

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Wireless Home Phone
Applicant: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300, Taiwan
Manufacturer: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300, Taiwan
Brand Name: Verizon
Model No. VG10A
Family Model No.: VG11A
Model Difference: For marketing purposes only
Report Number: TERF2511003797ER
FCC ID NKRGENESIS
Date of EUT Received: November 12, 2025
Date of Test: November 18, 2025 ~ March 30, 2026
Issue Date: April 10, 2026

Jazz Huang

Approved By

Jazz 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 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
TERF2511003797ER	00	Original	April 10, 2026	Candice Li	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、During the testing period, the EUT underwent component changes; therefore, additional measurements of Unwanted Emissions were performed.

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	Wireless Home Phone
Brand Name	Verizon
Model No.	VG10A
Family Model No.:	VG11A
Model Difference:	For marketing purposes only
EUT Series No.:	ADE54300021
Power Supply	6 Vdc from 4*AA Battery 5 Vdc from AC/DC Adapter with 110~240V AC input.
Test Software (Name/Version)	Quakcomm Radio Control Tool (x84) 4.0.181.1

1.2 RF Specification

Modulation type	802.11a	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11n	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11ac	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11ax	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Transition Rate	802.11a	6 - 54 Mbps
	802.11n_HT20	up to 144.4 Mbps
	802.11n_HT40	up to 300 Mbps
	802.11ac_VHT20	up to 173.3 Mbps
	802.11ac_VHT40	up to 400 Mbps
	802.11ac_VHT80	up to 866.7 Mbps
	802.11ac_VHT160	up to 1733.3 Mbps
	802.11ax_HE20	up to 286.8 Mbps
	802.11ax_HE40	up to 573.5 Mbps
	802.11ax_HE80	up to 1201 Mbps
	802.11ax_HE160	up to 2402 Mbps

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1.3 Antenna Designation

Ant. Type	Model No.	Antenna No.	Freq (MHz) / Peak Gain (dBi)
PIFA	95XPAA15.G48VZ	2G5G_1	5150~5250: 5.15 5250~5350: 5.15 5470~5725: 5.21 5725~5850: 5.49
PIFA	95XPAA15.G49VZ	2G5G_2	5150~5250: 5.14 5250~5350: 5.14 5470~5725: 4.73 5725~5850: 5.15

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 The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
- 3 The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
- 4 The directional gain is calculated according to section F. 2). e). (ii) of FCC KDB 662911 D01.

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1.4 FCC Rated Power

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)
802.11a 802.11n_HT20 802.11ac_VHT20 802.11ax_HE20	5180~5240	4	Avg	21.15 dBm
	5260~5320	4	Avg	21.61 dBm
	5500~5720	12	Avg	20.45 dBm
	5745~5825	5	Avg	22.76 dBm
802.11n_HT40 802.11ac_VHT40 802.11ax_HE40	5190~5230	2	Avg	22.74 dBm
	5270~5310	2	Avg	22.8 dBm
	5510~5710	6	Avg	22.94 dBm
	5755~5795	2	Avg	22.89 dBm
802.11ac_VHT80 802.11ax_HE80	5210	1	Avg	19.44 dBm
	5290	1	Avg	19.26 dBm
	5530~5690	3	Avg	22.62 dBm
	5775	1	Avg	22.68 dBm
802.11ac_VHT160 802.11ax_HE160	5250	1	Avg	18.61 dBm
	5570	1	Avg	19.49 dBm

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1.5 Operating Frequencies

Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	144	5720 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	-	-	-	-	-	-
Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	151	5755 MHz	159	5795 MHz
Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
42	5210 MHz	58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	155	5775 MHz	-	-	-	-
Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
50	5250 MHz	114	5570 MHz	-	-	-	-

1.6 EUT Availability and The Worst Test Modes

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 modes below.

Modulation		Transmission Chain								Single Transmission Spatial	Multiple Transmission Spatial
V	802.11 a	V	Ch0	V	Ch1		Ch2		Ch3	1TX	2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3	1TX	2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3	1TX	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3	1TX	2TX

Note:

The 802.11n mode applies to 20 MHz (40 MHz), and the power of the 802.11ac modes is the same or lower than that of the 802.11n.

The worst-case 802.11a/n20/n40/ac80/ac160/ax20/ax40/ax80/ax160 data will be presented in the test report.

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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	100,120,140,144			
	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	100,120,140,144			
	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	102,118,134,142			
	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			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,120,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,118,134,142			
	5755~5795	151 to 159	151,159			
802.11ax_HE80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
802.11ax_HE160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	120			
	5745~5825	149 to 165	157			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,120,140,144			
	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			
	5500~5700	100 to 140	100,120,140			
	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	102,118,134,142			
	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			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,120,140,144			
	5745~5825	149 to 165	149,157,165			
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,118,134,142			
	5755~5795	151 to 159	151,159			
802.11ax_HE80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
802.11ax_HE160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			

Additional measurement

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5745-5825	149 to 165	157	OFDM	6	2TX

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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2 SUMMARY OF TEST RESULTS

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
§15.203	Antenna Requirement	Compliant

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart E §15.407
2. ANSI C63.10:2020
3. FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
4. FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 dB
Emission Bandwidth	+/- 1.38 Hz
Output Power measurement	+/- 0.97 dB
Peak Power Spectral Density Measurement	+/- 0.61 dB
Frequency Stability	+/- 1.48 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted 1	Teddy Lu	ADE54300036	22-26°C / 55-60%	2025/12/17 ~ 2026/01/22
Radiated	SAC 1	WJ Lin	ADE54300032	20~25°C / 42~67%	2026/01/06 ~ 2026/01/22
Radiated	SAC 1	WJ Lin	ADE54300032	20.2~25.7°C / 52~65%	2026/03/25 ~ 2026/03/30
Conduction	Conduction 1	WJ Lin	ADE54300032	19~25°C / 48~67%	2026/01/06 ~ 2026/01/22

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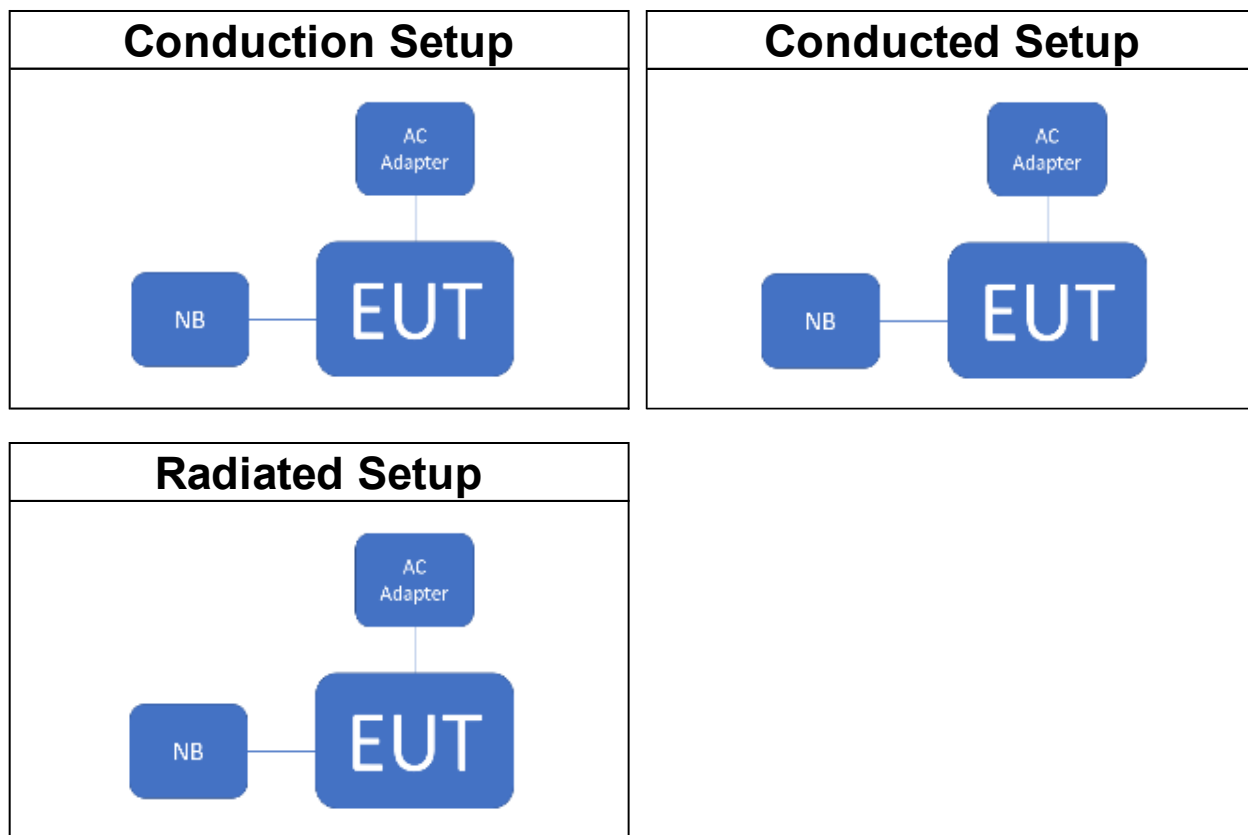
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 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.

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.

3.2 Diagrams



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3.3 List

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9 14/10	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9 14/10	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
AC Adapter	LUCENT TRANS	1D17-EDHD	1D17C000507002253 900069	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9 14/10	N/A	N/A

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4 TEST INSTRUMENT

4.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2025	06/21/2026
EMI Test Receiver	R&S	ESCI 7	100759	09/02/2025	09/01/2026
LISN	SCHWARZBECK	NSLK 8127	1040	09/13/2025	09/12/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2025	06/21/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

4.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	10	12/07/2025	12/06/2026
DC Block	Mini-Circuits	BLK-18-S+	6	12/07/2025	12/06/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	06/23/2026
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Power Meter	Anritsu	ML2496A	1242004	10/23/2025	10/22/2026
Power Sensor	Anritsu	MA2411B	1207365	11/06/2025	11/05/2026
Power Sensor	Anritsu	MA2411B	1207368	10/23/2025	10/22/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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4.3 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
7G High Pass Filter	WI	WHKX7.0	45	12/07/2025	12/06/2026
Band Reject Filter 5150-5350	Titan	T04N5150535050S01	211112-2-1	12/07/2025	12/06/2026
Band Reject Filter 5470-5725	Titan	T04N5470572550S01	211112-2-2	12/07/2025	12/06/2026
Band Reject Filter 5725-5895	Titan	T04N5725589550S01	211112-2-7	12/07/2025	12/06/2026
Bi-log Antenna	TESEO	CB1 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/29/2025	10/28/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/20/2025	05/19/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/30/2025	12/29/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

Additional measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Bi-log Antenna	TESEO	CB1 6112D	35242 & AT-N0555	12/23/2025	12/22/2026
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+150817)	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/23/2026	02/22/2027
MXA Spectrum Analyzer	KEYSIGHT	N9021B	MY62242004	06/11/2025	06/10/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

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.

5.2 Maximum Output Power

5.2.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

e-CRF Title 47 §15.407					
Select	EUT CATEGORY	Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1 (5150~5250 MHz)					
	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A (5250~5350 MHz)					
V	All	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C (5470~5725 MHz)					
V	All	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-3 (5725~5850 MHz)					
V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.					

