

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: Qisda Corporation
NO. 157, SHAN-YING ROAD, SHAN-TING LI, GUEISHAN
DIST., TAOYUAN CITY 333, TAIWAN

ISED Applicant: Qisda Corporation
157 Shan-Ying Road, Gueishan, Taoyuan 333, Taiwan

Product Name: Bluetooth/WLAN Antenna Device

Brand Name: QISDA

Model No.: S4CWM-11WS-B255C

Model Difference: N/A

Report Number: TERF2306001372E2

FCC ID VRSS4CWM11B255

IC: 8729A-S4CWM11B255

Date of EUT Received: January 11, 2023

Date of Test: June 04,2023~July 25,2023

Issue Date: September 20, 2023

Vito Pei

Approved By _____

Vito Pei

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, ISED RSS-247.

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

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2306001372E2	00	Original.	August 18, 2023	Karen Huang	
TERF2306001372E2	01	Modify product name	September 20, 2023	Karen Huang	*

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:	Bluetooth/WLAN Antenna Device
Brand Name:	QISDA
Model No.:	S4CWM-11WS-B255C
Model Difference:	N/A
Hardware Version:	C0
Firmware Version:	P219
EUT Series No.:	N/A
Power Supply:	12Vdc
Test Software (Name/Version)	Putty/V 0.62 & Dutapimimoapapp/V 2.0.0.88

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_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Ant 1 / Ant 2	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Metal Stamping Antenna	Ant 1	5150~5250	2.27	4.59
		5250~5350	2.68	5.45
		5470~5725	2.41	6.85
		5725~5850	2.25	5.86
	Ant 2	5150~5250	0.82	4.59
		5250~5350	2.20	5.45
		5470~5725	5.07	6.85
		5725~5850	3.42	5.86

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
a/ n_HT/ ac_VHT/ ax_HE 20M	5180~5240	4	17.82 dBm	OFDM
	5260~5320	4	17.70 dBm	OFDM
	5500~5720	12	17.98 dBm	OFDM
	5745-5825	5	17.95 dBm	OFDM
n_HT/ ax_HE 40M	5190~5230	2	16.97 dBm	OFDM
	5270~5310	2	16.74 dBm	OFDM
	5510~5710	6	16.94 dBm	OFDM
	5755-5795	2	16.83 dBm	OFDM
ac_VHT/ ax_HE 80M	5210	1	14.13 dBm	OFDM
	5290	1	12.56 dBm	OFDM
	5530~5690	3	15.71 dBm	OFDM
	5775	1	15.92 dBm	OFDM

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Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
a/ n_HT/ ac_VHT/ ax_HE 20M	5180~5240	4	EIRP	14.76	dBm	OFDM
	5260~5320	4	Avg	9.08	dBm	OFDM
	5500~5700	9	Avg	17.98	dBm	OFDM
	5720 (U-NII 2C)	1	Avg	16.44	dBm	OFDM
	5720 (U-NII 3)	1	Avg	12.56	dBm	OFDM
	5745-5825	5	Avg	17.95	dBm	OFDM
n_HT ax_HE 40M	5190~5230	2	EIRP	14.66	dBm	OFDM
	5270~5310	2	Avg	9.09	dBm	OFDM
	5510~5670	4	Avg	16.94	dBm	OFDM
	5710 (U-NII 2C)	1	Avg	16.09	dBm	OFDM
	5710 (U-NII 3)	1	Avg	9.00	dBm	OFDM
	5755-5795	2	Avg	16.83	dBm	OFDM
ac_VHT/ ax_HE 80M	5210	1	EIRP	14.70	dBm	OFDM
	5290	1	Avg	9.17	dBm	OFDM
	5530~5610	2	Avg	15.71	dBm	OFDM
	5690 (U-NII 2C)	1	Avg	15.23	dBm	OFDM
	5690 (U-NII 3)	1	Avg	6.22	dBm	OFDM
	5775	1	Avg	15.92	dBm	OFDM

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1.6 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
 RSS-247 issue 2 Feb. 2017
 RSS-Gen,issue 5 April, 2018
 ANSI C63.10:2013

1.7 Test Facility

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

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

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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.

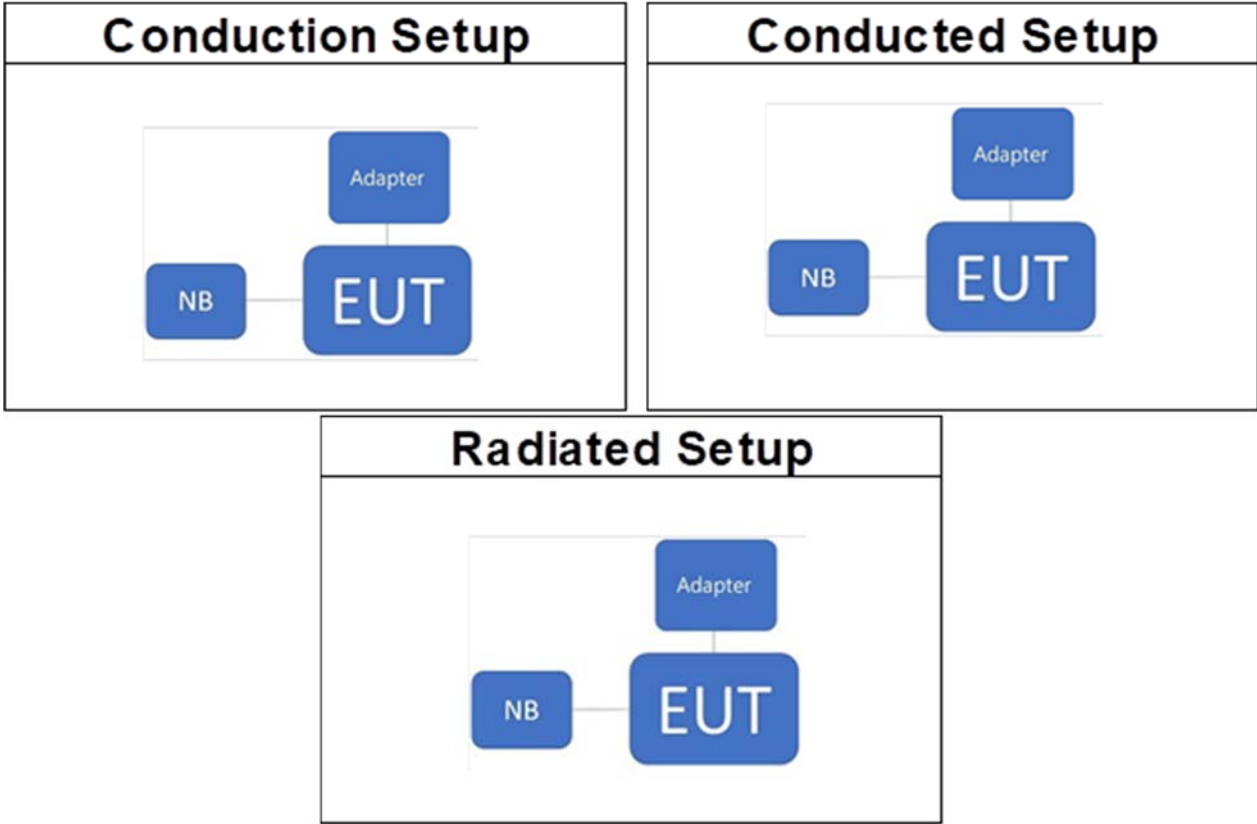
2.4.2 For all conducted test items:

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.

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2.5 Test Configuration



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.
Notebook	Lenovo	L480	P0002332	N/A	N/A

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

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

Operated band in 5250 MHz ~5350 MHz:

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

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
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				

Operated band in 5725 MHz ~5850 MHz:

20 M		40 M		80 M	
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				

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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	TESTED	MODULATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL		(Mbps)	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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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	RU CONFIGURATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL			(Mbps)	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				
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				
802.11ax_HE80	5210	42	42	OFDMA	MCS0	2TX	
	5290	58	58				
	5530~5690	106 to 138	106				
	5775	155	155				
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	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

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

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK	NSLK8127	973	04/20/2023	04/19/2024
EMI Test Receiver	R&S	ESCI	101342	04/25/2023	04/24/2024
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024
Test Software	audix	e3	E3 20923 SGS Ver.9	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2022	07/06/2023
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/23/2023	05/22/2024
Power Meter	Anritsu	ML2496A	1804002	04/26/2023	04/25/2024
Power Sensor	Anritsu	MA2411B	1726105	04/26/2023	04/25/2024
Power Sensor	Anritsu	MA2411B	1726106	04/26/2023	04/25/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF06	11/16/2022	11/15/2023
Attenuator	Marvelous	MVE2213-10	RF12	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF18	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF153	11/16/2022	11/15/2023

6.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/17/2023	01/16/2024
Horn Antenna	Schwarzbeck	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024
Loop Antenna	ETS.LINDGREN	6502	14303	05/23/2023	05/22/2024
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/11/2023	04/10/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216、210217、210218	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、210220、210221	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224、210306	03/15/2023	03/14/2024

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 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

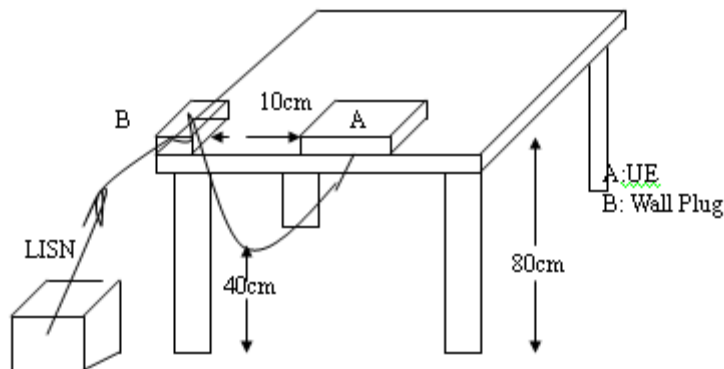
Note

- 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.

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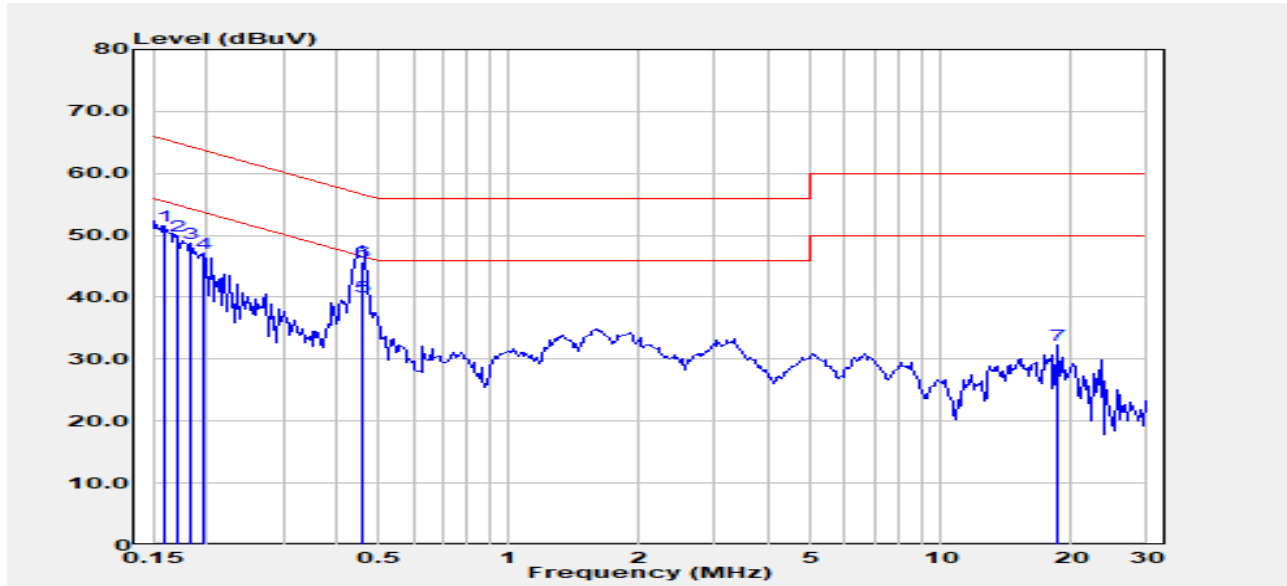
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2306001372E2	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2023-07-20
Power	:120V/60Hz	Temp./Humi.	:23.8/55
Probe	:L1	Engineer	:Temo Chen



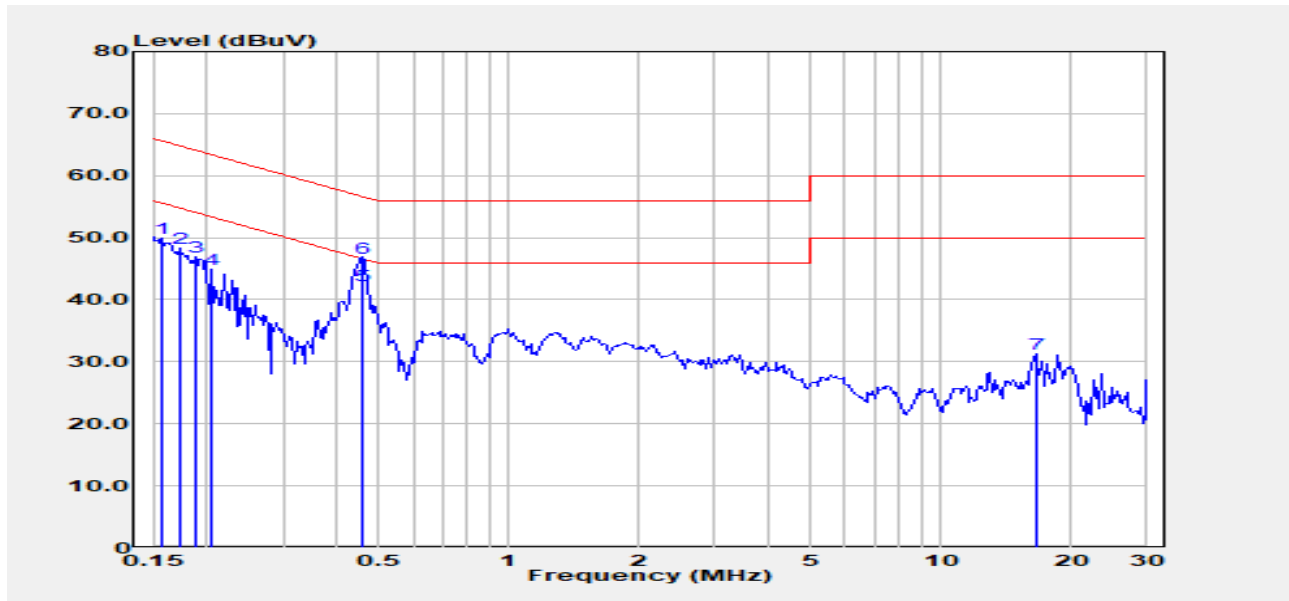
Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.160	Peak	40.72	10.69	51.41	65.47	-14.06
0.170	Peak	39.30	10.69	49.99	64.94	-14.96
0.183	Peak	37.95	10.68	48.63	64.33	-15.70
0.198	Peak	36.45	10.68	47.13	63.71	-16.58
0.456	Average	29.40	10.64	40.04	46.76	-6.72
0.456	QP	35.00	10.64	45.64	56.76	-11.12
18.622	Peak	21.16	11.13	32.29	60.00	-27.71

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Report Number	:TERF2306001372E2	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2023-07-20
Power	:120V/60Hz	Temp./Humi.	:23.8/55
Probe	:N	Engineer	:Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.158	Peak	39.31	10.67	49.98	65.56	-15.58
0.172	Peak	37.69	10.67	48.36	64.86	-16.50
0.187	Peak	36.21	10.67	46.88	64.15	-17.27
0.204	Peak	34.22	10.67	44.89	63.45	-18.56
0.456	Average	31.60	10.62	42.22	46.76	-4.54
0.456	QP	36.10	10.62	46.72	56.76	-10.04
16.573	Peak	20.19	11.18	31.37	60.00	-28.63

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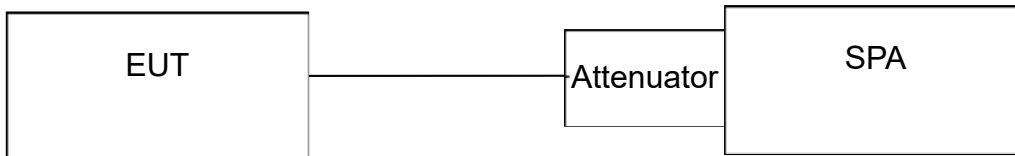
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8 EMISSION BANDWIDTH MEASUREMENT

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	19.45	12.890
5220	19.34	12.860
5240	19.30	12.860
5260	19.42	12.880
5300	19.22	12.840
5320	19.40	12.880
5500	19.34	12.860
5580	19.40	12.880
5700	29.93	14.760
5720(U-NII 2C)	19.98	13.000
5720(U-NII 3)	9.98	9.990

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.55	12.190
5785	16.39	12.150
5825	16.36	12.140

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.257330	< 5250
5745	5736.702221	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.56	12.910
5220	19.37	12.870
5240	19.99	13.010
5260	19.61	12.920
5300	19.19	12.830
5320	19.46	12.890
5500	19.27	12.850
5580	19.40	12.880
5700	19.53	12.910
5720(U-NII 2C)	14.68	11.670
5720(U-NII 3)	4.68	6.700

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.57	12.190
5785	16.39	12.150
5825	16.52	12.180

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.236870	< 5250
5745	5736.706704	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.83	12.970
5220	19.68	12.940
5240	20.08	13.030
5260	19.97	13.000
5300	20.25	13.060
5320	20.16	13.040
5500	20.08	13.030
5580	19.70	12.940
5700	19.82	12.970
5720(U-NII 2C)	19.99	13.010
5720(U-NII 3)	9.99	10.000

