



TEST REPORT

Applicant: unitech electronics co., ltd.
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist.,
New Taipei City 231028, Taiwan
Equipment Type: Rugged Handheld Computer
Model Name: PA768-0D6CRMPG
Brand Name: N/A
FCC ID: HLEPA768-0D6CRMPG
Test Standard: 47 CFR Part 15 Subpart E
(refer section 3.1)
Sample Arrival Date: Jun. 22, 2026
Test Date: Jun. 29, 2026 - Aug. 07, 2026
Date of Issue: Sep. 18, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

**Prepared by:** Zhang Rujie**Reviewed by:** Hai Su**Approved by:** Zhang Yanqing
(Laboratory Manager)Zhang RujieHai SuZhang Yanqing

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Sep. 18, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	unitech electronics co., ltd.
Address	5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231028, Taiwan

2.2 Manufacturer Information

Manufacturer	unitech electronics co., ltd.
Address	5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231028, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Rugged Handheld Computer
Model Name Under Test	PA768-0D6CRMPG
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample Number	EE26040624-001-S01(conducted) EE26040631-001-S05(radiated)
Hardware Version	V1.3
Software Version	FH09W_V01.34b01
Dimensions (Approx.)	L:167mm* W:75.5mm* H:17mm
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE 1M/2M) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160), 802.11ax(HE20/40/80/160) 6G WIFI 802.11ax(HE20/40/80/160)
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-5: 5925 MHz to 6425 MHz U-NII-6: 6425 MHz to 6525 MHz U-NII-7: 6525 MHz to 6875 MHz U-NII-8: 6875 MHz to 7125 MHz	
Equipment Classes	6XD	
Modulation technology	OFDMA	
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK	
Transfer Rate (Mbps) (Single RF path)	802.11ax: up to 1201 Mbps	
Channel Bandwidth	802.11ax: 20 MHz, 40 MHz, 80 MHz, 160 MHz	
Maximum Output Power	U-NII-5: 15.48 dBm U-NII-6: 12.43 dBm U-NII-7: 14.15 dBm U-NII-8: 10.61 dBm	
Antenna System (eg., MIMO, Smart Antenna)	Multi Input Multi Output (MIMO) for 802.11ax	
Categorization as Correlated or Completely Uncorrelated	Categorization as Uncorrelated for 802.11ax	
Antenna Type	Main Antenna Aux. Antenna	PIFA Antenna
Antenna Gain	Main Antenna	U-NII-5: 5925 MHz to 6425 MHz: -1.60 dBi U-NII-6: 6425 MHz to 6525 MHz: -5.29 dBi U-NII-7: 6525 MHz to 6875 MHz: -6.71 dBi U-NII-8: 6875 MHz to 7125 MHz: -6.95 dBi
	Aux. Antenna	U-NII-5: 5925 MHz to 6425 MHz: 0.60 dBi U-NII-6: 6425 MHz to 6525 MHz: -7.03 dBi U-NII-7: 6525 MHz to 6875 MHz: -3.21 dBi U-NII-8: 6875 MHz to 7125 MHz: -3.21 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-5: 5925 MHz to 6425 MHz: 2.58 dBi U-NII-6: 6425 MHz to 6525 MHz: -3.11 dBi U-NII-7: 6525 MHz to 6875 MHz: -1.77 dBi U-NII-8: 6875 MHz to 7125 MHz: -1.87 dBi

		Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-5: 5925 MHz to 6425 MHz: -0.36 dBi U-NII-6: 6425 MHz to 6525 MHz: -6.07 dBi U-NII-7: 6525 MHz to 6875 MHz: -4.62 dBi U-NII-8: 6875 MHz to 7125 MHz: -4.69 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
	For power measurements	Correlated: U-NII-5: 5925 MHz to 6425 MHz: 2.58 dBi U-NII-6: 6425 MHz to 6525 MHz: -3.11 dBi U-NII-7: 6525 MHz to 6875 MHz: -1.77 dBi U-NII-8: 6875 MHz to 7125 MHz: -1.87 dBi Formulas: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$ dBi Uncorrelated: U-NII-5: 5925 MHz to 6425 MHz: -0.36 dBi U-NII-6: 6425 MHz to 6525 MHz: -6.07 dBi U-NII-7: 6525 MHz to 6875 MHz: -4.62 dBi U-NII-8: 6875 MHz to 7125 MHz: -4.69 dBi Formulas: Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / NANT]$ dBi
About the Product		The equipment is Rugged Handheld Computer, intended for used with information technology equipment.

Mode	Antenna		
	Main Antenna	Aux. Antenna	MIMO
802.11ax20	√	√	√
802.11ax40	√	√	√
802.11ax80	√	√	√
802.11ax160	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

802.11ax RU configuration table								
Mode	Full RU (SU)	RU_26	RU_52	RU_10 6	RU_24 2	RU_48 4	RU_9 96	RU_996* 2
802.11ax20	√	--	--	--	--	--	--	--
802.11ax40	√	--	--	--	--	--	--	--
802.11ax80	√	--	--	--	--	--	--	--
802.11ax160	√	--	--	--	--	--	--	--
Note: EUT only supports Full RU.								

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Channel List

U-NII-5/6/7/8:

20 MHz		40 MHz		80 MHz		160 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	5955	3	5965	7	5985	15	6025
5	5975	11	6005	23	6065	47	6185
9	5995	19	6045	39	6145	79	6345
13	6015	27	6085	55	6225	111	6505
17	6035	35	6125	71	6305	143	6665
21	6055	43	6165	87	6385	175	6825
25	6075	51	6205	103	6465	207	6985
29	6095	59	6245	119	6545		
33	6115	67	6285	135	6625		
37	6135	75	6325	151	6705		
41	6155	83	6365	167	6785		
45	6175	91	6405	183	6865		
49	6195	99	6445	199	6945		
53	6215	107	6485	215	7025		
57	6235	115	6525				
61	6255	123	6565				
65	6275	131	6605				
69	6295	139	6645				
73	6315	147	6685				
77	6335	155	6725				
81	6355	163	6765				
85	6375	171	6805				
89	6395	179	6845				
93	6415	187	6885				
97	6435	195	6925				
101	6455	203	6965				
105	6475	211	7005				
109	6495	219	7045				
113	6515	227	7085				
117	6535						
121	6555						
125	6575						
129	6595						
133	6615						
137	6635						
141	6655						
145	6675						

149	6695						
153	6715						
157	6735						
161	6755						
165	6775						
169	6795						
173	6815						
177	6835						
181	6855						
185	6875						
189	6895						
193	6915						
197	6935						
201	6955						
205	6975						
209	6995						
213	7015						
217	7035						
221	7055						
225	7075						
229	7095						
233	7115						

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11ax(HE20)

U-NII-5 (5925 - 6425 MHz)			U-NII-6 (6425 - 6525 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
1	Low	5955	97	Low	6435
45	Mid	6175	105	Mid	6475
93	High	6415	113	High	6515

U-NII-7 (6525 - 6875 MHz)			U-NII-8 (6875 - 7125 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
117	Low	6535	185	Low	6875
149	Mid	6715	213	Mid	7015
181	High	6855	233	High	7115

For 802.11ax(HE40)

U-NII-5 (5925 - 6425 MHz)			U-NII-6 (6425 - 6525 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
3	Low	5965	99	Low	6445
43	Mid	6165	107	Mid	6485
91	High	6405	115	High	6525

U-NII-7 (6525 - 6875 MHz)			U-NII-8 (6875 - 7125 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
123	Low	6565	187	Low	6885
155	Mid	6725	211	Mid	7005
179	High	6845	227	High	7085

For 802.11ax(HE80)

U-NII-5 (5925 - 6425 MHz)			U-NII-6 (6425 - 6525 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
7	Low	5985	103	Low	6465
39	Mid	6145	119	High	6545
87	High	6385			

U-NII-7 (6525 - 6875 MHz)			U-NII-8 (6875 - 7125 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
135	Low	6625	183	Low	6865
151	Mid	6705	199	Mid	6945
167	High	6785	215	High	7025

For 802.11ax(HE160)

U-NII-5 (5925 - 6425 MHz)			U-NII-6 (6425 - 6525 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
15	Low	6025	111	Mid	6505
47	Mid	6185			
79	High	6345			

U-NII-7 (6525 - 6875 MHz)			U-NII-8 (6875 - 7125 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
143	Low	6665	207	Mid	6985
175	High	6825			

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	U-NII-5	U-NII-6	U-NII-7	U-NII-8
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207
Power Spectral Density	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207
Radiated Spurious Emissions	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207
Band Edge (Restricted-band)	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207
Contention Based Protocol	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207
In-Band Emissions	11a	6	OFDMA	1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(20 MHz)	7.3		1/45/93	97/105/113	117/153/181	185/213/229/233
	11ax(40 MHz)	14.6		3/43/91	99/107/115	123/155/179	187/211/227
	11ax(80 MHz)	30.6		7/39/87	103/119	135/151/167	183/199/215
	11ax(160 MHz)	61.3		15/47/79	111	143/175	207

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01☆	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	KDB Publication 987594 D03v03☆	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure 6 GHz (U-NII) Devices Part 15, Subpart E
4	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
5	KDB Publication 662911 D01v02r01☆	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	Power Spectral Density	15.407(a)	ANNEX A.3	Pass
5	Conducted Emission	15.207	ANNEX A.4	Pass
6	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.5	Pass
7	Contention Based Protocol	15.407(d)	ANNEX A.6	Pass
8	In-Band Emissions	15.407(b)	ANNEX A.7	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note 2: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

3.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.40 %
RF output power, conducted	0.41 dB
Power Spectral Density, conducted	1.74 dB
Unwanted Emissions, conducted	1.74 dB
Radiated emissions (9 kHz-30 MHz)	4.00 dB
Radiated emissions (30 MHz-1 GHz)	4.40 dB
Radiated emissions (1 GHz-18 GHz)	5.20 dB
Radiated emissions (18 GHz-40 GHz)	5.60 dB
Temperature	0.82 °C
Humidity	4.08 %

3.4 Decision Rule

- ☐ No Need
- ☒ Use General Conformity Decision Rule
- ☐ Use Special Conformity Decision Rule

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	48% to 58%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.3°C to +24.8°C
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

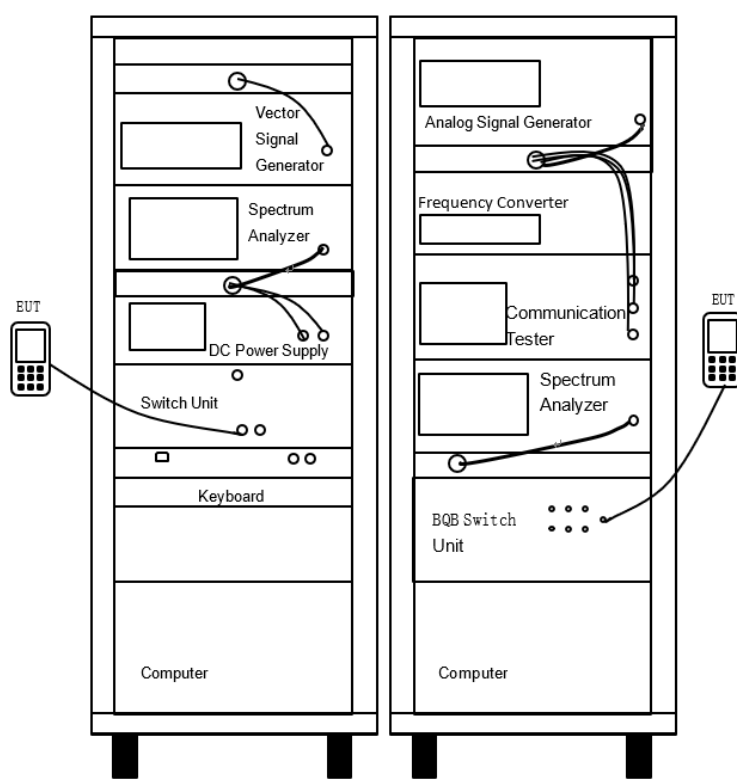
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	BH-EMC-L066	2026.02.03	2027.02.02
Spectrum Analyzer	KEYSIGHT	N9010B	BH-EMC-L099	2026.02.03	2027.02.02
Signal Generator	Anritsu	MG3710E	BH-EMC-L131	2026.02.03	2027.02.02
Wideband Radio Communication Tester	R&S	CMW500	BH-EMC-L094	2026.02.03	2027.02.02
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L015	2026.03.20	2027.03.19
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519 B	BH-EMC-L067	2024.03.11	2027.03.10
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	BH-EMC-L008	2024.03.11	2027.03.10
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	BH-EMC-L044	2024.03.11	2027.03.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2026.02.05	2027.02.04
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2026.02.04	2027.02.03
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2026.02.04	2027.02.03
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable Test Setup
BL410R	BALUN	V3.5.2.642	N/A	The section 4.4.1
BL410-E	BALUN	V21.919	N/A	The section 4.4.3&4.4.4&4.4.5
BL410-E	BALUN	V19.618	N/A	The section 4.4.2

