

RADIO TEST REPORT

(for Bluetooth classic)

Project No. : JB-Z1385
Client's Control No. : AF24012
Client : Sony Corporation
Client's Address : 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Product Name : Wireless Noise Canceling Stereo Headset
Model No. : YY2984
FCC ID : AK8YY2984
Test Standard : 47 CFR Part 15 Subpart C
Sample Receipt Date : November 26, 2024
Test Date : December 2, 2024 to December 16, 2024
Report Date : January 10, 2025
Test Result : Complied

Notice:

- * These test results relate only to the items (combination equipment, test configuration, operation condition etc.) tested.
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- * All test results are traceable to the national and / or international standards.
- * The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in Sony Global Manufacturing & Operations Corporation EMC/RF Test Laboratory.

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Note

- ☒-indicates that the listed condition, standard or equipment is applicable for this report.
☐-indicates that the listed condition, standard or equipment is not applicable for this report.

Revision History

Revision	Date	Overview	Page
JB-Z1385 (Original)	January 10, 2025	-	-

Disclaimer

This report includes the information provided by the customer as below;

- Cover page : Client and product related information
- Clause 1.1 : Description of Equipment Under Test (EUT)
- Clause 2 : Operating mode / conditions

* The laboratory is not responsible for any test results affected by the above information.

1. General Information

1.1. Description of Equipment Under Test (EUT)

General Specification

Test Sample Condition	: ☒ Prototype	☐ Pre-production	☐ Mass-production
Product Name	: Wireless Noise Canceling Stereo Headset		
Trade Name	: SONY		
Model No.	: YY2984		
Serial No.	: 1110540, 1110542, 1111034, 1111035		
Power Rating of the EUT	: DC 3.8 V (The EUT is supplied with the power from the internal battery) DC 5.0 V / 9.0 V (The EUT is supplied with the power from the USB port)		

Similar model(s) to be covered by this report

Model No. : None

Radio Specification

Function of the Equipment	: Transceiver
Operating Frequency	: 2402 - 2480 MHz
Modulation Type	: FHSS (GFSK, $\pi/4$ DQPSK, 8DPSK)
Channel Spacing	: 1 MHz
Channel Bandwidth	: 1 MHz
Number of Channels	: 79
Antenna Type	: Inverted-F Antenna
Antenna Connector Type	: None
Antenna Gain	: 2.91 dBi
Operating Temperature	: 0 to +40.0 deg.C

1.2. Summary of Test Result

[Normal]

Test Item	Test Method	Worst Margin	Results	Note
AC Power-line Conducted Emissions	Conducted	16.1 dB (QP) 0.209 MHz N	Complied	-
20 dB Bandwidth	Conducted	Refer to the test data	Complied	-
Carrier Frequency Separation	Conducted	Refer to the test data	Complied	-
Number of Hopping Frequencies	Conducted	Refer to the test data	Complied	-
Time of Occupancy (Dwell Time)	Conducted	Refer to the test data	Complied	-
Maximum Peak Conducted Output Power	Conducted	15.85 dB	Complied	-
Radiated Spurious Emissions	Radiated	14.0 dB (QP) 159.746 MHz Horizontal	Complied	-
Conducted Spurious Emissions for Band Edge	Conducted	41.44 dB 2399.99 MHz / DH5 2399.52 MHz / 3DH5	Complied	*1

[Demo]

Test Item	Test Method	Worst Margin	Results	Note
AC Power-line Conducted Emissions	Conducted	28.1 dB (QP) 0.206 MHz N	Complied	-
20 dB Bandwidth	Conducted	Refer to the test data	Complied	-
Carrier Frequency Separation	Conducted	Refer to the test data	Complied	-
Number of Hopping Frequencies	Conducted	Refer to the test data	Complied	-
Time of Occupancy (Dwell Time)	Conducted	Refer to the test data	Complied	-
Maximum Peak Conducted Output Power	Conducted	15.98 dB	Complied	-
Radiated Spurious Emissions	Radiated	15.8 dB (AV) 19840.000 MHz Vertical	Complied	-
Conducted Spurious Emissions for Band Edge	Conducted	40.95 dB 2399.52 MHz / 3DH5	Complied	*1

Note

*1: Conducted Spurious Emissions measurement was tested for the only frequencies in the non-restricted carrier band edges, since the spurious emissions in other non-restricted band were complied with Radiated Spurious Emissions measurement.

Other requirements

Part 15.31(e) Supply voltage requirement

- : Complied (The EUT was tested with a new battery.)
- : Complied (The EUT is supplied with the power from the USB port.)

Part 15.203 / 212 Antenna requirement

- : Complied (The EUT has an internal antenna which cannot be replaced by users.)

1.3. Tested Methodology

Test Standard : 47 CFR Part15 Subpart C
 Test Method : ANSI C63.10 - 2013
 KDB 558074 D01 15.247 Meas Guidance v05r02

Test Condition

AC Power-line Conducted Emissions

Dimensions of the EUT table : 0.8 m height, 2 m width and 1 m depth.