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5.3 Maximum Power Spectral Density

e-CRF Title 47 §15.407			
Select	EUT CATEGORY	Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1 (5150~5250 MHz)			
	Fixed point-to-point	17dBm / MHz	23dBi
	Outdoor AP	17dBm/ MHz, EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
	Indoor AP	17dBm / MHz	6dBi
V	Client device	11dBm / MHz	6dBi
U-NII-2A (5250~5350 MHz)			
V	All	11dBm / MHz	6dBi
U-NII-2C (5470~5725 MHz)			
V	All	11dBm / MHz	6dBi
U-NII-3 (5725~5850 MHz)			
V	All	30dBm / 500kHz	6dBi
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.			

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5.4 Unwanted Emissions

5.4.1 5150~5850 MHz

Standards	Operation Freq. (MHz)	Freq.(MHz)	EIRP Limits (dBm/MHz)	Field Strength @ 3m(dBμV/m)
15.407(b)(1)	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2)	5250~5350			
15.407(b)(3)	5475~5725	f ≤ 5470 f ≥ 5725	PK: -27	PK: 68.2
15.407(b)(4)(i)	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2
EIRP = (E*d)^2 / 30, where E is the field strength in V/m, d is the measurement distance (3m), EIRP is the equivalent isotopically radiated power in Watts.				

5.4.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Note: The lower limit shall apply at the transition frequencies.		

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5.5 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz 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		

5.6 Antenna Requirements

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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6 TEST CONFIGURATION

6.1 Emission Bandwidth



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 antenna and connect EUT port to spectrum analyzer with low-loss RF cable.
4. 26dB Band width Measurement:
Set the spectrum analyzer as 1% of emission BW
RBW=1% of emission BW,
VBW > RBW
Sweep = Auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually adjust RBW until RBW/EBW ratio is 1% (per pre-sequence EBW result).
Use the X dB bandwidth mode function of the spectrum analyzer and set to 26dB.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz
Set the spectrum analyzer as
RBW = 100 kHz,
VBW $\geq 3 \times$ RBW,
Detector = Peak,
Span = large enough to capture all products of the modulation process,
Sweep = Auto,
Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
6. For 99% Bandwidth:
Set the spectrum analyzer as
RBW = 1% to 5% of the 99%,
VBW $\geq 3 \times$ RBW,
Span = 1.5 times to 5.0 times the OBW,
Detector = Sample/Peak,
Sweep = Auto,
Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all frequency of interest measured was complete.
8. For 26dB BW and OBW of straddle channels, the results were calculated as below.
straddle channel emission BW in U-NII 2C = (emission BW/2) + (5725-straddle channel)
straddle channel emission bandwidth in U-NII 3 = emission BW- emission BW_U-NII 2C

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6.2 Maximum Output Power

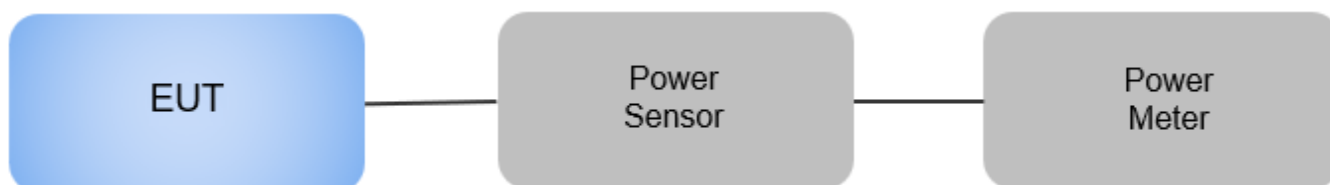
6.2.1 Duty Cycle



Set the spectrum analyzer as

Span = Zero,
RBW = 8 MHz,
VBW = 8 MHz,
Detector = Peak,

6.2.2 Maximum Output Power



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 antenna and connect EUT port to power meter via low-loss RF cable.
4. Method PM (Measurement using an RF average power meter):
 - a. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - b. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
 - c. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - d. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - e. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal.
 - f. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

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- g. Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

Directional Gain

$$= 10 \times \log \left\{ \frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2}{N_{ant}} \right\}$$

6.3 Maximum Power Spectral Density



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 Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set the spectrum analyzer as follows:
RBW = 1 MHz
VBW = 3 MHz
Span = wide enough to capture the entire bandwidth
Sweep time = Auto (1001 pts)
Detector = power averaging (rms); if unavailable, use sample detector mode
Trace Mode = video averaging (100 sweeps)
Use SA-2 method with integration based on 26 dB EBW bandwidth (procedure x omitted)

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5 For U-NII-3 Band:

Set the spectrum analyzer as follows:

RBW = 300 kHz

VBW = 1 MHz

Span = wide enough to capture the entire bandwidth

Sweep time = Auto

Detector = RMS or Sample

Trace Mode = video averaging (100 sweeps)

In addition, since the measurement bandwidth of Maximum PSD is specified as 500 kHz, add $10 \log (500 \text{ kHz} / \text{RBW})$ to the measured result.

6 Use the cursor on spectrum to peak search the highest level of trace

(1) Duty cycle $\geq 98\%$: Record the max. reading.

(2) Duty cycle $< 98\%$: Record the max. reading and add $10 \log(1/\text{duty cycle})$.

7 Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.

The directional gain is calculated using the formula

Directional Gain

$$= 10 \times \log_{10} \left(\frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2}{N_{\text{ant}}} \right)$$

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6.4 Unwanted Emissions

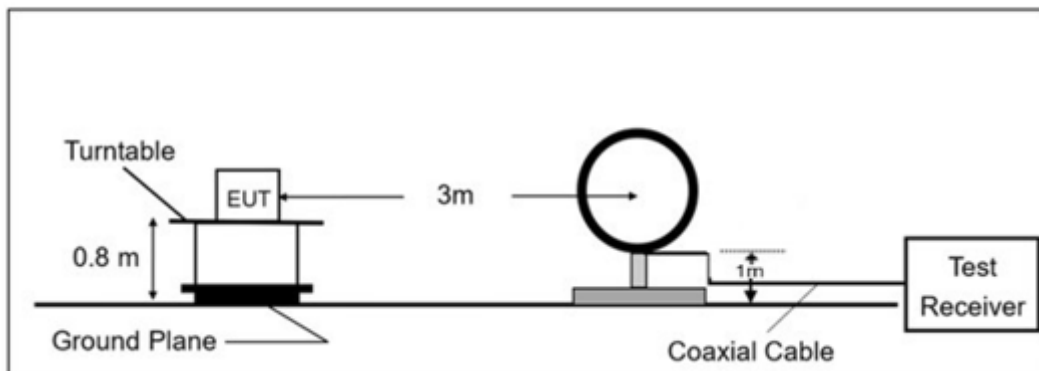
6.4.1 Radiated Emission Test Sites

For Measurements From 9 kHz To 30 MHz

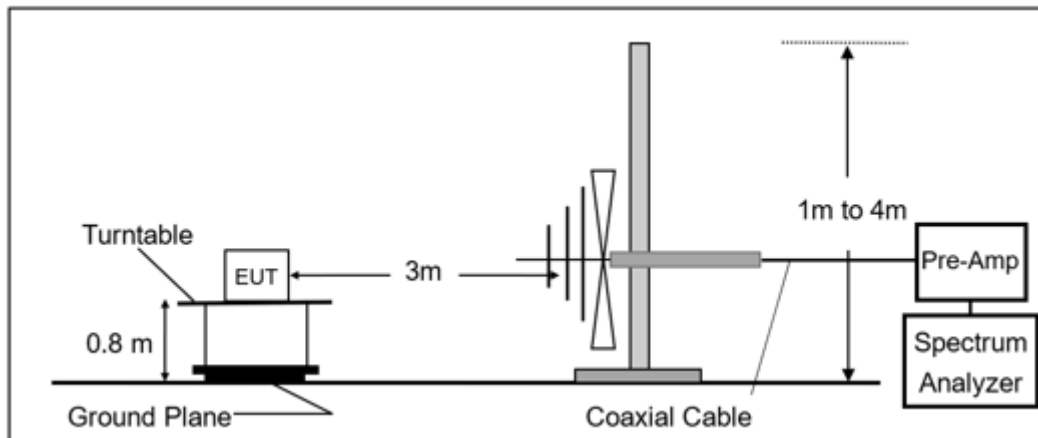
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

Radiated Emission Test Set-Up, Frequency Below 30MHz.



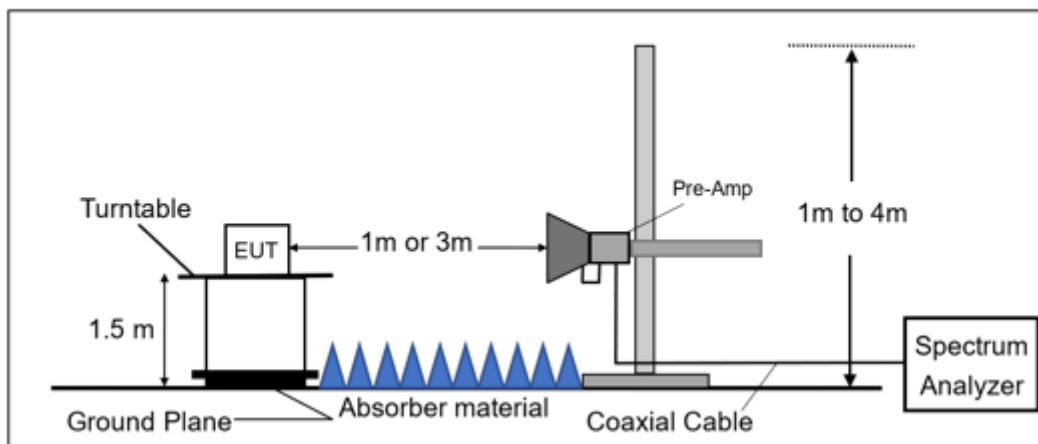
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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Radiated Emission Test Set-Up, Frequency Above 1GHz.



6.4.2 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.

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7. For measurements above 1GHz, set the spectrum analyzer as
- ☒ For Peak measurement:
 - RBW=1 MHz
 - VBW=3 MHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Average measurement:
 - ☒ Duty cycle $\geq 98\%$:
 - RBW=1 MHz
 - VBW=3 MHz
 - Detector = Power averaging (rms)
 - trace average was performed over at least 100 traces
 - ☐ Duty cycle $\geq 98\%$:
 - RBW=1 MHz
 - VBW=10 Hz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ Duty cycle $< 98\%$:
 - RBW=1 MHz
 - VBW $\geq 1/T$
 - Detector = peak
 - Trace mode = max-hold
 - ☐ Duty cycle $< 98\%$:
 - RBW=1 MHz
 - VBW ≥ 3 MHz
 - Detector = Power averaging (rms)
 - trace average was performed over at least 100 traces
 - add Duty cycle factor(dB).
8. When 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits, and hence not reported.

