

# RADIO TEST REPORT

## Test Report No. 15928229H-C-R1

|                     |                       |
|---------------------|-----------------------|
| Customer            | DENSO TEN Limited     |
| Description of EUT  | Car Audio             |
| Model Number of EUT | TN0047B               |
| FCC ID              | BABTN0047B            |
| Test Regulation     | FCC Part 15 Subpart E |
| Test Result         | Complied              |
| Issue Date          | November 17, 2025     |
| Remarks             | -                     |

**Representative Test Engineer**Tomoya Sone  
Engineer**Approved By**Ryota Yamanaka  
Engineer

CERTIFICATE 5107.02

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

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- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

## **REVISION HISTORY**

| Revision     | Test Report No. | Date              | Page Revised Contents                                                                                                                                                       |
|--------------|-----------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - (Original) | 15928229H-C     | November 4, 2025  | -                                                                                                                                                                           |
| 1            | 15928229H-C-R1  | November 17, 2025 | P.10<br>- Correction of Remarks for 11ac-20, 11ac-40 and 11ac-80 from Short GI to Long GI<br>- Correction of typo of sentence *2) in The Details of Operation Mode(s) table |
| 1            | 15928229H-C-R1  | November 17, 2025 | P.12 Deletion of No.1 Signal Cable in the List of Cables Used table                                                                                                         |

**Reference: Abbreviations (Including words undescribed in this report)**

|                |                                                                 |         |                                                     |
|----------------|-----------------------------------------------------------------|---------|-----------------------------------------------------|
| A2LA           | The American Association for Laboratory Accreditation           | IEC     | International Electrotechnical Commission           |
| AC             | Alternating Current                                             | IEEE    | Institute of Electrical and Electronics Engineers   |
| AFH            | Adaptive Frequency Hopping                                      | IF      | Intermediate Frequency                              |
| AM             | Amplitude Modulation                                            | ILAC    | International Laboratory Accreditation Conference   |
| Amp, AMP       | Amplifier                                                       | ISED    | Innovation, Science and Economic Development Canada |
| ANSI           | American National Standards Institute                           | ISO     | International Organization for Standardization      |
| Ant, ANT       | Antenna                                                         | JAB     | Japan Accreditation Board                           |
| AP             | Access Point                                                    | LAN     | Local Area Network                                  |
| ASK            | Amplitude Shift Keying                                          | LIMS    | Laboratory Information Management System            |
| Atten., ATT    | Attenuator                                                      | MCS     | Modulation and Coding Scheme                        |
| AV             | Average                                                         | MRA     | Mutual Recognition Arrangement                      |
| BPSK           | Binary Phase-Shift Keying                                       | N/A     | Not Applicable                                      |
| BR             | Bluetooth Basic Rate                                            | NIST    | National Institute of Standards and Technology      |
| BT             | Bluetooth                                                       | NS      | No signal detect.                                   |
| BT LE          | Bluetooth Low Energy                                            | NSA     | Normalized Site Attenuation                         |
| BW             | BandWidth                                                       | NVLAP   | National Voluntary Laboratory Accreditation Program |
| Cal Int        | Calibration Interval                                            | OBW     | Occupied Band Width                                 |
| CCK            | Complementary Code Keying                                       | OFDM    | Orthogonal Frequency Division Multiplexing          |
| Ch., CH        | Channel                                                         | OFDMA   | Orthogonal Frequency Division Multiple Access       |
| CISPR          | Comite International Special des Perturbations Radioelectriques | P/M     | Power meter                                         |
| CW             | Continuous Wave                                                 | PCB     | Printed Circuit Board                               |
| DBPSK          | Differential BPSK                                               | PER     | Packet Error Rate                                   |
| DC             | Direct Current                                                  | PHY     | Physical Layer                                      |
| D-factor       | Distance factor                                                 | PK      | Peak                                                |
| DFS            | Dynamic Frequency Selection                                     | PN      | Pseudo random Noise                                 |
| DQPSK          | Differential QPSK                                               | PP      | Preamble Puncturing                                 |
| DSSS           | Direct Sequence Spread Spectrum                                 | PRBS    | Pseudo-Random Bit Sequence                          |
| EDR            | Enhanced Data Rate                                              | PSD     | Power Spectral Density                              |
| EIRP, e.i.r.p. | Equivalent Isotropically Radiated Power                         | QAM     | Quadrature Amplitude Modulation                     |
| EMC            | ElectroMagnetic Compatibility                                   | QP      | Quasi-Peak                                          |
| EMI            | ElectroMagnetic Interference                                    | QPSK    | Quadri-Phase Shift Keying                           |
| EN             | European Norm                                                   | RBW     | Resolution Band Width                               |
| ERP, e.r.p.    | Effective Radiated Power                                        | RDS     | Radio Data System                                   |
| EU             | European Union                                                  | RE      | Radio Equipment                                     |
| EUT            | Equipment Under Test                                            | RF      | Radio Frequency                                     |
| Fac.           | Factor                                                          | RMS     | Root Mean Square                                    |
| FCC            | Federal Communications Commission                               | RSS     | Radio Standards Specifications                      |
| FHSS           | Frequency Hopping Spread Spectrum                               | Rx      | Receiving                                           |
| FM             | Frequency Modulation                                            | SA, S/A | Spectrum Analyzer                                   |
| Freq.          | Frequency                                                       | SG      | Signal Generator                                    |
| FSK            | Frequency Shift Keying                                          | SVSWR   | Site-Voltage Standing Wave Ratio                    |
| GFSK           | Gaussian Frequency-Shift Keying                                 | TR      | Test Receiver                                       |
| GNSS           | Global Navigation Satellite System                              | Tx      | Transmitting                                        |
| GPS            | Global Positioning System                                       | VBW     | Video BandWidth                                     |
| Hori.          | Horizontal                                                      | Vert.   | Vertical                                            |
| ICES           | Interference-Causing Equipment Standard                         | WLAN    | Wireless LAN                                        |

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## **SECTION 1: Customer Information**

|                  |                                                         |
|------------------|---------------------------------------------------------|
| Company Name     | DENSO TEN Limited                                       |
| Address          | 2-28, Goshō-dori 1-Chome, Hyogo-ku, KOBE 652-8510 JAPAN |
| Telephone Number | +81 78 682 2159                                         |
| Contact Person   | Kaoru Abe                                               |

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

## **SECTION 2: Equipment Under Test (EUT)**

### **2.1 Identification of EUT**

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Description   | Car Audio                                                                                 |
| Model Number  | TN0047B                                                                                   |
| Serial Number | Refer to SECTION 4.2                                                                      |
| Condition     | Production prototype<br>(Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification  | No Modification by the test lab                                                           |
| Receipt Date  | October 1, 2025                                                                           |
| Test Date     | October 1 to 5, 2025                                                                      |

### **2.2 Product Description**

#### **General Specification**

|                       |                         |
|-----------------------|-------------------------|
| Rating                | DC 12 V                 |
| Operating temperature | -20 deg. C to 65 deg. C |

#### **Radio Specification-1/2**

This report contains data provided by the customer which can impact the validity of results. UL Japan, Inc. is only responsible for the validity of results after the integration of the data provided by the customer. The data provided by the customer is marked "a)" in the table below.

#### **[WLAN (IEEE802.11b/11g/11n-20)]**

|                        |             |
|------------------------|-------------|
| Equipment Type         | Transceiver |
| Frequency of Operation | 2437 MHz    |
| Type of Modulation     | DSSS, OFDM  |
| Antenna Gain           | -0.19 dBi   |

#### **[Bluetooth (BR/EDR)]**

|                        |                                    |
|------------------------|------------------------------------|
| Equipment Type         | Transceiver                        |
| Frequency of Operation | 2402 MHz to 2480 MHz               |
| Type of Modulation     | FHSS (GFSK, $\pi/4$ DQPSK, 8 DPSK) |
| Antenna Gain           | 0.25 dBi                           |

## Radio Specification-2/2

### WLAN (IEEE802.11a/11n-20/11ac-20/11n-40/11ac-40/11ac-80)

|                            |             |          |
|----------------------------|-------------|----------|
| Equipment Type             | Transceiver |          |
| Frequency of Operation     | 20 MHz Band | 5765 MHz |
|                            | 40 MHz Band | 5755 MHz |
|                            | 80 MHz Band | 5775 MHz |
| Type of Modulation         | OFDM        |          |
| Antenna Gain <sup>a)</sup> | 1.65 dBi    |          |

### [AM/FM/DAB]

|                        |                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------|
| Equipment Type         | Receiver                                                                                                    |
| Frequency of Operation | AM: 530 kHz to 1625 kHz<br>FM: Band II: 87.5 MHz to 108.0 MHz<br>DAB (Band III): 174.928 MHz to 239.200 MHz |
| Type of Modulation     | AM<br>FM<br>DAB: OFDM                                                                                       |
| Antenna Connector Type | HFC IV                                                                                                      |
| Impedance              | AM, FM: 75 ohm<br>DAB: 50 ohm                                                                               |

## 2.3 Variant models

There are five types; A, B, C, D, E and H. Tests were performed to Type A (base model) as representative model.

Frequency of Operation for WLAN is as following table.

|                      | Type A<br>(EUT) | Type B | Type C     |            | Type D     |            | Type E     | Type H     |
|----------------------|-----------------|--------|------------|------------|------------|------------|------------|------------|
|                      | A-1             | B-1    | C-1<br>C-2 | C-3<br>C-4 | D-1<br>D-2 | D-3<br>D-4 | E-1<br>E-2 | H-1<br>H-2 |
| 5735 MHz to 5815 MHz | Y               | Y      | Y          | -          | Y          | -          | Y          | Y          |
| 2426 MHz to 2448 MHz | Y               | -      | -          | Y          | -          | Y          | -          | -          |

\*Wireless block hardware is the same as Type A.

Wifi frequency can be selected between 2.4 GHz or 5 GHz by the product's built-in software.

## SECTION 3: Test Summary

### 3.1 Test Specification

|                    |                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Specification | FCC Part 15 Subpart E<br>The latest version on the first day of the testing period                                                                             |
| Title              | FCC 47 CFR Part 15 Radio Frequency Device Subpart E<br>Unlicensed National Information Infrastructure Devices<br>Section 15.407 General technical requirements |

### 3.2 Reference Standards

ANSI/USEMCSC C63.2-2023  
ANSI C63.4-2014+C63.4a-2017  
ANSI C63.10-2020  
ANSI/USEMCSC C63.10/Cor 1-2023  
ANSI/USEMCSC C63.10a-2024 for ISED  
ANSI C63.5-2017  
ANSI C63.25.1-2018  
KDB 789033 D02 v02r01

### 3.3 Summary of Test Results

| Item                                                                                                                                   | Specification                                           | Results  | Remarks                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------|--------------------------------------------------------------|
| Conducted Emission                                                                                                                     | FCC: 15.407 (b) (9) / 15.207<br>ISED: RSS-Gen 8.8       | N/A      | *1)                                                          |
| 26 dB Emission Bandwidth                                                                                                               | FCC: 15.407 (a) (1) (2) (3)<br>ISED: -                  | N/A      | Conducted<br>*2)                                             |
| Maximum Conducted Output Power                                                                                                         | FCC: 15.407 (a) (1) (2) (3)<br>ISED: RSS-247 6.2        | Complied | Conducted                                                    |
| Maximum Power Spectral Density                                                                                                         | FCC : 15.407 (a) (1) (2) (3)<br>ISED: RSS-247 6.2       | Complied | Conducted                                                    |
| Spurious Emission Restricted Band Edge                                                                                                 | FCC: 15.407 (b), 15.205 and 15.209<br>ISED: RSS-247 6.2 | Complied | Conducted (below 30 MHz) /<br>Radiated (above 30 MHz)<br>*3) |
| 6 dB Emission Bandwidth                                                                                                                | FCC: 15.407 (e)<br>ISED: RSS-247 6.2                    | Complied | Conducted                                                    |
| Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.                           |                                                         |          |                                                              |
| *1) The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line. |                                                         |          |                                                              |
| *2) The test is not applicable since this product is a 5.8 GHz band product.                                                           |                                                         |          |                                                              |
| *3) Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 789033 D02 G.3.b).                                          |                                                         |          |                                                              |

#### **FCC Part 15.31 (e)**

This EUT provides the stable voltage constantly to RF Module regardless of input voltage.  
Therefore, this EUT complies with the requirement.

#### **FCC Part 15.203 Antenna requirement**

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT.  
Therefore, the equipment complies with the antenna requirement of Section 15.203.

### 3.4 Addition to Standard

| Item                   | Specification | Results | Remarks   |
|------------------------|---------------|---------|-----------|
| 99% Occupied Bandwidth | ISED: -       | -       | Conducted |

Other than above, no addition, exclusion nor deviation has been made from the standard.

### 3.5 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.  
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor  $k = 2$ .

#### Radiated emission

| Measurement distance | Frequency range     |            | Unit | Calculated Uncertainty (+/-) |
|----------------------|---------------------|------------|------|------------------------------|
| 3 m                  | 9 kHz to 30 MHz     |            | dB   | 3.3                          |
| 10 m                 |                     |            | dB   | 3.1                          |
| 3 m                  | 30 MHz to 200 MHz   | Horizontal | dB   | 5.0                          |
|                      |                     | Vertical   | dB   | 5.0                          |
|                      | 200 MHz to 1000 MHz | Horizontal | dB   | 5.2                          |
|                      |                     | Vertical   | dB   | 6.2                          |
| 10 m                 | 30 MHz to 200 MHz   | Horizontal | dB   | 5.5                          |
|                      |                     | Vertical   | dB   | 5.4                          |
|                      | 200 MHz to 1000 MHz | Horizontal | dB   | 5.5                          |
|                      |                     | Vertical   | dB   | 5.5                          |
| 3 m                  | 1 GHz to 6 GHz      |            | dB   | 5.1                          |
|                      | 6 GHz to 18 GHz     |            | dB   | 5.4                          |
| 1 m                  | 10 GHz to 18 GHz    |            | dB   | 5.4                          |
|                      | 18 GHz to 26.5 GHz  |            | dB   | 5.3                          |
|                      | 26.5 GHz to 40 GHz  |            | dB   | 4.8                          |
| 0.5 m                | 26.5 GHz to 40 GHz  |            | dB   | 5.0                          |

#### Antenna Terminal Conducted

| Item                                                                | Unit   | Calculated Uncertainty (+/-) |
|---------------------------------------------------------------------|--------|------------------------------|
| Antenna terminated conducted emission / Power density / Burst power | dB     | 3.50                         |
| Adjacent channel power (ACP)                                        | dB     | 2.32                         |
| Bandwidth (OBW)                                                     | %      | 0.96                         |
| Time readout (time span upto 100 msec)                              | %      | 0.11                         |
| Time readout (time span upto 1000 msec)                             | %      | 0.11                         |
| Time readout (time span upto 60 sec)                                | %      | 0.02                         |
| Power measurement (Power meter < 8 GHz)                             | dB     | 1.43                         |
| Power measurement (Call box < 6 GHz)                                | dB     | 1.89                         |
| Frequency readout (Frequency counter)                               | ppm    | 0.67                         |
| Frequency readout (Spectrum analyzer frequency readout function)    | ppm    | 2.13                         |
| Temperature (constant temperature bath)                             | deg. C | 0.69                         |
| Humidity (constant temperature bath)                                | %RH    | 2.98                         |
| Modulation characteristics                                          | %      | 6.93                         |
| Frequency for mobile                                                | ppm    | 0.08                         |
| Contention-based protocol                                           | dB     | 2.97                         |

### 3.6 Test Location

UL Japan, Inc. Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

| Test site                         | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Other rooms                 | Maximum measurement distance |
|-----------------------------------|----------------------------|------------------------------------------------------------------|-----------------------------|------------------------------|
| No.1 semi-anechoic chamber (SAC1) | 19.2 x 11.2 x 7.7          | 7.0 x 6.0                                                        | No.1 Power source room      | 10 m                         |
| No.2 semi-anechoic chamber (SAC2) | 7.5 x 5.8 x 5.2            | 4.0 x 4.0                                                        | -                           | 3 m                          |
| No.3 semi-anechoic chamber (SAC3) | 12.0 x 8.5 x 5.9           | 6.8 x 5.75                                                       | No.3 Preparation room (PR3) | 3 m                          |
| No.3 shielded room (SR3)          | 4.0 x 6.0 x 2.7            | N/A                                                              | -                           | -                            |
| No.4 semi-anechoic chamber (SAC4) | 12.0 x 8.5 x 5.9           | 6.8 x 5.75                                                       | No.4 Preparation room (PR4) | 3 m                          |
| No.4 shielded room (SR4)          | 4.0 x 6.0 x 2.7            | N/A                                                              | -                           | -                            |
| No.5 semi-anechoic chamber (SAC5) | 6.0 x 6.0 x 3.9            | 6.0 x 6.0                                                        | -                           | -                            |
| No.5 measurement room (MR5)       | 6.4 x 6.4 x 3.0            | 6.4 x 6.4                                                        | -                           | -                            |
| No.6 shielded room (SR6)          | 4.0 x 4.5 x 2.7            | 4.0 x 4.5                                                        | -                           | -                            |
| No.6 measurement room (MR6)       | 4.75 x 5.4 x 3.0           | 4.75 x 4.15                                                      | -                           | -                            |
| No.7 shielded room (SR7)          | 4.7 x 7.5 x 2.7            | 4.7 x 7.5                                                        | -                           | -                            |
| No.8 measurement room (MR8)       | 3.1 x 5.0 x 2.7            | 3.1 x 5.0                                                        | -                           | -                            |
| No.9 measurement room (MR9)       | 8.8 x 4.6 x 2.8            | 2.4 x 2.4                                                        | -                           | -                            |
| No.10 shielded room (SR10)        | 3.8 x 2.8 x 2.8            | 3.8 x 2.8                                                        | -                           | -                            |
| No.11 measurement room (MR11)     | 4.0 x 3.4 x 2.5            | N/A                                                              | -                           | -                            |
| No.12 measurement room (MR12)     | 2.6 x 3.4 x 2.5            | N/A                                                              | -                           | -                            |
| Large Chamber                     | 16.9 x 22.1 x 10.17        | 16.9 x 22.1                                                      | -                           | 10 m                         |
| Small Chamber                     | 5.3 x 6.69 x 3.59          | 5.3 x 6.69                                                       | -                           | -                            |

