

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Westermo Neratec AG
Rosswiesstrasse 29, 8608 Bubikon, Switzerland
Manufacturer: Westermo Neratec AG
Rosswiesstrasse 29, 8608 Bubikon, Switzerland
Product Name: WLAN Access Point
Brand Name: WESTERMO
Model No.: Ibex-1510-T2G2.5 NA
Report Number: TERF2410003003ER
FCC ID 2AEJD-3628-15102
Date of EUT Received: Oct. 09, 2024
Date of Test: Oct. 09, 2024 ~ Nov. 21, 2024
Issue Date: Jan. 10, 2025

Approved By

Marcus Tseng

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
TERF2410003003ER	00	Original.	Dec. 20, 2024	Yami Kuo	
TERF2410003003ER	01	Revise chapter 1.1	Jan. 10, 2025	Yami Kuo	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	WLAN Access Point
Brand Name:	WESTERMO
Model No.:	Ibex-1510-T2G2.5 NA
Hardware Version:	MK1 rev.4
Firmware Version:	6.11.5
EUT Series No.:	3628-15102 00000011 2434
Power Supply:	1. From 120 VAC / 48 VDC PoE adapter. 2. From 24 to 120 VDC to optional DC input connector.
Test Software (Name/Version)	QSPR x86/6.00.00146.1

1.2 Modulation & Data Rate

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
Transition Rate:	for OFDMA in 802.11ax
	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps
	802.11 ax_HE20: up to 286.8 Mbps
	802.11 ax_HE40: up to 573.6 Mbps
	802.11 ax_HE80: up to 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
omni-directional	HUBER+SUHNER	1399.35.0008	5150~5250	6
			5250~5350	6
			5470~5725	6
			5725~5850	6
Patch antenna	Westermo	ICL-5	5150~5250	4
			5250~5350	4
			5470~5725	4
			5725~5850	4

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 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	14.99 dBm	OFDM
	5260~5320	4	20.81 dBm	OFDM
	5500~5720	12	21.75 dBm	OFDM
	5745-5825	5	24.99 dBm	OFDM
802.11n_HT40 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	14.99 dBm	OFDMA
	5270~5310	2	22.92 dBm	OFDMA
	5510~5710	6	22.90 dBm	OFDM
	5755-5795	2	24.71 dBm	OFDMA
802.11ac_VHT80/ 802.11ax_HE80	5210	1	14.98 dBm	OFDMA
	5290	1	20.99 dBm	OFDM
	5530~5690	3	22.59 dBm	OFDMA
	5775	1	23.34 dBm	OFDM

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

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.

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2.4 Measurement Results Explanation Example

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

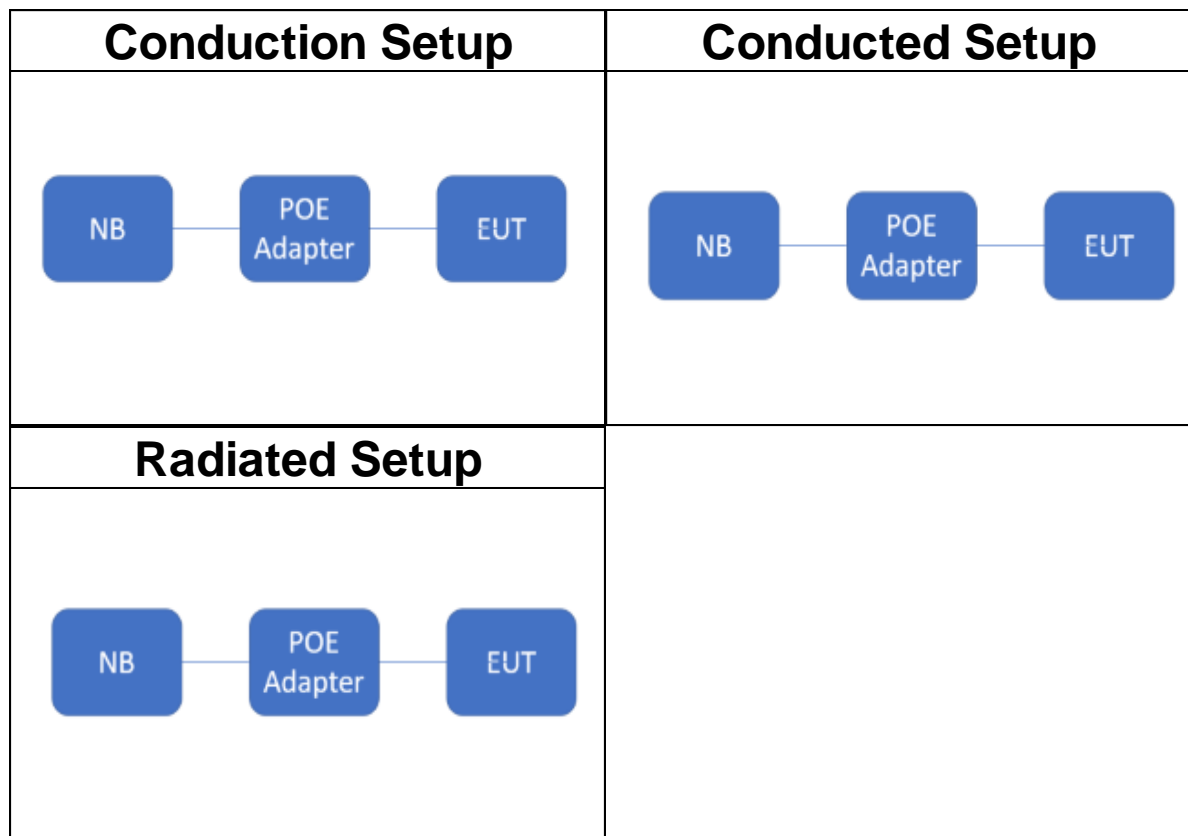
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
POE Adapter	Gigabit	PSE301G	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
PoE Adapter	FLUIDMESH	GMW241DA-480050G	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A
POE Adapter	Gigabit	PSE301G	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(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§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-1 5150 MHz ~ 5250MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A 5250 MHz ~ 5350MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C 5470 MHz ~ 5725MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-3 5725 MHz ~ 5850MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note:

1. Operating in 5600~5650MHz is prohibited in Canada for Master device.

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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
<input checked="" type="checkbox"/> 802.11 a	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ac	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 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	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6		2TX
	5260~5320	52 to 64	60				
	5500~5720	100 to 144	116				
	5745~5825	149 to 165	157				
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6		2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0		2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0		2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ac_VHT80	5210	42	42	OFDM	MCS0		2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				

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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
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 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
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. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	1	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

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
7G High Pass Filter	WI	WHKX7.0	45	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	23	12/12/2023	12/11/2024
Band Reject Filter 5150-5350	Titan	T04N5150535050S0 1	23040703-16	12/12/2023	12/11/2024
Band Reject Filter 5470-5725	Titan	T04N5470572550S0 1	23040703-18	12/12/2023	12/11/2024
Band Reject Filter 5725-5895	Titan	T04N5725589550S0 1	23040703-20	12/12/2023	12/11/2024
Coaxial Cables	EMCI	EMC104-SM-SM-600 +EMC105-SM-SM-2000 +EMC105-SM-SM-1500 +EMC105-SM-SM-10000	RX Cable 9K-18G (220237+220909+220906+240801)	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
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/22/2023	12/21/2024
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/16/2024	02/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Site Cal	SGS	SAC 2	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

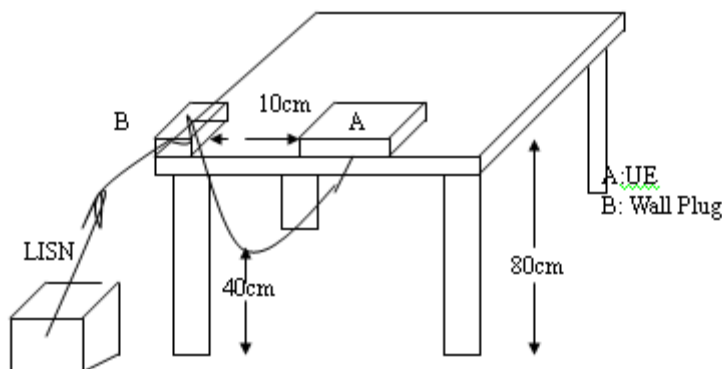
Note

- 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 SET-UP



7.4 Measurement Procedure

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

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7.5 Measurement Result

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

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

This device supports Dual power inputs from PoE and DC input connector, evaluation has been done on both inputs to determine the worst case scenario is from PoE input, thus the test result of PoE input is demonstrated in the report.

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Member of SGS Group

AC POWER LINE CONDUCTED EMISSION TEST DATA

HUBER+SUHNER

Report Number :TERF2410003003ER

Operation Mode :WLAN_5G

Power :120V/60Hz

Probe :L

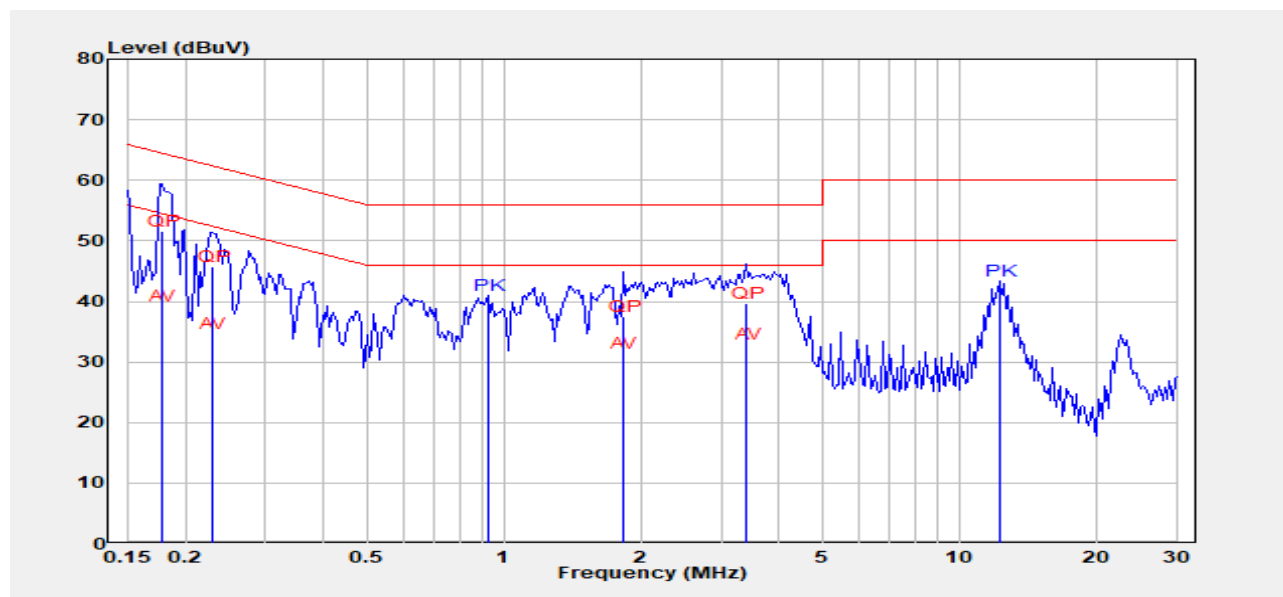
Note: :