Pre-scan was conducted at 5.47 GHz and 5.85 GHz for band-edge measurements of straddle channels 138, 142, and 144. Since the results were 20 dB below the limit, they were not reported, in accordance with

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6.4.3 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

$$FS = RA + AF + CL - AG$$

Where:

FS = Field Strength (dB μ V/m)
RA = Reading Amplitude (dB μ V)
AF = Antenna Factor (dB/m)
CL = Cable Loss (dB)
AG = Amplifier Gain (dB)

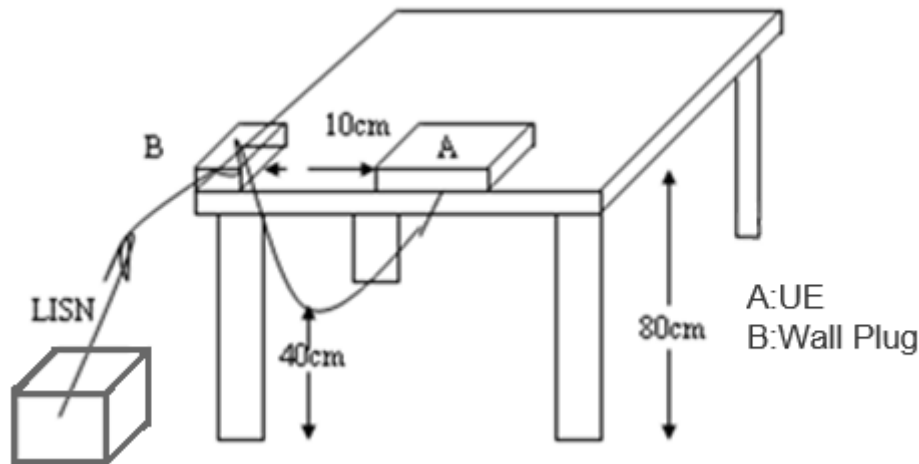
The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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6.5 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI_C63.10
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 26dB Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.67	12.710
5220	19.08	12.810
5240	19.20	12.830
5260	19.13	12.820
5300	18.97	12.780
5320	20.32	13.080
5500	19.30	12.860
5600	19.12	12.810
5700	18.83	12.750
5720	14.57	11.630

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.89	12.760
5220	19.50	12.900
5240	19.84	12.980
5260	18.90	12.760
5300	19.12	12.810
5320	19.74	12.950
5500	19.04	12.800
5600	19.16	12.820
5700	19.15	12.820
5720	14.64	11.660

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.17	5.010
5745	16.38	12.140
5785	16.43	12.160
5825	16.33	12.130

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.22	5.080
5745	16.39	12.150
5785	16.38	12.140
5825	16.41	12.150

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.23	< 5250
5745	5736.77	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.25	< 5250
5745	5736.79	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.35	13.090
5220	19.92	12.990
5240	20.21	13.060
5260	20.16	13.040
5300	20.46	13.110
5320	20.29	13.070
5500	20.33	13.080
5600	20.10	13.030
5700	19.82	12.970
5720	15.01	11.760

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.28	13.070
5220	20.08	13.030
5240	20.28	13.070
5260	20.36	13.090
5300	20.13	13.040
5320	20.76	13.170
5500	20.02	13.010
5600	19.87	12.980
5700	20.05	13.020
5720	14.94	11.740

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.85	5.850
5745	17.06	12.320
5785	17.56	12.450
5825	17.55	12.440

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.82	5.820
5745	17.70	12.480
5785	17.61	12.460
5825	17.18	12.350

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.86	< 5250
5745	5736.19	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.90	< 5250
5745	5736.19	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.79	16.000
5230	49.11	16.910
5270	43.37	16.370
5310	39.48	15.960
5510	39.38	15.950
5590	39.26	15.940
5670	40.48	16.070
5710	35.55	15.510

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.23	15.940
5230	40.79	16.110
5270	40.55	16.080
5310	39.32	15.950
5510	39.61	15.980
5590	39.18	15.930
5670	40.36	16.060
5710	34.68	15.400

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	3.23	5.090
5755	36.39	15.610
5795	36.45	15.620

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	3.07	4.870
5755	36.39	15.610
5795	36.34	15.600

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.24	< 5250
5755	5736.93	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.23	< 5250
5755	5736.94	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.38	19.110
5290	81.35	19.100
5530	81.43	19.110
5610	81.26	19.100
5690	83.64	19.220

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.10	19.090
5290	80.95	19.080
5530	81.60	19.120
5610	81.06	19.090
5690	76.64	18.840

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	3.27	5.150
5775	74.51	18.720

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	3.26	5.130
5775	74.80	18.740

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.75	< 5250
5775	5737.16	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.77	< 5250
5775	5737.29	> 5725

802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.7	22.170
5570	165.0	22.170

802.11ac_VHT160_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.4	22.160
5570	163.7	22.140

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802.11ax_HE20_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.03	13.230
5220	21.10	13.240
5240	21.20	13.260
5260	20.99	13.220
5300	21.13	13.250
5320	21.02	13.230
5500	20.64	13.150
5600	20.56	13.130
5700	20.49	13.120
5720	15.41	11.880

802.11ax_HE20_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.91	13.200
5220	20.72	13.160
5240	21.05	13.230
5260	21.04	13.230
5300	20.94	13.210
5320	21.14	13.250
5500	20.64	13.150
5600	20.92	13.210
5700	20.48	13.110
5720	15.48	11.900

802.11ax_HE20_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	4.37	6.400
5745	18.97	12.780
5785	18.62	12.700
5825	18.73	12.730

802.11ax_HE20_SU_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	4.52	6.550
5745	18.98	12.780
5785	19.06	12.800
5825	18.97	12.780

802.11ax_HE20_SU_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.51	< 5250
5745	5735.49	> 5725

802.11ax_HE20_SU_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.53	< 5250
5745	5735.50	> 5725

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802.11ax_HE40_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.63	16.090
5230	49.15	16.920
5270	44.14	16.450
5310	40.09	16.030
5510	39.93	16.010
5590	40.29	16.050
5670	39.97	16.020
5710	39.55	15.970

802.11ax_HE40_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.88	16.010
5230	42.22	16.260
5270	40.77	16.100
5310	40.08	16.030
5510	39.52	15.970
5590	40.13	16.030
5670	40.77	16.100
5710	35.06	15.450

802.11ax_HE40_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	4.10	6.130
5755	37.83	15.780
5795	37.90	15.790

802.11ax_HE40_SU_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	4.02	6.040
5755	37.19	15.700
5795	37.90	15.790

802.11ax_HE40_SU_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.07	< 5250
5755	5736.11	> 5725

802.11ax_HE40_SU_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.06	< 5250
5755	5736.17	> 5725

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802.11ax_HE80_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.16	19.090
5290	82.57	19.170
5530	81.58	19.120
5610	81.18	19.090
5690	81.93	19.130

802.11ax_HE80_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.04	19.140
5290	81.76	19.130
5530	80.94	19.080
5610	81.56	19.110
5690	76.80	18.850

802.11ax_HE80_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	4.01	6.030
5775	75.83	18.800

802.11ax_HE80_SU_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	4.02	6.040
5775	76.01	18.810

802.11ax_HE80_SU_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.67	< 5250
5775	5736.25	> 5725

802.11ax_HE80_SU_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.59	< 5250
5775	5736.40	> 5725

802.11ax_HE160_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	166.1	22.200
5570	164.3	22.160

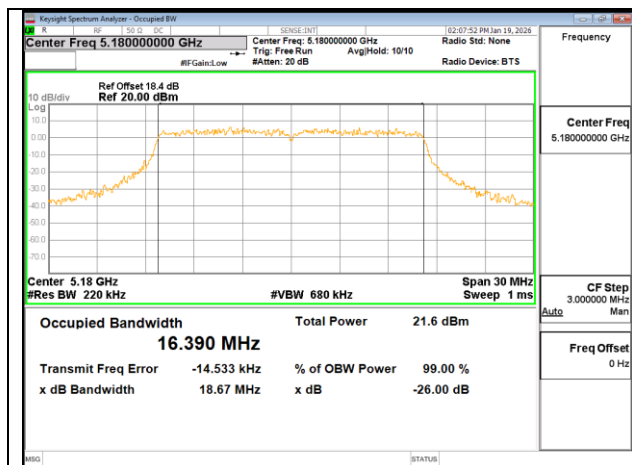
802.11ax_HE160_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.2	22.150
5570	164.3	22.160

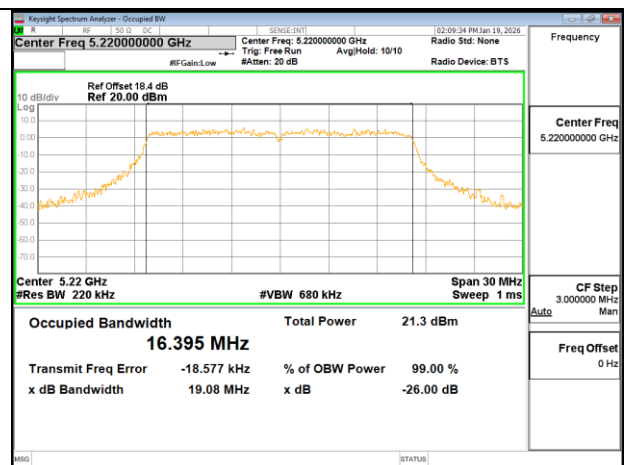
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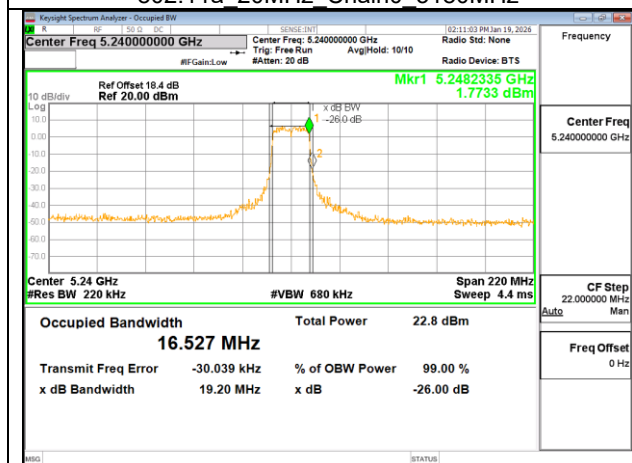
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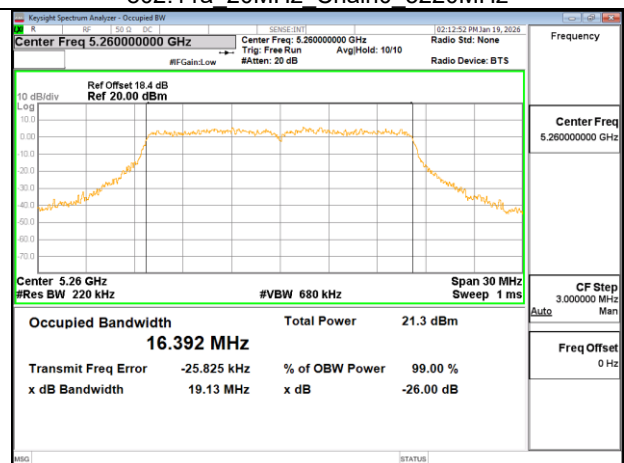
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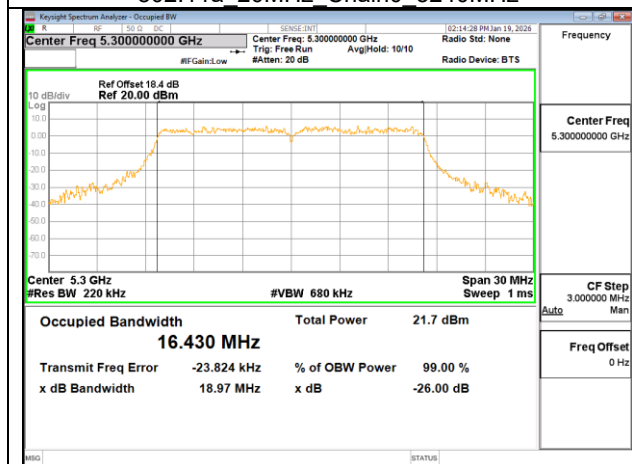
802.11a 20MHz Chain0 5220MHz



