



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-UFWIFI6
ISED ID	6545A-UFWIFI6
Equipment Under Test	UF-WiFi6
Test Report Serial Number	TR6538_02
Date of Tests	29-30 September; 1, 4, 6, 11 October 2021
Report Issue Date	15 October 2021

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	UFiber
Model Number	UF-WiFi6
FCC ID	SWX-UFWIFI6
ISED ID	6545-UFWIFI6

On this 13th day of October 2021, 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 Rodriguez



Reviewed By: Richard L. Winter

Revision History		
Revision	Description	Date
01	Original Report Release	15 October 2021
02	Amended Sections 5.1 and 5.6	18 October 2021

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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	Mark Feil
Title	Compliance Manager

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UFiber
Model Number	UF-WiFi6
Serial Number	68D79A1FA44A
Dimensions (cm)	14.08 x 14.15 x 3.17

2.2 Description of EUT

The UF-WiFi6 GPON CPE is a point-to-multipoint WiFi 6 device that provides 2.4 Gbps downstream rate and 1.2 Gbps upstream rate. The UF-WiFi6 has 4 GbE RJ45 LAN ports and 1 GPON WAN port for connection the local fiber line. The UF-WiFi6 has a 2.4 GHz (2x2) WiFi transmitter and a 5 GHz (2x2) WiFi transmitter. The UF-WiFi6 can be powered from a USB-C power adapter or a 24V PoE power adapter.

Band	WiFi Mode	Modulation Bandwidth	Modulation Type	Frequency (MHz)
UNII-1	a	20 MHz	OFDM	5180, 5200, 5210, 5240
	n	20 MHz	HT	5180, 5200, 5210, 5240
	n	40 MHz	HT	5190, 5230
	ac	20 MHz	VHT	5180, 5200, 5210, 5240
	ac	40 MHz	VHT	5190, 5230
	ac	80 MHz	VHT	5210
	ax	20 MHz	HE	5180, 5200, 5210, 5240
	ax	40 MHz	HE	5190, 5230
	ax	80 MHz	HE	5210

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.

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: UFiber MN: UF-WiFi6	Point-to-Point / Point-to-Multi-Point Transceiver	PoE – Shielded RJ-45 Input (4 meters) See Section 2.4 (Note 2)

SN: 68D79A1FA44A		
BN: Ubiquiti In. MN: POE-24V-5X-HD SN: N/A	PoE Power supply	See Section 2.4
BN: Ubiquiti In. MN: GP-MO15-QC SN: N/A	USB-C Power Adapter	See Section 2.4
BN: Dell MN: XPS SN: N/A	Laptop Computer	Ethernet Non-Shielded Cat 5e to PoE PSU

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
GPON WAN Port	1	APC/APC Cable
RJ45 Gigabit LAN Port	4	Shielded Cat 5e cable
PSU USB-C DC Jack	1	3 Conductor Cable to Power Adapter (24V, 0.5A)

2.5 Operating Environment

Power Supply	120/240 VAC
AC Mains Frequency	50/60 Hz
Temperature	20.7-22.5°C
Humidity	27.7-41.6%
Barometric Pressure	1001.36 mBar

2.6 Operating Modes

The UF-WiFi6 was tested using test software in order to enable a constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 a/n/ac/ax were investigated. All measurements are reported with the worst-case mode (802.11ax) 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