Test Site :Conduction 1

Test Date :2024-11-19

Temp./Humi. :20.0°C/78%

Engineer :Bob Chao



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.178	Average	29.12	10.13	39.25	54.59	-15.34
0.178	QP	41.45	10.13	51.58	64.59	-13.01
0.229	Average	24.52	10.13	34.65	52.48	-17.83
0.229	QP	35.66	10.13	45.79	62.48	-16.69
0.928	Peak	30.84	10.20	41.04	56.00	-14.96
1.829	Average	21.28	10.19	31.47	46.00	-14.53
1.829	QP	27.32	10.19	37.51	56.00	-18.49
3.417	Average	22.71	10.27	32.98	46.00	-13.02
3.417	QP	29.43	10.27	39.70	56.00	-16.30
12.318	Peak	33.02	10.43	43.45	60.00	-16.55

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Report Number :TERF2410003003ER

Test Site :Conduction 1

Operation Mode :WLAN_5G

Test Date :2024-11-19

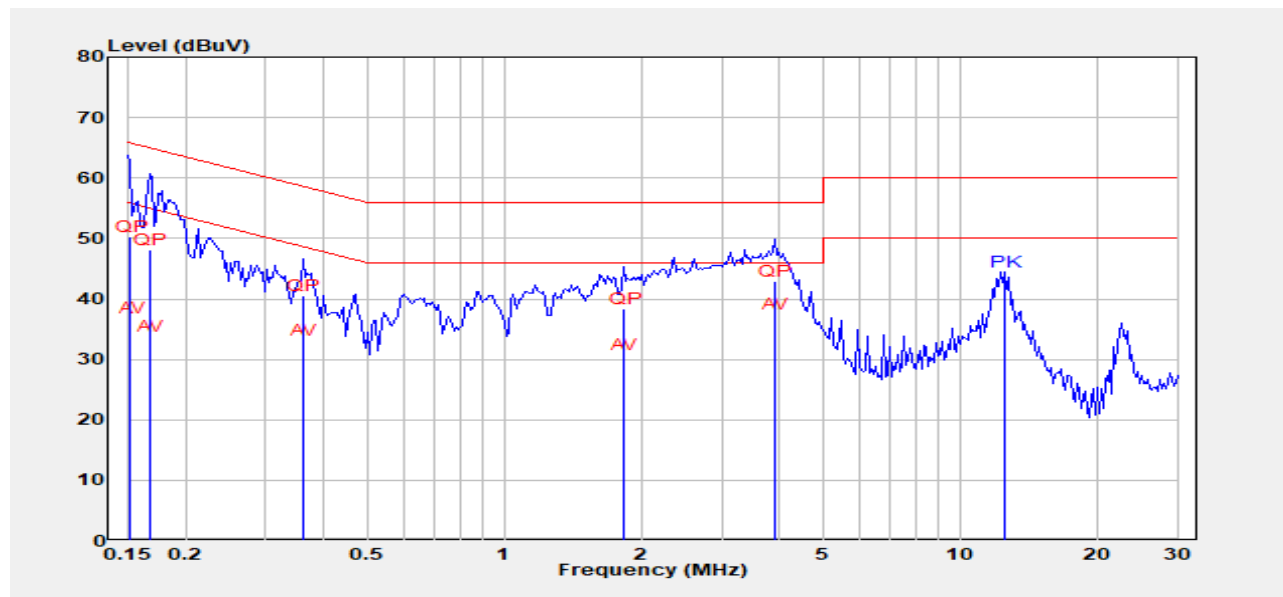
Power :120V/60Hz

Temp./Humi. :20.0°C/78%

Probe :N

Engineer :Bob Chao

Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Average	26.84	10.12	36.96	55.91	-18.95
0.152	QP	40.13	10.12	50.25	65.91	-15.66
0.167	Average	23.72	10.12	33.84	55.12	-21.28
0.167	QP	38.08	10.12	48.20	65.12	-16.92
0.361	Average	23.06	10.15	33.21	48.69	-15.49
0.361	QP	30.42	10.15	40.57	58.69	-18.13
1.829	Average	20.53	10.19	30.72	46.00	-15.28
1.829	QP	28.22	10.19	38.41	56.00	-17.59
3.922	Average	27.13	10.30	37.43	46.00	-8.57
3.922	QP	32.67	10.30	42.97	56.00	-13.03
12.582	Peak	34.09	10.46	44.55	60.00	-15.45

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Report Number :TERF2410003003ER

Operation Mode :WLAN_5G

Power :120V/60Hz

Probe :L

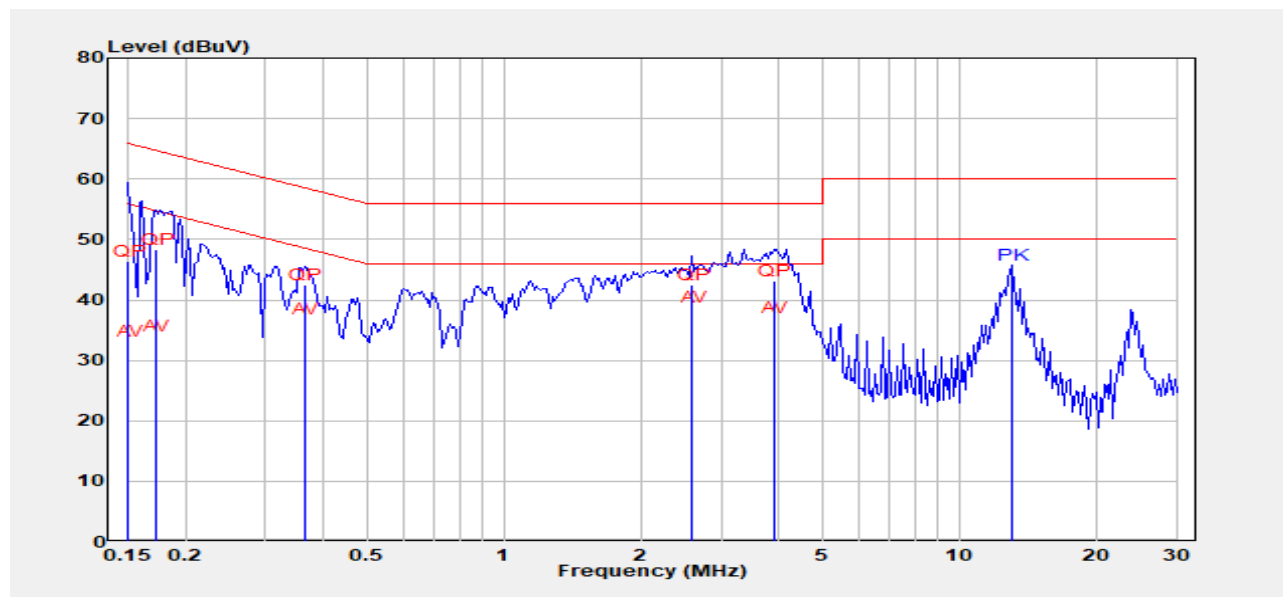
Note: :

Test Site :Conduction 1

Test Date :2024-11-19

Temp./Humi. :20.0°C/78%

Engineer :Bob Chao



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.150	Average	23.12	10.13	33.25	56.00	-22.75
0.150	QP	36.32	10.13	46.45	66.00	-19.55
0.172	Average	23.97	10.13	34.10	54.86	-20.76
0.172	QP	38.15	10.13	48.28	64.86	-16.58
0.365	Average	26.68	10.15	36.83	48.61	-11.78
0.365	QP	32.36	10.15	42.51	58.61	-16.10
2.594	Average	28.57	10.23	38.80	46.00	-7.20
2.594	QP	32.26	10.23	42.49	56.00	-13.51
3.922	Average	26.82	10.29	37.11	46.00	-8.89
3.922	QP	32.86	10.29	43.15	56.00	-12.85
13.127	Peak	35.21	10.44	45.65	60.00	-14.35

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Report Number :TERF2410003003ER

Operation Mode :WLAN_5G

Power :120V/60Hz

Probe :N

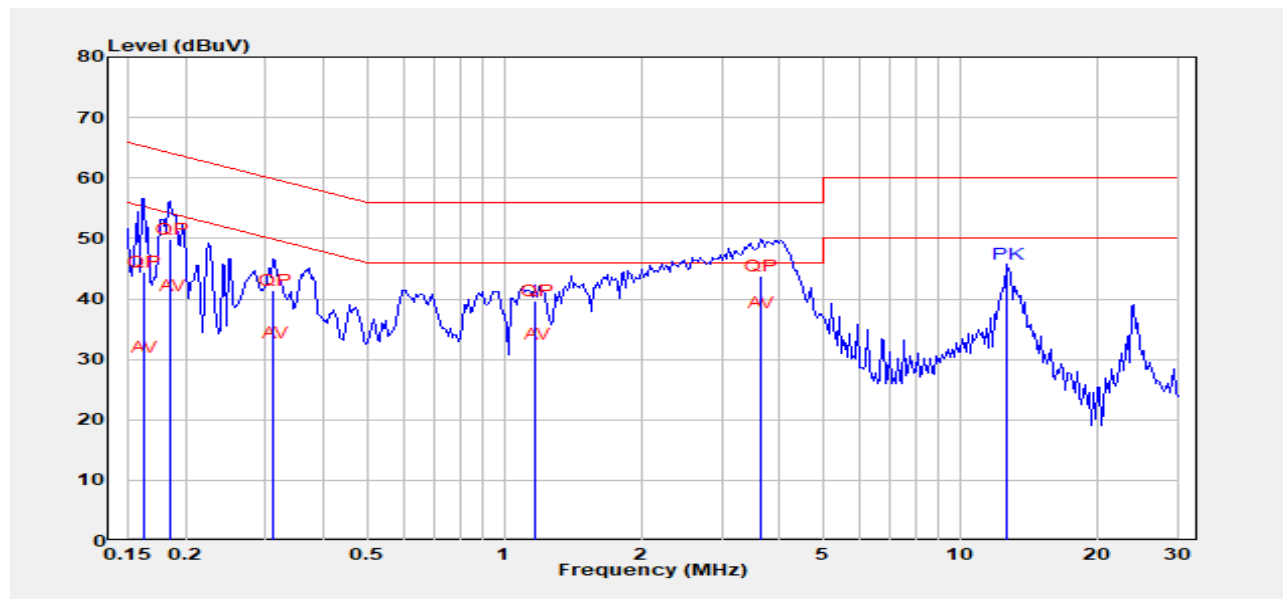
Note: :

Test Site :Conduction 1

Test Date :2024-11-19

Temp./Humi. :20.0°C/78%

Engineer :Bob Chao



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.162	Average	20.17	10.12	30.29	55.38	-25.09
0.162	QP	34.42	10.12	44.54	65.38	-20.84
0.185	Average	30.42	10.12	40.54	54.24	-13.70
0.185	QP	39.69	10.12	49.81	64.24	-14.43
0.312	Average	22.64	10.14	32.78	49.93	-17.15
0.312	QP	31.36	10.14	41.50	59.93	-18.43
1.172	Average	22.43	10.19	32.62	46.00	-13.38
1.172	QP	29.38	10.19	39.57	56.00	-16.43
3.642	Average	27.36	10.29	37.65	46.00	-8.35
3.642	QP	33.54	10.29	43.83	56.00	-12.17
12.716	Peak	35.34	10.47	45.81	60.00	-14.19

