ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

FCC Applicant:	Seiko Epson Corporation 3-3-5 Owa Suwa-shi, Nagano-Ken 392-8502 Japan
FCC Manufacturer:	Seiko Epson Corporation 6925 Tazawa, Toyoshina, Azumino-shi, (Toyoshina Branch), Nagano, 399-8285 Japan
Product Name:	WLAN BT Module
Brand Name:	EPSON
Model No.:	NH7
Model Difference:	N/A
Report Number:	TERF2406001650E2
FCC ID	BKMAE-NH7
Date of EUT Received:	June 7, 2024
Date of Test:	June 20, 2024 ～ July 30, 2024
Issue Date:	August 7, 2024

Approved By Aken Huang

Aken Huang

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
TERF2406001650E2	00	Original	August 7, 2024	Yuri Tsai	

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 BT Module
Brand Name:	EPSON
Model No.:	NH7
Model Difference:	N/A
Hardware Version:	V1.0
Firmware Version:	V2.015
EUT Series No.:	ARTFBNH700101045E08YRC0.00RV0.00
Power Supply:	5Vdc
Test Software (Name/Version)	adb.exe_1.0.41

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 for OFDMA in 802.11ax
Transition Rate:	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	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ANT0	5150~5250	2.42
		5250~5350	2.42
		5470~5725	1.79
		5725~5850	1.69
		5850~5895	1.69
PIFA	ANT1	5150~5250	3.24
		5250~5350	3.24
		5470~5725	1.53
		5725~5850	1.66
		5850~5895	1.66

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	14.92 dBm	OFDM
	5260~5320	4	19.85 dBm	OFDM
	5500~5720	12	15.48 dBm	OFDM
	5745-5825	5	15.78 dBm	OFDM
	5845~5885	3	17.88 dBm	OFDM
802.11n_HT40 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	14.91 dBm	OFDM
	5270~5310	2	14.93 dBm	OFDM
	5510~5710	6	14.99 dBm	OFDM
	5755-5795	2	14.92 dBm	OFDM
	5835~5875	2	16.61 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	14.99 dBm	OFDM
	5290	1	13.64 dBm	OFDM
	5530~5690	3	14.96 dBm	OFDM
	5775	1	14.98 dBm	OFDM
	5855	1	14.27 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
FCC KDB 291074 D02 EMC Measurement v01
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 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.

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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

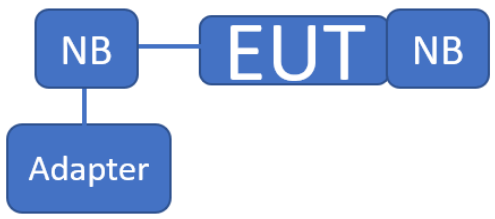
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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

Conduction Setup



Conducted Setup

Radiated Setup

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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	Quanta	NH7-01	N/A	N/A	N/A
NB Adapter	Lenovo	45N0119	11S45N0119Z1ZHXT 1CEAA2	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A
Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	P0003858	N/A	N/A
USB Cable	Quanta	NH7-01	N/A	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	Quanta	NH7-01	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	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				

UNII-4 5850 MHz ~ 5925MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
169	5845	167	5835	171	5885
173	5865	175	5875		
177	5885				

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

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

CONDUCTED TEST						
MODE	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 26/0,26/8 52/37,52/40 106/53,106/54	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 242/61,242/62	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 484/65,484/66	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			
	5845~5885	169 to 177	173			

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			
	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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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 26/0,26/8 52/37,52/40 106/53,106/54	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 242/61,242/62	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 484/65,484/66	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

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

6.2 Condcuted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Woken	WATT-218FS-10	RF16	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF25	11/15/2023	11/14/2024
Coaxial Cables	Woken	00100A1F1A185C	RF77	11/15/2023	11/14/2024
DC Block	PASTERNACK	PE8210	RF153	11/15/2023	11/14/2024
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/17/2024	06/16/2025
Switch E-Channel	E-Channel	ETF-1801 RF Switch	EC2100326	11/15/2023	11/14/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Band Rejection Filter	Micro-Tronics	G015	RF198	11/15/2023	11/14/2024
Band Rejection Filter	Micro-Tronics	G016	RF199	11/15/2023	11/14/2024
Band Rejection Filter	Micro-Tronics	G021	RF200	11/15/2023	11/14/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	1208	07/21/2023	07/20/2024
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、210220、210221	03/13/2024	03/12/2025
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216、210217、210218	03/13/2024	03/12/2025
Highpass Filter	R&S	HPF7.0	RF176	11/15/2023	11/14/2024
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Lowpass Filter	Woken	EWT-56-0019	RF173	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	05/08/2024	05/07/2025
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/17/2023	07/16/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

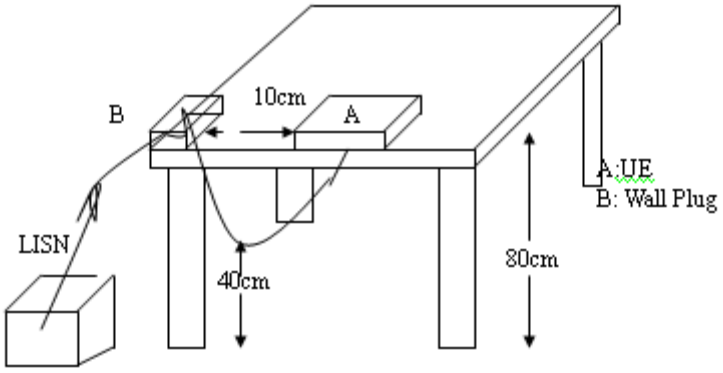
Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

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



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7.4 Measurement Procedure

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

7.5 Measurement Result

Note: Refer to next page for measurement data and plots.
Note2: The * reveals the worst-case results that closest to the limit.

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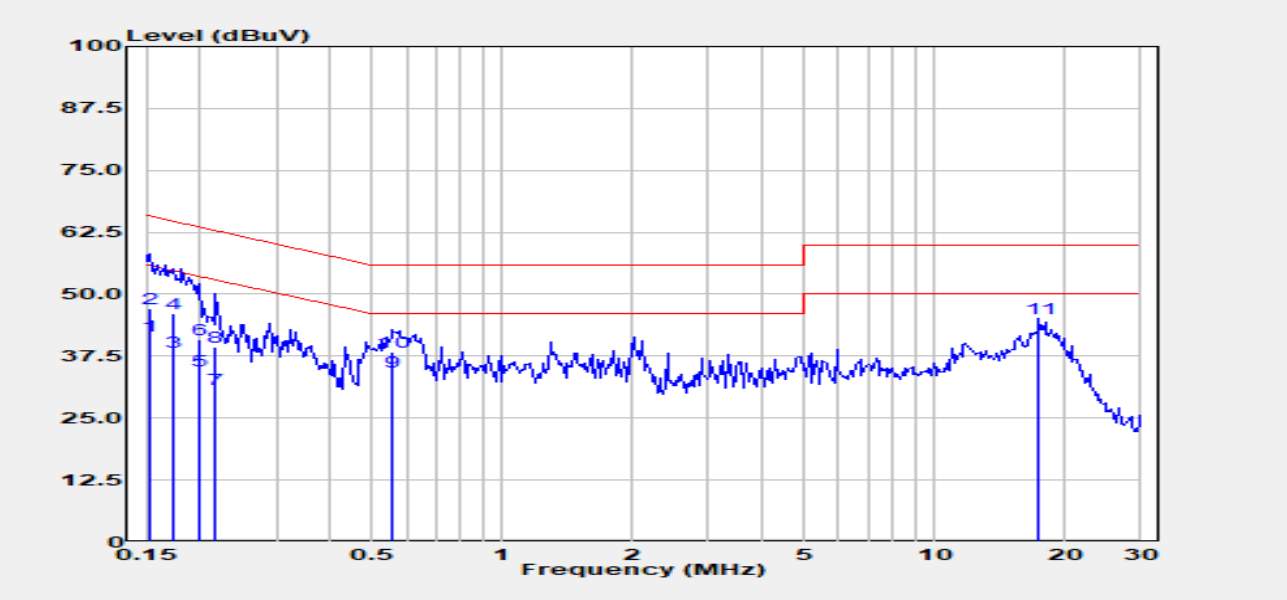
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2406001650E2	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2024-06-25
Power	:120V/60Hz	Temp./Humi.	:24.3℃/47%
Probe	:L1	Engineer	:Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	31.00	10.65	41.65	55.82	-14.17
0.153	QP	36.50	10.65	47.15	65.82	-18.67
0.174	Average	27.80	10.65	38.45	54.77	-16.32
0.174	QP	35.50	10.65	46.15	64.77	-18.62
0.200	Average	23.90	10.65	34.55	53.62	-19.07
0.200	QP	30.30	10.65	40.95	63.62	-22.67
0.217	Average	20.30	10.65	30.95	52.92	-21.97
0.217	QP	28.70	10.65	39.35	62.92	-23.57
0.558	Average	23.80	10.63	34.43	46.00	-11.57
0.558	QP	27.70	10.63	38.33	56.00	-17.67
17.475	Peak	33.92	11.12	45.04	60.00	-14.96

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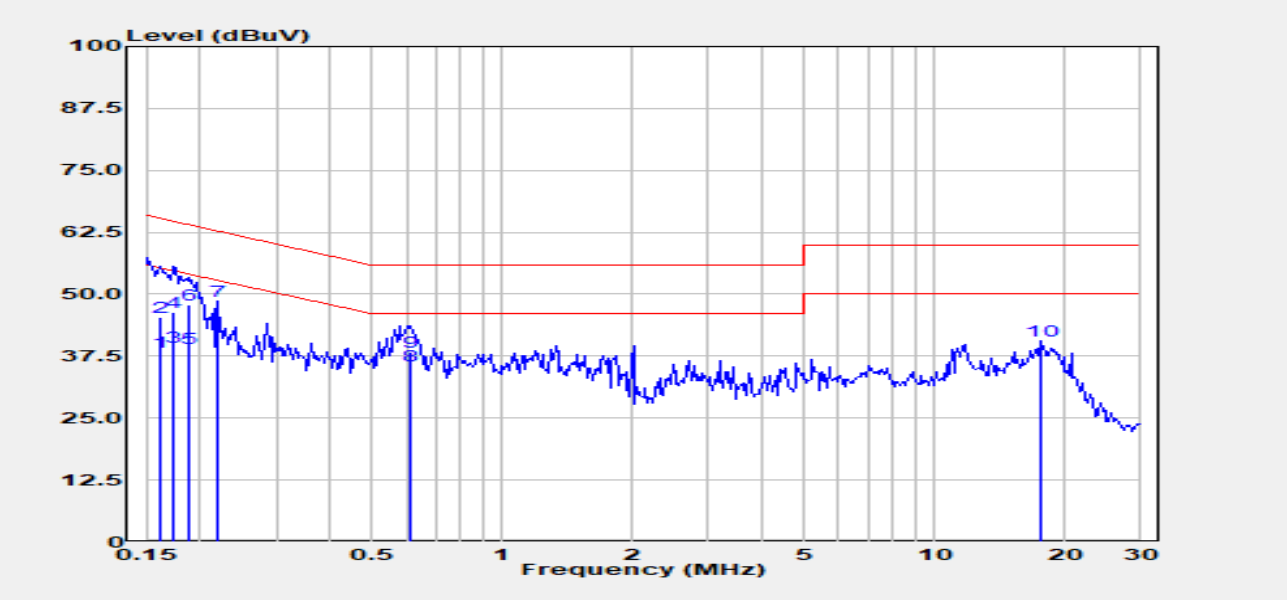
Report Number	:TERF2406001650E2	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2024-06-25
Power	:120V/60Hz	Temp./Humi.	:24.3℃/47%
Probe	:N	Engineer	:Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.162	Average	27.60	10.66	38.26	55.38	-17.13
0.162	QP	34.80	10.66	45.46	65.38	-19.93
0.174	Average	28.70	10.65	39.35	54.77	-15.41
0.174	QP	35.60	10.65	46.25	64.77	-18.51
0.189	Average	28.50	10.65	39.15	54.06	-14.91
0.189	QP	37.20	10.65	47.85	64.06	-16.21
0.220	Peak	38.07	10.64	48.72	62.83	-14.11
0.614	Average	25.00	10.62	35.62	46.00	-10.38
0.614	QP	27.60	10.62	38.22	56.00	-17.78
17.661	Peak	29.56	11.12	40.68	60.00	-19.32