### 3.7 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

## SECTION 4: Operation of EUT during testing

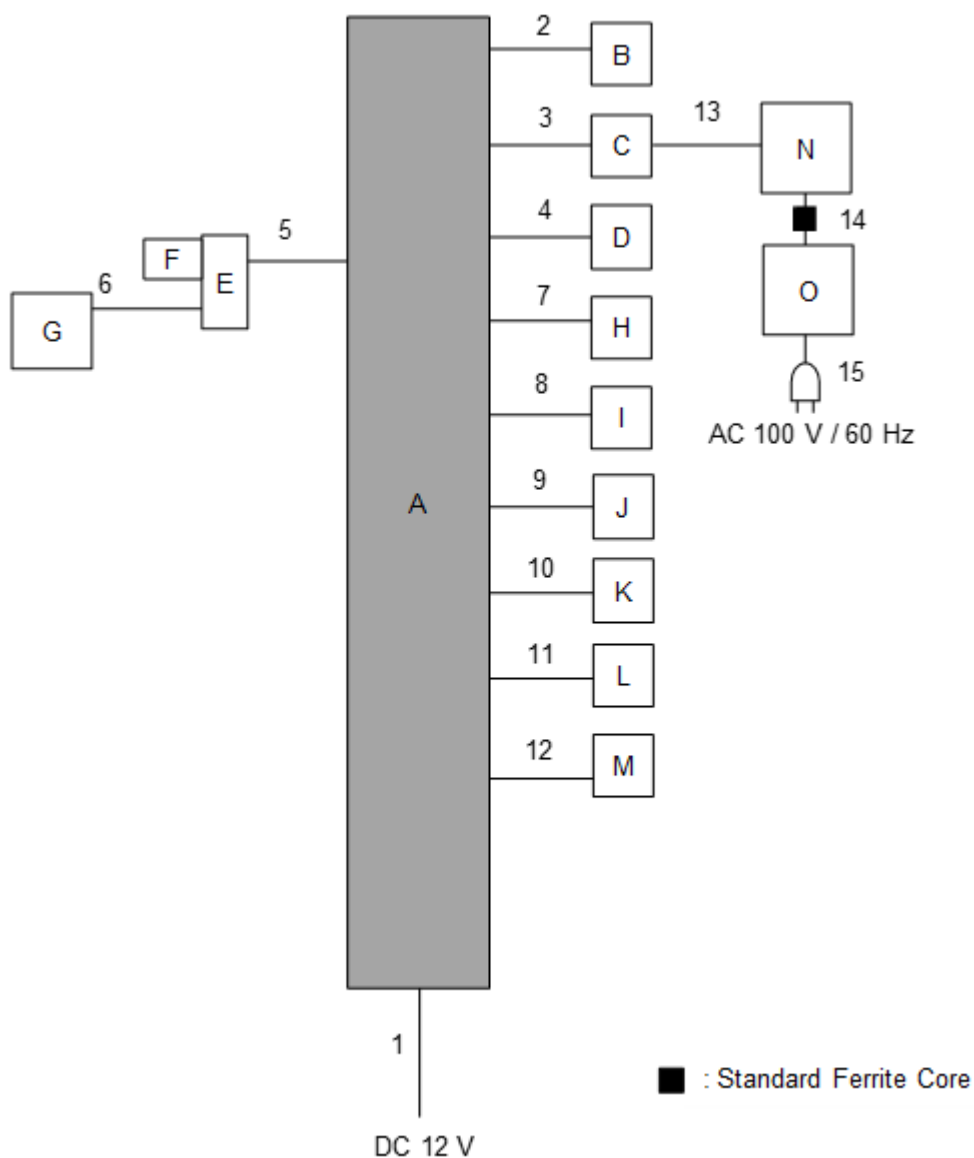
### 4.1 Operating Mode(s)

| Mode                                                                                                                                                                                                                                                                                       | Remarks*             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| IEEE 802.11a (11a)                                                                                                                                                                                                                                                                         | 48 Mbps, PN9         |
| IEEE 802.11n 20 MHz BW (11n-20)                                                                                                                                                                                                                                                            | MCS 5 (Long GI), PN9 |
| IEEE 802.11ac 20 MHz BW (11ac-20)                                                                                                                                                                                                                                                          | MCS 8 (Long GI), PN9 |
| IEEE 802.11n 40 MHz BW (11n-40)                                                                                                                                                                                                                                                            | MCS 7 (Long GI), PN9 |
| IEEE 802.11ac 40 MHz BW (11ac-40)                                                                                                                                                                                                                                                          | MCS 4 (Long GI), PN9 |
| IEEE 802.11ac 80 MHz BW (11ac-80)                                                                                                                                                                                                                                                          | MCS 9 (Long GI), PN9 |
| *The worst condition was determined based on the test result of Maximum Conducted Output Power.                                                                                                                                                                                            |                      |
| *Power of the EUT was set by the software as follows;<br>Power Setting: 11a: 6.5 dBm<br>11n-20: 6.5 dBm<br>11ac-20: 6.5 dBm<br>11n-40: 6.5 dBm<br>11ac-40: 6.5 dBm<br>11ac-80: 6.5 dBm<br>Software: Wi-Fi Test FW_WF1 Version: WF1<br>(Date: August 8, 2024, Storage location: EUT memory) |                      |
| *This setting of software is the worst case.<br>Any conditions under the normal use do not exceed the condition of setting.<br>In addition, end users cannot change the settings of the output power of the product.                                                                       |                      |
| Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals - " of TCB Council Workshop October 2009 and also was judged the necessity of 802.11ac mode by the pre-test.                                     |                      |

\*The Details of Operation Mode(s)

| Test Item                                                                                                                                                                                                                                                                                                                        | Operating Mode | Tested Frequency |             |                 |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|-------------|-----------------|------------|
|                                                                                                                                                                                                                                                                                                                                  |                | Lower Band       | Middle Band | Additional Band | Upper Band |
| 99 % Occupied Bandwidth, 6 dB Bandwidth, Maximum Conducted Output Power, Maximum Power Spectral Density                                                                                                                                                                                                                          | Tx 11a         | -                | -           | -               | 5765 MHz   |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11n-20      | -                | -           | -               |            |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11ac-20     | -                | -           | -               |            |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11n-40      | -                | -           | -               | 5755 MHz   |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11ac-40     | -                | -           | -               |            |
| Radiated Spurious Emission (Below 1 GHz)                                                                                                                                                                                                                                                                                         | Tx 11ac-80     | -                | -           | -               | 5775 MHz   |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11n-20 *1)  | -                | -           | -               | 5765 MHz   |
| Radiated Spurious Emission (Above 1 GHz)                                                                                                                                                                                                                                                                                         | Tx 11a         | -                | -           | -               | 5765 MHz   |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11n-20      | -                | -           | -               |            |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11ac-20     | -                | -           | -               |            |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11ac-40 *2) | -                | -           | -               | 5755 MHz   |
| Conducted Spurious Emission                                                                                                                                                                                                                                                                                                      | Tx 11ac-80     | -                | -           | -               | 5775 MHz   |
|                                                                                                                                                                                                                                                                                                                                  | Tx 11n-20      | -                | -           | -               | 5765 MHz   |
| *1) The mode was tested as a representative, because it had the highest power at antenna terminal test.<br>*2) Since each of 40 MHz BW (11n-40 / 11ac-40) have the same modulation method and no differences in transmitting specification, the test was performed on the representative mode that had the highest output power. |                |                  |             |                 |            |

## 4.2 Configuration and Peripherals



\* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

#### Description of EUT and Support Equipment

| No. | Item                     | Model number   | Serial Number                                    | Manufacturer              | Remarks  |
|-----|--------------------------|----------------|--------------------------------------------------|---------------------------|----------|
| A   | Car Audio                | TN0047B        | 100314489-0002 for RE*<br>100314489-0003 for AT* | DENSO TEN Limited         | EUT      |
| B   | Microphone               | 86730-78010    | SDD308200901-693                                 | Panasonic                 | -        |
| C   | Jig Board                | -              | -                                                | -                         | -        |
| D   | Digital Camera           | 867B0-78070    | HX2215003173                                     | Panasonic                 | -        |
| E   | USB I/F BOX              | 86190-78020    | 501010                                           | Panasonic                 | -        |
| F   | USB Memory               | RUF3-K16GB     | P10416                                           | Buffalo Inc.              | -        |
| G   | iPhone                   | MQ7A2J/A       | F4GVGPWWJC6J                                     | Apple                     | -        |
| H   | Steering Switch          | 84250-58150-BO | NO1                                              | -                         | -        |
| I   | GNSS Antenna             | 86880-78010    | Vf011904                                         | Harada Industry Co., Ltd. | -        |
| J   | Speaker Dummy            | SP Dummy       | NO1                                              | DENSO TEN Limited         | -        |
| K   | AM / FM SharkFin Antenna | 86760-K0010    | NO3                                              | Yokowo Co., Ltd.          | -        |
| L   | Analog Camera            | 86790-60670    | D310018                                          | Panasonic                 | -        |
| M   | DAB Antenna              | 863C0-60050    | PQB02831                                         | DENSO TEN Limited         | -        |
| N   | Laptop PC                | X1 Carbon      | R9-OH8TU 15/9                                    | LENOVO                    | AT* only |
| O   | AC Adapter               | ADLX45NC2A     | 8SSA10E75794C1SG59R0GHF                          | LENOVO                    | AT* only |

#### List of Cables Used

| No. | Name               | Length (m) | Shield     |            | Remarks  |
|-----|--------------------|------------|------------|------------|----------|
|     |                    |            | Cable      | Connector  |          |
| 1   | DC Cable           | 5.0        | Unshielded | Unshielded | -        |
| 2   | Signal Cable       | 3.0        | Unshielded | Unshielded | -        |
| 3   | Flat Cable         | 0.1        | Unshielded | Unshielded | -        |
| 4   | Signal Cable       | 6.0        | Unshielded | Unshielded | -        |
| 5   | Signal Cable       | 2.8        | Unshielded | Unshielded | -        |
| 6   | USB Cable          | 1.0        | Shielded   | Shielded   | -        |
| 7   | Signal Cable       | 3.0        | Unshielded | Unshielded | -        |
| 8   | GNSS Antenna Cable | 3.1        | Shielded   | Shielded   | -        |
| 9   | Speaker Cable      | 3.0        | Unshielded | Unshielded | -        |
| 10  | AM / FM Cable      | 3.1        | Shielded   | Shielded   | -        |
| 11  | Signal Cable       | 3.0        | Unshielded | Unshielded | -        |
| 12  | DAB Cable          | 3.4        | Unshielded | Unshielded | -        |
| 13  | USB Cable          | 0.9        | Shielded   | Shielded   | AT* only |
| 14  | DC Cable           | 1.7        | Unshielded | Unshielded | AT* only |
| 15  | AC Cable           | 2.0        | Unshielded | Unshielded | AT* only |

\* RE: Radiated Spurious Emission test, AT: Antenna Terminal conducted test

## **SECTION 5: Radiated Spurious Emission and Band Edge Compliance**

### **Test Procedure**

#### **< Below 1 GHz >**

EUT was placed on a platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

#### **< Above 1 GHz >**

EUT was placed on a platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane. Test antenna was aimed at the EUT for receiving the maximum signal and always kept within the illumination area of the 3 dB beamwidth of the antenna.

The height of the measuring antenna varied between 1 m and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

#### **< Below 1 GHz >**

The result also satisfied with the general limits specified in section 15.209 (a).

#### **< Above 1 GHz >**

Inside of restricted bands (Section 15.205):

Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.\*) in the Section 15.407 (b) (1) (2) (3).

For 5.8 GHz band Bandedge

-27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge in the section 15.407(b)(4)(i).

Restricted band edge:

Apply to limit in the Section 15.209 (a).

Since this limit is severer than the limit of the inside of restricted bands.

\*Electric field strength to e.i.r.p. conversion:

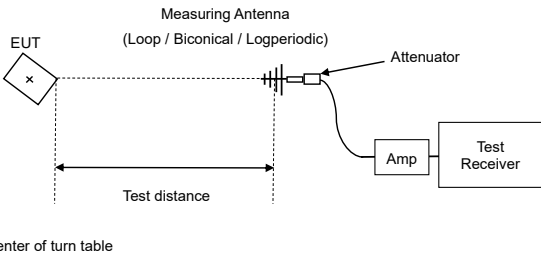
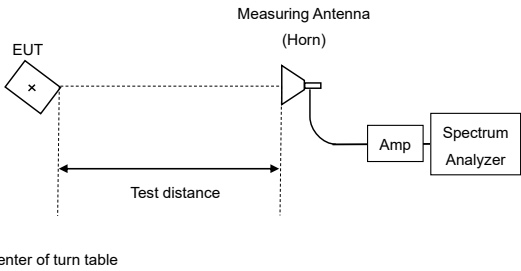
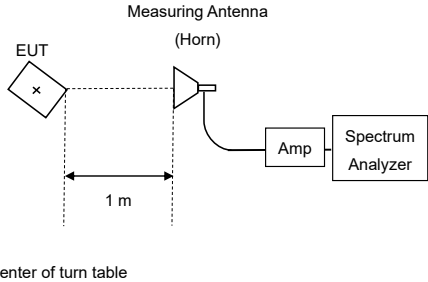
$$E = \frac{1000000\sqrt{30P}}{3} \text{ (uV/m)} \quad : P \text{ is the e.i.r.p. (Watts)}$$

**Test Antennas are used as below;**

|              |                   |                  |             |
|--------------|-------------------|------------------|-------------|
| Frequency    | 30 MHz to 200 MHz | 200 MHz to 1 GHz | Above 1 GHz |
| Antenna Type | Biconical         | Logperiodic      | Horn        |

|                 |               |                          |                                                                                                                                                                                     |
|-----------------|---------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency       | Below 1 GHz   | Above 1 GHz              |                                                                                                                                                                                     |
| Instrument Used | Test Receiver | Spectrum Analyzer        |                                                                                                                                                                                     |
| Detector        | QP            | Peak                     | Average                                                                                                                                                                             |
| IF Bandwidth    | BW: 120 kHz   | RBW: 1 MHz<br>VBW: 3 MHz | Method AD<br>RBW: 1 MHz<br>VBW: 3 MHz<br>Detector: Power<br>Averaging (RMS)<br>Trace: $\geq 100$ traces<br>If duty cycle was less than 98%, a duty factor was added to the results. |

Figure 1: Test Setup

| Below 1 GHz                                                                                                         |                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  <p>× : Center of turn table</p>   | Test Distance: 3 m                                                                                         |
| 1 GHz to 18 GHz                                                                                                     |                                                                                                            |
|  <p>× : Center of turn table</p>   | Test Distance: 3 m                                                                                         |
| 18 GHz to 40 GHz                                                                                                    |                                                                                                            |
|  <p>× : Center of turn table</p> | Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$<br>*Test Distance: 1 m |

The test was made on EUT at the normal use position.

Test results are rounded off and limit are rounded down, so some differences might be observed.

Measurement Range : 30 MHz to 40 GHz  
Test Data : APPENDIX  
Test Result : Pass

## SECTION 6: Antenna Terminal Conducted Tests

### Test Procedure

The tests were made with below setting connected to the antenna port.

| Test                               | Span                                    | RBW                 | VBW     | Sweep time | Detector                        | Trace       | Instrument used and Test method               |
|------------------------------------|-----------------------------------------|---------------------|---------|------------|---------------------------------|-------------|-----------------------------------------------|
| 26 dB Bandwidth                    | Enough to capture the emission          | Close to 1 % of EBW | > RBW   | Auto       | Peak                            | Max Hold    | Spectrum Analyzer                             |
| 99 % Occupied Bandwidth *1)        | Enough width to display emission skirts | 1 % to 5 % of OBW   | ≥ 3 RBW | Auto       | Peak                            | Max Hold    | Spectrum Analyzer                             |
| 6 dB Bandwidth                     | Enough to capture the emission          | 100 kHz             | 300 kHz | Auto       | Peak                            | Max Hold    | Spectrum Analyzer                             |
| Maximum Conducted Output Power     | -                                       | -                   | -       | Auto       | Average                         | -           | Power Meter (Sensor: 80 MHz BW) (Method PM-G) |
| Maximum Power Spectral Density     | Encompass the entire EBW                | 470 kHz *2)         | ≥ 3 RBW | Auto       | RMS Power Averaging (100 times) | Clear Write | Spectrum Analyzer                             |
| Conducted Spurious Emission*3) *4) | 9 kHz to 150 kHz                        | 200 Hz              | 620 Hz  | Auto       | Peak                            | Max Hold    | Spectrum Analyzer                             |
|                                    | 150 kHz to 30 MHz                       | 10 kHz              | 30 kHz  |            |                                 |             |                                               |

\*1) Peak hold was applied as Worst-case measurement.

\*2) KDB 789033 D02 says that RBW is set to be 500 kHz for 5.725 GHz to 5.850 GHz, but it is not possible with spectrum analyzer, so RBW Correction Factor ( $10 \log(500 \text{ kHz} / 470 \text{ kHz})$ ) was added to the test result.

\*3) In the frequency range below 30 MHz, RBW was narrowed to separate the noise contents.

Then, wide-band noise near the limit was checked separately, however the noise was not detected as shown in the chart. (9 kHz to 150 kHz: RBW = 200 Hz, 150 kHz to 30 MHz: RBW = 10 kHz)

\*4) The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, the measurement at frequency 9 kHz resulted in a level of 45.5 dBuV/m, which is equivalent to  $45.5 - 51.5 = -6.0$  dBuA/m, which has the same margin, 3 dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

Test results are rounded off and limit are rounded down, so some differences might be observed.  
The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX  
Test Result : Pass

---

**APPENDIX 1: Test Data**

**99 % Occupied Bandwidth**

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11a

| Tested<br>Frequency<br>[MHz] | 26 dB Emission<br>Bandwidth<br>[MHz] | 99 % Occupied<br>Bandwidth<br>[kHz] |
|------------------------------|--------------------------------------|-------------------------------------|
| 5765                         | -                                    | <b>16601.7</b>                      |

---

**99 % Occupied Bandwidth**

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11n-20

| Tested<br>Frequency<br>[MHz] | 26 dB Emission<br>Bandwidth<br>[MHz] | 99 % Occupied<br>Bandwidth<br>[kHz] |
|------------------------------|--------------------------------------|-------------------------------------|
| 5765                         | -                                    | <b>17773.1</b>                      |

---

### 99 % Occupied Bandwidth

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11ac-20

| Tested<br>Frequency<br>[MHz] | 26 dB Emission<br>Bandwidth<br>[MHz] | 99 % Occupied<br>Bandwidth<br>[kHz] |
|------------------------------|--------------------------------------|-------------------------------------|
| 5765                         | -                                    | <b>17809.4</b>                      |

---

**99 % Occupied Bandwidth**

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11n-40

| Tested<br>Frequency<br>[MHz] | 26 dB Emission<br>Bandwidth<br>[MHz] | 99 % Occupied<br>Bandwidth<br>[kHz] |
|------------------------------|--------------------------------------|-------------------------------------|
| 5755                         | -                                    | <b>36275.7</b>                      |

---

### 99 % Occupied Bandwidth

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11ac-40

| Tested<br>Frequency<br>[MHz] | 26 dB Emission<br>Bandwidth<br>[MHz] | 99 % Occupied<br>Bandwidth<br>[kHz] |
|------------------------------|--------------------------------------|-------------------------------------|
| 5755                         | -                                    | <b>36328.4</b>                      |

---

### 99 % Occupied Bandwidth

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

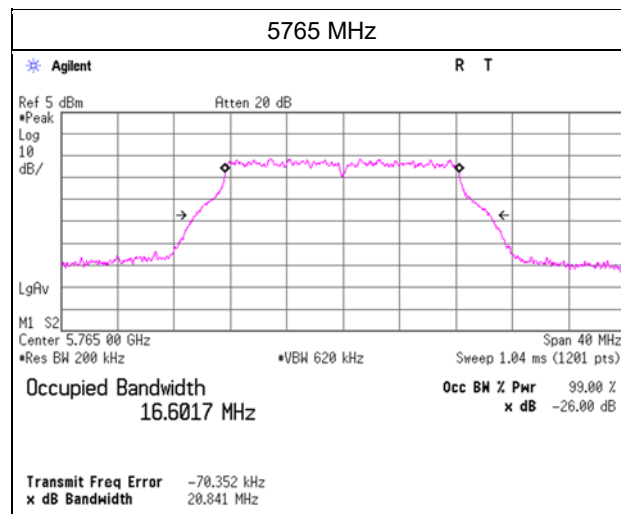
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11ac-80

| Tested<br>Frequency<br>[MHz] | 26 dB Emission<br>Bandwidth<br>[MHz] | 99 % Occupied<br>Bandwidth<br>[kHz] |
|------------------------------|--------------------------------------|-------------------------------------|
| 5775                         | -                                    | <b>75691.1</b>                      |