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.94	12.290
5785	17.14	12.340
5825	16.97	12.300

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.758273	< 5250
5745	5736.146371	> 5725

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802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.85	12.980
5220	19.81	12.970
5240	19.63	12.930
5260	19.71	12.950
5300	19.86	12.980
5320	19.78	12.960
5500	19.85	12.980
5580	19.69	12.940
5700	19.79	12.960
5720(U-NII 2C)	14.92	11.740
5720(U-NII 3)	4.92	6.920

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.65	12.470
5785	17.55	12.440
5825	17.63	12.460

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.763283	< 5250
5745	5736.154787	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.13	16.030
5230	39.87	16.010
5270	40.31	16.050
5310	47.15	16.730
5510	40.04	16.020
5550	39.77	16.000
5670	50.00	16.990
5710(U-NII 2C)	40.00	16.020
5710(U-NII 3)	10.00	10.000

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.10	15.580
5795	35.81	15.540

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.011896	< 5250
5755	5736.921197	> 5725

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802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.81	16.000
5230	39.96	16.020
5270	40.04	16.020
5310	39.58	15.970
5510	39.70	15.990
5550	39.57	15.970
5670	39.81	16.000
5710(U-NII 2C)	34.86	15.420
5710(U-NII 3)	4.86	6.870

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.94	15.560
5795	36.34	15.600

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.985482	< 5250
5755	5736.968653	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.54	19.110
5290	91.73	19.630
5530	81.40	19.110
5610	81.24	19.100
5690(U-NII 2C)	85.00	19.290
5690(U-NII 3)	15.00	11.760

802.11ac_VHT80_Ch0

Freq. (MHz)	39.90	10 Log (B) (dB)
5775	76.41	18.830

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.013550	< 5250
5775	5737.059070	> 5725

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802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.44	19.110
5290	81.17	19.090
5530	81.45	19.110
5610	80.94	19.080
5690(U-NII 2C)	75.65	18.790
5690(U-NII 3)	5.65	7.520

802.11ac_VHT80_Ch1

Freq. (MHz)	40.33	10 Log (B) (dB)
5775	76.20	18.820

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.938803	< 5250
5775	5737.033199	> 5725

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802.11ax_HE20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	20.33	13.080
5220	full	20.18	13.050
5240	full	20.17	13.050
5260	full	20.08	13.030
5300	full	20.59	13.140
5320	full	20.22	13.060
5500	full	20.31	13.080
5580	full	20.28	13.070
5700	full	27.84	14.450
5720 (U-NII 2C)	full	19.02	12.790
5720 (U-NII 3)	full	9.02	9.550

802.11ax_HE20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.03	12.560
5785	full	18.12	12.580
5825	full	18.01	12.560

802.11ax_HE20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.360289	< 5250
5745	5735.586294	> 5725

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802.11ax_HE20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	20.31	13.080
5220	full	20.19	13.050
5240	full	20.08	13.030
5260	full	20.49	13.120
5300	full	20.15	13.040
5320	full	20.04	13.020
5500	full	20.10	13.030
5580	full	20.10	13.030
5700	full	20.28	13.070
5720 (U-NII 2C)	full	15.05	11.770
5720 (U-NII 3)	full	5.05	7.030

802.11ax_HE20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.29	12.620
5785	full	18.15	12.590
5825	full	18.10	12.580

802.11ax_HE20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.303920	< 5250
5745	5735.597908	> 5725

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802.11ax_HE40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.93	16.010
5230	full	39.90	16.010
5270	full	39.90	16.010
5310	full	43.51	16.390
5510	full	40.10	16.030
5550	full	40.03	16.020
5670	full	45.38	16.570
5710 (U-NII 2C)	full	39.00	15.910
5710 (U-NII 3)	full	9.00	9.540

802.11ax_HE40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.97	15.790
5795	full	36.20	15.590

802.11ax_HE40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.685620	< 5250
5755	5736.168080	> 5725

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802.11ax_HE40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.70	15.990
5230	full	40.33	16.060
5270	full	40.02	16.020
5310	full	39.83	16.000
5510	full	39.96	16.020
5550	full	39.84	16.000
5670	full	40.17	16.040
5710 (U-NII 2C)	full	35.10	15.450
5710 (U-NII 3)	full	5.10	7.070

802.11ax_HE40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	37.21	15.710
5795	full	36.32	15.600

802.11ax_HE40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.705473	< 5250
5755	5736.199191	> 5725

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802.11ax_HE80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	79.96	19.030
5290	full	80.38	19.050
5530	full	80.54	19.060
5610	full	80.36	19.050
5690 (U-NII 2C)	full	75.95	18.810
5690 (U-NII 3)	full	5.95	7.750

802.11ax_HE80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	77.42	18.890

802.11ax_HE80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.709116	< 5250
5775	5736.205109	> 5725

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802.11ax_HE80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.21	19.040
5290	full	80.34	19.050
5530	full	80.34	19.050
5610	full	80.50	19.060
5690 (U-NII 2C)	full	75.15	18.760
5690 (U-NII 3)	full	5.15	7.120

802.11ax_HE80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	77.53	18.890

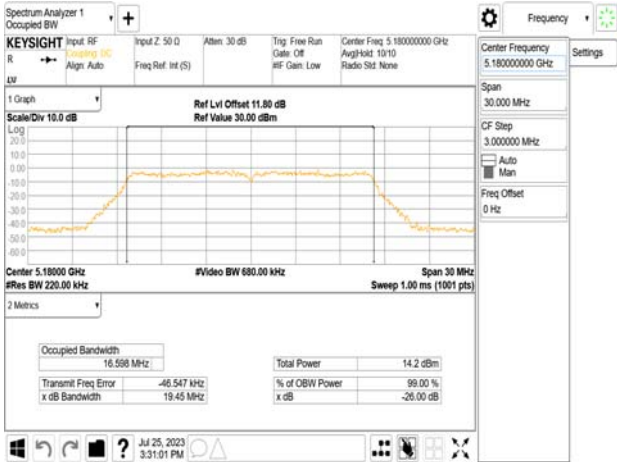
802.11ax_HE80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.714163	< 5250
5775	5736.301036	> 5725

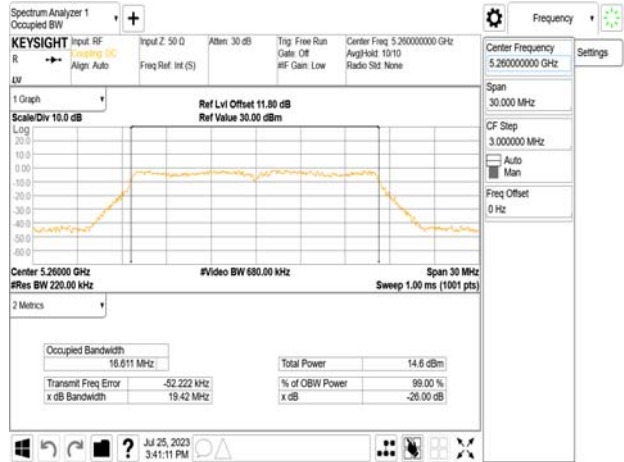
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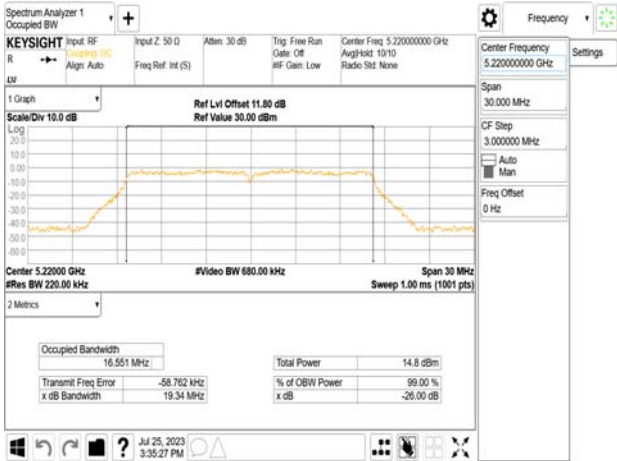
802.11a_20MHz_Chain0_5180MHz



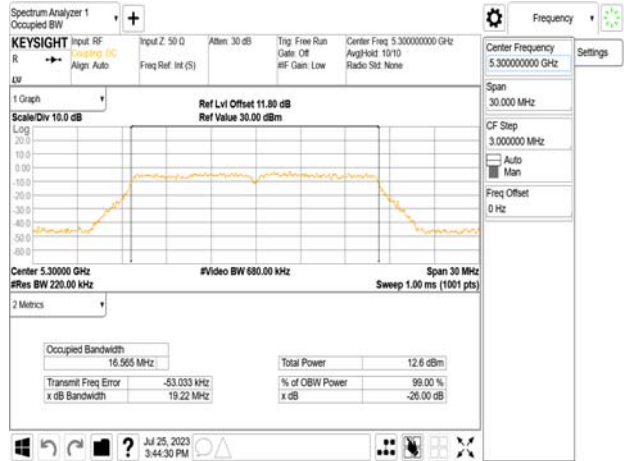
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802.11a_20MHz_Chain0_5220MHz



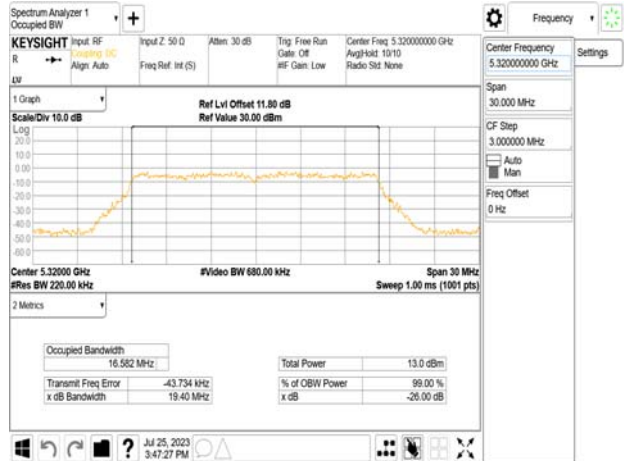
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

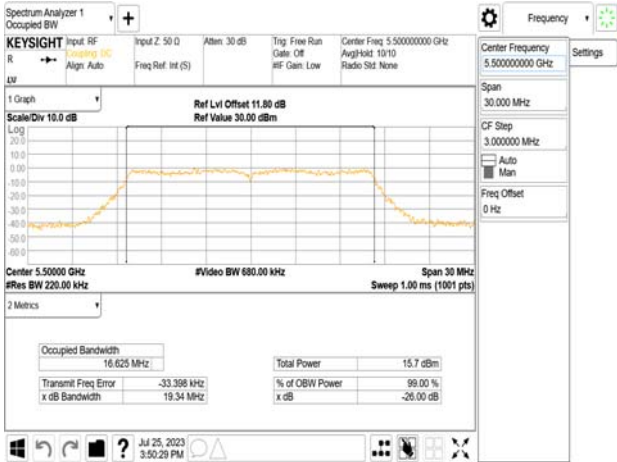


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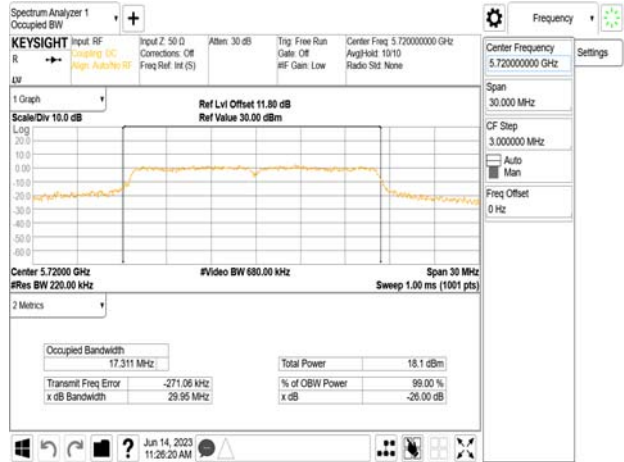
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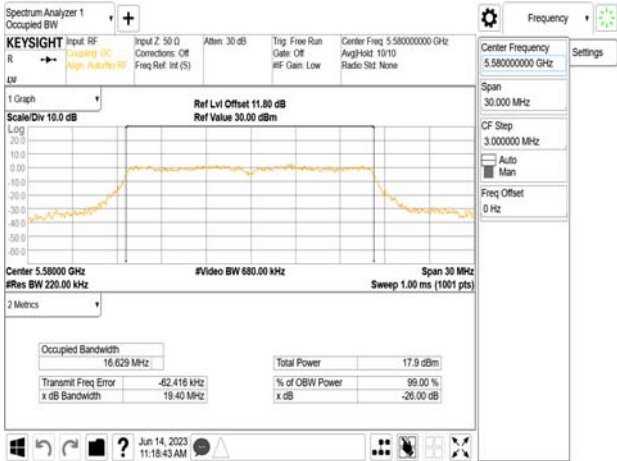
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



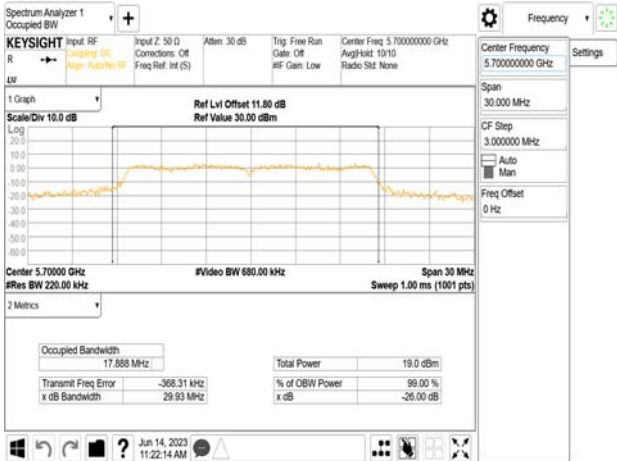
802.11a_20MHz_Chain0_5580MHz



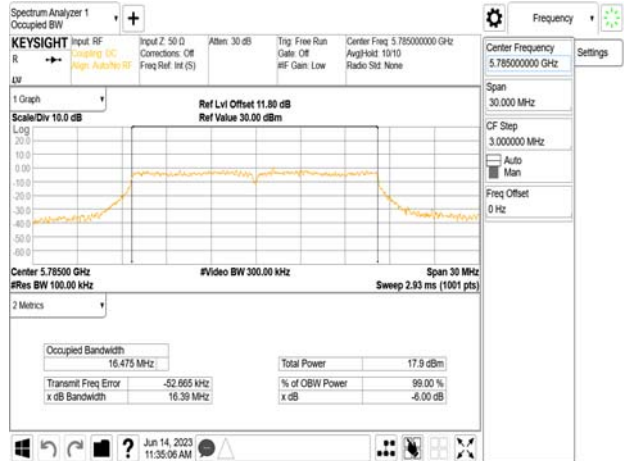
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

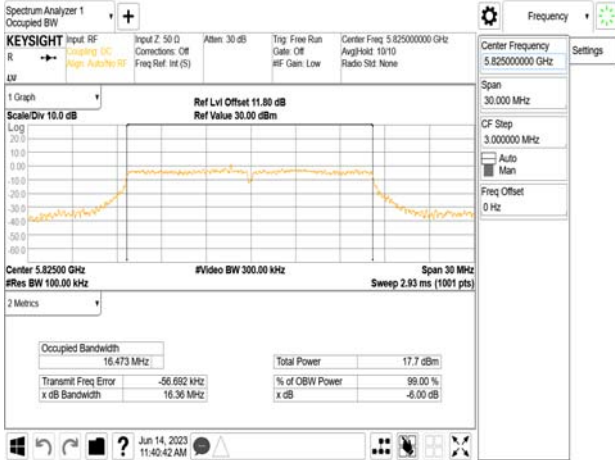


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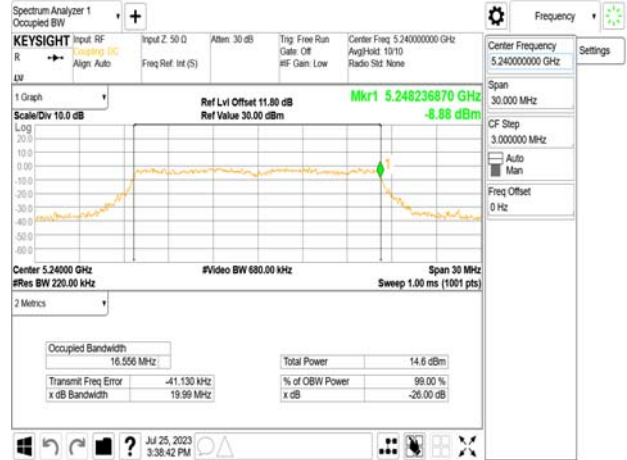
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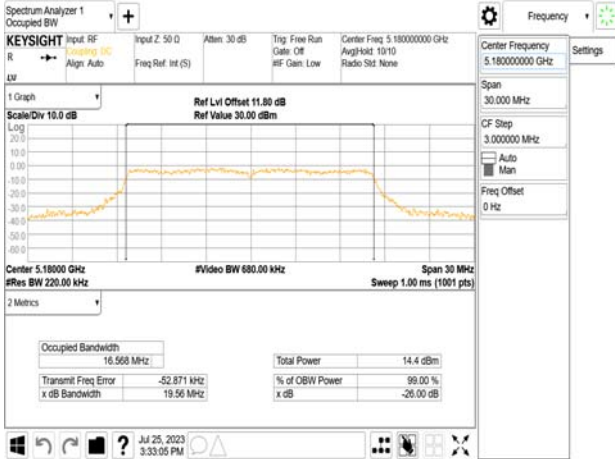
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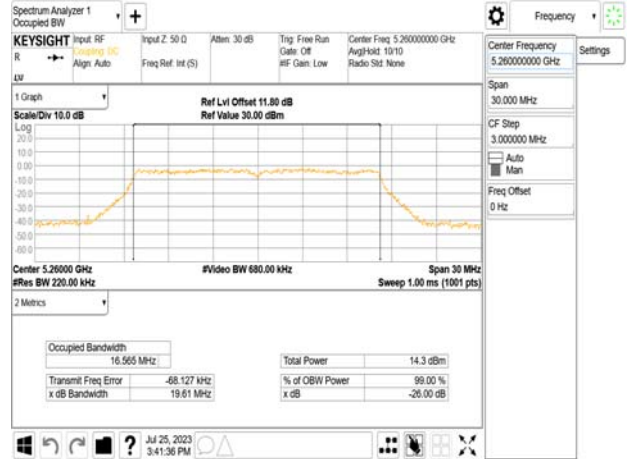
802.11a_20MHz_Chain1_5240MHz



