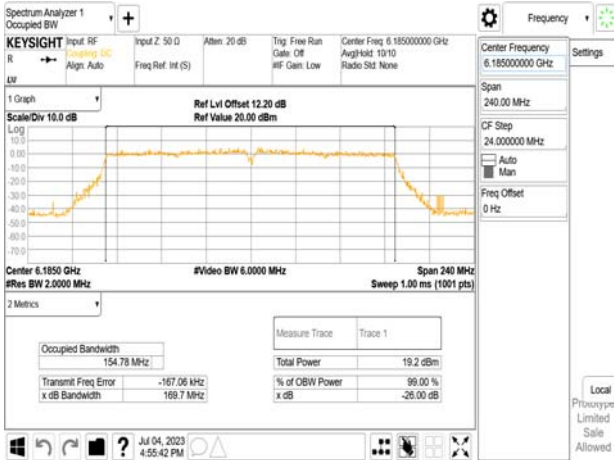


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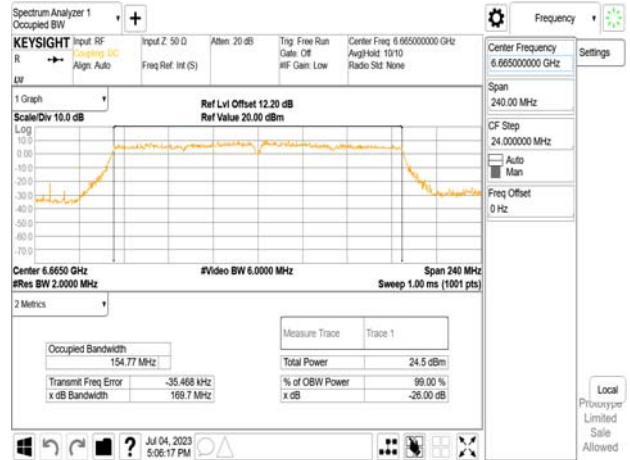
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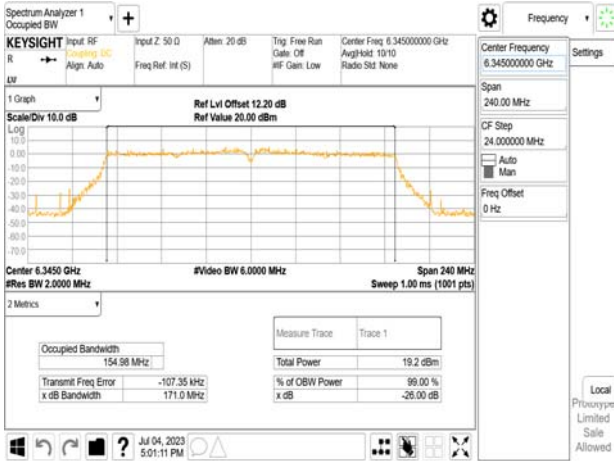
802.11ac\_160MHz\_Chain1\_6185MHz



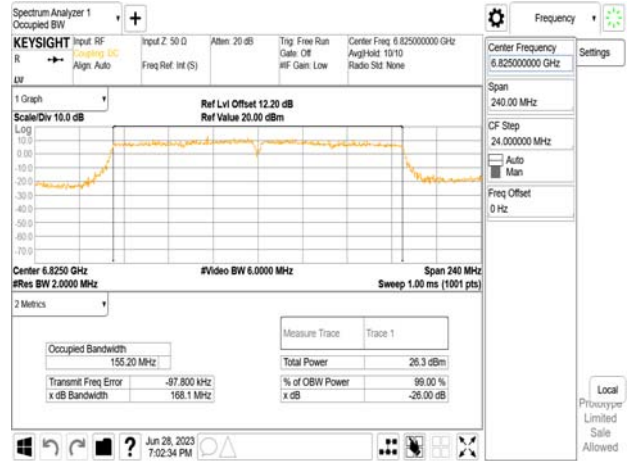
802.11ac\_160MHz\_Chain1\_6665MHz



802.11ac\_160MHz\_Chain1\_6345MHz



802.11ac\_160MHz\_Chain1\_6825MHz



802.11ac\_160MHz\_Chain1\_6505MHz



802.11ac\_160MHz\_Chain1\_6985MHz



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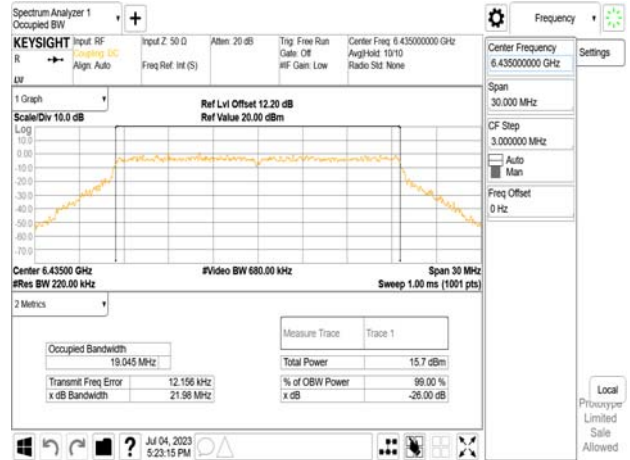
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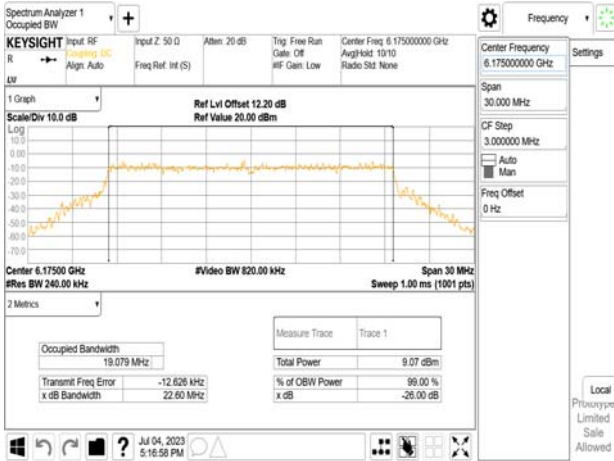
802.11be\_20MHz\_Chain0\_5955MHz