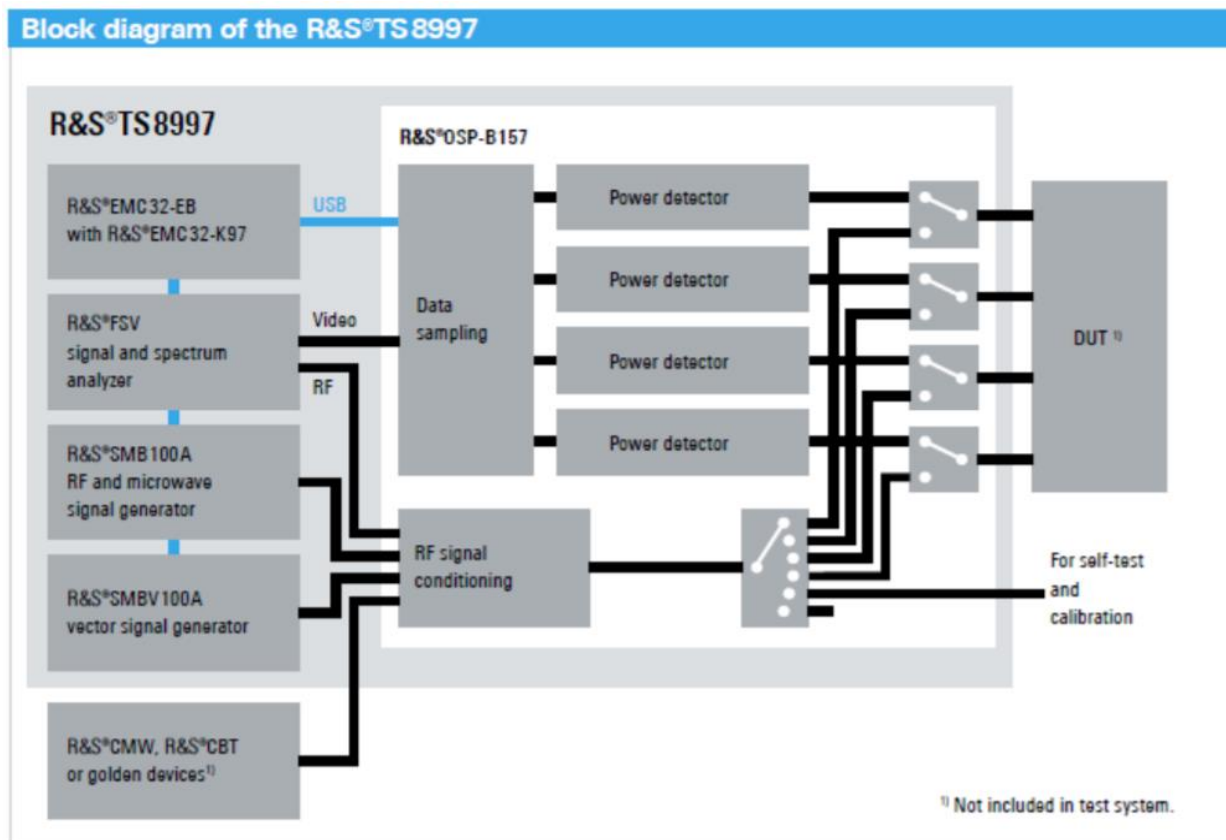


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

The following modifications were made to the EUT by the Client during testing to comply with the specification. This report is not complete without an accompanying signed attestation, that the product will have all the documented modification incorporated into the product when manufactured and place on the market.

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
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	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	5180 to 5240	Compliant
15.407(e)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5180 to 5240	Compliant
15.407(f)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	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	5180 to 5240	Compliant

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

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 2022. 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 2022. Unified Compliance Laboratory has been assigned 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-2500	9/18/2020	3/17/2022
LISN	AFJ	LS16C/10	UCL-2512	5/26/2020	5/26/2022
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	5/18/2020	5/18/2022
ISN	Teseq	ISN T800	UCL-2974	6/4/2021	6/4/2022
LISN	Com-Power	LIN-120C	UCL-2612	5/19/2021	5/19/2022
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

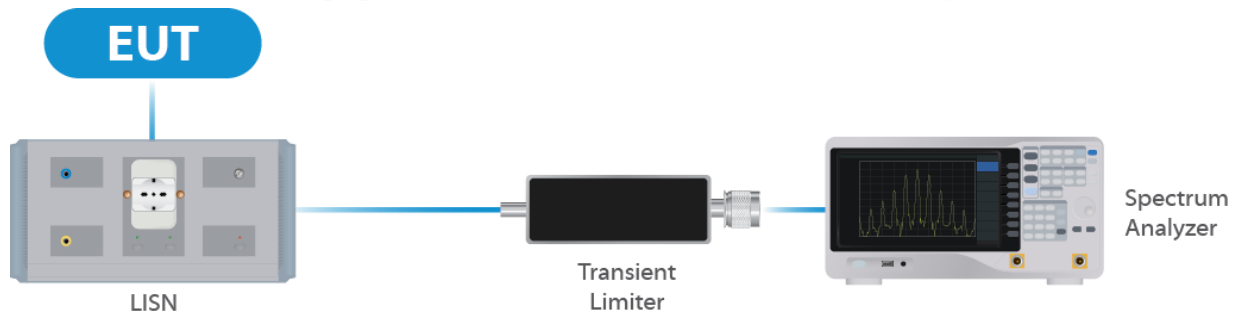


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	8/24/2020	10/23/2021
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	9/8/2020	10/24/2021
Switch Extension	R&S	OSP-150W	UCL-2870	3/3/2021	3/3/2022