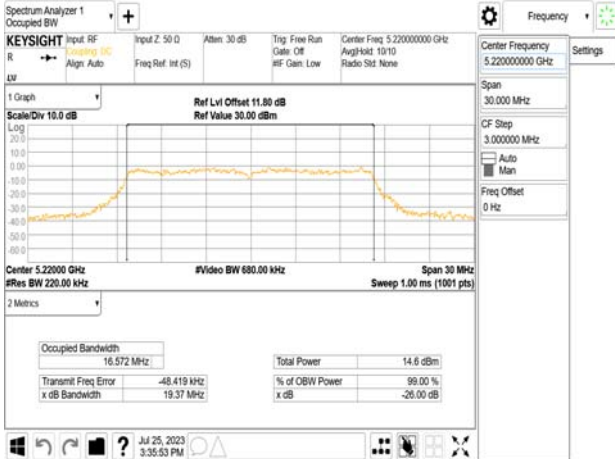
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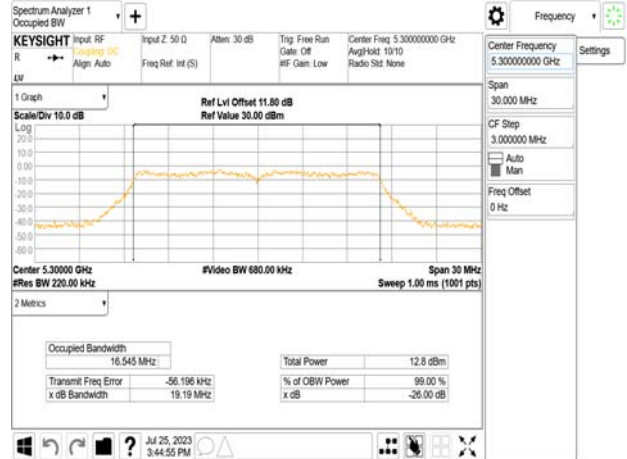
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802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz

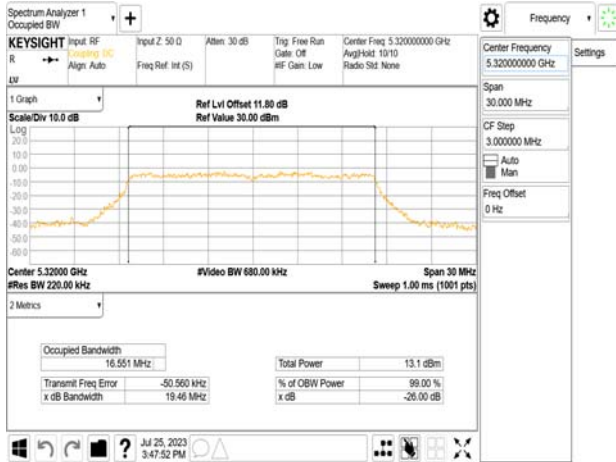


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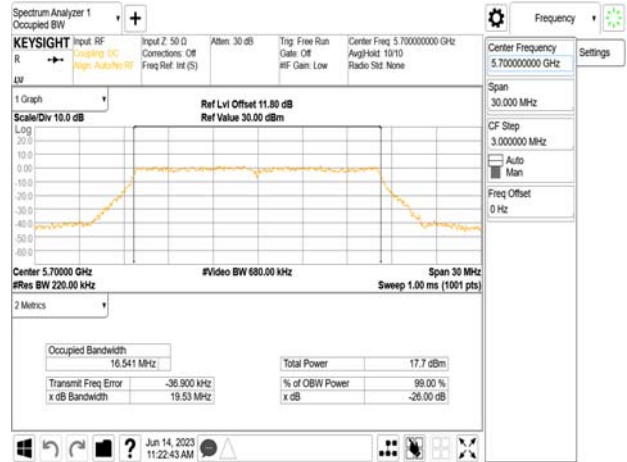
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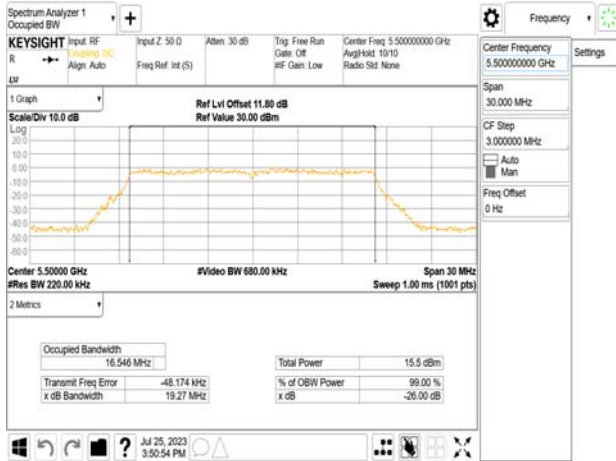
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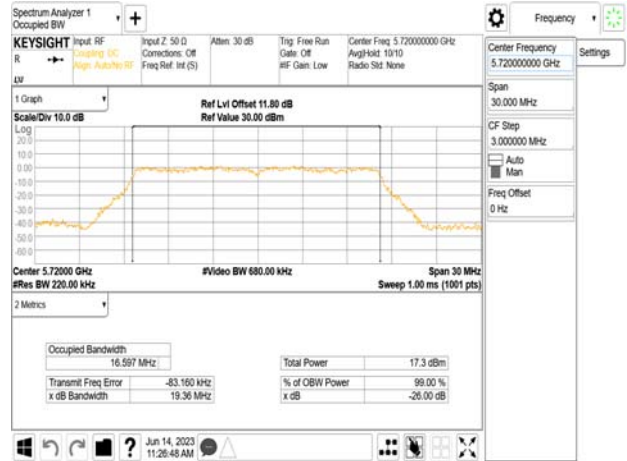
802.11a_20MHz_Chain1_5700MHz



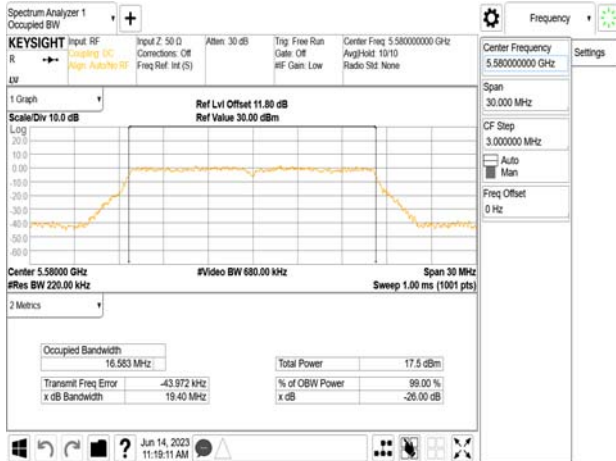
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

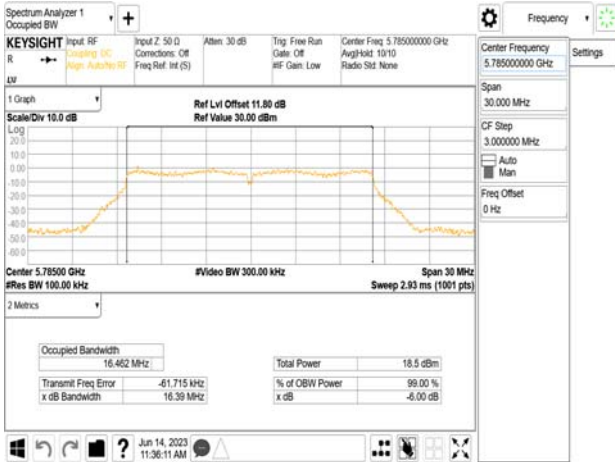


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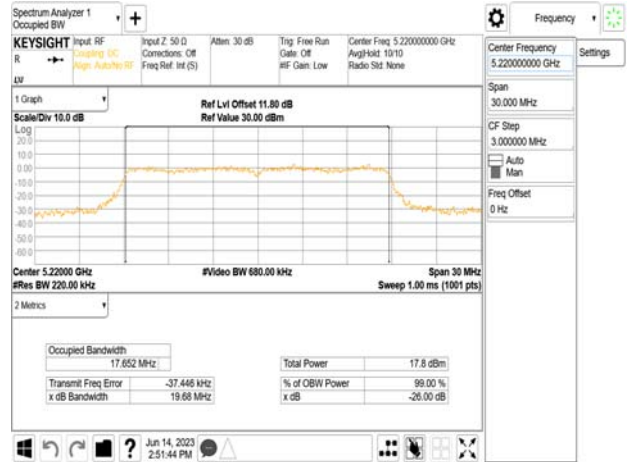
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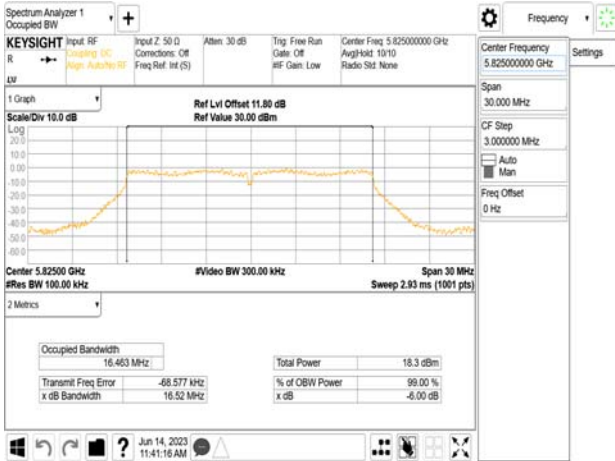
802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz



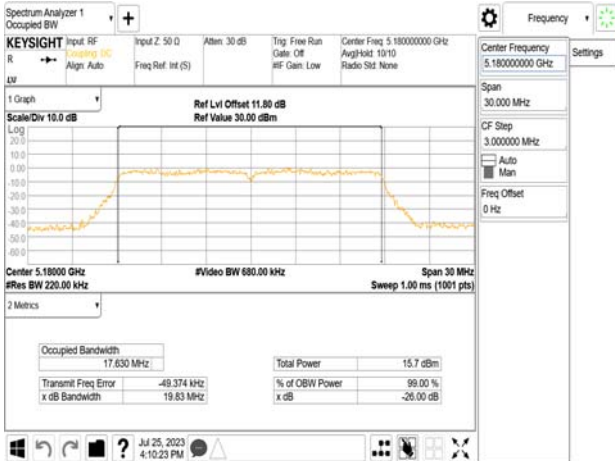
802.11a_20MHz_Chain1_5825MHz



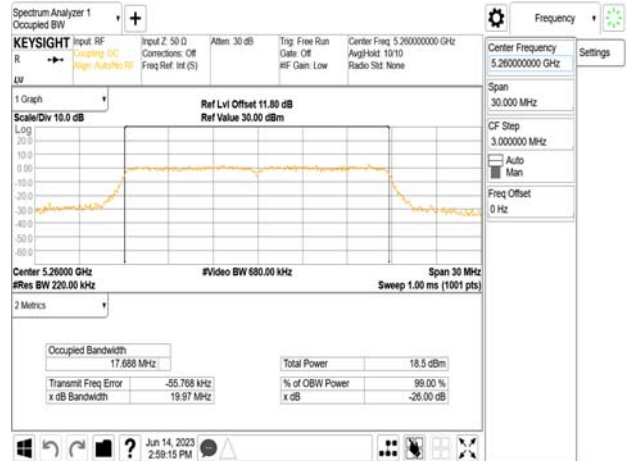
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802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz

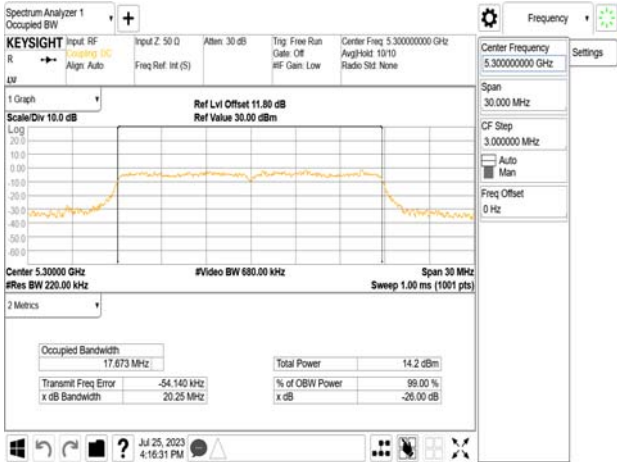


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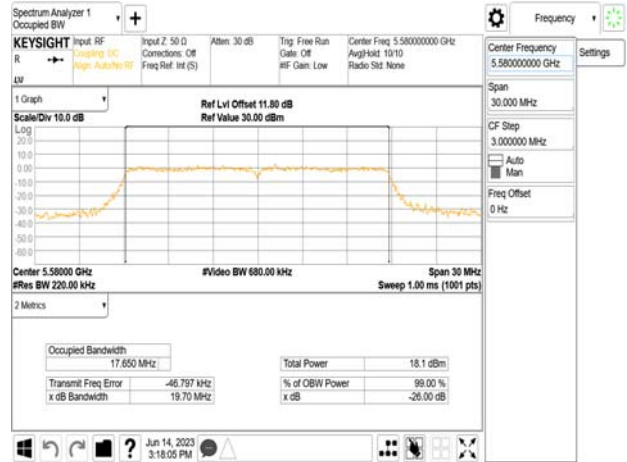
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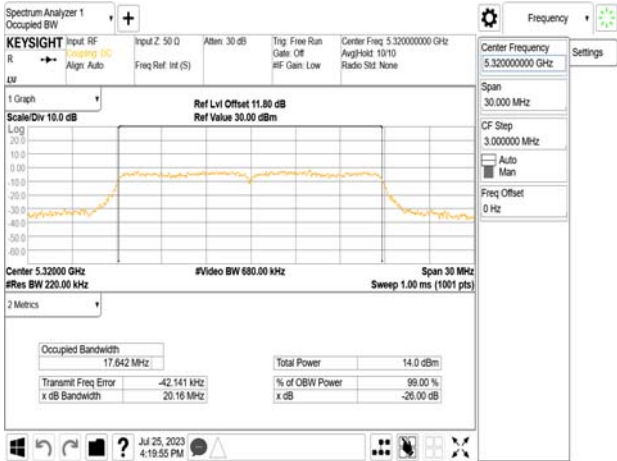
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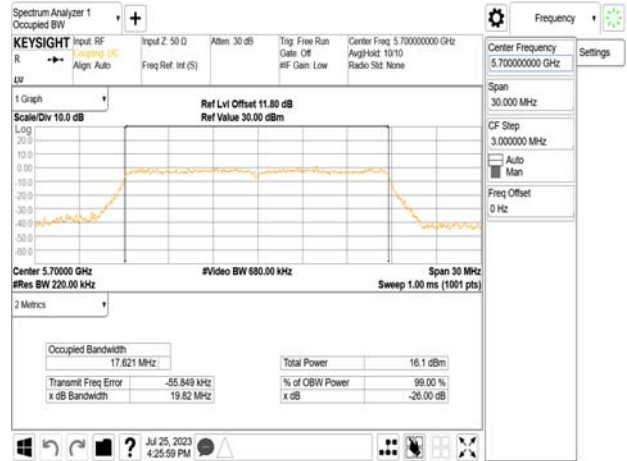
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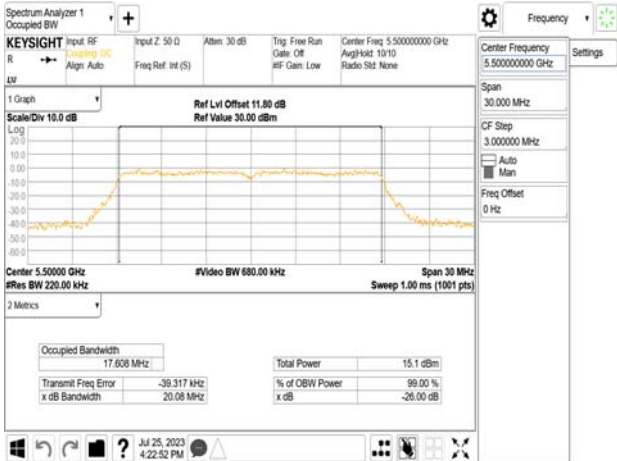
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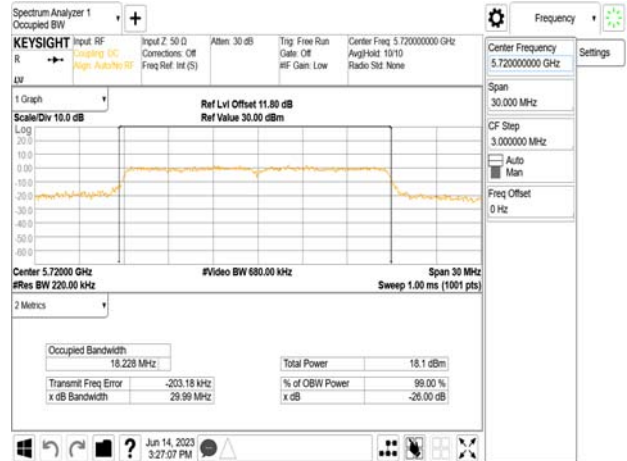
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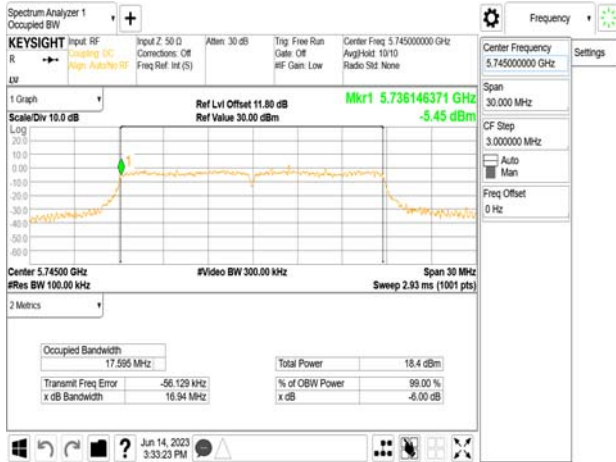