Radiated Spurious Emissions

Test Distance : ☒ 3 m ☐ 10m (9 kHz to 30 MHz)
☒ 3 m ☐ 10m (30 MHz to 1000 MHz)
☒ 3 m (1 GHz to 26.5 GHz)

Dimensions of the EUT table : 0.8 m (below 1 GHz) or 1.5 m (above 1 GHz) height, 2.0 m width and 1 m depth.

Dimensions of validated test volume : 2.5 m diameter, 3.5 m top height, 0 m bottom height.

1.4. Measurement Procedures

We performed the measurements in accordance with NV3-12, available upon the request.

- ☒ No deviation
☐ Deviation from the above procedure

The summary of the above procedure is mentioned below

AC Power-line Conducted Emissions

1. The non-conductive table (EUT table) made of (☐ FRP, ☒ Styrene Foam, ☐ other non-conductive material) was placed 0.4 m from its rear to the vertical reference ground plane.
2. The EUT was placed on the center of tabletop and its rear was flush with the rear of the table, connected through a LISN to the input power mains.
3. The LISN was placed in 80 cm from the nearest part of the EUT chassis.
4. The excess length of the AC cable between the EUT and the LISN receptacle, or an adaptor or extension cable connected to and measured with LISN, was folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
5. The connection of the all other equipment to the second LISN was performed. The second LISN was terminated with a 50-ohm terminator.
6. Interconnecting cables that hang closer than 40 cm to the horizontal reference ground plane was folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between the horizontal reference ground plane and the tabletop.
7. Find the worst mode and arrangement of the EUT according to the follows;
 - Connecting all peripherals and change the position of peripherals and cables.
 - Changing the all test operation modes of the EUT.
 - On every condition, exploring the highest emissions with the spectrum analyzer. (150 kHz to 30 MHz, peak detector, RBW: 10 kHz)
8. On the worst condition of the EUT found in above, choose the six highest emissions on the spectrum data.
 The final measurements carried out on these emissions with EMI test receiver.
 (quasi-peak and average detector, RBW: 9 kHz)

Antenna-port Conducted Measurements

1. Antenna-port of the EUT was connected to the power sensor (Maximum Peak Conducted Output Power) or the spectrum analyzer (other test items).
2. For each EUT operation mode, the Antenna-port Conducted Measurements were measured with the power sensor or the spectrum analyzer.

Test Item Antenna-port Conducted Measurements	Detector	RBW
20 dB Bandwidth	Peak	30 kHz
Carrier Frequency Separation	Peak	100 kHz
Number of Hopping Frequencies	Peak	100 kHz
Time of Occupancy (Dwell Time)	Peak	1 MHz
Maximum Peak Conducted Output Power	Peak	-
Conducted Spurious Emissions for Band Edge	Peak	100 kHz

Radiated Spurious Emissions

1. The non-conductive table (EUT table) made of (☐ FRP, ☒ Styrene Foam, ☐ other non-conductive material) was placed in the center of the turntable.
2. The EUT was placed on the center of the tabletop.
3. The test antenna was placed away from the EUT at test distance.
4. The limits were compensated the distance factor with follows;

$$9 \text{ kHz to } 490 \text{ kHz [Limit at 3 m]} = [\text{Limit at 300 m}] + 40 \log (300 [\text{m}] / 3 [\text{m}])$$

$$490 \text{ kHz to } 30 \text{ MHz [Limit at 3 m]} = [\text{Limit at 30 m}] + 40 \log (30 [\text{m}] / 3 [\text{m}])$$
5. Find the worst arrangement of the EUT according to follows;
 - Rotating the turntable and/or scanning the antenna.
 - On every condition, exploring the highest emissions with the spectrum analyzer.
(9 kHz to 26.5 GHz, peak detector)
6. On the worst arrangement of the EUT found in above, choose the six highest harmonics or spurious emissions on the spectrum data. (*excluding carrier band edges)
 The final measurements of all test operating modes carried out on these emissions as follows;

The test antenna and the turntable were performed with follows;

	9 kHz to 30 MHz	30 MHz to 1000 MHz	1 GHz to 26.5 GHz
Antenna	Loop Antenna	Bi-conical Antenna, Log-periodic Antenna	Horn Antenna
Antenna scanning range	1 m, Vertical, 360 degrees	1 m to 4 m, Horizontal and Vertical	1 m to 4 m *, Horizontal and Vertical
Turntable rotating range	360 degrees	360 degrees	360 degrees

*: When the measurement frequencies above 1 GHz, final measurements are performed keeping the antenna in the "cone of radiation" from EUT area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.