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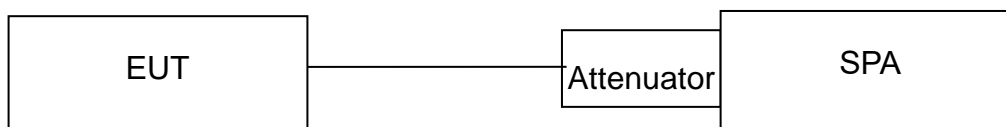
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 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. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = large enough to capture all products of the modulation process, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as RBW = 1%, VBW = 3*RBW, Span = large enough to capture all products of the modulation process, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.65	12.930
5220	19.87	12.980
5240	20.47	13.110
5260	19.81	12.970
5300	20.70	13.160
5320	19.53	12.910
5500	20.07	13.030
5580	19.51	12.900
5700	19.58	12.920
5720(U-NII 2C)	14.81	11.710
5720(U-NII 3)	4.81	6.820

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.04	11.770
5785	16.33	12.130
5825	16.37	12.140

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.23	< 5250
5745	5736.78	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.53	13.120
5220	20.31	13.080
5240	20.01	13.010
5260	19.47	12.890
5300	19.34	12.860
5320	19.24	12.840
5500	19.97	13.000
5580	19.60	12.920
5700	19.13	12.820
5720(U-NII 2C)	14.89	11.730
5720(U-NII 3)	4.89	6.890

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.44	12.160
5785	14.67	11.660
5825	16.38	12.140

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.22	< 5250
5745	5736.78	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.10	13.240
5220	21.26	13.280
5240	20.75	13.170
5260	20.26	13.070
5300	20.00	13.010
5320	19.88	12.980
5500	20.86	13.190
5580	20.26	13.070
5700	20.76	13.170
5720(U-NII 2C)	15.34	11.860
5720(U-NII 3)	5.34	7.280

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.58	12.450
5785	17.67	12.470
5825	17.61	12.460

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.81	< 5250
5745	5736.12	> 5725

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802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.03	13.230
5220	20.92	13.210
5240	21.58	13.340
5260	20.44	13.100
5300	20.47	13.110
5320	20.10	13.030
5500	20.78	13.180
5580	20.74	13.170
5700	20.93	13.210
5720(U-NII 2C)	15.31	11.850
5720(U-NII 3)	5.31	7.250

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.63	12.460
5785	17.27	12.370
5825	16.55	12.190

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.82	< 5250
5745	5736.15	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.74	15.990
5230	40.48	16.070
5270	40.21	16.040
5310	39.74	15.990
5510	40.70	16.100
5550	40.53	16.080
5670	40.25	16.050
5710(U-NII 2C)	35.03	15.440
5710(U-NII 3)	5.03	7.020

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.40	15.610
5795	35.92	15.550

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.09	< 5250
5755	5736.89	> 5725

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802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.01	16.020
5230	39.89	16.010
5270	40.17	16.040
5310	39.47	15.960
5510	39.77	16.000
5550	40.26	16.050
5670	40.10	16.030
5710(U-NII 2C)	35.30	15.480
5710(U-NII 3)	5.30	7.240

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.50	15.500
5795	36.43	15.610

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.07	< 5250
5755	5736.90	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.10	19.090
5290	81.08	19.090
5530	81.18	19.090
5610	80.66	19.070
5690(U-NII 2C)	75.89	18.800
5690(U-NII 3)	5.89	7.700

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	69.13	18.400

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.77	< 5250
5775	5737.16	> 5725

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802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.59	19.120
5290	81.24	19.100
5530	80.47	19.060
5610	81.61	19.120
5690(U-NII 2C)	75.53	18.780
5690(U-NII 3)	5.53	7.430

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.17	18.640

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.64	< 5250
5775	5737.13	> 5725

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802.11ax_HE20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	21.01	13.220
5220	full	21.36	13.300
5240	full	20.62	13.140
5260	full	20.93	13.210
5300	full	21.00	13.220
5320	full	20.54	13.130
5500	full	21.14	13.250
5580	full	21.06	13.230
5700	full	21.28	13.280
5720 (U-NII 2C)	full	15.45	11.890
5720 (U-NII 3)	full	5.45	7.370

802.11ax_HE20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	17.49	12.430
5785	full	16.09	12.070
5825	full	19.13	12.820

802.11ax_HE20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.46	< 5250
5745	5735.47	> 5725

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802.11ax_HE20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	21.13	13.250
5220	full	21.90	13.400
5240	full	21.42	13.310
5260	full	20.47	13.110
5300	full	20.71	13.160
5320	full	20.54	13.130
5500	full	21.31	13.290
5580	full	21.35	13.290
5700	full	21.33	13.290
5720 (U-NII 2C)	full	15.57	11.920
5720 (U-NII 3)	full	5.57	7.460

802.11ax_HE20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	19.00	12.790
5785	full	18.87	12.760
5825	full	19.10	12.810

802.11ax_HE20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.48	< 5250
5745	5735.51	> 5725

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802.11ax_HE40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	40.62	16.090
5230	full	40.54	16.080
5270	full	40.77	16.100
5310	full	39.83	16.000
5510	full	40.60	16.090
5550	full	40.85	16.110
5670	full	40.39	16.060
5710 (U-NII 2C)	full	35.51	15.500
5710 (U-NII 3)	full	5.51	7.410

802.11ax_HE40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.68	15.760
5795	full	37.97	15.790

802.11ax_HE40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.88	< 5250
5755	5736.12	> 5725

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802.11ax_HE40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.81	16.000
5230	full	40.25	16.050
5270	full	40.04	16.020
5310	full	40.60	16.090
5510	full	40.55	16.080
5550	full	41.04	16.130
5670	full	40.25	16.050
5710 (U-NII 2C)	full	35.27	15.470
5710 (U-NII 3)	full	5.27	7.220

802.11ax_HE40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	38.11	15.810
5795	full	38.13	15.810

802.11ax_HE40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.88	< 5250
5755	5736.10	> 5725

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802.11ax_HE80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.88	19.080
5290	full	82.10	19.140
5530	full	81.81	19.130
5610	full	81.43	19.110
5690 (U-NII 2C)	full	75.70	18.790
5690 (U-NII 3)	full	5.70	7.560

802.11ax_HE80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	75.06	18.750

802.11ax_HE80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.65	< 5250
5775	5736.28	> 5725

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802.11ax_HE80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	81.08	19.090
5290	full	82.03	19.140
5530	full	80.63	19.060
5610	full	81.16	19.090
5690 (U-NII 2C)	full	75.57	18.780
5690 (U-NII 3)	full	5.57	7.460

802.11ax_HE80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	74.79	18.740

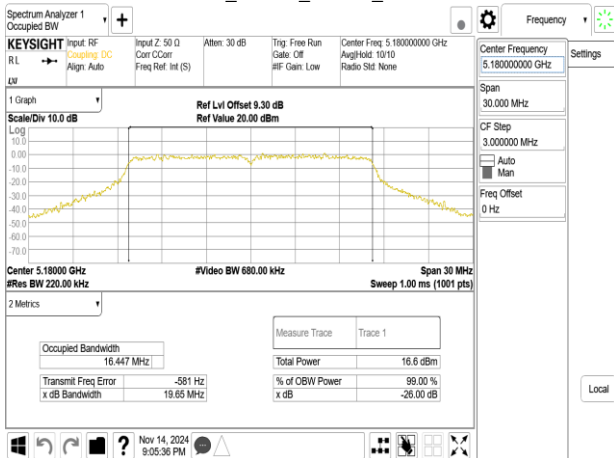
802.11ax_HE80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.41	< 5250
5775	5736.28	> 5725

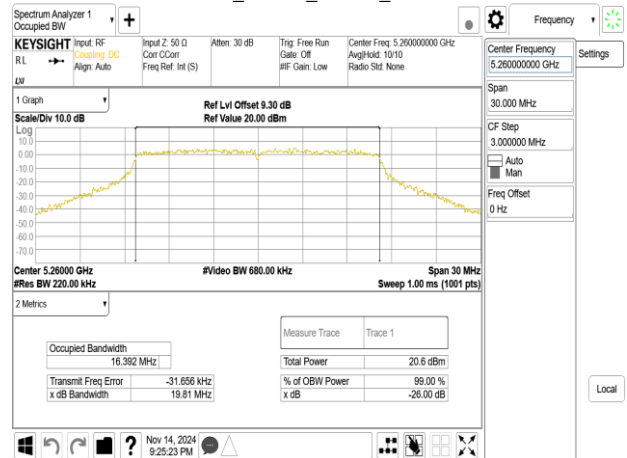
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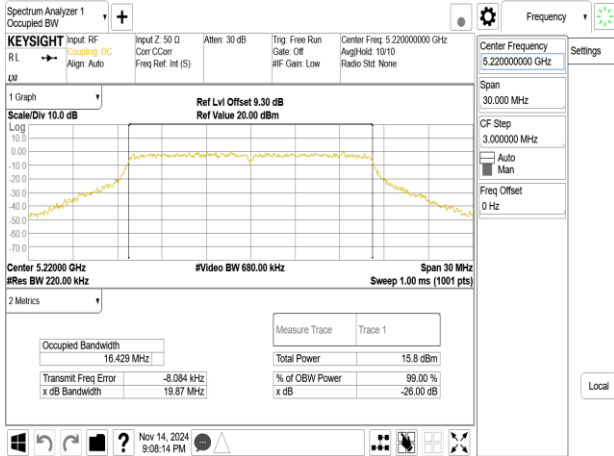
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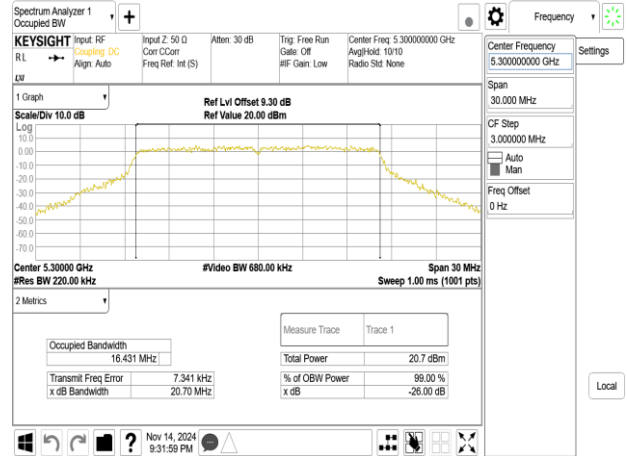
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



