



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-UTR
ISED ID	6545A-UTR
Equipment Under Test	UTR
Test Report Serial Number	TR10559_01
Date of Test(s)	15 - 16 , 21 - 22, 27, 30 October 2025
Report Issue Date	2 December 2025

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E RSS-247, Issue 3 (August 2023)	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 with the specifications provided by the manufacturer.

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

On this 2nd day of December 2025, 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. Unified Compliance laboratory is not responsible for incorrect information provided by the manufacturer.

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: Joseph W. Jackson

Reviewed By: Kimberly DeBole

Revision History		
Revision	Description	Date
01	Original Report Release	12/02/2025

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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	UTR
Serial Number	DA9F92
Dimensions (cm)	6.5 x 9.6 x 1.3

2.2 Description of EUT

The UniFi Travel Router (UTR) is a compact travel router and VPN functionality for secure connections on the go. The UTR has 2x2 2.4 GHz and 2x2 5GHz dual-band wireless transmitters. The UTR has a Bluetooth transmitter for management control. The UTR is an indoor device and is powered from a USB-C power port.

For CDD transmission, direction gain is calculated as follows.

Array Gain = $10 \log(\text{NANT}/\text{NSS})$ 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 $\text{NANT} \leq 4$;

For PSD measurements when $\text{Nss}=1$: Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB + Antenna Gain (dBi). Or 3.01 dB + 5 dBi = 8.01 dBi.

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.

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

Band	WiFi Mode	Modulation Bandwidth	Modulation Type	Frequency (MHz)
UNII-3	a	20 MHz	OFDM	5745, 5775, 5825
	ac	20 MHz	VHT	5745, 5775, 5825
	ac	40 MHz	VHT	5755, 5775, 5795
	ac	80 MHz	VHT	5775

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: UTR (Note 1) SN: DA9F92	Wireless Router	See Section 2.4
BN: UBIQUITI MN: E005-1I050100VU SN: N/A	USB Power Adapter	2 Conductor power cord to AC mains/80cm
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Unshielded Cat 5e cable/3 meters

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
USB-C Power	1	2 conductor power to AC mains/80cm
USB-C Passthrough	1	USB-C cable/3 meters
Ethernet	2	Unshielded Cat 5e cable/3 meters

2.5 Operating Environment

Power Supply	120 Volts AC Main to USB-C
AC Mains Frequency	60 Hz
Temperature	21.1 - 23.5 °C
Humidity	25.3 - 30.7 %
Barometric Pressure	1011 mBar

2.6 Operating Modes

The UTR 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/ac were investigated. All measurements are reported with the worst-case mode (802.11ac maximum conducted output power and maximum power spectral density) 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