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

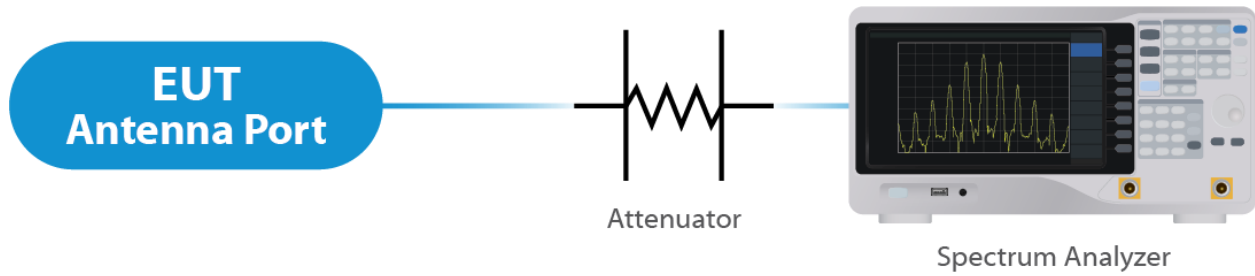


Figure 2: Direct Connect at the Antenna Port Test



Figure 3: Output Power Measurement

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	6/21/2021	6/21/2022
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	10/07/2021	10/07/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	8/28/2020	8/27/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	5/19/2020	5/19/2022
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	7/8/2021	7/8/2022
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2021
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2022
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	10/07/2021	10/07/2022
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

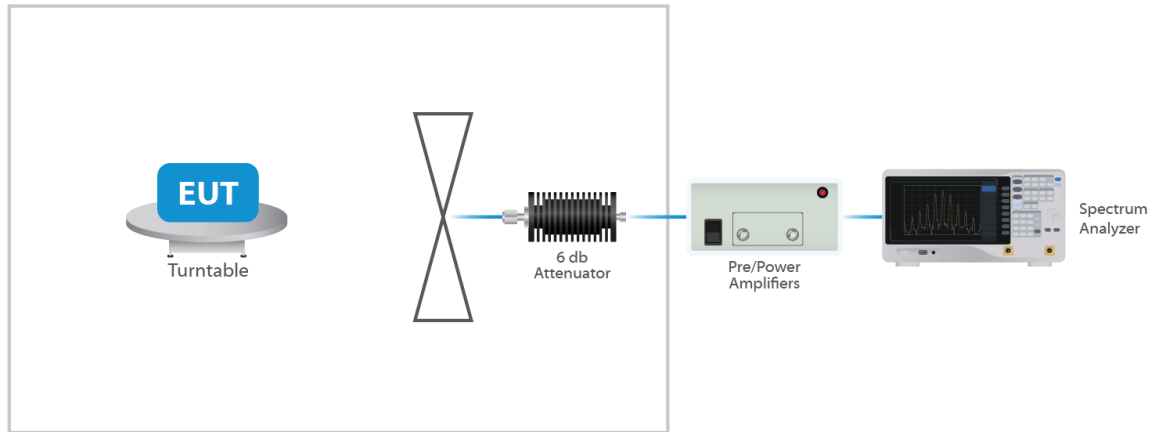


Figure 4: Radiated Emissions Test

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.

