



RADIO TEST REPORT

Test Report No.: 14614315H-C

Customer	Sony Interactive Entertainment Inc.
Description of EUT	Wireless communication module
Model Number of EUT	AW-XM501
FCC ID	AK8M20DAL1
Test Regulation	FCC Part 15 Subpart E
Test Result	Complied (Refer to SECTION 3)
Issue Date	February 17, 2023
Remarks	WLAN (5 GHz band) part, For Permissive change, Radiated Spurious Emission test only

Representative Test Engineer

Hiroki Numata
Engineer

Approved By

Takayuki Shimada
Leader



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".

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 21.0

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- The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan, Inc. has been accredited.
- The information provided from the customer for this report is identified in Section 1.
- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

REVISION HISTORY

Original Test Report No.: 14614315H-C

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	14614315H-C	February 17, 2023	-

Reference: Abbreviations (Including words undescribed in this report)

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

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SECTION 1: Customer Information

Company Name	Sony Interactive Entertainment Inc.
Brand Name	SONY
Address	1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan
Telephone Number	+81-50-3807-5639
Contact Person	Miho Nakamura

The information provided from 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
- * The laboratory is exempted from liability of any test results affected from the above information in SECTION 2 and 4.

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Wireless communication module
Model Number	AW-XM501
Serial Number	Refer to SECTION 4.2
Condition	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	December 13, 2022
Test Date	January 18 to 24, 2023

2.2 Product Description

General Specification

Rating	DC 3.3 V, DC 1.8 V
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Radio Specification

WLAN (IEEE802.11b/11g/11n-20/11ax-20)

Equipment Type	Transceiver	
Frequency of Operation	2412 MHz to 2462 MHz	
Type of Modulation	DSSS, OFDM	
	OFDMA (IEEE802.11ax only)	20 MHz: 26/52/106/242-tone RU
Bandwidth & Channel spacing	Less than 20 MHz & 5 MHz	
Method of frequency generation	Synthesizer	
Antenna Type	PIFA	
Antenna Gain: G_{ANT}	Antenna 1: 4.0 dBi Antenna 2: 4.5 dBi	
Directional Gain *1)	7.26 dBi	
Maximum clock frequency	320 MHz	

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

Equipment Type	Transceiver	
Frequency of Operation	20 M Band: 5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5720 MHz 5745 MHz to 5825 MHz	
	40 M Band: 5190 MHz to 5230 MHz 5270 MHz to 5310 MHz 5510 MHz to 5710 MHz 5755 MHz to 5795 MHz	
	80 M Band: 5210 MHz 5290 MHz 5530 MHz to 5690 MHz 5775 MHz	
Type of Modulation	OFDM	
	OFDMA (IEEE802.11ax only)	20 MHz: 26/52/106/242-tone RU 40 MHz: 26/52/106/242/484-tone RU 80 MHz: 26/52/106/242/484/996-tone RU
Bandwidth & Channel spacing	Less than 20 MHz / 40 MHz / 80 MHz & 20 MHz / 40 MHz / 80 MHz	
Method of frequency generation	Synthesizer	
Antenna Type	PIFA	IFA
Antenna Gain: G_{ANT}	Antenna 1: 6.4 dBi	Antenna 3: 5.0 dBi
Directional Gain *1)	8.74 dBi	
Maximum clock frequency	512 MHz	

BT1: Bluetooth (BR / EDR / Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	BT: FHSS (GFSK, $\pi/4$ DQPSK, 8DPSK) BT LE: GFSK
Bandwidth / Channel spacing	BT:79 MHz / 1 MHz BT LE: 1 MHz & 2 MHz / 2 MHz
Method of frequency generation	Synthesizer
Antenna Type	IFA
Antenna Gain	Antenna 3: 3.0 dBi
Maximum clock frequency	128 MHz

BT2: Bluetooth (BR / EDR / Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz to 2480 MHz
Type of Modulation	BT: FHSS (GFSK, $\pi/4$ DQPSK, 8DPSK) BT LE: GFSK
Bandwidth / Channel spacing	BT:79 MHz / 1 MHz BT LE: 1 MHz & 2 MHz / 2 MHz
Method of frequency generation	Synthesizer
Antenna Type	IFA
Antenna Gain	Antenna 4: 4.5 dBi
Maximum clock frequency	128 MHz

*1) Directional antenna gain = $10 \log \left(\frac{G_{ANT1}}{10^{20}} + \frac{G_{ANT2}}{10^{20}} \right)^2 / 2$

*This test report applies to WLAN (5 GHz band) part.

2.3 Contents of modification

Each antenna was changed from original application.

SECTION 3: Test specification, Procedures & Results

3.1 Test Specification

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

3.2 Procedures and Results

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
Spurious Emission Restricted Band Edge	FCC: ANSI C63.10-2013 KDB Publication Number 789033 ISED: -	FCC: 15.407 (b), 15.205 and 15.209 ISED: RSS-247 6.2.1.2 6.2.2.2 6.2.3.2 6.2.4.2	3.2 dB 878.2 MHz, Horizontal, QP	Complied a)	Radiated (> 30 MHz) *1)

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.

* In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

*1) Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 789033 D02 G.3.b).

a) Refer to APPENDIX 1 (data of Radiated Spurious Emission)

FCC Part 15.31 (e)

The stable voltage will be supplied by the end product, which will be required to have a power supply regulator. Therefore, the EUT complies with the requirement.

FCC Part 15.203/212 Antenna requirement

[Antenna 1 and 2] The EUT has unique coupling/antenna connector (U.FL).

[Antenna 3 and 4] The antenna is not removable from the EUT.

Therefore, the equipment complies with the antenna requirement of Section 15.203/212.

3.3 Addition to Standard

No addition, exclusion nor deviation has been made from the standard.

3.4 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		Uncertainty (+/-)
3 m	9 kHz to 30 MHz		3.3 dB
10 m			3.1 dB
3 m	30 MHz to 200 MHz	(Horizontal)	4.8 dB
		(Vertical)	5.0 dB
	200 MHz to 1000 MHz	(Horizontal)	5.1 dB
		(Vertical)	6.2 dB
10 m	30 MHz to 200 MHz	(Horizontal)	4.8 dB
		(Vertical)	4.8 dB
	200 MHz to 1000 MHz	(Horizontal)	4.9 dB
		(Vertical)	5.0 dB
3 m	1 GHz to 6 GHz		4.9 dB
	6 GHz to 18 GHz		5.2 dB
1 m	10 GHz to 26.5 GHz		5.5 dB
	26.5 GHz to 40 GHz		5.4 dB
0.5 m	26.5 GHz to 40 GHz		5.4 dB
10 m	1 GHz to 18 GHz		5.3 dB

3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

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

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

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

Telephone: +81-596-24-8999

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	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	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room	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	-	-

3.6 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 802.11ax MIMO 20 MHz BW (11ax-20)	MCS0 (1TX), PN9
IEEE 802.11ax MIMO 40 MHz BW (11ax-40)	MCS0 (1TX), PN9
IEEE 802.11ax MIMO 80 MHz BW (11ax-80)	MCS0 (1TX), PN9
*The worst antenna and condition was determined based on the test result of Maximum Conducted Output Power.	
*Power of the EUT was set by the software as follows; Power Setting: See the table below Software: Dut Labtool, Version: 1.0.0.111 (Date: December 13, 2022, Storage location: Driven by connected PC)	
*This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. 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/ax mode by the pre-test.	

Power Setting

		5.2 GHz band			5.3 GHz band / 5.6 GHz band / 5.8 GHz band		
		20 MHz BW	40 MHz BW	80 MHz BW	20 MHz BW	40 MHz BW	80 MHz BW
OFDM		6.5			8.0		
OFDMA	26-tone RU	-3.5	-6.5	-10.0	-2.0	-5.0	-8.0
	52-tone RU	-0.5	-3.5	-7.0	1.0	-2.0	-5.0
	106-tone RU	3.0	0	-4.0	4.5	1.0	-2.0
	242-tone RU	6.5	4.0	0	8.0	5.0	2.0
	484-tone RU	-	6.5	3.0	-	8.0	5.0
	996-tone RU	-	-	6.5	-	-	8.0

(dBm)

*The Details of Operation Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency			
			Lower Band	Middle Band	Additional Band	Upper Band
Radiated Spurious Emission (Below 1 GHz)	Tx 11ax-20 OFDM *1)	Antenna 1 +3	-	-	5700 MHz	-
Radiated Spurious Emission (Above 1 GHz)	Tx 11ax-20 OFDM *2) Tx 11ax-20 OFDMA *3)	Antenna 1 +3	5180 MHz	5260 MHz 5320 MHz	5500 MHz *4) 5580 MHz 5700 MHz	5745 MHz 5785 MHz 5825 MHz
	Tx 11ax-40 OFDM *2) Tx 11ax-40 OFDMA *3)	Antenna 1 +3	5190 MHz	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz	5755 MHz 5795 MHz
	Tx 11ax-80 OFDM *2) Tx 11ax-80 OFDMA *3)	Antenna 1 +3	5210 MHz	5290 MHz	5530 MHz 5610 MHz 5690 MHz	5775 MHz

*1) The mode was tested as a representative, because it had the highest power at antenna terminal test.

*2) Since each of 20 MHz BW (11n-20 / 11ac-20 / 11ax-20), 40 MHz BW (11n-40 / 11ac-40 / 11ax-40) and 80 MHz BW (11ac-80 / 11ax-80) 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.

*3) OFDMA configuration tests were conducted only at the band edge since they had lower power and density than OFDM.

*4) Only 11ax-20 OFDMA (26-tone RU), the test at 5500 MHz was excluded since the EUT didn't support the feature.

Simultaneous transmission (Only Antenna 3 simultaneously transmits BT1 and WLAN 5 GHz band on a single antenna.)

Test Item	Mode *1)	Antenna type
Radiated Spurious Emission	Tx 11ax-80 5290 MHz (996-tone RU) + BT1 3DH5 Hopping	Antenna 3
*1) The test was conducted on representative mode, the worst mode of GHz band at Spurious emission test for WLAN 5 GHz band and the mode had the highest power at Antenna terminal conducted test for BT1.		

4.2 Configuration and Peripherals

This page has been submitted for a separate exhibit.

SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on a urethane 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 urethane 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 W58 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:

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

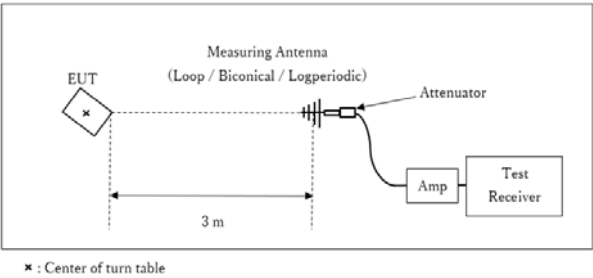
Test Antennas are used as below;

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 VBW: 3 MHz	Method AD RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: ≥ 100 traces If duty cycle was less than 98%, a duty factor was added to the results.

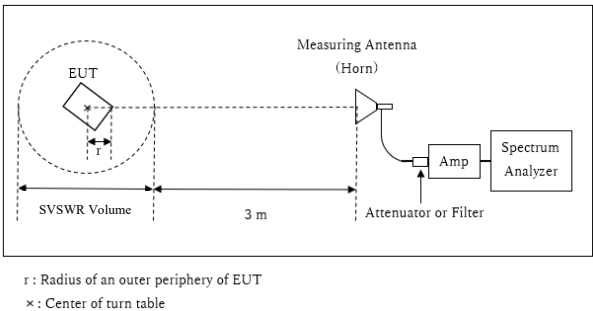
Figure 2: Test Setup

Below 1 GHz



Test Distance: 3 m

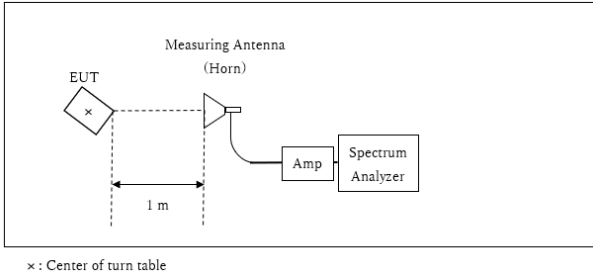
1 GHz to 10 GHz



Distance Factor: $20 \times \log (3.7 \text{ m} / 3.0 \text{ m}) = 1.83 \text{ dB}$
* Test Distance: $(3 + \text{SVSWR Volume} / 2) - r = 3.7 \text{ m}$

SVSWR Volume : 1.5 m
(SVSWR Volume has been calibrated based on CISPR 16-1-4.)
 $r = 0.05 \text{ m}$

10 GHz to 40GHz



Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$
*Test Distance: 1 m

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

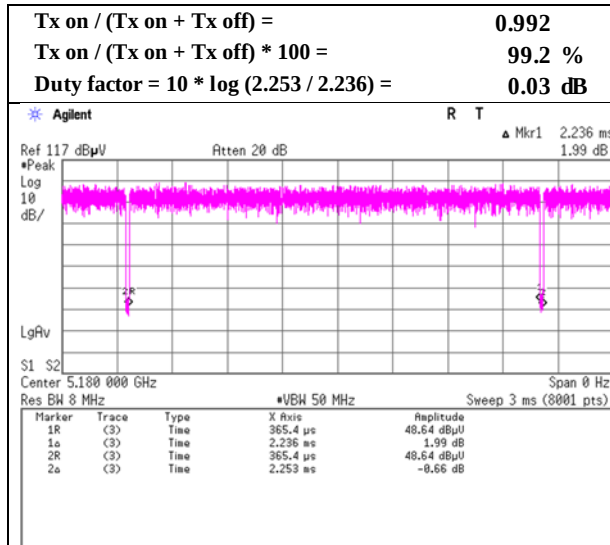
Measurement Range : 30 MHz to 40 GHz
Test Data : APPENDIX
Test Result : Pass

APPENDIX 1: Test Data

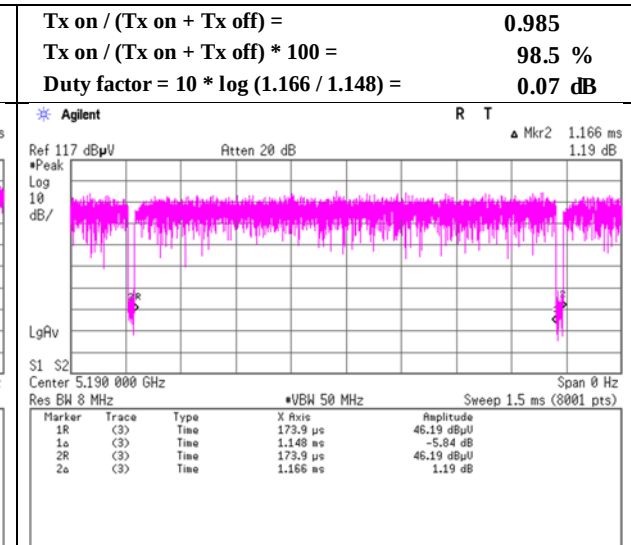
Burst rate confirmation

Test place Ise EMC Lab. No.2 Semi Anechoic Chamber
Date January 20, 2023
Temperature / Humidity 20 deg. C / 40 % RH
Engineer Yuichiro Yamazaki
Mode Tx

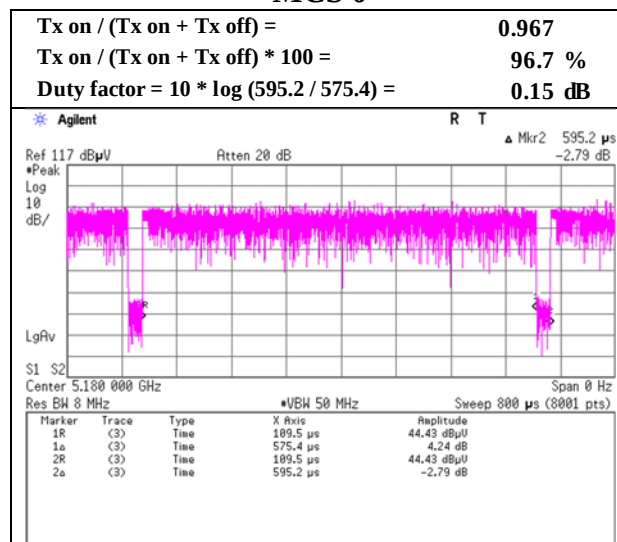
11ax-20 (OFDM) MCS 0



11ax-40 (OFDM) MCS 0



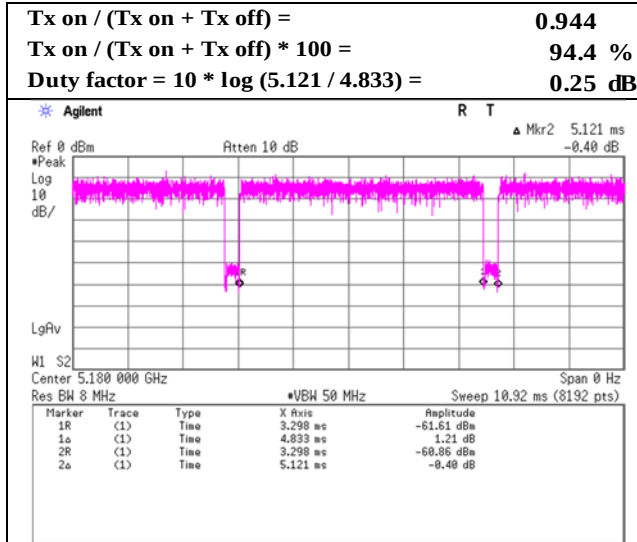
11ax-80 (OFDM) MCS 0



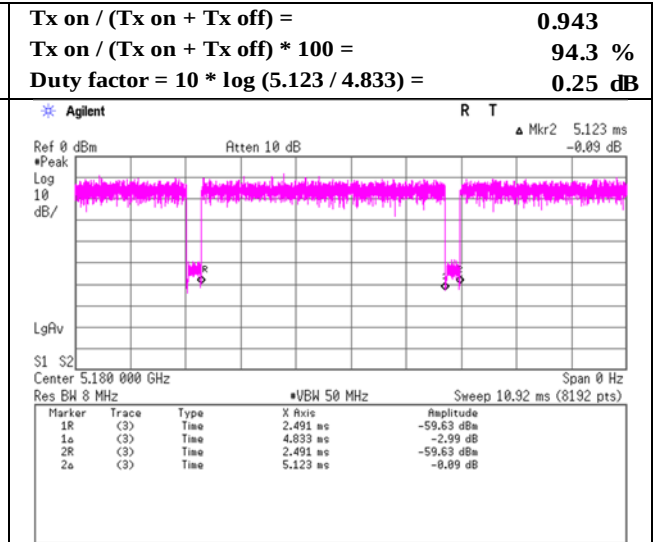
Burst rate confirmation

Test place Ise EMC Lab. No.2 Semi Anechoic Chamber
Date January 18, 2023
Temperature / Humidity 20 deg. C / 51 % RH
Engineer Hiroki Numata
Mode Tx

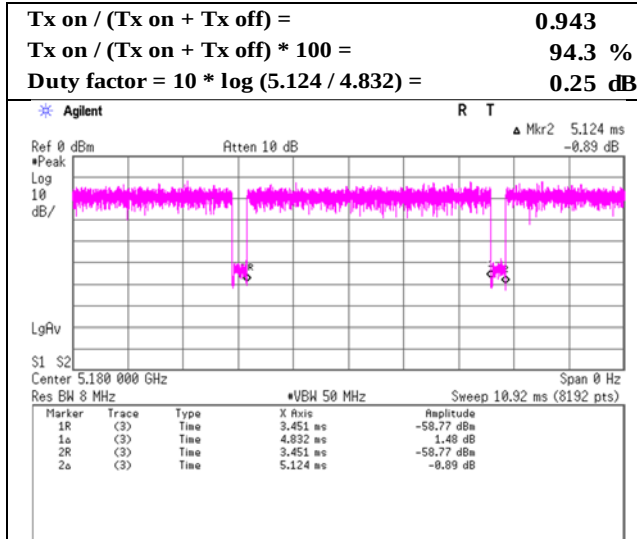
11ax-20 (26-tone RU) MCS 0



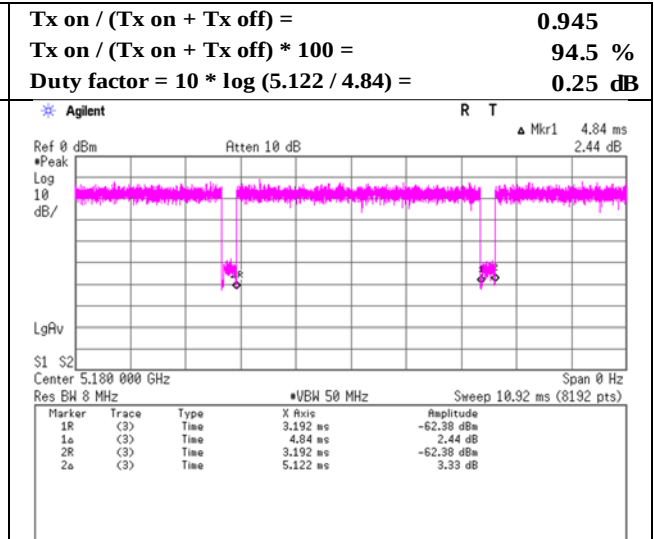
11ax-20 (52-tone RU) MCS 0



11ax-20 (106-tone RU) MCS 0



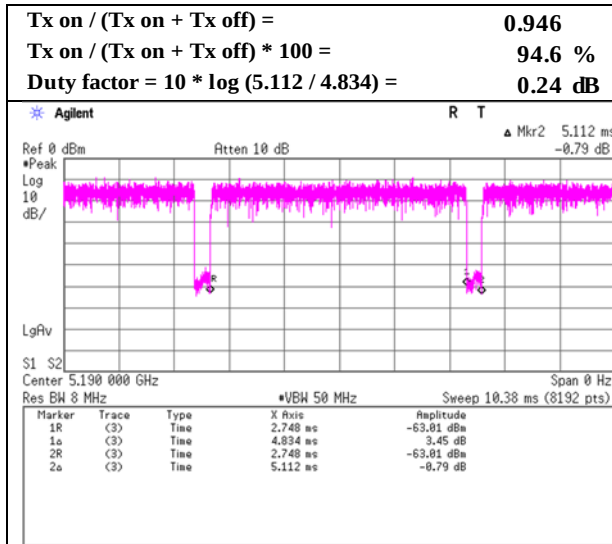
11ax-20 (242-tone RU) MCS 0



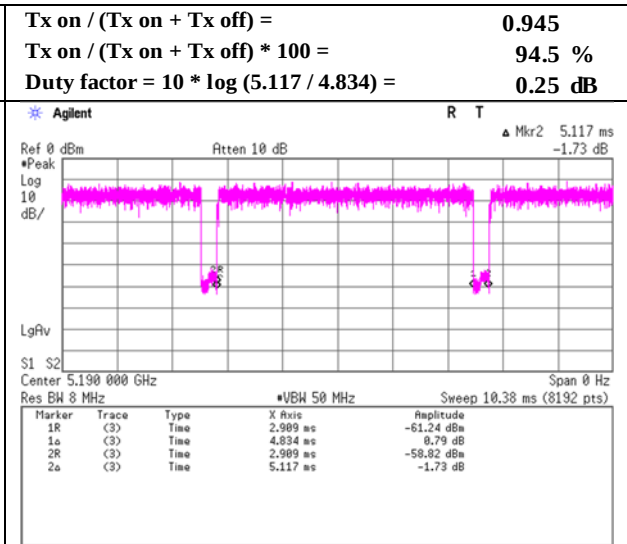
Burst rate confirmation

Test place Ise EMC Lab. No.2 Semi Anechoic Chamber
Date January 18, 2023
Temperature / Humidity 20 deg. C / 51 % RH
Engineer Hiroki Numata
Mode Tx

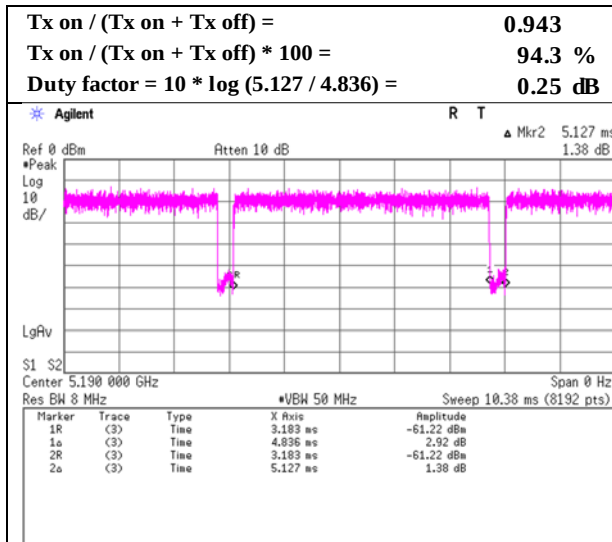
11ax-40 (26-tone RU) MCS 0



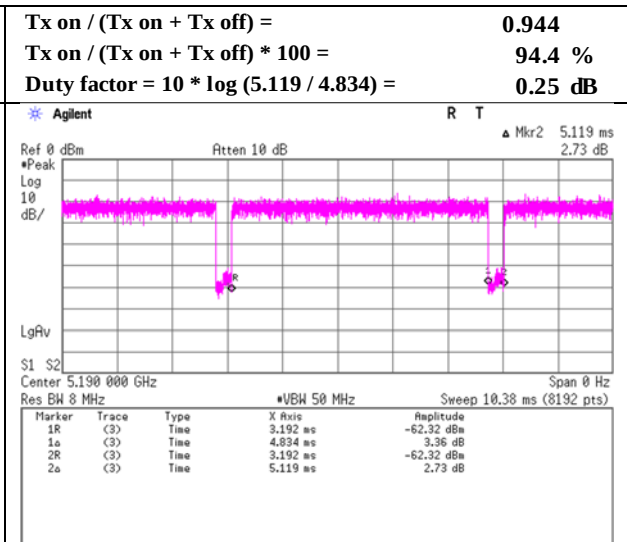
11ax-40 (52-tone RU) MCS 0



11ax-40 (106-tone RU) MCS 0



11ax-40 (242-tone RU) MCS 0



Burst rate confirmation

Test place

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab. No.2 Semi Anechoic Chamber

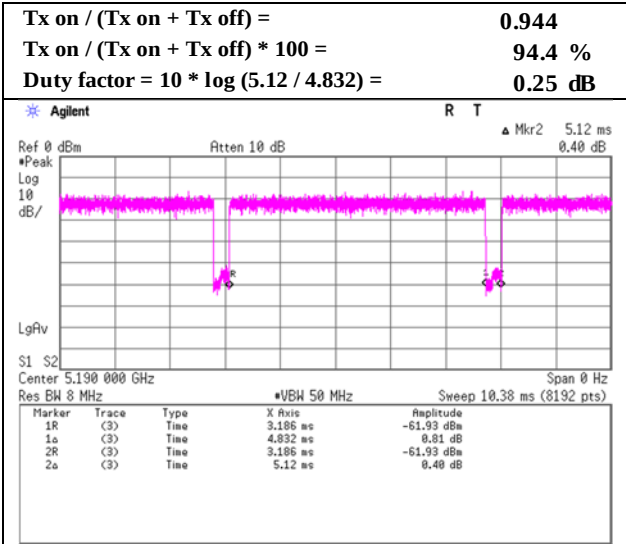
January 18, 2023

20 deg. C / 51 % RH

Hiroki Numata

Tx

11ax-40 (484-tone RU)
MCS 0

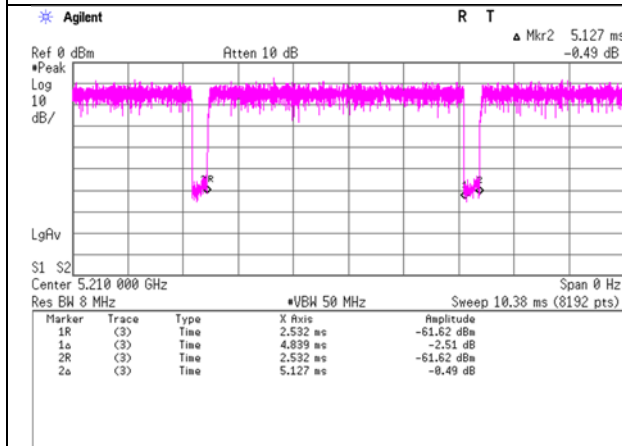


Burst rate confirmation

Test place Ise EMC Lab. No.2 Semi Anechoic Chamber
Date January 18, 2023
Temperature / Humidity 20 deg. C / 51 % RH
Engineer Hiroki Numata
Mode Tx

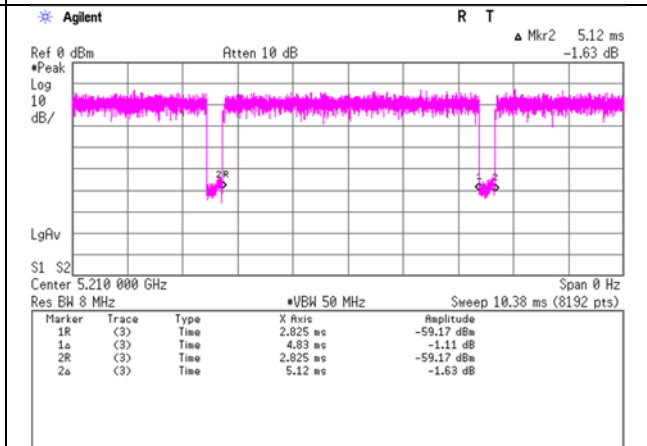
11ax-80 (26-tone RU) MCS 0

$Tx\ on / (Tx\ on + Tx\ off) = 0.944$
 $Tx\ on / (Tx\ on + Tx\ off) * 100 = 94.4\ \%$
 $Duty\ factor = 10 * \log (5.127 / 4.839) = 0.25\ dB$



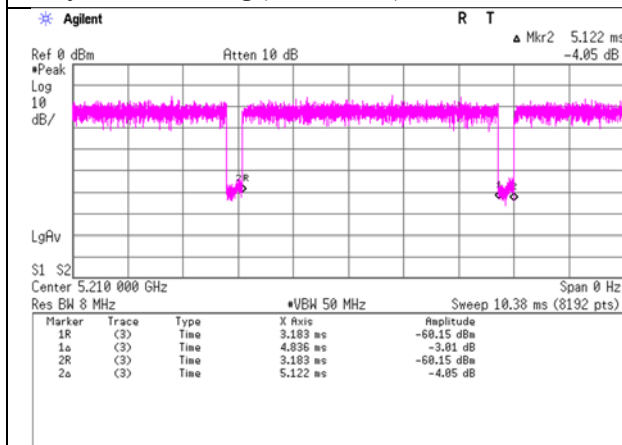
11ax-80 (52-tone RU) MCS 0

$Tx\ on / (Tx\ on + Tx\ off) = 0.943$
 $Tx\ on / (Tx\ on + Tx\ off) * 100 = 94.3\ \%$
 $Duty\ factor = 10 * \log (5.12 / 4.83) = 0.25\ dB$