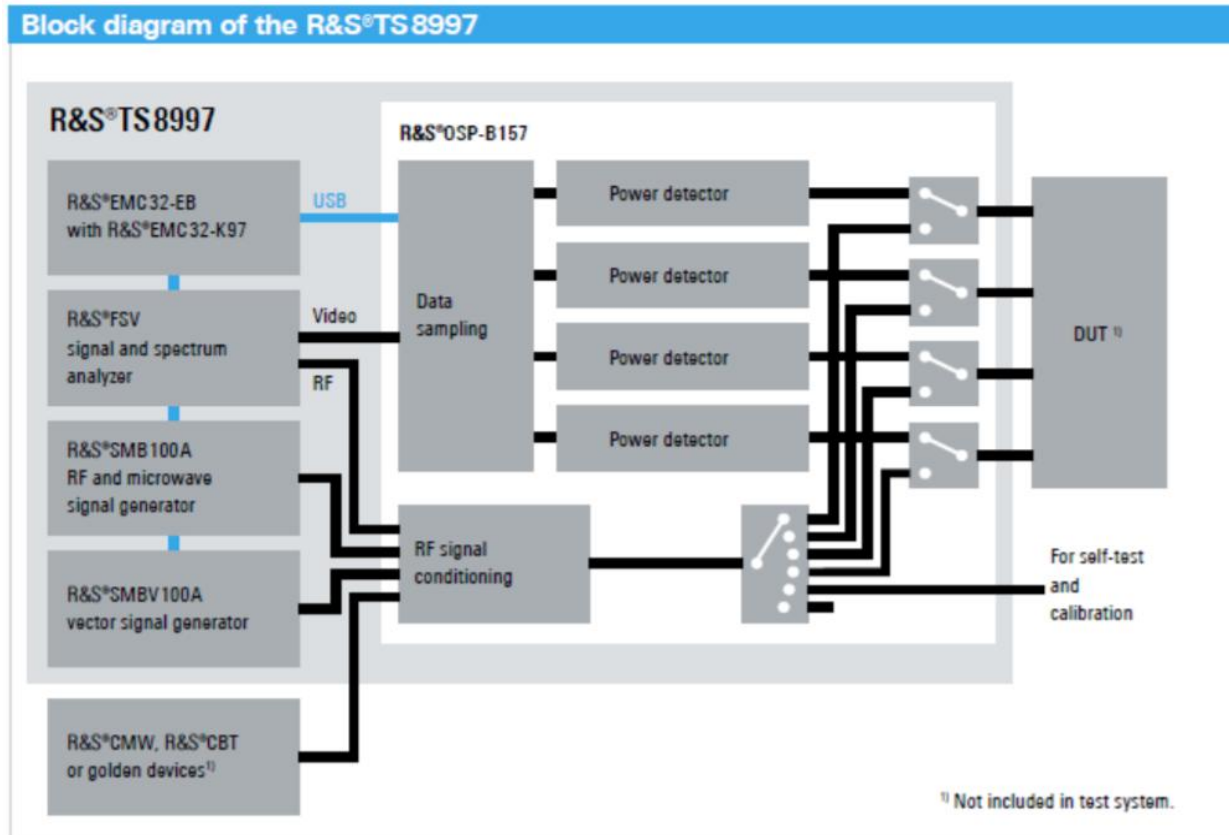


Diagram 1: Test Configuration Block Diagram

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(a)	RSS-247 §6.2.2	Bandwidth Requirement	5725 to 5850	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5725 to 5850	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	N/A Note ¹
15.209	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5725 to 5850	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. Note ¹ : Radiated Spurious was performed per 15.209 with the antenna unterminated.				

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 chambers 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 2026. 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 2026.

Unified Compliance Laboratory has been assigned Registration Number 376708 by the FCC, MRA Designation Number US5037 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	2/27/2025	2/27/2026
LISN	AFJ	LS16C/10	UCL-6749	3/3/2025	3/3/2026
ISN	Teseq	ISN T800	UCL-2971	3/31/2025	3/31/2026
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	AFJ	AFJ FFT3010	UCL-3107	N/A	N/A

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

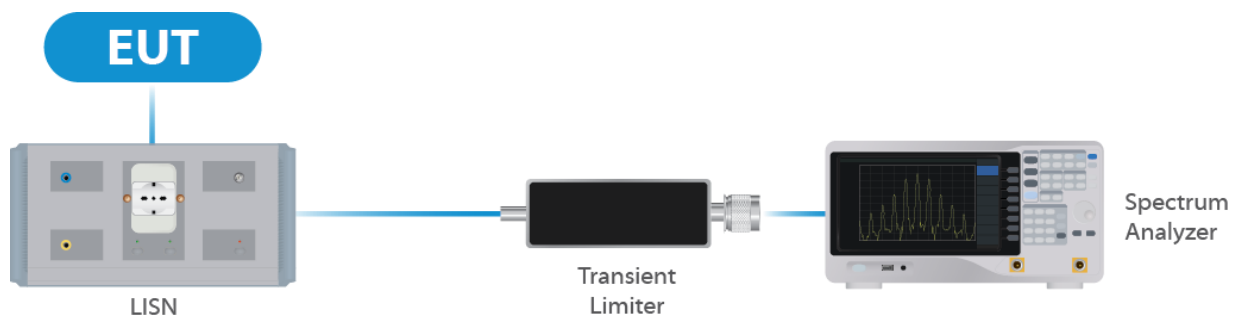


Figure 1: Conducted Emissions Test

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	1/16/2025	1/16/2026
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	4/28/2025	1/16/2026
Switch Extension	R&S	OSP-150W	UCL-2870	4/28/2025	1/16/2026
Test Software	R&S	EMC32	UCL-9442	--	--

