



427 West 12800 South
Draper, UT 84020

Test Report Certification

FCC ID	SWX-WAVEAP
IC ID	6545A-WAVEAP
Equipment Under Test	Wave-AP
Test Report Serial Number	TR5929_01
Date of Test(s)	16-18 February 2021; 04 March 2021
Report Issue Date	22 nd March 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

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 C. 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	airFiber
Model Number	Wave-AP
FCC ID	SWX-WAVEAP
IC ID	6545A-WAVEAP

On this 22nd day of March 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: Noah Vickers



Reviewed By: Alex Macon

Revision History		
Revision	Description	Date
01	Original Report Release	22 nd March 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	airFiber
Model Number	Wave-AP
Serial Number	FCECDAFF9C57
Dimensions (cm)	21.0 x 20.5 x 17.0

2.2 Description of EUT

The Wave-AP is a fixed point-to-point or point to multiple point transceiver, intended for outdoor use, operating in the 57 GHz to 71 GHz range. A Bluetooth LE transceiver is included for device management. An Ethernet port is used for transfer and to provide power using an Ubiquiti UPOE-at Power Supply.

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: airFiber MN: Wave-AP (Note 1) SN: FCECDAFF9C57	Wireless Access Point	See Section 2.4
BN: Ubiquiti Inc. MN: U-POE-at SN: N/A	PoE Injector Power Supply	Shielded or Un-shielded Cat 5e cable (Note 2)
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Shielded or 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
Ethernet/PoE	1	Shielded or Un-shielded Cat 5e cable

2.5 Operating Environment

Power Supply	120 VAC
AC Mains Frequency	60 Hz
Temperature	22.4 – 23.3 °C
Humidity	17.81 – 24.36 %
Barometric Pressure	1017 mBar

2.6 Operating Modes

The Wave-AP 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 Bluetooth transceiver.

