



427 West 12800 South  
Draper, UT 84020

## Test Report

### Declaration of Conformity

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>FCC ID</b>                    | SWX-UDR5GM                        |
| <b>ISED ID</b>                   | 6545A-UDR5GM                      |
| <b>Equipment Under Test</b>      | UDR-5G-Max                        |
| <b>Test Report Serial Number</b> | TR10638_03                        |
| <b>Date of Test(s)</b>           | 5 January through 13 January 2026 |
| <b>Report Issue Date</b>         | 13 January 2026                   |

| Test Specification                                | Applicant                                                         |
|---------------------------------------------------|-------------------------------------------------------------------|
| 47 CFR FCC Part 15 Subpart C<br>ICES-003, Issue 7 | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |



## Certification of Engineering Report

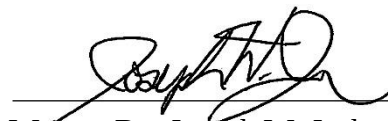
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart B. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested with the specifications provided by the manufacturer.

|                     |               |
|---------------------|---------------|
| <b>Applicant</b>    | Ubiquiti Inc. |
| <b>Manufacturer</b> | Ubiquiti Inc. |
| <b>Brand Name</b>   | UBIQUITI      |
| <b>Model Number</b> | UDR-5G-Max    |
| <b>FCC ID</b>       | SWX-UDR5GM    |
| <b>ISED ID</b>      | 6545A-UDR5GM  |

On this 13<sup>th</sup> day of January 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: Joseph W. Jackson  
Reviewed By: Clay Allred

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| <b>Revision History</b> |                                                               |                 |
|-------------------------|---------------------------------------------------------------|-----------------|
| <b>Revision</b>         | <b>Description</b>                                            | <b>Date</b>     |
| 01                      | Original Report Release                                       | 13 January 2026 |
| 02                      | Added FCC ID and ISED IC Information on Title Page and Page 2 | 14 January 2026 |
| 03                      | Removed Test Set up Photos in Section 5                       | 15 January 2026 |

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## 1 Client Information

### 1.1 Applicant

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Company</b>      | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| <b>Contact Name</b> | Alex Macon                                                        |
| <b>Title</b>        | Compliance                                                        |

### 1.2 Manufacturer

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Company</b>      | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| <b>Contact Name</b> | Alex Macon                                                        |
| <b>Title</b>        | Compliance                                                        |

### 1.3 Declaration of Conformity Responsible Party

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Company</b>      | Ubiquiti Inc.<br>685 Third Avenue<br>New York, NY 10017<br>U.S.A. |
| <b>Contact Name</b> | Alex Macon                                                        |
| <b>Title</b>        | Compliance                                                        |

## 2 Equipment Under Test (EUT)

### 2.1 Identification of EUT

|                        |                                    |
|------------------------|------------------------------------|
| <b>Brand Name</b>      | UBIQUITI                           |
| <b>Model Number</b>    | UDR-5G-Max                         |
| <b>Serial Number</b>   | FC3                                |
| <b>Dimensions (cm)</b> | 11.0      x    11.0      x    25.0 |

### 2.2 Description of EUT

The UDR-5G-Max is a WiFi 7 UniFi Desk Cloud Gateway with a broadband 5G network. The UDR-5G-Max has one 10 GbE SFP+ port and 4 RJ45 PoE ports. The UDR-5G-Max transmits in the 2.4 GHz, 5 GHz, and 6 GHz frequency bands using internal integral antennas. The UDR-5G-Max has a Bluetooth transmitter for system management. The UDR-5G-Max is powered by 54 VDC from a 100 - 240 Volts AC Mains power adapter.

### 2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

| <b>Brand Name<br/>Model Number<br/>Serial Number</b> | <b>Description</b> | <b>Name of Interface Ports /<br/>Interface Cables</b> |
|------------------------------------------------------|--------------------|-------------------------------------------------------|
| BN: UBIQUITI<br>MN: UDR-5G-Max (Note 1)<br>SN: FC3   | Desktop Gateway    | See Section 2.4                                       |
| BN: UBIQUITI<br>MN: ADS-60SH-54-354060E<br>SN: N/A   | Power Adapter      | See Section 2.4                                       |
| BN: Dell<br>MN: XPS 13<br>SN: N/A                    | Laptop Computer    | Ethernet/un-shielded Cat 5                            |

