



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-U7MW
ISED ID	6545A-U7MW
Equipment Under Test	U7-Mesh-Wall
Test Report Serial Number	TR11378_03
Date of Test(s)	6, 18 - 19 August; 2 - 3 September 2026
Report Issue Date	8 October 2026

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E RSS-247, Issue 4 (July 2025)	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	U7-Mesh-Wall
FCC ID	SWX-U7MW
ISED ID	6545A-U7MW

On this 8th day of October 2026, 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: Clay Allred



Reviewed By: Kimberly DeBole

Revision History		
Revision	Description	Date
01	Original Report Release	28 September 2026
02	Section 5.4, 5.6 Updated	7 October 2026
03	Updated conducted emissions	8 October 2026

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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 Officer

1.2 Manufacturer

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

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	U7-Mesh-Wall
Serial Number	CE06
Dimensions (cm)	17.0 x 11.2 x 3.2

2.2 Description of EUT

The U7-Mesh-Wall is a wall mounted dual-band WiFi7 access point with 2.4 GHz and 5 GHz 2x2 transmitters. The U7-Mesh-Wall can be adopted to your network quickly and can be centrally managed with either the UniFi Network web application or mobile app. The U7-Mesh-Wall supports 4.9 Gbps aggregate throughput. The U7-Mesh-Wall plugs directly into a standard AC wall outlet and is an indoor device. The U7-Mesh-Wall has Thread and Bluetooth transmitters for system management. For 5GHz 802.11 WiFi operations the U7-Mesh-Wall is considered a client device without radar detection and without TPC capabilities.

This device does not support channel puncturing.

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 + 6 dBi = 9.01 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.

Band	WiFi Mode	Modulation Bandwidth	Modulation Type	Frequency (MHz)
UNII-1	a	20 MHz	OFDM	5180, 5200, 5210, 5240
	be	20 MHz	EHT	5180, 5200, 5210, 5240
	be	40 MHz	EHT	5190, 5230
	be	80 MHz	EHT	5210

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: U7-Mesh-Wall SN: CE06	Wireless Access Point	See Section 2.4
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer (For Testing Only)	LAN Port / Un-shielded Cat 5e cable (Note 2)
BN: UBIQUITI MN: UDR SN: 4FF2	Network Router	LAN Port / Un-shielded Cat 5e cable (Note 2)

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	Not Applicable

2.5 Operating Environment

Power Supply	120 Volts AC Mains
AC Mains Frequency	60 Hz
Temperature	22.4 - 23.8 °C
Humidity	29.7 - 32.1 %
Barometric Pressure	1021 mBar

2.6 Operating Modes

The U7-Mesh-Wall was tested using test software to enable constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 a/b/e were investigated. All measurements are reported with the worst-case mode (802.11b 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

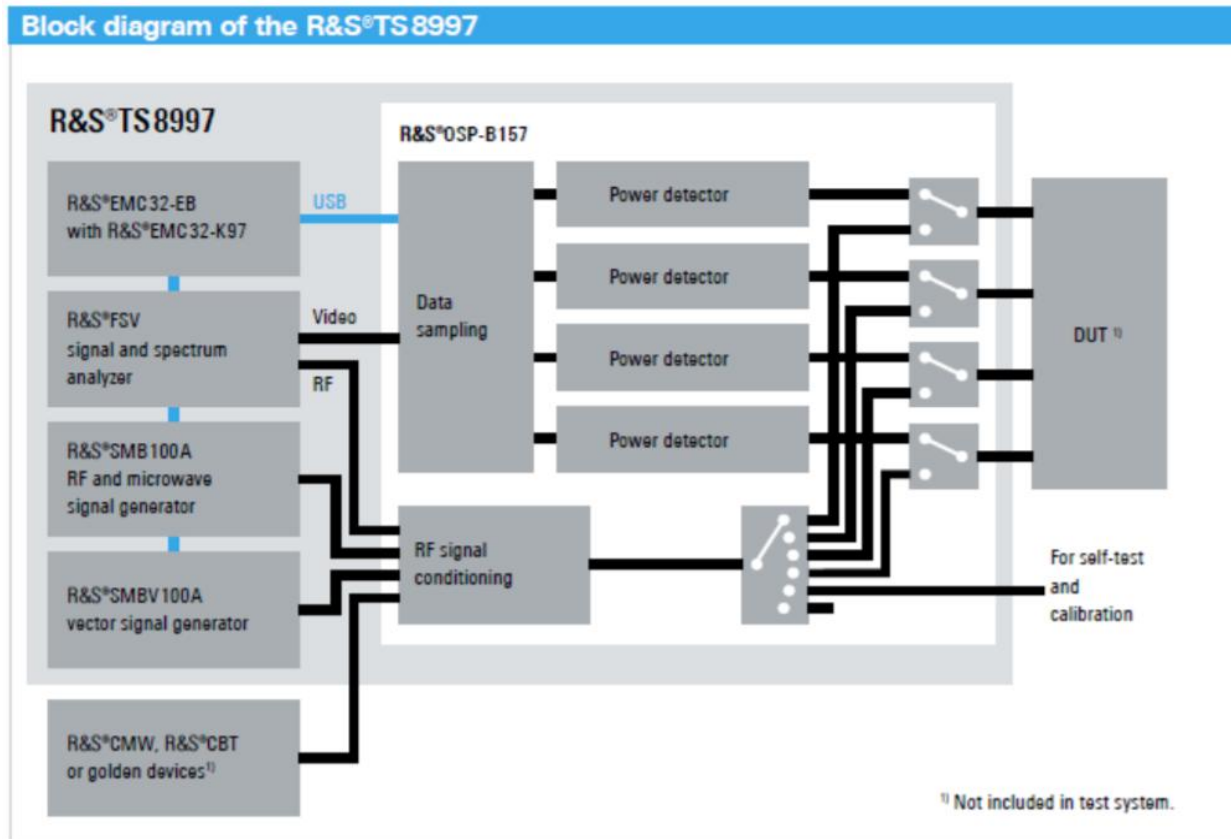


Diagram 1: Test Configuration Block Diagram

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	5180 to 5210	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5180 to 5210	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	5180 to 5210	Compliant
The testing was performed according to the procedures in ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024, KDB 558074 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 2027. 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 2027.