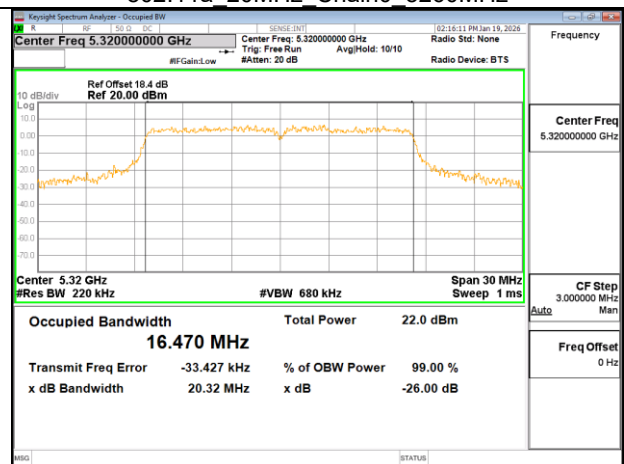
802.11a 20MHz Chain0 5240MHz



802.11a 20MHz Chain0 5260MHz



802.11a 20MHz Chain0 5300MHz



802.11a 20MHz Chain0 5320MHz

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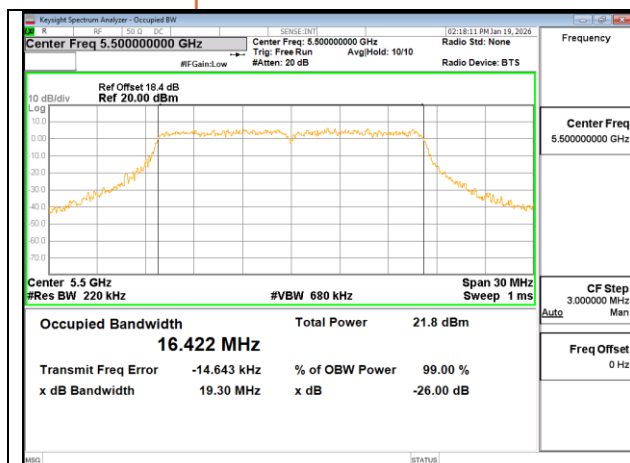
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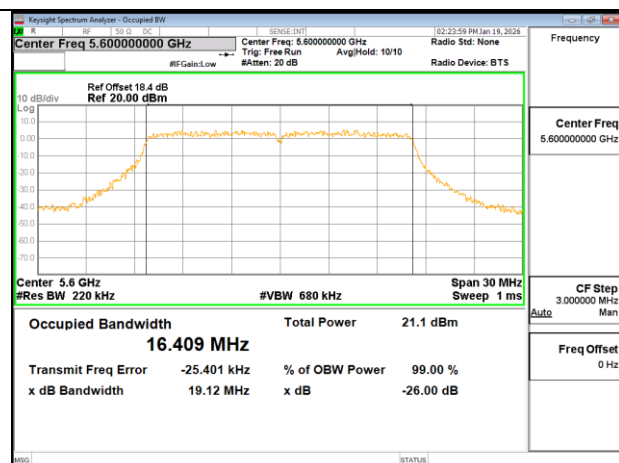
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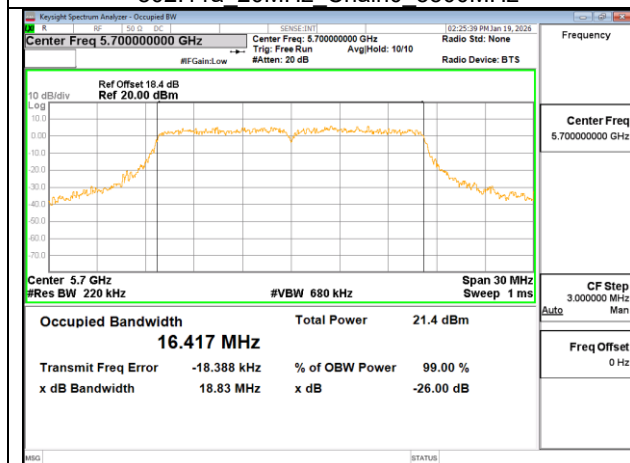
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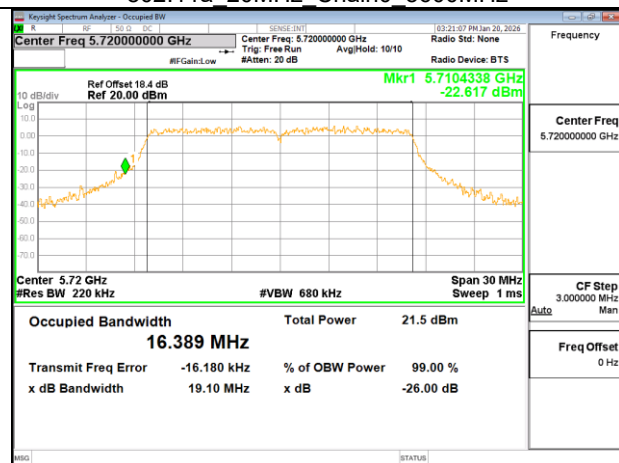
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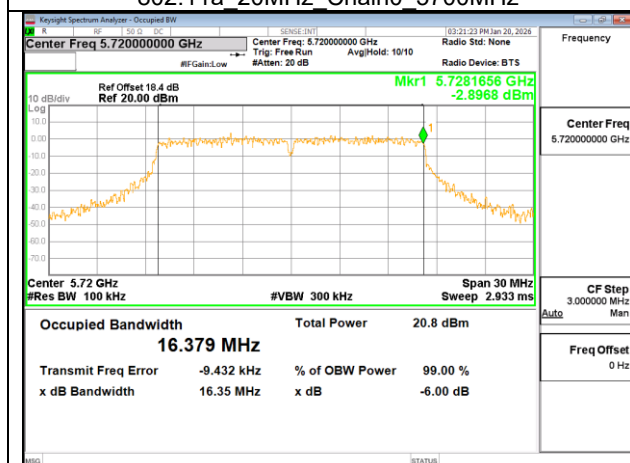
802.11a 20MHz Chain0 5600MHz



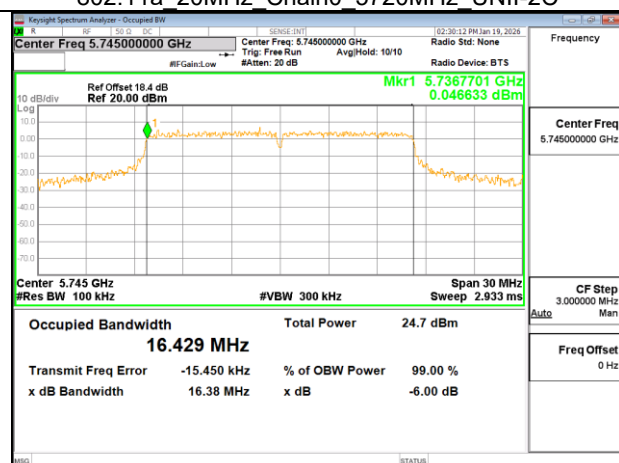
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802.11a 20MHz Chain0 5720MHz UNII-2C



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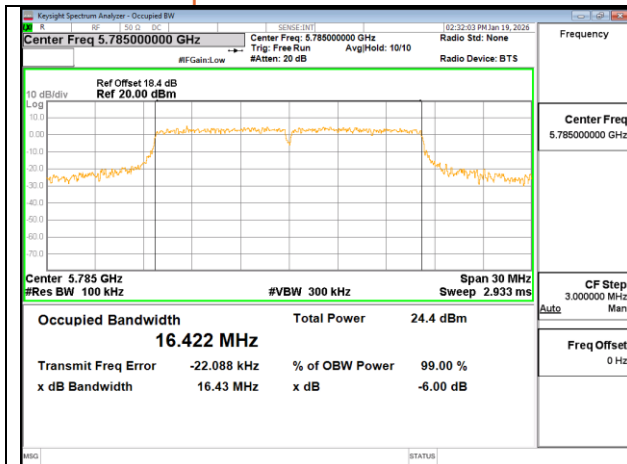


802.11a 20MHz Chain0 5745MHz

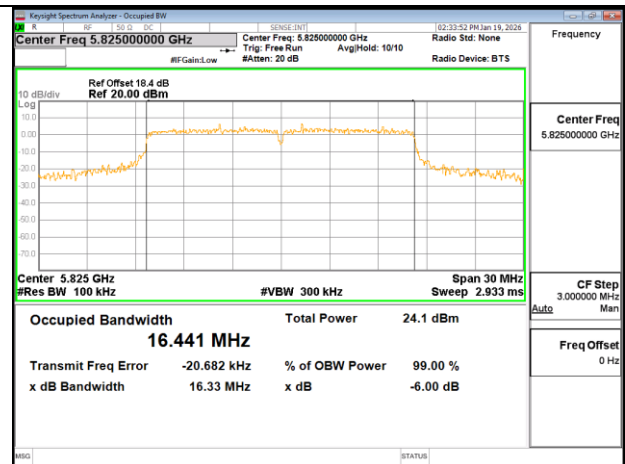
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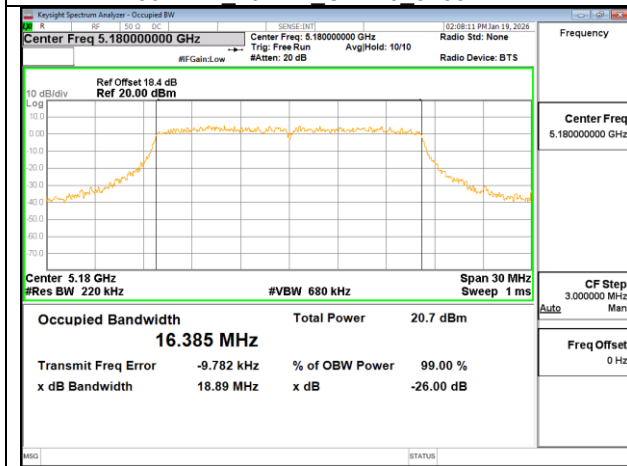
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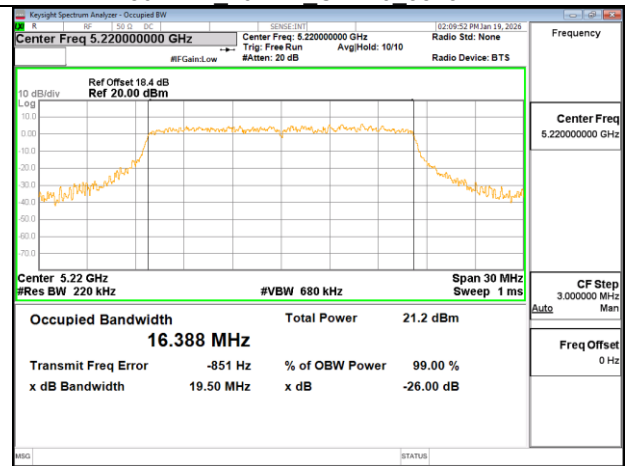
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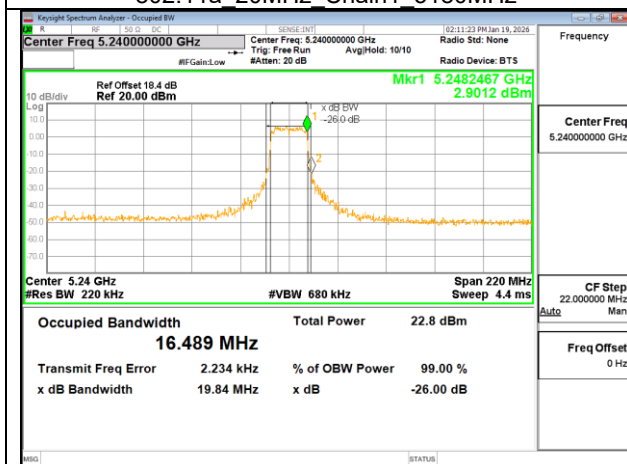
802.11a 20MHz Chain0 5825MHz



