

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Notebook Computer
Applicant: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
22181, Taiwan (R.O.C)
Manufacturer: LENGDA(XIAMEN) COMPANY LIMITED
Bld.9L-1, No.14 Rd. Haijing E, Xiamen Area of China (Fujian)
Free Trade Zone (Duty Free Port of Haicang)
Brand Name: 
Model No./ISED HMN: N25LD4
ISED HVIN: AG15-52P
ISED PMN: AG15-52P
Report Number: TERF2511003601E2
FCC ID HLZN25LD4
IC: 1754F-N25LD4
Date of EUT Received: November 3, 2025
Date of Test: November 3, 2025 ~ November 21, 2025
Issue Date: December 4, 2025

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 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
TERF2511003601E2	00	Original	December 4, 2025	Yuri Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Notebook Computer
Brand Name	<i>acer</i>
Model No.	N25LD4
ISED HVIN	AG15-52P
Firmware Version	mp_v2.0.29
EUT Series No.	NW0000000B539001EA6B01
Power Supply	11.55 Vdc
Test Software (Name/Version)	AX Series MP Toolkit/v2.0.29

1.2 RF Specification

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK
	for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK
Transition Rate:	for OFDMA in 802.11ax
	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 72.2 Mbps
	802.11 n_HT40: up to 150 Mbps
	802.11 ac_VHT20: up to 86.7 Mbps
	802.11 ac_VHT40: up to 200 Mbps
	802.11 ac_VHT80: up to 433.3 Mbps
	802.11 ax_HE20: up to 143.4 Mbps
	802.11 ax_HE40: up to 286.8 Mbps
	802.11 ax_HE80: up to 600.5 Mbps

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1.3 Antenna Designation

Ant. Type	Ant 1 / Ant 2	Freq (MHz) / Peak Gain (dBi)
PIFA	Ant 1 (Aux)	5150~5250: 2.61 5250~5350: 2.61 5470~5725: 2.8 5725~5850: 2.49
PIFA	Ant 2 (Main)	5150~5250: 2.53 5250~5350: 2.67 5470~5725: 2.44 5725~5850: 2.77

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.

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1.4 FCC Rated Power

Ant1

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	Avg	18.26 dBm	OFDM
	5260~5320	4	Avg	18.59 dBm	OFDM
	5500~5700	12	Avg	18.60 dBm	OFDM
	5745-5825	5	Avg	18.43 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	Avg	16.88 dBm	OFDM
	5270~5310	2	Avg	16.83 dBm	OFDM
	5510~5670	6	Avg	17.40 dBm	OFDM
	5755-5795	2	Avg	16.72 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	Avg	13.02 dBm	OFDMA
	5290	1	Avg	13.59 dBm	OFDMA
	5530~5610	3	Avg	13.16 dBm	OFDM
	5775	1	Avg	15.43 dBm	OFDM

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Ant2

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	Avg	17.88 dBm	OFDM
	5260~5320	4	Avg	18.48 dBm	OFDM
	5500~5700	12	Avg	17.63 dBm	OFDM
	5745~5825	5	Avg	17.97 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	Avg	17.05 dBm	OFDM
	5270~5310	2	Avg	16.12 dBm	OFDM
	5510~5670	6	Avg	17.35 dBm	OFDM
	5755~5795	2	Avg	17.40 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	Avg	12.83 dBm	OFDMA
	5290	1	Avg	13.79 dBm	OFDMA
	5530~5610	3	Avg	13.40 dBm	OFDMA
	5775	1	Avg	14.70 dBm	OFDM

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1.5 ISED Rated Power

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WLAN 5 GHz for ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	EIRP	18.54	dBm	OFDM
	5260~5320	4	Avg	18.59	dBm	OFDM
	5500~5700	11	Avg	18.60	dBm	OFDM
	5745~5825	5	Avg	18.43	dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	EIRP	19.49	dBm	OFDM
	5270~5310	2	Avg	16.83	dBm	OFDM
	5510~5670	5	Avg	17.40	dBm	OFDM
	5755~5795	2	Avg	16.72	dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	EIRP	15.63	dBm	OFDMA
	5290	1	Avg	13.59	dBm	OFDMA
	5530~5610	2	Avg	13.16	dBm	OFDM
	5775	1	Avg	15.43	dBm	OFDM

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WLAN 5 GHz for ISCED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	EIRP	18.30	dBm	OFDM
	5260~5320	4	Avg	18.48	dBm	OFDM
	5500~5700	11	Avg	17.63	dBm	OFDM
	5745~5825	5	Avg	17.97	dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	EIRP	19.58	dBm	OFDM
	5270~5310	2	Avg	16.12	dBm	OFDM
	5510~5670	5	Avg	17.35	dBm	OFDM
	5755~5795	2	Avg	17.40	dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	EIRP	15.36	dBm	OFDMA
	5290	1	Avg	13.79	dBm	OFDMA
	5530~5610	2	Avg	13.40	dBm	OFDMA
	5775	1	Avg	14.70	dBm	OFDM

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1.6 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	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	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
155	5775 MHz	-	-	-	-	-	-

1.7 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 below modes.

Modulation		Transmission Chain							Single Transmission Spatial	Multiple Transmission Spatial	
V	802.11 a	V	Ant1						V	1TX	1TX
V	802.11 n	V	Ant1						V	1TX	1TX
V	802.11 ac	V	Ant1						V	1TX	1TX
V	802.11 ax	V	Ant1						V	1TX	1TX
	802.11 be		Ant1							1TX	1TX

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.

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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	Ant1
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ant1
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ant1
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,134			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	Ant1
	5290	58	58			
	5530	106	106			
	5775	155	155			
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ant1
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ant1
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,134			
	5755~5795	151 to 159	151,159			
802.11ax_HE80	5210	42	42	OFDM	MCS0	Ant1
	5290	58	58			
	5530	106	106			
	5775	155	155			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	RU CONFIGUR ATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL			(Mbps)	PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	242 26/0,26/8 52/37,52/40 106/53,106/ 54	MCS0	Ant1
	5260~5320	52 to 64	52,60,64				
	5500~5700	100 to 140	100,116,140				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	484 242/61,242/ 62	MCS0	Ant1
	5270~5310	54 to 62	54,62				
	5510~5670	102 to 134	102,134				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	996 484/65,484/ 66	MCS0	Ant1
	5290	58	58				
	5530	106	106				
	5775	155	155				

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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE	ANTENNA
					(Mbps)	PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ant2
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ant2
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ant2
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,134			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	Ant2
	5290	58	58			
	5530	106	106			
	5775	155	155			
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ant2
	5260~5320	52 to 64	52,60,64			
	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ant2
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 134	102,134			
	5755~5795	151 to 159	151,159			
802.11ax_HE80	5210	42	42	OFDM	MCS0	Ant2
	5290	58	58			
	5530	106	106			
	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	242 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Ant2
	5260~5320	52 to 64	52,60,64				
	5500~5700	100 to 140	100,116,140				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	484 242/61,242/62	MCS0	Ant2
	5270~5310	54 to 62	54,62				
	5510~5670	102 to 134	102,134				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	996 484/65,484/66	MCS0	Ant2
	5290	58	58				
	5530	106	106				
	5775	155	155				

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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	ANT1
	5260~5320	52 to 64	60	OFDM		
	5500~5720	100 to 144	116	OFDM		
	5745~5825	149 to 165	157	OFDM		

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	ANT1
	5260~5320	52 to 64	52,60,64	OFDM		
	5500~5700	100 to 140	100,116,140	OFDM		
	5745~5825	149 to 165	149,165	OFDM		
802.11n20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ANT1
	5260~5320	52 to 64	52,60,64	OFDM		
	5500~5700	100 to 140	100,116,140	OFDM		
	5745~5825	149 to 165	149,157,165	OFDM		
802.11n40	5190~5230	38 to 46	38,46	OFDM	MCS0	ANT1
	5270~5310	54 to 62	54,62	OFDM		
	5510~5670	102 to 134	102,134	OFDM		
	5755~5795	151 to 159	151,159	OFDM		
802.11ac80	5210	42	42	OFDM	MCS0	ANT1
	5290	58	58	OFDM		
	5530~5610	106 to 122	106	OFDM		
	5775	155	155	OFDM		

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	RU CONFIGURATION	ANTENNA PORT
802.11ax20	5180~5240	36 to 48	36,44,48	OFDMA	MCS0	full,26/0,52/37,106/53,26/8,52/40,106/54	ANT1
	5260~5320	52 to 64	52,60,64	OFDMA			
	5500~5700	100 to 140	100,116,140	OFDMA			
	5745~5825	149 to 165	149,157,165	OFDMA			
802.11ax40	5190~5230	38 to 46	38,46	OFDMA	MCS0	full,242/61,242/62	ANT1
	5270~5310	54 to 62	54,62	OFDMA			
	5510~5670	102 to 134	102,134	OFDMA			
	5755~5795	151 to 159	151,159	OFDMA			
802.11ax80	5210	42	42	OFDMA	MCS0	full,484/65,484/66	ANT1
	5290	58	58	OFDMA			
	5530~5610	106 to 122	106	OFDMA			
	5775	155	155	OFDMA			

