

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: WLAN module
Applicant: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Manufacturer: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Brand Name: HP
Model No. HSC-I014RWL
Report Number: TERF2604001386E2
FCC ID B94-HSCI014RWL
Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2604001394E2, for more details please refer to section 2 in this report.
Date of Test: N/A, the test results are fully leveraged from test report number TERF2604001394E2, for more details please refer to section 2 in this report.
Issue Date: August 31, 2026

Approved By _____

Alex Hsieh

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
TERF2604001386E2	00	Original	August 31, 2026	Candice Li	

Note:

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

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	WLAN module
Brand Name	HP
Model No.	HSC-I014RWL
Power Supply	4 Vdc
Test Software (Name/Version)	Qualcomm Radio Control Toolkit/V4.0.192.1

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 for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps
	802.11 ac_VHT160: up to 1733.4 Mbps
	802.11 ax_HE20: up to 286.8 Mbps
	802.11 ax_HE40: up to 573.6 Mbps
	802.11 ax_HE80: up to 1201 Mbps
	802.11 ax_HE160: up to 2402 Mbps
	802.11 be_EHT20: up to 344.1 Mbps
	802.11 be_EHT40: up to 688.2 Mbps
	802.11 be_EHT80: up to 1441.2 Mbps
	802.11 be_EHT160: up to 2882.4 Mbps

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1.3 Antenna Designation

Ant. Type	Supplier	Main/Aux	Model No.	Freq (MHz) / Peak Gain (dBi)
PIFA	Vendor 1	Main	6036B0396101 (81EAB615.GBC)	5150~5250: 2.22 5250~5350: 2.36 5470~5725: 0.85 5725~5850: 0.31 5850~5895: -0.23
		Aux	6036B0396201 (81EAB615.GBB)	5150~5250: 1.85 5250~5350: 1.63 5470~5725: 1.82 5725~5850: 1.93 5850~5895: 2.03
PIFA	Vendor 2	Main	WA-P-LE-02-460	5150~5250: 2.58 5250~5350: 2.2 5470~5725: 2.55 5725~5850: 2.82 5850~5895: 2.72
		Aux	WA-P-LE-02-459	5150~5250: 2.7 5250~5350: 2.34 5470~5725: 2.56 5725~5850: 2.31 5850~5895: 2.45
PIFA	Vendor 1	Main	6036B0395901 (81EAB615.GBE)	5150~5250: 2.35 5250~5350: 2.77 5470~5725: 2.77 5725~5850: 2.76 5850~5895: 2.76
		Aux	6036B0396001 (81EAB615.GBD)	5150~5250: 2.77 5250~5350: 2.29 5470~5725: 2.29 5725~5850: 2.75 5850~5895: 2.75
PIFA	Vendor 2	Main	WA-P-LE-02-462	5150~5250: 2.55 5250~5350: 2.81 5470~5725: 2.35 5725~5850: 2.35 5850~5895: 2.07
		Aux	WA-P-LE-02-461	5150~5250: 2.83 5250~5350: 2.9 5470~5725: 2.02 5725~5850: 2.81 5850~5895: 2.74

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PIFA	Vendor 1	Main	6036B0395701 (81EAB615.GBG)	5150~5250: 1.88 5250~5350: 1.47 5470~5725: 2.15 5725~5850: 1.78 5850~5895: 1.78
		Aux	6036B0395801 (81EAB615.GBF)	5150~5250: 2.21 5250~5350: 1.76 5470~5725: 1.65 5725~5850: 1.53 5850~5895: 1.53
PIFA	Vendor 2	Main	WA-P-LE-02-464	5150~5250: 1.51 5250~5350: 1.99 5470~5725: 2.48 5725~5850: 2.08 5850~5895: 2.43
		Aux	WA-P-LE-02-463	5150~5250: 0.66 5250~5350: -0.09 5470~5725: 1.21 5725~5850: 1.16 5850~5895: 1.33

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)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20/ 802.11be_EHT20	5180~5240	4	Avg	16.98 dBm	OFDM
	5260~5320	4	Avg	21.91 dBm	OFDM
	5500~5720	12	Avg	21.98 dBm	OFDM
	5745~5825	5	Avg	21.98 dBm	OFDM
	5845~5885	3	EIRP	23.97 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40/ 802.11be_EHT40	5190~5230	2	Avg	17.99 dBm	OFDM
	5270~5310	2	Avg	17.98 dBm	OFDMA
	5510~5710	6	Avg	17.98 dBm	OFDMA
	5755~5795	2	Avg	17.98 dBm	OFDM
	5835~5875	2	EIRP	20.74 dBm	OFDMA
802.11ac_VHT80/ 802.11ax_HE80/ 802.11be_EHT80	5210	1	Avg	18.99 dBm	OFDMA
	5290	1	Avg	18.97 dBm	OFDMA
	5530~5690	3	Avg	18.99 dBm	OFDM
	5775	1	Avg	18.97 dBm	OFDMA
	5855	1	EIRP	21.67 dBm	OFDM
802.11ac_VHT160/ 802.11ax_HE160/ 802.11be_EHT160	5250	1	Avg	12.98 dBm	OFDM
	5570	1	Avg	12.98 dBm	OFDMA
	5815	1	EIRP	15.71 dBm	OFDMA

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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	169	5845 MHz	173	5865 MHz	177	5885 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
167	5835 MHz	175	5875 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	171	5855 MHz	-	-
Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
50	5250 MHz	114	5570 MHz	163	5815 MHz	-	-

1.6 EUT Availability and The Worst Test Modes

1. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
2. The field strength of radiation 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.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among modes below.

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

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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	TESTED	MODULATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL		(Mbps)	PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			
	5815	163	163			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE	RU CONFIGURATION	ANTENNA
		CHANNEL	CHANNEL		(Mbps)		PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	MCS0	242 26/0,26/8 52/37,52/40 106/53,106/54	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	MCS0	484 242/61,242/62	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11ax_HE80	5210	42	42	OFDMA	MCS0	996 484/65,484/66	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11ax_HE160	5250	50	50	OFDMA	MCS0	996*2 996/67,996/S67	2TX
	5570	114	114				
	5815	163	163				

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE	RU CONFIGURATION	ANTENNA
		CHANNEL	CHANNEL		(Mbps)		PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	OFDMA	MCS0	242 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	MCS0	484 242/61,242/62	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11be_EHT80	5210	42	42	OFDMA	MCS0	996 484/65,484/66 484+242 MRU1,MRU4	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11be_EHT160	5250	50	50	OFDMA	MCS0	996*2 996/67,996/S67 996+484 MRU1,MRU2 996+484 MRU3,MRU4 996+484+242 MRU1 996+484+242 MRU2 996+484+242 MRU7 996+484+242 MRU8	2TX
	5570	114	114				
	5815	163	163				

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			
	5845~5885	169 to 177	173			

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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	OFDM		
	5500~5720	100 to 144	100,120,140,144	OFDM		
	5745~5825	149 to 165	149,157,165,169	OFDM		
	5855~5895	169 to 177	173,177	OFDM		
802.11n20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64	OFDM		
	5500~5720	100 to 144	100,120,140,144	OFDM		
	5745~5825	149 to 165	149,157,165	OFDM		
	5855~5895	169 to 177	169,173,177	OFDM		
802.11n40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62	OFDM		
	5510~5710	102 to 142	102,118,134,142	OFDM		
	5755~5795	151 to 159	151,159,167	OFDM		
	5835~5875	167 to 175	175	OFDM		
802.11ac80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58	OFDM		
	5530~5690	106 to 138	106,122,138	OFDM		
	5775	155	155	OFDM		
	5855	171	171	OFDM		
802.11ac160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114	OFDM		
	5815	163	163	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
802.11be20	5180~5240	36 to 48	36,44,48	OFDMA	MCS0	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	2TX
	5260~5320	52 to 64	52,60,64	OFDMA			
	5500~5720	100 to 144	100,120,140,144	OFDMA			
	5745~5825	149 to 165	149,157,165	OFDMA			
	5855~5895	169 to 177	169,173,177	OFDMA			
802.11be40	5190~5230	38 to 46	38,46	OFDMA	MCS0	FULL RU 242/61,242/62	2TX
	5270~5310	54 to 62	54,62	OFDMA			
	5510~5710	102 to 142	102,118,134,142	OFDMA			
	5755~5795	151 to 167	151,159,167	OFDMA			
	5835~5875	167 to 175	175	OFDMA			
802.11be80	5210	42	42	OFDMA	MCS0	FULL RU 484/65,484/66 484+242 MRU1,MRU4	2TX
	5290	58	58	OFDMA			
	5530~5690	106 to 138	106,122,138	OFDMA			
	5775	155	155	OFDMA			
	5855	171	171	OFDMA			
802.11be160	5250	50	50	OFDMA	MCS0	FULL RU 996/67,996/S67 996+484 MRU1,MRU2 996+484 MRU3,MRU4 996+484+242 MRU1,MRU2 996+484+242 MRU7,MRU8	2TX
	5570	114	114	OFDMA			
	5815	163	163	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	Description Of Test	Result	Note
§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	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2604001394E2.

