



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-U6PROR
IC ID	6545A-U6PROR
Equipment Under Test	U6-Pro
Test Report Serial Number	TR5785_01
Date of Test(s)	20, 21, 27 January and 2, 3 February 2021
Report Issue Date	3 February 2021

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C	Ubiquiti Inc. 685 Third Avenue New York, NY 10019 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

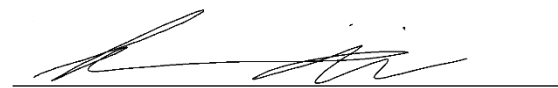
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Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UniFi
Model Number	U6-Pro
FCC ID	SWX-U6PROR
IC ID	6545A-U6PROR

On this 3rd day of February 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.

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Unified Compliance Laboratory



Written By: Alex Macon



Reviewed By: Joseph W. Jackson

Revision History		
Revision	Description	Date
01	Original Report Release	3 February 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	UniFi
Model Number	U6-Pro
Serial Number	FCECDAFFA7DA
Dimensions (cm)	19.67 x 19.67 x 3.5

2.2 Description of EUT

The U6-Pro is a dual-band WiFi 6 (802.11ax) access point that represents the next generation of competitively priced, prosumer wireless technology for home and enterprise users. Delivering blazing throughput speeds of up to 5.3 Gbps over its 5 and 2.4GHz channels. The U6-Pro utilizes a 4x4 5 GHz radio and a 2x2 2.4 GHz radio and is powered by 802.3at POE. The EUT uses an integral antenna with a gain of 6 dBi in the 5 GHz range and 3 dBi in the 2.4 GHz range

This report covers the circuitry of the device subject to FCC Part 15, Subpart C. 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: UniFi MN: U6-Pro SN: FCECDAFFA7DA	WiFi Access Point	See Section 2.4
BN: Ubiquiti MN: U-POE-at SN: N/A	PoE Power Adapter	Unshielded Cat 5e cable/1 meters
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Unshielded Cat 5e cable/1 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
AC Mains	1	3 conductor power cord/80 cm
POE (POE Injector)	1	Unshielded Cat 5e cable/8 meters
LAN (POE Injector)	1	Unshielded Cat 5e cable/1 meters

2.5 Operating Environment

Power Supply	120 VAC
AC Mains Frequency	60 Hz
Temperature	22.4 – 22.7 °C
Humidity	15.5 – 21.5 %
Barometric Pressure	1015 mBar

2.6 Operating Modes

The U6-Pro was connected to a personal computer laptop and tested using test software in order to enable to constant duty cycle greater or equal to 98% of the WiFi transceiver. All emission modes of 802.11 b/g/n/ax were investigated.

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

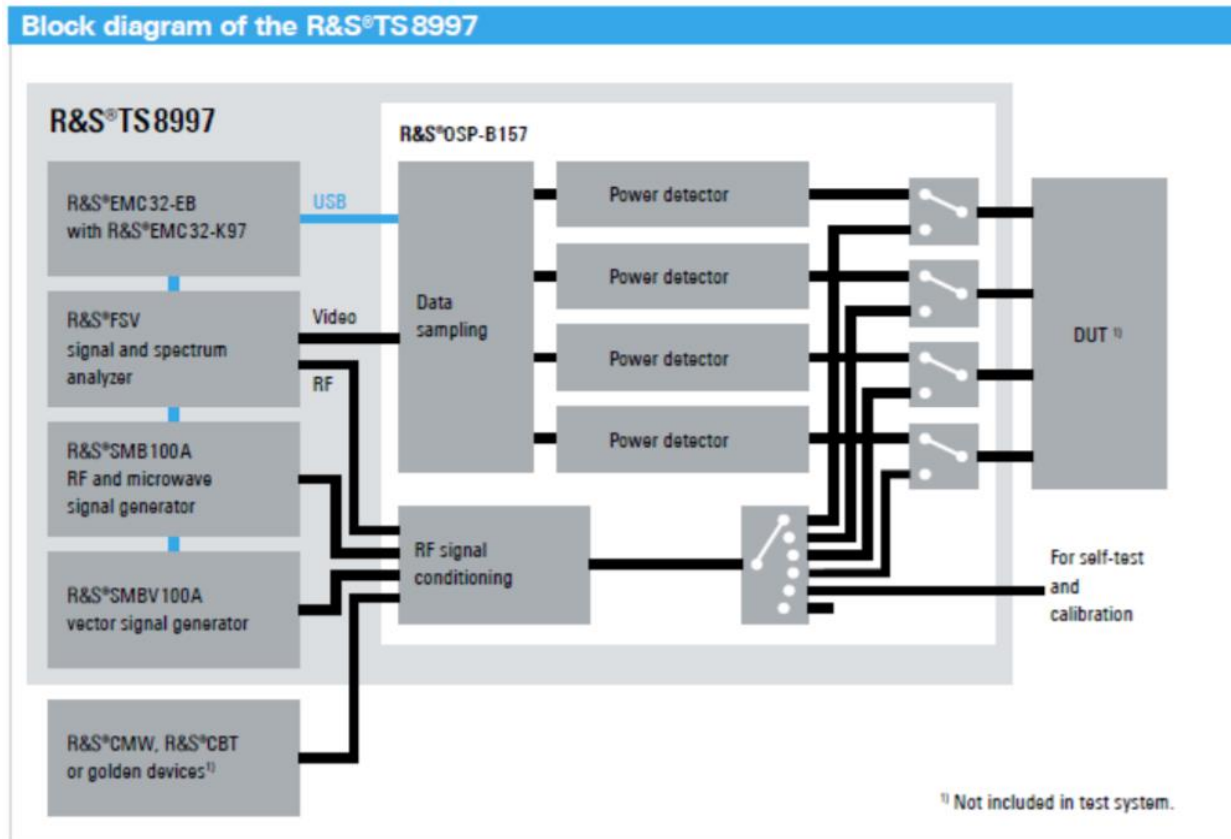


Diagram 1: Test Configuration Block Diagram

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 C 15.203, 15.207 and 15.247 Limits and methods of measurement of radio interference characteristics of radio frequency 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 15.203

See test standard for details.

3.2.2 47 CFR FCC Part 15 Section 15.207

See test standard for details.

3.2.3 47 CFR FCC Part 15 Section 15.247

See test standard for details.

3.3 FCC Part 15, Subpart C

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
15.247(a)	RSS-247 § 5.2	Bandwidth Requirement	2400 to 2483.5	Compliant
15.247(b)	RSS-247 § 5.4	Peak Output Power	2400 to 2483.5	Compliant
15.247(d)	RSS-247 § 5.4	Antenna Conducted Spurious Emissions	0.009 to 25000	Compliant
15.247(d)	RSS-247 § 5.4	Radiated Spurious Emissions	0.009 to 25000	Compliant
15.247(e)	RSS-247 § 5.2	Peak Power Spectral Density	2400 to 2483.5	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15.				

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 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 2021. This site has also been registered with Innovations, Science and Economic Development (ISED) department and was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until June 30, 2021. 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	9/18/2021
LISN	AFJ	LS16C/10	UCL-2512	5/26/2020	5/26/2021
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	5/18/2020	5/18/2021
ISN	Teseq	ISN T800	UCL-2974	6/1/2020	6/1/2021
LISN	Com-Power	LIN-120C	UCL-2612	5/19/2020	5/19/2021
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

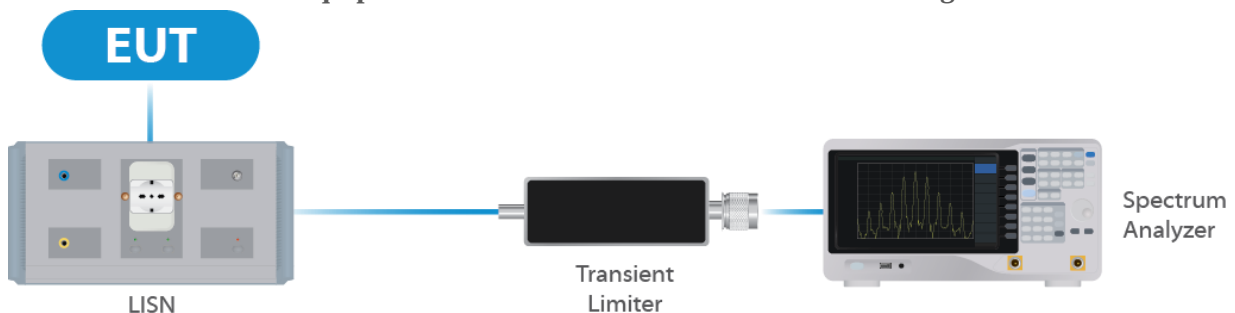


Figure 1: Conducted Emissions Test

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	8/24/2021
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	8/25/2020	8/25/2021
Switch Extension	R&S	OSP-150W	UCL-2870	8/21/2020	8/21/2021