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

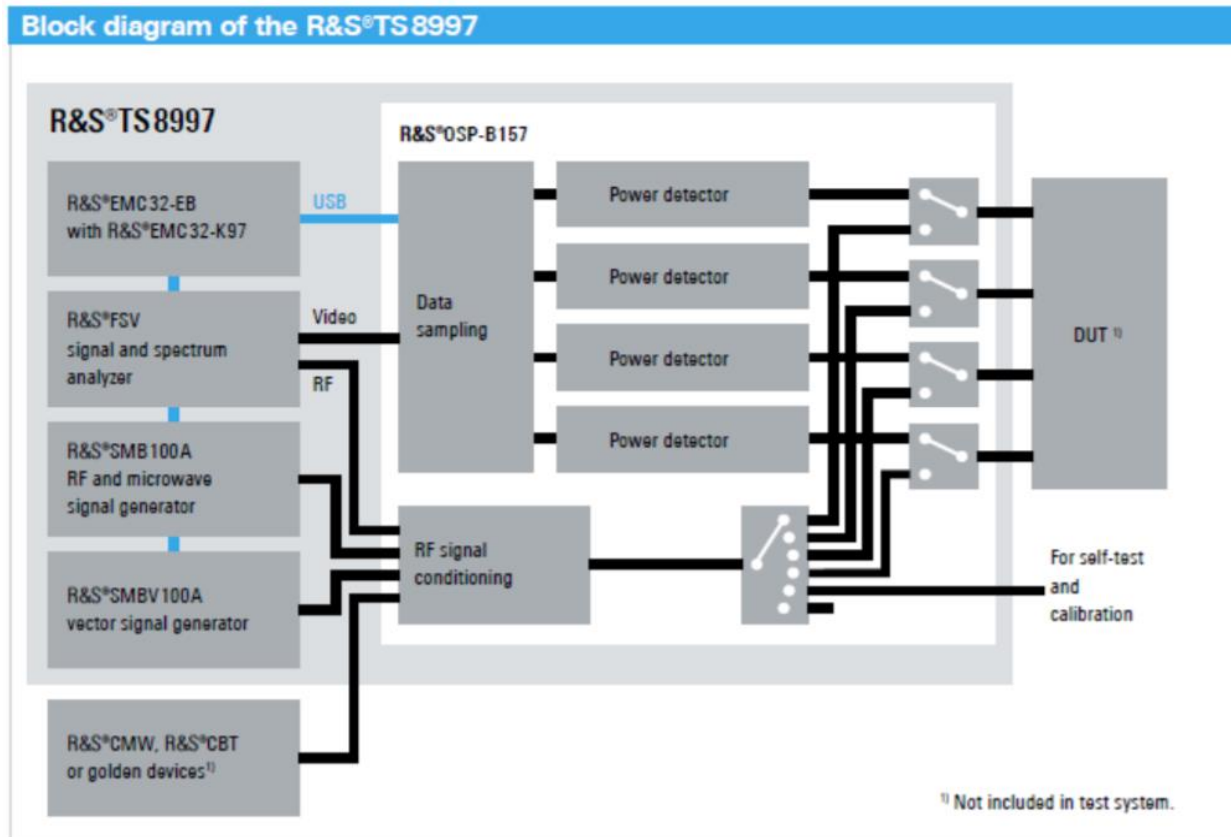


Diagram 1: Test Configuration Block Diagram

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

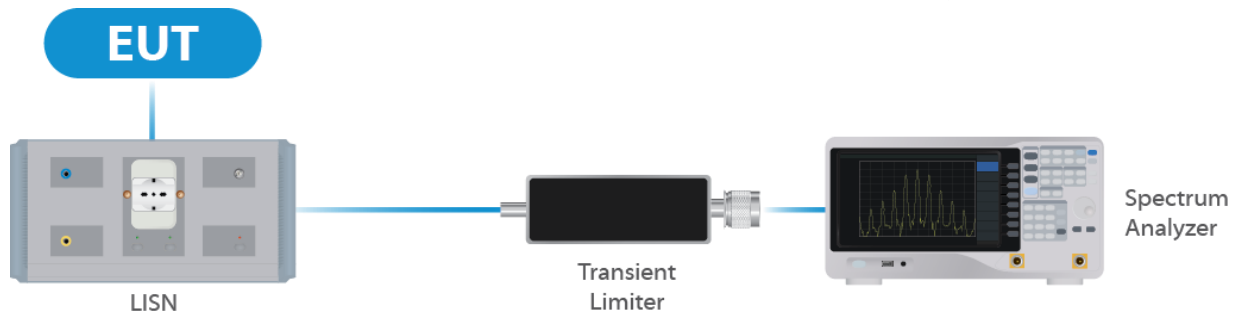


Figure 1: Conducted Emissions Test

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

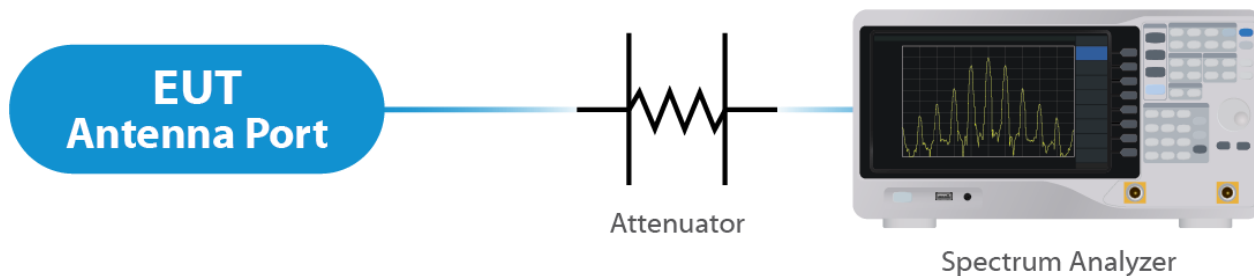


Figure 2: Direct Connect at the Antenna Port Test