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	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 §7.3.4.2	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §7.3.1.2 RSS-247 §7.3.2.2 RSS-247 §7.3.3.2 RSS-247 §7.3.4.3	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §7.3.1.2 RSS-247 §7.3.2.2 RSS-247 §7.3.3.2 RSS-247 §7.3.4.3	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-Gen 8.10 RSS-247 §7.3.1.3 RSS-247 §7.3.2.3&7.3.2.4 RSS-247 §7.3.3.3 RSS-247 §7.3.4.4	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §7.3.7 a	Transmission in case of Absence of Information	Compliant
§15.203	N/A	Antenna Requirement	Compliant

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart E §15.407
2. FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
3. ISED RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)
4. ISED RSS-247 issue 4 July 2025
5. ANSI C63.10:2020
6. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 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
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 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

Test Condition	Test Site name	Test Engineer	Test Environment (T&H)	Test Date
Conducted	Conducted E	Henry Chiang	21.2~23.5°C / 67~63%	2025/11/03 ~ 2025/11/21

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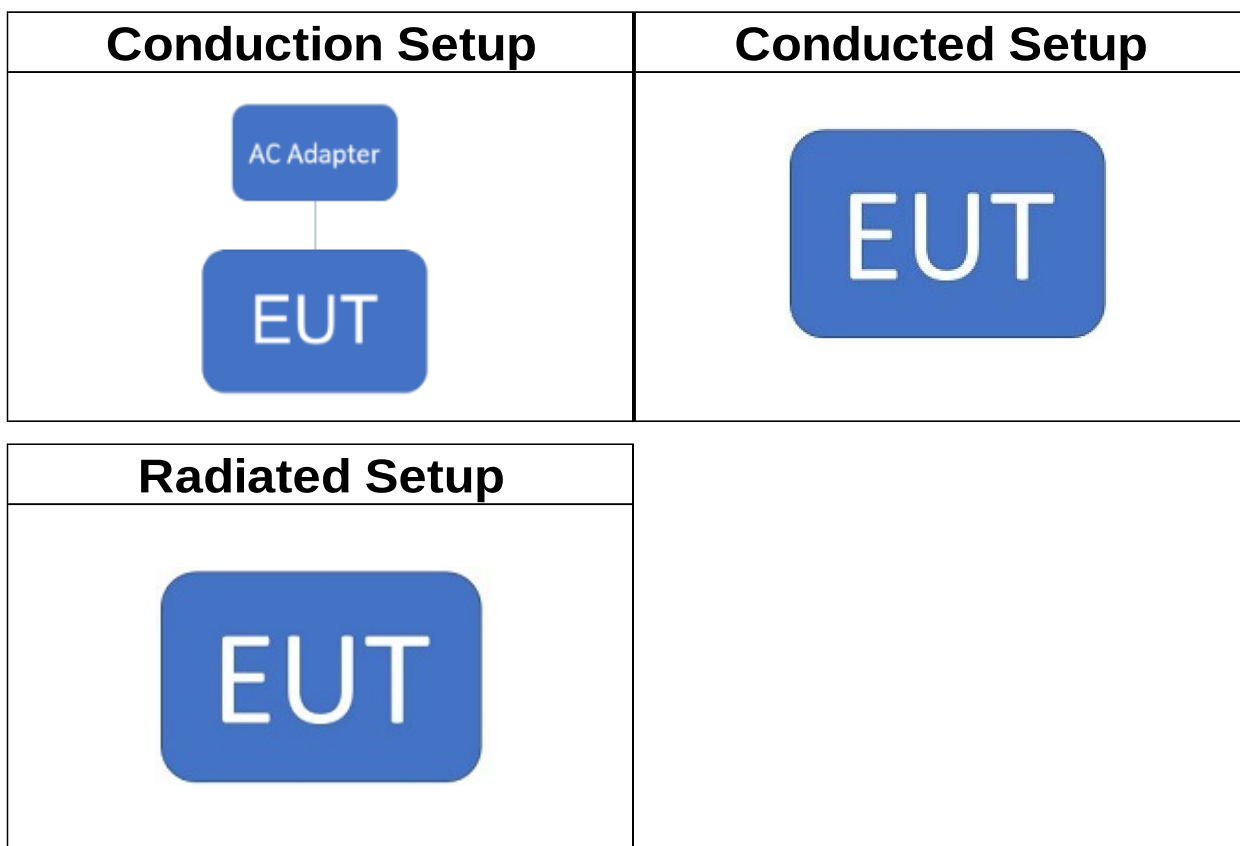
3 CONTROL UNIT(S) AND PERIPHERAL(S)

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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Chicony	A20-065N3A	A56-02-590001- 250907320031	N/A	N/A

3.3.2 Conducted Setup

N/A

3.3.3 Radiated Setup

N/A

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4 TEST INSTRUMENT

4.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

4.2 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF06	11/14/2024	11/13/2025
Attenuator	Marvelous	MVE2213-10	RF06	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF157	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF157	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1326001	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315048	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315049	07/29/2025	07/28/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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4.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM- NM- 8000+EMCCFD400- NM-NM- 5000+SUCOFLEX100 +EMC104-SM-SM- 2000+EMC104-SM- SM-8000+EMC104- SM-SM-5000	210216+210217+841 03701/15+160105+2 10217+210220	11/13/2025	11/12/2026
High Pass Filter	WI	WHKX6.0/18G	RF166	11/13/2025	11/12/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWI-56-0019	RF156	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/23/2025	06/22/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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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.

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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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RSS-247				
Select	EUT CATEGORY	Conducted Output Power	EIRP	TPC
U-NII-1 (5150~5250 MHz)				
	OEM devices in- stalled in vehicles	N/A	30 mW or $1.76 + 10 \log_{10} B$	EIRP >15mW, at least 3dB below 30mW EIRP
V	Other device	N/A	200 mW or $10 + 10 \log_{10} B$ dBm	N/A
U-NII-2A (5250~5350 MHz)				
	OEM devices in- stalled in vehicles	N/A	30 mW or $1.76 + 10 \log_{10} B$	EIRP >15mW, at least 3dB below 30mW EIRP
	Outdoor Fixed with EIRP>200mW	N/A	-13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$ -13 -0.716 (θ -8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 -1.22 (θ -40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$ -42 dBW/MHz for $\theta > 45^\circ$	EIRP >500mW, at least 6dB below 1W EIRP
V	Other device	250 mW or $11 + 10 \log_{10} B$	1.0 W or $17 + 10 \log_{10} B$ dBm	EIRP >500mW, at least 6dB below 1W EIRP
U-NII-2C (5470~5725 MHz)				
V	All	250 mW or $11 + 10 \log_{10} B$	1.0 W or $17 + 10 \log_{10} B$ dBm	EIRP >500mW, at least 6dB below 1W EIRP
U-NII-3 (5725~5850 MHz)				
V	All	1 W	N/A	N/A
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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 directional gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.			

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RSS-247			
Select	EUT CATEGORY	EIRP Density	Power Density
U-NII-1 (5150~5250 MHz)			
	OEM devices installed in vehicles	N/A	N/A
V	Other device	10 dBm/MHz	N/A
U-NII-2A (5250~5350 MHz)			
	OEM devices installed in vehicles	N/A	N/A
	Other device	N/A	11 dBm/MHz
U-NII-2C (5470~5725 MHz)			
V	All	N/A	11 dBm/MHz
U-NII-3 (5725~5850 MHz)			
V	All	N/A	30 dBm/500kHz
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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) RSS-247 §7.3.1.3	5150~5250	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §7.3.2.3 RSS-247 §7.3.2.4	5250~5350			
15.407(b)(3) RSS-247 §7.3.3.3	5475~5725	$f \leq 5470$ $f \geq 5725$	PK: -27	PK: 68.2
15.407(b)(4)(i) RSS-247 §7.3.4.4	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 = $(E^2 \cdot d) / 30$, 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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SGS Taiwan Ltd.

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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.