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
5. FCC KDB 291074 D02 EMC Measurement v01

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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 / FAC 1	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 FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	P84844-001	22.6~23.4°C / 74~68%	2026/05/05 ~ 2026/06/22
Radiated	SAC C	Alex Li	P84844-001	20.4~25.8°C / 56~72%	2026/05/18 ~ 2026/07/06
Conduction	Conduction C	Alex Li	P84844-001	21.3°C / 62%	2026/07/04

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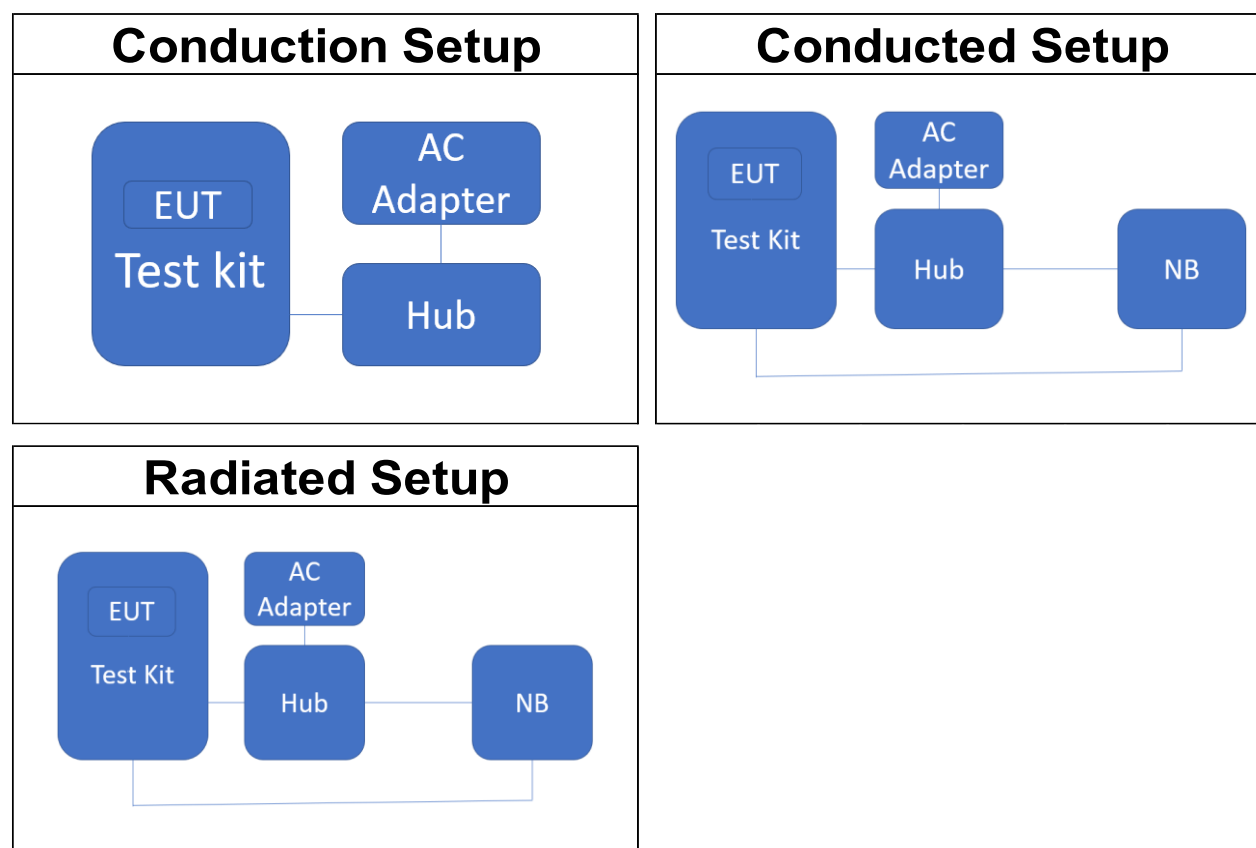
3 CONTROL UNIT(S) AND PERIPHERAL(S)

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 Power Technology Co., Ltd.	TPN-CA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test Kit	HP	HSC-I014RWL	N/A	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Delta Electronics, Inc.	TPN-DA25	N/A	N/A	N/A
Test kit	HP	HSC-I014RWL	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Notebook	ASUS	ME407KA	N/A	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L440	P0000367	N/A	N/A
USB Cable	SHANG LIAN TECHNOLOGY CO.,LTD	VPC-70	N/A	N/A	N/A
AC Adapter	Chicony Power Technology Co., Ltd.	TPN-CA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test Kit	HP	HSC-I014RWL	N/A	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 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	03/27/2026	03/26/2027
EMI Test Receiver	R&S	ESCI	101342	04/16/2026	04/15/2027
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/29/2026	06/28/2027
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027

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	RF05	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF34	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	02/02/2026	02/01/2027
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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2026	03/01/2027
5150-5350 Notch Filter	Woken	EWT-14-0275	RF187	11/13/2025	11/12/2026
5500-6000 Notch Filter	Woken	EWT-14-0251	RF189	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104- SM-SM- 6000+EMC105-SM- SM-12000+15	W13.01+150813+23 10002+15	11/13/2025	11/12/2026
Coaxial Cable	SUCCOFLEX	SUCCOFLEX 102	MY2153/2+MY5204 15/2	11/13/2025	11/12/2026
EMI Test Receiver	R&S	ESU 40	100363	04/29/2026	04/28/2027
Horn Antenna	RF SPIN	DRH0844	KV2E12A0844	01/23/2026	01/22/2027
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027

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
U-NII-4 (5850~5895 MHz)					
	Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
V	Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
	Subordinate device	Not required	36dBm	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	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
U-NII-4 (5850~5895 MHz)			
	Indoor AP	20dBm / MHz e.i.r.p.	Not required
V	Indoor client	14dBm / MHz e.i.r.p.	Not required
	Subordinate device	20dBm / MHz e.i.r.p.	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.			

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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	$f \leq 5150$ $f \geq 5350$	PK: -27	PK: 68.2
15.407(b)(2)	5250~5350			
15.407(b)(3)	5475~5725	$f \leq 5470$ $f \geq 5725$	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 = $(E \cdot d)^2 / 30$, 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 5850~5925 MHz

Standards	Operation Freq. (MHz)	ETU categories	EIRP Limits (dBm/MHz)	EIRP Limits (dBm/MHz)	Field Strength @3m (dBμV/m)
15.407(b)(5)(i)	5850~5895 or channel span cross 5725~5895	indoor AP or subordinate device	decrease linearly from 5895 ~ 5925MHz and above	PK:35~13 AV:15~-7	PK:130~108 AV:110~88
15.407(b)(5)(ii)		Client device		PK:15~-7 AV:-5~-27	PK:110~88 AV:90~68
15.407(b)(5)(iii)		Client / indoor AP / subordinate device	At or below 5650	PK:-27	PK:68
			increasing linearly from 5650~5700	PK:-27~10	PK:68~105
			increasing linearly from 5700~5720	PK:10~15.6	PK:105~110.6
increasing linearly from 5720~5725	PK:15.6~27		PK:110.6~122		

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5.4.3 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	2400/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.