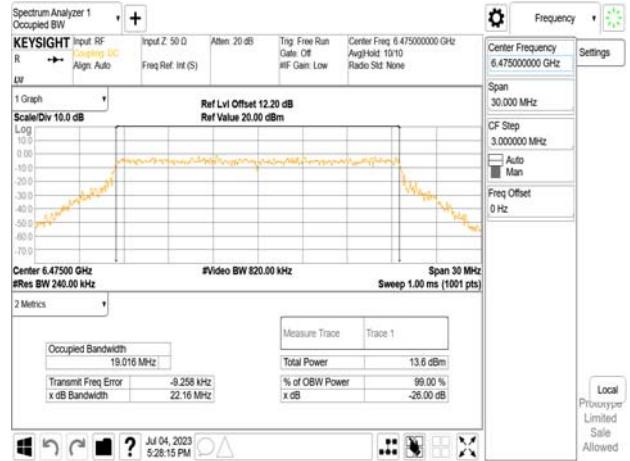
802.11be\_20MHz\_Chain0\_6435MHz



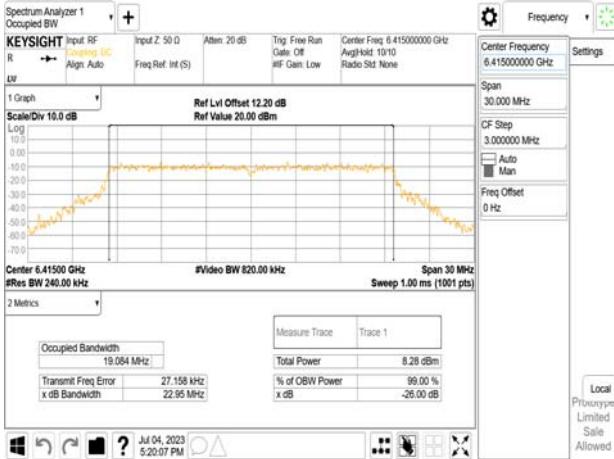
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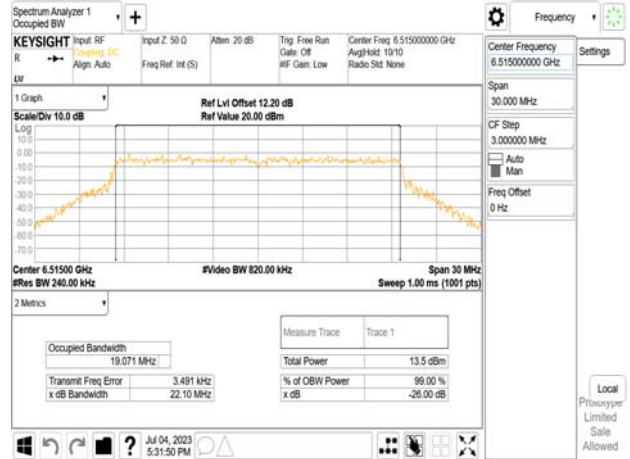
802.11be\_20MHz\_Chain0\_6475MHz