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

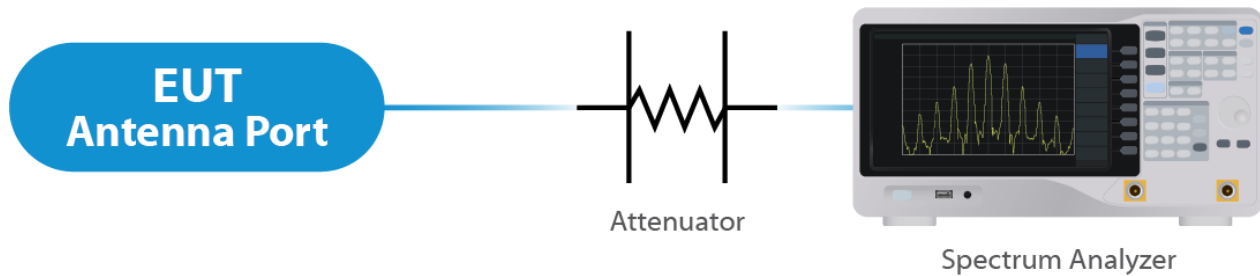


Figure 2: Direct Connect at the Antenna Port Test



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	12/27/2024	12/27/2025
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	1/19/2024	1/19/2026
Broadband Antenna	ETS-Lindgren	3142E	UCL-9782	2/6/2025	2/6/2026
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	4/2/2025	4/2/2027
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	2/11/2025	2/4/2027
10 - 40 GHz Horn Antenna	ETS-Lindgren	3116C	UCL-7209	6/6/2024	6/6/2026
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	7/22/2025	7/22/2026
Test Software	Nexio	BatEMC	UCL-5253 & UCL-5249	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

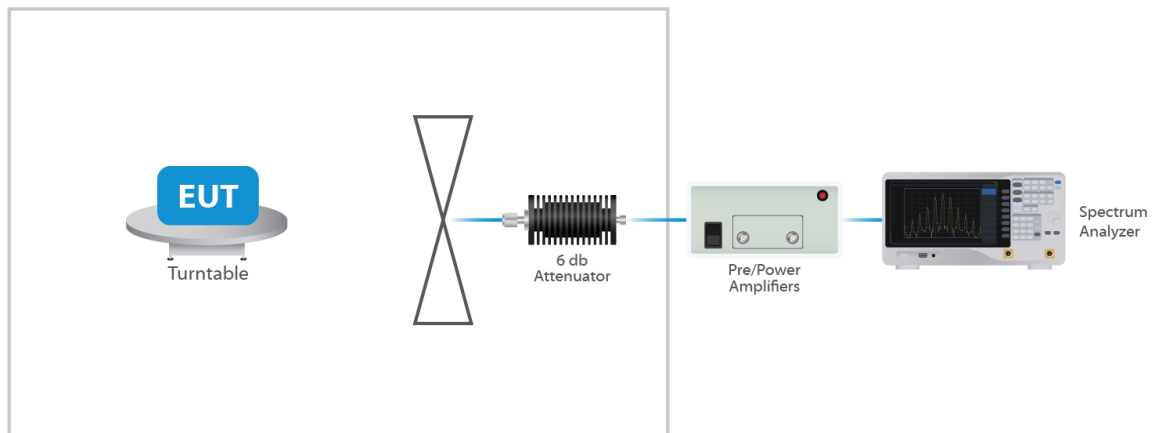


Figure 4: Radiated Emissions Test

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 an integrated internal antenna. Per the manufacturer, the Maximum gain of the antenna per chain is 5 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

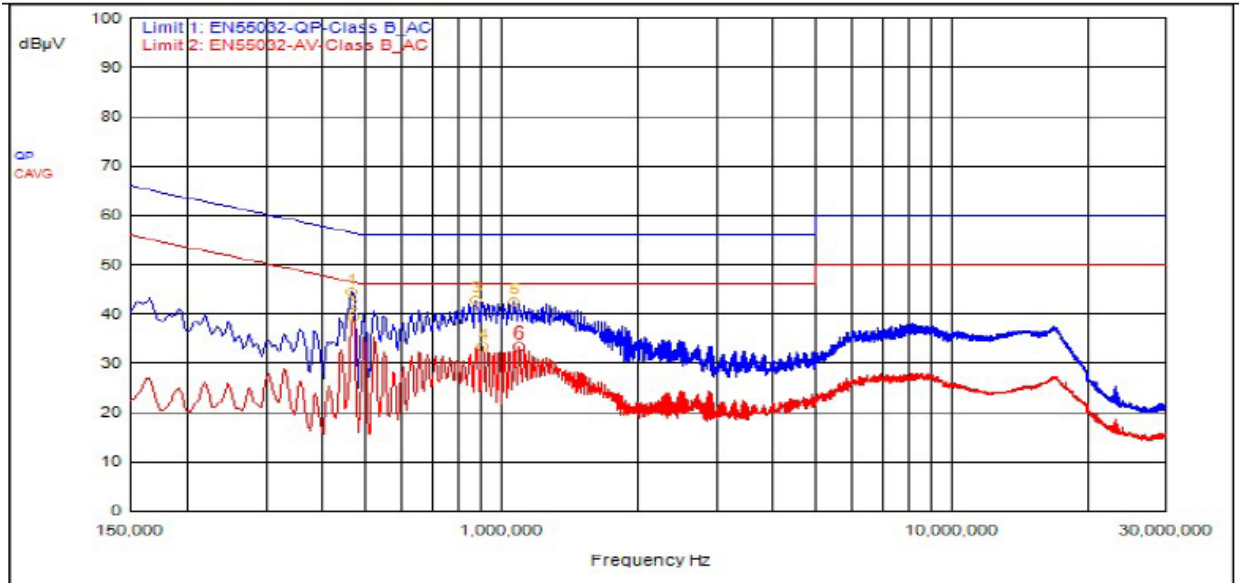
See Section 2.2 for directional gain calculation.