5.5 AC Power Line Conducted Emission

Frequency range MHz	Limits (dBμV)	
	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

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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
RBW=1% to 5% of emission BW,
VBW > RBW
Sweep = Auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually adjust RBW until RBW/EBW ratio is in the range of 1% to 5% (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 & 5.850~5.895GHz
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 = 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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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

6.2 Maximum Output Power

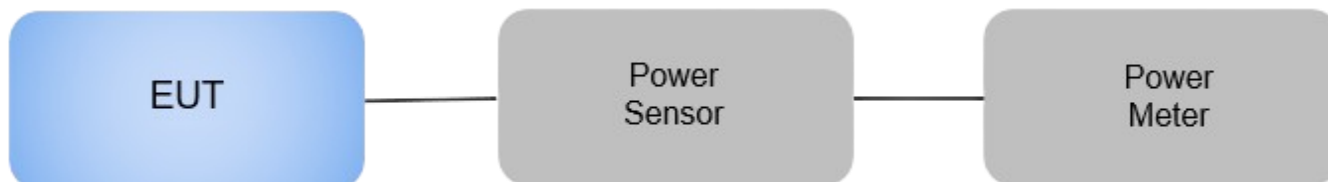
6.2.1 Duty Cycle



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

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

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)
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

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500 kHz, add 10 log (500 kHz / 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/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

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

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6.4 Unwanted Emissions

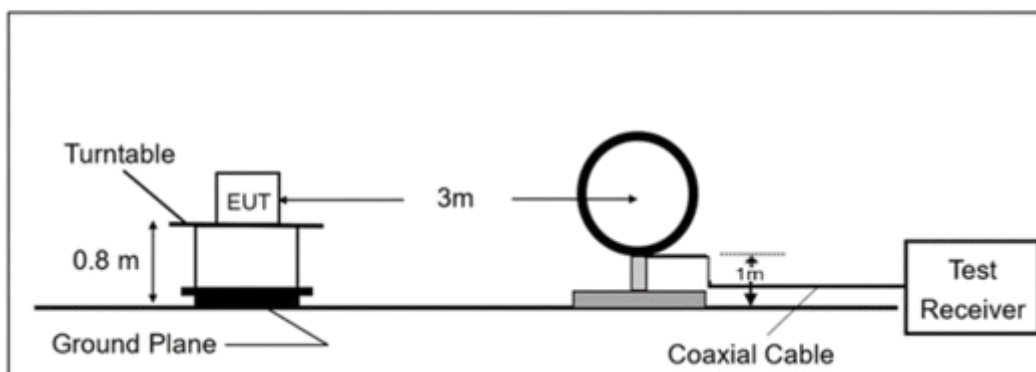
6.4.1 Radiated Emission Test Sites

For Measurements From 9 kHz To 30 MHz

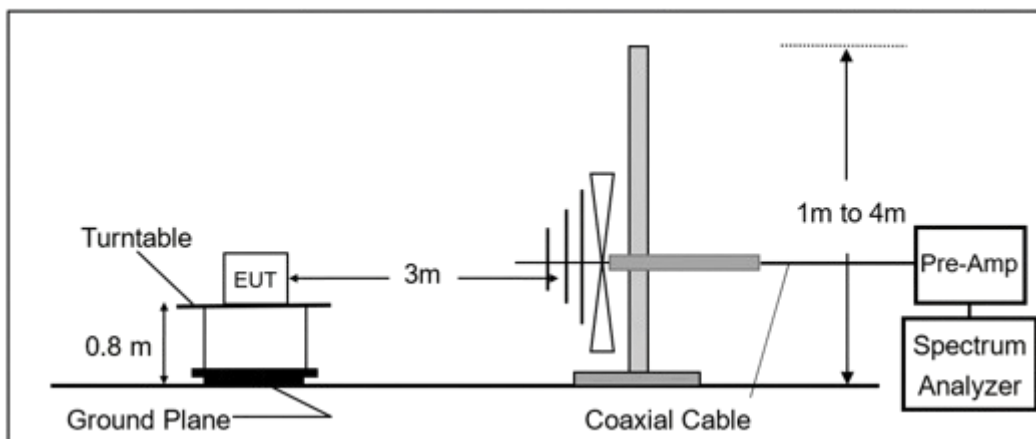
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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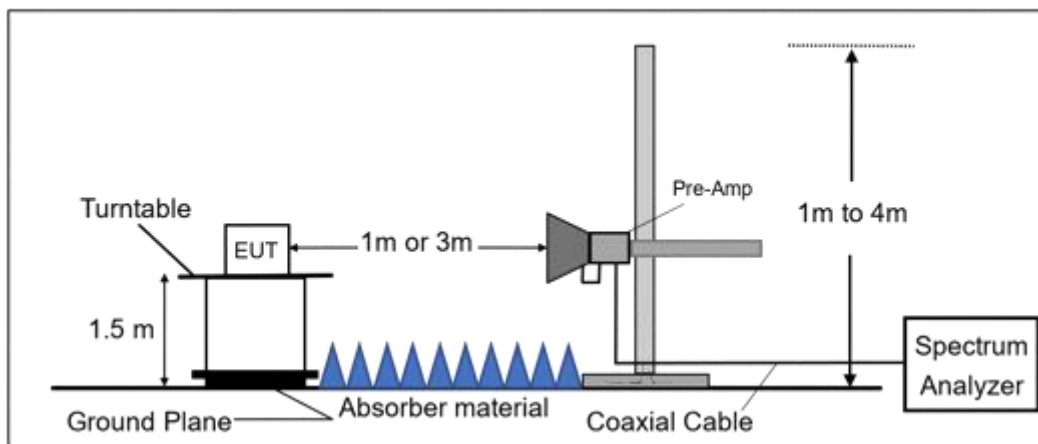
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Radiated Emission Test Set-Up, Frequency Above 1GHz.



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.

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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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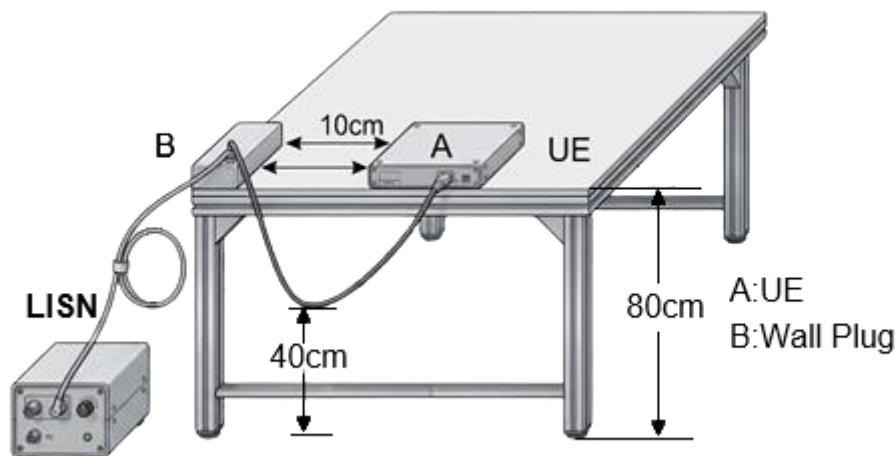
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6.5 AC Power Line Conducted Emission



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 xdB Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.78	13.380	5180	21.63	13.350
5220	22.11	13.450	5220	22.08	13.440
5240	22.06	13.440	5240	22.33	13.490
5260	22.66	13.550	5260	22.33	13.490
5300	21.60	13.340	5300	22.05	13.430
5320	22.15	13.450	5320	21.45	13.310
5500	24.32	13.860	5500	22.19	13.460
5600	24.58	13.910	5600	21.79	13.380
5700	22.72	13.560	5700	22.00	13.420
5720	16.39	12.150	5720	15.65	11.950

802.11a_Ch1

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.22	5.080	5720	3.22	5.080
5745	16.33	12.130	5745	16.40	12.150
5785	16.33	12.130	5785	16.41	12.150
5825	16.34	12.130	5825	16.38	12.140
5845(U-NII 3)	16.40	12.150	5845(U-NII 3)	16.37	12.140
5865	16.43	12.160	5865	16.39	12.150
5885	16.33	12.130	5885	16.37	12.140

802.11a_Ch1

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.47	< 5250
5745	5736.77	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.52	< 5250
5745	5736.80	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.69	13.560	5180	22.52	13.530
5220	22.19	13.460	5220	22.43	13.510
5240	22.46	13.510	5240	22.77	13.570
5260	22.70	13.560	5260	22.32	13.490
5300	22.79	13.580	5300	22.36	13.490
5320	22.71	13.560	5320	22.32	13.490
5500	22.43	13.510	5500	22.24	13.470
5600	22.82	13.580	5600	22.46	13.510
5700	22.57	13.540	5700	22.31	13.480
5720	16.14	12.080	5720	16.20	12.100

