

427 West 12800 South Draper, UT 84020

Test Report Certification

FCC ID	SWX-UDR7
ISED ID	6545A-UDR7
Equipment Under Test	UDR7
Test Report Serial Number	TR9641_02
Date of Tests	9-24 September; 8-31 October; 4 November 2024
Report Issue Date	27 December 2024

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc.
	685 Third Avenue
	New York, NY 10017
	U.S.A.



NVLAP LAB CODE 600241-0



Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	UDR7
FCC ID	SWX-UDR7
ISED ID	6545A-UDR7

On this 27th day of December 2024, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete, and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory

Written By: Kimberly DeBole

Reviewed By: Joseph W. Jackson



Revision History		
Revision Description Date		Date
01	Original Report Release	12/27/2024
02	Added Statement in Section 2.2 and Bandwidth Reduction Plots in Section 5.7	01/02/2025



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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance



2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	UDR7
Serial Number	168
Dimensions (cm)	11.0 x 11.0 x 18.4

2.2 Description of EUT

The UDR7 is a UniFi Desk Gateway with integrated WiFi 7 and PoE switching. The UDR7 has one 10 GbE SFP port and 4 RJ45 PoE ports. The UDR7 transmits in the 2.4 GHz, 5 GHz and 6 GHz frequency bands using internal integral antennas. The UDR7 has a Bluetooth transmitter for system management. The UDR7 is powered from 110 - 240 Volts AC Mains.

This device does not support channel puncturing.

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

Band	Modulation Bandwidth	Frequency (MHz)	Maximum Power Setting
		6435	TP10
	be (EHT20)	6475	TP10
		6515	TP13
UNII-6	$h_{\rm c}$ (EUT40)	6445	TP13
	be (EHT40)	6485	TP13
	be (EHT80)	6465	TP16
	be (EHT160)	6505	TP19

The table below show the channels used within the different modulation bandwidths.



2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: UBIQUITI MN: UDR7 SN: 168	Desktop Gateway	See Section 2.4
BN: Dell MN: XPS SN: N/A	Laptop Computer	Ethernet/un-shielded Cat 5

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
AC Mains	1	2 conductor power cable to AC mains/200 cm
10 GbE SFP WAN	1	Shielded cat 5E/7m
PoE Input	4	Unshielded Cat 5E/7m

2.5 **Operating Environment**

Power Supply	120 Volts AC Mains
AC Mains Frequency	60 Hz
Temperature	23.6 – 24.9 °C
Humidity	25.8 - 30.5 %
Barometric Pressure	1013 mBar

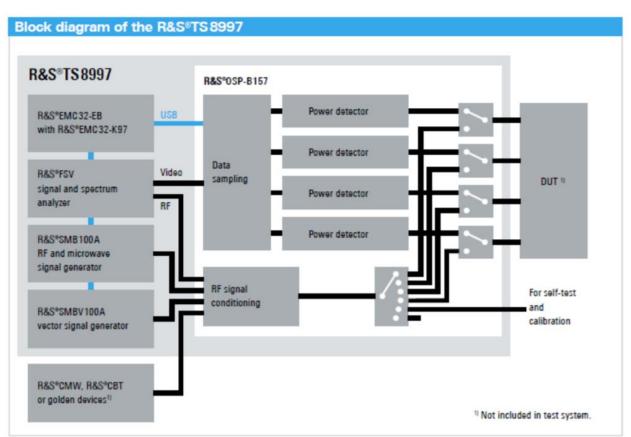
2.6 Operating Modes

The UDR7 was tested using test software in order to enable to constant transmission. All measurements are reported with the worst-case mode (802.11be) unless otherwise stated.

2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.





2.8 Block Diagram of Test Configuration

Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.203	N/A	Antenna requirements	Structural Requirement	Compliant
15.207	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(c)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	6435 to 6515	Compliant
15.407(e)	RSS-247 §6.2.2, §6.2.3	Peak Output Power ¹	6435 to 6515	Compliant
15.407(f)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions ¹	0.009 to 40000	N/A
15.407(g)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(h)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density ¹	6435 to 6515	Compliant
15.407(d)	RSS-247 §6.2.2, §6.2.3	Contention Based Protocol	6435 to 6515	Compliant

The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033, KDB 987594 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.