4.5 Measurement Uncertainty

Test	Uncertainty (\pm 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 integral antennas. The maximum gain of the antenna per chain is 3 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT ≤ 4;

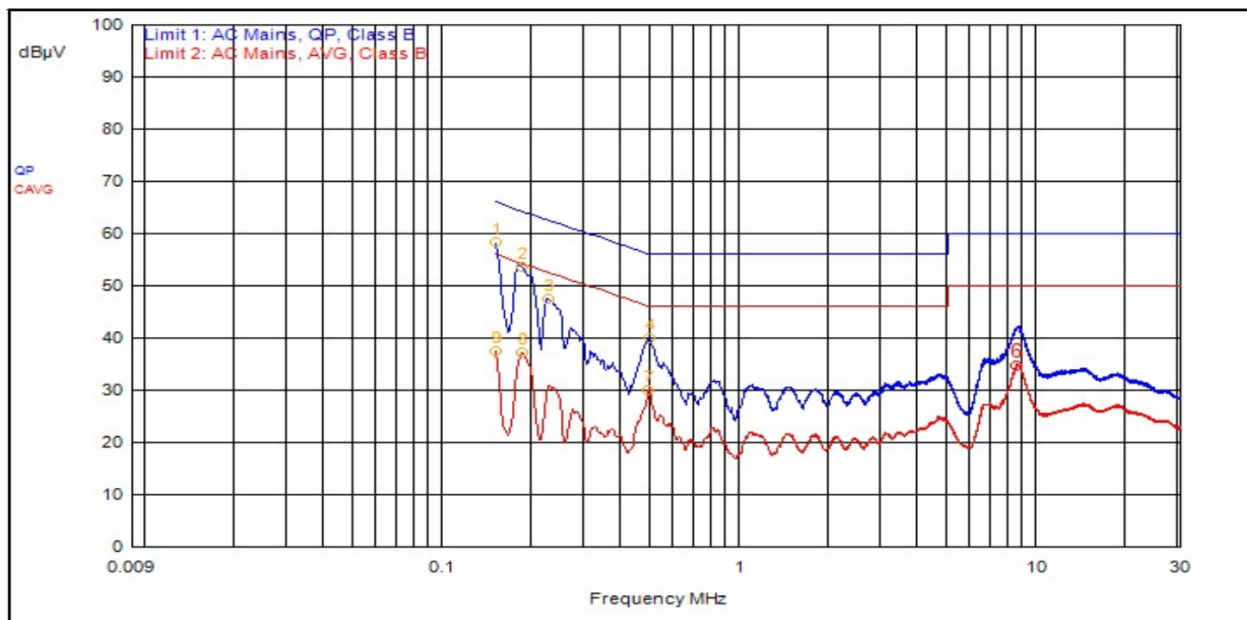
For PSD measurements when Nss=1: Array Gain = 10 log(Nant/Nss) dB = 3.01dB

Results

The EUT complied with the specification

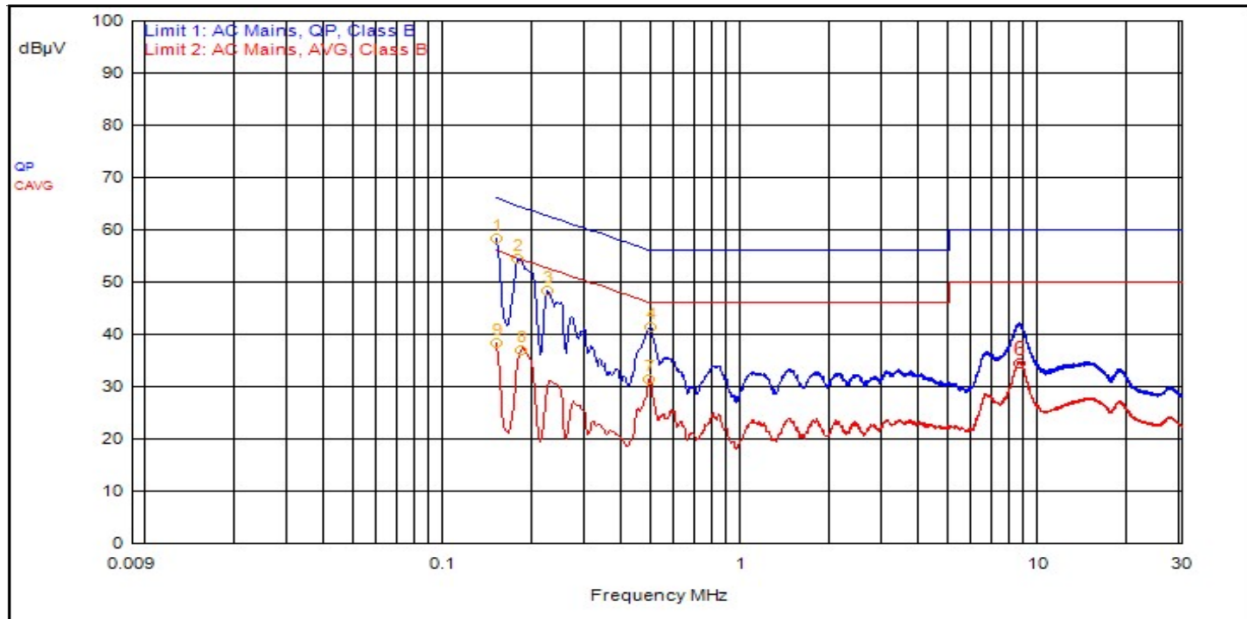
5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.
1	150,000kHz	12.4	0.0		QPeak	45.8	58.2	66.0	-7.8		
2	183,000kHz	12.4	0.0		QPeak	41.4	53.7	64.3	-10.6		
3	225,000kHz	12.4	0.0		QPeak	35.2	47.6	62.6	-15.0		
4	492,000kHz	12.4	0.0		QPeak	27.6	40.0	56.1	-16.1		
6	8.439MHz	12.3	0.2		C_AVG	22.2	34.8			50.0	-15.2
7	486,000kHz	12.4	0.0		C_AVG	17.5	30.0			46.2	-16.3
8	183,000kHz	12.4	0.0		C_AVG	24.9	37.3			54.3	-17.1
9	150,000kHz	12.4	0.0		C_AVG	25.2	37.6			56.0	-18.4