802.11be\_20MHz\_Chain0\_6415MHz



802.11be\_20MHz\_Chain0\_6515MHz

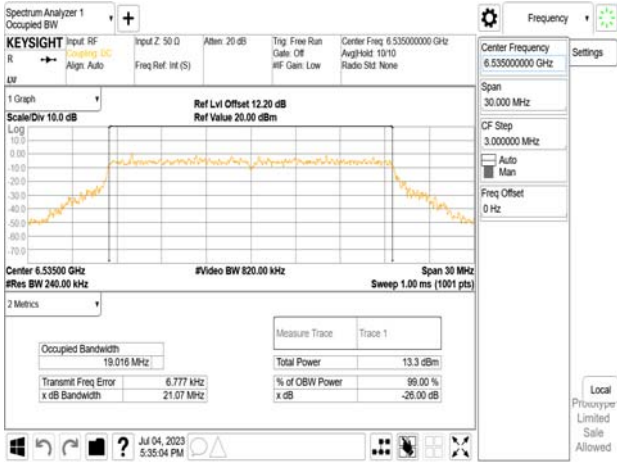


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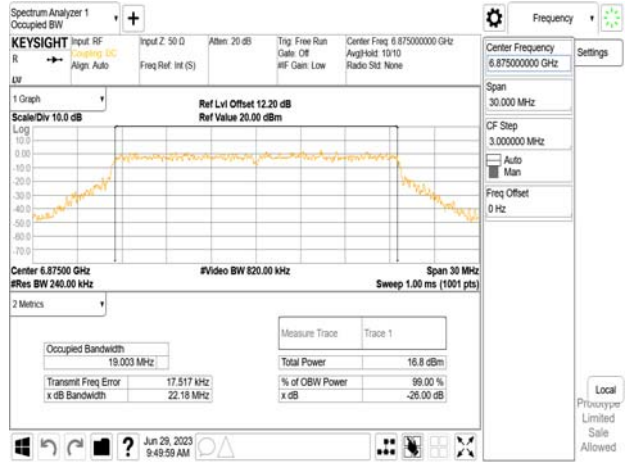
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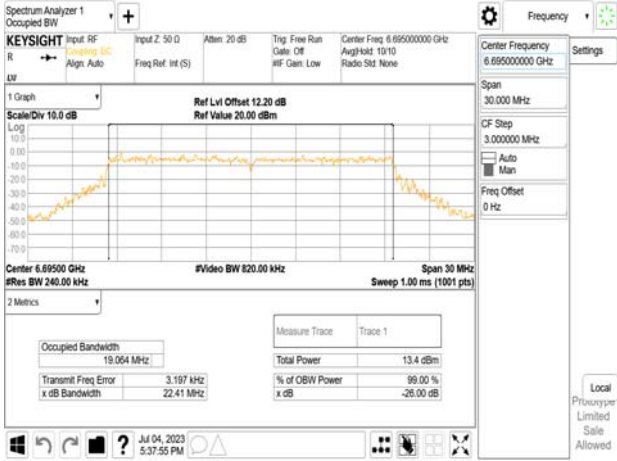
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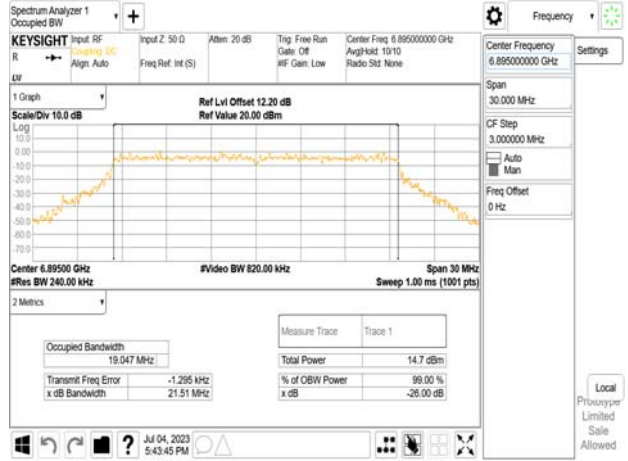
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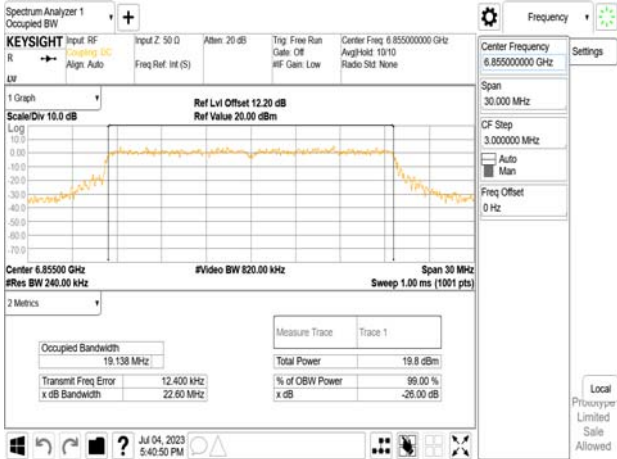
802.11be\_20MHz\_Chain0\_6695MHz