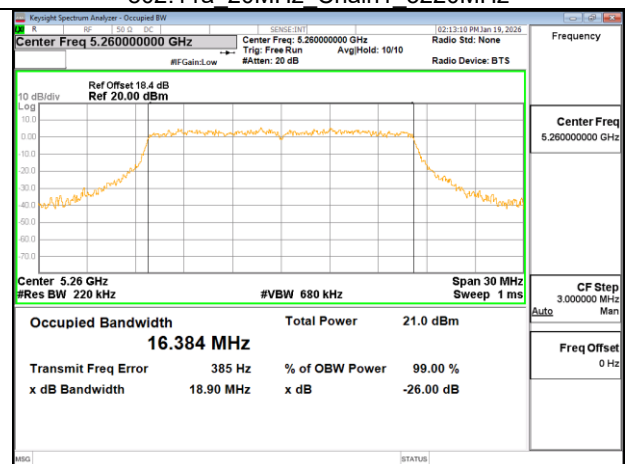
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802.11a 20MHz Chain1 5220MHz



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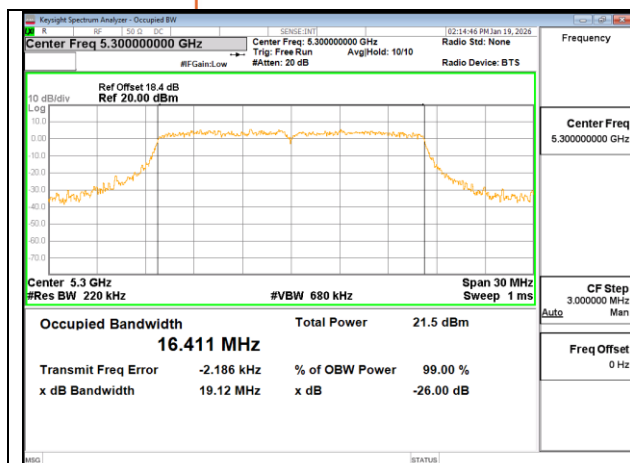


802.11a 20MHz Chain1 5260MHz

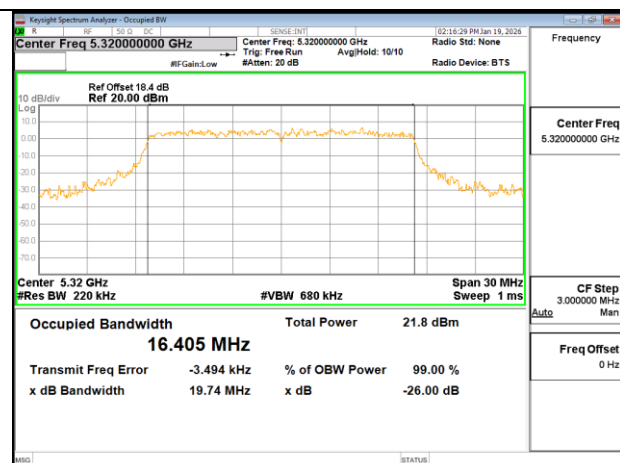
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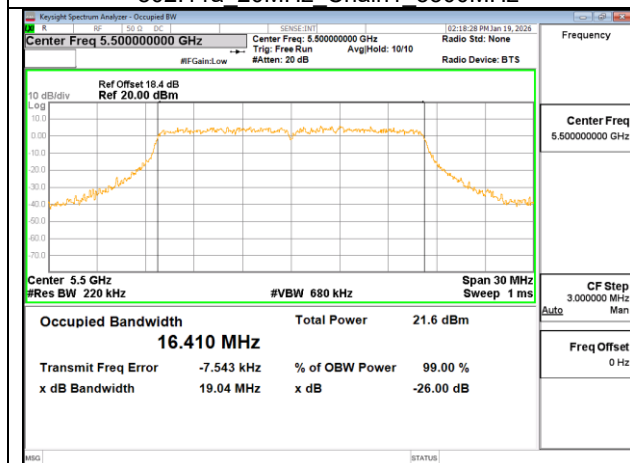
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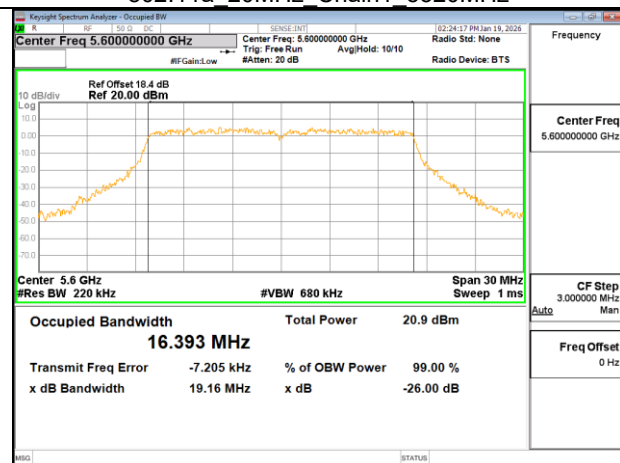
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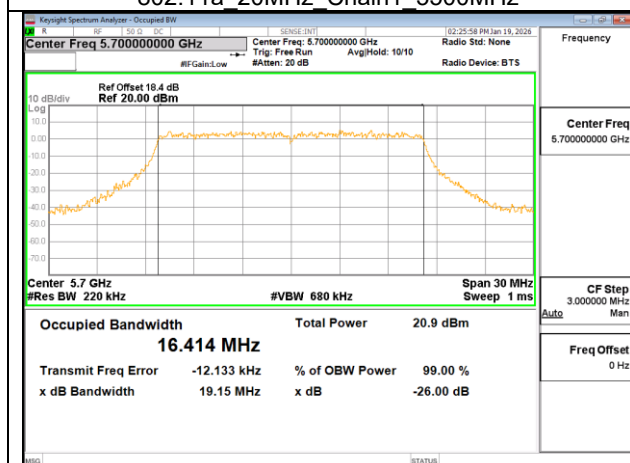
802.11a 20MHz Chain1 5320MHz



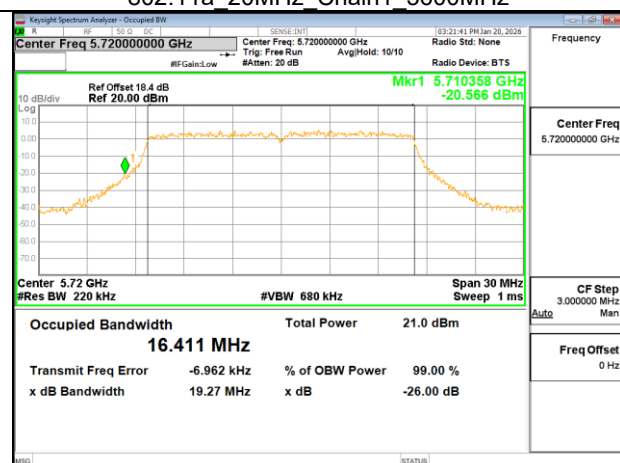
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802.11a 20MHz Chain1 5600MHz