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-2500	11/18/2025	11/18/2026
LISN	AFJ	LS16C/10	UCL-6749	3/5/2026	3/5/2027
ISN	Teseq	ISN T800	UCL-2971	3/4/2026	3/4/2027
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

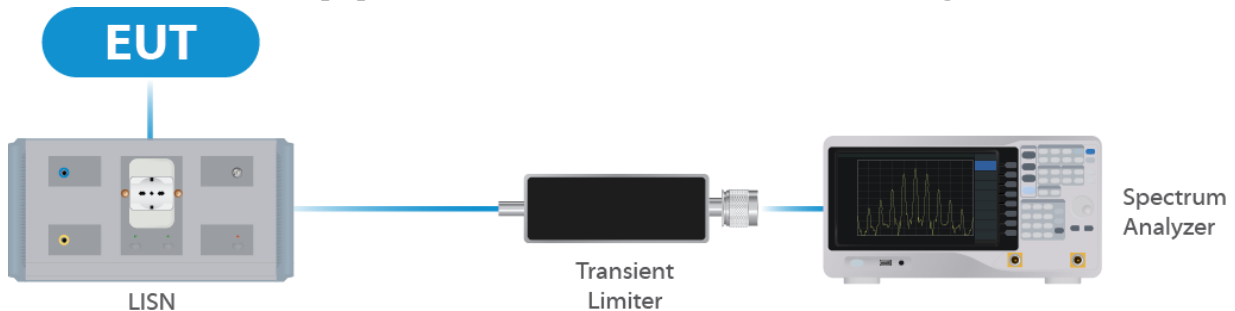


Figure 1: Conducted Emissions Test

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	3/18/2026	3/18/2027
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	4/7/2026	4/7/2027
Switch Extension	R&S	OSP-150W	UCL-2870	4/6/2026	4/6/2027
Test Software	R&S	EMC32	UCL-9442	--	--

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

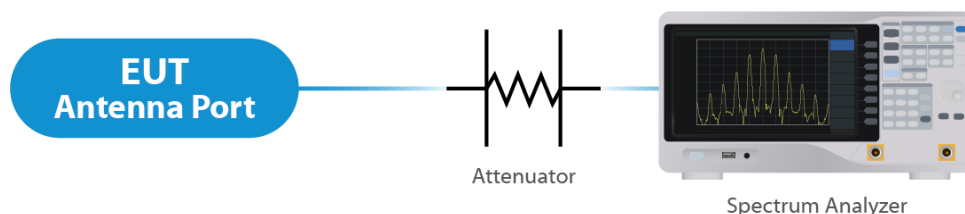


Figure 2: Direct Connect at the Antenna Port Test



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	12/18/2025	12/18/2026
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	8/25/2026	8/25/2027
Tri Log Antenna	Scwarzbeck	VULB 9163	UCL-3062	12/16/2025	12/16/2027
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
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	4/7/2025	4/7/2027
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	8/25/2026	8/25/2027
Test Software	Nexio	BatEMC	UCL-5253 & UCL- 5249	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

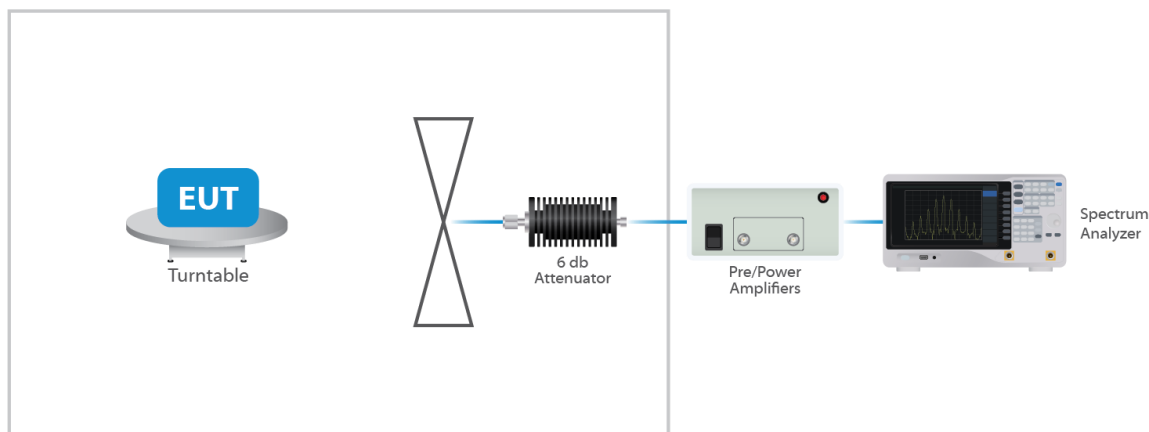


Figure 4: Radiated Emissions Test

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 internal integrated 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.

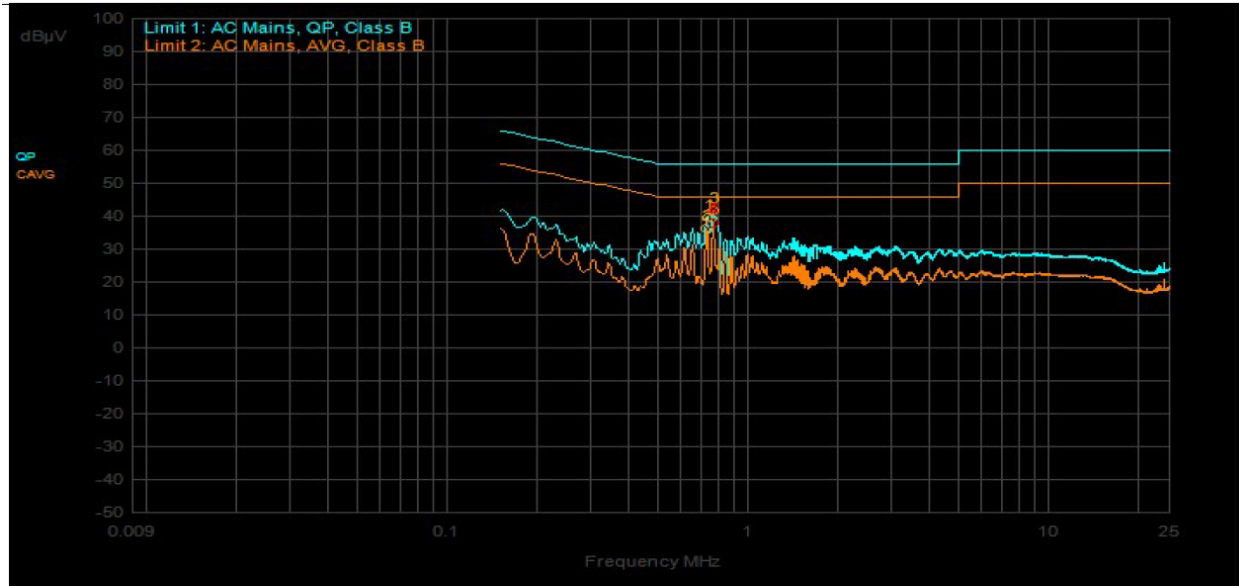
See Section 2.2 for directional gain calculation.