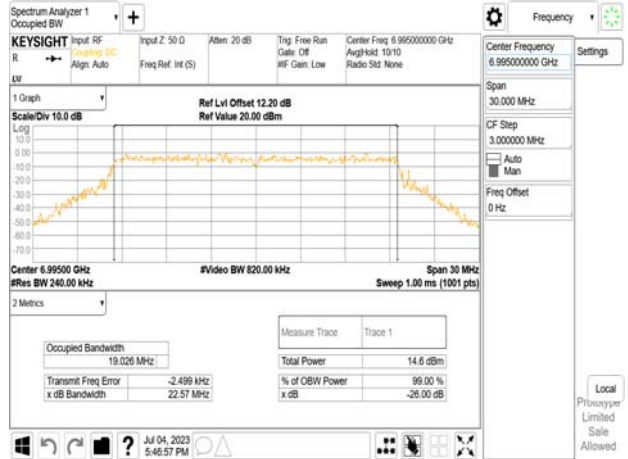
802.11be\_20MHz\_Chain0\_6895MHz



802.11be\_20MHz\_Chain0\_6855MHz



802.11be\_20MHz\_Chain0\_6995MHz

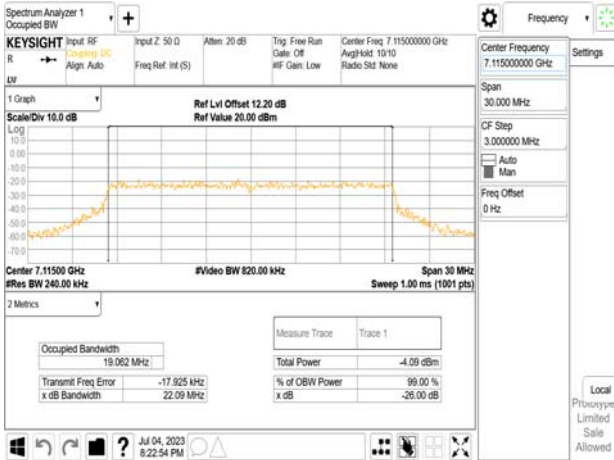


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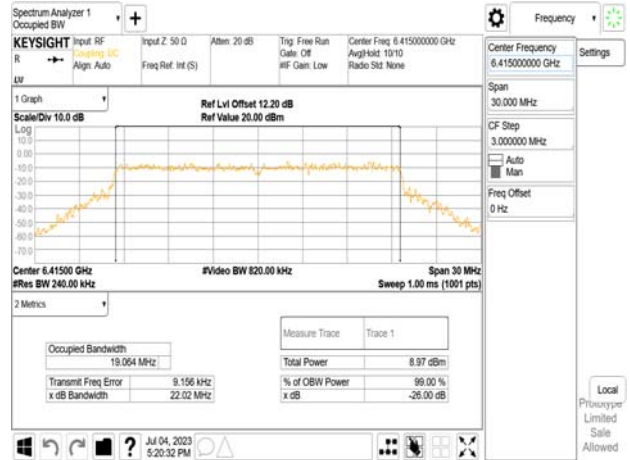
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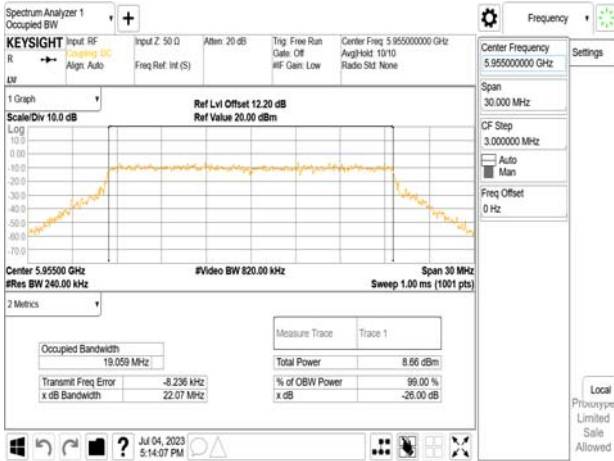
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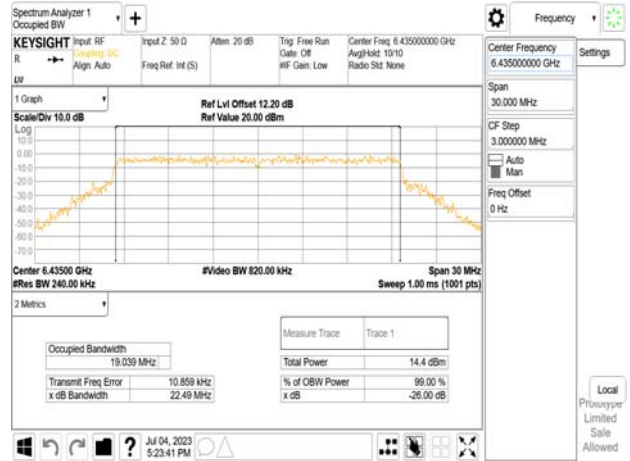
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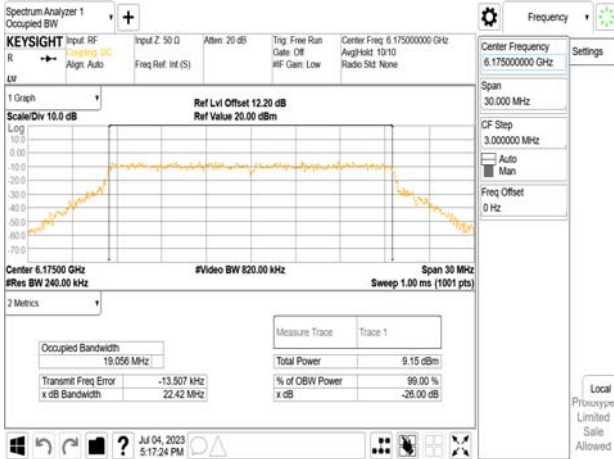
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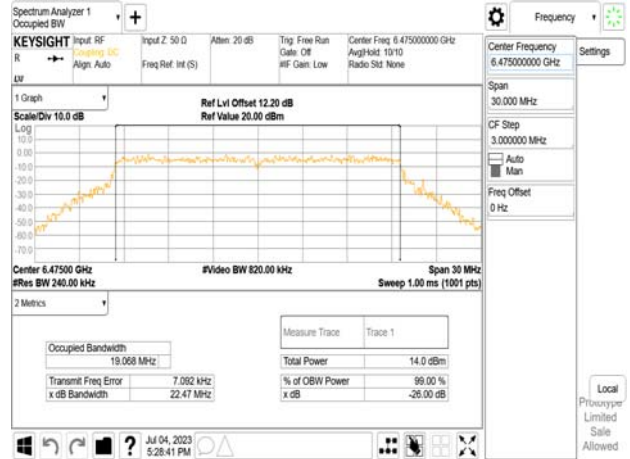
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802.11be\_20MHz\_Chain1\_6175MHz