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

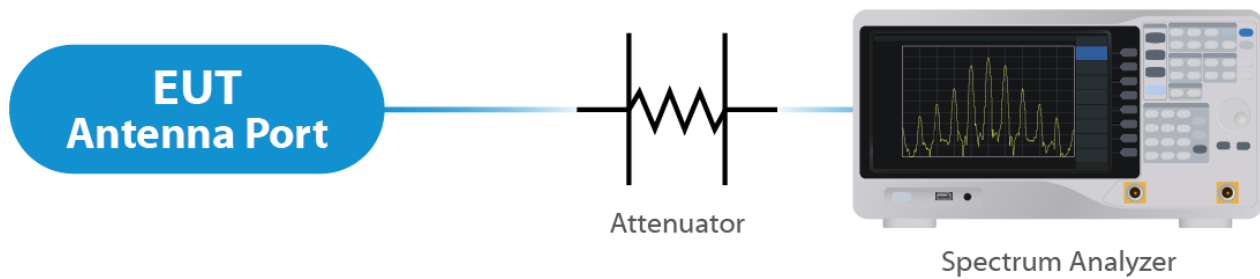


Figure 2: Direct Connect at the Antenna Port Test

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	6/1/2020	6/1/2021
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	9/10/2020	9/10/2021
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	7/8/2020	7/8/2021
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	5/20/2020	5/20/2021
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2021
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	9/29/2020	9/29/2021
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

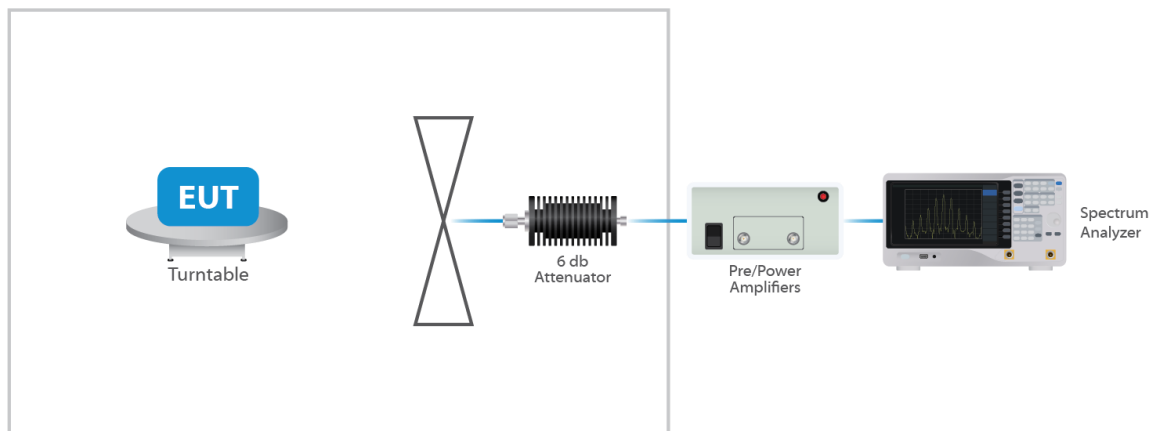


Figure 3: Radiated Emissions Test

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

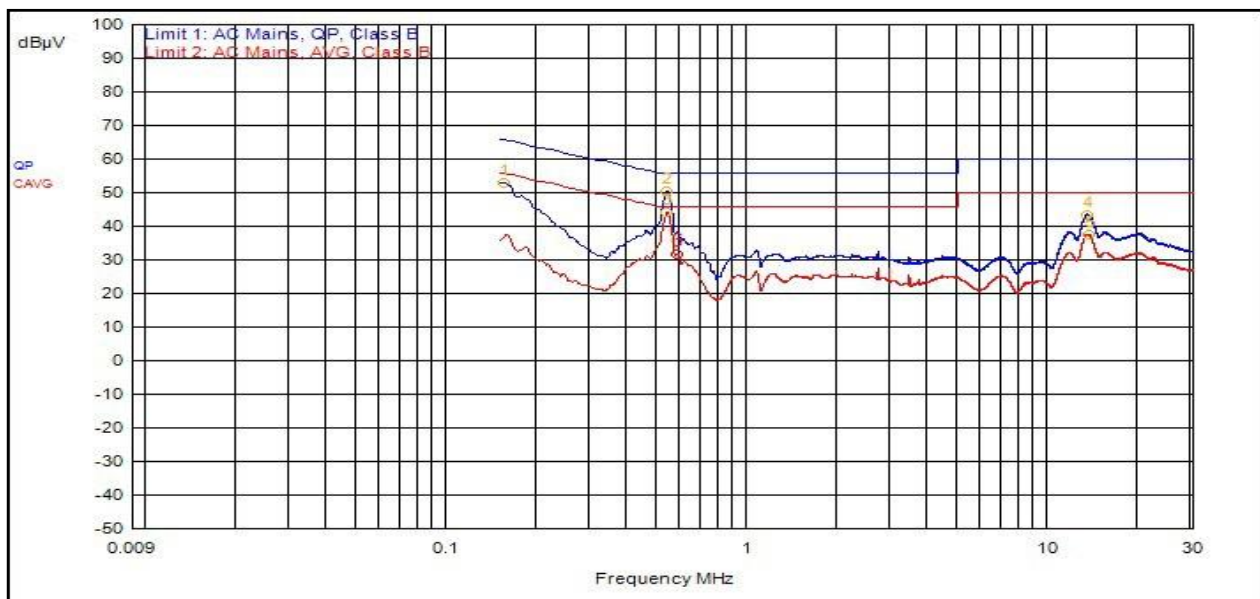
5.1 §15.203 Antenna Requirements

The EUT uses an integral antenna. The Maximum gain of the antenna is 3.0 dBi. The antenna is not user replaceable.

Results

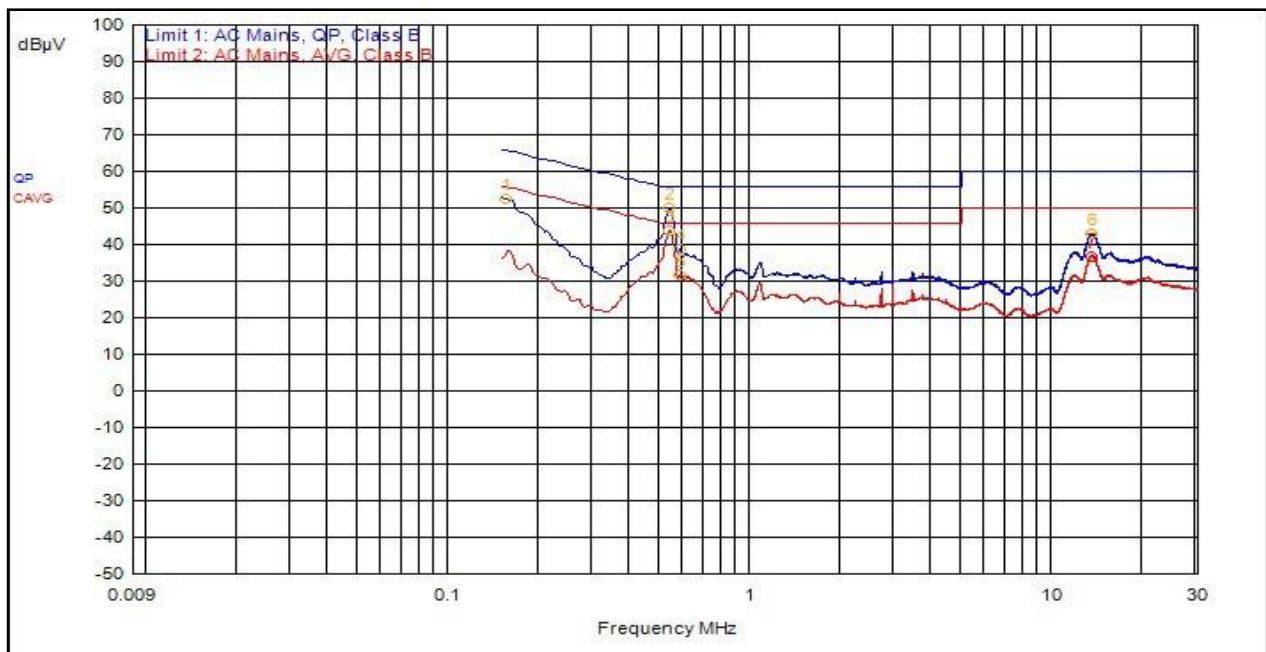
The EUT complied with the specification.