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

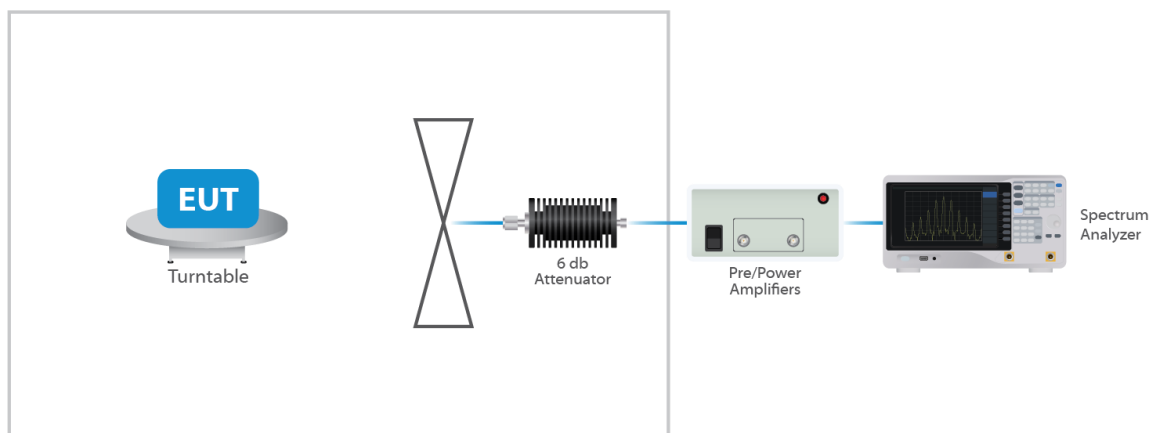


Figure 3: Radiated Emissions Test

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

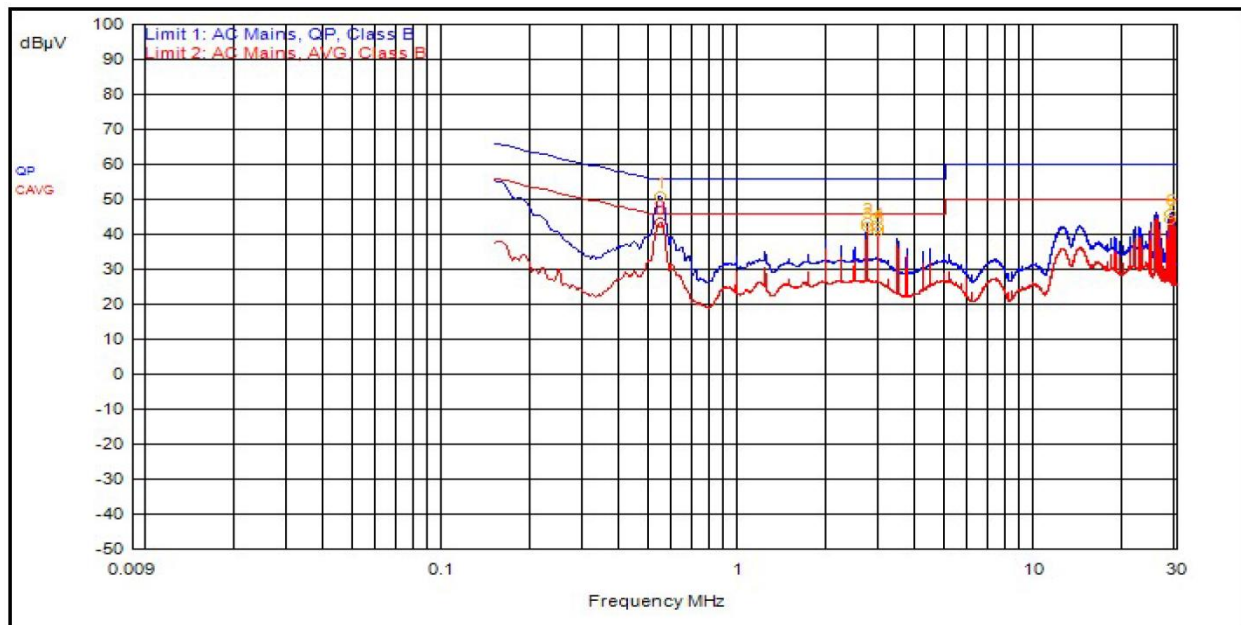
5.1 §15.203 Antenna Requirements

The EUT uses an integral antenna. The Maximum gain of the antenna is 2.0 dBi. The antenna is not user replaceable.