802.11n_HT20_Ch1

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.91	5.920	5720	3.83	5.830
5745	17.63	12.460	5745	17.36	12.400
5785	17.58	12.450	5785	17.58	12.450
5825	17.60	12.460	5825	17.55	12.440
5845(U-NII 3)	17.59	12.450	5845(U-NII 3)	17.65	12.470
5865	17.58	12.450	5865	17.62	12.460
5885	17.63	12.460	5885	17.57	12.450

802.11n_HT20_Ch1

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.01	< 5250
5745	5736.20	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.01	< 5250
5745	5736.19	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.58	16.390	5190	44.98	16.530
5230	44.12	16.450	5230	44.54	16.490
5270	44.84	16.520	5270	43.62	16.400
5310	44.43	16.480	5310	44.53	16.490
5510	44.38	16.470	5510	44.51	16.480
5590	44.02	16.440	5590	44.53	16.490
5670	43.45	16.380	5670	44.31	16.470
5710	37.10	15.690	5710	36.45	15.620

802.11n_HT40_Ch1

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	3.19	5.040	5710	2.83	4.520
5755	35.45	15.500	5755	36.07	15.570
5795	35.86	15.550	5795	34.83	15.420
5835(U-NII 3)	35.99	15.560	5835(U-NII 3)	34.50	15.380
5875	35.68	15.520	5875	33.89	15.300

802.11n_HT40_Ch1

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.37	< 5250
5755	5736.97	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.32	< 5250
5755	5737.01	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	90.55	19.570
5290	89.56	19.520
5530	89.88	19.540
5610	89.56	19.520
5690	79.50	19.000

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	89.31	19.510
5290	88.39	19.460
5530	88.18	19.450
5610	88.47	19.470
5690	79.41	19.000

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	2.94	4.680
5775	72.66	18.610
5855(U-NII 3)	73.37	18.660

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	2.05	3.120
5775	74.01	18.690
5855(U-NII 3)	71.37	18.540

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.00	< 5250
5775	5737.31	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.08	< 5250
5775	5737.40	> 5725

802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	179.3	22.540
5570	179.8	22.550

802.11ac_VHT160_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	176.4	22.460
5570	174.9	22.430

802.11ac_VHT160_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815(U-NII 3)	156.5	21.940

802.11ac_VHT160_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815(U-NII 3)	156.2	21.940

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802.11be_EHT20_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.46	13.510	5180	22.35	13.490
5220	22.32	13.490	5220	22.27	13.480
5240	22.59	13.540	5240	22.16	13.460
5260	22.71	13.560	5260	22.83	13.590
5300	21.76	13.380	5300	22.44	13.510
5320	22.07	13.440	5320	22.27	13.480
5500	22.36	13.490	5500	22.17	13.460
5600	22.08	13.440	5600	22.71	13.560
5700	22.42	13.510	5700	22.57	13.540
5720	16.13	12.080	5720	16.31	12.120

802.11be_EHT20_SU_Ch1

802.11be_EHT20_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	4.61	6.640	5720	4.50	6.530
5745	18.95	12.780	5745	18.91	12.770
5785	18.99	12.790	5785	18.89	12.760
5825	18.85	12.750	5825	18.90	12.760
5845(U-NII 3)	18.90	12.760	5845(U-NII 3)	19.03	12.790
5865	18.76	12.730	5865	19.10	12.810
5885	18.81	12.740	5885	18.74	12.730

802.11be_EHT20_SU_Ch1

802.11be_EHT20_SU_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.63	< 5250
5745	5735.59	> 5725

802.11be_EHT20_SU_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.63	< 5250
5745	5735.58	> 5725

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802.11be_EHT40_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.08	16.340
5230	44.01	16.440
5270	44.32	16.470
5310	43.25	16.360
5510	42.26	16.260
5590	42.43	16.280
5670	43.88	16.420
5710	35.84	15.540

802.11be_EHT40_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.25	16.360
5230	42.64	16.300
5270	42.42	16.280
5310	42.22	16.260
5510	42.47	16.280
5590	42.98	16.330
5670	42.40	16.270
5710	36.24	15.590

802.11be_EHT40_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	4.02	6.040
5755	38.03	15.800
5795	37.91	15.790
5835(U-NII 3)	37.28	15.710
5875	38.09	15.810

802.11be_EHT40_SU_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	3.82	5.820
5755	38.14	15.810
5795	37.27	15.710
5835(U-NII 3)	36.21	15.590
5875	37.83	15.780

802.11be_EHT40_SU_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.13	< 5250
5755	5736.15	> 5725

802.11be_EHT40_SU_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.13	< 5250
5755	5736.18	> 5725

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802.11be_EHT80_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	84.14	19.250
5290	85.10	19.300
5530	86.26	19.360
5610	84.82	19.280
5690	76.81	18.850

802.11be_EHT80_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	84.91	19.290
5290	85.85	19.340
5530	86.19	19.350
5610	83.94	19.240
5690	76.46	18.830

802.11be_EHT80_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	3.74	5.730
5775	77.51	18.890
5855(U-NII 3)	76.85	18.860

802.11be_EHT80_SU_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	2.87	4.580
5775	74.65	18.730
5855(U-NII 3)	74.01	18.690

802.11be_EHT80_SU_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.71	< 5250
5775	5736.62	> 5725

802.11be_EHT80_SU_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.77	< 5250
5775	5736.79	> 5725

802.11be_EHT160_SU_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	174.8	22.430
5570	175.9	22.450

802.11be_EHT160_SU_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	176.9	22.480
5570	171.4	22.340

802.11be_EHT160_SU_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815(U-NII 3)	158.2	21.990

802.11be_EHT160_SU_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815(U-NII 3)	158.0	21.990

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802.11be_EHT20_RU_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	242	22.07	13.440
5220	242	22.66	13.550
5240	242	22.20	13.460
5260	242	22.49	13.520
5300	242	22.76	13.570
5320	242	22.53	13.530
5500	242	23.02	13.620
5600	242	22.31	13.480
5700	242	22.93	13.600
5720	242	16.34	12.130

802.11be_EHT20_RU_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	242	22.48	13.520
5220	242	21.86	13.400
5240	242	22.23	13.470
5260	242	22.03	13.430
5300	242	22.26	13.480
5320	242	22.64	13.550
5500	242	22.97	13.610
5600	242	22.69	13.560
5700	242	22.30	13.480
5720	242	16.21	12.100

802.11be_EHT20_RU_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5720	242	4.58	6.610
5745	242	19.09	12.810
5785	242	19.08	12.810
5825	242	19.12	12.810
5845 (U-NII 3)	242	19.09	12.810
5865	242	19.08	12.810
5885	242	19.12	12.810

802.11be_EHT20_RU_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5720	242	4.58	6.610
5745	242	19.10	12.810
5785	242	19.06	12.800
5825	242	19.06	12.800
5845 (U-NII 3)	242	19.12	12.810
5865	242	18.98	12.780
5885	242	19.03	12.790

802.11be_EHT20_RU_Ch0

Freq. (MHz)	RU config	Measured Freq. (MHz)
5240	242	5249.68
5745	242	5735.54

802.11be_EHT20_RU_Ch1

Freq. (MHz)	RU config	Measured Freq. (MHz)
5240	242	5249.67
5745	242	5735.53

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802.11be_EHT40_RU_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	484	43.74	16.410
5230	484	42.07	16.240
5270	484	45.93	16.620
5310	484	43.69	16.400
5510	484	44.55	16.490
5590	484	43.70	16.400
5670	484	43.90	16.420
5710	484	37.62	15.750

802.11be_EHT40_RU_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	484	43.87	16.420
5230	484	43.29	16.360
5270	484	43.72	16.410
5310	484	43.77	16.410
5510	484	43.54	16.390
5590	484	42.56	16.290
5670	484	42.78	16.310
5710	484	36.66	15.640

802.11be_EHT40_RU_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5710	484	4.07	6.100
5755	484	38.07	15.810
5795	484	38.24	15.830
5835 (U-NII 3)	484	38.26	15.830
5875	484	38.19	15.820

802.11be_EHT40_RU_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5710	484	4.10	6.130
5755	484	38.01	15.800
5795	484	38.10	15.810
5835 (U-NII 3)	484	38.08	15.810
5875	484	37.03	15.690

