

RADIO TEST REPORT

Test Report No. 14913531H-D-R2

Customer	Panasonic Automotive Systems Co., Ltd.
Description of EUT	Car Navigation
Model Number of EUT	AT2403
FCC ID	ACJ932AT2403
Test Regulation	FCC Part 15 Subpart E
Test Result	Complied
Issue Date	May 13, 2025
Remarks	- WLAN (5 GHz band) part - Radiated Spurious Emission and Band Edge Compliance only

Representative Test EngineerTakumi Nishida
Engineer**Approved By**Takumi Shimada
Engineer

CERTIFICATE 5107.02

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

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 24.0

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- The information provided by the customer for this report is identified in SECTION 1.
- The laboratory is not responsible for information provided by the customer which can impact the validity of the results.
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REVISION HISTORY

Original Test Report No. 14913531H-D

This report is a revised version of 14913531H-D-R1. 14913531H-D-R1 is replaced with this report.

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	14913531H-D	December 20, 2024	-
1	14913531H-D-R1	May 8, 2025	<u>SECTION 2: Equipment Under Test (EUT)</u> - Added Test Date: April 25 to 27, 2025 <u>4.1 Operating Mode(s)</u> - Corrected Remarks of Table (Page 10): 11ax-20 G.I. 3200 ns -> 1600 ns 11ax-40 G.I. 3200 ns -> 1600 ns 11ac-80 G.I. 3200 ns -> 800 ns 11ax-80 G.I. 3200 ns -> 1600 ns - Added mode and note *2) to Table of Simultaneous transmission (Page 11) <u>4.2 Configuration and Peripherals</u> - Exchanged cable information of Cable No.9 and No.10 in Table of List of Cables Used (Page 13) <u>SECTION 5: Radiated Spurious Emission</u> - Added calculation of Distance Factor for simultaneous transmission mode to Figure 1 <u>APPENDIX 1: Test Data</u> - Corrected Distance Factor of page 100, 106, 135: 1.47 dB -> 2.06 dB - Added data for Simultaneous transmission mode (Page 169, 170): Tx 11ax-40 [OFDM] 5190 MHz + 11ax-20 [OFDM] 2462 MHz <u>APPENDIX 2: Test Instruments</u> - Added Test Equipment used from April 25 to 27, 2025
2	14913531H-D-R2	May 13, 2025	<u>3.2 Procedures and Results</u> - Corrected Worst Margin: 7.3 dB -> 9.1 dB <u>APPENDIX 1: Test Data</u> - Corrected data: Tx 11ax-40 [OFDM] 5190 MHz (Page 66) Tx 11ax-40 [484-tone RU/Index 65] 5755 MHz (Page 102)

Reference: Abbreviations (Including words undescribed in this report)

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

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SECTION 1: Customer Information

Company Name	Panasonic Automotive Systems Co., Ltd. *1)
Address	4261, Ikonobe-cho, Tsuzuki-ku, Yokohama-shi, Kanagawa-ken 224-8520, Japan
Telephone Number	+81-50-1802-5117
Contact Person	Daisuke Takahata

*1) The Grantee name in the FCC application is "Panasonic Corporation of North America".

The information provided by the customer is as follows;

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

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Car Navigation
Model Number	AT2403
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	October 25, 2024
Test Date	October 28 to November 17, 2024 April 25 to 27, 2025

2.2 Product Description

General Specification

Rating	DC 13.2 V
Operating temperature	-30 deg. C to 65 deg. C

Radio Specification

Bluetooth (BR / EDR / BT LE)

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

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) 26/52/106/242-tone RU
Antenna Gain	4 dBi

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 MHz Band	5180 MHz to 5240 MHz 5745 MHz to 5825 MHz
	40 MHz Band	5190 MHz to 5230 MHz 5755 MHz to 5795 MHz
	80 MHz Band	5210 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		
Antenna Gain	RF0: 5 dBi RF1: 5 dBi	

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	FCC: 15.407 (b), 15.205 and 15.209	9.1 dB 5000.0 MHz, AV, Vertical	Complied	Radiated (> 30 MHz) *1)
	ISED: -	ISED: RSS-247 6.2.1.2 6.2.2.2 6.2.3.2 6.2.4.3			

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).

FCC Part 15.31 (e)

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

FCC Part 15.203 Antenna requirement

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

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

3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

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

Telephone: +81-596-24-8999

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

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

Test site	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber	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)	MCS 5, (G.I. 1600 ns), PN9
IEEE 802.11ax MIMO 40 MHz BW (11ax-40)	MCS 10 (G.I. 1600 ns), PN9
IEEE 802.11ac MIMO 80 MHz BW (11ac-80)	MCS 5 (G.I. 800 ns), PN9
IEEE 802.11ax MIMO 80 MHz BW (11ax-80)	MCS 7 (G.I. 1600 ns), PN9
<p>*Power of the EUT was set by the software as follows; Power Setting: Refer to Power Setting table below. Software: OFDM: wifi_5g_serial_v3 OFDMA: OFDMA_TX_5G_Serial_v4 (Date: 2024.06.25 (OFDM) / 2024.04.28 (OFDMA), Storage location: Driven by connected PC)</p> <p>*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.</p> <p>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 802.11ax mode by the pre-test.</p>	

Power Setting (dBm)

Mode		20 MHz BW	40 MHz BW	80 MHz BW
11ac		-	-	2.0
11ax	OFDM	3.0	2.5	2.0
	OFDMA			
		26-tone RU	2.0	2.0
		52-tone RU	3.0	2.5
		106-tone RU	3.0	2.5
		242-tone RU	3.0	2.5
		484-tone RU	-	2.5
		996-tone RU	-	-

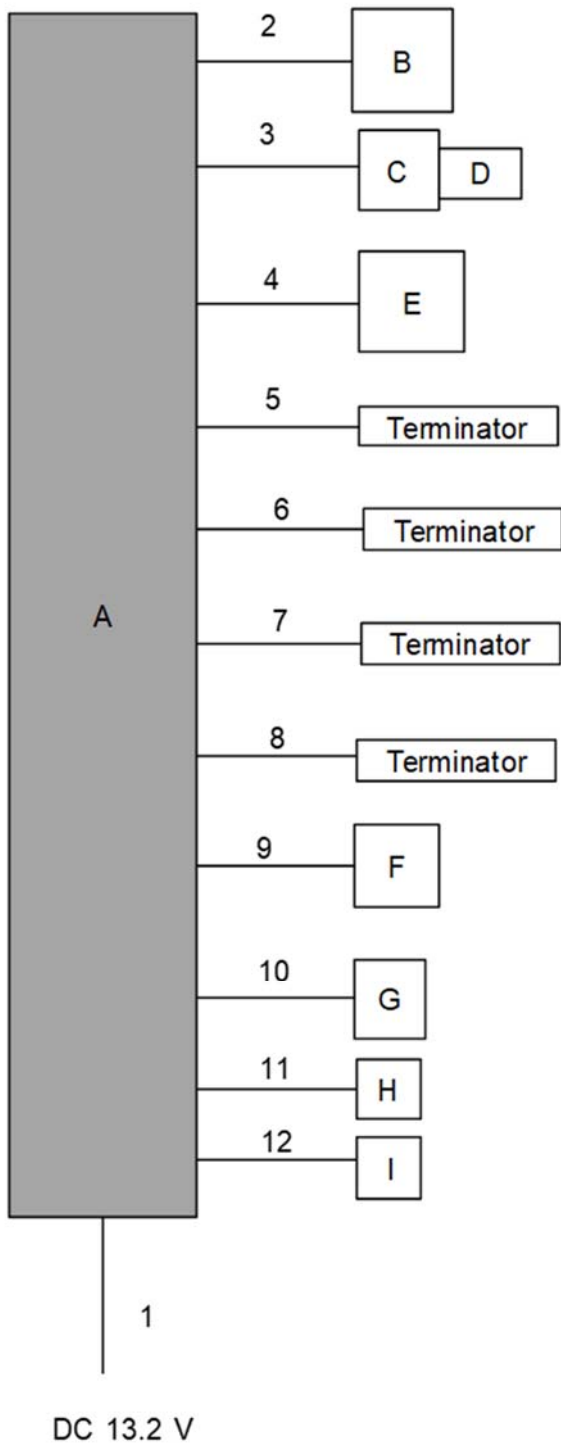
*The Details of Operation Mode(s)

Test Item	Operating Mode	Tested Antenna	Tested Frequency	
			Lower Band	Upper Band
Radiated Spurious Emission (Below 1 GHz)	Tx 11ax-20 [OFDMA] *1)	Chain 1+2	-	5825 MHz
Radiated Spurious Emission (Above 1 GHz)	Tx 11ax-20 [OFDM] *2)	Chain 1+2	5180 MHz	5745 MHz
	Tx 11ax-20 [OFDMA] *3)		5220 MHz	5785 MHz
			5240 MHz	5825 MHz
	Tx 11ax-40 [OFDM] *2)		5190 MHz	5755 MHz
	Tx 11ax-40 [OFDMA] *3)		5230 MHz	5795 MHz
	Tx 11ac-80 *4)		-	5775 MHz
	Tx 11ax-80 [OFDM] *4)		5210 MHz	5775 MHz
	Tx 11ax-80 [OFDMA] *3)			
<p>*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 (11a / 11n-20 / 11ac-20 / 11ax-20) and 40 MHz BW (11n-40 / 11ac-40 / 11ax-40) have the same modulation method and no differences in transmitting specification, the test was performed with the representative mode that had the highest output power. *3) For other than mode that had the highest output power, the test was performed only at the band edges. *4) Since 80 MHz BW (11ac-80 / 11ax-80) have the same modulation method and no differences in transmitting specification, the test was performed with the representative mode and channel that had the highest output power.</p>				

Simultaneous transmission

Test Item	Mode
Radiated Spurious Emission	Tx 11ax-40 [OFDM] 5190 MHz + 3DH5 Hopping *1) Tx 11ax-40 [OFDM] 5190 MHz + 11ax-20 [OFDM] 2462 MHz *2)
<p>*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 BT. *2) The test was conducted on representative mode, the worst mode of GHz band at Spurious emission test for WLAN 5 GHz band (OFDM) and the mode had the highest power at Antenna terminal conducted test for WLAN 2.4 GHz band (OFDM).</p>	

4.2 Configuration and Peripherals



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

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Car Navigation	AT2403	500001	Panasonic Automotive Systems Co., Ltd.	EUT
B	ADAS Jig	GVIF3OUT2A	8	Persol AVC Technology Co., Ltd.	-
C	USB BOX	DEP38-10029	-	Japan Aviation Electronics Industry, Ltd.	-
D	USB Memory	RUF3-K16GB	P10416	Buffalo	-
E	Steering switch	-	1400	Panasonic	-
F	GPS Antenna	ANN-MS	20N40132	U-Blox	-
G	Microphone	SDA3520A	4AC011628	Panasonic	-
H	Microphone	SDA3520A	4AC011628	Panasonic	-
I	Amplifier	7669	01A230000384V	DENSO	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	4.3	Unshielded	Unshielded	-
2	Signal Cable	1.9	Unshielded	Unshielded	-
3	USB Cable	2.3	Shielded	Shielded	-
4	Signal Cable	3.0	Unshielded	Unshielded	-
5	XM Antenna Cable	3.0	Shielded	Shielded	-
6	Signal Cable	1.0	Shielded	Shielded	-
7	FM Cable	3.0	Shielded	Shielded	-
8	FM Cable	3.0	Shielded	Shielded	-
9	GPS Antenna Cable	2.0	Shielded	Shielded	-
10	Signal Cable	4.3	Unshielded	Unshielded	-
11	Signal Cable	4.3	Unshielded	Unshielded	-
12	Signal Cable	3.0	Unshielded	Unshielded	-

SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 1.0 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 5.8 GHz band Bandedge

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

Restricted band edge:

Apply to limit in the Section 15.209 (a).

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

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

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

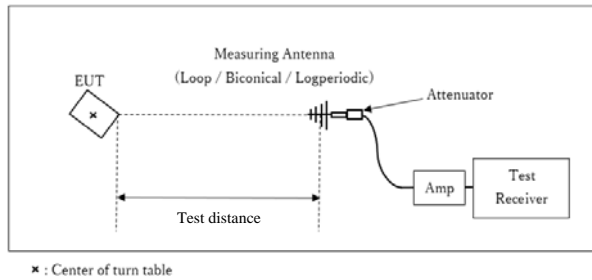
Test Antennas are used as below;

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

Frequency	Below 1 GHz	Above 1 GHz	
Instrument Used	Test Receiver	Spectrum Analyzer	
Detector	QP	Peak	Average
IF Bandwidth	BW: 120 kHz	RBW: 1 MHz 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.

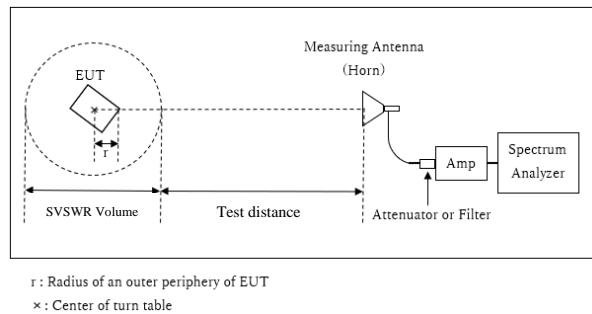
Figure 2: Test Setup

Below 1 GHz



Test Distance: 3 m

1 GHz to 10 GHz



**Other than 11ax-40 [OFDM] 5190 MHz +
11ax-20 [OFDM] 2462 MHz**

[1 GHz to 6 GHz]

Distance Factor: $20 \times \log (3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

* Test Distance: $(3 + \text{SVSWR Volume} / 2) - r = 3.8 \text{ m}$

SVSWR Volume : 2.0 m

(SVSWR Volume has been calibrated based on CISPR 16-1-4.)

r = 0.2 m

[6 GHz to 10 GHz]

Distance Factor: $20 \times \log (4.8 \text{ m} / 3.0 \text{ m}) = 4.09 \text{ dB}$

* Test Distance: $(4.3 + \text{SVSWR Volume} / 2) - r = 4.8 \text{ m}$

SVSWR Volume : 1.4 m

(SVSWR Volume has been calibrated based on CISPR 16-1-4.)

r = 0.2 m

**Only 11ax-40 [OFDM] 5190 MHz +
11ax-20 [OFDM] 2462 MHz**

[1 GHz to 6 GHz]

Distance Factor: $20 \times \log (3.55 \text{ m} / 3.0 \text{ m}) = 1.47 \text{ dB}$

* Test Distance: $(3 + \text{SVSWR Volume} / 2) - r = 3.55 \text{ m}$

SVSWR Volume : 1.5 m

(SVSWR Volume has been calibrated based on CISPR 16-1-4.)

r = 0.2 m

[6 GHz to 10 GHz]

Distance Factor: $20 \times \log (3.55 \text{ m} / 3.0 \text{ m}) = 1.47 \text{ dB}$

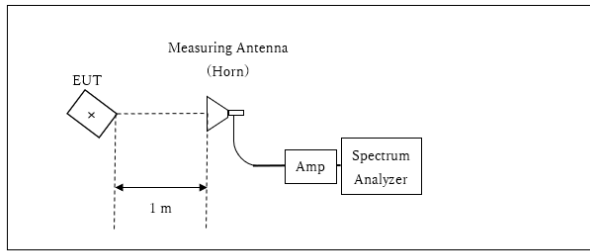
* Test Distance: $(3.25 + \text{SVSWR Volume} / 2) - r = 3.55 \text{ m}$

SVSWR Volume : 1.0 m

(SVSWR Volume has been calibrated based on CISPR 16-1-4.)

r = 0.2 m

10 GHz to 40 GHz



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

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

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

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

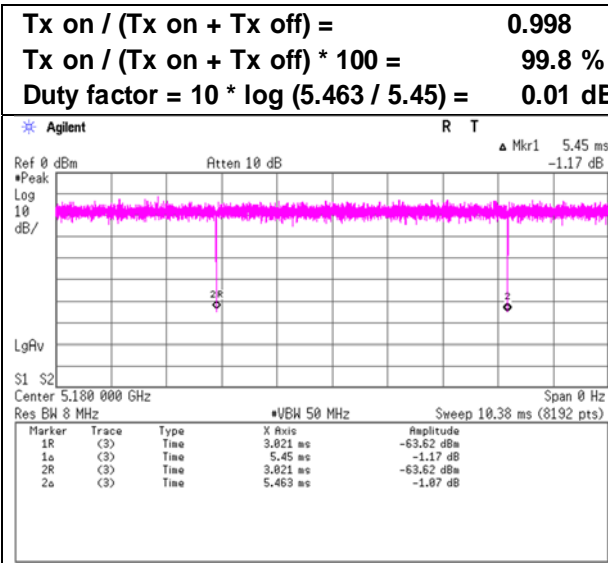
APPENDIX 1: Test Data

Burst rate confirmation

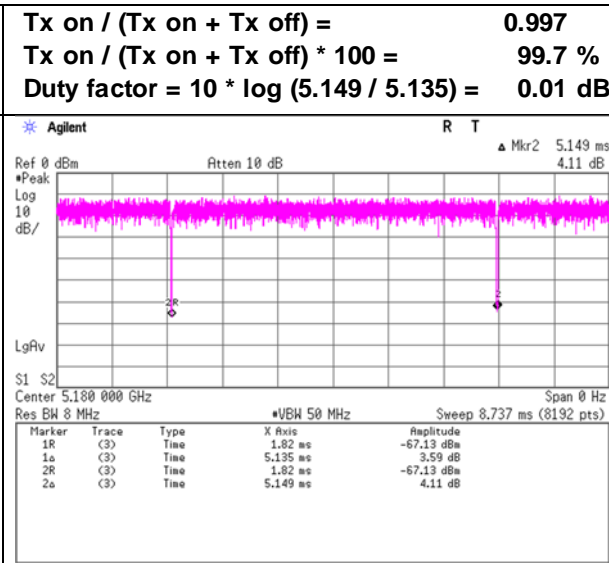
Test place
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab. No.3 Semi Anechoic Chamber
October 31, 2024
21 deg. C / 62 % RH
Tetsuro Yoshida
Tx

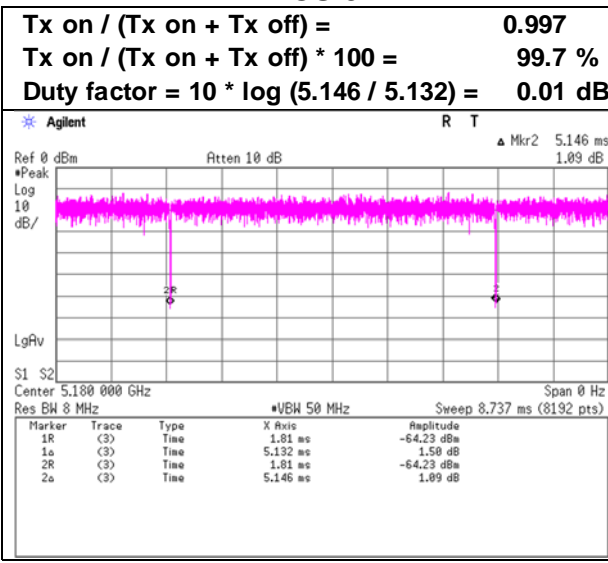
11ax-20 [OFDM]
MCS 5



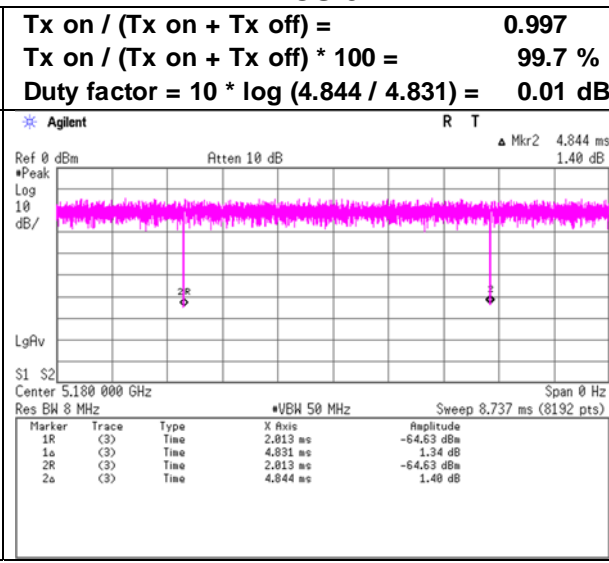
11ax-20 [26-tone RU]
MCS 5



11ax-20 [52-tone RU]
MCS 5



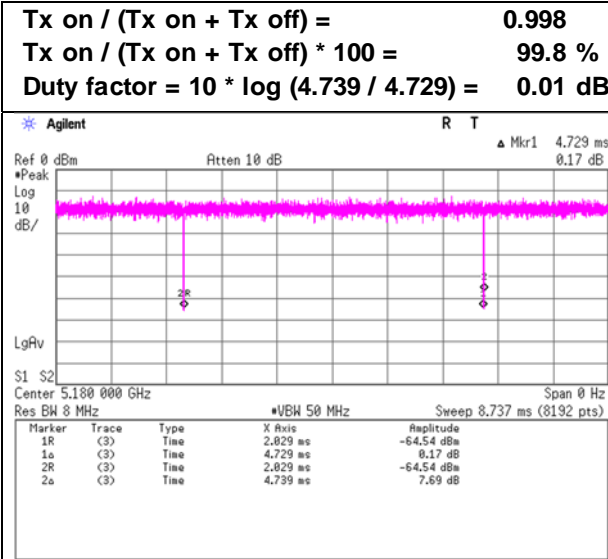
11ax-20 [106-tone RU]
MCS 5



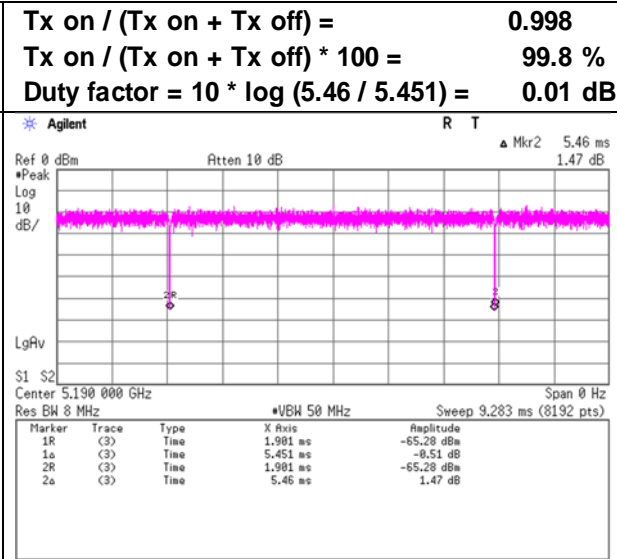
Burst rate confirmation

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date October 31, 2024
Temperature / Humidity 21 deg. C / 62 % RH
Engineer Tetsuro Yoshida
Mode Tx

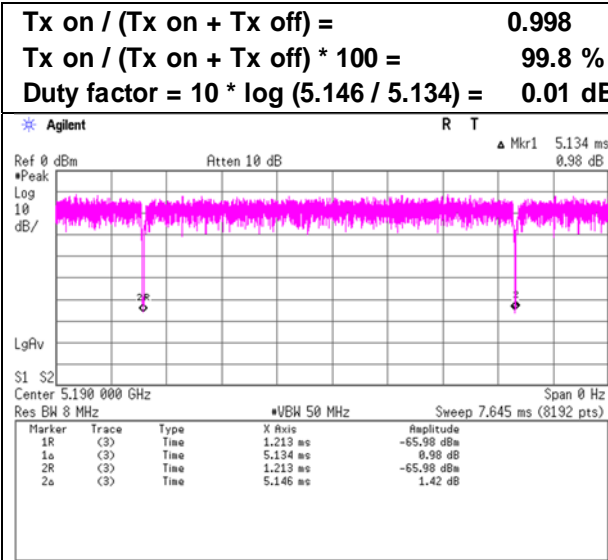
**11ax-20 [242-tone RU]
MCS 5**



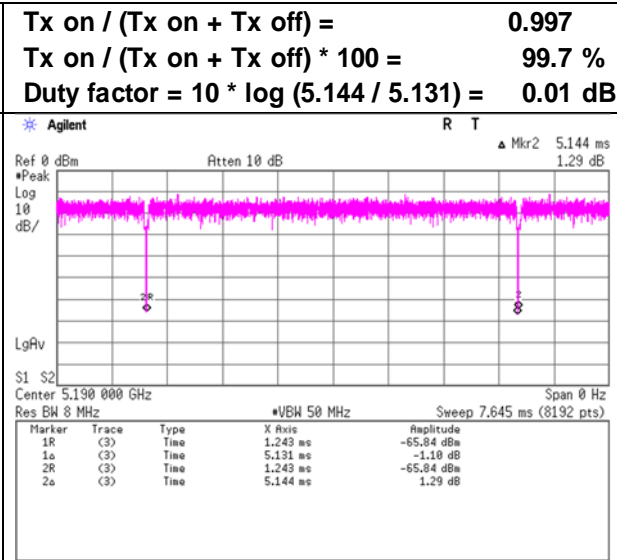
**11ax-40 [OFDM]
MCS 10**



**11ax-40 [26-tone RU]
MCS 10**



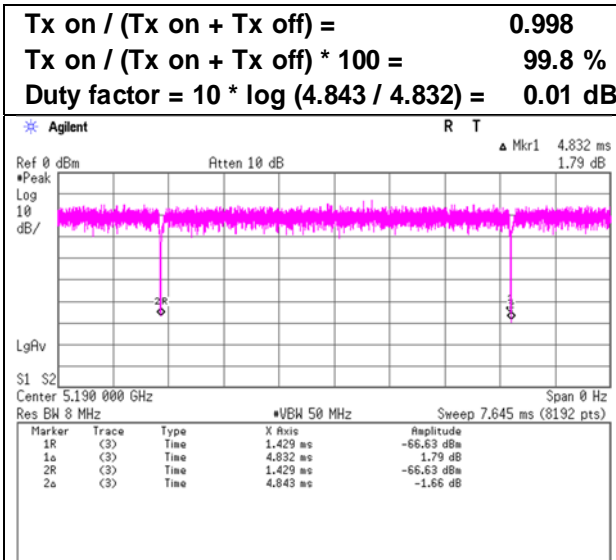
**11ax-40 [52-tone RU]
MCS 10**



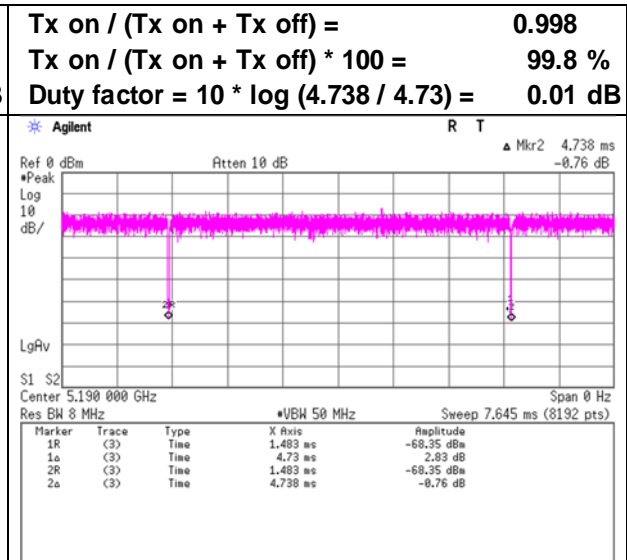
Burst rate confirmation

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date October 31, 2024
Temperature / Humidity 21 deg. C / 62 % RH
Engineer Tetsuro Yoshida
Mode Tx

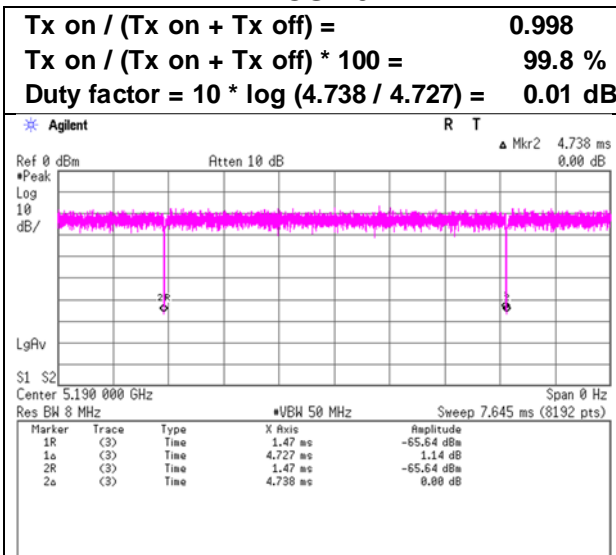
11ax-40 [106-tone RU] MCS 10



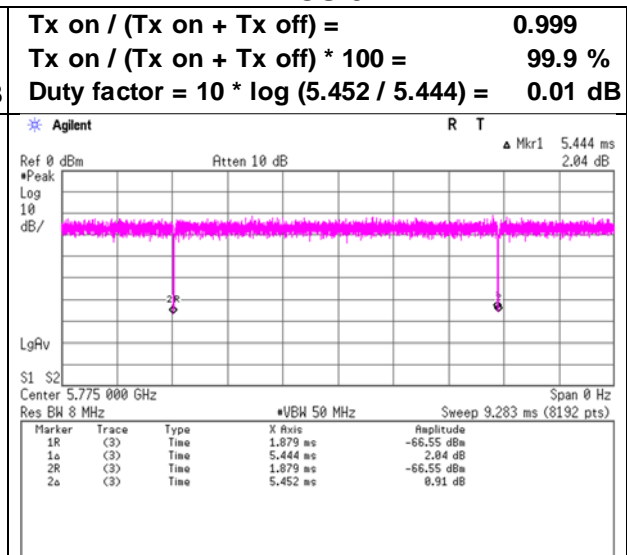
11ax-40 [242-tone RU] MCS 10



11ax-40 [484-tone RU] MCS 10



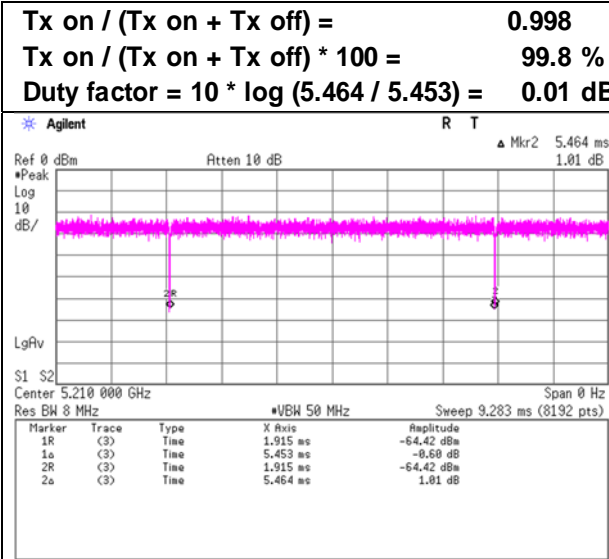
11ac-80 MCS 5



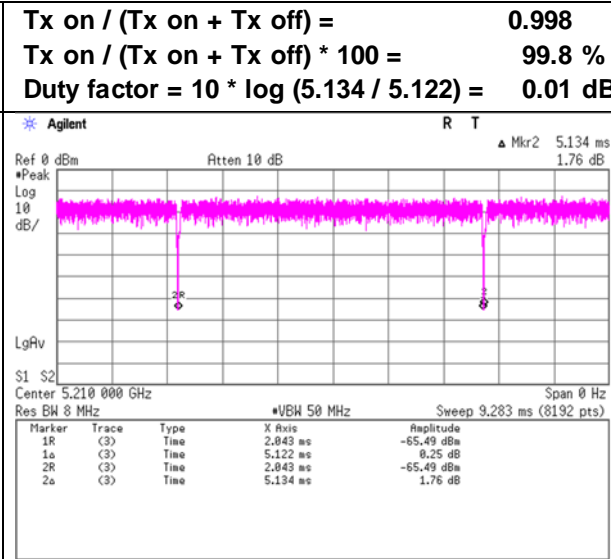
Burst rate confirmation

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber
Date October 31, 2024
Temperature / Humidity 21 deg. C / 62 % RH
Engineer Tetsuro Yoshida
Mode Tx