Instruments settings were carried out with follows;

	9 kHz to 90 kHz 110 kHz to 490 kHz	90 kHz to 110 kHz 490 kHz to 30 MHz	30 MHz to 1000 MHz	1 GHz to 26.5 GHz
Detector	Peak / Average	Quasi-peak	Quasi-peak	Peak / Average
RBW	200 Hz (6 dB) or 9 kHz (6 dB) *1	200 Hz (6 dB) or 9 kHz (6 dB) *1	120 kHz (6 dB)	1 MHz (6 dB)
VBW	N/A	N/A	N/A	3 MHz (for peak) 10 kHz (for average) *2
Instrument	EMI test receiver	EMI test receiver	EMI test receiver	Spectrum analyzer

*1: When the measurement frequencies below 150 kHz, RBW: 200 Hz was used.

*2: VBW setting (for average) was higher than 1/T, and up to 10 kHz. (T is the minimum transmission duration)

7. If the final measurement result exceeded the limit in non-restricted band (excluding carrier band edges), the measurement is carried out additionally with follows:

Measurement points

- Fundamental Frequency
- Frequency that exceeded the limit in non-restricted band (excluding carrier band edges)

	9 kHz to 150 kHz	150 kHz to 30 MHz	30 MHz to 26.5 GHz
Detector	Peak	Peak	Peak
RBW	300 Hz (6 dB) *	10 kHz (6 dB) *	100 kHz (6 dB)
Instrument	Spectrum analyzer	Spectrum analyzer	Spectrum analyzer

*: Correction factor of RBW was compensated to a measurement result by the following formula.

$$\text{C.F. of RBW [dB]} = 10 \cdot \log(100 \text{ kHz} / \text{used RBW})$$

Measurement points in restricted band (for average result)

- Duty Cycle Correction Factor in any 100 ms at measurement point

8. Although these tests for below 30 MHz were performed other than open field area test site, adequate comparison measurements were confirmed against 30 m open field area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

Further these test for above 1 GHz were performed test site complied with CISPR 16-1-4.

In the case of EUT size smaller than the validated test volume, the antenna position is adjusted such that the distance between the EUT and the antenna reference point is identical to the 3 m used for the S-VSWR validation measurements.

These method based on clause 7.3.1 of CISPR16-1-4 Edition 4, therefore correcting distance factor is not applied.

1.5. Test Location

Test Facility Name : Sony Global Manufacturing & Operations Corporation
EMC/RF Test Laboratory, Main Lab.
Address : 8-4 Shiomi Kisarazu-shi Chiba-ken, 292-0834, Japan
Phone : +81 438 37 2750

A2LA Certificate No. : 3203.01
Expiration : October 31, 2025

AC Power-line Conducted Emissions

Shielded Room

☒ 4th Site ☐ EMC Site

Antenna-port Conducted Measurements

Shielded Room

☒ 4th Site SR1

Radiated Spurious Emissions

Semi-Anechoic chamber

☒ 4th Site ☐ EMC Site

1.6. Uncertainty

Test Item	Frequency	4th Site SR1
Maximum Conducted Output Power	1 GHz to 8 GHz	± 0.8 dB
Conducted Spurious Emissions	below 6 GHz	± 1.0 dB

Test Item	Frequency	Distance	4th Site
AC Power-line Conducted Emissions	150 kHz to 30 MHz	-	± 3.4 dB
Radiated Emissions	9 kHz to 30 MHz	3 m	± 3.9 dB
	30 MHz to 1000 MHz	3 m	± 5.0 dB
	1 GHz to 18 GHz	3 m	± 5.0 dB
	18 GHz to 26.5 GHz	3 m	± 4.7 dB

2. Test Specification

2.1. Validation

The system was configured for testing in a typical (as a customer would normally use it).
The tests were conducted with the worst-case modes as follows.

2.2. Operating Condition

The tests have been carried out the following conditions.

[Transmitting mode]

Test Items	Test Channels	Packet Type *1 *2 *3
AC Power-line Conducted Emissions *4	2402 MHz	BDR : DH5
Radiated Spurious Emissions (below 1 GHz) *4	2402 MHz	BDR : DH5
20 dB Bandwidth, Radiated Spurious Emissions (above 1 GHz)	2402 MHz 2441 MHz 2480 MHz	BDR : DH5 EDR : 3DH5
Maximum Peak Conducted Output Power,	2402 MHz 2441 MHz 2480 MHz	BDR: DH1, DH3, DH5 EDR: 2DH1, 2DH3, 2DH5, 3DH1, 3DH3, 3DH5
Carrier Frequency Separation, Number of Hopping Frequencies, Time of Occupancy (Dwell Time)	Hopping ON	BDR : DH5 EDR : 3DH5
Conducted Spurious Emissions for Band Edge	2402 MHz	BDR : DH5 EDR : 3DH5

Note

*1: Inquiry mode was not performed based on the result of pre-compliance testing.

*2: The worst packet type has been decided based on the result of maximum duty cycle and pre-compliance testing in the actual product specification.