802.11be_EHT40_RU_Ch0

Freq. (MHz)	RU config	Measured Freq. (MHz)
5230	484	5249.19
5755	484	5736.10

802.11be_EHT40_RU_Ch1

Freq. (MHz)	RU config	Measured Freq. (MHz)
5230	484	5249.24
5755	484	5736.13

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802.11be_EHT80_RU_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	996	88.62	19.480
5290	996	88.50	19.470
5530	996	87.13	19.400
5610	996	87.46	19.420
5690	996	78.83	18.970

802.11be_EHT80_RU_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	996	85.29	19.310
5290	996	86.92	19.390
5530	996	85.01	19.290
5610	996	86.01	19.350
5690	996	77.50	18.890

802.11be_EHT80_RU_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5690	996	4.06	6.090
5775	996	78.18	18.930
5855 (U-NII 3)	996	78.11	18.930

802.11be_EHT80_RU_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5690	996	4.09	6.120
5775	996	78.05	18.920
5855 (U-NII 3)	996	77.85	18.910

802.11be_EHT80_RU_Ch0

Freq. (MHz)	RU config	Measured Freq. (MHz)
5210	996	5248.98
5775	996	5736.26

802.11be_EHT80_RU_Ch1

Freq. (MHz)	RU config	Measured Freq. (MHz)
5210	996	5248.95
5775	996	5736.32

802.11be_EHT160_RU_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	996*2	174.1	22.410
5570	996*2	176.3	22.460

802.11be_EHT160_RU_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	996*2	177.6	22.490
5570	996*2	173.8	22.400

802.11be_EHT160_RU_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	996*2	155.5	21.920

802.11be_EHT160_RU_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	996*2	157.0	21.960

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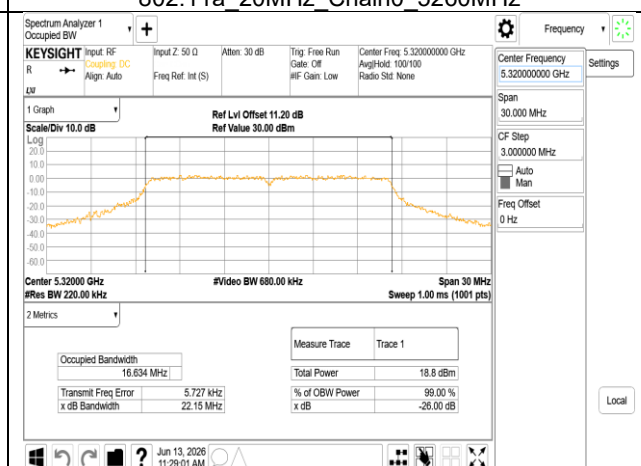
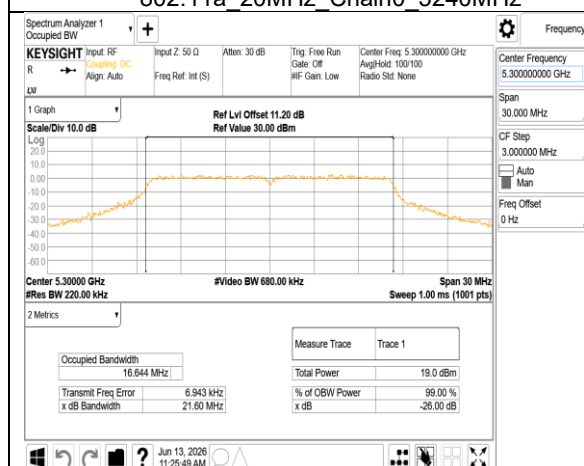
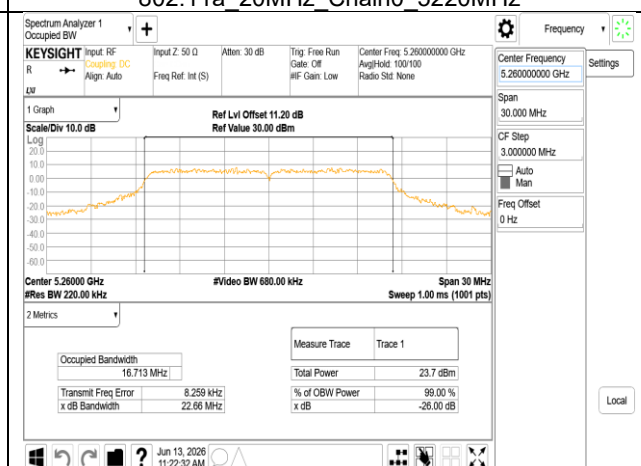
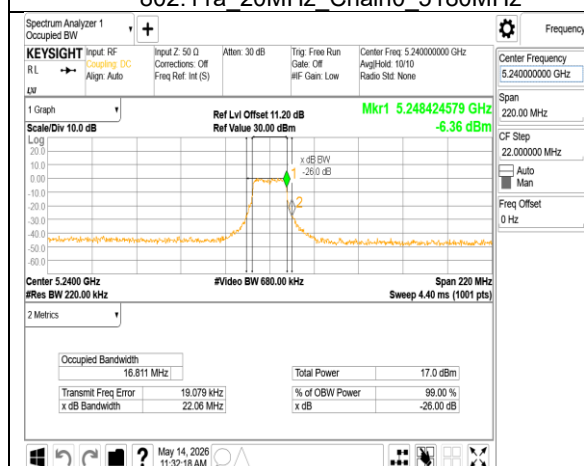
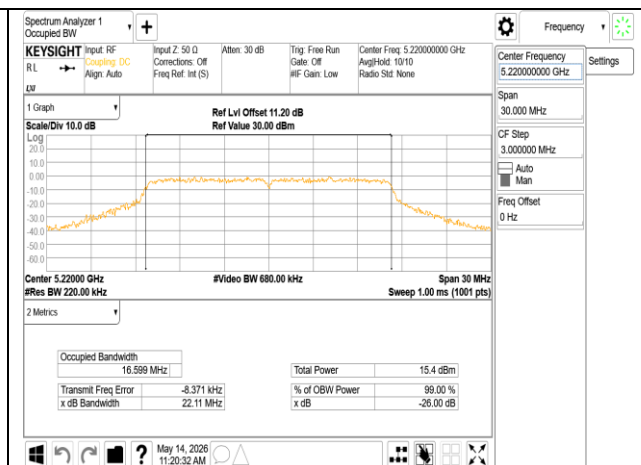
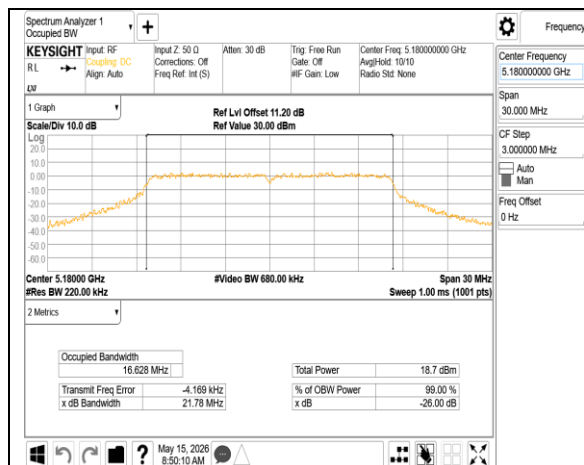
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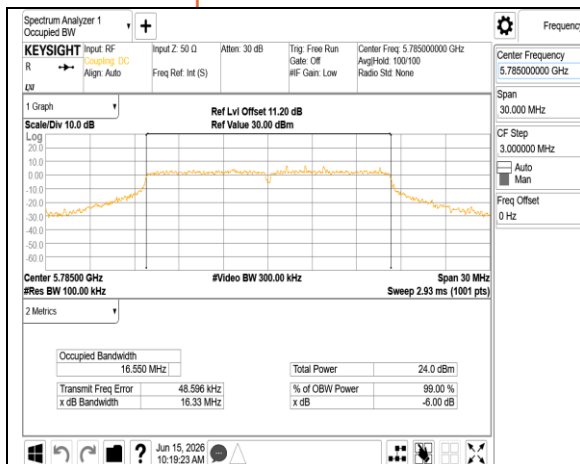
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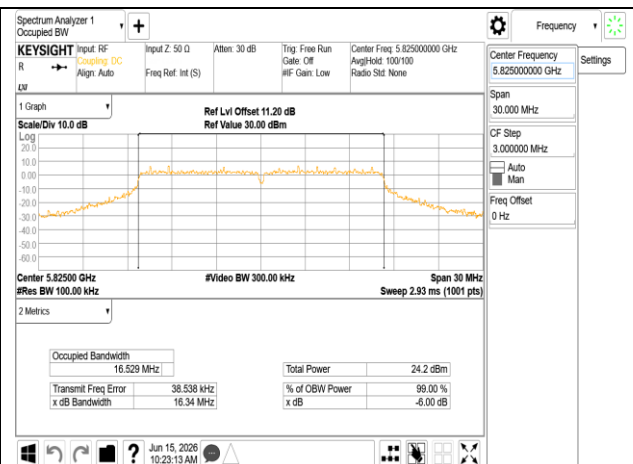
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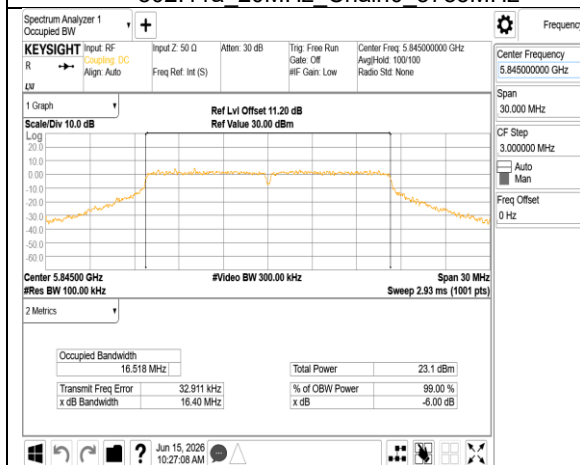
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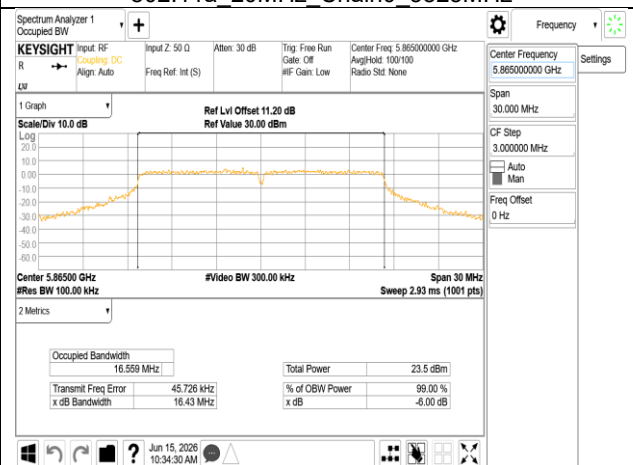
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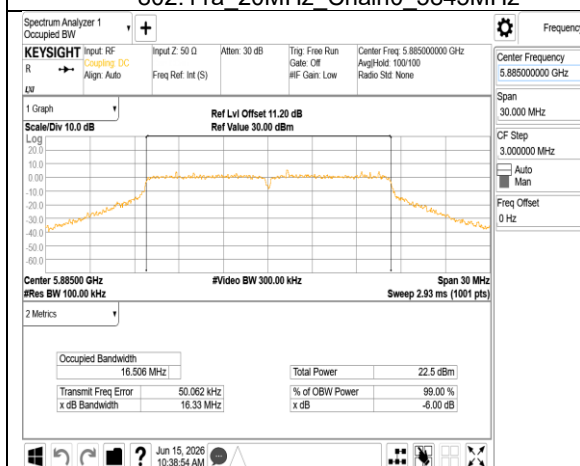
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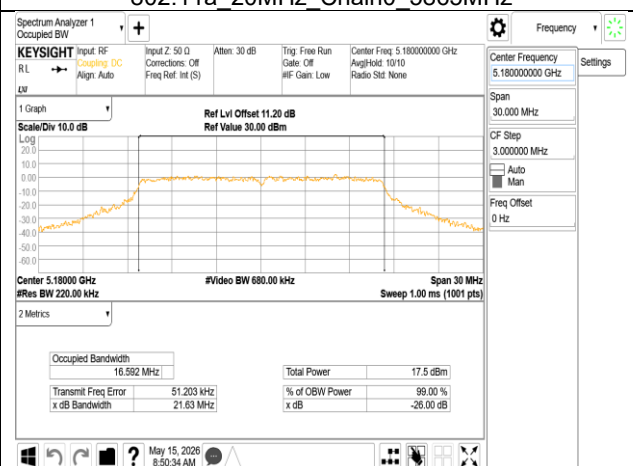
802.11a_20MHz_Chain0_5845MHz