Results

The EUT complied with the specification

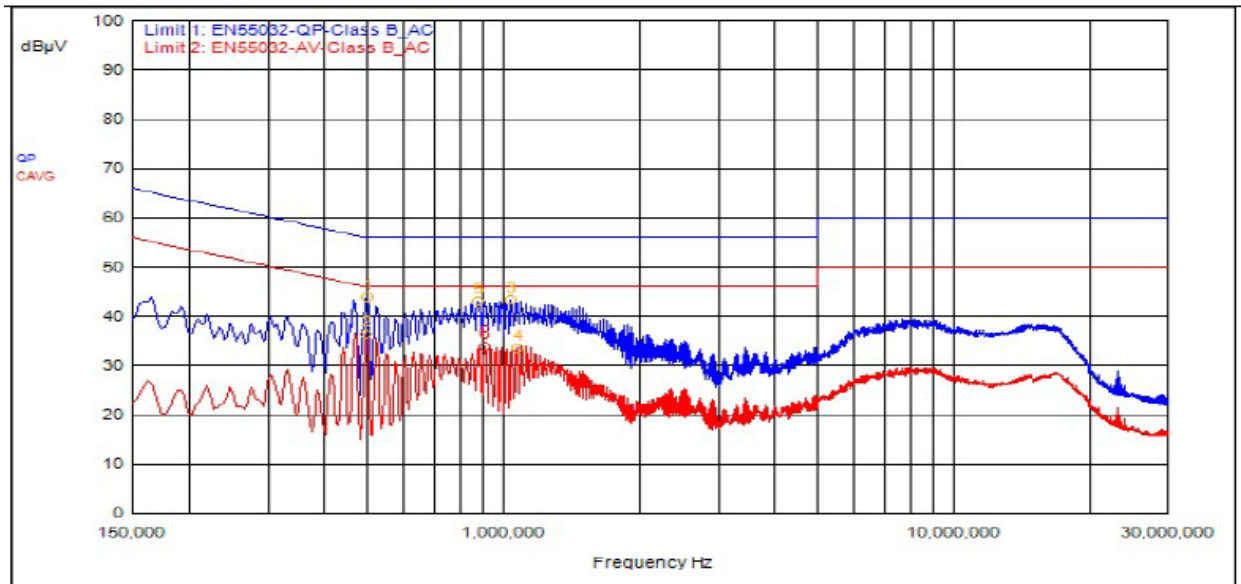
5.2 §15.207 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBµV	dBµV	dBµV	dB	dBµV	dB	P/F
1	465,000kHz	9.49			QPeak	34.87	44.36	56.60	-12.25			
3	876,000kHz	9.54			QPeak	33.26	42.80	56.00	-13.20			
5	1.068	9.58			QPeak	32.98	42.56	56.00	-13.44			
2	468,000kHz	9.49			C_AVG	29.83	39.32			46.55	-7.23	
4	909,000kHz	9.55			C_AVG	23.71	33.26			46.00	-12.74	
6	1.098	9.58			C_AVG	23.62	33.20			46.00	-12.80	

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBμV	dBμV	dBμV	dB	dBμV	dB	P/F
1	498,000kHz	9.64			QPeak	34.36	44.00	56.03	-12.03			
3	1.041	9.56			QPeak	33.75	43.31	56.00	-12.69			
5	876,000kHz	9.52			QPeak	33.67	43.19	56.00	-12.81			
2	495,000kHz	9.64			C_AVG	26.79	36.43			46.08	-9.66	
4	1.071	9.56			C_AVG	24.17	33.73			46.00	-12.27	
6	909,000kHz	9.53			C_AVG	24.44	33.97			46.00	-12.03	

Result

The EUT complied with the specification limit.

5.3 §15.407(a) 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)	Frequency (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)
OFDM 20	5745	18.9	36.6
OFDM 20	5775	20.2	34.6
OFDM 20	5825	24.1	37.8
VHT 20	5745	22.5	39.8
VHT 20	5775	21.6	40.0
VHT 20	5825	24.9	39.8
VHT 40	5755	41.0	68.5
VHT 40	5775	42.3	76.3
VHT 40	5795	45.8	75.8
VHT 80	5775	77.0	151.5

Result

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

See Section 2.2 for directional gain calculation.

The maximum average RF conducted output power measured for this device was 22.42 dBm or 174.58 mW. The limit is 30 dBm, or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 5 dBi.