Results

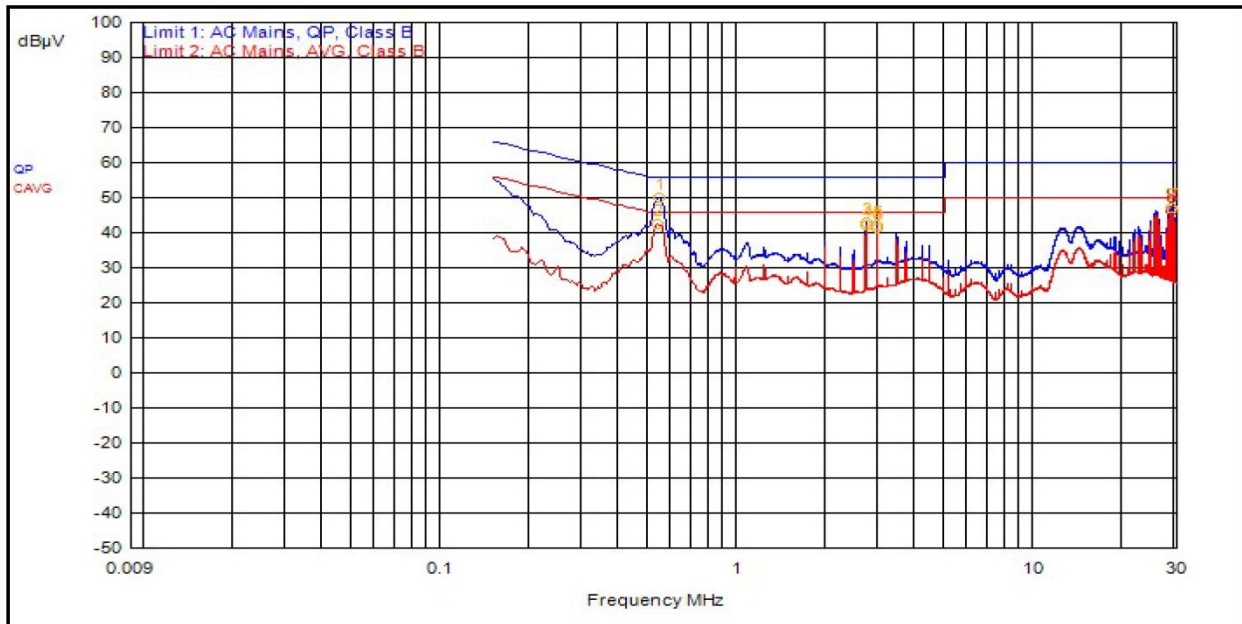
The EUT complied with the specification

5.2 Conducted Emissions at Mains Ports Data



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
8	540.000kHz	12.4	0.0		C_AVG	30.8	43.2	46.0	-2.8
3	2.691MHz	12.3	0.1		C_AVG	29.8	42.2	46.0	-3.8
5	2.934MHz	12.3	0.1		C_AVG	28.4	40.8	46.0	-5.2
1	540.000kHz	12.4	0.0		QPeak	38.3	50.7	56.0	-5.3
7	28.407MHz	12.9	0.2		C_AVG	30.9	44.0	50.0	-6.0
2	2.691MHz	12.3	0.1		QPeak	31.0	43.4	56.0	-12.6
4	2.934MHz	12.3	0.1		QPeak	29.8	42.2	56.0	-13.8
6	28.410MHz	12.9	0.2		QPeak	32.8	45.8	60.0	-14.2

Graph 1: Conducted Emissions Plot - Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit	Limit Dist.
2	531.000kHz	12.4	0.0		C_AVG	30.1	42.5	46.0	-3.5
4	2.688MHz	12.3	0.1		C_AVG	29.8	42.2	46.0	-3.8
8	28.827MHz	12.9	0.2		C_AVG	33.0	46.1	50.0	-3.9
6	2.934MHz	12.3	0.1		C_AVG	28.7	41.1	46.0	-4.9
1	540.000kHz	12.4	0.0		QPeak	37.5	49.9	56.0	-6.1
3	2.691MHz	12.3	0.1		QPeak	30.7	43.1	56.0	-12.9
7	28.827MHz	12.9	0.2		QPeak	34.0	47.1	60.0	-12.9
5	2.934MHz	12.3	0.1		QPeak	29.8	42.2	56.0	-13.8

Graph 2: Conducted Emissions Plot – Line

Result

The EUT complied with the specification limits

5.3 §15.247(a)(2) Emissions Bandwidth

Frequency (MHz)	Emissions 6 dB Bandwidth (MHz)	Emissions 99% Bandwidth (MHz)
2402	0.614	0.995
2442	0.673	1.000
2480	0.792	0.995

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 plots 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 7.2 dBm or 5.25 mW. The limit is 30 dBm or 1 Watt when using antennas with 6 dBi or less gain. The antenna has a gain of 2.0 dBi.