*3: Packet type for EDR has been decided based on the result of Maximum Peak Conducted Output Power.

*4: The test was performed with the representative mode that had been found as the worst emissions while exploratory testing.

The Software for Operating Mode

Software Name : Headset_BT_Test
Software Version : v002

2.3. Special Accessories

Special accessories needed for connecting the EUT to achieve compliance:

Item	Manufacturer	Model No.	Serial No.	Remark
-	-	-	-	-

2.4. EUT Modifications

- ☒ No equipment modification to achieve compliance to the standard levels was done during the tests.
☐ Equipment was modified to achieve compliance to the standard level as below.

Responsible Party Signature

Typed/ Print Name :
Responsible Party :
Position :
Date :

2.5. Configuration of EUT System

AC Power-line Conducted Emissions

[EUT and Associated Equipment (AE)]

Symbol	EUT/AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2984	1110540
B	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2984	1111034
C	AE	Digital Music Player*	SONY	NW-A16	1
D	AE	AC ADAPTOR*	SONY	AC-UD20	19066000379

*:The item name is based on the nameplate.

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
1	USB Cable	Cresyn	Yes	No	0.2	No
2	USB Cable & Cable with Plug	-	Yes	No	2.9	Yes
3	AC Cable	-	No	No	1.0	No

[Connecting Diagram]

[Normal]



Bluetooth
Transmitting

A: Wireless Noise Canceling Stereo Headset

D: AC ADAPTOR

1

3

AC 120 V 60 Hz

[Demo]



Bluetooth
Transmitting

C: Digital Music Player

B: Wireless Noise Canceling Stereo Headset

D: AC ADAPTOR

2

3

AC 120 V 60 Hz

Antenna-port Conducted Measurements

[EUT and Associated Equipment (AE)]

Symbol	EUT/AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2984	1110542
B	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2984	1111035
C	AE	Digital Music Player*	SONY	NW-A16	1
D	AE	AC ADAPTOR*	SONY	AC-UD20	19066000379

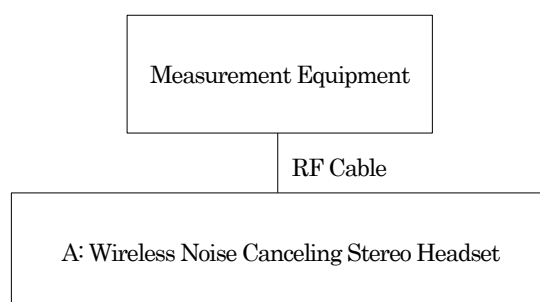
*The item name is based on the nameplate.

[Type of Cable]

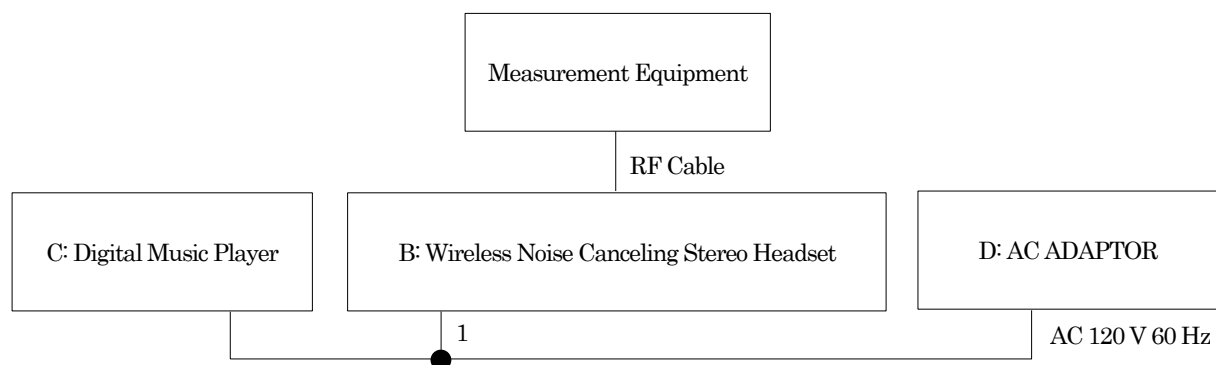
Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
1	USB Cable & Cable with Plug	-	Yes	No	2.9	No

[Connecting Diagram]

[Normal]



[Demo]



Radiated Spurious Emissions

[EUT and Associated Equipment (AE)]

Symbol	EUT/AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2984	1110540
B	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2984	1111034
C	AE	Digital Music Player*	SONY	NW-A16	1
D	AE	AC ADAPTOR*	SONY	AC-UD20	19066000379

*The item name is based on the nameplate.