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.
1	150,000kHz	12.4	0.0		QPeak	45.9	58.3	66.0	-7.7		
2	177,000kHz	12.4	0.0		QPeak	42.0	54.4	64.6	-10.2		
3	222,000kHz	12.4	0.0		QPeak	35.9	48.3	62.7	-14.4		
4	492,000kHz	12.4	0.0		QPeak	29.0	41.4	56.1	-14.7		
6	8.583MHz	12.3	0.2		C_AVG	21.8	34.4			50.0	-15.6
7	486,000kHz	12.4	0.0		C_AVG	18.9	31.4			46.2	-14.9
8	180,000kHz	12.4	0.0		C_AVG	24.6	37.0			54.5	-17.5
9	150,000kHz	12.4	0.0		C_AVG	25.9	38.2			56.0	-17.8

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 66291 D01. Please see associated annex for details on instrument settings.

Nominal BW (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
a20	5180	17.30	26.80
a20	5210	32.50	49.30

a20	5240	33.30	54.00
ac20	5180	33.30	51.50
ac20	5210	24.80	40.60
ac20	5240	33.90	56.80
ac40	5190	36.25	39.75
ac40	5230	37.70	85.65
ac80	5210	75.50	80.50
ax20	5180	19.10	29.70
ax20	5210	28.90	47.60
ax20	5240	33.90	57.90
ax40	5190	37.50	39.60
ax40	5230	37.75	62.25
ax80	5210	77.00	81.50
n20	5180	17.90	24.90
n20	5210	24.90	39.50
n20	5240	33.50	55.90
n40	5190	35.75	39.60
n40	5230	39.00	74.10

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 §15.403(a)(1) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 25.52 dBm or 356.45 mW. The limit is 30 dBm, or 1 Watt when using an antenna with 6 dBi (indoor/outdoor access point) or less gain. The antenna has a gain of 2.6 dBi.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured EIRP	Measured PSD
OFDM 20	5180	Mcs0	21	25.22	27.82	11.34
OFDM 20	5210	Mcs0	24	27.76	30.36	13.46
OFDM 20	5240	Mcs0	25.5	27.82	30.42	13.53
HT 20	5180	Mcs0	21	24.73	27.33	10.39
HT 20	5210	Mcs0	23	26.32	28.92	11.87
HT 20	5240	Mcs0	25	27.72	30.32	13.13
HT 40	5190	Mcs0	18	21.92	24.52	5.09
HT 40	5230	Mcs0	21.5	25.90	28.50	9.09
VHT 20	5180	Mcs0	24.5	28.02	30.62	13.88
VHT 20	5210	Mcs0	23	26.25	28.85	12.16
VHT 20	5240	Mcs0	25	27.76	30.36	13.50
VHT 40	5190	Mcs0	18	21.90	24.50	5.88
VHT 40	5230	Mcs0	22.5	27.19	29.79	11.03
VHT 80	5210	Mcs0	19.5	22.70	25.30	3.15
HE 20	5180	Mcs0	20.5	24.30	26.90	9.75
HE 20	5210	Mcs0	23.5	26.99	29.59	12.37
HE 20	5240	Mcs0	24.5	27.76	30.36	12.93
HE 40	5190	Mcs0	17	21.01	23.61	4.38
HE 40	5230	Mcs0	20	24.46	27.06	7.84
HE 80	5210	Mcs0	18	21.37	23.97	1.76