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

| <b>Name of Ports</b> | <b>No. of Ports Fitted to EUT</b> | <b>Cable Description/Length</b>                   |
|----------------------|-----------------------------------|---------------------------------------------------|
| 54 VDC Power Port    | 1                                 | 2 conductor power cable from power adapter/150 cm |
| 10 GbE SFP WAN       | 1                                 | Shielded cat 5E/7m                                |
| PoE Input            | 4                                 | Unshielded Cat 5E/7m                              |

## 2.5 Operating Environment

|                            |                              |
|----------------------------|------------------------------|
| <b>Power Supply</b>        | 120 Volts AC Mains to 54 VDC |
| <b>AC Mains Frequency</b>  | 60 Hz                        |
| <b>Temperature</b>         | 21.0 – 24.5 °C               |
| <b>Humidity</b>            | 21.3 - 31.8 %                |
| <b>Barometric Pressure</b> | 1017 mBar                    |

## 2.6 Operating Modes

The UDR-5G-Max was connected to a personal computer laptop and tested using test software in order to enable a constant duty cycle of the transmit modes of operation and pinging the IP address through a command prompt on the laptop to ensure constant operation is maintained. The UDR-5G-Max was tested in two configurations due to operational limitations (5GHz and 6GHz WiFi were not capable of simultaneous operation).

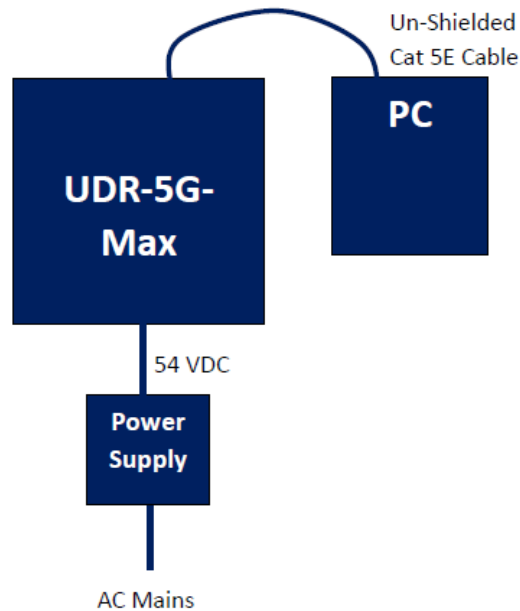
**Configuration 1:** BLE Transmitter on at max output, 2.4GHz WiFi on at max output, 5GHz WiFi on at max output and 5G WWAN on at max output.

**Configuration 2:** BLE Transmitter on at max output, 2.4GHz WiFi on at max output, 6GHz WiFi on at max output and 5G WWAN on at max output.

## 2.7 EUT Exercise Software

The EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode. (ART)

## 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

|                        |                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Title</b>           | 47 CFR FCC Part 15, Subpart C 15.209<br>Limits and methods of measurement of radio interference characteristics of radio frequency devices. |
| <b>Purpose of Test</b> | The tests were performed to demonstrate initial compliance                                                                                  |

### 3.2 Methods & Procedures

#### 3.2.1 47 CFR FCC Part 15 Section 15.209

See test standard for details.

### 3.3 Part 15, Subpart C

#### 3.3.1 Summary of Tests

| Standard Reference                                                                                                                          | Environmental Phenomena                     | Frequency Range (MHZ) | Result    |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------|-----------|
| 15.209 Enclosure                                                                                                                            | Radiated Emissions<br>(Vertical Polarity)   | 1000 to 40000         | Compliant |
| 15.209 Enclosure                                                                                                                            | Radiated Emissions<br>(Horizontal Polarity) | 1000 to 40000         | Compliant |
| Note: The line conducted, and radiated emissions testing were performed according to the procedures in ANSI C63.10-2013 and 47 CFR Part 15. |                                             |                       |           |

### 3.4 Test 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. Unified Compliance Laboratory carries FCC Accreditation Designation Number US5037. This site has also been registered with Innovations, Science and Economic Development 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 2026.