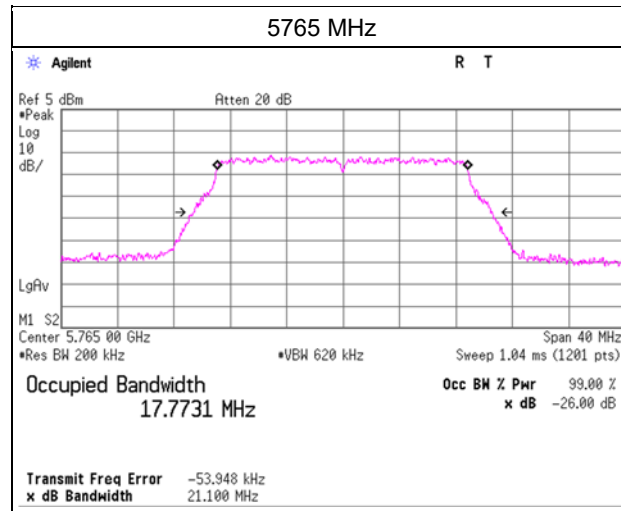
## 99 % Occupied Bandwidth

11a



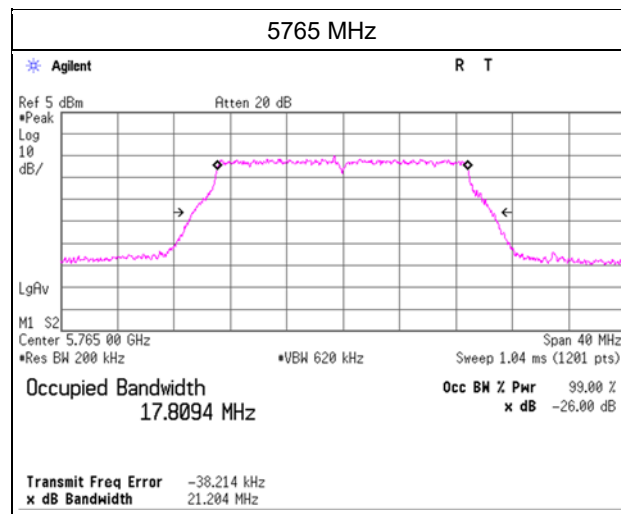
## 99 % Occupied Bandwidth

11n-20



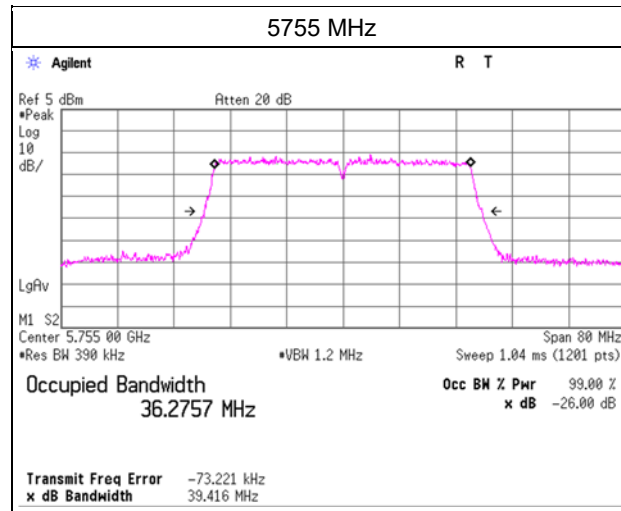
## 99 % Occupied Bandwidth

11ac-20



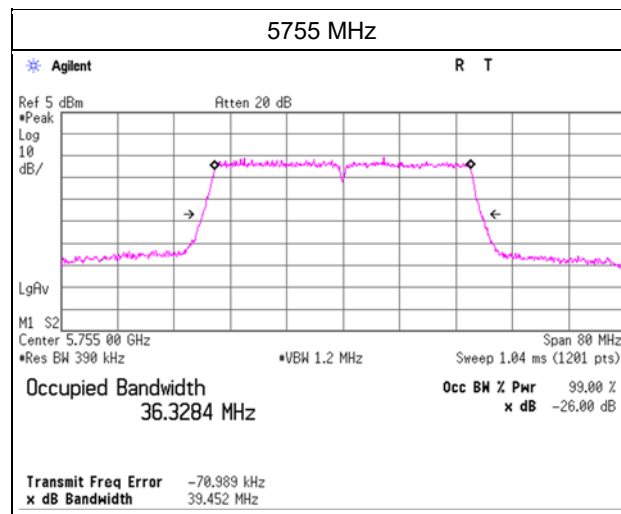
## 99 % Occupied Bandwidth

11n-40



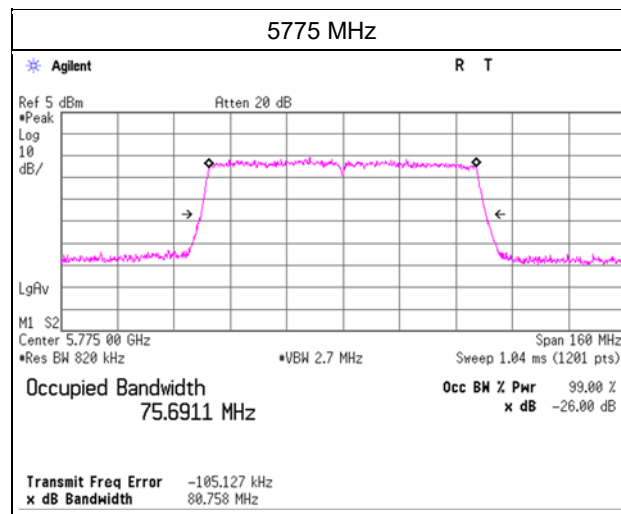
## 99 % Occupied Bandwidth

11ac-40



## 99 % Occupied Bandwidth

11ac-80



---

**6 dB Bandwidth**

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11a

| Tested<br>Frequency<br>[MHz] | 6 dB<br>Bandwidth<br>[MHz] | Limit<br>[MHz] |
|------------------------------|----------------------------|----------------|
| 5765                         | 16.478                     | > 0.500        |

---

**6 dB Bandwidth**

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11n-20

| Tested<br>Frequency<br>[MHz] | 6 dB<br>Bandwidth<br>[MHz] | Limit<br>[MHz] |
|------------------------------|----------------------------|----------------|
| 5765                         | 17.778                     | > 0.500        |

---

### 6 dB Bandwidth

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11ac-20

| Tested<br>Frequency<br>[MHz] | 6 dB<br>Bandwidth<br>[MHz] | Limit<br>[MHz] |
|------------------------------|----------------------------|----------------|
| 5765                         | 17.743                     | > 0.500        |

---

### 6 dB Bandwidth

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11n-40

| Tested<br>Frequency<br>[MHz] | 6 dB<br>Bandwidth<br>[MHz] | Limit<br>[MHz] |
|------------------------------|----------------------------|----------------|
| 5755                         | 36.507                     | > 0.500        |

---

**6 dB Bandwidth**

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11ac-40

| Tested<br>Frequency<br>[MHz] | 6 dB<br>Bandwidth<br>[MHz] | Limit<br>[MHz] |
|------------------------------|----------------------------|----------------|
| 5755                         | 36.462                     | > 0.500        |

---

**6 dB Bandwidth**

|      |    |  |  |  |
|------|----|--|--|--|
| Mode | Tx |  |  |  |
|------|----|--|--|--|

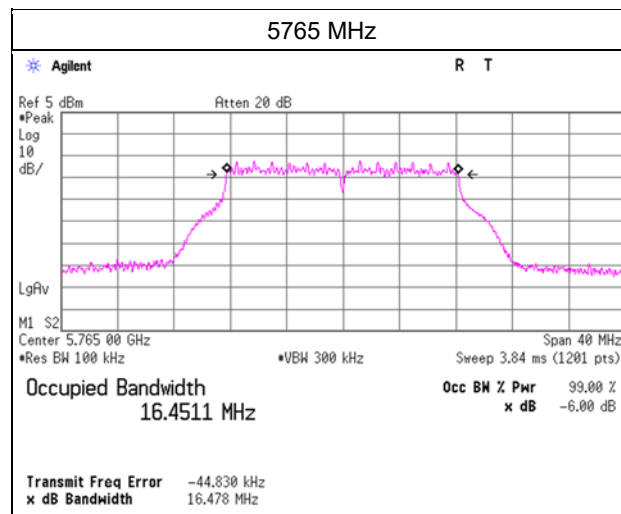
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

11ac-80

| Tested<br>Frequency<br>[MHz] | 6 dB<br>Bandwidth<br>[MHz] | Limit<br>[MHz] |
|------------------------------|----------------------------|----------------|
| 5775                         | 76.314                     | > 0.500        |

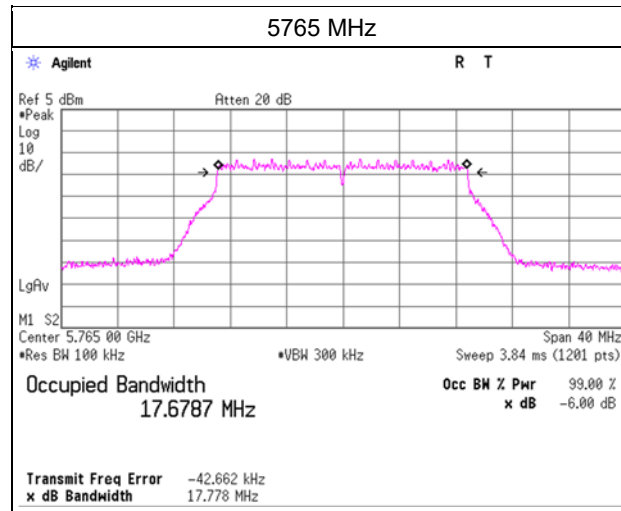
## 6 dB Bandwidth

11a



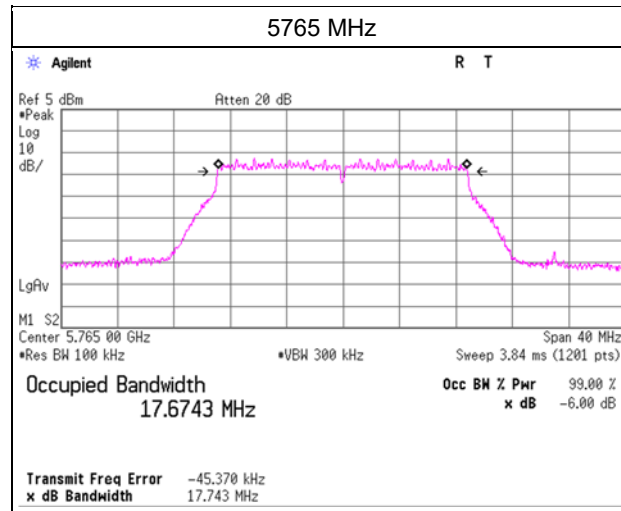
## 6 dB Bandwidth

11n-20



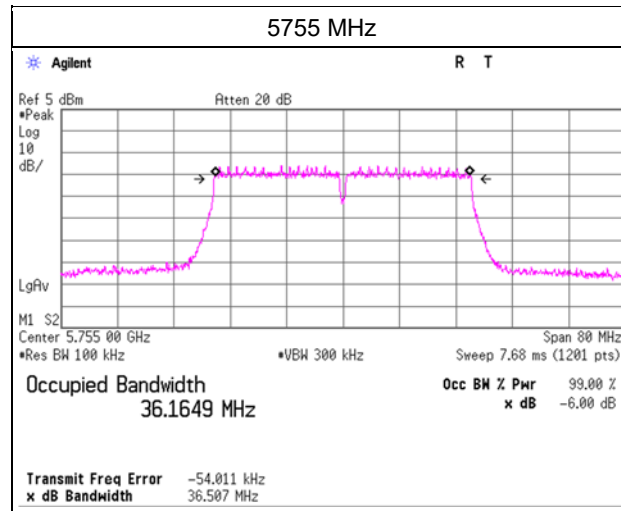
## 6 dB Bandwidth

11ac-20



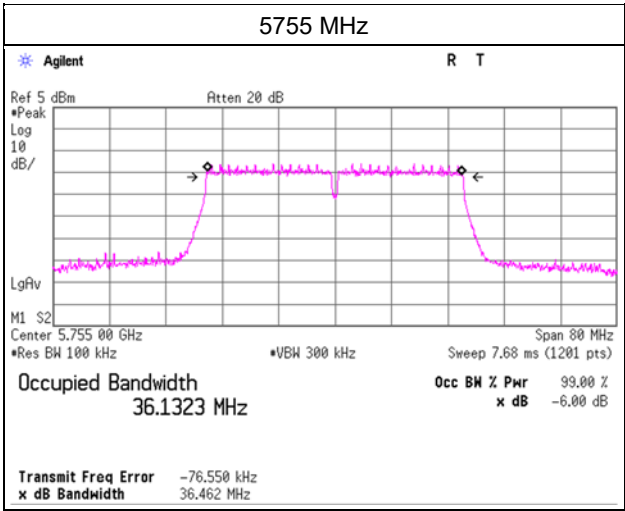
## 6 dB Bandwidth

11n-40



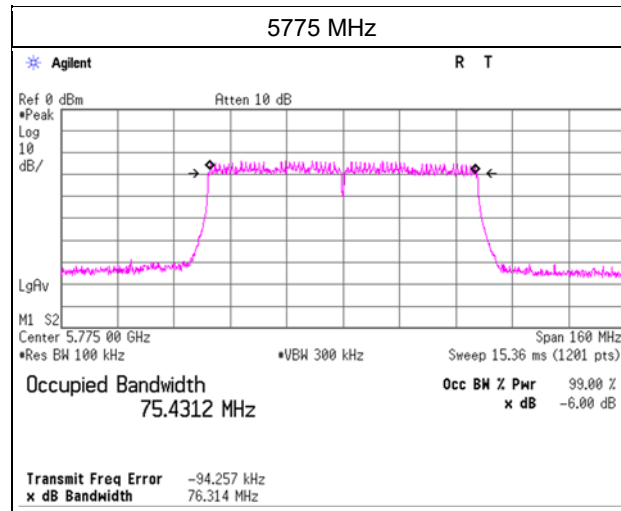
6 dB Bandwidth

11ac-40



## 6 dB Bandwidth

11ac-80



## Maximum Conducted Output Power

|      |              |
|------|--------------|
| Mode | Tx 11a, SISO |
|------|--------------|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

### 11a

| Tested Freq. | Reading | Cable Loss | Atten. Loss | Antenna Gain | Conducted Power |            |        |         |        | e.i.r.p. |            |        |         |        |
|--------------|---------|------------|-------------|--------------|-----------------|------------|--------|---------|--------|----------|------------|--------|---------|--------|
|              |         |            |             |              | Result          | FCC 15.407 |        | RSS-247 |        | Result   | FCC 15.407 |        | RSS-247 |        |
|              |         |            |             |              |                 | Limit      | Margin | Limit   | Margin |          | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm]   | [dB]       | [dB]        | [dBi]        | [dBm]           | [dBm]      | [dB]   | [dBm]   | [dB]   | [dBm]    | [dBm]      | [dB]   | [dBm]   | [dB]   |
| 5765         | -5.81   | 1.64       | 10.07       | 1.65         | 5.90            | 30.00      | 24.10  | 30.00   | 24.10  | 7.55     | 36.00      | 28.45  | 36.00   | 28.45  |

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

15.407 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

RSS-247 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

The test was performed with Gate function.

## Maximum Conducted Output Power

|      |                 |
|------|-----------------|
| Mode | Tx 11n-20, SISO |
|------|-----------------|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

### 11n-20

| Tested Freq. | Reading | Cable Loss | Atten. Loss | Antenna Gain | Conducted Power |            |        |         |        | e.i.r.p.    |            |        |         |        |
|--------------|---------|------------|-------------|--------------|-----------------|------------|--------|---------|--------|-------------|------------|--------|---------|--------|
|              |         |            |             |              | Result          | FCC 15.407 |        | RSS-247 |        | Result      | FCC 15.407 |        | RSS-247 |        |
|              |         |            |             |              |                 | Limit      | Margin | Limit   | Margin |             | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm]   | [dB]       | [dB]        | [dBi]        | [dBm]           | [dBm]      | [dB]   | [dBm]   | [dB]   | [dBm]       | [dBm]      | [dB]   | [dBm]   | [dB]   |
| 5765         | -5.65   | 1.64       | 10.07       | 1.65         | <b>6.06</b>     | 30.00      | 23.94  | 30.00   | 23.94  | <b>7.71</b> | 36.00      | 28.29  | 36.00   | 28.29  |

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss  
e.i.r.p. Result = Conducted Power Result + Antenna Gain

15.407 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

RSS-247 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

The test was performed with Gate function.

## Maximum Conducted Output Power

|      |                  |
|------|------------------|
| Mode | Tx 11ac-20, SISO |
|------|------------------|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

### 11ac-20

| Tested Freq. | Reading | Cable Loss | Atten. Loss | Antenna Gain | Conducted Power |            |        |         |        | e.i.r.p.    |            |        |         |        |
|--------------|---------|------------|-------------|--------------|-----------------|------------|--------|---------|--------|-------------|------------|--------|---------|--------|
|              |         |            |             |              | Result          | FCC 15.407 |        | RSS-247 |        | Result      | FCC 15.407 |        | RSS-247 |        |
|              |         |            |             |              |                 | Limit      | Margin | Limit   | Margin |             | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm]   | [dB]       | [dB]        | [dBi]        | [dBm]           | [dBm]      | [dB]   | [dBm]   | [dB]   | [dBm]       | [dBm]      | [dB]   | [dBm]   | [dB]   |
| 5765         | -5.66   | 1.64       | 10.07       | 1.65         | <b>6.05</b>     | 30.00      | 23.95  | 30.00   | 23.95  | <b>7.70</b> | 36.00      | 28.30  | 36.00   | 28.30  |

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

15.407 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

RSS-247 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

The test was performed with Gate function.

## Maximum Conducted Output Power

|      |                 |
|------|-----------------|
| Mode | Tx 11n-40, SISO |
|------|-----------------|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

### 11n-40

| Tested Freq. | Reading | Cable Loss | Atten. Loss | Antenna Gain | Conducted Power |            |        |         |        | e.i.r.p.    |            |        |         |        |
|--------------|---------|------------|-------------|--------------|-----------------|------------|--------|---------|--------|-------------|------------|--------|---------|--------|
|              |         |            |             |              | Result          | FCC 15.407 |        | RSS-247 |        | Result      | FCC 15.407 |        | RSS-247 |        |
|              |         |            |             |              |                 | Limit      | Margin | Limit   | Margin |             | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm]   | [dB]       | [dB]        | [dBi]        | [dBm]           | [dBm]      | [dB]   | [dBm]   | [dB]   | [dBm]       | [dBm]      | [dB]   | [dBm]   | [dB]   |
| 5755         | -6.00   | 1.61       | 10.07       | 1.65         | <b>5.68</b>     | 30.00      | 24.32  | 30.00   | 24.32  | <b>7.33</b> | 36.00      | 28.67  | 36.00   | 28.67  |

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

15.407 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

RSS-247 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

The test was performed with Gate function.

## Maximum Conducted Output Power

|      |                  |
|------|------------------|
| Mode | Tx 11ac-40, SISO |
|------|------------------|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

### 11ac-40

| Tested Freq. | Reading | Cable Loss | Atten. Loss | Antenna Gain | Conducted Power |            |        |         |        | e.i.r.p. |            |        |         |        |
|--------------|---------|------------|-------------|--------------|-----------------|------------|--------|---------|--------|----------|------------|--------|---------|--------|
|              |         |            |             |              | Result          | FCC 15.407 |        | RSS-247 |        | Result   | FCC 15.407 |        | RSS-247 |        |
|              |         |            |             |              |                 | Limit      | Margin | Limit   | Margin |          | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm]   | [dB]       | [dB]        | [dBi]        | [dBm]           | [dBm]      | [dB]   | [dBm]   | [dB]   | [dBm]    | [dBm]      | [dB]   | [dBm]   | [dB]   |
| 5755         | -5.96   | 1.61       | 10.07       | 1.65         | 5.72            | 30.00      | 24.28  | 30.00   | 24.28  | 7.37     | 36.00      | 28.63  | 36.00   | 28.63  |

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss  
e.i.r.p. Result = Conducted Power Result + Antenna Gain

15.407 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

RSS-247 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

The test was performed with Gate function.