Results

The EUT complied with the specification

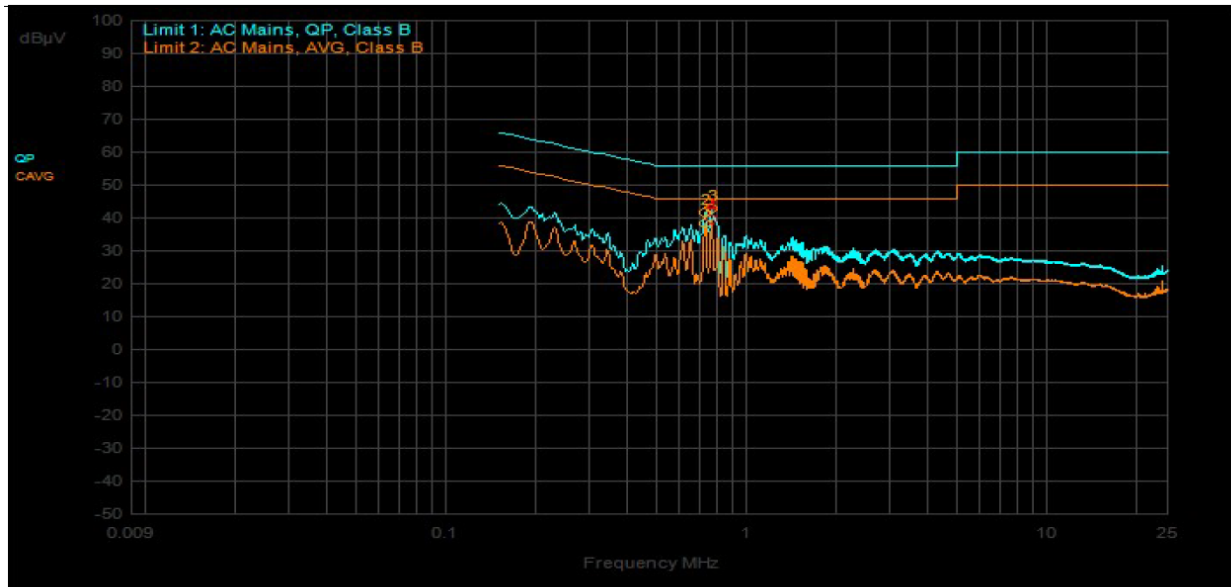
5.2 §15.207 Conducted Emissions at Mains Ports Data

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
3	765,000kHz	12.35	0.00		QPeak	29.48	41.83	56.00	-14.17			
1	729,000kHz	12.34	0.00		QPeak	27.27	39.61	56.00	-16.39			
2	726,000kHz	12.34	0.00		C_AVG	23.72	36.06			46.00	-9.94	
4	765,000kHz	12.35	0.00		C_AVG	25.66	38.01			46.00	-7.99	

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
3	765,000kHz	12.36	0.00		QPeak	30.36	42.72	56.00	-13.28			
2	726,000kHz	12.34	0.00		QPeak	29.44	41.78	56.00	-14.22			
1	726,000kHz	12.34	0.00		C_AVG	25.99	38.33			46.00	-7.67	
4	762,000kHz	12.35	0.00		C_AVG	27.27	39.62			46.00	-6.38	

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)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5180	16.8	21.9
OFDM 20	5210	17.1	22.4
OFDM 20	5240	30.1	43.1
EHT 20	5180	19.0	22.5
EHT 20	5210	19.0	22.2
EHT 20	5240	31.3	53.0
EHT 40	5190	38.3	44.0
EHT 40	5230	38.5	42.5
EHT 80	5210	77.5	87.0

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) 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 27.28 dBm or 534.56 mW. The limit is 30 dBm, or 1 Watt when using an antenna with 23 dBi (Fixed point to point) or 6 dBi (indoor/outdoor access point) or less gain. The antenna has a gain of 6 dBi.

See Section 2.2 for directional gain calculation.

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	5180	Mcs0_Nss2	20	21.35	6	27.35	36	-8.65
OFDM 20	5210	Mcs0_Nss2	23	24.55	6	30.55	36	-5.45
OFDM 20	5240	Mcs0_Nss2	31	27.28	6	33.28	36	-2.72
EHT 20	5180	Mcs0_Nss2	20	21.44	6	27.44	36	-8.56
EHT 20	5210	Mcs0_Nss2	23	24.62	6	30.62	36	-5.38
EHT 20	5240	Mcs0_Nss2	31	27.10	6	33.10	36	-2.90
EHT 40	5190	Mcs0_Nss2	18	19.21	6	25.21	36	-10.79
EHT 40	5230	Mcs0_Nss2	21	22.92	6	28.92	36	-7.08
EHT 80	5210	Mcs0_Nss2	18	19.41	6	25.41	36	-10.59

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	5180	Mcs0_Nss1	20	21.35	6	27.35	36	-8.65
OFDM 20	5210	Mcs0_Nss1	23	24.55	6	30.55	36	-5.45
OFDM 20	5240	Mcs0_Nss1	28	24.28	6	30.28	36	-5.72
EHT 20	5180	Mcs0_Nss1	20	21.44	6	27.44	36	-8.56
EHT 20	5210	Mcs0_Nss1	23	24.62	6	30.62	36	-5.38
EHT 20	5240	Mcs0_Nss1	29	25.10	6	31.10	36	-4.90
EHT 40	5190	Mcs0_Nss1	18	19.21	6	25.21	36	-10.79
EHT 40	5230	Mcs0_Nss1	21	22.92	6	28.92	36	-7.08
EHT 80	5210	Mcs0_Nss1	18	19.41	6	25.41	36	-10.59

Canada (Indoor Use Only)

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5180	Mcs0_Nss2	13	14.25	6	20.25	23	-2.75
OFDM 20	5210	Mcs0_Nss2	14	13.51	6	19.51	23	-3.49
OFDM 20	5240	Mcs0_Nss2	18	14.33	6	20.33	23	-2.67
EHT 20	5180	Mcs0_Nss2	13	14.34	6	20.34	23	-2.66
EHT 20	5210	Mcs0_Nss2	13	14.72	6	20.72	23	-2.28
EHT 20	5240	Mcs0_Nss2	13	14.42	6	20.42	23	-2.58
EHT 40	5190	Mcs0_Nss2	15	16.17	6	22.17	23	-0.83
EHT 40	5230	Mcs0_Nss2	15	16.74	6	22.74	23	-0.26
EHT 80	5210	Mcs0_Nss2	15	16.44	6	22.44	23	-0.56

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 §15.209 Spurious Emissions

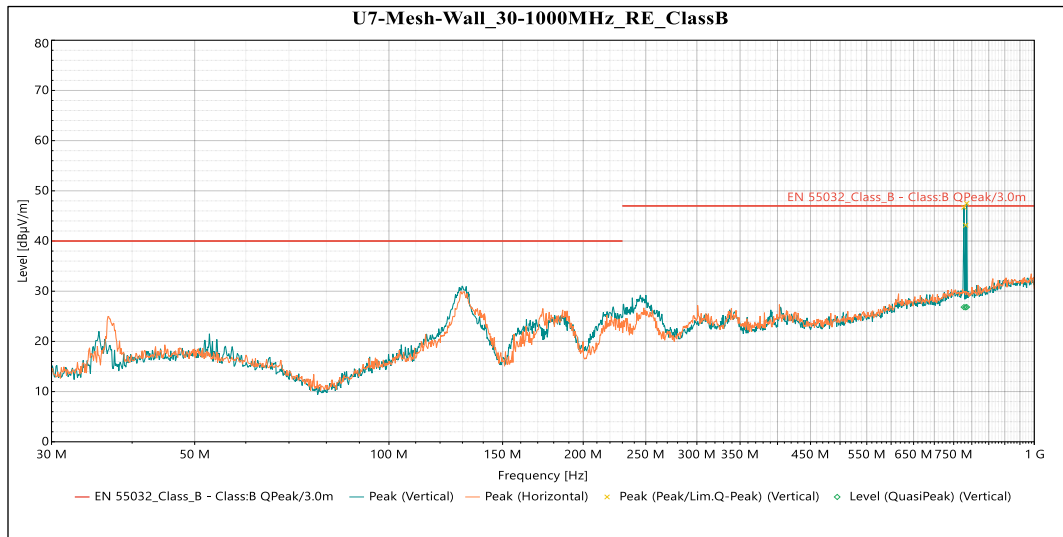
5.5.1 Radiated Spurious Emissions in the Restricted Bands of § 15.205