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
1	USB Cable & Cable with Plug	-	Yes	No	2.9	No

[Connecting Diagram]

[Normal]

Bluetooth
Transmitting

A: Wireless Noise Canceling Stereo Headset

[Demo]

Bluetooth
Transmitting

C: Digital Music Player

B: Wireless Noise Canceling Stereo Headset

D: AC ADAPTOR

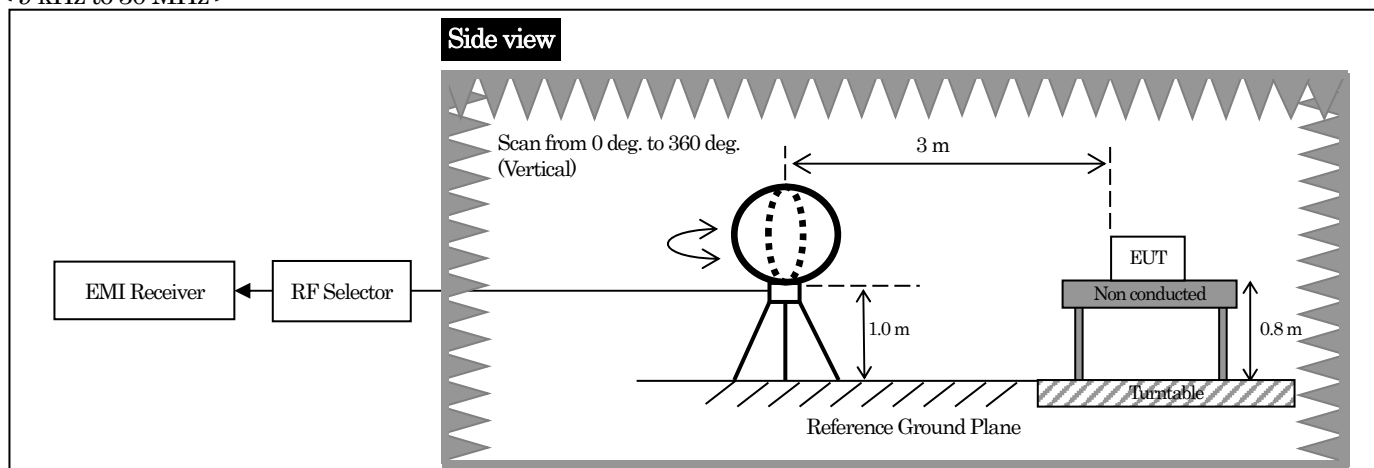