Result

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

5.5 §15.407(b) Spurious Emissions

5.5.1 Conducted Spurious Emissions

The frequency ranges 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 2.6 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must remain below -27 dBm EIRP.

Result

Conducted spurious emissions were below -27 dBm; therefore, the EUT complies with the specification.

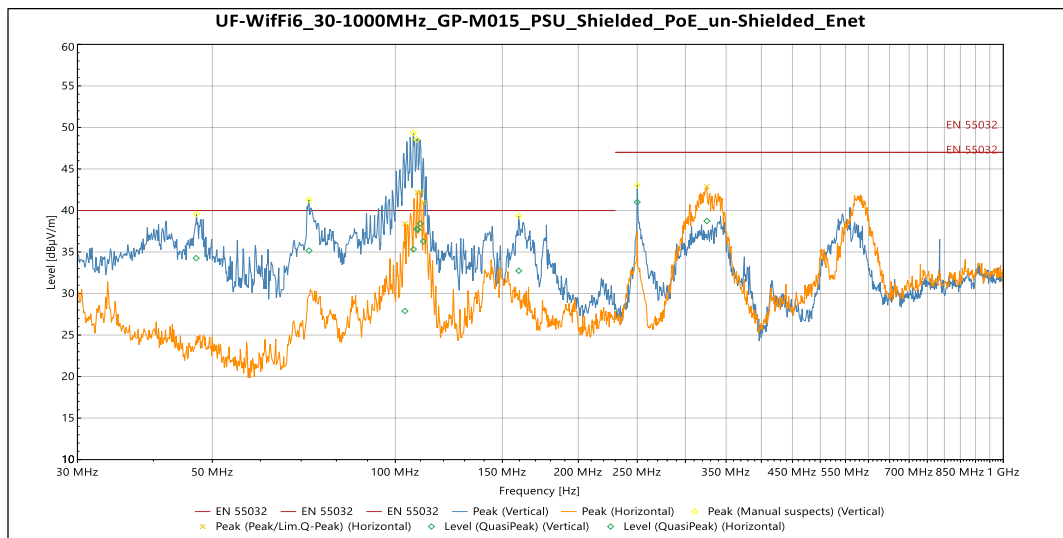
5.5.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

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 TP25.5, as this setting was found to be worst case for spurious emissions. Power was subsequently reduced during in-band and band edge testing. The band edge at the restricted band ending at 5150 MHz was measured using radiated measurement at the antenna port methods. All emissions modes were tested, and the worst-case measurement are shown below. For frequencies above 1 GHz, a measurement of 3 meters was used. For frequencies below 1 GHz, a measurement distance of 10 meters was used.