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 TP31, 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 5180 MHz was measured using radiated measurement or conducted at the antenna port methods. [For radiated] 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 (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), and is added to the Receiver reading.

Result

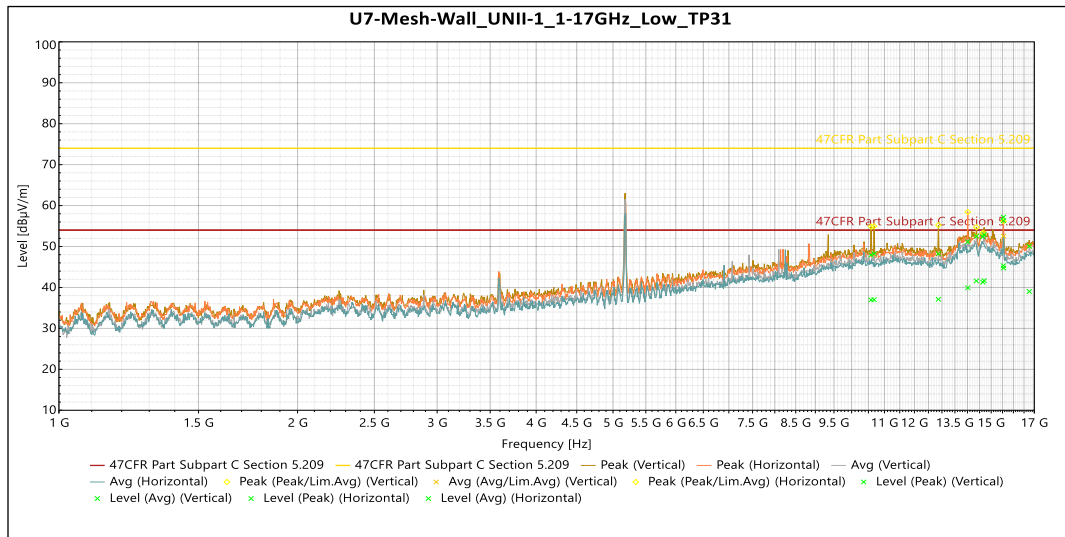
All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. All emissions met the limits specified in § 15.407(b). Representative band edge plots are included in this report. See Annex for Conducted Band edge plots.



QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
778.02 MHz	56.83	47.0	-20.17	33	1.34	Vertical	-3.54
782.75 MHz	26.79	47.0	-20.21	336	1.14	Vertical	-3.52
785.80 MHz	26.84	47.0	-20.16	20	3.3	Vertical	-3.51
No significant emissions were observed in the Horizontal orientation of the antenna							

Table 4: Radiated Emissions 30 – 1000 MHz



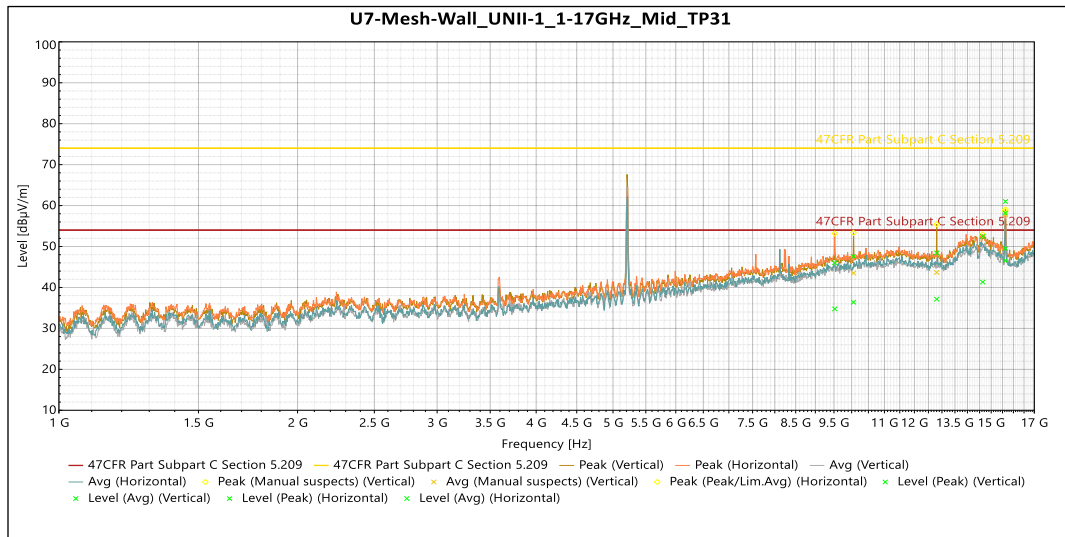
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
14.37 GHz	52.52	74.0	-21.48	16	1.643	Vertical	11.14
14.69 GHz	52.91	74.0	-21.09	288	1.638	Vertical	11.92
15.55 GHz	56.30	74.0	-17.70	27	2.142	Vertical	9.38
16.75 GHz	50.07	74.0	-23.93	353	2.142	Vertical	11.36
14.01 GHz	51.18	74.0	-22.82	192	3.798	Horizontal	10.65
14.64 GHz	52.39	74.0	-21.61	247	3.798	Horizontal	11.85
15.54 GHz	57.17	74.0	-16.83	29	3.802	Horizontal	9.39

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
14.37 GHz	41.59	54.0	-12.41	16	1.643	Vertical	11.14
14.69 GHz	41.68	54.0	-12.32	288	1.638	Vertical	11.92
15.55 GHz	44.76	54.0	-9.24	27	2.142	Vertical	9.38
16.75 GHz	39.01	54.0	-14.99	353	2.142	Vertical	11.36
14.01 GHz	39.92	54.0	-14.08	192	3.798	Horizontal	10.65
14.64 GHz	41.29	54.0	-12.71	247	3.798	Horizontal	11.85
15.54 GHz	45.32	54.0	-8.68	29	3.802	Horizontal	9.39