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6.2 Maximum Output Power

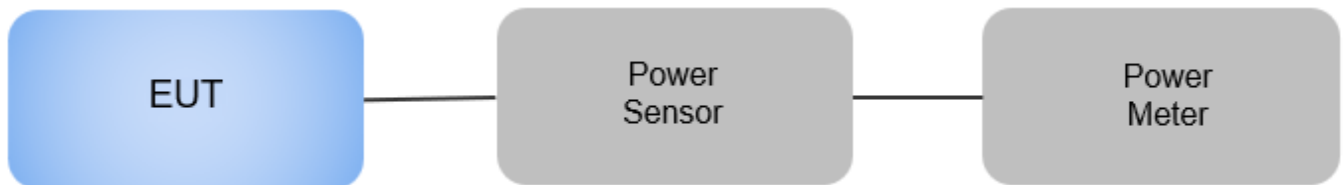
6.2.1 Duty Cycle



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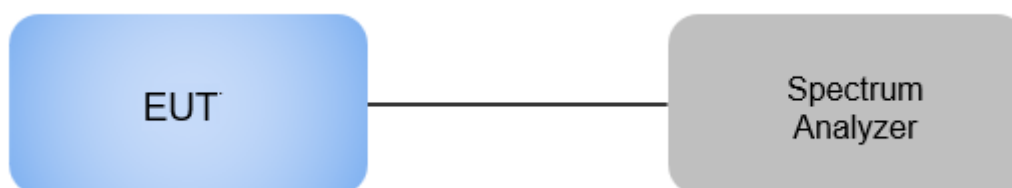
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- g. Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

Note:

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

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)
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.

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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.

6.4 Unwanted Emissions

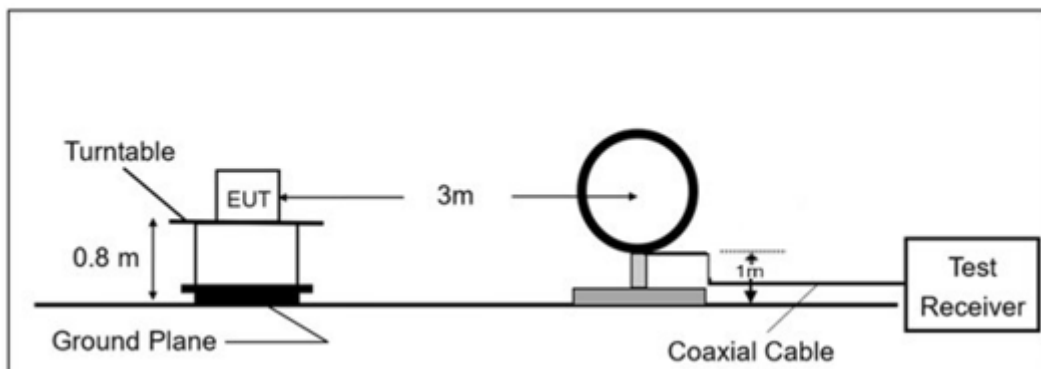
6.4.1 Radiated Emission Test Sites

For Measurements From 9 kHz To 30 MHz

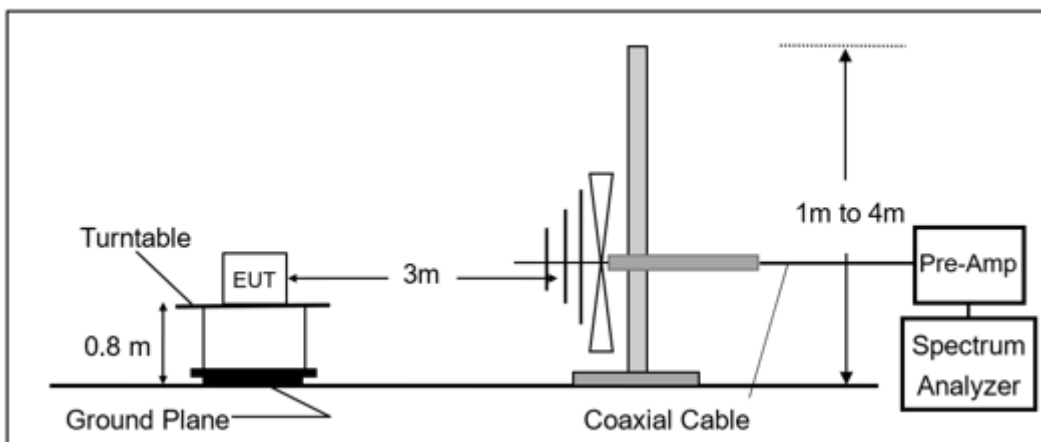
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.



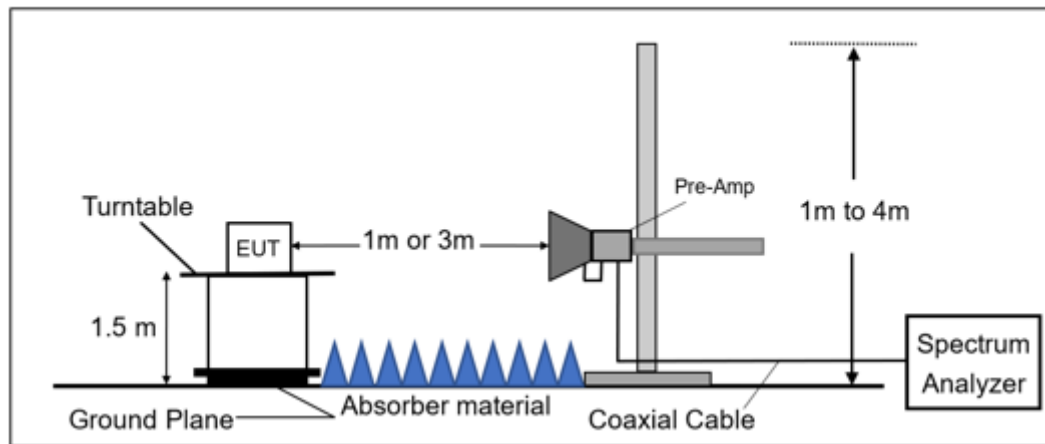
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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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.
7. For measurements above 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement:

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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.

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:

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

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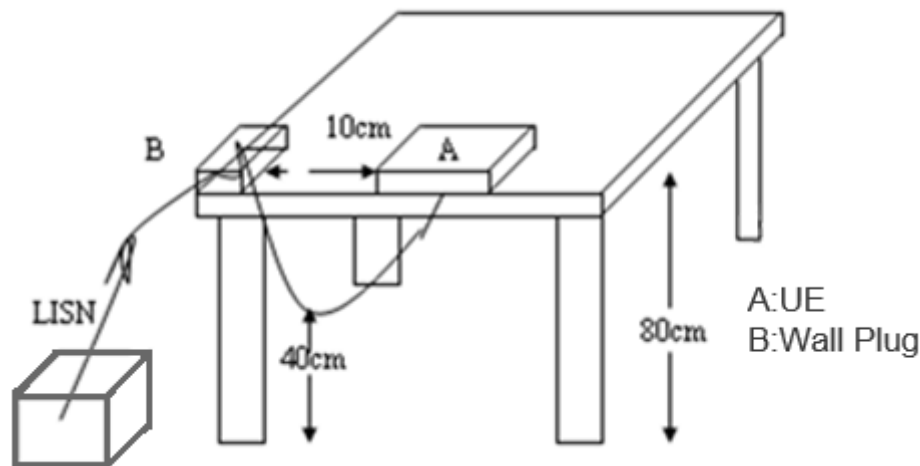
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Where:

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 $20 \times \log_{10} (\mu\text{V/m})$.

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 xdB Occupied Bandwidth

Ant1

802.11a_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	17.81	12.510
5220	18.15	12.590
5240	17.80	12.500
5260	17.98	12.550
5300	17.94	12.540
5320	17.80	12.500
5500	18.02	12.560
5580	18.05	12.560
5700	17.91	12.530

802.11a_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.28	12.120
5785	13.22	11.210
5825	12.58	11.000

802.11a_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.24	< 5250
5745	5736.93	> 5725

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802.11n_HT20_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.23	12.840
5220	19.31	12.860
5240	19.08	12.810
5260	18.98	12.780
5300	19.21	12.840
5320	19.21	12.840
5500	19.22	12.840
5580	19.14	12.820
5700	18.90	12.760

802.11n_HT20_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.11	12.070
5785	16.42	12.150
5825	16.31	12.120

802.11n_HT20_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.80	< 5250
5745	5736.31	> 5725

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802.11n_HT40_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.38	15.840
5230	38.34	15.840
5270	38.12	15.810
5310	38.24	15.830
5510	38.14	15.810
5670	37.82	15.780

802.11n_HT40_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	28.91	14.610
5795	30.03	14.780

802.11n_HT40_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.02	< 5250
5755	5737.16	> 5725

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802.11ac_VHT80_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	78.89	18.970
5290	78.62	18.960
5530	78.50	18.950

802.11ac_VHT80_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	60.10	17.790

802.11ac_VHT80_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.30	< 5250
5775	5737.75	> 5725