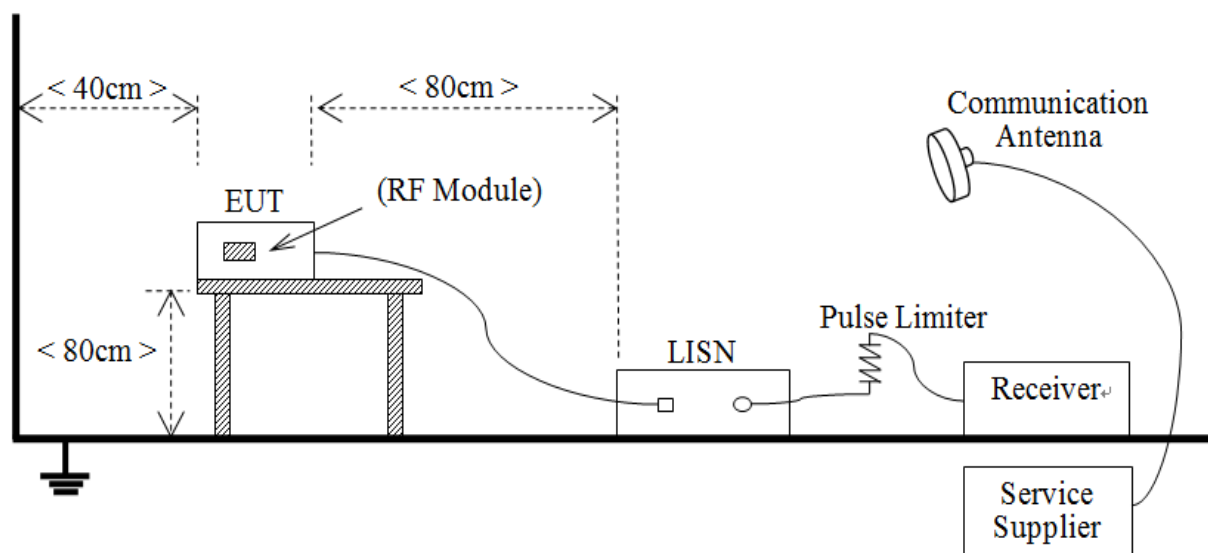
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



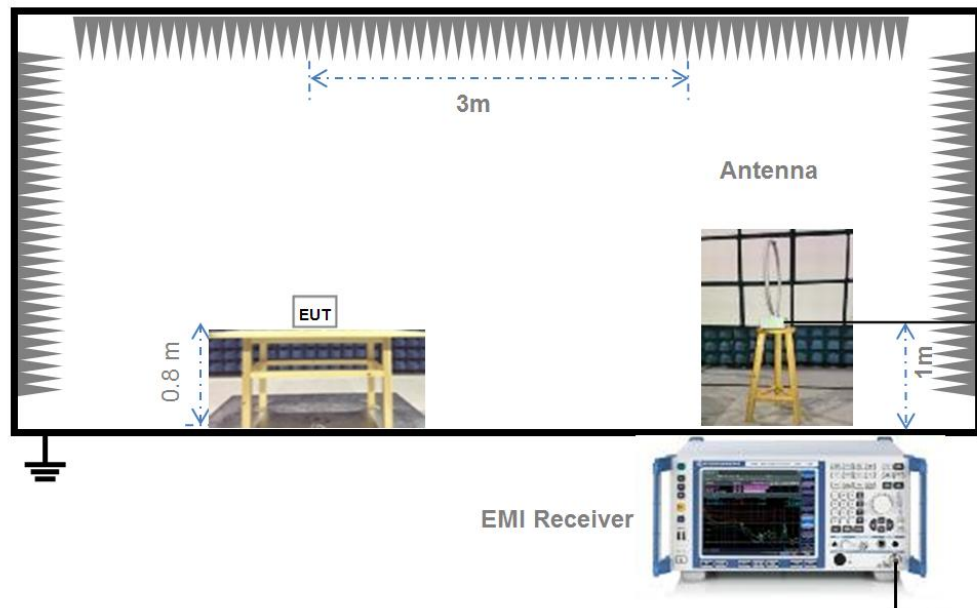
(Diagram 1)

4.4.2 For AC Power Supply Port Test



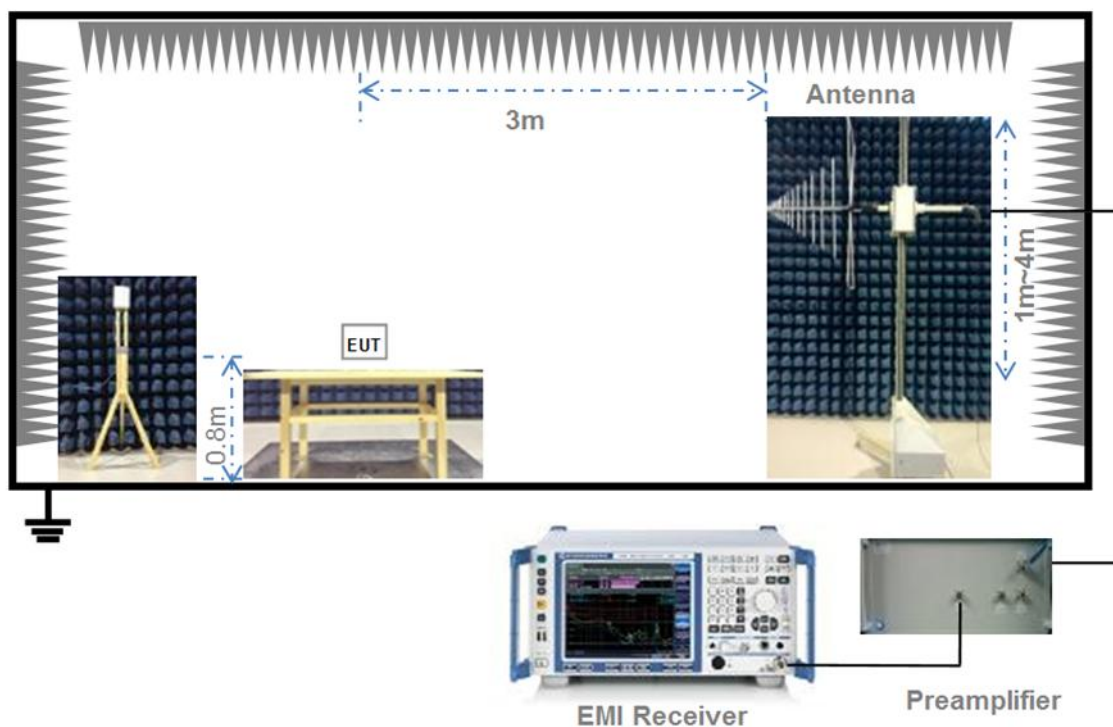
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



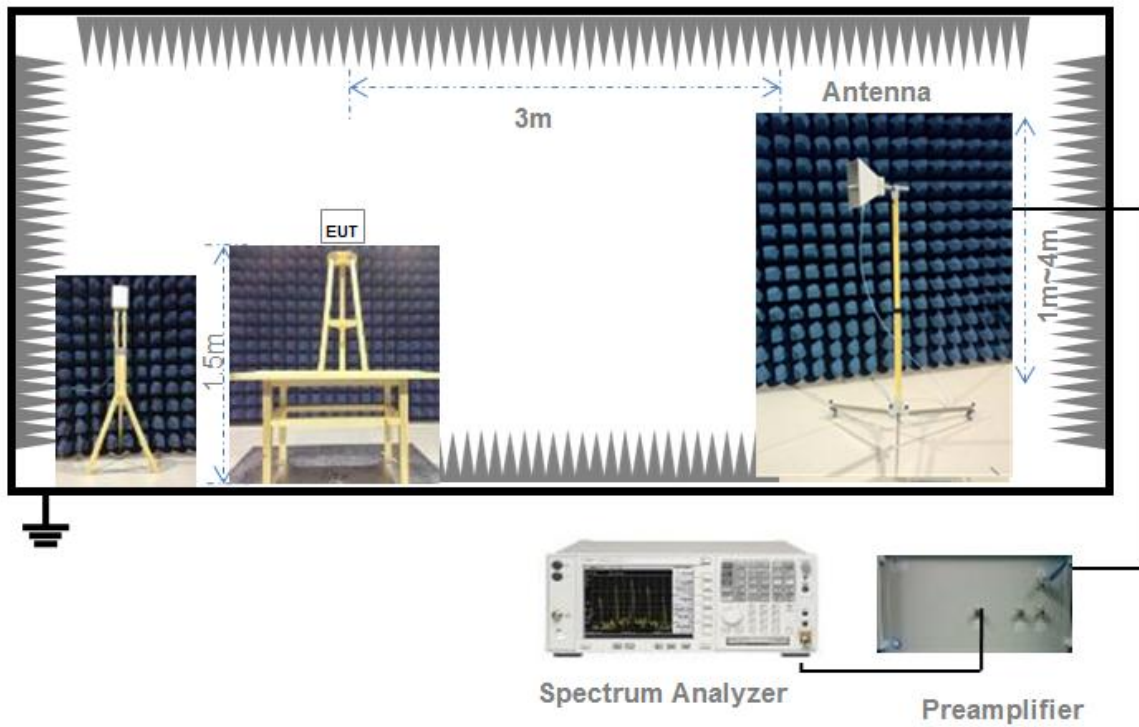
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5925-7125	24 dBm (e.i.r.p.)
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space

environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 99% Occupied Bandwidth

5.2.1 Limit

FCC §15.407(a)

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

5.2.2 Test Setup

The test setup photo please refer to 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW $\geq 3 \times$ RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW $\geq 3 \times$ RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5925-7125	-1 dBm/MHz (e.i.r.p.)

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 1 MHz,
2. VBW $\geq 3 \times$ RBW,
3. Sweep time = Auto,
4. Detector = RMS.
5. Allow the sweeps to continue until the trace stabilizes.
6. Use the peak marker function to determine the maximum amplitude level.
7. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note ¹: The Limit for radiated test was performed according to FCC Part 15C

Note ²: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5925 - 7125	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength.

5.5.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

General Procedure for conducted measurements in restricted bands

- Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)

c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
 d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).

e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
 $E = \text{EIRP} - 20\log D + 104.8$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

f) Compare the resultant electric field strength level to the applicable limit.

g) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

a) RBW = as specified in Table 1.

b) VBW $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits. The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Contention Based Protocol

5.6.1 Limit

FCC §15.15.407(d)

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The AWGN interference signal level is corrected according to the antenna gain, and the AWGN interference signal is modulated by the vector signal source. When AWGN interference exists, a spectrum analyzer is used to detect whether the EUT recognizes and stops transmission.