802.11a 20MHz Chain1 5700MHz

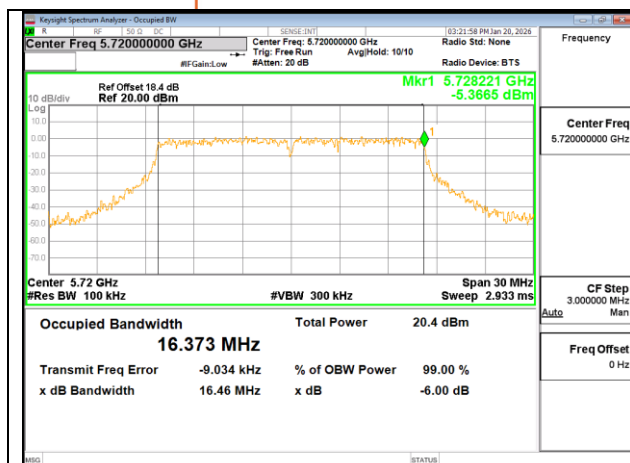


802.11a 20MHz Chain1 5720MHz UNII-2C

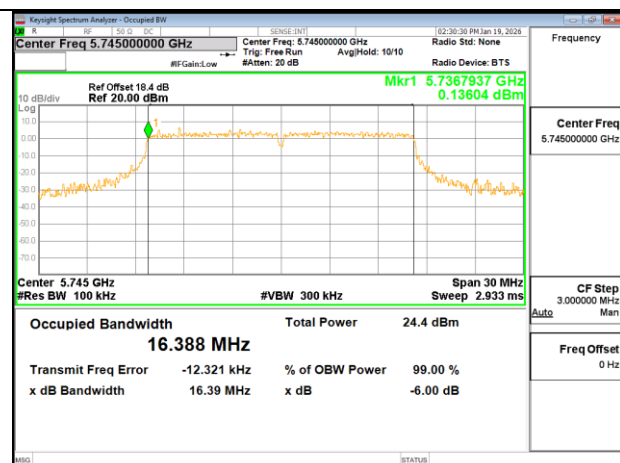
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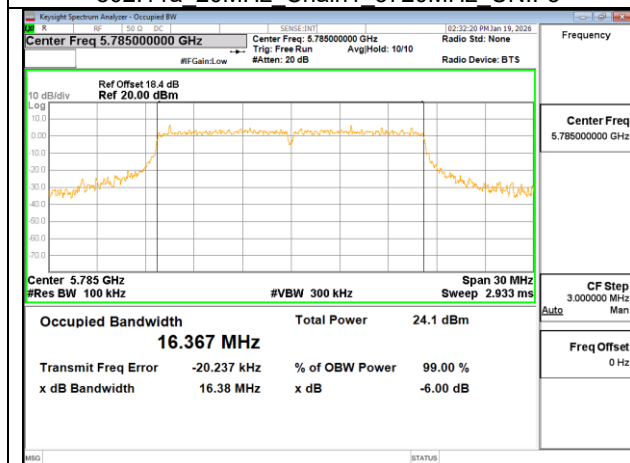
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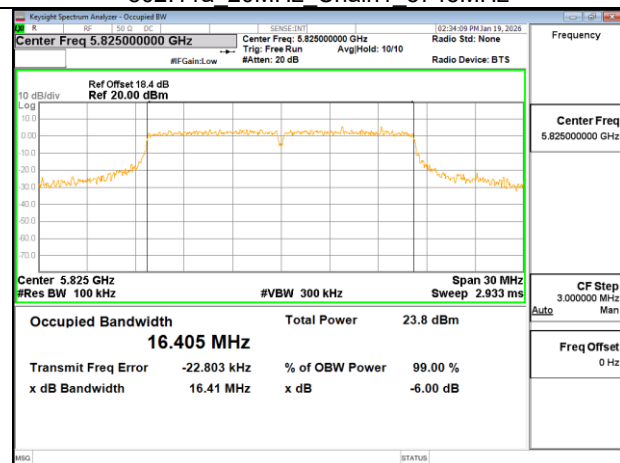
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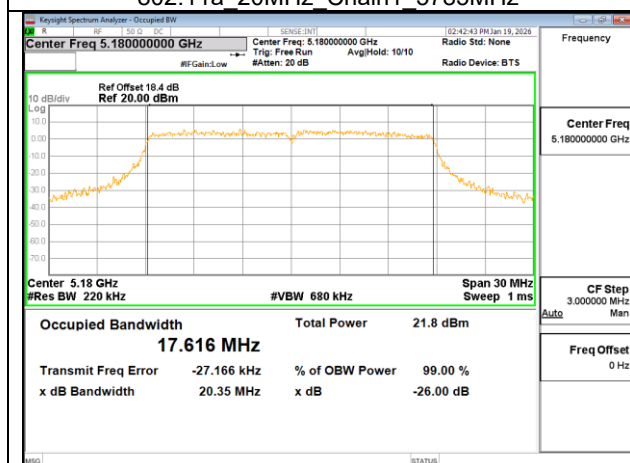
802.11a 20MHz Chain1 5745MHz



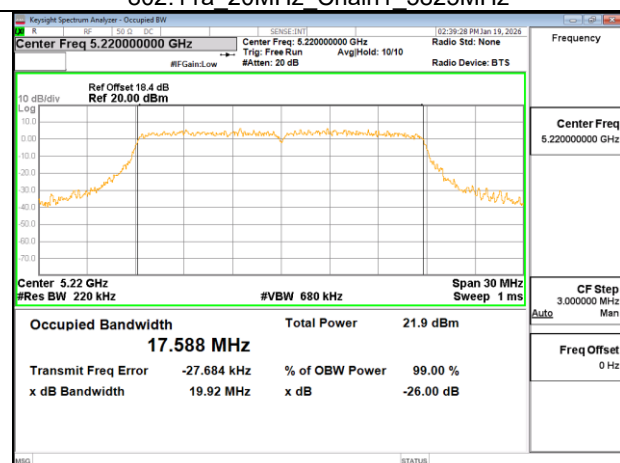
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802.11a 20MHz Chain1 5825MHz



802.11n 20MHz Chain0 5180MHz

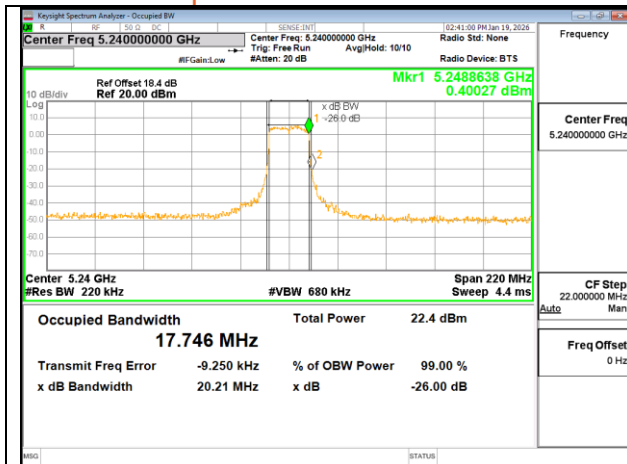


802.11n 20MHz Chain0 5220MHz

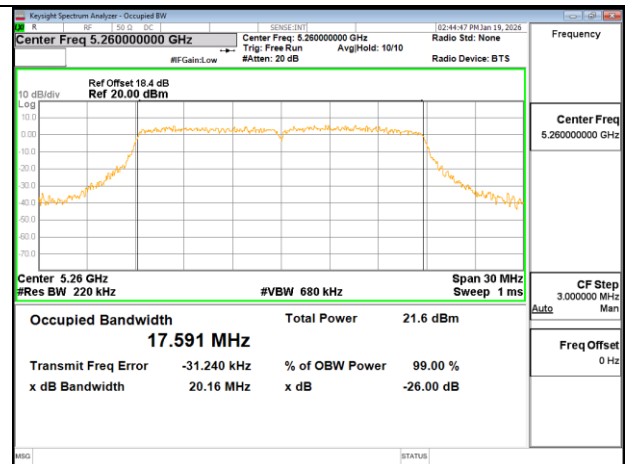
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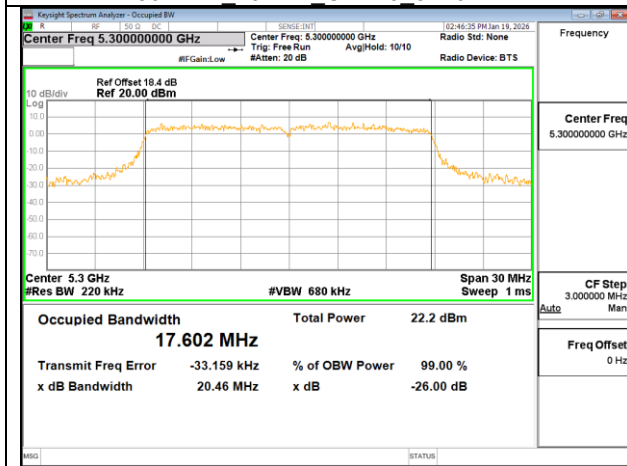
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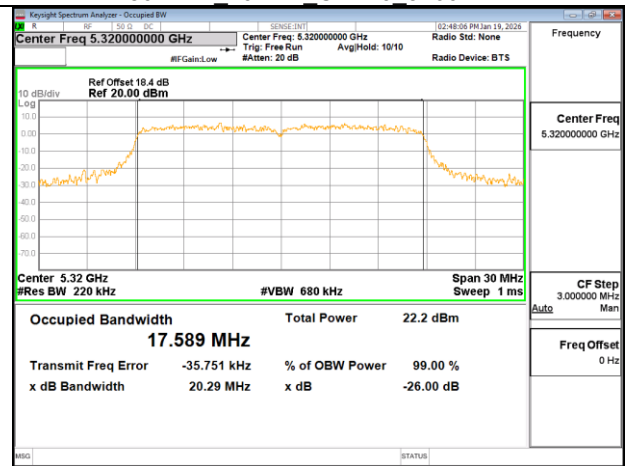
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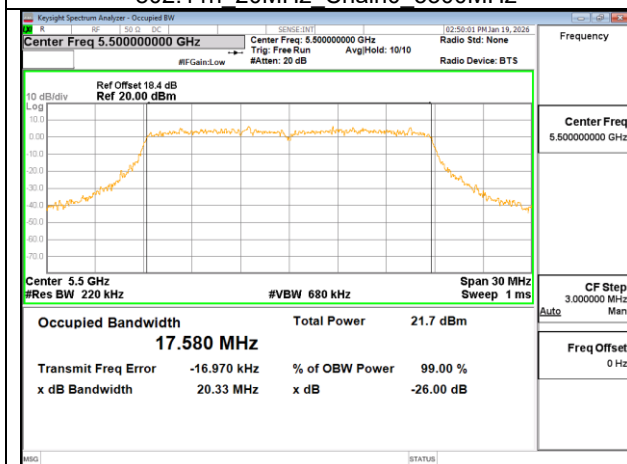
802.11n 20MHz Chain0 5260MHz