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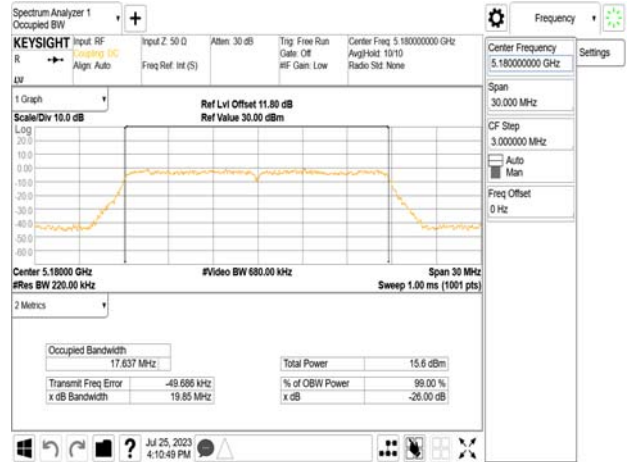
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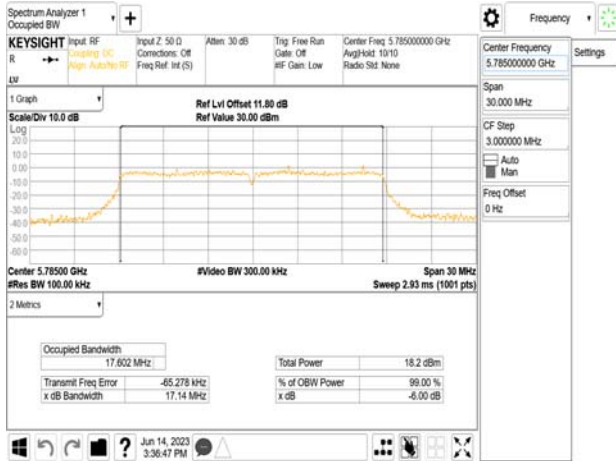
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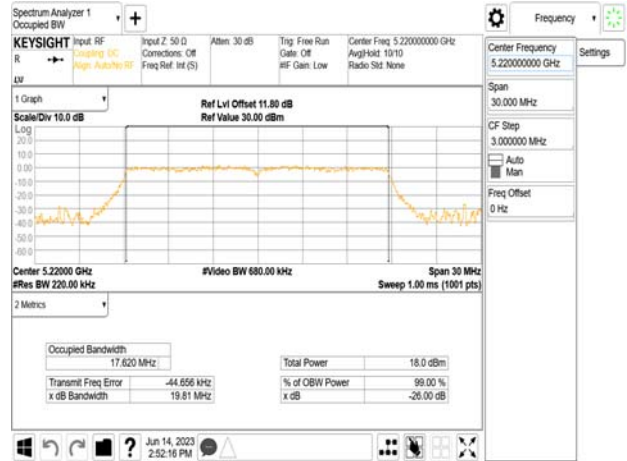
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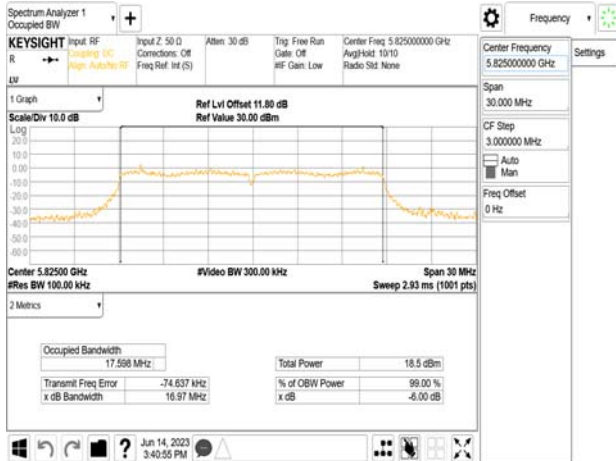
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

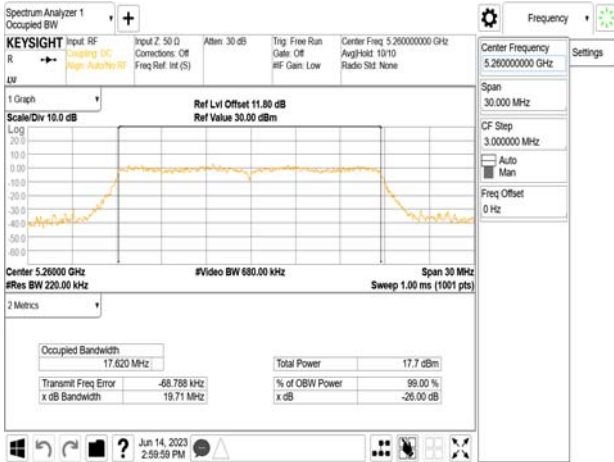


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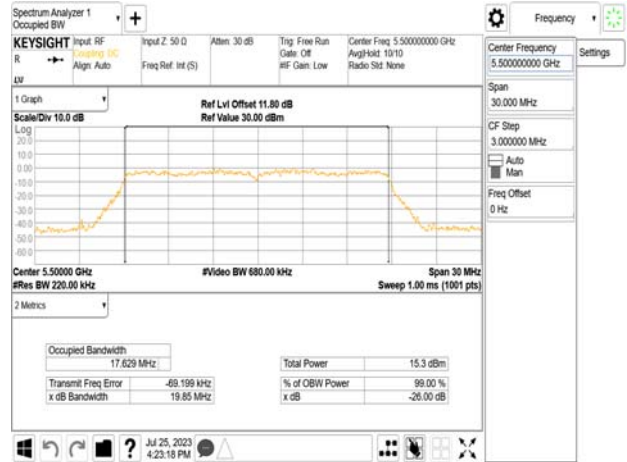
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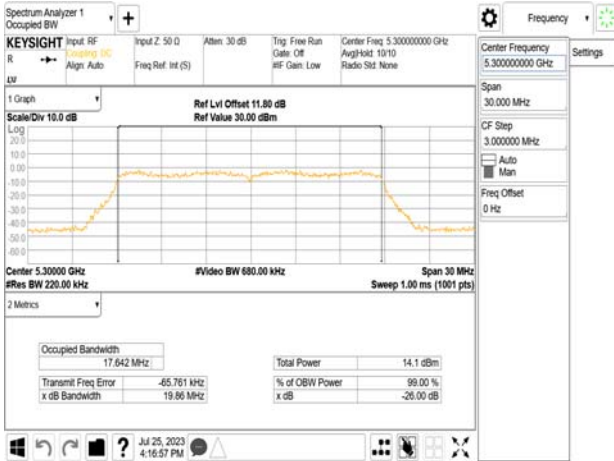
802.11n_20MHz_Chain1_5260MHz



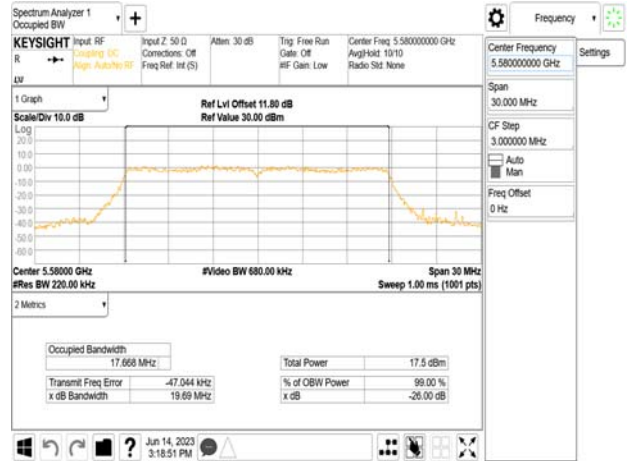
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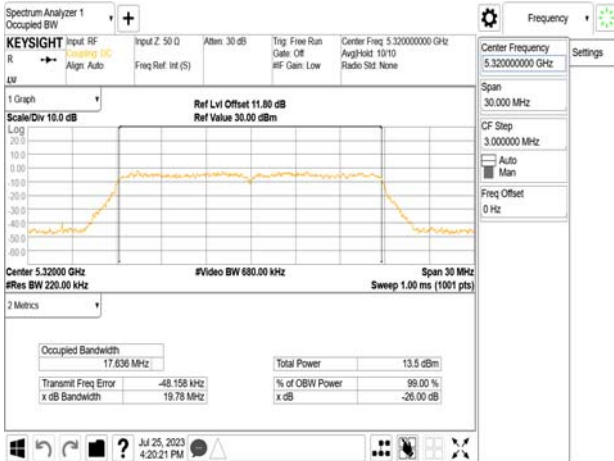
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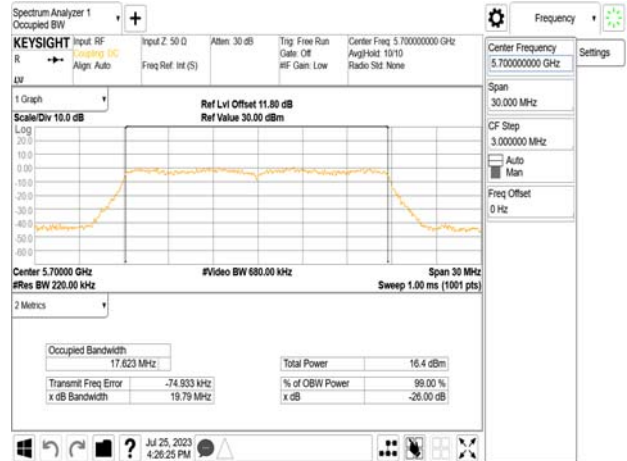
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz

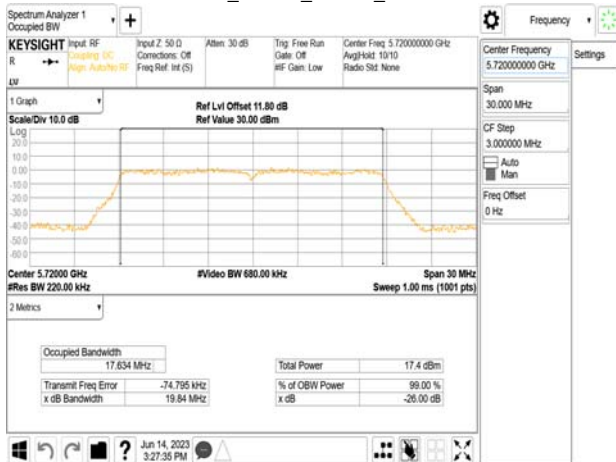


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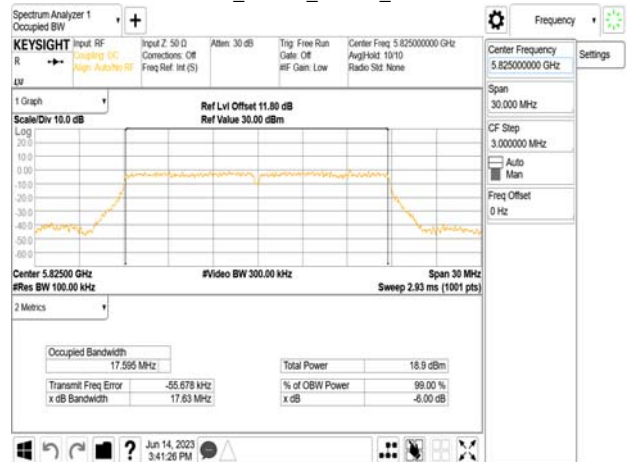
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802.11n_20MHz_Chain1_5720MHz



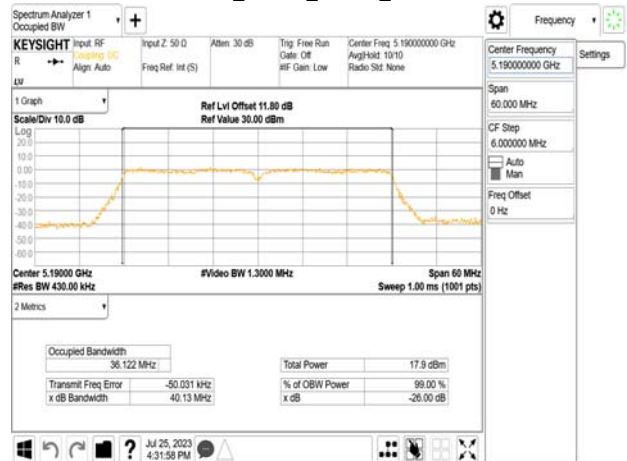
802.11n_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz

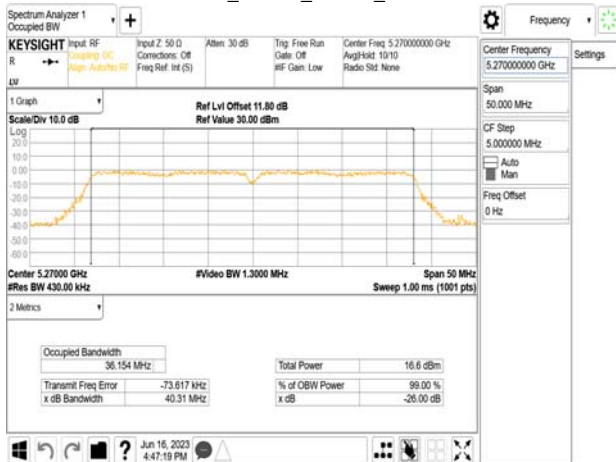


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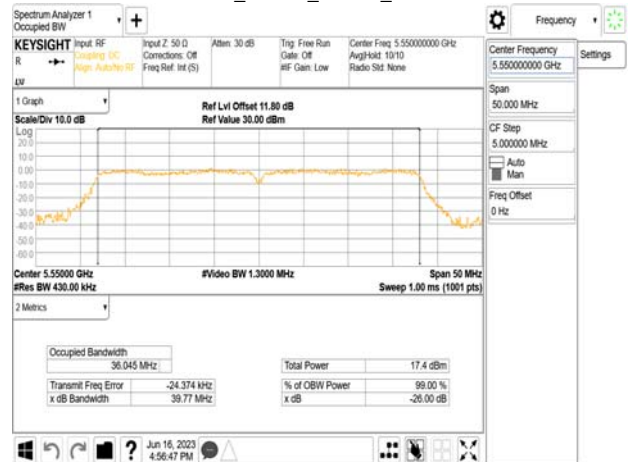
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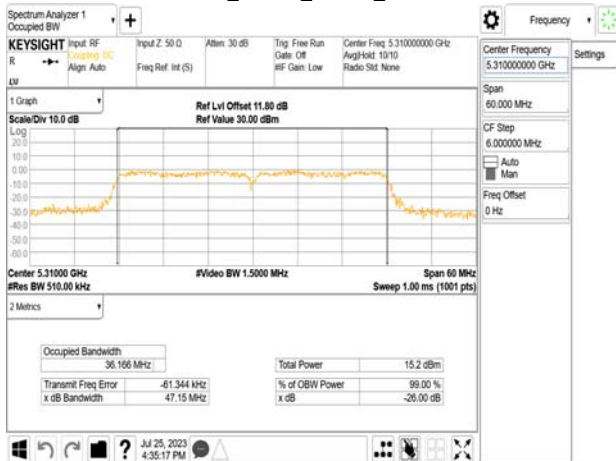
802.11n_40MHz_Chain0_5270MHz



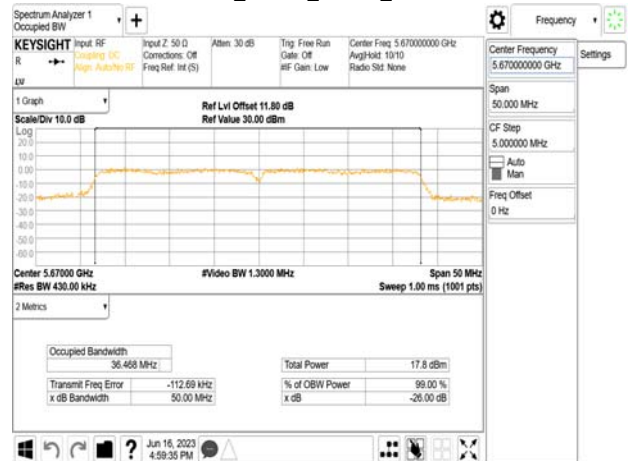
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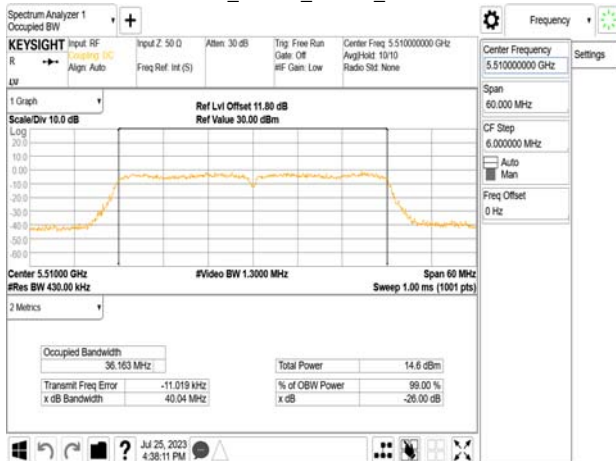
802.11n_40MHz_Chain0_5310MHz