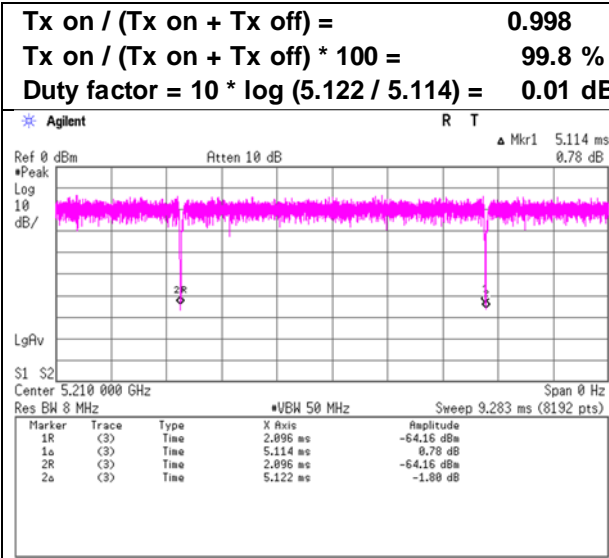
**11ax-80 [OFDM]
MCS 7**



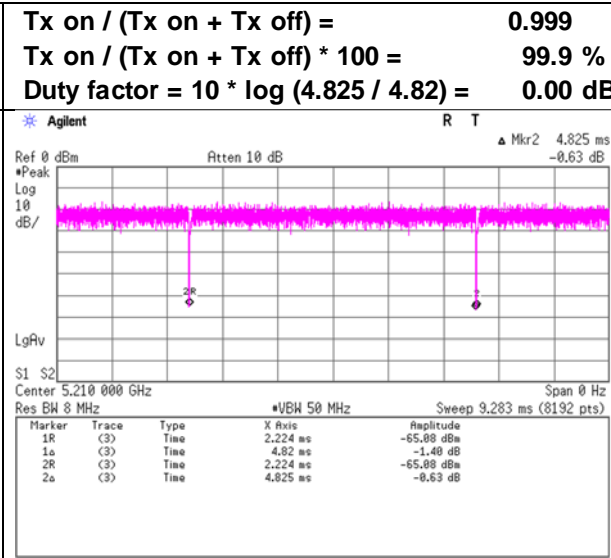
**11ax-80 [26-tone RU]
MCS 7**



**11ax-80 [52-tone RU]
MCS 7**



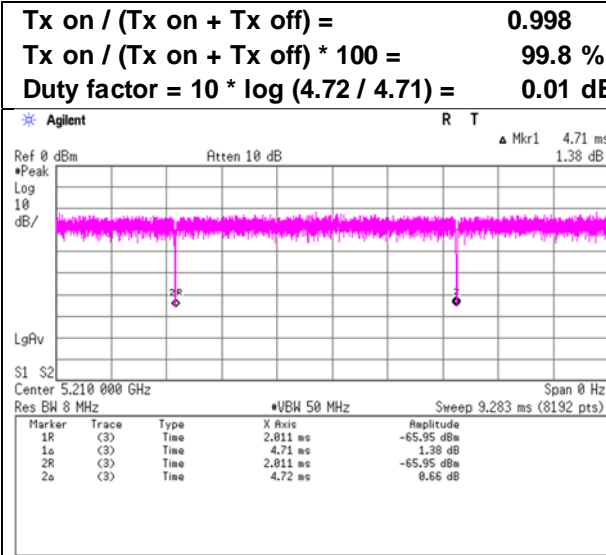
**11ax-80 [106-tone RU]
MCS 7**



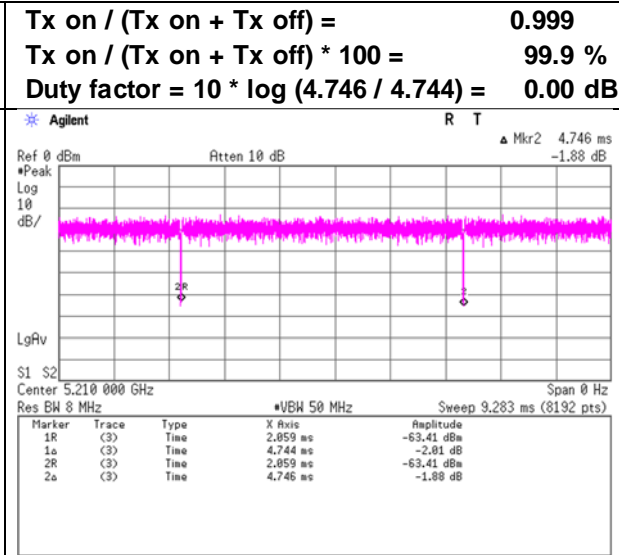
Burst rate confirmation

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Date	October 31, 2024
Temperature / Humidity	21 deg. C / 62 % RH
Engineer	Tetsuro Yoshida
Mode	Tx

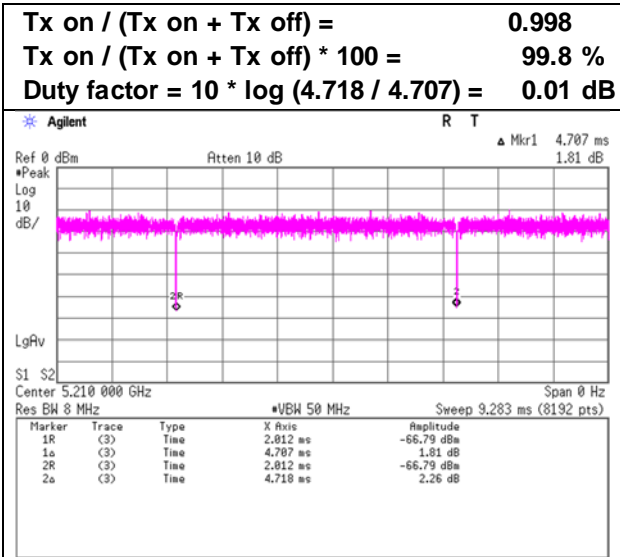
**11ax-80 [242-tone RU]
MCS 7**



**11ax-80 [484-tone RU]
MCS 7**



**11ax-80 [996-tone RU]
MCS 7**



Radiated Spurious Emission

Test place	Ise EMC Lab.		
Semi Anechoic Chamber	No.3	No.3	No.3
Date	October 31, 2024	October 29, 2024	October 29, 2024
Temperature / Humidity	21 deg. C / 62 % RH	23 deg. C / 66 % RH	22 deg. C / 59 % RH
Engineer	Tetsuro Yoshida (1 GHz to 6 GHz)	Tomoya Sone (6 GHz to 10 GHz)	Tetsuro Yoshida (10 GHz to 18 GHz)
Semi Anechoic Chamber	No.3	No.3	
Date	October 28, 2024	October 28, 2024	
Temperature / Humidity	23 deg. C / 56 % RH	23 deg. C / 65 % RH	
Engineer	Tomoya Sone (18 GHz to 26.5 GHz)	Tetsuro Yoshida (Above 26.5 GHz)	
Mode	Tx 11ax-20 [OFDM] 5180 MHz		

Polarity	Frequency	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.	5000.0	40.4	32.9	31.7	5.6	31.1	-	46.6	39.0	73.9	53.9	27.3	14.9	
Hori.	5150.0	40.5	32.2	31.8	5.6	31.1	-	46.8	38.5	73.9	53.9	27.1	15.4	
Hori.	5760.0	41.8	-	32.0	5.9	31.2	-	48.5	-	68.2	-	19.7	-	
Hori.	10360.0	42.6	-	35.9	-2.1	32.9	-	43.5	-	68.2	-	24.7	-	Floor noise
Hori.	15540.0	43.5	35.5	39.3	-0.1	32.0	-	50.6	42.7	73.9	53.9	23.3	11.2	Floor noise
Vert.	5000.0	42.8	38.2	31.7	5.6	31.1	-	48.9	44.3	73.9	53.9	25.0	9.6	
Vert.	5150.0	40.9	30.3	31.8	5.6	31.1	-	47.2	36.6	73.9	53.9	26.7	17.3	
Vert.	5760.0	41.6	-	32.0	5.9	31.2	-	48.3	-	68.2	-	20.0	-	
Vert.	10360.0	42.7	-	35.9	-2.1	32.9	-	43.5	-	68.2	-	24.7	-	Floor noise
Vert.	15540.0	43.2	35.6	39.3	-0.1	32.0	-	50.4	42.8	73.9	53.9	23.5	11.1	Floor noise

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

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

*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.

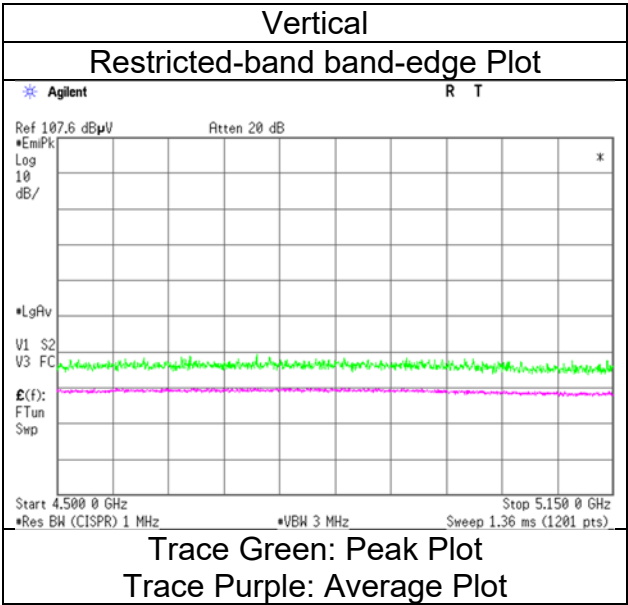
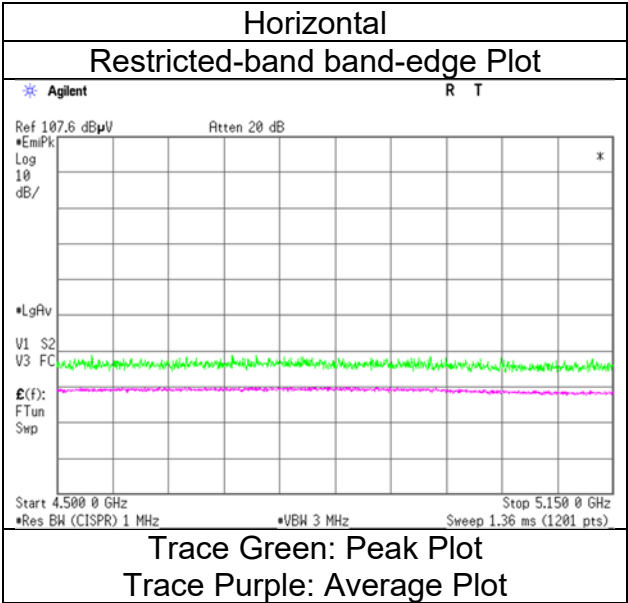
Distance factor:	1 GHz - 6 GHz	$20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$
	6 GHz - 10 GHz	$20\log(4.8 \text{ m} / 3.0 \text{ m}) = 4.09 \text{ dB}$
	10 GHz - 40 GHz	$20\log(1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
21 deg. C / 62 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-20 [OFDM] 5180 MHz



* 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 21 deg. C / 62 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tetsuro Yoshida Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)
Mode Tx 11ax-20 [OFDM] 5220 MHz

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.	5000.0	40.2	32.7	31.7	5.6	31.1	-	46.4	38.8	73.9	53.9	27.6	15.1	
Hori.	5760.0	42.9	-	32.0	5.9	31.2	-	49.6	-	68.2	-	18.7	-	
Hori.	10440.0	41.1	-	35.9	-2.1	32.9	-	42.0	-	68.2	-	26.2	-	Floor noise
Hori.	15660.0	43.8	36.1	39.4	-0.1	32.0	-	51.1	43.4	73.9	53.9	22.8	10.5	Floor noise
Vert.	5000.0	42.2	38.3	31.7	5.6	31.1	-	48.3	44.5	73.9	53.9	25.6	9.4	
Vert.	5760.0	41.0	-	32.0	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	10440.0	41.4	-	35.9	-2.1	32.9	-	42.3	-	68.2	-	25.9	-	Floor noise
Vert.	15660.0	44.3	35.7	39.4	-0.1	32.0	-	51.6	43.1	73.9	53.9	22.3	10.8	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 - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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

Ise EMC Lab.

No.3

October 31, 2024

21 deg. C / 62 % RH

Tetsuro Yoshida

No.3

October 29, 2024

23 deg. C / 66 % RH

Tomoya Sone

(6 GHz to 10 GHz)

No.3

October 29, 2024

22 deg. C / 59 % RH

Tetsuro Yoshida

(10 GHz to 18 GHz)

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

No.3

October 28, 2024

23 deg. C / 56 % RH

Tomoya Sone

(18 GHz to 26.5 GHz)

Tx 11ax-20 [OFDM] 5240 MHz

No.3

October 28, 2024

23 deg. C / 65 % RH

Tetsuro Yoshida

(Above 26.5 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.	5000.0	40.3	32.7	31.7	5.6	31.1	-	46.4	38.9	73.9	53.9	27.5	15.0	
Hori.	5350.0	40.4	32.4	31.6	5.7	31.1	-	46.6	38.5	73.9	53.9	27.3	15.4	
Hori.	5760.0	41.9	-	32.0	5.9	31.2	-	48.5	-	68.2	-	19.7	-	
Hori.	10480.0	42.4	-	36.0	-2.1	32.9	-	43.4	-	68.2	-	24.8	-	Floor noise
Hori.	15720.0	42.3	35.3	39.5	-0.1	32.0	-	49.7	42.7	73.9	53.9	24.2	11.2	Floor noise
Vert.	5000.0	41.8	38.7	31.7	5.6	31.1	-	48.0	44.8	73.9	53.9	25.9	9.1	
Vert.	5350.0	40.4	30.3	31.6	5.7	31.1	-	46.5	36.5	73.9	53.9	27.4	17.5	
Vert.	5760.0	40.7	-	32.0	5.9	31.2	-	47.4	-	68.2	-	20.8	-	
Vert.	10480.0	41.7	-	36.0	-2.1	32.9	-	42.7	-	68.2	-	25.5	-	Floor noise
Vert.	15720.0	44.0	35.4	39.5	-0.1	32.0	-	51.5	42.9	73.9	53.9	22.4	11.0	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.

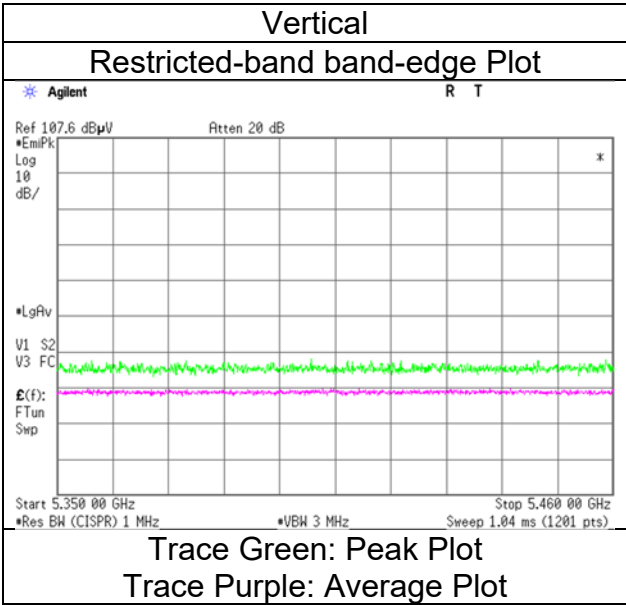
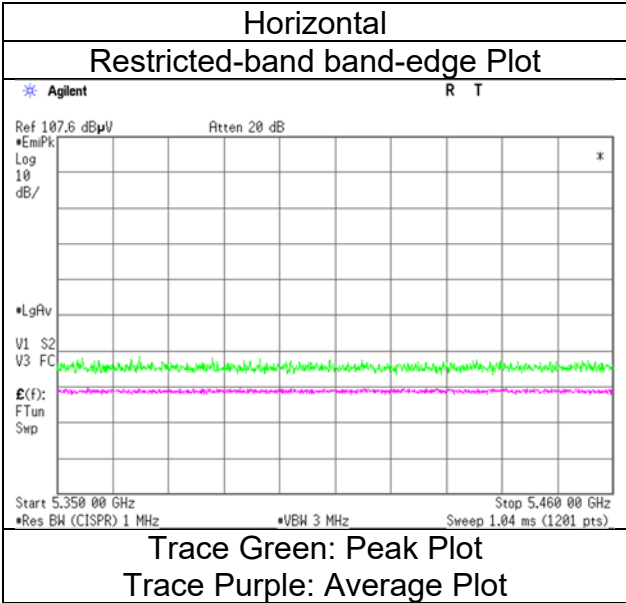
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
21 deg. C / 62 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-20 [OFDM] 5240 MHz



* 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 21 deg. C / 62 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tetsuro Yoshida Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)
Mode Tx 11ax-20 [OFDM] 5745 MHz

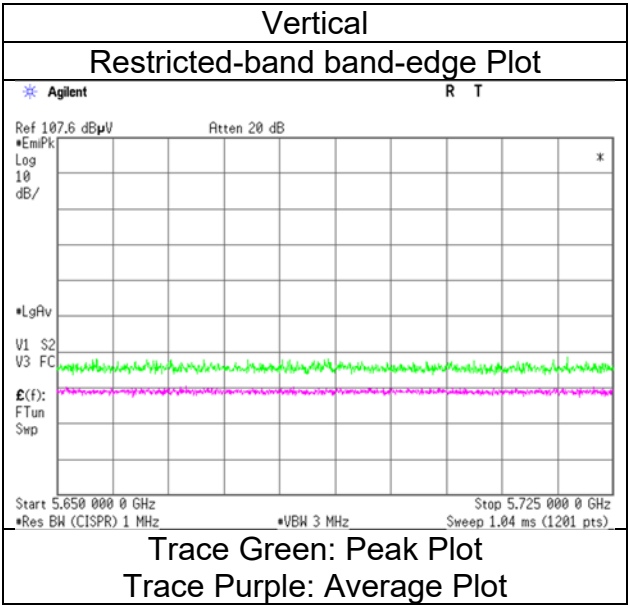
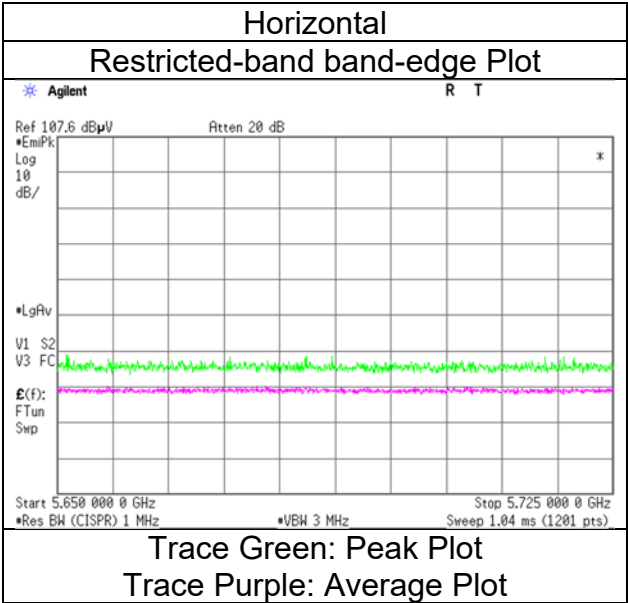
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5000.0	40.5	33.1	31.7	5.6	31.1	-	46.6	39.3	73.9	53.9	27.3	14.6	
Hori.	5650.0	40.1	-	31.7	5.8	31.2	-	46.5	-	68.2	-	21.7	-	
Hori.	5700.0	39.8	-	31.8	5.8	31.2	-	46.3	-	105.2	-	58.9	-	
Hori.	5720.0	41.3	-	31.9	5.8	31.2	-	47.9	-	110.8	-	62.9	-	
Hori.	5725.0	40.6	-	31.9	5.8	31.2	-	47.2	-	122.2	-	75.0	-	
Hori.	11490.0	42.4	34.6	37.5	-1.8	32.8	-	45.4	37.6	73.9	53.9	28.5	16.3	Floor noise
Hori.	17235.0	43.9	-	39.7	0.1	31.9	-	51.9	-	68.2	-	16.3	-	Floor noise
Vert.	5000.0	42.8	38.2	31.7	5.6	31.1	-	48.9	44.4	73.9	53.9	25.0	9.5	
Vert.	5650.0	40.4	-	31.7	5.8	31.2	-	46.8	-	68.2	-	21.4	-	
Vert.	5700.0	39.8	-	31.8	5.8	31.2	-	46.3	-	105.2	-	58.9	-	
Vert.	5720.0	41.4	-	31.9	5.8	31.2	-	48.0	-	110.8	-	62.8	-	
Vert.	5725.0	40.6	-	31.9	5.8	31.2	-	47.2	-	122.2	-	75.0	-	
Vert.	11490.0	42.7	34.4	37.5	-1.8	32.8	-	45.7	37.4	73.9	53.9	28.3	16.5	Floor noise
Vert.	17235.0	42.9	-	39.7	0.1	31.9	-	50.9	-	68.2	-	17.3	-	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.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3
Date	October 31, 2024
Temperature / Humidity	21 deg. C / 62 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [OFDM] 5745 MHz



* 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 21 deg. C / 62 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tetsuro Yoshida Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)
Mode Tx 11ax-20 [OFDM] 5785 MHz

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.	5000.0	40.5	32.0	31.7	5.6	31.1	-	46.6	38.1	73.9	53.9	27.3	15.8	Floor noise
Hori.	11570.0	41.8	33.9	37.5	-1.7	32.8	-	44.9	37.0	73.9	53.9	29.0	17.0	Floor noise
Hori.	17355.0	42.9	-	39.8	0.1	31.9	-	50.9	-	68.2	-	17.3	-	Floor noise
Vert.	5000.0	42.3	38.1	31.7	5.6	31.1	-	48.4	44.3	73.9	53.9	25.5	9.6	Floor noise
Vert.	11570.0	42.9	3.9	37.5	-1.7	32.8	-	46.0	7.0	73.9	53.9	27.9	46.9	Floor noise
Vert.	17355.0	43.2	-	39.8	0.1	31.9	-	51.3	-	68.2	-	16.9	-	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 21 deg. C / 62 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tetsuro Yoshida Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)
Mode Tx 11ax-20 [OFDM] 5825 MHz

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.	5000.0	40.7	33.8	31.7	5.6	31.1	-	46.8	39.9	73.9	53.9	27.1	14.0	
Hori.	5850.0	40.5	-	32.2	5.9	31.2	-	47.4	-	122.2	-	74.8	-	
Hori.	5855.0	40.3	-	32.2	5.9	31.2	-	47.2	-	110.8	-	63.6	-	
Hori.	5875.0	40.5	-	32.2	5.9	31.2	-	47.4	-	105.2	-	57.8	-	
Hori.	5925.0	40.4	-	32.3	5.9	31.2	-	47.4	-	68.2	-	20.8	-	
Hori.	11650.0	41.4	34.0	37.6	-1.6	32.7	-	44.6	37.2	73.9	53.9	29.3	16.7	Floor noise
Hori.	17475.0	42.9	-	39.9	0.1	31.9	-	50.9	-	68.2	-	17.3	-	Floor noise
Vert.	5000.0	42.5	38.4	31.7	5.6	31.1	-	48.7	44.6	73.9	53.9	25.2	9.4	
Vert.	5850.0	40.1	-	32.2	5.9	31.2	-	47.0	-	122.2	-	75.2	-	
Vert.	5855.0	40.3	-	32.2	5.9	31.2	-	47.2	-	110.8	-	63.6	-	
Vert.	5875.0	39.4	-	32.2	5.9	31.2	-	46.4	-	105.2	-	58.8	-	
Vert.	5925.0	40.9	-	32.3	5.9	31.2	-	47.9	-	68.2	-	20.3	-	
Vert.	11650.0	42.1	34.4	37.6	-1.6	32.7	-	45.3	37.6	73.9	53.9	28.6	16.3	Floor noise
Vert.	17475.0	42.4	-	39.9	0.1	31.9	-	50.5	-	68.2	-	17.7	-	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.

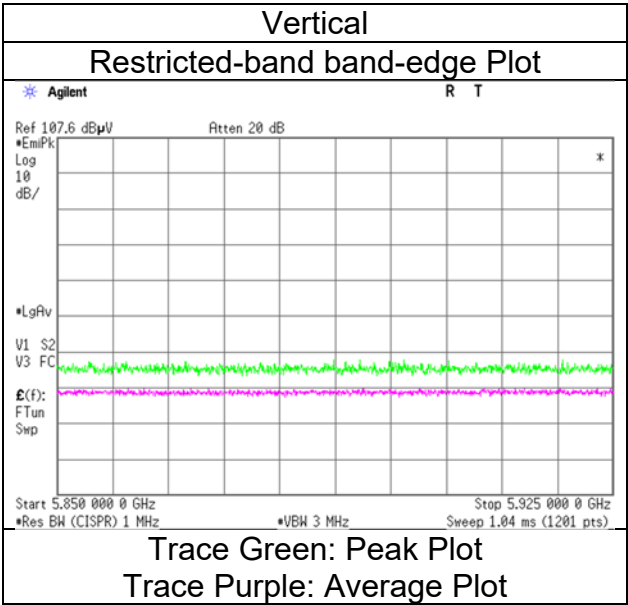
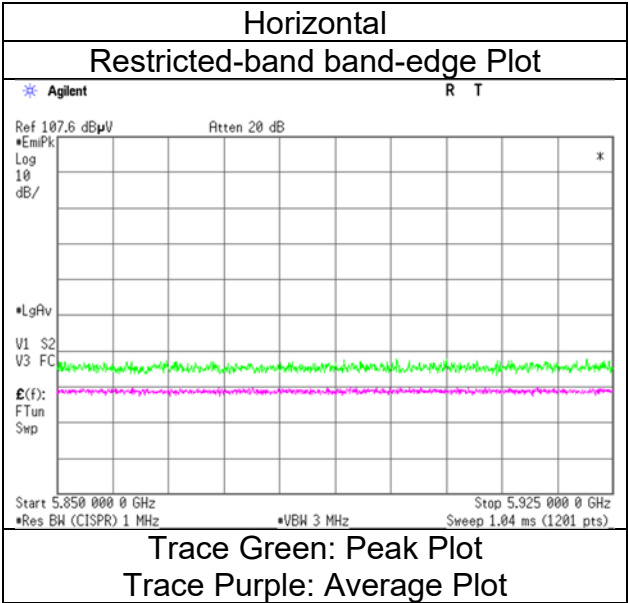
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
21 deg. C / 62 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-20 [OFDM] 5825 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 22 deg. C / 52 % RH
Engineer Shousei Hamaguchi
(1 GHz to 6 GHz)
Mode Tx 11ax-20 [26-tone RU/Index 0] 5180 MHz

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	42.7	30.7	31.7	5.6	31.1	-	48.9	36.9	73.9	53.9	25.0	17.0	
Vert.	5150.0	42.0	32.3	31.7	5.6	31.1	-	48.1	38.5	73.9	53.9	25.8	15.4	

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

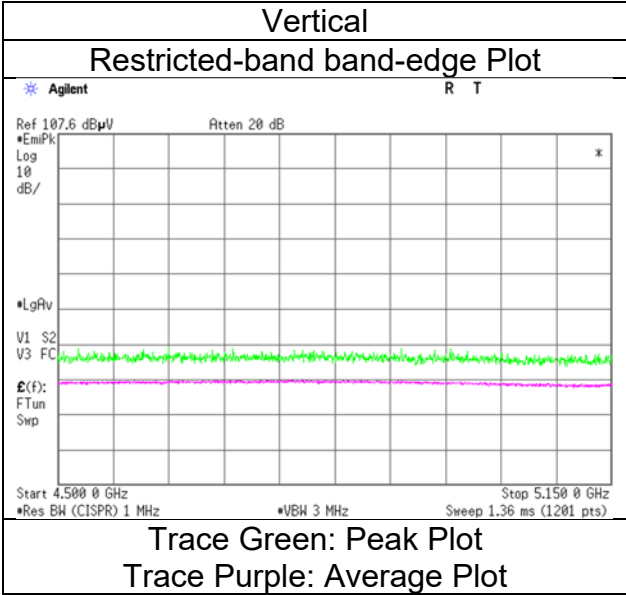
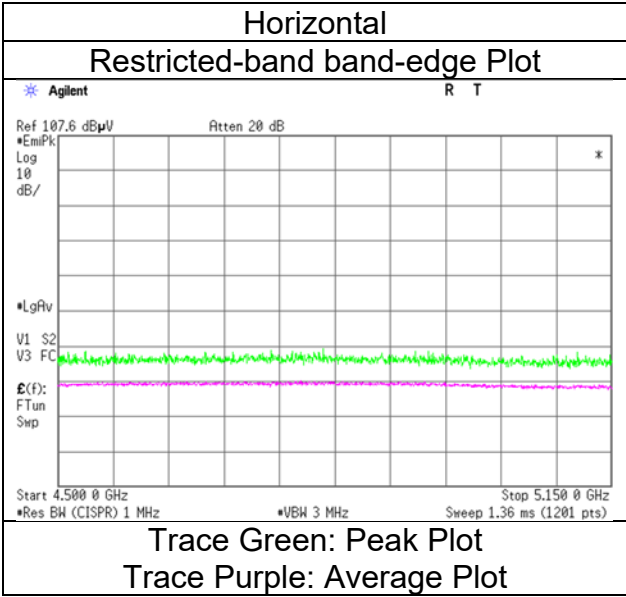
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [26-tone RU/Index 0] 5180 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-20 [52-tone RU/Index 37] 5180 MHz

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	42.0	30.6	31.7	5.6	31.1	-	48.2	36.8	73.9	53.9	25.7	17.1	
Vert.	5150.0	42.6	32.3	31.7	5.6	31.1	-	48.8	38.5	73.9	53.9	25.1	15.4	

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

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

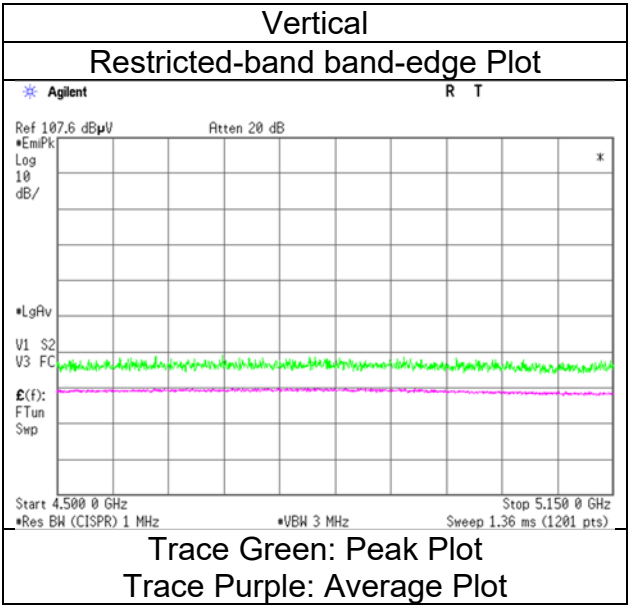
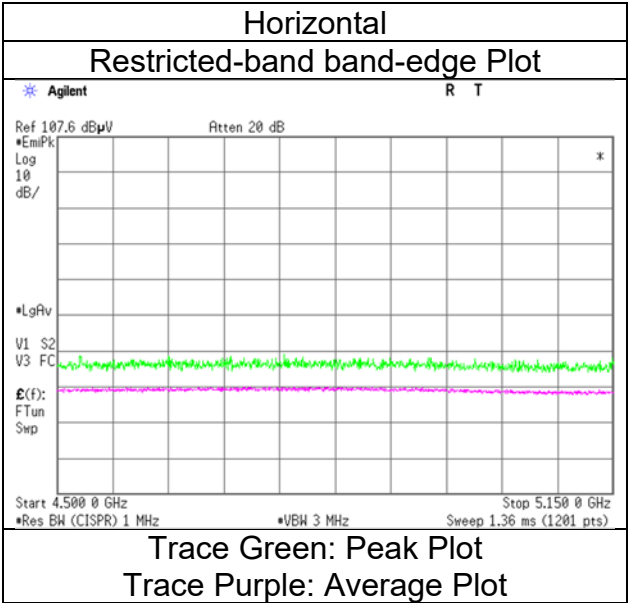
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [52-tone RU/Index 37] 5180 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 22 deg. C / 52 % RH
Engineer Shousei Hamaguchi
(1 GHz to 6 GHz)
Mode Tx 11ax-20 [106-tone RU/Index 53] 5180 MHz

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	42.2	30.2	31.7	5.6	31.1	-	48.3	36.4	73.9	53.9	25.6	17.5	
Vert.	5150.0	42.1	32.2	31.7	5.6	31.1	-	48.3	38.3	73.9	53.9	25.6	15.6	

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.