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 In-Band Emissions

5.7.1 Limit

FCC §15.15.407(b)

Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

- a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
- b. Suppressed by 28 dB at one channel bandwidth from the channel center.
- c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

5.7.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10.
3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.

9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

5.7.4 Test Result

Please refer to ANNEX A.7.

ANNEX A TEST RESULT

A.1 RF Output Power

Note 1: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note 2: All the configurations were tested, but only the worst data was shown in this report.

Note 3: The RF Output Power has considered the Duty Factor.

Duty Cycle

U-NII-5/6/7/8

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11ax (HE20)	1.96	2.00	98.35%	0.07
11ax (HE40)	4.03	4.13	97.46%	0.11
11ax (HE80)	2.15	2.23	96.42%	0.16
11ax (HE160)	2.11	2.15	97.86%	0.09

Test DataConducted PowerMain Antenna:

U-NII-5 (5925 - 6425MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH1	-1.54	0.70	24	Pass
11ax (HE20) (SU)	CH45	2.63	1.83	24	Pass
11ax (HE20) (SU)	CH93	3.79	2.39	24	Pass
11ax (HE40) (SU)	CH3	0.46	1.11	24	Pass
11ax (HE40) (SU)	CH43	4.89	3.08	24	Pass
11ax (HE40) (SU)	CH91	7.44	5.55	24	Pass
11ax (HE80) (SU)	CH7	3.36	2.17	24	Pass
11ax (HE80) (SU)	CH39	7.78	6.00	24	Pass
11ax (HE80) (SU)	CH87	9.75	9.44	24	Pass
11ax (HE160) (SU)	CH15	7.04	5.06	24	Pass
11ax (HE160) (SU)	CH47	7.86	6.11	24	Pass
11ax (HE160) (SU)	CH79	9.49	8.90	24	Pass

U-NII-6 (6425 - 6525MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH97	5.95	3.94	24	Pass
11ax (HE20) (SU)	CH105	6.51	4.48	24	Pass
11ax (HE20) (SU)	CH113	3.63	2.31	24	Pass
11ax (HE40) (SU)	CH99	7.48	5.60	24	Pass
11ax (HE40) (SU)	CH107	7.56	5.70	24	Pass
11ax (HE40) (SU)	CH115	8.46	7.02	24	Pass
11ax (HE80) (SU)	CH103	9.43	8.77	24	Pass
11ax (HE80) (SU)	CH119	7.98	6.28	24	Pass
11ax (HE160) (SU)	CH111	9.28	8.48	24	Pass

U-NII-7 (6525 - 6825MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH117	1.77	1.50	24	Pass
11ax (HE20) (SU)	CH153	-2.36	0.58	24	Pass
11ax (HE20) (SU)	CH181	4.00	2.51	24	Pass
11ax (HE40) (SU)	CH123	4.43	2.77	24	Pass
11ax (HE40) (SU)	CH155	3.21	2.09	24	Pass
11ax (HE40) (SU)	CH179	4.20	2.63	24	Pass
11ax (HE80) (SU)	CH135	7.64	5.81	24	Pass
11ax (HE80) (SU)	CH151	3.18	2.08	24	Pass
11ax (HE80) (SU)	CH1167	5.13	3.26	24	Pass
11ax (HE160) (SU)	CH143	7.08	5.11	24	Pass
11ax (HE160) (SU)	CH175	4.82	3.04	24	Pass

U-NII-8 (6875 - 7125MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH185	3.06	2.02	24	Pass
11ax (HE20) (SU)	CH213	1.91	1.55	24	Pass
11ax (HE20) (SU)	CH229	2.45	1.76	24	Pass
11ax (HE20) (SU)	CH233	2.71	1.87	24	Pass
11ax (HE40) (SU)	CH187	4.08	2.56	24	Pass
11ax (HE40) (SU)	CH211	4.05	2.54	24	Pass
11ax (HE40) (SU)	CH227	4.38	2.74	24	Pass
11ax (HE80) (SU)	CH183	4.14	2.59	24	Pass
11ax (HE80) (SU)	CH199	3.49	2.23	24	Pass
11ax (HE80) (SU)	CH215	2.62	1.83	24	Pass
11ax (HE160) (SU)	CH207	3.94	2.48	24	Pass

Aux. Antenna:

U-NII-5 (5925 - 6425MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH1	8.62	7.28	24	Pass
11ax (HE20) (SU)	CH45	7.50	5.63	24	Pass
11ax (HE20) (SU)	CH93	6.32	4.29	24	Pass
11ax (HE40) (SU)	CH3	11.11	12.92	24	Pass
11ax (HE40) (SU)	CH43	10.33	10.79	24	Pass
11ax (HE40) (SU)	CH91	9.18	8.28	24	Pass
11ax (HE80) (SU)	CH7	13.77	23.81	24	Pass
11ax (HE80) (SU)	CH39	13.30	21.37	24	Pass
11ax (HE80) (SU)	CH87	11.69	14.75	24	Pass
11ax (HE160) (SU)	CH15	14.81	30.30	24	Pass
11ax (HE160) (SU)	CH47	13.88	24.46	24	Pass
11ax (HE160) (SU)	CH79	13.51	22.46	24	Pass

U-NII-6 (6425 - 6525MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH97	4.85	3.06	24	Pass
11ax (HE20) (SU)	CH105	5.12	3.25	24	Pass
11ax (HE20) (SU)	CH113	6.23	4.20	24	Pass
11ax (HE40) (SU)	CH99	6.73	4.71	24	Pass
11ax (HE40) (SU)	CH107	8.78	7.55	24	Pass
11ax (HE40) (SU)	CH115	8.38	6.89	24	Pass
11ax (HE80) (SU)	CH103	6.66	4.63	24	Pass
11ax (HE80) (SU)	CH119	9.90	9.77	24	Pass
11ax (HE160) (SU)	CH111	9.54	9.00	24	Pass

U-NII-7 (6525 - 6825MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH117	7.63	5.80	24	Pass
11ax (HE20) (SU)	CH153	8.64	7.32	24	Pass
11ax (HE20) (SU)	CH181	7.85	6.10	24	Pass
11ax (HE40) (SU)	CH123	11.42	13.87	24	Pass
11ax (HE40) (SU)	CH155	11.35	13.65	24	Pass
11ax (HE40) (SU)	CH179	8.23	6.66	24	Pass
11ax (HE80) (SU)	CH135	13.06	20.22	24	Pass
11ax (HE80) (SU)	CH151	12.36	17.21	24	Pass
11ax (HE80) (SU)	CH1167	10.69	11.72	24	Pass
11ax (HE160) (SU)	CH143	10.40	10.97	24	Pass
11ax (HE160) (SU)	CH175	10.25	10.60	24	Pass

U-NII-8 (6875 - 7125MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH185	7.75	5.96	24	Pass
11ax (HE20) (SU)	CH213	8.99	7.93	24	Pass
11ax (HE20) (SU)	CH229	9.34	8.59	24	Pass
11ax (HE20) (SU)	CH233	6.97	4.98	24	Pass
11ax (HE40) (SU)	CH187	8.91	7.78	24	Pass
11ax (HE40) (SU)	CH211	9.04	8.02	24	Pass
11ax (HE40) (SU)	CH227	9.18	8.28	24	Pass
11ax (HE80) (SU)	CH183	9.19	8.30	24	Pass
11ax (HE80) (SU)	CH199	9.67	9.26	24	Pass
11ax (HE80) (SU)	CH215	9.20	8.31	24	Pass
11ax (HE160) (SU)	CH207	8.86	7.70	24	Pass

MIMO Antenna:

U-NII-5 (5925 - 6425MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH1	9.02	7.98	24	Pass
11ax (HE20) (SU)	CH45	8.73	7.46	24	Pass
11ax (HE20) (SU)	CH93	8.25	6.68	24	Pass
11ax (HE40) (SU)	CH3	11.47	14.03	24	Pass
11ax (HE40) (SU)	CH43	11.42	13.88	24	Pass
11ax (HE40) (SU)	CH91	11.41	13.83	24	Pass
11ax (HE80) (SU)	CH7	14.15	25.98	24	Pass
11ax (HE80) (SU)	CH39	14.37	27.37	24	Pass
11ax (HE80) (SU)	CH87	13.84	24.19	24	Pass
11ax (HE160) (SU)	CH15	15.48	35.36	24	Pass
11ax (HE160) (SU)	CH47	14.85	30.57	24	Pass
11ax (HE160) (SU)	CH79	14.96	31.36	24	Pass

U-NII-6 (6425 - 6525MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH97	8.45	6.99	24	Pass
11ax (HE20) (SU)	CH105	8.88	7.73	24	Pass
11ax (HE20) (SU)	CH113	8.13	6.51	24	Pass
11ax (HE40) (SU)	CH99	10.13	10.31	24	Pass
11ax (HE40) (SU)	CH107	11.22	13.26	24	Pass
11ax (HE40) (SU)	CH115	11.43	13.91	24	Pass
11ax (HE80) (SU)	CH103	11.27	13.40	24	Pass
11ax (HE80) (SU)	CH119	12.05	16.05	24	Pass
11ax (HE160) (SU)	CH111	12.43	17.48	24	Pass

U-NII-7 (6525 - 6825MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH117	8.63	7.30	24	Pass
11ax (HE20) (SU)	CH153	8.97	7.90	24	Pass
11ax (HE20) (SU)	CH181	9.35	8.61	24	Pass
11ax (HE40) (SU)	CH123	12.21	16.65	24	Pass
11ax (HE40) (SU)	CH155	11.97	15.75	24	Pass
11ax (HE40) (SU)	CH179	9.68	9.29	24	Pass
11ax (HE80) (SU)	CH135	14.15	26.03	24	Pass
11ax (HE80) (SU)	CH151	12.85	19.29	24	Pass
11ax (HE80) (SU)	CH1167	11.75	14.97	24	Pass
11ax (HE160) (SU)	CH143	12.06	16.08	24	Pass
11ax (HE160) (SU)	CH175	11.35	13.64	24	Pass

U-NII-8 (6875 - 7125MHz)					
Mode	Channel	EIRP (dBm)	EIRP (mW)	EIRP Limit (dBm)	Verdict
11ax (HE20) (SU)	CH185	9.02	7.98	24	Pass
11ax (HE20) (SU)	CH213	9.77	9.48	24	Pass
11ax (HE20) (SU)	CH229	10.15	10.35	24	Pass
11ax (HE20) (SU)	CH233	8.36	6.85	24	Pass
11ax (HE40) (SU)	CH187	10.15	10.34	24	Pass
11ax (HE40) (SU)	CH211	10.24	10.56	24	Pass
11ax (HE40) (SU)	CH227	10.42	11.03	24	Pass
11ax (HE80) (SU)	CH183	10.37	10.89	24	Pass
11ax (HE80) (SU)	CH199	10.61	11.50	24	Pass
11ax (HE80) (SU)	CH215	10.06	10.14	24	Pass
11ax (HE160) (SU)	CH207	10.08	10.18	24	Pass

A.2 Emission Bandwidth & 99% Occupied Bandwidth

Note 1: Test plots please refer to the document “Annex No.: Ti-EE26060694-605 Data Part 1.pdf”.