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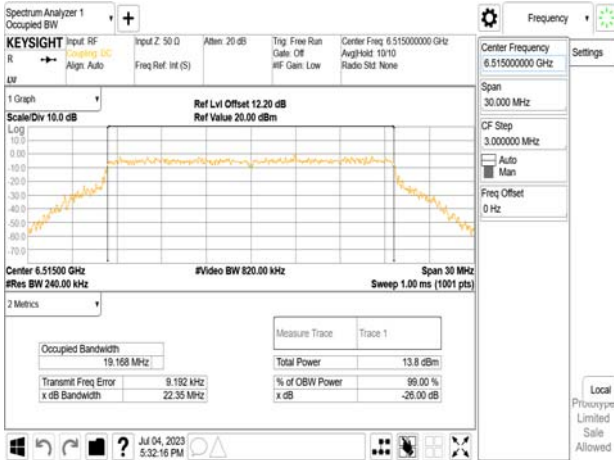


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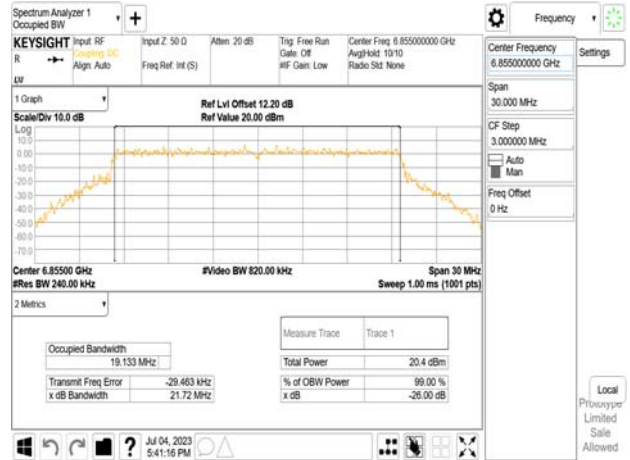
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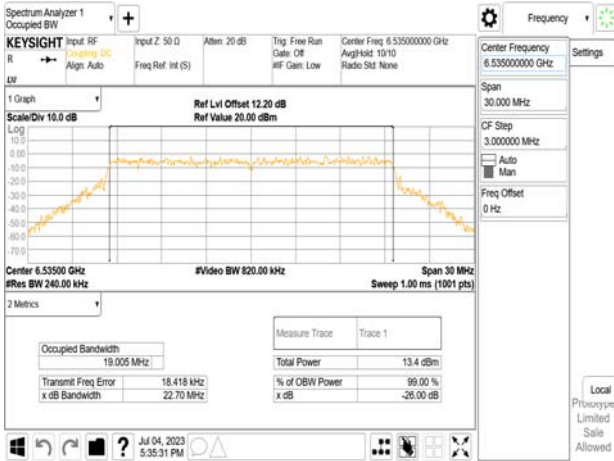
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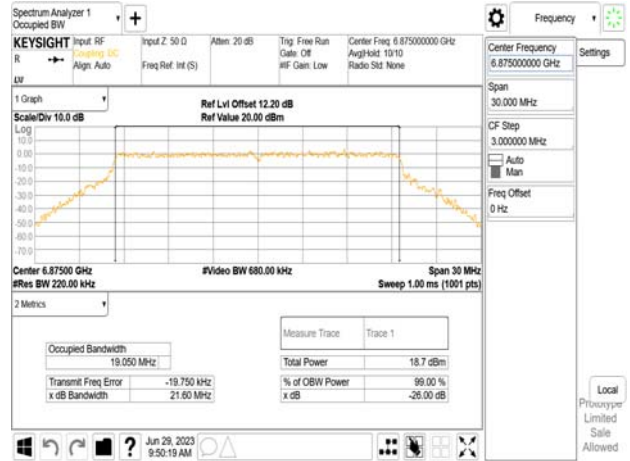
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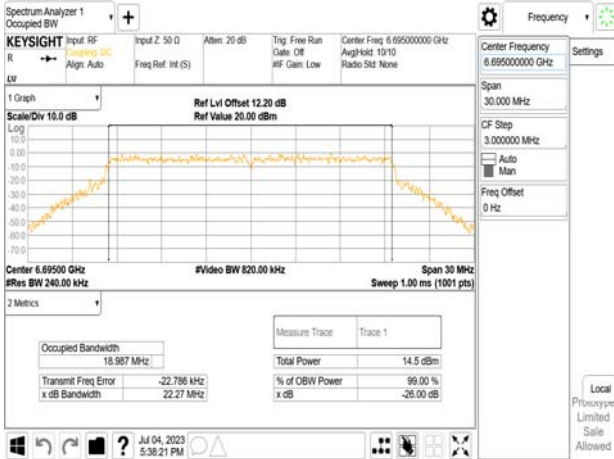
802.11be\_20MHz\_Chain1\_6535MHz



802.11be\_20MHz\_Chain1\_6875MHz



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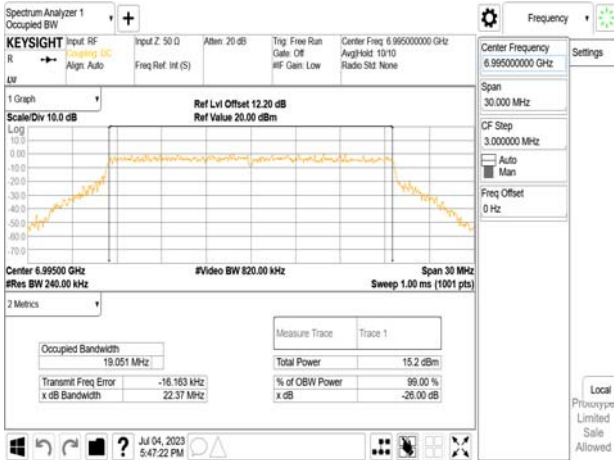