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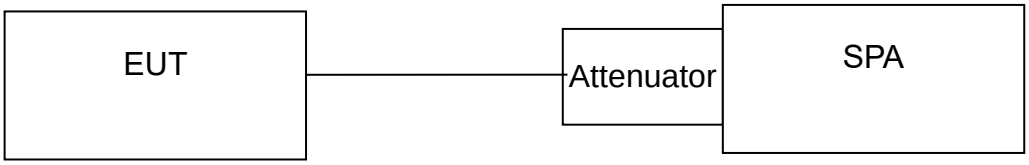
8 EMISSION BANDWIDTH MEASUREMENT

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 & UNII-4.

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.& 5.850~5.895GHz
   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. 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	26.69	14.260
5220	29.73	14.730
5240	19.69	12.940
5260	23.81	13.770
5300	24.16	13.830
5320	26.51	14.230
5500	30.00	14.770
5580	27.22	14.350
5700	25.05	13.990
5720(U-NII 2C)	17.44	12.420
5720(U-NII 3)	7.44	8.720

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.44	11.890
5785	16.40	12.150
5825	16.36	12.140
5845(U-NII 3)	13.23	11.220
5845(U-NII 4)	3.23	5.090
5865	16.17	12.090
5885	16.39	12.150

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.292488	< 5250
5745	5736.704315	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.19	13.460
5220	22.62	13.540
5240	19.71	12.950
5260	22.90	13.600
5300	23.04	13.620
5320	22.92	13.600
5500	22.88	13.590
5580	22.21	13.470
5700	23.41	13.690
5720(U-NII 2C)	16.17	12.090
5720(U-NII 3)	6.16	7.900

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.34	12.130
5785	16.38	12.140
5825	16.37	12.140
5845(U-NII 3)	13.19	11.200
5845(U-NII 4)	3.19	5.040
5865	16.34	12.130
5885	16.38	12.140

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.183684	< 5250
5745	5736.767199	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	25.10	14.000
5220	28.04	14.480
5240	20.06	13.020
5260	25.94	14.140
5300	23.88	13.780
5320	26.98	14.310
5500	26.58	14.250
5580	25.11	14.000
5700	26.38	14.210
5720(U-NII 2C)	16.95	12.290
5720(U-NII 3)	6.95	8.420

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.65	12.210
5785	16.95	12.290
5825	17.19	12.350
5845(U-NII 3)	13.68	11.360
5845(U-NII 4)	3.68	5.660
5865	16.68	12.220
5885	16.06	12.060

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.888754	< 5250
5745	5736.143506	> 5725

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802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.11	13.640
5220	22.30	13.480
5240	19.66	12.940
5260	22.31	13.480
5300	22.38	13.500
5320	25.13	14.000
5500	24.08	13.820
5580	22.24	13.470
5700	22.04	13.430
5720(U-NII 2C)	16.55	12.190
5720(U-NII 3)	6.55	8.160

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.58	12.450
5785	17.59	12.450
5825	16.72	12.230
5845(U-NII 3)	13.47	11.290
5845(U-NII 4)	3.47	5.400
5865	17.30	12.380
5885	17.33	12.390

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.761793	< 5250
5745	5736.175700	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.48	15.960
5230	39.55	15.970
5270	39.45	15.960
5310	39.79	16.000
5510	46.24	16.650
5550	**39.55**	15.970
5670	39.77	16.000
5710(U-NII 2C)	34.86	15.420
5710(U-NII 3)	4.86	6.870

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	30.09	14.780
5795	31.36	14.960

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.134183	< 5250
5755	5737.064588	> 5725

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802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.68	15.870
5230	38.60	15.870
5270	38.90	15.900
5310	38.81	15.890
5510	38.79	15.890
5550	**39.31**	15.950
5670	38.86	15.900
5710(U-NII 2C)	34.49	15.380
5710(U-NII 3)	4.49	6.520

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	27.66	14.420
5795	32.58	15.130

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.996523	< 5250
5755	5737.166153	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.16	19.040
5290	79.40	19.000
5530	79.34	18.990
5610	79.67	19.010
5690(U-NII 2C)	74.81	18.740
5690(U-NII 3)	4.81	6.820

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.91	18.690
5855(U-NII 3)	25.13	14.000
5855(U-NII 4)	35.13	15.460

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.911164	< 5250
5775	5737.164200	> 5725

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802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	78.73	18.960
5290	78.59	18.950
5530	78.82	18.970
5610	78.65	18.960
5690(U-NII 2C)	74.35	18.710
5690(U-NII 3)	4.35	6.380

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.10	18.760
5855(U-NII 3)	31.94	15.040
5855(U-NII 4)	41.94	16.230

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.437291	< 5250
5775	5737.500617	> 5725

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802.11ax_HE20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.82	13.580
5180	26/0	20.24	13.060
5180	52/37	20.93	13.210
5180	106/53	21.82	13.390
5220	full	21.49	13.320
5240	full	19.73	12.950
5260	full	21.09	13.240
5300	full	21.39	13.300
5320	full	21.57	13.340
5320	26/8	20.37	13.090
5320	52/40	20.58	13.130
5320	106/54	20.73	13.170
5500	full	22.04	13.430
5500	26/0	19.84	12.980
5500	52/37	22.08	13.440
5500	106/53	20.86	13.190
5580	full	21.28	13.280
5700	full	20.99	13.220
5700	26/8	19.83	12.970
5700	52/40	20.37	13.090
5700	106/54	20.31	13.080
5720 (U-NII 2C)	full	15.73	11.970
5720 (U-NII 3)	full	5.73	7.590

802.11ax_HE20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.27	12.620
5745	26/0	2.153	3.330
5745	52/37	17.04	12.310
5745	106/53	15.91	12.020
5785	full	17.64	12.460
5825	full	18.71	12.720
5825	26/8	2.091	3.200
5825	52/40	17.00	12.300
5825	106/54	17.09	12.330
5845 (U-NII 3)	full	14.21	11.530
5845 (U-NII 4)	full	4.21	6.240
5865	full	18.24	12.610
5885	full	18.63	12.700

802.11ax_HE20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.457742	< 5250
5745	5735.565883	> 5725

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802.11ax_HE20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	21.67	13.360
5180	26/0	19.88	12.980
5180	52/37	18.96	12.780
5180	106/53	19.77	12.960
5220	full	21.08	13.240
5240	full	19.87	12.980
5260	full	22.68	13.560
5300	full	21.51	13.330
5320	full	22.41	13.500
5320	26/8	20.02	13.010
5320	52/40	20.11	13.030
5320	106/54	20.23	13.060
5500	full	22.02	13.430
5500	26/0	20.14	13.040
5500	52/37	20.24	13.060
5500	106/53	20.72	13.160
5580	full	21.73	13.370
5700	full	21.40	13.300
5700	26/8	20.21	13.060
5700	52/40	19.99	13.010
5700	106/54	19.82	12.970
5720 (U-NII 2C)	full	15.81	11.990
5720 (U-NII 3)	full	5.81	7.640

802.11ax_HE20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.67	12.710
5745	26/0	2.105	3.230
5745	52/37	14.60	11.640
5745	106/53	17.11	12.330
5785	full	17.67	12.470
5825	full	18.07	12.570
5825	26/8	2.094	3.210
5825	52/40	15.79	11.980
5825	106/54	17.17	12.350
5845 (U-NII 3)	full	14.40	11.580
5845 (U-NII 4)	full	4.40	6.430
5865	full	18.13	12.580
5885	full	18.73	12.730

802.11ax_HE20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.429859	< 5250
5745	5735.555893	> 5725

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802.11ax_HE40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.28	15.940
5190	242/61	39.34	15.950
5230	full	39.32	15.950
5270	full	39.15	15.930
5310	full	39.21	15.930
5310	242/62	38.38	15.840
5510	full	39.29	15.940
5510	242/61	39.34	15.950
5550	full	**39.23**	15.940
5670	full	39.31	15.950
5670	242/62	38.85	15.890
5710 (U-NII 2C)	full	34.58	15.390
5710 (U-NII 3)	full	4.58	6.610

802.11ax_HE40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	36.33	15.600
5755	242/61	18.79	12.740
5795	full	35.92	15.550
5795	242/62	18.81	12.740
5835 (U-NII 3)	full	30.69	14.870
5835 (U-NII 4)	full	0.69	-1.610
5875	full	31.30	14.960

802.11ax_HE40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.686316	< 5250
5755	5736.215028	> 5725

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802.11ax_HE40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.19	15.930
5190	242/61	39.25	15.940
5230	full	39.43	15.960
5270	full	39.20	15.930
5310	full	39.29	15.940
5310	242/62	39.30	15.940
5510	full	39.28	15.940
5510	242/61	39.03	15.910
5550	full	**39.23**	15.940
5670	full	39.28	15.940
5670	242/62	38.98	15.910
5710 (U-NII 2C)	full	34.55	15.380
5710 (U-NII 3)	full	4.55	6.580

802.11ax_HE40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	33.07	15.190
5755	242/61	18.82	12.750
5795	full	35.86	15.550
5795	242/62	18.83	12.750
5835 (U-NII 3)	full	30.71	14.870
5835 (U-NII 4)	full	0.71	-1.490
5875	full	28.91	14.610

802.11ax_HE40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.836051	< 5250
5755	5736.261411	> 5725

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802.11ax_HE80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.04	19.030
5210	484/65	79.56	19.010
5290	full	79.91	19.030
5290	484/66	79.19	18.990
5530	full	79.98	19.030
5530	484/65	79.87	19.020
5610	full	79.82	19.020
5610	484/66	79.74	19.020
5690 (U-NII 2C)	full	74.99	18.750
5690 (U-NII 3)	full	4.99	6.980