Frequency (MHz)	Measured Output Power (dBm)	Output Power (mW)
2402	5.3	3.39
2442	7.2	5.25
2480	6.7	4.68

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 plots 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 plots 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

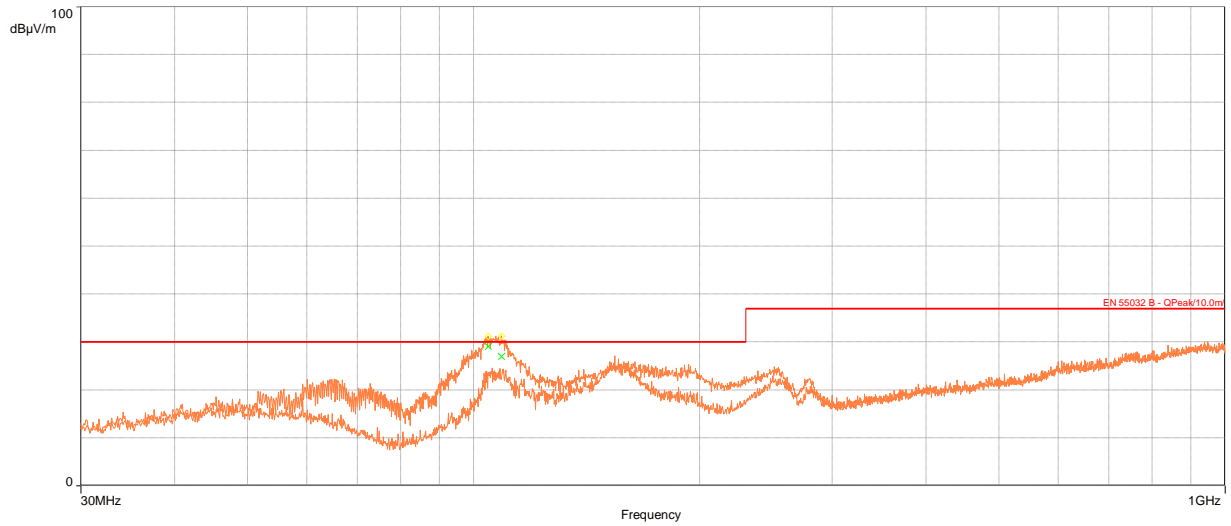
Conducted spurious emissions were attenuated 30 dB or more below the fundamental; therefore, the EUT complies with the specification.

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 bans 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.