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802.11ax_HE20_OFDM_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.80	12.970
5220	19.73	12.950
5240	20.20	13.050
5260	19.90	12.990
5300	19.78	12.960
5320	19.87	12.980
5500	19.97	13.000
5580	19.80	12.970
5700	20.14	13.040

802.11ax_HE20_OFDM_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.36	12.140
5785	15.65	11.950
5825	16.72	12.230

802.11ax_HE20_OFDM_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.51	< 5250
5745	5735.68	> 5725

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802.11ax_HE40_OFDM_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.04	15.800
5230	38.06	15.800
5270	37.98	15.800
5310	37.84	15.780
5510	38.28	15.830
5670	38.20	15.820

802.11ax_HE40_OFDM_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	32.44	15.110
5795	32.55	15.130

5737.19596

802.11ax_HE40_OFDM_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5247.94	< 5250
5745	5737.20	> 5725

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802.11ax_HE80_Ant1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.13	19.040
5290	80.30	19.050
5530	80.06	19.030

802.11ax_HE80_Ant1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.44	18.540

802.11ax_HE80_Ant1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.22	< 5250
5775	5736.92	> 5725

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Ant2

802.11a_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	17.92	12.530
5220	17.75	12.490
5240	17.97	12.550
5260	18.08	12.570
5300	17.88	12.520
5320	17.73	12.490
5500	18.06	12.570
5580	18.40	12.650
5700	18.10	12.580

802.11a_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.02	11.470
5785	14.11	11.500
5825	14.66	11.660

802.11a_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.25	< 5250
5745	5736.93	> 5725

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802.11n_HT20_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.06	12.800
5220	18.99	12.790
5240	19.10	12.810
5260	18.97	12.780
5300	19.05	12.800
5320	18.75	12.730
5500	19.05	12.800
5580	18.89	12.760
5700	18.95	12.780

802.11n_HT20_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.10	11.790
5785	15.05	11.780
5825	17.25	12.370

802.11n_HT20_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.81	< 5250
5745	5736.34	> 5725

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802.11n_HT40_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.01	15.800
5230	38.49	15.850
5270	37.88	15.780
5310	38.39	15.840
5510	37.95	15.790
5670	38.17	15.820

802.11n_HT40_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	29.07	14.630
5795	33.83	15.290

802.11n_HT40_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.01	< 5250
5755	5737.12	> 5725

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802.11ac_VHT80_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	78.80	18.970
5290	78.57	18.950
5530	78.31	18.940

802.11ac_VHT80_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.38	18.540

802.11ac_VHT80_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.62	< 5250
5775	5737.57	> 5725

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802.11ax_HE20_OFDM_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.81	12.970
5220	20.03	13.020
5240	19.99	13.010
5260	19.83	12.970
5300	19.79	12.960
5320	20.06	13.020
5500	19.66	12.940
5580	19.96	13.000
5700	19.96	13.000

802.11ax_HE20_OFDM_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.12	11.800
5785	18.34	12.630
5825	11.03	10.430

802.11ax_HE20_OFDM_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.54	< 5250
5745	5735.63	> 5725

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802.11ax_HE40_OFDM_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.31	15.830
5230	38.11	15.810
5270	37.90	15.790
5310	37.96	15.790
5510	38.06	15.800
5670	38.14	15.810

802.11ax_HE40_OFDM_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	32.69	15.140
5795	35.56	15.510

5737.1164

802.11ax_HE40_OFDM_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.05	< 5250
5745	5737.12	> 5725

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802.11ax_HE80_Ant2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.37	19.050
5290	79.72	19.020
5530	79.99	19.030

802.11ax_HE80_Ant2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	71.37	18.540

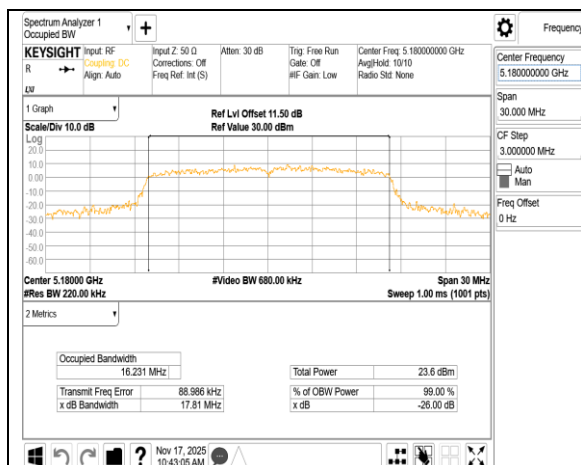
802.11ax_HE80_Ant2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.87	< 5250
5775	5736.83	> 5725

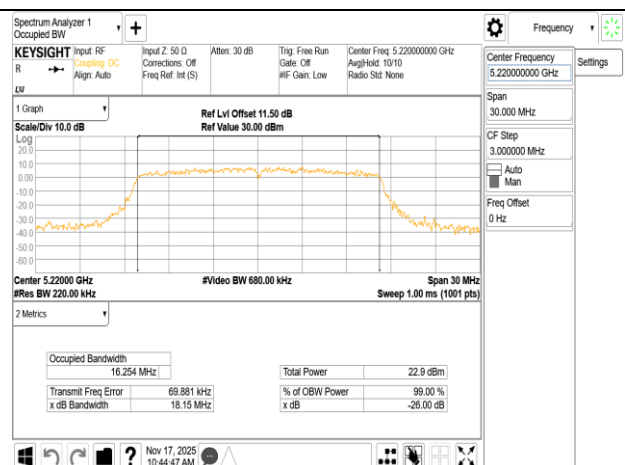
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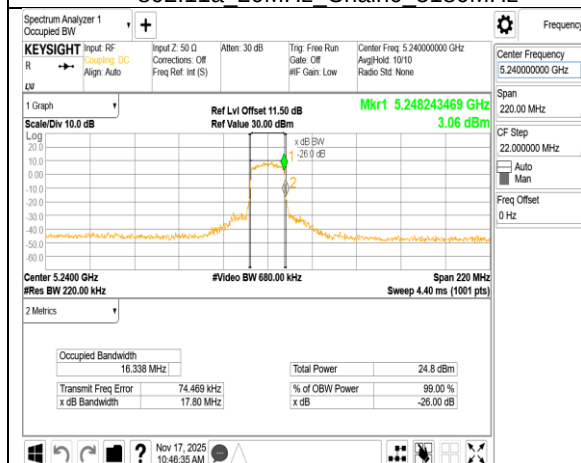
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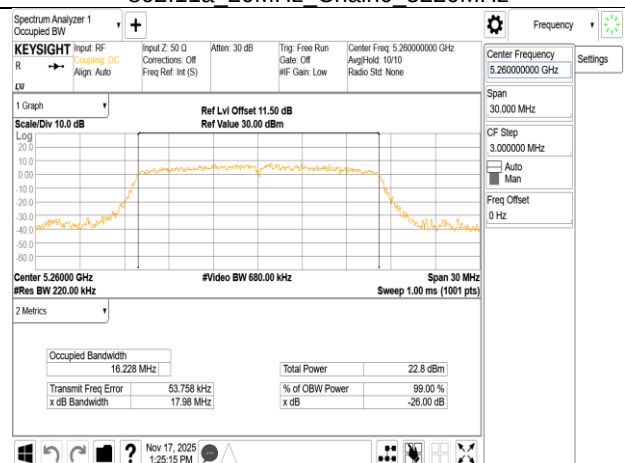
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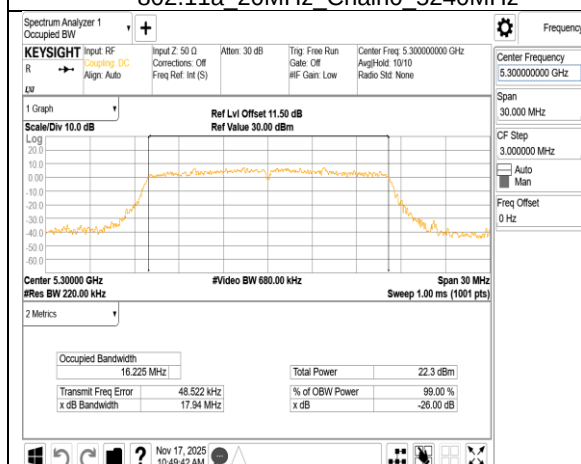
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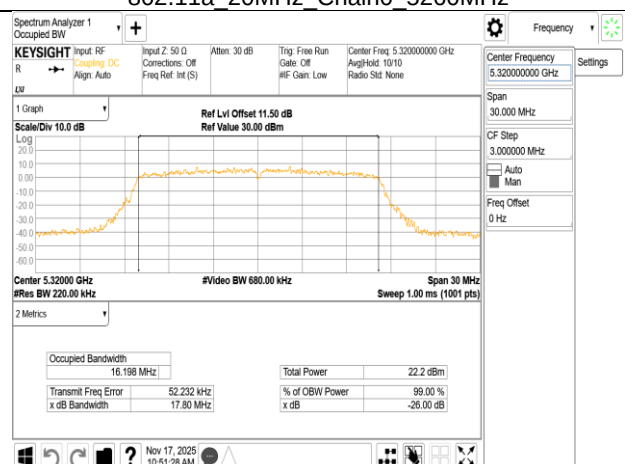
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802.11a 20MHz Chain0_5260MHz