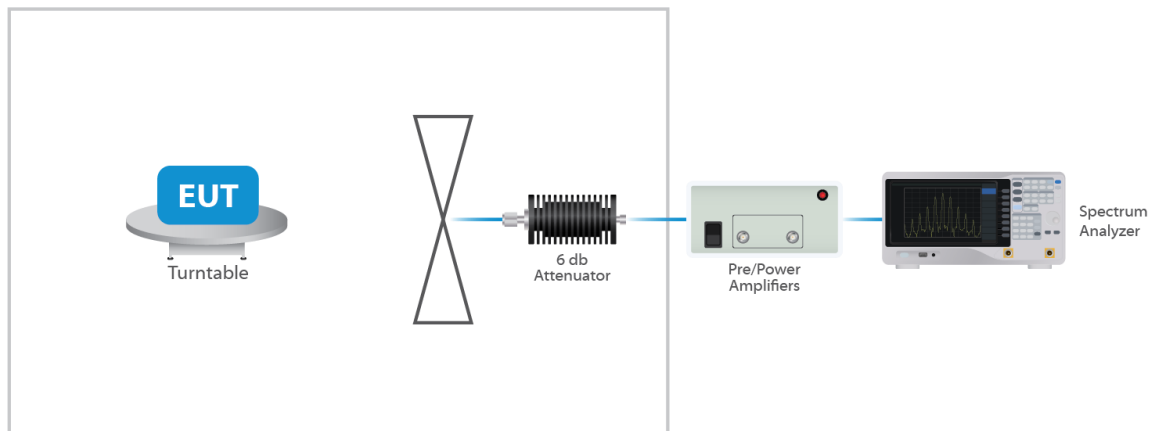
Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

## 4 Test Equipment

### 4.1 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<br>9 kHz – 1 GHz | Sonoma<br>Instruments | 310N            | UCL-2889                   | 1/19/2024                | 1/19/2026               |
| Broadband<br>Antenna           | Scwarzbeck            | VULB 9163       | UCL-3071                   | 6/25/2025                | 6/25/2027               |
| Double Ridge<br>Horn Antenna   | Scwarzbeck            | BBHA<br>9120D   | UCL-3065                   | 4/2/2025                 | 4/2/2027                |
| Pre-Amplifier 14 -<br>40 GHz   | Mini-Circuits         | ZVA-<br>18403G+ | UCL-7751                   | 7/22/2025                | 7/22/2026               |
| 10 - 40 GHz<br>Horn Antenna    | Scwarzbeck            | BBHA 9170       | UCL-2487                   | 4/2/2025                 | 4/2/2027                |
| 1 – 18 GHz<br>Amplifier        | Com-Power             | PAM 118A        | UCL-3833                   | 7/22/2025                | 7/22/2026               |
| Test Software                  | Nexio                 | BatEMC          | UCL-5253<br>& UCL-<br>5249 | N/A                      | N/A                     |

**Table 1: List of equipment used for Radiated Emissions Testing**



**Figure 1: Radiated Emissions Test Setup**

## 4.2 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.

## 4.3 Measurement Uncertainty

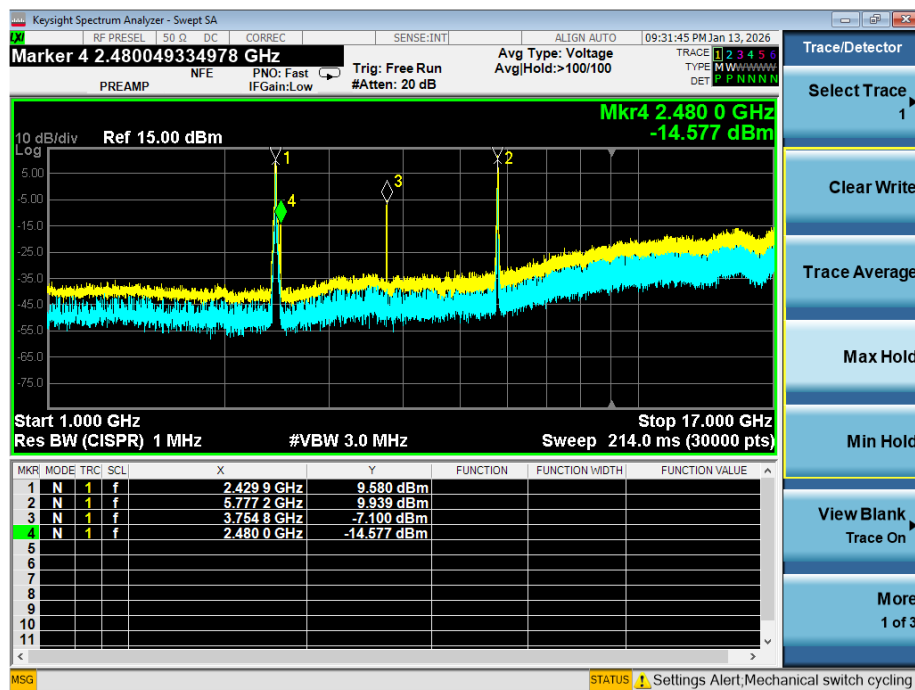
| Test                                  | Uncertainty ( $\pm$ dB) | Confidence (%) |
|---------------------------------------|-------------------------|----------------|
| Radiated Emissions (9 kHz to 30 MHz)  | 2.50                    | 95             |
| Radiated Emissions (30 MHz to 1 GHz)  | 4.38                    | 95             |
| Radiated Emissions (1 GHz to 18 GHz)  | 4.37                    | 95             |
| Radiated Emissions (18 GHz to 40 GHz) | 3.93                    | 95             |