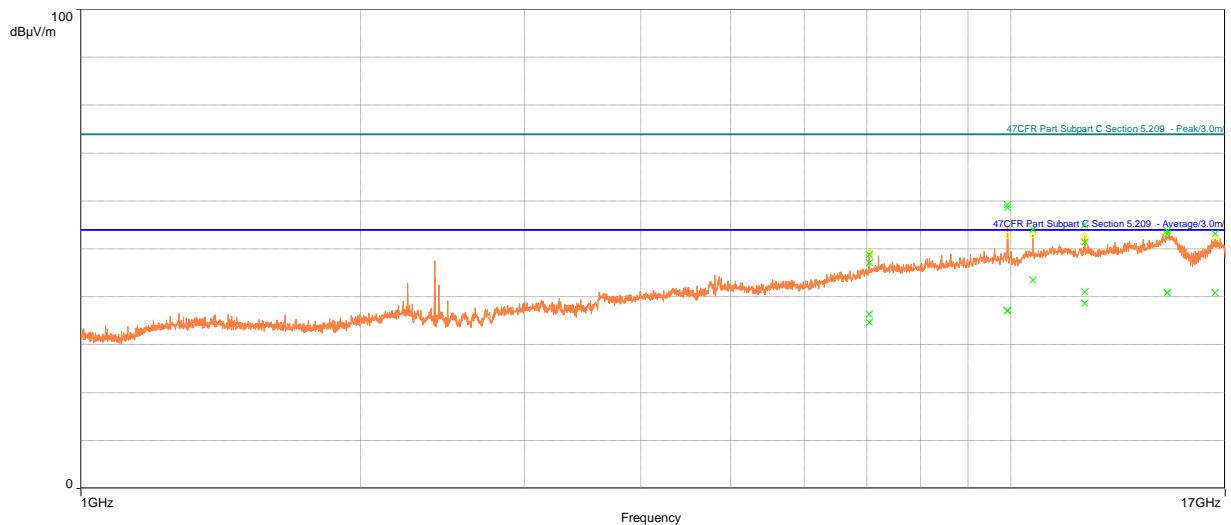
Result

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



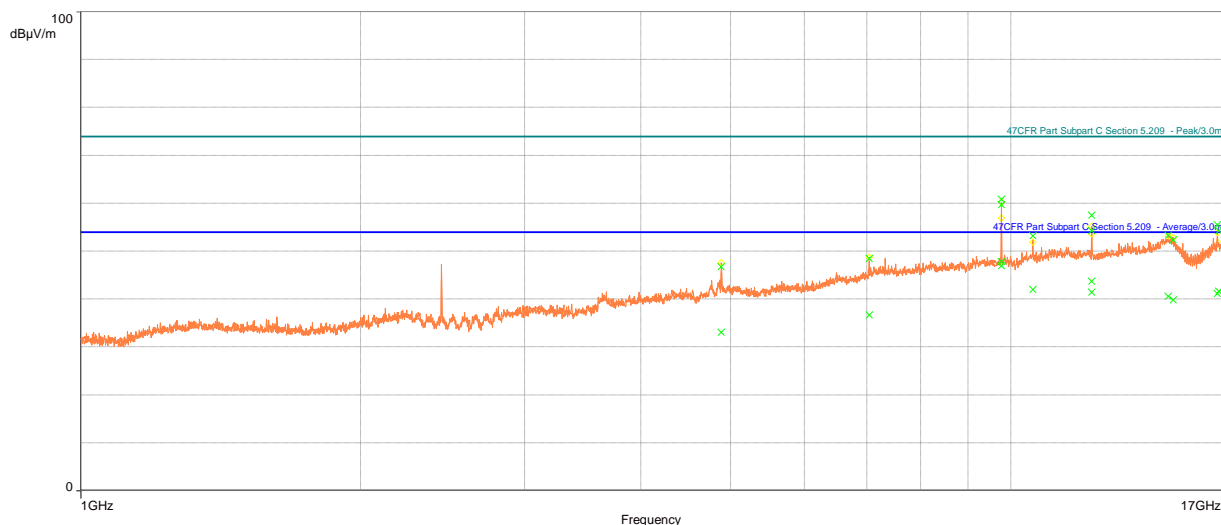
Frequency (MHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
104.58	QP	29.08	30.00	-0.92	141.00	2.77	Vertical	-13.80
108.84	QP	27.04	30.00	-2.96	123.00	1.87	Vertical	-14.15

Table 4: 30 – 1000 MHz (worst case)



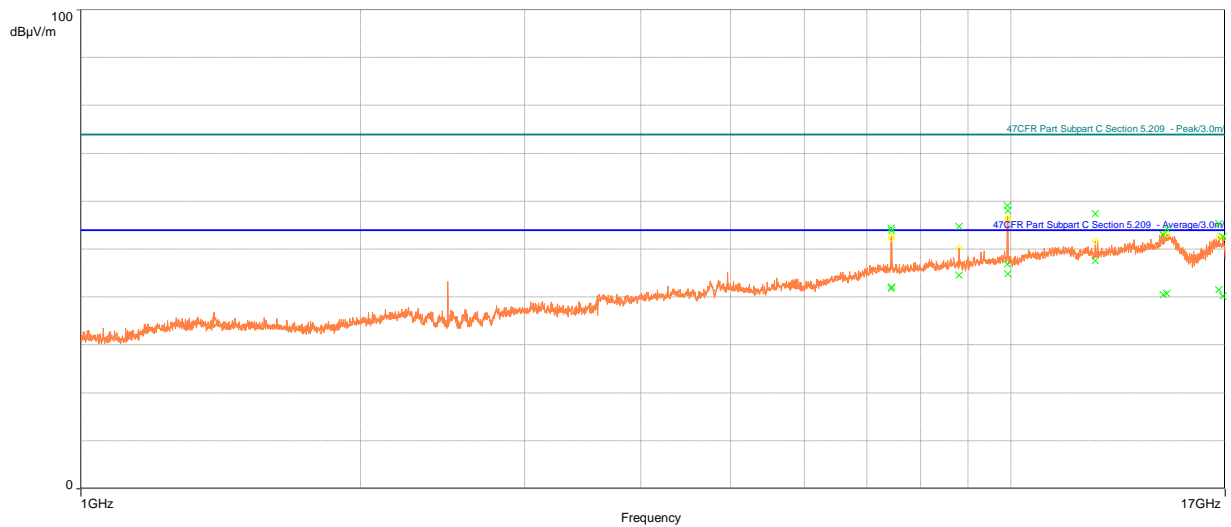
Frequency (MHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
7039.9	A	34.73	54.00	-19.27	128.00	2.01	Vertical	8.72
9918.8	A	37.19	54.00	-16.81	288.00	1.99	Vertical	11.75
12010	A	38.66	54.00	-15.34	357.00	2.24	Vertical	14.79
14737	A	40.84	54.00	-13.16	31.00	3.35	Vertical	18.32
16592	A	40.86	54.00	-13.14	342.00	2.13	Vertical	18.74
7039.9	A	36.39	54.00	-17.61	56.00	3.82	Horizontal	8.72
9918.7	A	37.12	54.00	-16.88	50.00	3.58	Horizontal	11.75
10560	A	43.59	54.00	-10.41	74.00	3.46	Horizontal	14.03
12009	A	41.08	54.00	-12.92	54.00	3.45	Horizontal	14.79
14724	A	40.89	54.00	-13.11	127.00	2.74	Horizontal	18.35
7039.9	P	47.14	74.00	-26.86	128.00	2.01	Vertical	8.72
9918.8	P	59.23	74.00	-14.77	288.00	1.99	Vertical	11.75
12010	P	51.43	74.00	-22.57	357.00	2.24	Vertical	14.79
14737	P	53.83	74.00	-20.17	31.00	3.35	Vertical	18.32
16592	P	53.29	74.00	-20.71	342.00	2.13	Vertical	18.74
7039.9	P	48.89	74.00	-25.11	56.00	3.82	Horizontal	8.72
9918.7	P	58.69	74.00	-15.31	50.00	3.58	Horizontal	11.75
10560	P	54.12	74.00	-19.88	74.00	3.46	Horizontal	14.03
12009	P	55.10	74.00	-18.90	54.00	3.45	Horizontal	14.79
14724	P	53.15	74.00	-20.85	127.00	2.74	Horizontal	18.35