802.11a_20MHz_Chain0_5865MHz



802.11a_20MHz_Chain0_5885MHz

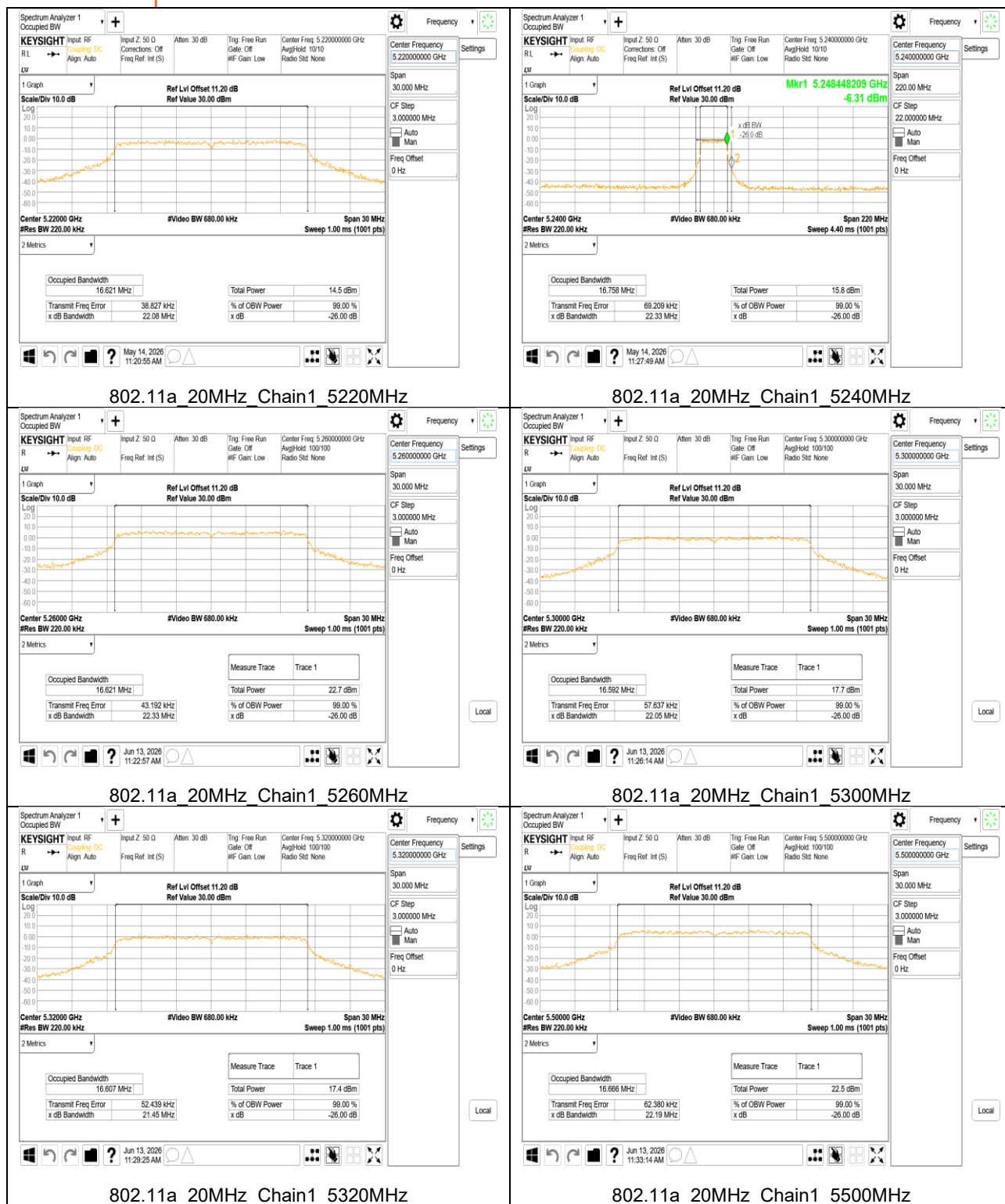


802.11a_20MHz_Chain1_5180MHz

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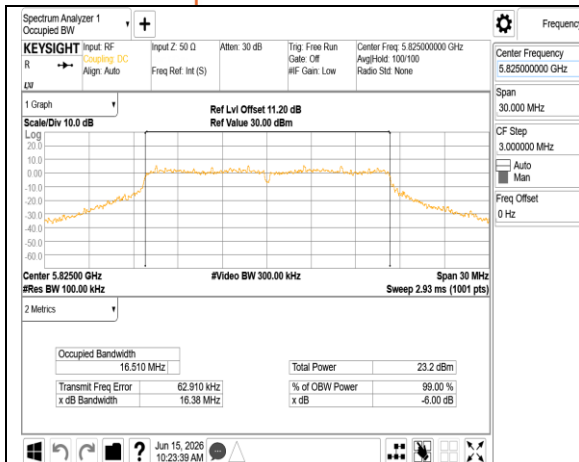
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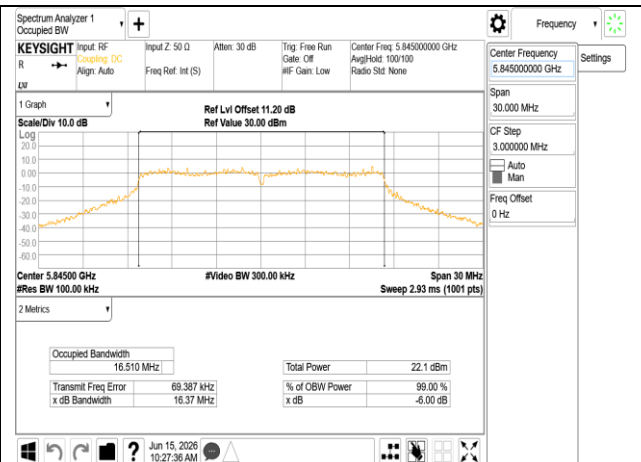
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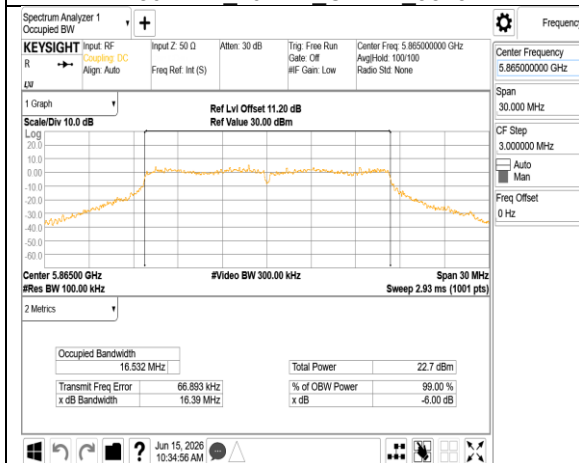
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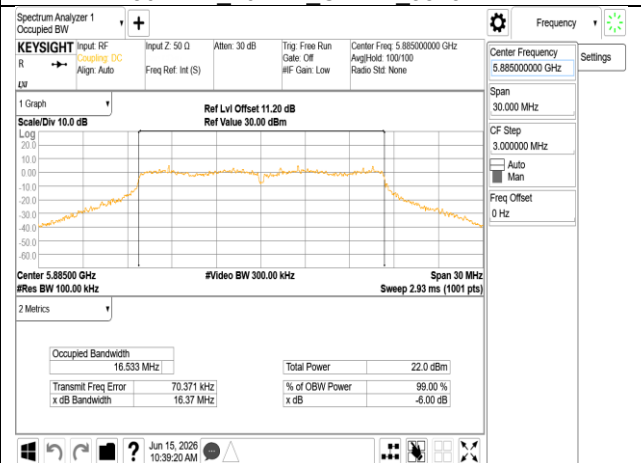
802.11a 20MHz Chain1 5825MHz



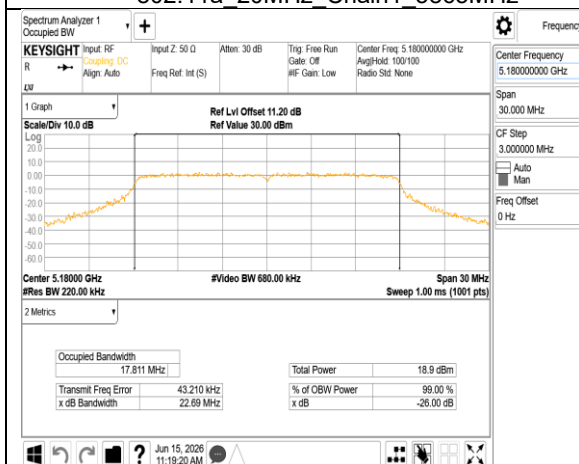