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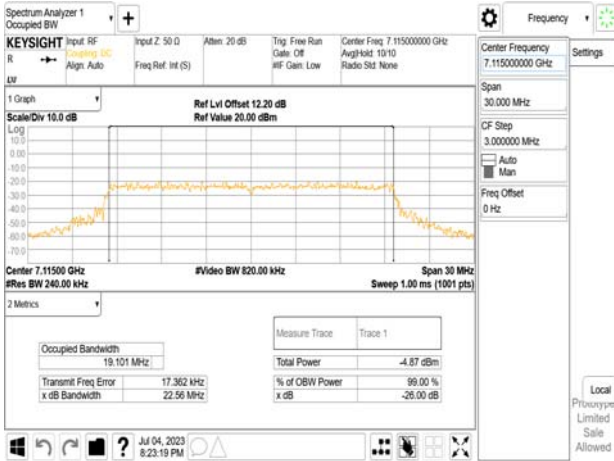
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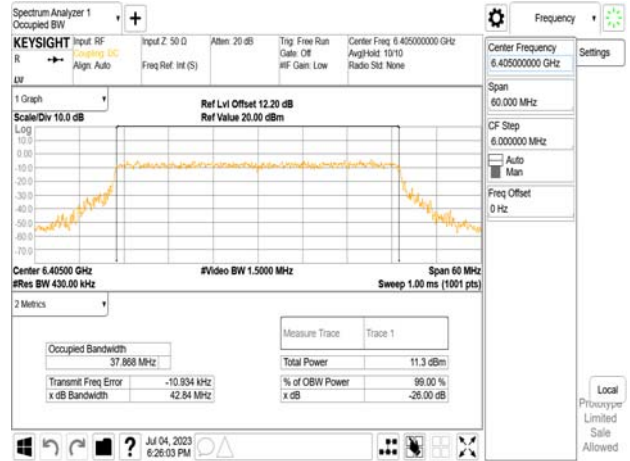
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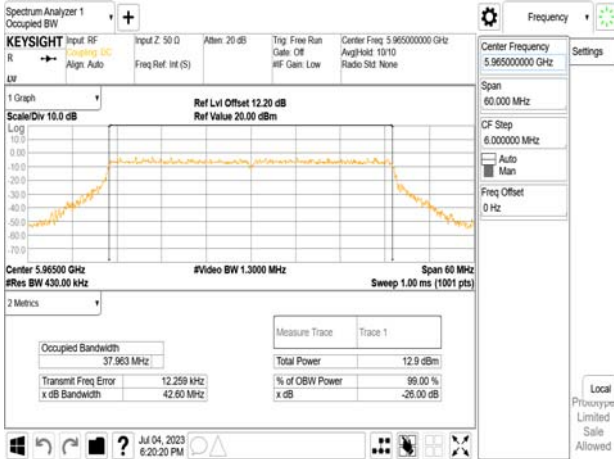
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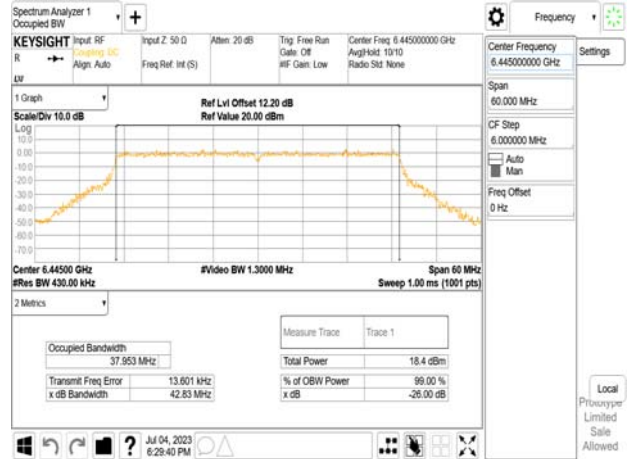
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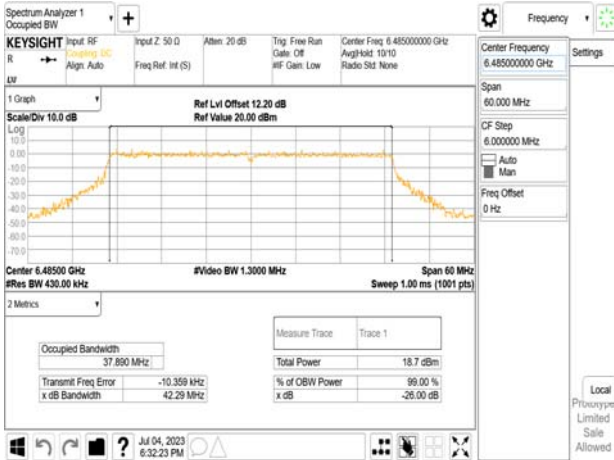