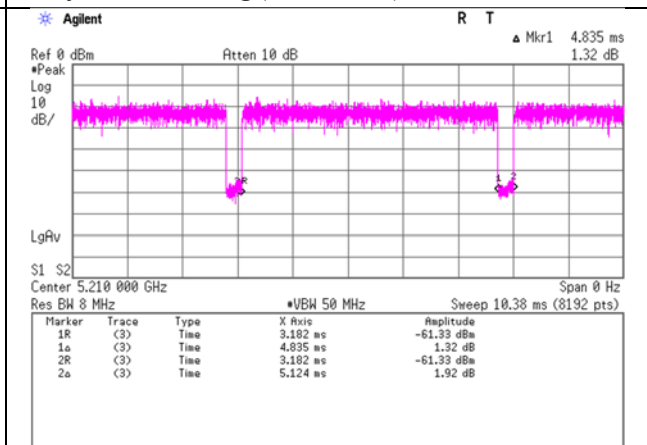
11ax-80 (106-tone RU) MCS 0

$Tx\ on / (Tx\ on + Tx\ off) = 0.944$
 $Tx\ on / (Tx\ on + Tx\ off) * 100 = 94.4\ \%$
 $Duty\ factor = 10 * \log (5.122 / 4.836) = 0.25\ dB$



11ax-80 (242-tone RU) MCS 0

$Tx\ on / (Tx\ on + Tx\ off) = 0.944$
 $Tx\ on / (Tx\ on + Tx\ off) * 100 = 94.4\ \%$
 $Duty\ factor = 10 * \log (5.124 / 4.835) = 0.25\ dB$



Burst rate confirmation

Test placeIse EMC Lab. No.2 Semi Anechoic Chamber

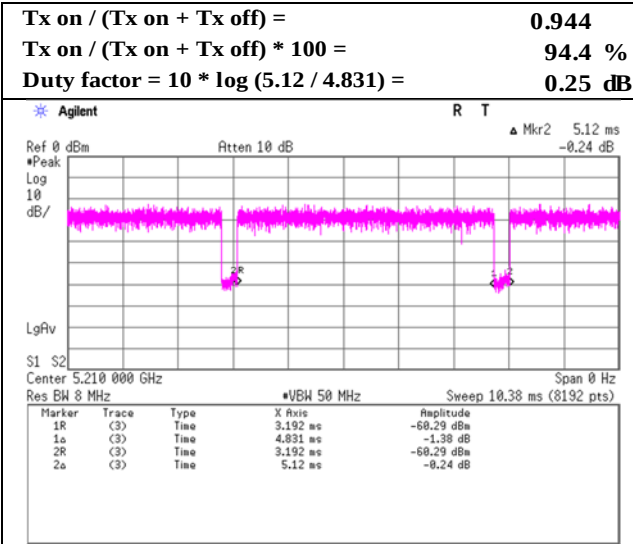
DateJanuary 18, 2023

Temperature / Humidity20 deg. C / 51 % RH

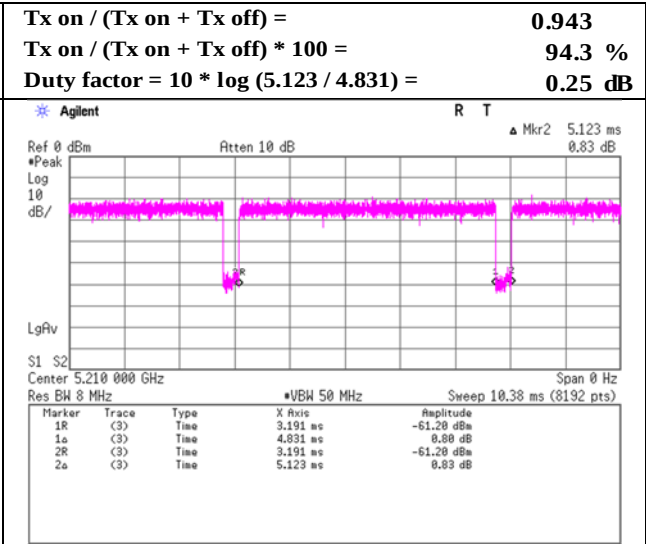
EngineerHiroki Numata

ModeTx

11ax-80 (484-tone RU)
MCS 0



11ax-40 (996-tone RU)
MCS 0



Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5180 MHz (OFDM)			

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.	5150.0	46.8	36.9	32.1	5.7	34.1	-	50.4	40.6	73.9	53.9	23.5	13.4	*1)
Hori.	10360.0	44.7	-	39.7	-2.5	34.5	-	47.5	-	68.2	-	20.7	-	Floor noise
Hori.	15540.0	45.8	36.4	37.7	-0.8	33.5	-	49.3	39.8	73.9	53.9	24.7	14.1	Floor noise
Vert.	5150.0	46.8	35.4	32.1	5.7	34.1	-	50.4	39.1	73.9	53.9	23.5	14.8	*1)
Vert.	10360.0	45.0	-	39.7	-2.5	34.5	-	47.7	-	68.2	-	20.5	-	Floor noise
Vert.	15540.0	45.9	36.2	37.7	-0.8	33.5	-	49.4	39.7	73.9	53.9	24.5	14.2	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).

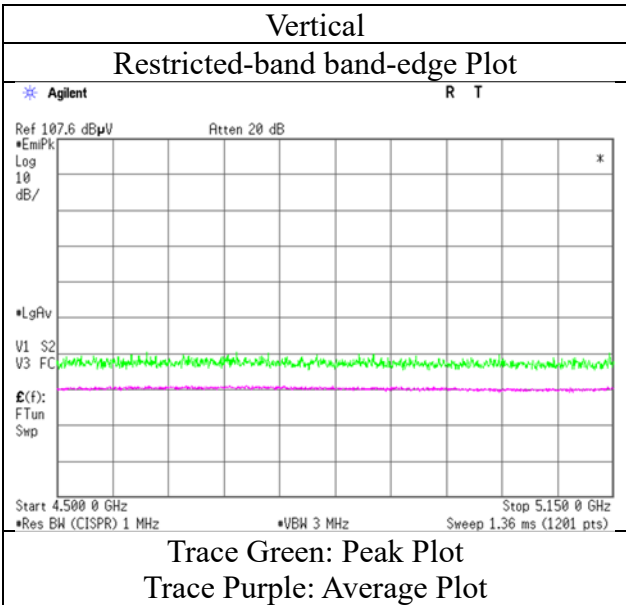
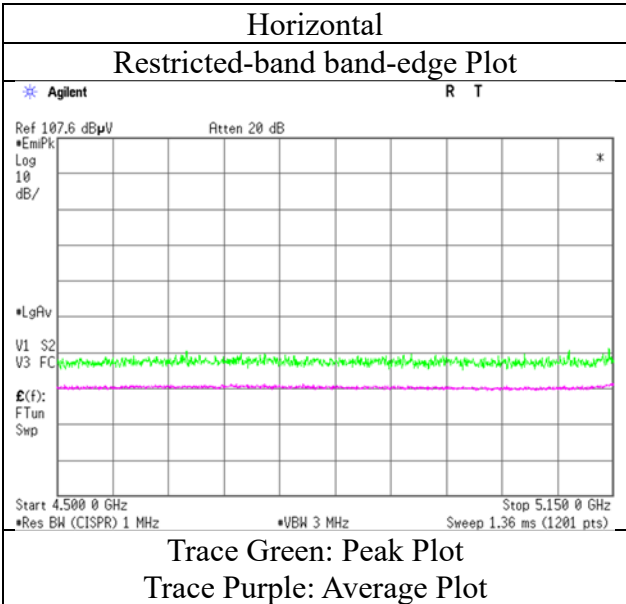
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	$20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
	10 GHz - 40 GHz	$20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5260 MHz (OFDM)			

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.	10520.0	44.0	-	39.5	-2.4	34.4	-	46.8	-	68.2	-	21.5	-	Floor noise
Hori.	15780.0	45.4	36.4	37.5	-0.7	33.7	-	48.5	39.6	73.9	53.9	25.4	14.4	Floor noise
Vert.	10520.0	44.4	-	39.5	-2.4	34.4	-	47.2	-	68.2	-	21.0	-	Floor noise
Vert.	15780.0	45.4	36.4	37.5	-0.7	33.7	-	48.6	39.5	73.9	53.9	25.3	14.4	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.

Distance factor:	1 GHz - 10 GHz	$20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
	10 GHz - 40 GHz	$20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5320 MHz (OFDM)			

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.	5350.0	57.6	38.2	31.8	5.7	34.0	-	61.2	41.7	73.9	53.9	12.7	12.2	*1)
Hori.	10640.0	43.7	33.7	39.5	-2.4	34.3	-	46.5	36.5	73.9	53.9	27.4	17.4	Floor noise
Hori.	15960.0	45.7	36.1	37.6	-0.6	33.8	-	48.8	39.3	73.9	53.9	25.1	14.7	Floor noise
Vert.	5350.0	56.2	36.9	31.8	5.7	34.0	-	59.8	40.5	73.9	53.9	14.1	13.4	*1)
Vert.	10640.0	43.8	33.8	39.5	-2.4	34.3	-	46.6	36.6	73.9	53.9	27.3	17.3	Floor noise
Vert.	15960.0	45.8	36.1	37.6	-0.6	33.8	-	49.0	39.2	73.9	53.9	24.9	14.7	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).

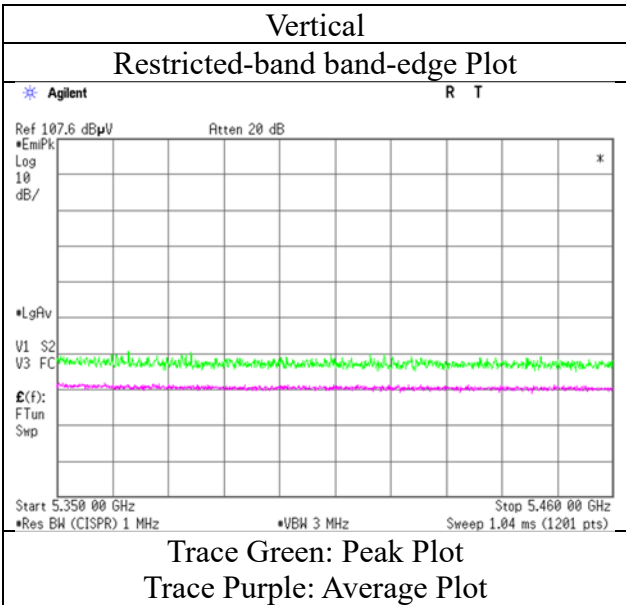
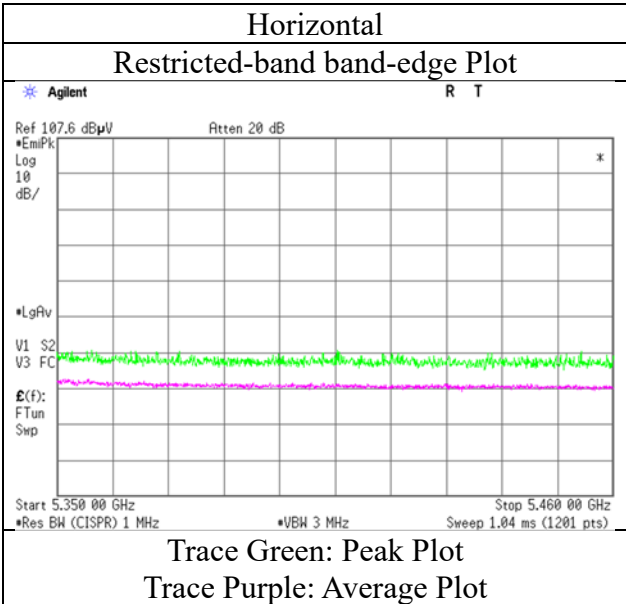
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5500 MHz (OFDM)			

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.	5460.0	46.1	35.9	31.9	5.8	33.9	-	49.9	39.7	68.2	53.9	18.3	14.2	*1)
Hori.	5470.0	47.1	-	31.9	5.8	33.9	-	50.9	-	68.2	-	17.3	-	
Hori.	11000.0	44.5	34.3	40.1	-2.2	34.0	-	48.3	38.2	73.9	53.9	25.6	15.8	Floor noise
Hori.	16500.0	45.3	-	40.0	-0.5	33.5	-	51.4	-	68.2	-	16.8	-	Floor noise
Vert.	5460.0	45.3	35.4	31.9	5.8	33.9	-	49.1	39.1	68.2	53.9	19.1	14.8	*1)
Vert.	5470.0	47.1	-	31.9	5.8	33.9	-	50.8	-	68.2	-	17.4	-	
Vert.	11000.0	45.0	34.4	40.1	-2.2	34.0	-	48.8	38.2	73.9	53.9	25.1	15.7	Floor noise
Vert.	16500.0	45.0	-	40.0	-0.5	33.5	-	51.1	-	68.2	-	17.1	-	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).

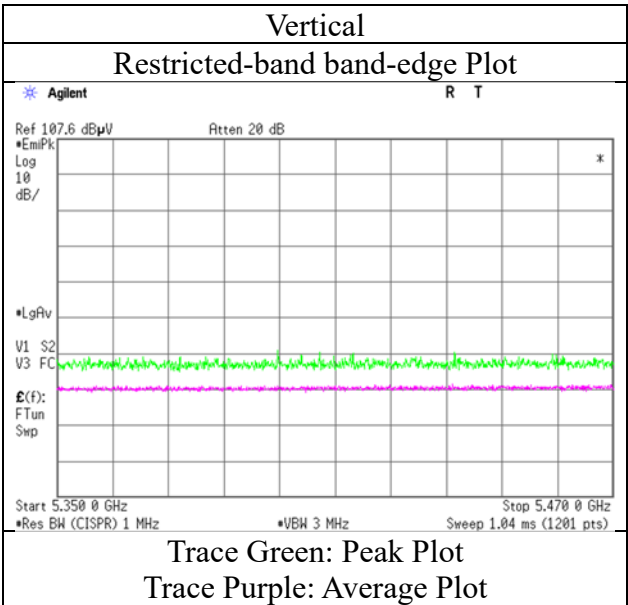
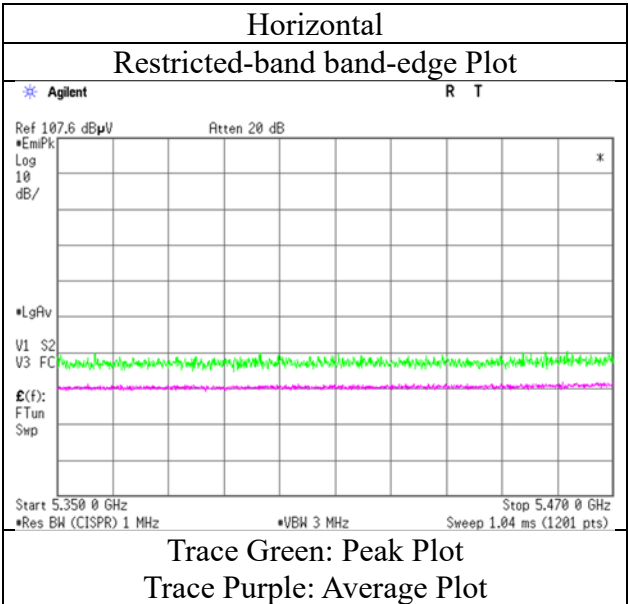
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5580 MHz (OFDM)			

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.	11160.0	43.6	34.8	39.8	-2.1	34.0	-	47.3	38.5	73.9	53.9	26.6	15.4	Floor noise
Hori.	16740.0	45.4	-	40.5	-0.5	33.3	-	52.2	-	68.2	-	16.0	-	Floor noise
Vert.	11160.0	43.8	34.7	39.8	-2.1	34.0	-	47.5	38.5	73.9	53.9	26.4	15.4	Floor noise
Vert.	16740.0	45.7	-	40.5	-0.5	33.3	-	52.5	-	68.2	-	15.7	-	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.

Distance factor:	1 GHz - 10 GHz	20log(3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place Ise EMC Lab.
Semi Anechoic Chamber No.2 No.2 No.2 No.2 No.2
Date January 20, 2023 January 22, 2023 January 23, 2023 January 23, 2023 January 24, 2023
Temperature / Humidity 20 deg. C / 40 % RH 18 deg. C / 40 % RH 18 deg. C / 41 % RH 24 deg. C / 43 % RH 20 deg. C / 39 % RH
Engineer Yuichiro Yamazaki Yuichiro Yamazaki Takumi Nishida Yuichiro Yamazaki Yuichiro Yamazaki
Mode Tx 11ax-20 5700 MHz (OFDM) (1 GHz - 10 GHz) (10 GHz - 18 GHz) (18 GHz - 26.5 GHz) (26.5 GHz - 40 GHz) (Below 1 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.	57.9	36.6	-	8.6	7.0	28.5	-	23.6	-	40.0	-	16.4	-	
Hori.	119.7	42.2	-	12.9	7.5	28.4	-	34.3	-	43.5	-	9.3	-	
Hori.	146.5	39.4	-	14.8	7.7	28.3	-	33.6	-	43.5	-	9.9	-	
Hori.	335.9	36.9	-	15.3	8.9	28.0	-	33.1	-	46.0	-	12.9	-	
Hori.	368.1	40.4	-	15.3	9.1	28.2	-	36.6	-	46.0	-	9.5	-	
Hori.	548.0	31.6	-	18.0	10.0	29.2	-	30.3	-	46.0	-	15.8	-	
Hori.	639.2	37.2	-	19.4	10.3	29.3	-	37.6	-	46.0	-	8.4	-	
Hori.	680.2	38.9	-	19.7	10.5	29.3	-	39.8	-	46.0	-	6.2	-	
Hori.	878.2	38.5	-	22.1	11.1	28.9	-	42.8	-	46.0	-	3.2	-	
Hori.	5725.0	57.9	-	32.1	5.8	33.9	-	61.9	-	68.2	-	6.3	-	
Hori.	11400.0	44.2	34.3	40.1	-1.9	33.9	-	48.5	38.5	73.9	53.9	25.4	15.4	Floor noise
Hori.	17100.0	45.8	-	41.4	-0.4	33.0	-	53.8	-	68.2	-	14.4	-	Floor noise
Vert.	57.9	47.6	-	8.6	7.0	28.5	-	34.6	-	40.0	-	5.4	-	
Vert.	119.7	41.8	-	12.9	7.5	28.4	-	33.9	-	43.5	-	9.6	-	
Vert.	146.5	39.8	-	14.8	7.7	28.3	-	34.0	-	43.5	-	9.5	-	
Vert.	335.9	42.9	-	15.3	8.9	28.0	-	39.1	-	46.0	-	7.0	-	
Vert.	368.1	46.6	-	15.3	9.1	28.2	-	42.7	-	46.0	-	3.3	-	
Vert.	548.0	40.7	-	18.0	10.0	29.2	-	39.4	-	46.0	-	6.6	-	
Vert.	639.2	34.9	-	19.4	10.3	29.3	-	35.3	-	46.0	-	10.7	-	
Vert.	680.2	37.1	-	19.7	10.5	29.3	-	38.0	-	46.0	-	8.0	-	
Vert.	878.2	38.3	-	22.1	11.1	28.9	-	42.6	-	46.0	-	3.4	-	
Vert.	5725.0	55.8	-	32.1	5.8	33.9	-	59.8	-	68.2	-	8.4	-	
Vert.	11400.0	44.0	34.3	40.1	-1.9	33.9	-	48.3	38.6	73.9	53.9	25.6	15.3	Floor noise
Vert.	17100.0	45.5	-	41.4	-0.4	33.0	-	53.6	-	68.2	-	14.7	-	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

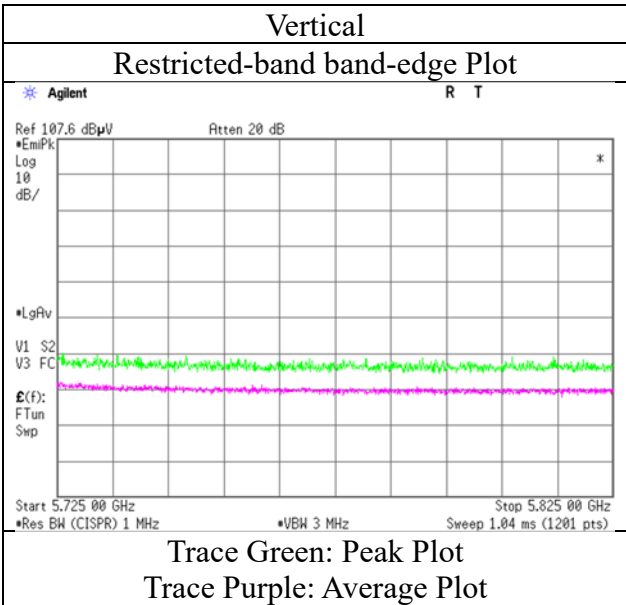
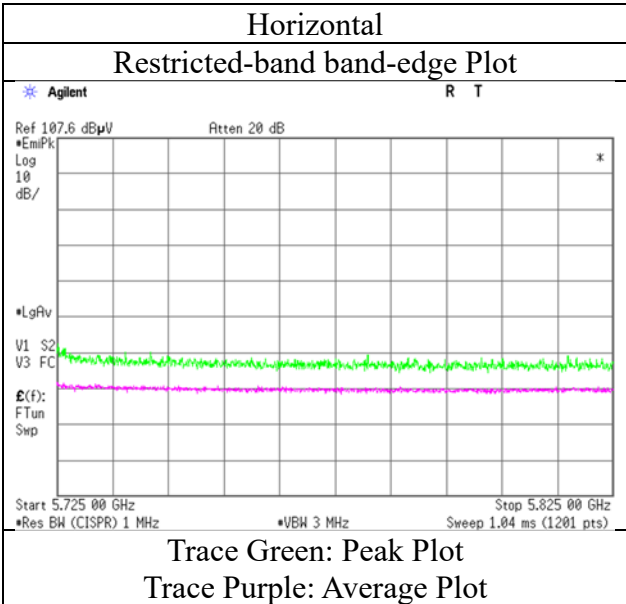
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5745 MHz (OFDM)			

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	44.3	-	31.9	5.8	33.9	-	48.1	-	68.2	-	20.1	-	
Hori.	5700.0	45.6	-	32.0	5.8	33.9	-	49.5	-	105.2	-	55.7	-	
Hori.	5720.0	53.4	-	32.0	5.8	33.9	-	57.4	-	110.8	-	53.4	-	
Hori.	5725.0	59.3	-	32.1	5.8	33.9	-	63.3	-	122.2	-	58.9	-	
Hori.	11490.0	43.6	33.9	40.0	-1.9	33.9	-	47.9	38.2	73.9	53.9	26.0	15.7	Floor noise
Hori.	17235.0	45.4	-	42.2	-0.3	33.0	-	54.3	-	68.2	-	13.9	-	Floor noise
Vert.	5650.0	44.5	-	31.9	5.8	33.9	-	48.3	-	68.2	-	19.9	-	
Vert.	5700.0	45.0	-	32.0	5.8	33.9	-	48.9	-	105.2	-	56.3	-	
Vert.	5720.0	53.7	-	32.0	5.8	33.9	-	57.6	-	110.8	-	53.2	-	
Vert.	5725.0	58.2	-	32.1	5.8	33.9	-	62.2	-	122.2	-	60.0	-	
Vert.	11490.0	43.4	34.0	40.0	-1.9	33.9	-	47.7	38.3	73.9	53.9	26.2	15.6	Floor noise
Vert.	17235.0	45.3	-	42.2	-0.3	33.0	-	54.2	-	68.2	-	14.0	-	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

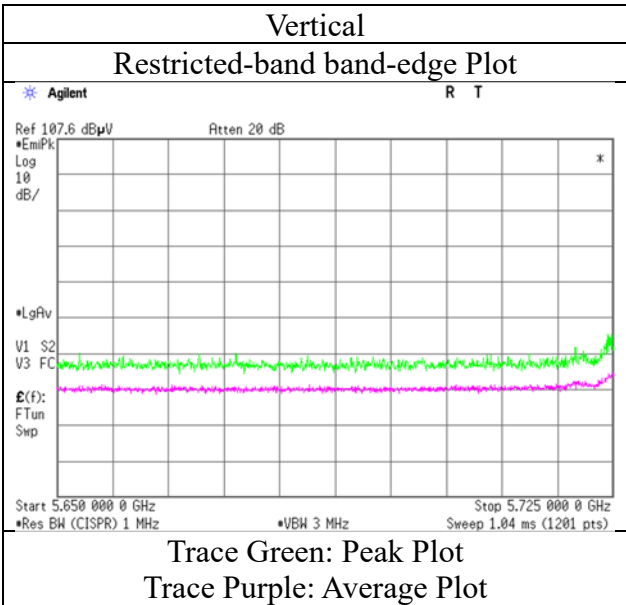
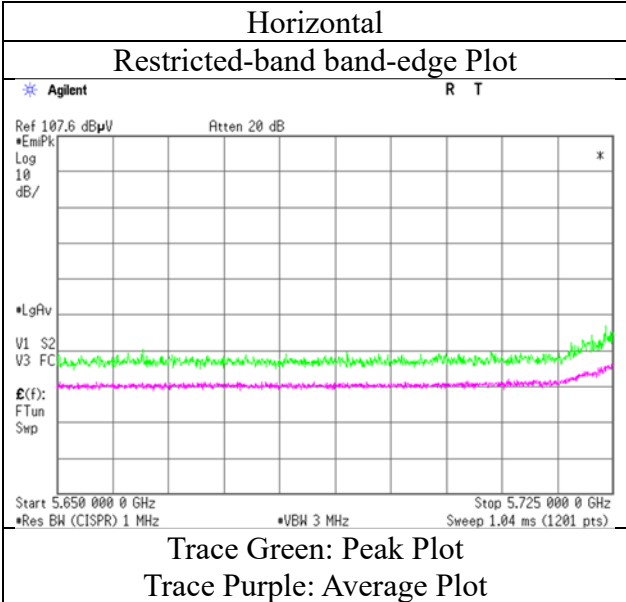
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor:
 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5785 MHz (OFDM)			

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.	11570.0	44.0	34.2	39.8	-1.8	33.9	-	48.1	38.3	73.9	53.9	25.8	15.6	Floor noise
Hori.	17355.0	45.2	-	43.1	-0.3	33.0	-	55.0	-	68.2	-	13.2	-	Floor noise
Vert.	11570.0	44.0	34.1	39.8	-1.8	33.9	-	48.1	38.2	73.9	53.9	25.8	15.7	Floor noise
Vert.	17355.0	45.2	-	43.1	-0.3	33.0	-	55.1	-	68.2	-	13.2	-	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.

Distance factor:	1 GHz - 10 GHz	$20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
	10 GHz - 40 GHz	$20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-20 5825 MHz (OFDM)			

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.	5850.0	56.9	-	32.4	5.9	33.9	-	61.2	-	122.2	-	61.0	-	
Hori.	5855.0	50.2	-	32.4	5.9	33.9	-	54.5	-	110.8	-	56.3	-	
Hori.	5875.0	45.5	-	32.4	5.9	33.9	-	49.8	-	105.2	-	55.4	-	
Hori.	5925.0	43.8	-	32.5	5.9	33.9	-	48.2	-	68.2	-	20.0	-	
Hori.	11650.0	44.3	34.6	39.4	-1.7	33.9	-	48.2	38.4	73.9	53.9	25.8	15.5	Floor noise
Hori.	17475.0	45.2	-	43.8	-0.3	32.9	-	55.8	-	68.2	-	12.4	-	Floor noise
Vert.	5850.0	58.8	-	32.4	5.9	33.9	-	63.1	-	122.2	-	59.1	-	
Vert.	5855.0	51.9	-	32.4	5.9	33.9	-	56.2	-	110.8	-	54.6	-	
Vert.	5875.0	44.9	-	32.4	5.9	33.9	-	49.3	-	105.2	-	56.0	-	
Vert.	5925.0	43.9	-	32.5	5.9	33.9	-	48.3	-	68.2	-	19.9	-	
Vert.	11650.0	44.4	34.6	39.4	-1.7	33.9	-	48.2	38.4	73.9	53.9	25.7	15.5	Floor noise
Vert.	17475.0	45.2	-	43.8	-0.3	32.9	-	55.8	-	68.2	-	12.5	-	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

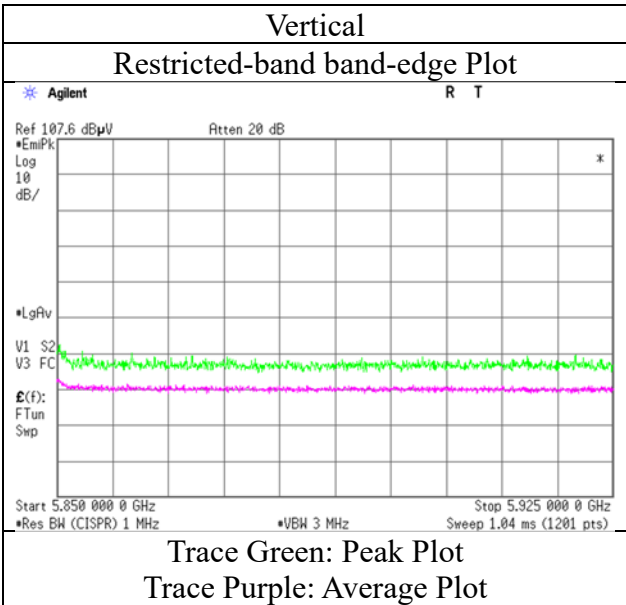
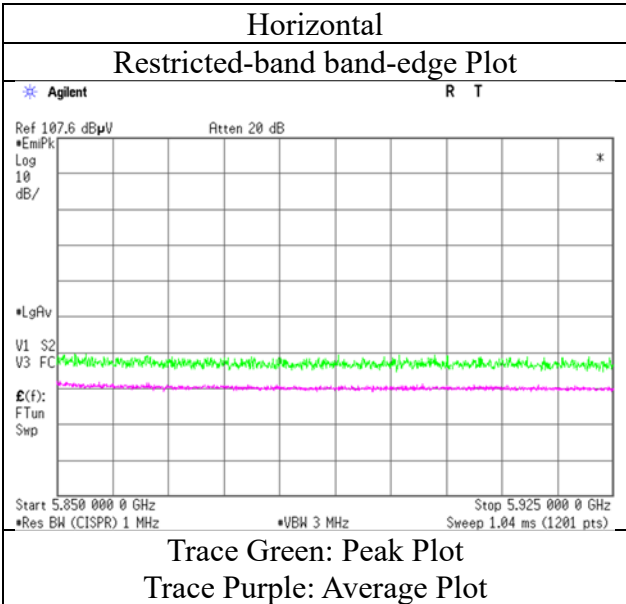
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5190 MHz (OFDM)			

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.	5150.0	55.4	38.5	32.1	5.7	34.1	-	59.0	42.1	73.9	53.9	14.9	11.8	*1)
Hori.	10380.0	45.6	-	39.7	-2.5	34.5	-	48.4	-	68.2	-	19.8	-	Floor noise
Hori.	15570.0	46.0	36.4	37.7	-0.8	33.5	-	49.4	39.8	73.9	53.9	24.5	14.1	Floor noise
Vert.	5150.0	52.5	36.7	32.1	5.7	34.1	-	56.2	40.3	73.9	53.9	17.7	13.6	*1)
Vert.	10380.0	45.7	-	39.7	-2.5	34.5	-	48.5	-	68.2	-	19.7	-	Floor noise
Vert.	15570.0	46.1	36.5	37.7	-0.8	33.5	-	49.5	40.0	73.9	53.9	24.4	14.0	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).

