

427 West 12800 South Draper, UT 84020

# Test Report Certification

FCC ID	SWX-WAVEAPG2	
IC ID	6545A-WAVEAPG2	
Equipment Under Test	Wave-AP-Gen2	
Test Report Serial Number	TR9924_01	
Date of Test(s)	11, 18 February; 28 March; 2 - 3 April 2025	
Report Issue Date	15 April 2025	

Test Specification	Applicant
47 CFR FCC Part 15, Subpart C	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 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 with the specifications provided by the manufacturer.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	Wave-AP-Gen2
FCC ID	SWX-WAVEAPG2
IC ID	6545A-WAVEAPG2

On this 15<sup>th</sup> day of April 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: Richard L. Winter



Revision History		
Revision Description Date		
01	Original Report Release	15 April 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	Wave-AP-Gen2	
Serial Number	2FD3CA	
Dimensions (cm)	15.8 x 28.7 x 10.0	

# 2.2 Description of EUT

The Wave-AP-Gen2 is a fixed point to multiple-point transceiver, intended for outdoor use, operating in the 57 GHz to 71 GHz range. The Wave-AP-Gen2 has a 5150 GHz to 5850 GHz transceiver operating in the UNII-1, UNII-2 and UNII-3 bands. A Bluetooth LE transceiver is included for set-up and 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-Gen2 (Note 1) SN: 2FD3CA	Wireless Access Point	See Section 2.4
BN: Ubiquiti MN: U-POE-at SN: N/A	PoE Power Adapter	Shielded or Un-shielded cat 5e cable
BN: Dell MN: XPS 13 SN: N/A	Laptop Computer	Shielded or Un-shielded cat 5e cable

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
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AC (PoE Injector)	1	3 conductor power cord/80cm
LAN (PoE Injector)	1	Shielded or Un-shielded cat 5e cable/1 meter
Data	1	Shielded or Un-shielded cat 5e cable/1 meter

## 2.5 Operating Environment

Power Supply	120 Volts AC Mains to 48 Volts PoE
AC Mains Frequency	60 Hz
Temperature	21.7 - 23.8 °C
Humidity	23.3 - 26.9 %
Barometric Pressure	1014 mBar

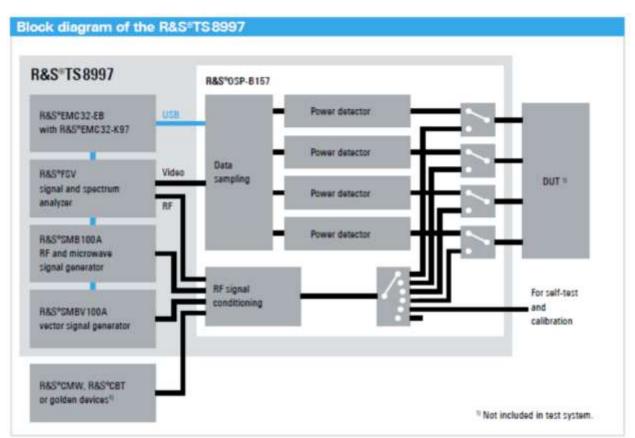
# 2.6 Operating Modes

The Wave-AP-Gen2 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 40000	N/A					
15.247(d)	RSS-247 § 5.4	Radiated Spurious Emissions	0.009 to 40000	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. Where applicable, KDB 662911 was followed to sum required measurements.								

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# 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 2025. 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 30 June 2025.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

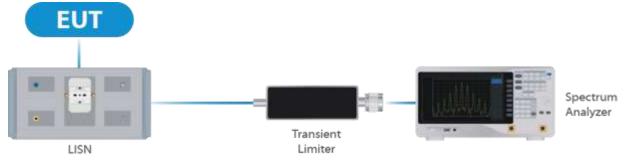


# 4 Test Equipment

# 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	8/27/2024	8/27/2025
LISN	AFJ	LS16C/10	UCL-2512	7/08/2024	7/08/2025
ISN	Teseq	ISN T800	UCL-2974	7/09/2024	7/09/2025
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



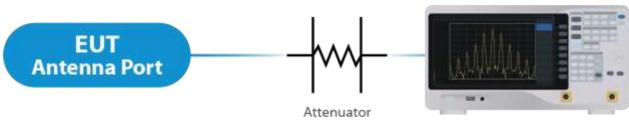
**Figure 1: Conducted Emissions Test** 

# 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	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	4/12/2024	4/19/2025
Switch Extension	R&S	OSP-150W	UCL-2870	4/12/2024	4/19/2025