802.11ax_HE80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	72.62	18.610
5775	484/65	37.16	15.700
5775	484/66	37.89	15.790
5855 (U-NII 3)	full	28.36	14.530
5855 (U-NII 4)	full	38.36	15.840

802.11ax_HE80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.686023	< 5250
5775	5736.373959	> 5725

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802.11ax_HE80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.12	19.040
5210	484/65	79.64	19.010
5290	full	80.23	19.040
5290	484/66	79.67	19.010
5530	full	79.87	19.020
5530	484/65	79.25	18.990
5610	full	79.89	19.020
5610	484/66	79.61	19.010
5690 (U-NII 2C)	full	75.06	18.750
5690 (U-NII 3)	full	5.06	7.040

802.11ax_HE80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	71.47	18.540
5775	484/65	37.73	15.770
5775	484/66	37.93	15.790
5855 (U-NII 3)	full	32.69	15.140
5855 (U-NII 4)	full	42.69	16.300

802.11ax_HE80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.199918	< 5250
5775	5736.727145	> 5725

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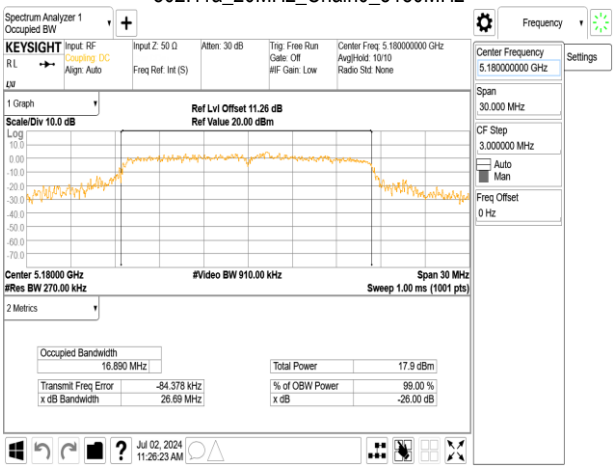
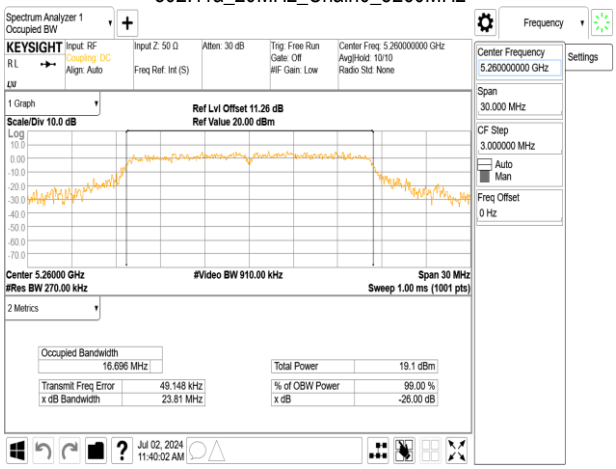
802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



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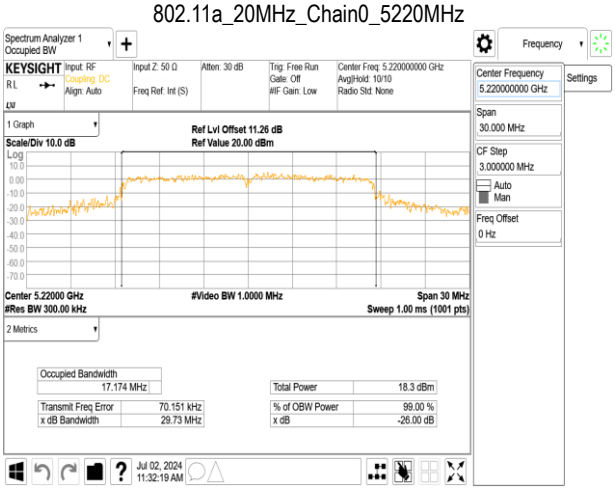
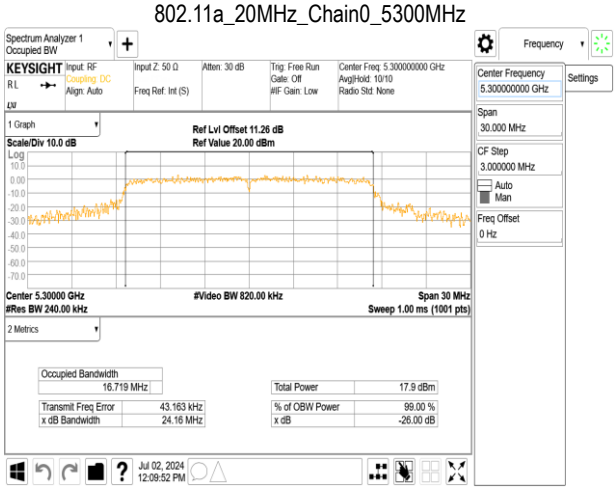
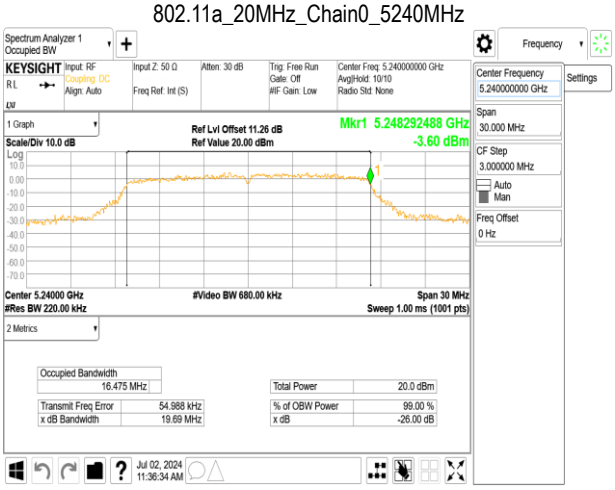


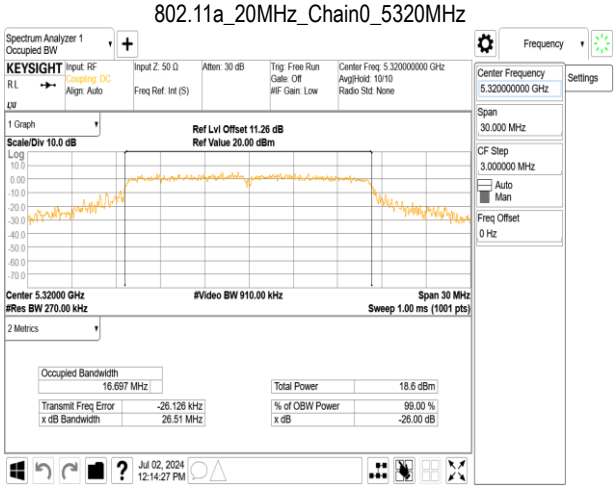
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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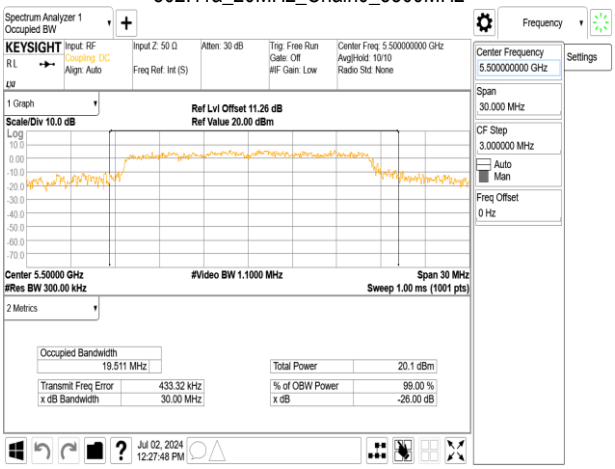
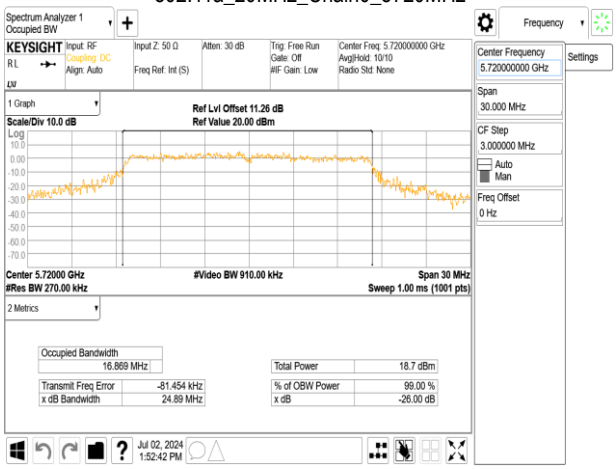
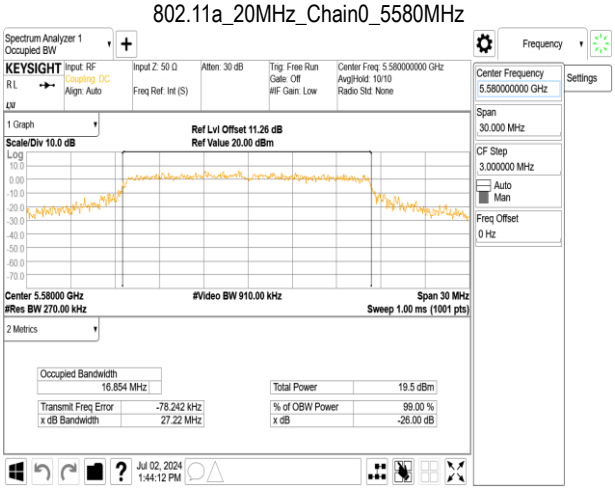
802.11a_20MHz_Chain0_5500MHz