802.11a 20MHz Chain1 5845MHz



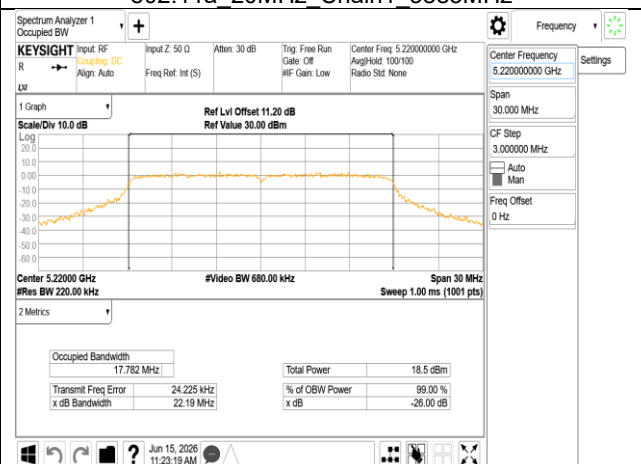
802.11a 20MHz Chain1 5865MHz



802.11a 20MHz Chain1 5885MHz



802.11n 20MHz Chain0 5180MHz



802.11n 20MHz Chain0 5220MHz

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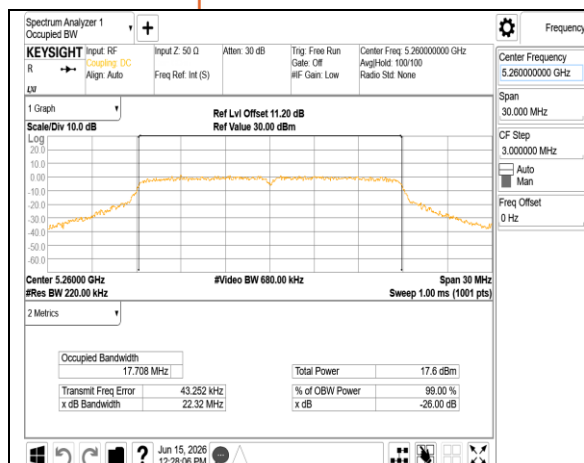
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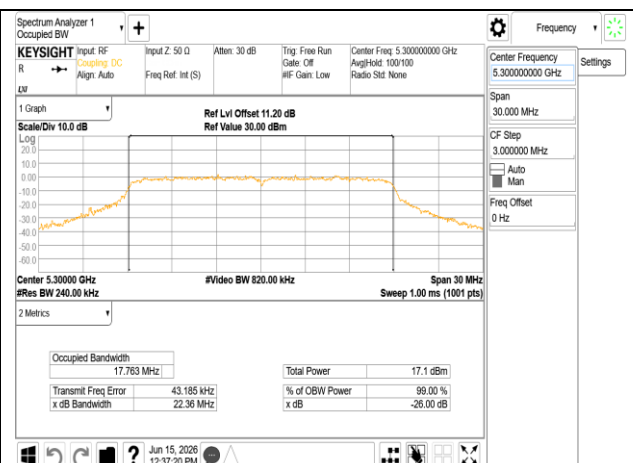
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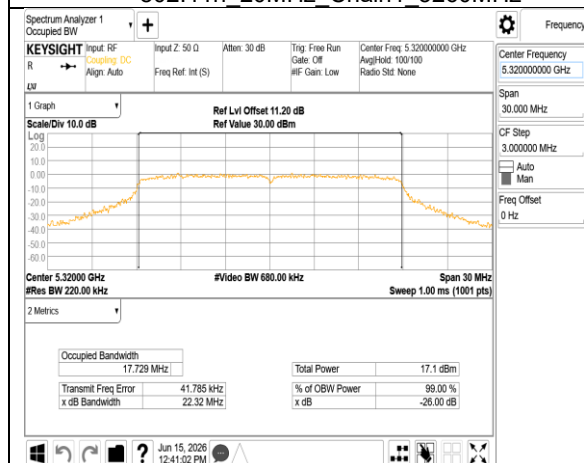
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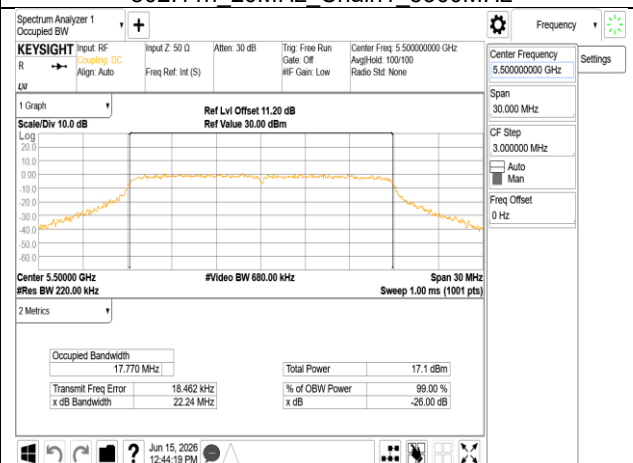
802.11n 20MHz Chain1 5260MHz