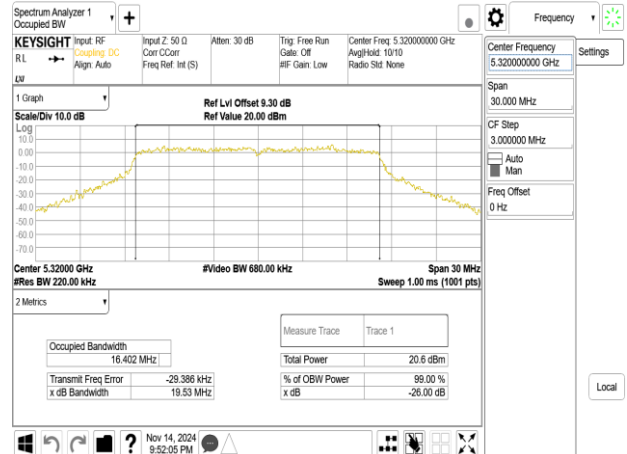
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

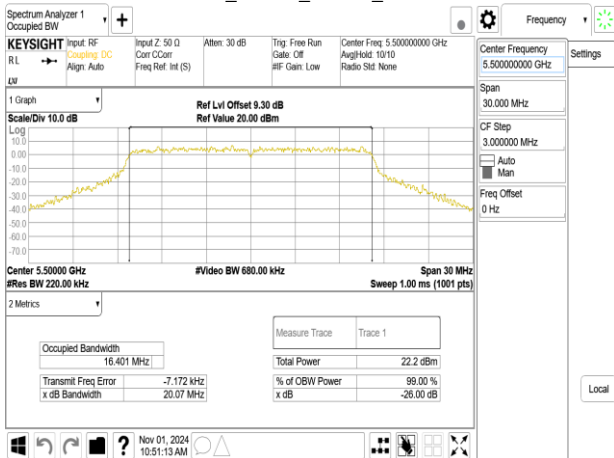


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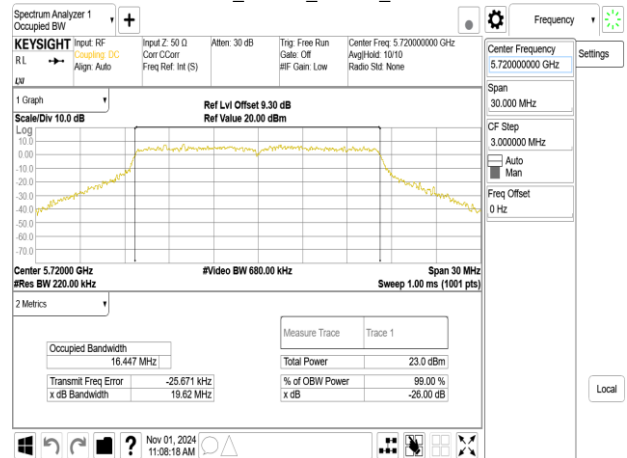
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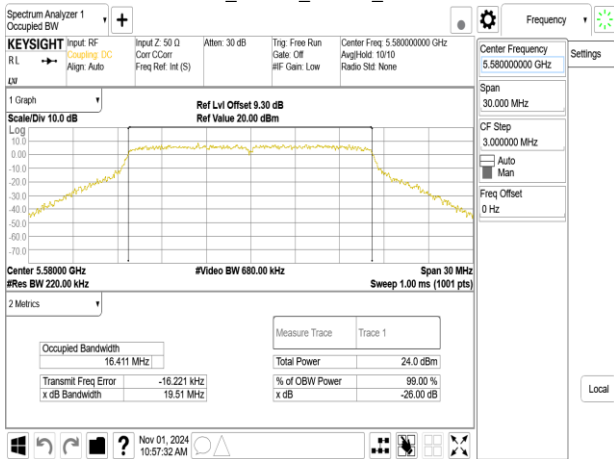
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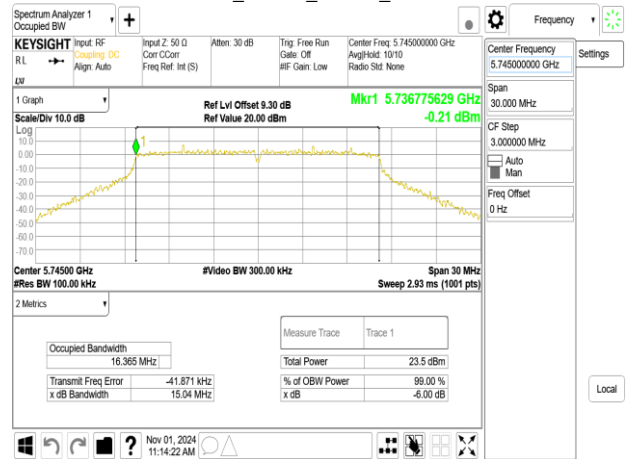
802.11a_20MHz_Chain0_5720MHz



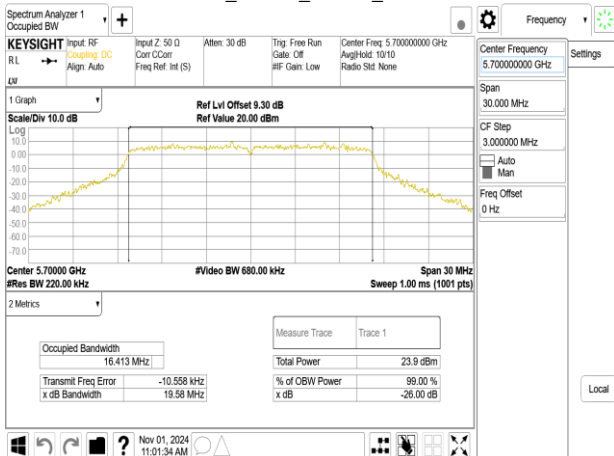
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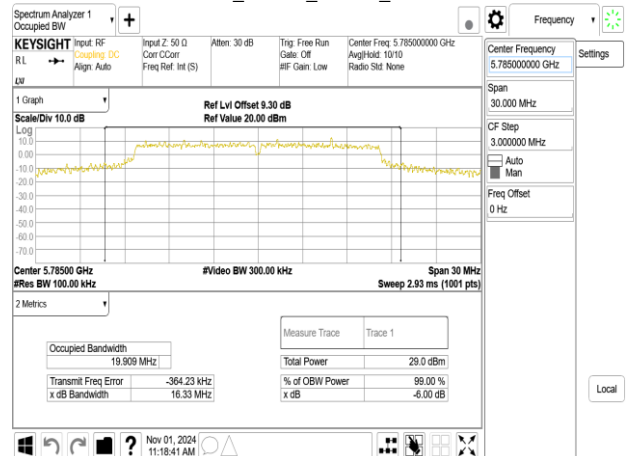
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

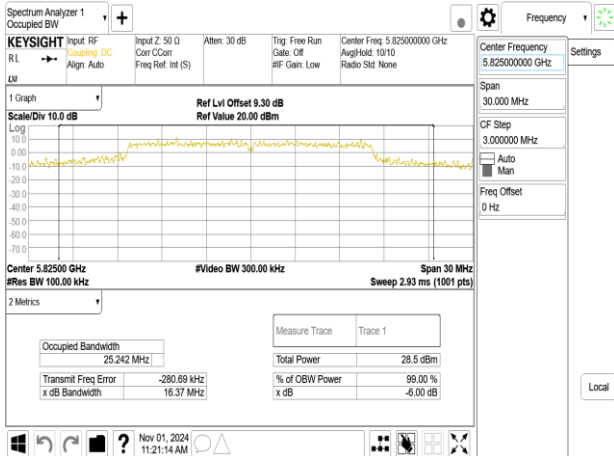


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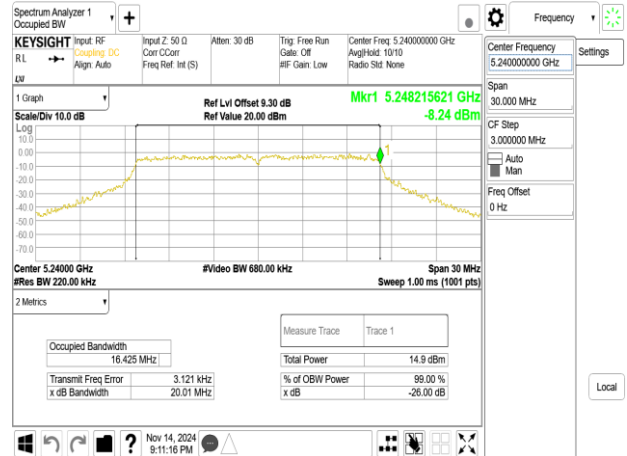
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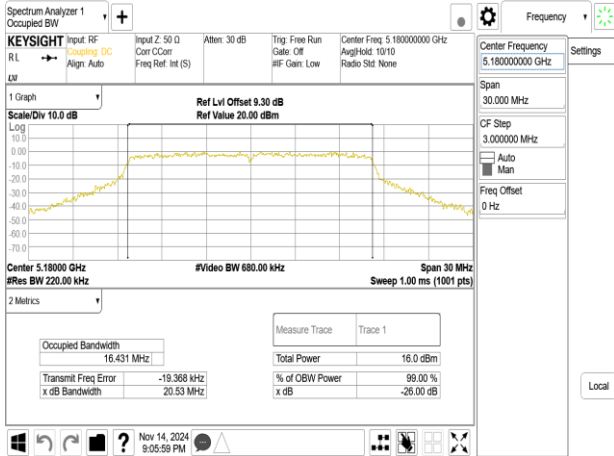
802.11a_20MHz_Chain0_5825MHz



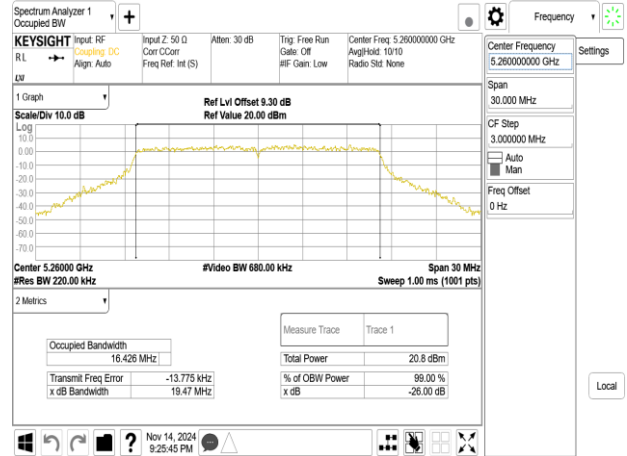
802.11a_20MHz_Chain1_5240MHz



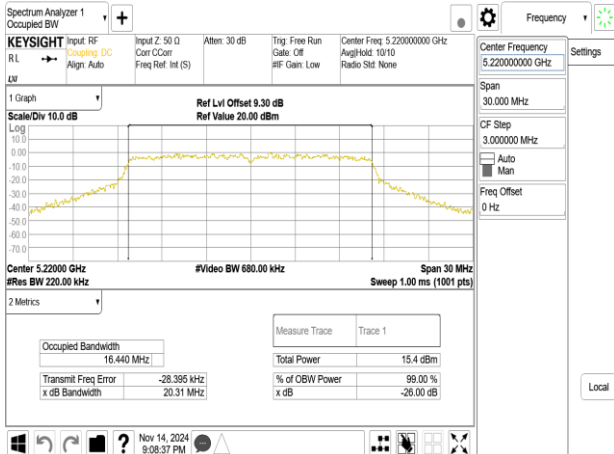
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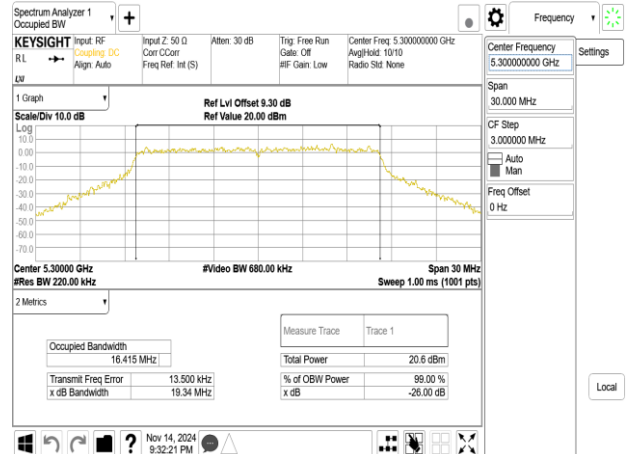
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz

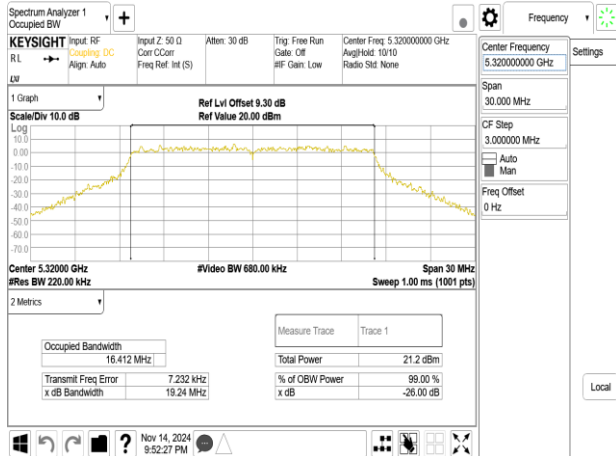


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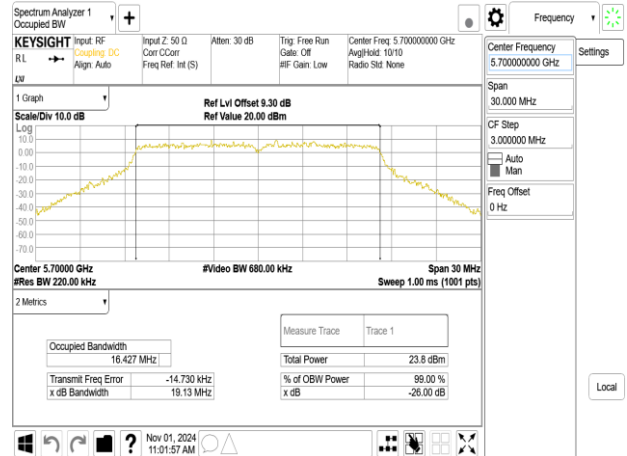
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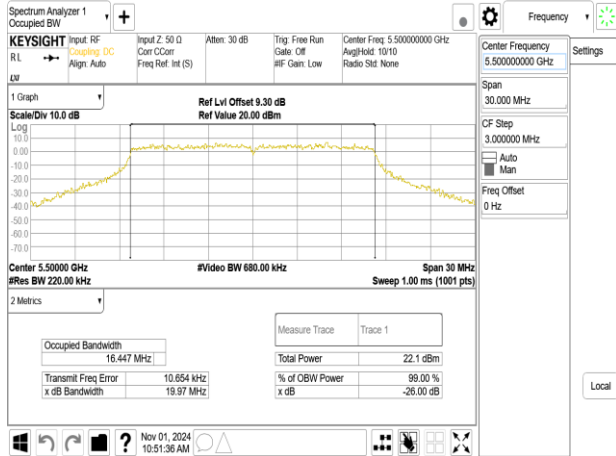
802.11a_20MHz_Chain1_5320MHz



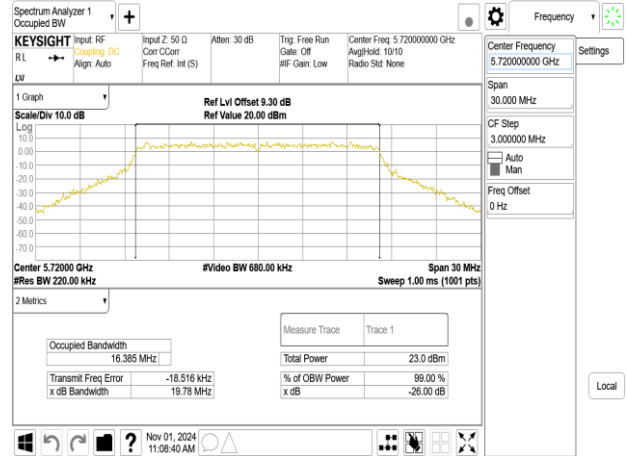
802.11a_20MHz_Chain1_5700MHz



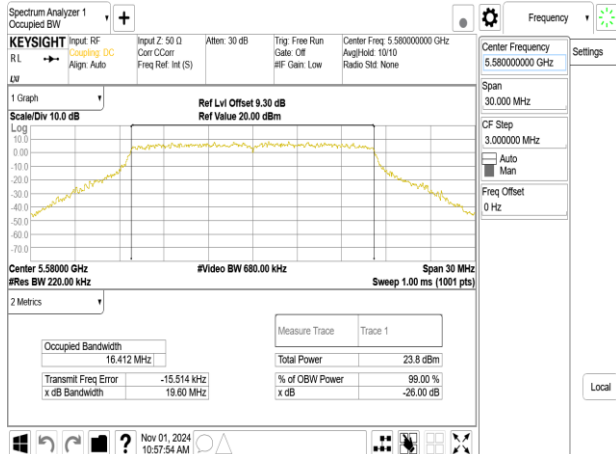
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

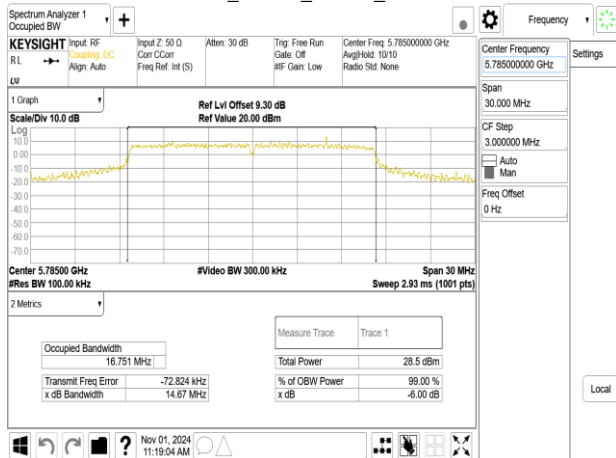


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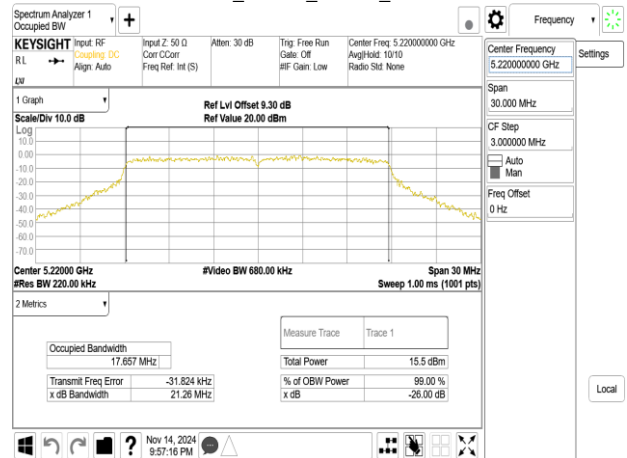
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802.11a_20MHz_Chain1_5785MHz



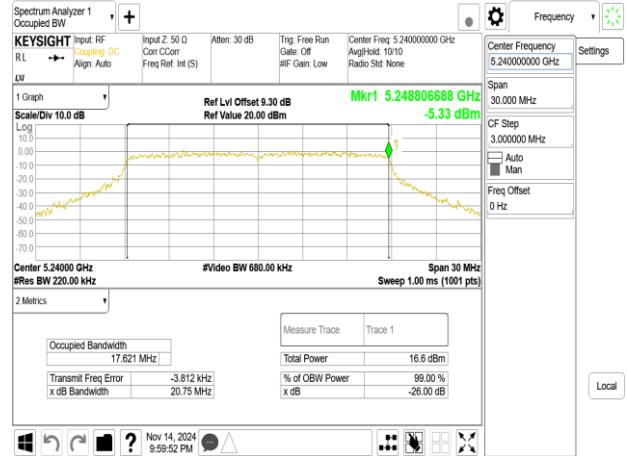
802.11n_20MHz_Chain0_5220MHz



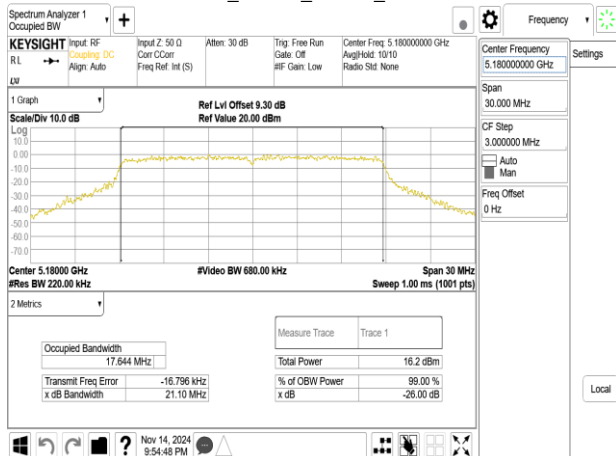
802.11a_20MHz_Chain1_5825MHz



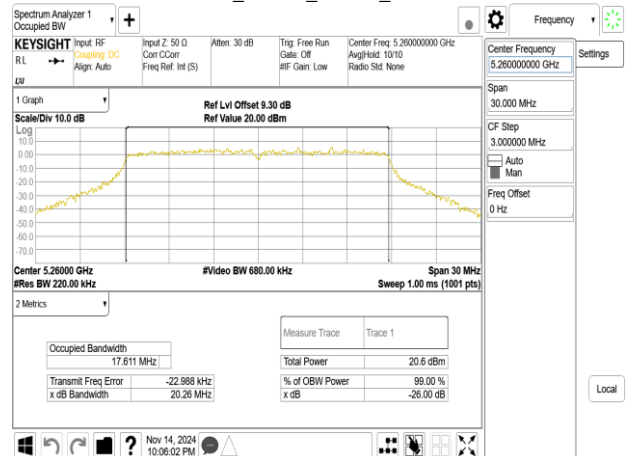
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz