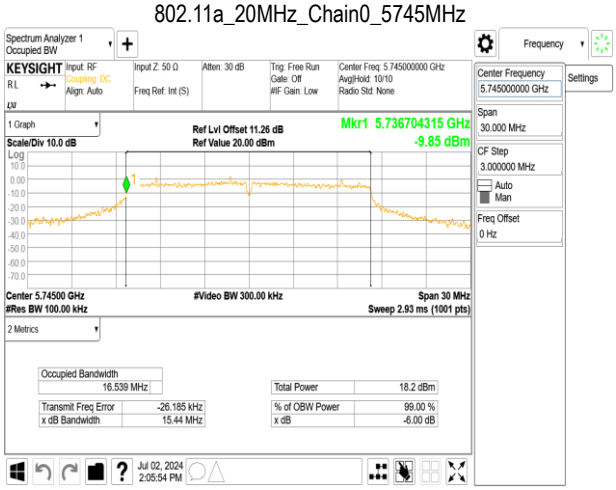
802.11a_20MHz_Chain0_5720MHz



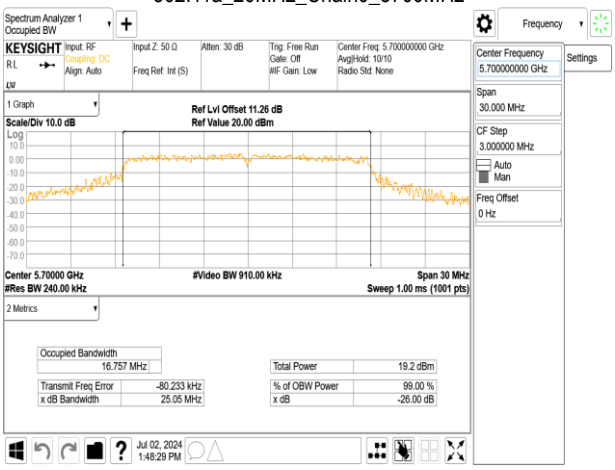
802.11a_20MHz_Chain0_5580MHz



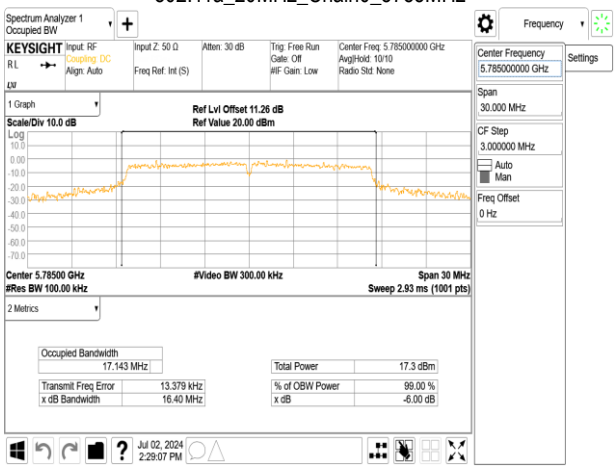
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz



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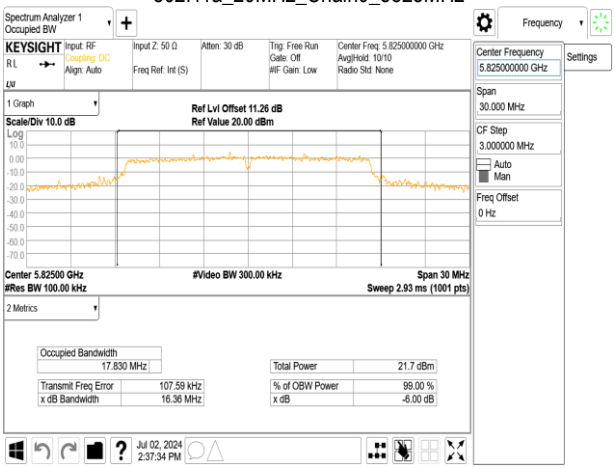
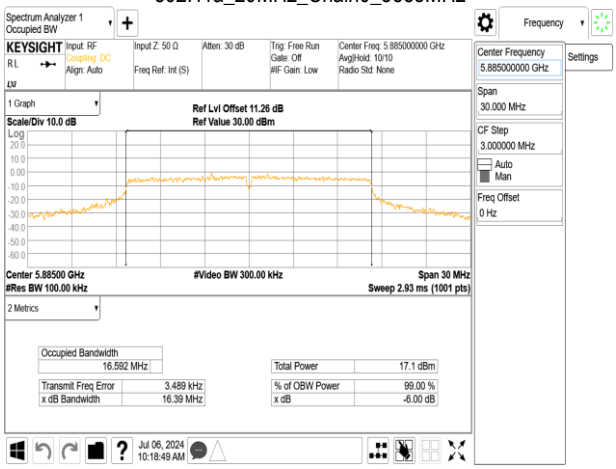
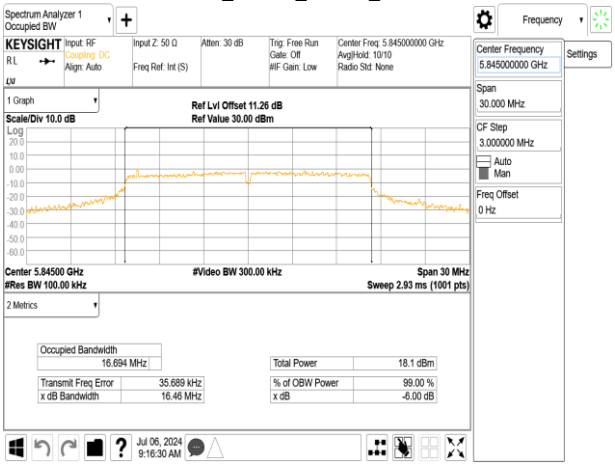
802.11a_20MHz_Chain0_5825MHz



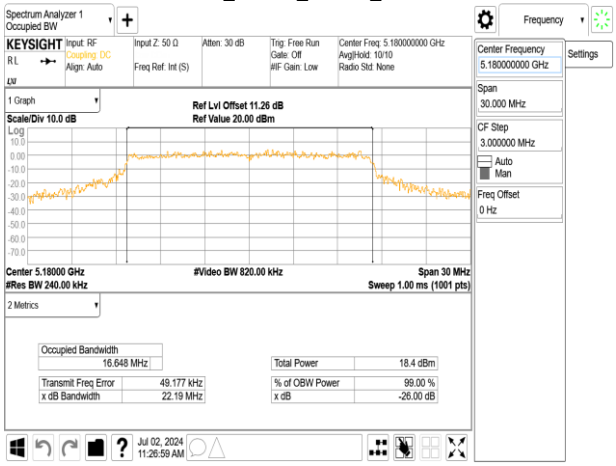
802.11a_20MHz_Chain0_5885MHz



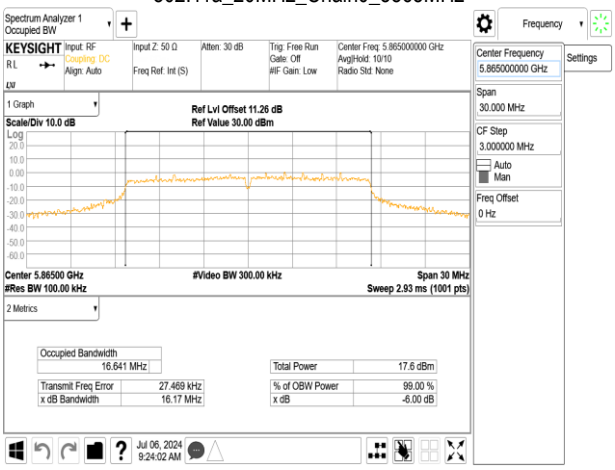
802.11a_20MHz_Chain0_5845MHz



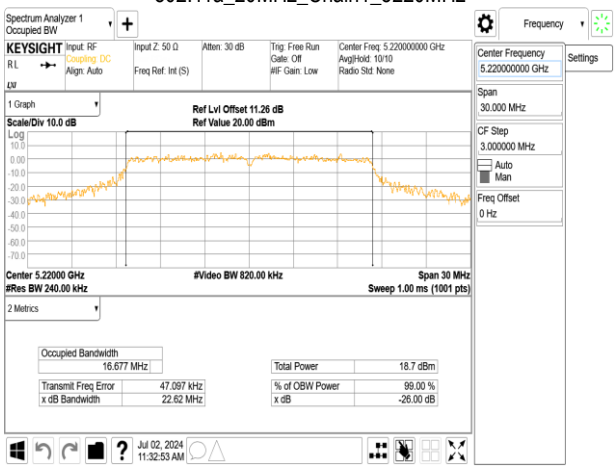
802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain0_5865MHz



802.11a_20MHz_Chain1_5220MHz



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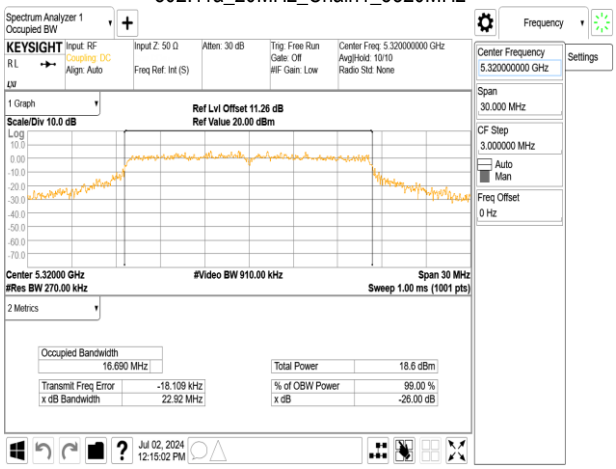
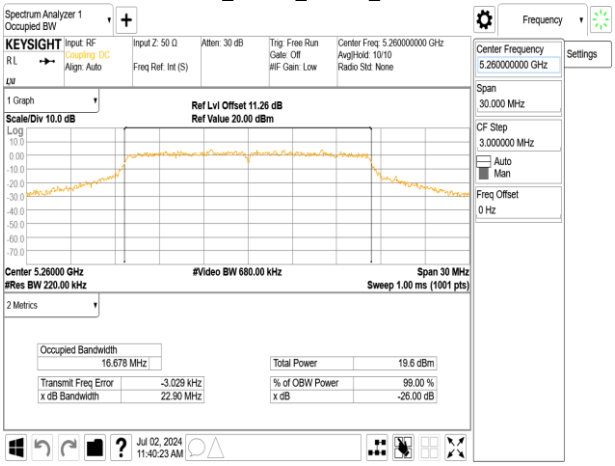
802.11a_20MHz_Chain1_5240MHz

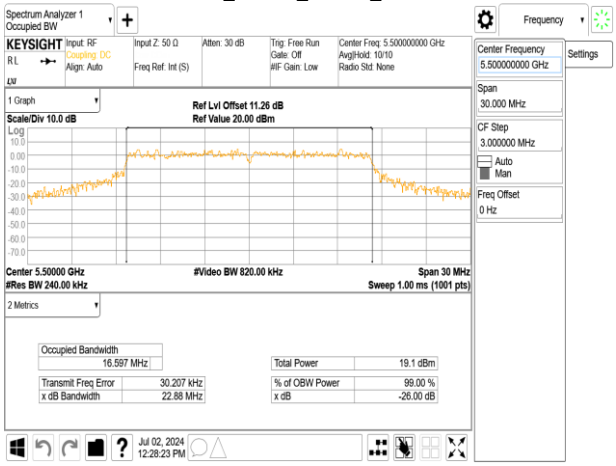
802.11a_20MHz_Chain1_5320MHz



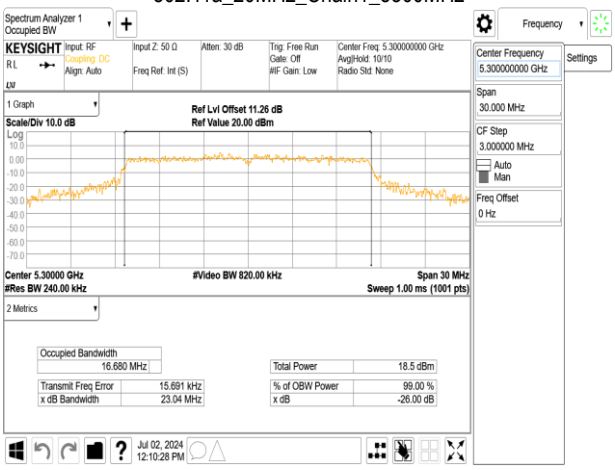
802.11a_20MHz_Chain1_5260MHz



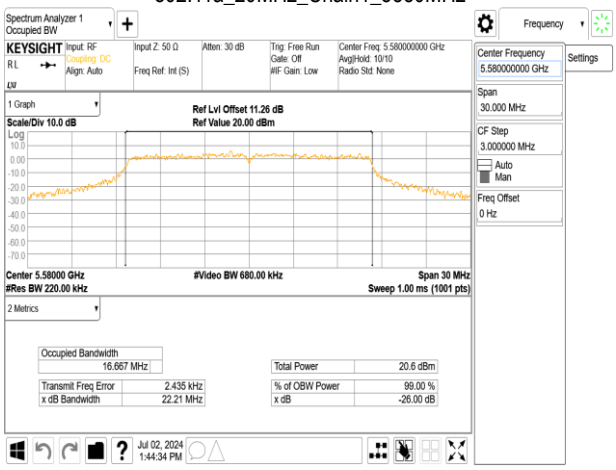
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5580MHz