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





Spectrum Analyzer

# 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	Scwarzbeck	VULB 9163	UCL-3062	2/22/2023	3/22/2025
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	3/10/2023	3/10/2025
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	7/2/2024	7/2/2025
Test Software	Nexio	BatEMC	UCL-5253 & UCL- 5249	N/A	N/A

Table 3: List of equipment used for Radiated Emissions

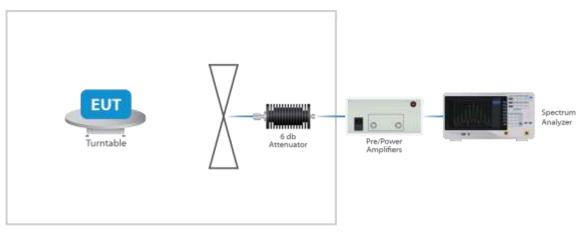


Figure 3: Radiated Emissions Test

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# 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 ( <u>+</u> 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

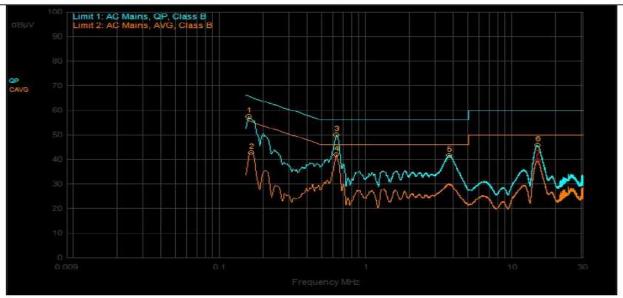
# 5.1 §15.203 Antenna Requirements

The EUT uses an integrated internal. As per the manufacturer, the Maximum gain of the antenna is 2 dBi. The antenna is not user replaceable.

### Results

The EUT complied with the specification



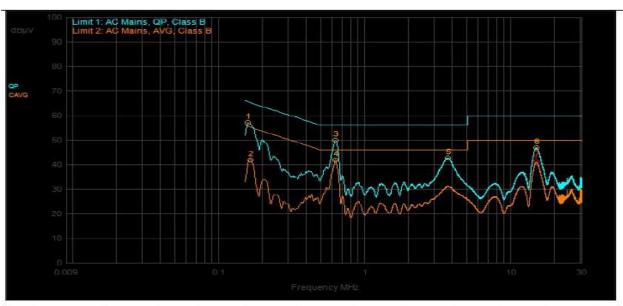


### 5.2 Conducted Emissions at Mains Ports Data

ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Туре	dBµV	dBµV	dBµV	dB	dBµV	dB	P/F
3	621,000kHz	12.37	0.00		QPeak	37.52	49.89	56.00	-6.11			
1	156,000kHz	12.38	0.00		QPeak	45.05	57.43	65.67	-8.24			
6	14.613	12.46	0.08		QPeak	33.27	45.81	60.00	-14.19			
5	3.660	11.92	0.00		QPeak	29.64	41.56	56.00	-14.44			
2	162,000kHz	12.38	0.00	0	C_AVG	30.51	42.89			55.36	-12.47	с с
4	621,000kHz	12.37	0.00		C_AVG	29.45	41.82			46.00	-4.18	
7	14.580	12.45	0.08	C.	C_AVG	26.89	39.42	S (S		50.00	-10.58	s 8

**Graph 1: Conducted Emissions Plot - Neutral** 





D	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	Туре	dBµV	dBµV	dBµV	dB	dBµV	dB	P/F
3	618,000kHz	12.37	0.00		QPeak	37.60	49.97	56.00	-6.03			÷
1	156,000kHz	12.40	0.00	8	QPeak	44.91	57.31	65.67	-8.36			8 3
6	14.589	12.50	0.08		QPeak	34.36	46.94	60.00	-13.06			<u> </u>
5	3.630	11.97	0.00	2	QPeak	30.82	42.79	56.00	-13.21			8 - 5
2	162,000kHz	12.39	0.00	2 2	C_AVG	29.57	41.96			55.36	-13.40	
4	618,000kHz	12.37	0.00	5	C_AVG	29.57	41.94			46.00	-4.06	
7	14.643	12.50	0.08	9	C_AVG	28.42	41.00	<u>.</u>	ş	50.00	-9.00	<del>i</del> t i

**Graph 2: Conducted Emissions Plot – Line 1** 

### Result

The EUT complied with the specification limit.