Nss>1

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5745	Mcs0_Nss2	43	22.22	5	27.22	36	-8.78
OFDM 20	5775	Mcs0_Nss2	43	22.33	5	27.33	36	-8.67
OFDM 20	5825	Mcs0_Nss2	43	22.42	5	27.42	36	-8.58
VHT 20	5745	Mcs0_Nss2	43	21.46	5	26.46	36	-9.54
VHT 20	5775	Mcs0_Nss2	43	21.42	5	26.42	36	-9.58
VHT 20	5825	Mcs0_Nss2	43	21.48	5	26.48	36	-9.52
VHT 40	5755	Mcs0_Nss2	43	21.68	5	26.68	36	-9.32
VHT 40	5775	Mcs0_Nss2	43	21.78	5	26.78	36	-9.22
VHT 40	5795	Mcs0_Nss2	43	21.80	5	26.80	36	-9.20
VHT 80	5775	Mcs0_Nss2	41	20.14	5	25.14	36	-10.86

Nss=1

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5745	Mcs0_Nss1	43	22.22	5	27.22	36	-8.78
OFDM 20	5775	Mcs0_Nss1	43	22.33	5	27.33	36	-8.67
OFDM 20	5825	Mcs0_Nss1	43	22.42	5	27.42	36	-8.58
VHT 20	5745	Mcs0_Nss1	43	21.46	5	26.46	36	-9.54
VHT 20	5775	Mcs0_Nss1	43	21.42	5	26.42	36	-9.58
VHT 20	5825	Mcs0_Nss1	43	21.48	5	26.48	36	-9.52
VHT 40	5755	Mcs0_Nss1	43	21.68	5	26.68	36	-9.32
VHT 40	5775	Mcs0_Nss1	43	21.78	5	26.78	36	-9.22
VHT 40	5795	Mcs0_Nss1	43	21.80	5	26.80	36	-9.20
VHT 80	5775	Mcs0_Nss1	41	20.14	5	25.14	36	-10.86

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).

* Gated EIRP shown in the Annex is the conducted measurement.

5.5 §15.407(b)(7) Spurious Emissions

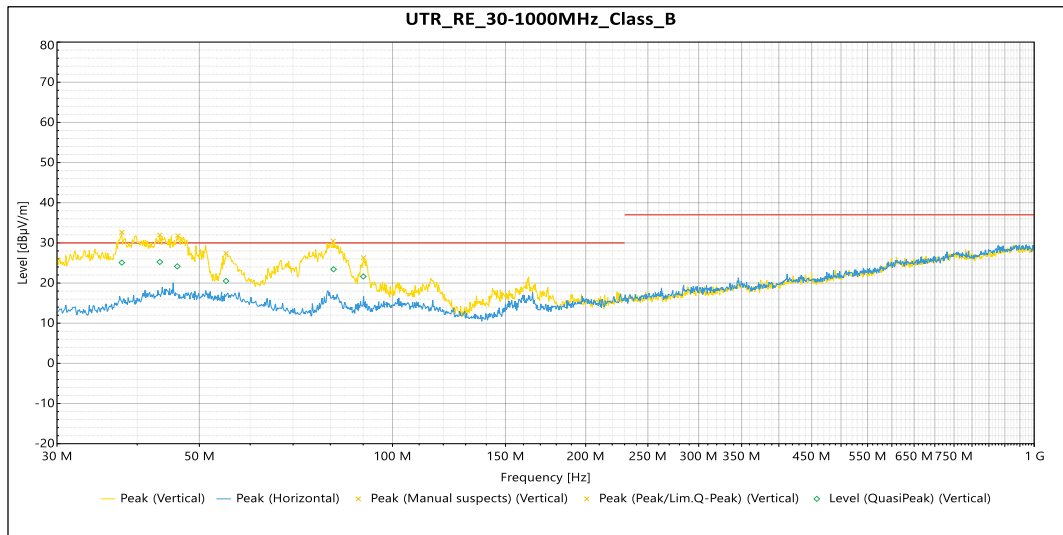
5.5.1 Radiated Spurious Emissions in the Restricted Bands of § 15.205

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 TP45.

Correction Factor = Antenna Factor (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), 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.