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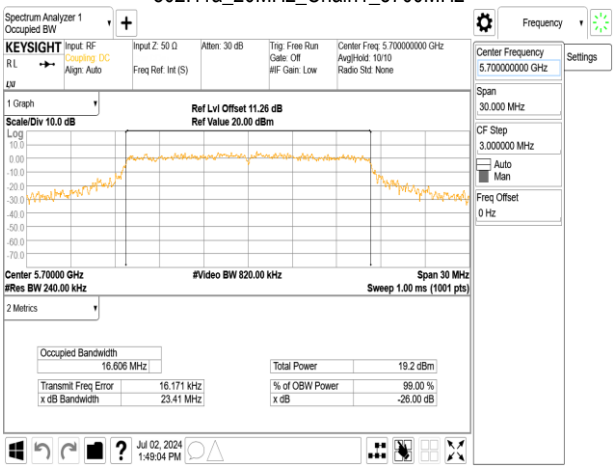
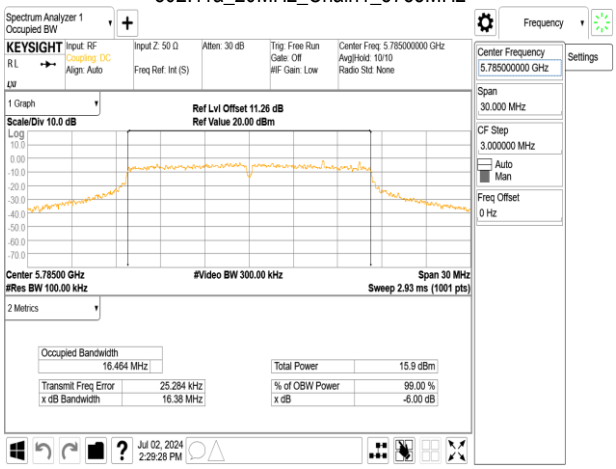
802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5785MHz



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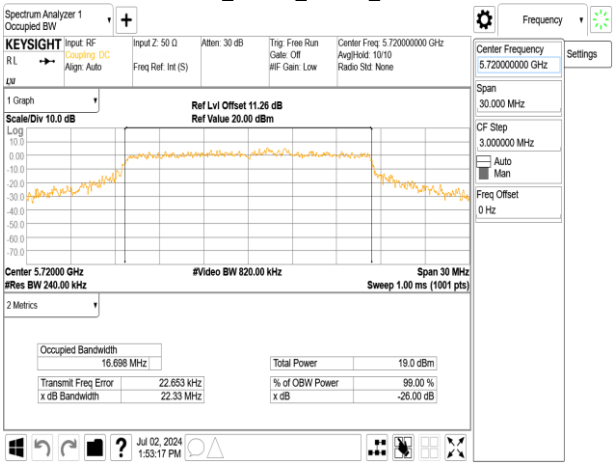
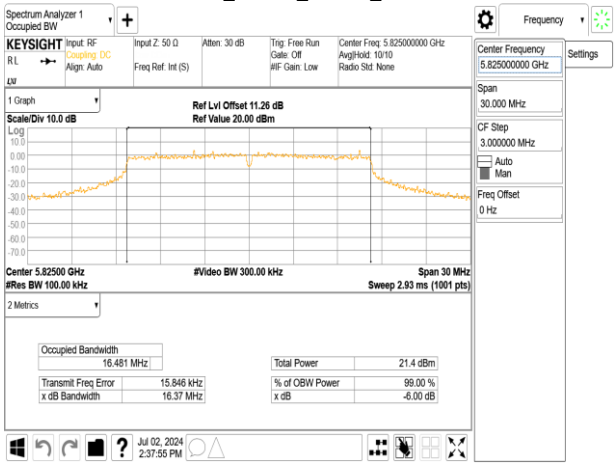
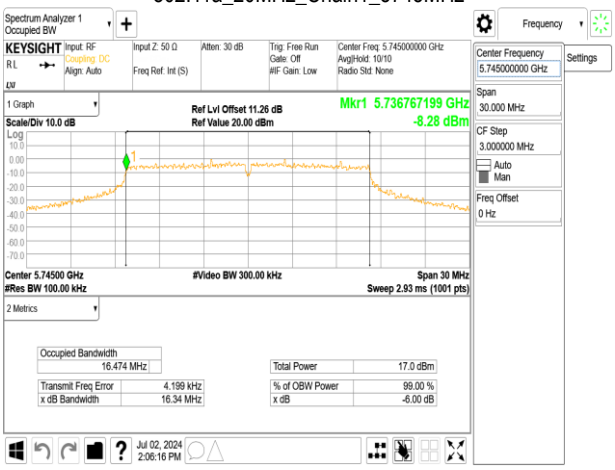


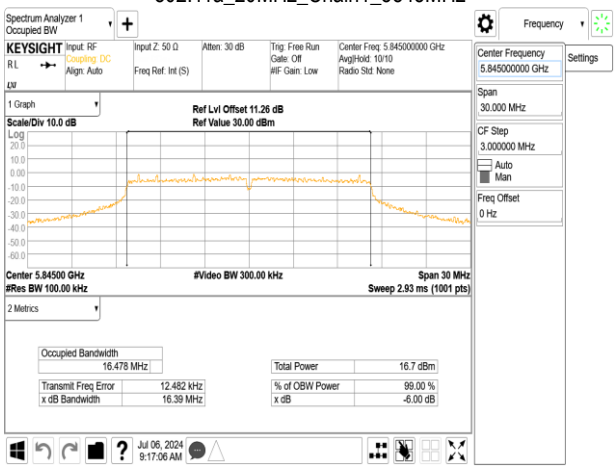
802.11a_20MHz_Chain1_5825MHz



802.11a_20MHz_Chain1_5745MHz



802.11a_20MHz_Chain1_5845MHz



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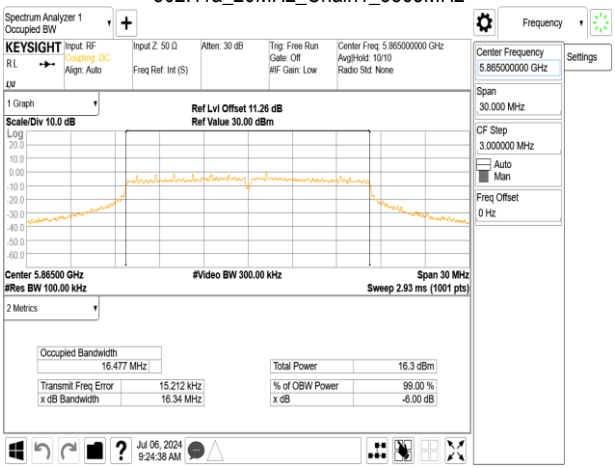
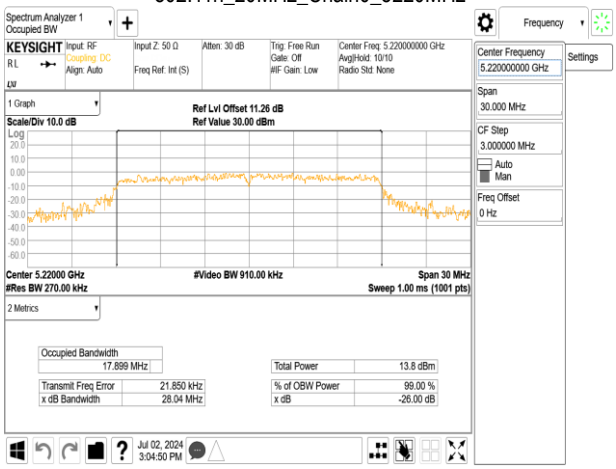
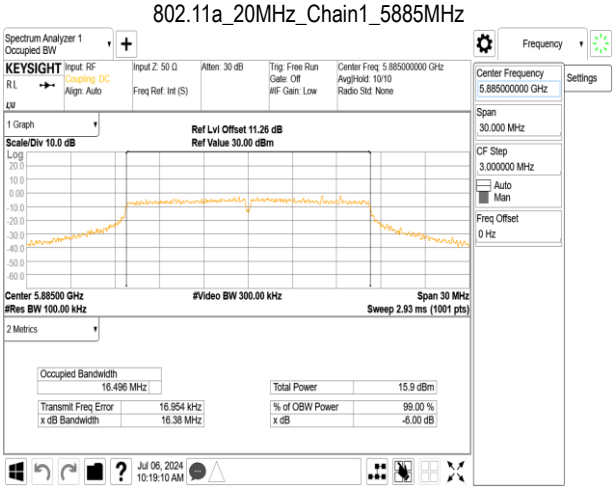
802.11a_20MHz_Chain1_5865MHz



802.11n_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain1_5885MHz



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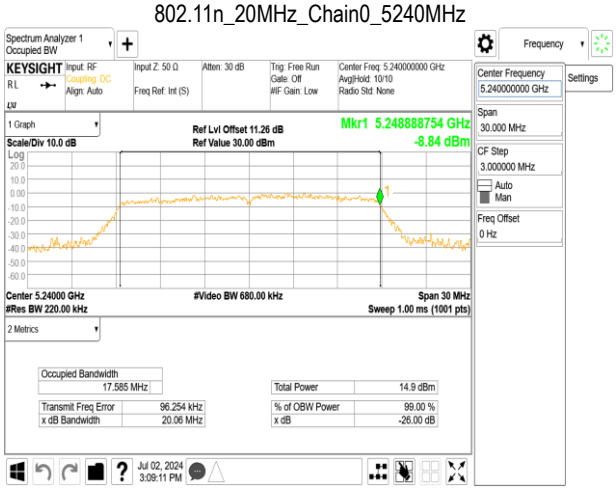
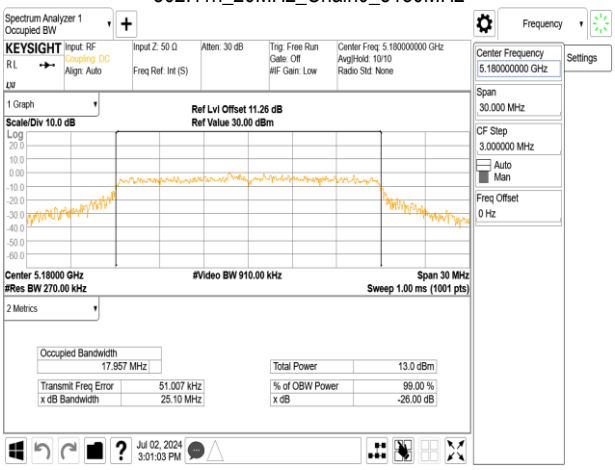