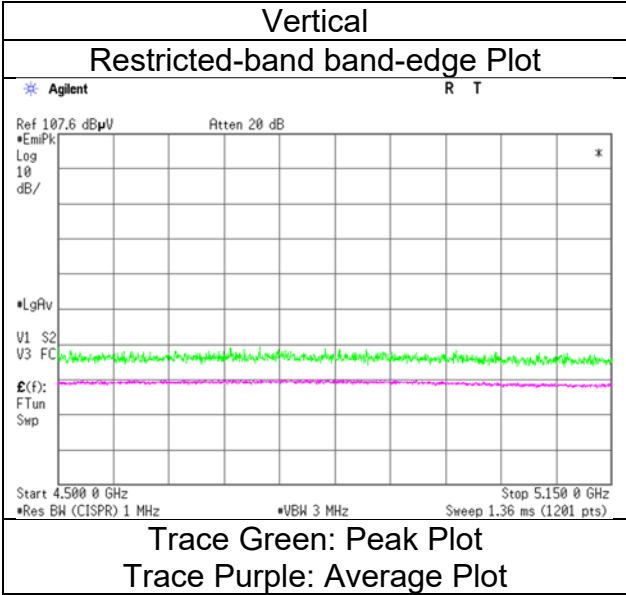
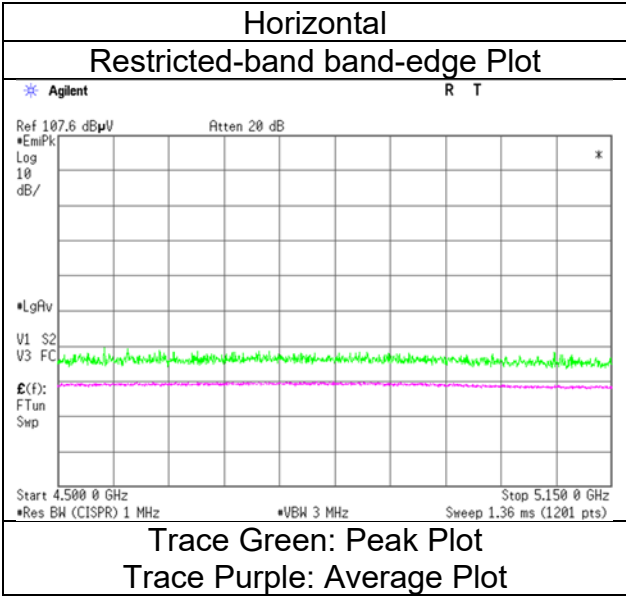
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [106-tone RU/Index 53] 5180 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-20 [242-tone RU/Index 61] 5180 MHz

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	41.8	30.3	31.7	5.6	31.1	-	48.0	36.4	73.9	53.9	25.9	17.5	
Vert.	5150.0	42.0	32.2	31.7	5.6	31.1	-	48.2	38.4	73.9	53.9	25.7	15.5	

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

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

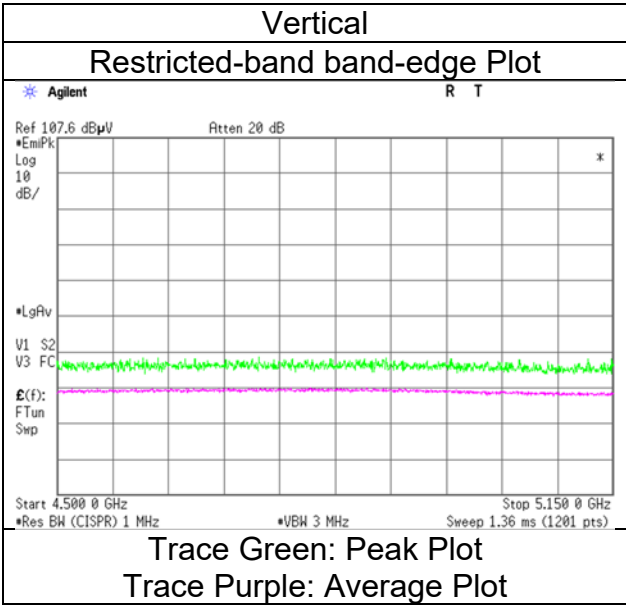
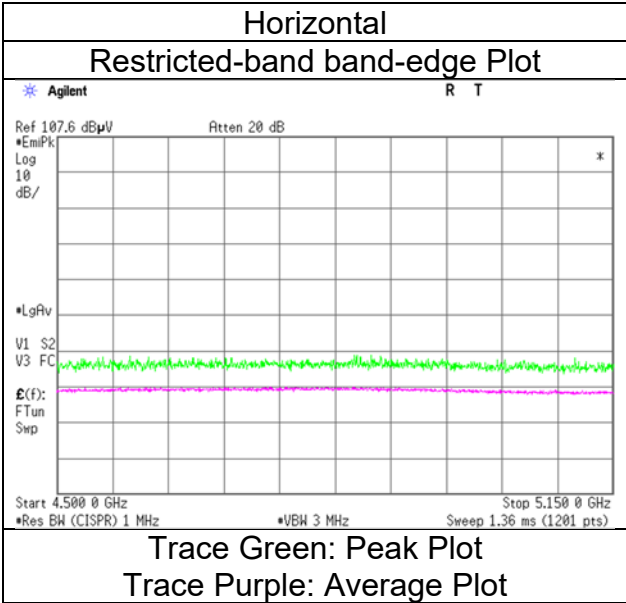
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [242-tone RU/Index 61] 5180 MHz



* 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.3	No.3	No.3
Date	October 31, 2024	October 29, 2024	October 29, 2024
Temperature / Humidity	23 deg. C / 51 % RH	23 deg. C / 66 % RH	22 deg. C / 59 % RH
Engineer	Tomoya Sone (1 GHz to 6 GHz)	Tomoya Sone (6 GHz to 10 GHz)	Tetsuro Yoshida (10 GHz to 18 GHz)
Semi Anechoic Chamber	No.3	No.3	
Date	October 28, 2024	October 28, 2024	
Temperature / Humidity	23 deg. C / 56 % RH	23 deg. C / 65 % RH	
Engineer	Tomoya Sone (18 GHz to 26.5 GHz)	Tetsuro Yoshida (Above 26.5 GHz)	
Mode	Tx 11ax-20 [242-tone RU/Index 61] 5220 MHz		

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.	5000.0	40.1	32.5	31.7	5.6	31.1	-	46.2	38.7	73.9	53.9	27.7	15.2	
Hori.	5760.0	43.7	-	32.0	5.9	31.2	-	50.4	-	68.2	-	17.8	-	
Hori.	10440.0	41.7	-	35.9	-2.1	32.9	-	42.6	-	68.2	-	25.6	-	Floor noise
Hori.	15660.0	44.0	35.6	39.4	-0.1	32.0	-	51.3	42.9	73.9	53.9	22.6	11.0	Floor noise
Vert.	5000.0	41.6	38.5	31.7	5.6	31.1	-	47.8	44.6	73.9	53.9	26.1	9.3	
Vert.	5760.0	43.3	-	32.0	5.9	31.2	-	50.0	-	68.2	-	18.3	-	
Vert.	10440.0	43.2	-	35.9	-2.1	32.9	-	44.2	-	68.2	-	24.0	-	Floor noise
Vert.	15660.0	43.6	35.5	39.4	-0.1	32.0	-	51.0	42.9	73.9	53.9	23.0	11.0	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 - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 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.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [26-tone RU/Index 8] 5240 MHz

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	41.9	30.3	31.5	5.7	31.1	-	48.0	36.3	73.9	53.9	25.9	17.6	
Vert.	5350.0	42.1	32.2	31.5	5.7	31.1	-	48.2	38.2	73.9	53.9	25.7	15.7	

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.

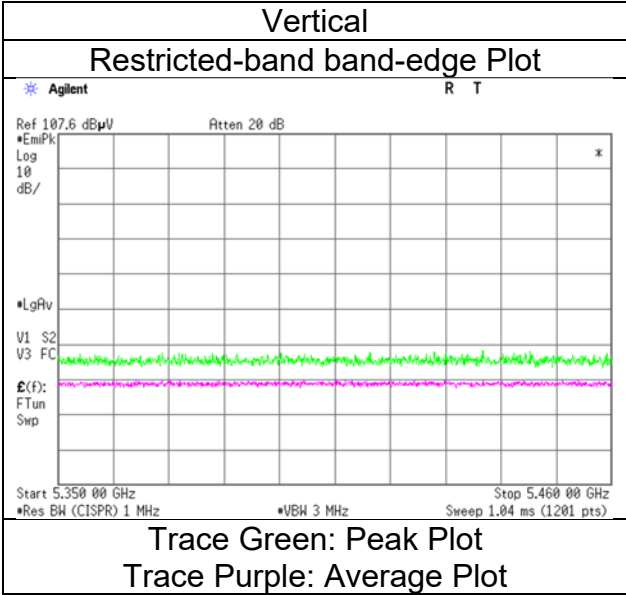
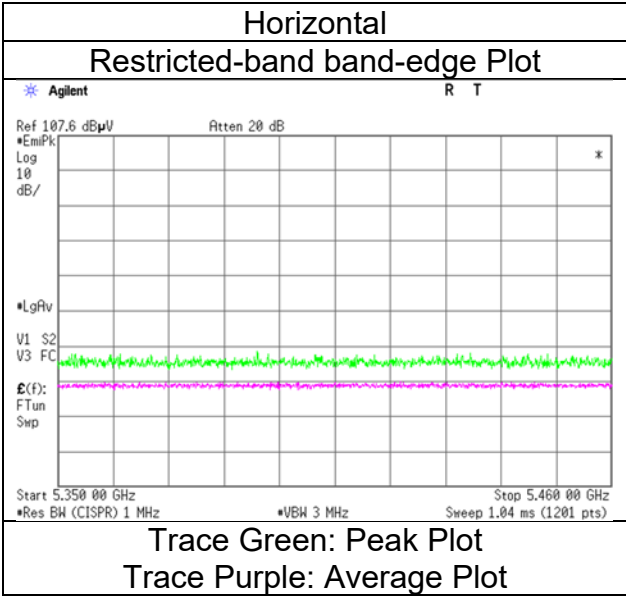
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [26-tone RU/Index 8] 5240 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 22 deg. C / 52 % RH
Engineer Shousei Hamaguchi
(1 GHz to 6 GHz)
Mode Tx 11ax-20 [52-tone RU/Index 40] 5240 MHz

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	42.0	30.5	31.5	5.7	31.1	-	48.1	36.5	73.9	53.9	25.8	17.4	
Vert.	5350.0	42.2	32.3	31.5	5.7	31.1	-	48.3	38.4	73.9	53.9	25.6	15.6	

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.

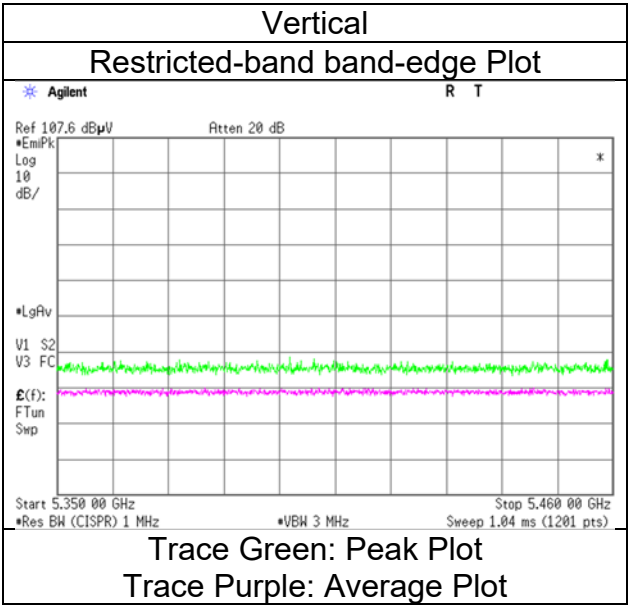
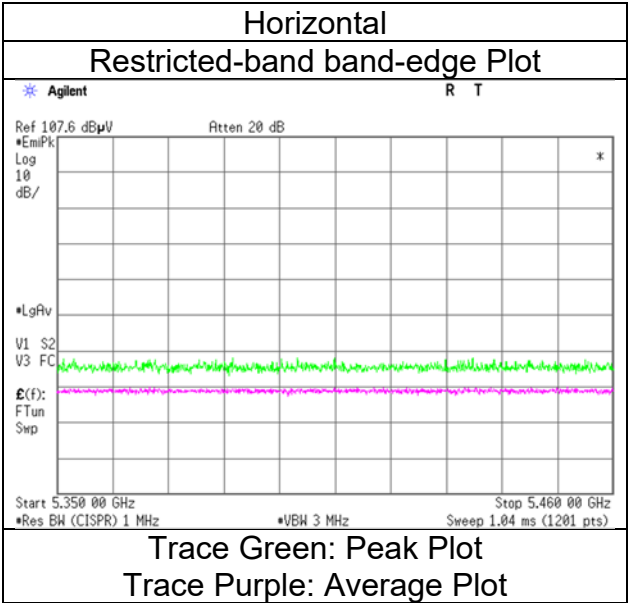
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [52-tone RU/Index 40] 5240 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [106-tone RU/Index 54] 5240 MHz

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	42.1	30.6	31.5	5.7	31.1	-	48.2	36.6	73.9	53.9	25.7	17.3	
Vert.	5350.0	42.1	32.3	31.5	5.7	31.1	-	48.1	38.3	73.9	53.9	25.8	15.6	

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

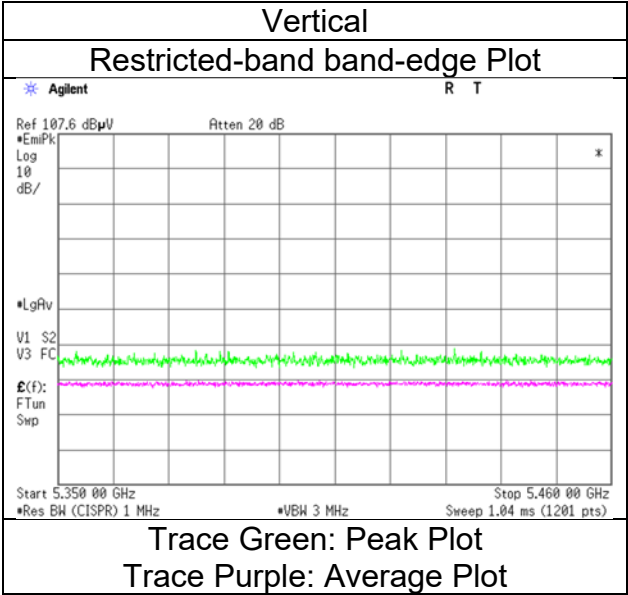
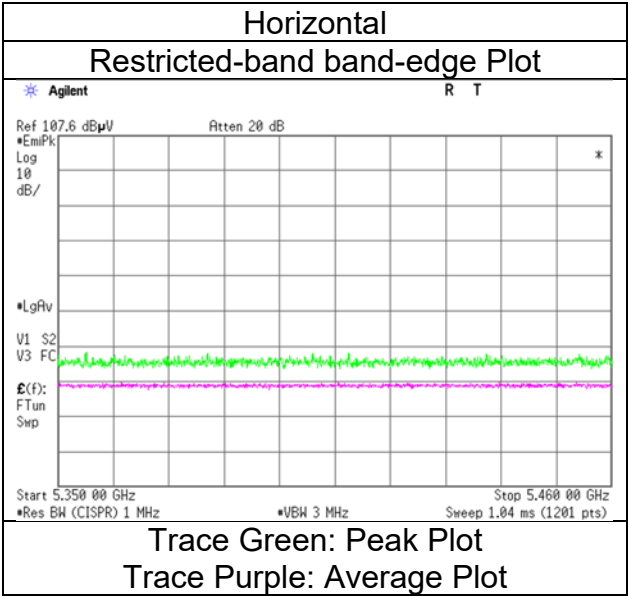
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [106-tone RU/Index 54] 5240 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [242-tone RU/Index 61] 5240 MHz

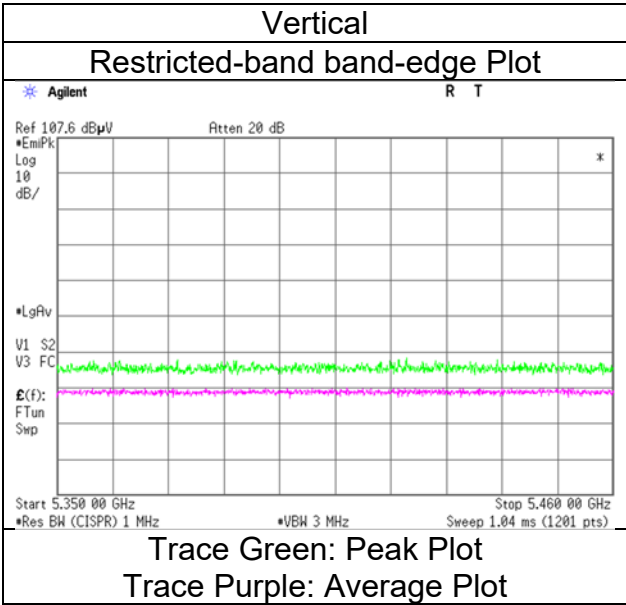
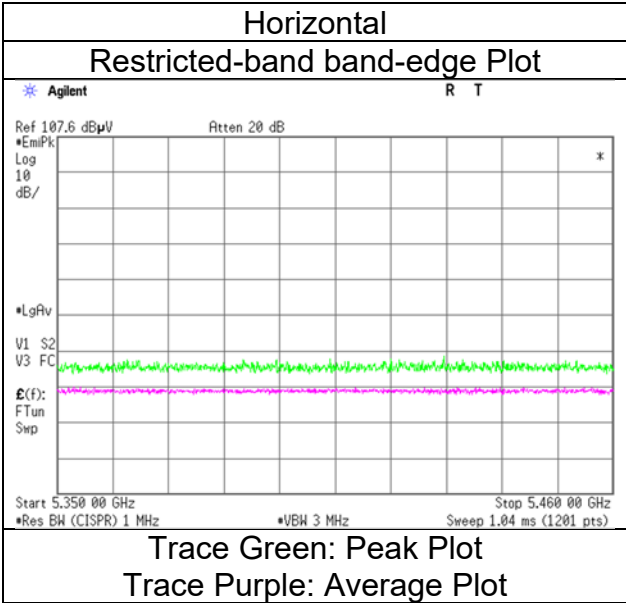
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5350.0	41.9	30.2	31.5	5.7	31.1	-	48.0	36.3	73.9	53.9	25.9	17.7	
Vert.	5350.0	42.3	32.7	31.5	5.7	31.1	-	48.3	38.7	73.9	53.9	25.6	15.2	

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 - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [242-tone RU/Index 61] 5240 MHz



* 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.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [26-tone RU/Index 0] 5745 MHz

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	42.0	-	31.8	5.8	31.2	-	48.4	-	68.2	-	19.8	-	
Hori.	5700.0	42.8	-	31.8	5.8	31.2	-	49.3	-	105.2	-	55.9	-	
Hori.	5720.0	42.9	-	31.9	5.8	31.2	-	49.5	-	110.8	-	61.3	-	
Hori.	5725.0	42.9	-	31.9	5.8	31.2	-	49.5	-	122.2	-	72.7	-	
Vert.	5650.0	42.2	-	31.8	5.8	31.2	-	48.6	-	68.2	-	19.6	-	
Vert.	5700.0	42.3	-	31.8	5.8	31.2	-	48.8	-	105.2	-	56.4	-	
Vert.	5720.0	42.6	-	31.9	5.8	31.2	-	49.2	-	110.8	-	61.6	-	
Vert.	5725.0	42.8	-	31.9	5.8	31.2	-	49.4	-	122.2	-	72.9	-	

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.

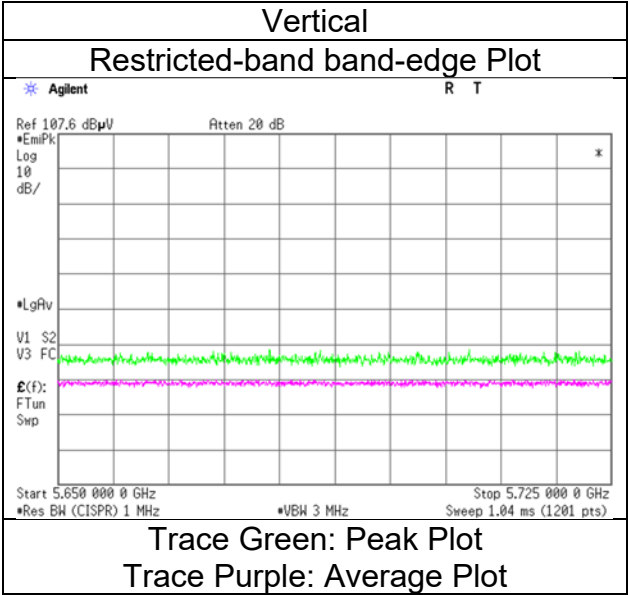
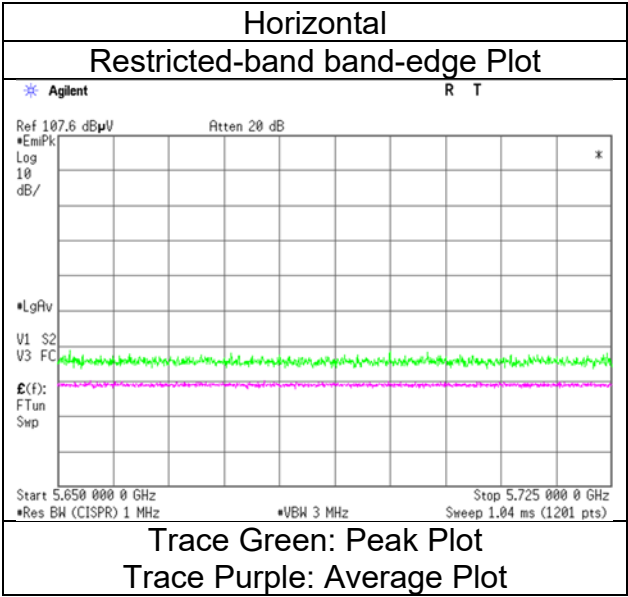
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [26-tone RU/Index 0] 5745 MHz



* 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.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [52-tone RU/Index 37] 5745 MHz

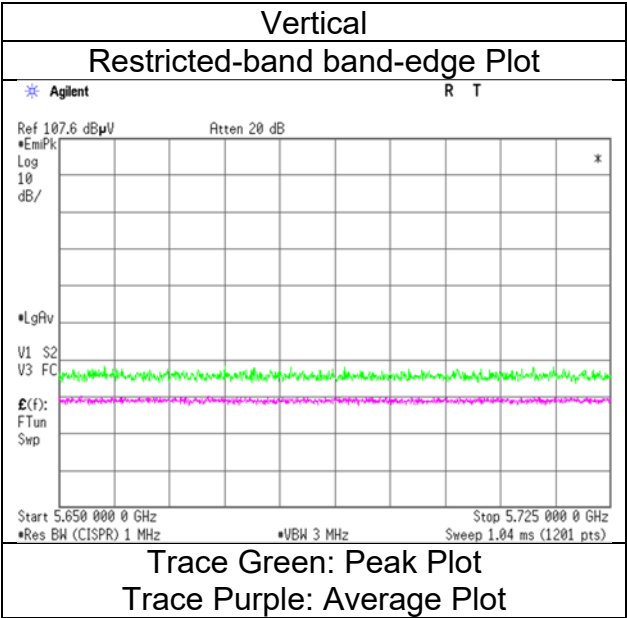
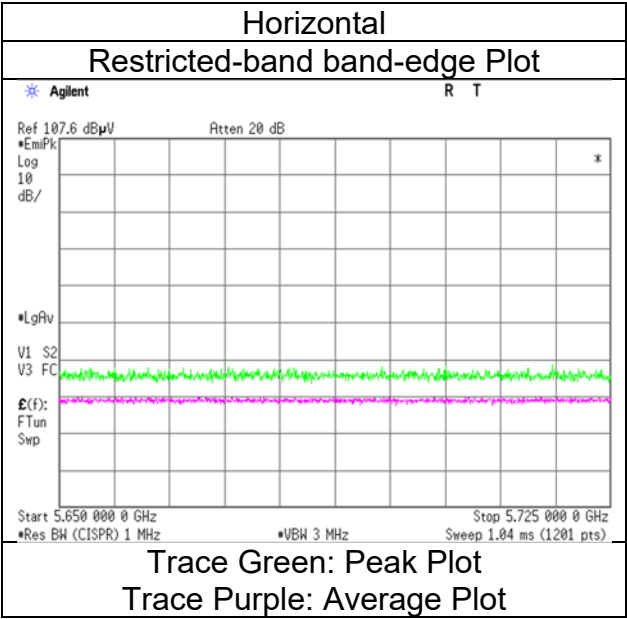
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	41.9	-	31.8	5.8	31.2	-	48.3	-	68.2	-	19.9	-	
Hori.	5700.0	42.6	-	31.8	5.8	31.2	-	49.1	-	105.2	-	56.1	-	
Hori.	5720.0	42.8	-	31.9	5.8	31.2	-	49.3	-	110.8	-	61.5	-	
Hori.	5725.0	42.9	-	31.9	5.8	31.2	-	49.5	-	122.2	-	72.7	-	
Vert.	5650.0	42.3	-	31.8	5.8	31.2	-	48.7	-	68.2	-	19.5	-	
Vert.	5700.0	42.5	-	31.8	5.8	31.2	-	49.0	-	105.2	-	56.2	-	
Vert.	5720.0	42.6	-	31.9	5.8	31.2	-	49.2	-	110.8	-	61.6	-	
Vert.	5725.0	42.9	-	31.9	5.8	31.2	-	49.5	-	122.2	-	72.8	-	

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 - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [52-tone RU/Index 37] 5745 MHz



* 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.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [106-tone RU/Index 53] 5745 MHz

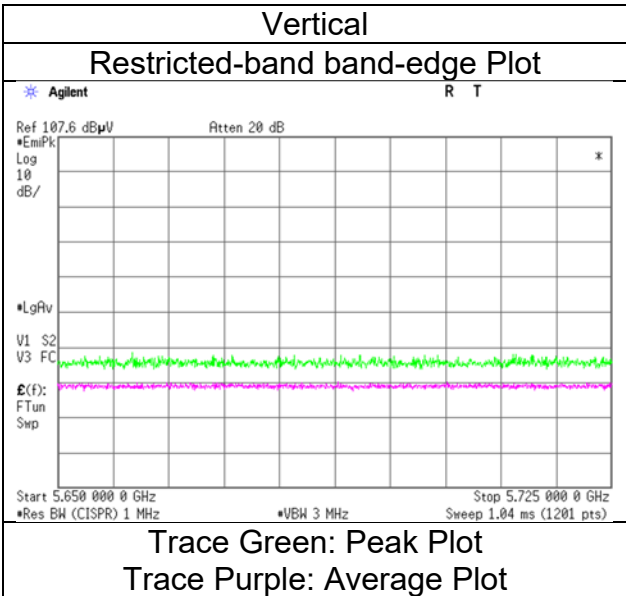
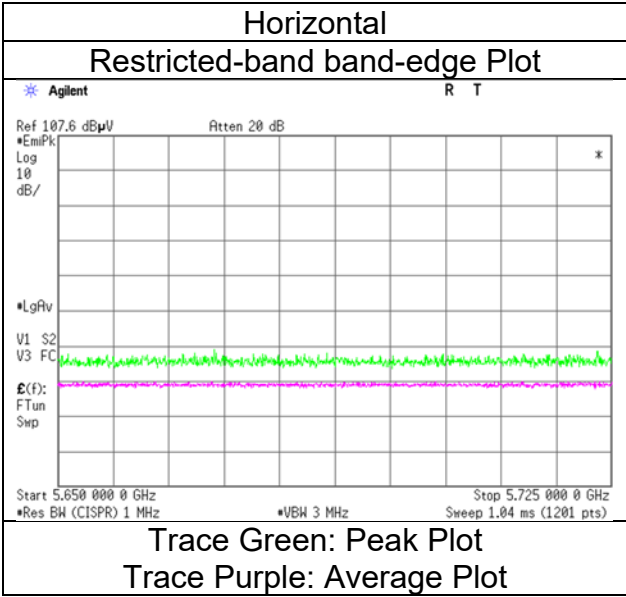
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	41.9	-	31.8	5.8	31.2	-	48.3	-	68.2	-	19.9	-	
Hori.	5700.0	42.7	-	31.8	5.8	31.2	-	49.2	-	105.2	-	56.0	-	
Hori.	5720.0	42.9	-	31.9	5.8	31.2	-	49.5	-	110.8	-	61.3	-	
Hori.	5725.0	43.2	-	31.9	5.8	31.2	-	49.8	-	122.2	-	72.4	-	
Vert.	5650.0	42.4	-	31.8	5.8	31.2	-	48.9	-	68.2	-	19.4	-	
Vert.	5700.0	42.5	-	31.8	5.8	31.2	-	49.0	-	105.2	-	56.2	-	
Vert.	5720.0	42.8	-	31.9	5.8	31.2	-	49.4	-	110.8	-	61.4	-	
Vert.	5725.0	42.9	-	31.9	5.8	31.2	-	49.5	-	122.2	-	72.7	-	

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 - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [106-tone RU/Index 53] 5745 MHz



* 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.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [242-tone RU/Index 61] 5745 MHz

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	42.2	-	31.8	5.8	31.2	-	48.6	-	68.2	-	19.6	-	
Hori.	5700.0	42.6	-	31.8	5.8	31.2	-	49.1	-	105.2	-	56.1	-	
Hori.	5720.0	42.8	-	31.9	5.8	31.2	-	49.4	-	110.8	-	61.4	-	
Hori.	5725.0	43.6	-	31.9	5.8	31.2	-	50.2	-	122.2	-	72.0	-	
Vert.	5650.0	42.3	-	31.8	5.8	31.2	-	48.7	-	68.2	-	19.5	-	
Vert.	5700.0	42.5	-	31.8	5.8	31.2	-	49.1	-	105.2	-	56.2	-	
Vert.	5720.0	42.9	-	31.9	5.8	31.2	-	49.5	-	110.8	-	61.4	-	
Vert.	5725.0	43.0	-	31.9	5.8	31.2	-	49.6	-	122.2	-	72.6	-	

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.

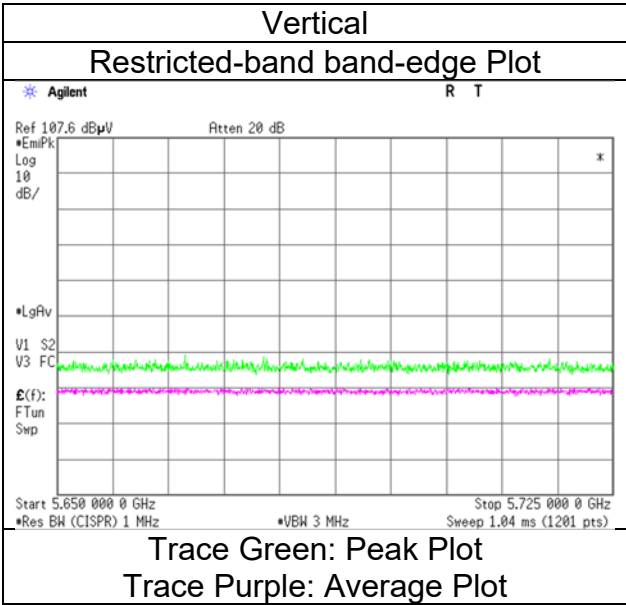
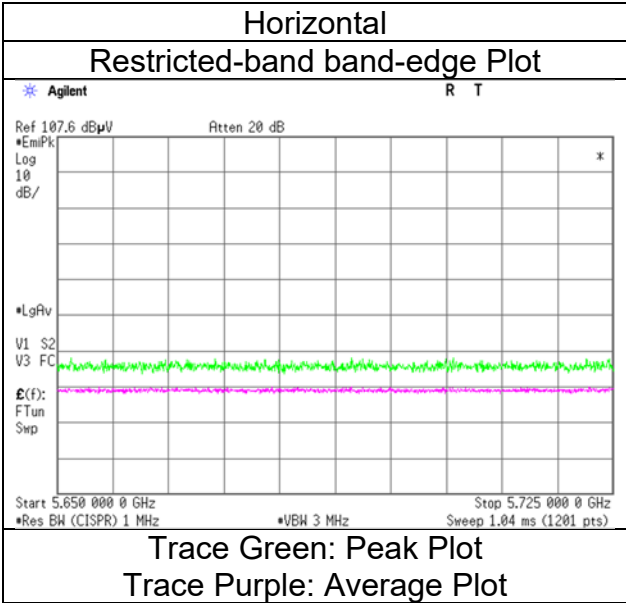
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [242-tone RU/Index 61] 5745 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 22 deg. C / 52 % RH
Engineer Shousei Hamaguchi
 (1 GHz to 6 GHz)
Mode Tx 11ax-20 [26-tone RU/Index 8] 5825 MHz

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	42.6	-	32.2	5.9	31.2	-	49.5	-	122.2	-	72.7	-	
Hori.	5855.0	42.3	-	32.3	5.9	31.2	-	49.3	-	110.8	-	61.6	-	
Hori.	5875.0	41.9	-	32.3	5.9	31.2	-	48.9	-	105.2	-	56.3	-	
Hori.	5925.0	41.9	-	32.4	5.9	31.2	-	49.0	-	68.2	-	19.3	-	
Vert.	5850.0	42.5	-	32.2	5.9	31.2	-	49.5	-	122.2	-	72.7	-	
Vert.	5855.0	42.4	-	32.3	5.9	31.2	-	49.4	-	110.8	-	61.4	-	
Vert.	5875.0	42.1	-	32.3	5.9	31.2	-	49.1	-	105.2	-	56.1	-	
Vert.	5925.0	42.1	-	32.4	5.9	31.2	-	49.2	-	68.2	-	19.0	-	

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.