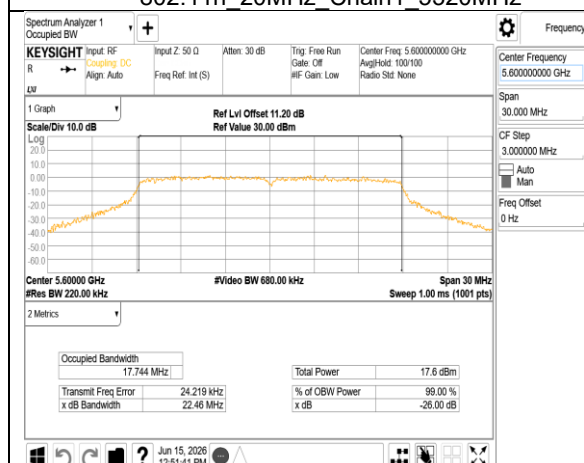
802.11n 20MHz Chain1 5300MHz



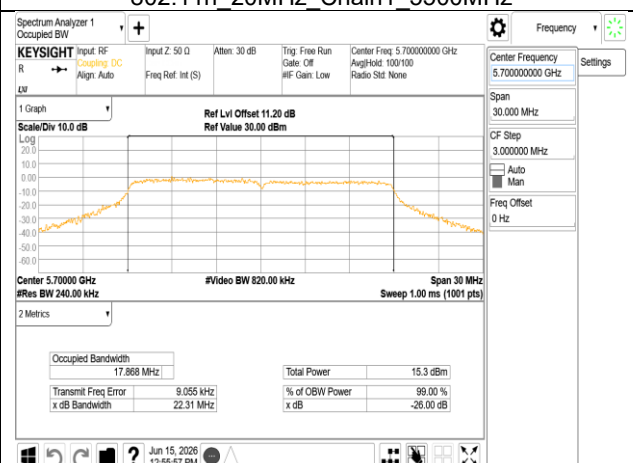
802.11n 20MHz Chain1 5320MHz



802.11n 20MHz Chain1 5500MHz



802.11n 20MHz Chain1 5600MHz

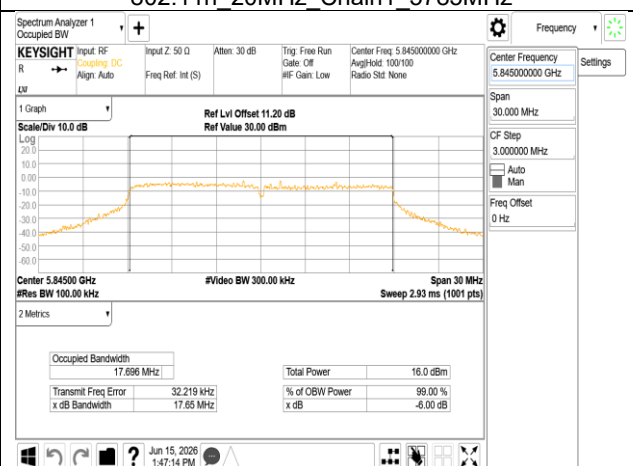
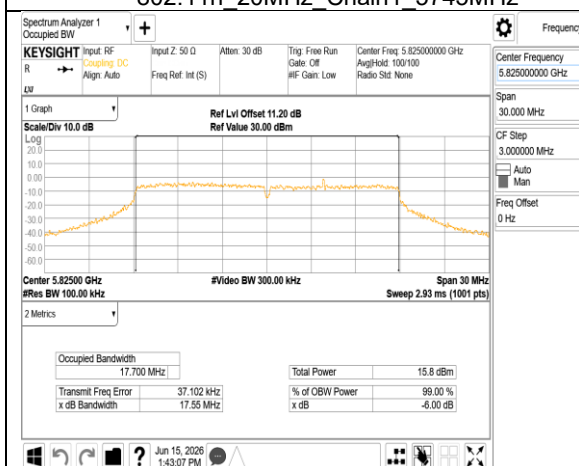
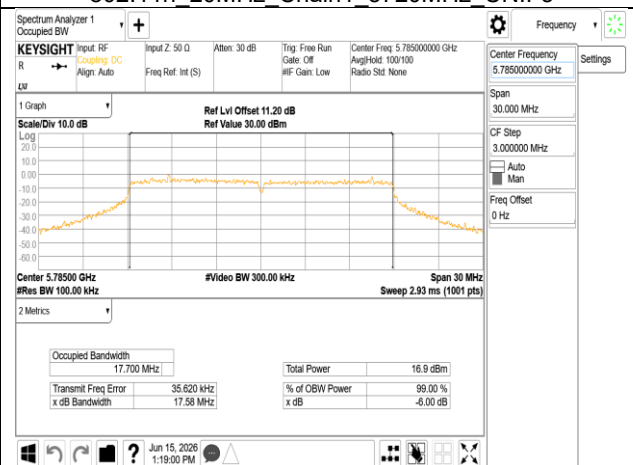
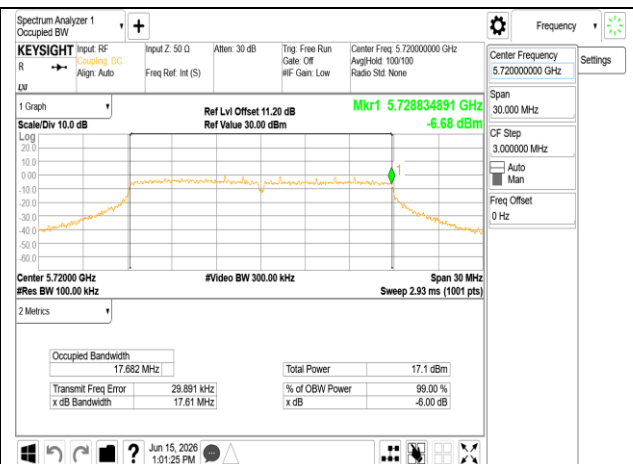
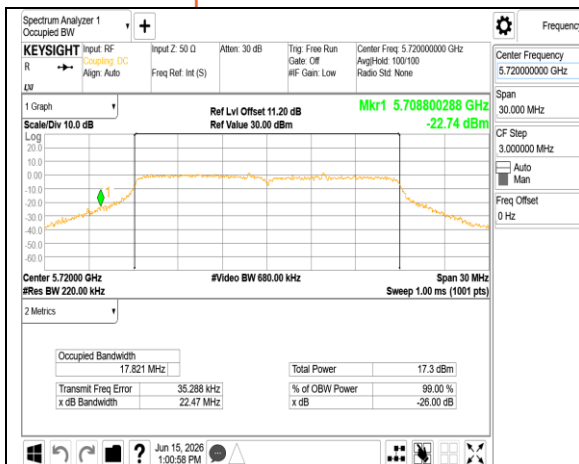


802.11n 20MHz Chain1 5700MHz

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