802.11n_20MHz_Chain0_5180MHz



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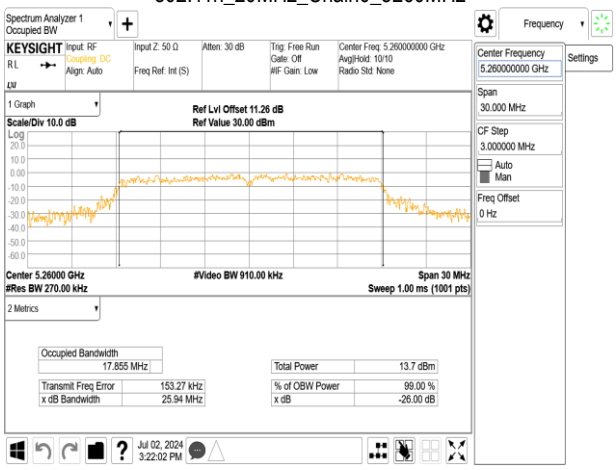

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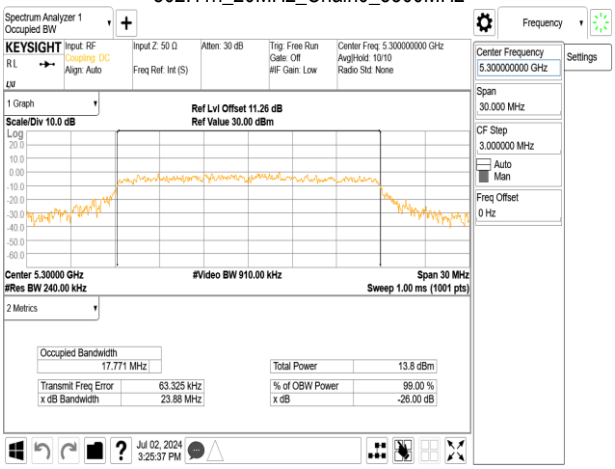
802.11n_20MHz_Chain0_5300MHz



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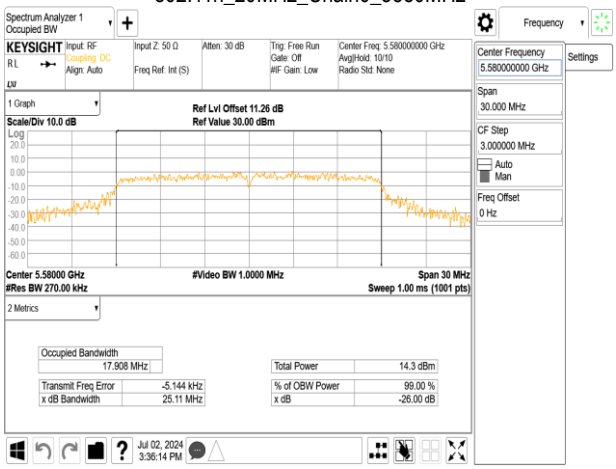

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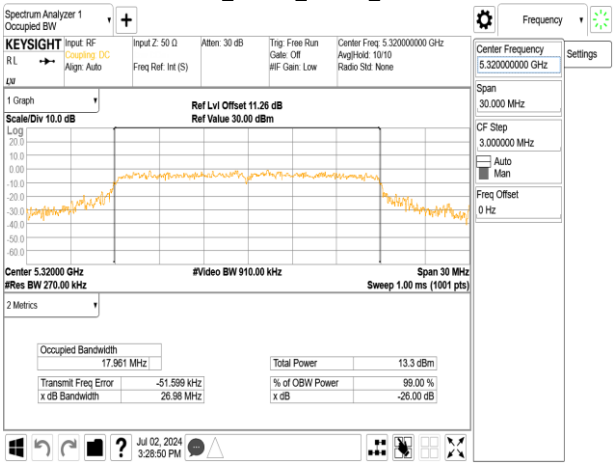
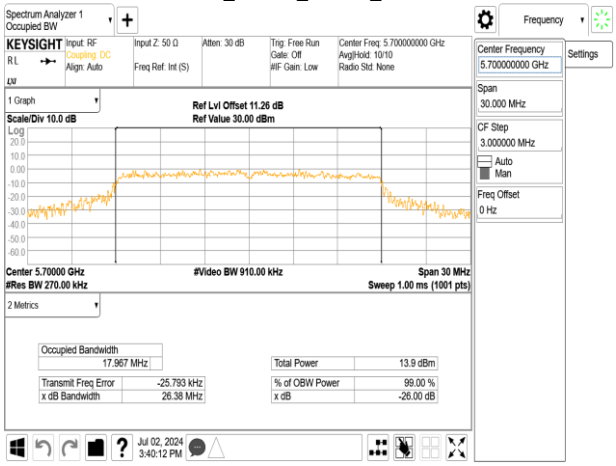


802.11n_20MHz_Chain0_5700MHz



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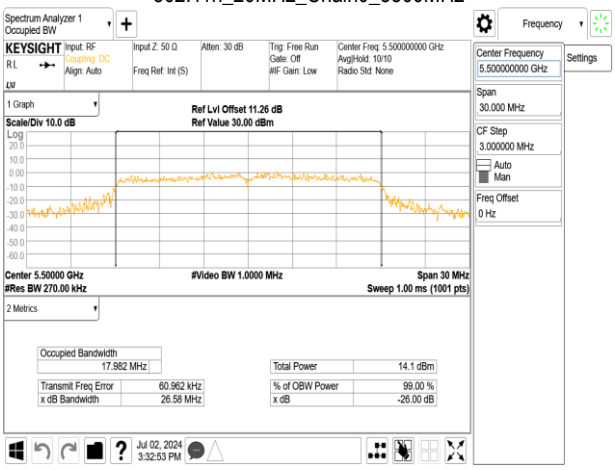
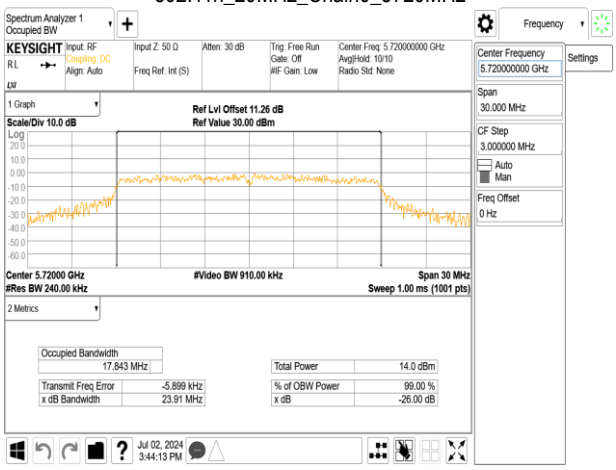


802.11n_20MHz_Chain0_5720MHz



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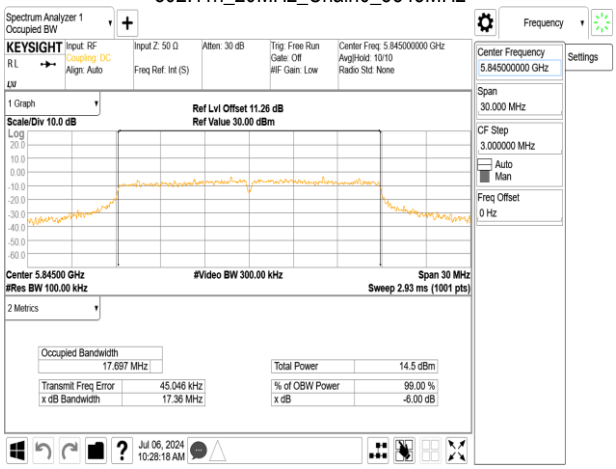
802.11n_20MHz_Chain0_5745MHz

802.11n_20MHz_Chain0_5845MHz



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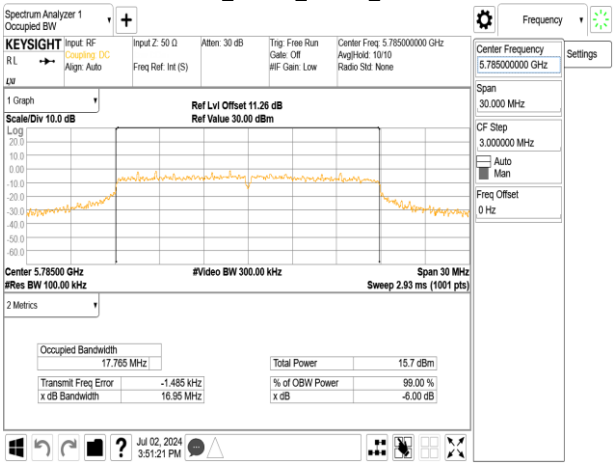
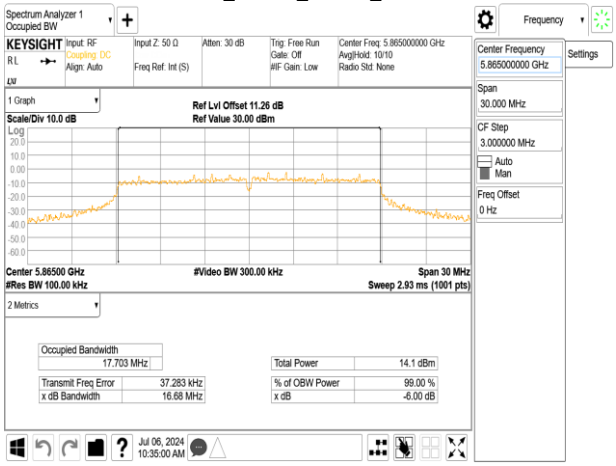