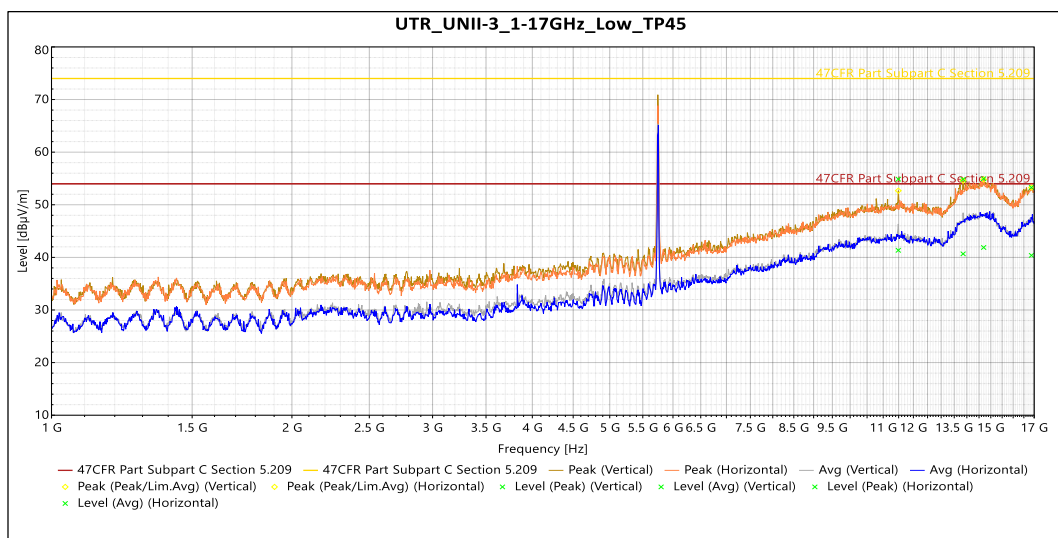


QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
37.86 MHz	25.08	30.0	-4.92	76	4	Vertical	-14.08
43.39 MHz	25.24	30.0	-4.76	177	1.76	Vertical	-12.10
46.20 MHz	24.16	30.0	-5.84	357	2.02	Vertical	-11.85
55.03 MHz	20.51	30.0	-9.49	2783	3.88	Vertical	-12.01
80.94 MHz	23.44	30.0	-6.56	197	4	Vertical	-18.40
90.06 MHz	21.63	30.0	-8.37	2	2.32	Vertical	-15.55

Note: No significant emissions were observed in the Horizontal orientation of the antenna

Table 4: Radiated Emissions 30 – 1000 MHz



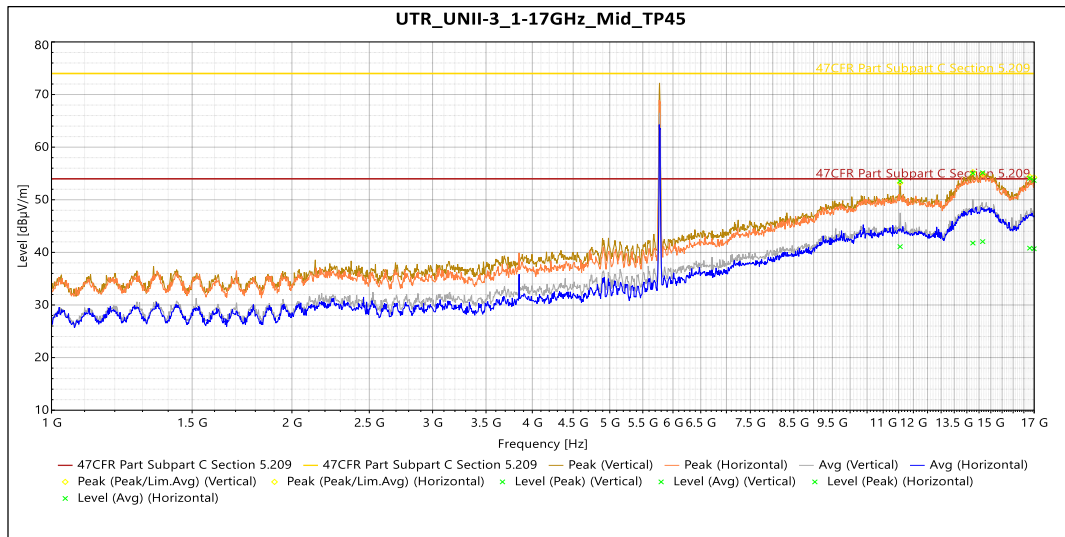
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.49 GHz	54.87	74.0	-19.13	306	2.65	Vertical	7.85
13.85 GHz	54.83	74.0	-19.17	69	1.842	Vertical	10.36
14.70 GHz	54.95	74.0	-19.05	260	1.5	Horizontal	11.93
16.87 GHz	53.30	74.0	-20.70	352	3.153	Horizontal	11.79

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.49 GHz	41.34	54.0	-12.66	306	2.65	Vertical	7.85
13.85 GHz	40.67	54.0	-13.33	69	1.842	Vertical	10.36
14.70 GHz	41.88	54.0	-12.12	260	1.5	Horizontal	11.93
16.87 GHz	40.38	54.0	-13.62	352	3.153	Horizontal	11.79