1

AC 120 V 60 Hz

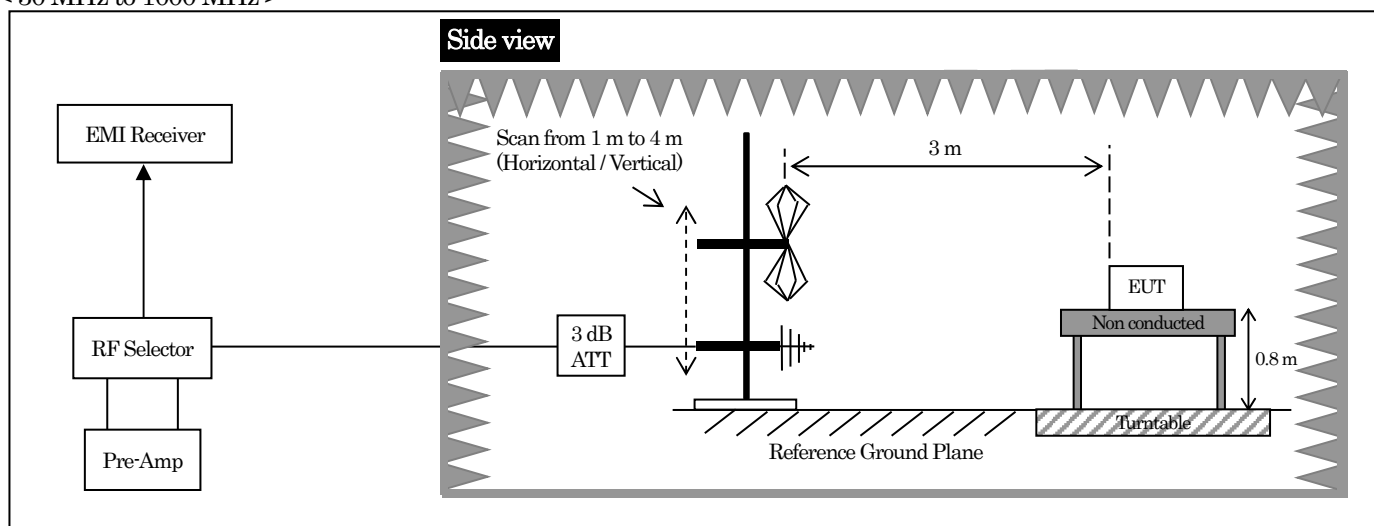
2.6. Typical setup arrangement

Radiated spurious emissions

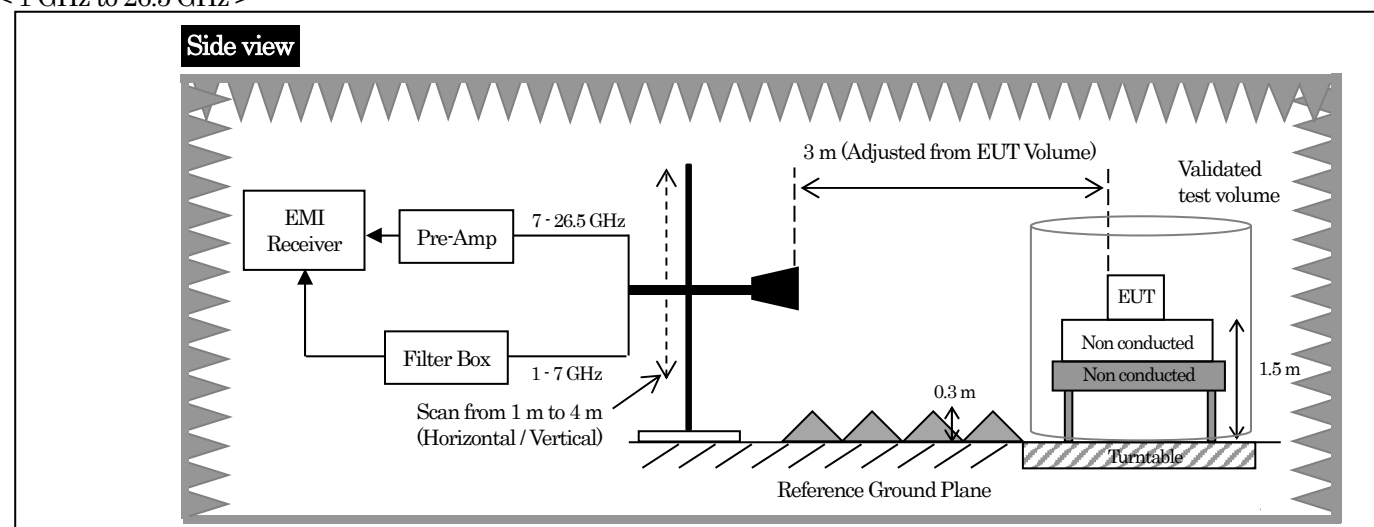
< 9 kHz to 30 MHz >



< 30 MHz to 1000 MHz >



< 1 GHz to 26.5 GHz >



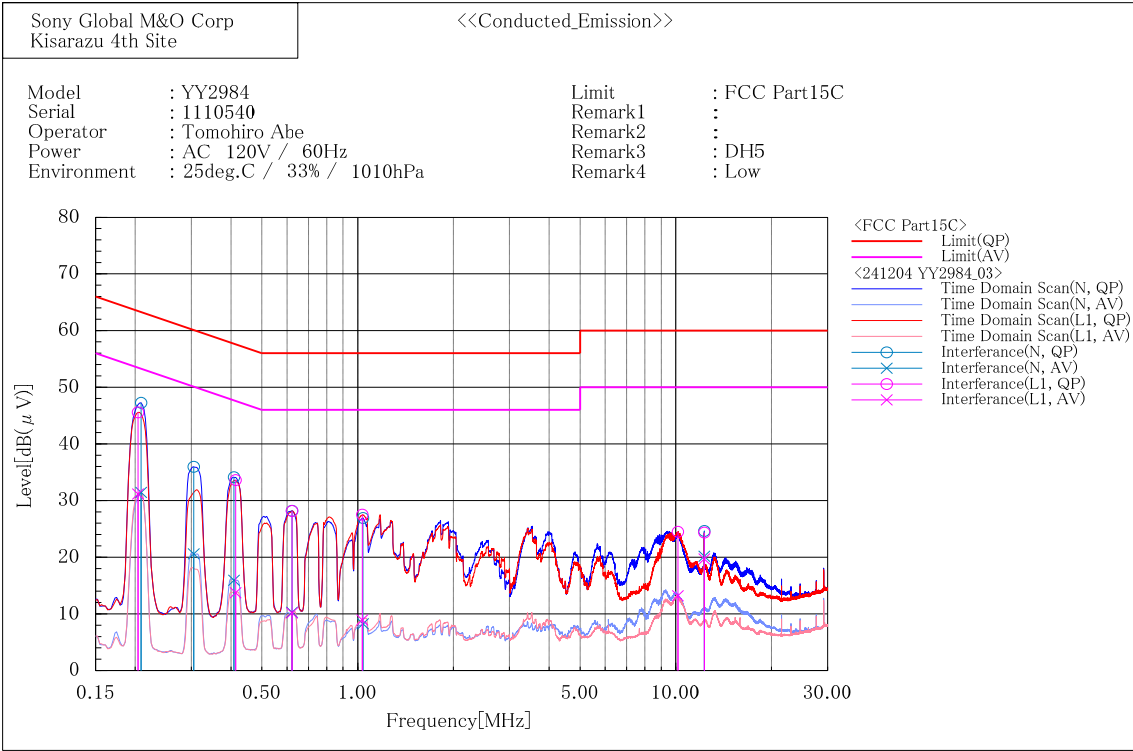
3. Test Data

3.1. AC Power-line Conducted Emissions

[Normal]