## Maximum Conducted Output Power

|      |                  |
|------|------------------|
| Mode | Tx 11ac-80, SISO |
|------|------------------|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

### 11ac-80

| Tested Freq. | Reading | Cable Loss | Atten. Loss | Antenna Gain | Conducted Power |            |        |         |        | e.i.r.p.    |            |        |         |        |
|--------------|---------|------------|-------------|--------------|-----------------|------------|--------|---------|--------|-------------|------------|--------|---------|--------|
|              |         |            |             |              | Result          | FCC 15.407 |        | RSS-247 |        | Result      | FCC 15.407 |        | RSS-247 |        |
|              |         |            |             |              |                 | Limit      | Margin | Limit   | Margin |             | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm]   | [dB]       | [dB]        | [dBi]        | [dBm]           | [dBm]      | [dB]   | [dBm]   | [dB]   | [dBm]       | [dBm]      | [dB]   | [dBm]   | [dB]   |
| 5775         | -6.18   | 1.66       | 10.07       | 1.65         | <b>5.55</b>     | 30.00      | 24.45  | 30.00   | 24.45  | <b>7.20</b> | 36.00      | 28.80  | 36.00   | 28.80  |

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss  
e.i.r.p. Result = Conducted Power Result + Antenna Gain

15.407 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

RSS-247 Limit

Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

The test was performed with Gate function.

## Worst Rate Check

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

11a

Worst rate check (5765MHz)

| Antenna | Rate<br>[Mbps] | Reading | Cable<br>Loss<br>[dB] | Atten.<br>Loss<br>[dB] | Result |      | Remark |
|---------|----------------|---------|-----------------------|------------------------|--------|------|--------|
|         |                | [dBm]   |                       |                        | [dBm]  | [mW] |        |
| Ant0    | 6              | -6.30   | 1.64                  | 10.07                  | 5.41   | 3.48 | -      |
|         | 9              | -6.51   | 1.64                  | 10.07                  | 5.20   | 3.31 | -      |
|         | 12             | -6.23   | 1.64                  | 10.07                  | 5.48   | 3.53 | -      |
|         | 18             | -6.18   | 1.64                  | 10.07                  | 5.53   | 3.57 | -      |
|         | 24             | -6.06   | 1.64                  | 10.07                  | 5.65   | 3.67 | -      |
|         | 36             | -5.99   | 1.64                  | 10.07                  | 5.72   | 3.73 | -      |
|         | 48             | -5.81   | 1.64                  | 10.07                  | 5.90   | 3.89 | *      |
|         | 54             | -5.84   | 1.64                  | 10.07                  | 5.87   | 3.86 | -      |

\*Worst Rate

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

\*) This measurement was performed only on the on time using the gate function of power meter.

## Worst Rate Check

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

11n-20

Worst rate check (5765MHz)

| Antenna | MCS Index | Guard Interval | Reading [dBm] | Cable Loss [dB] | Atten. Loss [dB] | Result |      | Remark |
|---------|-----------|----------------|---------------|-----------------|------------------|--------|------|--------|
|         |           |                |               |                 |                  | [dBm]  | [mW] |        |
| Ant0    | 0         | 800 ns         | -6.77         | 1.64            | 10.07            | 4.94   | 3.12 | -      |
|         | 1         | 800 ns         | -6.46         | 1.64            | 10.07            | 5.25   | 3.35 | -      |
|         | 2         | 800 ns         | -6.40         | 1.64            | 10.07            | 5.31   | 3.40 | -      |
|         | 3         | 800 ns         | -5.87         | 1.64            | 10.07            | 5.84   | 3.84 | -      |
|         | 4         | 800 ns         | -5.82         | 1.64            | 10.07            | 5.89   | 3.88 | -      |
|         | 5         | 800 ns         | -5.65         | 1.64            | 10.07            | 6.06   | 4.04 | *      |
|         | 6         | 800 ns         | -5.71         | 1.64            | 10.07            | 6.00   | 3.98 | -      |
|         | 7         | 800 ns         | -5.70         | 1.64            | 10.07            | 6.01   | 3.99 | -      |
|         | 5         | 400 ns         | -5.69         | 1.64            | 10.07            | 6.02   | 4.00 | -      |

\*Worst MCS

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

\*) This measurement was performed only on the on time using the gate function of power meter.

## Worst Rate Check

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

11ac-20

Worst rate check (5765MHz)

| Antenna | MCS Index | Guard Interval | Reading [dBm] | Cable Loss [dB] | Atten. Loss [dB] | Result |      | Remark |
|---------|-----------|----------------|---------------|-----------------|------------------|--------|------|--------|
|         |           |                |               |                 |                  | [dBm]  | [mW] |        |
| Ant0    | 0 (1SS)   | 800 ns         | -6.60         | 1.64            | 10.07            | 5.11   | 3.24 | -      |
|         | 1 (1SS)   | 800 ns         | -6.25         | 1.64            | 10.07            | 5.46   | 3.52 | -      |
|         | 2 (1SS)   | 800 ns         | -6.19         | 1.64            | 10.07            | 5.52   | 3.56 | -      |
|         | 3 (1SS)   | 800 ns         | -6.71         | 1.64            | 10.07            | 5.00   | 3.16 | -      |
|         | 4 (1SS)   | 800 ns         | -5.88         | 1.64            | 10.07            | 5.83   | 3.83 | -      |
|         | 5 (1SS)   | 800 ns         | -5.68         | 1.64            | 10.07            | 6.03   | 4.01 | -      |
|         | 6 (1SS)   | 800 ns         | -5.94         | 1.64            | 10.07            | 5.77   | 3.78 | -      |
|         | 7 (1SS)   | 800 ns         | -5.70         | 1.64            | 10.07            | 6.01   | 3.99 | -      |
|         | 8 (1SS)   | 800 ns         | -5.66         | 1.64            | 10.07            | 6.05   | 4.03 | *      |
|         | 8 (1SS)   | 400 ns         | -5.90         | 1.64            | 10.07            | 5.81   | 3.81 | -      |

\*Worst MCS

(\* SS: Spatial Stream)

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

\*) This measurement was performed only on the on time using the gate function of power meter.

## Worst Rate Check

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

11n-40

Worst rate check (5755MHz)

| Antenna | MCS Index | Guard Interval | Reading [dBm] | Cable Loss [dB] | Atten. Loss [dB] | Result |      | Remark |
|---------|-----------|----------------|---------------|-----------------|------------------|--------|------|--------|
|         |           |                |               |                 |                  | [dBm]  | [mW] |        |
| Ant0    | 0         | 800 ns         | -6.52         | 1.61            | 10.07            | 5.16   | 3.28 | -      |
|         | 1         | 800 ns         | -6.23         | 1.61            | 10.07            | 5.45   | 3.51 | -      |
|         | 2         | 800 ns         | -6.43         | 1.61            | 10.07            | 5.25   | 3.35 | -      |
|         | 3         | 800 ns         | -6.26         | 1.61            | 10.07            | 5.42   | 3.48 | -      |
|         | 4         | 800 ns         | -6.19         | 1.61            | 10.07            | 5.49   | 3.54 | -      |
|         | 5         | 800 ns         | -6.08         | 1.61            | 10.07            | 5.60   | 3.63 | -      |
|         | 6         | 800 ns         | -6.02         | 1.61            | 10.07            | 5.66   | 3.68 | -      |
|         | 7         | 800 ns         | -6.00         | 1.61            | 10.07            | 5.68   | 3.70 | *      |
|         | 7         | 400 ns         | -6.18         | 1.61            | 10.07            | 5.50   | 3.55 | -      |

\*Worst MCS

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

\*) This measurement was performed only on the on time using the gate function of power meter.

## Worst Rate Check

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

11ac-40

Worst rate check (5755MHz)

| Antenna | MCS Index | Guard Interval | Reading [dBm] | Cable Loss [dB] | Atten. Loss [dB] | Result |      | Remark |
|---------|-----------|----------------|---------------|-----------------|------------------|--------|------|--------|
|         |           |                |               |                 |                  | [dBm]  | [mW] |        |
| Ant0    | 0 (1SS)   | 800 ns         | -6.46         | 1.61            | 10.07            | 5.22   | 3.33 | -      |
|         | 1 (1SS)   | 800 ns         | -6.51         | 1.61            | 10.07            | 5.17   | 3.29 | -      |
|         | 2 (1SS)   | 800 ns         | -6.44         | 1.61            | 10.07            | 5.24   | 3.34 | -      |
|         | 3 (1SS)   | 800 ns         | -6.27         | 1.61            | 10.07            | 5.41   | 3.48 | -      |
|         | 4 (1SS)   | 800 ns         | -5.96         | 1.61            | 10.07            | 5.72   | 3.73 | *      |
|         | 5 (1SS)   | 800 ns         | -6.11         | 1.61            | 10.07            | 5.57   | 3.61 | -      |
|         | 6 (1SS)   | 800 ns         | -6.28         | 1.61            | 10.07            | 5.40   | 3.47 | -      |
|         | 7 (1SS)   | 800 ns         | -6.06         | 1.61            | 10.07            | 5.62   | 3.65 | -      |
|         | 8 (1SS)   | 800 ns         | -6.23         | 1.61            | 10.07            | 5.45   | 3.51 | -      |
|         | 9 (1SS)   | 800 ns         | -6.00         | 1.61            | 10.07            | 5.68   | 3.70 | -      |
|         | 4 (1SS)   | 400 ns         | -6.20         | 1.61            | 10.07            | 5.48   | 3.53 | -      |

\*Worst MCS

(\* SS: Spatial Stream)

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

\*) This measurement was performed only on the on time using the gate function of power meter.

## Worst Rate Check

|      |    |
|------|----|
| Mode | Tx |
|------|----|

|                  |           |             |          |             |
|------------------|-----------|-------------|----------|-------------|
| Date             | Test Site | Temperature | Humidity | Engineer    |
| October 01, 2025 | MR8       | 22 deg.C    | 56 %RH   | Yuta Moriya |

11ac-80

Worst rate check (5775MHz)

| Antenna | MCS Index | Guard Interval | Reading | Cable Loss | Atten. Loss | Result |      | Remark |
|---------|-----------|----------------|---------|------------|-------------|--------|------|--------|
|         |           |                | [dBm]   | [dB]       | [dB]        | [dBm]  | [mW] |        |
| Ant0    | 0 (1SS)   | 800 ns         | -6.65   | 1.66       | 10.07       | 5.08   | 3.22 | -      |
|         | 1 (1SS)   | 800 ns         | -6.60   | 1.66       | 10.07       | 5.13   | 3.26 | -      |
|         | 2 (1SS)   | 800 ns         | -6.49   | 1.66       | 10.07       | 5.24   | 3.34 | -      |
|         | 3 (1SS)   | 800 ns         | -6.44   | 1.66       | 10.07       | 5.29   | 3.38 | -      |
|         | 4 (1SS)   | 800 ns         | -6.37   | 1.66       | 10.07       | 5.36   | 3.44 | -      |
|         | 5 (1SS)   | 800 ns         | -6.24   | 1.66       | 10.07       | 5.49   | 3.54 | -      |
|         | 6 (1SS)   | 800 ns         | -6.22   | 1.66       | 10.07       | 5.51   | 3.56 | -      |
|         | 7 (1SS)   | 800 ns         | -6.20   | 1.66       | 10.07       | 5.53   | 3.57 | -      |
|         | 8 (1SS)   | 800 ns         | -6.21   | 1.66       | 10.07       | 5.52   | 3.56 | -      |
|         | 9 (1SS)   | 800 ns         | -6.18   | 1.66       | 10.07       | 5.55   | 3.59 | *      |
|         | 9 (1SS)   | 400 ns         | -6.41   | 1.66       | 10.07       | 5.32   | 3.40 | -      |

\*Worst MCS

(\* SS: Spatial Stream)

Sample Calculation:

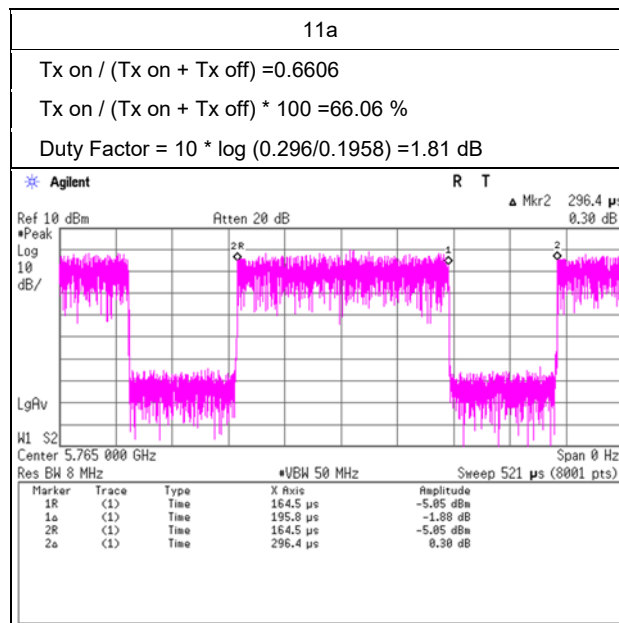
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator Loss

\*) This measurement was performed only on the on time using the gate function of power meter.

## Burst rate confirmation

|      |              |
|------|--------------|
| Mode | Tx 11a, SISO |
|------|--------------|

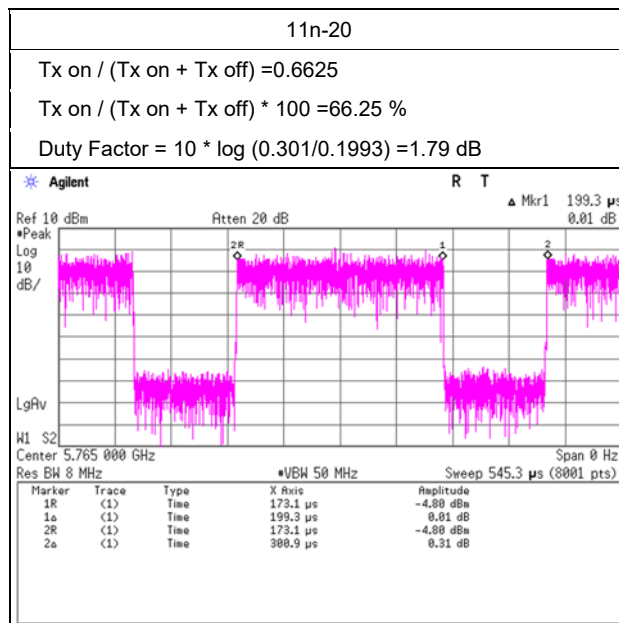
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



### Burst rate confirmation

|      |            |
|------|------------|
| Mode | Tx 11n-20, |
|------|------------|

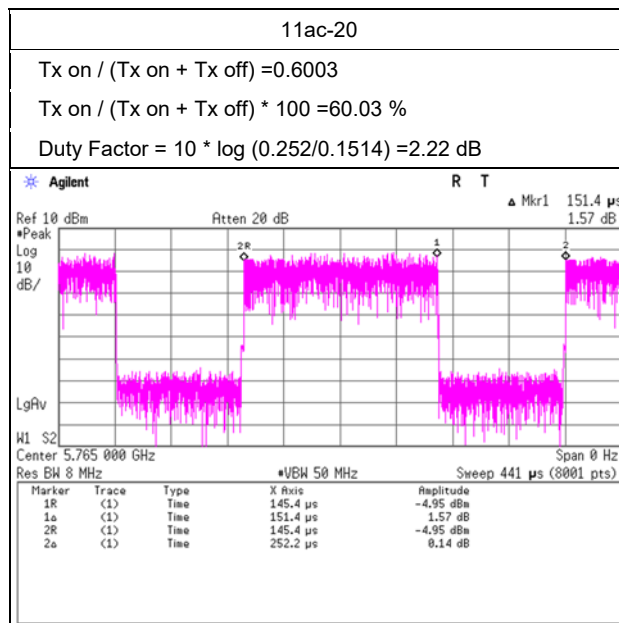
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



### Burst rate confirmation

|      |             |
|------|-------------|
| Mode | Tx 11ac-20, |
|------|-------------|

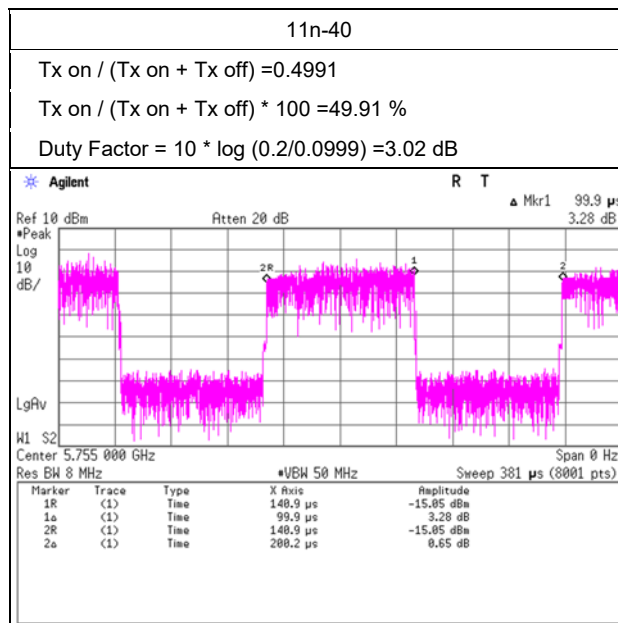
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



## Burst rate confirmation

|      |            |
|------|------------|
| Mode | Tx 11n-40, |
|------|------------|

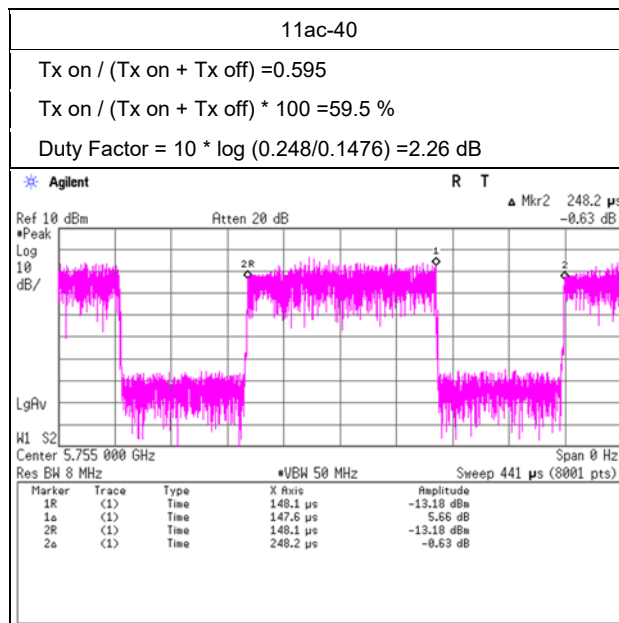
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



## Burst rate confirmation

|      |             |
|------|-------------|
| Mode | Tx 11ac-40, |
|------|-------------|

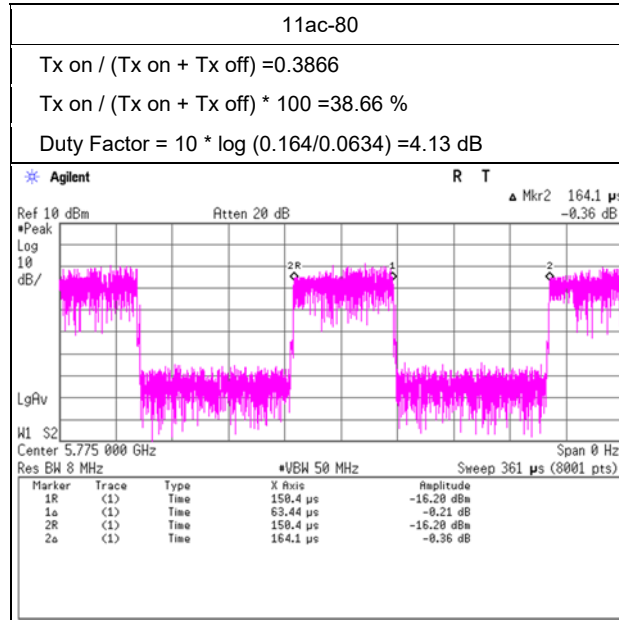
|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



## Burst rate confirmation

|      |             |  |  |  |
|------|-------------|--|--|--|
| Mode | Tx 11ac-80, |  |  |  |
|------|-------------|--|--|--|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



## Maximum Power Spectral Density

|      |              |
|------|--------------|
| Mode | Tx 11a, SISO |
|------|--------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

### 11a

| Tested Freq. | PSD Reading | Cable Loss | Atten. Loss | Antenna Gain | RBW Correction Factor | PSD (Conducted) |            |        |           | PSD (e.i.r.p.) |           |            |        |         |        |
|--------------|-------------|------------|-------------|--------------|-----------------------|-----------------|------------|--------|-----------|----------------|-----------|------------|--------|---------|--------|
|              |             |            |             |              |                       | Result          | FCC 15.407 |        | RSS-247   |                | Result    | FCC 15.407 |        | RSS-247 |        |
|              |             |            |             |              |                       |                 | Limit      | Margin | Limit     | Margin         |           | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm/MHz]   | [dB]       | [dB]        | [dBi]        | [dB]                  | [dBm/MHz]       | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]           | [dBm/MHz] | [dBm/MHz]  | [dB]   | [dB]    |        |
| 5765         | -21.43      | 2.25       | 10.07       | 1.65         | 0.27                  | -8.85           | 30.00      | 38.85  | 30.00     | 38.85          | -7.20     | 36.00      | 43.20  | 36.00   | 43.20  |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The test was performed with Gate function.