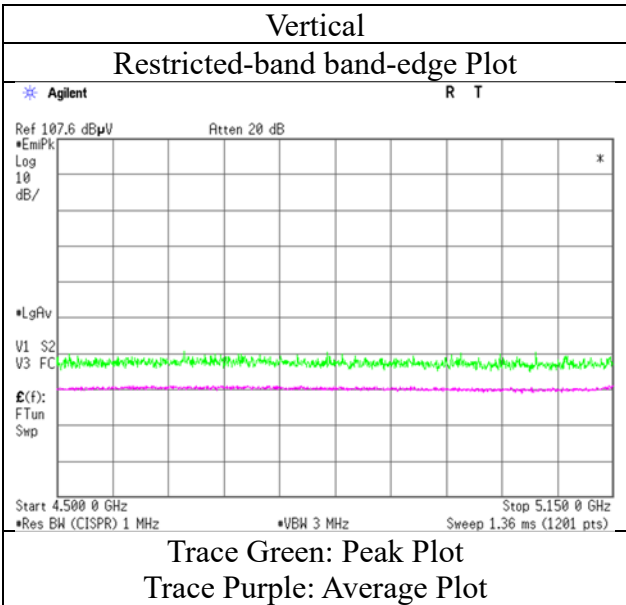
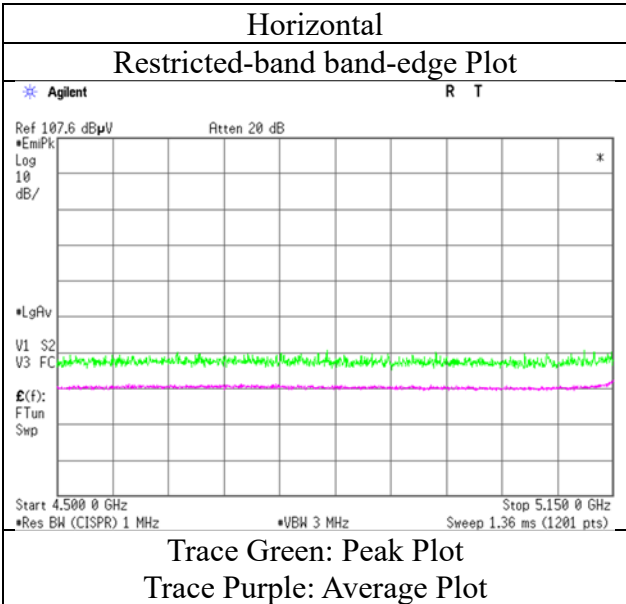
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5270 MHz (OFDM)			

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.	10540.0	44.0	-	39.5	-2.4	34.4	-	46.7	-	68.2	-	21.5	-	Floor noise
Hori.	15810.0	45.4	36.0	37.5	-0.7	33.7	-	48.5	39.1	73.9	53.9	25.4	14.8	Floor noise
Vert.	10540.0	44.1	-	39.5	-2.4	34.4	-	46.8	-	68.2	-	21.4	-	Floor noise
Vert.	15810.0	45.3	36.2	37.5	-0.7	33.7	-	48.3	39.3	73.9	53.9	25.6	14.6	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.

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5310 MHz (OFDM)			

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.	5350.0	54.9	38.6	31.8	5.7	34.0	-	58.4	42.1	73.9	53.9	15.5	11.8	*1)
Hori.	10620.0	43.4	34.2	39.5	-2.4	34.3	-	46.2	37.0	73.9	53.9	27.7	16.9	Floor noise
Hori.	15930.0	45.6	36.0	37.6	-0.6	33.8	-	48.7	39.1	73.9	53.9	25.2	14.8	Floor noise
Vert.	5350.0	55.3	40.6	31.8	5.7	34.0	-	58.9	44.2	73.9	53.9	15.0	9.7	*1)
Vert.	10620.0	43.5	34.1	39.5	-2.4	34.3	-	46.4	36.9	73.9	53.9	27.6	17.0	Floor noise
Vert.	15930.0	45.5	36.1	37.6	-0.6	33.8	-	48.6	39.2	73.9	53.9	25.3	14.7	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).

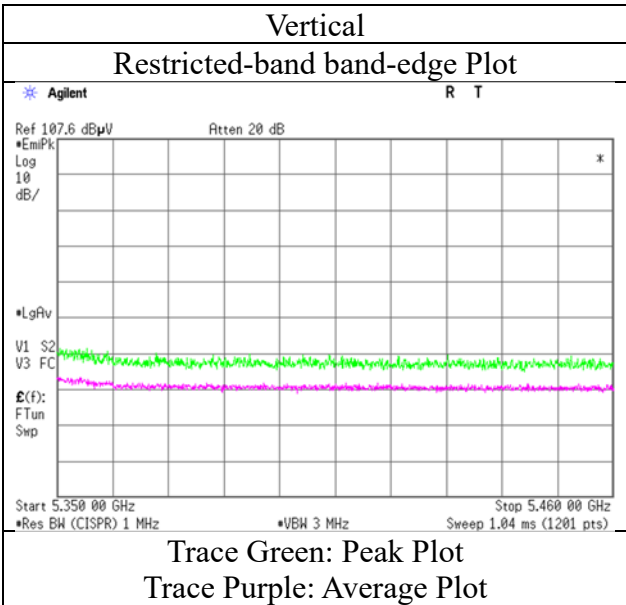
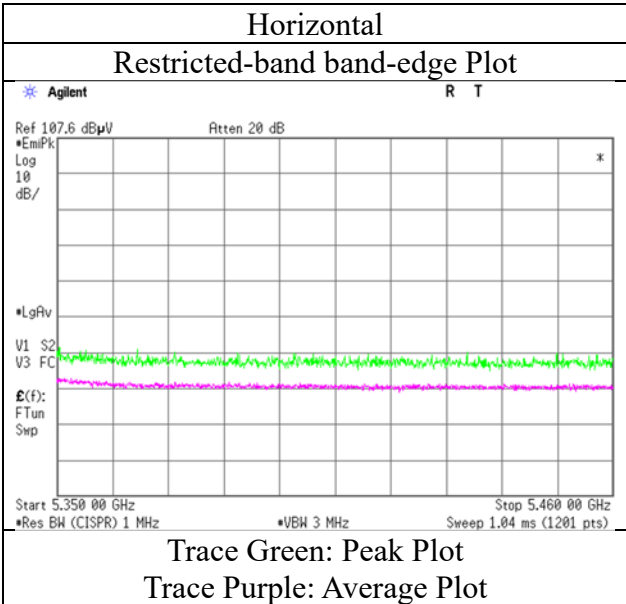
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5510 MHz (OFDM)			

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.	5460.0	47.7	36.2	31.9	5.8	33.9	-	51.4	40.0	68.2	53.9	16.8	13.9	*1)
Hori.	5470.0	53.6	-	31.9	5.8	33.9	-	57.4	-	68.2	-	10.8	-	
Hori.	11020.0	44.7	34.5	40.0	-2.2	34.0	-	48.5	38.3	73.9	53.9	25.4	15.6	Floor noise
Hori.	16530.0	46.0	-	40.0	-0.5	33.4	-	52.0	-	68.2	-	16.2	-	Floor noise
Vert.	5460.0	47.1	36.1	31.9	5.8	33.9	-	50.9	39.8	68.2	53.9	17.3	14.1	*1)
Vert.	5470.0	53.0	-	31.9	5.8	33.9	-	56.8	-	68.2	-	11.4	-	
Vert.	11020.0	44.4	34.6	40.0	-2.2	34.0	-	48.2	38.4	73.9	53.9	25.8	15.5	Floor noise
Vert.	16530.0	45.9	-	40.0	-0.5	33.4	-	51.9	-	68.2	-	16.3	-	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).

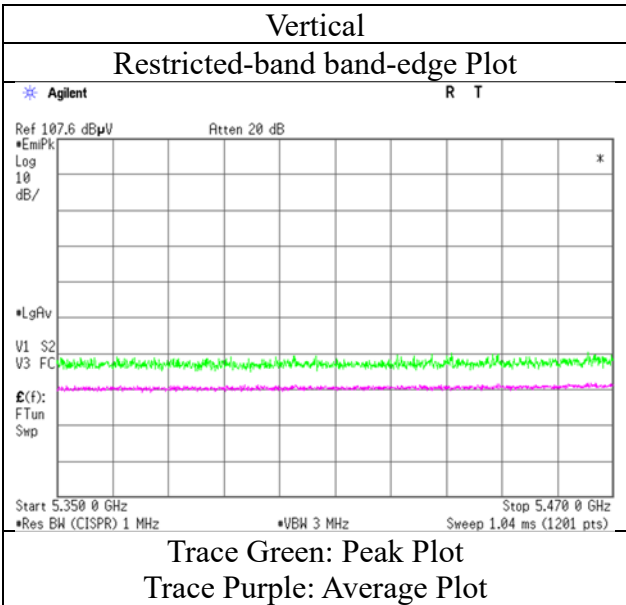
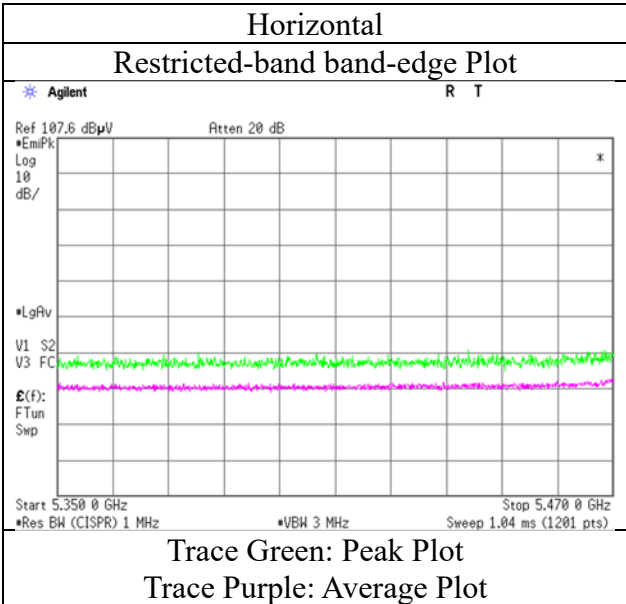
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5550 MHz (OFDM)			

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.	11100.0	44.6	34.6	39.9	-2.1	34.0	-	48.3	38.3	73.9	53.9	25.6	15.6	Floor noise
Hori.	16650.0	44.9	-	40.2	-0.5	33.3	-	51.4	-	68.2	-	16.8	-	Floor noise
Vert.	11100.0	44.4	34.8	39.9	-2.1	34.0	-	48.2	38.5	73.9	53.9	25.8	15.4	Floor noise
Vert.	16650.0	45.1	-	40.2	-0.5	33.3	-	51.5	-	68.2	-	16.7	-	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.

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5670 MHz (OFDM)			

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5725.0	48.8	-	32.1	5.8	33.9	-	52.8	-	68.2	-	15.4	-	
Hori.	11340.0	44.1	34.2	40.1	-2.0	34.0	-	48.3	38.4	73.9	53.9	25.6	15.5	Floor noise
Hori.	17010.0	44.8	-	41.1	-0.4	33.1	-	52.5	-	68.2	-	15.7	-	Floor noise
Vert.	5725.0	50.0	-	32.1	5.8	33.9	-	53.9	-	68.2	-	14.3	-	
Vert.	11340.0	44.3	34.3	40.1	-2.0	34.0	-	48.4	38.5	73.9	53.9	25.5	15.4	Floor noise
Vert.	17010.0	45.0	-	41.1	-0.4	33.1	-	52.6	-	68.2	-	15.6	-	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

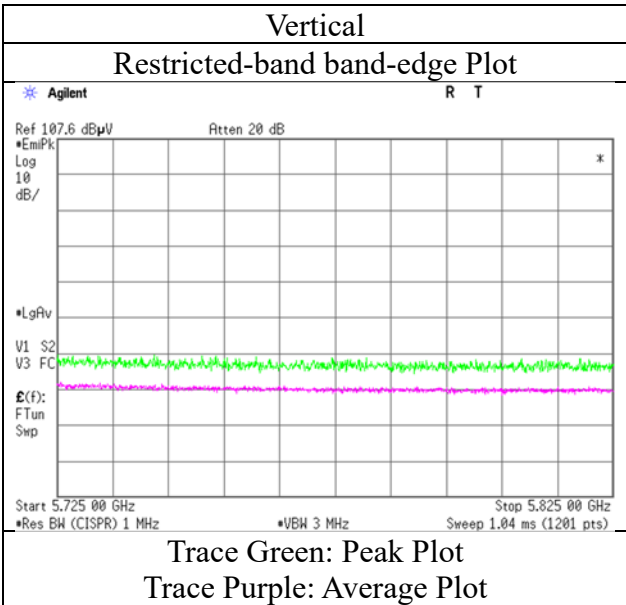
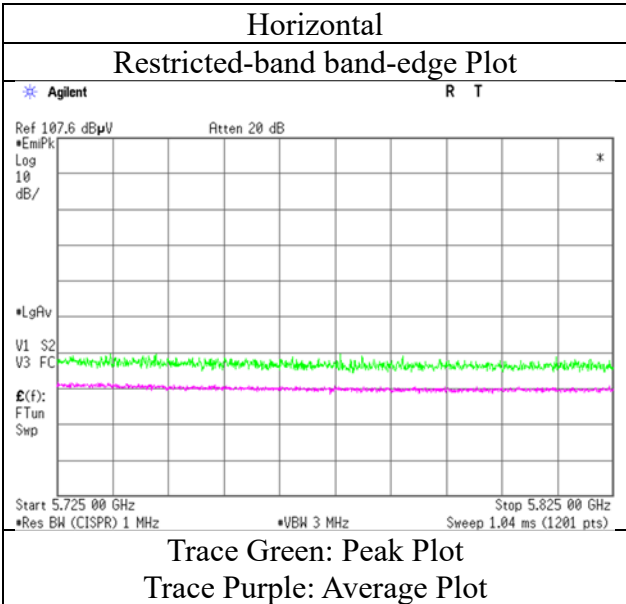
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor:	1 GHz - 10 GHz	$20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
	10 GHz - 40 GHz	$20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5670 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5755 MHz (OFDM)			

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]	[dBm]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	44.5	-	31.9	5.8	33.9	-	48.4	-	68.2	-	19.9	-	
Hori.	5700.0	46.9	-	32.0	5.8	33.9	-	50.8	-	105.2	-	54.4	-	
Hori.	5720.0	57.1	-	32.0	5.8	33.9	-	61.0	-	110.8	-	49.8	-	
Hori.	5725.0	63.5	-	32.1	5.8	33.9	-	67.4	-	122.2	-	54.8	-	
Hori.	11510.0	44.1	34.1	40.0	-1.8	33.9	-	48.4	38.4	73.9	53.9	25.5	15.5	Floor noise
Hori.	17265.0	44.7	-	42.4	-0.3	33.0	-	53.8	-	68.2	-	14.4	-	Floor noise
Vert.	5650.0	44.6	-	31.9	5.8	33.9	-	48.4	-	68.2	-	19.8	-	
Vert.	5700.0	45.5	-	32.0	5.8	33.9	-	49.4	-	105.2	-	55.8	-	
Vert.	5720.0	58.7	-	32.0	5.8	33.9	-	62.7	-	110.8	-	48.2	-	
Vert.	5725.0	62.7	-	32.1	5.8	33.9	-	66.7	-	122.2	-	55.5	-	
Vert.	11510.0	44.2	34.0	40.0	-1.8	33.9	-	48.4	38.3	73.9	53.9	25.5	15.7	Floor noise
Vert.	17265.0	44.9	-	42.4	-0.3	33.0	-	54.0	-	68.2	-	14.2	-	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).

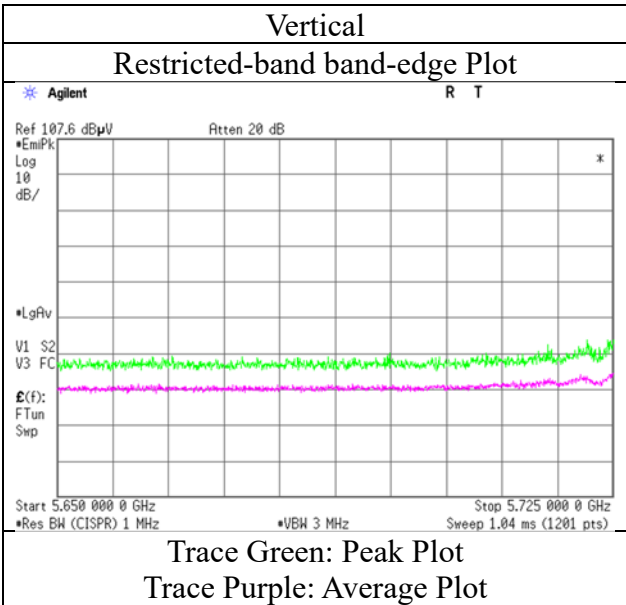
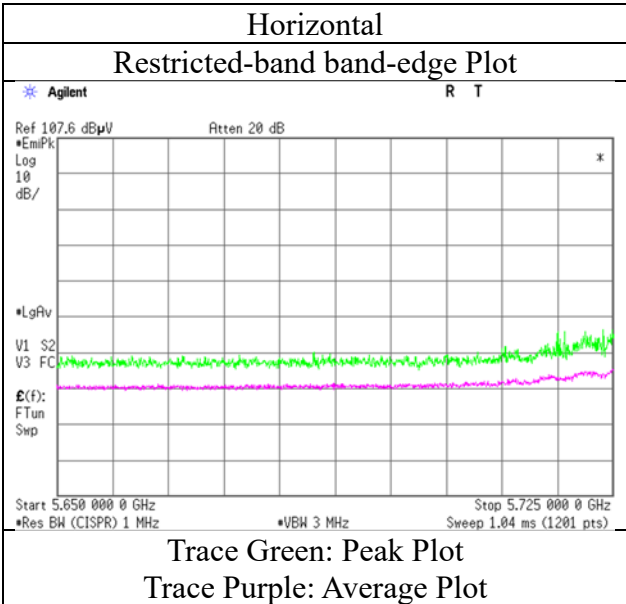
*QP detector was used up to 1GHz.

Distance factor:

1 GHz - 10 GHz	$20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
10 GHz - 40 GHz	$20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-40 5795 MHz (OFDM)			

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.	5850.0	47.2	-	32.4	5.9	33.9	-	51.5	-	122.2	-	70.7	-	
Hori.	5855.0	46.2	-	32.4	5.9	33.9	-	50.5	-	110.8	-	60.3	-	
Hori.	5875.0	45.2	-	32.4	5.9	33.9	-	49.5	-	105.2	-	55.7	-	
Hori.	5925.0	44.2	-	32.5	5.9	33.9	-	48.6	-	68.2	-	19.6	-	
Hori.	11590.0	44.1	34.2	39.7	-1.8	33.9	-	48.1	38.2	73.9	53.9	25.8	15.7	Floor noise
Hori.	17385.0	44.9	-	43.2	-0.3	32.9	-	54.9	-	68.2	-	13.4	-	Floor noise
Vert.	5850.0	49.8	-	32.4	5.9	33.9	-	54.1	-	122.2	-	68.1	-	
Vert.	5855.0	49.1	-	32.4	5.9	33.9	-	53.4	-	110.8	-	57.4	-	
Vert.	5875.0	45.5	-	32.4	5.9	33.9	-	49.8	-	105.2	-	55.4	-	
Vert.	5925.0	44.2	-	32.5	5.9	33.9	-	48.6	-	68.2	-	19.6	-	
Vert.	11590.0	43.9	34.1	39.7	-1.8	33.9	-	48.0	38.2	73.9	53.9	25.9	15.7	Floor noise
Vert.	17385.0	45.0	-	43.2	-0.3	32.9	-	55.0	-	68.2	-	13.2	-	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

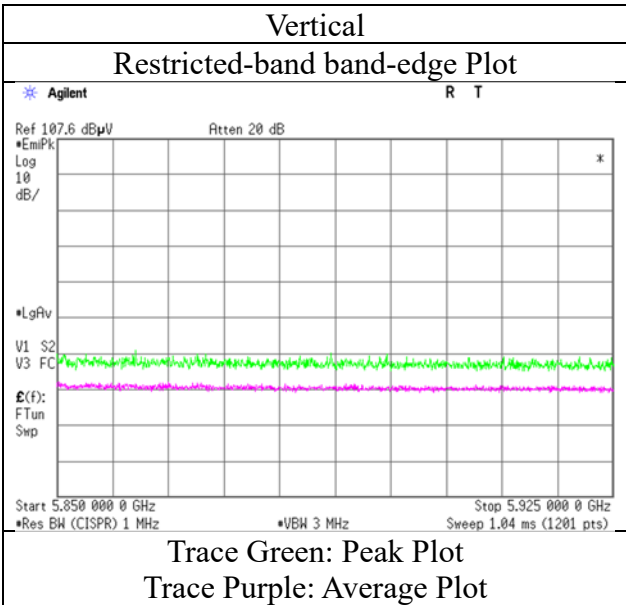
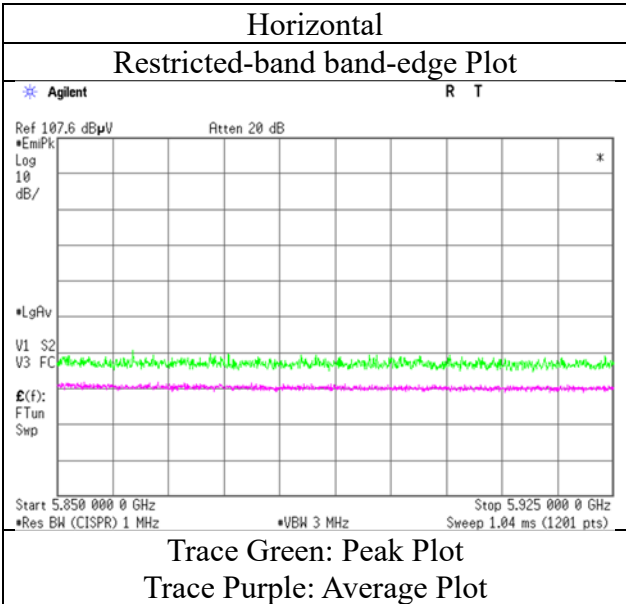
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor:	1 GHz - 10 GHz	20log (3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5795 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-80 5210 MHz (OFDM)			

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.	5150.0	54.7	39.3	32.1	5.7	34.1	0.2	58.3	43.1	73.9	53.9	15.6	10.8	*1)
Hori.	10420.0	44.3	-	39.7	-2.4	34.5	-	47.0	-	68.2	-	21.2	-	Floor noise
Hori.	15630.0	46.6	36.6	37.7	-0.8	33.6	-	49.9	39.9	73.9	53.9	24.0	14.0	Floor noise
Vert.	5150.0	52.2	36.5	32.1	5.7	34.1	0.2	55.9	40.3	73.9	53.9	18.0	13.6	*1)
Vert.	10420.0	44.4	-	39.7	-2.4	34.5	-	47.1	-	68.2	-	21.1	-	Floor noise
Vert.	15630.0	46.4	36.5	37.7	-0.8	33.6	-	49.7	39.8	73.9	53.9	24.2	14.1	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).

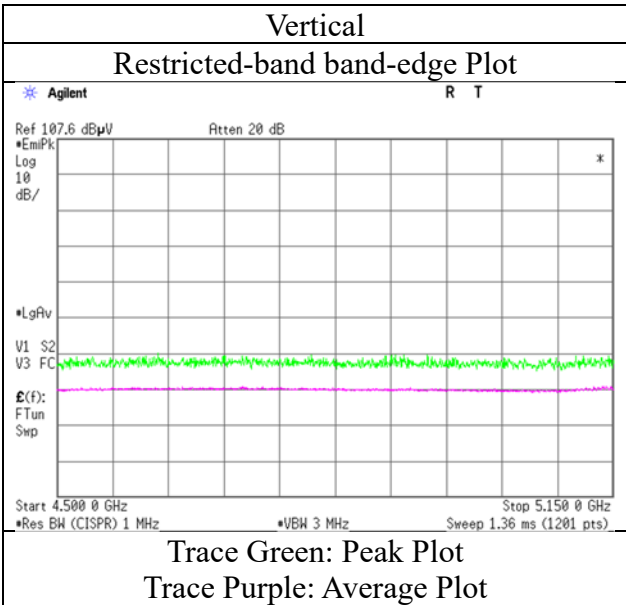
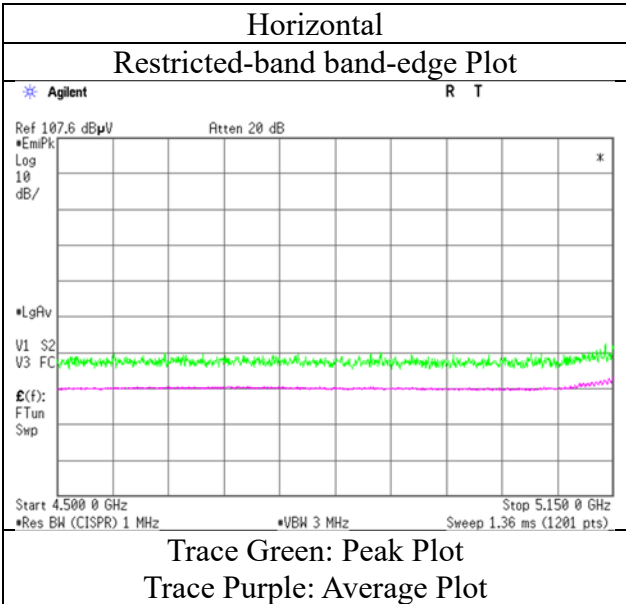
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	20log(3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5210 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-80 5290 MHz (OFDM)			

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.	5350.0	58.2	44.4	31.8	5.7	34.0	0.2	61.7	48.1	73.9	53.9	12.2	5.8	*1)
Hori.	10580.0	43.9	-	39.5	-2.4	34.3	-	46.6	-	68.2	-	21.6	-	Floor noise
Hori.	15870.0	45.8	36.2	37.6	-0.7	33.8	-	48.9	39.3	73.9	53.9	25.0	14.6	Floor noise
Vert.	5350.0	55.5	42.5	31.8	5.7	34.0	0.2	59.1	46.2	73.9	53.9	14.8	7.7	*1)
Vert.	10580.0	44.0	-	39.5	-2.4	34.3	-	46.7	-	68.2	-	21.5	-	Floor noise
Vert.	15870.0	45.4	36.1	37.6	-0.7	33.8	-	48.5	39.2	73.9	53.9	25.4	14.7	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).

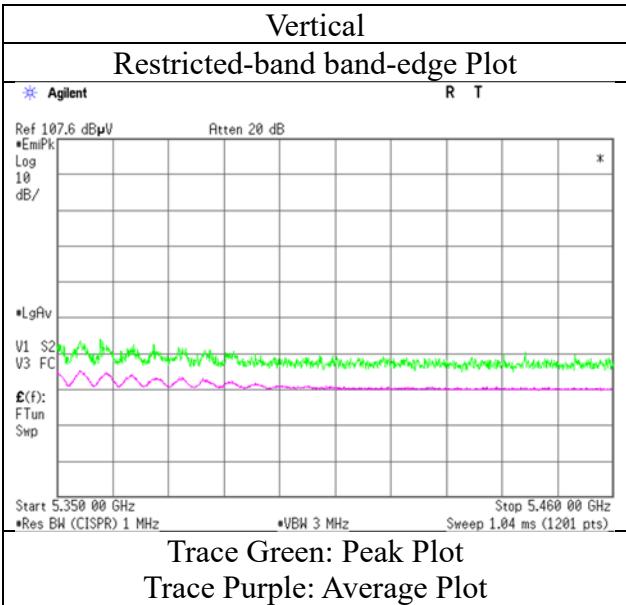
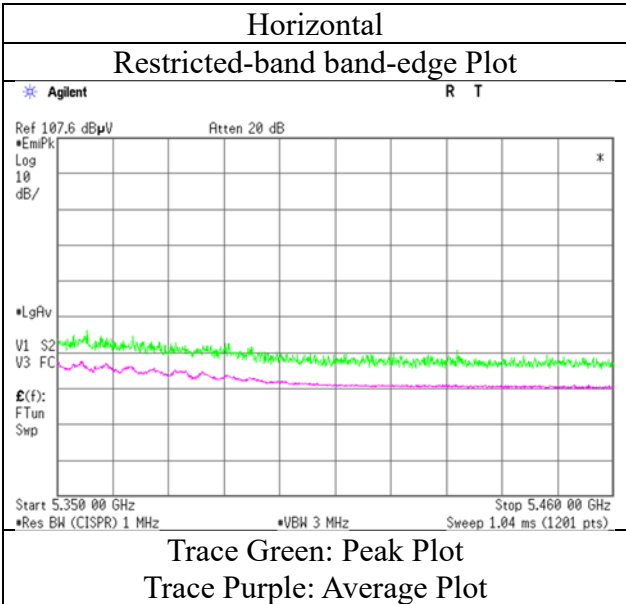
*QP detector was used up to 1GHz.