5.2 Conducted Emissions at Mains Ports Data



Graph 1: Conducted Emissions Plot - Neutral

Frequency	Probe	Cable	Detector	Meter Read	Meas Level	Limit	Limit Dist.
537.000kHz	12.4	0.0	C_AVG	31.9	44.3	46.0	-1.7
537.000kHz	12.4	0.0	QPeak	38.1	50.6	56.0	-5.4
13.440MHz	12.4	0.2	C_AVG	25.0	37.7	50.0	-12.3
153.000kHz	12.4	0.0	QPeak	40.7	53.1	65.8	-12.7
579.000kHz	12.4	0.0	C_AVG	19.4	31.8	46.0	-14.2
13.380MHz	12.4	0.2	QPeak	30.8	43.4	60.0	-16.6



Graph 2: Conducted Emissions Plot – Line 1

Frequency	Probe	Cable	Detector	Meter Read	Meas Level	Limit	Limit Dist.
537.000kHz	12.4	0.0	C_AVG	31.2	43.7	46.0	-2.3
537.000kHz	12.4	0.0	QPeak	37.7	50.1	56.0	-5.9
153.000kHz	12.4	0.0	QPeak	40.3	52.6	65.8	-13.2
13.320MHz	12.4	0.2	C_AVG	24.1	36.8	50.0	-13.2
582.000kHz	12.4	0.0	C_AVG	19.4	31.8	46.0	-14.2
13.380MHz	12.4	0.2	QPeak	30.3	42.9	60.0	-17.1
579.000kHz	12.4	0.0	QPeak	26.4	38.8	56.0	-17.2

Result

The EUT complied with the specification limit.

5.3 §15.247(a)(2) Emissions Bandwidth

Mode	Frequency (MHz)	Emissions 6 dB Bandwidth (MHz)	Emissions 99% Bandwidth (MHz)
b	2412	9.1	13.8
	2437	8.1	13.9
	2462	9.1	13.7
g	2412	16.1	16.3
	2437	15.1	16.8
	2462	15.4	16.3
n20	2412	16.4	17.5
	2437	17.3	17.7
	2462	17.6	17.6
n40	2422	34.5	36.2
	2437	34.5	36.0
	2452	30.1	35.7

Result

In the configuration tested, the 6 dB bandwidth was greater than 500 kHz; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plot within the Annex).

5.4 §15.247(b)(3) Maximum Average Output Power

The maximum average RF conducted output power measured for this device was 23.9 dBm or 245.47mW. The limit is 30 dBm or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 3.0 dBi.

Mode	Frequency (MHz)	Power Setting	Measured Output Power (dBm)
B	2412	19.5	21.7
	2417	20	22.7
	2437	21.5	23.9
	2457	21.5	23.9
	2462	19	21.9
G	2412	15.5	18.1
	2417	18	20.7
	2437	20.5	23.1
	2457	17.5	20.2
	2462	16.5	19.5
N20	2412	15.5	17.7
	2417	18.5	20.8
	2437	20.5	22.8
	2457	18	20.3
	2462	15.5	18.1
N40	2422	12	14.7
	2437	14	16.8
	2452	12.5	15.2
AX20	2412	14.5	16.3
	2417	17	18.9
	2437	20.5	22.4
	2457	17.5	19.5
	2462	14	16.2
AX40	2422	12	14.4
	2437	14	16.5
	2452	12	14.3

Result

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

5.5 §15.247(d) 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 table show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown within the Annex are plot(s) with the EUT tuned to the upper and lower channels. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be attenuated 30 dB below the highest power spectral density level measured within the authorized band as measured with a 100 kHz RBW.

Result

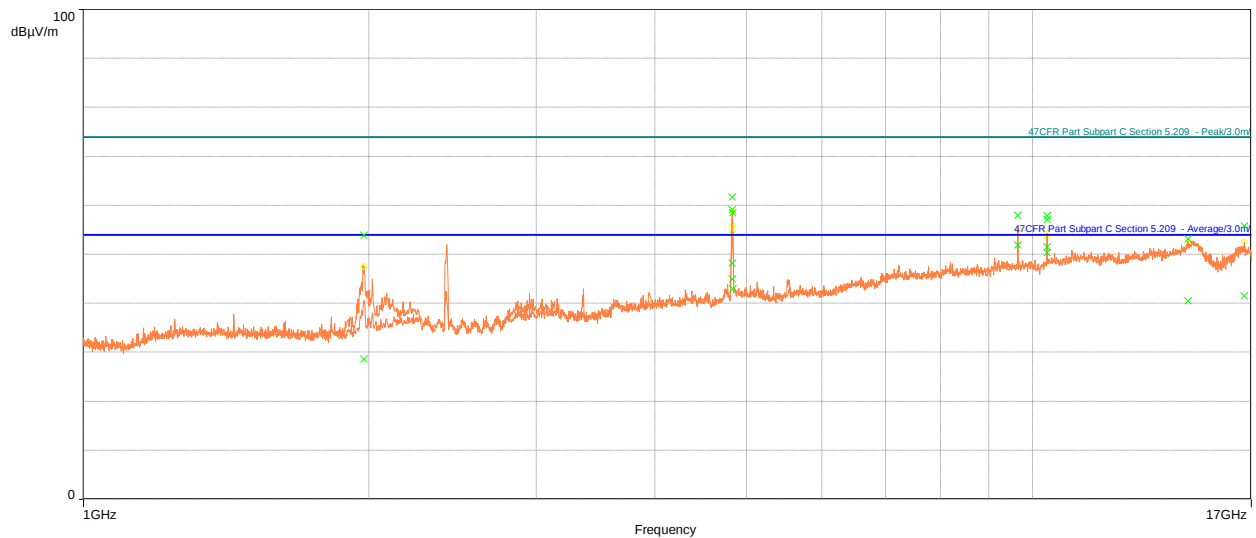
Conducted spurious emissions were attenuated 30 dB or more below the fundamental; therefore, the EUT complies with the specification.

5.5.2 Radiated Spurious Emissions in the Restricted Bands of §15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. The following tables show measurements of any emissions that fell into the restricted bands of §15.205. The tables show the worst-case emissions measured from the EUT. For frequencies above 18.0 GHz, a measurement distance of 1 meter was used. The noise floor was a minimum of 6 dB below the limits. The emissions in the restricted bands must meet the limits specified in §15.209. Tabular data for each of the spurious emissions is shown below for each of the units. Plots of the band edges are also shown.