Date of measurement	Ambient temperature	Relative humidity	Measured by
December 4, 2024	25.0 deg.C	33.0 %	Tomohiro Abe

[BDR / 2402 MHz]



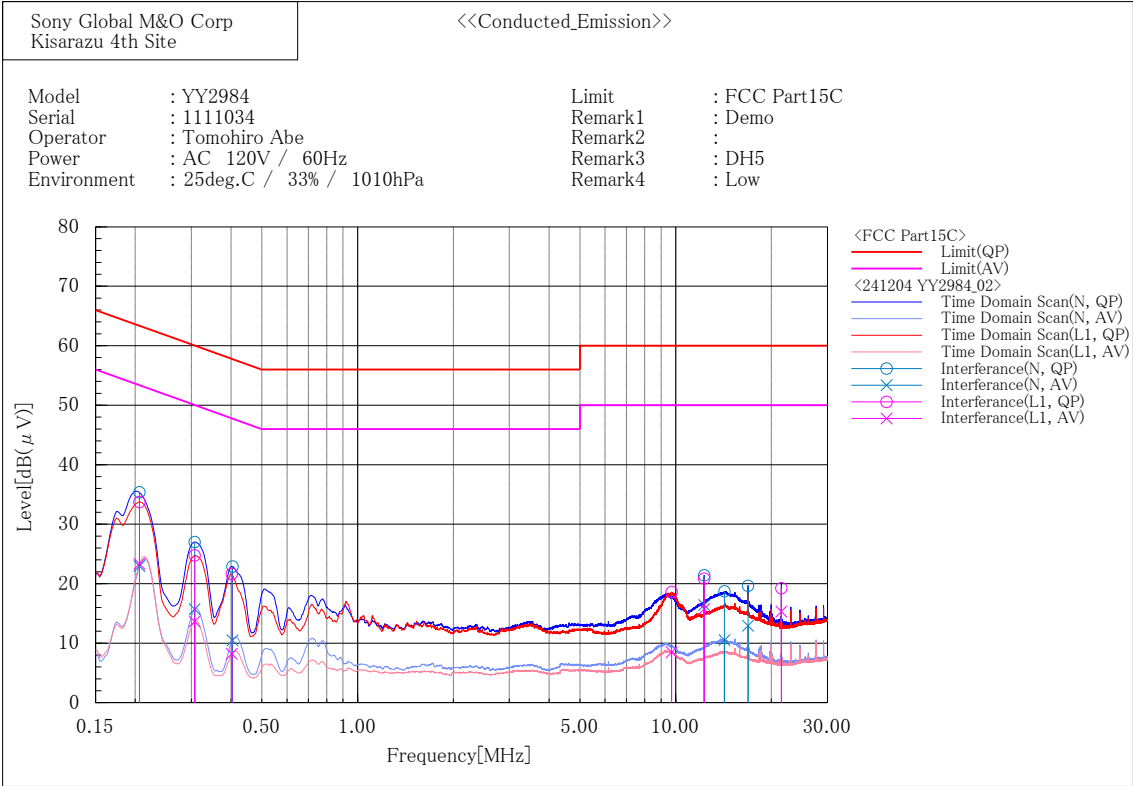
Final Result

--- N ---									
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	QP [dB]
1	0.209	37.5	21.7	9.7	47.2	31.4	63.3	53.3	16.1
2	0.305	26.3	10.9	9.7	36.0	20.6	60.1	50.1	24.1
3	0.409	24.4	6.2	9.7	34.1	15.9	57.7	47.7	23.6
4	0.623	18.5	0.6	9.7	28.2	10.3	56.0	46.0	27.8
5	1.039	17.2	-1.5	9.7	26.9	8.2	56.0	46.0	29.1
6	12.289	14.4	9.9	10.2	24.6	20.1	60.0	50.0	35.4
--- L1 ---									
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	QP [dB]
1	0.204	35.9	21.5	9.7	45.6	31.2	63.4	53.4	17.8
2	0.413	23.9	4.0	9.7	33.6	13.7	57.6	47.6	24.0
3	0.623	18.5	0.4	9.7	28.2	10.1	56.0	46.0	27.8
4	1.034	17.7	-0.9	9.8	27.5	8.9	56.0	46.0	28.5
5	10.156	14.3	3.0	10.2	24.5	13.2	60.0	50.0	35.5
6	12.289	14.1	9.4	10.2	24.3	19.6	60.0	50.0	35.7