## Maximum Power Spectral Density

|      |                 |
|------|-----------------|
| Mode | Tx 11n-20, SISO |
|------|-----------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

### 11n-20

| Tested Freq. | PSD Reading | Cable Loss | Atten. Loss | Antenna Gain | RBW Correction Factor | PSD (Conducted) |            |        |           | PSD (e.i.r.p.) |           |            |        |         |        |
|--------------|-------------|------------|-------------|--------------|-----------------------|-----------------|------------|--------|-----------|----------------|-----------|------------|--------|---------|--------|
|              |             |            |             |              |                       | Result          | FCC 15.407 |        | RSS-247   |                | Result    | FCC 15.407 |        | RSS-247 |        |
|              |             |            |             |              |                       |                 | Limit      | Margin | Limit     | Margin         |           | Limit      | Margin | Limit   | Margin |
| [MHz]        | [dBm/MHz]   | [dB]       | [dB]        | [dBi]        | [dB]                  | [dBm/MHz]       | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]           | [dBm/MHz] | [dBm/MHz]  | [dB]   | [dB]    |        |
| 5765         | -22.16      | 2.25       | 10.07       | 1.65         | 0.27                  | -9.58           | 30.00      | 39.58  | 30.00     | 39.58          | -7.93     | 36.00      | 43.93  | 36.00   | 43.93  |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The test was performed with Gate function.

## Maximum Power Spectral Density

|      |                  |
|------|------------------|
| Mode | Tx 11ac-20, SISO |
|------|------------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

### 11ac-20

| Tested Freq. | PSD Reading | Cable Loss | Atten. Loss | Antenna Gain | RBW Correction Factor | PSD (Conducted) |            |        |           |        | PSD (e.i.r.p.) |            |        |           |        |
|--------------|-------------|------------|-------------|--------------|-----------------------|-----------------|------------|--------|-----------|--------|----------------|------------|--------|-----------|--------|
|              |             |            |             |              |                       | Result          | FCC 15.407 |        | RSS-247   |        | Result         | FCC 15.407 |        | RSS-247   |        |
|              |             |            |             |              |                       |                 | Limit      | Margin | Limit     | Margin |                | Limit      | Margin | Limit     | Margin |
| [MHz]        | [dBm/MHz]   | [dB]       | [dB]        | [dBi]        | [dB]                  | [dBm/MHz]       | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]   | [dBm/MHz]      | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]   |
| 5765         | -22.31      | 2.25       | 10.07       | 1.65         | 0.27                  | -9.73           | 30.00      | 39.73  | 30.00     | 39.73  | -8.08          | 36.00      | 44.08  | 36.00     | 44.08  |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The test was performed with Gate function.

## Maximum Power Spectral Density

|      |                 |
|------|-----------------|
| Mode | Tx 11n-40, SISO |
|------|-----------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

### 11n-40

| Tested Freq. | PSD Reading | Cable Loss | Atten. Loss | Antenna Gain | RBW Correction Factor | PSD (Conducted) |            |        |           | PSD (e.i.r.p.) |           |            |        |           |        |
|--------------|-------------|------------|-------------|--------------|-----------------------|-----------------|------------|--------|-----------|----------------|-----------|------------|--------|-----------|--------|
|              |             |            |             |              |                       | Result          | FCC 15.407 |        | RSS-247   |                | Result    | FCC 15.407 |        | RSS-247   |        |
|              |             |            |             |              |                       |                 | Limit      | Margin | Limit     | Margin         |           | Limit      | Margin | Limit     | Margin |
| [MHz]        | [dBm/MHz]   | [dB]       | [dB]        | [dBi]        | [dB]                  | [dBm/MHz]       | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]           | [dBm/MHz] | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]   |
| 5755         | -25.96      | 2.22       | 10.07       | 1.65         | 0.27                  | -13.41          | 30.00      | 43.41  | 30.00     | 43.41          | -11.76    | 36.00      | 47.76  | 36.00     | 47.76  |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The test was performed with Gate function.

## Maximum Power Spectral Density

|      |                  |
|------|------------------|
| Mode | Tx 11ac-40, SISO |
|------|------------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

### 11ac-40

| Tested Freq. | PSD Reading | Cable Loss | Atten. Loss | Antenna Gain | RBW Correction Factor | PSD (Conducted) |            |        |           | PSD (e.i.r.p.) |           |            |        |         |        |
|--------------|-------------|------------|-------------|--------------|-----------------------|-----------------|------------|--------|-----------|----------------|-----------|------------|--------|---------|--------|
|              |             |            |             |              |                       | Result          | FCC 15.407 |        | RSS-247   |                | Result    | FCC 15.407 |        | RSS-247 |        |
|              |             |            |             |              |                       |                 | Limit      | Margin | Limit     | Margin         |           | Limit      | Margin | Limit   | Margin |
|              |             |            |             |              |                       |                 |            |        |           |                |           |            |        |         |        |
| [MHz]        | [dBm/MHz]   | [dB]       | [dB]        | [dBi]        | [dB]                  | [dBm/MHz]       | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]           | [dBm/MHz] | [dBm/MHz]  | [dB]   | [dB]    |        |
| 5755         | -25.64      | 2.22       | 10.07       | 1.65         | 0.27                  | -13.08          | 30.00      | 43.08  | 30.00     | 43.08          | -11.43    | 36.00      | 47.43  | 36.00   | 47.43  |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The test was performed with Gate function.

## Maximum Power Spectral Density

|      |                  |
|------|------------------|
| Mode | Tx 11ac-80, SISO |
|------|------------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |

### 11ac-80

| Tested Freq. | PSD Reading | Cable Loss | Atten. Loss | Antenna Gain | RBW Correction Factor | PSD (Conducted) |            |        |           | PSD (e.i.r.p.) |           |            |        |           |        |
|--------------|-------------|------------|-------------|--------------|-----------------------|-----------------|------------|--------|-----------|----------------|-----------|------------|--------|-----------|--------|
|              |             |            |             |              |                       | Result          | FCC 15.407 |        | RSS-247   |                | Result    | FCC 15.407 |        | RSS-247   |        |
|              |             |            |             |              |                       |                 | Limit      | Margin | Limit     | Margin         |           | Limit      | Margin | Limit     | Margin |
| [MHz]        | [dBm/MHz]   | [dB]       | [dB]        | [dBi]        | [dB]                  | [dBm/MHz]       | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]           | [dBm/MHz] | [dBm/MHz]  | [dB]   | [dBm/MHz] | [dB]   |
| 5775         | -29.37      | 2.27       | 10.07       | 1.65         | 0.27                  | -16.77          | 30.00      | 46.77  | 30.00     | 46.77          | -15.12    | 36.00      | 51.12  | 36.00     | 51.12  |

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

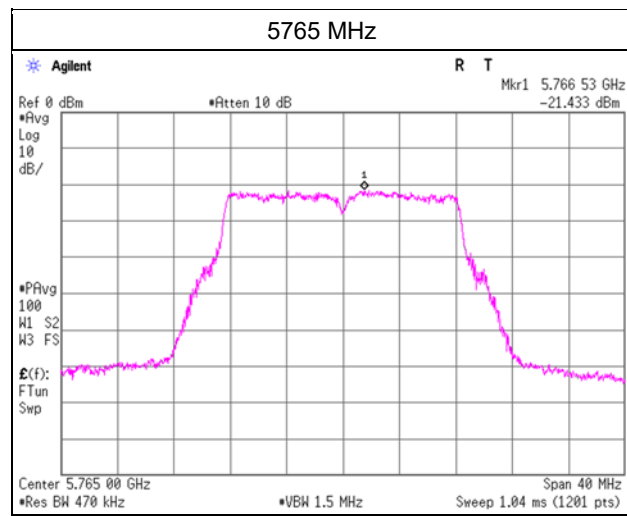
PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The test was performed with Gate function.

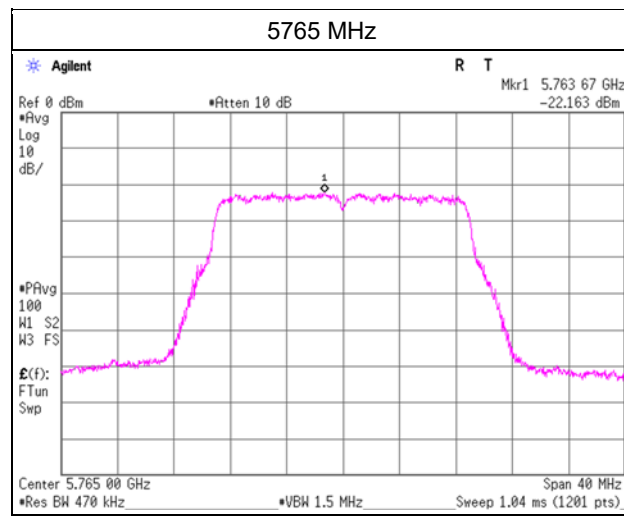
## Maximum Power Spectral Density

11a



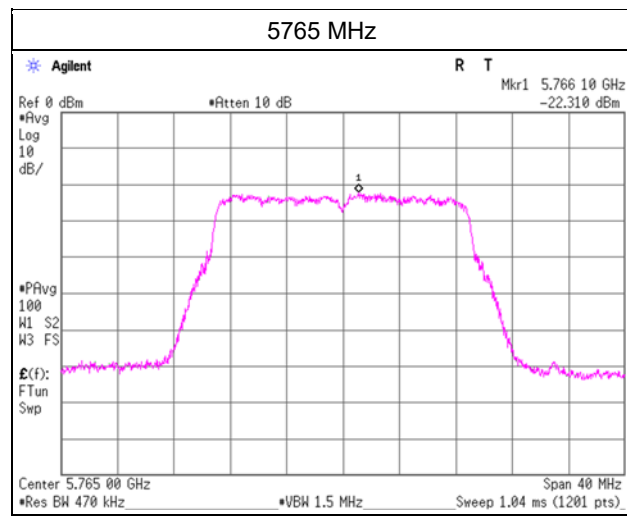
## Maximum Power Spectral Density

11n-20



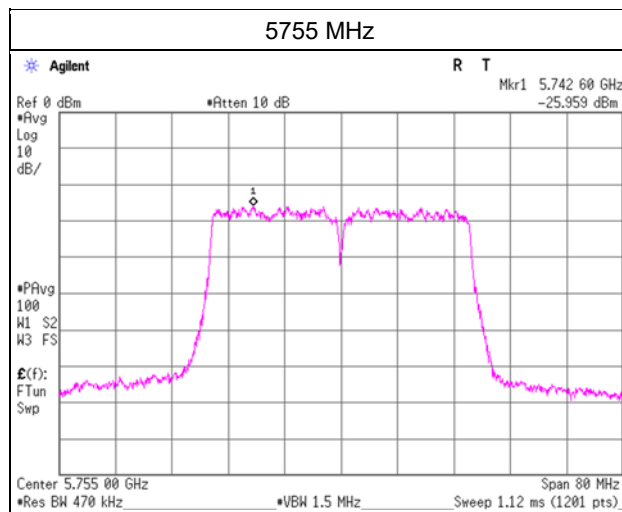
## Maximum Power Spectral Density

11ac-20



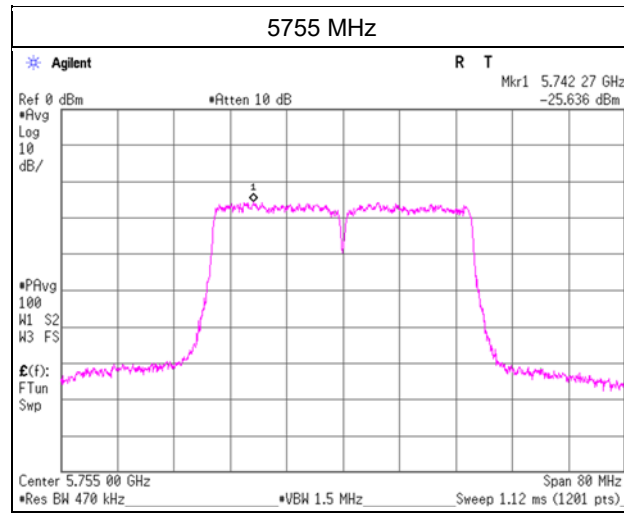
## Maximum Power Spectral Density

11n-40



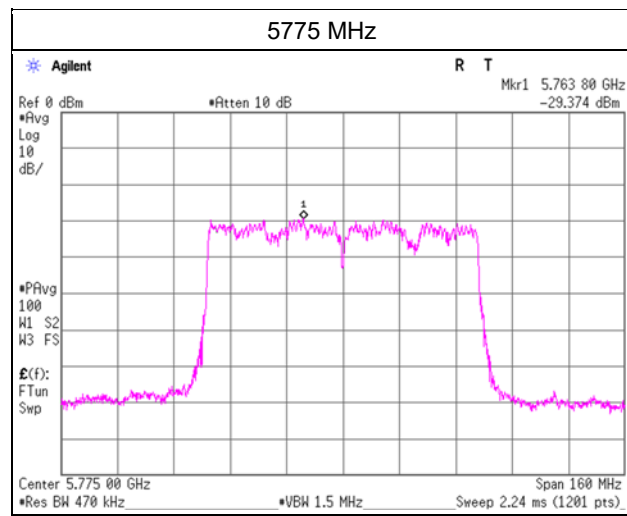
## Maximum Power Spectral Density

11ac-40



## Maximum Power Spectral Density

11ac-80



## Radiated Spurious Emission

|      |                 |
|------|-----------------|
| Mode | Tx 11a 5765 MHz |
|------|-----------------|

| Date            | Test site | Temperature | Humidity | Engineer         | Measurement Range |
|-----------------|-----------|-------------|----------|------------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone      | 1 GHz to 10 GHz   |
| October 5, 2025 | SAC2      | 24 deg. C   | 67 % RH  | Takafumi Noguchi | Above 10 GHz      |

| Polarity    | Frequency | Reading (QP / PK) | Reading (AV) | Ant. Factor | Loss | Gain | Duty Factor | Result (QP / PK) | Result (AV) | Limit (QP / PK) | Limit (AV) | Margin (QP / PK) | Margin (AV) | Remark      |
|-------------|-----------|-------------------|--------------|-------------|------|------|-------------|------------------|-------------|-----------------|------------|------------------|-------------|-------------|
| [Hori/Vert] | [MHz]     | [dBuV]            | [dBuV]       | [dB/m]      | [dB] | [dB] | [dB]        | [dBuV/m]         | [dBuV/m]    | [dBuV/m]        | [dBuV/m]   | [dB]             | [dB]        |             |
| Hori.       | 5650.0    | 43.2              | -            | 32.3        | 3.8  | 32.4 | -           | 46.9             | -           | 68.2            | -          | 21.3             | -           |             |
| Hori.       | 5700.0    | 43.5              | -            | 32.5        | 3.8  | 32.4 | -           | 47.3             | -           | 105.2           | -          | 57.9             | -           |             |
| Hori.       | 5720.0    | 44.2              | -            | 32.5        | 3.8  | 32.4 | -           | 48.0             | -           | 110.8           | -          | 62.8             | -           |             |
| Hori.       | 5725.0    | 44.1              | -            | 32.5        | 3.8  | 32.4 | -           | 48.0             | -           | 122.2           | -          | 74.2             | -           |             |
| Hori.       | 5850.0    | 43.4              | -            | 32.8        | 3.9  | 32.5 | -           | 47.6             | -           | 122.2           | -          | 74.6             | -           |             |
| Hori.       | 5855.0    | 42.9              | -            | 32.8        | 3.9  | 32.5 | -           | 47.1             | -           | 110.8           | -          | 63.7             | -           |             |
| Hori.       | 5875.0    | 42.7              | -            | 32.8        | 3.9  | 32.5 | -           | 46.9             | -           | 105.2           | -          | 58.3             | -           |             |
| Hori.       | 5925.0    | 43.1              | -            | 32.8        | 3.9  | 32.5 | -           | 47.3             | -           | 68.2            | -          | 20.9             | -           | *1)         |
| Hori.       | 11530.0   | 45.2              | 35.5         | 37.4        | 6.3  | 36.7 | -           | 52.2             | 42.5        | 73.9            | 53.9       | 21.7             | 11.4        | Floor noise |
| Hori.       | 17295.0   | 47.5              | -            | 39.8        | 7.4  | 38.6 | -           | 56.1             | -           | 68.2            | -          | 12.1             | -           | Floor noise |
| Vert.       | 5650.0    | 43.2              | -            | 32.3        | 3.8  | 32.4 | -           | 46.8             | -           | 68.2            | -          | 21.4             | -           |             |
| Vert.       | 5700.0    | 44.5              | -            | 32.5        | 3.8  | 32.4 | -           | 48.3             | -           | 105.2           | -          | 56.9             | -           |             |
| Vert.       | 5720.0    | 47.0              | -            | 32.5        | 3.8  | 32.4 | -           | 50.9             | -           | 110.8           | -          | 60.0             | -           |             |
| Vert.       | 5725.0    | 48.1              | -            | 32.5        | 3.8  | 32.4 | -           | 52.0             | -           | 122.2           | -          | 70.2             | -           |             |
| Vert.       | 5850.0    | 43.0              | -            | 32.8        | 3.9  | 32.5 | -           | 47.1             | -           | 122.2           | -          | 75.1             | -           |             |
| Vert.       | 5855.0    | 43.4              | -            | 32.8        | 3.9  | 32.5 | -           | 47.6             | -           | 110.8           | -          | 63.3             | -           |             |
| Vert.       | 5875.0    | 43.0              | -            | 32.8        | 3.9  | 32.5 | -           | 47.2             | -           | 105.2           | -          | 58.0             | -           |             |
| Vert.       | 5925.0    | 44.4              | -            | 32.8        | 3.9  | 32.5 | -           | 48.6             | -           | 68.2            | -          | 19.6             | -           | *1)         |
| Vert.       | 11530.0   | 45.0              | 35.5         | 37.4        | 6.3  | 36.7 | -           | 52.0             | 42.5        | 73.9            | 53.9       | 21.9             | 11.4        | Floor noise |
| Vert.       | 17295.0   | 47.7              | -            | 39.8        | 7.4  | 38.6 | -           | 56.3             | -           | 68.2            | -          | 11.9             | -           | Floor noise |

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

\*QP detector was used up to 1GHz.