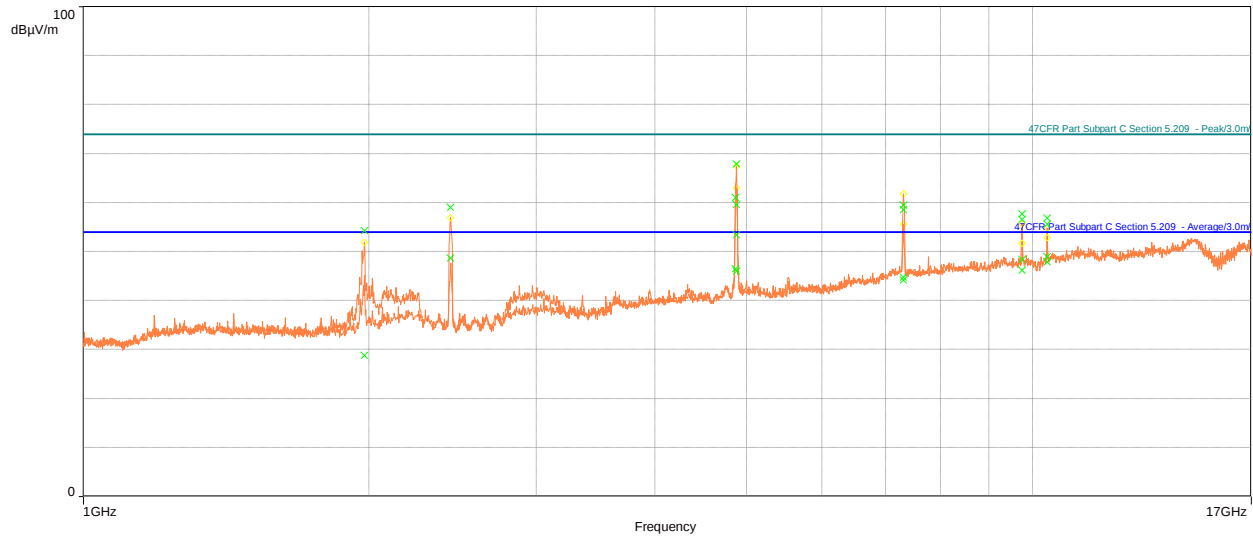
Result

All emissions in the restricted bands of §15.205 met the limits specified in §15.209; therefore, the EUT complies with the specification.



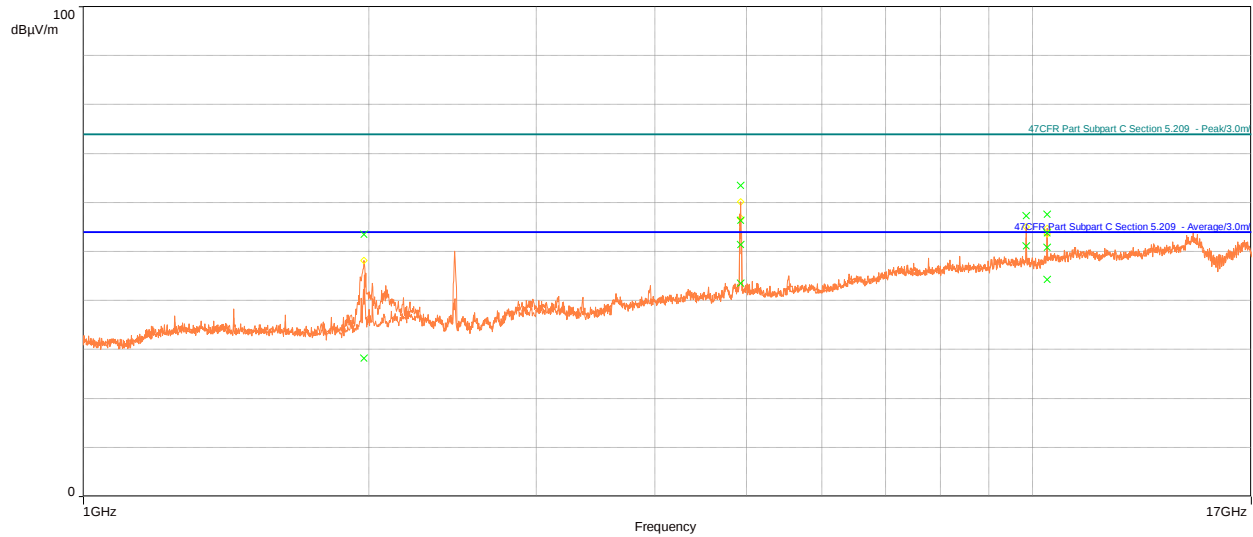
Frequency (MHz)	Det.	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
1975.3	Avg	28.61	54.00	-25.39	356.00	2.62	Vertical	-5.92
4824.1	Avg	48.23	54.00	-5.77	306.00	3.66	Vertical	2.54
4832.5	Avg	42.96	54.00	-11.04	304.00	3.32	Vertical	2.56
9647.9	Avg	51.89	54.00	-2.11	80.00	3.22	Vertical	11.51
10360	Avg	51.51	54.00	-2.49	254.00	3.19	Vertical	13.25
4824.2	Avg	44.94	54.00	-9.06	343.00	3.87	Horizontal	2.54
10360	Avg	50.42	54.00	-3.58	184.00	3.75	Horizontal	13.25
14590	Avg	40.51	54.00	-13.49	177.00	1.97	Horizontal	18.17
16724	Avg	41.54	54.00	-12.46	198.00	2.12	Horizontal	19.70
1975.3	Pk	53.86	74.00	-20.14	356.00	2.62	Vertical	-5.92
4824.1	Pk	61.69	74.00	-12.31	306.00	3.66	Vertical	2.54
4832.5	Pk	58.42	74.00	-15.58	304.00	3.32	Vertical	2.56
9647.9	Pk	58.01	74.00	-15.99	80.00	3.22	Vertical	11.51
10360	Pk	57.94	74.00	-16.06	254.00	3.19	Vertical	13.25
4824.2	Pk	59.10	74.00	-14.90	343.00	3.87	Horizontal	2.54
10360	Pk	57.17	74.00	-16.83	184.00	3.75	Horizontal	13.25
14590	Pk	53.11	74.00	-20.89	177.00	1.97	Horizontal	18.17
16724	Pk	55.82	74.00	-18.18	198.00	2.12	Horizontal	19.70

Table 4: Transmitting at the Lowest Frequency



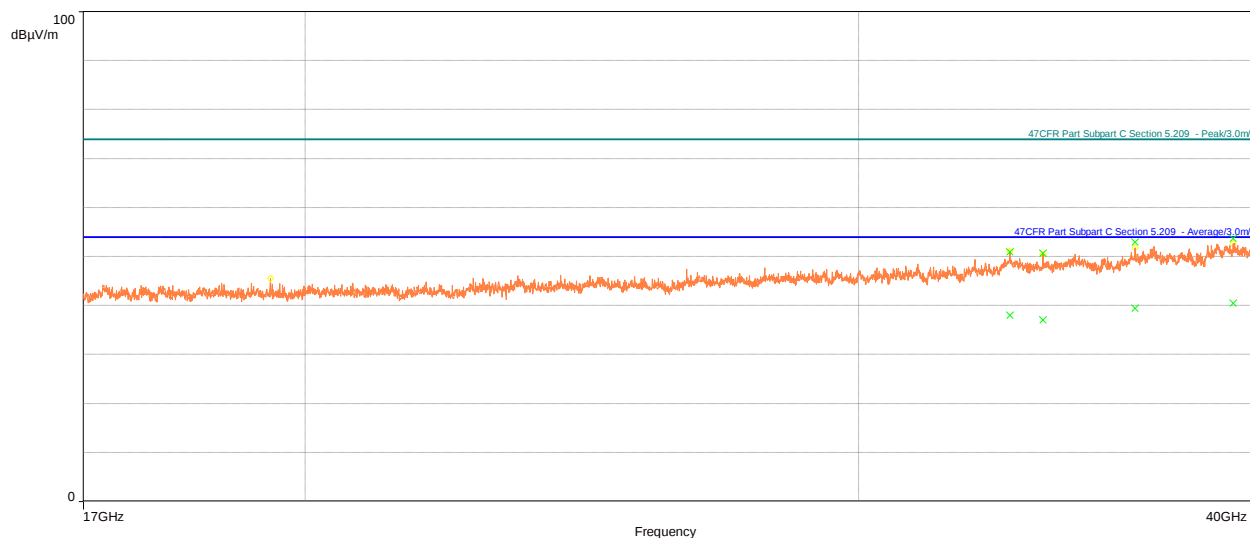
Frequency (MHz)	Det.	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
1977.8	Avg	28.85	54.00	-25.15	3.00	3.70	Vertical	-5.87
2435.8	Avg	48.69	54.00	-5.31	307.00	2.87	Vertical	-4.22
4874.7	Avg	53.46	54.00	-0.54	276.00	2.86	Vertical	2.66
7313.1	Avg	44.82	54.00	-9.18	118.00	2.63	Vertical	9.66
9748.2	Avg	46.20	54.00	-7.80	108.00	2.23	Vertical	11.67
10360	Avg	47.96	54.00	-6.04	108.00	3.45	Vertical	13.25
4865.5	Avg	46.53	54.00	-7.47	165.00	3.36	Horizontal	2.52
4874.2	Avg	45.99	54.00	-8.01	186.00	3.23	Horizontal	2.66
7311.4	Avg	44.21	54.00	-9.79	276.00	2.75	Horizontal	9.66
9747.9	Avg	48.40	54.00	-5.60	157.00	3.46	Horizontal	11.67
10360	Avg	48.93	54.00	-5.07	190.00	3.93	Horizontal	-5.87
1977.8	Pk	54.24	74.00	-19.76	3.00	3.70	Vertical	-5.87
2435.8	Pk	59.01	74.00	-14.99	307.00	2.87	Vertical	-4.22
4874.7	Pk	67.87	74.00	-6.13	276.00	2.86	Vertical	2.66
7313.1	Pk	59.48	74.00	-14.52	118.00	2.63	Vertical	9.66
9748.2	Pk	56.61	74.00	-17.39	108.00	2.23	Vertical	11.67
10360	Pk	55.63	74.00	-18.37	108.00	3.45	Vertical	13.25
4865.5	Pk	61.04	74.00	-12.96	165.00	3.36	Horizontal	2.52
4874.2	Pk	59.60	74.00	-14.40	186.00	3.23	Horizontal	2.66
7311.4	Pk	58.57	74.00	-15.43	276.00	2.75	Horizontal	9.66
9747.9	Pk	57.71	74.00	-16.29	157.00	3.46	Horizontal	11.67
10360	Pk	56.88	74.00	-17.12	190.00	3.93	Horizontal	-5.87