802.11n_20MHz_Chain0_5865MHz



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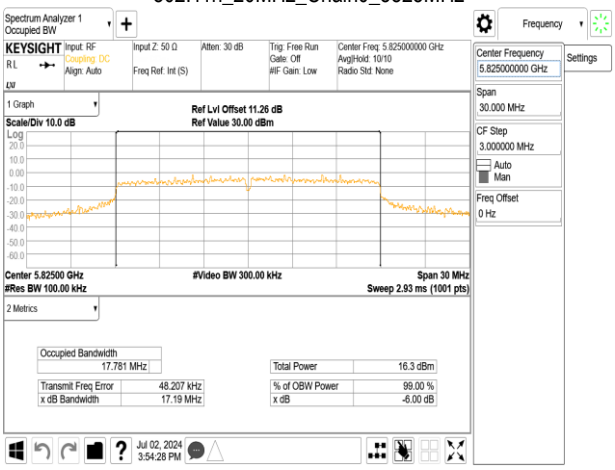
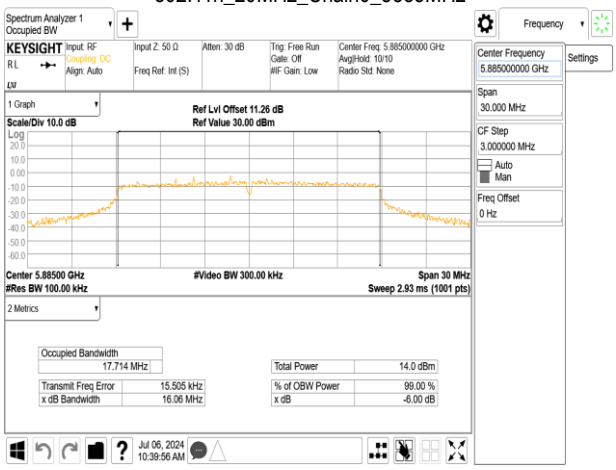


802.11n_20MHz_Chain0_5885MHz



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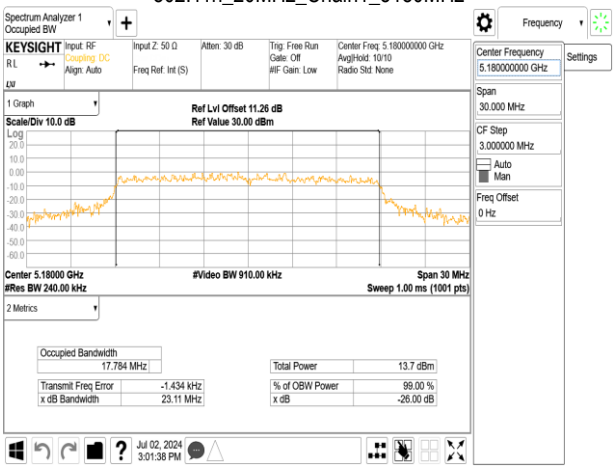
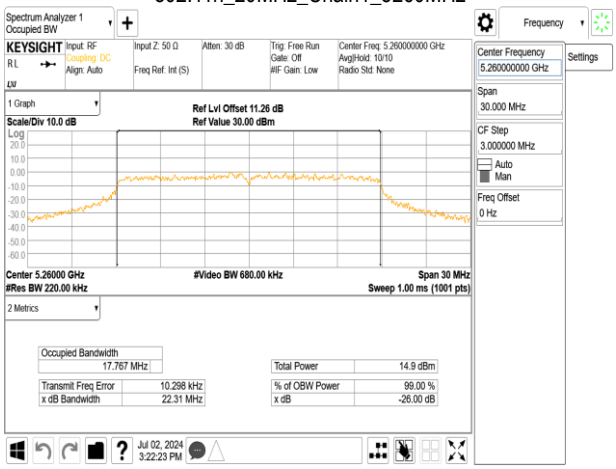
802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5260MHz



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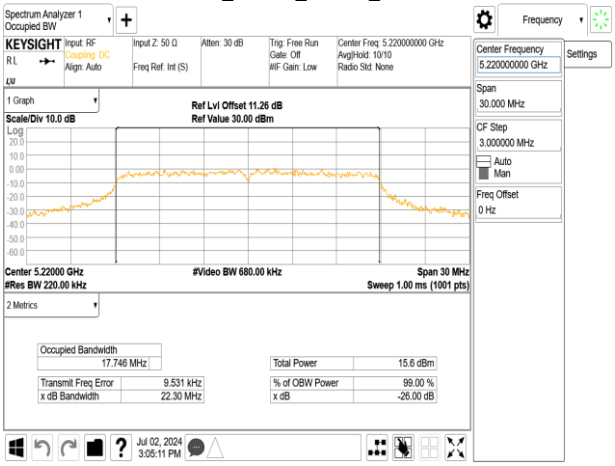
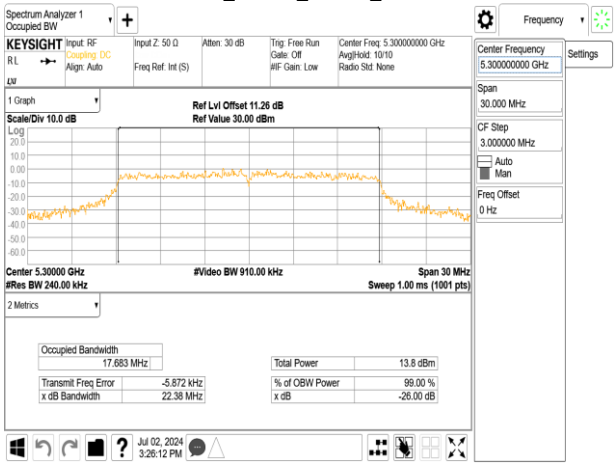
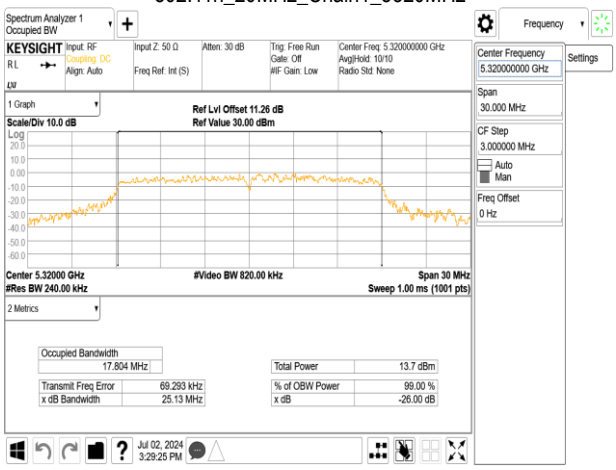


802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz

802.11n_20MHz_Chain1_5320MHz



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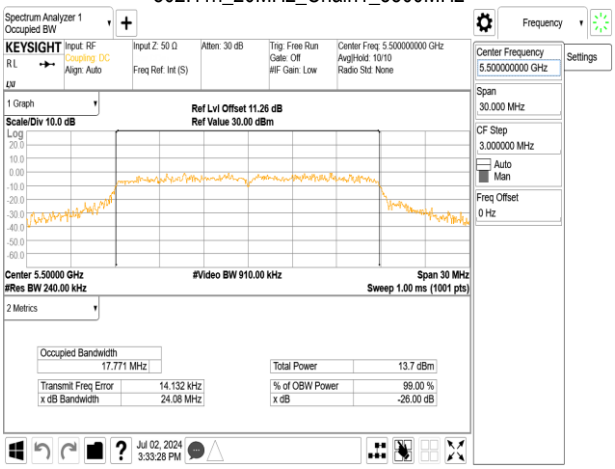
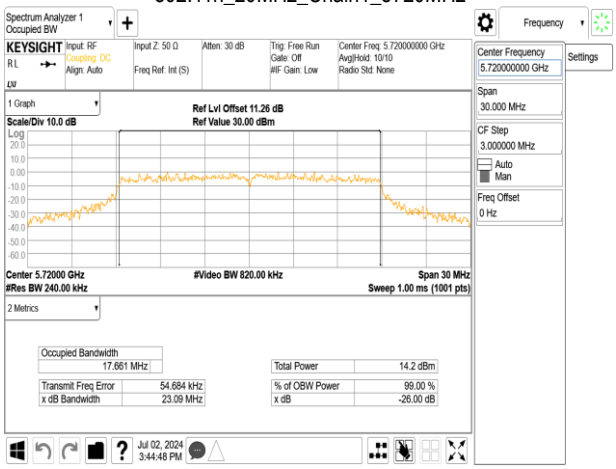
802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5720MHz



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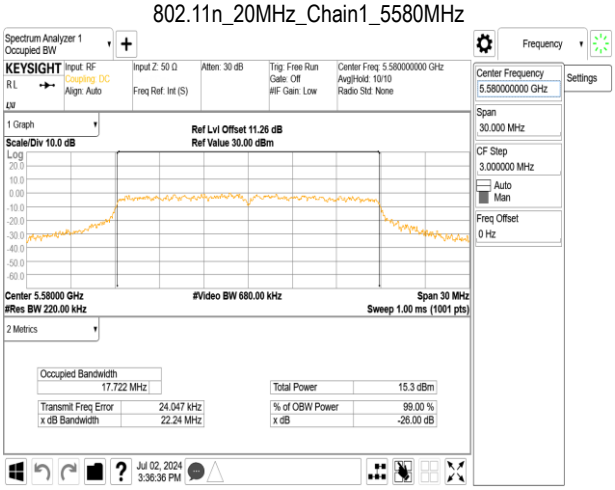

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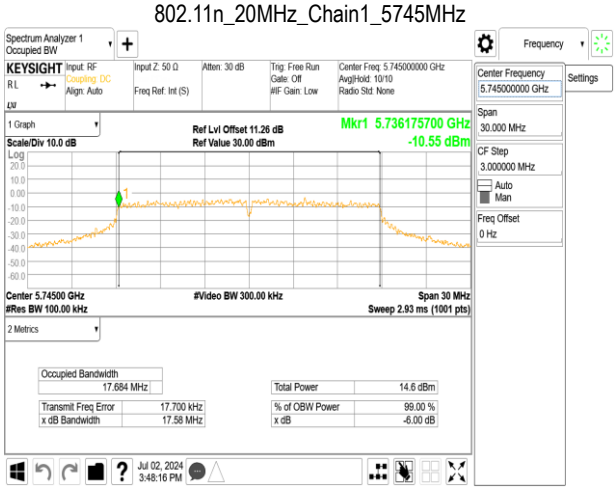

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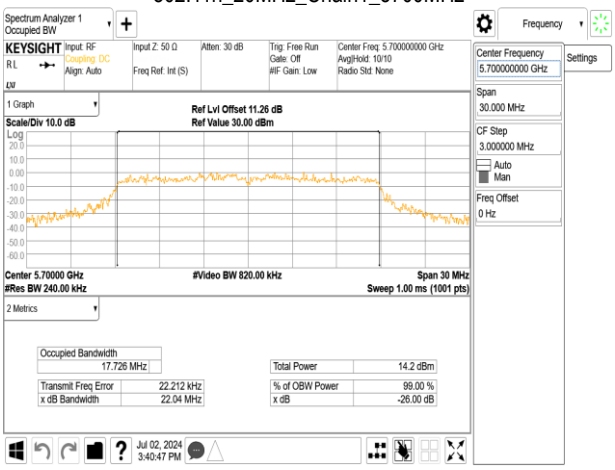
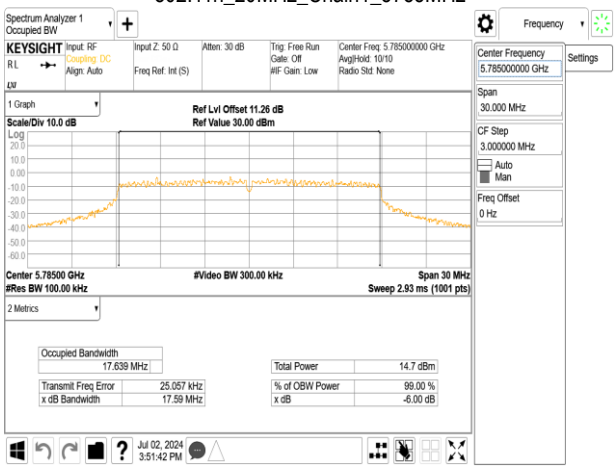