## 5 Photographs

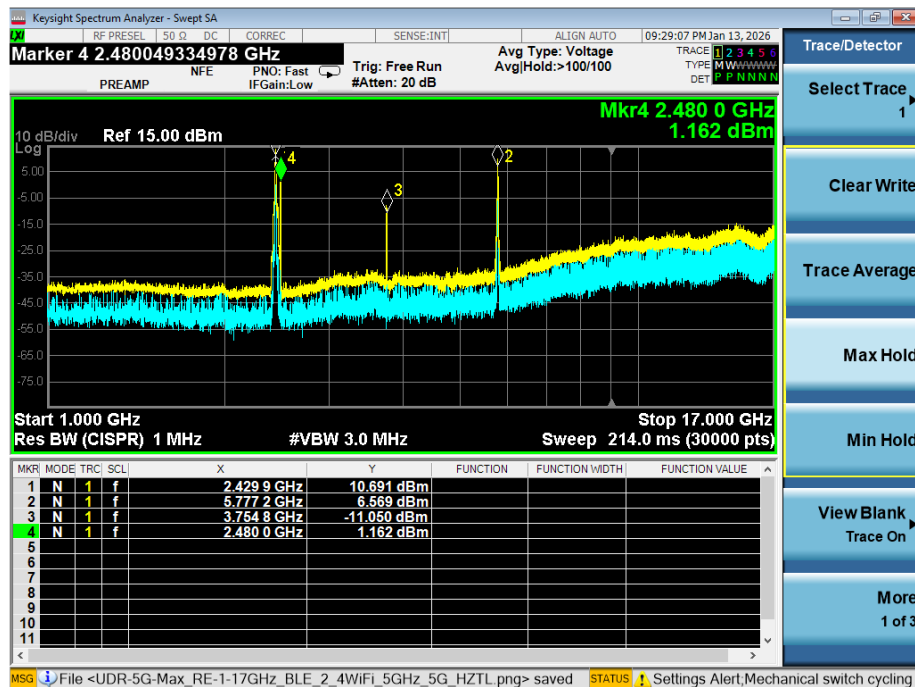
Test Set Up Photographs for this testing are shown in a separated TestSetupPhotos Document