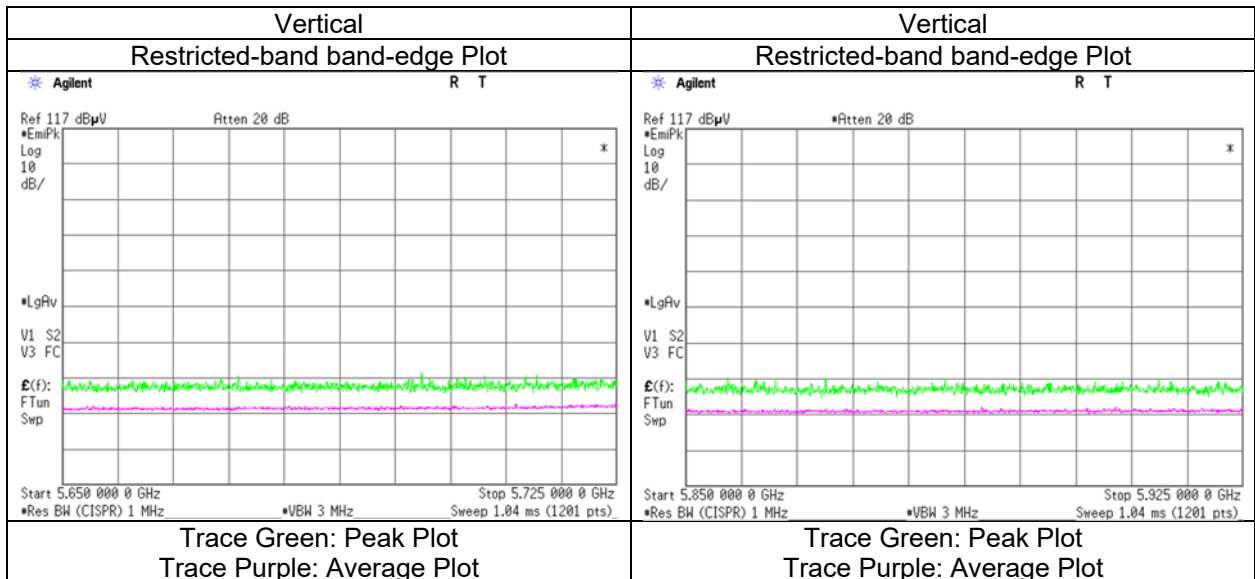
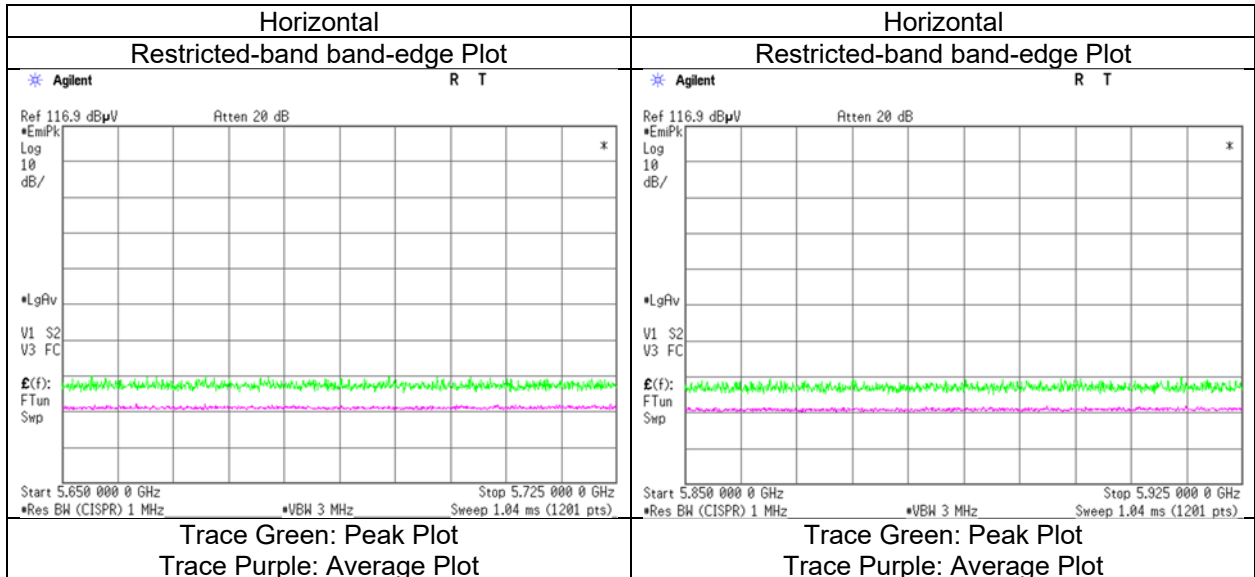
\*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

|      |                 |  |  |  |  |
|------|-----------------|--|--|--|--|
| Mode | Tx 11a 5765 MHz |  |  |  |  |
|------|-----------------|--|--|--|--|

| Date            | Test site | Temperature | Humidity | Engineer    | Measurement Range |
|-----------------|-----------|-------------|----------|-------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone | 1 GHz to 10 GHz   |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

|      |                    |
|------|--------------------|
| Mode | Tx 11n-20 5765 MHz |
|------|--------------------|

| Date            | Test site | Temperature | Humidity | Engineer         | Measurement Range |
|-----------------|-----------|-------------|----------|------------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone      | 1 GHz to 10 GHz   |
| October 5, 2025 | SAC2      | 24 deg. C   | 67 % RH  | Takafumi Noguchi | Above 10 GHz      |
| October 5, 2025 | SAC2      | 24 deg. C   | 65 % RH  | Junki Nagatomi   | Below 1 GHz       |

| Polarity    | Frequency | Reading<br>(QP / PK) | Reading<br>(AV) | Ant.<br>Factor | Loss | Gain | Duty<br>Factor | Result<br>(QP / PK) | Result<br>(AV) | Limit<br>(QP / PK) | Limit<br>(AV) | Margin<br>(QP / PK) | Margin<br>(AV) | Remark      |
|-------------|-----------|----------------------|-----------------|----------------|------|------|----------------|---------------------|----------------|--------------------|---------------|---------------------|----------------|-------------|
| [Hori/Vert] | [MHz]     | [dBuV]               | [dBuV]          | [dB/m]         | [dB] | [dB] | [dB]           | [dBuV/m]            | [dBuV/m]       | [dBuV/m]           | [dBuV/m]      | [dB]                | [dB]           |             |
| Hori.       | 83.0      | 35.0                 | -               | 7.4            | 7.3  | 28.5 | -              | 21.3                | -              | 40.0               | -             | 18.7                | -              |             |
| Hori.       | 87.7      | 30.0                 | -               | 8.3            | 7.4  | 28.5 | -              | 17.2                | -              | 40.0               | -             | 22.8                | -              |             |
| Hori.       | 323.2     | 32.0                 | -               | 14.4           | 8.9  | 27.9 | -              | 27.4                | -              | 46.0               | -             | 18.6                | -              |             |
| Hori.       | 926.3     | 28.9                 | -               | 21.9           | 11.4 | 28.8 | -              | 33.4                | -              | 46.0               | -             | 12.6                | -              |             |
| Hori.       | 975.0     | 28.9                 | -               | 22.1           | 11.6 | 28.7 | -              | 33.9                | -              | 53.9               | -             | 20.0                | -              |             |
| Hori.       | 1000.0    | 32.6                 | -               | 22.5           | 11.7 | 28.6 | -              | 38.2                | -              | 53.9               | -             | 15.7                | -              |             |
| Hori.       | 5650.0    | 44.0                 | -               | 32.3           | 3.8  | 32.4 | -              | 47.7                | -              | 68.2               | -             | 20.5                | -              |             |
| Hori.       | 5700.0    | 42.8                 | -               | 32.5           | 3.8  | 32.4 | -              | 46.6                | -              | 105.2              | -             | 58.6                | -              |             |
| Hori.       | 5720.0    | 43.8                 | -               | 32.5           | 3.8  | 32.4 | -              | 47.6                | -              | 110.8              | -             | 63.2                | -              |             |
| Hori.       | 5725.0    | 44.0                 | -               | 32.5           | 3.8  | 32.4 | -              | 47.9                | -              | 122.2              | -             | 74.3                | -              |             |
| Hori.       | 5850.0    | 43.4                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.6                | -              | 122.2              | -             | 74.7                | -              |             |
| Hori.       | 5855.0    | 43.5                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.7                | -              | 110.8              | -             | 63.1                | -              |             |
| Hori.       | 5875.0    | 43.6                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.8                | -              | 105.2              | -             | 57.4                | -              |             |
| Hori.       | 5925.0    | 43.3                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.5                | -              | 68.2               | -             | 20.7                | -              | *1)         |
| Hori.       | 11530.0   | 45.3                 | 35.5            | 37.4           | 6.3  | 36.7 | -              | 52.3                | 42.5           | 73.9               | 53.9          | 21.6                | 11.4           | Floor noise |
| Hori.       | 17295.0   | 47.5                 | -               | 39.8           | 7.4  | 38.6 | -              | 56.1                | -              | 68.2               | -             | 12.1                | -              | Floor noise |
| Vert.       | 82.9      | 32.2                 | -               | 7.4            | 7.3  | 28.5 | -              | 18.5                | -              | 40.0               | -             | 21.5                | -              |             |
| Vert.       | 581.6     | 31.2                 | -               | 18.6           | 10.2 | 29.3 | -              | 30.7                | -              | 46.0               | -             | 15.3                | -              |             |
| Vert.       | 600.0     | 30.0                 | -               | 19.3           | 10.3 | 29.3 | -              | 30.2                | -              | 46.0               | -             | 15.8                | -              |             |
| Vert.       | 926.2     | 31.9                 | -               | 21.9           | 11.4 | 28.8 | -              | 36.4                | -              | 46.0               | -             | 9.6                 | -              |             |
| Vert.       | 975.0     | 31.0                 | -               | 22.1           | 11.6 | 28.7 | -              | 36.0                | -              | 53.9               | -             | 17.9                | -              |             |
| Vert.       | 1000.0    | 36.4                 | -               | 22.5           | 11.7 | 28.6 | -              | 42.0                | -              | 53.9               | -             | 11.9                | -              |             |
| Vert.       | 5650.0    | 43.7                 | -               | 32.3           | 3.8  | 32.4 | -              | 47.4                | -              | 68.2               | -             | 20.8                | -              |             |
| Vert.       | 5700.0    | 43.6                 | -               | 32.5           | 3.8  | 32.4 | -              | 47.5                | -              | 105.2              | -             | 57.8                | -              |             |
| Vert.       | 5720.0    | 46.6                 | -               | 32.5           | 3.8  | 32.4 | -              | 50.5                | -              | 110.8              | -             | 60.4                | -              |             |
| Vert.       | 5725.0    | 46.1                 | -               | 32.5           | 3.8  | 32.4 | -              | 49.9                | -              | 122.2              | -             | 72.3                | -              |             |
| Vert.       | 5850.0    | 43.5                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.7                | -              | 122.2              | -             | 74.5                | -              |             |
| Vert.       | 5855.0    | 43.2                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.4                | -              | 110.8              | -             | 63.4                | -              |             |
| Vert.       | 5875.0    | 43.4                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.6                | -              | 105.2              | -             | 57.7                | -              |             |
| Vert.       | 5925.0    | 43.3                 | -               | 32.8           | 3.9  | 32.5 | -              | 47.5                | -              | 68.2               | -             | 20.7                | -              | *1)         |
| Vert.       | 11530.0   | 45.3                 | 35.5            | 37.4           | 6.3  | 36.7 | -              | 52.3                | 42.5           | 73.9               | 53.9          | 21.6                | 11.4           | Floor noise |
| Vert.       | 17295.0   | 47.7                 | -               | 39.8           | 7.4  | 38.6 | -              | 56.3                | -              | 68.2               | -             | 11.9                | -              | Floor noise |

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

\*QP detector was used up to 1GHz.

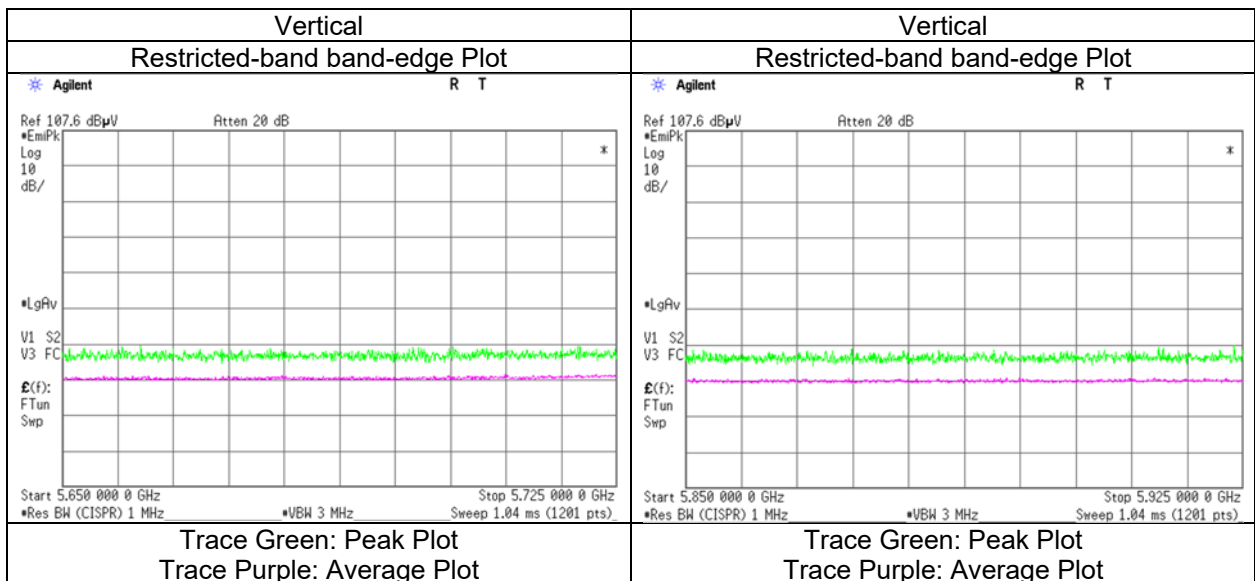
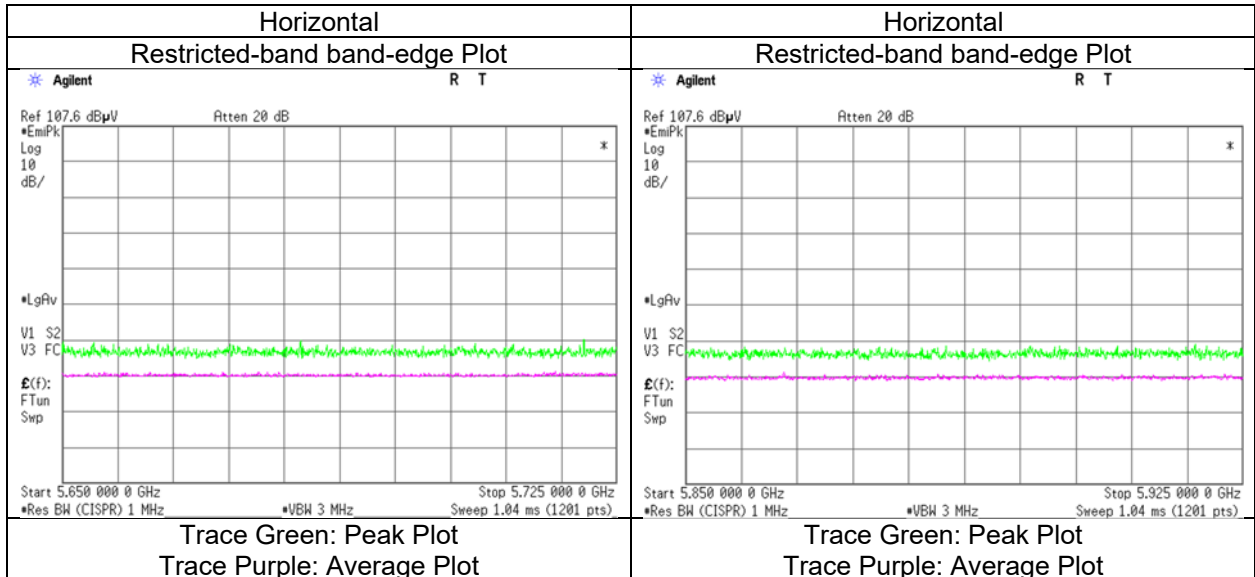
\*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

|      |                    |  |  |  |  |
|------|--------------------|--|--|--|--|
| Mode | Tx 11n-20 5765 MHz |  |  |  |  |
|------|--------------------|--|--|--|--|

| Date            | Test site | Temperature | Humidity | Engineer    | Measurement Range |
|-----------------|-----------|-------------|----------|-------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone | 1 GHz to 10 GHz   |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

|      |                     |
|------|---------------------|
| Mode | Tx 11ac-20 5765 MHz |
|------|---------------------|

| Date            | Test site | Temperature | Humidity | Engineer         | Measurement Range |
|-----------------|-----------|-------------|----------|------------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone      | 1 GHz to 10 GHz   |
| October 5, 2025 | SAC2      | 24 deg. C   | 67 % RH  | Takafumi Noguchi | Above 10 GHz      |

| Polarity    | Frequency | Reading (QP / PK) | Reading (AV) | Ant. Factor | Loss | Gain | Duty Factor | Result (QP / PK) | Result (AV) | Limit (QP / PK) | Limit (AV) | Margin (QP / PK) | Margin (AV) | Remark      |
|-------------|-----------|-------------------|--------------|-------------|------|------|-------------|------------------|-------------|-----------------|------------|------------------|-------------|-------------|
| [Hori/Vert] | [MHz]     | [dBuV]            | [dBuV]       | [dB/m]      | [dB] | [dB] | [dB]        | [dBuV/m]         | [dBuV/m]    | [dBuV/m]        | [dBuV/m]   | [dB]             | [dB]        |             |
| Hori.       | 5650.0    | 43.0              | -            | 32.3        | 3.8  | 32.4 | -           | 46.6             | -           | 68.2            | -          | 21.6             | -           |             |
| Hori.       | 5700.0    | 42.7              | -            | 32.5        | 3.8  | 32.4 | -           | 46.6             | -           | 105.2           | -          | 58.6             | -           |             |
| Hori.       | 5720.0    | 43.8              | -            | 32.5        | 3.8  | 32.4 | -           | 47.7             | -           | 110.8           | -          | 63.1             | -           |             |
| Hori.       | 5725.0    | 43.6              | -            | 32.5        | 3.8  | 32.4 | -           | 47.5             | -           | 122.2           | -          | 74.7             | -           |             |
| Hori.       | 5850.0    | 43.6              | -            | 32.8        | 3.9  | 32.5 | -           | 47.8             | -           | 122.2           | -          | 74.4             | -           |             |
| Hori.       | 5855.0    | 43.1              | -            | 32.8        | 3.9  | 32.5 | -           | 47.2             | -           | 110.8           | -          | 63.6             | -           |             |
| Hori.       | 5875.0    | 43.1              | -            | 32.8        | 3.9  | 32.5 | -           | 47.3             | -           | 105.2           | -          | 57.9             | -           |             |
| Hori.       | 5925.0    | 43.0              | -            | 32.8        | 3.9  | 32.5 | -           | 47.2             | -           | 68.2            | -          | 21.0             | -           | *1)         |
| Hori.       | 11530.0   | 45.3              | 35.5         | 37.4        | 6.3  | 36.7 | -           | 52.3             | 42.5        | 73.9            | 53.9       | 21.6             | 11.4        | Floor noise |
| Hori.       | 17295.0   | 47.6              | -            | 39.8        | 7.4  | 38.6 | -           | 56.2             | -           | 68.2            | -          | 12.0             | -           | Floor noise |
| Vert.       | 5650.0    | 43.2              | -            | 32.3        | 3.8  | 32.4 | -           | 46.8             | -           | 68.2            | -          | 21.4             | -           |             |
| Vert.       | 5700.0    | 44.6              | -            | 32.5        | 3.8  | 32.4 | -           | 48.4             | -           | 105.2           | -          | 56.8             | -           |             |
| Vert.       | 5720.0    | 46.7              | -            | 32.5        | 3.8  | 32.4 | -           | 50.6             | -           | 110.8           | -          | 60.2             | -           |             |
| Vert.       | 5725.0    | 46.8              | -            | 32.5        | 3.8  | 32.4 | -           | 50.7             | -           | 122.2           | -          | 71.5             | -           |             |
| Vert.       | 5850.0    | 43.6              | -            | 32.8        | 3.9  | 32.5 | -           | 47.8             | -           | 122.2           | -          | 74.4             | -           |             |
| Vert.       | 5855.0    | 42.6              | -            | 32.8        | 3.9  | 32.5 | -           | 46.8             | -           | 110.8           | -          | 64.0             | -           |             |
| Vert.       | 5875.0    | 42.8              | -            | 32.8        | 3.9  | 32.5 | -           | 47.0             | -           | 105.2           | -          | 58.2             | -           |             |
| Vert.       | 5925.0    | 43.8              | -            | 32.8        | 3.9  | 32.5 | -           | 48.0             | -           | 68.2            | -          | 20.2             | -           | *1)         |
| Vert.       | 11530.0   | 45.2              | 35.5         | 37.4        | 6.3  | 36.7 | -           | 52.2             | 42.5        | 73.9            | 53.9       | 21.7             | 11.4        | Floor noise |
| Vert.       | 17295.0   | 47.6              | -            | 39.8        | 7.4  | 38.6 | -           | 56.2             | -           | 68.2            | -          | 12.0             | -           | Floor noise |

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

\*QP detector was used up to 1GHz.