Note ¹: Various RU modes were considered for RF Power, PSD, and Spurious Emissions, and the "single client" RU mode is the worst case - the results herein are "single client" RU mode.

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.



3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chamber located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-6754	1/23/2024	2/26/2025
LISN	AFJ	LS16C/10	UCL-2512	7/08/2024	7/08/2025
ISN	Teseq	ISN T800	UCL-2974	7/09/2024	7/09/2025
LISN	AFJ	LS16C\10	UCL-6749	1/29/2024	1/29/2025
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

Table 1: List of equipment used for Conducted Emissions Testing at Mains Port

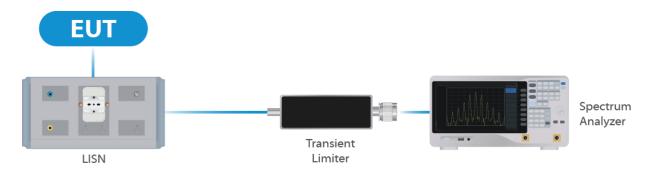


Figure 1: Conducted Emissions Test



Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	11/27/2023	11/27/2024
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP- B157WX	UCL-2867	4/12/2024	4/19/2025
Switch Extension	R&S	OSP-150W	UCL-2870	4/12/2024	4/19/2025

4.2 Direct Connect at the Antenna Port Tests

 Table 2: List of equipment used for Direct Connect at the Antenna Port

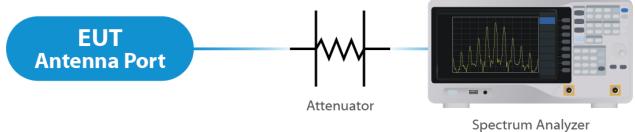


Figure 2: Direct Connect at the Antenna Port Test Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	1/25/2024	1/29/2025
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	1/19/2024	1/19/2026
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	2/22/2023	2/22/2025
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	1/11/2023	1/11/2025
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	3/10/2023	3/10/2025
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	1/27/2023	1/27/2025
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	3/10/2023	3/10/2025
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	1/19/2024	1/19/2026
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

TR9641_UDR7_FCC_15.407_UNII-6_02



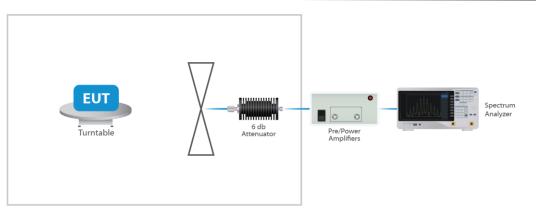


Figure 3: Radiated Emissions Test

4.3 Contention Base Protocol Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	Keysight	N9010B EXA	UCL-7069	5/3/2024	5/3/2025
Signal Generator	Keysight	MXG-B	UCL-6291	6/29/2023	6/29/2024
MIMO Test Set	Keysight	X8750A	UCL-7373	9/19/2023	9/19/2024

Table 4: List of equipment used for Direct Connect at the Antenna Port

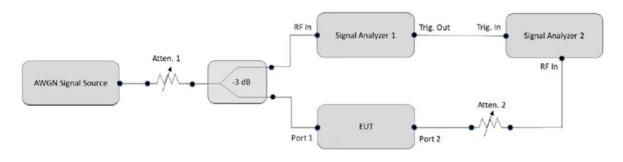


Figure 1. CBP conducted test setup diagram. Source: KDB 987594 D02 V01r01

Figure 4: Contention Base Protocol Test

4.4 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

TR9641_UDR7_FCC_15.407_UNII-6_02



4.5 Measurement Uncertainty

Test	Uncertainty (<u>+</u> dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB



5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an integral antenna. Per the manufacturer, the Maximum gain of the antenna per chain is 6 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable. For CDD transmissions, directional gain is calculated as follows.

Array Gain = 10 log(NANT/NSS) dB NANT = number of transmit antennas and NSS = number of spatial streams. NSS = 1 considered worst case.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT \leq 4; For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 3.01 dB + 6 dBi = 9.01 dBi.