## 6 Test Results

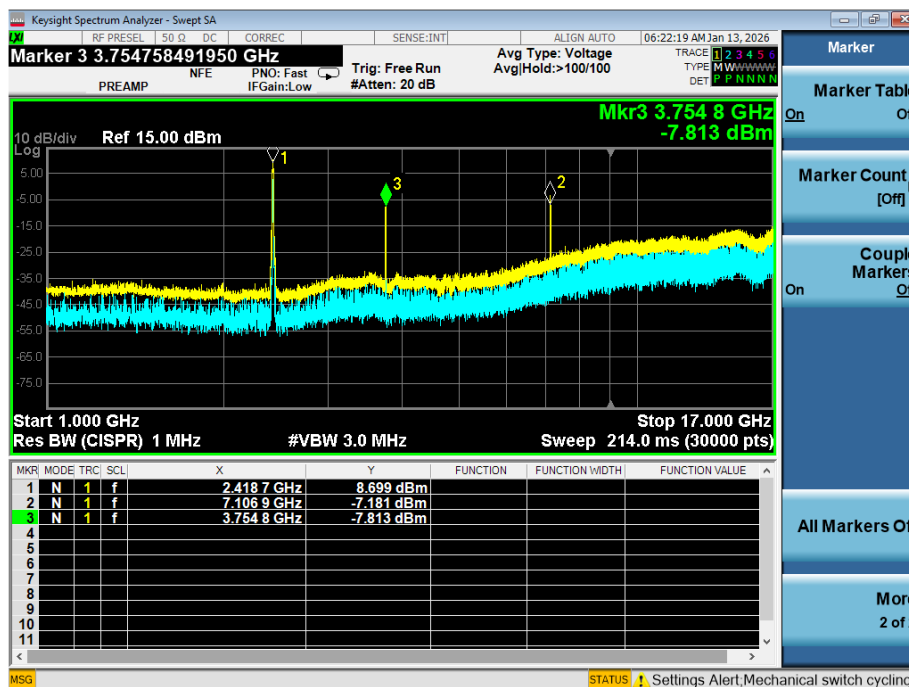
### 6.1 Radiated Emissions 1-17GHz



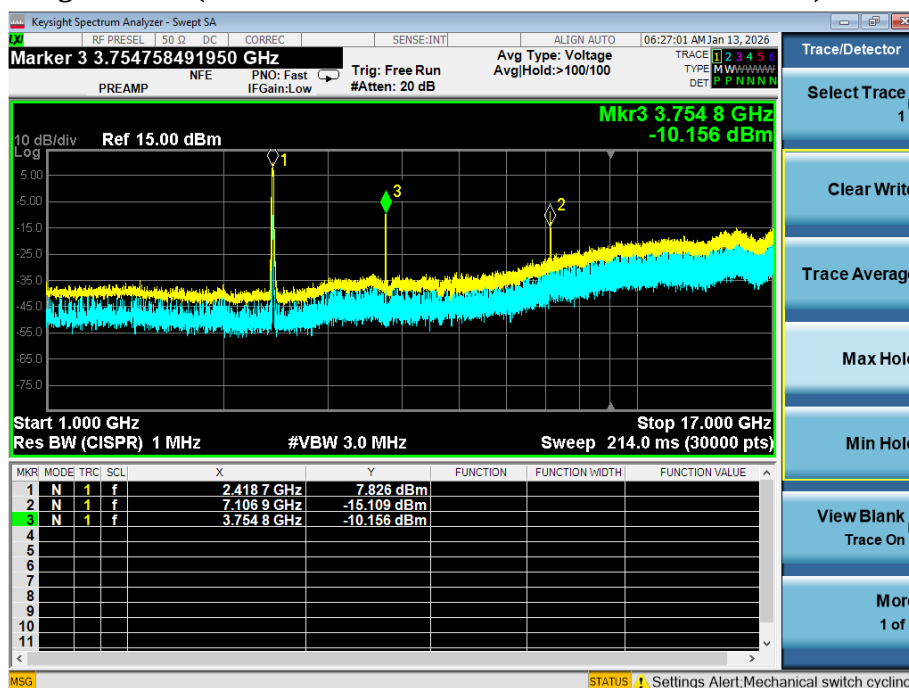
**Configuration 1 (BLE + 2.4GHz WiFi + 5GHz WiFi + 5G WWAN) Vertical:**