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

Distance factor:	1 GHz - 10 GHz	20log(3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5290 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-80 5530 MHz (OFDM)			

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.	5460.0	53.5	38.8	31.9	5.8	33.9	0.2	57.2	42.8	68.2	53.9	11.0	11.2	*1)
Hori.	5470.0	55.9	-	31.9	5.8	33.9	-	59.7	-	68.2	-	8.5	-	
Hori.	11060.0	44.3	34.8	40.0	-2.2	34.0	-	48.1	38.5	73.9	53.9	25.8	15.4	Floor noise
Hori.	16590.0	45.3	-	40.2	-0.5	33.4	-	51.7	-	68.2	-	16.5	-	Floor noise
Vert.	5460.0	52.0	38.7	31.9	5.8	33.9	0.2	55.8	42.6	68.2	53.9	12.4	11.3	*1)
Vert.	5470.0	54.3	-	31.9	5.8	33.9	-	58.1	-	68.2	-	10.1	-	
Vert.	11060.0	44.2	34.9	40.0	-2.2	34.0	-	48.0	38.6	73.9	53.9	25.9	15.3	Floor noise
Vert.	16590.0	45.5	-	40.2	-0.5	33.4	-	51.9	-	68.2	-	16.3	-	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:	1 GHz - 10 GHz	20log(3.7 m / 3.0 m) = 1.83 dB
	10 GHz - 40 GHz	20log(1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

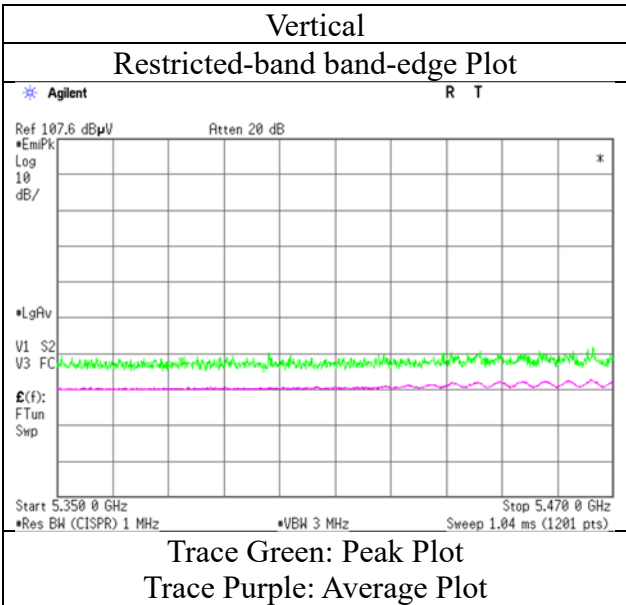
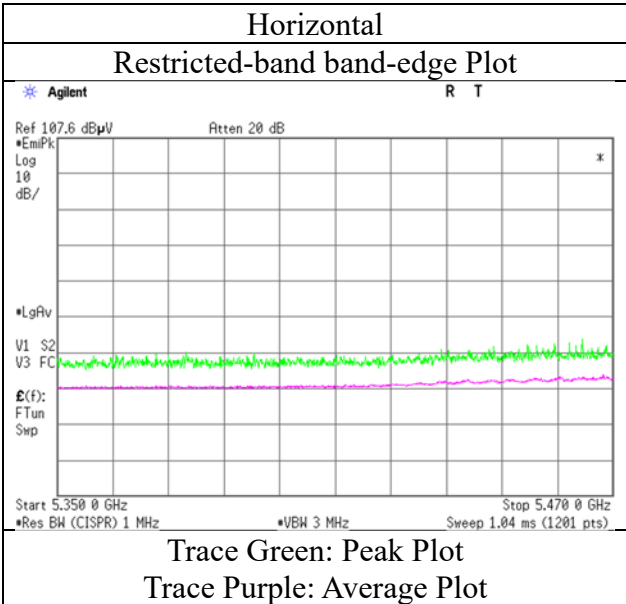
January 20, 2023

20 deg. C / 40 % RH

Yuichiro Yamazaki

(1 GHz - 10 GHz)

Tx 11ax-80 5530 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-80 5610 MHz (OFDM)			

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.	5725.0	48.2	-	32.1	5.8	33.9	-	52.2	-	68.2	-	16.0	-	
Hori.	11220.0	44.2	34.9	39.9	-2.1	34.0	-	48.0	38.7	73.9	53.9	25.9	15.2	Floor noise
Hori.	16830.0	45.1	-	40.8	-0.4	33.2	-	52.2	-	68.2	-	16.0	-	Floor noise
Vert.	5725.0	47.4	-	32.1	5.8	33.9	-	51.4	-	68.2	-	16.8	-	
Vert.	11220.0	44.6	34.8	39.9	-2.1	34.0	-	48.4	38.6	73.9	53.9	25.5	15.3	Floor noise
Vert.	16830.0	45.3	-	40.8	-0.4	33.2	-	52.5	-	68.2	-	15.8	-	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

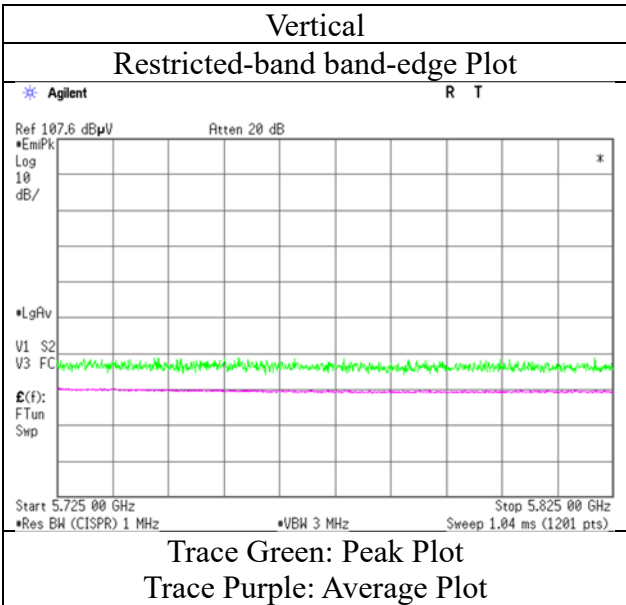
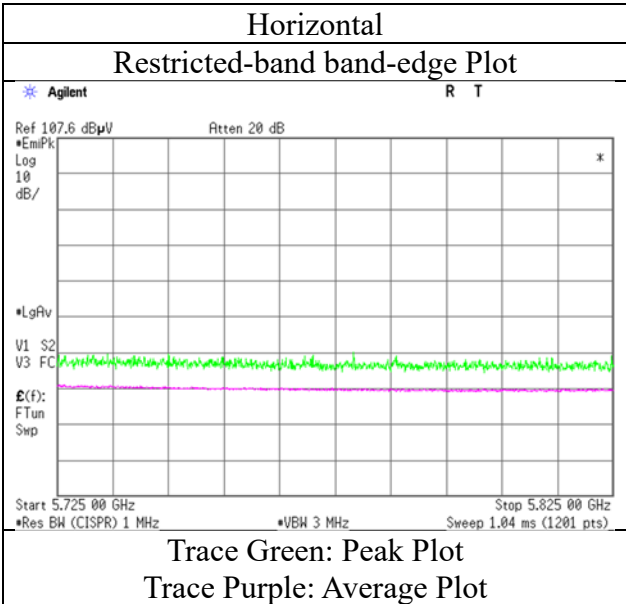
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5610 MHz (OFDM)



* 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

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-80 5690 MHz (OFDM)			

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.	11380.0	44.7	34.4	40.1	-1.9	33.9	-	49.0	38.6	73.9	53.9	24.9	15.3	Floor noise
Hori.	17070.0	44.8	-	41.3	-0.4	33.0	-	52.7	-	68.2	-	15.5	-	Floor noise
Vert.	11380.0	44.6	34.3	40.1	-1.9	33.9	-	48.9	38.6	73.9	53.9	25.0	15.3	Floor noise
Vert.	17070.0	44.6	-	41.3	-0.4	33.0	-	52.5	-	68.2	-	15.8	-	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.

Distance factor:	1 GHz - 10 GHz	$20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
	10 GHz - 40 GHz	$20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.2
Date	January 20, 2023	January 22, 2023	January 23, 2023	January 23, 2023
Temperature / Humidity	20 deg. C / 40 % RH	18 deg. C / 40 % RH	18 deg. C / 41 % RH	24 deg. C / 43 % RH
Engineer	Yuichiro Yamazaki	Yuichiro Yamazaki	Takumi Nishida	Yuichiro Yamazaki
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ax-80 5775 MHz (OFDM)			

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]	[dBm]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	46.1	-	31.9	5.8	33.9	-	49.9	-	68.2	-	18.3	-	
Hori.	5700.0	60.4	-	32.0	5.8	33.9	-	64.3	-	105.2	-	40.9	-	
Hori.	5720.0	63.4	-	32.0	5.8	33.9	-	67.4	-	110.8	-	43.4	-	
Hori.	5725.0	62.6	-	32.1	5.8	33.9	-	66.5	-	122.2	-	55.7	-	
Hori.	5850.0	53.5	-	32.4	5.9	33.9	-	57.8	-	122.2	-	64.4	-	
Hori.	5855.0	54.1	-	32.4	5.9	33.9	-	58.4	-	110.8	-	52.4	-	
Hori.	5875.0	51.8	-	32.4	5.9	33.9	-	56.1	-	105.2	-	49.1	-	
Hori.	5925.0	44.6	-	32.5	5.9	33.9	-	49.0	-	68.2	-	19.2	-	
Hori.	11550.0	43.7	34.0	39.8	-1.8	33.9	-	47.8	38.1	73.9	53.9	26.1	15.8	Floor noise
Hori.	17325.0	44.8	-	42.8	-0.3	33.0	-	54.4	-	68.2	-	13.8	-	Floor noise
Vert.	5650.0	45.7	-	31.9	5.8	33.9	-	49.6	-	68.2	-	18.7	-	
Vert.	5700.0	58.9	-	32.0	5.8	33.9	-	62.8	-	105.2	-	42.4	-	
Vert.	5720.0	59.2	-	32.0	5.8	33.9	-	63.2	-	110.8	-	47.6	-	
Vert.	5725.0	59.8	-	32.1	5.8	33.9	-	63.8	-	122.2	-	58.4	-	
Vert.	5850.0	54.5	-	32.4	5.9	33.9	-	58.8	-	122.2	-	63.5	-	
Vert.	5855.0	55.0	-	32.4	5.9	33.9	-	59.3	-	110.8	-	51.5	-	
Vert.	5875.0	53.7	-	32.4	5.9	33.9	-	58.1	-	105.2	-	47.1	-	
Vert.	5925.0	44.7	-	32.5	5.9	33.9	-	49.1	-	68.2	-	19.1	-	
Vert.	11550.0	43.7	33.9	39.8	-1.8	33.9	-	47.8	38.0	73.9	53.9	26.1	15.9	Floor noise
Vert.	17325.0	44.9	-	42.8	-0.3	33.0	-	54.4	-	68.2	-	13.8	-	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

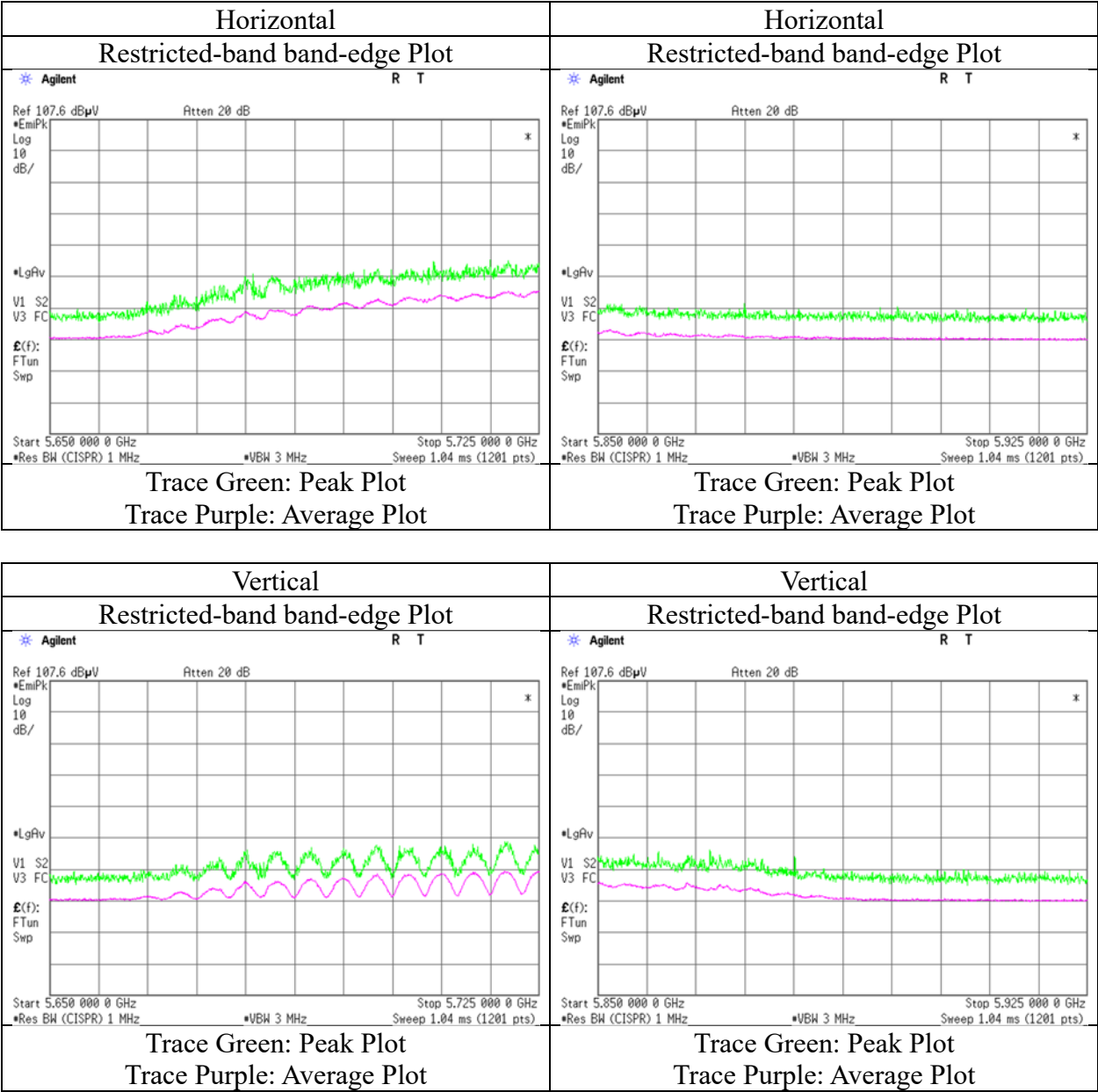
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$
 10 GHz - 40 GHz $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 20, 2023
Temperature / Humidity	20 deg. C / 40 % RH
Engineer	Yuichiro Yamazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-80 5775 MHz (OFDM)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5180 MHz (26-tone RU)

RU Index 0

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.	5150.0	43.5	34.1	32.1	5.7	34.1	0.3	47.1	38.0	73.9	53.9	26.8	15.9	*1)
Vert.	5150.0	43.2	33.9	32.1	5.7	34.1	0.3	46.9	37.8	73.9	53.9	27.0	16.1	*1)

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).

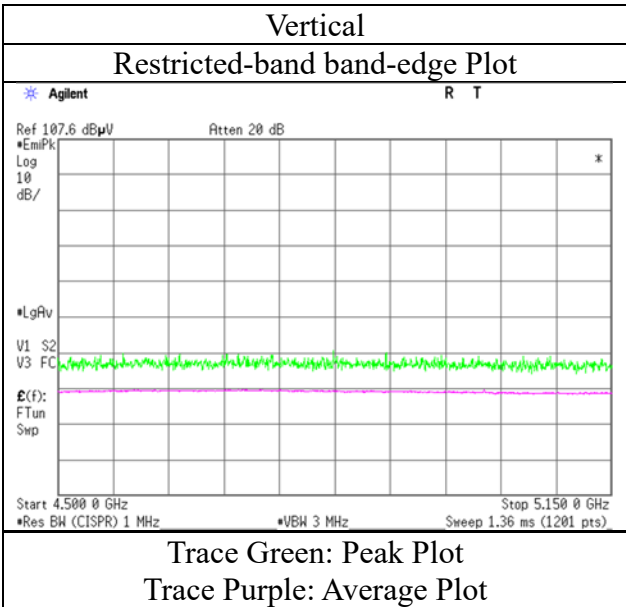
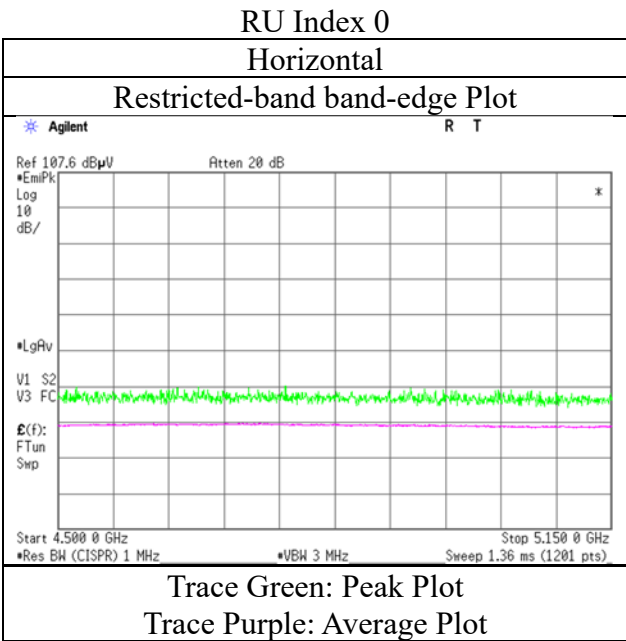
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (26-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5180 MHz (52-tone RU)

RU Index 37

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.	5150.0	43.6	34.3	32.1	5.7	34.1	0.3	47.2	38.2	73.9	53.9	26.7	15.7	*1)
Vert.	5150.0	44.0	34.1	32.1	5.7	34.1	0.3	47.7	38.0	73.9	53.9	26.3	16.0	*1)

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.

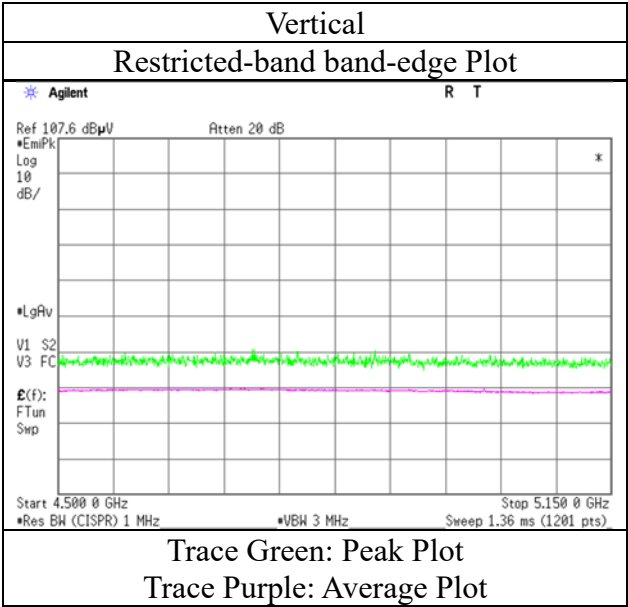
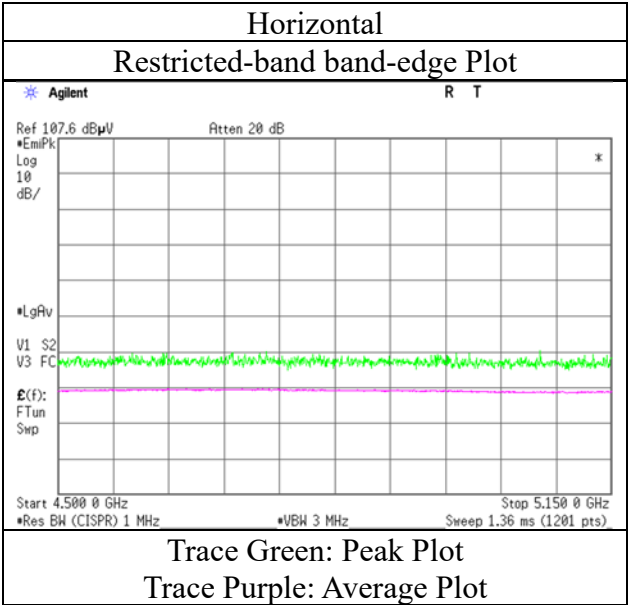
*1) Not Out of Band emission(Leakage Power)

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (52-tone RU)

RU Index 37



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5180 MHz (106-tone RU)

RU Index 53

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.	5150.0	44.1	34.8	32.1	5.7	34.1	0.3	47.8	38.7	73.9	53.9	26.1	15.2	*1)
Vert.	5150.0	43.6	34.4	32.1	5.7	34.1	0.3	47.2	38.3	73.9	53.9	26.7	15.6	*1)

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).

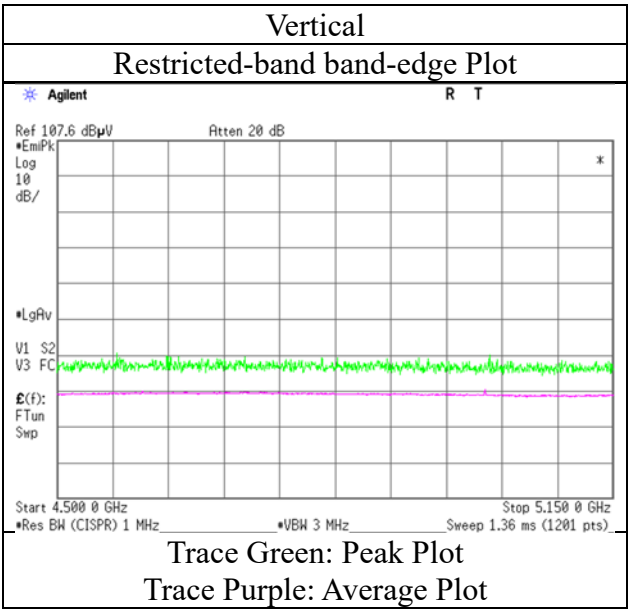
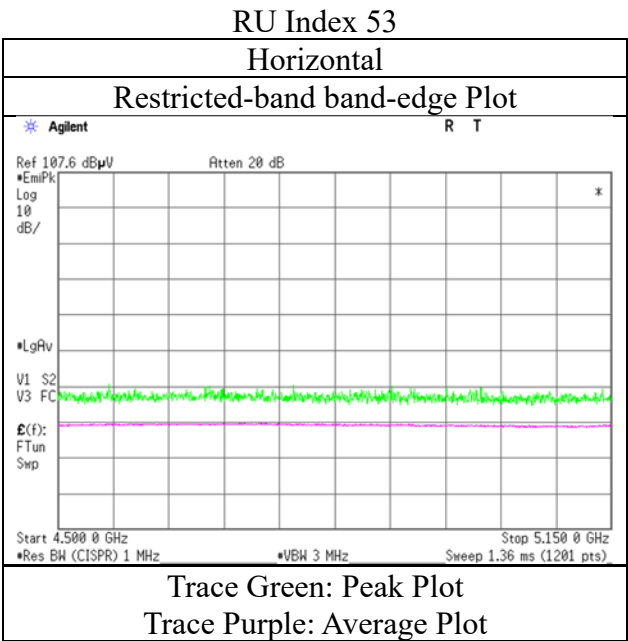
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (106-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5180 MHz (242-tone RU)

RU Index 61

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.	5150.0	44.9	35.7	32.1	5.7	34.1	0.3	48.5	39.6	73.9	53.9	25.4	14.3	*1)
Vert.	5150.0	44.1	35.0	32.1	5.7	34.1	0.3	47.8	38.9	73.9	53.9	26.2	15.0	*1)

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).

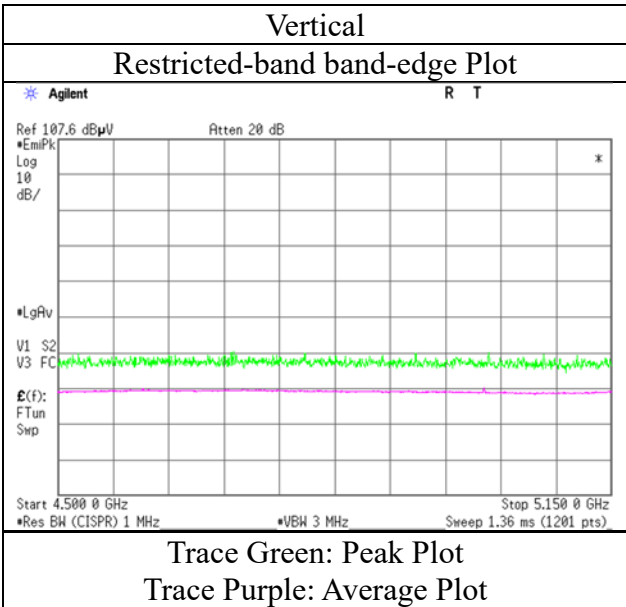
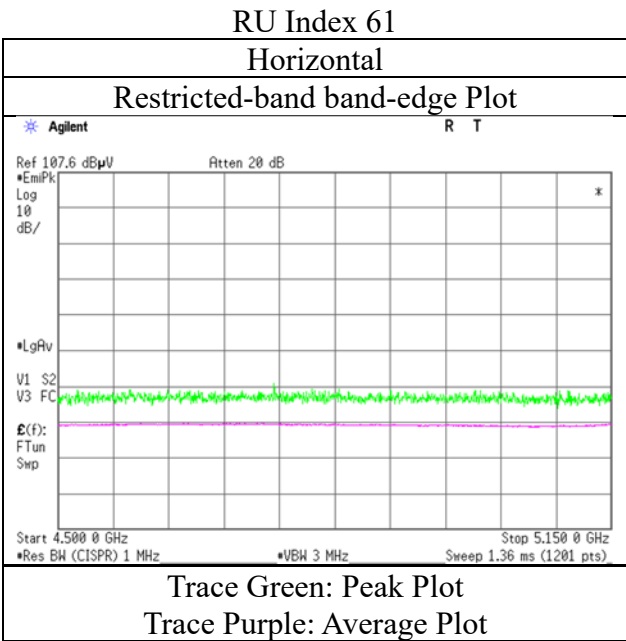
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5180 MHz (242-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5320 MHz (26-tone RU)

RU Index 8

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.	5350.0	44.0	34.8	31.8	5.7	34.0	0.3	47.5	38.5	73.9	53.9	26.4	15.4	*1)
Vert.	5350.0	43.4	34.6	31.8	5.7	34.0	0.3	47.0	38.4	73.9	53.9	27.0	15.5	*1)

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: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

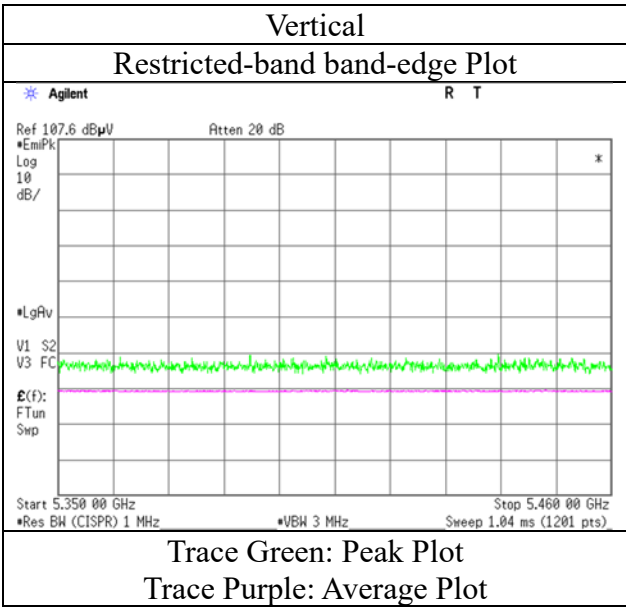
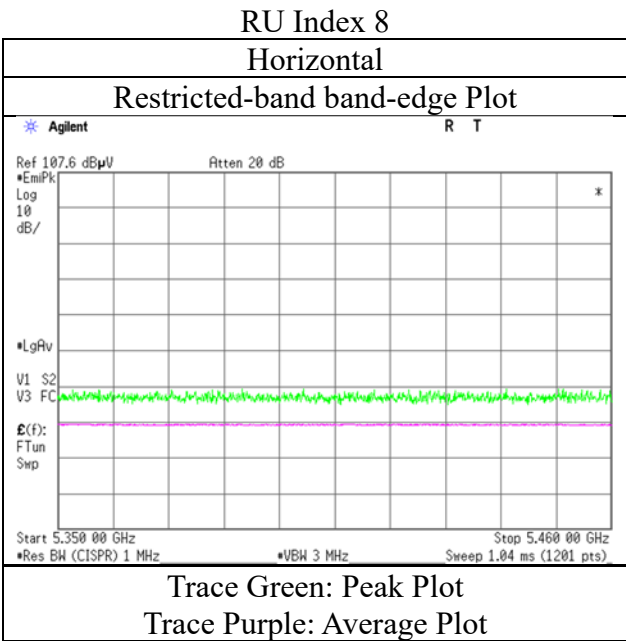
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5320 MHz (26-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (52-tone RU)

RU Index 40

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.	5350.0	44.6	35.1	31.8	5.7	34.0	0.3	48.1	38.9	73.9	53.9	25.8	15.0	*1)
Vert.	5350.0	44.3	34.7	31.8	5.7	34.0	0.3	47.8	38.5	73.9	53.9	26.1	15.4	*1)

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: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

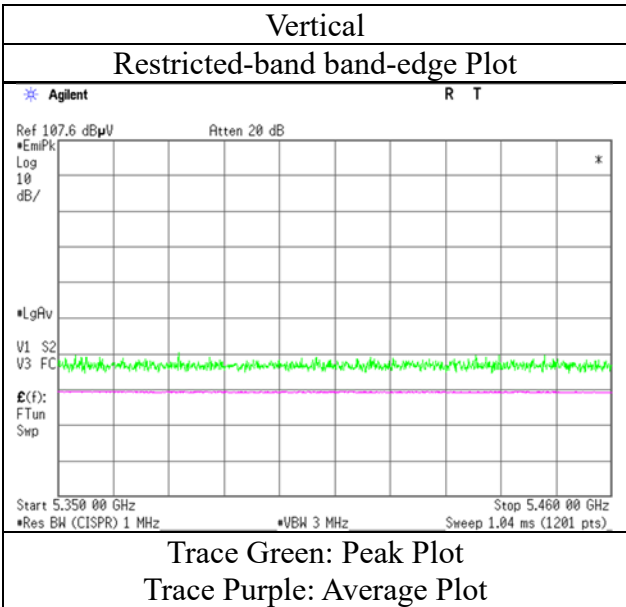
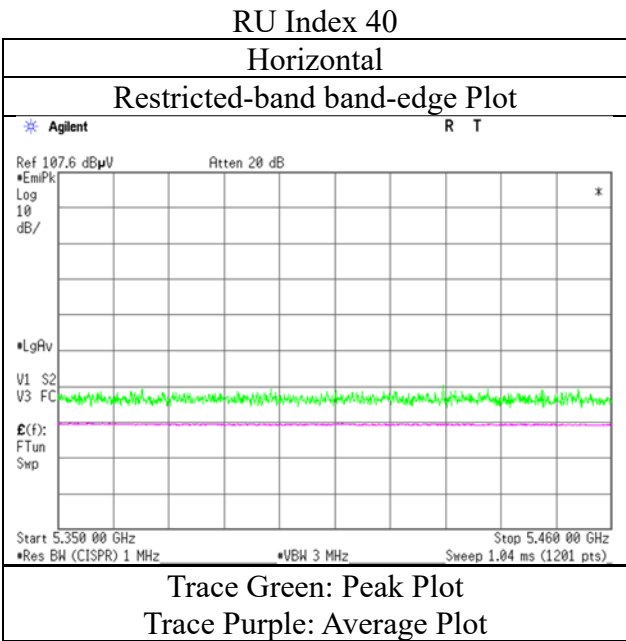
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5320 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki (1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (106-tone RU)

RU Index 54

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.	5350.0	45.6	36.5	31.8	5.7	34.0	0.3	49.1	40.3	73.9	53.9	24.8	13.6	*1)
Vert.	5350.0	44.6	35.6	31.8	5.7	34.0	0.3	48.1	39.4	73.9	53.9	25.8	14.5	*1)

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).