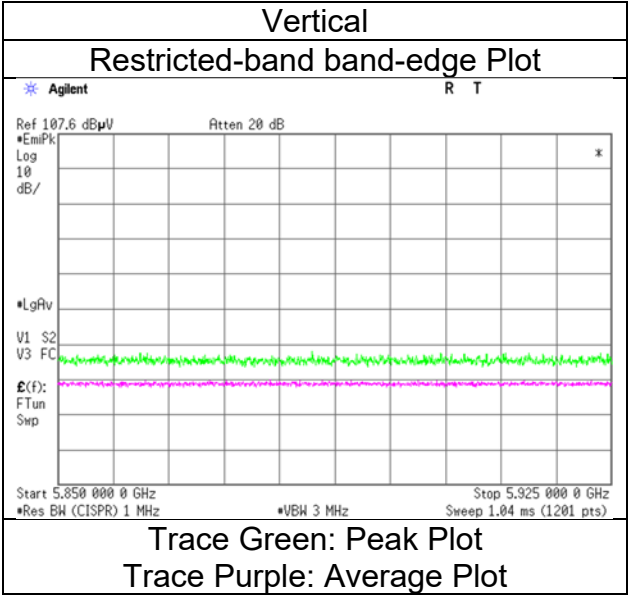
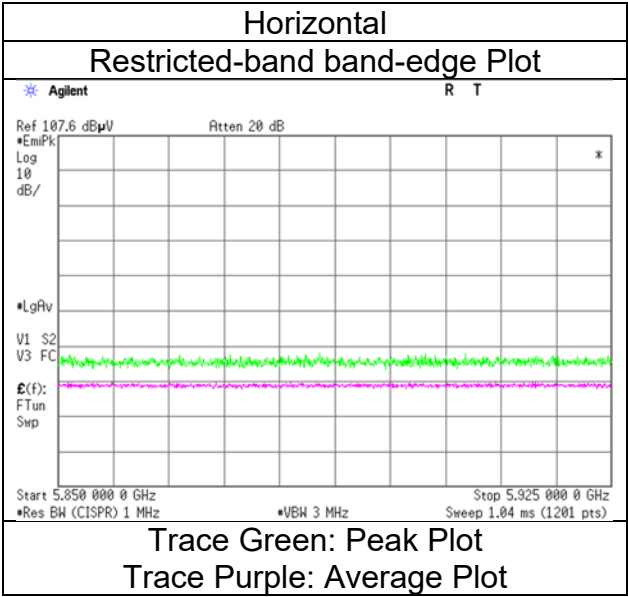
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [26-tone RU/Index 8] 5825 MHz



* 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 23 deg. C / 51 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tomoya Sone Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3 No.3
Date October 28, 2024 October 28, 2024 November 17, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH 23 deg. C / 62 % RH
Engineer Tomoya Sone Tetsuro Yoshida Hiroki Numata
 (18 GHz to 26.5 GHz) (Above 26.5 GHz) (Below 1 GHz)

Mode Tx 11ax-20 [52-tone RU/Index 40] 5825 MHz

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.	42.7	27.6	-	13.8	7.2	32.2	-	16.4	-	40.0	-	23.6	-	
Hori.	52.5	31.4	-	10.3	7.3	32.2	-	16.9	-	40.0	-	23.1	-	
Hori.	67.0	28.5	-	6.7	7.5	32.2	-	10.5	-	40.0	-	29.5	-	
Hori.	265.7	32.7	-	12.6	9.4	32.0	-	22.7	-	46.0	-	23.3	-	
Hori.	298.4	30.4	-	13.6	9.7	32.0	-	21.7	-	46.0	-	24.3	-	
Hori.	320.3	27.2	-	14.1	9.8	32.0	-	19.1	-	46.0	-	26.9	-	
Hori.	5000.0	40.0	32.4	31.7	5.6	31.1	-	46.1	38.6	73.9	53.9	27.8	15.3	
Hori.	5850.0	40.8	-	32.2	5.9	31.2	-	47.7	-	122.2	-	74.5	-	
Hori.	5855.0	40.5	-	32.2	5.9	31.2	-	47.5	-	110.8	-	63.3	-	
Hori.	5875.0	40.6	-	32.2	5.9	31.2	-	47.6	-	105.2	-	57.7	-	
Hori.	5925.0	40.6	-	32.3	5.9	31.2	-	47.6	-	68.2	-	20.6	-	
Hori.	11650.0	42.5	34.1	37.6	-1.6	32.7	-	45.7	37.3	73.9	53.9	28.2	16.6	
Hori.	17475.0	42.8	-	39.9	0.1	31.9	-	50.9	-	68.2	-	17.3	-	
Vert.	36.9	33.1	-	16.0	7.1	32.2	-	24.0	-	40.0	-	16.1	-	
Vert.	49.6	32.3	-	11.3	7.3	32.2	-	18.7	-	40.0	-	21.3	-	
Vert.	59.6	27.7	-	8.1	7.4	32.2	-	11.0	-	40.0	-	29.0	-	
Vert.	227.9	30.7	-	11.4	9.1	32.0	-	19.2	-	46.0	-	26.8	-	
Vert.	309.4	26.6	-	13.7	9.8	32.0	-	18.1	-	46.0	-	27.9	-	
Vert.	480.8	28.4	-	17.2	10.9	32.0	-	24.4	-	46.0	-	21.6	-	
Vert.	5000.0	41.5	38.4	31.7	5.6	31.1	-	47.7	44.5	73.9	53.9	26.2	9.4	
Vert.	5850.0	41.3	-	32.2	5.9	31.2	-	48.3	-	122.2	-	73.9	-	
Vert.	5855.0	40.5	-	32.2	5.9	31.2	-	47.4	-	110.8	-	63.4	-	
Vert.	5875.0	40.8	-	32.2	5.9	31.2	-	47.8	-	105.2	-	57.4	-	
Vert.	5925.0	41.4	-	32.3	5.9	31.2	-	48.4	-	68.2	-	19.8	-	
Vert.	11650.0	42.2	33.9	37.6	-1.6	32.7	-	45.3	37.1	73.9	53.9	28.6	16.8	
Vert.	17475.0	42.4	-	39.9	0.1	31.9	-	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.

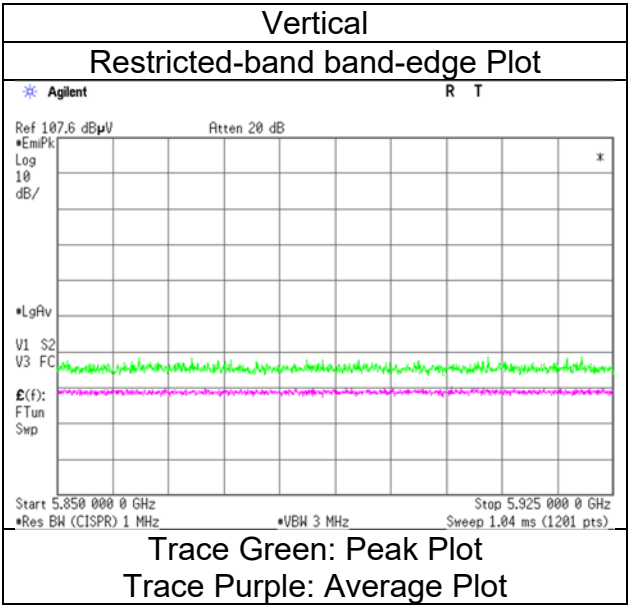
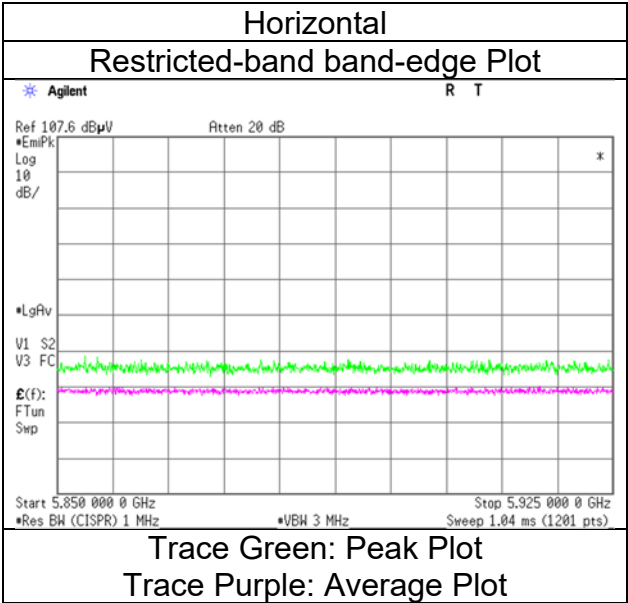
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
23 deg. C / 51 % RH
Tomoya Sone
(1 GHz to 6 GHz)
Tx 11ax-20 [52-tone RU/Index 40] 5825 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-20 [106-tone RU/Index 54] 5825 MHz

Polarity	Frequency	Reading (QP / PK)	Reading	Ant.	Loss	Gain	Duty	Result	Result	Limit	Limit	Margin	Margin	Remark
[Hori/Vert]	[MHz]	[dBuV / PK]	(AV)	Factor	[dB]	[dB]	Factor	(QP / PK)	(AV)	(QP / PK)	(AV)	(QP / PK)	(AV)	
		[dBuV]	[dBuV]	[dB/m]			[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5850.0	42.4	-	32.2	5.9	31.2	-	49.4	-	122.2	-	72.8	-	
Hori.	5855.0	42.3	-	32.3	5.9	31.2	-	49.2	-	110.8	-	61.6	-	
Hori.	5875.0	42.1	-	32.3	5.9	31.2	-	49.1	-	105.2	-	56.1	-	
Hori.	5925.0	41.9	-	32.4	5.9	31.2	-	49.0	-	68.2	-	19.2	-	
Vert.	5850.0	42.7	-	32.2	5.9	31.2	-	49.6	-	122.2	-	72.6	-	
Vert.	5855.0	42.5	-	32.3	5.9	31.2	-	49.5	-	110.8	-	61.4	-	
Vert.	5875.0	42.0	-	32.3	5.9	31.2	-	49.0	-	105.2	-	56.2	-	
Vert.	5925.0	41.8	-	32.4	5.9	31.2	-	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

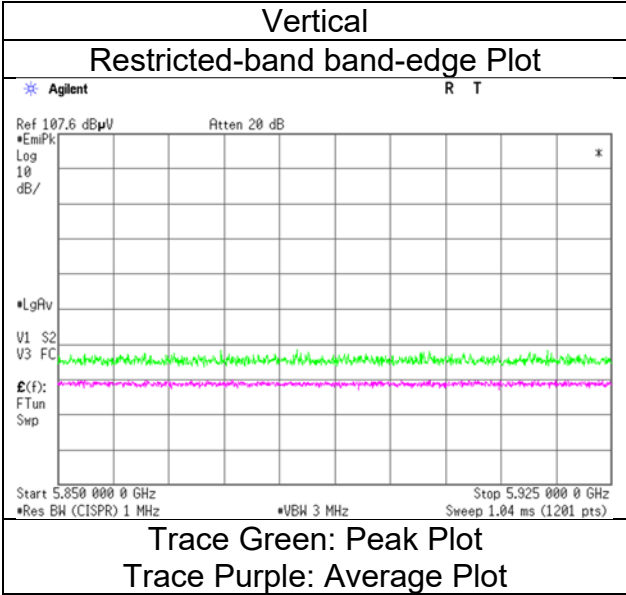
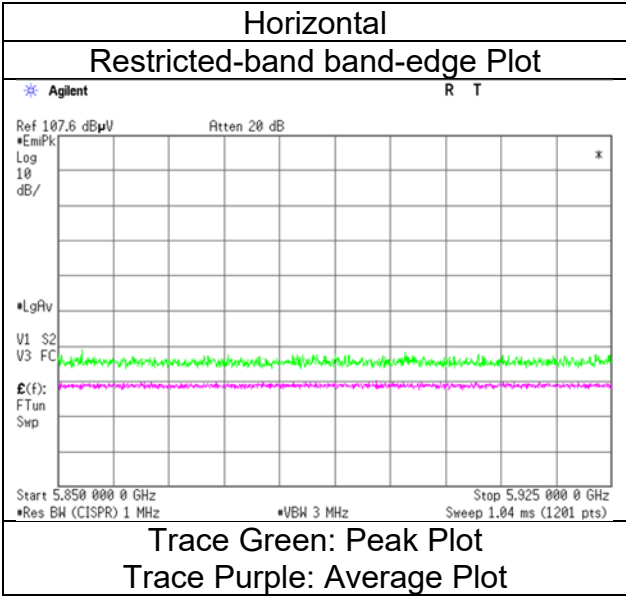
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log (3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-20 [106-tone RU/Index 54] 5825 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-20 [242-tone RU/Index 61] 5825 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5850.0	43.1	-	32.2	5.9	31.2	-	50.1	-	122.2	-	72.1	-	
Hori.	5855.0	42.2	-	32.3	5.9	31.2	-	49.2	-	110.8	-	61.6	-	
Hori.	5875.0	42.1	-	32.3	5.9	31.2	-	49.1	-	105.2	-	56.1	-	
Hori.	5925.0	42.0	-	32.4	5.9	31.2	-	49.1	-	68.2	-	19.1	-	
Vert.	5850.0	42.5	-	32.2	5.9	31.2	-	49.5	-	122.2	-	72.7	-	
Vert.	5855.0	42.1	-	32.3	5.9	31.2	-	49.1	-	110.8	-	61.7	-	
Vert.	5875.0	41.9	-	32.3	5.9	31.2	-	48.9	-	105.2	-	56.3	-	
Vert.	5925.0	41.9	-	32.4	5.9	31.2	-	49.0	-	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 1 GHz.

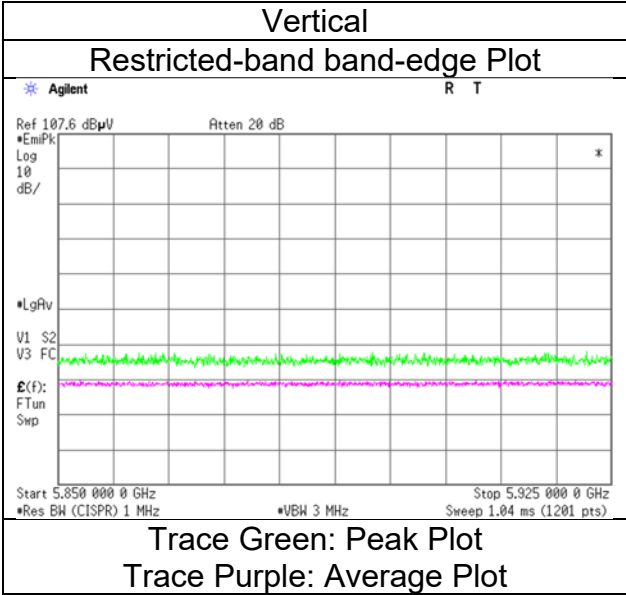
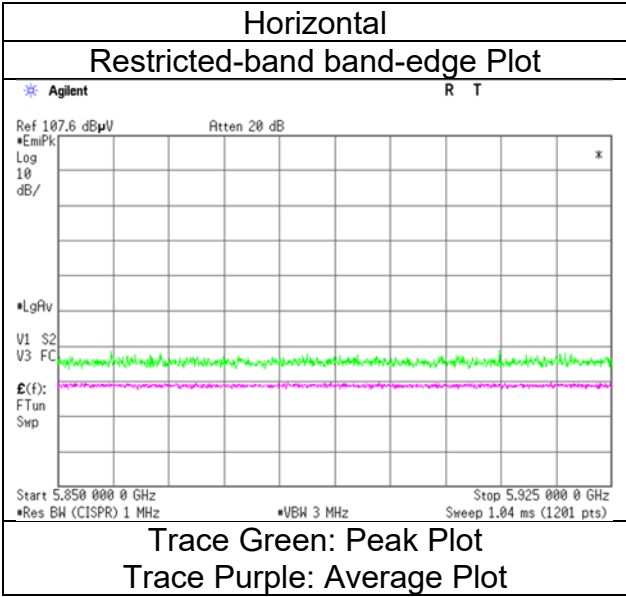
Distance factor: 1 GHz - 6 GHz $20\log (3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-20 [242-tone RU/Index 61] 5825 MHz



* 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.3	No.3	No.3
Date	October 31, 2024	October 29, 2024	October 29, 2024
Temperature / Humidity	21 deg. C / 62 % RH	23 deg. C / 66 % RH	22 deg. C / 59 % RH
Engineer	Tetsuro Yoshida (1 GHz to 6 GHz)	Tomoya Sone (6 GHz to 10 GHz)	Tetsuro Yoshida (10 GHz to 18 GHz)
Semi Anechoic Chamber	No.3	No.3	
Date	October 28, 2024	October 28, 2024	
Temperature / Humidity	23 deg. C / 56 % RH	23 deg. C / 65 % RH	
Engineer	Tomoya Sone (18 GHz to 26.5 GHz)	Tetsuro Yoshida (Above 26.5 GHz)	
Mode	Tx 11ax-40 [OFDM] 5190 MHz		

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.	5000.0	40.2	30.2	31.7	5.6	31.1	-	46.3	36.4	73.9	53.9	27.6	17.5	
Hori.	5150.0	41.0	29.9	31.8	5.6	31.1	-	47.4	36.2	73.9	53.9	26.6	17.7	
Hori.	5760.0	42.0	-	32.0	5.9	31.2	-	48.7	-	68.2	-	19.5	-	
Hori.	10380.0	41.9	-	35.9	-2.1	32.9	-	42.8	-	68.2	-	25.4	-	Floor noise
Hori.	15570.0	42.5	35.6	39.3	-0.1	32.0	-	49.7	42.8	73.9	53.9	24.2	11.1	Floor noise
Vert.	5000.0	42.8	38.7	31.7	5.6	31.1	-	48.9	44.8	73.9	53.9	25.0	9.1	
Vert.	5150.0	40.5	31.8	31.8	5.6	31.1	-	46.8	38.1	73.9	53.9	27.1	15.8	
Vert.	5760.0	41.0	-	32.0	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	10380.0	42.1	-	35.9	-2.1	32.9	-	43.0	-	68.2	-	25.2	-	Floor noise
Vert.	15570.0	42.7	35.7	39.3	-0.1	32.0	-	49.9	42.9	73.9	53.9	24.0	11.0	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.

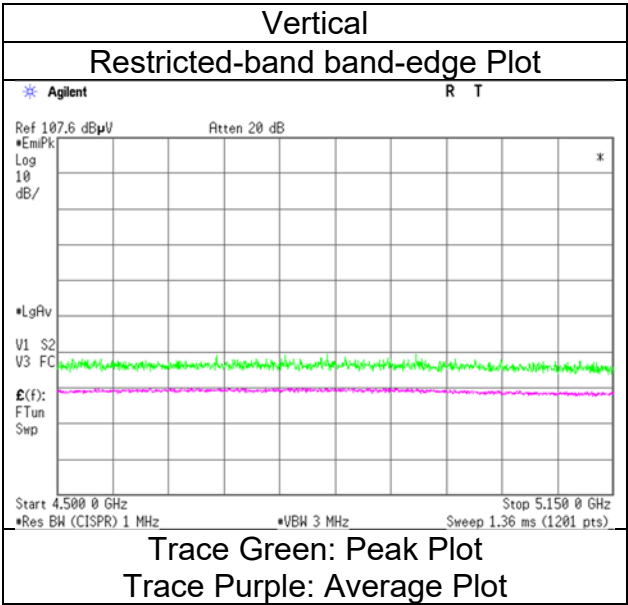
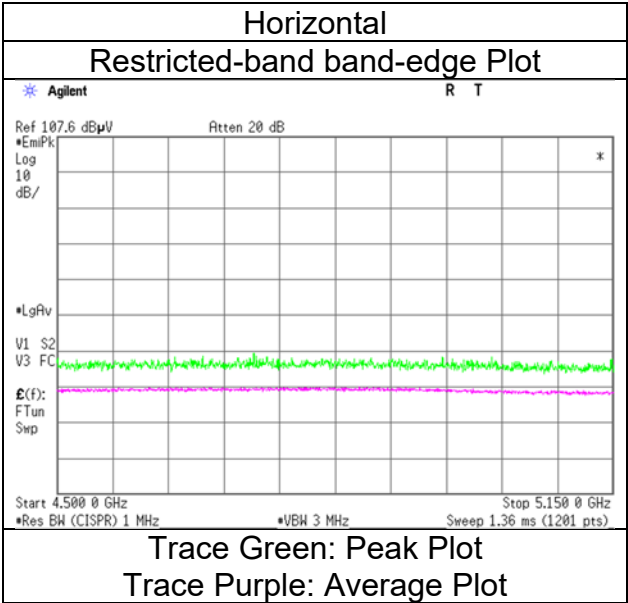
Distance factor:	1 GHz - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
21 deg. C / 62 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-40 [OFDM] 5190 MHz



* 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.3	No.3	No.3
Date	October 31, 2024	October 29, 2024	October 29, 2024
Temperature / Humidity	21 deg. C / 62 % RH	23 deg. C / 66 % RH	22 deg. C / 59 % RH
Engineer	Tetsuro Yoshida (1 GHz to 6 GHz)	Tomoya Sone (6 GHz to 10 GHz)	Tetsuro Yoshida (10 GHz to 18 GHz)
Semi Anechoic Chamber	No.3	No.3	
Date	October 28, 2024	October 28, 2024	
Temperature / Humidity	23 deg. C / 56 % RH	23 deg. C / 65 % RH	
Engineer	Tomoya Sone (18 GHz to 26.5 GHz)	Tetsuro Yoshida (Above 26.5 GHz)	
Mode	Tx 11ax-40 [OFDM] 5230 MHz		

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.	5000.0	40.5	32.7	31.7	5.6	31.1	-	46.7	38.8	73.9	53.9	27.3	15.1	
Hori.	5350.0	40.8	30.3	31.6	5.7	31.1	-	46.9	36.4	73.9	53.9	27.0	17.5	
Hori.	5760.0	41.7	-	32.0	5.9	31.2	-	48.3	-	68.2	-	19.9	-	
Hori.	10460.0	42.7	-	35.9	-2.1	32.9	-	43.6	-	68.2	-	24.6	-	Floor noise
Hori.	15690.0	43.7	35.7	39.5	-0.1	32.0	-	51.1	43.0	73.9	53.9	22.8	10.9	Floor noise
Vert.	5000.0	41.7	36.7	31.7	5.6	31.1	-	47.8	42.8	73.9	53.9	26.1	11.1	
Vert.	5350.0	40.6	32.5	31.6	5.7	31.1	-	46.7	38.6	73.9	53.9	27.2	15.3	
Vert.	5760.0	42.9	-	32.0	5.9	31.2	-	49.6	-	68.2	-	18.6	-	
Vert.	10460.0	42.1	-	35.9	-2.1	32.9	-	43.1	-	68.2	-	25.1	-	Floor noise
Vert.	15690.0	43.7	35.7	39.5	-0.1	32.0	-	51.1	43.1	73.9	53.9	22.9	10.9	Floor noise

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

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

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

*QP detector was used up to 1GHz.

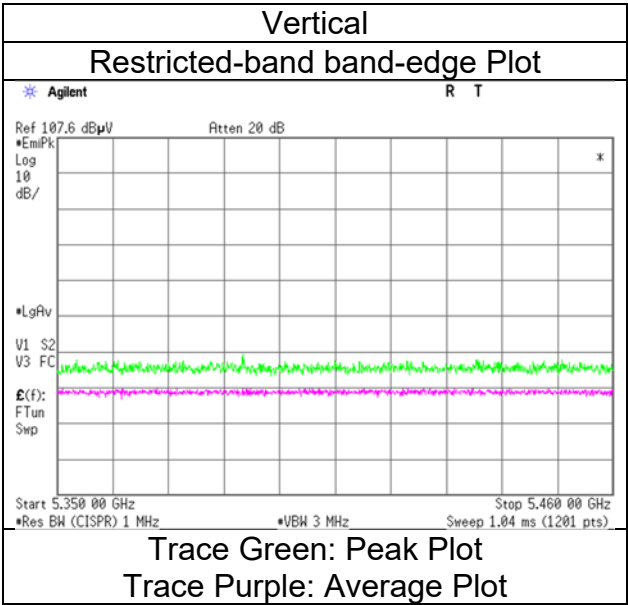
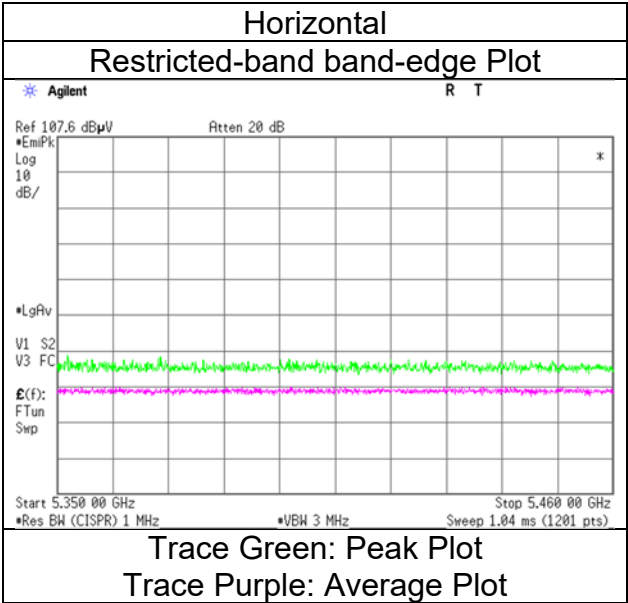
Distance factor:	1 GHz - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.4
October 31, 2024
21 deg. C / 62 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-40 [OFDM] 5230 MHz



* 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

Ise EMC Lab.
No.3
October 31, 2024
23 deg. C / 51 % RH
Tomoya Sone
(1 GHz to 6 GHz)

No.3
October 29, 2024
23 deg. C / 66 % RH
Tomoya Sone
(6 GHz to 10 GHz)

No.3
October 29, 2024
22 deg. C / 59 % RH
Tetsuro Yoshida
(10 GHz to 18 GHz)

Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

No.3
October 28, 2024
23 deg. C / 56 % RH
Tomoya Sone
(18 GHz to 26.5 GHz)
Tx 11ax-40 [OFDM] 5755 MHz

No.3
October 28, 2024
23 deg. C / 65 % RH
Tetsuro Yoshida
(Above 26.5 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.	5000.1	40.2	32.6	31.7	5.6	31.1	-	46.3	38.8	73.9	53.9	27.6	15.1	
Hori.	5650.0	40.8	-	31.7	5.8	31.2	-	47.2	-	68.2	-	21.0	-	
Hori.	5700.0	40.9	-	31.8	5.8	31.2	-	47.4	-	105.2	-	57.8	-	
Hori.	5720.0	40.6	-	31.9	5.8	31.2	-	47.2	-	110.8	-	63.6	-	
Hori.	5725.0	48.2	-	31.9	5.8	31.2	-	54.7	-	122.2	-	67.5	-	
Hori.	11510.0	42.7	34.4	37.5	-1.7	32.8	-	45.7	37.4	73.9	53.9	28.2	16.5	Floor noise
Hori.	17265.0	43.8	-	39.7	0.1	31.9	-	51.8	-	68.2	-	16.4	-	Floor noise
Vert.	5000.1	41.7	38.6	31.7	5.6	31.1	-	47.9	44.7	73.9	53.9	26.0	9.2	
Vert.	5650.0	40.9	-	31.7	5.8	31.2	-	47.3	-	68.2	-	20.9	-	
Vert.	5700.0	40.5	-	31.8	5.8	31.2	-	47.0	-	105.2	-	58.2	-	
Vert.	5720.0	40.6	-	31.9	5.8	31.2	-	47.2	-	110.8	-	63.7	-	
Vert.	5725.0	44.4	-	31.9	5.8	31.2	-	51.0	-	122.2	-	71.2	-	
Vert.	11510.0	42.3	34.4	37.5	-1.7	32.8	-	45.3	37.4	73.9	53.9	28.6	16.5	Floor noise
Vert.	17265.0	43.5	-	39.7	0.1	31.9	-	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.

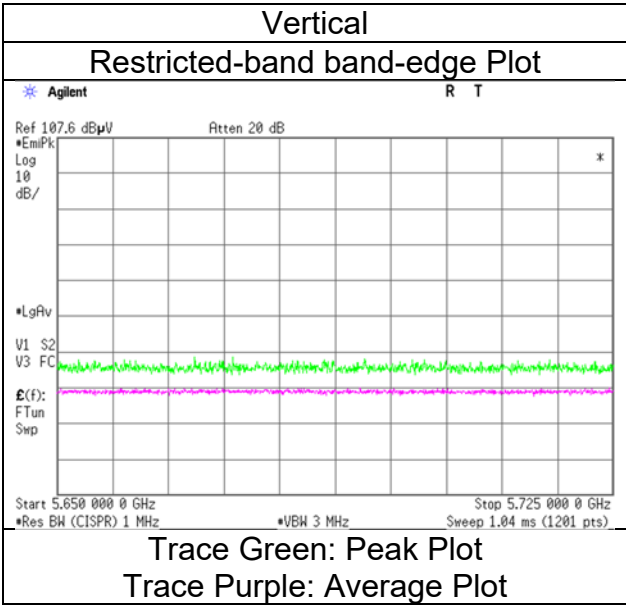
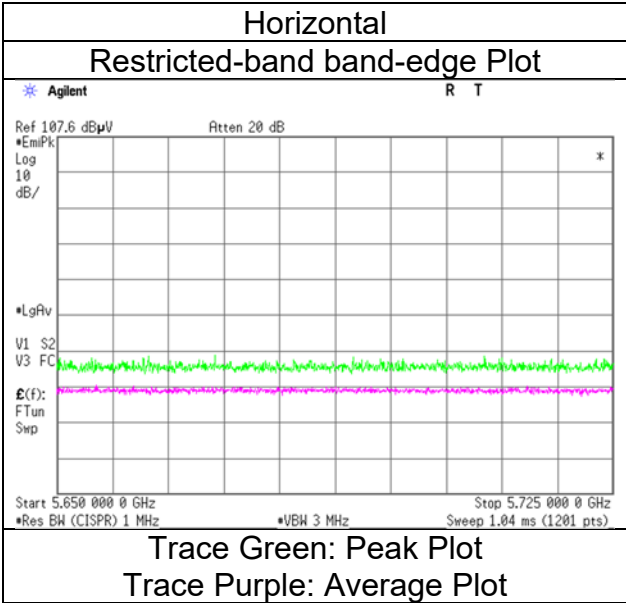
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
23 deg. C / 51 % RH
Tomoya Sone
(1 GHz to 6 GHz)
Tx 11ax-40 [OFDM] 5755 MHz



* 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

Ise EMC Lab.
No.3
October 31, 2024
23 deg. C / 51 % RH
Tomoya Sone
(1 GHz to 6 GHz)

No.3
October 29, 2024
23 deg. C / 66 % RH
Tomoya Sone
(6 GHz to 10 GHz)

No.3
October 29, 2024
22 deg. C / 59 % RH
Tetsuro Yoshida
(10 GHz to 18 GHz)

Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

No.3
October 28, 2024
23 deg. C / 56 % RH
Tomoya Sone
(18 GHz to 26.5 GHz)
Tx 11ax-40 [OFDM] 5795 MHz

No.3
October 28, 2024
23 deg. C / 65 % RH
Tetsuro Yoshida
(Above 26.5 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.	5000.0	40.1	32.5	31.7	5.6	31.1	-	46.2	38.7	73.9	53.9	27.7	15.2	
Hori.	5850.0	40.7	-	32.2	5.9	31.2	-	47.6	-	122.2	-	74.6	-	
Hori.	5855.0	40.1	-	32.2	5.9	31.2	-	47.1	-	110.8	-	63.7	-	
Hori.	5875.0	40.8	-	32.2	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Hori.	5925.0	40.5	-	32.3	5.9	31.2	-	47.5	-	68.2	-	20.7	-	
Hori.	11590.0	42.5	34.1	37.5	-1.7	32.8	-	45.6	37.2	73.9	53.9	28.3	16.7	Floor noise
Hori.	17385.0	43.0	-	39.8	0.1	31.9	-	51.1	-	68.2	-	17.1	-	Floor noise
Vert.	5000.0	41.6	38.5	31.7	5.6	31.1	-	47.8	44.6	73.9	53.9	26.1	9.3	
Vert.	5850.0	40.7	-	32.2	5.9	31.2	-	47.7	-	122.2	-	74.5	-	
Vert.	5855.0	40.3	-	32.2	5.9	31.2	-	47.2	-	110.8	-	63.6	-	
Vert.	5875.0	40.5	-	32.2	5.9	31.2	-	47.5	-	105.2	-	57.7	-	
Vert.	5925.0	41.2	-	32.3	5.9	31.2	-	48.2	-	68.2	-	20.0	-	
Vert.	11590.0	41.9	34.1	37.5	-1.7	32.8	-	45.0	37.2	73.9	53.9	28.9	16.7	Floor noise
Vert.	17385.0	43.3	-	39.8	0.1	31.9	-	51.3	-	68.2	-	16.9	-	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

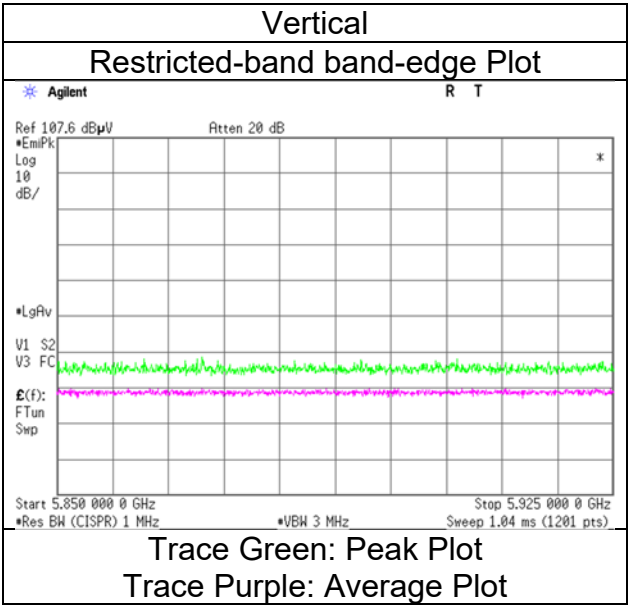
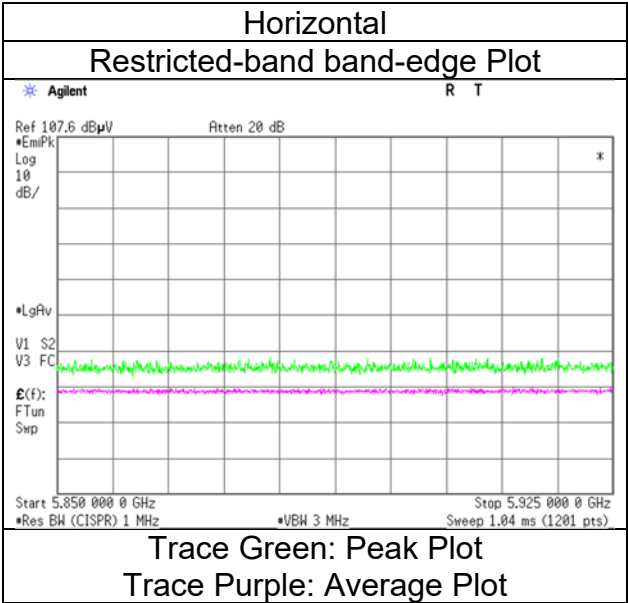
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
October 31, 2024
23 deg. C / 51 % RH
Tomoya Sone
(1 GHz to 6 GHz)
Tx 11ax-40 [OFDM] 5795 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [26-tone RU/Index 0] 5190 MHz

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	30.2	31.7	5.6	31.1	-	48.7	36.4	73.9	53.9	25.2	17.5	
Vert.	5150.0	42.4	32.1	31.7	5.6	31.1	-	48.5	38.3	73.9	53.9	25.4	15.7	

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.