802.11a 20MHz Chain0_5300MHz

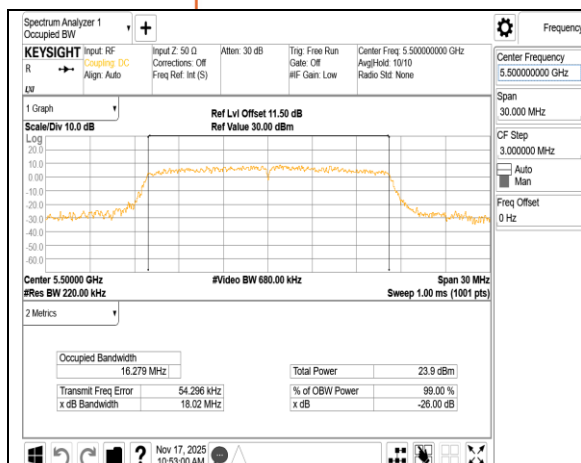


802.11a 20MHz Chain0_5320MHz

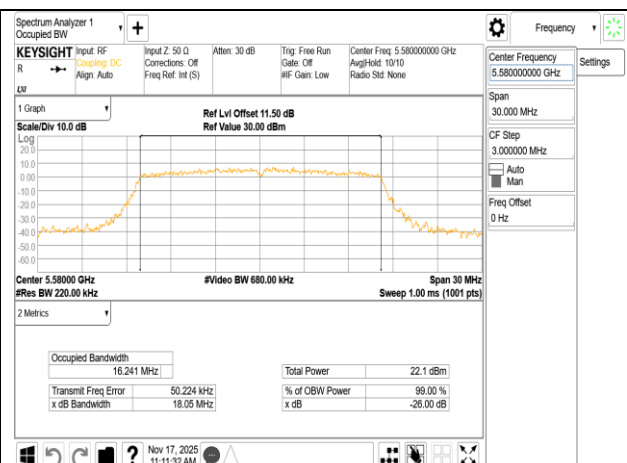
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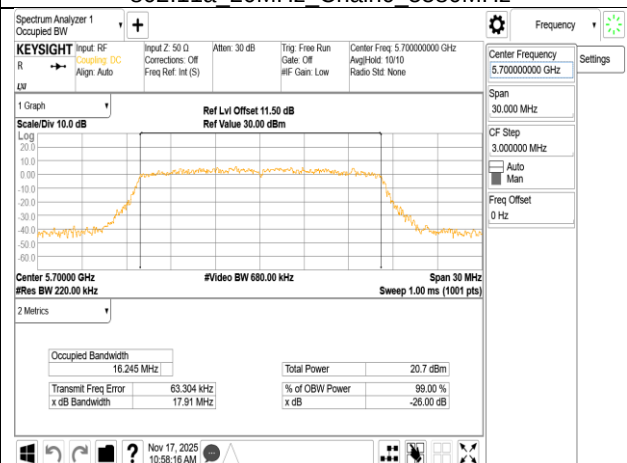
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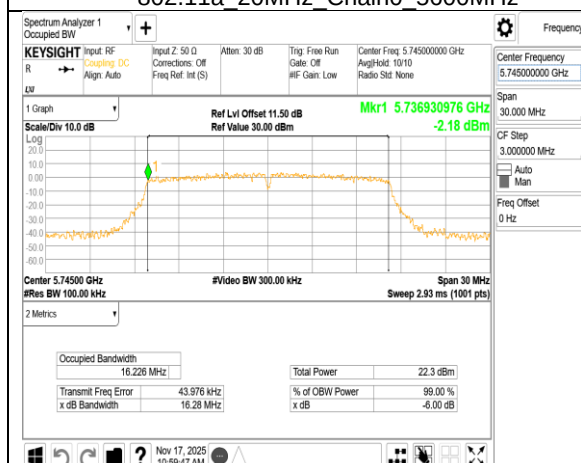
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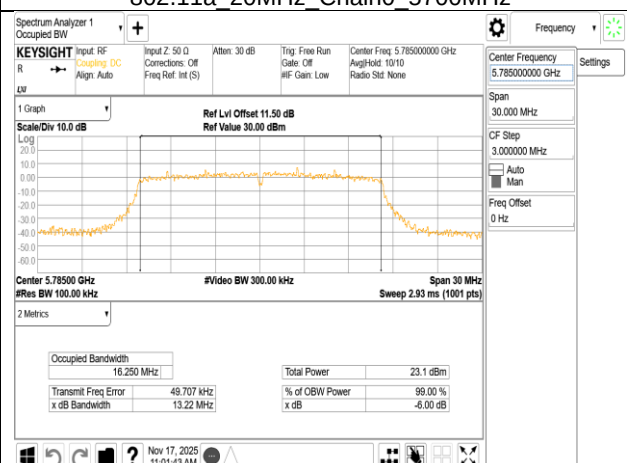
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802.11a 20MHz Chain0 5700MHz



802.11a 20MHz Chain0 5745MHz

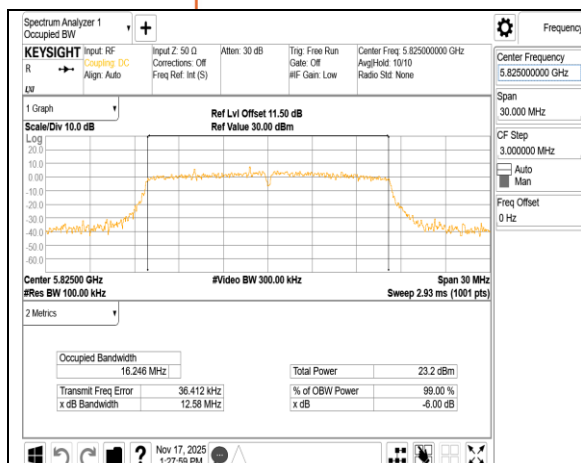


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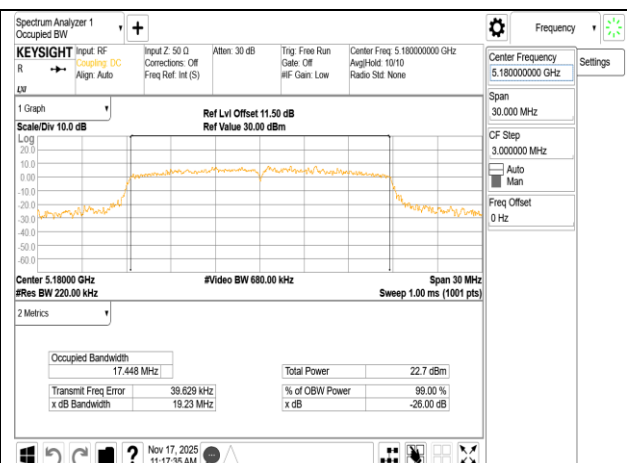
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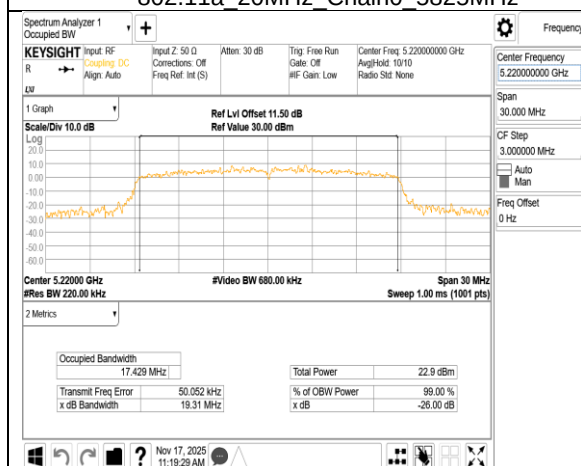
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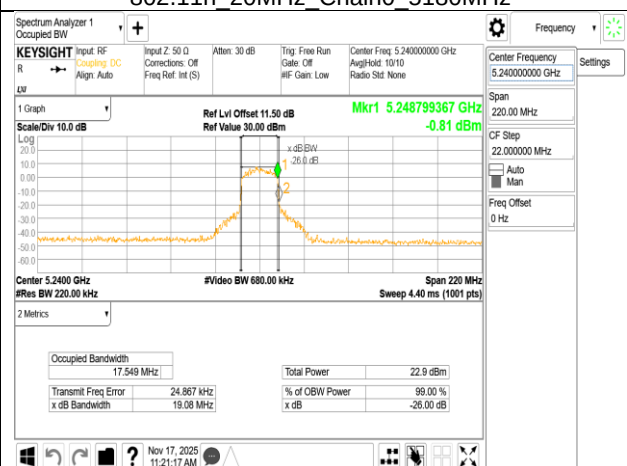
802.11a 20MHz Chain0 5825MHz