Results

The EUT complied with the specification

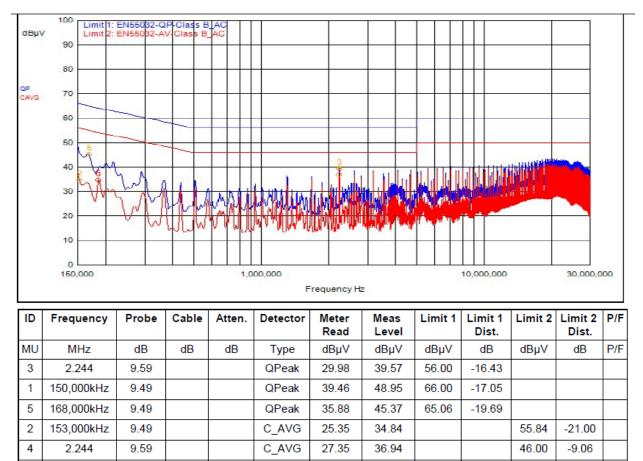


5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line

6

186,000kHz



C_AVG

25.10

34.59

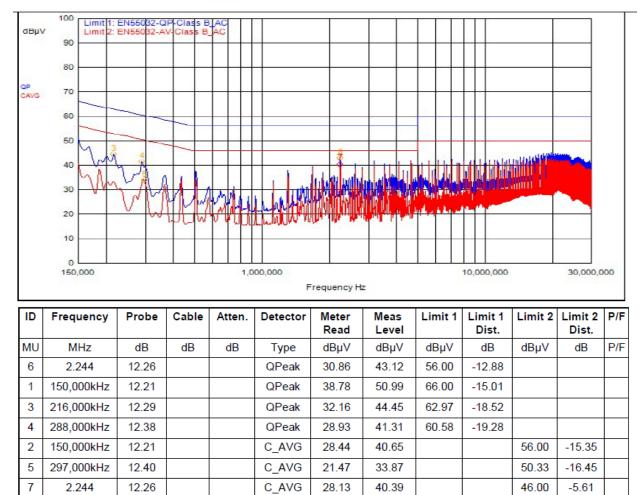
9.49

54.21

-19.63



5.2.2 Neutral



Result

The EUT complied with the specification limit.

5.3 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 662911 D01. Please see associated annex for details on instrument settings.

Nominal BW (MHz)	ominal BW (MHz) Frequency (MHz)		26 dB Bandwidth (MHz)
20	6435	19.25	23.00
20	6475	19.50	22.40
20	6515	19.50	23.30
40	6445	38.50	42.48
40	6485	38.50	43.83
80	6465	79.00	87.50
160	6505	162.50	171.00

Result

All chains were tested and the highest bandwidth per chain is reported above.

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.4 §15.407(a)(3) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 20.43 dBm or 110.41 mW. The limit is 30 dBm EIRP, or 1 Watt EIRP. The antenna has a gain of 30 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	EIRP	Measured PSD
EHT20	6435	Mcs0_Nss2	10	12.26	18.26	-1.36
EHT20	6475	Mcs0_Nss2	10	12.08	18.08	-1.23
EHT20	6515	Mcs0_Nss2	10	11.03	17.03	-2.19
EHT40	6445	Mcs0_Nss2	13	15.12	21.12	-1.15
EHT40	6485	Mcs0_Nss2	13	15.14	21.14	-1.28
EHT80	6465	Mcs0_Nss2	16	18.12	24.12	-1.02
EHT160	6505	Mcs0_Nss2	19	20.43	26.43	-1.30

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	EIRP	Measured PSD
EHT20	6435	Mcs0_Nss1	7	9.35	15.35	-4.24
EHT20	6475	Mcs0_Nss1	7	9.32	15.32	-4.09
EHT20	6515	Mcs0_Nss1	7	8.24	14.24	-4.98
EHT40	6445	Mcs0_Nss1	10	11.93	17.93	-4.22
EHT40	6485	Mcs0_Nss1	10	11.99	17.99	-4.26
EHT80	6465	Mcs0_Nss1	12	14.19	20.19	-4.92
EHT160	6505	Mcs0_Nss1	15	16.72	22.72	-4.99

Result

In the configuration tested, the maximum average RF outpower was less than 1 watt EIRP; therefore, the EUT compiled with the requirements of the specification (see spectrum analyzer plots in attached Annex).