# 5.3 §15.247(a)(2) Emissions Bandwidth

Frequency (MHz)	Emissions 6 dB Bandwidth (MHz)	Emissions 99% Bandwidth (MHz)		
2402	0.67	1.00		
2442	0.67	0.99		
2480	0.67	0.99		

#### 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 7.35 dBm or 5.43 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 dBi.

Frequency (MHz)	Measured Output Power (dBm)	Output Power (mW)
2402	3.34	2.16
2442	5.43	3.49
2480	7.35	5.43

### 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

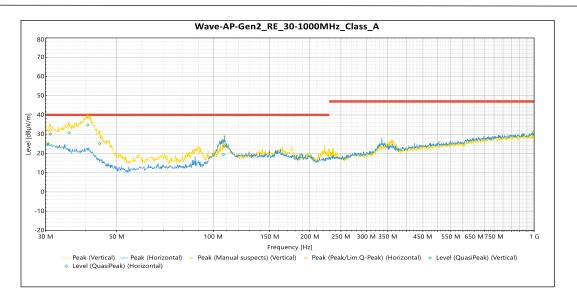
The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. The following tables show measurements of any emissions that fell into the restricted bands 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 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.

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.



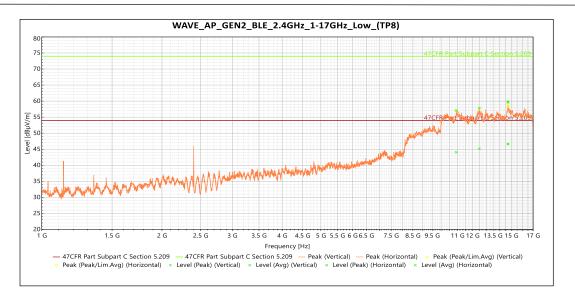


#### QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
31.05 MHz	30.01	40	-9.99	271	1.03	Vertical	-4.31
35.53 MHz	30.72	40	-9.28	212	1.03	Vertical	-6.93
40.65 MHz	34.80	40	-5.20	310	2.83	Vertical	-10.67
44.24 MHz	25.13	40	-14.87	222	3.86	Vertical	-13.26
107.51 MHz	19.35	40	-20.45	289	2.17	Vertical	-11.50
30.58 MHz	24.90	40	-15.10	134	3.17	Horizontal	-3.96
108.28 MHz	23.93	40	-16.08	328	4	Horizontal	-11.34
988.42 MHz	30.06	47	-16.94	319	4.01	Horizontal	0.70

Table 4: Radiated Emissions 30 - 1000 MHz





#### Peak

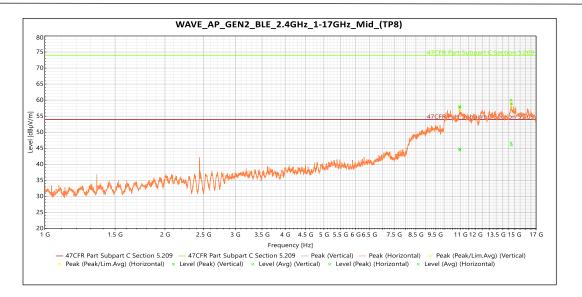
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.91 GHz	57.09	74.0	-16.91	66	3.798	Vertical	12.36
12.46 GHz	57.85	74.0	-16.15	209	1.5	Vertical	13.17
14.71 GHz	59.85	74.0	-14.15	26	4	Vertical	14.90
14.71 GHz	59.55	74.0	-14.45	303	1.5	Horizontal	14.81

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.91 GHz	44.05	54.0	-9.95	66	3.798	Vertical	12.36
12.46 GHz	45.12	54.0	-8.88	209	1.5	Vertical	13.17
14.71 GHz	46.58	54.0	-7.42	26	4	Vertical	14.90
14.71 GHz	46.64	54.0	-7.36	303	1.5	Horizontal	14.81