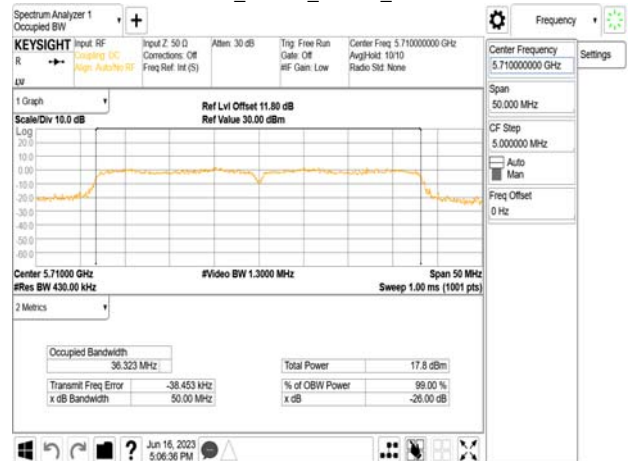
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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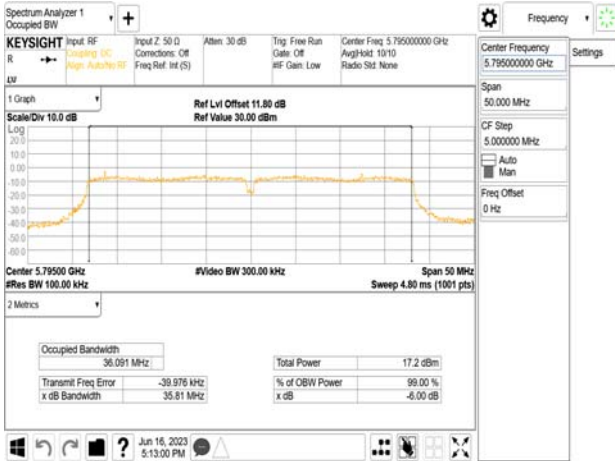
802.11n_40MHz_Chain0_5755MHz



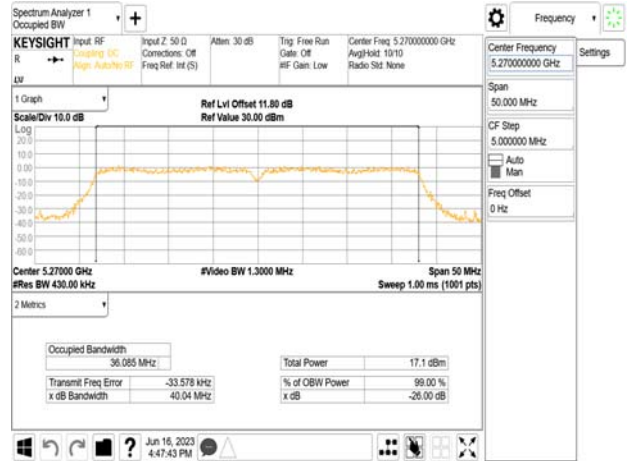
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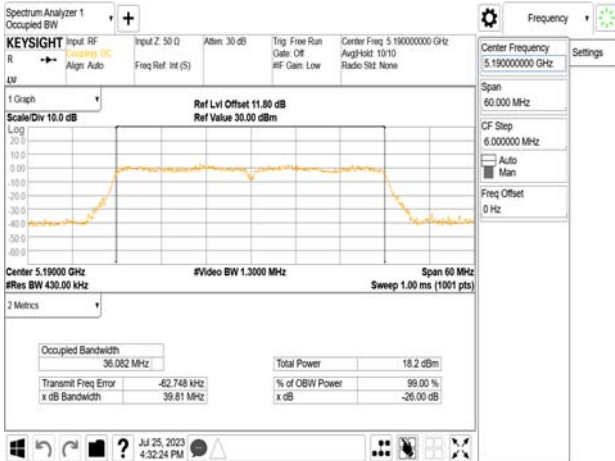
802.11n_40MHz_Chain0_5795MHz



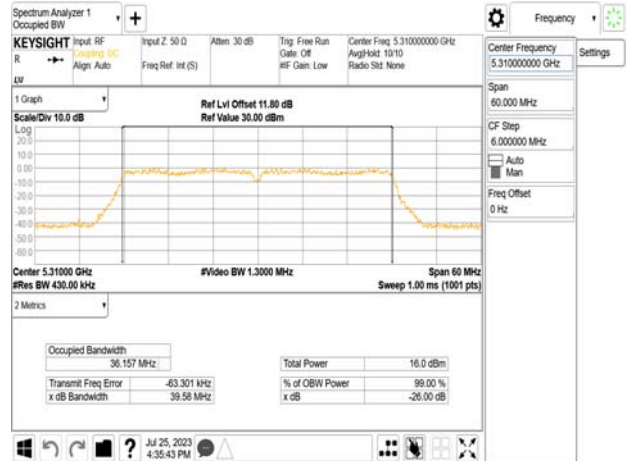
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz

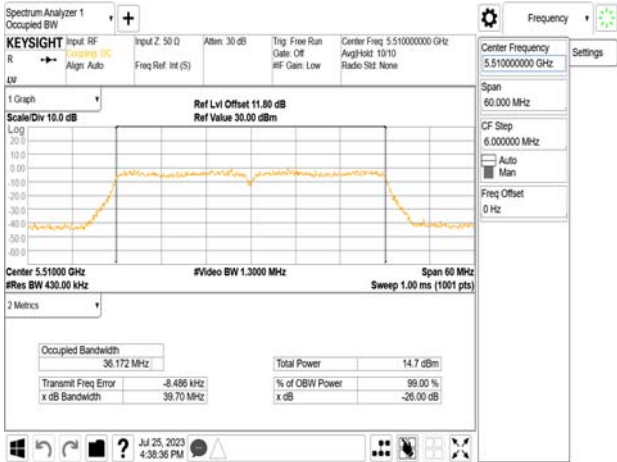


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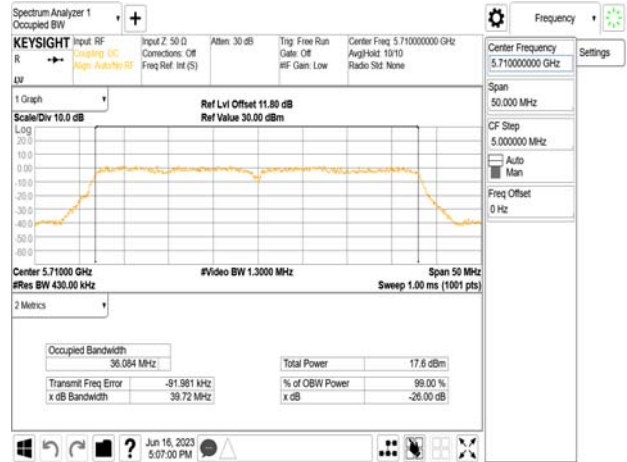
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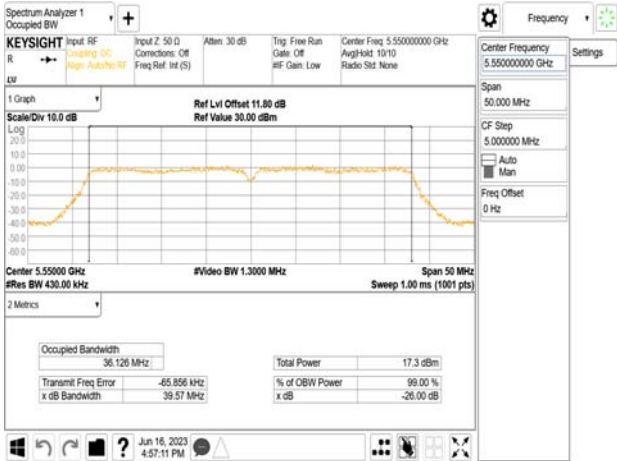
802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



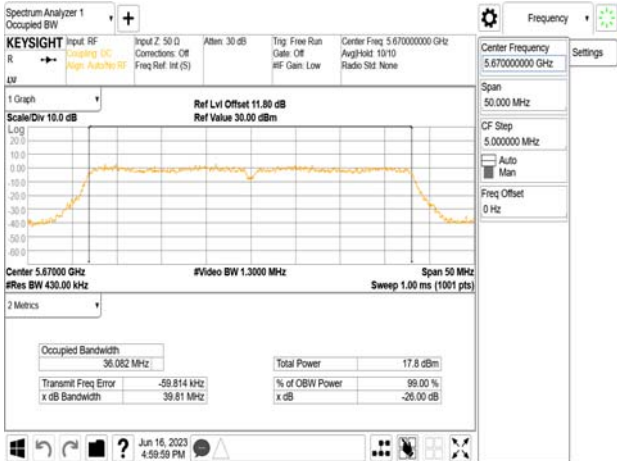
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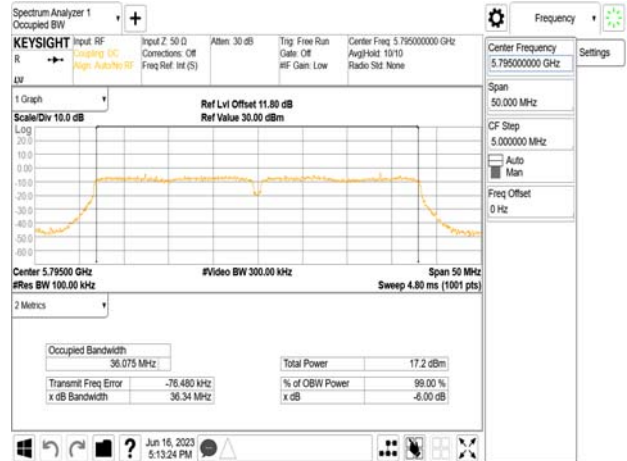
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



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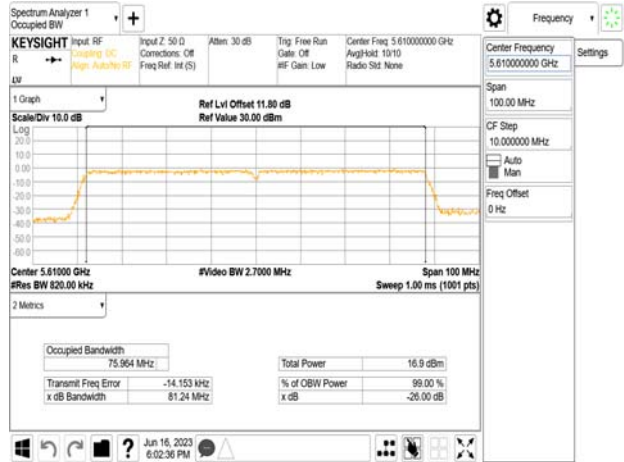
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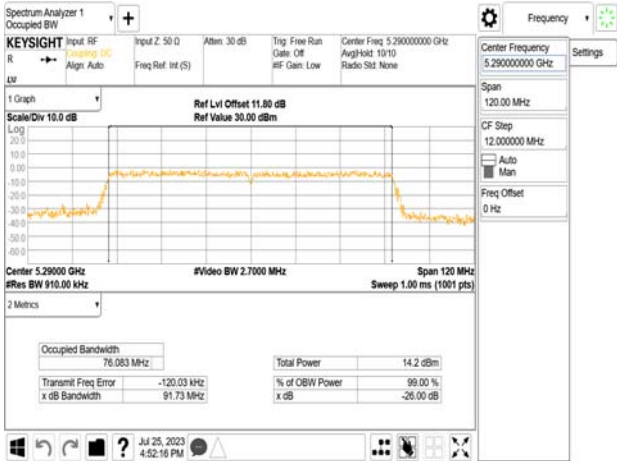
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



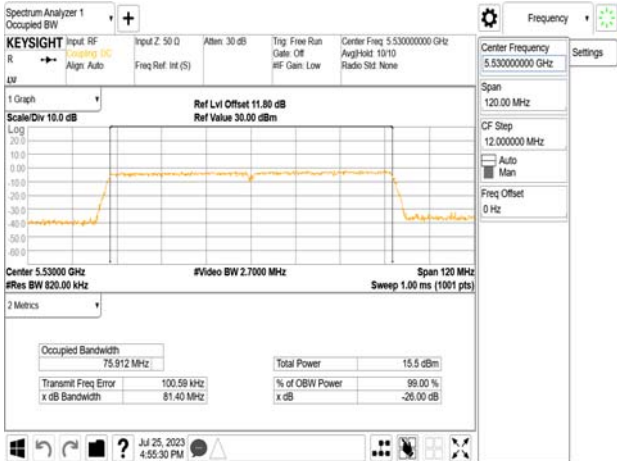
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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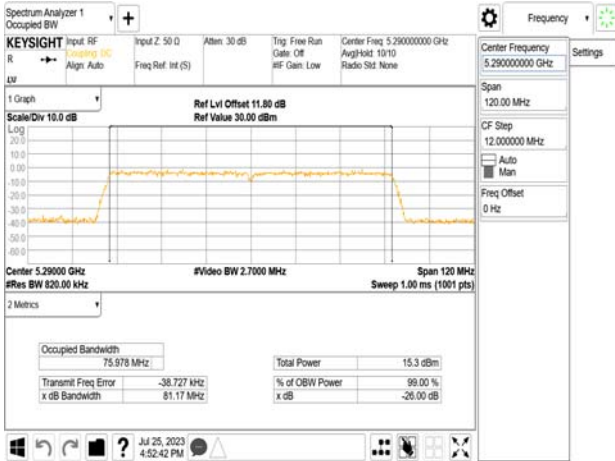
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802.11ac_80MHz_Chain1_5610MHz



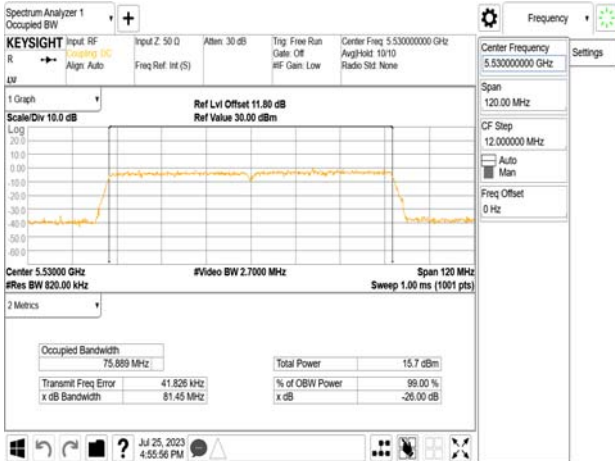
802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



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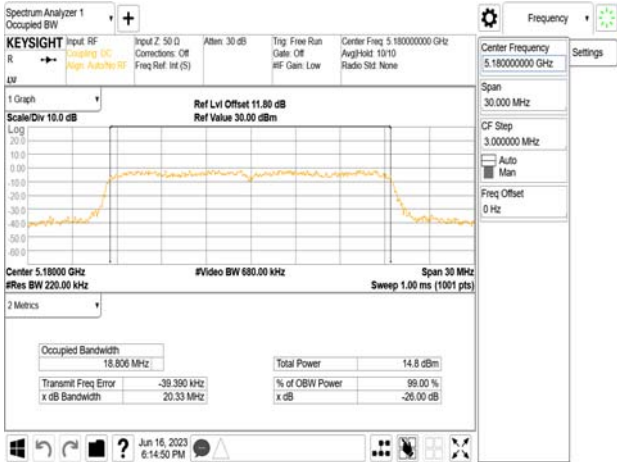


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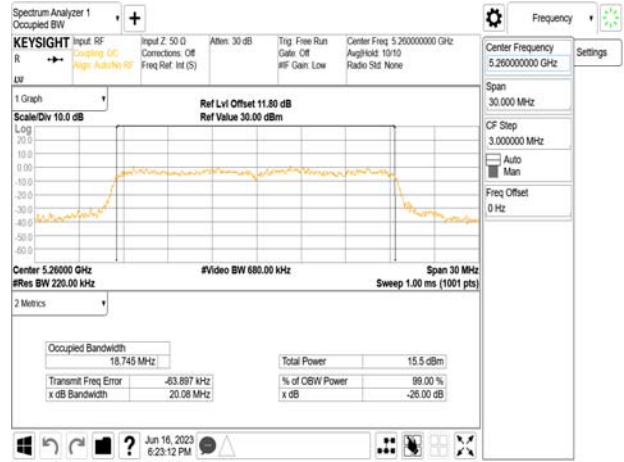
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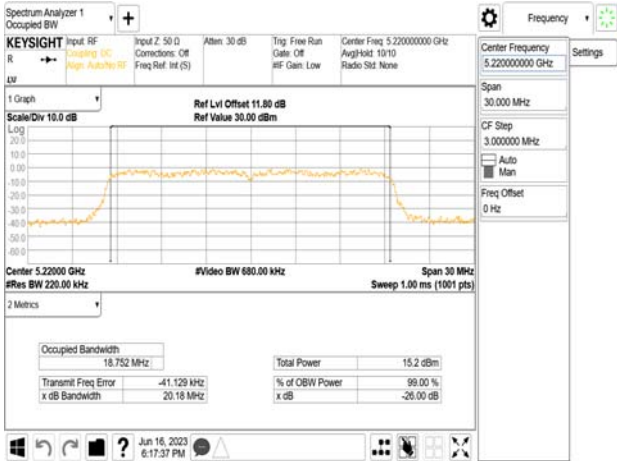
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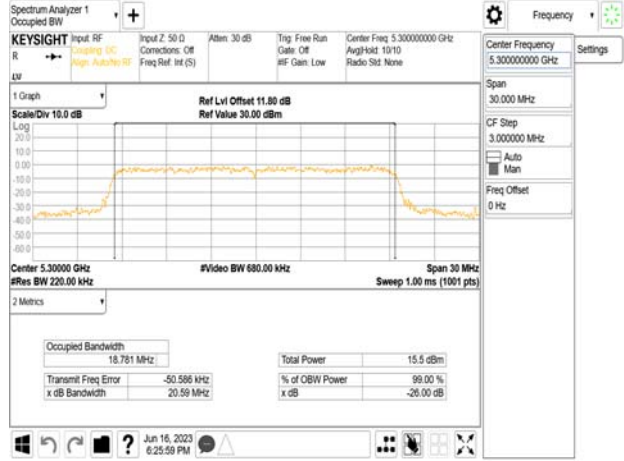
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802.11ax_20MHz_Chain0_5220MHz