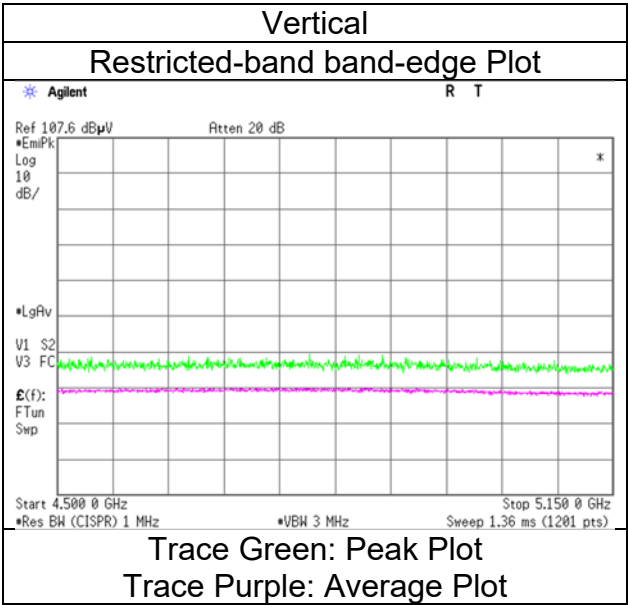
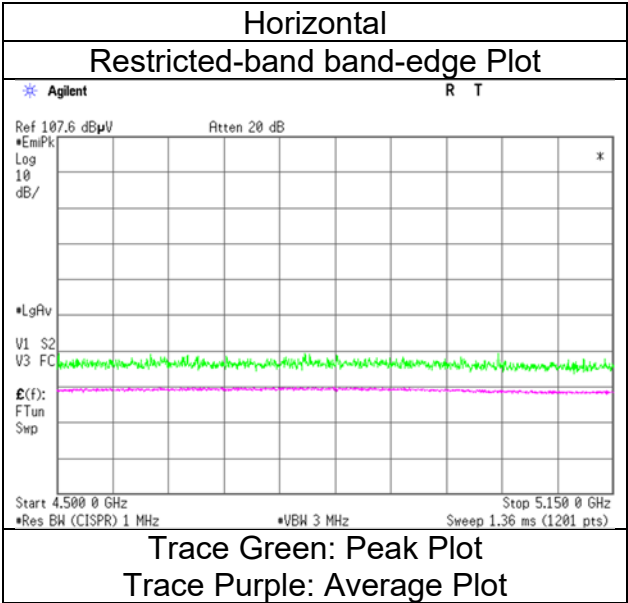
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [26-tone RU/Index 0] 5190 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [52-tone RU/Index 37] 5190 MHz

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	42.4	30.2	31.7	5.6	31.1	-	48.6	36.4	73.9	53.9	25.3	17.5	
Vert.	5150.0	42.2	32.1	31.7	5.6	31.1	-	48.4	38.3	73.9	53.9	25.5	15.7	

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

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

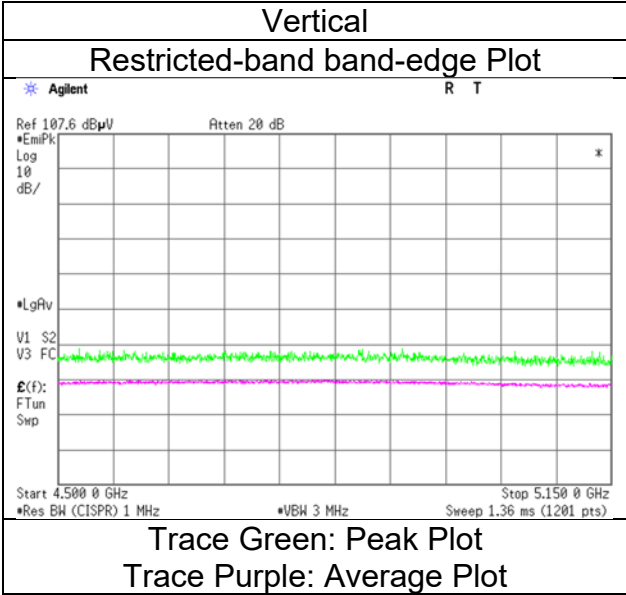
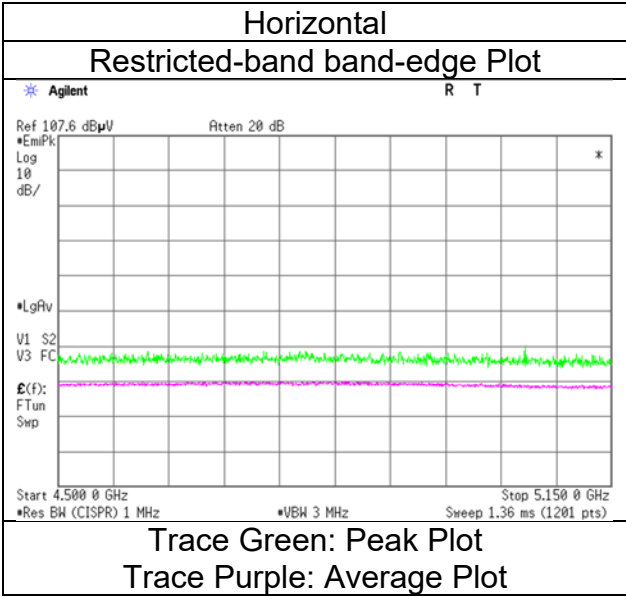
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [52-tone RU/Index 37] 5190 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [106-tone RU/Index 53] 5190 MHz

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	42.3	30.3	31.7	5.6	31.1	-	48.5	36.5	73.9	53.9	25.4	17.4	
Vert.	5150.0	42.2	32.3	31.7	5.6	31.1	-	48.4	38.5	73.9	53.9	25.5	15.4	

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.

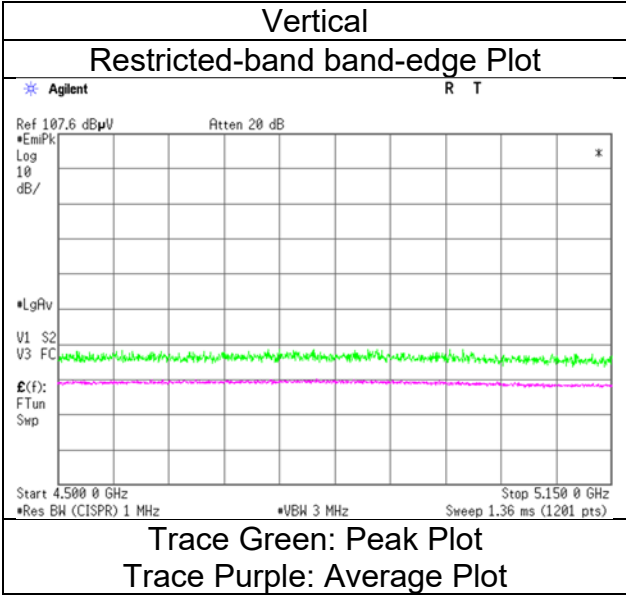
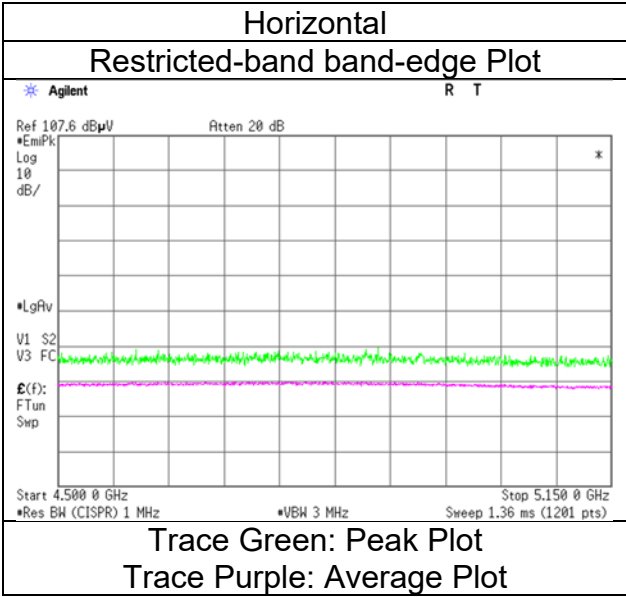
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [106-tone RU/Index 53] 5190 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [242-tone RU/Index 61] 5190 MHz

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	42.4	30.5	31.7	5.6	31.1	-	48.6	36.6	73.9	53.9	25.3	17.3	
Vert.	5150.0	42.2	32.2	31.7	5.6	31.1	-	48.3	38.4	73.9	53.9	25.6	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.

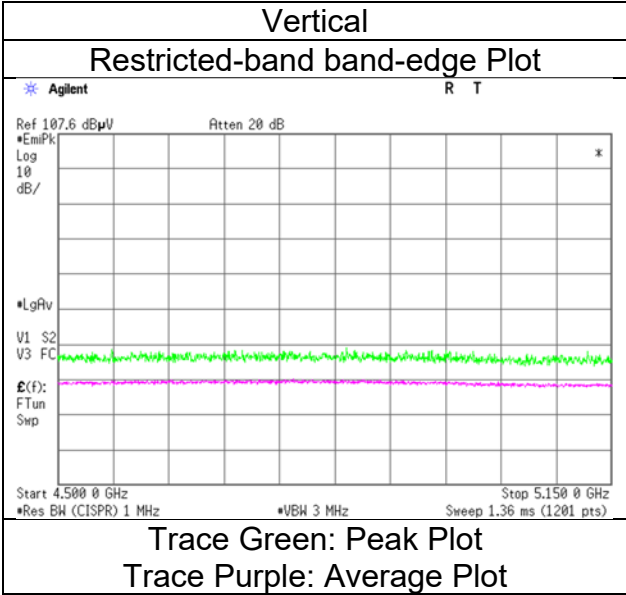
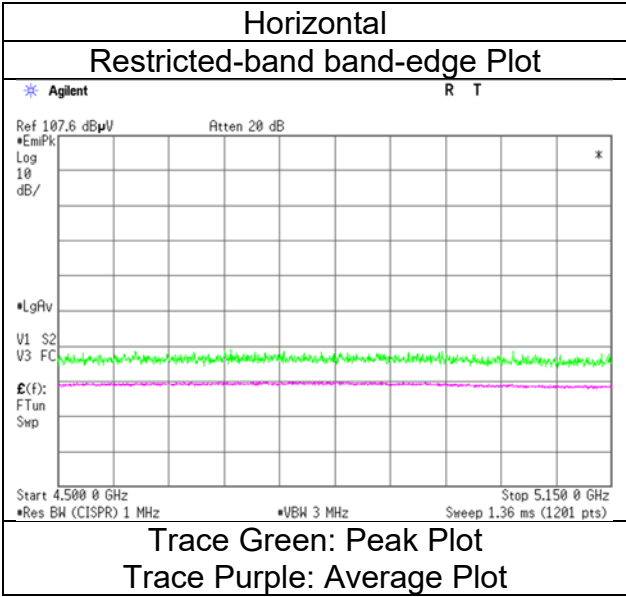
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [242-tone RU/Index 61] 5190 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5190 MHz

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	42.0	30.4	31.7	5.6	31.1	-	48.2	36.6	73.9	53.9	25.7	17.3	
Vert.	5150.0	41.6	32.3	31.7	5.6	31.1	-	47.7	38.5	73.9	53.9	26.2	15.4	

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

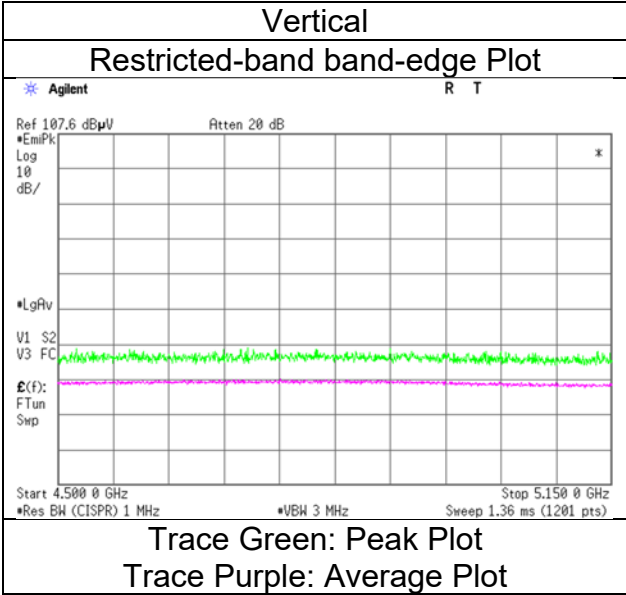
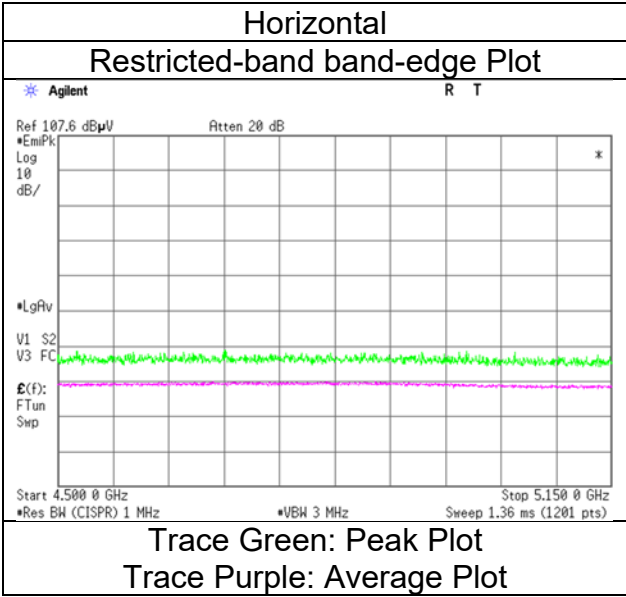
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5190 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [26-tone RU/Index 17] 5230 MHz

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	42.0	30.3	31.5	5.7	31.1	-	48.0	36.4	73.9	53.9	25.9	17.6	
Vert.	5350.0	42.3	32.4	31.5	5.7	31.1	-	48.3	38.4	73.9	53.9	25.6	15.5	

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

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

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

*QP detector was used up to 1 GHz.

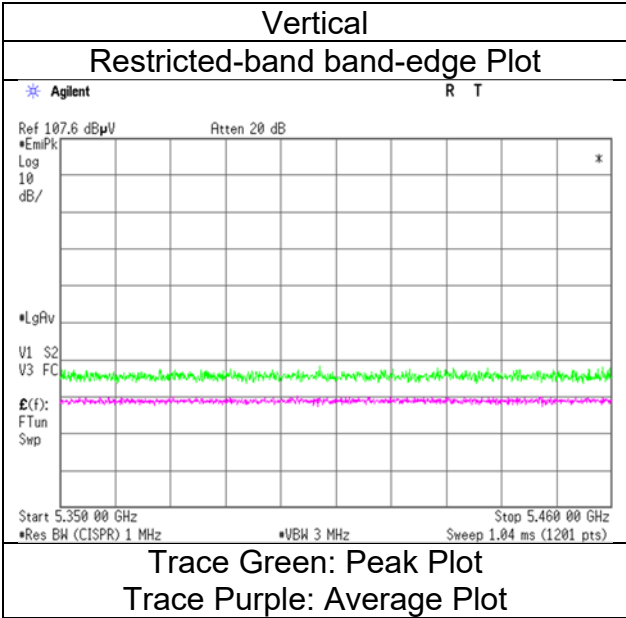
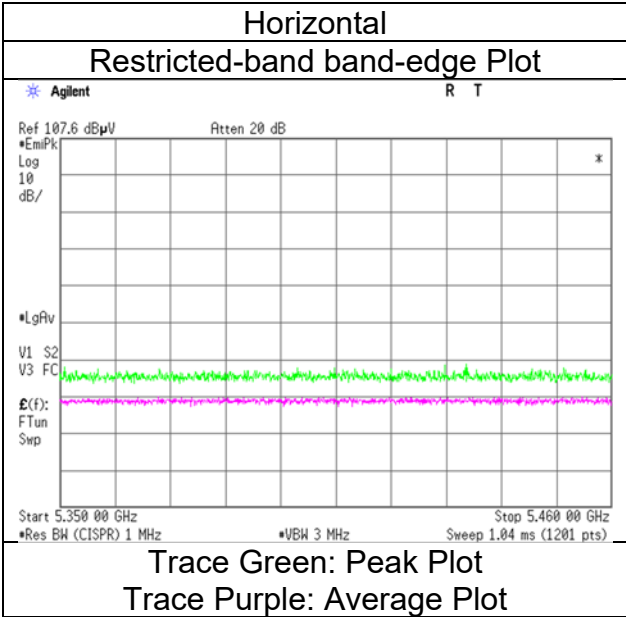
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [26-tone RU/Index 17] 5230 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [52-tone RU/Index 44] 5230 MHz

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	41.9	30.3	31.5	5.7	31.1	-	48.0	36.4	73.9	53.9	26.0	17.5	
Vert.	5350.0	42.3	32.4	31.5	5.7	31.1	-	48.3	38.4	73.9	53.9	25.6	15.5	

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

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

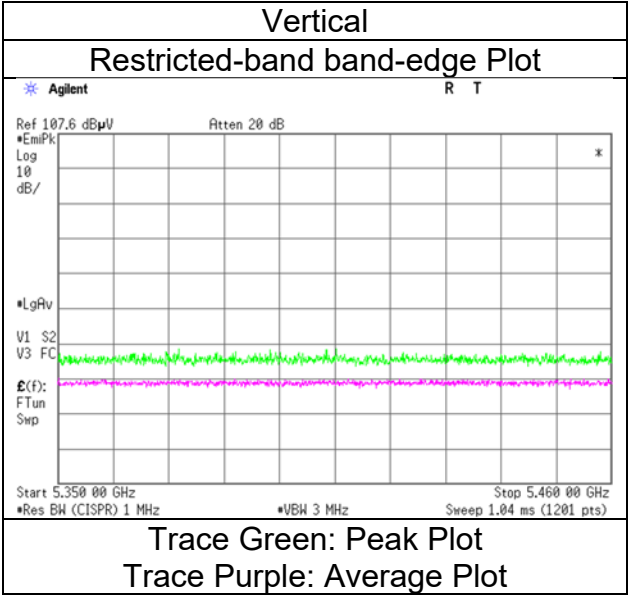
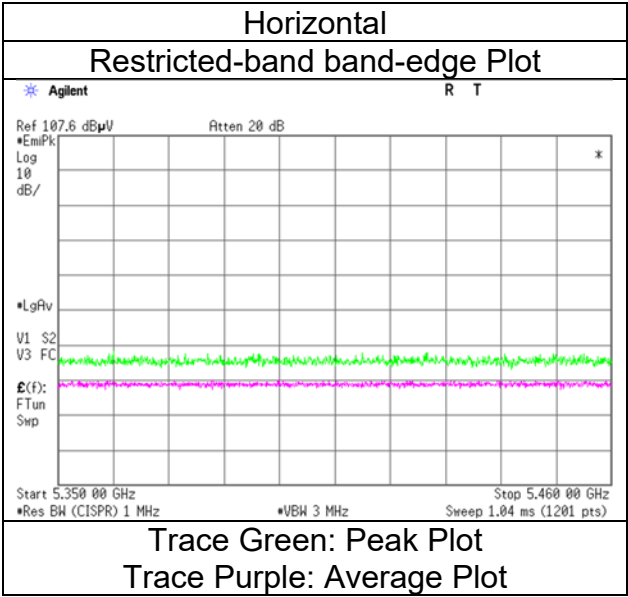
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [52-tone RU/Index 44] 5230 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [106-tone RU/Index 56] 5230 MHz

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	42.0	30.4	31.5	5.7	31.1	-	48.0	36.4	73.9	53.9	25.9	17.5	
Vert.	5350.0	42.4	32.3	31.5	5.7	31.1	-	48.5	38.4	73.9	53.9	25.4	15.5	

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

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

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

*QP detector was used up to 1 GHz.

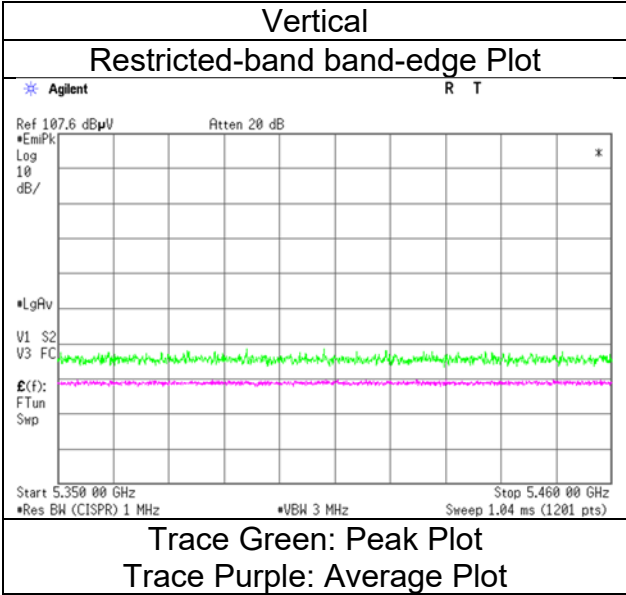
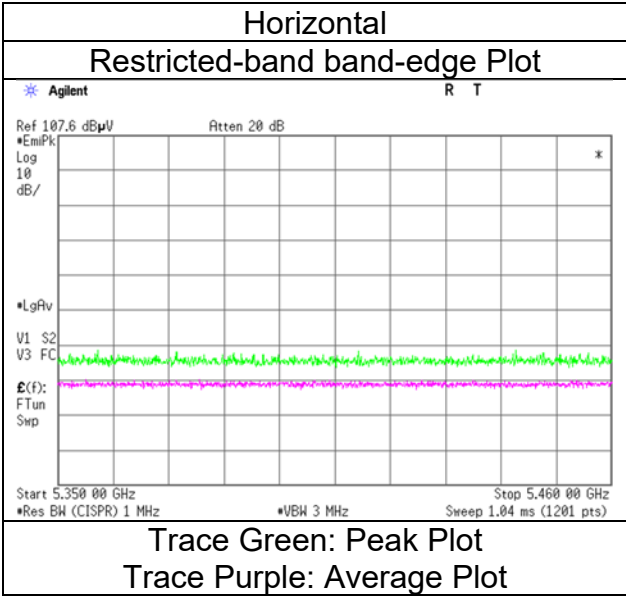
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [106-tone RU/Index 56] 5230 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 22 deg. C / 52 % RH
Engineer Shousei Hamaguchi
(1 GHz to 6 GHz)
Mode Tx 11ax-40 [242-tone RU/Index 62] 5230 MHz

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	41.9	30.4	31.5	5.7	31.1	-	48.0	36.5	73.9	53.9	25.9	17.4	
Vert.	5350.0	42.5	32.3	31.5	5.7	31.1	-	48.5	38.3	73.9	53.9	25.4	15.6	

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.

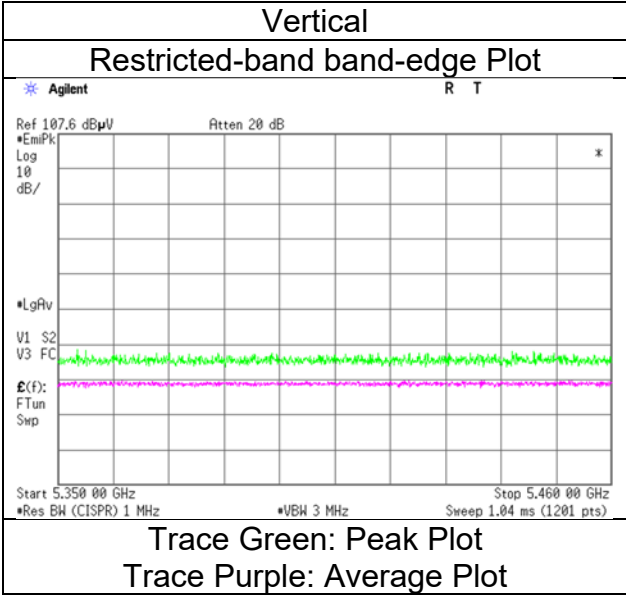
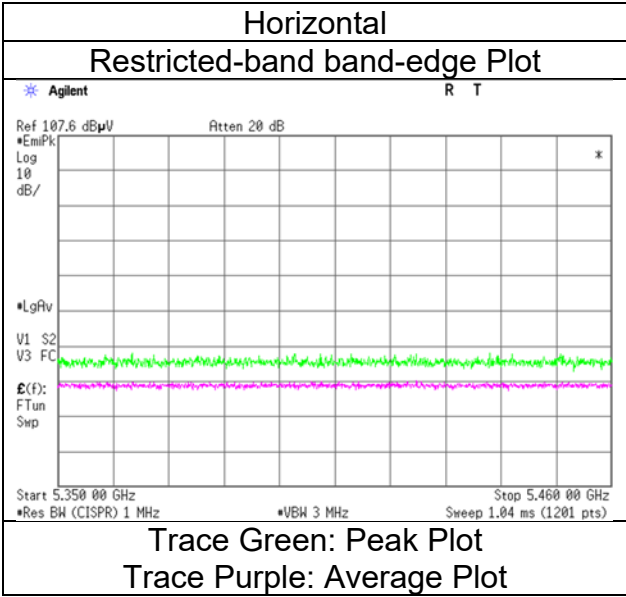
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [242-tone RU/Index 62] 5230 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	22 deg. C / 52 % RH
Engineer	Shousei Hamaguchi
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5230 MHz

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	41.9	30.4	31.5	5.7	31.1	-	47.9	36.5	73.9	53.9	26.0	17.4	
Vert.	5350.0	42.4	32.2	31.5	5.7	31.1	-	48.5	38.3	73.9	53.9	25.4	15.6	

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.

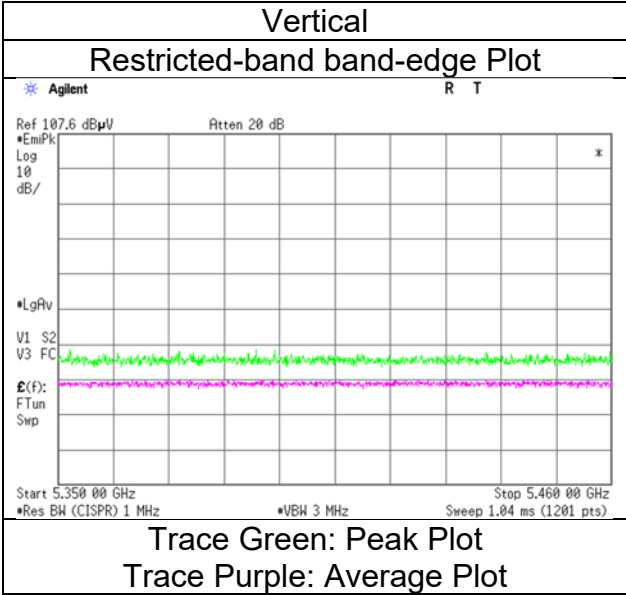
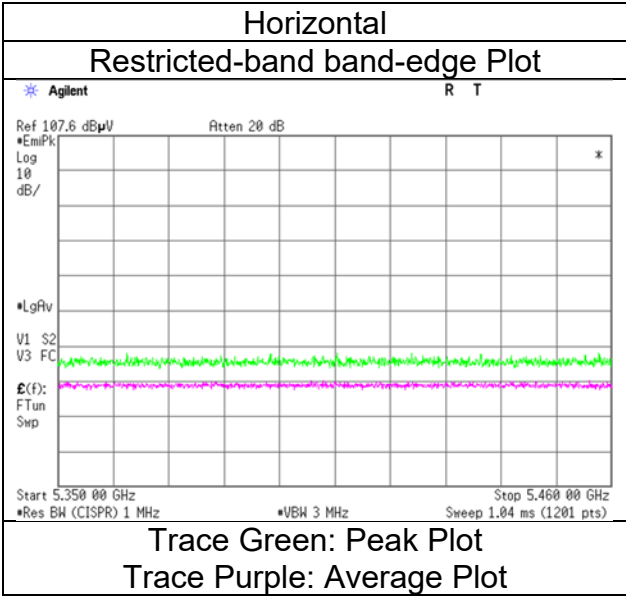
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
22 deg. C / 52 % RH
Shousei Hamaguchi
(1 GHz to 6 GHz)
Tx 11ax-40 [484-tone RU/Index 65] 5230 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [26-tone RU/Index 0] 5755 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	41.0	-	31.8	5.8	31.2	-	47.4	-	68.2	-	20.8	-	
Hori.	5700.0	41.3	-	31.8	5.8	31.2	-	47.8	-	105.2	-	57.4	-	
Hori.	5720.0	41.1	-	31.9	5.8	31.2	-	47.7	-	110.8	-	63.1	-	
Hori.	5725.0	53.4	-	31.9	5.8	31.2	-	60.0	-	122.2	-	62.2	-	
Vert.	5650.0	40.8	-	31.8	5.8	31.2	-	47.2	-	68.2	-	21.0	-	
Vert.	5700.0	41.1	-	31.8	5.8	31.2	-	47.6	-	105.2	-	57.6	-	
Vert.	5720.0	40.9	-	31.9	5.8	31.2	-	47.5	-	110.8	-	63.3	-	
Vert.	5725.0	50.6	-	31.9	5.8	31.2	-	57.2	-	122.2	-	65.1	-	

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

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

*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.