5.5 §15.407(b)(7) Spurious Emissions

5.5.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 6 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be remain below -27 dBm EIRP.

Result

Conducted spurious emissions were attenuated below the limit; therefore, the EUT complies with the specification.

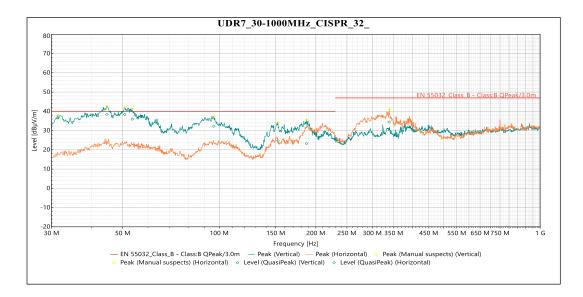
5.5.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP30.

Correction Factor = Antenna Factor + Cable Loss - Pre-Amplifier Gain, and is added to the Receiver reading.

Result

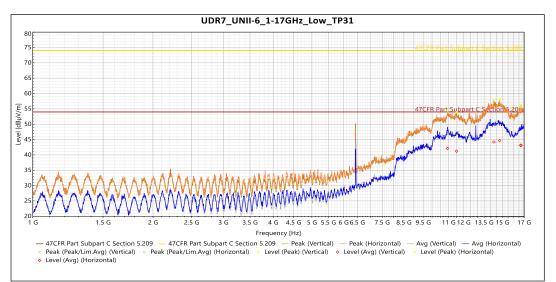
All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. See Annex for Conducted Band edge plots.





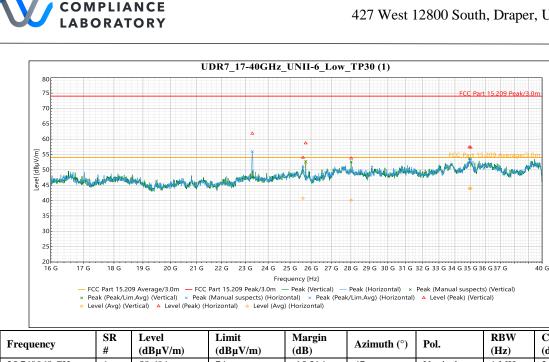
Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	RBW (Hz)	Correction (dB)
31.284297 MHz	1	36.62	40	-3.38	1	1.13	Vertical	120 kHz	-11.051
44.620356 MHz	1	38.42	40	-1.58	287	1.13	Vertical	120 kHz	-8.073
50.72325 MHz	1	38.378	40	-1.622	7	1.13	Vertical	120 kHz	-8.031
53.552573 MHz	1	35.936	40	-4.064	62	1.13	Vertical	120 kHz	-8.2
96.097179 MHz	1	32.284	40	-7.716	81	1.13	Vertical	120 kHz	-9.6
152.348416 MHz	1	24.687	40	-15.313	360	1.13	Vertical	120 kHz	-12.722
187.047116 MHz	1	23.275	40	-16.725	359	1.13	Vertical	120 kHz	-10.381
338.556796 MHz	2	34.453	47	-12.547	132	1.13	Horizontal	120 kHz	-5.67

Table 5: 30-1000MHz Radiated Emissions



Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	RBW (Hz)	Correction (dB)
11.5093075 GHz	1	53.718	74	-20.282	294	1.714	Vertical	1 MHz	10.818
14.2837351 GHz	1	57.873	74	-16.127	353	2.288	Vertical	1 MHz	13.583
16.6871736 GHz	1	56.016	74	-17.984	15	2.291	Vertical	1 MHz	13.453
11.5093075 GHz	1	41.194	54	-12.806	294	1.714	Vertical	0 Hz	10.818
14.2837351 GHz	1	44.233	54	-9.767	353	2.288	Vertical	0 Hz	13.583
16.6871736 GHz	1	43.2	54	-10.8	15	2.291	Vertical	0 Hz	13.453
10.9316819 GHz	2	54.629	74	-19.371	309	2.036	Horizontal	1 MHz	11.651
14.7665254 GHz	2	58.188	74	-15.812	262	1.718	Horizontal	1 MHz	13.987
16.6891001 GHz	2	55.771	74	-18.229	247	1.713	Horizontal	1 MHz	13.466
10.9316819 GHz	2	42.094	54	-11.906	309	2.036	Horizontal	0 Hz	11.651
14.7665254 GHz	2	44.628	54	-9.372	262	1.718	Horizontal	0 Hz	13.987
16.6891001 GHz	2	43.044	54	-10.956	247	1.713	Horizontal	0 Hz	13.466