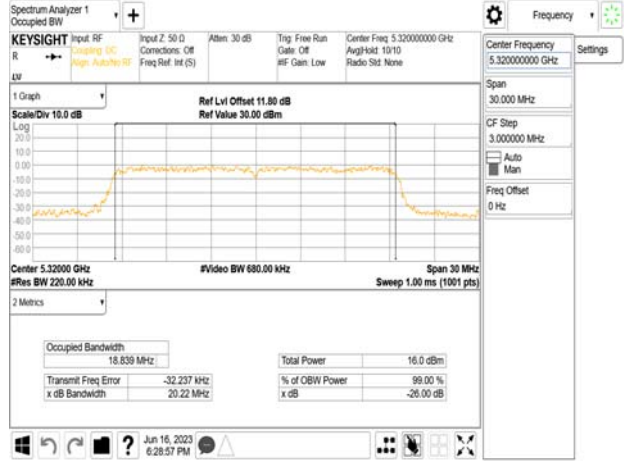
802.11ax_20MHz_Chain0_5300MHz



802.11ax_20MHz_Chain0_5240MHz



802.11ax_20MHz_Chain0_5320MHz

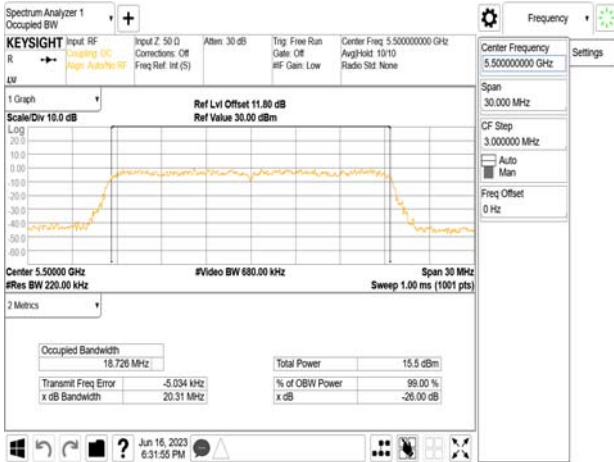


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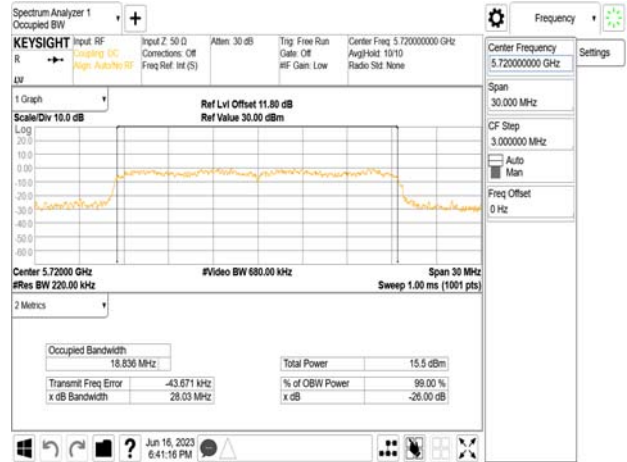
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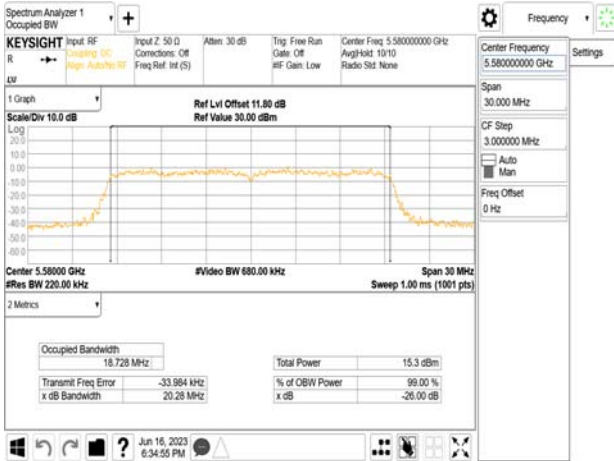
802.11ax_20MHz_Chain0_5500MHz



802.11ax_20MHz_Chain0_5720MHz



802.11ax_20MHz_Chain0_5580MHz



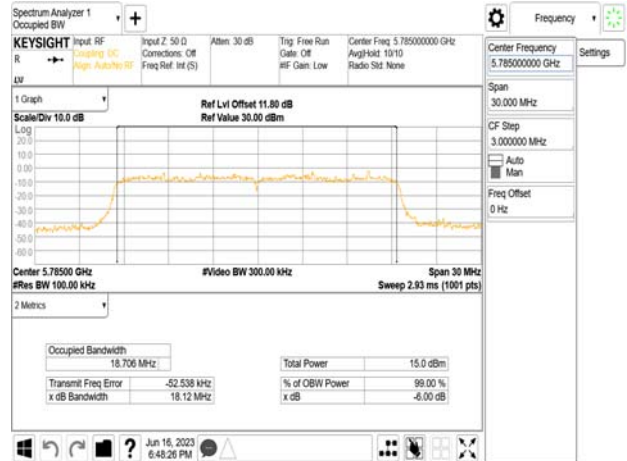
802.11ax_20MHz_Chain0_5745MHz



802.11ax_20MHz_Chain0_5700MHz



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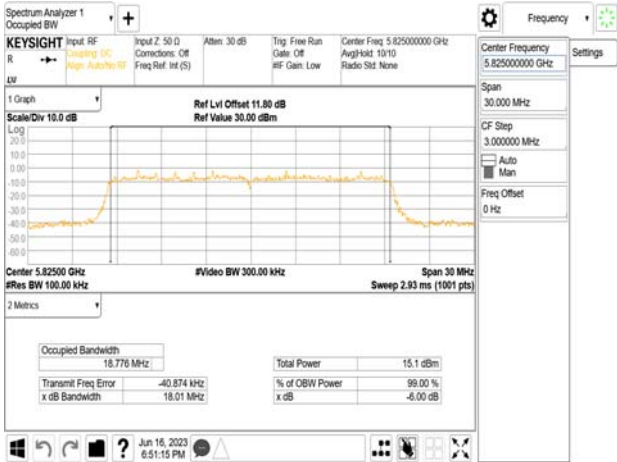


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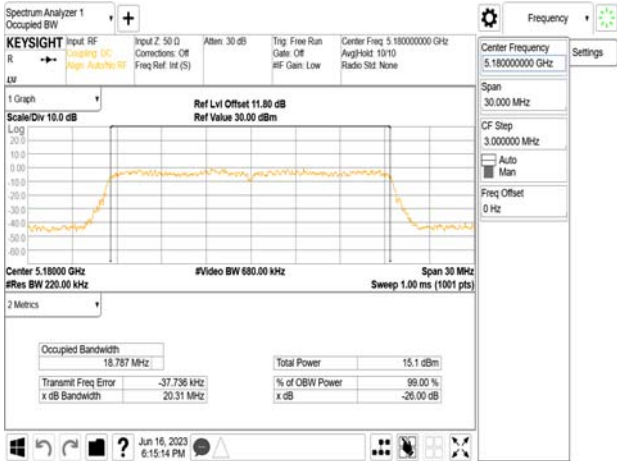
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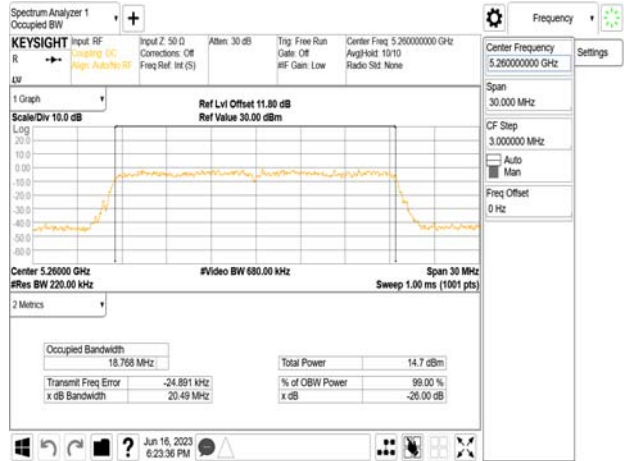
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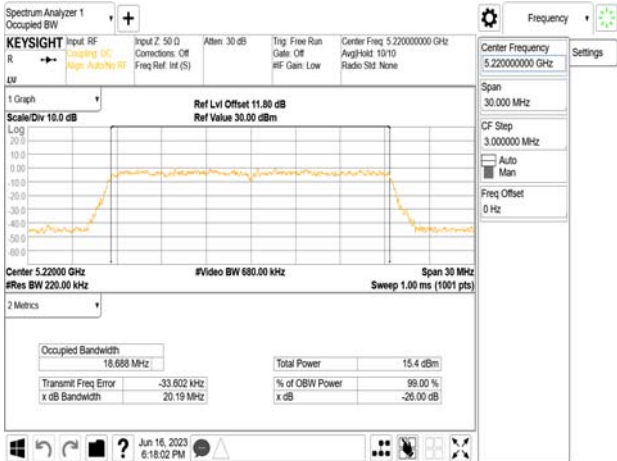
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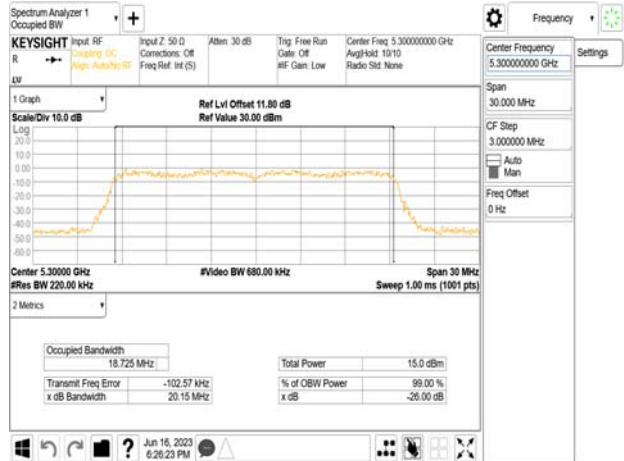
802.11ax_20MHz_Chain1_5260MHz



802.11ax_20MHz_Chain1_5220MHz



802.11ax_20MHz_Chain1_5300MHz



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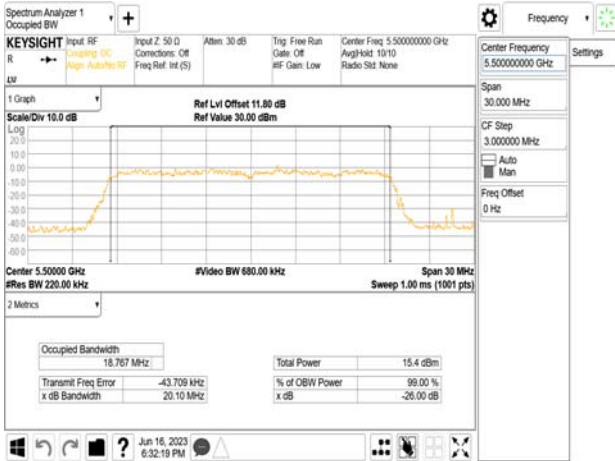
802.11ax_20MHz_Chain1_5320MHz



802.11ax_20MHz_Chain1_5700MHz



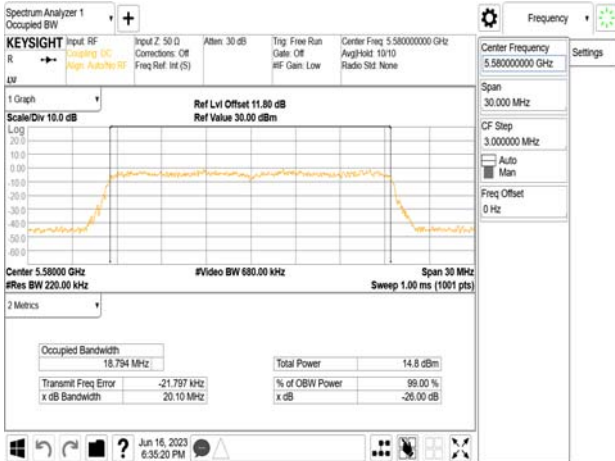
802.11ax_20MHz_Chain1_5500MHz



802.11ax_20MHz_Chain1_5720MHz



802.11ax_20MHz_Chain1_5580MHz



802.11ax_20MHz_Chain1_5745MHz



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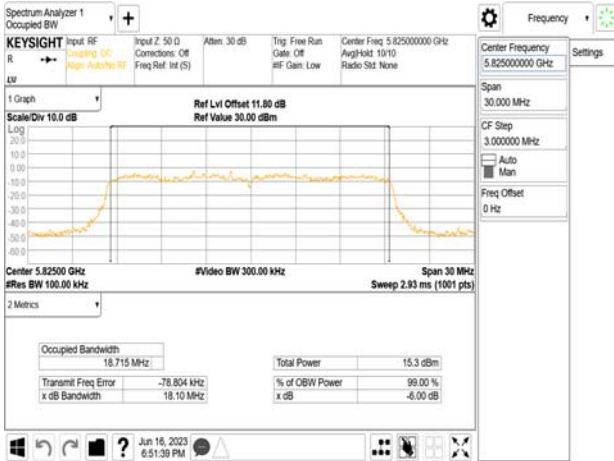
802.11ax_20MHz_Chain1_5785MHz



802.11ax_40MHz_Chain0_5230MHz



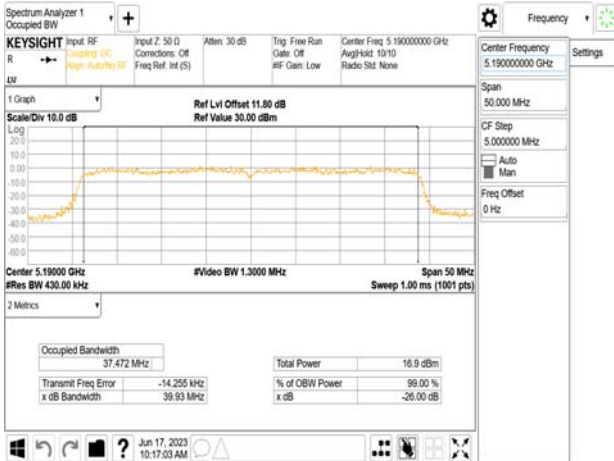
802.11ax_20MHz_Chain1_5825MHz



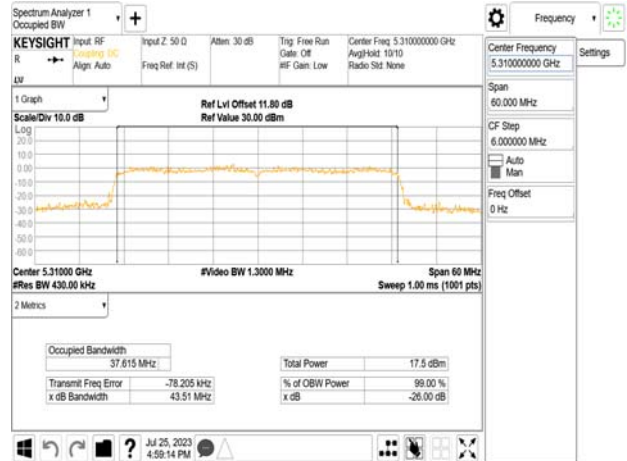
802.11ax_40MHz_Chain0_5270MHz



802.11ax_40MHz_Chain0_5190MHz



802.11ax_40MHz_Chain0_5310MHz

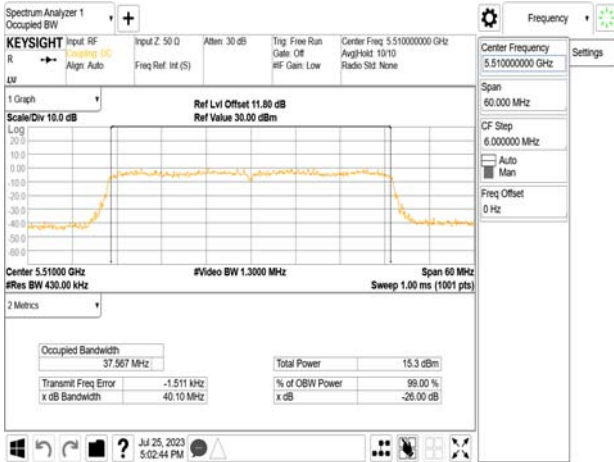


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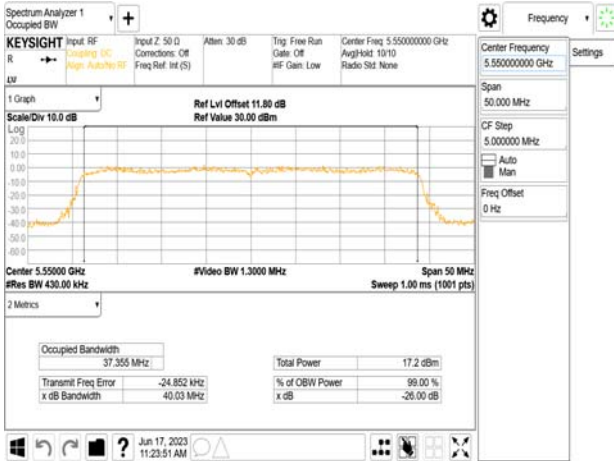
802.11ax_40MHz_Chain0_5510MHz