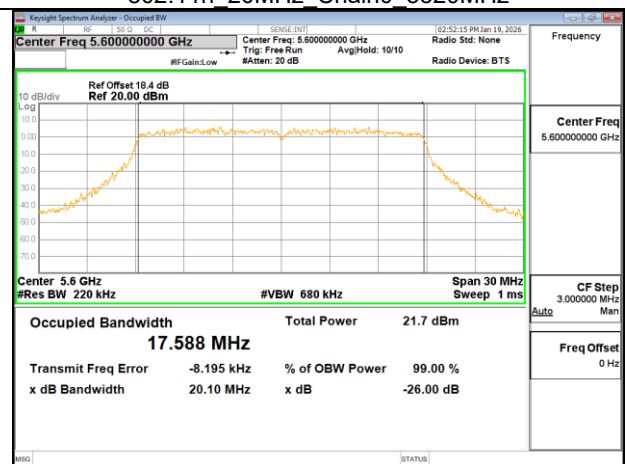
802.11n 20MHz Chain0 5300MHz



802.11n 20MHz Chain0 5320MHz



802.11n 20MHz Chain0 5500MHz

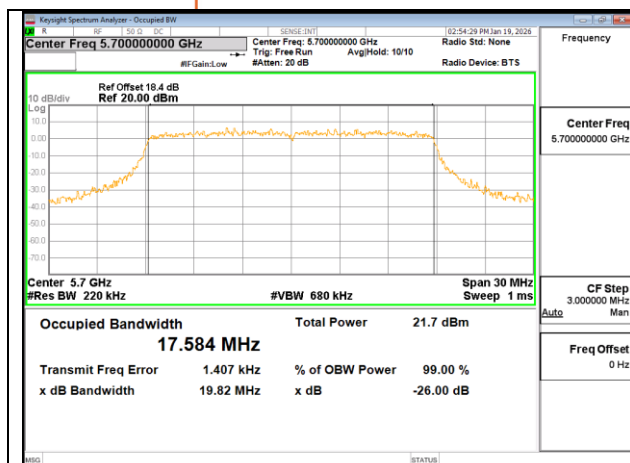


802.11n 20MHz Chain0 5600MHz

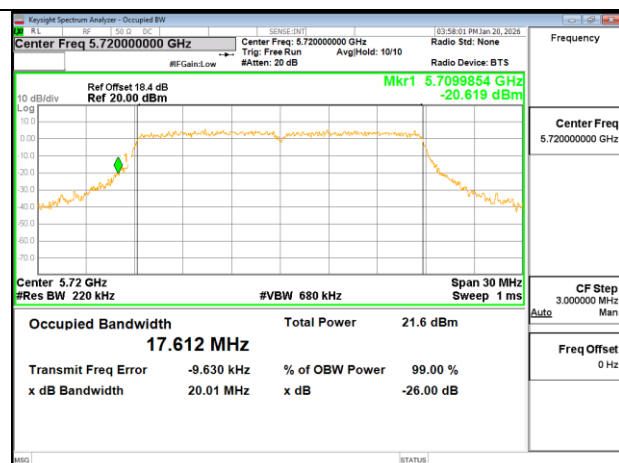
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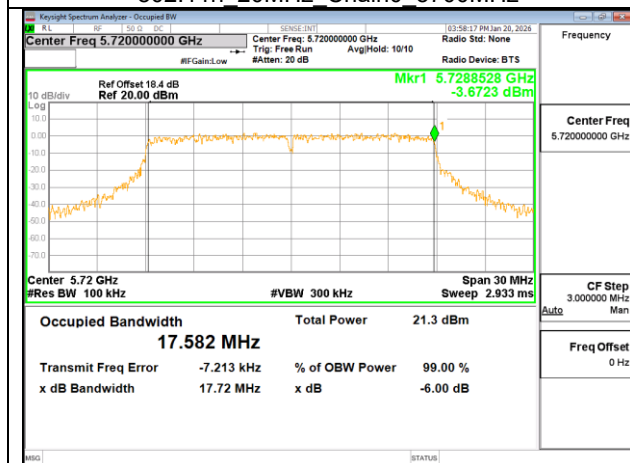
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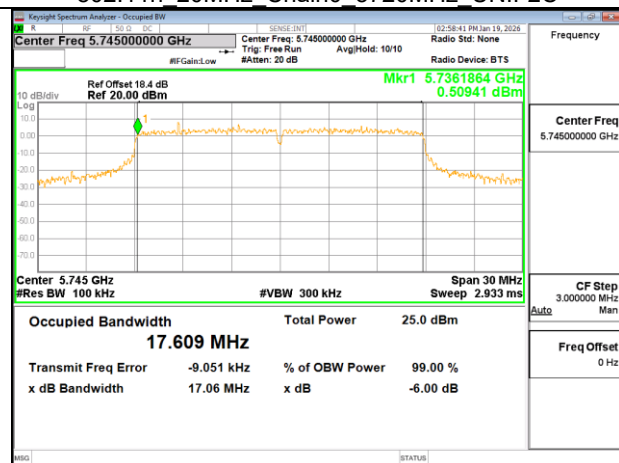
802.11n 20MHz Chain0_5700MHz



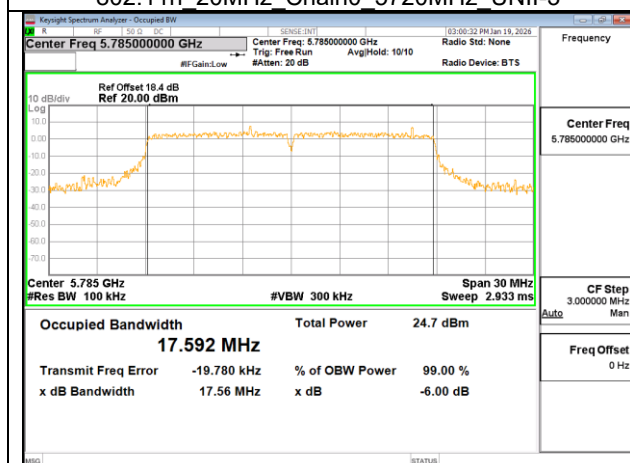
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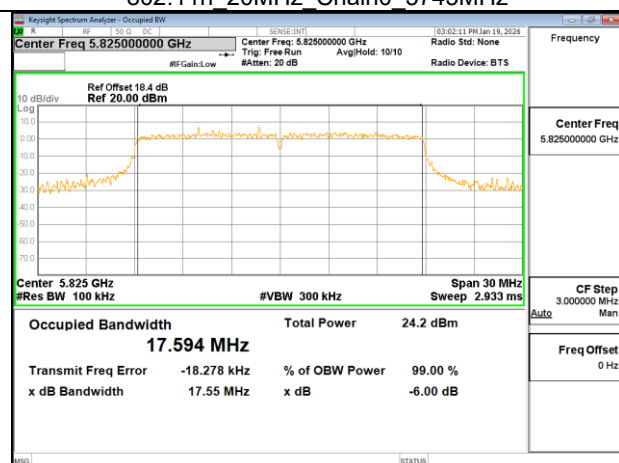
802.11n 20MHz Chain0_5720MHz UNII-3



802.11n 20MHz Chain0_5745MHz



802.11n 20MHz Chain0_5785MHz

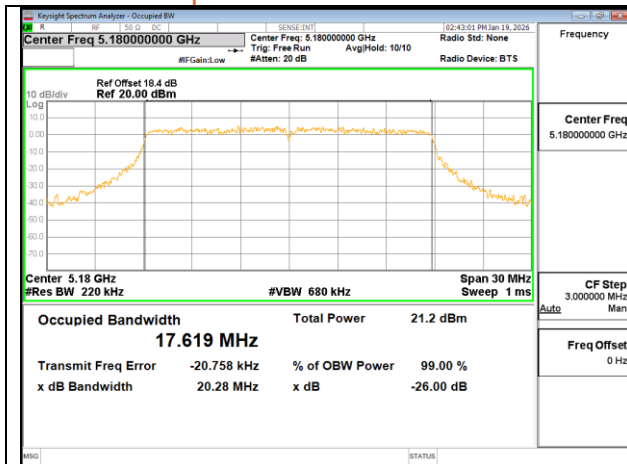


802.11n 20MHz Chain0_5825MHz

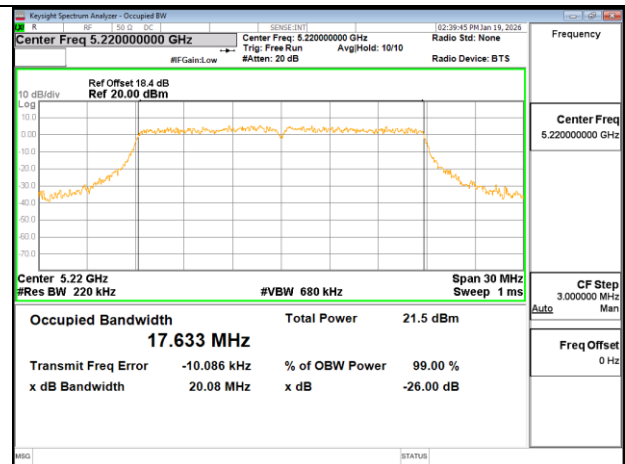
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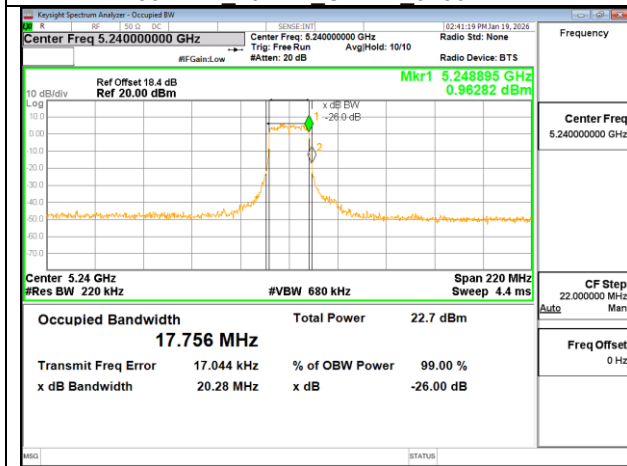
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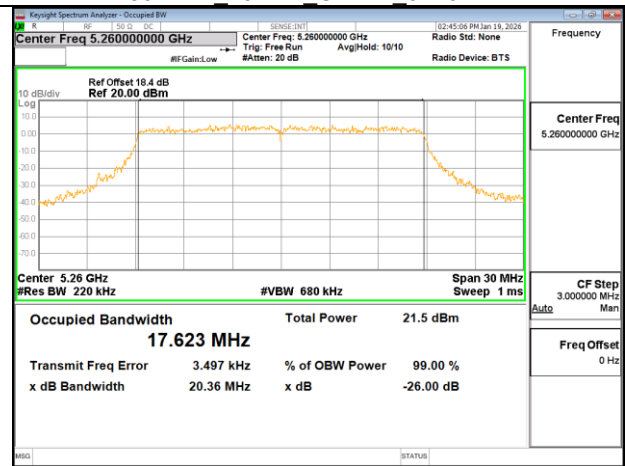
802.11n 20MHz Chain1 5180MHz



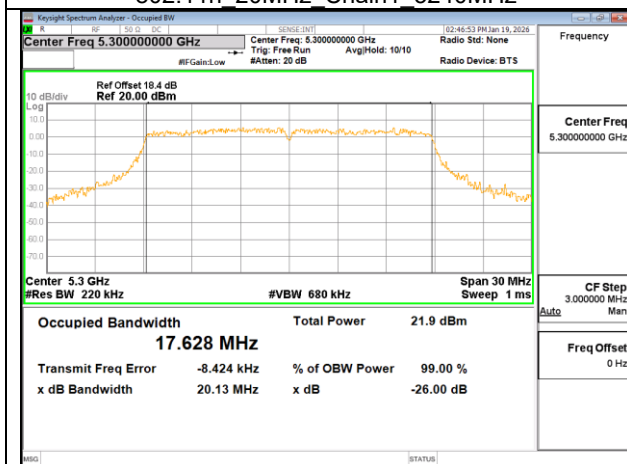
802.11n 20MHz Chain1 5220MHz



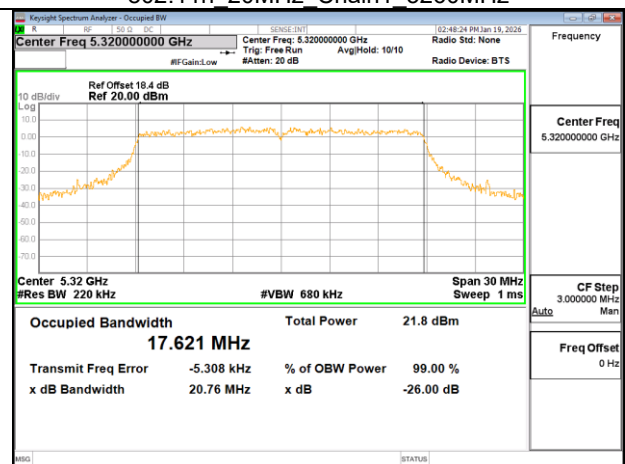
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802.11n 20MHz Chain1 5260MHz



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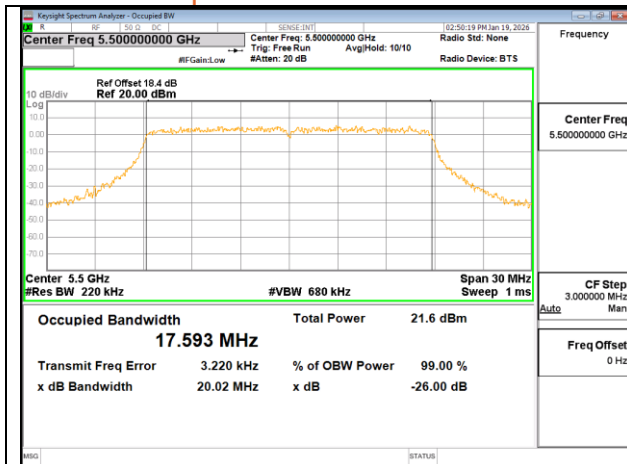