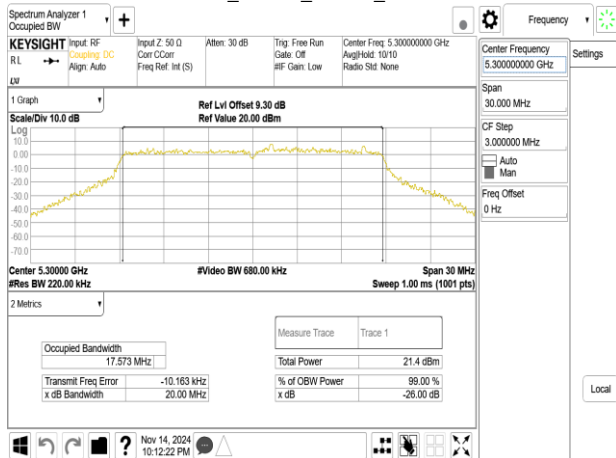


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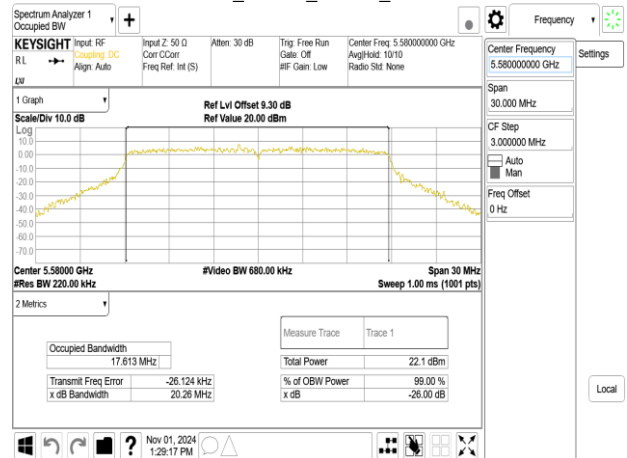
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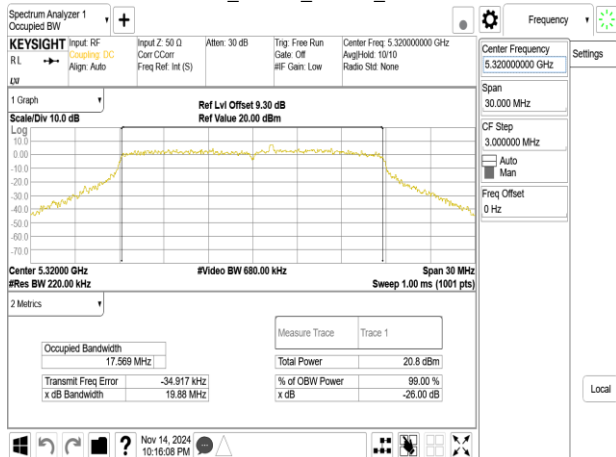
802.11n_20MHz_Chain0_5300MHz



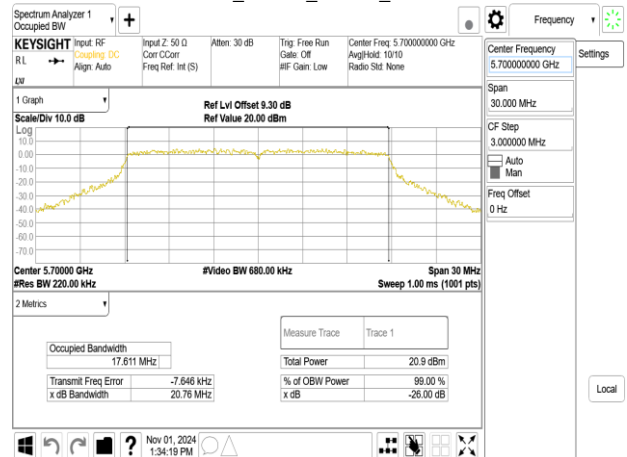
802.11n_20MHz_Chain0_5580MHz



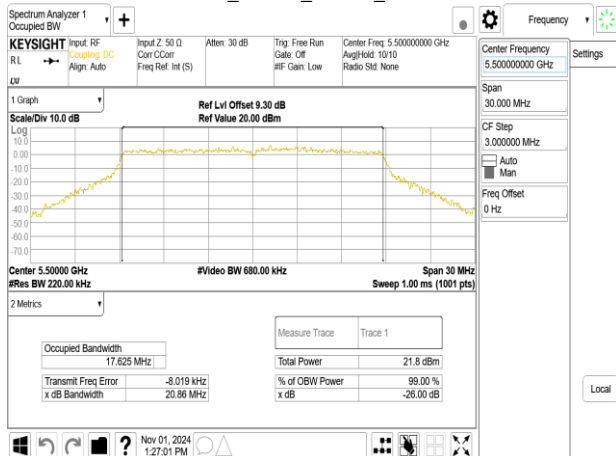
802.11n_20MHz_Chain0_5320MHz



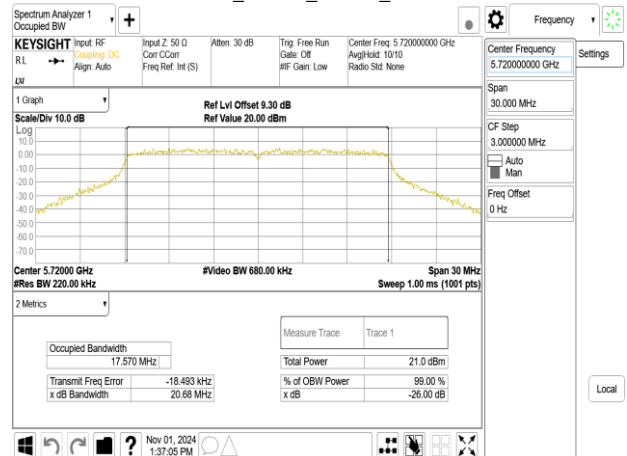
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz

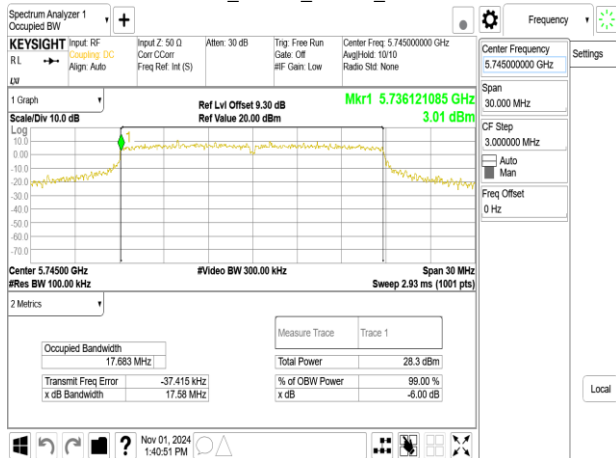


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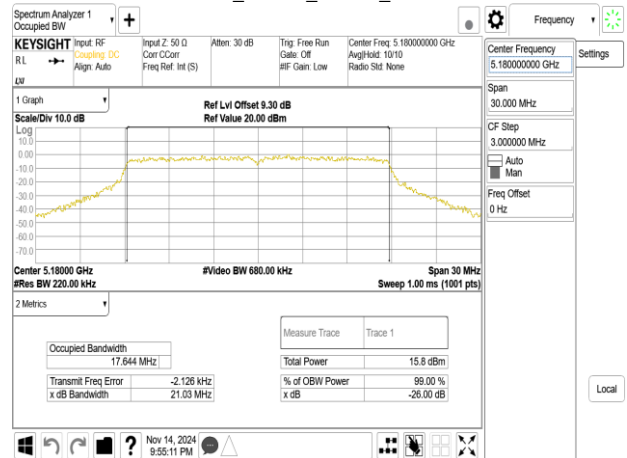
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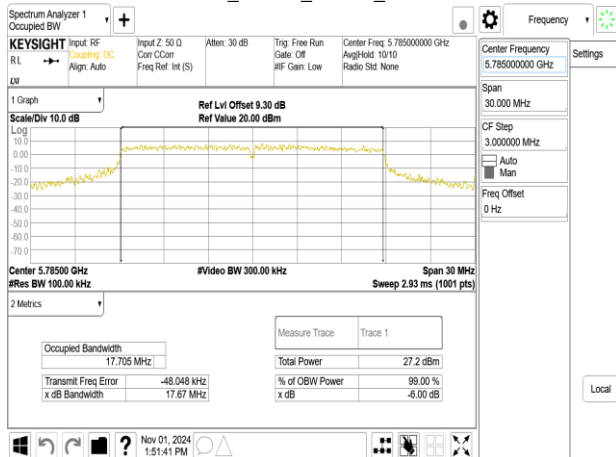
802.11n_20MHz_Chain0_5745MHz



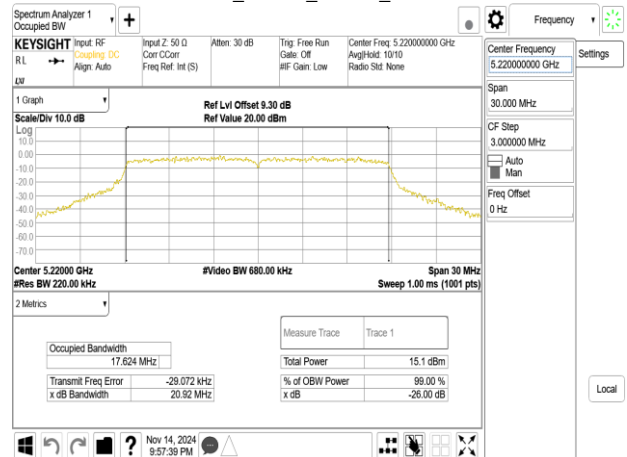
802.11n_20MHz_Chain1_5180MHz



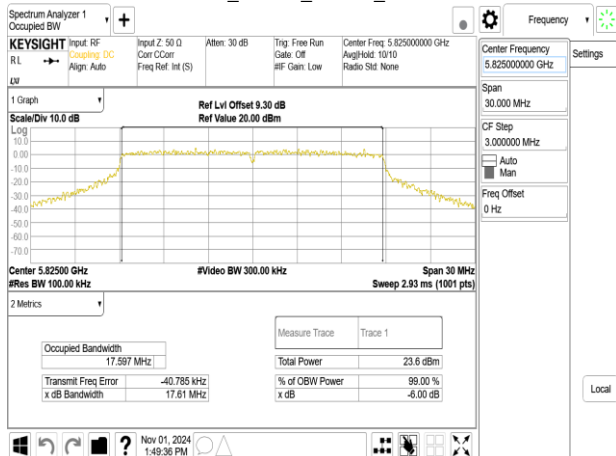
802.11n_20MHz_Chain0_5785MHz



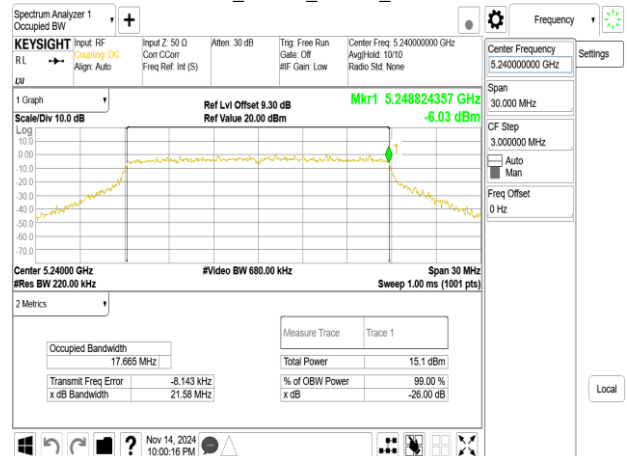
802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