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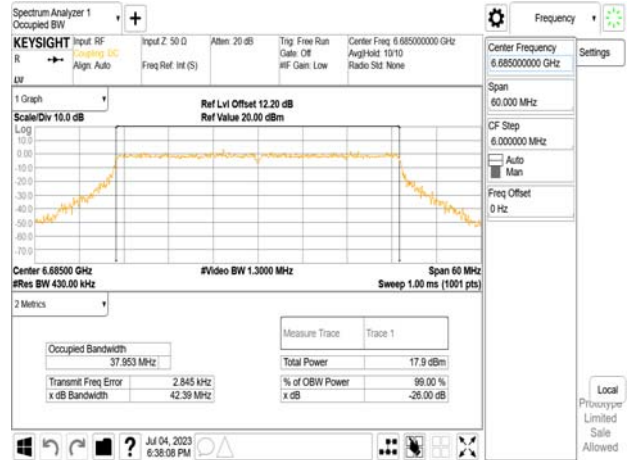
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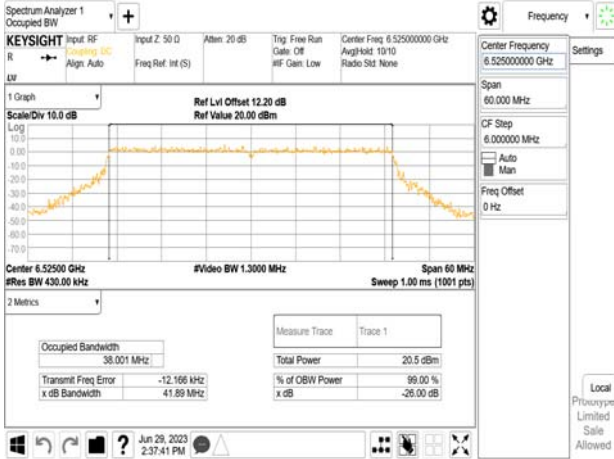
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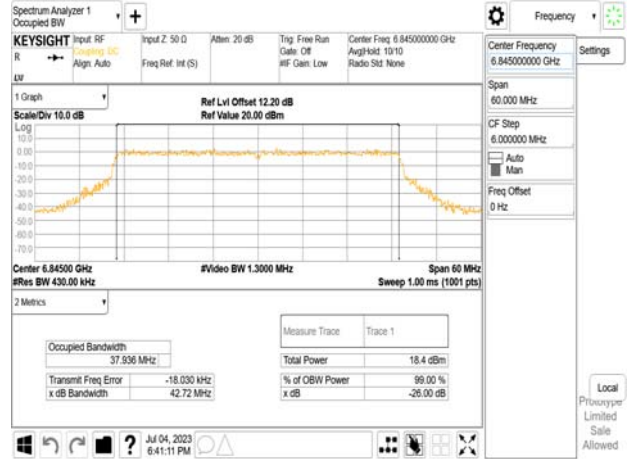
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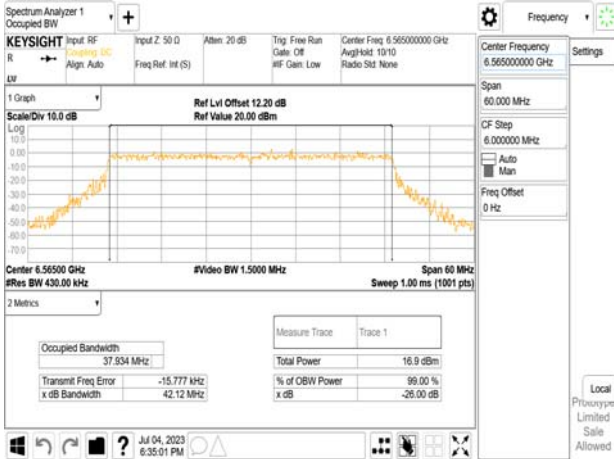
802.11be\_40MHz\_Chain0\_6525MHz



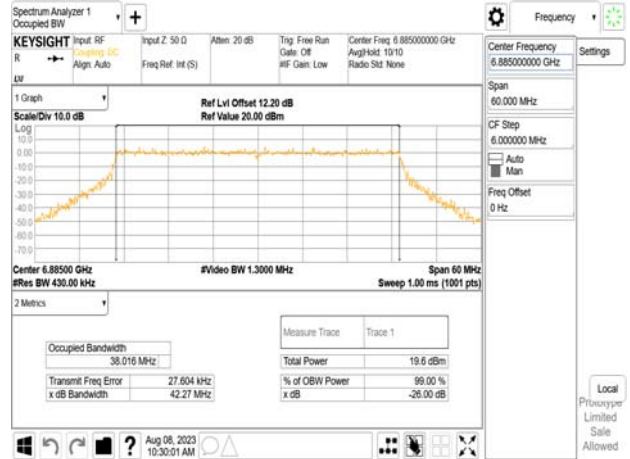
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802.11be\_40MHz\_Chain0\_6565MHz