Table 6: 1-17GHz Radiated Emissions



Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW (Hz)	Correction (dB)
25.740068 GHz	1	58.684	74	-15.316	47	Vertical	1 MHz	2.184
28.0162472 GHz	1	53.766	74	-20.234	80	Vertical	1 MHz	2.6
34.9223207 GHz	1	57.386	74	-16.614	128	Vertical	1 MHz	6.269
25.740068 GHz	1	52.071	54	-1.929	47	Vertical	0 Hz	2.184
28.0162472 GHz	1	40.136	54	-13.864	80	Vertical	0 Hz	2.6
34.9223207 GHz	1	43.976	54	-10.024	128	Vertical	0 Hz	6.269
23.3001513 GHz	2	61.847	74	-12.153	243	Horizontal	1 MHz	1.679
25.6098857 GHz	2	53.989	74	-20.011	42	Horizontal	1 MHz	3.815
35.0173435 GHz	2	57.281	74	-16.719	68	Horizontal	1 MHz	6.316
23.3001513 GHz	2	48.336	54	-5.664	243	Horizontal	0 Hz	1.679
25.6098857 GHz	2	40.758	54	-13.242	42	Horizontal	0 Hz	3.815
35.0173435 GHz	2	43.928	54	-10.072	68	Horizontal	0 Hz	6.316

Table 7: 17-40GHz Radiated Emissions

§15.407(a) Maximum Power Spectral Density 5.6

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 5 dBm EIRP in any 1 MHz band during any time interval of continuous transmission. As per KDB 662911, When the EUT is using spatial-multiplexing in HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is 6 dBi + Array gain of 3.01 dB which is a total of 9.01 dBi.

Results of this testing are summarized.

UNIFIED



Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
EHT20	6435	Mcs0_Nss2	10	12.26	-1.36
EHT20	6475	Mcs0_Nss2	10	12.08	-1.23
EHT20	6515	Mcs0_Nss2	10	11.03	-2.19
EHT40	6445	Mcs0_Nss2	13	15.12	-1.15
EHT40	6485	Mcs0_Nss2	13	15.14	-1.28
EHT80	6465	Mcs0_Nss2	16	18.12	-1.02
EHT160	6505	Mcs0_Nss2	19	20.43	-1.30

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured PSD
EHT20	6435	Mcs0_Nss1	7	9.35	-4.24
EHT20	6475	Mcs0_Nss1	7	9.32	-4.09
EHT20	6515	Mcs0_Nss1	7	8.24	-4.98
EHT40	6445	Mcs0_Nss1	10	11.93	-4.22
EHT40	6485	Mcs0_Nss1	10	11.99	-4.26
EHT80	6465	Mcs0_Nss1	12	14.19	-4.92
EHT160	6505	Mcs0_Nss1	15	16.72	-4.99

Result

The maximum average power spectral density was less than the limit of 5 dBm EIRP; therefore, the EUT complies with the specification.

5.7 §15.407(d) Contention Based Protocol

This product was tested and found to be compliant with the requirements of Contention-based Protocol as specified in FCC Part 15.407 and KDB 987594 D02.

Initially the test setup was connected directly to the signal source with all splitters (splitters terminated with a 50-ohm loads on unused ports) and cables in place to verify the AWGN signal is 10MHz wide at a signal level of less than or equal to -62dBm and for conducted measurements the threshold was adjusted for an antenna gain of 6 dBi. The level at the signal generator required to achieve the required signal level at the DUT was recorded for use during testing.