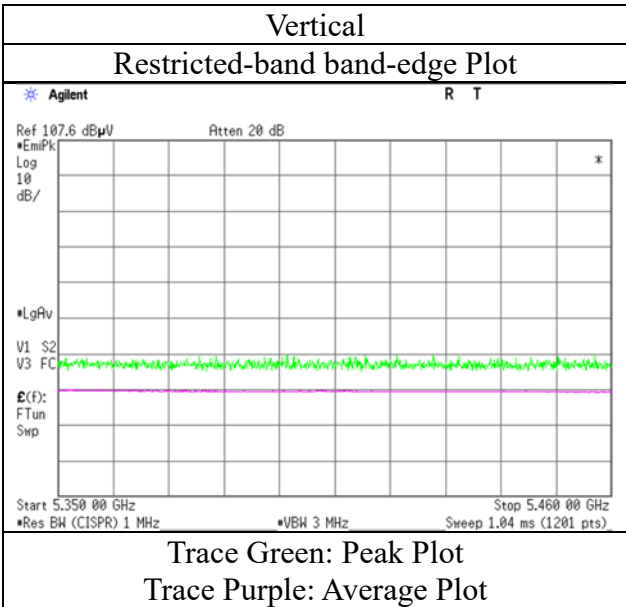
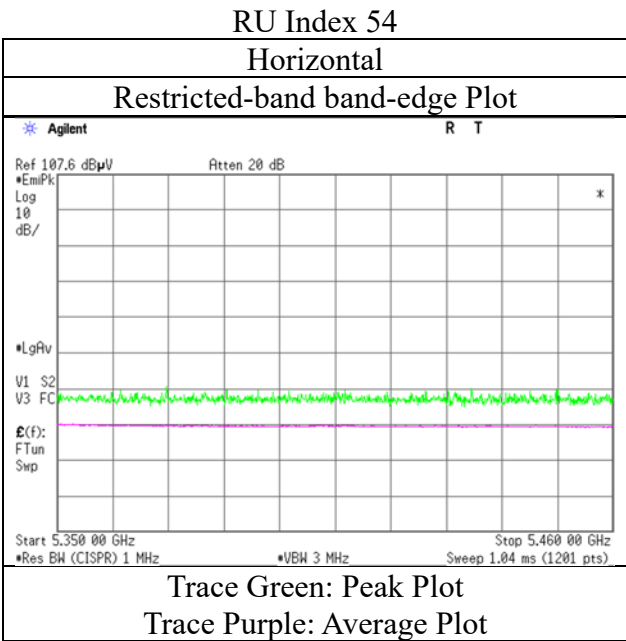
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5320 MHz (242-tone RU)

RU Index 61

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.	5350.0	47.6	38.1	31.8	5.7	34.0	0.3	51.1	41.9	73.9	53.9	22.8	12.0	*1)
Vert.	5350.0	46.2	36.7	31.8	5.7	34.0	0.3	49.7	40.5	73.9	53.9	24.2	13.4	*1)

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: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

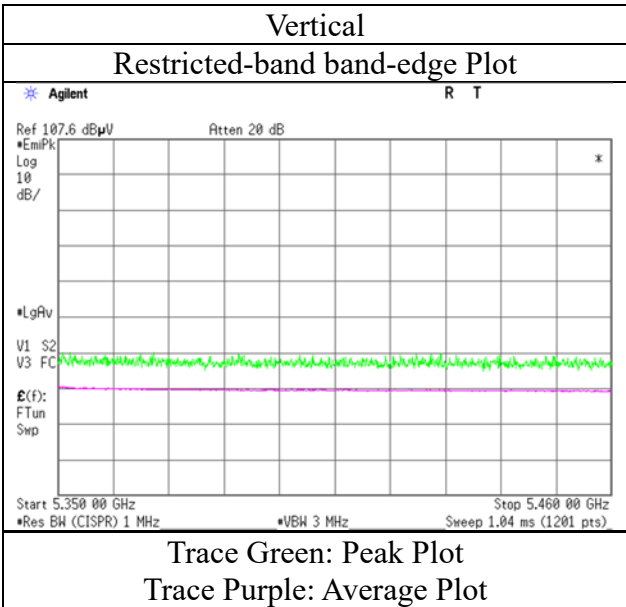
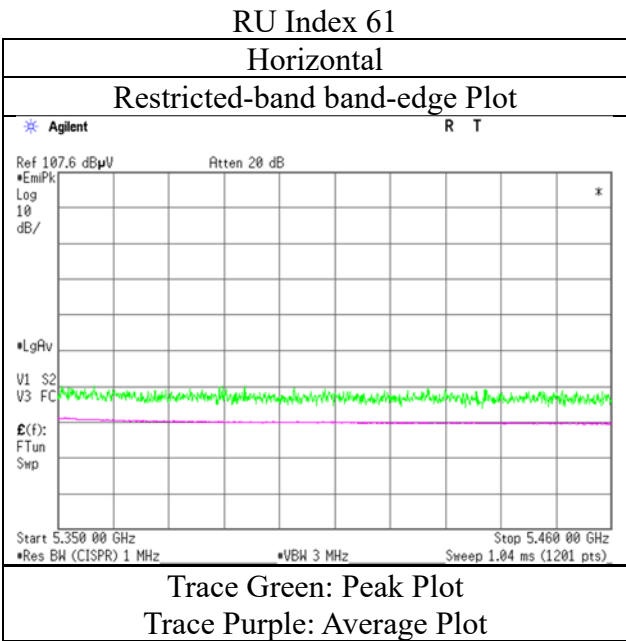
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5320 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (52-tone RU)

RU Index 37

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.	5460.0	43.4	34.8	31.9	5.8	33.9	0.3	47.2	38.8	68.2	53.9	21.0	15.1	*1)
Hori.	5470.0	44.6	-	31.9	5.8	33.9	-	48.3	-	68.2	-	19.9	-	
Vert.	5460.0	43.4	34.5	31.9	5.8	33.9	0.3	47.1	38.5	68.2	53.9	21.1	15.4	*1)
Vert.	5470.0	44.1	-	31.9	5.8	33.9	-	47.9	-	68.2	-	20.3	-	

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).

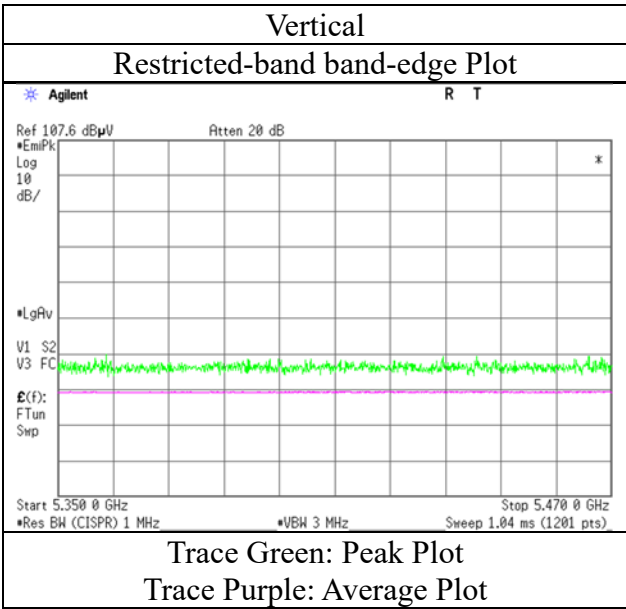
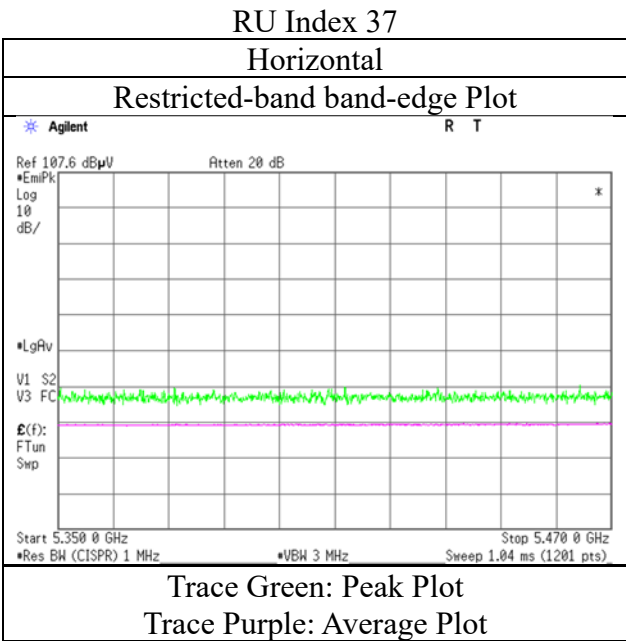
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (106-tone RU)

RU Index 53

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	44.7	35.7	31.9	5.8	33.9	0.3	48.5	39.7	68.2	53.9	19.8	14.2	*1)
Hori.	5470.0	45.6	-	31.9	5.8	33.9	-	49.4	-	68.2	-	18.8	-	
Vert.	5460.0	43.3	34.8	31.9	5.8	33.9	0.3	47.1	38.8	68.2	53.9	21.1	15.1	*1)
Vert.	5470.0	44.1	-	31.9	5.8	33.9	-	47.9	-	68.2	-	20.3	-	

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).

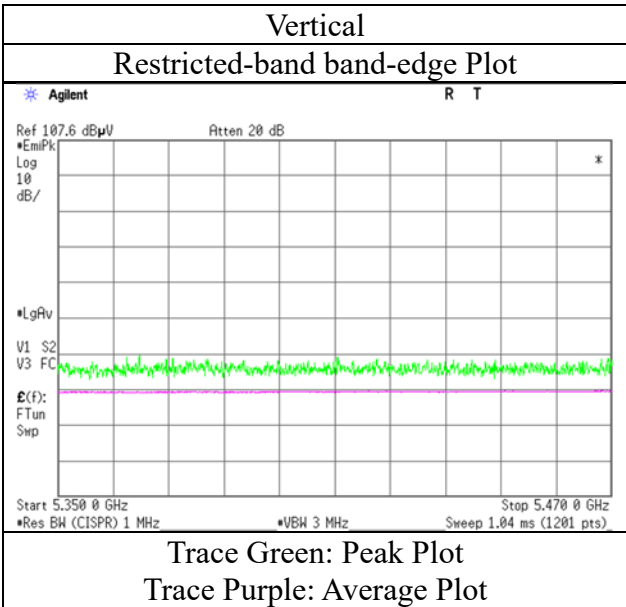
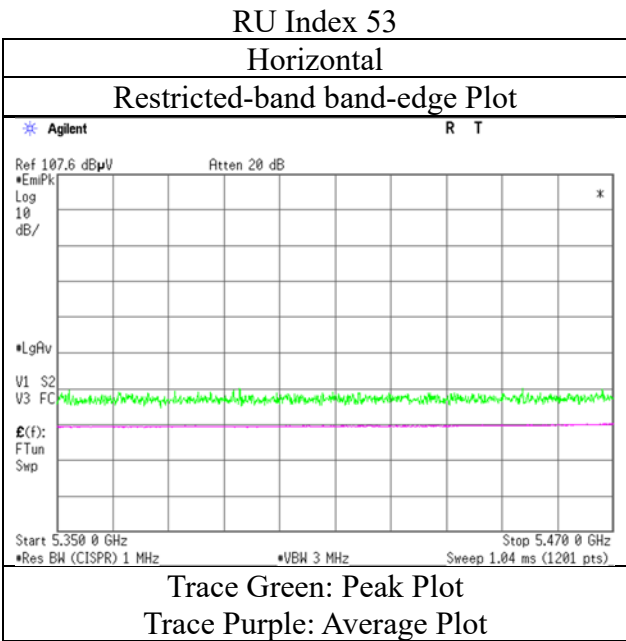
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5500 MHz (242-tone RU)

RU Index 61

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5460.0	46.8	37.5	31.9	5.8	33.9	0.3	50.6	41.5	68.2	53.9	17.6	12.4	*1)
Hori.	5470.0	47.7	-	31.9	5.8	33.9	-	51.5	-	68.2	-	16.7	-	
Vert.	5460.0	44.1	35.1	31.9	5.8	33.9	0.3	47.9	39.1	68.2	53.9	20.3	14.8	*1)
Vert.	5470.0	45.2	-	31.9	5.8	33.9	-	49.0	-	68.2	-	19.2	-	

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: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

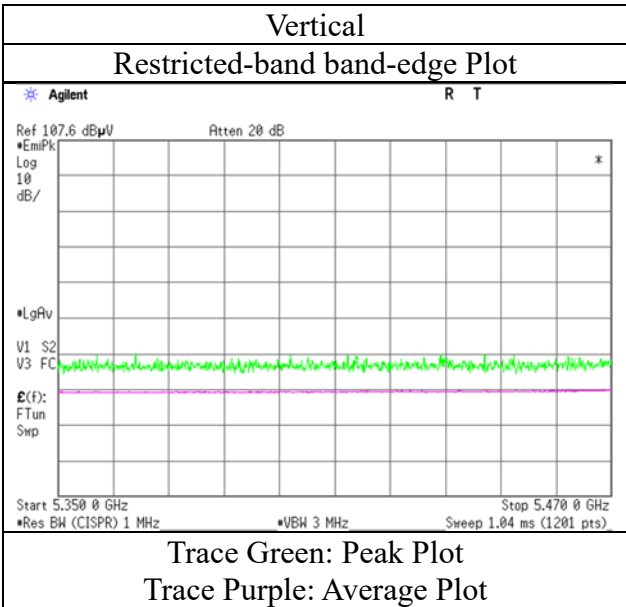
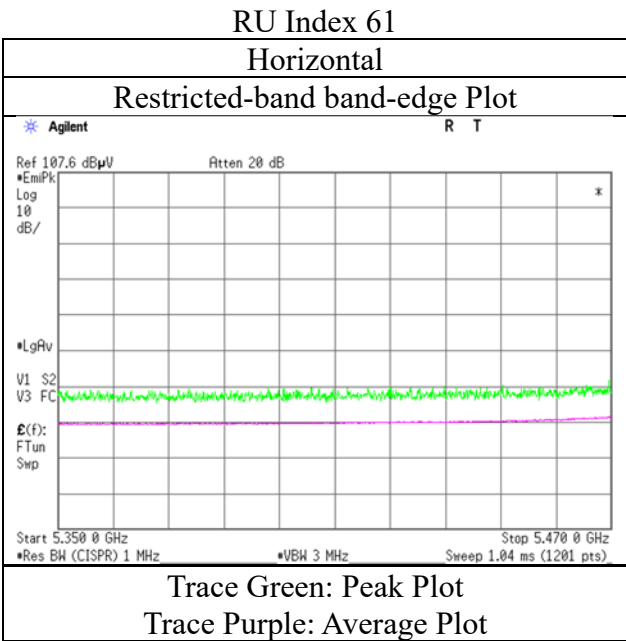
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5500 MHz (242-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5700 MHz (26-tone RU)

RU Index 8

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.	5725.0	44.4	-	32.1	5.8	33.9	-	48.4	-	68.2	-	19.9	-	
Vert.	5725.0	44.0	-	32.1	5.8	33.9	-	48.0	-	68.2	-	20.2	-	

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.

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

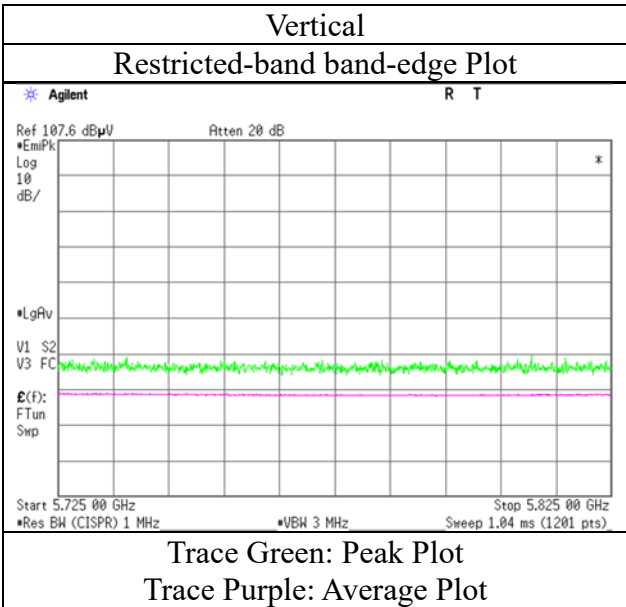
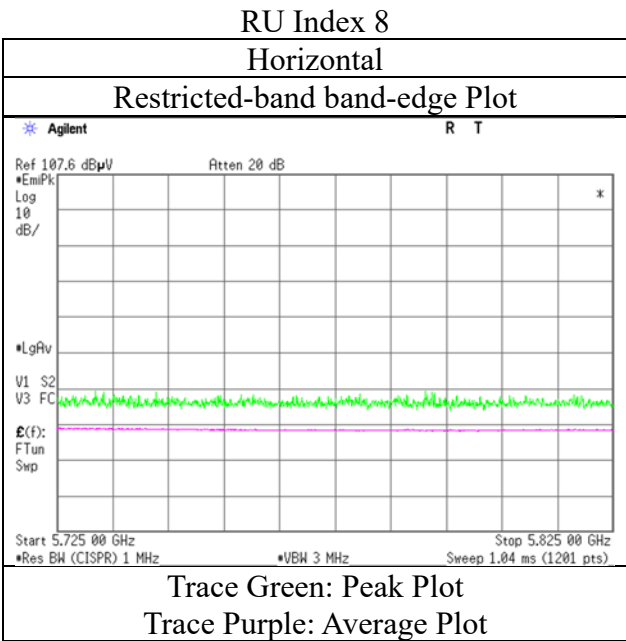
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5700 MHz (26-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5700 MHz (52-tone RU)

RU Index 40

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.	5725.0	44.5	-	32.1	5.8	33.9	-	48.4	-	68.2	-	19.8	-	
Vert.	5725.0	44.2	-	32.1	5.8	33.9	-	48.2	-	68.2	-	20.0	-	

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

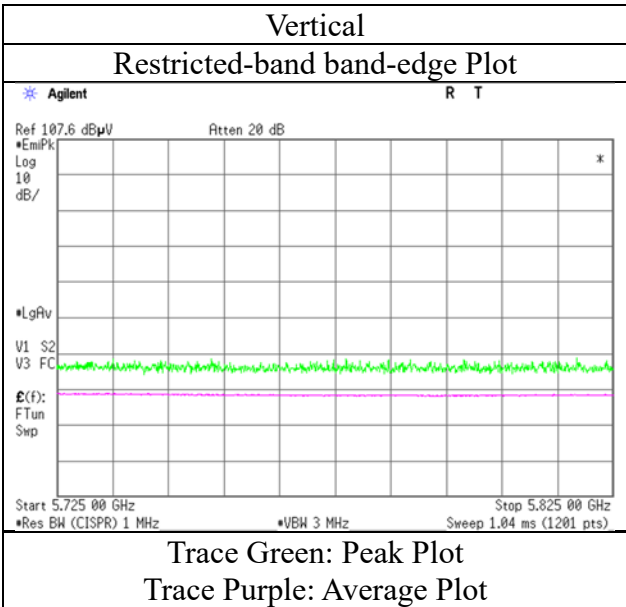
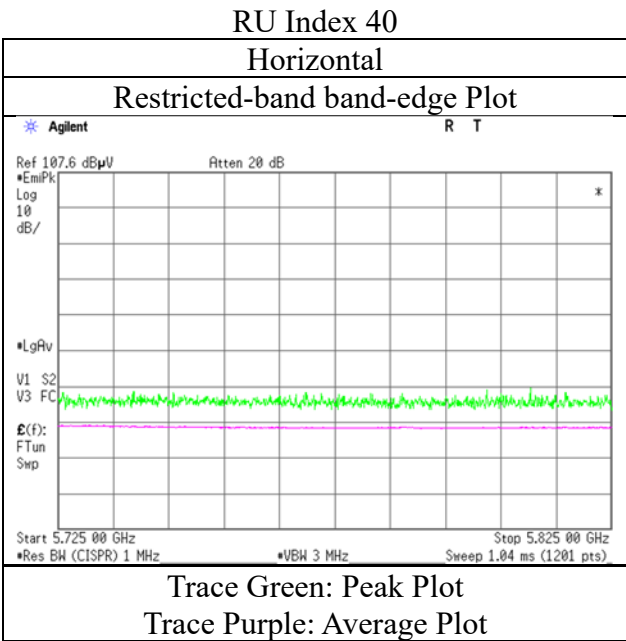
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (52-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 18, 2023
22 deg. C / 45 % RH
Kiyoshiro Okazaki
(1 GHz - 10 GHz)
Tx 11ax-20 5700 MHz (106-tone RU)

RU Index 54

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.	5725.0	46.0	-	32.1	5.8	33.9	-	50.0	-	68.2	-	18.2	-	
Vert.	5725.0	44.6	-	32.1	5.8	33.9	-	48.6	-	68.2	-	19.6	-	

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.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

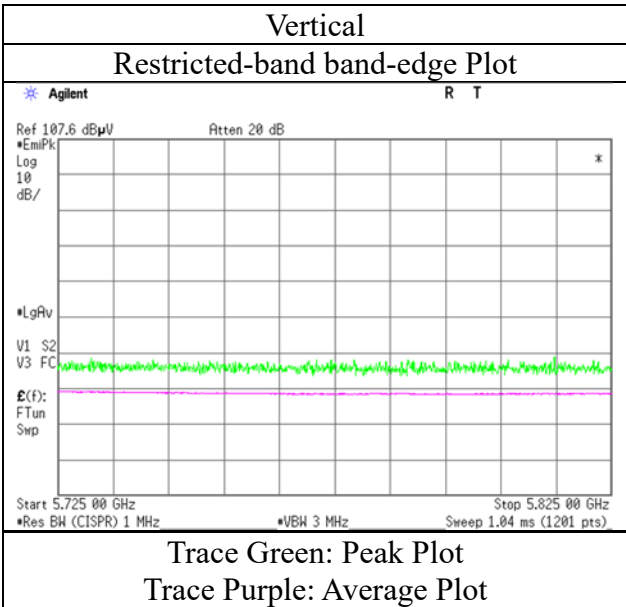
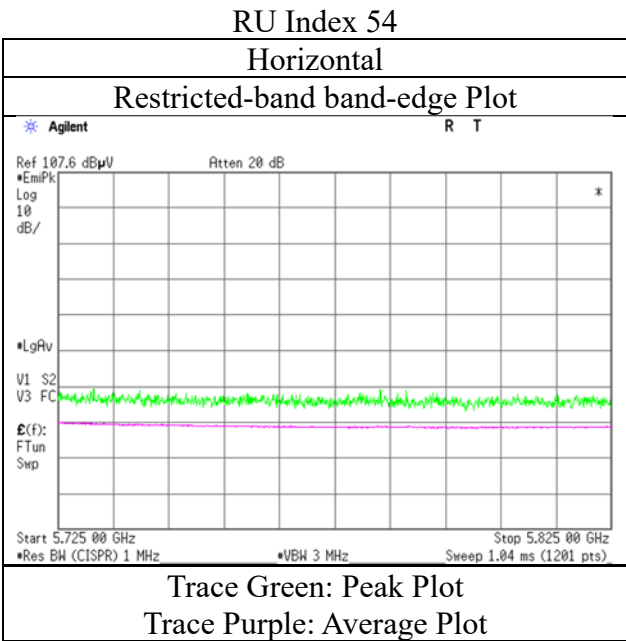
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5700 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (242-tone RU)

RU Index 61

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.	5725.0	54.7	-	32.1	5.8	33.9	-	58.7	-	68.2	-	9.6	-	
Vert.	5725.0	46.6	-	32.1	5.8	33.9	-	50.5	-	68.2	-	17.7	-	

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

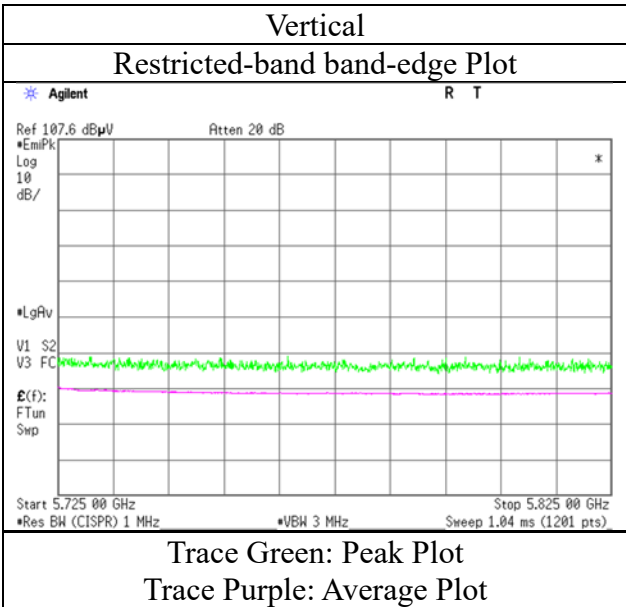
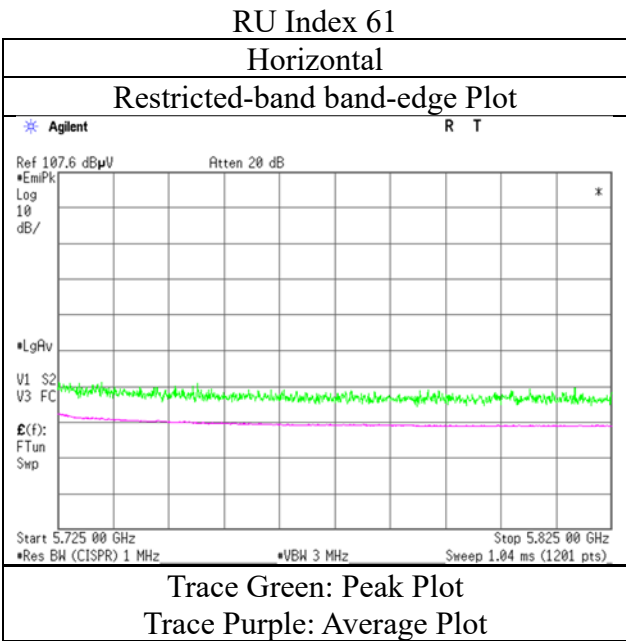
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5700 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (26-tone RU)

RU Index 0

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	42.4	-	31.9	5.8	33.9	-	46.2	-	68.2	-	22.0	-	
Hori.	5700.0	42.6	-	32.0	5.8	33.9	-	46.5	-	105.2	-	58.7	-	
Hori.	5720.0	43.6	-	32.0	5.8	33.9	-	47.5	-	110.8	-	63.3	-	
Hori.	5725.0	44.9	-	32.1	5.8	33.9	-	48.9	-	122.2	-	73.4	-	
Vert.	5650.0	42.7	-	31.9	5.8	33.9	-	46.5	-	68.2	-	21.7	-	
Vert.	5700.0	42.9	-	32.0	5.8	33.9	-	46.8	-	105.2	-	58.5	-	
Vert.	5720.0	43.5	-	32.0	5.8	33.9	-	47.5	-	110.8	-	63.3	-	
Vert.	5725.0	44.6	-	32.1	5.8	33.9	-	48.6	-	122.2	-	73.6	-	

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

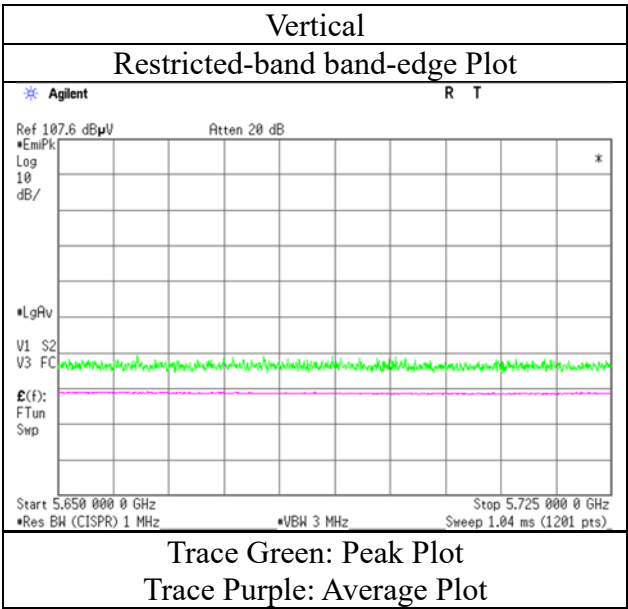
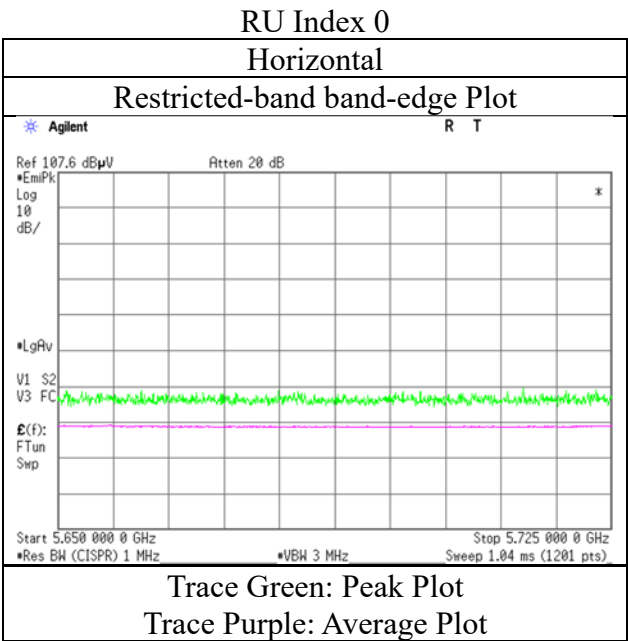
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (26-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (52-tone RU)

RU Index 37

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	43.1	-	31.9	5.8	33.9	-	46.9	-	68.2	-	21.3	-	
Hori.	5700.0	43.4	-	32.0	5.8	33.9	-	47.3	-	105.2	-	57.9	-	
Hori.	5720.0	44.2	-	32.0	5.8	33.9	-	48.2	-	110.8	-	62.7	-	
Hori.	5725.0	46.4	-	32.1	5.8	33.9	-	50.4	-	122.2	-	71.8	-	
Vert.	5650.0	42.9	-	31.9	5.8	33.9	-	46.7	-	68.2	-	21.5	-	
Vert.	5700.0	43.1	-	32.0	5.8	33.9	-	47.0	-	105.2	-	58.2	-	
Vert.	5720.0	43.7	-	32.0	5.8	33.9	-	47.6	-	110.8	-	63.2	-	
Vert.	5725.0	44.1	-	32.1	5.8	33.9	-	48.1	-	122.2	-	74.1	-	