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



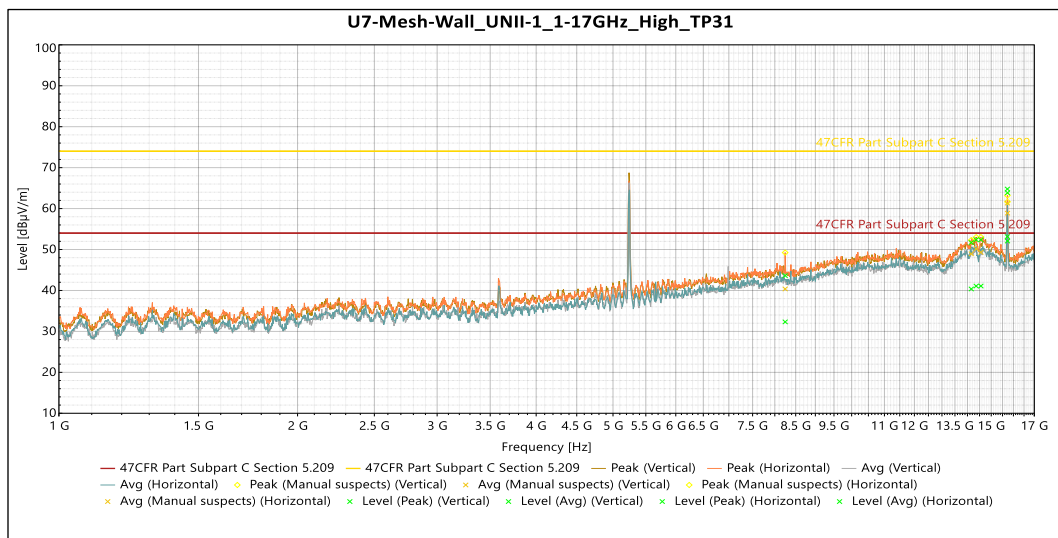
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.06 GHz	47.57	74.0	-26.43	4	1.643	Vertical	5.57
12.80 GHz	48.42	74.0	-25.58	65	1.638	Vertical	7.64
15.63 GHz	60.99	74.0	-13.01	31	2.142	Vertical	9.13
9.52 GHz	46.02	74.0	-27.98	149	3.802	Horizontal	5.39
14.63 GHz	52.47	74.0	-21.53	73	3.798	Horizontal	11.88
15.63 GHz	58.17	74.0	-15.83	35	3.307	Horizontal	9.10

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.06 GHz	36.38	54.0	-17.62	4	1.643	Vertical	5.57
12.80 GHz	37.13	54.0	-16.87	65	1.638	Vertical	7.64
15.63 GHz	49.50	54.0	-4.50	31	2.142	Vertical	9.13
9.52 GHz	34.76	54.0	-19.24	149	3.802	Horizontal	5.39
14.63 GHz	41.32	54.0	-12.68	73	3.798	Horizontal	11.88
15.63 GHz	46.55	54.0	-7.45	35	3.307	Horizontal	9.10

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



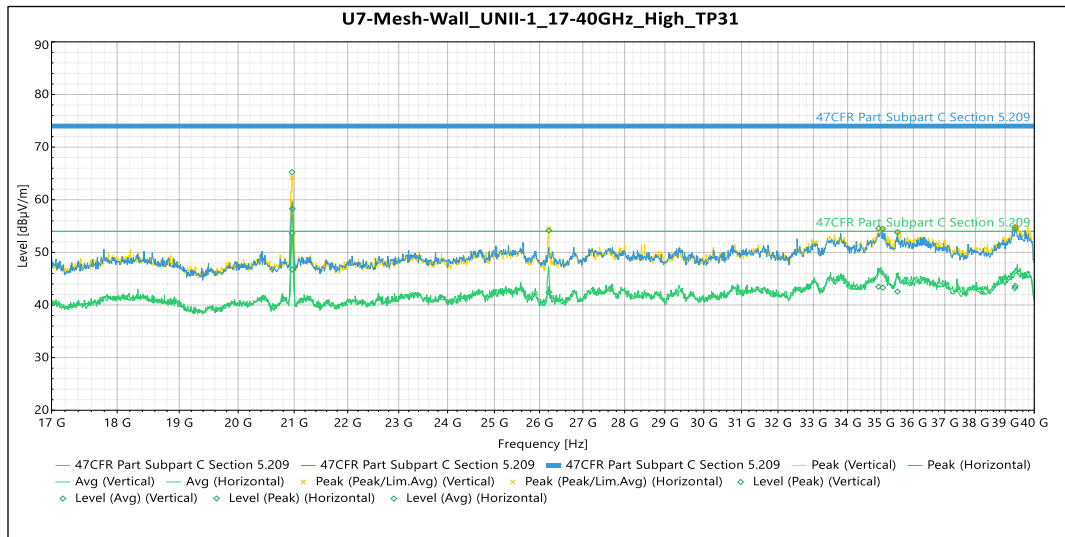
Peak

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
14.16 GHz	51.69	74.0	-22.31	132	132	Vertical	11.15
14.36 GHz	52.38	74.0	-21.62	12	12	Vertical	11.13
15.73 GHz	63.85	74.0	-10.15	31	31	Vertical	8.60
8.25 GHz	43.61	74.0	-30.39	225	3.802	Horizontal	1.47
14.56 GHz	52.39	74.0	-21.61	326	3.311	Horizontal	11.40
15.72 GHz	64.78	74.0	-9.22	101	1.5	Horizontal	8.63

Avg

Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
14.16 GHz	40.36	54.0	-13.64	132	132	Vertical	11.15
14.36 GHz	41.07	54.0	-12.93	12	12	Vertical	11.13
15.73 GHz	52.07	54.0	-1.93	31	31	Vertical	8.60
8.25 GHz	32.32	54.0	-21.68	225	3.802	Horizontal	1.47
14.56 GHz	41.08	54.0	-12.92	326	3.311	Horizontal	11.40
15.72 GHz	53.15	54.0	-0.85	101	1.5	Horizontal	8.63