802.11n 20MHz Chain1 5320MHz

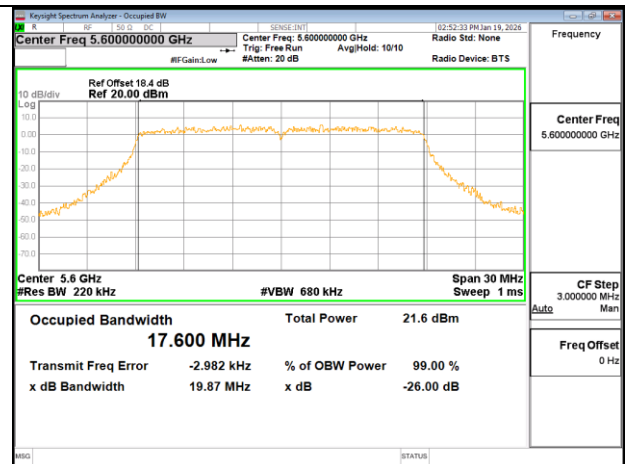
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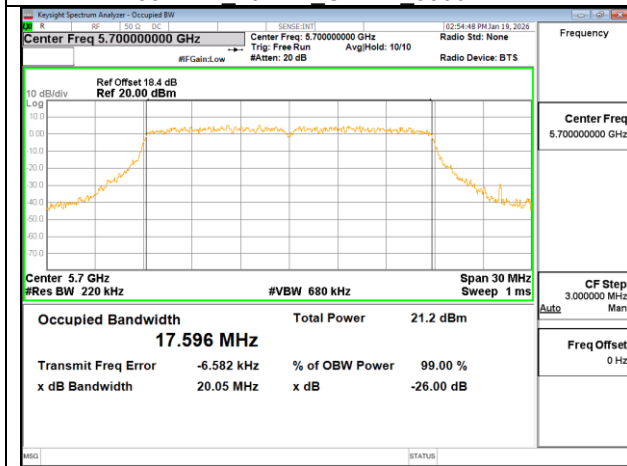
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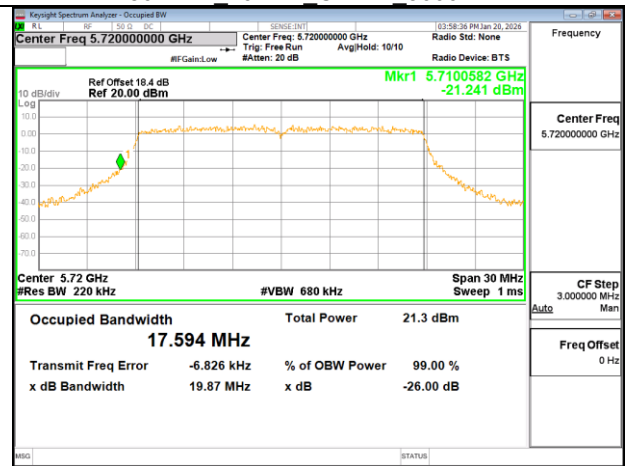
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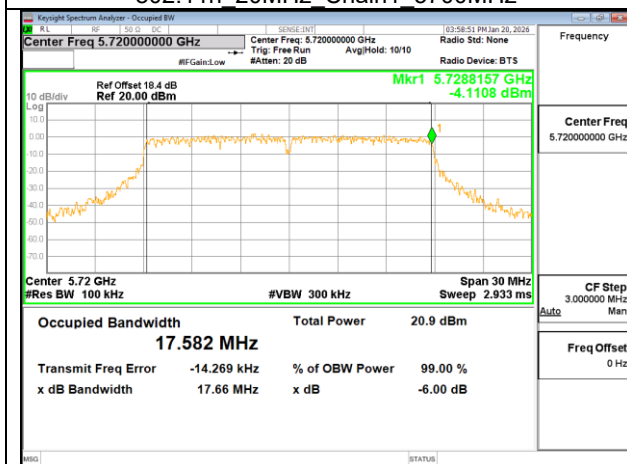
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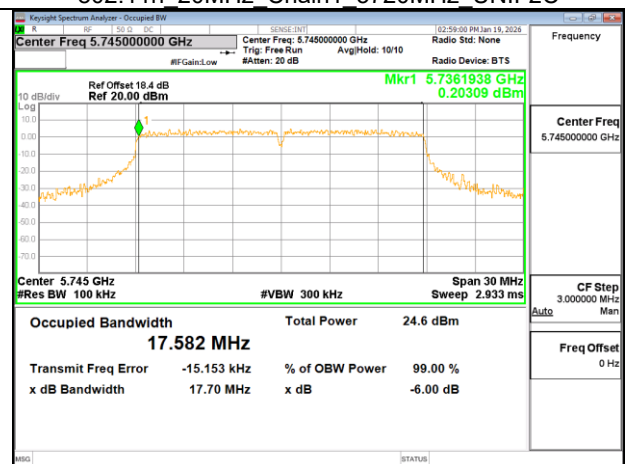
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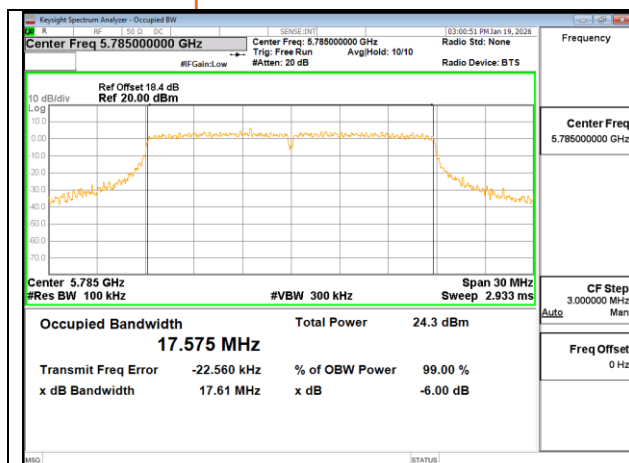


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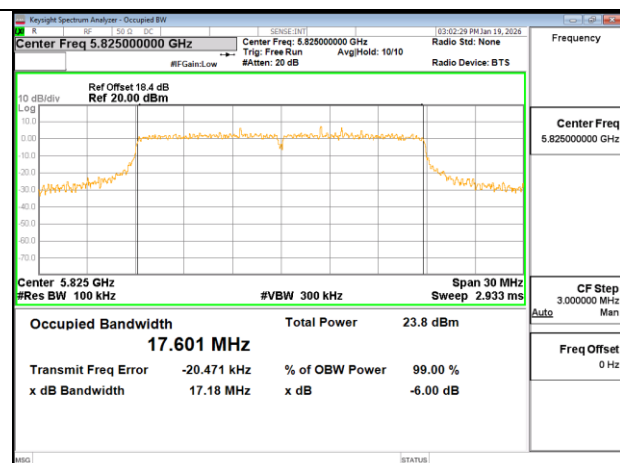
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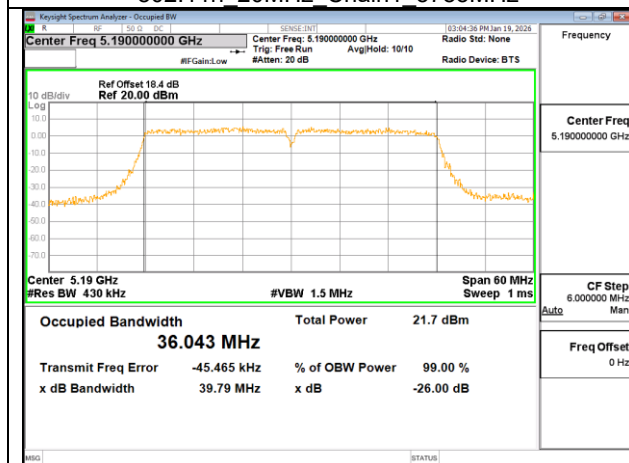
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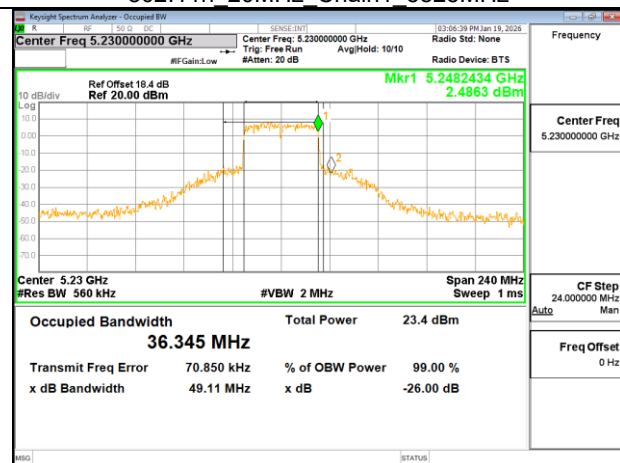
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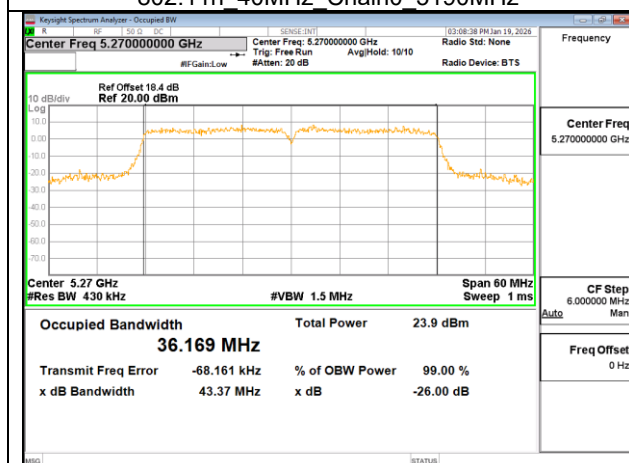
802.11n 20MHz Chain1 5825MHz



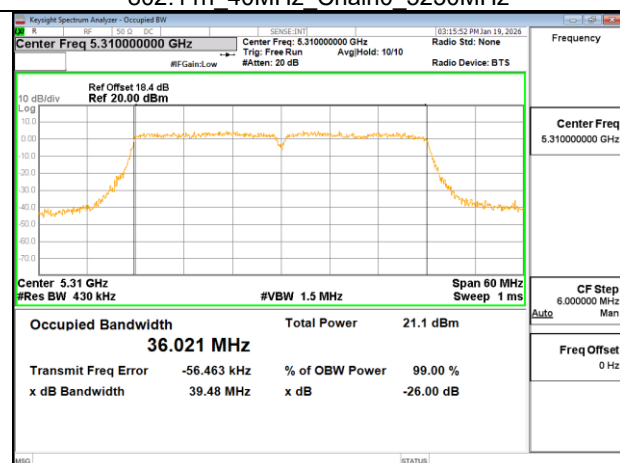
802.11n 40MHz Chain0 5190MHz



802.11n 40MHz Chain0 5230MHz



802.11n 40MHz Chain0 5270MHz



802.11n 40MHz Chain0 5310MHz

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