Table 5: Transmitting at the Middle Frequency



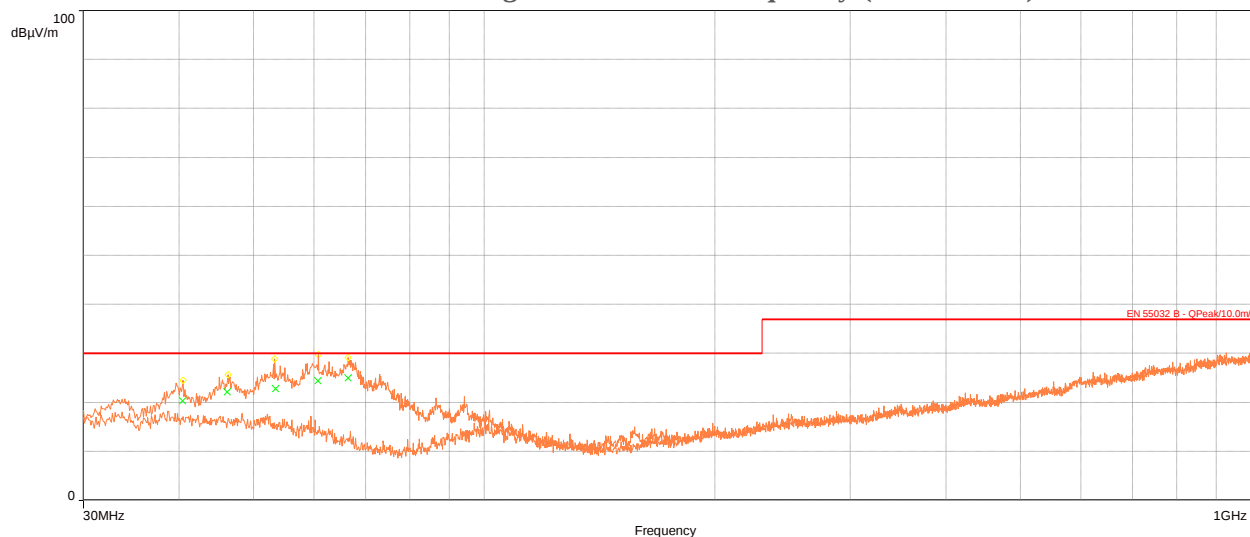
Frequency (MHz)	Det.	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
1973.7	Avg	28.26	54.00	-25.74	359.00	3.10	Vertical	-5.94
4924.1	Avg	51.39	54.00	-2.61	279.00	2.99	Vertical	2.80
9848.2	Avg	51.18	54.00	-2.82	81.00	2.99	Vertical	11.87
10360	Avg	50.89	54.00	-3.11	84.00	2.75	Vertical	13.25
4924.1	Avg	43.52	54.00	-10.48	13.00	3.08	Horizontal	2.80
10360	Avg	44.34	54.00	-9.66	235.00	1.79	Horizontal	13.25
1973.7	Pk	53.50	74.00	-20.50	359.00	3.10	Vertical	-5.94
4924.1	Pk	63.50	74.00	-10.50	279.00	2.99	Vertical	2.80
9848.2	Pk	57.30	74.00	-16.70	81.00	2.99	Vertical	11.87
10360	Pk	57.62	74.00	-16.38	84.00	2.75	Vertical	13.25
4924.1	Pk	56.34	74.00	-17.66	13.00	3.08	Horizontal	2.80
10360	Pk	53.77	74.00	-20.23	235.00	1.79	Horizontal	13.25

Table 6: Transmitting at the Highest Frequency

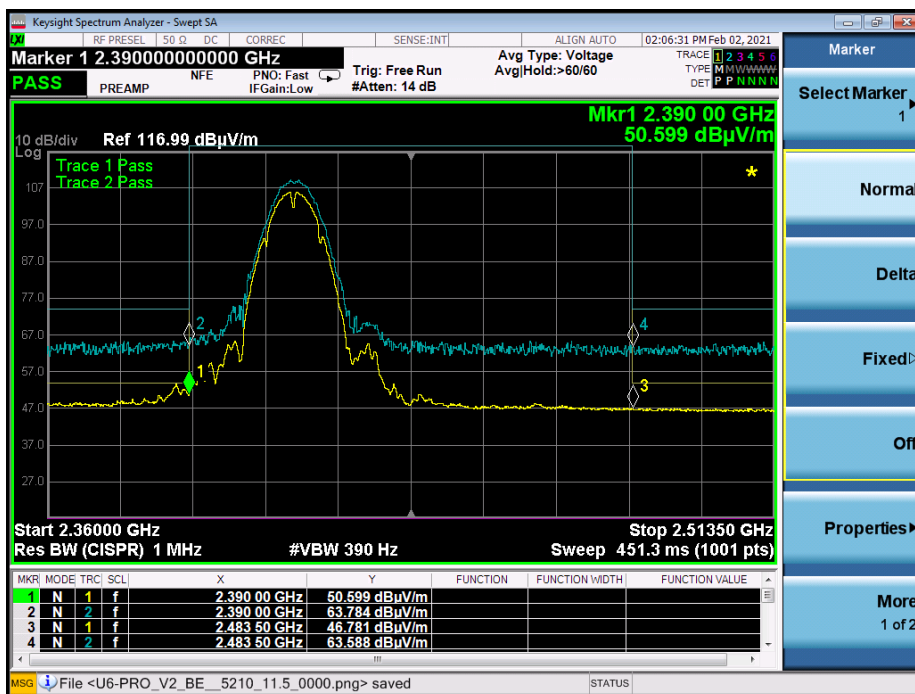


Frequency (MHz)	Det.	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
33520	Pk	50.96	74.00	-23.04	1.00	Horizontal	1.55
34334	Avg	50.63	74.00	-23.37	192.00	Horizontal	0.17
36734	Avg	52.91	74.00	-21.09	75.00	Horizontal	0.83
39466	Avg	53.73	74.00	-20.27	109.00	Horizontal	3.32