802.11be\_40MHz\_Chain0\_6885MHz



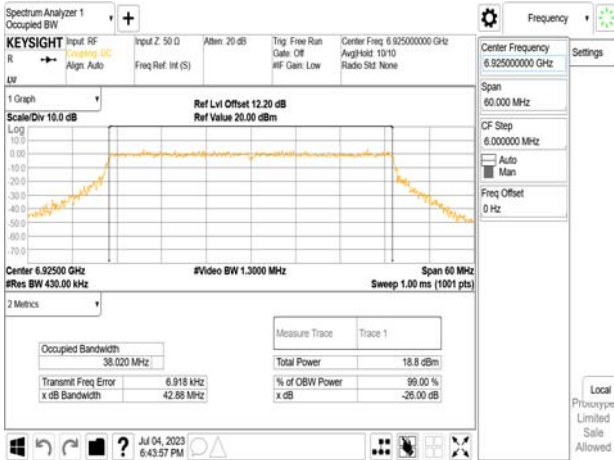
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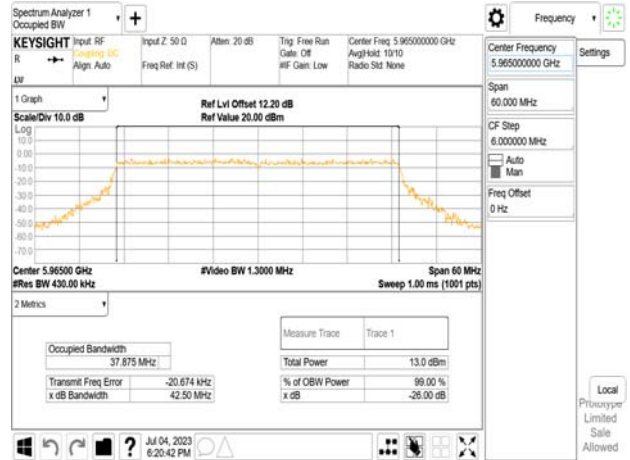
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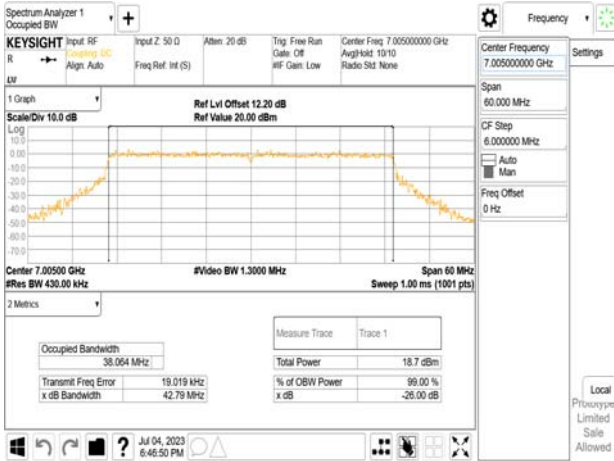
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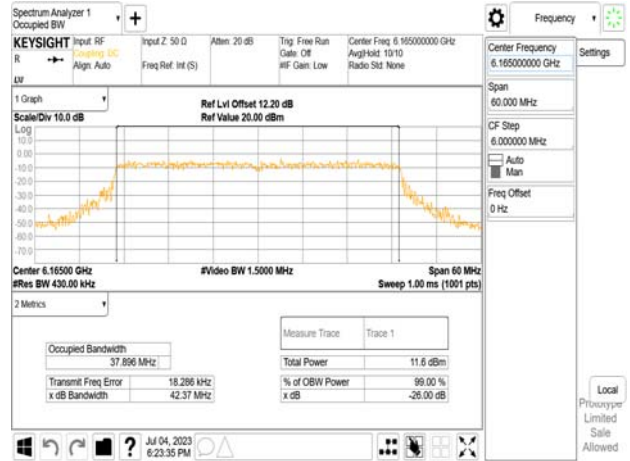
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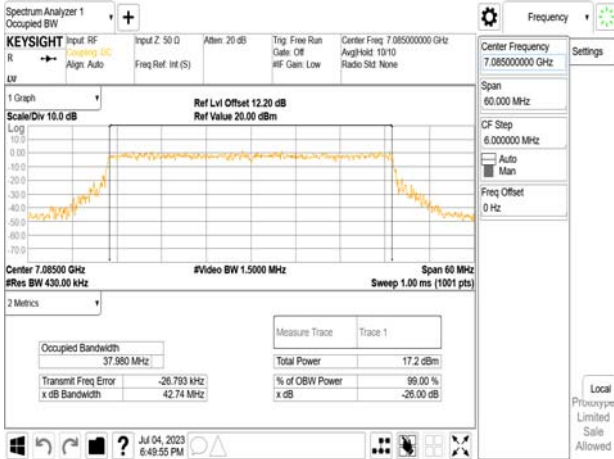
802.11be\_40MHz\_Chain0\_7005MHz



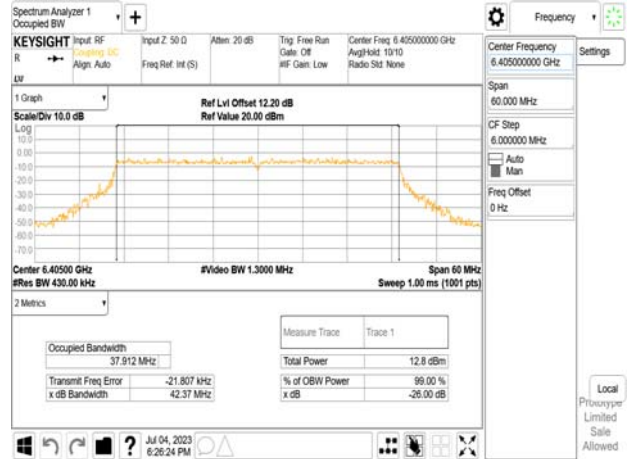
802.11be\_40MHz\_Chain1\_6165MHz



802.11be\_40MHz\_Chain0\_7085MHz



802.11be\_40MHz\_Chain1\_6405MHz



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