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 3: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

U-NII-5 (5925 - 6425MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ax (HE20) (SU)	CH1	20.92	18.89
11ax (HE20) (SU)	CH45	20.76	18.84
11ax (HE20) (SU)	CH93	20.90	18.86
11ax (HE40) (SU)	CH3	40.62	37.65
11ax (HE40) (SU)	CH43	40.71	37.55
11ax (HE40) (SU)	CH91	40.35	37.59
11ax (HE80) (SU)	CH7	81.38	76.96
11ax (HE80) (SU)	CH39	81.57	76.68
11ax (HE80) (SU)	CH87	81.53	77.06
11ax (HE160) (SU)	CH15	163.80	155.31
11ax (HE160) (SU)	CH47	164.00	155.30
11ax (HE160) (SU)	CH79	244.90	156.40

U-NII-6 (6425 - 6525MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ax (HE20) (SU)	CH97	21.02	18.88
11ax (HE20) (SU)	CH105	21.01	18.86
11ax (HE20) (SU)	CH113	21.00	18.88
11ax (HE40) (SU)	CH99	40.64	37.66
11ax (HE40) (SU)	CH107	40.24	37.73
11ax (HE40) (SU)	CH115	40.78	37.65
11ax (HE80) (SU)	CH103	82.19	77.23
11ax (HE80) (SU)	CH119	81.62	77.02
11ax (HE160) (SU)	CH111	218.70	155.53

U-NII-7 (6525 - 6825MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ax (HE20) (SU)	CH117	20.74	18.88
11ax (HE20) (SU)	CH153	20.83	18.83
11ax (HE20) (SU)	CH181	21.02	18.84
11ax (HE40) (SU)	CH123	40.21	37.66
11ax (HE40) (SU)	CH155	40.22	37.53
11ax (HE40) (SU)	CH179	40.30	37.59
11ax (HE80) (SU)	CH135	98.07	77.05
11ax (HE80) (SU)	CH151	81.47	76.84
11ax (HE80) (SU)	CH167	81.07	76.81
11ax (HE160) (SU)	CH143	238.80	155.75
11ax (HE160) (SU)	CH175	164.20	155.72

U-NII-8 (6875 - 7125MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11ax (HE20) (SU)	CH185	20.91	18.86
11ax (HE20) (SU)	CH213	20.90	18.85
11ax (HE20) (SU)	CH229	20.97	18.87
11ax (HE20) (SU)	CH233	20.92	18.88
11ax (HE40) (SU)	CH187	40.24	37.58
11ax (HE40) (SU)	CH211	40.45	37.64
11ax (HE40) (SU)	CH227	40.79	37.65
11ax (HE80) (SU)	CH183	81.96	76.84
11ax (HE80) (SU)	CH199	81.24	76.86
11ax (HE80) (SU)	CH215	82.04	76.95
11ax (HE160) (SU)	CH207	203.10	155.80

A.3 Power Spectral Density (PSD)

Note 1: Test plots please refer to the document “Annex No.: Ti-EE26060694-605 Data Part 2.pdf”.

Note 2: The PSD has considered the Duty Factor.

Test Data

Main Antenna:

U-NII-5 (5925 - 6425MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH1	-11.94	-1.00	Pass
11ax (HE20) (SU)	CH45	-7.77	-1.00	Pass
11ax (HE20) (SU)	CH93	-6.59	-1.00	Pass
11ax (HE40) (SU)	CH3	-12.52	-1.00	Pass
11ax (HE40) (SU)	CH43	-8.28	-1.00	Pass
11ax (HE40) (SU)	CH91	-7.66	-1.00	Pass
11ax (HE80) (SU)	CH7	-11.95	-1.00	Pass
11ax (HE80) (SU)	CH39	-7.71	-1.00	Pass
11ax (HE80) (SU)	CH87	-7.05	-1.00	Pass
11ax (HE160) (SU)	CH15	-11.53	-1.00	Pass
11ax (HE160) (SU)	CH47	-10.67	-1.00	Pass
11ax (HE160) (SU)	CH79	-8.87	-1.00	Pass

U-NII-6 (6425 - 6525MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH97	-4.47	-1.00	Pass
11ax (HE20) (SU)	CH105	-3.71	-1.00	Pass
11ax (HE20) (SU)	CH113	-6.50	-1.00	Pass
11ax (HE40) (SU)	CH99	-5.68	-1.00	Pass
11ax (HE40) (SU)	CH107	-5.36	-1.00	Pass
11ax (HE40) (SU)	CH115	-4.39	-1.00	Pass
11ax (HE80) (SU)	CH103	-6.03	-1.00	Pass
11ax (HE80) (SU)	CH119	-6.98	-1.00	Pass
11ax (HE160) (SU)	CH111	-8.88	-1.00	Pass

U-NII-7 (6525 - 6825MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH117	-8.18	-1.00	Pass
11ax (HE20) (SU)	CH153	-12.20	-1.00	Pass
11ax (HE20) (SU)	CH181	-6.33	-1.00	Pass
11ax (HE40) (SU)	CH123	-8.22	-1.00	Pass
11ax (HE40) (SU)	CH155	-10.03	-1.00	Pass
11ax (HE40) (SU)	CH179	-8.95	-1.00	Pass
11ax (HE80) (SU)	CH135	-7.65	-1.00	Pass
11ax (HE80) (SU)	CH151	-12.02	-1.00	Pass
11ax (HE80) (SU)	CH167	-10.67	-1.00	Pass
11ax (HE160) (SU)	CH143	-11.60	-1.00	Pass
11ax (HE160) (SU)	CH175	-13.87	-1.00	Pass

U-NII-8 (6875 - 7125MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH185	-7.30	-1.00	Pass
11ax (HE20) (SU)	CH213	-8.23	-1.00	Pass
11ax (HE20) (SU)	CH229	-7.67	-1.00	Pass
11ax (HE20) (SU)	CH233	-7.45	-1.00	Pass
11ax (HE40) (SU)	CH187	-9.10	-1.00	Pass
11ax (HE40) (SU)	CH211	-8.94	-1.00	Pass
11ax (HE40) (SU)	CH227	-8.48	-1.00	Pass
11ax (HE80) (SU)	CH183	-11.72	-1.00	Pass
11ax (HE80) (SU)	CH199	-12.44	-1.00	Pass
11ax (HE80) (SU)	CH215	-12.98	-1.00	Pass
11ax (HE160) (SU)	CH207	-19.85	-1.00	Pass

Aux. Antenna:

U-NII-5 (5925 - 6425MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH1	-1.87	-1.00	Pass
11ax (HE20) (SU)	CH45	-2.90	-1.00	Pass
11ax (HE20) (SU)	CH93	-3.63	-1.00	Pass
11ax (HE40) (SU)	CH3	-1.94	-1.00	Pass
11ax (HE40) (SU)	CH43	-2.80	-1.00	Pass
11ax (HE40) (SU)	CH91	-3.60	-1.00	Pass
11ax (HE80) (SU)	CH7	-1.58	-1.00	Pass
11ax (HE80) (SU)	CH39	-2.31	-1.00	Pass
11ax (HE80) (SU)	CH87	-3.96	-1.00	Pass
11ax (HE160) (SU)	CH15	-3.40	-1.00	Pass
11ax (HE160) (SU)	CH47	-4.98	-1.00	Pass
11ax (HE160) (SU)	CH79	-4.79	-1.00	Pass

U-NII-6 (6425 - 6525MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH97	-5.30	-1.00	Pass
11ax (HE20) (SU)	CH105	-5.28	-1.00	Pass
11ax (HE20) (SU)	CH113	-4.33	-1.00	Pass
11ax (HE40) (SU)	CH99	-6.19	-1.00	Pass
11ax (HE40) (SU)	CH107	-4.37	-1.00	Pass
11ax (HE40) (SU)	CH115	-4.88	-1.00	Pass
11ax (HE80) (SU)	CH103	-8.62	-1.00	Pass
11ax (HE80) (SU)	CH119	-5.62	-1.00	Pass
11ax (HE160) (SU)	CH111	-8.47	-1.00	Pass

U-NII-7 (6525 - 6825MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH117	-2.95	-1.00	Pass
11ax (HE20) (SU)	CH153	-1.84	-1.00	Pass
11ax (HE20) (SU)	CH181	-2.79	-1.00	Pass
11ax (HE40) (SU)	CH123	-2.09	-1.00	Pass
11ax (HE40) (SU)	CH155	-1.70	-1.00	Pass
11ax (HE40) (SU)	CH179	-5.26	-1.00	Pass
11ax (HE80) (SU)	CH135	-2.69	-1.00	Pass
11ax (HE80) (SU)	CH151	-3.50	-1.00	Pass
11ax (HE80) (SU)	CH167	-5.20	-1.00	Pass
11ax (HE160) (SU)	CH143	-8.66	-1.00	Pass
11ax (HE160) (SU)	CH175	-8.54	-1.00	Pass

U-NII-8 (6875 - 7125MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH185	-2.80	-1.00	Pass
11ax (HE20) (SU)	CH213	-2.44	-1.00	Pass
11ax (HE20) (SU)	CH229	-2.12	-1.00	Pass
11ax (HE20) (SU)	CH233	-3.36	-1.00	Pass
11ax (HE40) (SU)	CH187	-4.57	-1.00	Pass
11ax (HE40) (SU)	CH211	-4.24	-1.00	Pass
11ax (HE40) (SU)	CH227	-3.93	-1.00	Pass
11ax (HE80) (SU)	CH183	-6.97	-1.00	Pass
11ax (HE80) (SU)	CH199	-7.56	-1.00	Pass
11ax (HE80) (SU)	CH215	-6.60	-1.00	Pass
11ax (HE160) (SU)	CH207	-16.29	-1.00	Pass

MIMO Antenna:

U-NII-5 (5925 - 6425MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH1	-1.46	-1.00	Pass
11ax (HE20) (SU)	CH45	-1.67	-1.00	Pass
11ax (HE20) (SU)	CH93	-1.86	-1.00	Pass
11ax (HE40) (SU)	CH3	-1.58	-1.00	Pass
11ax (HE40) (SU)	CH43	-1.72	-1.00	Pass
11ax (HE40) (SU)	CH91	-2.16	-1.00	Pass
11ax (HE80) (SU)	CH7	-1.20	-1.00	Pass
11ax (HE80) (SU)	CH39	-1.21	-1.00	Pass
11ax (HE80) (SU)	CH87	-2.23	-1.00	Pass
11ax (HE160) (SU)	CH15	-2.78	-1.00	Pass
11ax (HE160) (SU)	CH47	-3.94	-1.00	Pass
11ax (HE160) (SU)	CH79	-3.36	-1.00	Pass

U-NII-6 (6425 - 6525MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH97	-1.85	-1.00	Pass
11ax (HE20) (SU)	CH105	-1.41	-1.00	Pass
11ax (HE20) (SU)	CH113	-2.27	-1.00	Pass
11ax (HE40) (SU)	CH99	-2.91	-1.00	Pass
11ax (HE40) (SU)	CH107	-1.83	-1.00	Pass
11ax (HE40) (SU)	CH115	-1.62	-1.00	Pass
11ax (HE80) (SU)	CH103	-4.12	-1.00	Pass
11ax (HE80) (SU)	CH119	-3.24	-1.00	Pass
11ax (HE160) (SU)	CH111	-5.66	-1.00	Pass

U-NII-7 (6525 - 6825MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH117	-1.81	-1.00	Pass
11ax (HE20) (SU)	CH153	-1.46	-1.00	Pass
11ax (HE20) (SU)	CH181	-1.20	-1.00	Pass
11ax (HE40) (SU)	CH123	-1.14	-1.00	Pass
11ax (HE40) (SU)	CH155	-1.10	-1.00	Pass
11ax (HE40) (SU)	CH179	-3.72	-1.00	Pass
11ax (HE80) (SU)	CH135	-1.48	-1.00	Pass
11ax (HE80) (SU)	CH151	-2.93	-1.00	Pass
11ax (HE80) (SU)	CH167	-4.12	-1.00	Pass
11ax (HE160) (SU)	CH143	-6.88	-1.00	Pass
11ax (HE160) (SU)	CH175	-7.42	-1.00	Pass