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





Peak

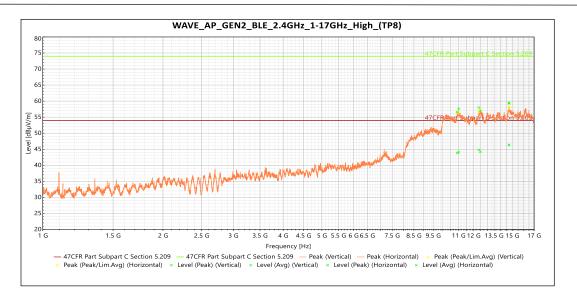
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.84 GHz	57.74	74.0	-16.26	4	3.311	Vertical	12.70
14.71 GHz	59.99	74.0	-14.01	105	1.5	Vertical	14.82
10.94 GHz	58.02	74.0	-15.98	126	1.5	Horizontal	12.71
14.75 GHz	58.84	74.0	-15.16	73	1.638	Horizontal	14.30

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.84 GHz	44.36	54.0	-9.64	4	3.311	Vertical	12.70
14.71 GHz	46.68	54.0	-7.32	105	1.5	Vertical	14.82
10.94 GHz	44.79	54.0	-9.21	126	1.5	Horizontal	12.71
14.75 GHz	45.94	54.0	-8.06	73	1.638	Horizontal	14.30

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





Peak
------

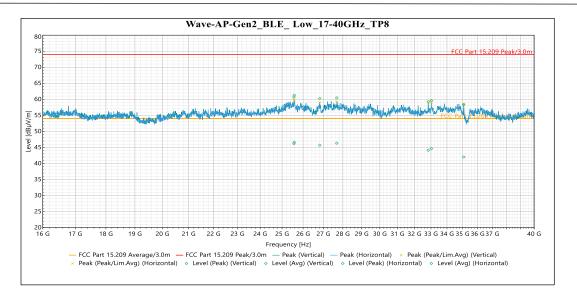
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.92 GHz	56.61	74.0	-17.39	173	2.325	Vertical	12.47
12.36 GHz	57.99	74.0	-16.01	262	1.643	Vertical	13.40
14.71 GHz	59.43	74.0	-14.57	187	1.638	Vertical	14.83
11.01 GHz	57.62	74.0	-16.38	227	3.311	Horizontal	12.39
12.47 GHz	56.93	74.0	-17.07	268	2.816	Horizontal	13.14
14.71 GHz	59.28	74.0	-14.72	202	3.802	Horizontal	14.86

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.92 GHz	43.82	54.0	-10.18	173	2.325	Vertical	12.47
12.36 GHz	44.82	54.0	-9.18	262	1.643	Vertical	13.40
14.71 GHz	46.34	54.0	-7.66	187	1.638	Vertical	14.83
11.01 GHz	44.07	54.0	-9.93	227	3.311	Horizontal	12.39
12.47 GHz	44.20	54.0	-9.80	268	2.816	Horizontal	13.14
14.71 GHz	46.34	54.0	-7.66	202	3.802	Horizontal	14.86

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)
25.57 GHz	61.27	74.0	-12.73	166	Vertical	10.09
32.83 GHz	59.26	74.0	-14.74	219	Vertical	8.15
35.08 GHz	58.35	74.0	-15.65	167	Vertical	9.01
25.56 GHz	60.70	74.0	-13.30	237	Horizontal	9.86
26.82 GHz	60.27	74.0	-13.73	23	Horizontal	8.77
27.69 GHz	60.44	74.0	-13.56	224	Horizontal	8.85
33.03 GHz	59.57	74.0	-14.43	95	Horizontal	9.14

#### Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
25.57 GHz	46.63	54.0	-7.37	166	Vertical	10.09
32.83 GHz	44.12	54.0	-9.88	219	Vertical	8.15
35.08 GHz	42.01	54.0	-11.99	167	Vertical	9.01
25.56 GHz	46.17	54.0	-7.83	237	Horizontal	9.86
26.82 GHz	45.68	54.0	-8.32	23	Horizontal	8.77
27.69 GHz	46.33	54.0	-7.67	224	Horizontal	8.85
33.03 GHz	44.62	54.0	-9.38	95	Horizontal	9.14

 Table 8: Radiated Emissions 17 – 40 GHz at the Lowest Frequency (worse 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	-3.26	8.0
2442	-1.18	8.0
2480	0.78	8.0

#### Result

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



427 West 12800 South, Draper, UT 84020

-- End of Test Report --