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

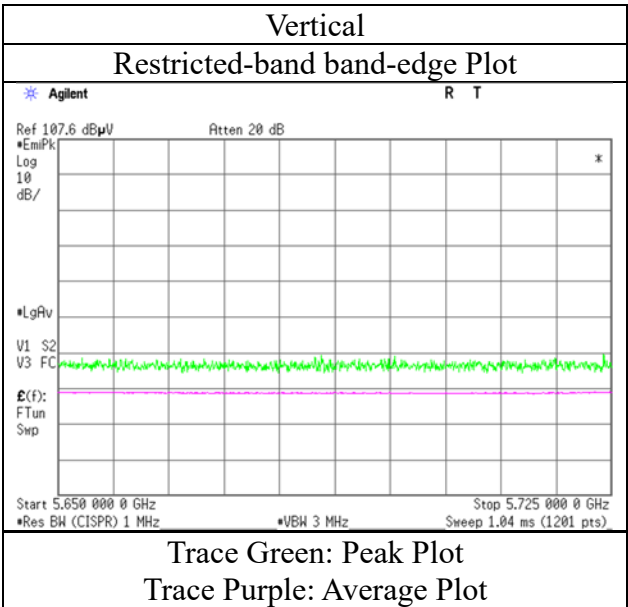
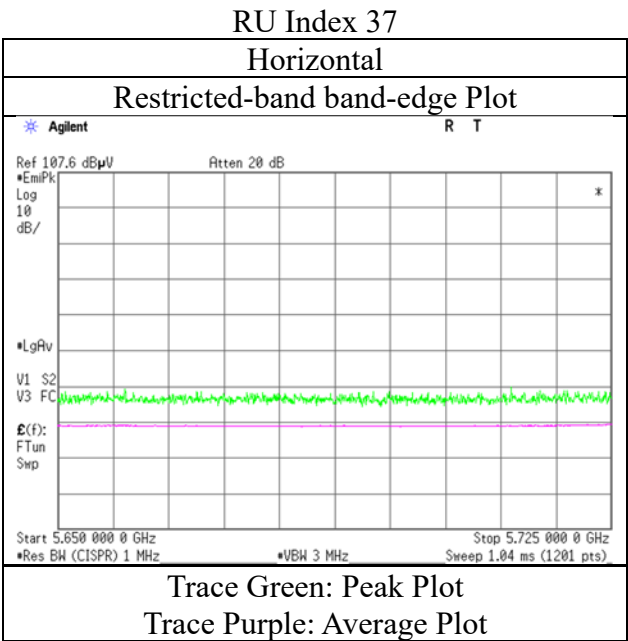
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (106-tone RU)

RU Index 53

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	43.8	-	31.9	5.8	33.9	-	47.7	-	68.2	-	20.6	-	
Hori.	5700.0	44.3	-	32.0	5.8	33.9	-	48.2	-	105.2	-	57.0	-	
Hori.	5720.0	45.6	-	32.0	5.8	33.9	-	49.5	-	110.8	-	61.3	-	
Hori.	5725.0	48.2	-	32.1	5.8	33.9	-	52.2	-	122.2	-	70.0	-	
Vert.	5650.0	42.8	-	31.9	5.8	33.9	-	46.6	-	68.2	-	21.6	-	
Vert.	5700.0	44.5	-	32.0	5.8	33.9	-	48.4	-	105.2	-	56.8	-	
Vert.	5720.0	44.7	-	32.0	5.8	33.9	-	48.6	-	110.8	-	62.2	-	
Vert.	5725.0	46.6	-	32.1	5.8	33.9	-	50.6	-	122.2	-	71.6	-	

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

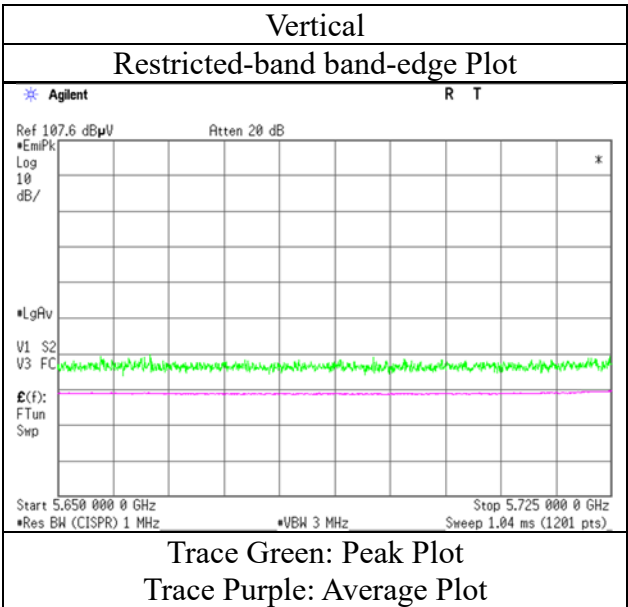
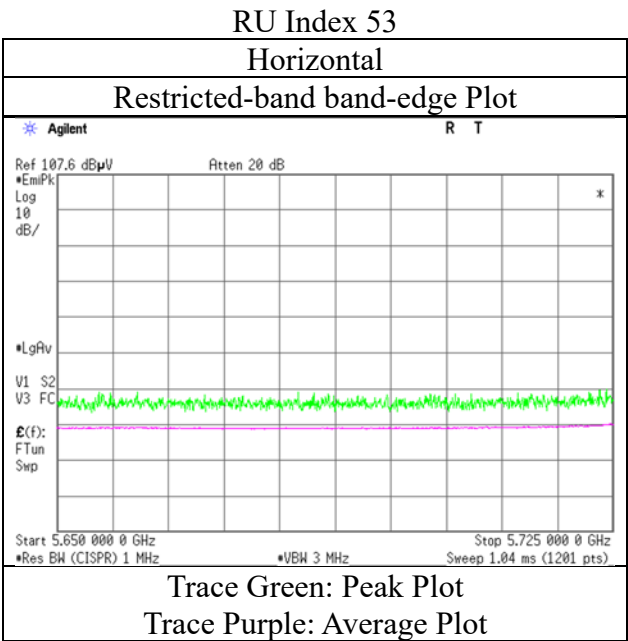
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (242-tone RU)

RU Index 61

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	44.3	-	31.9	5.8	33.9	-	48.1	-	68.2	-	20.1	-	
Hori.	5700.0	45.4	-	32.0	5.8	33.9	-	49.3	-	105.2	-	55.9	-	
Hori.	5720.0	59.6	-	32.0	5.8	33.9	-	63.6	-	110.8	-	47.2	-	
Hori.	5725.0	63.0	-	32.1	5.8	33.9	-	67.0	-	122.2	-	55.2	-	
Vert.	5650.0	43.7	-	31.9	5.8	33.9	-	47.5	-	68.2	-	20.7	-	
Vert.	5700.0	44.8	-	32.0	5.8	33.9	-	48.7	-	105.2	-	56.5	-	
Vert.	5720.0	55.2	-	32.0	5.8	33.9	-	59.1	-	110.8	-	51.7	-	
Vert.	5725.0	59.2	-	32.1	5.8	33.9	-	63.2	-	122.2	-	59.0	-	

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

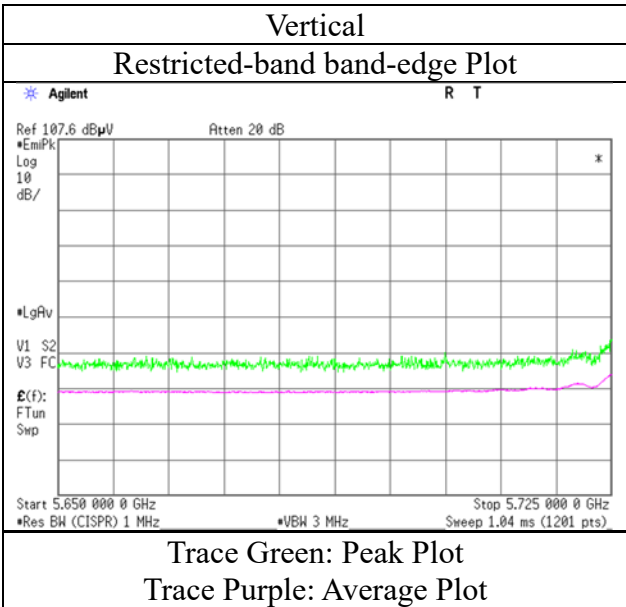
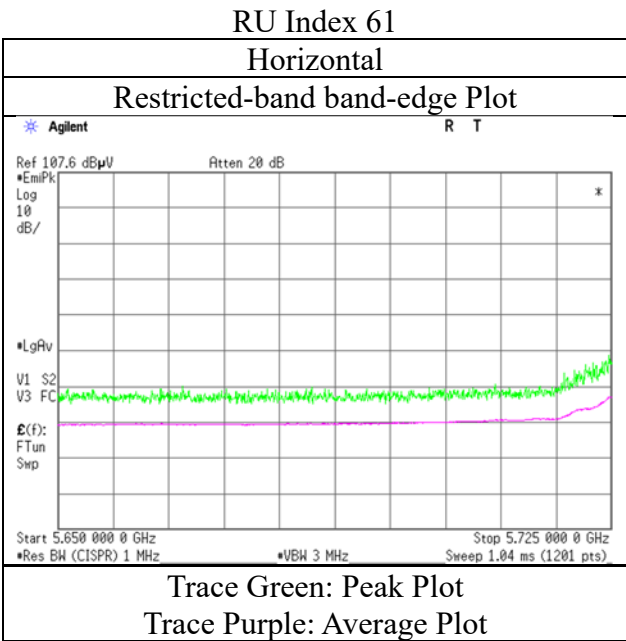
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5745 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (26-tone RU)

RU Index 8

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.	5850.0	43.8	-	32.4	5.9	33.9	-	48.1	-	122.2	-	74.1	-	
Hori.	5855.0	43.7	-	32.4	5.9	33.9	-	48.1	-	110.8	-	62.8	-	
Hori.	5875.0	43.2	-	32.4	5.9	33.9	-	47.5	-	105.2	-	57.7	-	
Hori.	5925.0	43.0	-	32.5	5.9	33.9	-	47.5	-	68.2	-	20.8	-	
Vert.	5850.0	43.7	-	32.4	5.9	33.9	-	48.0	-	122.2	-	74.2	-	
Vert.	5855.0	43.1	-	32.4	5.9	33.9	-	47.4	-	110.8	-	63.4	-	
Vert.	5875.0	43.0	-	32.4	5.9	33.9	-	47.4	-	105.2	-	57.8	-	
Vert.	5925.0	43.0	-	32.5	5.9	33.9	-	47.4	-	68.2	-	20.8	-	

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.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

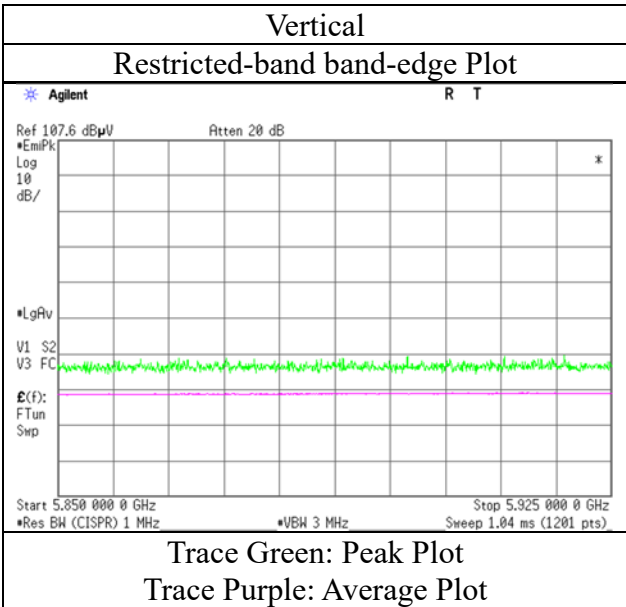
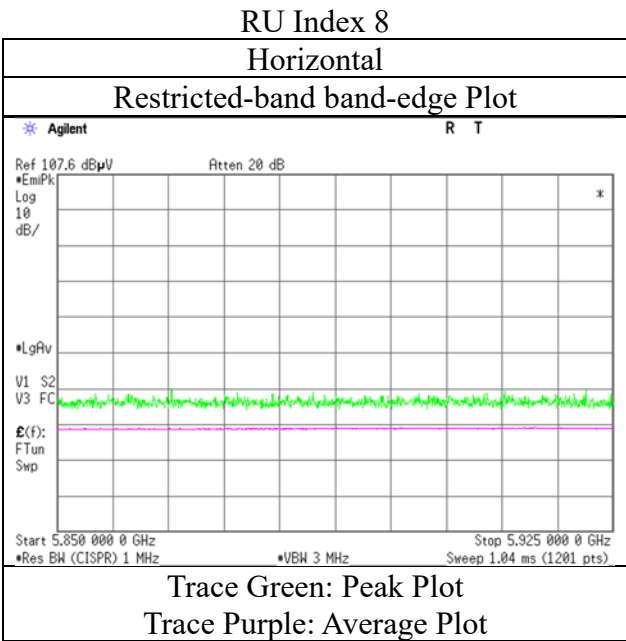
January 18, 2023

22 deg. C / 45 % RH

Kiyoshiro Okazaki

(1 GHz - 10 GHz)

Tx 11ax-20 5825 MHz (26-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (52-tone RU)

RU Index 40

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.	5850.0	43.7	-	32.4	5.9	33.9	-	48.0	-	122.2	-	74.2	-	
Hori.	5855.0	43.7	-	32.4	5.9	33.9	-	48.0	-	110.8	-	62.8	-	
Hori.	5875.0	43.0	-	32.4	5.9	33.9	-	47.3	-	105.2	-	57.9	-	
Hori.	5925.0	42.5	-	32.5	5.9	33.9	-	47.0	-	68.2	-	21.3	-	
Vert.	5850.0	43.3	-	32.4	5.9	33.9	-	47.6	-	122.2	-	74.6	-	
Vert.	5855.0	43.2	-	32.4	5.9	33.9	-	47.5	-	110.8	-	63.3	-	
Vert.	5875.0	43.1	-	32.4	5.9	33.9	-	47.5	-	105.2	-	57.7	-	
Vert.	5925.0	43.1	-	32.5	5.9	33.9	-	47.5	-	68.2	-	20.7	-	

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

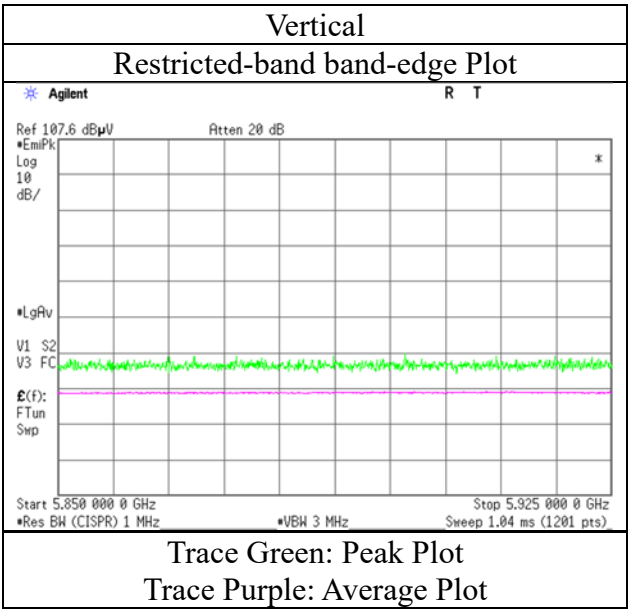
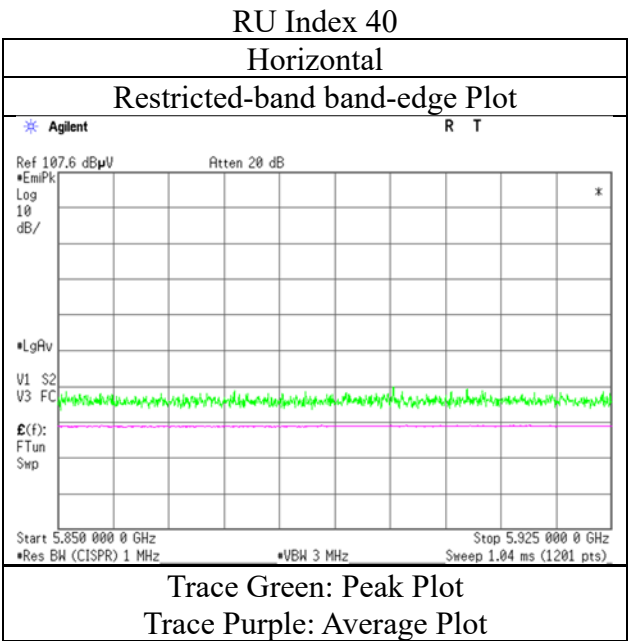
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (106-tone RU)

RU Index 54

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.	5850.0	44.5	-	32.4	5.9	33.9	-	48.8	-	122.2	-	73.4	-	
Hori.	5855.0	44.4	-	32.4	5.9	33.9	-	48.7	-	110.8	-	62.1	-	
Hori.	5875.0	43.3	-	32.4	5.9	33.9	-	47.6	-	105.2	-	57.6	-	
Hori.	5925.0	42.9	-	32.5	5.9	33.9	-	47.3	-	68.2	-	20.9	-	
Vert.	5850.0	45.4	-	32.4	5.9	33.9	-	49.7	-	122.2	-	72.5	-	
Vert.	5855.0	43.9	-	32.4	5.9	33.9	-	48.2	-	110.8	-	62.6	-	
Vert.	5875.0	43.9	-	32.4	5.9	33.9	-	48.2	-	105.2	-	57.0	-	
Vert.	5925.0	43.4	-	32.5	5.9	33.9	-	47.8	-	68.2	-	20.4	-	

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

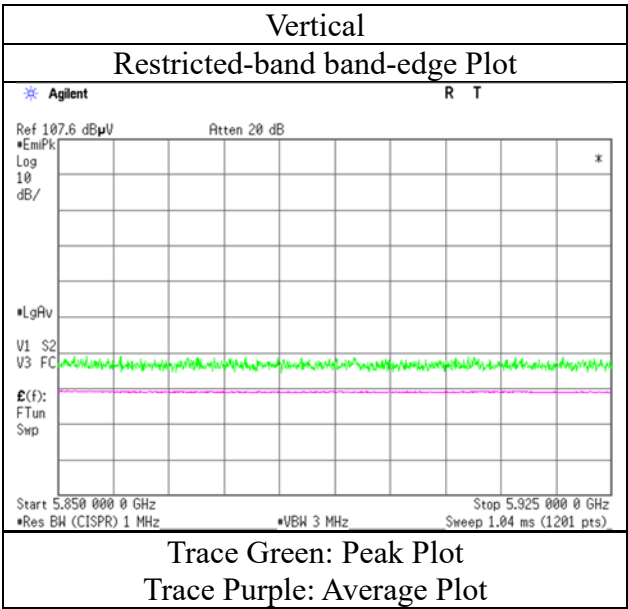
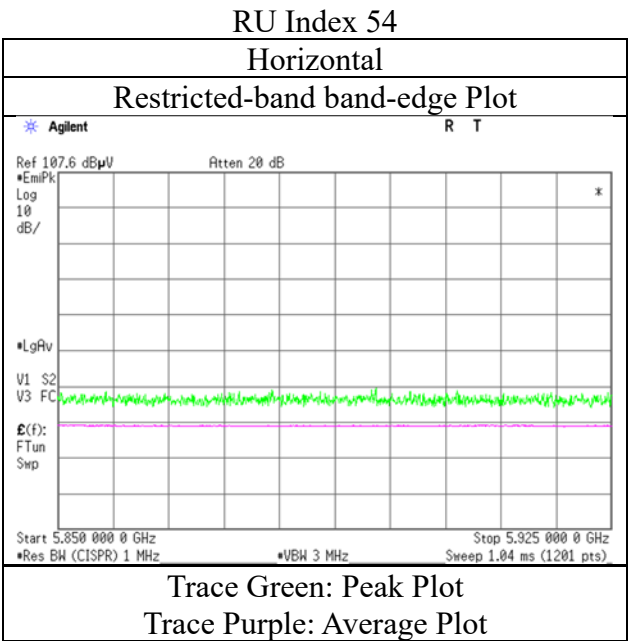
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (242-tone RU)

RU Index 61

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.	5850.0	55.5	-	32.4	5.9	33.9	-	59.8	-	122.2	-	62.4	-	
Hori.	5855.0	46.4	-	32.4	5.9	33.9	-	50.7	-	110.8	-	60.1	-	
Hori.	5875.0	44.2	-	32.4	5.9	33.9	-	48.5	-	105.2	-	56.7	-	
Hori.	5925.0	44.0	-	32.5	5.9	33.9	-	48.4	-	68.2	-	19.8	-	
Vert.	5850.0	49.4	-	32.4	5.9	33.9	-	53.7	-	122.2	-	68.5	-	
Vert.	5855.0	45.1	-	32.4	5.9	33.9	-	49.4	-	110.8	-	61.4	-	
Vert.	5875.0	43.9	-	32.4	5.9	33.9	-	48.3	-	105.2	-	56.9	-	
Vert.	5925.0	43.7	-	32.5	5.9	33.9	-	48.1	-	68.2	-	20.1	-	

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

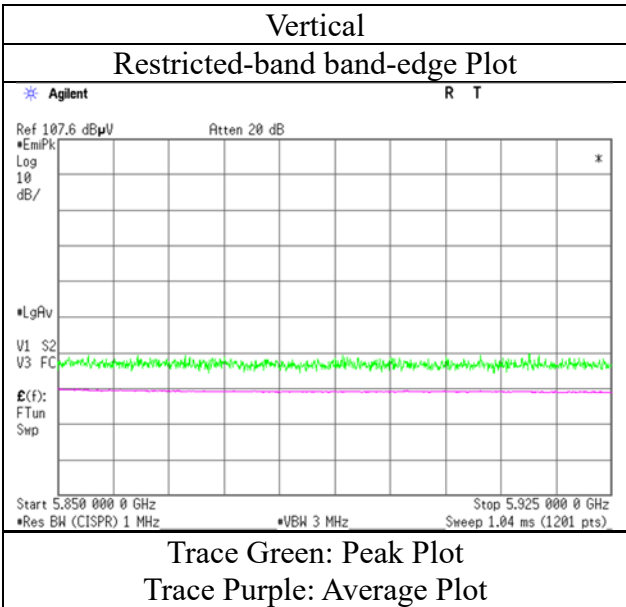
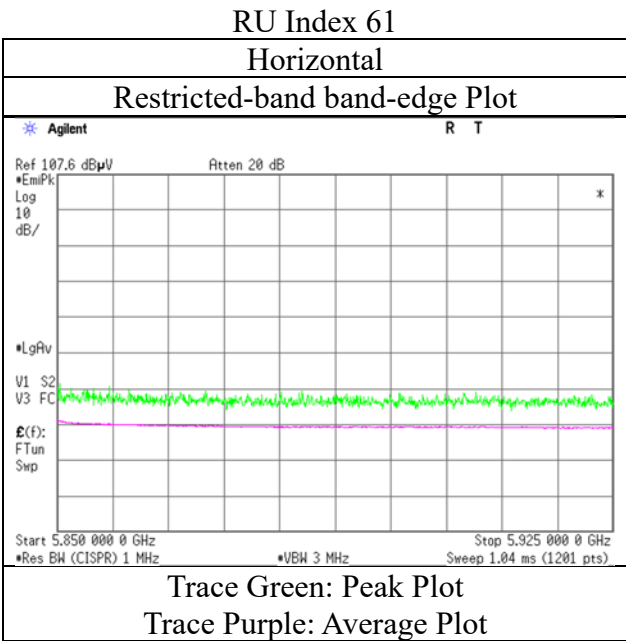
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz 20log(3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 18, 2023
Temperature / Humidity	22 deg. C / 45 % RH
Engineer	Kiyoshiro Okazaki
	(1 GHz - 10 GHz)
Mode	Tx 11ax-20 5825 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (26-tone RU)

RU Index 0

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.	5150.0	42.5	34.1	32.1	5.7	34.1	0.2	46.1	38.0	73.9	53.9	27.8	15.9	*1)
Vert.	5150.0	43.0	33.8	32.1	5.7	34.1	0.2	46.6	37.7	73.9	53.9	27.3	16.2	*1)

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.

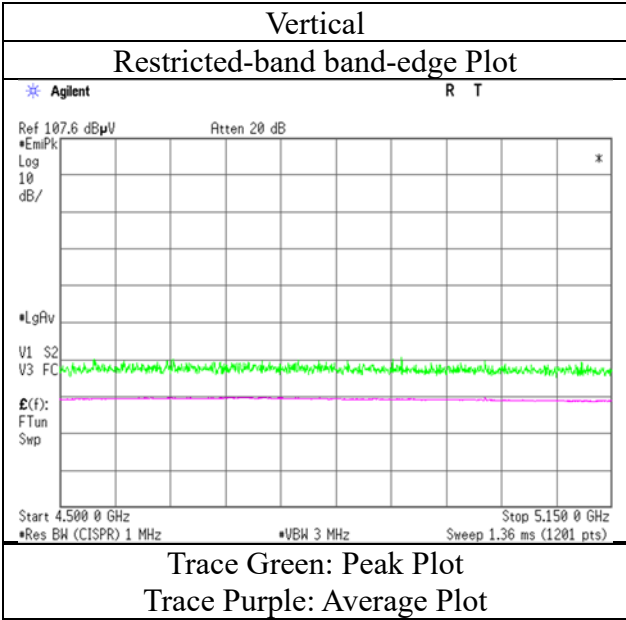
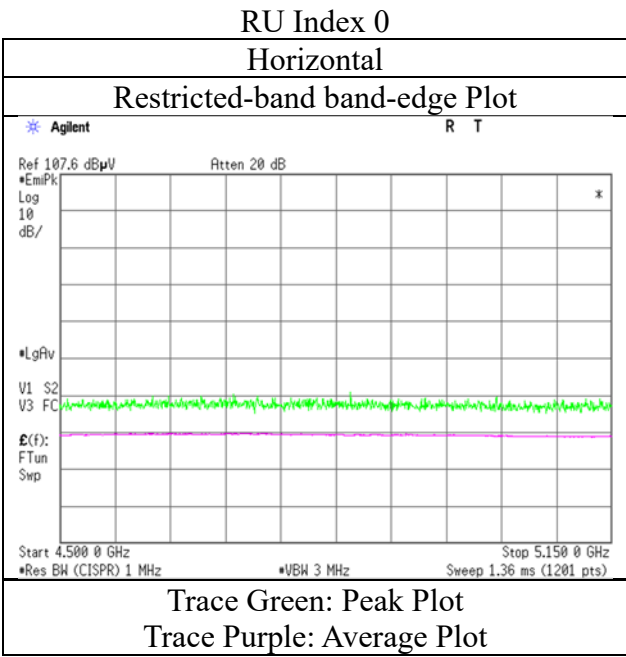
*1) Not Out of Band emission(Leakage Power)

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5190 MHz (26-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (52-tone RU)

RU Index 37

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.	5150.0	43.4	34.1	32.1	5.7	34.1	0.3	47.0	38.0	73.9	53.9	26.9	15.9	*1)
Vert.	5150.0	42.4	33.9	32.1	5.7	34.1	0.3	46.0	37.8	73.9	53.9	27.9	16.2	*1)

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: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata (1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (52-tone RU)

Agilent

Ref 107.6 dB μ V

Atten 20 dB

•EmiPk

Log

10

dB/

•LgAv

V1 S2

V3 FC

RA

£(f):

FTun

Sep

Start 4.500 0 GHz

Stop 5.150 0 GHz

•Res BW (CISPR) 1 MHz

•VBW 3 MHz

Sweep 1.36 ms (1201 pts)

Trace Green: Peak Plot

Trace Purple: Average Plot

Agilent

Ref 107.6 dB μ V

Atten 20 dB

•EmiPk

Log

10

dB/

•LgAv

V1 S2

V3 FC

F(f):

FTun

Sep

Start 4.500 GHz

Stop 5.150 GHz

•Res BW (CISPR) 1 MHz

•VBW 3 MHz

Sweep 1.36 ms (1201 pts)

Trace Green: Peak Plot

Trace Purple: Average Plot

UL Japan, Inc. Ise EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan / +81-596-24-8999

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (106-tone RU)

RU Index 53

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.	5150.0	44.3	34.6	32.1	5.7	34.1	0.3	48.0	38.5	73.9	53.9	25.9	15.5	*1)
Vert.	5150.0	42.3	34.2	32.1	5.7	34.1	0.3	45.9	38.1	73.9	53.9	28.0	15.9	*1)

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).