802.11n_20MHz_Chain1_5785MHz



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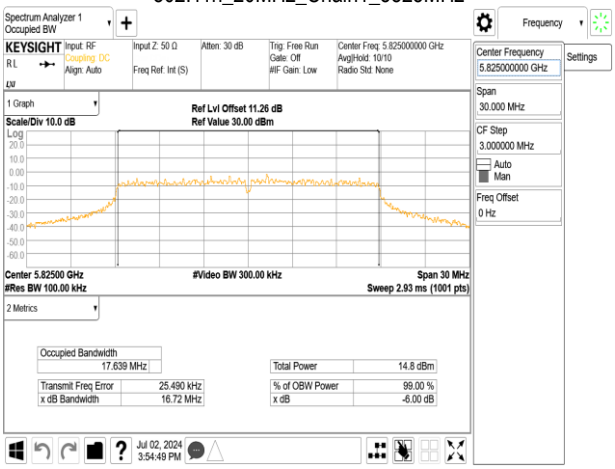
802.11n_20MHz_Chain1_5825MHz



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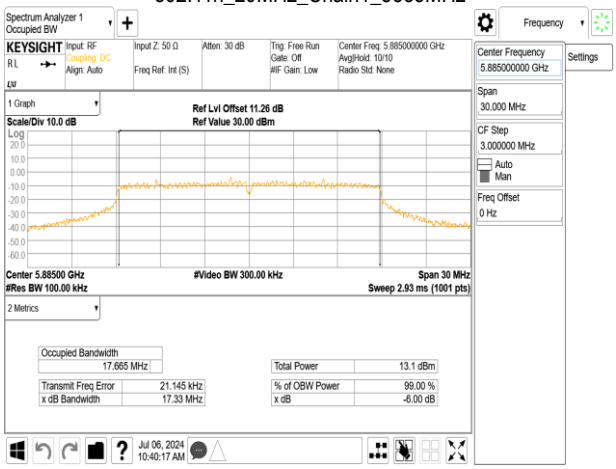
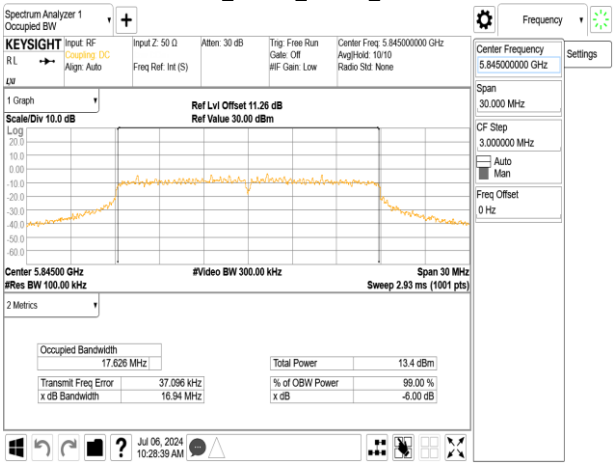
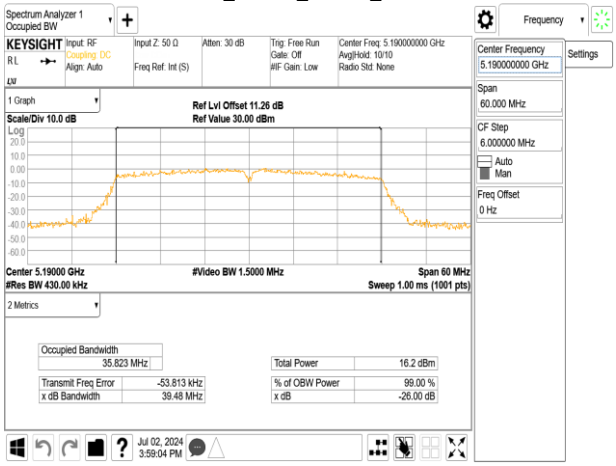


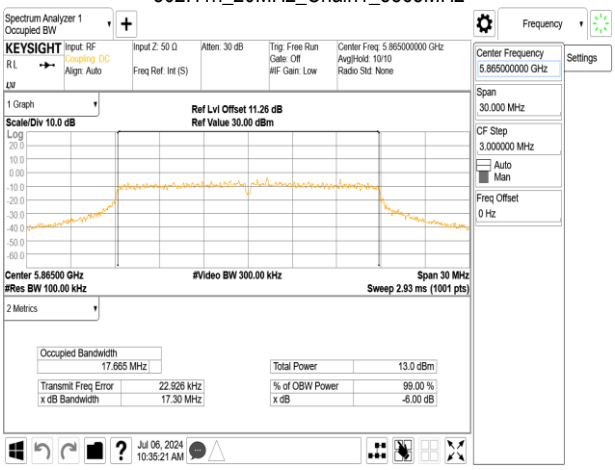
802.11n_20MHz_Chain1_5845MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5865MHz



802.11n_40MHz_Chain0_5230MHz

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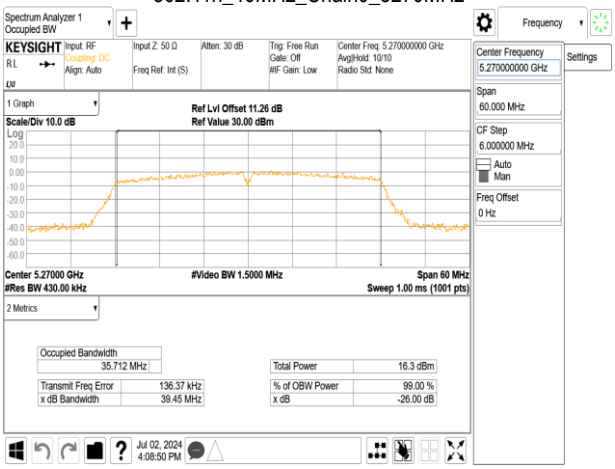
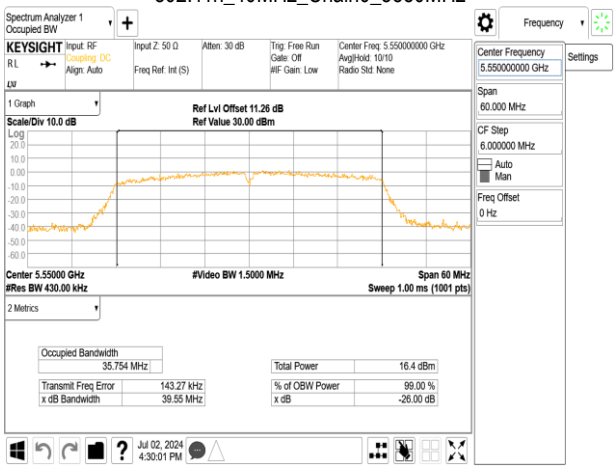
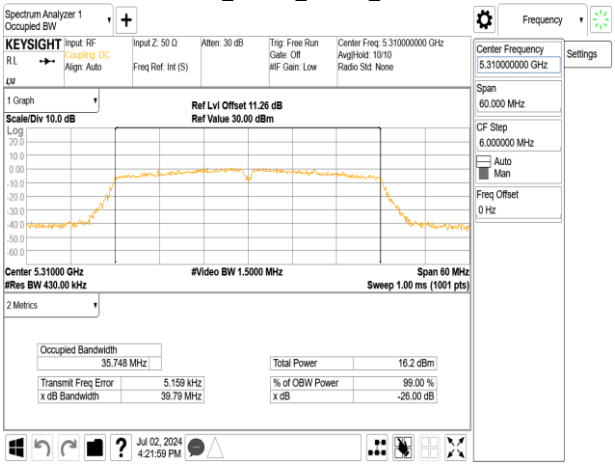
802.11n_40MHz_Chain0_5270MHz



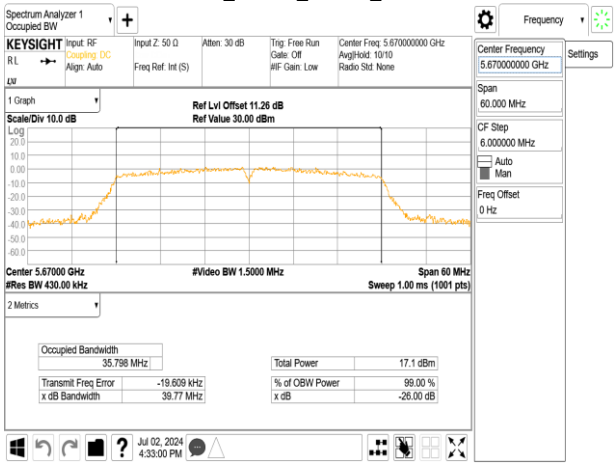
802.11n_40MHz_Chain0_5550MHz



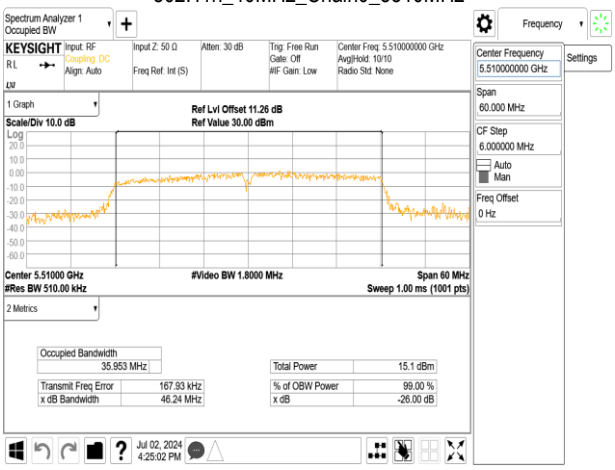
802.11n_40MHz_Chain0_5310MHz



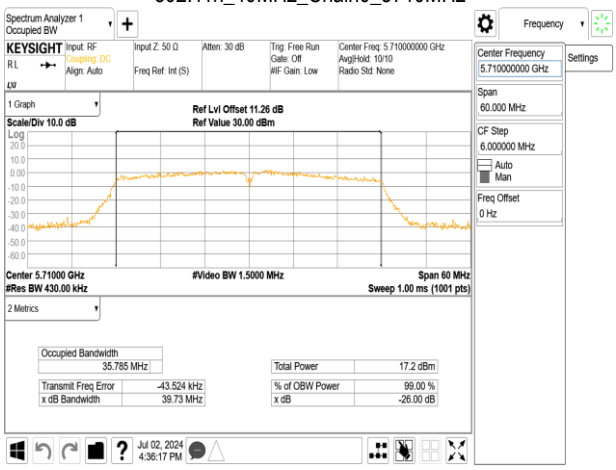
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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