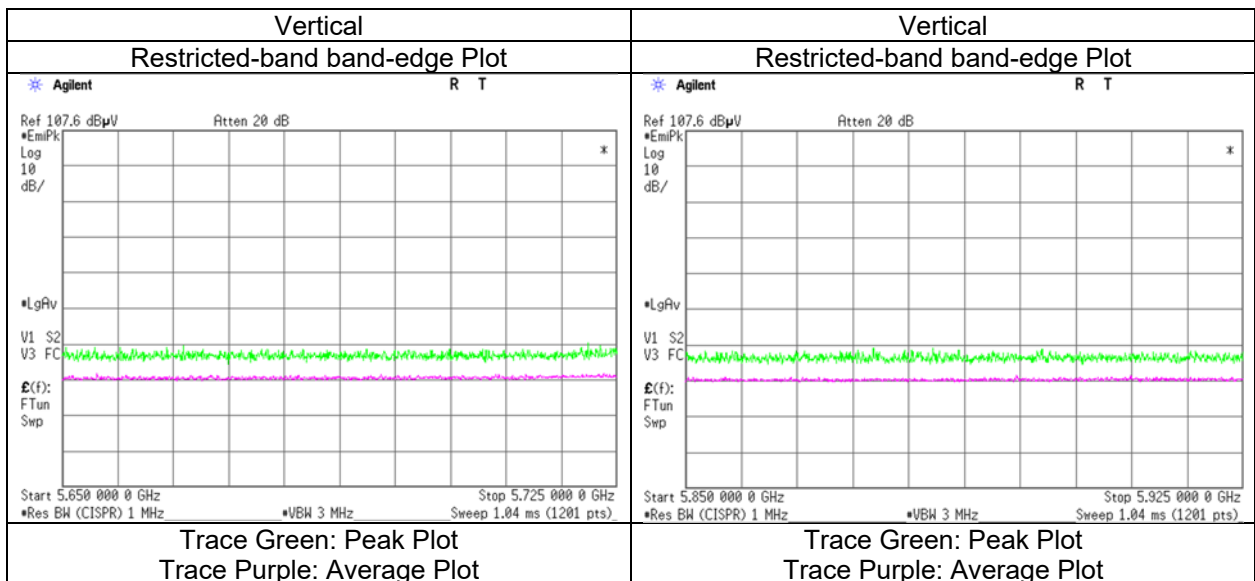
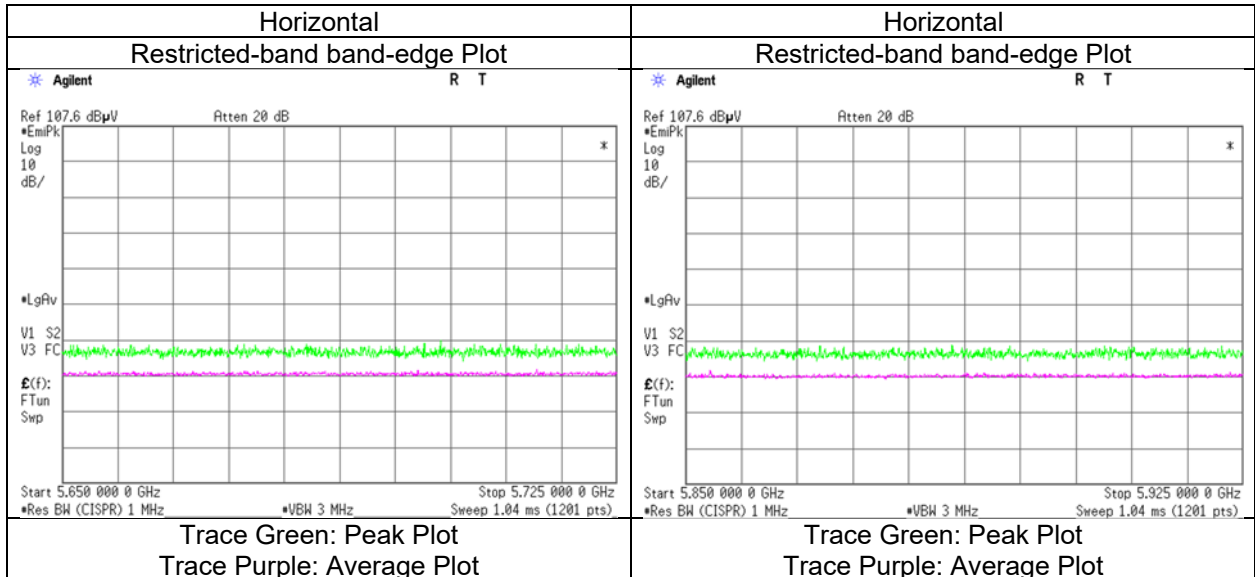
\*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

|      |                     |  |  |  |  |
|------|---------------------|--|--|--|--|
| Mode | Tx 11ac-20 5765 MHz |  |  |  |  |
|------|---------------------|--|--|--|--|

| Date            | Test site | Temperature | Humidity | Engineer    | Measurement Range |
|-----------------|-----------|-------------|----------|-------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone | 1 GHz to 10 GHz   |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

|      |                     |
|------|---------------------|
| Mode | Tx 11ac-40 5755 MHz |
|------|---------------------|

| Date            | Test site | Temperature | Humidity | Engineer         | Measurement Range |
|-----------------|-----------|-------------|----------|------------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone      | 1 GHz to 10 GHz   |
| October 5, 2025 | SAC2      | 24 deg. C   | 67 % RH  | Takafumi Noguchi | Above 10 GHz      |

| Polarity    | Frequency | Reading (QP / PK) | Reading (AV) | Ant. Factor | Loss | Gain | Duty Factor | Result (QP / PK) | Result (AV) | Limit (QP / PK) | Limit (AV) | Margin (QP / PK) | Margin (AV) | Remark      |
|-------------|-----------|-------------------|--------------|-------------|------|------|-------------|------------------|-------------|-----------------|------------|------------------|-------------|-------------|
| [Hori/Vert] | [MHz]     | [dBuV]            | [dBuV]       | [dB/m]      | [dB] | [dB] | [dB]        | [dBuV/m]         | [dBuV/m]    | [dBuV/m]        | [dBuV/m]   | [dB]             | [dB]        |             |
| Hori.       | 5650.0    | 43.4              | -            | 32.3        | 3.8  | 32.4 | -           | 47.1             | -           | 68.2            | -          | 21.2             | -           |             |
| Hori.       | 5700.0    | 43.3              | -            | 32.5        | 3.8  | 32.4 | -           | 47.2             | -           | 105.2           | -          | 58.0             | -           |             |
| Hori.       | 5720.0    | 44.2              | -            | 32.5        | 3.8  | 32.4 | -           | 48.0             | -           | 110.8           | -          | 62.8             | -           |             |
| Hori.       | 5725.0    | 44.7              | -            | 32.5        | 3.8  | 32.4 | -           | 48.6             | -           | 122.2           | -          | 73.6             | -           |             |
| Hori.       | 5850.0    | 44.0              | -            | 32.8        | 3.9  | 32.5 | -           | 48.2             | -           | 122.2           | -          | 74.0             | -           |             |
| Hori.       | 5855.0    | 43.7              | -            | 32.8        | 3.9  | 32.5 | -           | 47.9             | -           | 110.8           | -          | 62.9             | -           |             |
| Hori.       | 5875.0    | 43.1              | -            | 32.8        | 3.9  | 32.5 | -           | 47.3             | -           | 105.2           | -          | 57.9             | -           |             |
| Hori.       | 5925.0    | 43.3              | -            | 32.8        | 3.9  | 32.5 | -           | 47.5             | -           | 68.2            | -          | 20.7             | -           | *1)         |
| Hori.       | 11510.0   | 45.4              | 35.6         | 37.5        | 6.3  | 36.7 | -           | 52.4             | 42.6        | 73.9            | 53.9       | 21.5             | 11.3        | Floor noise |
| Hori.       | 17265.0   | 47.9              | -            | 39.8        | 7.4  | 38.6 | -           | 56.5             | -           | 68.2            | -          | 11.7             | -           | Floor noise |
| Vert.       | 5650.0    | 45.0              | -            | 32.3        | 3.8  | 32.4 | -           | 48.7             | -           | 68.2            | -          | 19.5             | -           |             |
| Vert.       | 5700.0    | 47.2              | -            | 32.5        | 3.8  | 32.4 | -           | 51.1             | -           | 105.2           | -          | 54.1             | -           |             |
| Vert.       | 5720.0    | 46.8              | -            | 32.5        | 3.8  | 32.4 | -           | 50.7             | -           | 110.8           | -          | 60.1             | -           |             |
| Vert.       | 5725.0    | 46.7              | -            | 32.5        | 3.8  | 32.4 | -           | 50.6             | -           | 122.2           | -          | 71.6             | -           |             |
| Vert.       | 5850.0    | 43.4              | -            | 32.8        | 3.9  | 32.5 | -           | 47.5             | -           | 122.2           | -          | 74.7             | -           |             |
| Vert.       | 5855.0    | 42.9              | -            | 32.8        | 3.9  | 32.5 | -           | 47.0             | -           | 110.8           | -          | 63.8             | -           |             |
| Vert.       | 5875.0    | 43.4              | -            | 32.8        | 3.9  | 32.5 | -           | 47.6             | -           | 105.2           | -          | 57.6             | -           |             |
| Vert.       | 5925.0    | 43.9              | -            | 32.8        | 3.9  | 32.5 | -           | 48.1             | -           | 68.2            | -          | 20.1             | -           | *1)         |
| Vert.       | 11510.0   | 45.5              | 35.5         | 37.5        | 6.3  | 36.7 | -           | 52.5             | 42.5        | 73.9            | 53.9       | 21.4             | 11.4        | Floor noise |
| Vert.       | 17265.0   | 47.9              | -            | 39.8        | 7.4  | 38.6 | -           | 56.5             | -           | 68.2            | -          | 11.7             | -           | Floor noise |

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

\*QP detector was used up to 1GHz.

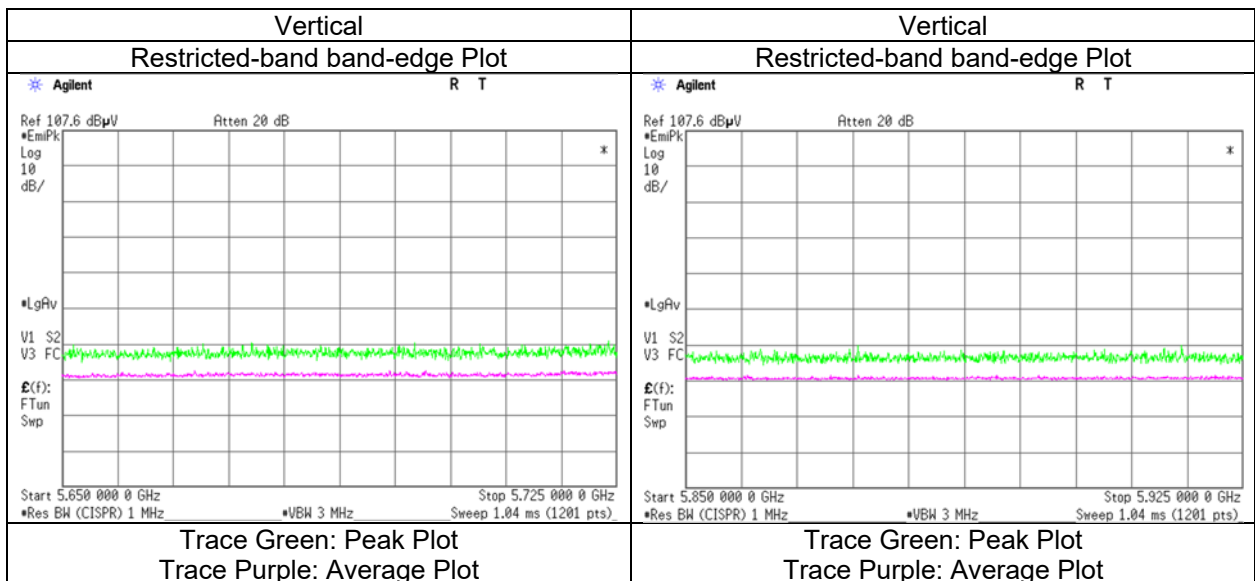
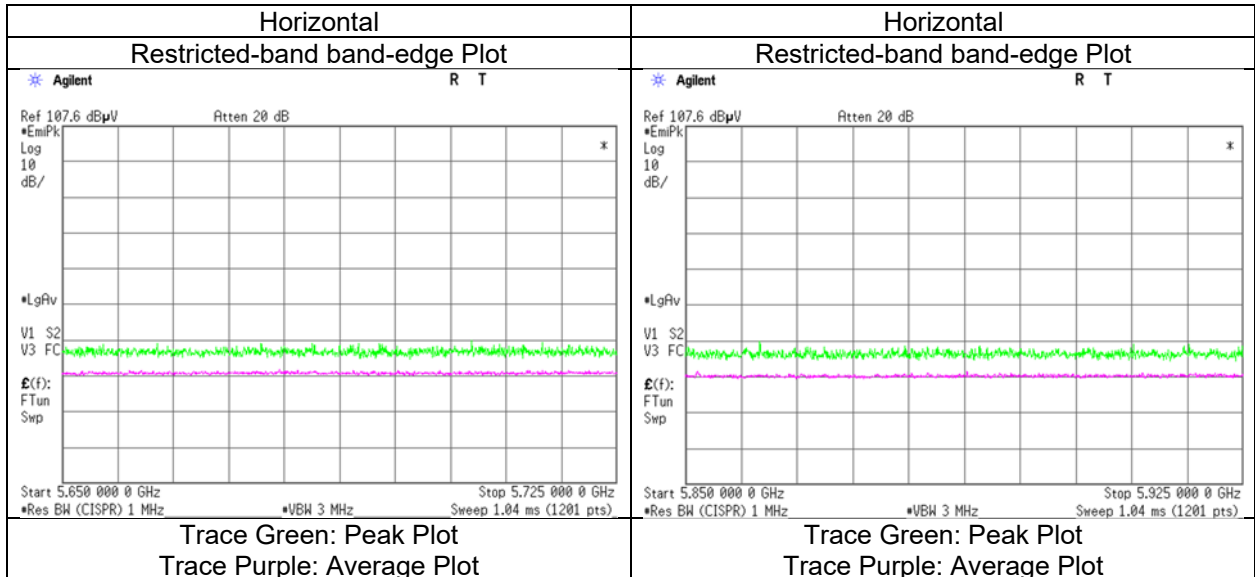
\*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

|      |                     |  |  |  |  |
|------|---------------------|--|--|--|--|
| Mode | Tx 11ac-40 5755 MHz |  |  |  |  |
|------|---------------------|--|--|--|--|

| Date            | Test site | Temperature | Humidity | Engineer    | Measurement Range |
|-----------------|-----------|-------------|----------|-------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone | 1 GHz to 10 GHz   |



\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.  
Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

|      |                     |
|------|---------------------|
| Mode | Tx 11ac-80 5775 MHz |
|------|---------------------|

| Date            | Test site | Temperature | Humidity | Engineer         | Measurement Range |
|-----------------|-----------|-------------|----------|------------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone      | 1 GHz to 10 GHz   |
| October 5, 2025 | SAC2      | 24 deg. C   | 67 % RH  | Takafumi Noguchi | Above 10 GHz      |

| Polarity    | Frequency | Reading (QP / PK) | Reading (AV) | Ant. Factor | Loss | Gain | Duty Factor | Result (QP / PK) | Result (AV) | Limit (QP / PK) | Limit (AV) | Margin (QP / PK) | Margin (AV) | Remark      |
|-------------|-----------|-------------------|--------------|-------------|------|------|-------------|------------------|-------------|-----------------|------------|------------------|-------------|-------------|
| [Hori/Vert] | [MHz]     | [dBuV]            | [dBuV]       | [dB/m]      | [dB] | [dB] | [dB]        | [dBuV/m]         | [dBuV/m]    | [dBuV/m]        | [dBuV/m]   | [dB]             | [dB]        |             |
| Hori.       | 5650.0    | 43.6              | -            | 32.3        | 3.8  | 32.4 | -           | 47.2             | -           | 68.2            | -          | 21.0             | -           |             |
| Hori.       | 5700.0    | 45.0              | -            | 32.5        | 3.8  | 32.4 | -           | 48.8             | -           | 105.2           | -          | 56.4             | -           |             |
| Hori.       | 5720.0    | 46.2              | -            | 32.5        | 3.8  | 32.4 | -           | 50.1             | -           | 110.8           | -          | 60.8             | -           |             |
| Hori.       | 5725.0    | 44.9              | -            | 32.5        | 3.8  | 32.4 | -           | 48.8             | -           | 122.2           | -          | 73.4             | -           |             |
| Hori.       | 5850.0    | 43.9              | -            | 32.8        | 3.9  | 32.5 | -           | 48.1             | -           | 122.2           | -          | 74.1             | -           |             |
| Hori.       | 5855.0    | 43.6              | -            | 32.8        | 3.9  | 32.5 | -           | 47.8             | -           | 110.8           | -          | 63.0             | -           |             |
| Hori.       | 5875.0    | 43.3              | -            | 32.8        | 3.9  | 32.5 | -           | 47.5             | -           | 105.2           | -          | 57.7             | -           |             |
| Hori.       | 5925.0    | 43.5              | -            | 32.8        | 3.9  | 32.5 | -           | 47.7             | -           | 68.2            | -          | 20.5             | -           | *1)         |
| Hori.       | 11550.0   | 44.7              | 35.3         | 37.4        | 6.3  | 36.7 | -           | 51.7             | 42.3        | 73.9            | 53.9       | 22.2             | 11.6        | Floor noise |
| Hori.       | 17325.0   | 47.5              | -            | 39.9        | 7.4  | 38.6 | -           | 56.2             | -           | 68.2            | -          | 12.1             | -           | Floor noise |
| Vert.       | 5650.0    | 45.7              | -            | 32.3        | 3.8  | 32.4 | -           | 49.3             | -           | 68.2            | -          | 18.9             | -           |             |
| Vert.       | 5700.0    | 47.0              | -            | 32.5        | 3.8  | 32.4 | -           | 50.8             | -           | 105.2           | -          | 54.4             | -           |             |
| Vert.       | 5720.0    | 48.7              | -            | 32.5        | 3.8  | 32.4 | -           | 52.5             | -           | 110.8           | -          | 58.3             | -           |             |
| Vert.       | 5725.0    | 47.3              | -            | 32.5        | 3.8  | 32.4 | -           | 51.2             | -           | 122.2           | -          | 71.0             | -           |             |
| Vert.       | 5850.0    | 44.2              | -            | 32.8        | 3.9  | 32.5 | -           | 48.4             | -           | 122.2           | -          | 73.9             | -           |             |
| Vert.       | 5855.0    | 43.2              | -            | 32.8        | 3.9  | 32.5 | -           | 47.4             | -           | 110.8           | -          | 63.4             | -           |             |
| Vert.       | 5875.0    | 43.4              | -            | 32.8        | 3.9  | 32.5 | -           | 47.6             | -           | 105.2           | -          | 57.6             | -           |             |
| Vert.       | 5925.0    | 43.3              | -            | 32.8        | 3.9  | 32.5 | -           | 47.5             | -           | 68.2            | -          | 20.7             | -           | *1)         |
| Vert.       | 11550.0   | 44.6              | 35.2         | 37.4        | 6.3  | 36.7 | -           | 51.6             | 42.2        | 73.9            | 53.9       | 22.3             | 11.7        | Floor noise |
| Vert.       | 17325.0   | 47.4              | -            | 39.9        | 7.4  | 38.6 | -           | 56.1             | -           | 68.2            | -          | 12.2             | -           | Floor noise |

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

\*QP detector was used up to 1GHz.