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

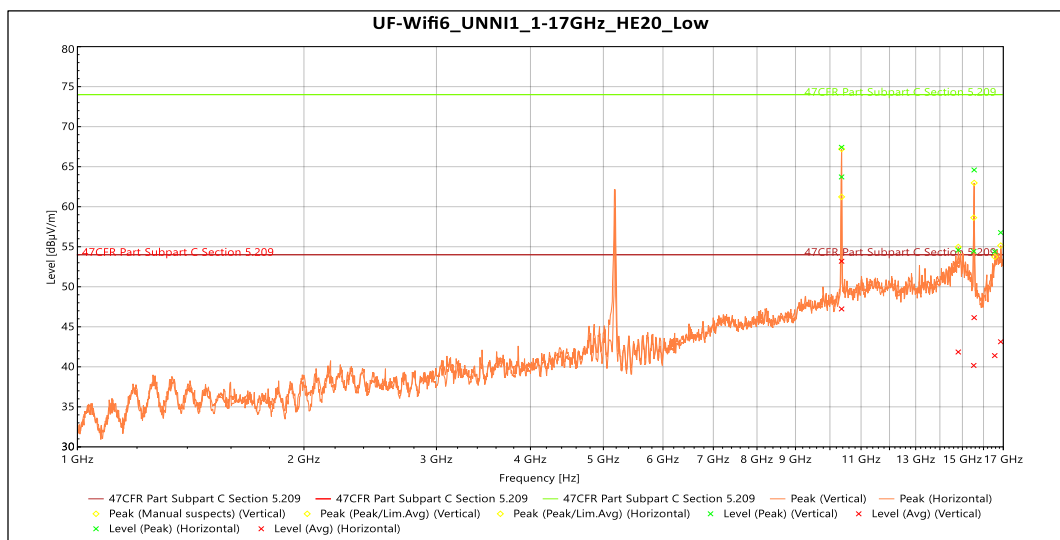
Result

All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. All emissions meet the limits specified in § 15.407(b). See Annex for Conducted Band edge plots.



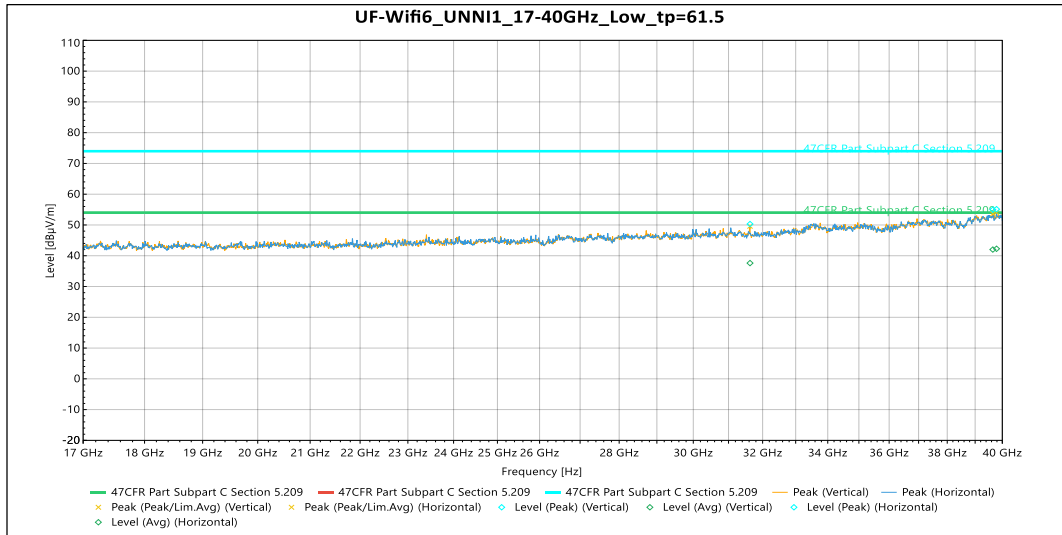
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Meas. Time	RBW	Meas.Time	Correction (dB)
47.031 MHz	34.265	40	-5.735	187	1.136	Vertical	15	120000	0.001	-6.262
72.117 MHz	35.17	40	-4.83	150	2.034	Vertical	15	120000	0.001	-12.408
107.1 MHz	35.333	40	-4.667	306	1.134	Vertical	15	120000	0.001	-8.768
108.53 MHz	37.782	40	-2.218	85	2.038	Vertical	15	120000	0.001	-8.915
159.61 MHz	32.744	40	-7.256	260	1.315	Vertical	15	120000	0.001	-11.98

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin	Azimuth (°)	Height	Pol.	Meas. Time	RBW	Meas.Time	Correction (dB)
249.97 MHz	41.011	47	-5.989	298	1.136	Vertical	15	120000	0.001	-7.395
103.69 MHz	27.888	40	-12.112	106	3.304	Horizontal	15	120000	0.001	-8.315
108.82 MHz	37.669	40	-2.331	178	2.782	Horizontal	15	120000	0.001	-8.98
109.94 MHz	38.424	40	-1.576	180	2.779	Horizontal	15	120000	0.001	-9.2
111.15 MHz	36.256	40	-3.744	183	2.742	Horizontal	15	120000	0.001	-9.313
325.46 MHz	38.726	47	-8.274	205	1	Horizontal	15	120000	0.001	-5.885