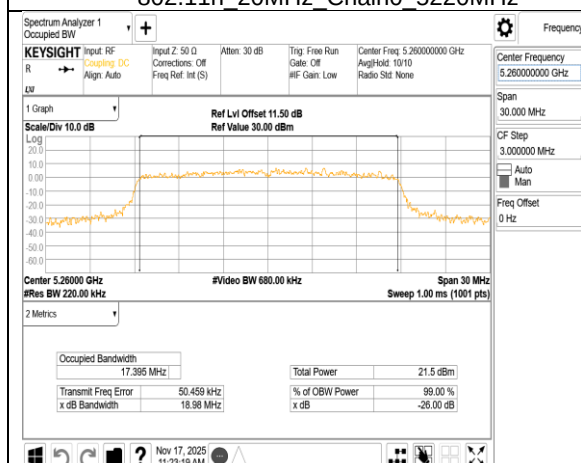
802.11n 20MHz Chain0 5180MHz



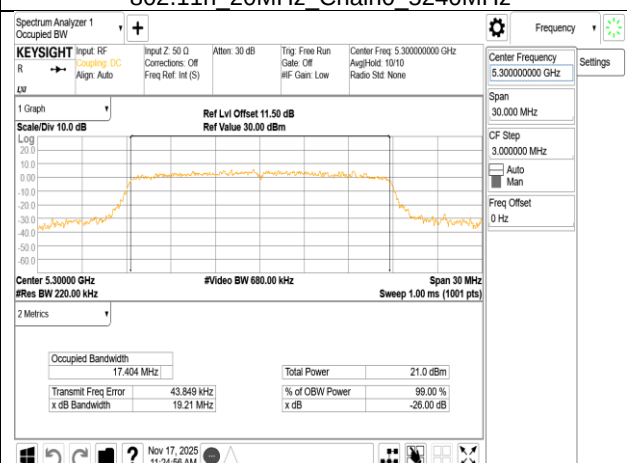
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802.11n 20MHz Chain0 5240MHz



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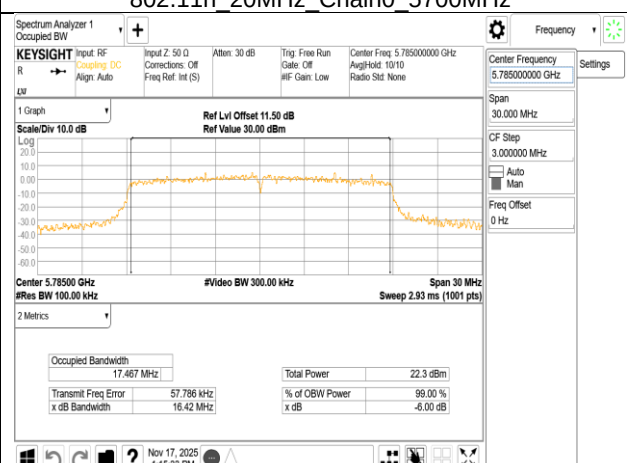
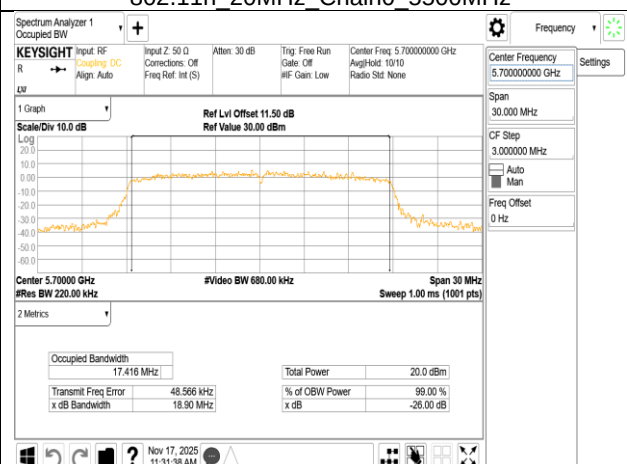
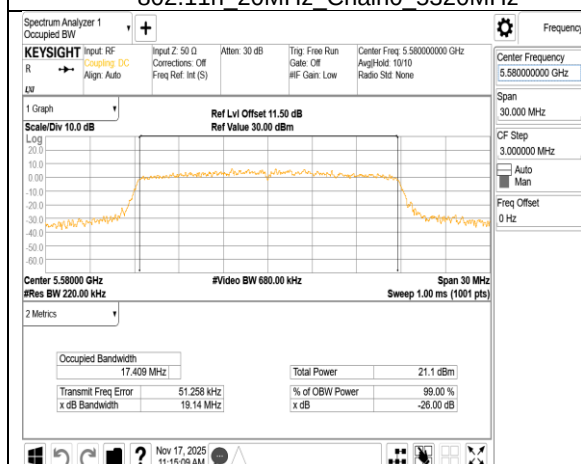
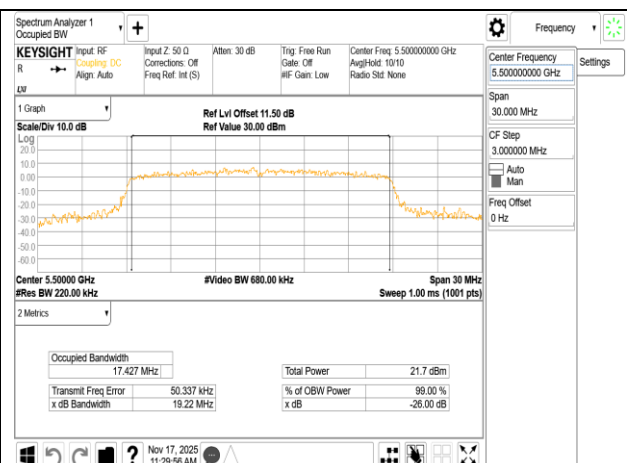
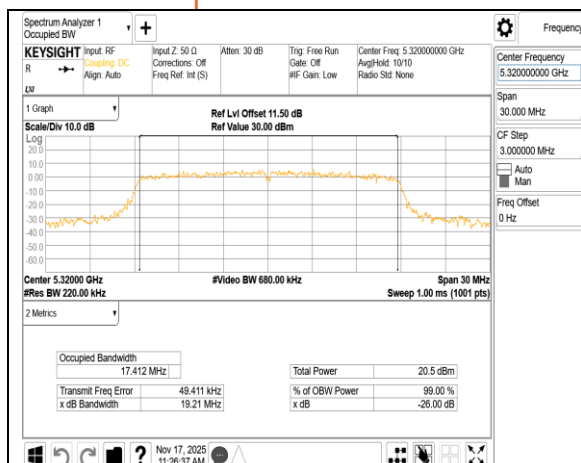