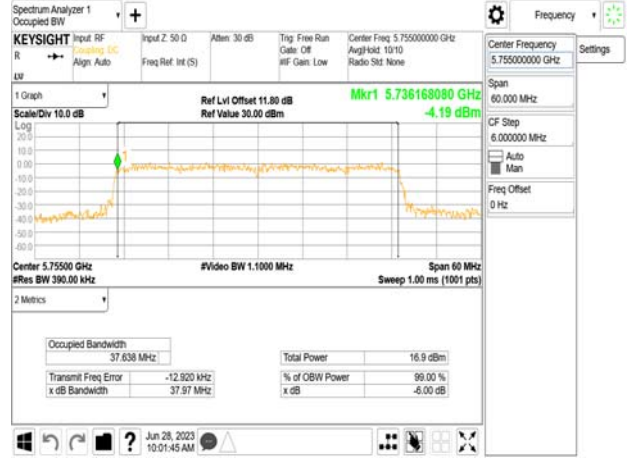
802.11ax_40MHz_Chain0_5710MHz



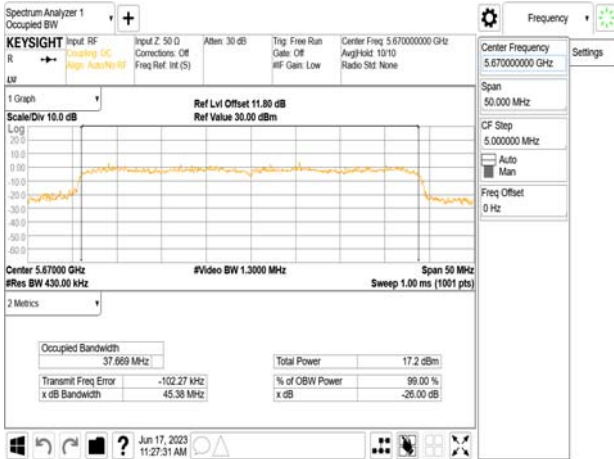
802.11ax_40MHz_Chain0_5550MHz



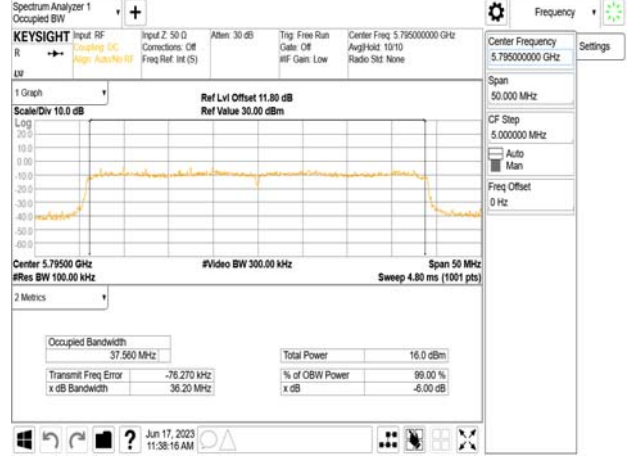
802.11ax_40MHz_Chain0_5755MHz



802.11ax_40MHz_Chain0_5670MHz



802.11ax_40MHz_Chain0_5795MHz

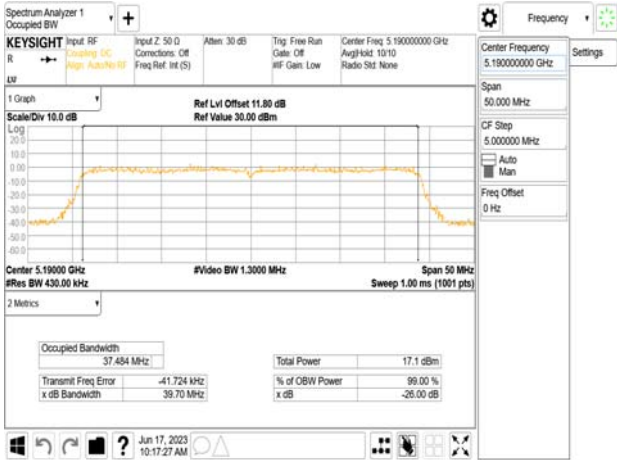


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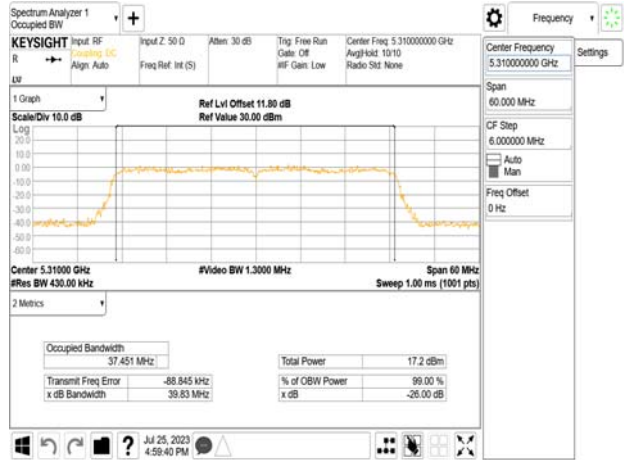
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802.11ax_40MHz_Chain1_5190MHz



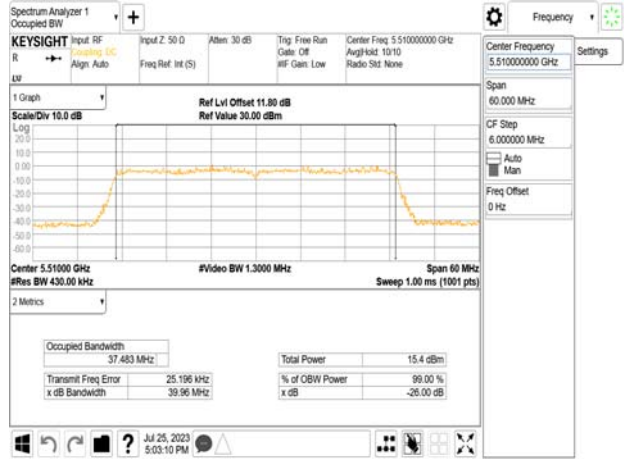
802.11ax_40MHz_Chain1_5310MHz



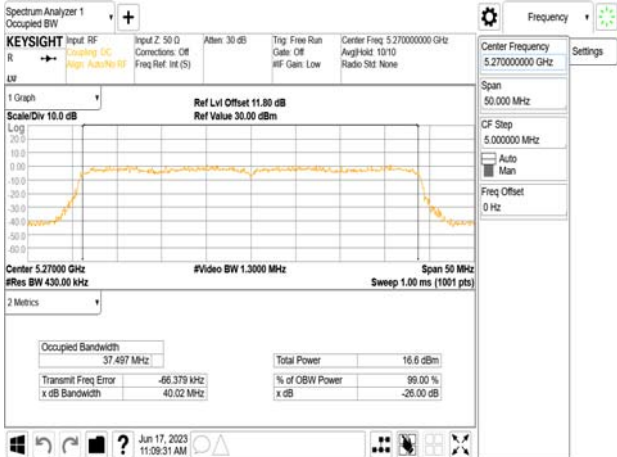
802.11ax_40MHz_Chain1_5230MHz



802.11ax_40MHz_Chain1_5510MHz



802.11ax_40MHz_Chain1_5270MHz



802.11ax_40MHz_Chain1_5550MHz

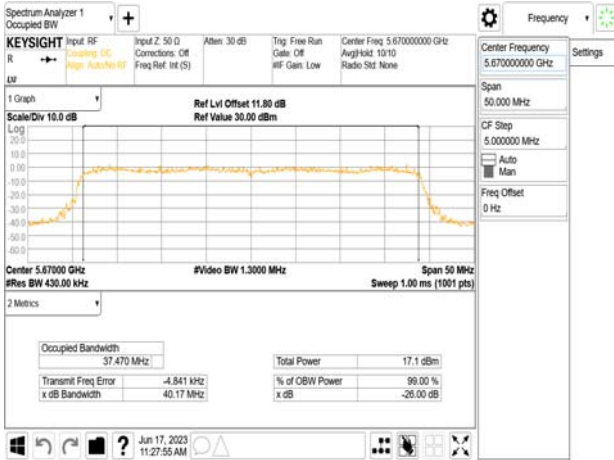


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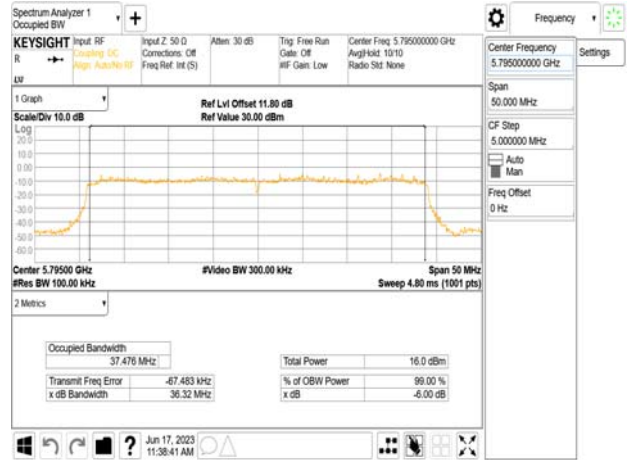
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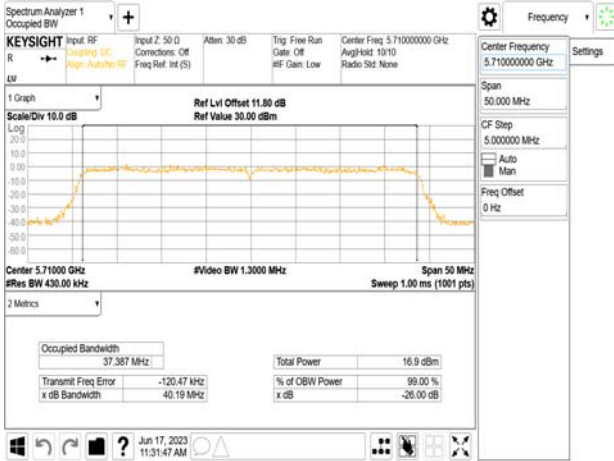
802.11ax_40MHz_Chain1_5670MHz



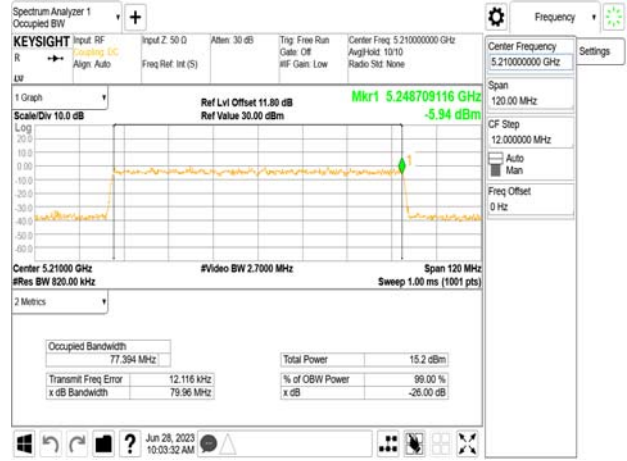
802.11ax_40MHz_Chain1_5795MHz



802.11ax_40MHz_Chain1_5710MHz



802.11ax_80MHz_Chain0_5210MHz



802.11ax_40MHz_Chain1_5755MHz



802.11ax_80MHz_Chain0_5290MHz



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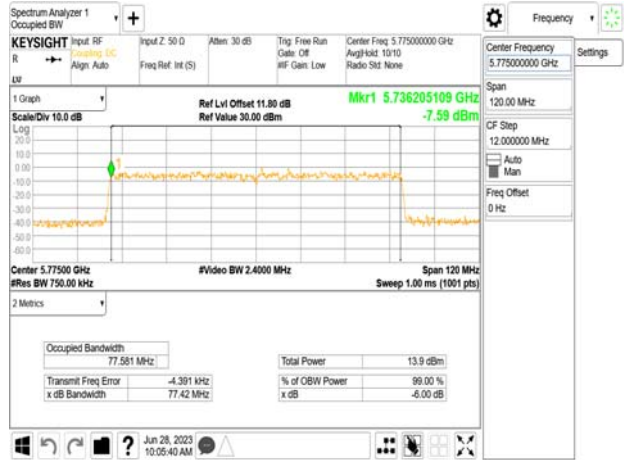
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802.11ax_80MHz_Chain0_5530MHz



802.11ax_80MHz_Chain0_5775MHz



802.11ax_80MHz_Chain0_5610MHz



802.11ax_80MHz_Chain1_5210MHz



802.11ax_80MHz_Chain0_5690MHz



802.11ax_80MHz_Chain1_5290MHz

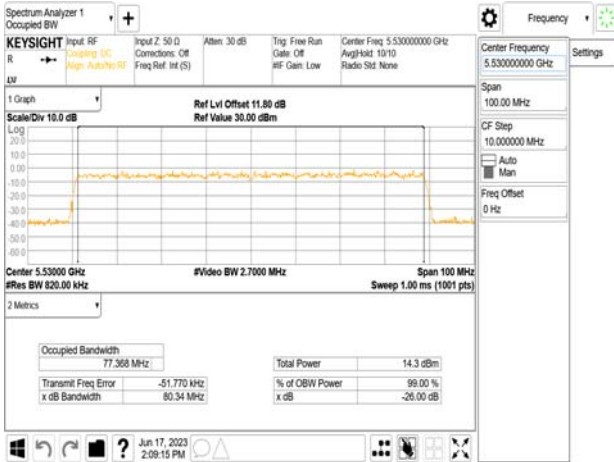


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802.11ax_80MHz_Chain1_5530MHz



802.11ax_80MHz_Chain1_5775MHz



802.11ax_80MHz_Chain1_5610MHz



802.11ax_80MHz_Chain1_5690MHz



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8.4.2 ISED Occupied Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.525	12.180
5220	16.565	12.190
5240	16.586	12.200
5260	16.604	12.200
5300	16.534	12.180
5320	16.568	12.190
5500	16.554	12.190
5580	16.590	12.200
5700	17.696	12.480
5720(U-NII 2C)	13.655	11.350
5720(U-NII 3)	3.655	5.630

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.619	16.380
5785	16.573	16.400
5825	16.569	16.420

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802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.532	12.180
5220	16.558	12.190
5240	16.538	12.180
5260	16.533	12.180
5300	16.559	12.190
5320	16.537	12.180
5500	16.527	12.180
5580	16.542	12.190
5700	16.499	12.170
5720(U-NII 2C)	13.279	11.230
5720(U-NII 3)	3.279	5.160

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.519	16.460
5785	16.533	16.400
5825	16.537	16.440

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802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.619	12.460
5220	17.630	12.460
5240	17.634	12.460
5260	17.639	12.460
5300	17.630	12.460
5320	17.623	12.460
5500	17.627	12.460
5580	17.618	12.460
5700	17.615	12.460
5720(U-NII 2C)	14.002	11.460
5720(U-NII 3)	4.002	6.020

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.637	17.330
5785	17.639	17.640
5825	17.641	17.490

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802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.625	12.460
5220	17.618	12.460
5240	17.615	12.460
5260	17.634	12.460
5300	17.652	12.470
5320	17.629	12.460
5500	17.630	12.460
5580	17.629	12.460
5700	17.616	12.460
5720(U-NII 2C)	13.815	11.400
5720(U-NII 3)	3.815	5.810

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.618	17.630
5785	17.629	17.630
5825	17.626	17.660

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802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.113	15.580
5230	36.177	15.580
5270	36.066	15.570
5310	36.116	15.580
5510	36.095	15.570
5550	36.038	15.570
5670	36.502	15.620
5710(U-NII 2C)	33.190	15.210
5710(U-NII 3)	3.190	5.040

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.092	36.100
5795	36.124	36.110

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.168	15.580
5230	36.065	15.570
5270	36.120	15.580
5310	36.127	15.580
5510	36.120	15.580
5550	36.068	15.570
5670	36.147	15.580
5710(U-NII 2C)	33.016	15.190
5710(U-NII 3)	3.016	4.790

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.133	36.100
5795	36.163	36.210

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802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.988	18.810
5290	75.960	18.810
5530	75.862	18.800
5610	75.895	18.800
5690(U-NII 2C)	73.093	18.640
5690(U-NII 3)	3.093	4.900

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.962	76.330

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.945	18.800
5290	76.044	18.810
5530	75.876	18.800
5610	75.893	18.800
5690(U-NII 2C)	72.931	18.630
5690(U-NII 3)	2.931	4.670

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.843	76.200

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802.11ax_HE20_Ch0

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5180	full	18.754	12.730
5220	full	18.764	12.730
5240	full	18.720	12.720
5260	full	18.734	12.730
5300	full	18.760	12.730
5320	full	18.823	12.750
5500	full	18.735	12.730
5580	full	18.796	12.740
5700	full	18.902	12.770
5720(U-NII 2C)	full	14.416	11.590
5720(U-NII 3)	full	4.416	6.450

802.11ax_HE20_Ch0

Frequency (MHz)	RU config	99% BW (MHz)	6dB BW (MHz)
5745	full	18.811	18.740
5785	full	18.771	18.580
5825	full	18.805	18.830

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802.11ax_HE20_Ch1

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5180	full	18.763	12.730
5220	full	18.749	12.730
5240	full	18.776	12.740
5260	full	18.806	12.740
5300	full	18.755	12.730
5320	full	18.770	12.730
5500	full	18.718	12.720
5580	full	18.788	12.740
5700	full	18.708	12.720
5720(U-NII 2C)	full	14.381	11.580
5720(U-NII 3)	full	4.381	6.420