The DUT was connected as shown in figure 4 above and set to transmit at a constant duty cycle at each frequency and bandwidth noted in the table below and verified to be communicating with the companion device as intended.

Starting at the levels established above, the AWGN signal was introduced to the DUT and increased to determine a threshold level at where the DUT will terminate with at least a 90% detection rate. The level at the DUT, which the 90% detection rate was achieved was recorded as the "Sensitivity Level" below.

Testing shall be repeated at each applicable channel and bandwidth as noted in Table 1 of KDB 987594 D02.

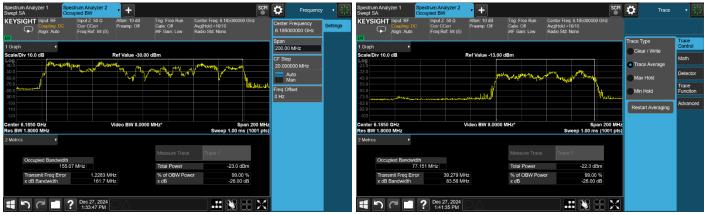


Plot 1: AWGN Signal BW Details



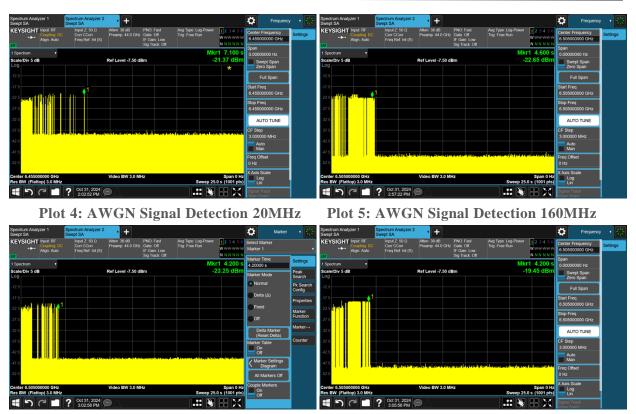


Plot 2: AWGN Signal Level Details



Plot 3: EUT 160MHz Transmission and Bandwidth Reduction (Example)





Plot 6: AWGN Signal Detection 160MHz Plot 7: AWGN Signal Detection 160MHz



		Conten	tion Based Pro	tocol 987594 D02	U-NNI 6 GHz EMC	Measurement		
Band	BWEUT	Fc1	Fc2	EU Tx Minimal (dBm)	AWGN Power (dBm)	Adjusted Power (dBm)	Limit (dBm)	Margin (dB)
	20	6135	6135	-60	-55	-74	-56	18
		6185	6110	-43	-41	-60	-56	4
UNII-5	160		6185	-41	-38	-57	-56	1
5.925 - 6.425GHz			6260	-45	-40	-59	-56	3
5.925-0.425662		6105	5965	-40	-38	-57	-56	1
	320		6105	-66	-65	-84	-56	28
			6255	-65	-60	-79	-56	23
	20	6455	6455	-55	-38	-57	-56	1
UNII-6		6505	6430	-41	-39	-58	-56	2
6.425 - 6.525GHz	160		6505	-42	-40	-59	-56	3
			6580	-45	-42	-61	-56	5
	20	6695	6695	-45	-42	-61	-56	5
	160	6665	6595	-41	-39	-58	-56	2
UN1I-7			6665	-39	-38	-57	-56	1
6.525 - 6.875GHz			6740	-41	-39	-58	-56	2
0.525-0.8750Hz	320	6745	6590	-46	-45	-64	-56	8
			6745	-56	-55	-74	-56	18
			6860	-56	-55	-74	-56	18
	20	7015	7015	-48	-41	-60	-56	4
UNII-8	160	6985	6910	-40	-38	-57	-56	1
6.875 - 7.125GHz			6985	-41	-39	-58	-56	2
			7060	-40	-39	-58	-56	2
Min. Antenna Gai	n (dBi)	6	1		Ports	Path Loss (dB)	1	AWGN Clock
Max Threshold Level (TL)		-56			FJ2, FJ3	-19	1	20MHz

 Table 8: Trial Table

Result

The EUT complies with the specification.



427 West 12800 South, Draper, UT 84020

-- End of Test Report --