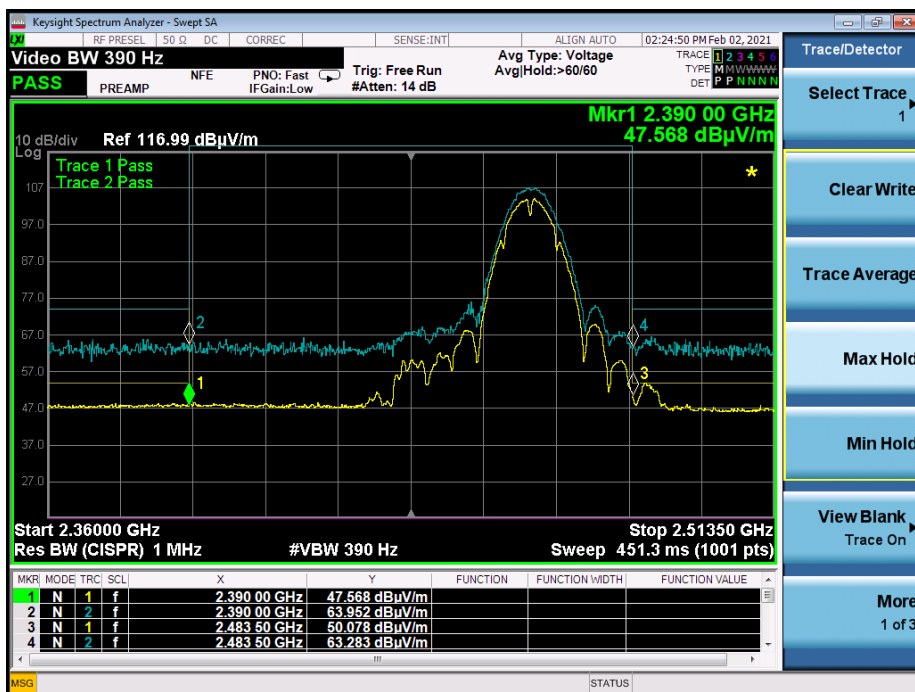
Table 7: Transmitting at the Middle Frequency (Worst Case)



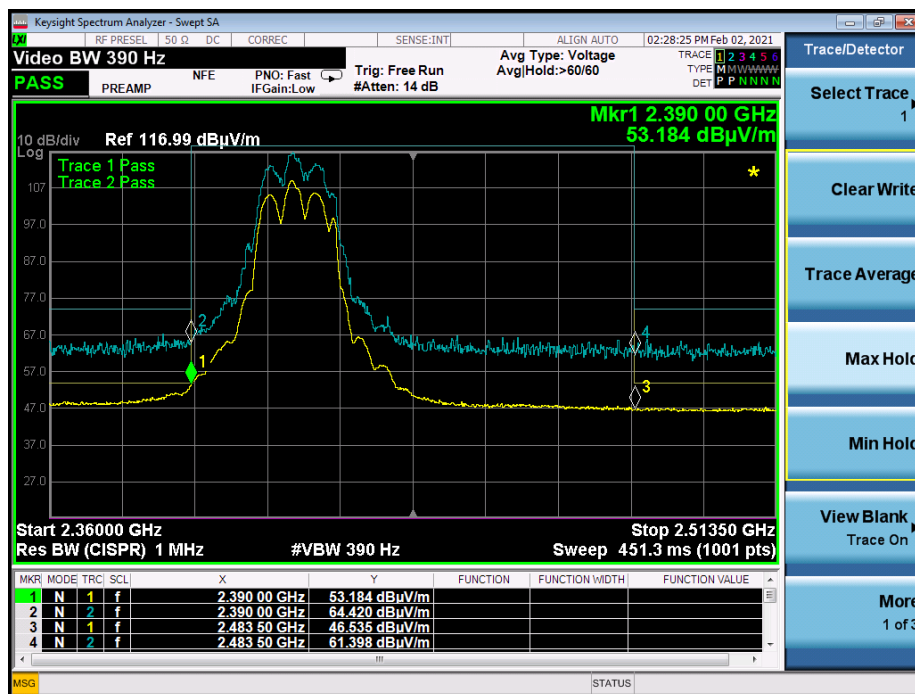
*No spurious emissions were found below 1 GHz. The emissions seen above are from the digital circuitry.



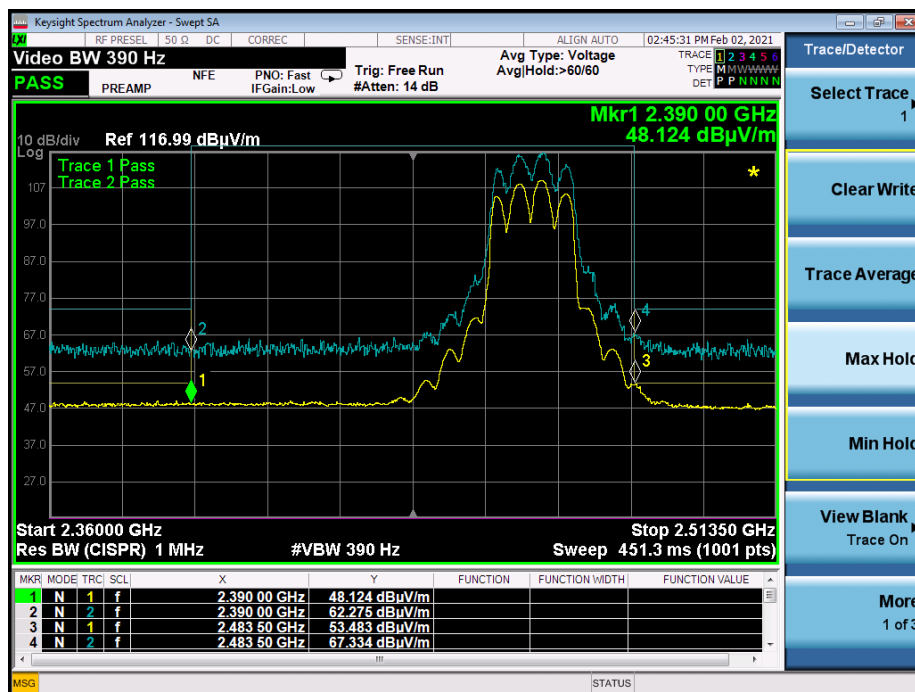
Graph 3: Radiated Lower Band Edge Plot b mode



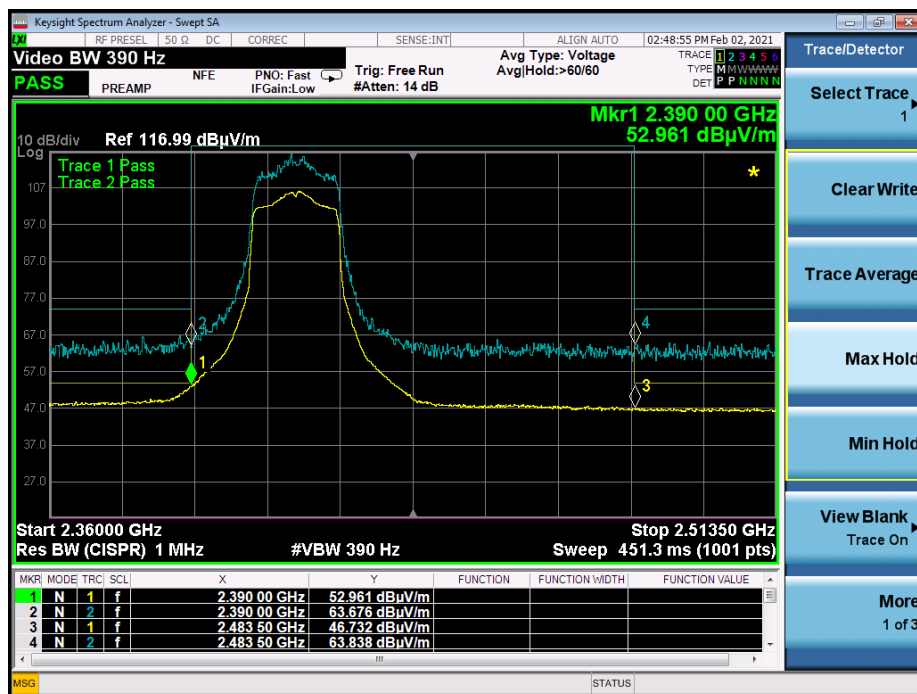
Graph 4: Radiated Upper Band Edge Plot b mode