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



Peak

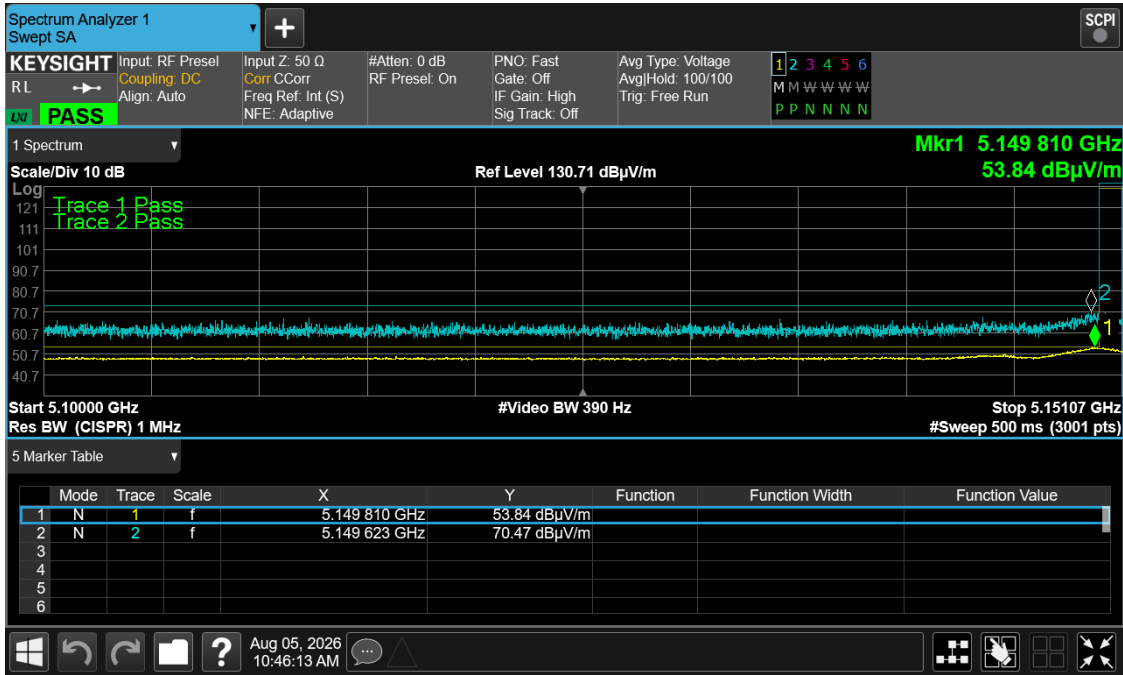
Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
20.96 GHz	65.24	74.0	-8.76	30	Vertical	-0.92
26.21 GHz	54.17	74.0	-19.83	21	Vertical	1.52
34.93 GHz	54.55	74.0	-19.45	316	Vertical	5.61
39.34 GHz	54.75	74.0	-19.25	126	Vertical	3.92
20.97 GHz	58.27	74.0	-15.73	67	Horizontal	-0.94
35.06 GHz	54.45	74.0	-19.55	256	Horizontal	5.46
35.51 GHz	53.81	74.0	-20.19	196	Horizontal	4.81
39.33 GHz	54.37	74.0	19.63	85	Horizontal	3.93

Avg

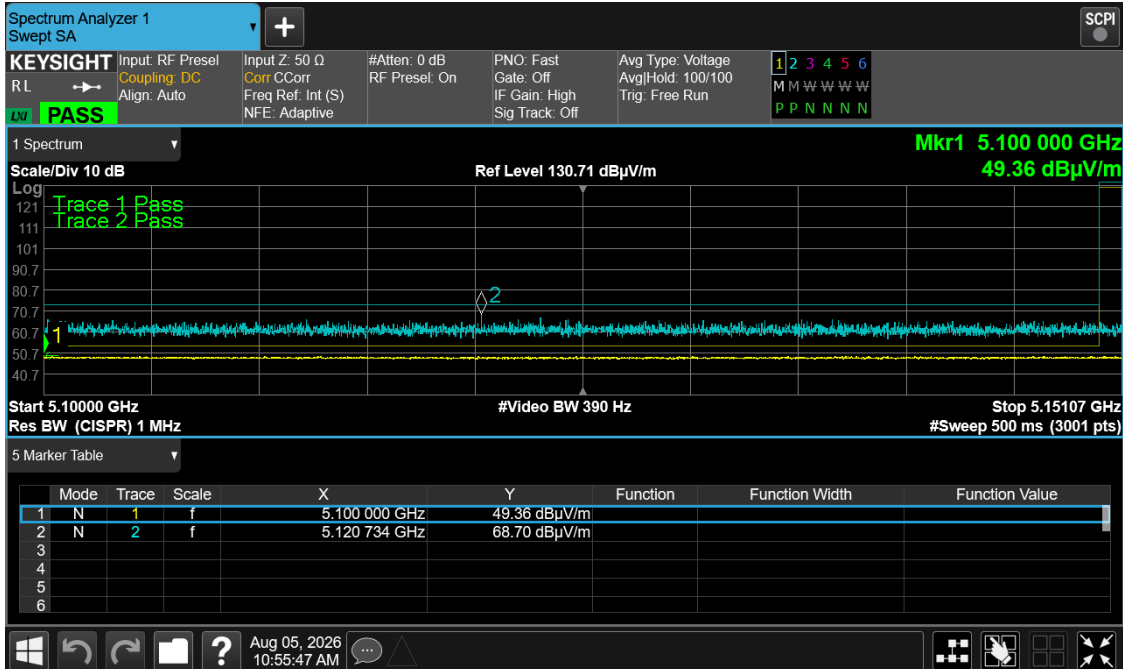
Frequency	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
20.96 GHz	53.70	54.0	-0.30	30	Vertical	-0.92
26.21 GHz	42.44	54.0	-11.56	21	Vertical	1.52
34.93 GHz	43.47	54.0	-10.53	316	Vertical	5.61
39.34 GHz	43.61	54.0	-10.39	126	Vertical	3.92
20.97 GHz	46.74	54.0	-7.26	67	Horizontal	-0.94
35.06 GHz	43.30	54.0	-10.70	256	Horizontal	5.46
35.51 GHz	42.55	54.0	-11.45	196	Horizontal	4.81
39.33 GHz	43.22	54.0	-10.78	85	Horizontal	3.93

Table 8: Radiated Emissions 17 – 40 GHz at the Highest Frequency (worse case)