U-NII-8 (6875 - 7125MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11ax (HE20) (SU)	CH185	-1.48	-1.00	Pass
11ax (HE20) (SU)	CH213	-1.42	-1.00	Pass
11ax (HE20) (SU)	CH229	-1.05	-1.00	Pass
11ax (HE20) (SU)	CH233	-1.93	-1.00	Pass
11ax (HE40) (SU)	CH187	-3.26	-1.00	Pass
11ax (HE40) (SU)	CH211	-2.98	-1.00	Pass
11ax (HE40) (SU)	CH227	-2.62	-1.00	Pass
11ax (HE80) (SU)	CH183	-5.71	-1.00	Pass
11ax (HE80) (SU)	CH199	-6.34	-1.00	Pass
11ax (HE80) (SU)	CH215	-5.70	-1.00	Pass
11ax (HE160) (SU)	CH207	-14.71	-1.00	Pass

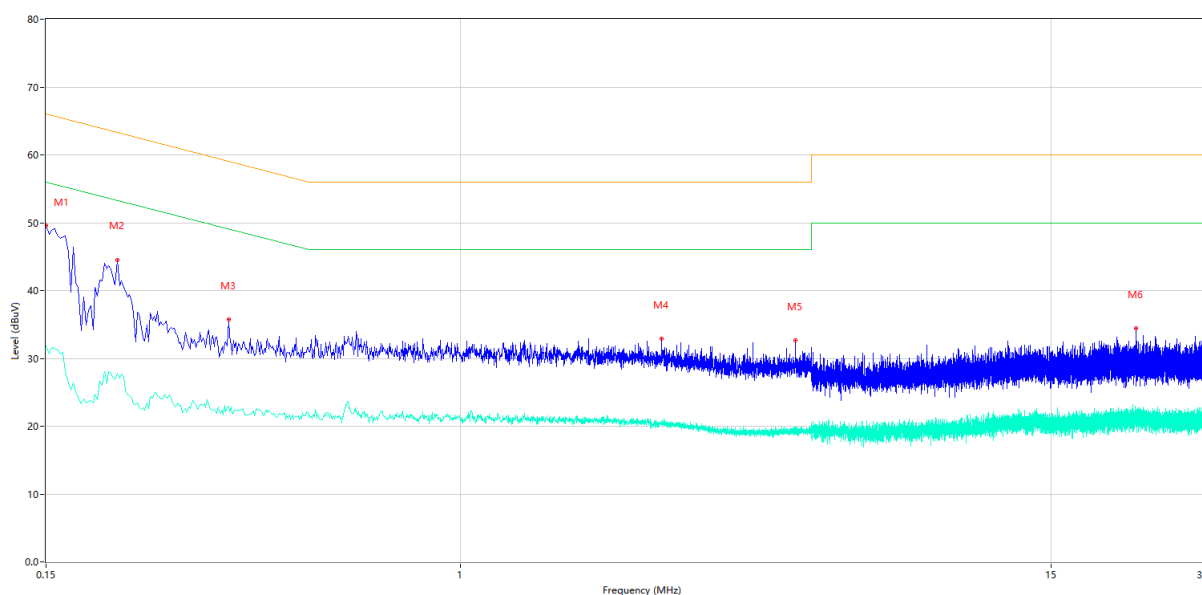
A.4 Conducted Emission

Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

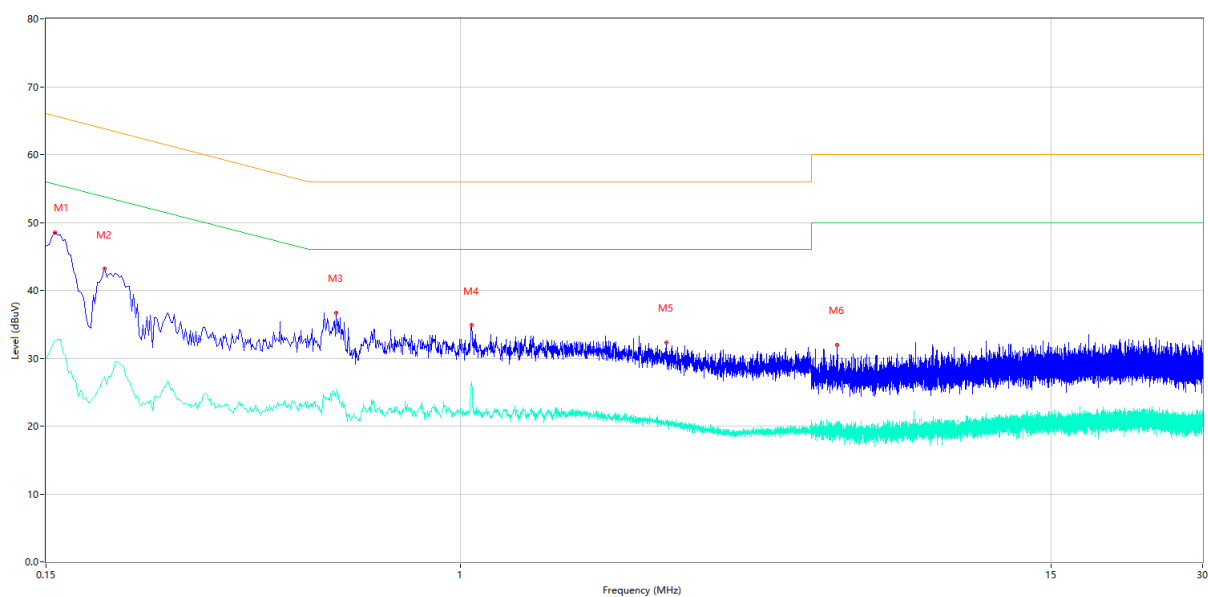
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	49.61	10.21	66.00	16.39	Peak	L	Pass
1**	0.150	31.84	10.21	56.00	24.16	AV	L	Pass
2	0.208	44.55	10.21	63.28	18.73	Peak	L	Pass
2**	0.208	27.86	10.21	53.28	25.42	AV	L	Pass
3	0.346	35.71	10.22	59.06	23.35	Peak	L	Pass
3**	0.346	22.94	10.22	49.06	26.12	AV	L	Pass
4	2.518	32.85	10.31	56.00	23.15	Peak	L	Pass
4**	2.518	20.21	10.31	46.00	25.79	AV	L	Pass
5	4.644	32.67	10.34	56.00	23.33	Peak	L	Pass
5**	4.644	20.06	10.34	46.00	25.94	AV	L	Pass
6	22.082	34.47	11.15	60.00	25.53	Peak	L	Pass
6**	22.082	21.97	11.15	50.00	28.03	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.156	48.55	10.22	65.67	17.12	Peak	N	Pass
1**	0.156	32.54	10.22	55.67	23.13	AV	N	Pass
2	0.196	43.15	10.18	63.78	20.63	Peak	N	Pass
2**	0.196	27.27	10.18	53.78	26.51	AV	N	Pass
3	0.566	36.72	10.13	56.00	19.28	Peak	N	Pass
3**	0.566	25.40	10.13	46.00	20.60	AV	N	Pass
4	1.054	34.97	10.14	56.00	21.03	Peak	N	Pass
4**	1.054	26.46	10.14	46.00	19.54	AV	N	Pass
5	2.572	32.35	10.17	56.00	23.65	Peak	N	Pass
5**	2.572	20.49	10.17	46.00	25.51	AV	N	Pass
6	5.624	32.00	10.20	60.00	28.00	Peak	N	Pass
6**	5.624	20.59	10.20	50.00	29.41	AV	N	Pass

A.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

A.5.1 Radiated Spurious Emissions

Note 1: Please refer to the document “Ti-EE26060694-605 Data Part 3.pdf”.

Note 2: The symbol of “--” in the table which means not application.

Note 3: For the test data above 1 GHz, According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 5: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note 6: The spurious above 18G is noise only, do not show on the report.

Note 7: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 8: All antenna were pre tested, but only the worst case has been reported in this report.

A.5.2 Band Edge (Restricted-band)

Note 1: Please refer to the document “Ti-EE26060694-605 Data Part 4.pdf”.

Note 2: For the test data above 1 GHz, According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 4: All antenna were pre tested, but only the worst case has been reported in this report.

A.6 Contention Based Protocol

Note: This device does not support channel puncturing mode for incumbent avoidance.

Interference Signals used for Tests

Interference Signals Type	Bandwidth (MHz)
AWGN	10

Regulated Threshold Level

Test Method	Interference threshold level
☒ Conducted	The Regulated Threshold Level = -62 dBm (assumes a 0 dBi receive antenna)
☐ Radiation	

Test Data

U-NII-5 (5925 MHz to 6425 MHz)									
Operation Mode	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected (AWGN) Power (dBm)	Antenna Gain (dBi)	Path Loss ^{Note1} (dB)	Adjusted Power ^{Note2} (dBm)	Detection Limit (dBm)	EUT Tx Status ^{Note3}
802.11ax (HE20)	37	6135	6135	-63.64	-1.60	0	-62.04	-62	Off
				-65.51	-1.60	0	-63.91	-62	Minimal
				-82.00	-1.60	0	-80.40	-62	On
802.11ax (HE160)	47	6185	6110	-63.62	-1.60	0	-62.02	-62	Off
				-65.36	-1.60	0	-63.76	-62	Minimal
				-82.00	-1.60	0	-80.40	-62	On
			6185	-63.63	-1.60	0	-62.03	-62	Off
				-65.87	-1.60	0	-64.27	-62	Minimal
				-82.00	-1.60	0	-80.40	-62	On
			6260	-63.66	-1.60	0	-62.06	-62	Off
				-65.71	-1.60	0	-64.11	-62	Minimal
				-82.00	-1.60	0	-80.40	-62	On

Note1: The corrected AWGN power is located at the antenna connection port, so path losses are not considered.

Note2: Adjusted Power (dBm) = Injected (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB).

Note3: The AWGN level is reported for the following conditions:

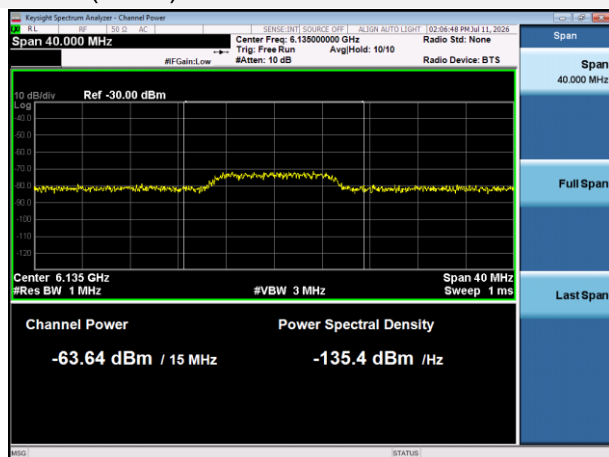
- Off: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- On: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Contention Based Protocol Detection Rate													
Detection Limit		90%											
Operation Mode	AWGN Signal Frequency (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Rate	Test Result
802.11ax (HE20)	6135	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	90%	PASS
802.11ax (HE160)	6110	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
	6185	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	90%	PASS
	6260	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS

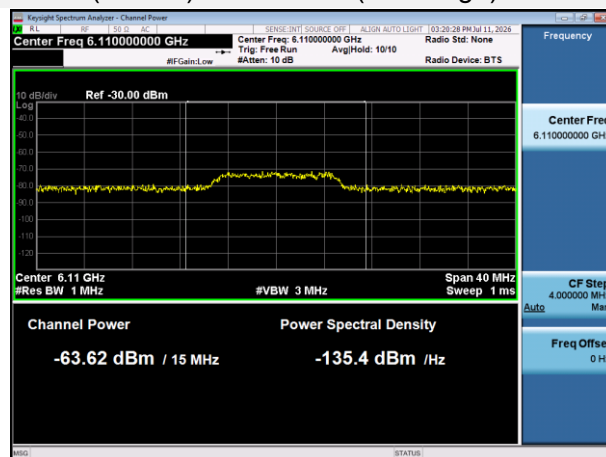
Test Plots

Plots of Incumbent signal (AWGN) Level

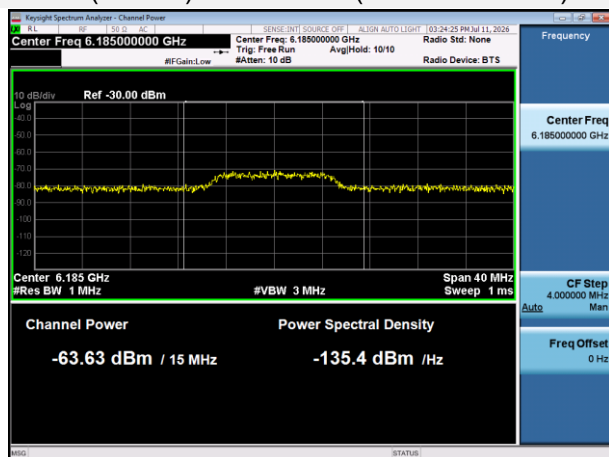
802.11ax (HE20)-Channel 53



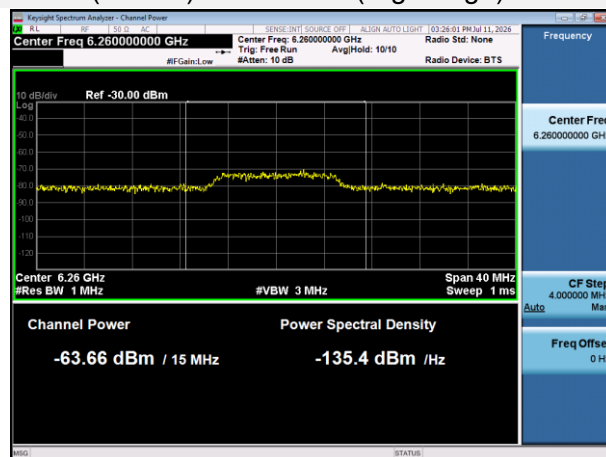
802.11ax (HE160)-Channel 47 (Low Edge)



802.11ax (HE160)-Channel 47 (Channel Center)

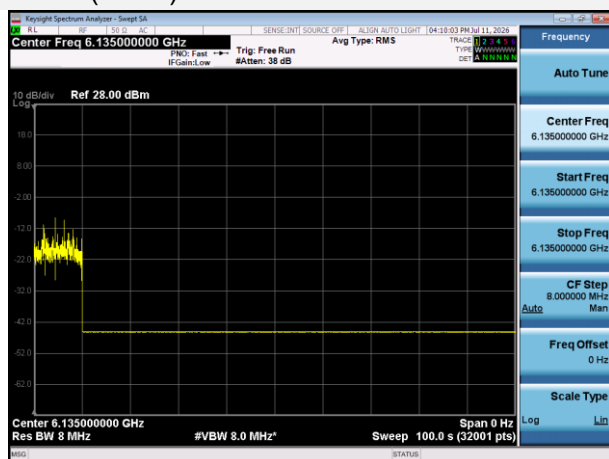


802.11ax (HE160)-Channel 47 (High Edge)

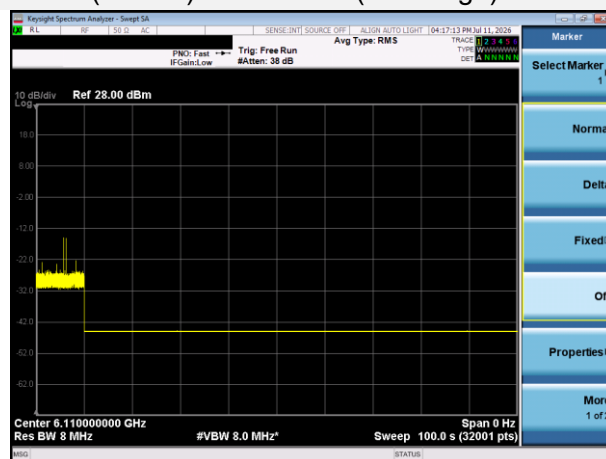


Plots of EUT Tx waveform

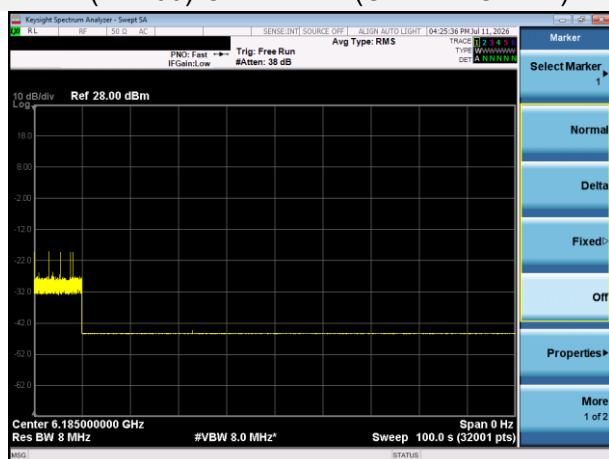
802.11ax (HE20)-Channel 53



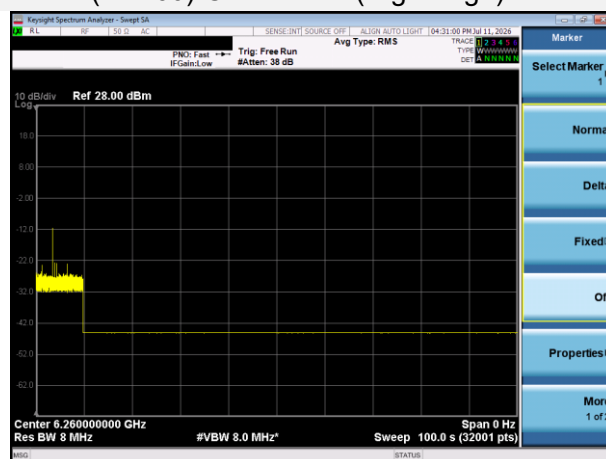
802.11ax (HE160)-Channel 47 (Low Edge)



802.11ax (HE160)-Channel 47 (Channel Center)



802.11ax (HE160)-Channel 47 (High Edge)



U-NII-6 (6425 MHz to 6525 MHz)									
Operation Mode	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected (AWGN) Power (dBm)	Antenna Gain (dBi)	Path Loss ^{Note1} (dB)	Adjusted Power ^{Note2} (dBm)	Detection Limit (dBm)	EUT Tx Status ^{Note3}
802.11ax (HE20)	97	6435	6435	-69.10	-7.03	0	-62.07	-62	Off
				-70.15	-7.03	0	-63.12	-62	Minimal
				-82.00	-7.03	0	-74.97	-62	On
802.11ax (HE160)	111	6505	6430	-69.08	-7.03	0	-62.05	-62	Off
				-70.20	-7.03	0	-63.17	-62	Minimal
				-82.00	-7.03	0	-74.97	-62	On
			6505	-69.10	-7.03	0	-62.07	-62	Off
				-70.51	-7.03	0	-63.48	-62	Minimal
				-82.00	-7.03	0	-74.97	-62	On
			6580	-69.08	-7.03	0	-62.05	-62	Off
				-70.72	-7.03	0	-63.69	-62	Minimal
				-82.00	-7.03	0	-74.97	-62	On

Note1: The corrected AWGN power is located at the antenna connection port, so path losses are not considered.

Note2: Adjusted Power (dBm) = Injected (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB).

Note3: The AWGN level is reported for the following conditions:

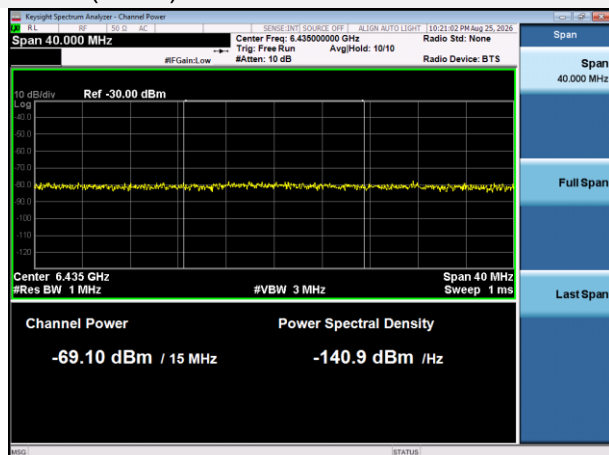
- Off: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- On: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Contention Based Protocol Detection Rate													
Detection Limit		90%											
Operation Mode	AWGN Signal Frequency (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Rate	Test Result
802.11ax (HE20)	6435	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
802.11ax (HE160)	6430	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	90%	PASS
	6505	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
	6580	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS

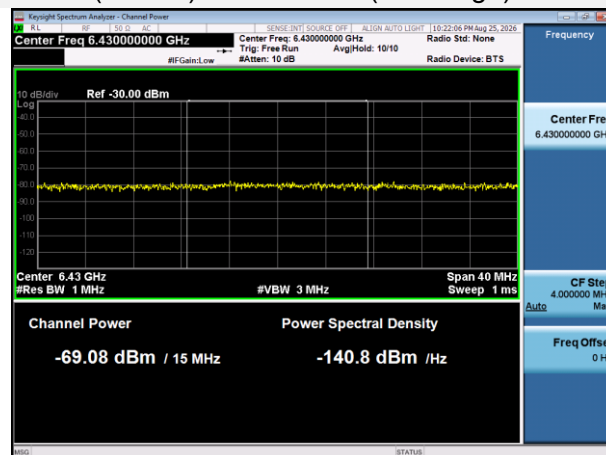
Test Plots

Plots of Incumbent signal (AWGN) Level

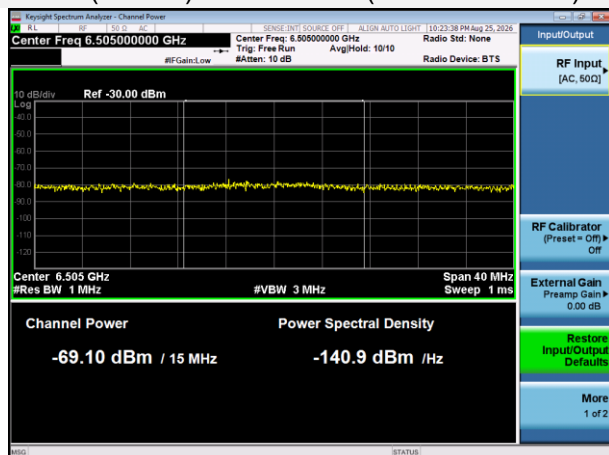
802.11ax (HE20)-Channel 101



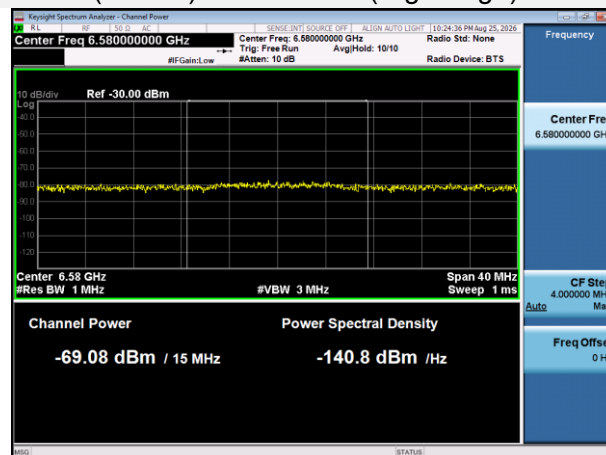
802.11ax (HE160)-Channel 111 (Low Edge)