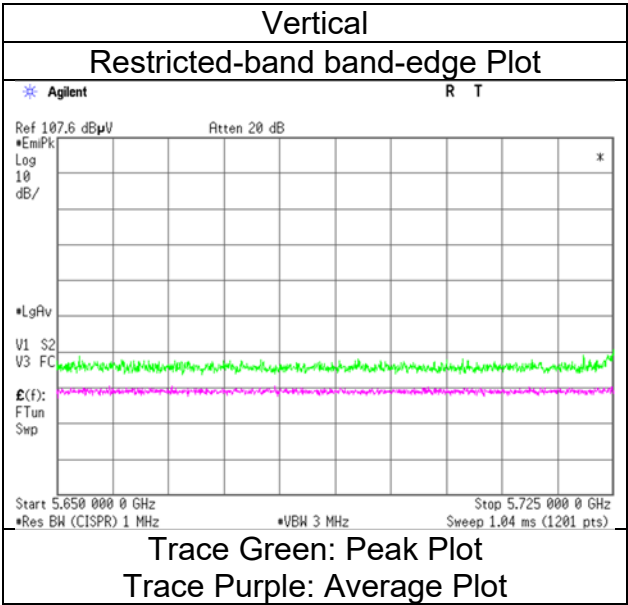
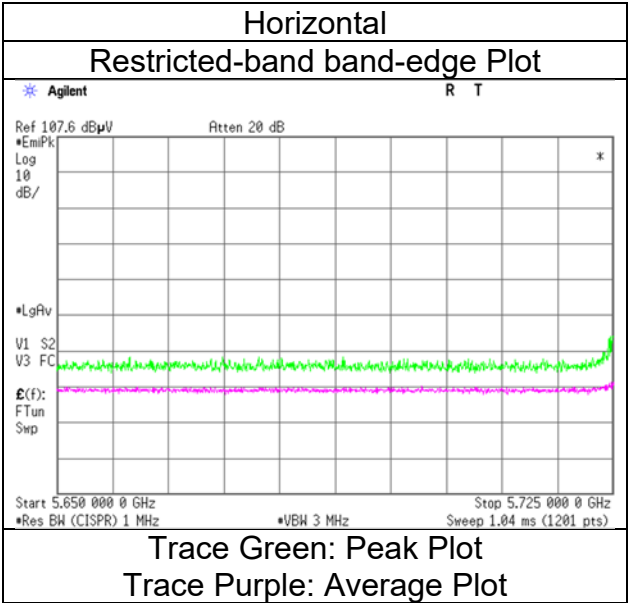
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [26-tone RU/Index 0] 5755 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [52-tone RU/Index 37] 5755 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dBm]	[dB]	[dB]	[dB]	[dBUv/m]	[dBUv/m]	[dBUv/m]	[dBUv/m]	[dB]	[dB]	
Hori.	5650.0	41.1	-	31.8	5.8	31.2	-	47.5	-	68.2	-	20.7	-	
Hori.	5700.0	41.2	-	31.8	5.8	31.2	-	47.7	-	105.2	-	57.5	-	
Hori.	5720.0	41.5	-	31.9	5.8	31.2	-	48.1	-	110.8	-	62.7	-	
Hori.	5725.0	53.3	-	31.9	5.8	31.2	-	59.9	-	122.2	-	62.3	-	
Vert.	5650.0	40.8	-	31.8	5.8	31.2	-	47.2	-	68.2	-	21.0	-	
Vert.	5700.0	41.1	-	31.8	5.8	31.2	-	47.6	-	105.2	-	57.6	-	
Vert.	5720.0	41.3	-	31.9	5.8	31.2	-	47.9	-	110.8	-	62.9	-	
Vert.	5725.0	50.1	-	31.9	5.8	31.2	-	56.7	-	122.2	-	65.5	-	

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

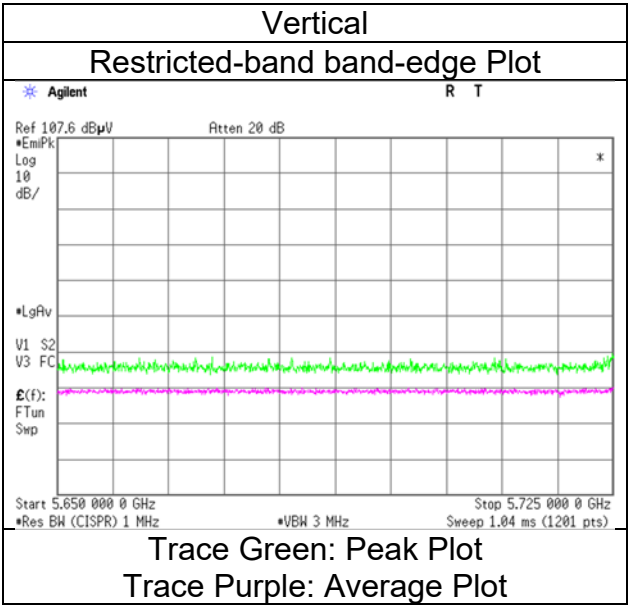
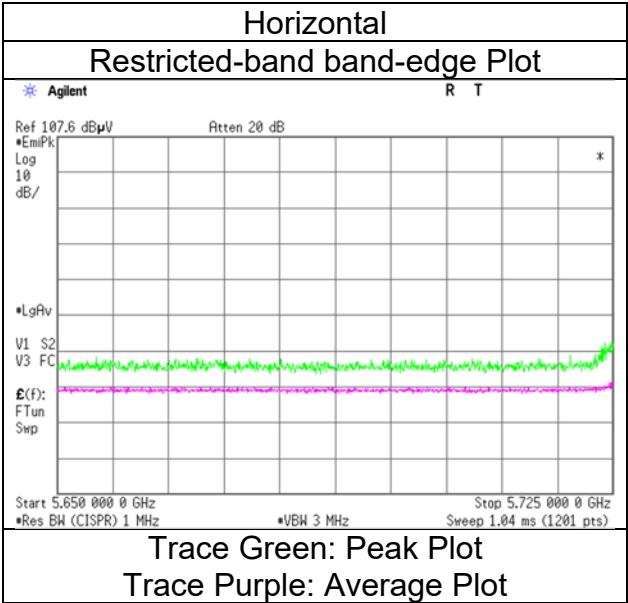
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [52-tone RU/Index 37] 5755 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [106-tone RU/Index 53] 5755 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	40.9	-	31.8	5.8	31.2	-	47.3	-	68.2	-	20.9	-	
Hori.	5700.0	41.0	-	31.8	5.8	31.2	-	47.5	-	105.2	-	57.7	-	
Hori.	5720.0	41.3	-	31.9	5.8	31.2	-	47.9	-	110.8	-	62.9	-	
Hori.	5725.0	53.2	-	31.9	5.8	31.2	-	59.8	-	122.2	-	62.4	-	
Vert.	5650.0	40.8	-	31.8	5.8	31.2	-	47.2	-	68.2	-	21.0	-	
Vert.	5700.0	40.9	-	31.8	5.8	31.2	-	47.4	-	105.2	-	57.8	-	
Vert.	5720.0	41.3	-	31.9	5.8	31.2	-	47.9	-	110.8	-	62.9	-	
Vert.	5725.0	50.0	-	31.9	5.8	31.2	-	56.6	-	122.2	-	65.6	-	

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 1 GHz.

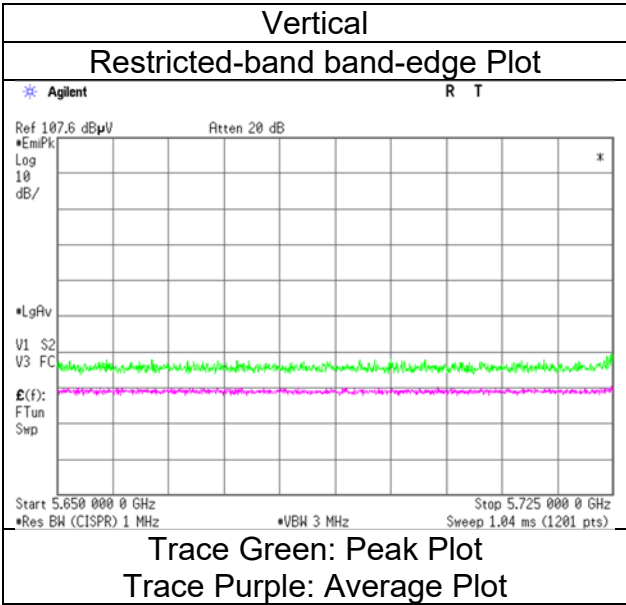
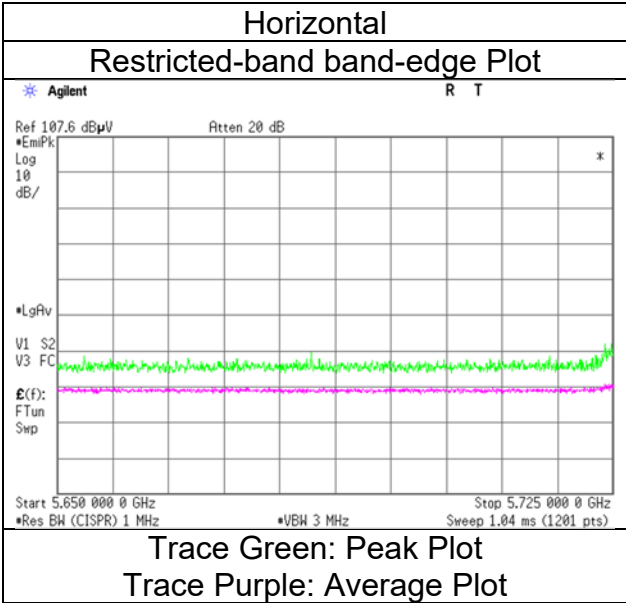
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [106-tone RU/Index 53] 5755 MHz



* 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.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [242-tone RU/Index 61] 5755 MHz

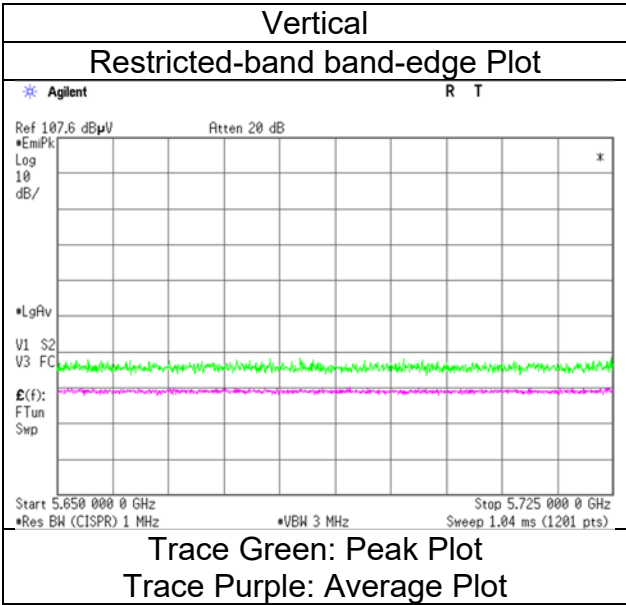
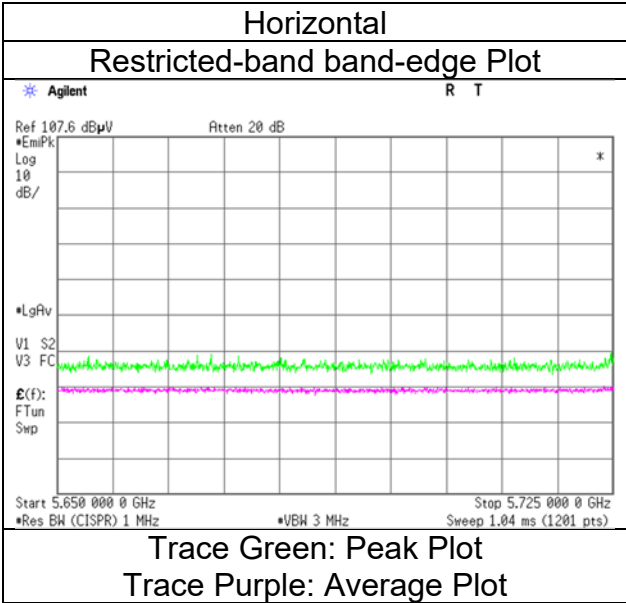
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	40.8	-	31.8	5.8	31.2	-	47.2	-	68.2	-	21.0	-	
Hori.	5700.0	40.9	-	31.8	5.8	31.2	-	47.4	-	105.2	-	57.8	-	
Hori.	5720.0	41.5	-	31.9	5.8	31.2	-	48.1	-	110.8	-	62.7	-	
Hori.	5725.0	49.6	-	31.9	5.8	31.2	-	56.2	-	122.2	-	66.1	-	
Vert.	5650.0	40.6	-	31.8	5.8	31.2	-	47.0	-	68.2	-	21.2	-	
Vert.	5700.0	40.8	-	31.8	5.8	31.2	-	47.3	-	105.2	-	57.9	-	
Vert.	5720.0	41.4	-	31.9	5.8	31.2	-	48.0	-	110.8	-	62.8	-	
Vert.	5725.0	47.7	-	31.9	5.8	31.2	-	54.3	-	122.2	-	67.9	-	

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 - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [242-tone RU/Index 61] 5755 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5755 MHz

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	40.9	-	31.8	5.8	31.2	-	47.3	-	68.2	-	20.9	-	
Hori.	5700.0	41.1	-	31.8	5.8	31.2	-	47.6	-	105.2	-	57.6	-	
Hori.	5720.0	41.2	-	31.9	5.8	31.2	-	47.8	-	110.8	-	63.0	-	
Hori.	5725.0	50.0	-	31.9	5.8	31.2	-	56.6	-	122.2	-	65.6	-	
Vert.	5650.0	40.7	-	31.8	5.8	31.2	-	47.1	-	68.2	-	21.1	-	
Vert.	5700.0	40.8	-	31.8	5.8	31.2	-	47.3	-	105.2	-	57.9	-	
Vert.	5720.0	41.0	-	31.9	5.8	31.2	-	47.6	-	110.8	-	63.2	-	
Vert.	5725.0	47.4	-	31.9	5.8	31.2	-	54.0	-	122.2	-	68.2	-	

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

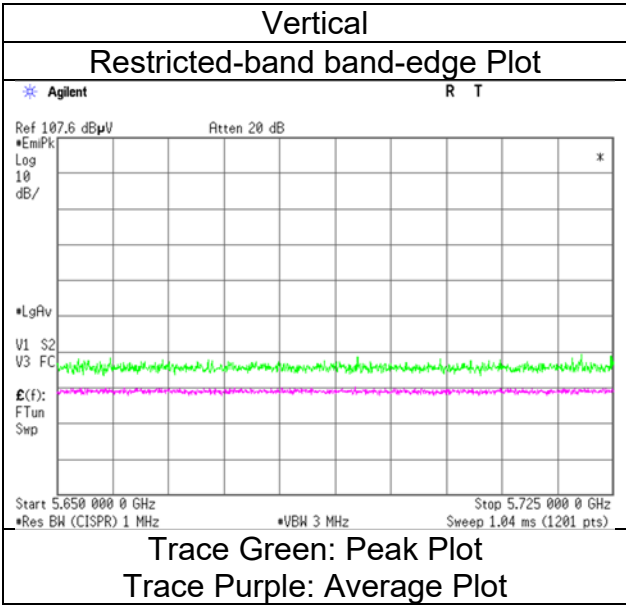
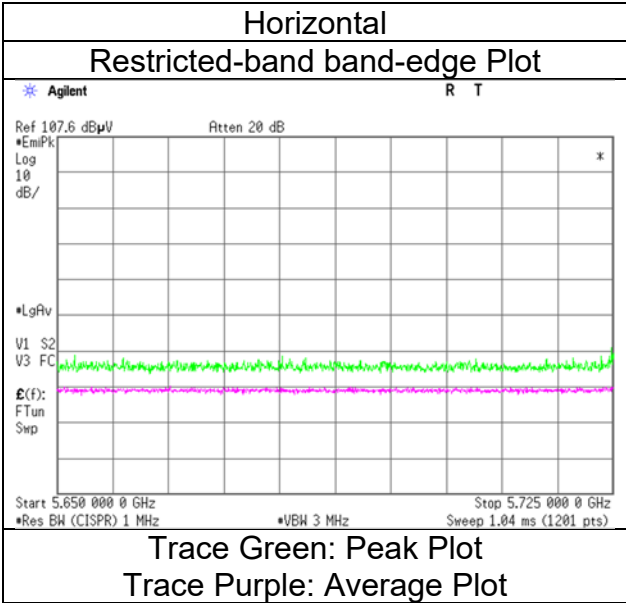
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5755 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [26-tone RU/Index 17] 5795 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5850.0	41.5	-	32.2	5.9	31.2	-	48.4	-	122.2	-	73.8	-	
Hori.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Hori.	5875.0	40.8	-	32.3	5.9	31.2	-	47.8	-	105.2	-	57.4	-	
Hori.	5925.0	40.6	-	32.4	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	5850.0	41.3	-	32.2	5.9	31.2	-	48.3	-	122.2	-	73.9	-	
Vert.	5855.0	41.0	-	32.3	5.9	31.2	-	48.0	-	110.8	-	62.8	-	
Vert.	5875.0	40.7	-	32.3	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Vert.	5925.0	40.4	-	32.4	5.9	31.2	-	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

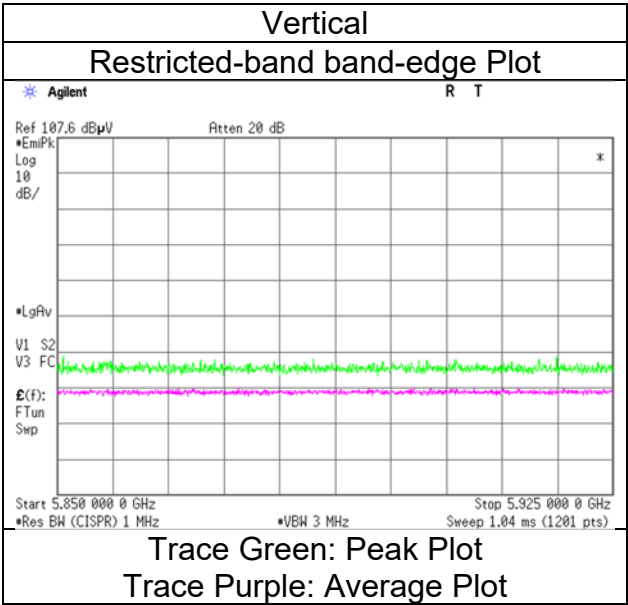
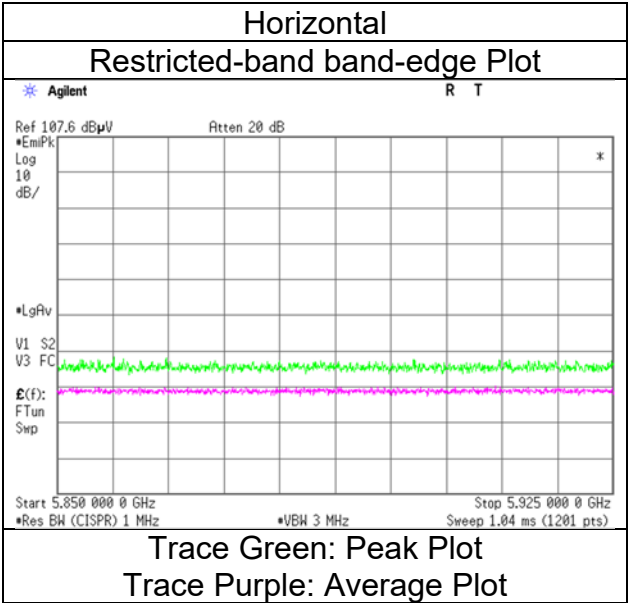
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [26-tone RU/Index 17] 5795 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 24 deg. C / 51 % RH
Engineer Takumi Nishida
 (1 GHz to 6 GHz)
Mode Tx 11ax-40 [52-tone RU/Index 44] 5795 MHz

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	41.5	-	32.2	5.9	31.2	-	48.5	-	122.2	-	73.7	-	
Hori.	5855.0	41.3	-	32.3	5.9	31.2	-	48.3	-	110.8	-	62.5	-	
Hori.	5875.0	40.9	-	32.3	5.9	31.2	-	47.9	-	105.2	-	57.3	-	
Hori.	5925.0	40.5	-	32.4	5.9	31.2	-	47.6	-	68.2	-	20.6	-	
Vert.	5850.0	41.4	-	32.2	5.9	31.2	-	48.4	-	122.2	-	73.8	-	
Vert.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Vert.	5875.0	40.7	-	32.3	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Vert.	5925.0	40.2	-	32.4	5.9	31.2	-	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

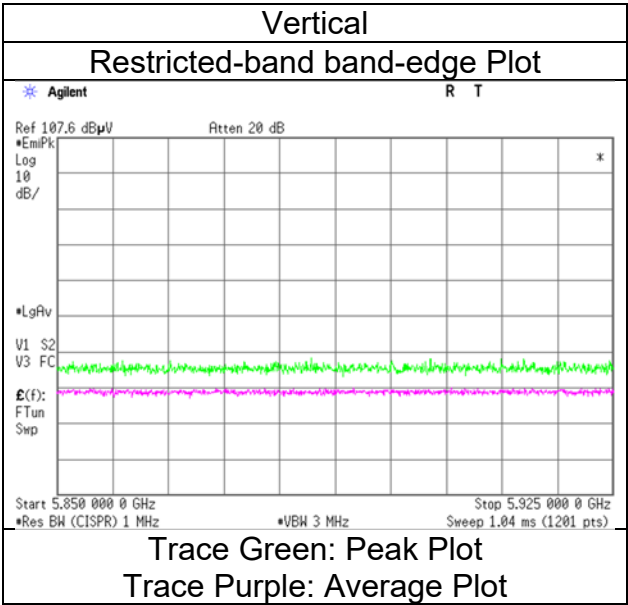
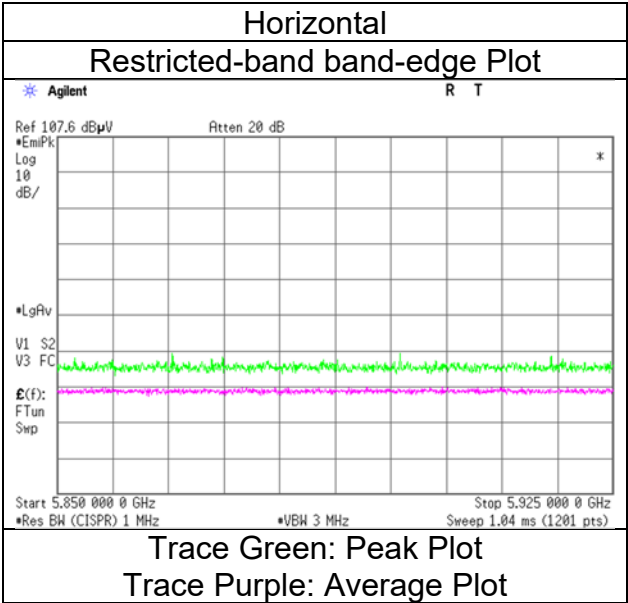
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [52-tone RU/Index 44] 5795 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [106-tone RU/Index 56] 5795 MHz

Polarity	Frequency	Reading (QP / PK)	Reading	Ant.	Loss	Gain	Duty	Result	Result	Limit	Limit	Margin	Margin	Remark
[Hori/Vert]	[MHz]	[dBuV]	(AV)	Factor	[dB]	[dB]	Factor	(QP / PK)	(AV)	(QP / PK)	(AV)	(QP / PK)	(AV)	
		[dBuV]	[dBuV]	[dB/m]			[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5850.0	41.5	-	32.2	5.9	31.2	-	48.5	-	122.2	-	73.7	-	
Hori.	5855.0	41.1	-	32.3	5.9	31.2	-	48.1	-	110.8	-	62.7	-	
Hori.	5875.0	41.0	-	32.3	5.9	31.2	-	48.0	-	105.2	-	57.2	-	
Hori.	5925.0	40.7	-	32.4	5.9	31.2	-	47.8	-	68.2	-	20.4	-	
Vert.	5850.0	41.3	-	32.2	5.9	31.2	-	48.3	-	122.2	-	73.9	-	
Vert.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Vert.	5875.0	40.9	-	32.3	5.9	31.2	-	47.9	-	105.2	-	57.3	-	
Vert.	5925.0	40.6	-	32.4	5.9	31.2	-	47.7	-	68.2	-	20.5	-	

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 1 GHz.

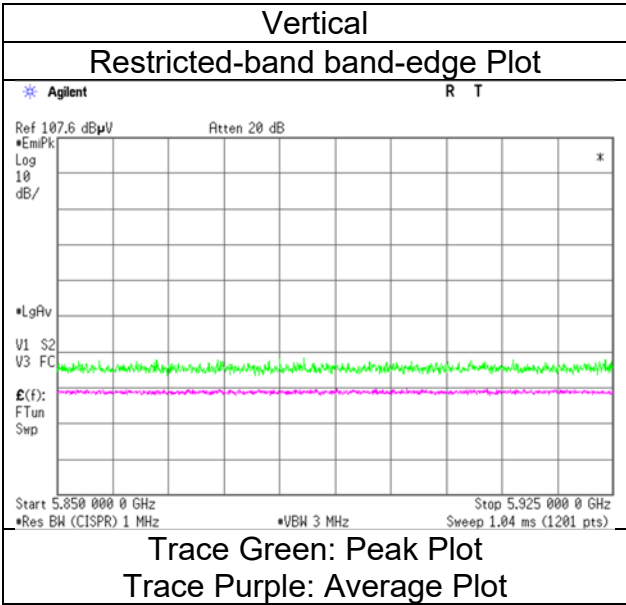
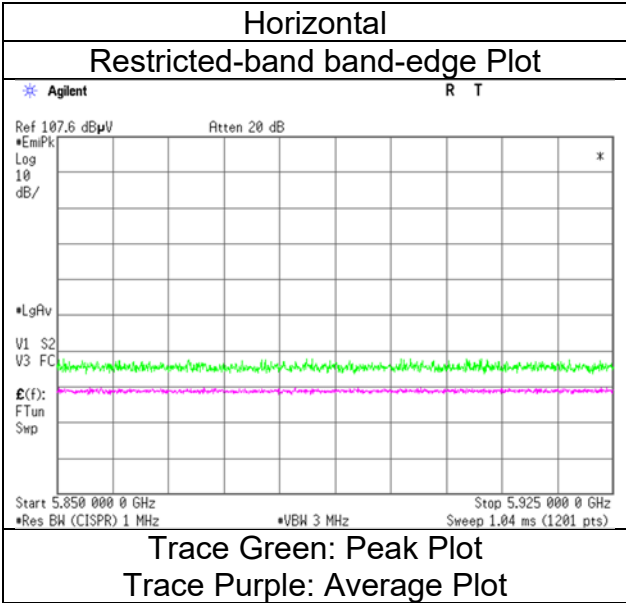
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [106-tone RU/Index 56] 5795 MHz



* 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.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [242-tone RU/Index 62] 5795 MHz

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	41.3	-	32.2	5.9	31.2	-	48.3	-	122.2	-	73.9	-	
Hori.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Hori.	5875.0	40.8	-	32.3	5.9	31.2	-	47.8	-	105.2	-	57.4	-	
Hori.	5925.0	40.5	-	32.4	5.9	31.2	-	47.6	-	68.2	-	20.6	-	
Vert.	5850.0	41.4	-	32.2	5.9	31.2	-	48.4	-	122.2	-	73.8	-	
Vert.	5855.0	41.1	-	32.3	5.9	31.2	-	48.1	-	110.8	-	62.7	-	
Vert.	5875.0	40.7	-	32.3	5.9	31.2	-	47.7	-	105.2	-	57.5	-	
Vert.	5925.0	40.4	-	32.4	5.9	31.2	-	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.

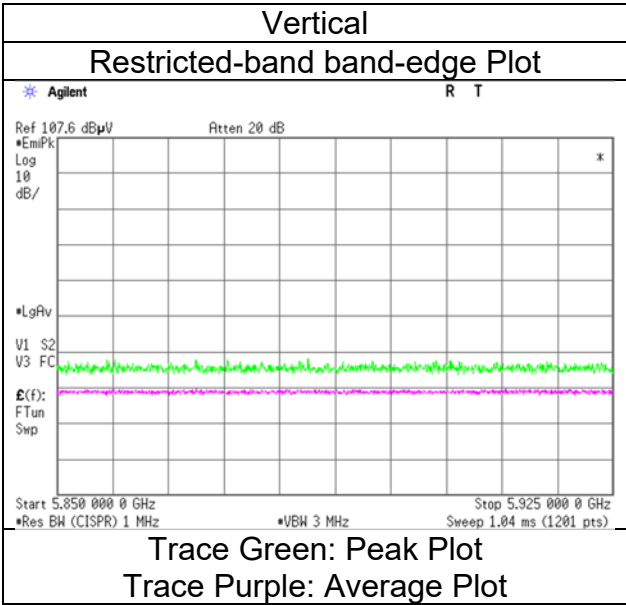
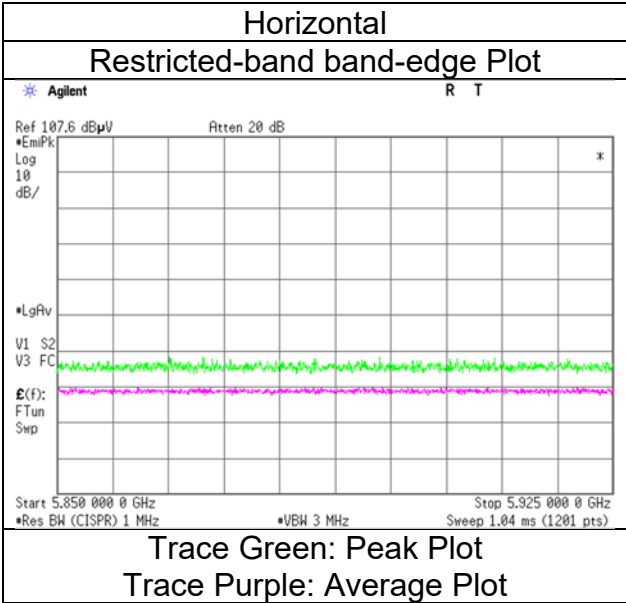
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-40 [242-tone RU/Index 62] 5795 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5795 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5850.0	41.5	-	32.2	5.9	31.2	-	48.5	-	122.2	-	73.7	-	
Hori.	5855.0	41.3	-	32.3	5.9	31.2	-	48.3	-	110.8	-	62.5	-	
Hori.	5875.0	40.6	-	32.3	5.9	31.2	-	47.6	-	105.2	-	57.6	-	
Hori.	5925.0	40.5	-	32.4	5.9	31.2	-	47.6	-	68.2	-	20.6	-	
Vert.	5850.0	41.6	-	32.2	5.9	31.2	-	48.6	-	122.2	-	73.6	-	
Vert.	5855.0	41.2	-	32.3	5.9	31.2	-	48.2	-	110.8	-	62.6	-	
Vert.	5875.0	40.5	-	32.3	5.9	31.2	-	47.5	-	105.2	-	57.7	-	
Vert.	5925.0	40.3	-	32.4	5.9	31.2	-	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

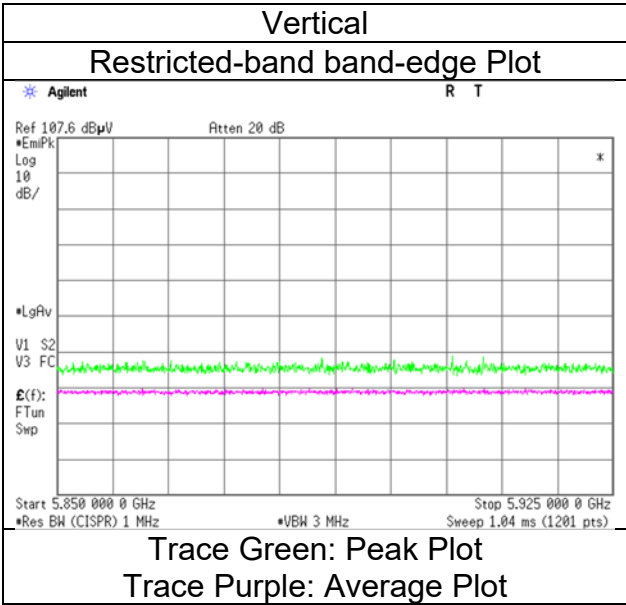
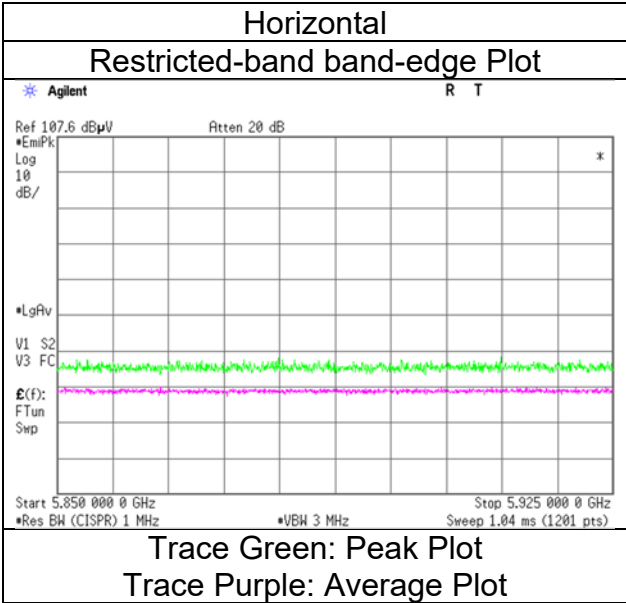
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log (3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-40 [484-tone RU/Index 65] 5795 MHz



* 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.3	No.3	No.3
Date	October 31, 2024	October 29, 2024	October 28, 2024
Temperature / Humidity	23 deg. C / 51 % RH	23 deg. C / 66 % RH	23 deg. C / 56 % RH
Engineer	Tomoya Sone	Tomoya Sone	Tomoya Sone
	(1 GHz to 6 GHz)	(6 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-40 [106-tone RU/Index 53] 5795 MHz		

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.	5000.0	39.9	32.3	31.7	5.6	31.1	-	46.0	38.5	73.9	53.9	27.9	15.4	
Hori.	5850.0	40.6	-	32.2	5.9	31.2	-	47.6	-	122.2	-	74.7	-	
Hori.	5855.0	40.6	-	32.2	5.9	31.2	-	47.5	-	110.8	-	63.3	-	
Hori.	5875.0	40.3	-	32.2	5.9	31.2	-	47.3	-	105.2	-	57.9	-	
Hori.	5925.0	41.3	-	32.3	5.9	31.2	-	48.3	-	68.2	-	19.9	-	
Hori.	11590.0	42.2	34.3	37.5	-1.7	32.8	-	45.3	37.3	73.9	53.9	28.6	16.6	Floor noise
Hori.	17385.0	43.1	-	39.8	0.1	31.9	-	51.1	-	68.2	-	17.1	-	Floor noise
Vert.	5000.0	41.4	38.3	31.7	5.6	31.1	-	47.6	44.4	73.9	53.9	26.3	9.5	
Vert.	5850.0	40.6	-	32.2	5.9	31.2	-	47.5	-	122.2	-	74.7	-	
Vert.	5855.0	40.3	-	32.2	5.9	31.2	-	47.3	-	110.8	-	63.5	-	
Vert.	5875.0	40.5	-	32.2	5.9	31.2	-	47.5	-	105.2	-	57.7	-	
Vert.	5925.0	40.7	-	32.3	5.9	31.2	-	47.8	-	68.2	-	20.4	-	
Vert.	11590.0	42.1	34.2	37.5	-1.7	32.8	-	45.2	37.2	73.9	53.9	28.7	16.7	Floor noise
Vert.	17385.0	43.0	-	39.8	0.1	31.9	-	51.0	-	68.2	-	17.2	-	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 - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 23 deg. C / 51 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tomoya Sone Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)