Table 4: Radiated Emissions on 30-100MHz


Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW	Meas.Time	Correction (dB)
10.364 GHz	67.425	74	-6.575	200	2.808	Vertical	5	1000000	0	3.413
15.549 GHz	64.585	74	-9.415	62	2.654	Vertical	5	1000000	0	6.033
16.56 GHz	54.403	74	-19.597	356	2.654	Vertical	5	1000000	0	10.389
10.364 GHz	53.194	54	-0.806	200	2.808	Vertical	5	1000000	0	3.413
15.549 GHz	46.145	54	-7.855	62	2.654	Vertical	5	1000000	0	6.033
16.56 GHz	41.4	54	-12.6	356	2.654	Vertical	5	1000000	0	10.389
10.364 GHz	63.72	74	-10.28	265	3.798	Horizontal	5	1000000	0	3.413
14.811 GHz	54.568	74	-19.432	111	1.5	Horizontal	5	1000000	0	9.246
15.529 GHz	54.434	74	-19.566	156	2.654	Horizontal	5	1000000	0	6.179
16.867 GHz	56.77	74	-17.23	41	2.146	Horizontal	5	1000000	0	11.921
10.364 GHz	47.229	54	-6.771	265	3.798	Horizontal	5	1000000	0	3.413
14.811 GHz	41.852	54	-12.148	111	1.5	Horizontal	5	1000000	0	9.246
15.529 GHz	40.17	54	-13.83	156	2.654	Horizontal	5	1000000	0	6.179
16.867 GHz	43.128	54	-10.872	41	2.146	Horizontal	5	1000000	0	11.921

Table 5: Radiated Emissions on 1-17GHz (Low: Worst-Case)



Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Meas. Time (s)	RBW	Meas. Time	Correction (dB)
31.627 GHz	50.295	74	-23.705	273	Vertical	5	1000000	0	0.064
39.648 GHz	54.961	74	-19.039	301	Vertical	5	1000000	0	3.45
31.627 GHz	37.61	54	-16.39	273	Vertical	5	1000000	0	0.064
39.648 GHz	42.014	54	-11.986	301	Vertical	5	1000000	0	3.45
39.785 GHz	55.131	74	-18.869	301	Horizontal	5	1000000	0	3.304
39.785 GHz	42.274	54	-11.726	301	Horizontal	5	1000000	0	3.304

Table 6: Radiated Emissions on 17-40GHz (Low: Worst-Case)

5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 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 17 dBm in any 1 MHz band during any time interval of continuous transmission.

As per KDB 662911, When the EUT is using spatial-multiplexing in HT to HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is 2.6 dBi + Array gain of 3.01 dB which is a total of 5.61 dBi

Results of this testing are summarized.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
OFDM 20	5180	Mcs0	21	11.34
OFDM 20	5210	Mcs0	24	13.46

OFDM 20	5240	Mcs0	25.5	13.53
HT 20	5180	Mcs0	21	10.39
HT 20	5210	Mcs0	23	11.87
HT 20	5240	Mcs0	25	13.13
HT 40	5190	Mcs0	18	5.09
HT 40	5230	Mcs0	21.5	9.09
VHT 20	5180	Mcs0	24.5	13.88
VHT 20	5210	Mcs0	23	12.16
VHT 20	5240	Mcs0	25	13.50
VHT 40	5190	Mcs0	18	5.88
VHT 40	5230	Mcs0	22.5	11.03
VHT 80	5210	Mcs0	19.5	3.15
HE 20	5180	Mcs0	20.5	9.75
HE 20	5210	Mcs0	23.5	12.37
HE 20	5240	Mcs0	24.5	12.93
HE 40	5190	Mcs0	17	4.38
HE 40	5230	Mcs0	20	7.84
HE 80	5210	Mcs0	21.37	1.76

Result

The maximum summed average power spectral density was less than the limit of 17dBm; therefore, the EUT complies with the specification.

-- End of Test Report --