802.11n 20MHz Chain0 5300MHz

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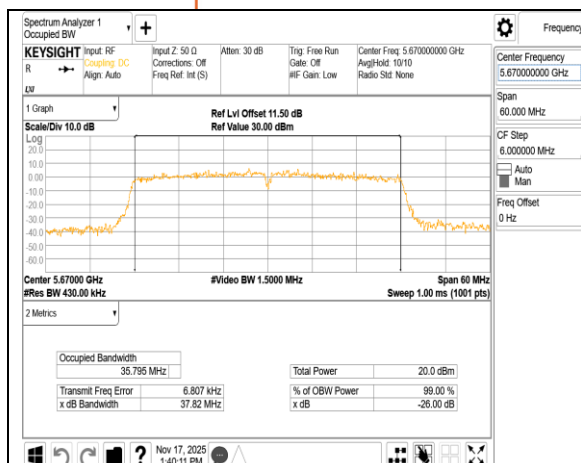
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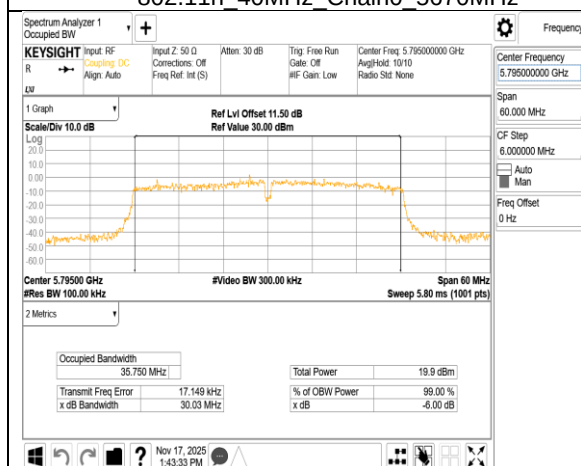
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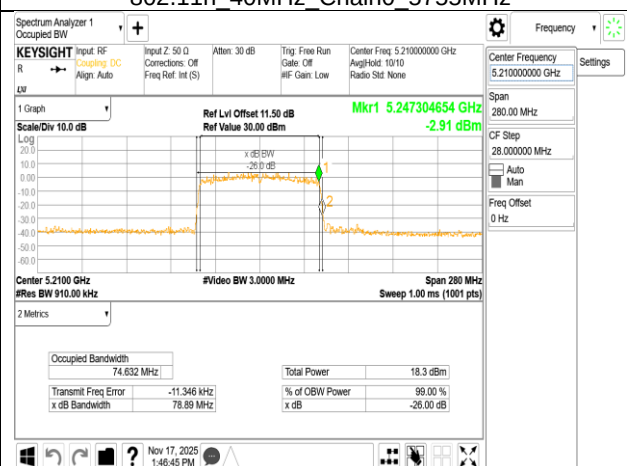
802.11n 40MHz Chain0 5670MHz



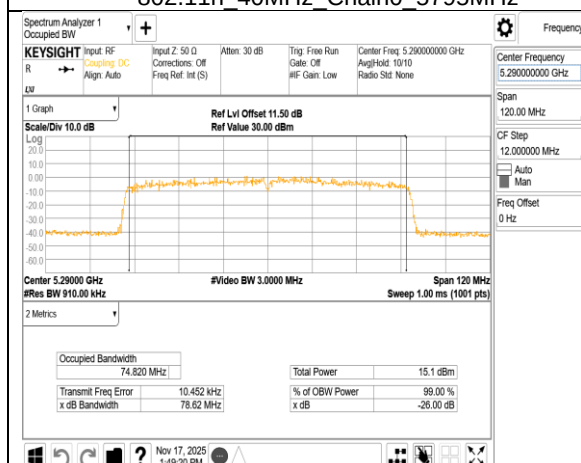
802.11n 40MHz Chain0 5755MHz



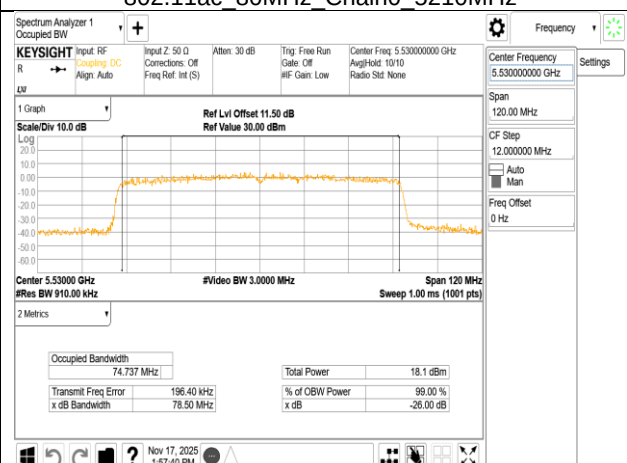
802.11n 40MHz Chain0 5795MHz



802.11ac 80MHz Chain0 5210MHz



802.11ac 80MHz Chain0 5290MHz



802.11ac 80MHz Chain0 5530MHz

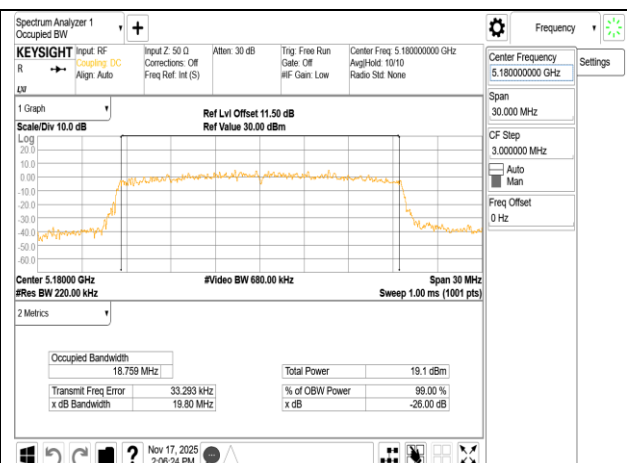
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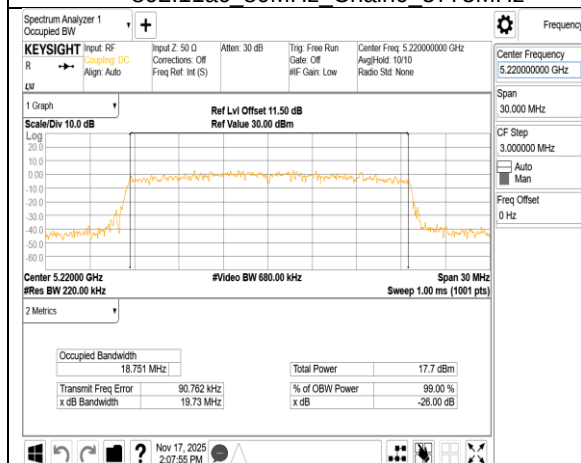
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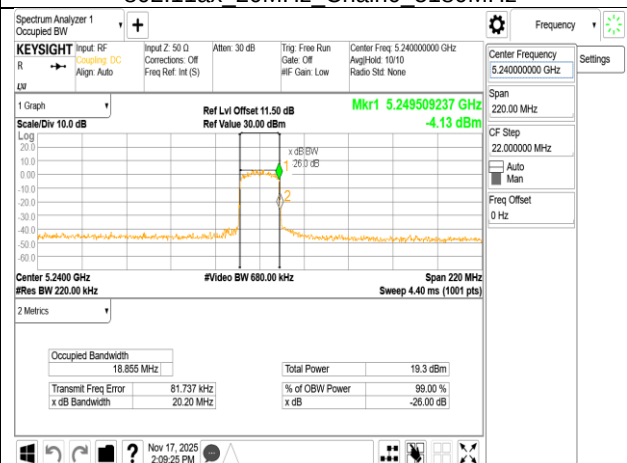
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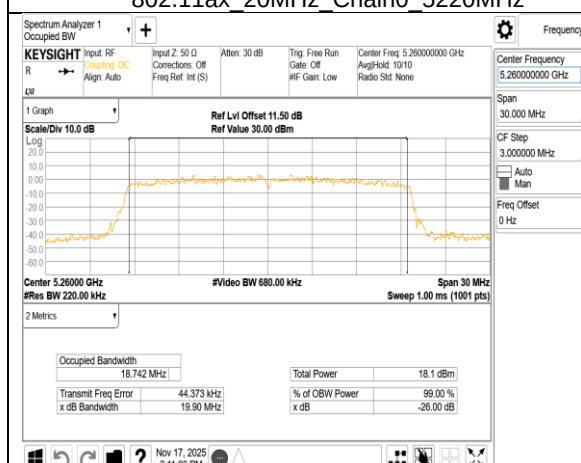
802.11ax_20MHz_Chain0_5180MHz