Table 5: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



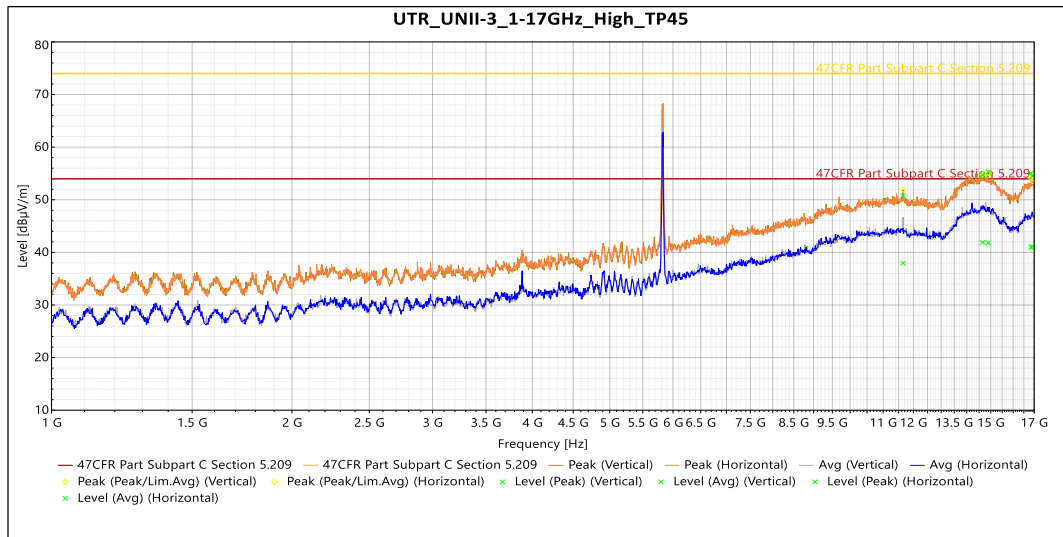
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.55 GHz	53.55	74.0	-20.45	102	2.346	Vertical	7.96
14.25 GHz	55.06	74.0	-18.94	80	1.638	Vertical	11.23
16.79 GHz	54.07	74.0	-19.93	166	2.142	Vertical	11.16
14.65 GHz	55.12	74.0	-18.88	43	1.842	Horizontal	11.81
16.99 GHz	53.67	74.0	-20.33	255	2.646	Horizontal	11.75

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.55 GHz	41.09	54.0	-12.91	102	2.346	Vertical	7.96
14.25 GHz	41.77	54.0	-12.23	80	1.638	Vertical	11.23
16.79 GHz	40.81	54.0	-13.19	166	2.142	Vertical	11.16
14.65 GHz	42.05	54.0	-11.95	43	1.842	Horizontal	11.81
16.99 GHz	40.68	54.0	-13.32	255	2.646	Horizontal	11.75

Table 6: Radiated Emissions 1 – 17 GHz at the Middle Frequency



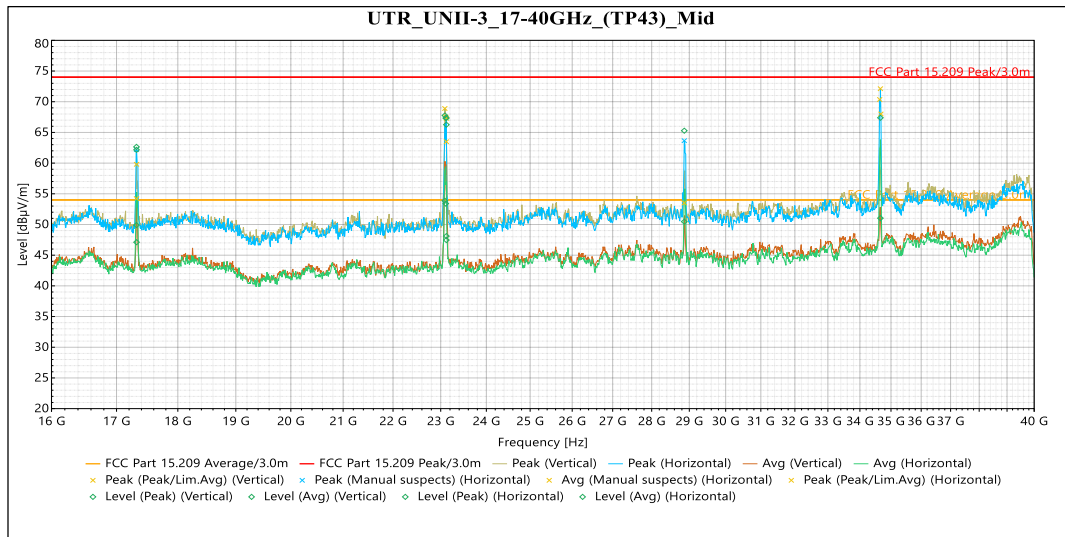
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.65 GHz	50.79	74.0	-23.21	218	1.5	Vertical	8.07
14.90 GHz	55.32	74.0	-18.68	114	1.638	Vertical	11.70
16.84 GHz	55.00	74.0	-19.00	174	2.65	Vertical	11.81
14.65 GHz	54.79	74.0	-19.21	258	1.847	Horizontal	11.80
16.91 GHz	54.52	74.0	-19.48	239	2.142	Horizontal	12.25