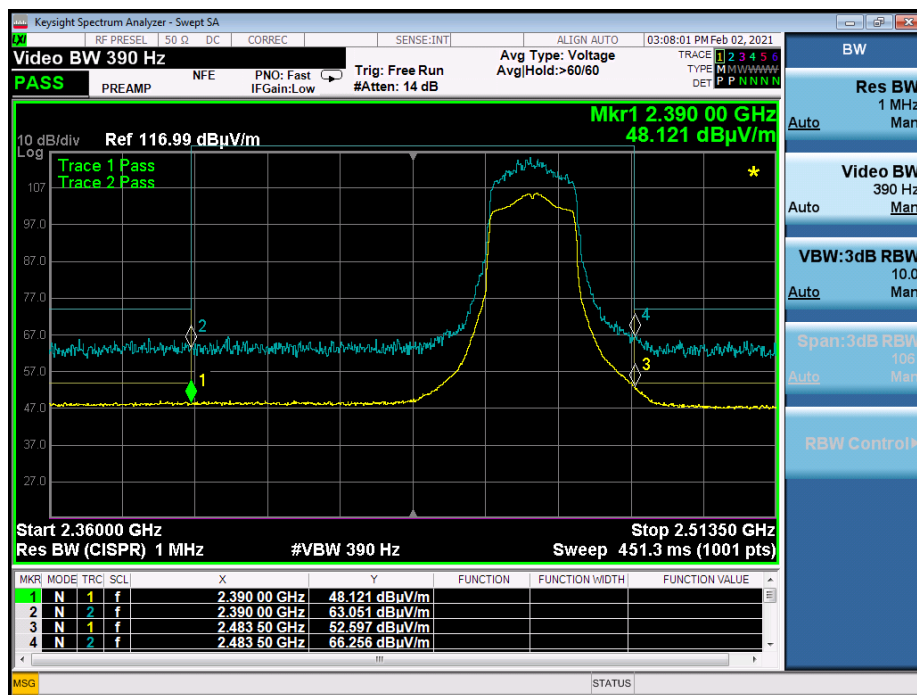
Graph 5: Radiated Lower Band Edge Plot g mode



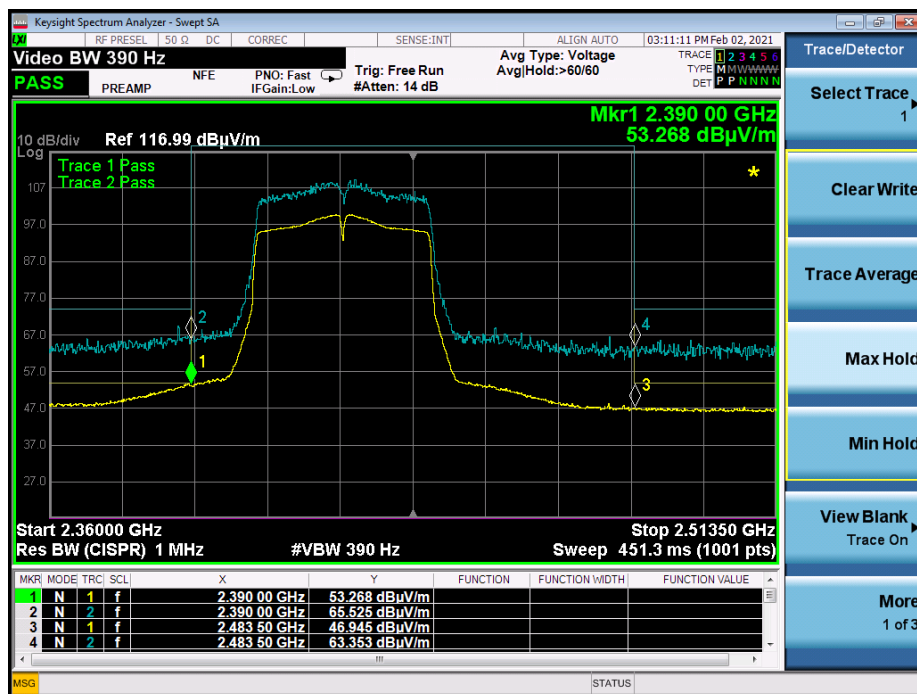
Graph 6: Radiated Upper Band Edge Plot g mode



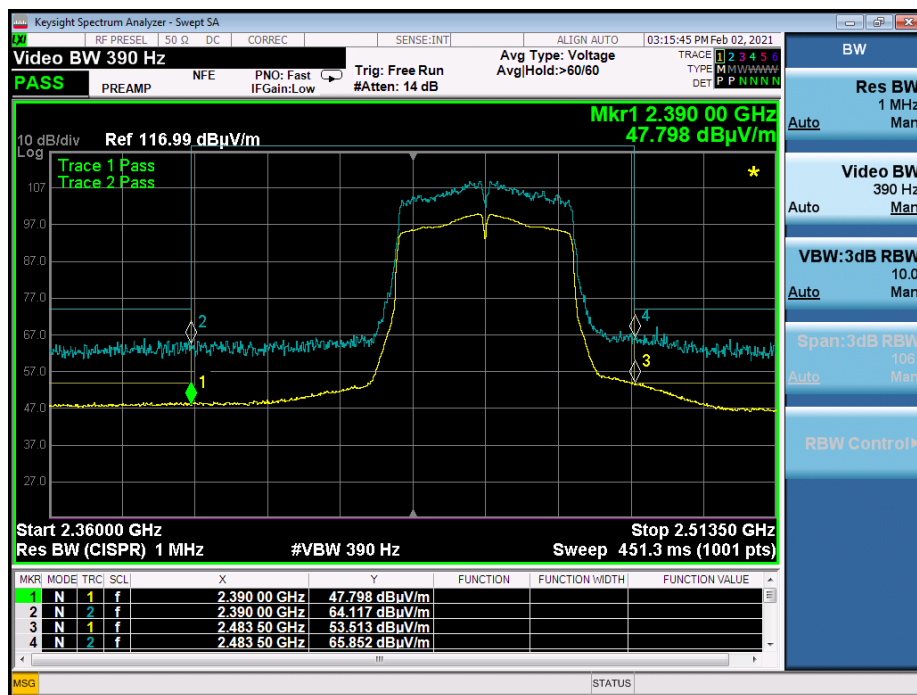
Graph 7: Radiated Lower Band Edge Plot n20 mode



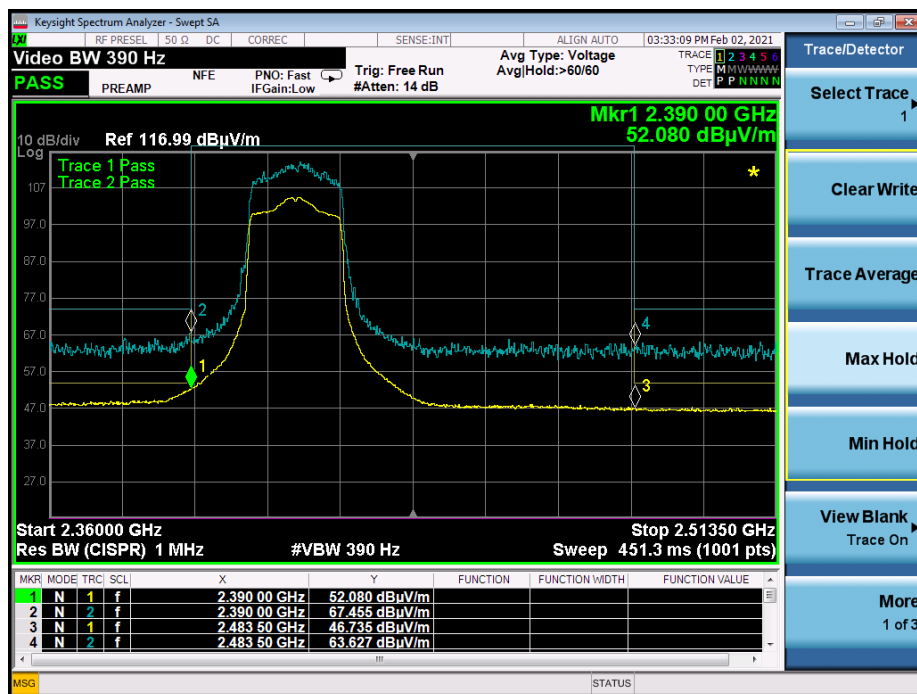
Graph 8: Radiated Upper Band Edge Plot n 20 mode