Mode Tx 11ac-80 5775 MHz

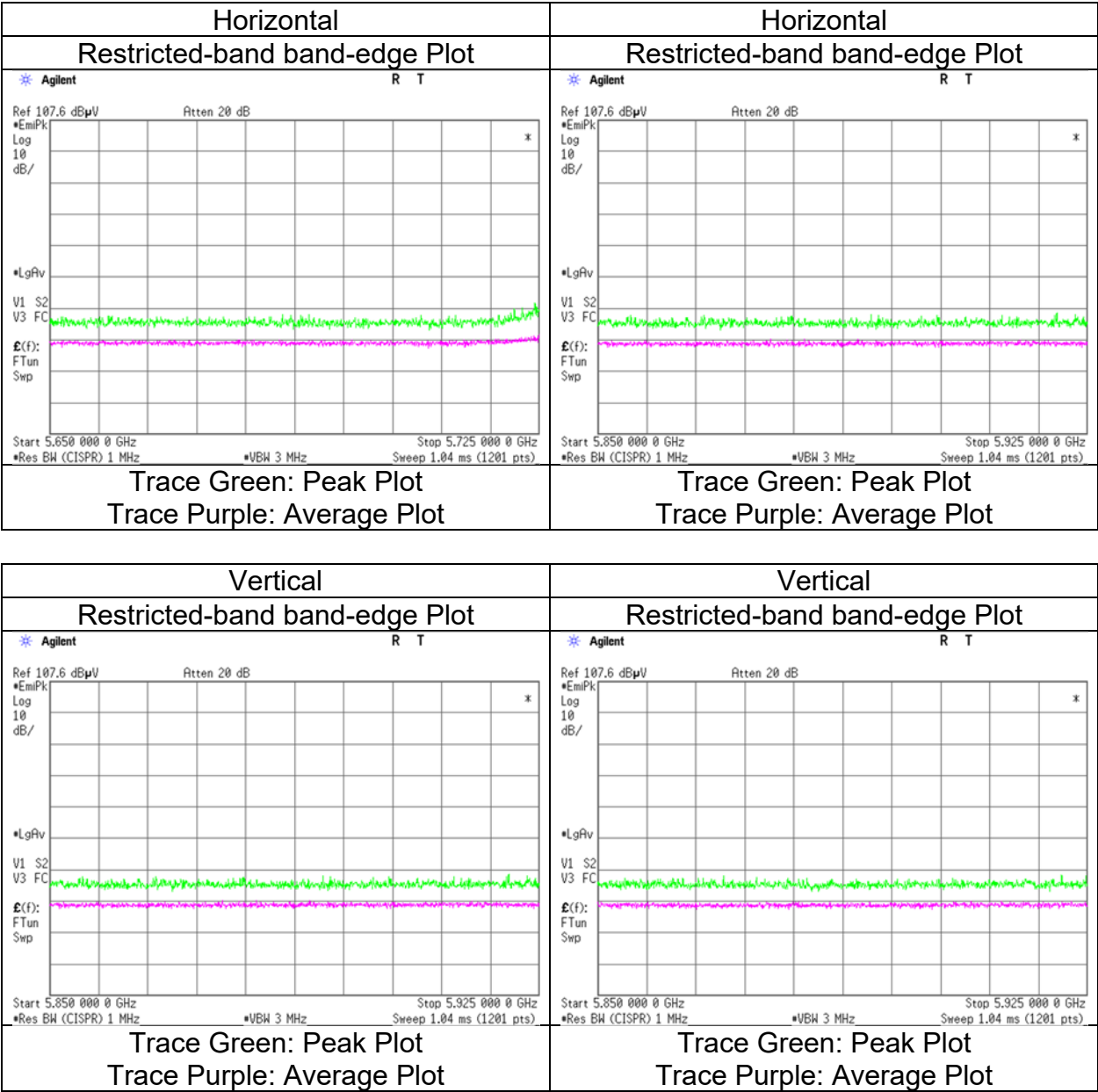
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5000.0	40.0	32.4	31.7	5.6	31.1	-	46.1	38.6	73.9	53.9	27.8	15.3	
Hori.	5650.0	40.9	-	31.7	5.8	31.2	-	47.3	-	68.2	-	20.9	-	
Hori.	5700.0	40.6	-	31.8	5.8	31.2	-	47.1	-	105.2	-	58.1	-	
Hori.	5720.0	45.0	-	31.9	5.8	31.2	-	51.5	-	110.8	-	59.3	-	
Hori.	5725.0	49.5	-	31.9	5.8	31.2	-	56.1	-	122.2	-	66.1	-	
Hori.	5850.0	40.8	-	32.2	5.9	31.2	-	47.8	-	122.2	-	74.4	-	
Hori.	5855.0	40.7	-	32.2	5.9	31.2	-	47.6	-	110.8	-	63.2	-	
Hori.	5875.0	40.3	-	32.2	5.9	31.2	-	47.3	-	105.2	-	57.9	-	
Hori.	5925.0	41.0	-	32.3	5.9	31.2	-	48.0	-	68.2	-	20.2	-	
Hori.	11550.0	42.8	33.7	37.5	-1.7	32.8	-	45.9	36.8	73.9	53.9	28.0	17.1	Floor noise
Hori.	17325.0	43.6	-	39.8	0.1	31.9	-	51.7	-	68.2	-	16.6	-	Floor noise
Vert.	5000.0	41.5	38.4	31.7	5.6	31.1	-	47.7	44.5	73.9	53.9	26.2	9.4	
Vert.	5650.0	40.9	-	31.7	5.8	31.2	-	47.3	-	68.2	-	20.9	-	
Vert.	5700.0	40.5	-	31.8	5.8	31.2	-	47.0	-	105.2	-	58.2	-	
Vert.	5720.0	44.0	-	31.9	5.8	31.2	-	50.5	-	110.8	-	60.3	-	
Vert.	5725.0	47.8	-	31.9	5.8	31.2	-	54.4	-	122.2	-	67.8	-	
Vert.	5850.0	40.6	-	32.2	5.9	31.2	-	47.5	-	122.2	-	74.7	-	
Vert.	5855.0	40.4	-	32.2	5.9	31.2	-	47.4	-	110.8	-	63.5	-	
Vert.	5875.0	40.6	-	32.2	5.9	31.2	-	47.5	-	105.2	-	57.7	-	
Vert.	5925.0	40.7	-	32.3	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	11550.0	41.9	33.8	37.5	-1.7	32.8	-	45.0	36.9	73.9	53.9	29.0	17.0	Floor noise
Vert.	17325.0	42.7	-	39.8	0.1	31.9	-	50.7	-	68.2	-	17.5	-	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 - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3
Date	October 31, 2024
Temperature / Humidity	23 deg. C / 51 % RH
Engineer	Tomoya Sone
	(1 GHz to 6 GHz)
Mode	Tx 11ac-80 5775 MHz



* 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 23 deg. C / 51 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tomoya Sone Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)
Mode Tx 11ax-80 [OFDM] 5210 MHz

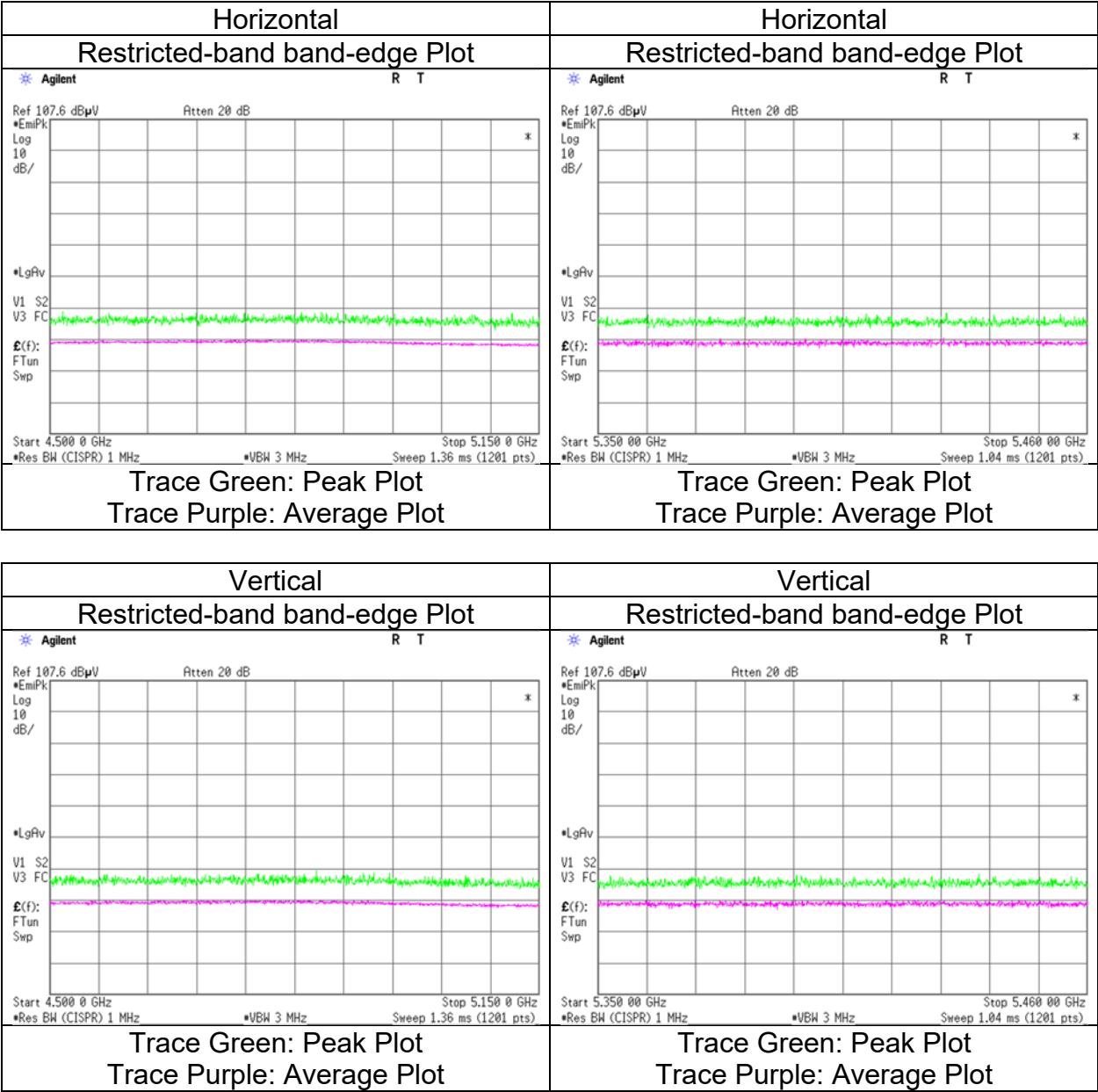
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5000.0	40.1	32.5	31.7	5.6	31.1	-	46.2	38.7	73.9	53.9	27.7	15.2	
Hori.	5150.0	41.6	32.4	31.8	5.6	31.1	-	47.9	38.7	73.9	53.9	26.0	15.2	
Hori.	5350.0	41.4	32.5	31.6	5.7	31.1	-	47.6	38.6	73.9	53.9	26.4	15.3	
Hori.	5760.0	43.2	-	32.0	5.9	31.2	-	49.8	-	68.2	-	18.4	-	
Hori.	10420.0	41.4	-	35.9	-2.1	32.9	-	42.3	-	68.2	-	25.9	-	Floor noise
Hori.	15630.0	43.0	35.8	39.4	-0.1	32.0	-	50.3	43.1	73.9	53.9	23.6	10.8	Floor noise
Vert.	5000.0	41.6	38.5	31.7	5.6	31.1	-	47.8	44.6	73.9	53.9	26.1	9.3	
Vert.	5150.0	41.0	32.1	31.8	5.6	31.1	-	47.3	38.4	73.9	53.9	26.6	15.5	
Vert.	5350.0	40.5	32.4	31.6	5.7	31.1	-	46.6	38.5	73.9	53.9	27.3	15.4	
Vert.	5760.0	42.6	-	32.0	5.9	31.2	-	49.3	-	68.2	-	18.9	-	
Vert.	10420.0	43.0	-	35.9	-2.1	32.9	-	44.0	-	68.2	-	24.3	-	Floor noise
Vert.	15630.0	43.5	35.5	39.4	-0.1	32.0	-	50.8	42.8	73.9	53.9	23.1	11.1	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.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3
Date	October 31, 2024
Temperature / Humidity	23 deg. C / 51 % RH
Engineer	Tomoya Sone
Mode	Tx 11ax-80 [OFDM] 5210 MHz



* 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.3 No.3 No.3
Date October 31, 2024 October 29, 2024 October 29, 2024
Temperature / Humidity 23 deg. C / 51 % RH 23 deg. C / 66 % RH 22 deg. C / 59 % RH
Engineer Tomoya Sone Tomoya Sone Tetsuro Yoshida
 (1 GHz to 6 GHz) (6 GHz to 10 GHz) (10 GHz to 18 GHz)

Semi Anechoic Chamber No.3 No.3
Date October 28, 2024 October 28, 2024
Temperature / Humidity 23 deg. C / 56 % RH 23 deg. C / 65 % RH
Engineer Tomoya Sone Tetsuro Yoshida
 (18 GHz to 26.5 GHz) (Above 26.5 GHz)
Mode Tx 11ax-80 [OFDM] 5775 MHz

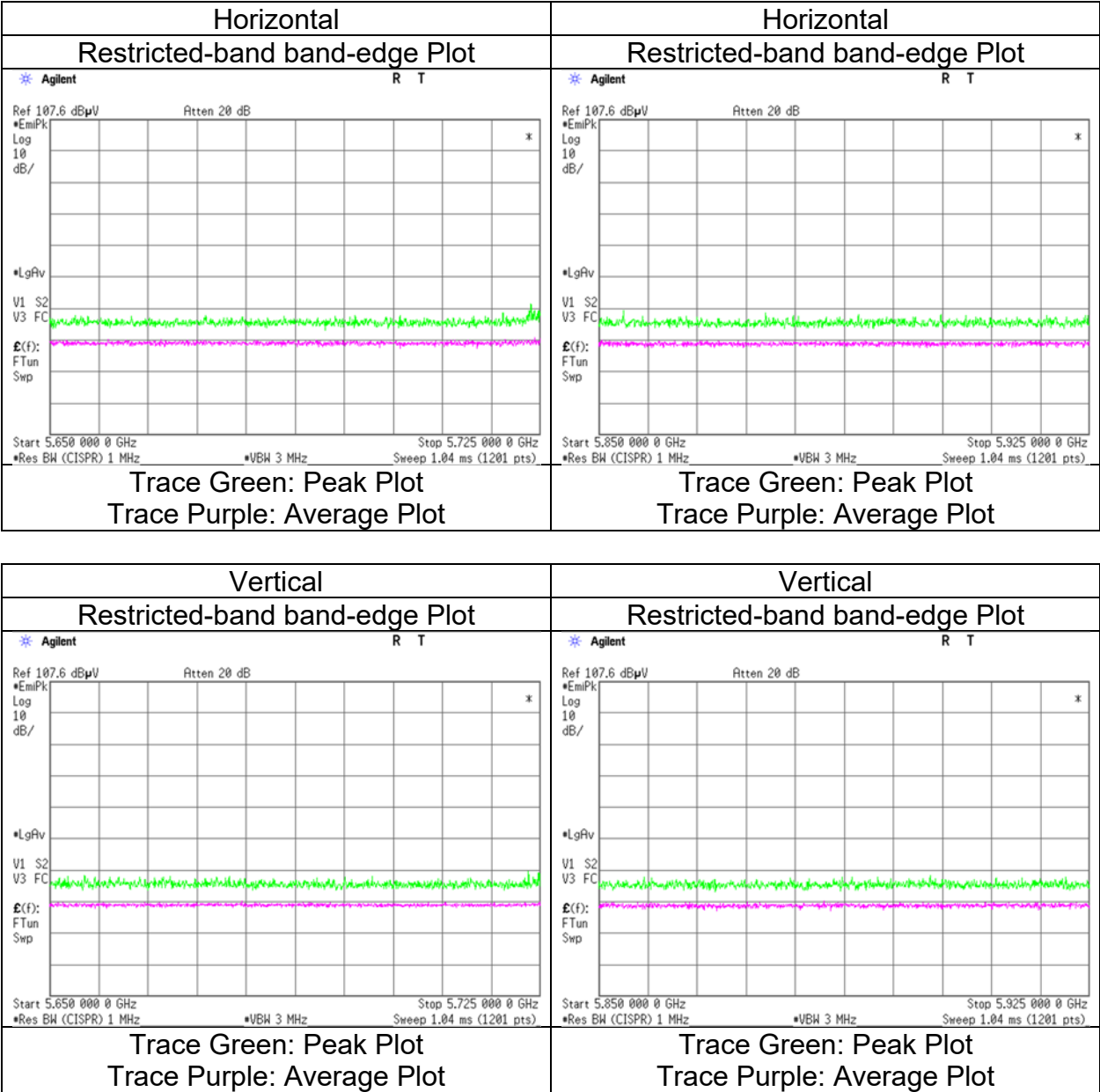
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5000.0	40.2	32.6	31.7	5.6	31.1	-	46.3	38.8	73.9	53.9	27.6	15.1	
Hori.	5650.0	40.7	-	31.7	5.8	31.2	-	47.1	-	68.2	-	21.1	-	
Hori.	5700.0	41.4	-	31.8	5.8	31.2	-	47.9	-	105.2	-	57.3	-	
Hori.	5720.0	48.1	-	31.9	5.8	31.2	-	54.7	-	110.8	-	56.1	-	
Hori.	5725.0	53.8	-	31.9	5.8	31.2	-	60.4	-	122.2	-	61.8	-	
Hori.	5850.0	40.6	-	32.2	5.9	31.2	-	47.5	-	122.2	-	74.7	-	
Hori.	5855.0	40.5	-	32.2	5.9	31.2	-	47.5	-	110.8	-	63.3	-	
Hori.	5875.0	41.3	-	32.2	5.9	31.2	-	48.2	-	105.2	-	57.0	-	
Hori.	5925.0	41.7	-	32.3	5.9	31.2	-	48.7	-	68.2	-	19.5	-	
Hori.	11550.0	41.7	33.5	37.5	-1.7	32.8	-	44.8	36.5	73.9	53.9	29.1	17.4	Floor noise
Hori.	17325.0	43.5	-	39.8	0.1	31.9	-	51.5	-	68.2	-	16.7	-	Floor noise
Vert.	5000.0	41.7	38.6	31.7	5.6	31.1	-	47.9	44.7	73.9	53.9	26.0	9.2	
Vert.	5650.0	40.7	-	31.7	5.8	31.2	-	47.1	-	68.2	-	21.1	-	
Vert.	5700.0	40.3	-	31.8	5.8	31.2	-	46.8	-	105.2	-	58.5	-	
Vert.	5720.0	43.2	-	31.9	5.8	31.2	-	49.8	-	110.8	-	61.0	-	
Vert.	5725.0	49.7	-	31.9	5.8	31.2	-	56.3	-	122.2	-	65.9	-	
Vert.	5850.0	40.6	-	32.2	5.9	31.2	-	47.5	-	122.2	-	74.7	-	
Vert.	5855.0	40.0	-	32.2	5.9	31.2	-	47.0	-	110.8	-	63.9	-	
Vert.	5875.0	40.6	-	32.2	5.9	31.2	-	47.6	-	105.2	-	57.6	-	
Vert.	5925.0	40.7	-	32.3	5.9	31.2	-	47.7	-	68.2	-	20.5	-	
Vert.	11550.0	42.3	33.8	37.5	-1.7	32.8	-	45.4	36.9	73.9	53.9	28.5	17.0	Floor noise
Vert.	17325.0	44.3	-	39.8	0.1	31.9	-	52.3	-	68.2	-	15.9	-	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3
Date	October 31, 2024
Temperature / Humidity	23 deg. C / 51 % RH
Engineer	Tomoya Sone
Mode	Tx 11ax-80 [OFDM] 5775 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 24 deg. C / 51 % RH
Engineer Takumi Nishida
(1 GHz to 6 GHz)
Mode Tx 11ax-80 [26-tone RU/Index 0] 5210 MHz

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	43.2	32.6	31.7	5.6	31.1	-	49.4	38.7	73.9	53.9	24.5	15.2	
Vert.	5150.0	42.8	32.2	31.7	5.6	31.1	-	49.0	38.4	73.9	53.9	24.9	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.

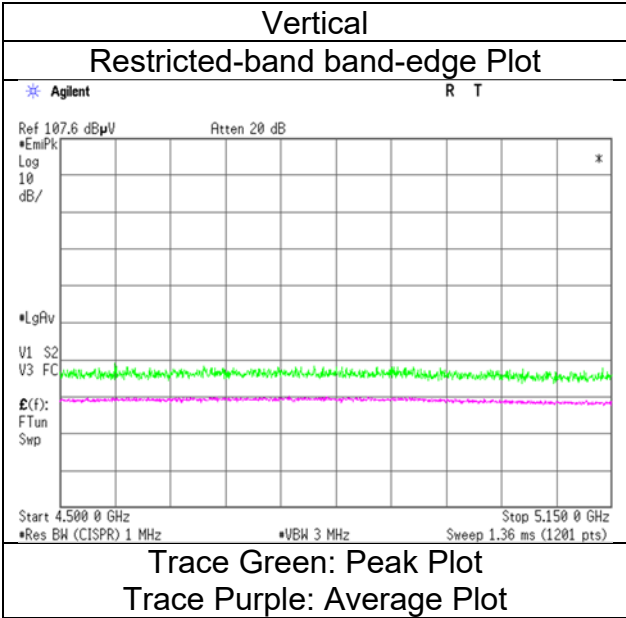
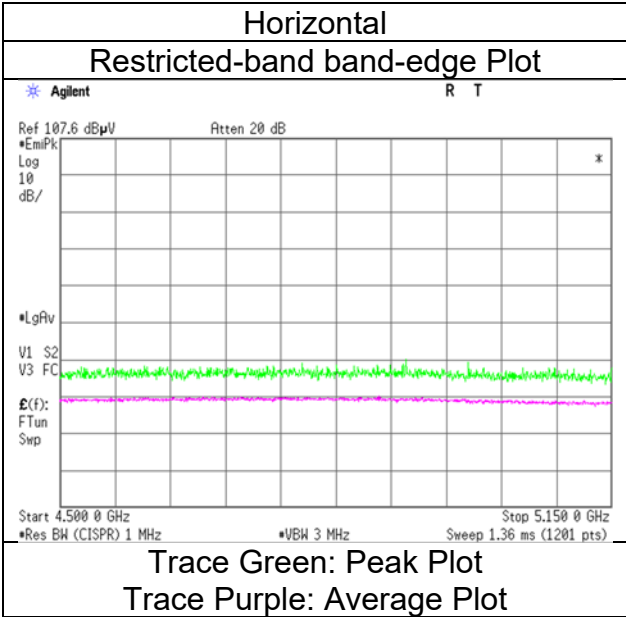
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-80 [26-tone RU/Index 0] 5210 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 37] 5210 MHz

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	43.1	32.6	31.7	5.6	31.1	-	49.3	38.8	73.9	53.9	24.6	15.1	
Vert.	5150.0	42.6	32.3	31.7	5.6	31.1	-	48.8	38.5	73.9	53.9	25.1	15.4	

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

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

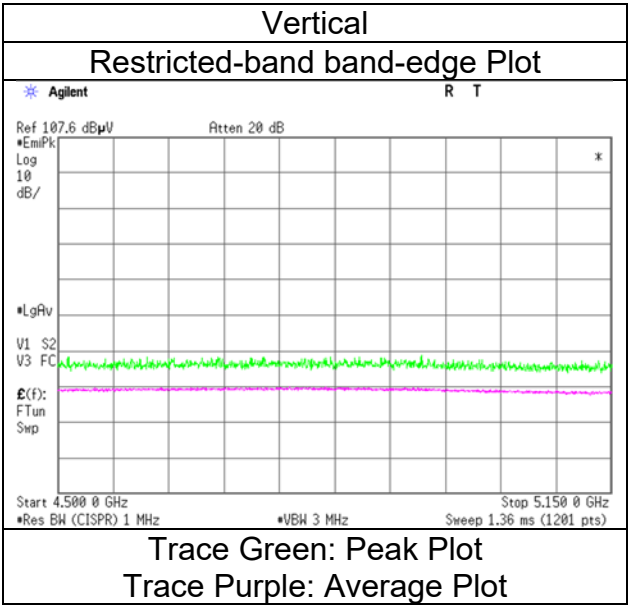
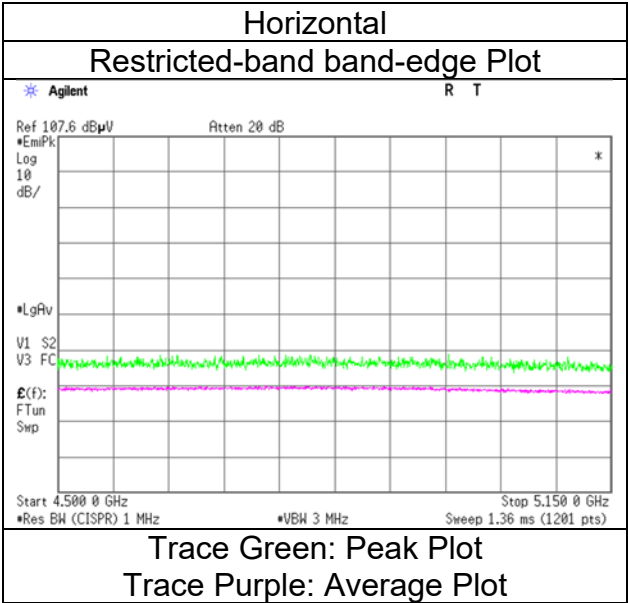
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 37] 5210 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 53] 5210 MHz

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	42.9	32.5	31.7	5.6	31.1	-	49.1	38.7	73.9	53.9	24.8	15.2	
Vert.	5150.0	42.4	32.2	31.7	5.6	31.1	-	48.6	38.4	73.9	53.9	25.3	15.5	

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

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

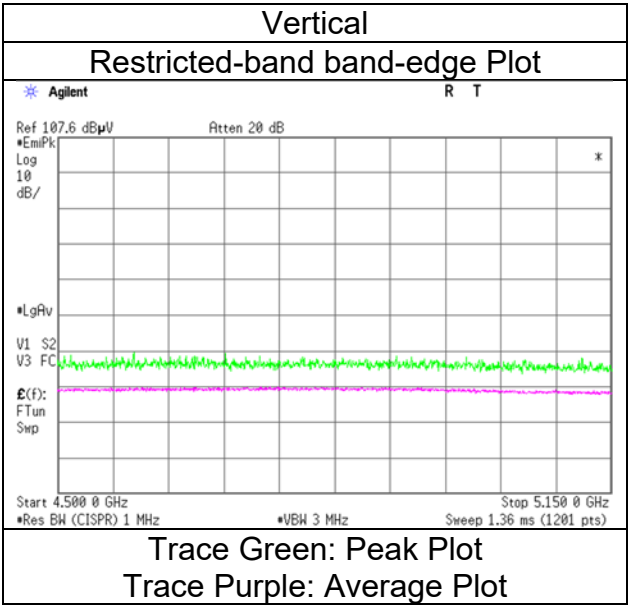
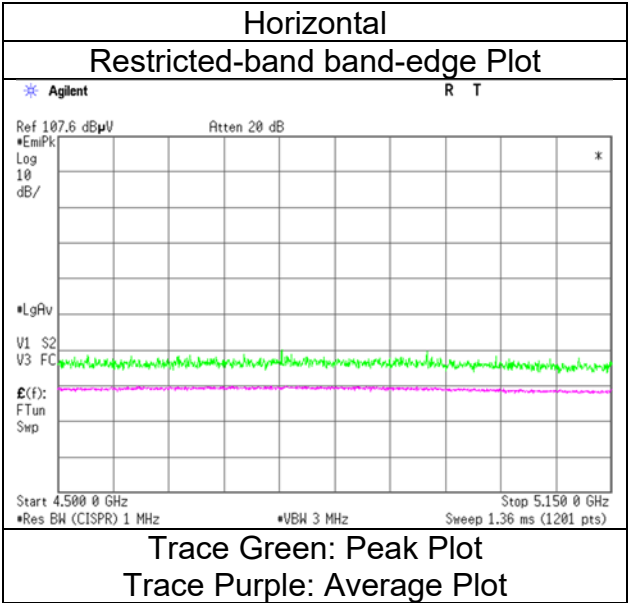
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 53] 5210 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 24 deg. C / 51 % RH
Engineer Takumi Nishida
(1 GHz to 6 GHz)
Mode Tx 11ax-80 [242-tone RU/Index 61] 5210 MHz

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	42.8	32.4	31.7	5.6	31.1	-	49.0	38.6	73.9	53.9	24.9	15.3	
Vert.	5150.0	42.4	32.1	31.7	5.6	31.1	-	48.6	38.3	73.9	53.9	25.3	15.6	

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

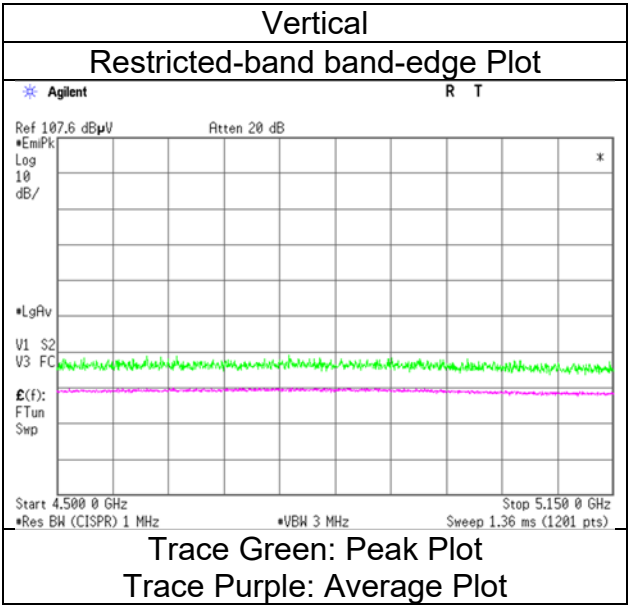
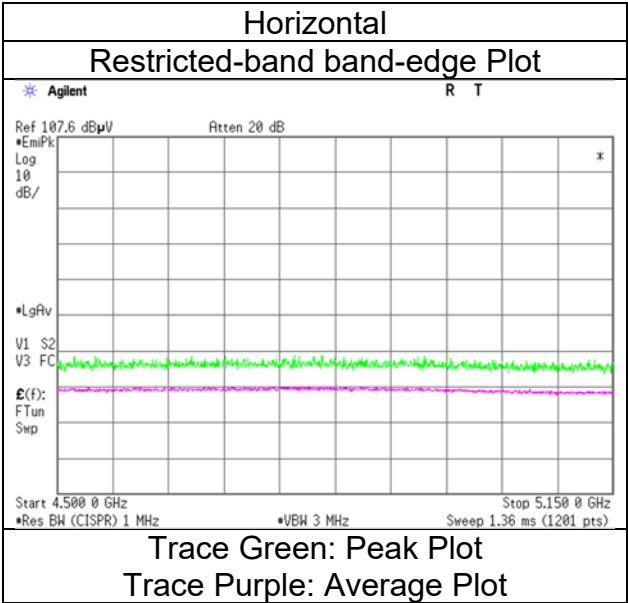
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [242-tone RU/Index 61] 5210 MHz



* 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.3
Date November 13, 2024
Temperature / Humidity 24 deg. C / 51 % RH
Engineer Takumi Nishida
(1 GHz to 6 GHz)
Mode Tx 11ax-80 [484-tone RU/Index 65] 5210 MHz

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	42.7	32.5	31.7	5.6	31.1	-	48.9	38.7	73.9	53.9	25.0	15.2	
Vert.	5150.0	42.3	32.1	31.7	5.6	31.1	-	48.5	38.3	73.9	53.9	25.4	15.6	

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.

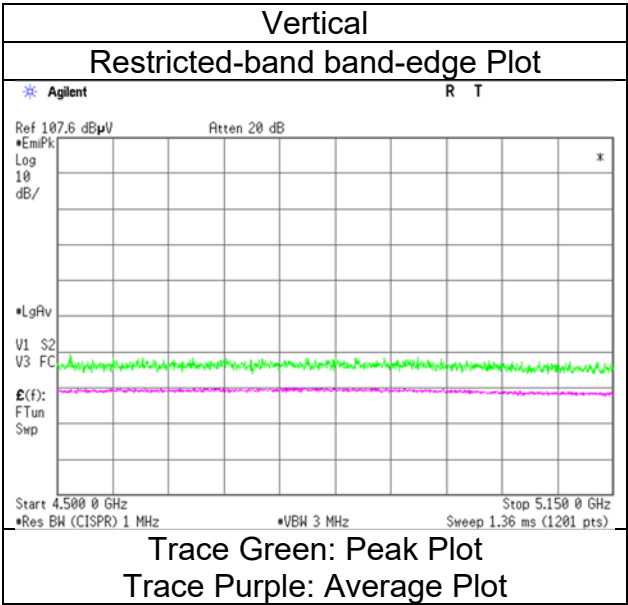
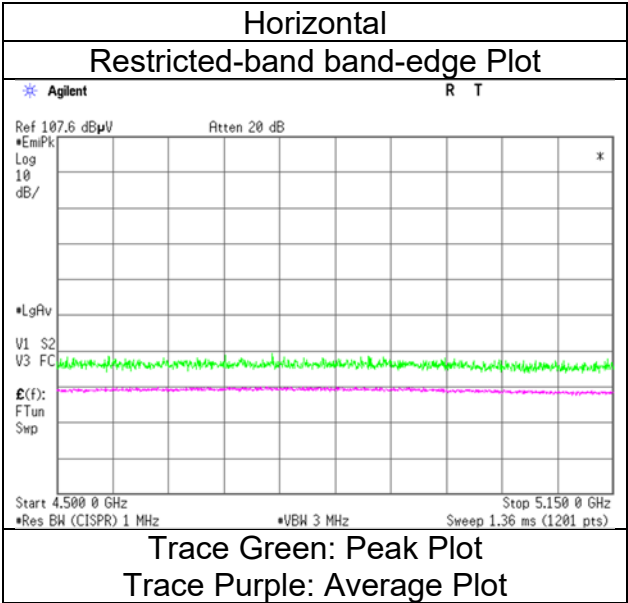
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-80 [484-tone RU/Index 65] 5210 MHz



* 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.3
Date	November 13, 2024
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Takumi Nishida (1 GHz to 6 GHz)
Mode	Tx 11ax-80 [996-tone RU/Index 67] 5210 MHz

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	42.8	32.6	31.7	5.6	31.1	-	49.0	38.8	73.9	53.9	24.9	15.1	
Vert.	5150.0	42.4	32.2	31.7	5.6	31.1	-	48.6	38.4	73.9	53.9	25.3	15.5	

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

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

*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.