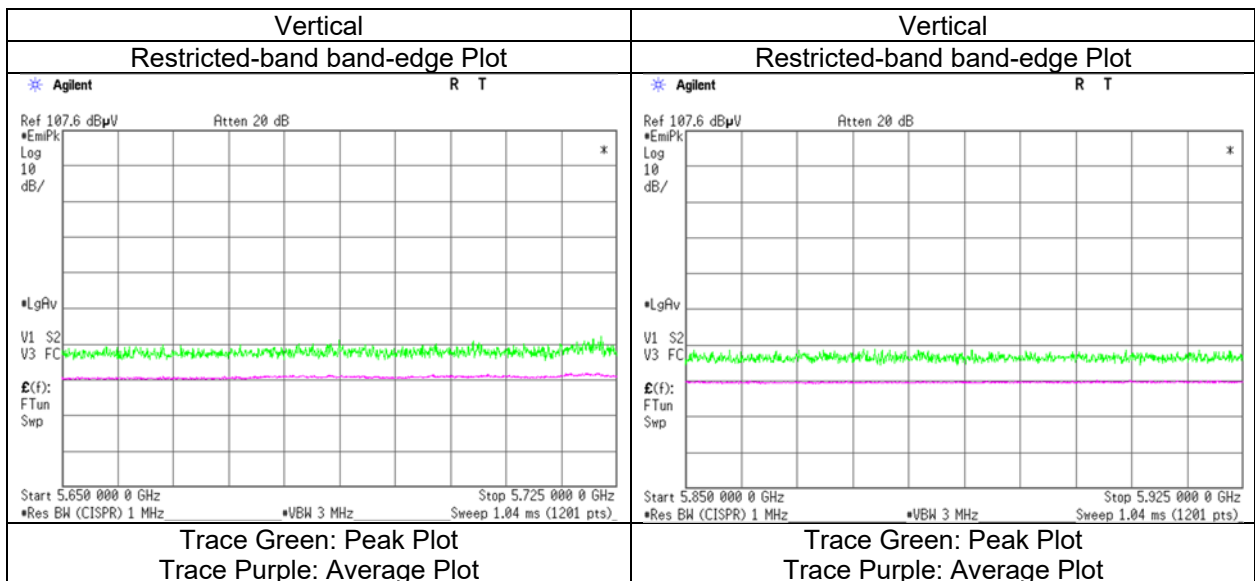
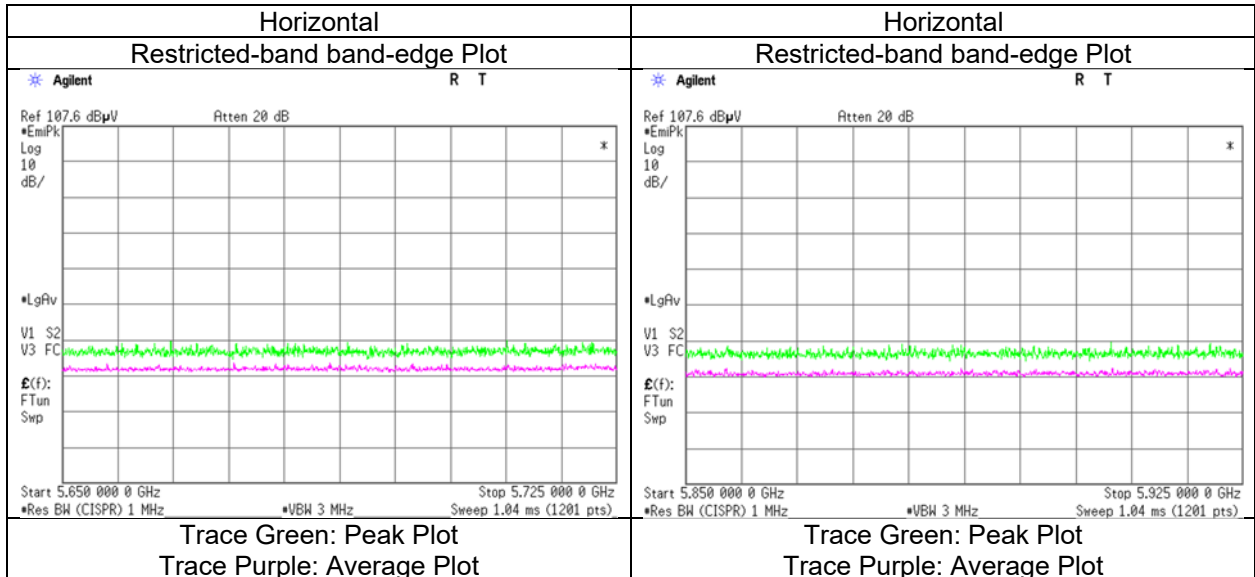
\*1) Not Out of Band emission(Leakage Power)

Distance factor: 18 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

|      |                     |  |  |  |  |
|------|---------------------|--|--|--|--|
| Mode | Tx 11ac-80 5775 MHz |  |  |  |  |
|------|---------------------|--|--|--|--|

| Date            | Test site | Temperature | Humidity | Engineer    | Measurement Range |
|-----------------|-----------|-------------|----------|-------------|-------------------|
| October 1, 2025 | SAC2      | 21 deg. C   | 65 % RH  | Tomoya Sone | 1 GHz to 10 GHz   |



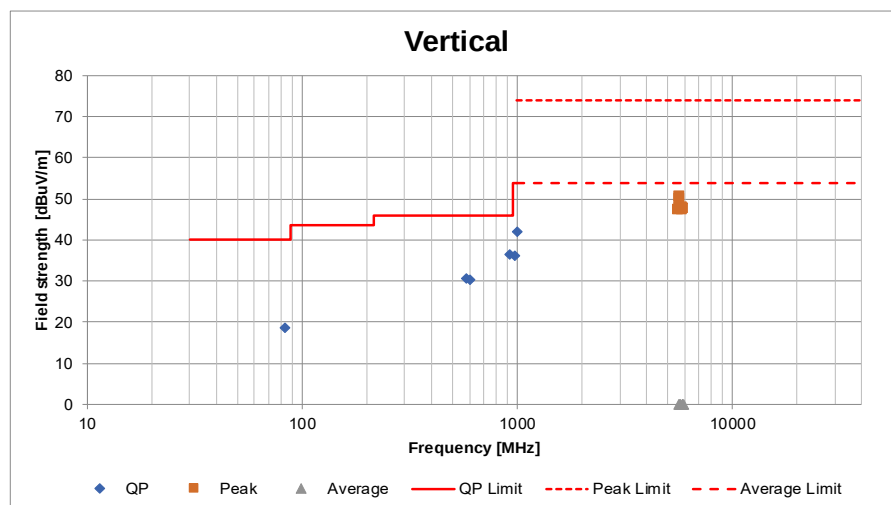
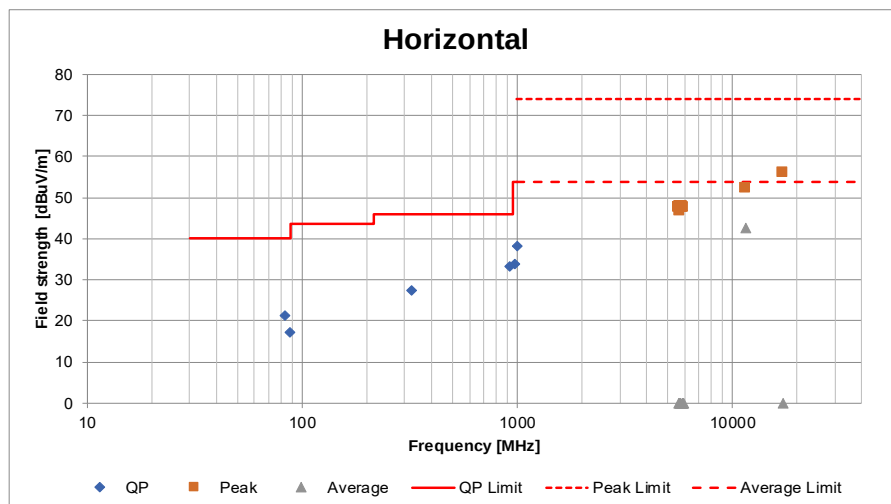
\* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

(Plot data, Worst case mode for Maximum Conducted Output Power)

| Mode            | Tx 11n-20 5765 MHz |             |          |                  |                   |
|-----------------|--------------------|-------------|----------|------------------|-------------------|
| Date            | Test site          | Temperature | Humidity | Engineer         | Measurement Range |
| October 1, 2025 | SAC2               | 21 deg. C   | 65 % RH  | Tomoya Sone      | 1 GHz to 10 GHz   |
| October 5, 2025 | SAC2               | 24 deg. C   | 67 % RH  | Takafumi Noguchi | Above 10 GHz      |
| October 5, 2025 | SAC2               | 24 deg. C   | 65 % RH  | Junki Nagatomi   | Below 1 GHz       |

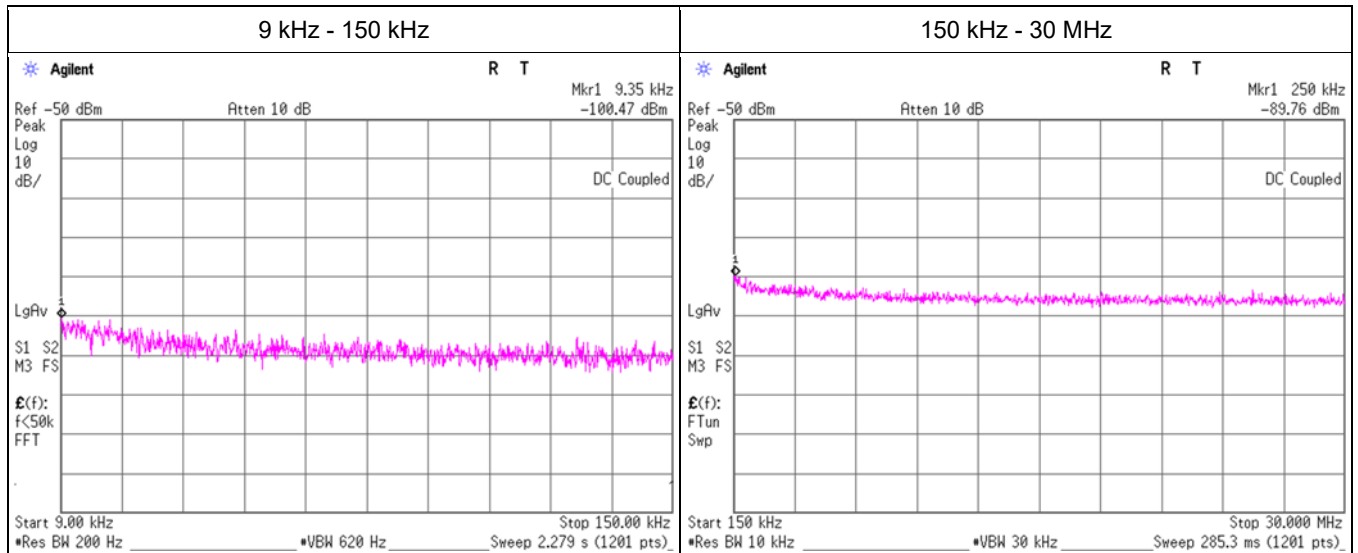


\*These plots data contains sufficient number to show the trend of characteristic features for EUT.

## Conducted Spurious Emission

|      |            |
|------|------------|
| Mode | Tx 11n-20, |
|------|------------|

|                  |           |             |          |                  |
|------------------|-----------|-------------|----------|------------------|
| Date             | Test Site | Temperature | Humidity | Engineer         |
| October 03, 2025 | MR8       | 22 deg.C    | 64 %RH   | Takafumi Noguchi |



| Freq.   | Reading | Cable Loss | Atten. Loss | Antenna Gain * | N (Number of Output) | EIRP  | Distance | Ground bounce | E (field strength) | Limit    | Margin | Remark |
|---------|---------|------------|-------------|----------------|----------------------|-------|----------|---------------|--------------------|----------|--------|--------|
| [kHz]   | [dBm]   | [dB]       | [dB]        | [dBi]          |                      | [dBm] | [m]      | [dB]          | [dBuV/m]           | [dBuV/m] | [dB]   |        |
| 9.350   | -100.47 | 1.12       | 9.83        | 2.00           | 1.00                 | -87.5 | 300      | 6.0           | -26.3              | 48.1     | 74.4   | -      |
| 250.000 | -89.76  | 1.13       | 9.84        | 2.00           | 1.00                 | -76.8 | 300      | 6.0           | -15.5              | 19.6     | 35.1   | -      |

$E \text{ [dBuV/m]} = \text{EIRP [dBm]} - 20 \log (\text{Distance [m]}) + \text{Ground bounce [dB]} + 104.8 \text{ [dBuV/m]}$

$\text{EIRP [dBm]} = \text{Reading [dBm]} + \text{Cable loss [dB]} + \text{Attenuator Loss [dB]} + \text{Antenna gain [dBi]} + 10 * \log (N)$

N: Number of output

\*2.0 dBi was applied to the test result based on ANSI C63.10 since antenna gain was less than 2.0 dBi.

## APPENDIX 2: Test Instruments

### Test Equipment

| Test Item | LIMS ID | Description                      | Manufacturer                          | Model                                       | Serial                    | Last Calibration Date | Cal Int |
|-----------|---------|----------------------------------|---------------------------------------|---------------------------------------------|---------------------------|-----------------------|---------|
| RE        | 141265  | Logperiodic Antenna(200-1000MHz) | Schwarzbeck Mess-Elektronik OHG       | VUSLP9111B                                  | 9111B-190                 | 07/22/2025            | 12      |
| RE        | 141317  | Coaxial Cable                    | UL-ISE                                | -                                           | -                         | 09/29/2025            | 12      |
| RE        | 141427  | Biconical Antenna                | Schwarzbeck Mess-Elektronik OHG       | VHA9103B+BBA9106                            | 08031                     | 07/22/2025            | 12      |
| RE        | 141503  | Horn Antenna 18-26.5GHz          | EMCO                                  | 3160-09                                     | 1265                      | 06/18/2025            | 12      |
| RE        | 141508  | Horn Antenna 1-18GHz             | Schwarzbeck Mess-Elektronik OHG       | BBHA9120D                                   | 557                       | 05/20/2025            | 12      |
| RE        | 141517  | Horn Antenna 26.5-40GHz          | ETS-Lindgren                          | 3160-10                                     | 152399                    | 11/11/2024            | 12      |
| RE        | 141542  | Digital Tester                   | Fluke Corporation                     | FLUKE 26-3                                  | 78030611                  | 08/01/2025            | 12      |
| RE        | 141588  | Pre Amplifier                    | L3 Narda-MITEQ                        | AMF-6F-2600400-33-8P / AMF-4F-2600400-33-8P | 1871355 /1871328          | 01/23/2025            | 12      |
| RE        | 141594  | Pre Amplifier                    | Keysight Technologies Inc             | 8447D                                       | 2944A10150                | 02/19/2025            | 12      |
| RE        | 141884  | Spectrum Analyzer                | Keysight Technologies Inc             | E4448A                                      | MY44020357                | 05/15/2025            | 12      |
| RE        | 141950  | EMI Test Receiver                | Rohde & Schwarz                       | ESU26                                       | 100412                    | 11/28/2024            | 12      |
| RE        | 142004  | AC2_Semi Anechoic Chamber(NSA)   | TDK                                   | Semi Anechoic Chamber 3m                    | DA-06902                  | 07/08/2025            | 24      |
| RE        | 142006  | AC2_Semi Anechoic Chamber(SVSWR) | TDK                                   | Semi Anechoic Chamber 3m                    | DA-06902                  | 04/21/2025            | 24      |
| RE        | 142228  | Measure, Tape, Steel             | KOMELON                               | KMC-36                                      | -                         | -                     | -       |
| RE        | 160324  | Coaxial Cable                    | Huber+Suhner                          | SUCOFLEX 102A                               | MY009/2A                  | 10/25/2024            | 12      |
| RE        | 178648  | EMI measurement program          | TSJ (Techno Science Japan)            | TEPTO-DV                                    | -                         | -                     | -       |
| RE        | 225532  | High Pass Filter 8-24.5GHz       | TSJ (Techno Science Japan)            | SCHPF-8000/T4125-O/O                        | 1504C                     | 11/22/2024            | 12      |
| RE        | 237927  | Broadband Amplifier              | ERAVANT                               | SBB-0115033218-2F2F-E3                      | 27554-01                  | 07/02/2025            | 12      |
| RE        | 238713  | Double Ridge Horn Antenna        | Schwarzbeck Mess-Elektronik OHG       | BBHA 9120 C                                 | 688                       | 09/17/2025            | 12      |
| RE        | 244707  | Thermo-Hygrometer                | HIOKI E. E. CORPORATION               | LR5001                                      | 231202102                 | 01/19/2025            | 12      |
| RE        | 252663  | Microwave Cable                  | Huber+Suhner                          | SF126E/11PC35/11PC35/1000MM, 5000MM         | 616276/126E / 616275/126E | 09/03/2025            | 12      |
| RE        | 253739  | Pre Amplifier                    | Keysight Technologies Inc             | 8449B                                       | 3008A01919                | 10/23/2024            | 12      |
| RE        | 266727  | Attenuator                       | Huber+Suhner                          | 6806 N-50-1                                 | 40701613                  | 07/09/2025            | 12      |
| AT        | 141156  | Attenuator(10dB)                 | Weinschel Corp                        | 2                                           | BL1173                    | 11/11/2024            | 12      |
| AT        | 141269  | Attenuator(10dB) 1-18GHz         | Orient Microwave                      | BX10-0476-00                                | -                         | 03/03/2025            | 12      |
| AT        | 141377  | Microwave Cable 1G-40GHz         | Suhner                                | SUCOFLEX102                                 | 30819/2                   | 05/12/2025            | 12      |
| AT        | 141557  | DIGITAL HiTESTER                 | HIOKI E. E. CORPORATION               | 3805                                        | 070900530                 | 01/15/2025            | 12      |
| AT        | 141813  | Power Meter                      | Raditeq (Formerly DARE!! Instruments) | RPR3006W                                    | 14I00048SNO081            | 10/24/2024            | 12      |
| AT        | 141884  | Spectrum Analyzer                | Keysight Technologies Inc             | E4448A                                      | MY44020357                | 2025/05/15            | 12      |
| AT        | 141903  | Spectrum Analyzer                | Keysight Technologies Inc             | E4440A                                      | MY46186390                | 01/30/2025            | 12      |
| AT        | 244711  | Thermo-Hygrometer                | HIOKI E. E. CORPORATION               | LR5001                                      | 231202105                 | 01/19/2025            | 12      |
| AT        | 263296  | Coaxial Cable                    | GigaLane Co., Ltd                     | G03SMC005-GUL200HT-G03SMC005-2000mm         | #001                      | 05/20/2025            | 12      |

\*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

AT: Antenna Terminal Conducted test

RE: Radiated Emission