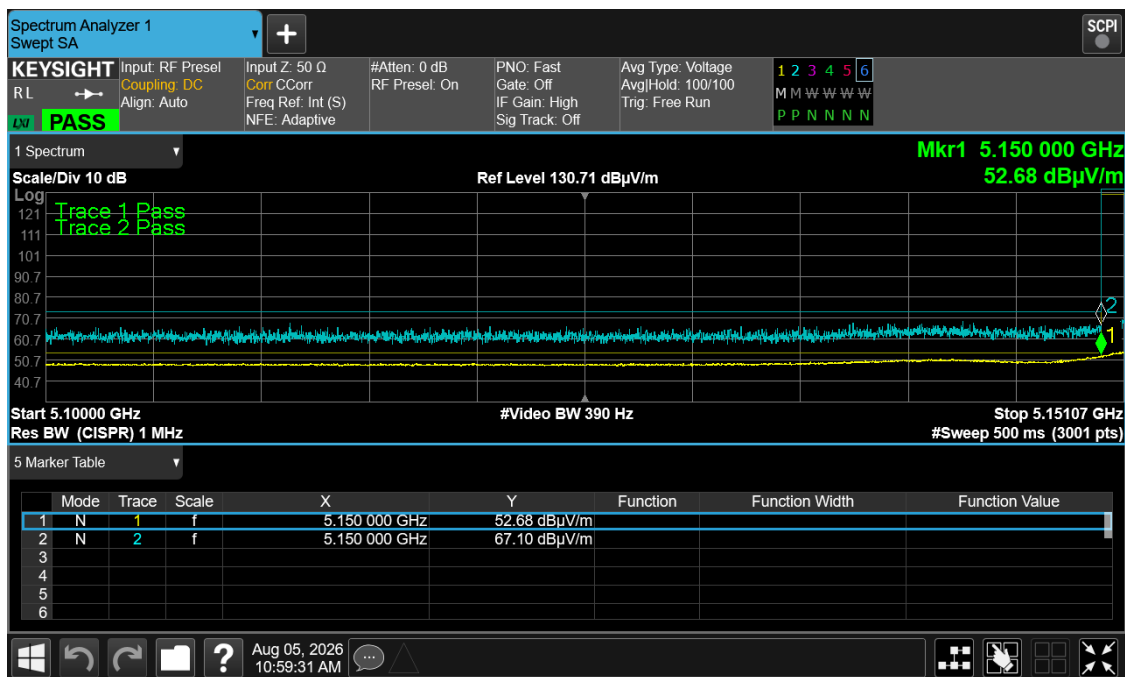
5.5.2 Band Edge



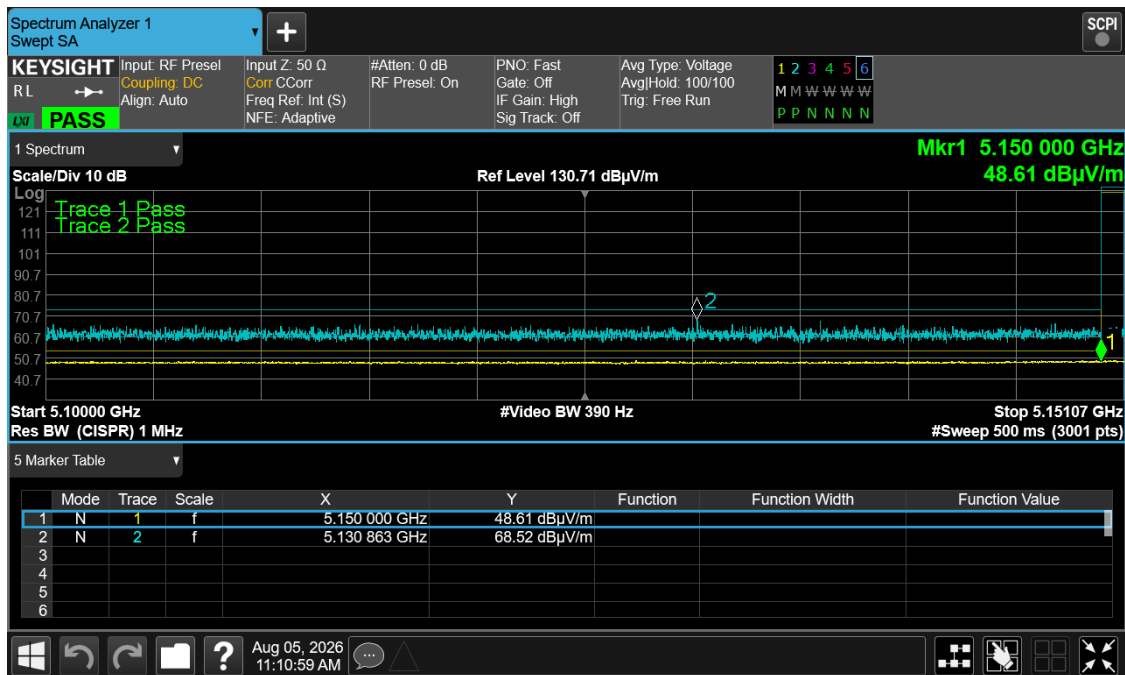
Graph 1: Band Edge Low a Mode 20 MHz



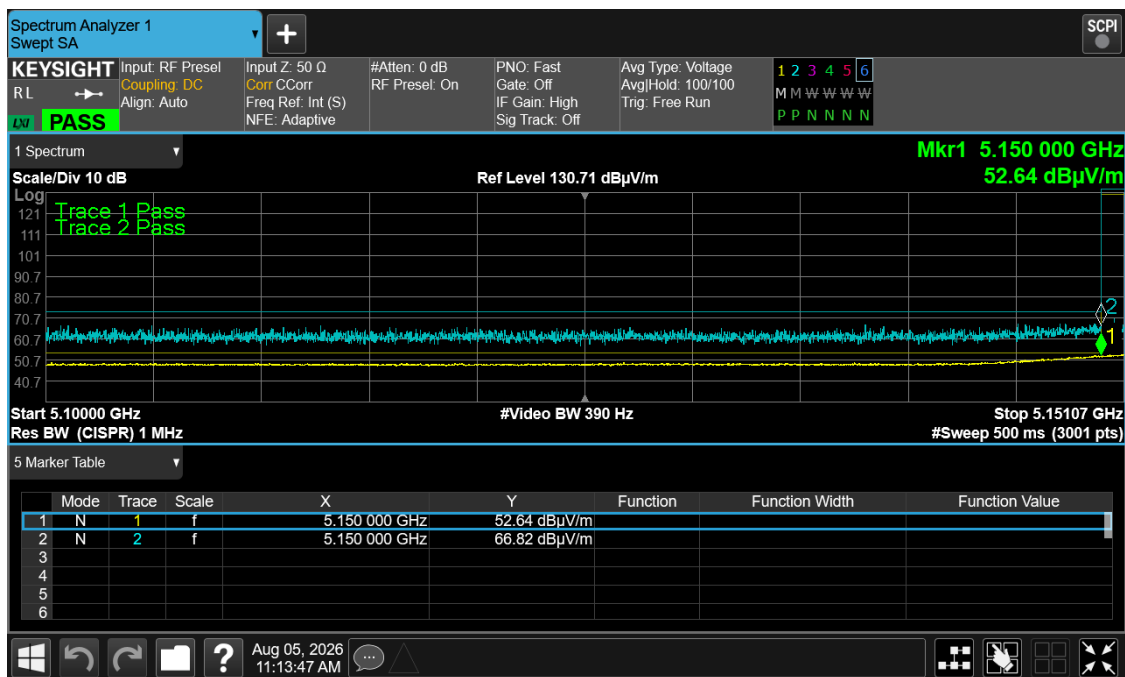
Graph 2: Band Edge High a Mode 20 MHz



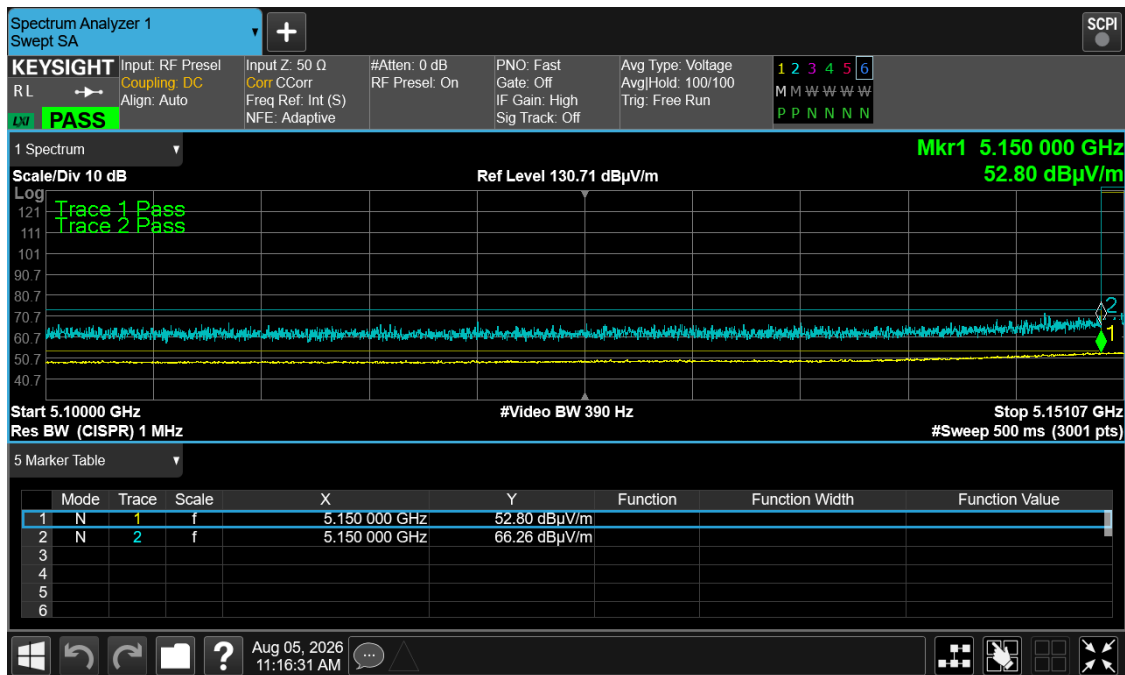
Graph 3: Band Edge Low be Mode 20 MHz



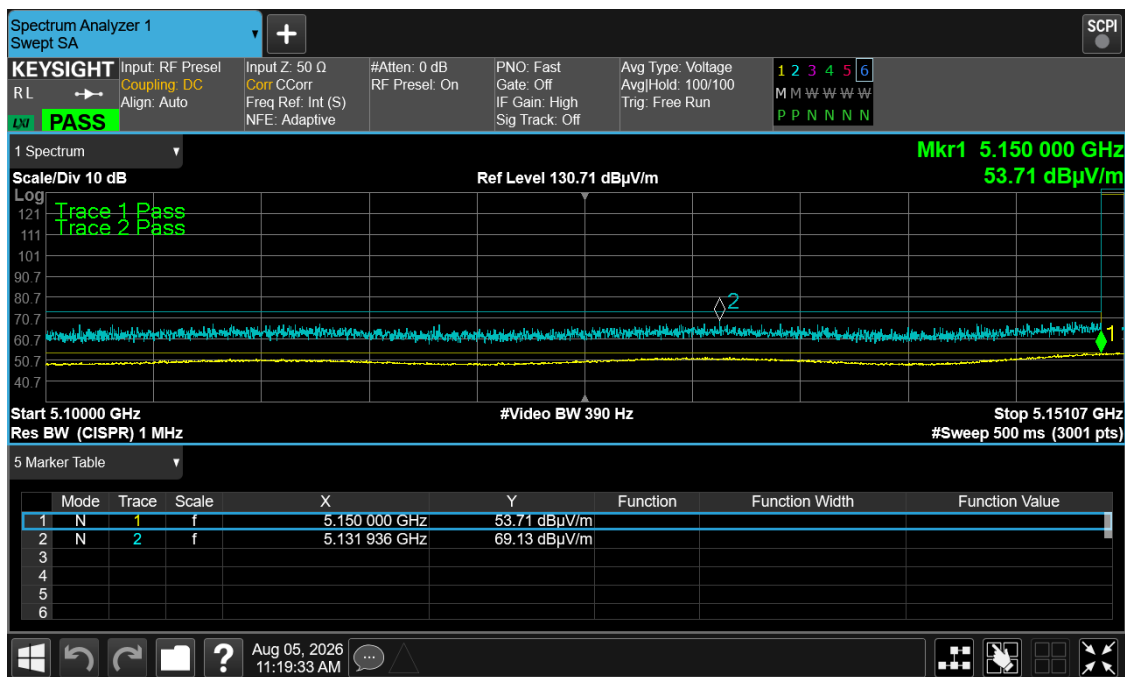
Graph 4: Band Edge High be Mode 20 MHz



Graph 5: Band Edge Low be Mode 40 MHz



Graph 6: Band Edge High be Mode 40 MHz



Graph 7: Band Edge be Mode 80 MHz

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 17 dBm in any 1 MHz 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	5180	Mcs0_Nss2	20	10.76	6	17	-6.24
OFDM 20	5210	Mcs0_Nss2	2	13.97	6	17	-3.03
OFDM 20	5240	Mcs0_Nss2	31	16.35	6	17	-0.65
EHT 20	5180	Mcs0_Nss2	20	10.21	6	17	-6.79
EHT 20	5210	Mcs0_Nss2	23	13.44	6	17	-3.56
EHT 20	5240	Mcs0_Nss2	31	15.54	6	17	-1.46
EHT 40	5190	Mcs0_Nss2	18	5.02	6	17	-11.98
EHT 40	5230	Mcs0_Nss2	21	8.78	6	17	-8.22
EHT 80	5210	Mcs0_Nss2	18	2.93	6	17	-14.07