**Configuration 1 (BLE + 2.4GHz WiFi + 5GHz WiFi + 5G WWAN) Horizontal**



**Configuration 2 (BLE + 2.4GHz WiFi + 6GHz WiFi + 5G WWAN) Vertical:**

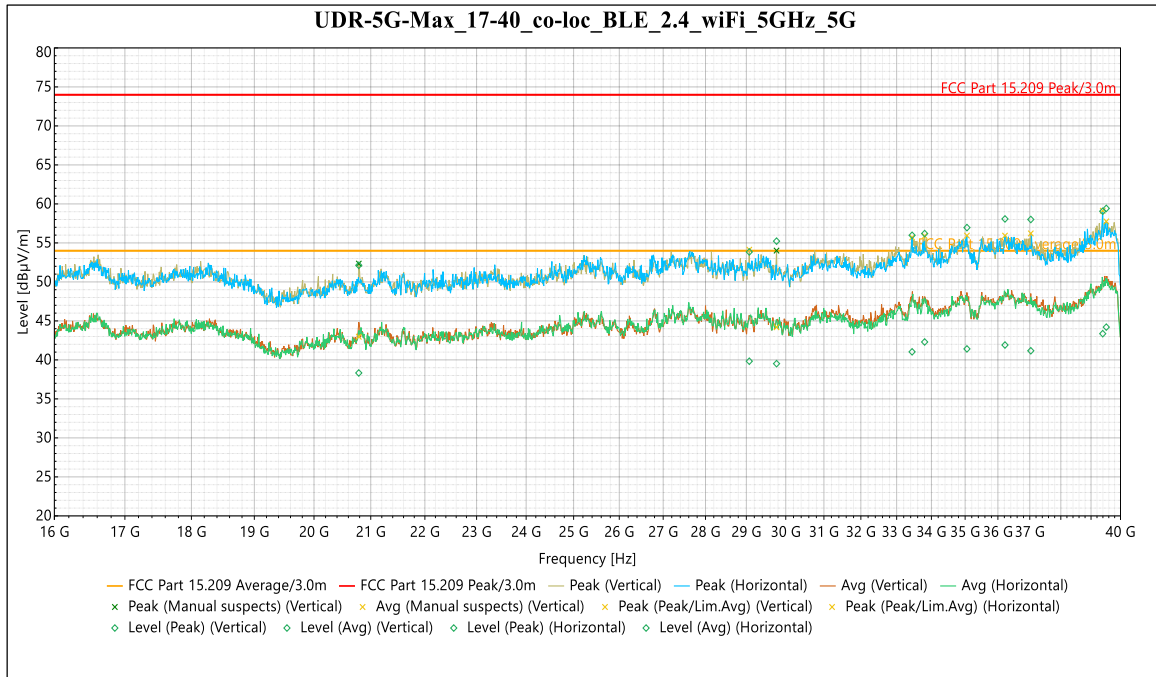


**Configuration 2 (BLE + 2.4GHz WiFi + 6GHz WiFi + 5G WWAN) Horizontal**

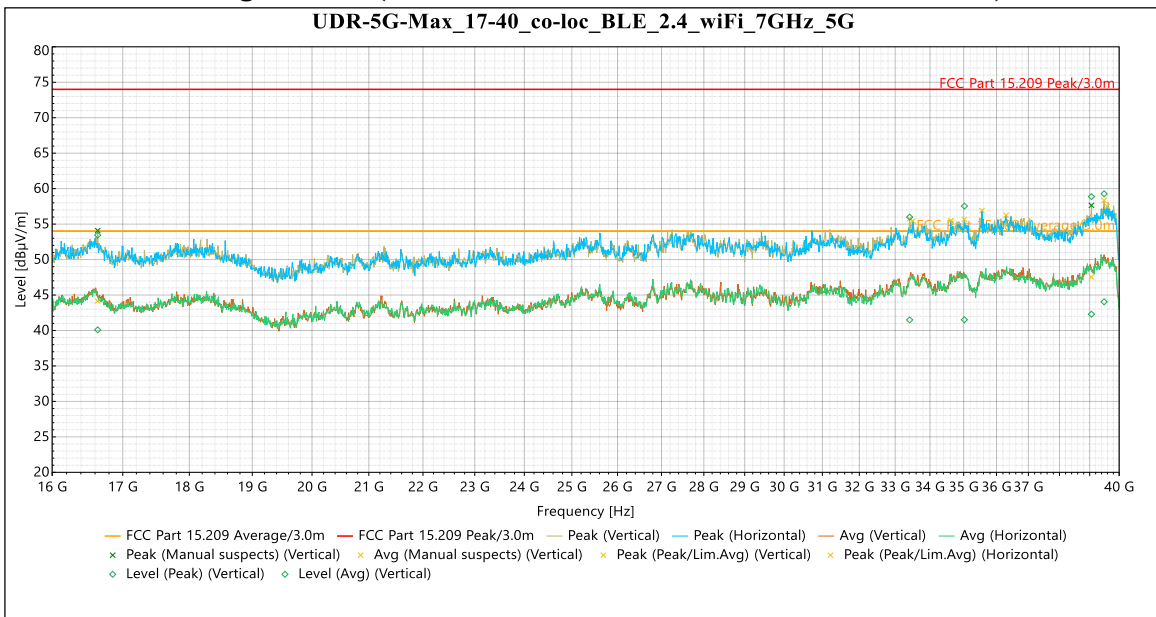
## Result

The presence of all transmitters running simultaneously causes no emissions in excess to those allowed by CFR 47 Part 15, section 15.209.

## 6.2 Radiated Emissions 17-40GHz



### Configuration 1 (BLE + 2.4GHz WiFi + 5GHz WiFi + 5G WWAN)



### Configuration 2 (BLE + 2.4GHz WiFi + 6GHz WiFi + 5G WWAN)

#### Result

The presence of all transmitters running simultaneously causes no emissions in excess to those allowed by CFR 47 Part 15, section 15.209.

**-- End of Test Report --**