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.65 GHz	37.94	54.0	-16.06	218	1.5	Vertical	8.07
14.90 GHz	41.78	54.0	-12.22	114	1.638	Vertical	11.70
16.84 GHz	40.95	54.0	-13.05	174	2.65	Vertical	11.81
14.65 GHz	41.89	54.0	-12.11	258	1.847	Horizontal	11.80
16.91 GHz	41.12	54.0	-12.88	239	2.142	Horizontal	12.25

Table 7: Radiated Emissions 1 – 17 GHz at the Highest Frequency



Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.32 GHz	62.16	74.0	-11.84	224	Vertical	1.53
23.09 GHz	67.76	74.0	-6.24	33	Vertical	1.72
23.11 GHz	67.33	74.0	-6.67	30	Vertical	1.75
23.12 GHz	67.35	74.0	-6.65	30	Vertical	1.78
17.32 GHz	62.64	74.0	-11.36	85	Horizontal	1.53
23.12 GHz	66.26	74.0	-7.74	265	Horizontal	1.78
28.86 GHz	65.28	74.0	-8.72	253	Horizontal	2.30
34.66 GHz	67.38	74.0	-6.62	227	Horizontal	5.10

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.32 GHz	47.11	54.0	-6.89	224	Vertical	1.53
23.09 GHz	53.86	54.0	-0.14	33	Vertical	1.72
23.11 GHz	53.40	54.0	-0.60	30	Vertical	1.75
23.12 GHz	48.11	54.0	-5.89	30	Vertical	1.78
17.32 GHz	49.90	54.0	-4.10	85	Horizontal	1.53
23.12 GHz	47.46	54.0	-6.54	265	Horizontal	1.78
28.86 GHz	50.46	54.0	-3.54	253	Horizontal	2.30
34.66 GHz	51.03	54.0	-2.97	227	Horizontal	5.10

Table 8: Radiated Emissions 17 – 26 GHz at the Middle Frequency (worse 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 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 30 dBm in any 500 kHz band during any time interval of continuous transmission.

See Section 2.2 for directional gain calculation.

Results of this testing are summarized.

Nss>1

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5745	Mcs0_Nss2	43	6.89	5	30	-23.11
OFDM 20	5775	Mcs0_Nss2	43	7.01	5	30	-22.99
OFDM 20	5825	Mcs0_Nss2	43	6.79	5	30	-23.21
VHT 20	5745	Mcs0_Nss2	43	5.80	5	30	-24.20
VHT 20	5775	Mcs0_Nss2	43	5.60	5	30	-24.40
VHT 20	5825	Mcs0_Nss2	43	5.32	5	30	-24.68
VHT 40	5755	Mcs0_Nss2	43	4.15	5	30	-25.85
VHT 40	5775	Mcs0_Nss2	43	3.81	5	30	-26.19
VHT 40	5795	Mcs0_Nss2	43	4.15	5	30	-25.85
VHT 80	5775	Mcs0_Nss2	41	-1.90	5	30	-31.90

Nss=1

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5745	Mcs0_Nss1	43	6.89	5	27.99	-21.10
OFDM 20	5775	Mcs0_Nss1	43	7.01	5	27.99	-20.98
OFDM 20	5825	Mcs0_Nss1	43	6.79	5	27.99	-21.20
VHT 20	5745	Mcs0_Nss1	43	5.80	5	27.99	-22.19
VHT 20	5775	Mcs0_Nss1	43	5.60	5	27.99	-22.39
VHT 20	5825	Mcs0_Nss1	43	5.32	5	27.99	-22.67
VHT 40	5755	Mcs0_Nss1	43	4.15	5	27.99	-23.84
VHT 40	5775	Mcs0_Nss1	43	3.81	5	27.99	-24.18
VHT 40	5795	Mcs0_Nss1	43	4.15	5	27.99	-23.84
VHT 80	5775	Mcs0_Nss1	41	-1.90	5	27.99	-29.89

Result

The maximum summed average power spectral density was less than the limit of 30 dBm; therefore, the EUT complies with the specification.

-- End of Test Report --