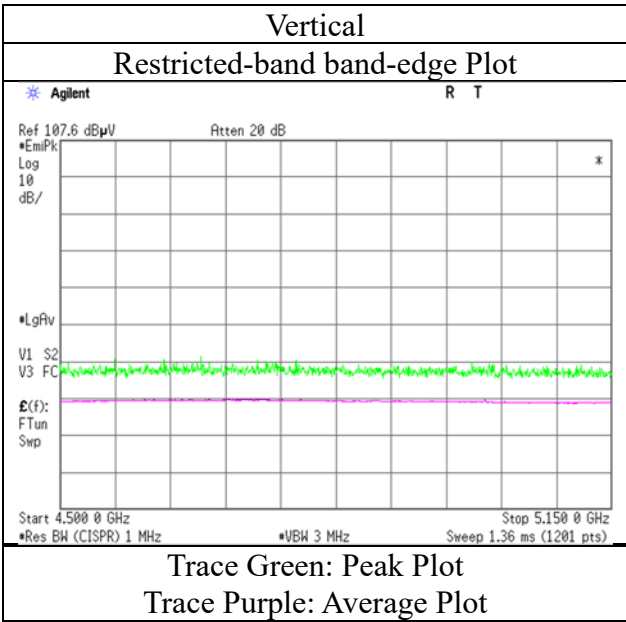
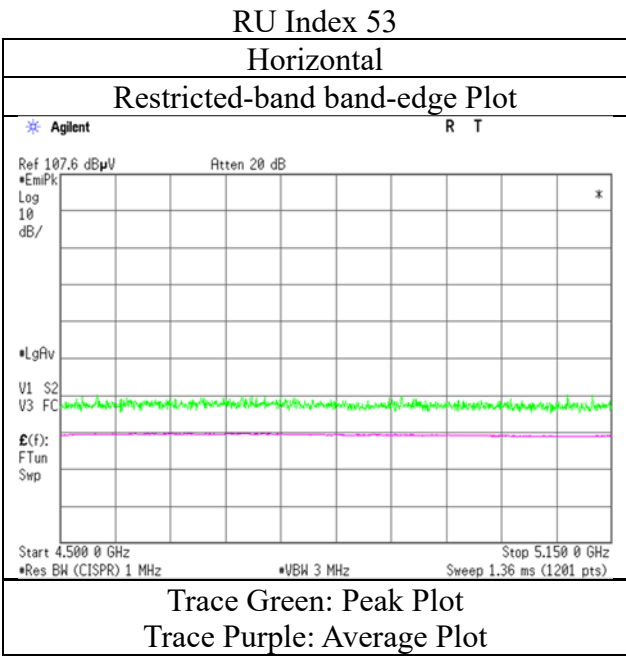
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (242-tone RU)

RU Index 61

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.	5150.0	45.1	36.8	32.1	5.7	34.1	0.3	48.7	40.7	73.9	53.9	25.2	13.2	*1)
Vert.	5150.0	44.4	35.0	32.1	5.7	34.1	0.3	48.0	39.0	73.9	53.9	25.9	15.0	*1)

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: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata (1 GHz - 10 GHz)
Mode	Tx 11ax-40 5190 MHz (242-tone RU)

Agilent

Ref 107.6 dB μ V

Atten 20 dB

•EmiPk

Log

10

dB/

•LgAv

V1 S2

V3 FC

£(f):

FTun

Sep

Start 4.500 0 GHz

Stop 5.150 0 GHz

•Res BW (CISPR) 1 MHz

•VBW 3 MHz

Sweep 1.36 ms (1201 pts)

Trace Green: Peak Plot

Trace Purple: Average Plot

Agilent

Ref 107.6 dBμV

Atten 20 dB

•EmiPk

Log

10

dB/

•LgRv

V1 S2

V3 FC

£(f):

FTun

Swp

Start 4.500 0 GHz

•Res BW (CISPR) 1 MHz

•VBW 3 MHz

Stop 5.150 0 GHz

Sweep 1.36 ms (1201 pts)

Trace Green: Peak Plot

Trace Purple: Average Plot

* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5190 MHz (484-tone RU)

RU Index 65

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.	5150.0	47.1	37.5	32.1	5.7	34.1	0.3	50.8	41.4	73.9	53.9	23.1	12.5	*1)
Vert.	5150.0	45.4	35.9	32.1	5.7	34.1	0.3	49.1	39.8	73.9	53.9	24.8	14.1	*1)

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: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5310 MHz (26-tone RU)

RU Index 17

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.	5350.0	42.8	34.8	31.8	5.7	34.0	0.2	46.4	38.6	73.9	53.9	27.6	15.3	*1)
Vert.	5350.0	42.9	34.4	31.8	5.7	34.0	0.2	46.4	38.2	73.9	53.9	27.5	15.7	*1)

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: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

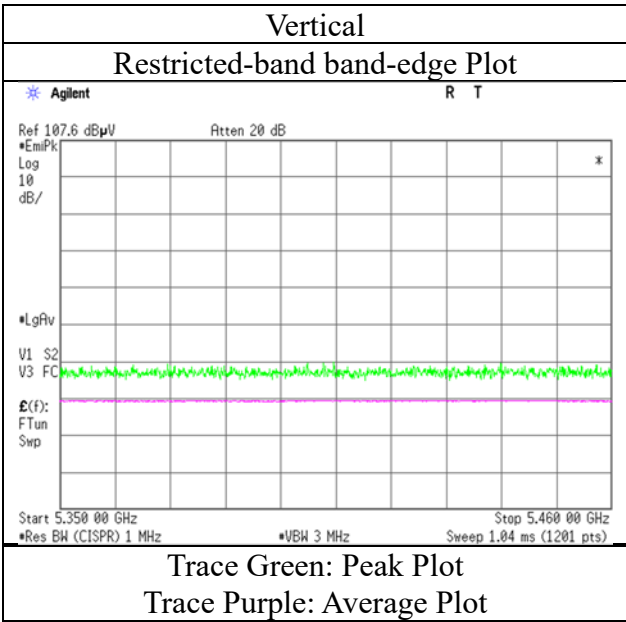
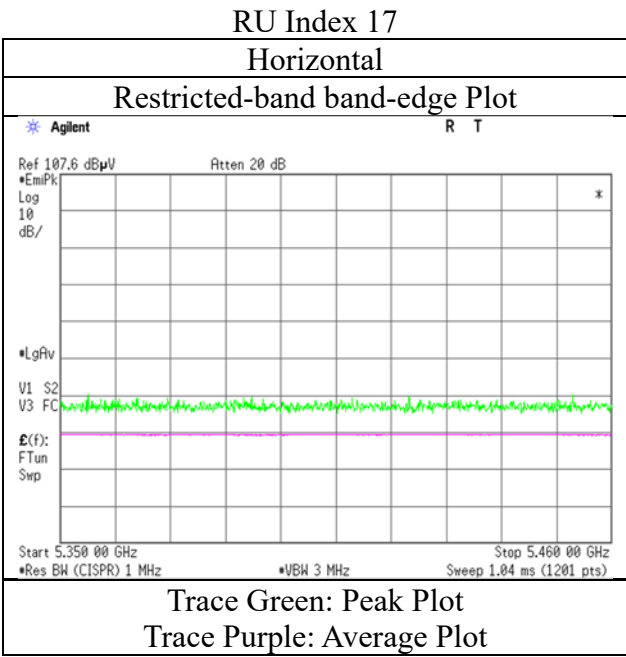
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5310 MHz (26-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5310 MHz (52-tone RU)

RU Index 44

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.	5350.0	44.1	34.9	31.8	5.7	34.0	0.3	47.7	38.7	73.9	53.9	26.2	15.2	*1)
Vert.	5350.0	43.1	34.7	31.8	5.7	34.0	0.3	46.7	38.5	73.9	53.9	27.3	15.4	*1)

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).

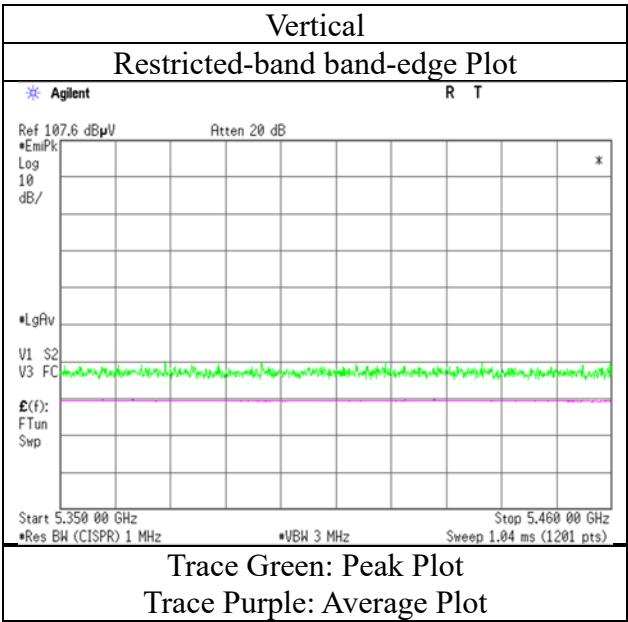
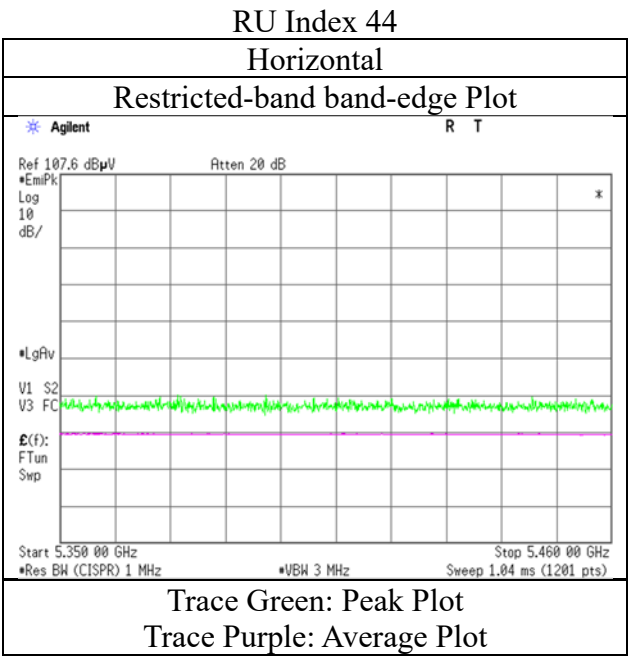
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (52-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5310 MHz (106-tone RU)

RU Index 56

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.	5350.0	44.5	35.3	31.8	5.7	34.0	0.3	48.1	39.1	73.9	53.9	25.8	14.8	*1)
Vert.	5350.0	44.7	35.0	31.8	5.7	34.0	0.3	48.2	38.8	73.9	53.9	25.7	15.1	*1)

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: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

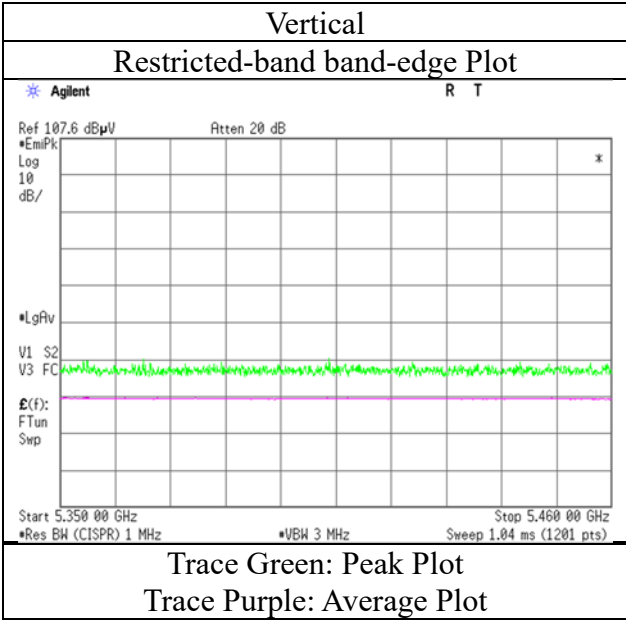
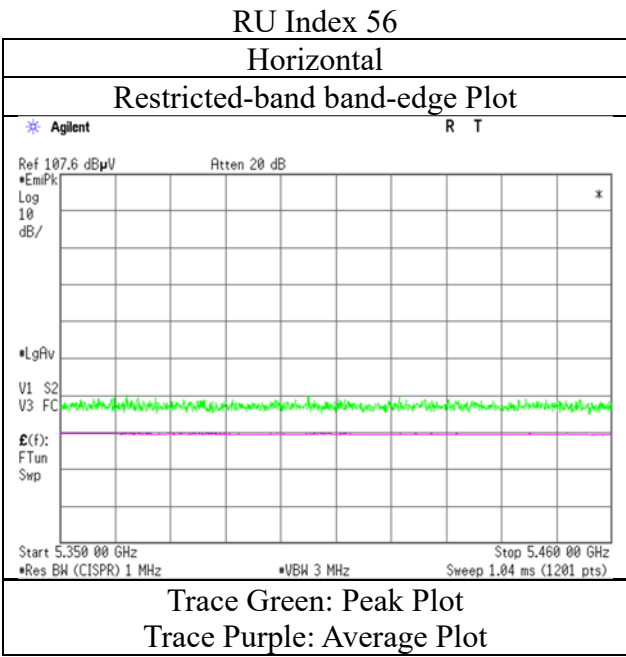
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5310 MHz (106-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5310 MHz (242-tone RU)

RU Index 62

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.	5350.0	47.4	38.3	31.8	5.7	34.0	0.3	50.9	42.1	73.9	53.9	23.0	11.8	*1)
Vert.	5350.0	46.1	36.5	31.8	5.7	34.0	0.3	49.6	40.3	73.9	53.9	24.3	13.6	*1)

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: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

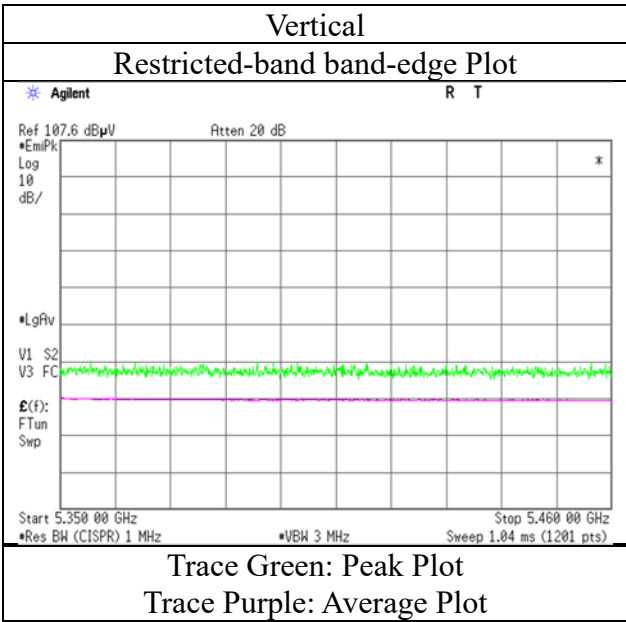
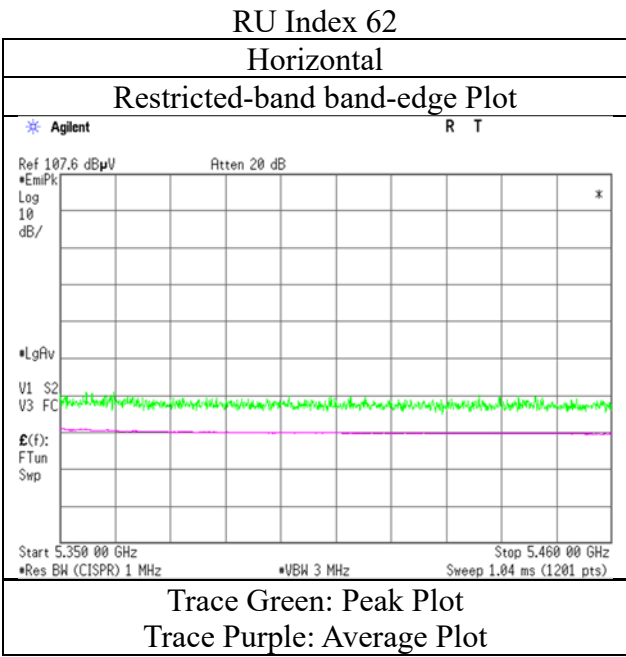
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5310 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (484-tone RU)

RU Index 65

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.	5350.0	54.4	43.5	31.8	5.7	34.0	0.3	58.0	47.3	73.9	53.9	15.9	6.6	*1)
Vert.	5350.0	46.8	37.6	31.8	5.7	34.0	0.3	50.3	41.4	73.9	53.9	23.6	12.5	*1)

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).

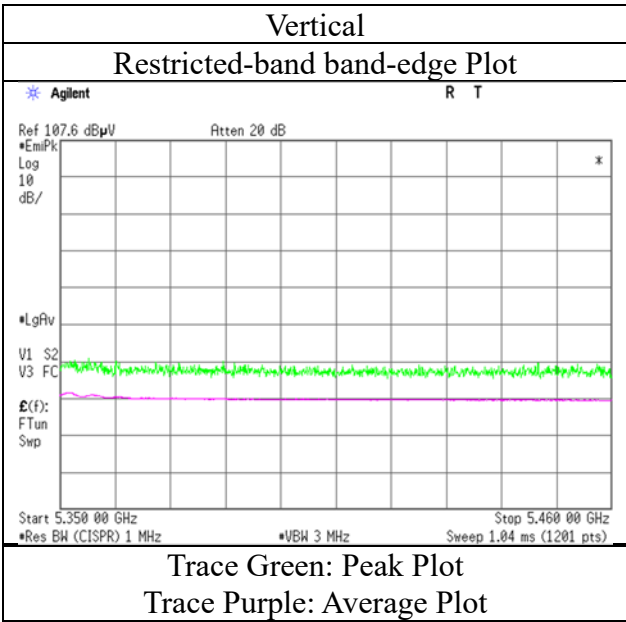
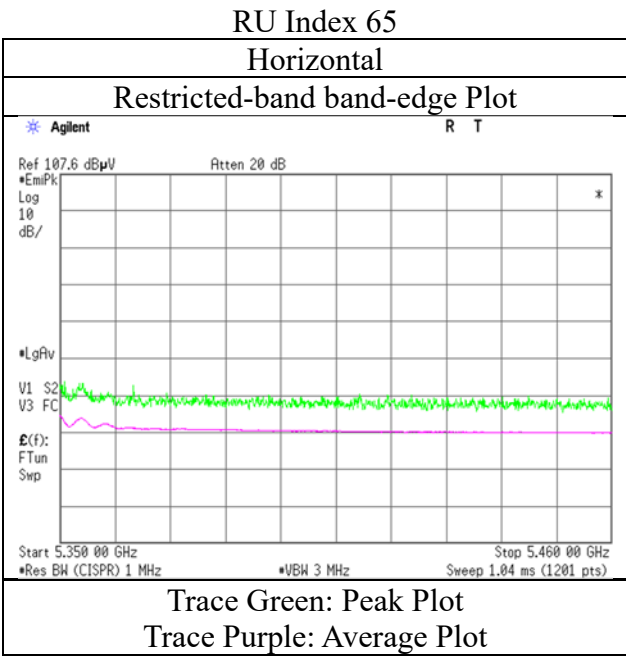
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5310 MHz (484-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (26-tone RU)

RU Index 0

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.	5460.0	42.7	34.3	31.9	5.8	33.9	0.2	46.4	38.4	68.2	53.9	21.8	15.6	*1)
Hori.	5470.0	42.8	-	31.9	5.8	33.9	-	46.6	-	68.2	-	21.7	-	
Vert.	5460.0	43.9	34.2	31.9	5.8	33.9	0.2	47.7	38.2	68.2	53.9	20.6	15.7	*1)
Vert.	5470.0	42.9	-	31.9	5.8	33.9	-	46.7	-	68.2	-	21.6	-	

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: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

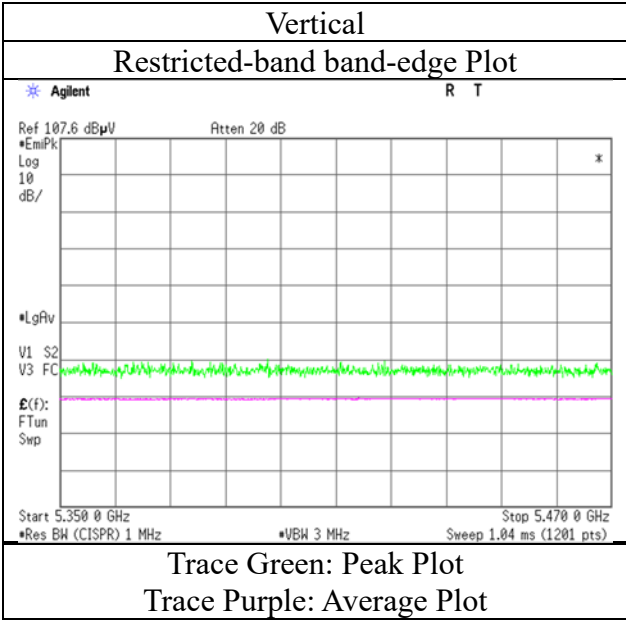
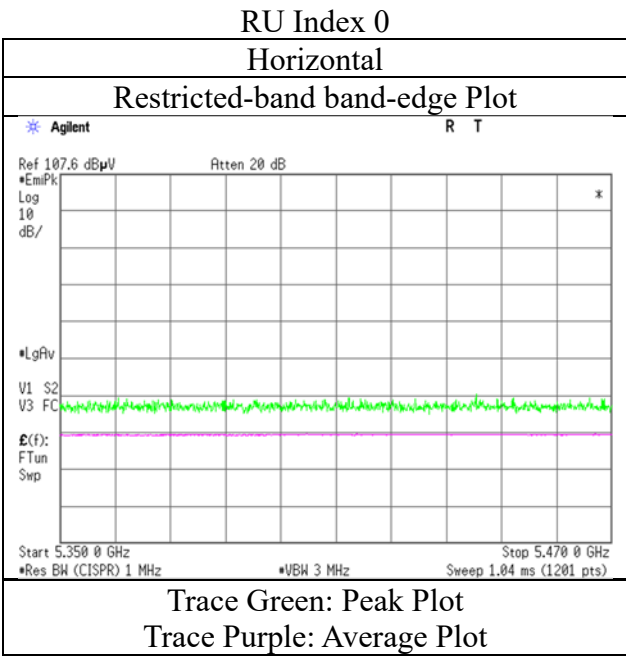
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5510 MHz (26-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (52-tone RU)

RU Index 37

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.	5460.0	42.5	34.5	31.9	5.8	33.9	0.3	46.3	38.5	68.2	53.9	21.9	15.4	*1)
Hori.	5470.0	43.2	-	31.9	5.8	33.9	-	47.0	-	68.2	-	21.2	-	
Vert.	5460.0	43.4	34.5	31.9	5.8	33.9	0.3	47.2	38.5	68.2	53.9	21.0	15.4	*1)
Vert.	5470.0	43.6	-	31.9	5.8	33.9	-	47.4	-	68.2	-	20.9	-	

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).

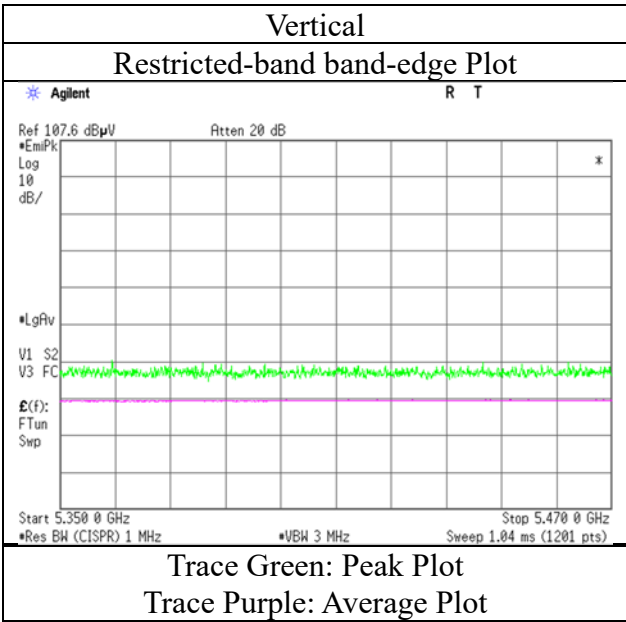
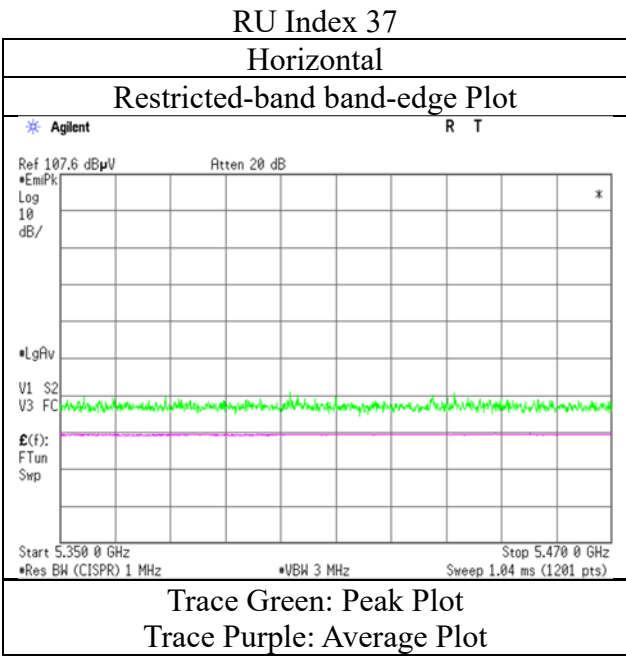
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (106-tone RU)

RU Index 53

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.	5460.0	43.0	34.5	31.9	5.8	33.9	0.3	46.8	38.5	68.2	53.9	21.4	15.4	*1)
Hori.	5470.0	44.7	-	31.9	5.8	33.9	-	48.4	-	68.2	-	19.8	-	
Vert.	5460.0	43.9	34.7	31.9	5.8	33.9	0.3	47.6	38.8	68.2	53.9	20.6	15.1	*1)
Vert.	5470.0	43.1	-	31.9	5.8	33.9	-	46.9	-	68.2	-	21.3	-	

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).

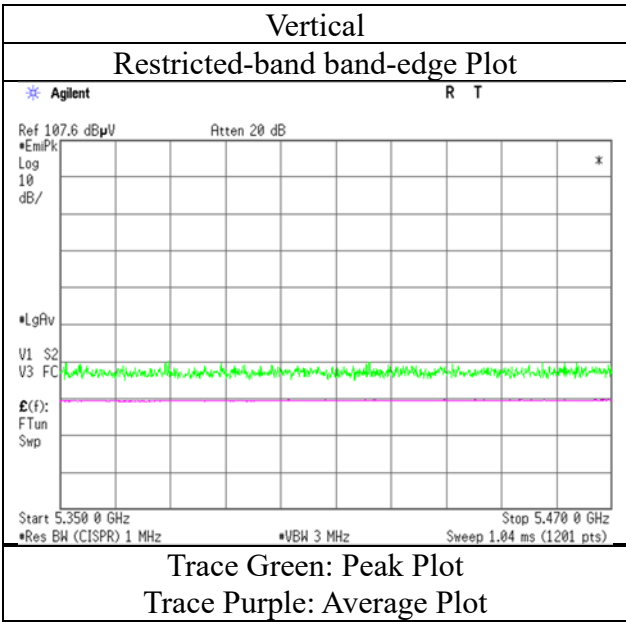
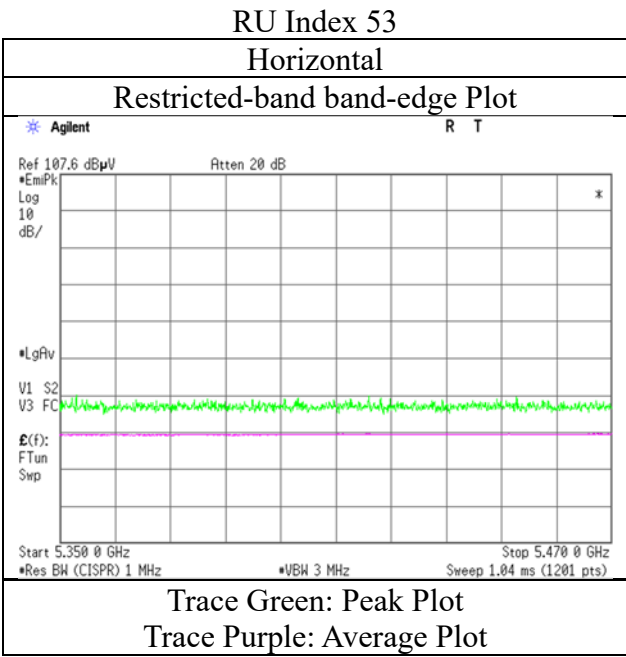
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (242-tone RU)

RU Index 61

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.	5460.0	43.6	35.5	31.9	5.8	33.9	0.3	47.4	39.5	68.2	53.9	20.8	14.4	*1)
Hori.	5470.0	44.3	-	31.9	5.8	33.9	-	48.1	-	68.2	-	20.1	-	
Vert.	5460.0	44.5	35.5	31.9	5.8	33.9	0.3	48.2	39.6	68.2	53.9	20.0	14.4	*1)
Vert.	5470.0	45.1	-	31.9	5.8	33.9	-	48.9	-	68.2	-	19.4	-	

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).

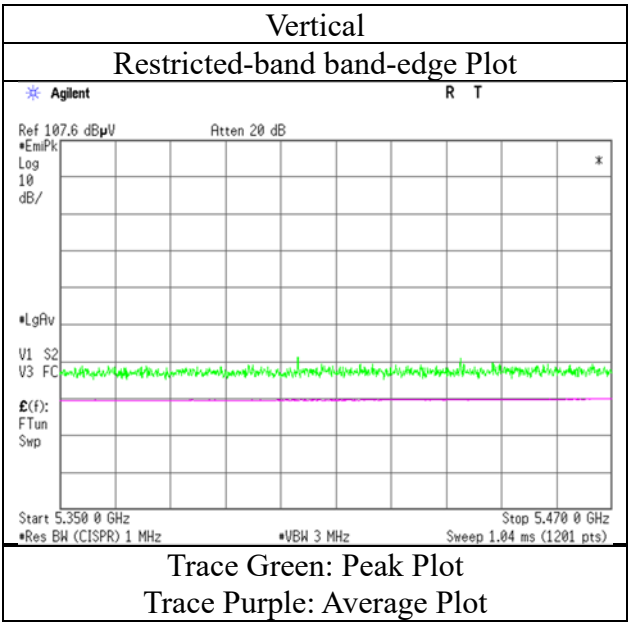
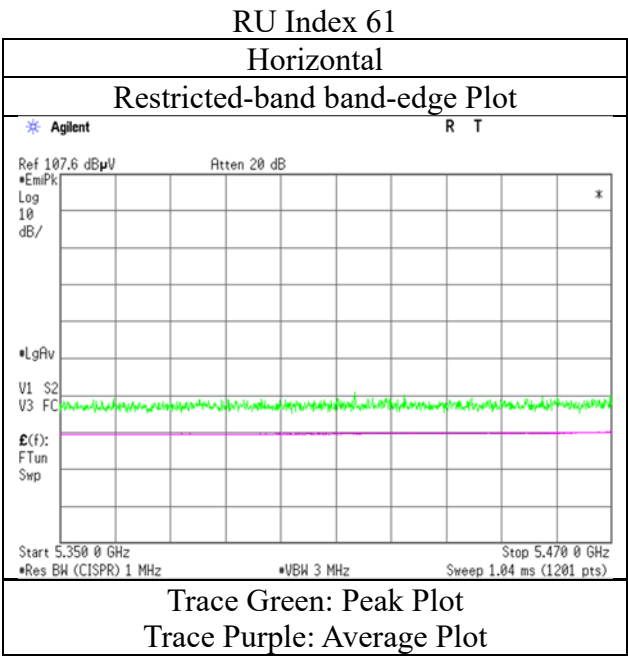
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (484-tone RU)

RU Index 65

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.	5460.0	50.7	38.3	31.9	5.8	33.9	0.3	54.5	42.3	68.2	53.9	13.7	11.6	*1)
Hori.	5470.0	55.8	-	31.9	5.8	33.9	-	59.5	-	68.2	-	8.7	-	
Vert.	5460.0	45.5	36.6	31.9	5.8	33.9	0.3	49.3	40.6	68.2	53.9	18.9	13.3	*1)
Vert.	5470.0	49.0	-	31.9	5.8	33.9	-	52.7	-	68.2	-	15.5	-	

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).

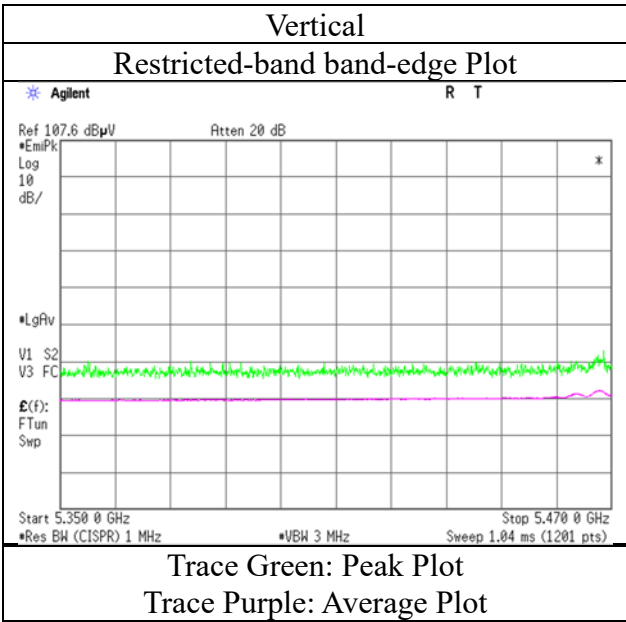
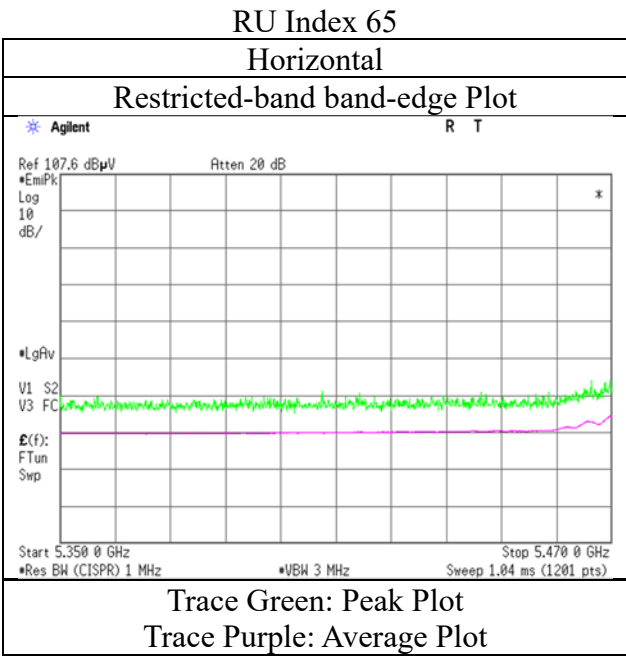
*QP detector was used up to 1GHz.