Table 5: Transmitting at the Lowest Frequency



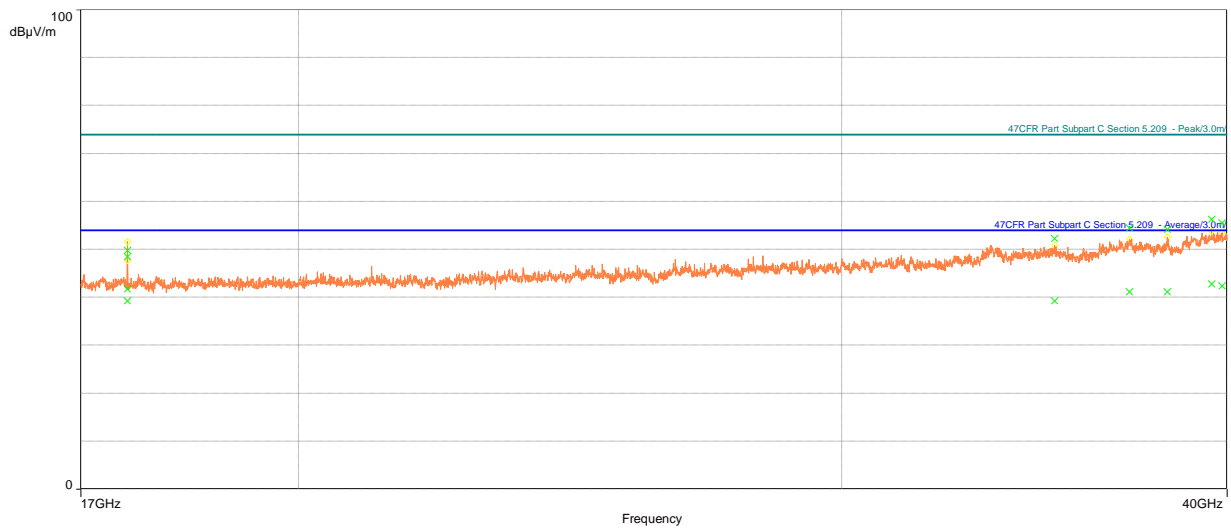
Frequency (MHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
9768.9	A	47.85	54.00	-6.15	255.00	1.89	Vertical	11.70
12211	A	43.77	54.00	-10.23	356.00	1.99	Vertical	15.04
14946	A	39.79	54.00	-14.21	24.00	2.98	Vertical	17.84
16732	A	41.67	54.00	-12.33	337.00	2.85	Vertical	19.72
4883.3	A	33.12	54.00	-20.88	113.00	3.93	Horizontal	2.72
7040.1	A	36.71	54.00	-17.29	261.00	3.82	Horizontal	8.72
9766.7	A	46.96	54.00	-7.04	42.00	3.93	Horizontal	11.70
10560	A	42.04	54.00	-11.96	295.00	3.70	Horizontal	14.03
12209	A	41.42	54.00	-12.58	44.00	3.46	Horizontal	15.03
14760	A	40.62	54.00	-13.38	233.00	3.70	Horizontal	18.22
16672	A	41.16	54.00	-12.84	327.00	1.50	Horizontal	19.56
9768.9	P	60.88	74.00	-13.12	255.00	1.89	Vertical	11.70
12211	P	57.50	74.00	-16.50	356.00	1.99	Vertical	15.04
14946	P	52.43	74.00	-21.57	24.00	2.98	Vertical	17.84
16732	P	54.28	74.00	-19.72	337.00	2.85	Vertical	19.72
4883.3	P	46.77	74.00	-27.23	113.00	3.93	Horizontal	2.72
7040.1	P	48.46	74.00	-25.54	261.00	3.82	Horizontal	8.72
9766.7	P	59.67	74.00	-14.33	42.00	3.93	Horizontal	11.70
10560	P	53.20	74.00	-20.80	295.00	3.70	Horizontal	14.03
12209	P	54.28	74.00	-19.72	44.00	3.46	Horizontal	15.03
14760	P	53.33	74.00	-20.67	233.00	3.70	Horizontal	18.22
16672	P	55.51	74.00	-18.49	327.00	1.50	Horizontal	19.56