802.11ax_HE20_Ch1

Frequency (MHz)	RU config	99% BW (MHz)	6dB BW (MHz)
5745	full	18.719	18.500
5785	full	18.708	18.370
5825	full	18.730	18.540

802.11ax_HE40_Ch0

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5190	full	37.508	15.740
5230	full	37.602	15.750
5270	full	37.544	15.750
5310	full	37.507	15.740
5510	full	37.510	15.740
5550	full	37.583	15.750
5670	full	37.646	15.760
5710(U-NII 2C)	full	33.806	15.290
5710(U-NII 3)	full	3.806	5.800

802.11ax_HE40_Ch0

Frequency (MHz)	RU config	99% BW (MHz)	6dB BW (MHz)
5755	full	37.517	37.440
5795	full	37.449	37.490

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802.11ax_HE40_Ch1

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5190	full	37.434	15.730
5230	full	37.570	15.750
5270	full	37.446	15.730
5310	full	37.524	15.740
5510	full	37.439	15.730
5550	full	37.512	15.740
5670	full	37.536	15.740
5710(U-NII 2C)	full	33.748	15.280
5710(U-NII 3)	full	3.748	5.740

802.11ax_HE40_Ch1

Frequency (MHz)	RU config	99% BW (MHz)	6dB BW (MHz)
5755	full	37.475	37.380
5795	full	37.445	37.200

802.11ax_HE80_Ch0

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5210	full	77.567	18.900
5290	full	77.482	18.890
5530	full	77.489	18.890
5610	full	77.535	18.890
5690(U-NII 2C)	full	73.796	18.680
5690(U-NII 3)	full	3.796	5.790

802.11ax_HE80_Ch0

Frequency (MHz)	RU config	99% BW (MHz)	6dB BW (MHz)
5775	full	77.498	78.020

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802.11ax_HE80_Ch1

Frequency (MHz)	RU config	99% BW (MHz)	10 Log (B) (dB)
5210	full	77.355	18.880
5290	full	77.610	18.900
5530	full	77.535	18.890
5610	full	77.523	18.890
5690(U-NII 2C)	full	73.729	18.680
5690(U-NII 3)	full	3.729	5.720

802.11ax_HE80_Ch1

Frequency (MHz)	RU config	99% BW (MHz)	6dB BW (MHz)
5775	full	77.414	77.560

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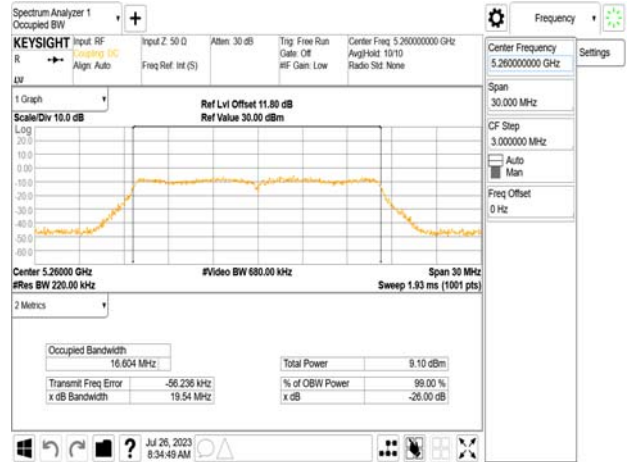
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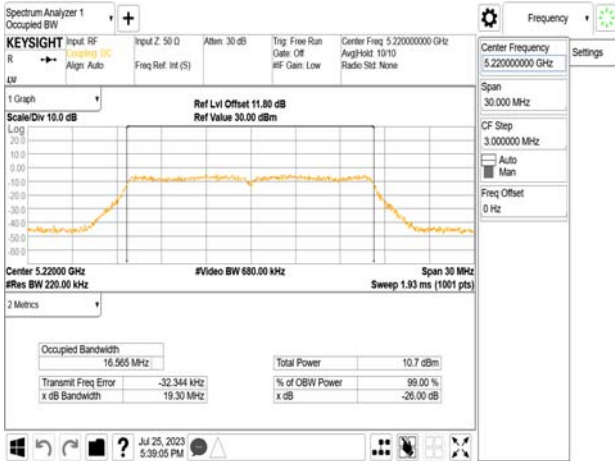
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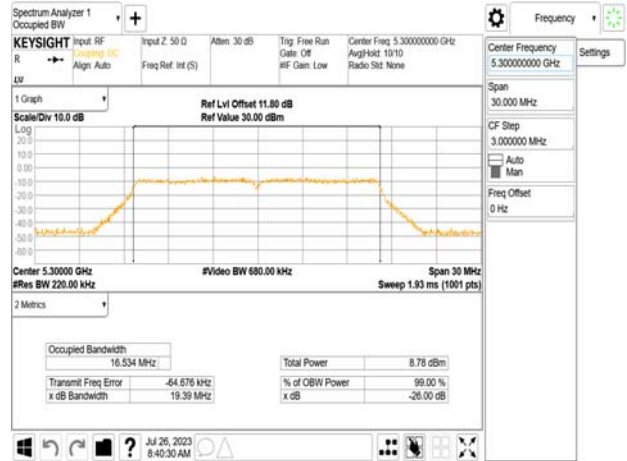
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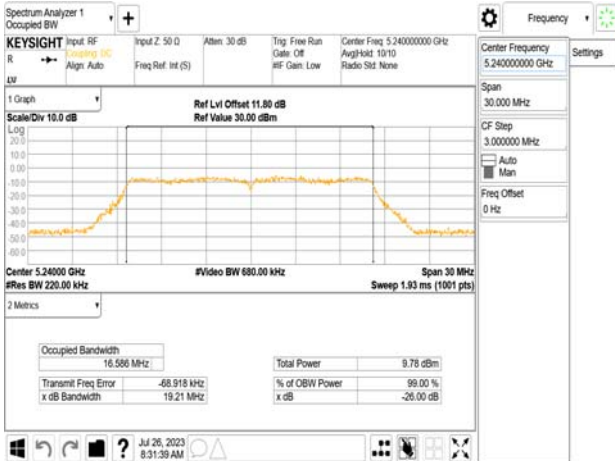
802.11a_20MHz_Chain0_5220MHz



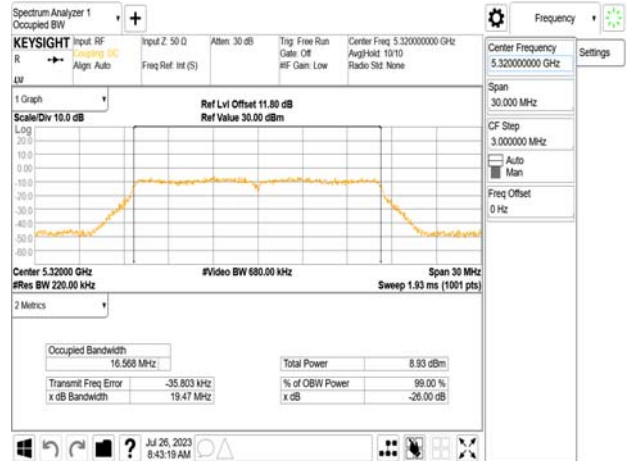
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

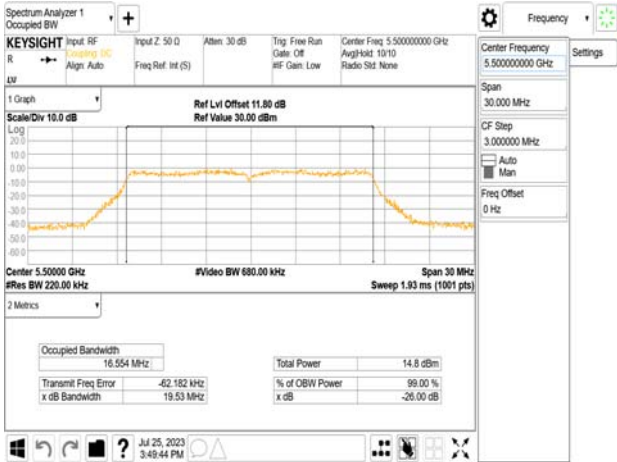


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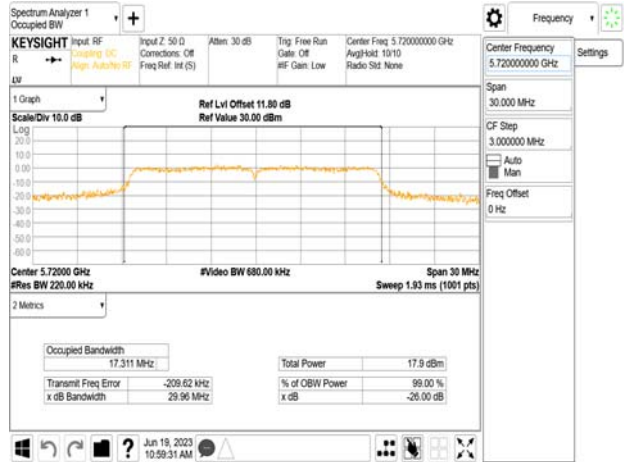
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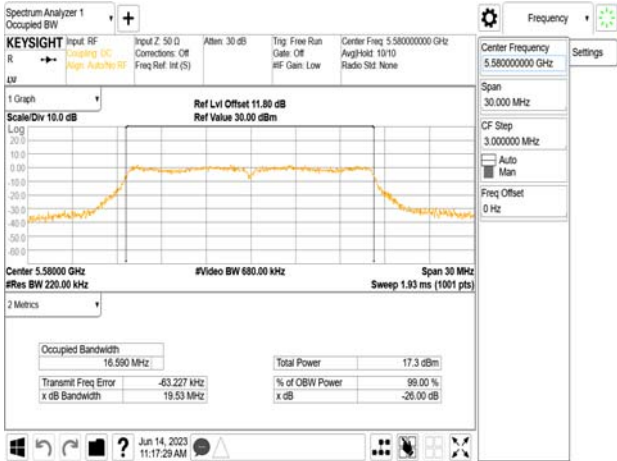
802.11a_20MHz_Chain0_5500MHz



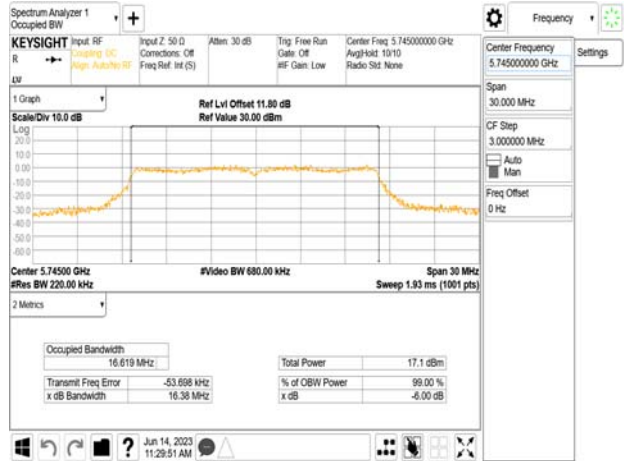
802.11a_20MHz_Chain0_5720MHz



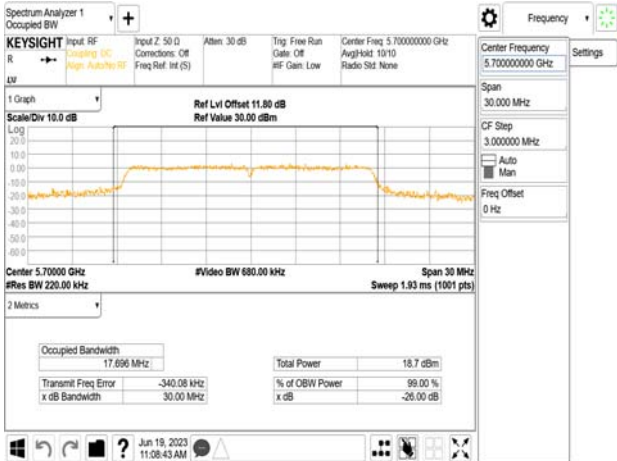
802.11a_20MHz_Chain0_5580MHz



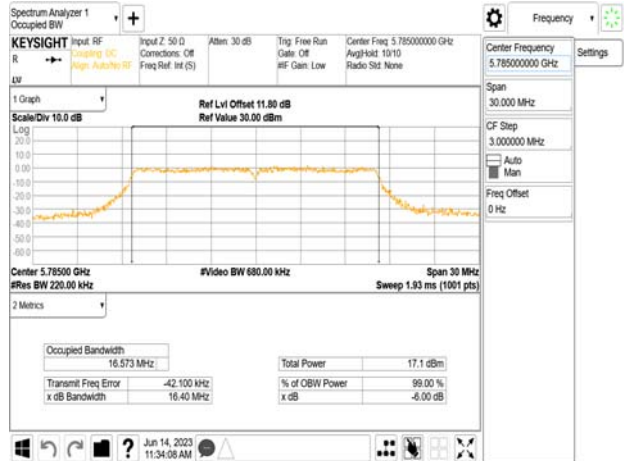
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz



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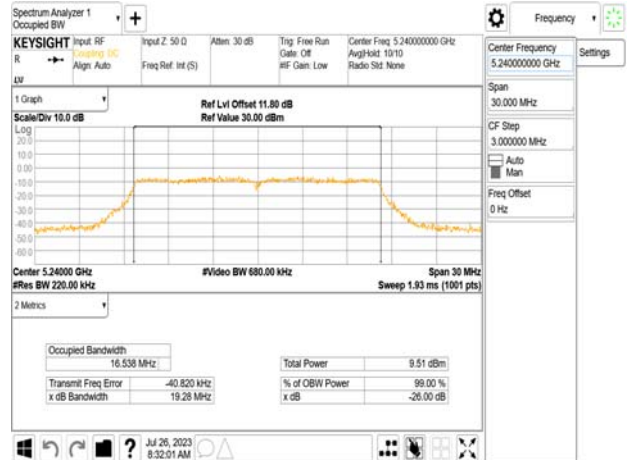
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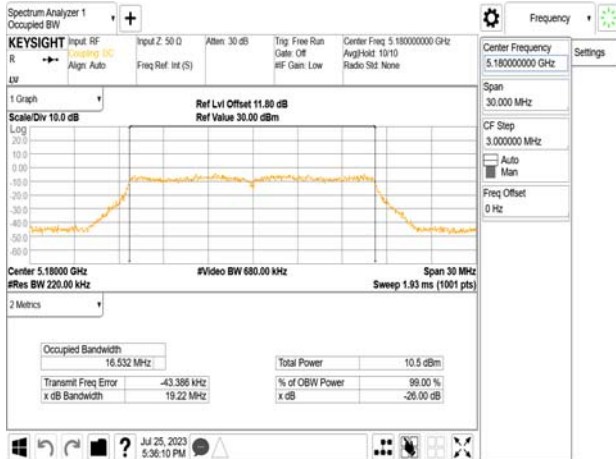
802.11a_20MHz_Chain0_5825MHz



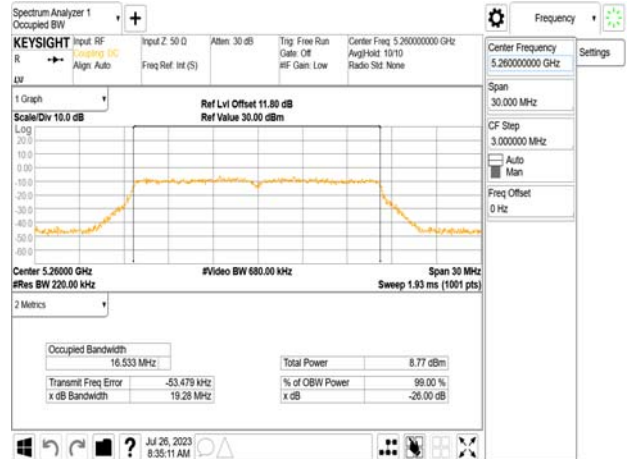
802.11a_20MHz_Chain1_5240MHz



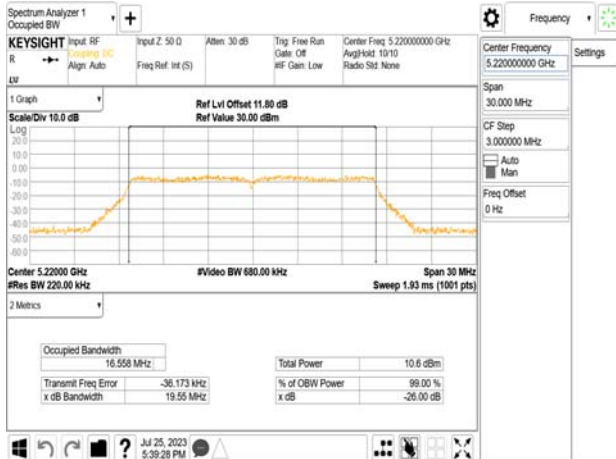
802.11a_20MHz_Chain1_5180MHz



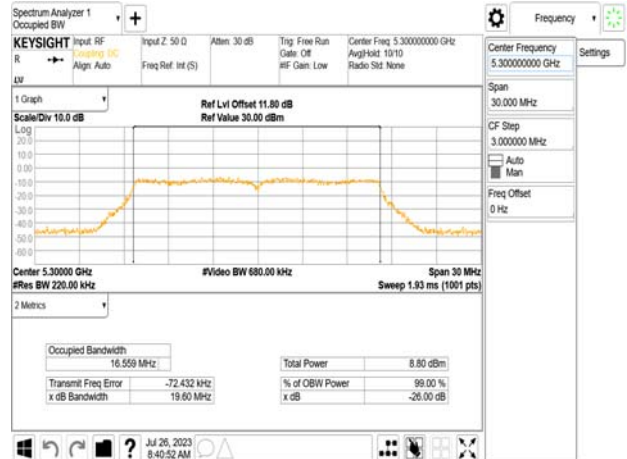
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz



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