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

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5510 MHz (484-tone RU)



* 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

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab.
No.2
January 19, 2023
20 deg. C / 51 % RH
Hiroki Numata
(1 GHz - 10 GHz)
Tx 11ax-40 5670 MHz (26-tone RU)

RU Index 17

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.	5725.0	43.3	-	32.1	5.8	33.9	-	47.3	-	68.2	-	20.9	-	
Vert.	5725.0	43.3	-	32.1	5.8	33.9	-	47.3	-	68.2	-	20.9	-	

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

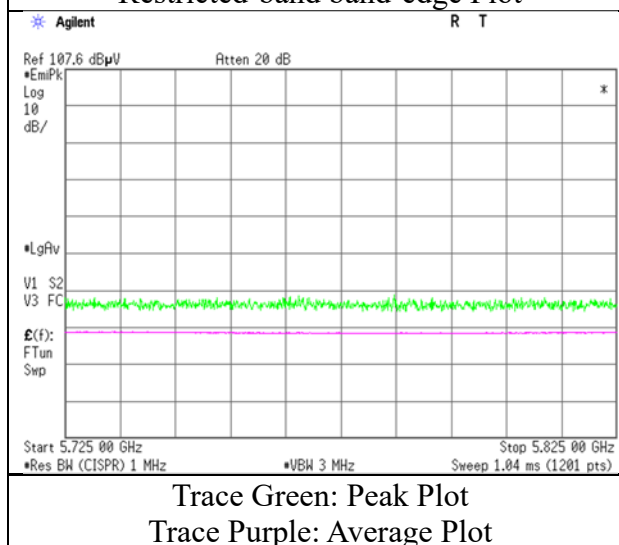
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

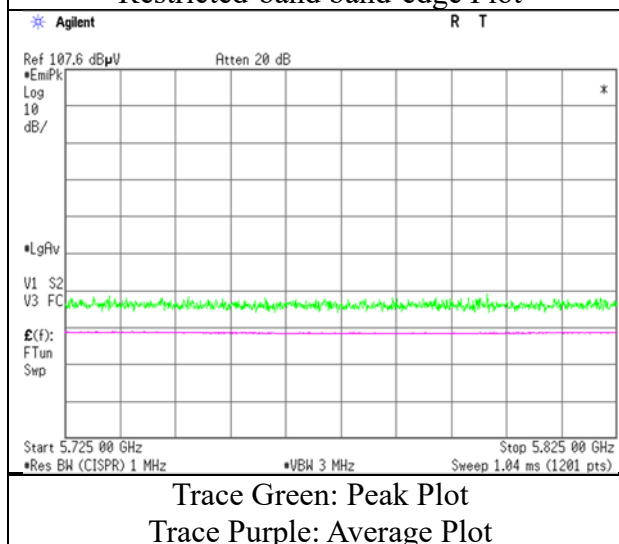
Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata (1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (26-tone RU)

Restricted-band band-edge Plot



Restricted-band band-edge Plot



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (52-tone RU)

RU Index 44

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.	5725.0	42.5	-	32.1	5.8	33.9	-	46.5	-	68.2	-	21.8	-	
Vert.	5725.0	44.1	-	32.1	5.8	33.9	-	48.0	-	68.2	-	20.2	-	

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.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

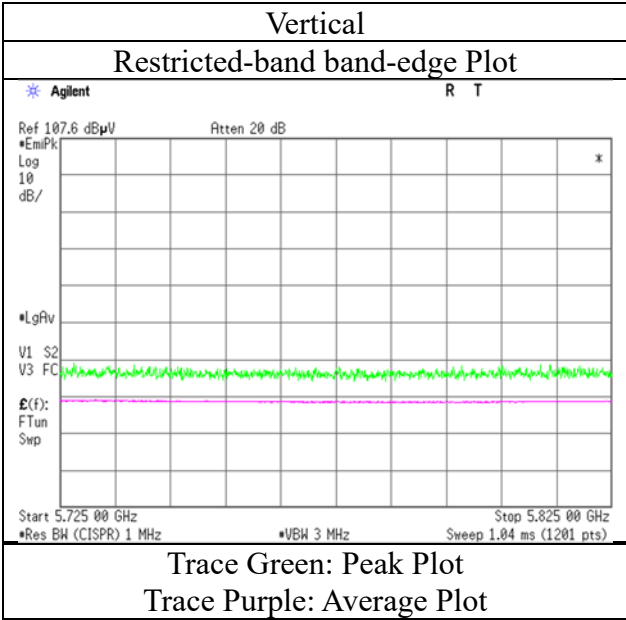
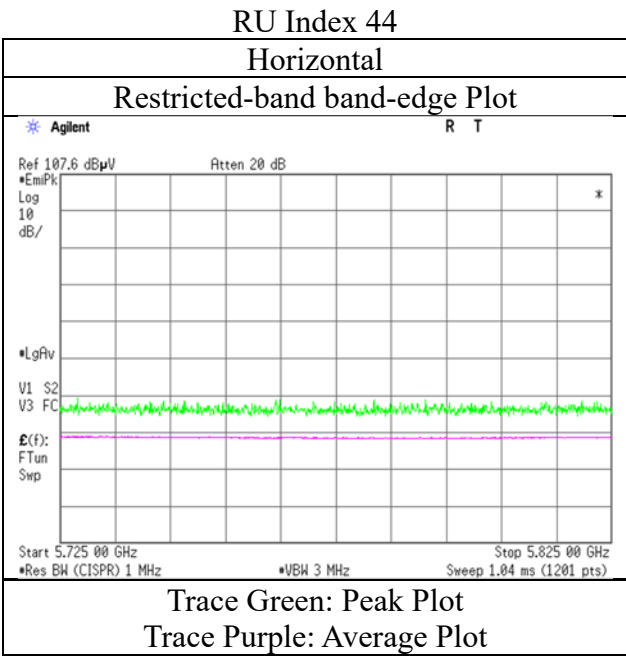
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5670 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (106-tone RU)

RU Index 56

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.	5725.0	43.2	-	32.1	5.8	33.9	-	47.2	-	68.2	-	21.1	-	
Vert.	5725.0	43.6	-	32.1	5.8	33.9	-	47.6	-	68.2	-	20.6	-	

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

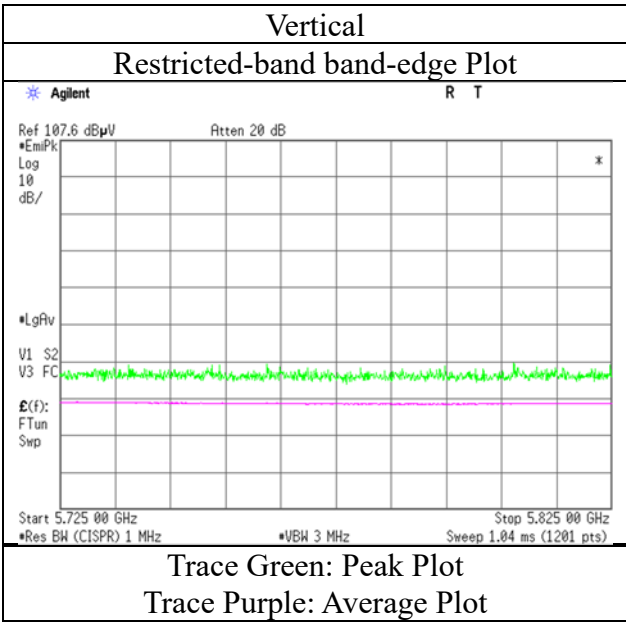
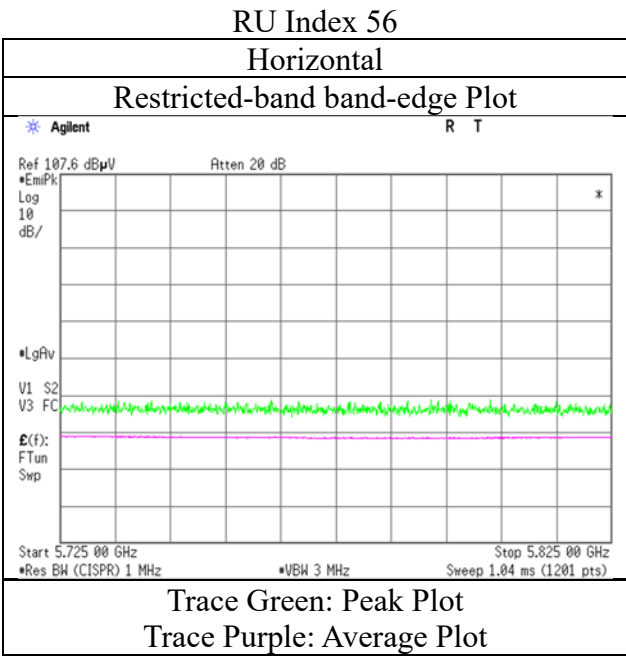
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (242-tone RU)

RU Index 62

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.	5725.0	45.5	-	32.1	5.8	33.9	-	49.5	-	68.2	-	18.7	-	
Vert.	5725.0	44.0	-	32.1	5.8	33.9	-	48.0	-	68.2	-	20.2	-	

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

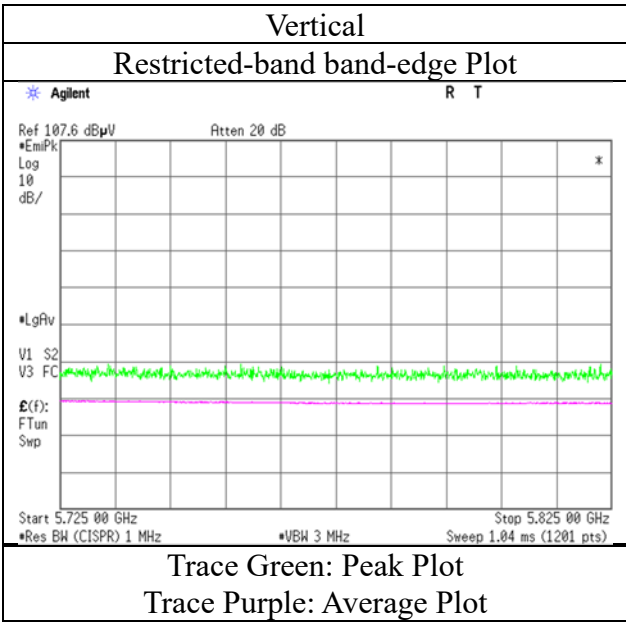
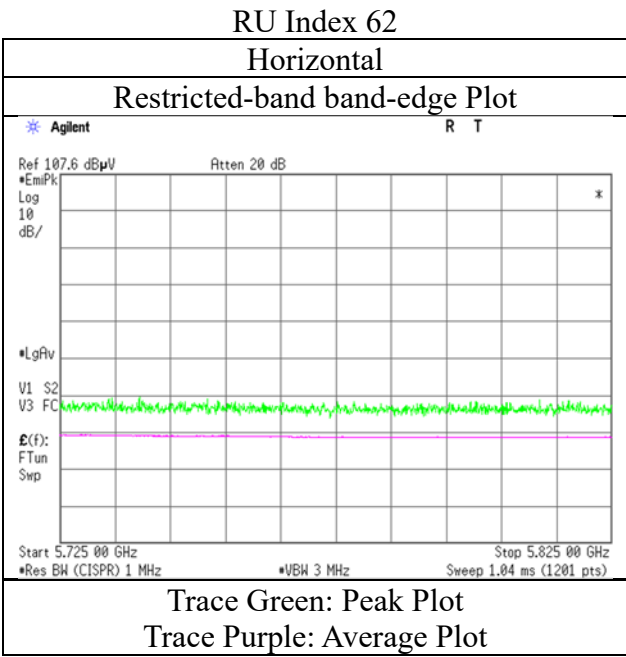
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (484-tone RU)

RU Index 65

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.	5725.0	46.6	-	32.1	5.8	33.9	-	50.6	-	68.2	-	17.6	-	
Vert.	5725.0	44.9	-	32.1	5.8	33.9	-	48.9	-	68.2	-	19.3	-	

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

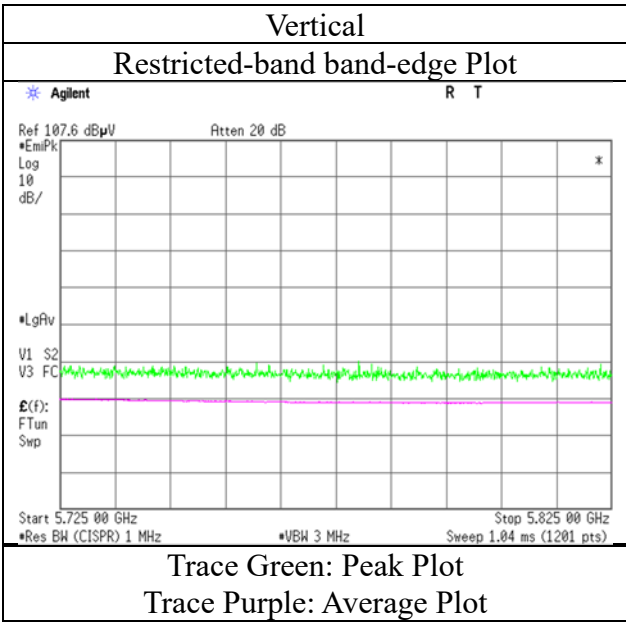
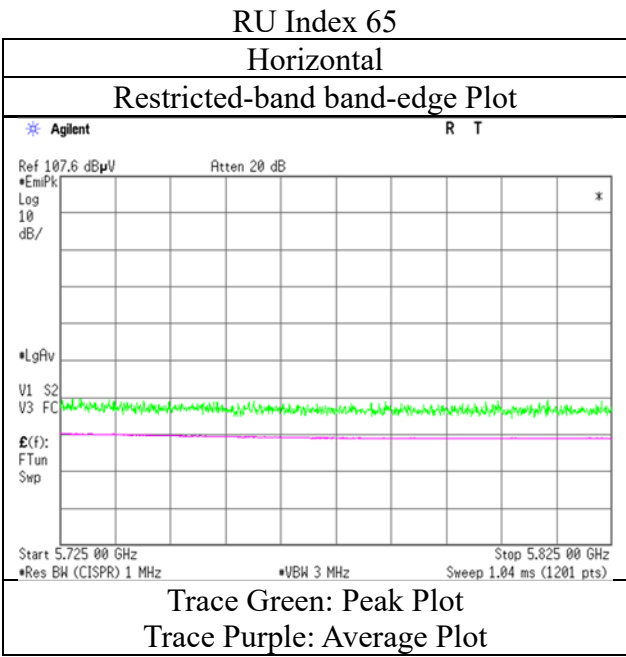
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5670 MHz (484-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (26-tone RU)

RU Index 0

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	42.8	-	31.9	5.8	33.9	-	46.6	-	68.2	-	21.6	-	
Hori.	5700.0	43.2	-	32.0	5.8	33.9	-	47.1	-	105.2	-	58.1	-	
Hori.	5720.0	43.4	-	32.0	5.8	33.9	-	47.4	-	110.8	-	63.5	-	
Hori.	5725.0	45.0	-	32.1	5.8	33.9	-	49.0	-	122.2	-	73.2	-	
Vert.	5650.0	42.9	-	31.9	5.8	33.9	-	46.7	-	68.2	-	21.5	-	
Vert.	5700.0	42.3	-	32.0	5.8	33.9	-	46.2	-	105.2	-	59.0	-	
Vert.	5720.0	43.0	-	32.0	5.8	33.9	-	47.0	-	110.8	-	63.8	-	
Vert.	5725.0	44.9	-	32.1	5.8	33.9	-	48.9	-	122.2	-	73.3	-	

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.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

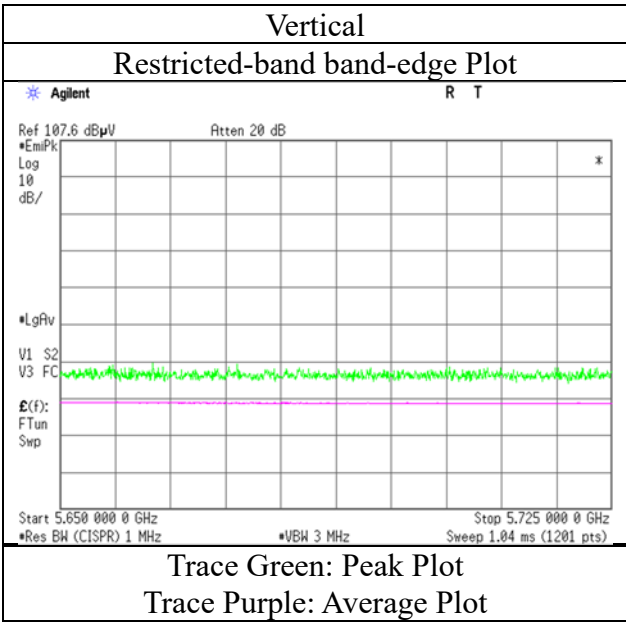
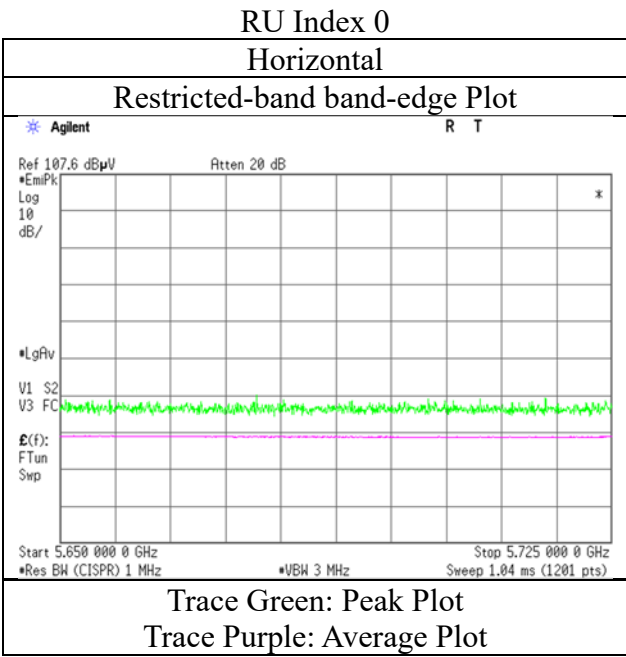
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5755 MHz (26-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (52-tone RU)

RU Index 37

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	42.1	-	31.9	5.8	33.9	-	45.9	-	68.2	-	22.3	-	
Hori.	5700.0	42.2	-	32.0	5.8	33.9	-	46.1	-	105.2	-	59.1	-	
Hori.	5720.0	43.0	-	32.0	5.8	33.9	-	47.0	-	110.8	-	63.9	-	
Hori.	5725.0	47.3	-	32.1	5.8	33.9	-	51.3	-	122.2	-	71.0	-	
Vert.	5650.0	42.8	-	31.9	5.8	33.9	-	46.6	-	68.2	-	21.6	-	
Vert.	5700.0	42.1	-	32.0	5.8	33.9	-	46.0	-	105.2	-	59.2	-	
Vert.	5720.0	42.5	-	32.0	5.8	33.9	-	46.4	-	110.8	-	64.4	-	
Vert.	5725.0	46.0	-	32.1	5.8	33.9	-	50.0	-	122.2	-	72.2	-	

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

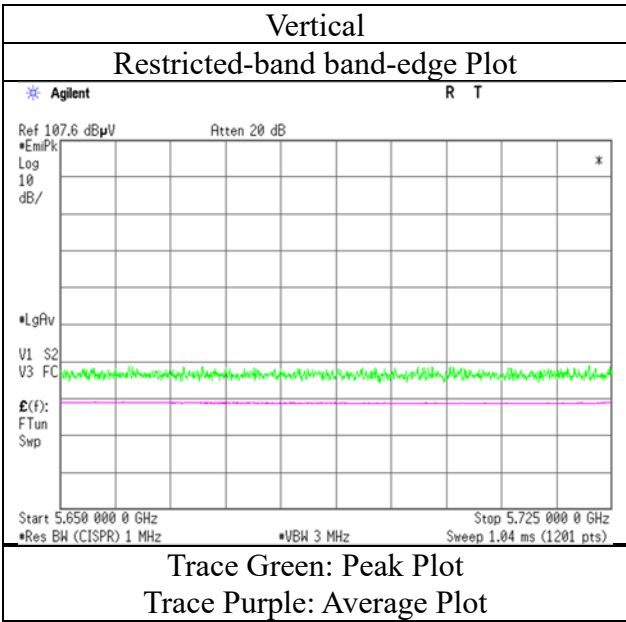
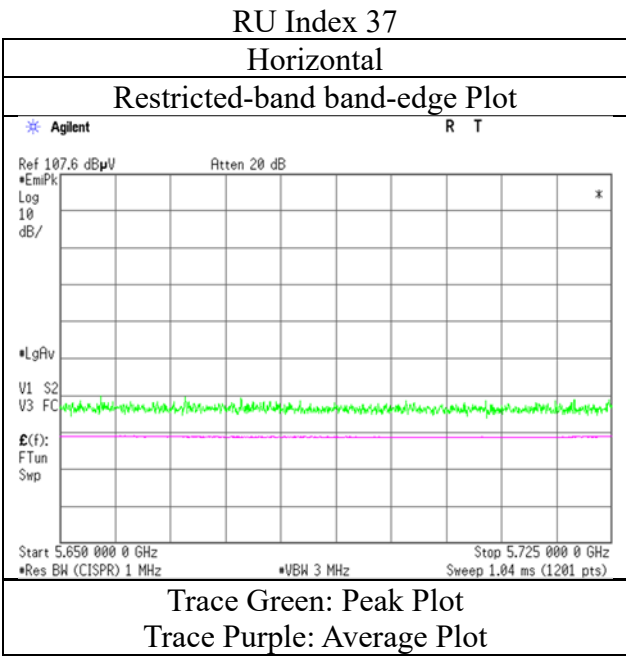
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (52-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (106-tone RU)

RU Index 53

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	44.0	-	31.9	5.8	33.9	-	47.8	-	68.2	-	20.4	-	
Hori.	5700.0	43.0	-	32.0	5.8	33.9	-	46.9	-	105.2	-	58.3	-	
Hori.	5720.0	44.2	-	32.0	5.8	33.9	-	48.2	-	110.8	-	62.6	-	
Hori.	5725.0	48.9	-	32.1	5.8	33.9	-	52.9	-	122.2	-	69.4	-	
Vert.	5650.0	44.3	-	31.9	5.8	33.9	-	48.1	-	68.2	-	20.1	-	
Vert.	5700.0	43.6	-	32.0	5.8	33.9	-	47.5	-	105.2	-	57.7	-	
Vert.	5720.0	44.2	-	32.0	5.8	33.9	-	48.2	-	110.8	-	62.6	-	
Vert.	5725.0	45.9	-	32.1	5.8	33.9	-	49.9	-	122.2	-	72.3	-	

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.

Distance factor: 1 GHz - 10 GHz 20log (3.7 m / 3.0 m) = 1.83 dB

Radiated Spurious Emission

Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

No.2

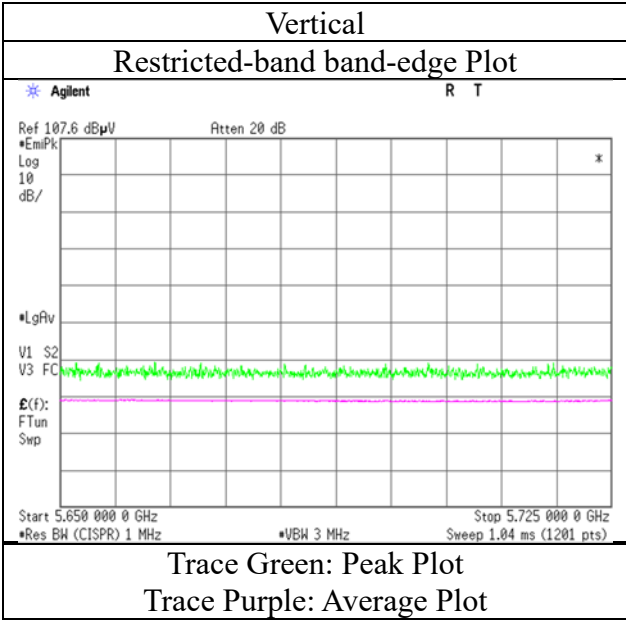
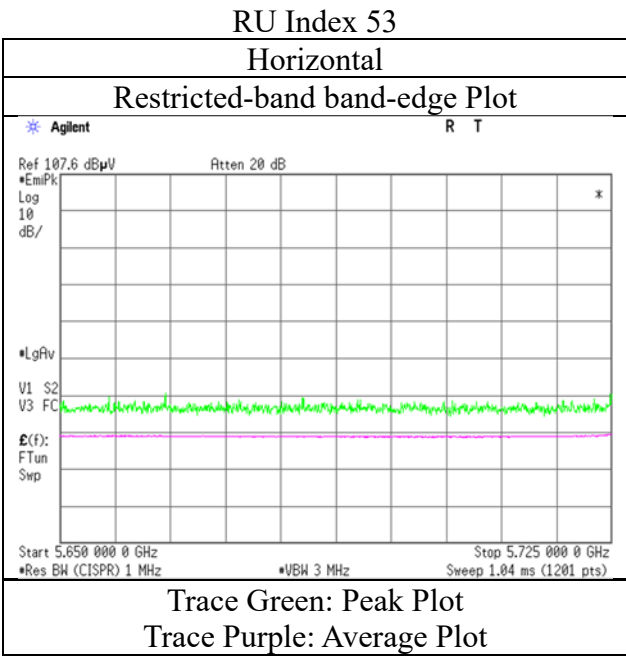
January 19, 2023

20 deg. C / 51 % RH

Hiroki Numata

(1 GHz - 10 GHz)

Tx 11ax-40 5755 MHz (106-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (242-tone RU)

RU Index 61

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	44.1	-	31.9	5.8	33.9	-	47.9	-	68.2	-	20.3	-	
Hori.	5700.0	43.2	-	32.0	5.8	33.9	-	47.1	-	105.2	-	58.1	-	
Hori.	5720.0	50.7	-	32.0	5.8	33.9	-	54.7	-	110.8	-	56.1	-	
Hori.	5725.0	59.3	-	32.1	5.8	33.9	-	63.3	-	122.2	-	58.9	-	
Vert.	5650.0	43.3	-	31.9	5.8	33.9	-	47.1	-	68.2	-	21.1	-	
Vert.	5700.0	43.1	-	32.0	5.8	33.9	-	47.0	-	105.2	-	58.2	-	
Vert.	5720.0	45.9	-	32.0	5.8	33.9	-	49.8	-	110.8	-	61.0	-	
Vert.	5725.0	54.4	-	32.1	5.8	33.9	-	58.4	-	122.2	-	63.9	-	

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

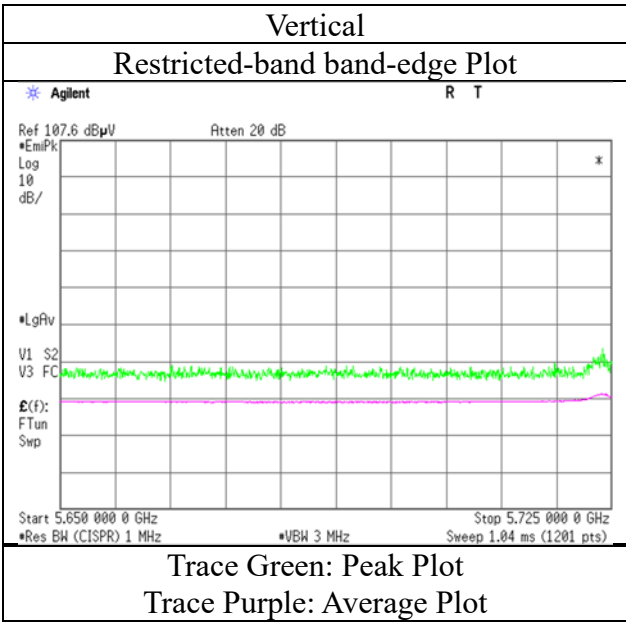
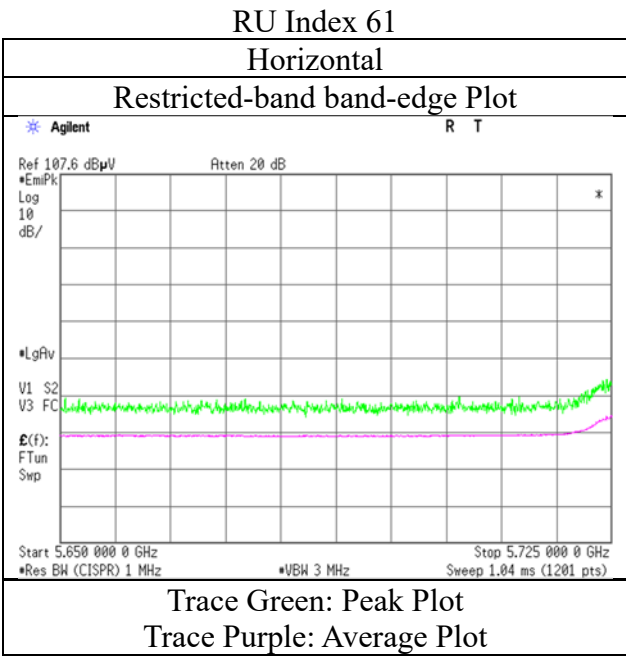
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (242-tone RU)



* 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

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	January 19, 2023
Temperature / Humidity	20 deg. C / 51 % RH
Engineer	Hiroki Numata
	(1 GHz - 10 GHz)
Mode	Tx 11ax-40 5755 MHz (484-tone RU)

RU Index 65

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	44.1	-	31.9	5.8	33.9	-	47.9	-	68.2	-	20.3	-	
Hori.	5700.0	47.5	-	32.0	5.8	33.9	-	51.4	-	105.2	-	53.8	-	
Hori.	5720.0	65.6	-	32.0	5.8	33.9	-	69.5	-	110.8	-	41.3	-	
Hori.	5725.0	66.1	-	32.1	5.8	33.9	-	70.1	-	122.2	-	52.1	-	
Vert.	5650.0	43.6	-	31.9	5.8	33.9	-	47.4	-	68.2	-	20.8	-	
Vert.	5700.0	44.2	-	32.0	5.8	33.9	-	48.1	-	105.2	-	57.1	-	
Vert.	5720.0	57.5	-	32.0	5.8	33.9	-	61.5	-	110.8	-	49.3	-	
Vert.	5725.0	62.6	-	32.1	5.8	33.9	-	66.5	-	122.2	-	55.7	-	

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.

Distance factor: 1 GHz - 10 GHz $20\log(3.7\text{ m} / 3.0\text{ m}) = 1.83\text{ dB}$