802.11ax (HE160)-Channel 111 (Channel Center)

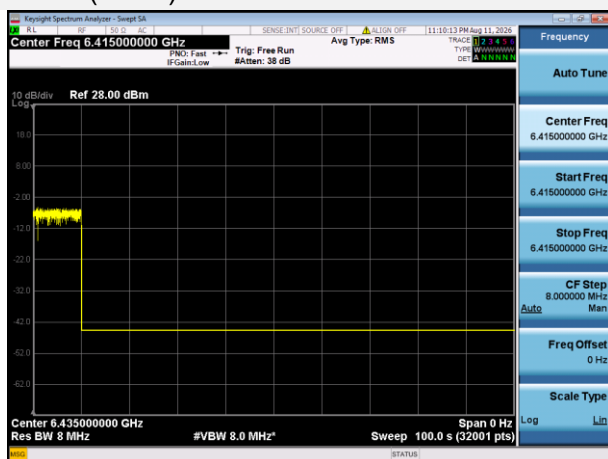


802.11ax (HE160)-Channel 111 (High Edge)

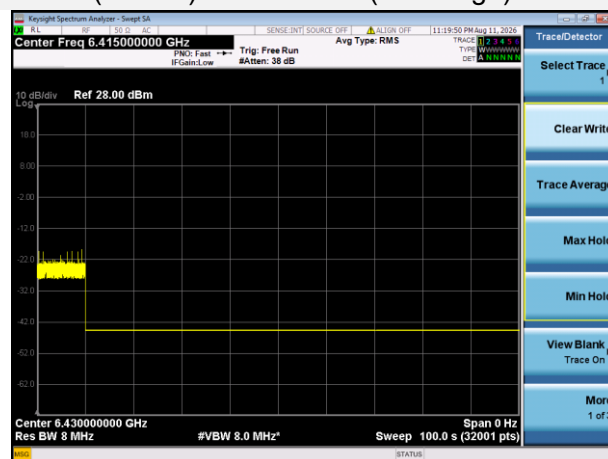


Plots of EUT Tx waveform

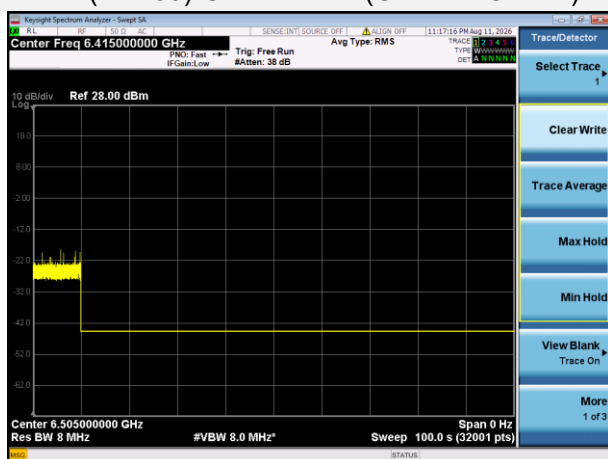
802.11ax (HE20)-Channel 101



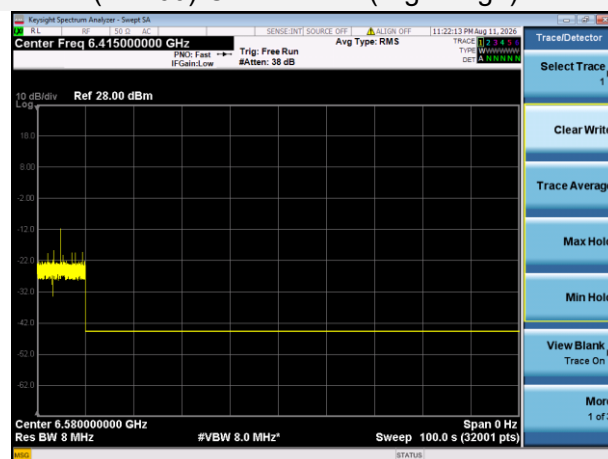
802.11ax (HE160)-Channel 111 (Low Edge)



802.11ax (HE160)-Channel 111 (Channel Center)



802.11ax (HE160)-Channel 111 (High Edge)



U-NII-7 (6525 MHz to 6875 MHz)									
Operation Mode	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected (AWGN) Power (dBm)	Antenna Gain (dBi)	Path Loss ^{Note1} (dB)	Adjusted Power ^{Note2} (dBm)	Detection Limit (dBm)	EUT Tx Status ^{Note3}
802.11ax (HE20)	129	6595	6595	-68.78	-6.71	0	-62.07	-62	Off
				-69.88	-6.71	0	-63.17	-62	Minimal
				-82.00	-6.71	0	-75.29	-62	On
802.11ax (HE160)	143	6665	6590	-68.81	-6.71	0	-62.10	-62	Off
				-69.79	-6.71	0	-63.08	-62	Minimal
				-82.00	-6.71	0	-75.29	-62	On
			6665	-68.80	-6.71	0	-62.09	-62	Off
				-69.66	-6.71	0	-62.95	-62	Minimal
				-82.00	-6.71	0	-75.29	-62	On
			6740	-68.78	-6.71	0	-62.07	-62	Off
				-69.89	-6.71	0	-63.18	-62	Minimal
				-82.00	-6.71	0	-75.29	-62	On

Note1: The corrected AWGN power is located at the antenna connection port, so path losses are not considered.

Note2: Adjusted Power (dBm) = Injected (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB).

Note3: The AWGN level is reported for the following conditions:

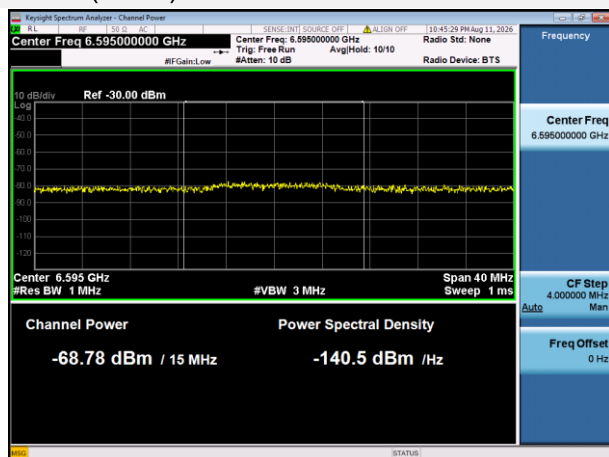
- Off: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- On: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Contention Based Protocol Detection Rate													
Detection Limit		90%											
Operation Mode	AWGN Signal Frequency (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Rate	Test Result
802.11ax (HE20)	6595	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
802.11ax (HE160)	6590	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	90%	PASS
	6665	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
	6740	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS

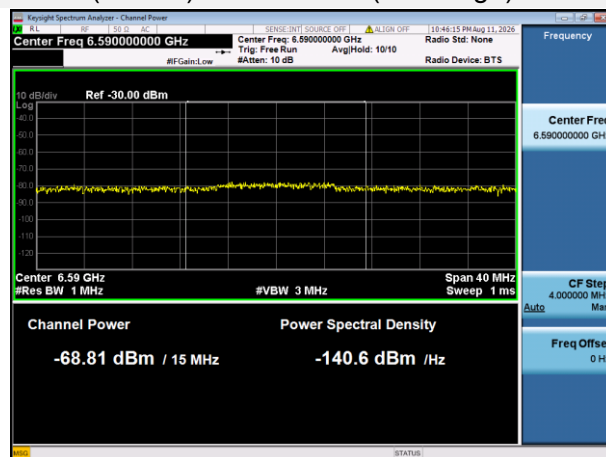
Test Plots

Plots of Incumbent signal (AWGN) Level

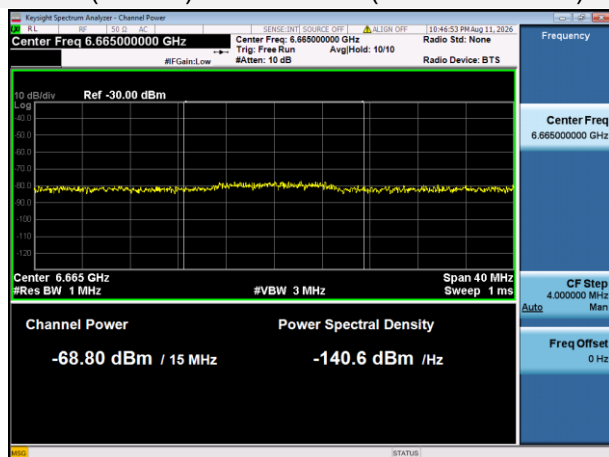
802.11ax (HE20)-Channel 149



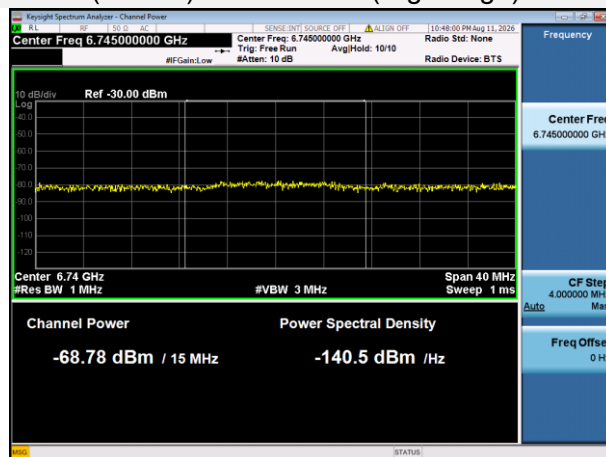
802.11ax (HE160)-Channel 143 (Low Edge)



802.11ax (HE160)-Channel 143 (Channel Center)

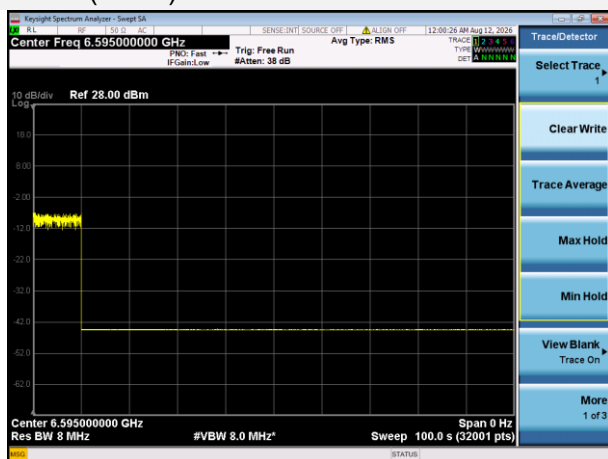


802.11ax (HE160)-Channel 143 (High Edge)