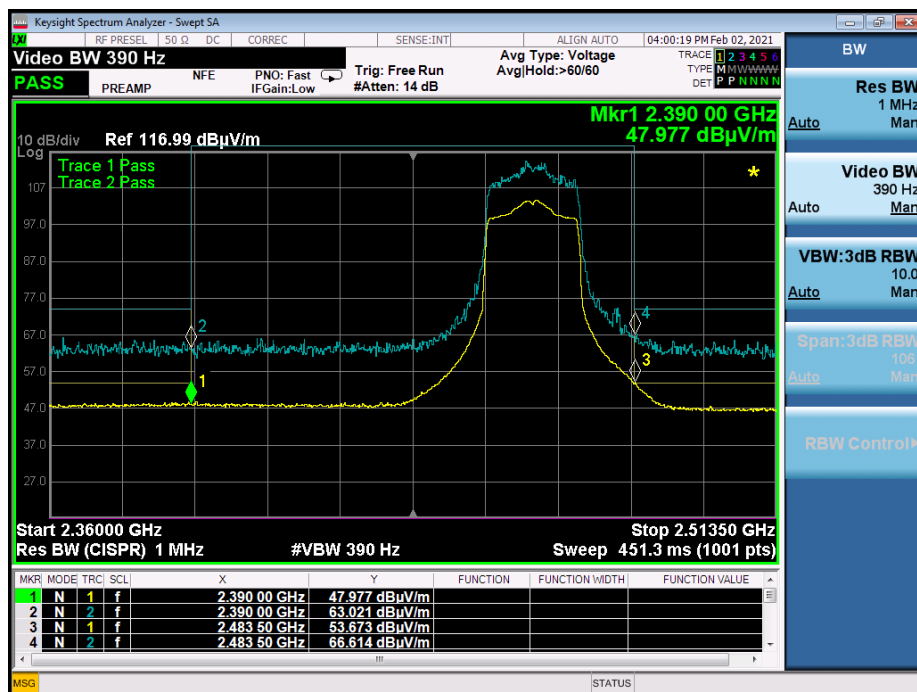
Graph 9: Radiated Lower Band Edge Plot n 40 mode



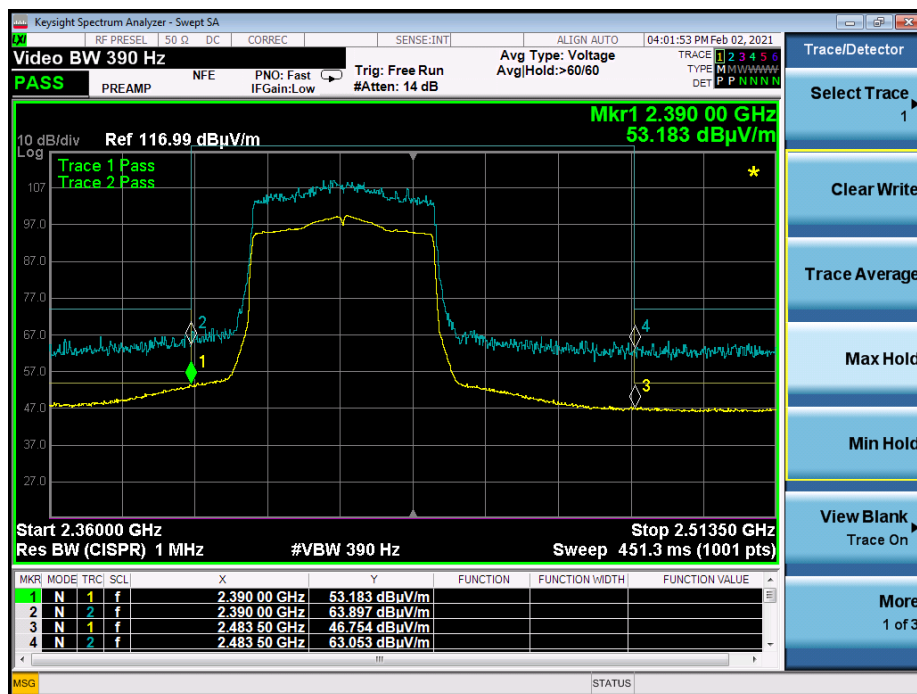
Graph 10: Radiated Upper Band Edge Plot n 40 mode



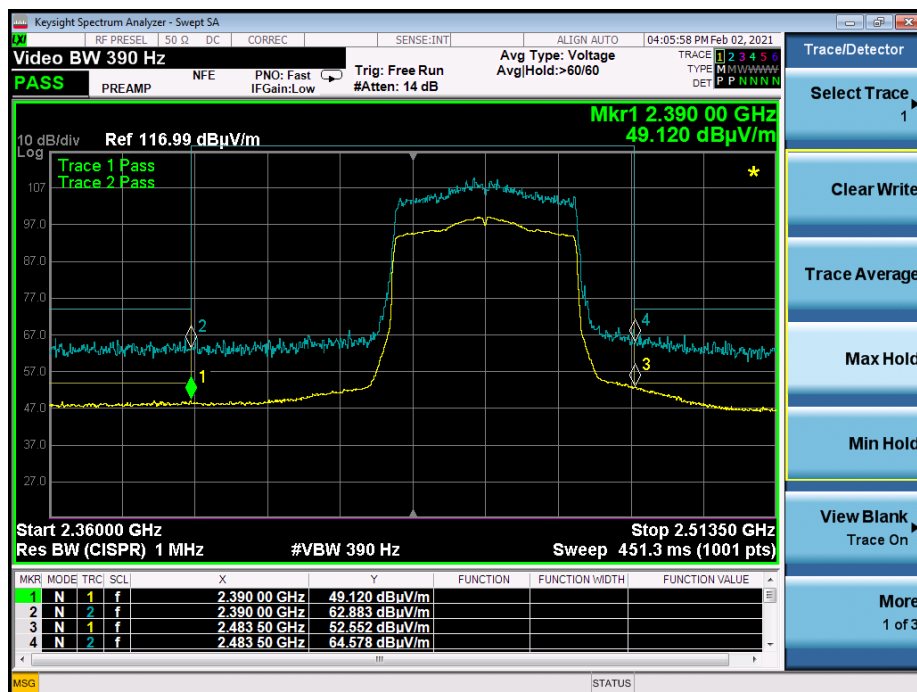
Graph 11: Radiated Lower Band Edge Plot ax 20 mode



Graph 12: Radiated Upper Band Edge Plot ax 20 mode



Graph 13: Radiated Lower Band Edge Plot ax 40 mode



Graph 14: Radiated Upper Band Edge Plot ax 40 mode

5.6 §15.247(e) Maximum Average Power Spectral Density

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. Results of this testing are summarized.

Mode	Frequency (MHz)	Power Setting	Measured PSD (dBm)
B	2412	19.5	-11.1
	2417	20	-10.1
	2437	21.5	-8.9
	2457	21.5	-8.7
	2462	19	-10.7
G	2412	15.5	-13.7
	2417	18	-11.3
	2437	20.5	-9.3
	2457	17.5	-12
	2462	16.5	-13.5
N20	2412	15.5	-16.5
	2417	18.5	-13.8
	2437	20.5	-11.5
	2457	18	-14
	2462	15.5	-16.4
N40	2422	12	-21.7
	2437	14	-20
	2452	12.5	-21.9
AX20	2412	14.5	-19.9
	2417	17	-17.3
	2437	20.5	-14
	2457	17.5	-16.9
	2462	14	-20
AX40	2422	12	-24.2
	2437	14	-22.7
	2452	12	-24.6

Result

The maximum average power spectral density was less than the limit of 8 dBm; therefore, the EUT complies with the specification.

-- End of Test Report --