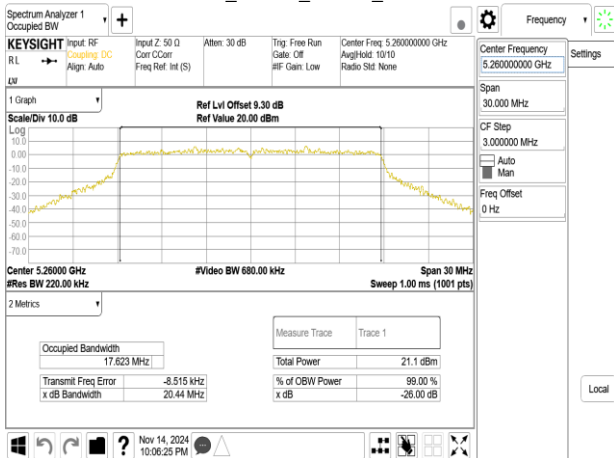


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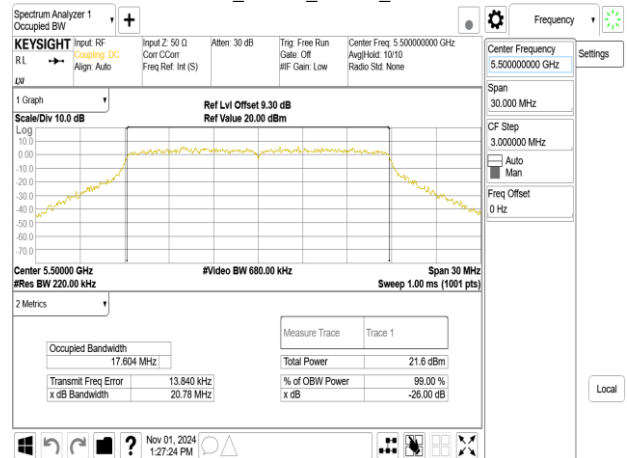
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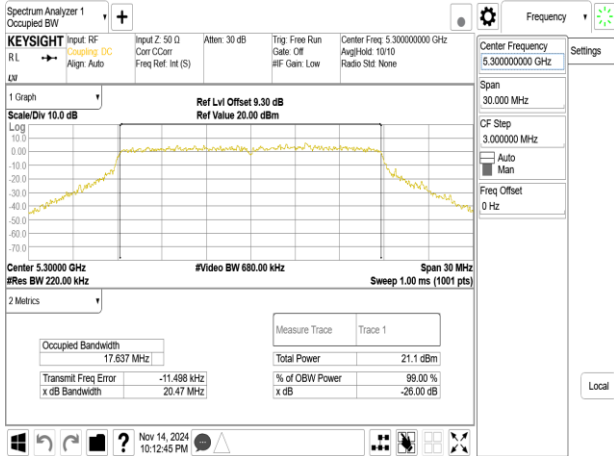
802.11n_20MHz_Chain1_5260MHz



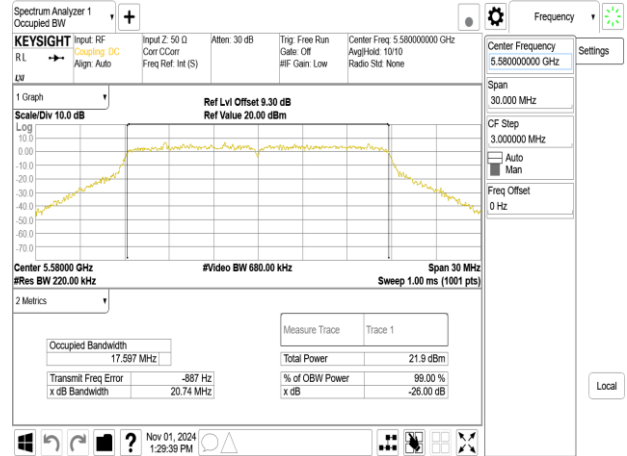
802.11n_20MHz_Chain1_5500MHz



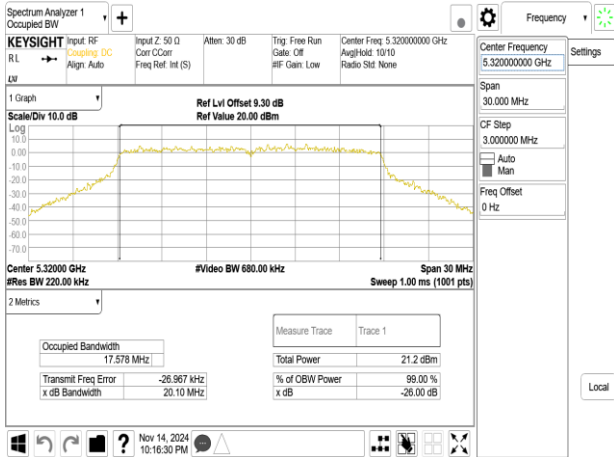
802.11n_20MHz_Chain1_5300MHz



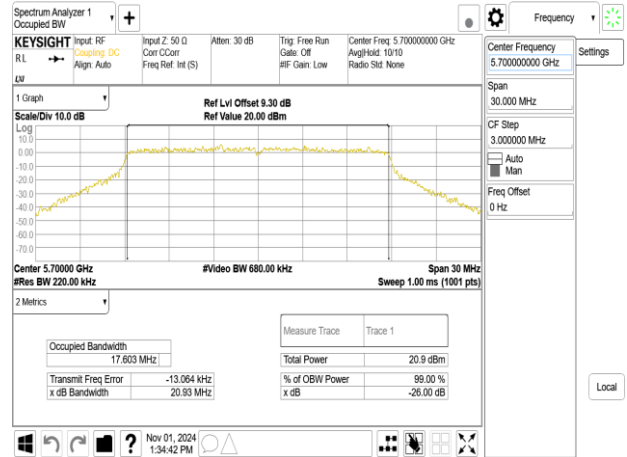
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz

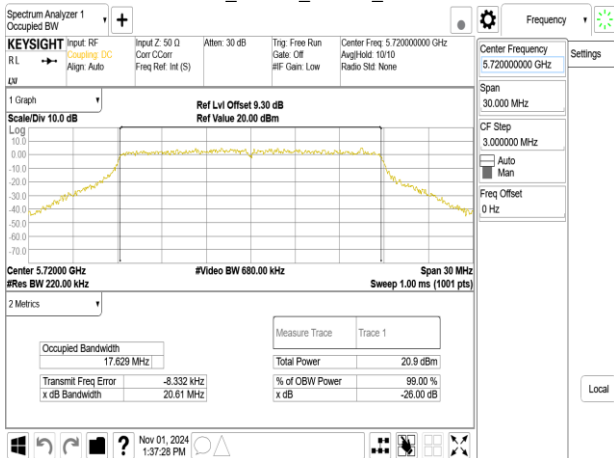


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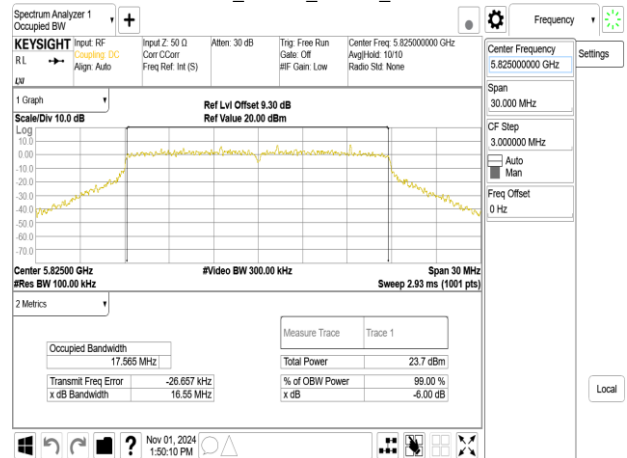
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802.11n_20MHz_Chain1_5720MHz



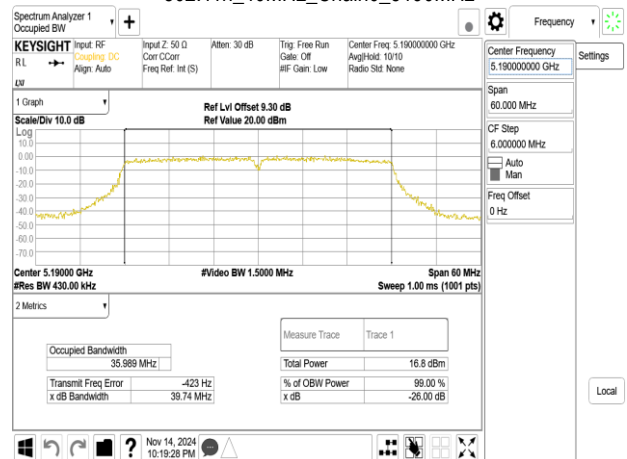
802.11n_20MHz_Chain1_5825MHz



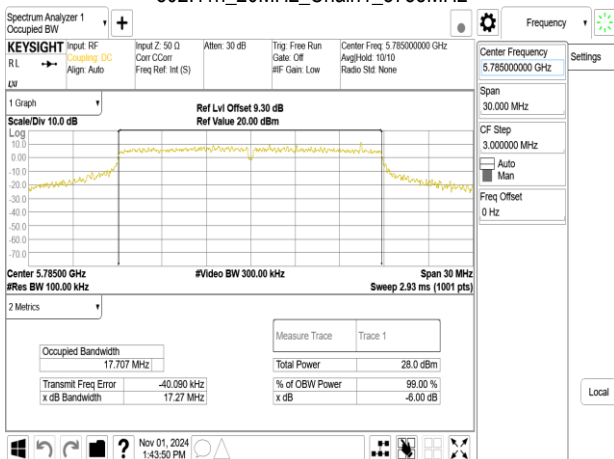
802.11n_20MHz_Chain1_5745MHz



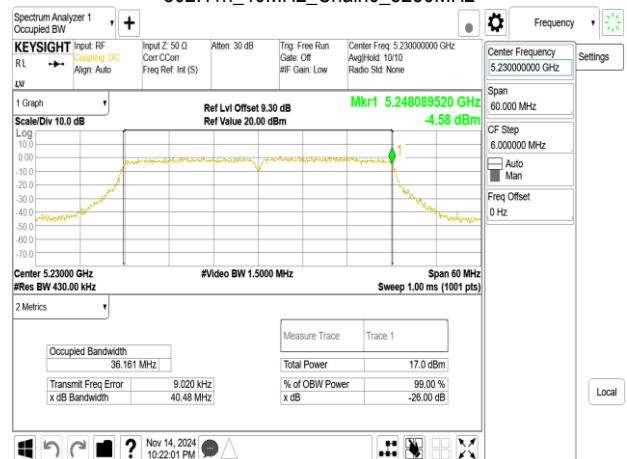
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz

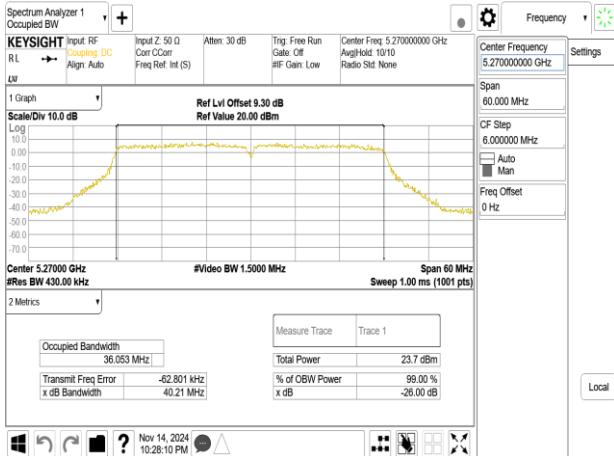


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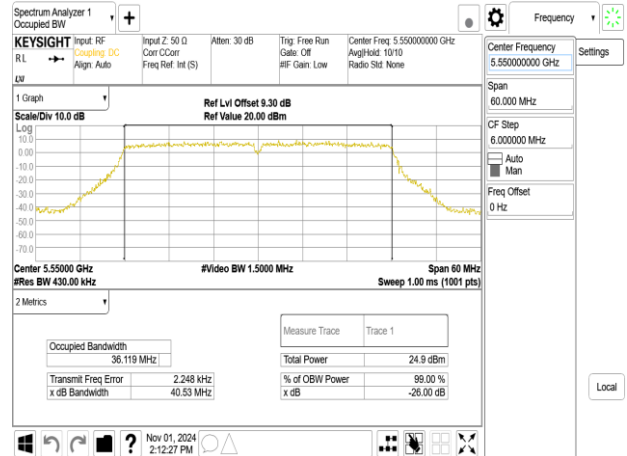
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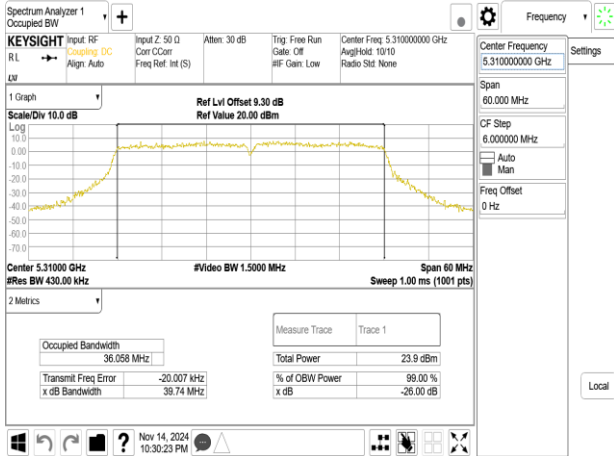
802.11n_40MHz_Chain0_5270MHz



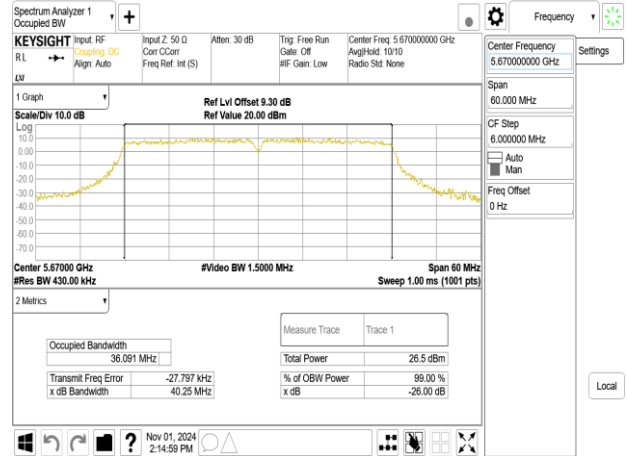
802.11n_40MHz_Chain0_5550MHz



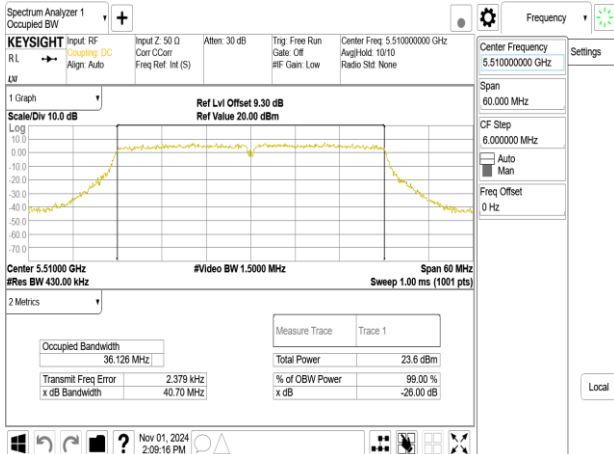
802.11n_40MHz_Chain0_5310MHz



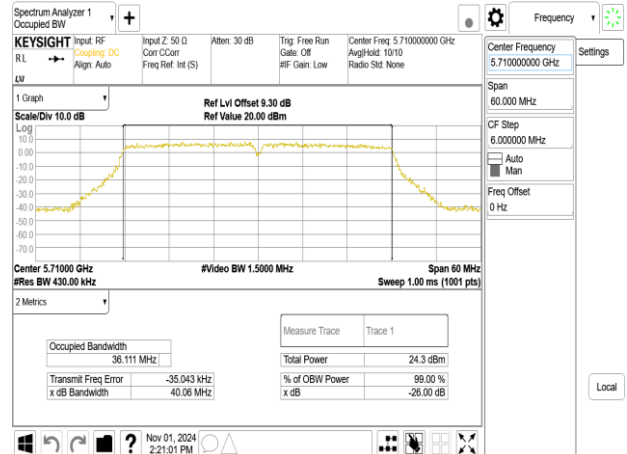
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz

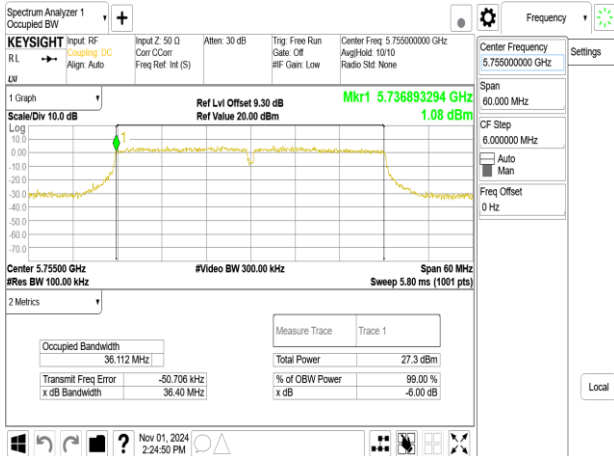


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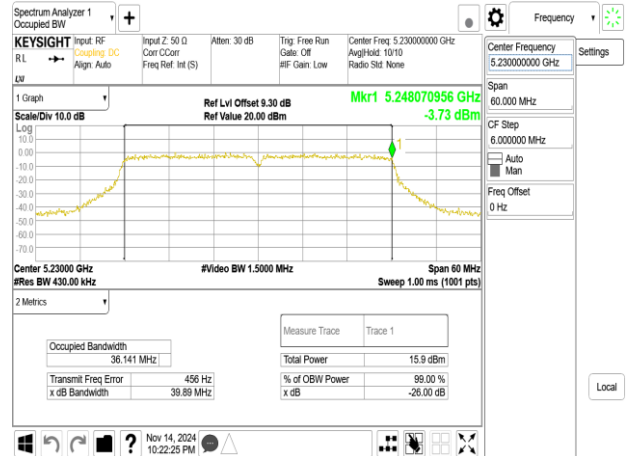
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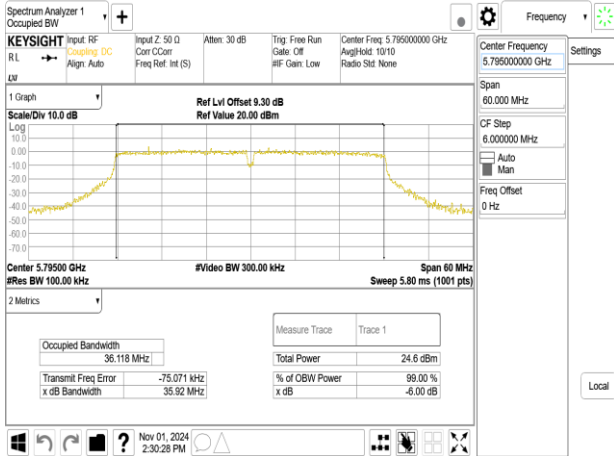
802.11n_40MHz_Chain0_5755MHz



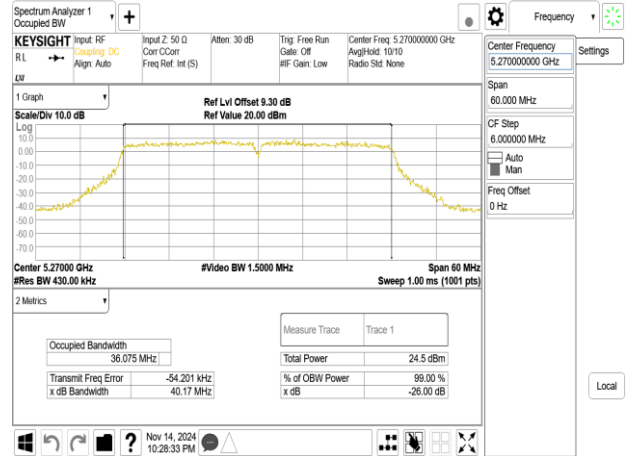
802.11n_40MHz_Chain1_5230MHz



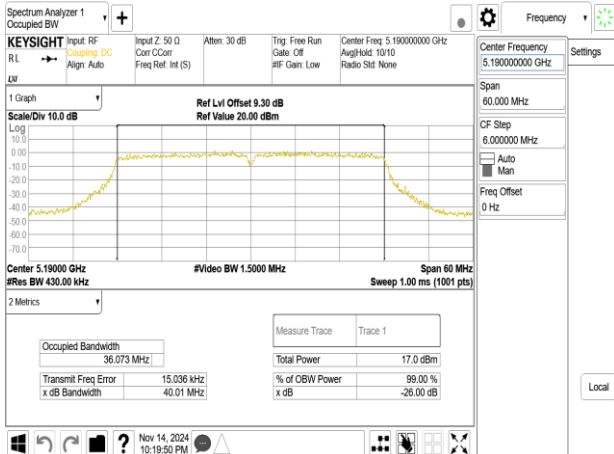
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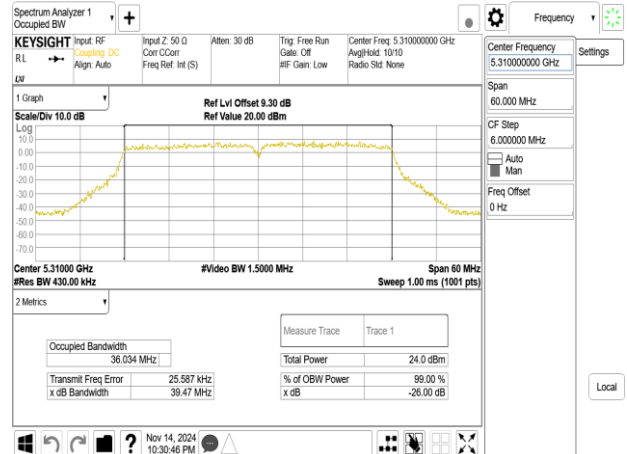
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz



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