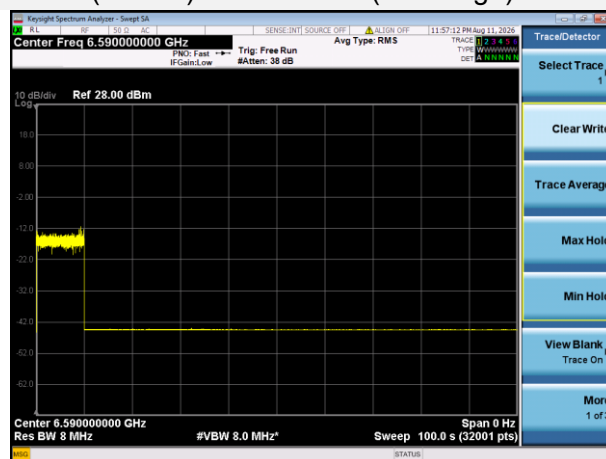


Plots of EUT Tx waveform

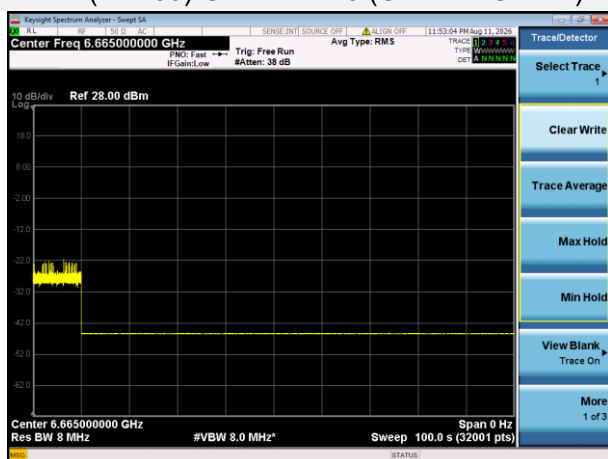
802.11ax (HE20)-Channel 149



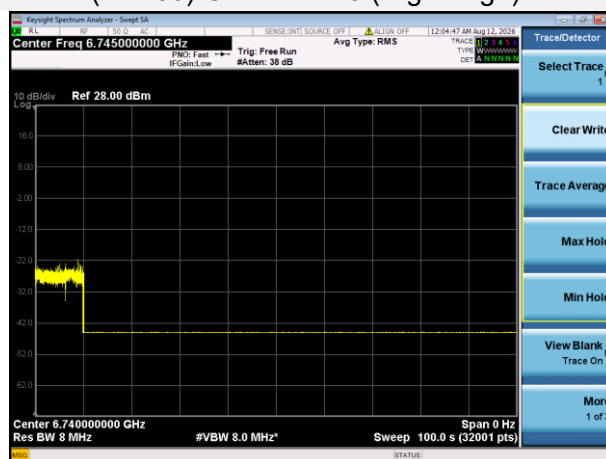
802.11ax (HE160)-Channel 143 (Low Edge)



802.11ax (HE160)-Channel 143 (Channel Center)



802.11ax (HE160)-Channel 143 (High Edge)



U-NII-8 (6875 MHz to 7125 MHz)									
Operation Mode	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Injected (AWGN) Power (dBm)	Antenna Gain (dBi)	Path Loss ^{Note1} (dB)	Adjusted Power ^{Note2} (dBm)	Detection Limit (dBm)	EUT Tx Status ^{Note3}
802.11ax (HE20)	193	6915	6915	-69.00	-6.95	0	-62.05	-62	Off
				-69.88	-6.95	0	-62.93	-62	Minimal
				-82.00	-6.95	0	-75.05	-62	On
802.11ax (HE160)	207	6985	6910	-68.98	-6.95	0	-62.03	-62	Off
				-69.79	-6.95	0	-62.84	-62	Minimal
				-82.00	-6.95	0	-75.05	-62	On
			6985	-69.04	-6.95	0	-62.09	-62	Off
				-70.82	-6.95	0	-63.87	-62	Minimal
				-82.00	-6.95	0	-75.05	-62	On
			7060	-69.05	-6.95	0	-62.10	-62	Off
				-70.93	-6.95	0	-63.98	-62	Minimal
				-82.00	-6.95	0	-75.05	-62	On

Note1: The corrected AWGN power is located at the antenna connection port, so path losses are not considered.

Note2: Adjusted Power (dBm) = Injected (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB).

Note3: The AWGN level is reported for the following conditions:

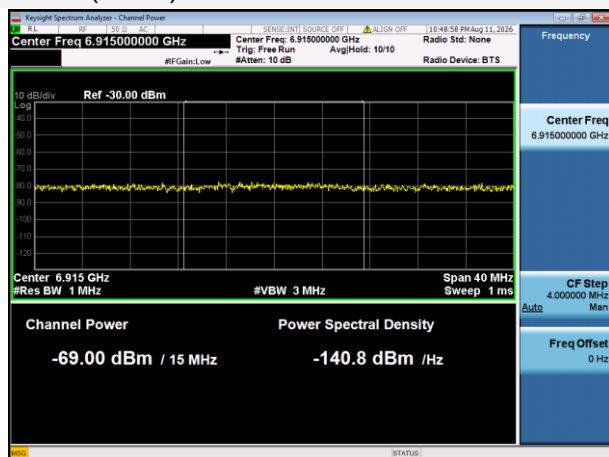
- Off: AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- On: AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Contention Based Protocol Detection Rate													
Detection Limit		90%											
Operation Mode	AWGN Signal Frequency (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Rate	Test Result
802.11ax (HE20)	6915	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
802.11ax (HE160)	6910	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
	6985	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS
	7060	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	PASS

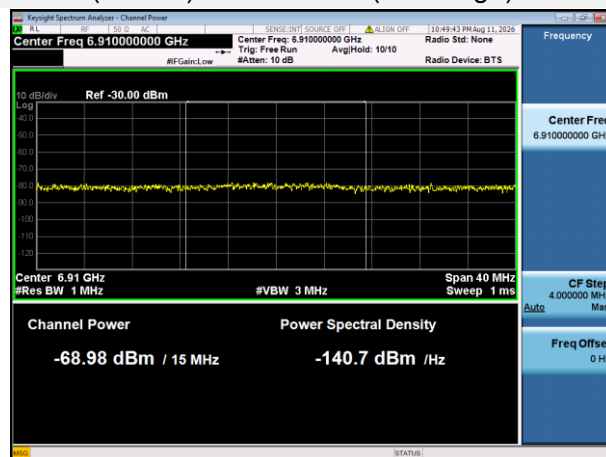
Test Plots

Plots of Incumbent signal(AWGN) Level

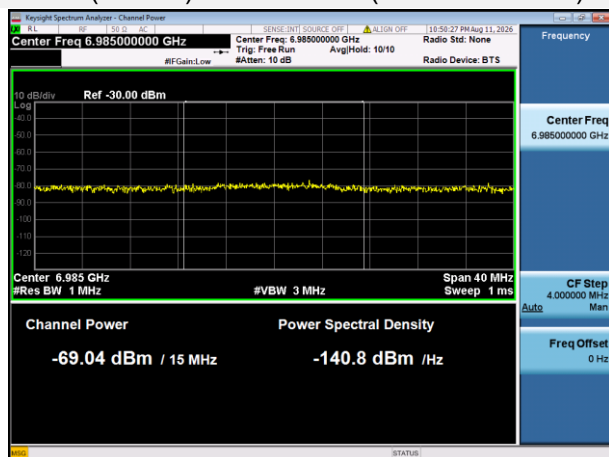
802.11ax (HE20)-Channel 193



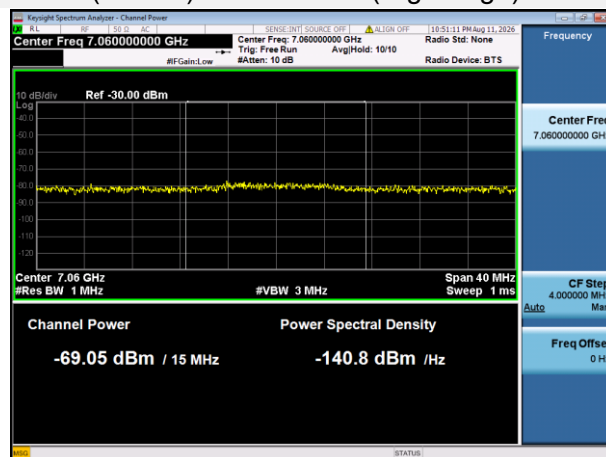
802.11ax (HE160)-Channel 207 (Low Edge)



802.11ax (HE160)-Channel 207 (Channel Center)

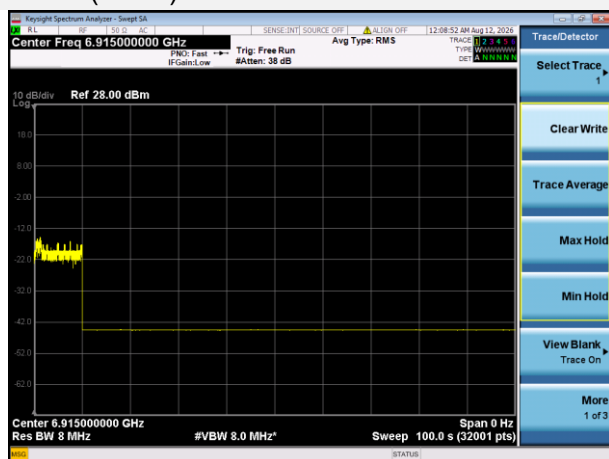


802.11ax (HE160)-Channel 207 (High Edge)

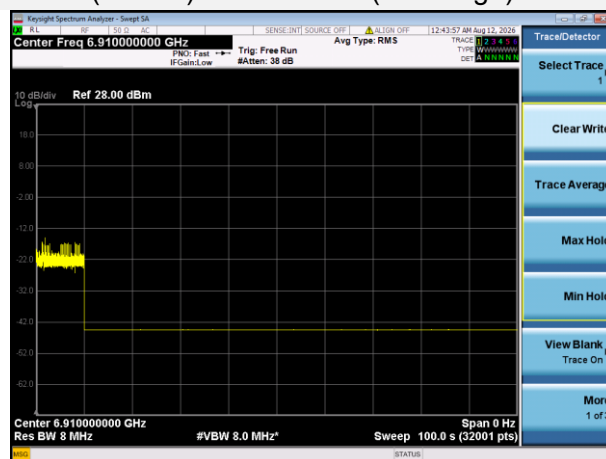


Plots of EUT Tx waveform

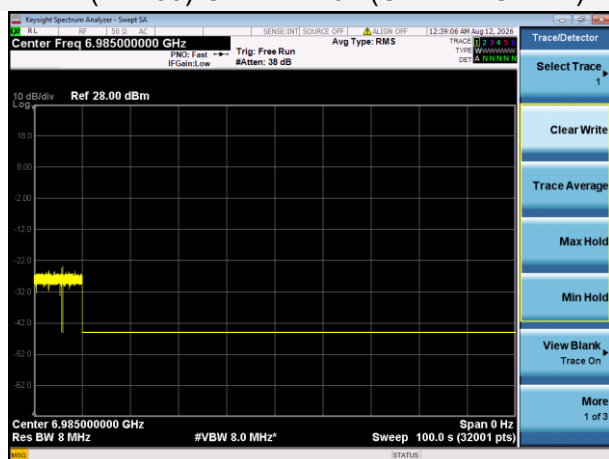
802.11ax (HE20)-Channel 193



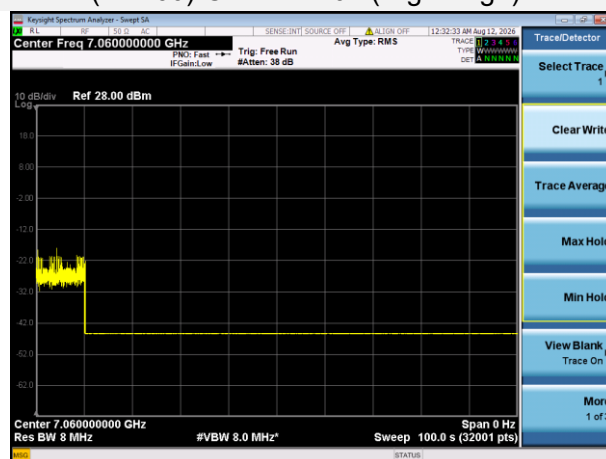
802.11ax (HE160)-Channel 207 (Low Edge)



802.11ax (HE160)-Channel 207 (Channel Center)



802.11ax (HE160)-Channel 207 (High Edge)



A.7 In-Band Emissions

Note: Please refer to the document “Ti-EE26060694-605 Data Part 5.pdf”.

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-EE26060694-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-EE26060694-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-EE26060694-AI.PDF”.

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--END OF REPORT--