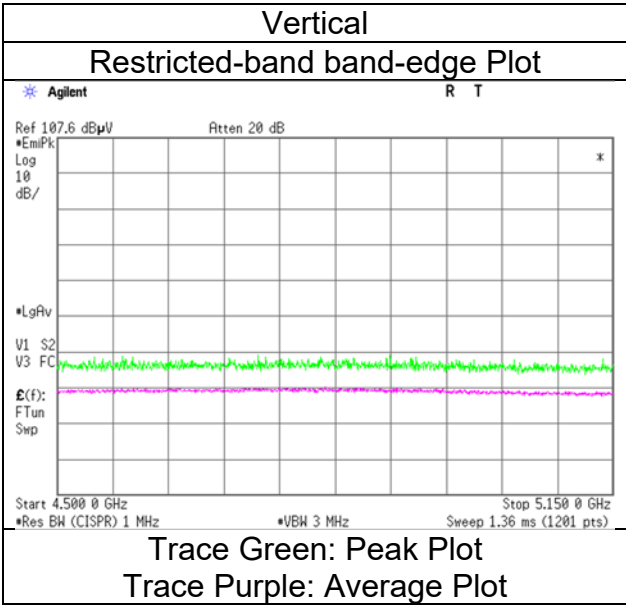
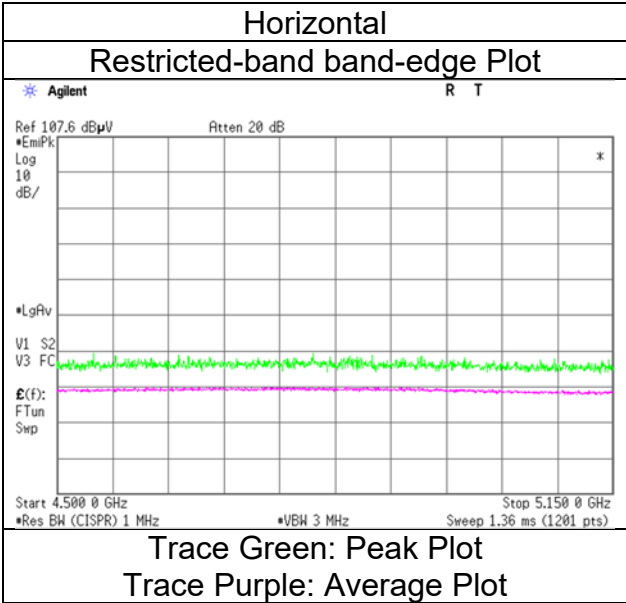
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 13, 2024
24 deg. C / 51 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-80 [996-tone RU/Index 67] 5210 MHz



* 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.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [26-tone RU/Index 36] 5210 MHz

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	42.0	32.4	31.5	5.7	31.1	-	48.1	38.5	73.9	53.9	25.9	15.5	
Vert.	5350.0	41.8	32.3	31.5	5.7	31.1	-	47.8	38.3	73.9	53.9	26.1	15.6	

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

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

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

*QP detector was used up to 1 GHz.

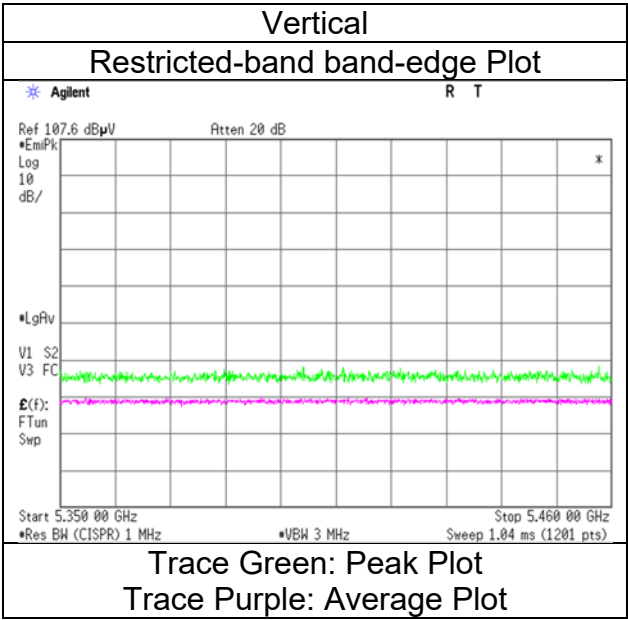
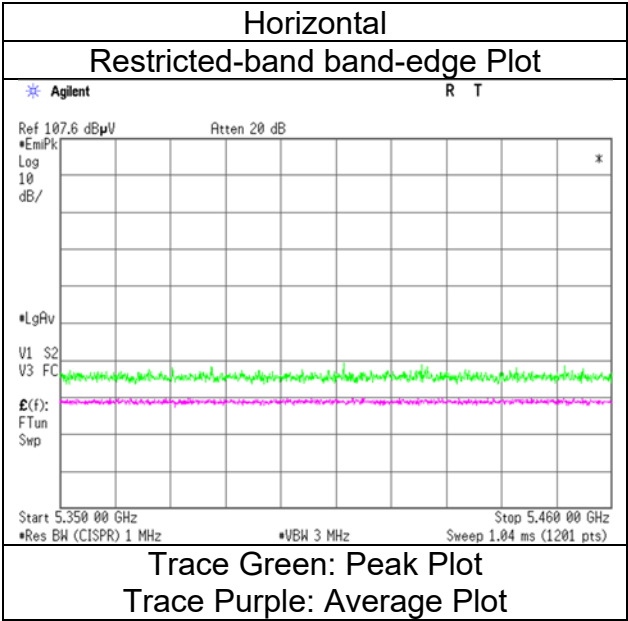
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 15, 2024
22 deg. C / 47 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-80 [26-tone RU/Index 36] 5210 MHz



* 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.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 52] 5210 MHz

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	42.1	32.4	31.5	5.7	31.1	-	48.2	38.5	73.9	53.9	25.8	15.5	
Vert.	5350.0	41.9	32.1	31.5	5.7	31.1	-	48.0	38.2	73.9	53.9	26.0	15.8	

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

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

*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.

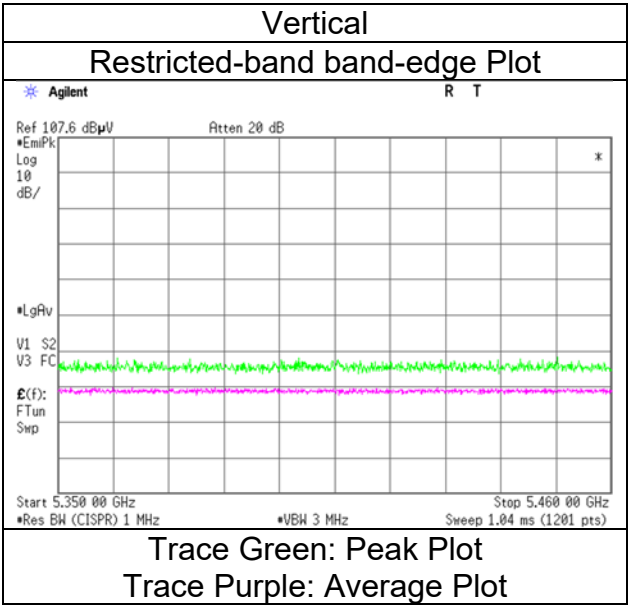
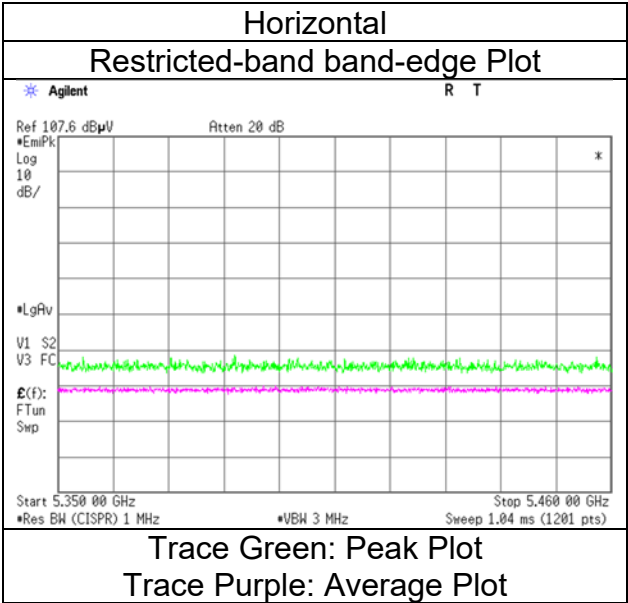
Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 15, 2024
22 deg. C / 47 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-80 [52-tone RU/Index 52] 5210 MHz



* 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.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 60] 5210 MHz

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	42.2	32.4	31.5	5.7	31.1	-	48.3	38.5	73.9	53.9	25.7	15.5	
Vert.	5350.0	42.0	32.1	31.5	5.7	31.1	-	48.1	38.2	73.9	53.9	25.9	15.8	

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

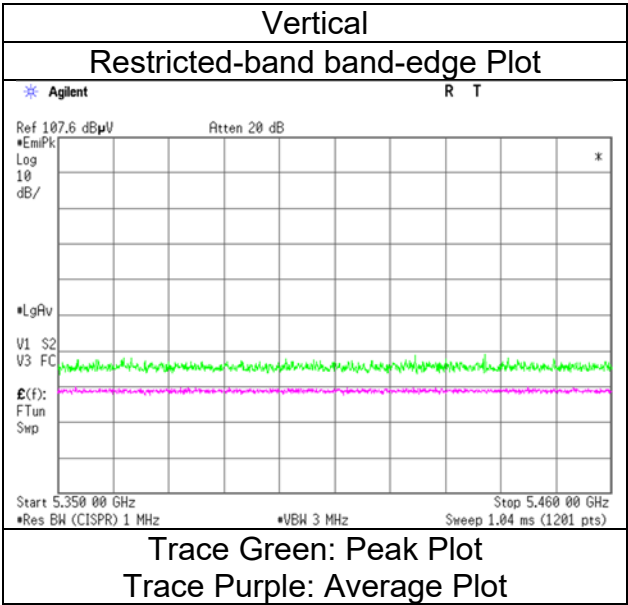
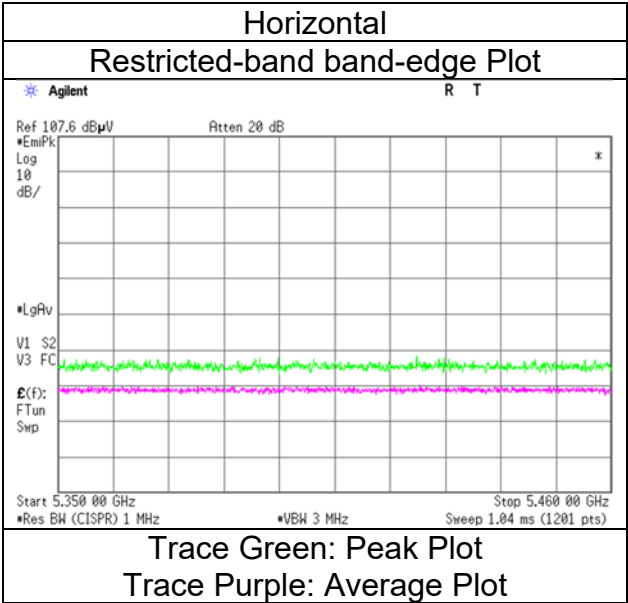
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8\text{ m} / 3.0\text{ m}) = 2.06\text{ dB}$

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 60] 5210 MHz



* 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.3
Date November 15, 2024
Temperature / Humidity 22 deg. C / 47 % RH
Engineer Takumi Nishida
(1 GHz to 6 GHz)
Mode Tx 11ax-80 [242-tone RU/Index 64] 5210 MHz

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	42.3	32.3	31.5	5.7	31.1	-	48.4	38.4	73.9	53.9	25.6	15.6	
Vert.	5350.0	42.1	32.0	31.5	5.7	31.1	-	48.2	38.1	73.9	53.9	25.8	15.9	

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

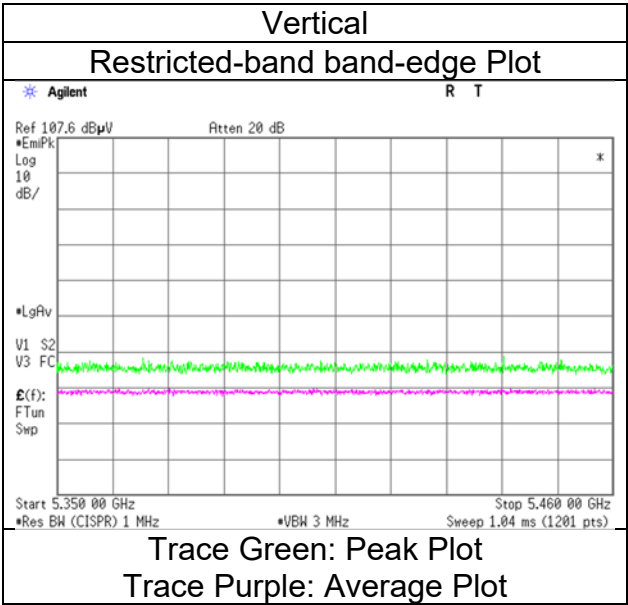
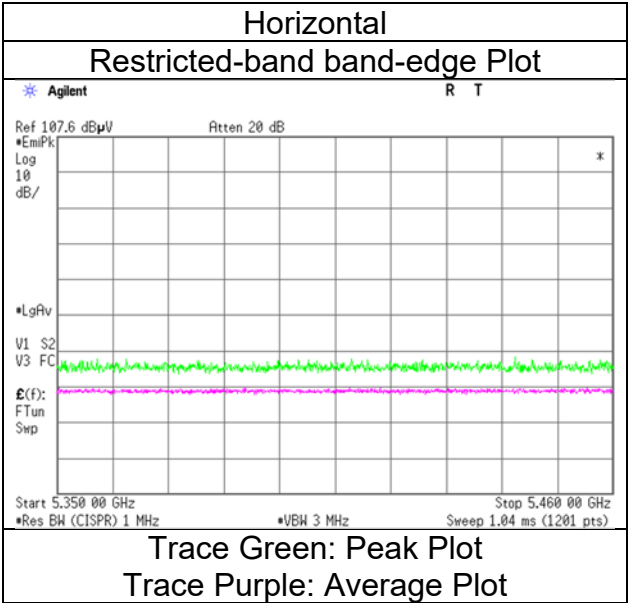
*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.3
Date	November 15, 2024
Temperature / Humidity	22 deg. C / 47 % RH
Engineer	Takumi Nishida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [242-tone RU/Index 64] 5210 MHz



* 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.3 No.3 No.3
Date November 1, 2024 October 29, 2024 October 28, 2024
Temperature / Humidity 21 deg. C / 60 % RH 23 deg. C / 66 % RH 23 deg. C / 56 % RH
Engineer Tetsuro Yoshida Tomoya Sone Tomoya Sone
 (1 GHz to 6 GHz) (6 GHz to 18 GHz) (Above 18 GHz)
Mode Tx 11ax-80 [484-tone RU/Index 66] 5210 MHz

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.	5000.0	40.7	33.9	31.7	5.6	31.1	-	46.8	40.0	73.9	53.9	27.1	13.9	
Hori.	5350.0	40.3	30.7	31.6	5.7	31.1	-	46.4	36.9	73.9	53.9	27.5	17.1	
Hori.	5760.0	41.3	-	32.0	5.9	31.2	-	48.0	-	68.2	-	20.2	-	
Hori.	10420.0	41.7	-	35.9	-2.1	32.9	-	42.6	-	68.2	-	25.6	-	Floor noise
Hori.	15630.0	43.0	35.4	39.4	-0.1	32.0	-	50.3	42.7	73.9	53.9	23.6	11.2	Floor noise
Vert.	5000.0	43.3	38.5	31.7	5.6	31.1	-	49.4	44.7	73.9	53.9	24.5	9.3	
Vert.	5350.0	41.2	30.7	31.6	5.7	31.1	-	47.3	36.8	73.9	53.9	26.6	17.1	
Vert.	5760.0	40.9	-	32.0	5.9	31.2	-	47.6	-	68.2	-	20.6	-	
Vert.	10420.0	41.6	-	35.9	-2.1	32.9	-	42.5	-	68.2	-	25.7	-	Floor noise
Vert.	15630.0	42.9	35.3	39.4	-0.1	32.0	-	50.2	42.6	73.9	53.9	23.7	11.3	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.

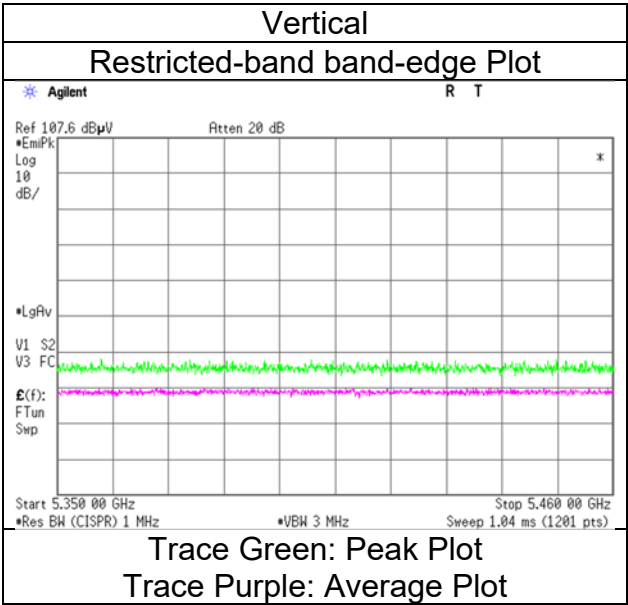
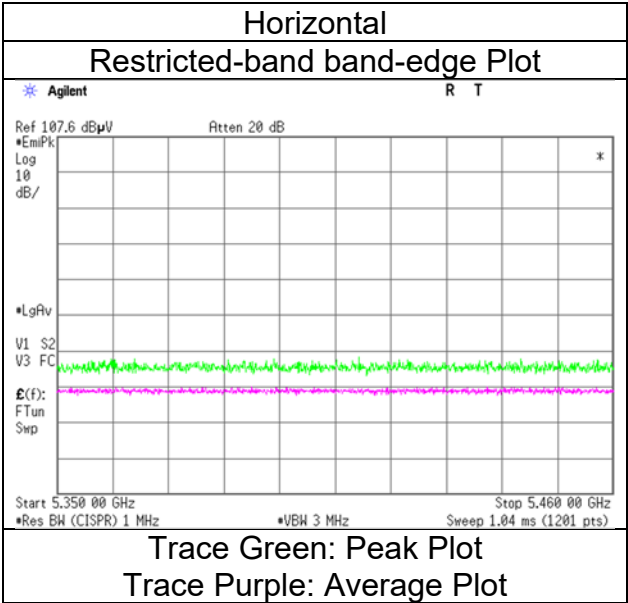
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 dB
 10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 1, 2024
21 deg. C / 60 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-80 [484-tone RU/Index 66] 5210 MHz



* 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.3
Date November 15, 2024
Temperature / Humidity 22 deg. C / 47 % RH
Engineer Takumi Nishida
(1 GHz to 6 GHz)
Mode Tx 11ax-80 [996-tone RU/Index 67] 5210 MHz

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	42.5	32.4	31.5	5.7	31.1	-	48.6	38.5	73.9	53.9	25.4	15.5	
Vert.	5350.0	42.4	32.2	31.5	5.7	31.1	-	48.5	38.3	73.9	53.9	25.5	15.7	

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.

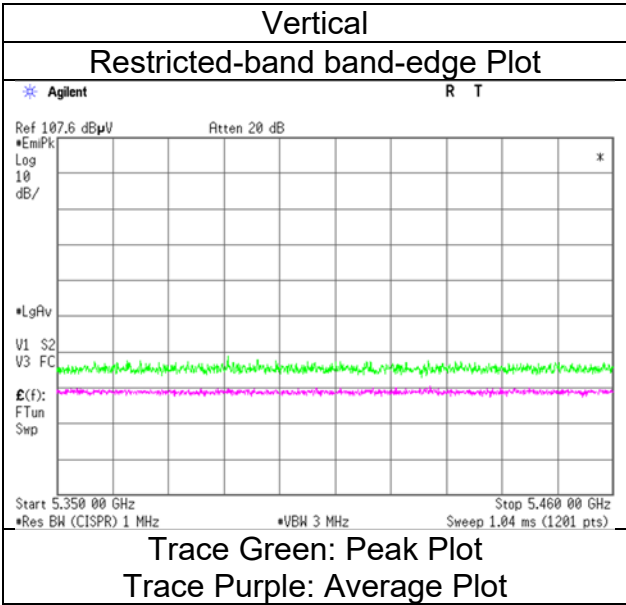
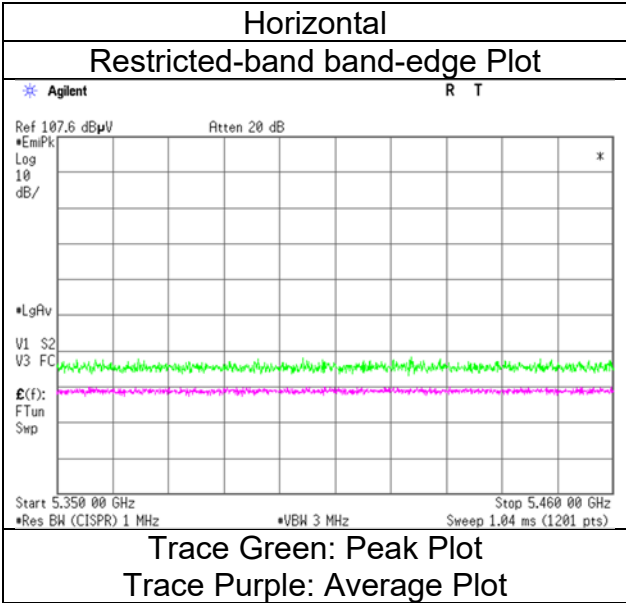
Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 15, 2024
22 deg. C / 47 % RH
Takumi Nishida
(1 GHz to 6 GHz)
Tx 11ax-80 [996-tone RU/Index 67] 5210 MHz



* 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.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida (1 GHz to 6 GHz)
Mode	Tx 11ax-80 [26-tone RU/Index 0] 5775 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	40.6	-	31.7	5.8	31.2	-	47.0	-	68.2	-	21.2	-	
Hori.	5700.0	40.1	-	31.8	5.8	31.2	-	46.6	-	105.2	-	58.6	-	
Hori.	5720.0	44.9	-	31.9	5.8	31.2	-	51.5	-	110.8	-	59.3	-	
Hori.	5725.0	53.4	-	31.9	5.8	31.2	-	60.0	-	122.2	-	62.2	-	
Vert.	5650.0	40.4	-	31.7	5.8	31.2	-	46.8	-	68.2	-	21.4	-	
Vert.	5700.0	40.0	-	31.8	5.8	31.2	-	46.5	-	105.2	-	58.7	-	
Vert.	5720.0	40.8	-	31.9	5.8	31.2	-	47.4	-	110.8	-	63.4	-	
Vert.	5725.0	49.1	-	31.9	5.8	31.2	-	55.6	-	122.2	-	66.6	-	

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 1 GHz.

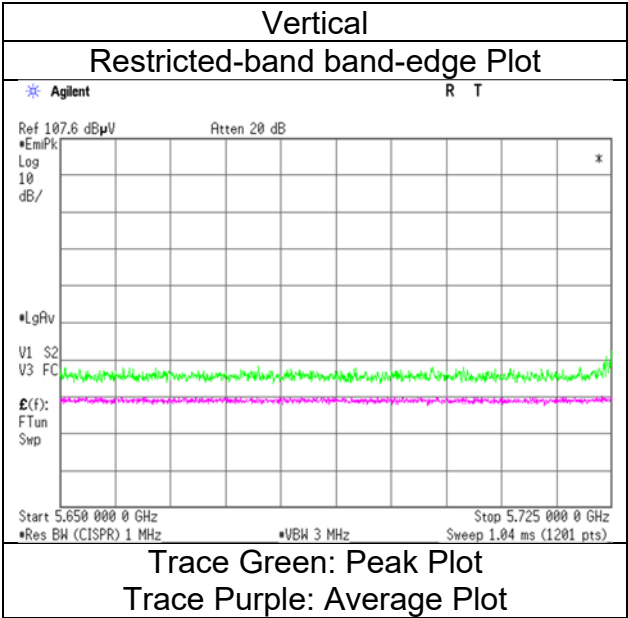
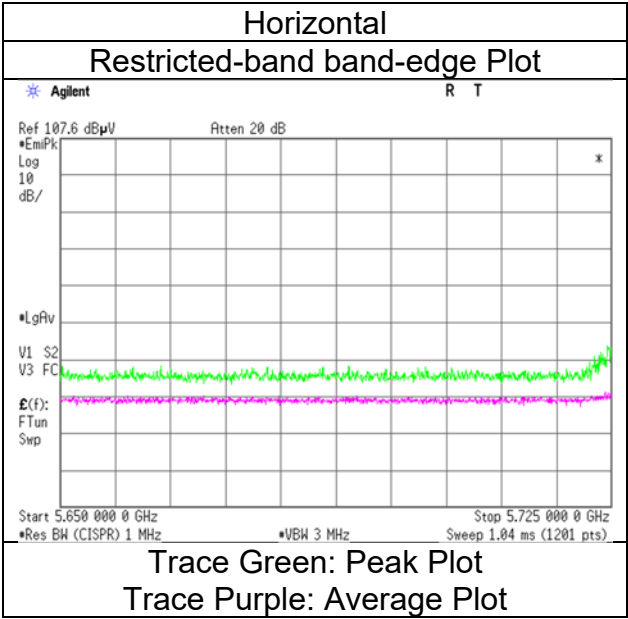
Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.3
November 1, 2024
21 deg. C / 60 % RH
Tetsuro Yoshida
(1 GHz to 6 GHz)
Tx 11ax-80 [26-tone RU/Index 0] 5775 MHz



* 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.3	No.3	No.3
Date	November 1, 2024	October 29, 2024	October 28, 2024
Temperature / Humidity	21 deg. C / 60 % RH	23 deg. C / 66 % RH	23 deg. C / 56 % RH
Engineer	Tetsuro Yoshida	Tomoya Sone	Tomoya Sone
	(1 GHz to 6 GHz)	(6 GHz to 18 GHz)	(Above 18 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 37] 5775 MHz		

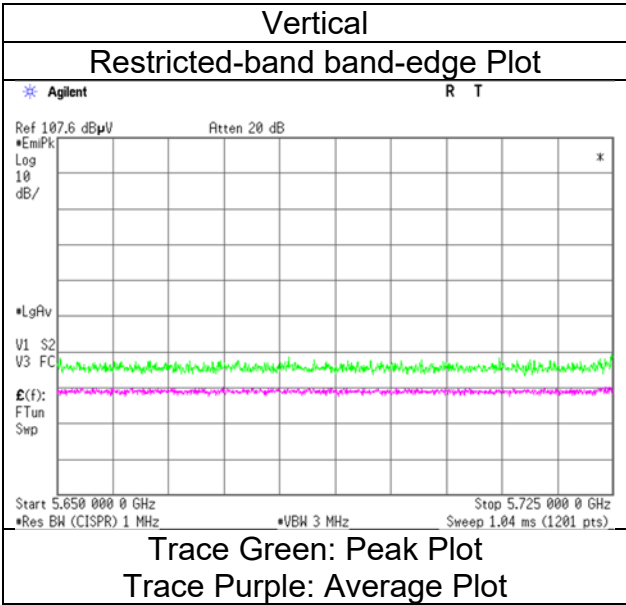
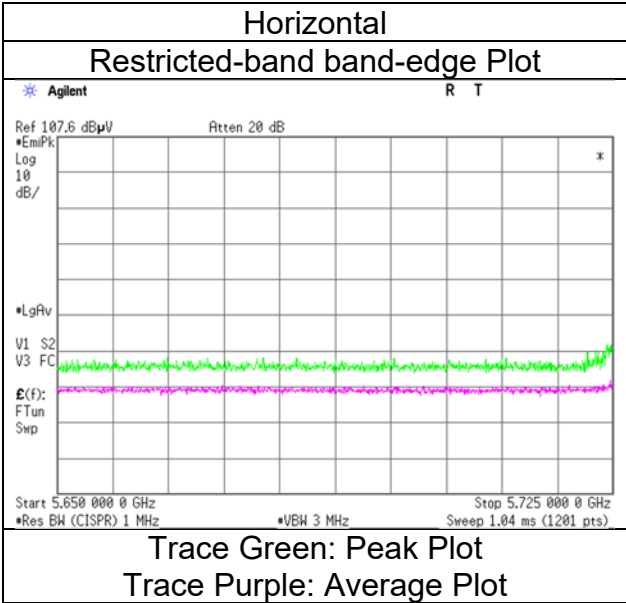
Polarity	Frequency	Reading	Reading	Ant.	Loss	Gain	Duty	Result	Result	Limit	Limit	Margin	Margin	Remark
[Hori/Vert]	[MHz]	(QP / PK)	(AV)	Factor	[dB]	[dB]	Factor	(QP / PK)	(AV)	(QP / PK)	(AV)	(QP / PK)	(AV)	
Hori.	5000.0	40.7	31.7	31.7	5.6	31.1	-	46.9	37.8	73.9	53.9	27.0	16.1	
Hori.	5650.0	40.5	-	31.7	5.8	31.2	-	46.9	-	68.2	-	21.3	-	
Hori.	5700.0	41.3	-	31.8	5.8	31.2	-	47.8	-	105.2	-	57.4	-	
Hori.	5720.0	45.5	-	31.9	5.8	31.2	-	52.0	-	110.8	-	58.8	-	
Hori.	5725.0	51.0	-	31.9	5.8	31.2	-	57.6	-	122.2	-	64.6	-	
Hori.	11550.0	41.6	33.8	37.5	-1.7	32.8	-	44.6	36.9	73.9	53.9	29.3	17.0	Floor noise
Hori.	17325.0	43.0	-	39.8	0.1	31.9	-	51.0	-	68.2	-	17.2	-	Floor noise
Vert.	5000.0	43.6	37.7	31.7	5.6	31.1	-	49.8	43.8	73.9	53.9	24.2	10.1	
Vert.	5650.0	40.1	-	31.7	5.8	31.2	-	46.5	-	68.2	-	21.7	-	
Vert.	5700.0	40.5	-	31.8	5.8	31.2	-	47.0	-	105.2	-	58.2	-	
Vert.	5720.0	42.7	-	31.9	5.8	31.2	-	49.2	-	110.8	-	61.6	-	
Vert.	5725.0	48.0	-	31.9	5.8	31.2	-	54.5	-	122.2	-	67.7	-	
Vert.	11550.0	41.5	33.7	37.5	-1.7	32.8	-	44.5	36.8	73.9	53.9	29.4	17.1	Floor noise
Vert.	17325.0	42.9	-	39.8	0.1	31.9	-	50.9	-	68.2	-	17.3	-	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.

Distance factor: 1 GHz - 6 GHz 20log (3.8 m / 3.0 m) = 2.06 dB
 6 GHz - 10 GHz 20log (4.8 m / 3.0 m) = 4.09 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.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 37] 5775 MHz



* 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.3
Date	November 1, 2024
Temperature / Humidity	21 deg. C / 60 % RH
Engineer	Tetsuro Yoshida (1 GHz to 6 GHz)
Mode	Tx 11ax-80 [106-tone RU/Index 53] 5775 MHz

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)	Remarks
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5650.0	41.1	-	31.7	5.8	31.2	-	47.5	-	68.2	-	20.7	-	
Hori.	5700.0	40.3	-	31.8	5.8	31.2	-	46.8	-	105.2	-	58.4	-	
Hori.	5720.0	45.9	-	31.9	5.8	31.2	-	52.5	-	110.8	-	58.4	-	
Hori.	5725.0	50.1	-	31.9	5.8	31.2	-	56.6	-	122.2	-	65.6	-	
Vert.	5650.0	40.3	-	31.7	5.8	31.2	-	46.7	-	68.2	-	21.5	-	
Vert.	5700.0	41.4	-	31.8	5.8	31.2	-	47.9	-	105.2	-	57.3	-	
Vert.	5720.0	41.6	-	31.9	5.8	31.2	-	48.2	-	110.8	-	62.7	-	
Vert.	5725.0	46.3	-	31.9	5.8	31.2	-	52.9	-	122.2	-	69.3	-	

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 1 GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.8 \text{ m} / 3.0 \text{ m}) = 2.06 \text{ dB}$