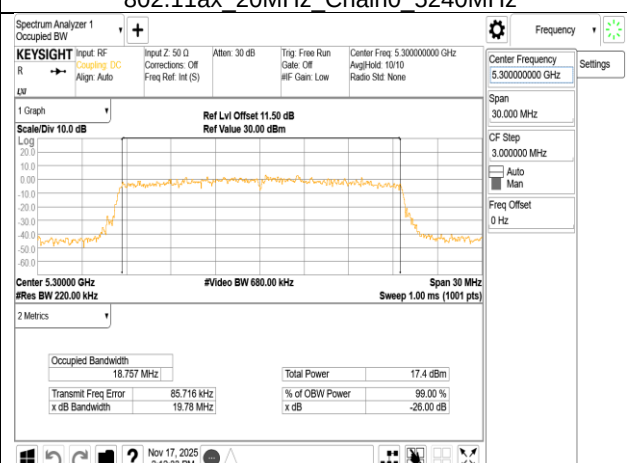
802.11ax_20MHz_Chain0_5220MHz



802.11ax_20MHz_Chain0_5240MHz



802.11ax_20MHz_Chain0_5260MHz



802.11ax_20MHz_Chain0_5300MHz

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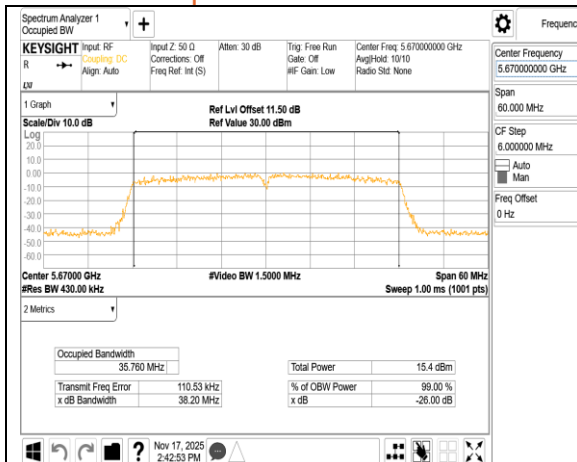
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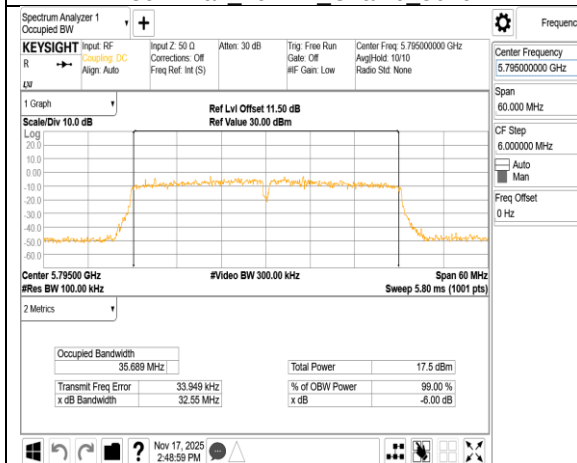
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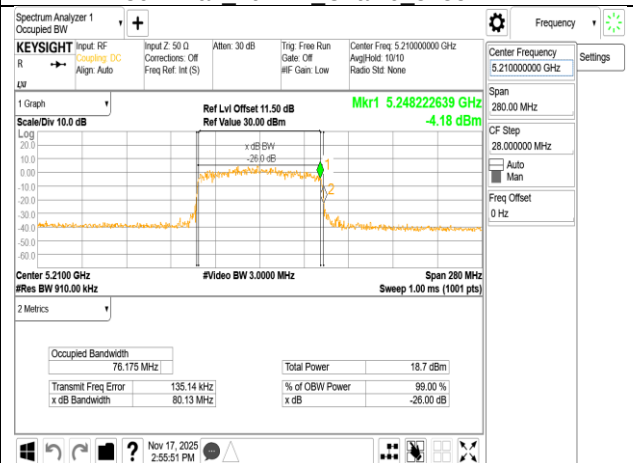
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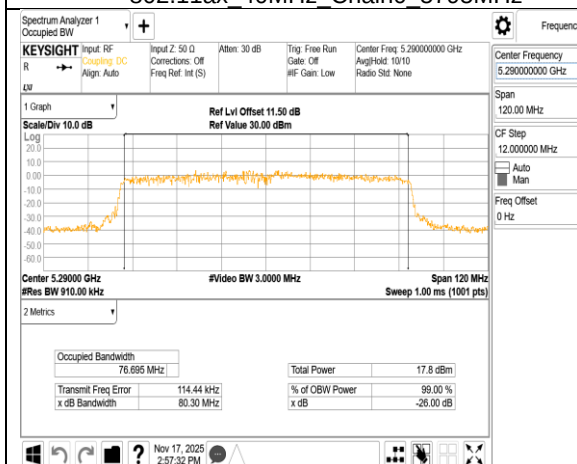
802.11ax 40MHz Chain0 5755MHz



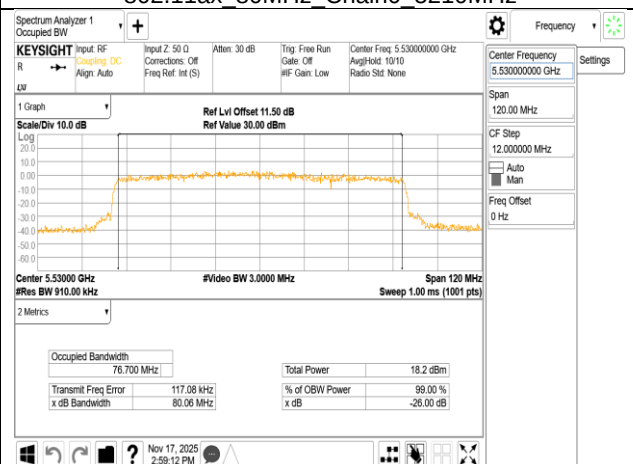
802.11ax 40MHz Chain0 5795MHz



802.11ax 80MHz Chain0 5210MHz



802.11ax 80MHz Chain0 5290MHz



802.11ax 80MHz Chain0 5530MHz

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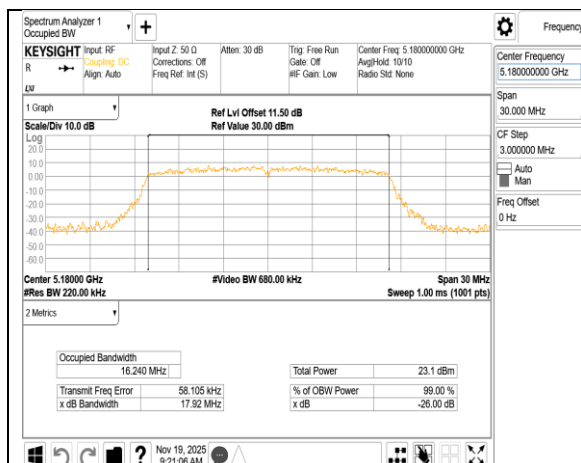
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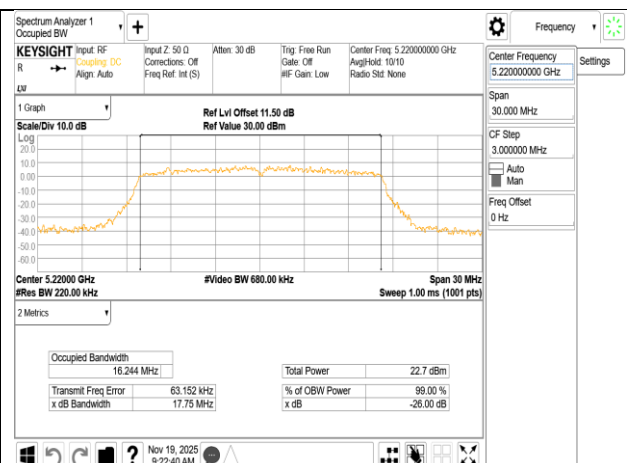


802.11ax 80MHz Chain0 5775MHz

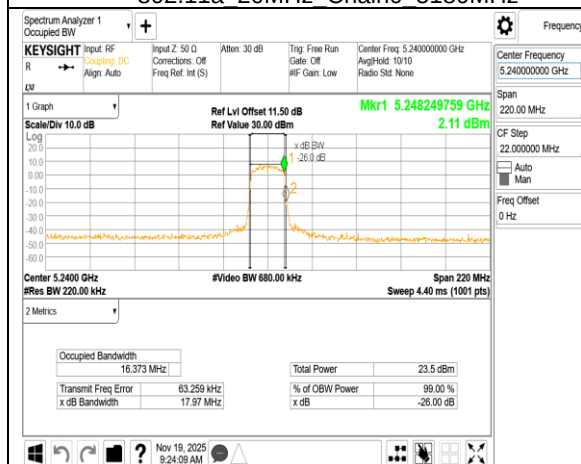
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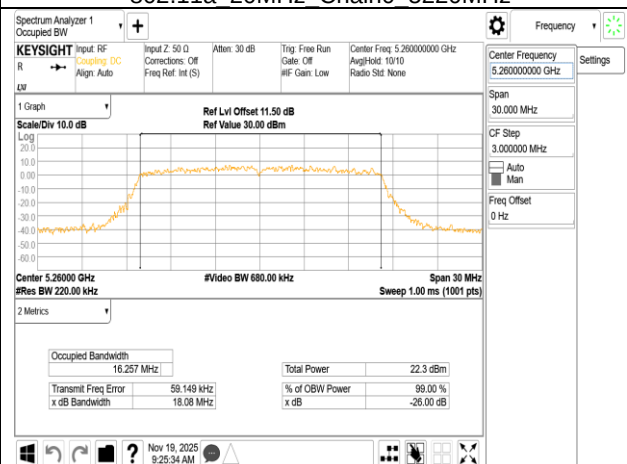
802.11a 20MHz Chain0 5180MHz



802.11a 20MHz Chain0 5220MHz



802.11a 20MHz Chain0 5240MHz



802.11a 20MHz Chain0 5260MHz

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