Table 6: Transmitting at the Middle Frequency



Frequency (MHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarization	Correction (dB)
7439.1	A	41.81	54.00	-12.19	356.00	3.45	Vertical	9.80
8800	A	44.55	54.00	-9.45	5.00	3.34	Vertical	12.12
9918.9	A	46.86	54.00	-7.14	30.00	2.13	Vertical	11.75
14587	A	40.53	54.00	-13.47	135.00	2.24	Vertical	18.20
16902	A	40.19	54.00	-13.81	335.00	2.36	Vertical	20.55
7439.3	A	42.14	54.00	-11.86	104.00	3.70	Horizontal	9.80
9921	A	44.90	54.00	-9.10	61.00	2.85	Horizontal	11.75
12320	A	47.62	54.00	-6.38	243.00	2.37	Horizontal	14.86
14717	A	40.75	54.00	-13.25	158.00	2.24	Horizontal	18.34
16730	A	41.52	54.00	-12.48	14.00	3.10	Horizontal	19.71
7439.1	P	54.38	74.00	-19.62	356.00	3.45	Vertical	9.80
8800	P	54.76	74.00	-19.24	5.00	3.34	Vertical	12.12
9918.9	P	59.18	74.00	-14.82	30.00	2.13	Vertical	11.75
14587	P	53.01	74.00	-20.99	135.00	2.24	Vertical	18.20
16902	P	52.70	74.00	-21.30	335.00	2.36	Vertical	20.55
7439.3	P	53.88	74.00	-20.12	104.00	3.70	Horizontal	9.80
9921	P	58.06	74.00	-15.94	61.00	2.85	Horizontal	11.75
12320	P	57.42	74.00	-16.58	243.00	2.37	Horizontal	14.86
14717	P	54.25	74.00	-19.75	158.00	2.24	Horizontal	18.34
16730	P	55.37	74.00	-18.63	14.00	3.10	Horizontal	19.71

Table 7: Transmitting at the Highest Frequency



Frequency (MHz)	Det.	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17600	A	41.73	54.00	-12.27	1.00	Vertical	-6.17
35170	A	39.27	54.00	-14.73	123.00	Vertical	0.97
37188	A	41.16	54.00	-12.84	30.00	Vertical	1.28
38254	A	41.14	54.00	-12.86	134.00	Vertical	1.30
39846	A	42.36	54.00	-11.64	159.00	Vertical	3.55
17600	A	39.29	54.00	-14.71	9.00	Horizontal	-6.17
39545	A	42.82	54.00	-11.18	235.00	Horizontal	3.23
17600	P	49.84	74.00	-24.16	1.00	Vertical	-6.17
35170	P	52.32	74.00	-21.68	123.00	Vertical	0.97
37188	P	54.44	74.00	-19.56	30.00	Vertical	1.28
38254	P	54.22	74.00	-19.78	134.00	Vertical	1.30
39846	P	55.54	74.00	-18.46	159.00	Vertical	3.55
17600	P	48.49	74.00	-25.51	9.00	Horizontal	-6.17
39545	P	56.27	74.00	-17.73	235.00	Horizontal	3.23

Table 8: 17 – 40 GHz (worst case)

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.

Frequency (MHz)	Measurement (dBm)	Criteria (dBm)
2402	-2.9	8.0
2442	-1.2	8.0
2480	-1.7	8.0

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 --