Nss=1

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5180	Mcs0_Nss1	20	10.76	6	13.99	-3.23
OFDM 20	5210	Mcs0_Nss1	23	13.97	6	13.99	-0.02
OFDM 20	5240	Mcs0_Nss1	28	13.35	6	13.99	-0.64
EHT 20	5180	Mcs0_Nss1	20	10.21	6	13.99	-3.78
EHT 20	5210	Mcs0_Nss1	23	13.44	6	13.99	-0.55
EHT 20	5240	Mcs0_Nss1	29	13.54	6	13.99	-0.45
EHT 40	5190	Mcs0_Nss1	18	5.02	6	13.99	-8.97
EHT 40	5230	Mcs0_Nss1	21	8.78	6	13.99	-5.21
EHT 80	5210	Mcs0_Nss1	18	2.93	6	13.99	-11.06

Canada (Indoor Use Only)

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5180	Mcs0_Nss2	13	3.69	6	4	-0.31
OFDM 20	5210	Mcs0_Nss2	14	2.97	6	4	-1.03
OFDM 20	5240	Mcs0_Nss2	18	3.47	6	4	-0.53
EHT 20	5180	Mcs0_Nss2	13	3.22	6	4	-0.78
EHT 20	5210	Mcs0_Nss2	13	3.53	6	4	-0.47
EHT 20	5240	Mcs0_Nss2	13	2.95	6	4	-1.05
EHT 40	5190	Mcs0_Nss2	15	2.02	6	4	-1.98
EHT 40	5230	Mcs0_Nss2	15	2.61	6	4	-1.39
EHT 80	5210	Mcs0_Nss2	15	-0.06	6	4	-4.06

Result

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

-- End of Test Report --