[Demo]

Date of measurement	Ambient temperature	Relative humidity	Measured by
December 4, 2024	25.0 deg.C	33.0 %	Tomohiro Abe

[BDR / 2402 MHz]



Final Result

--- N ---										
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.206	25.6	13.2	9.7	35.3	22.9	63.4	53.4	28.1	30.5
2	0.308	17.3	6.0	9.7	27.0	15.7	60.0	50.0	33.0	34.3
3	0.404	13.2	0.8	9.7	22.9	10.5	57.8	47.8	34.9	37.3
4	12.289	11.2	6.2	10.2	21.4	16.4	60.0	50.0	38.6	33.6
5	14.231	8.4	0.2	10.3	18.7	10.5	60.0	50.0	41.3	39.5
6	16.897	9.2	2.5	10.4	19.6	12.9	60.0	50.0	40.4	37.1

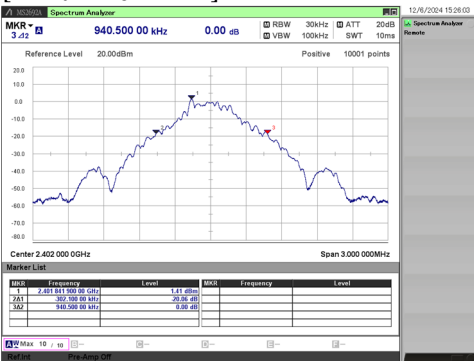
--- L1 ---										
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.206	24.0	13.6	9.7	33.7	23.3	63.4	53.4	29.7	30.1
2	0.308	15.1	3.9	9.7	24.8	13.6	60.0	50.0	35.2	36.4
3	0.402	11.9	-1.5	9.7	21.6	8.2	57.8	47.8	36.2	39.6
4	9.719	8.4	-1.7	10.2	18.6	8.5	60.0	50.0	41.4	41.5
5	12.289	10.6	5.5	10.2	20.8	15.7	60.0	50.0	39.2	34.3
6	21.505	8.8	4.9	10.4	19.2	15.3	60.0	50.0	40.8	34.7

3.2. 20 dB Bandwidth
[Normal]

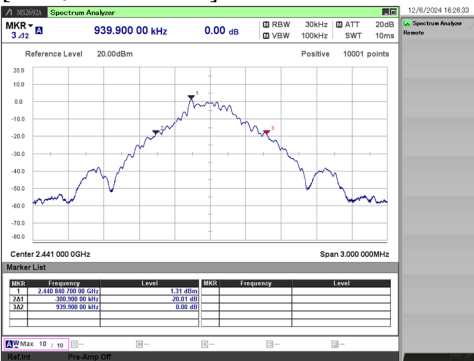
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 6, 2024	24.2 deg.C	40.2 %	Mikiko Kouga

Mode		Channel [MHz]	Result [MHz]	Limit [MHz]
BDR	DH5	2402	0.941	-
		2441	0.940	-
		2480	0.941	-
EDR	3DH5	2402	1.248	-
		2441	1.248	-
		2480	1.248	-

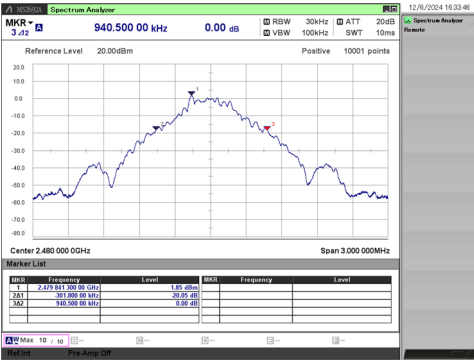
[BDR / 2402 MHz]



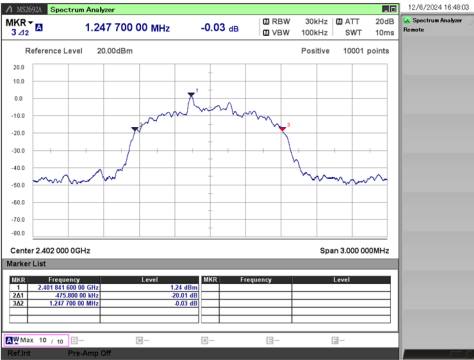
[BDR / 2441 MHz]



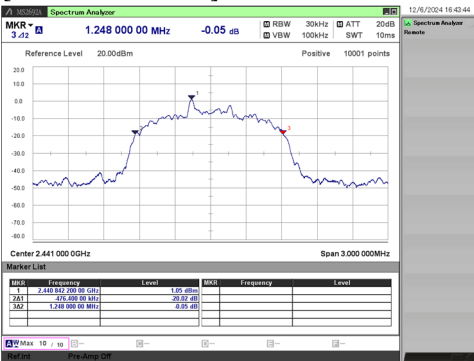
[BDR / 2480 MHz]



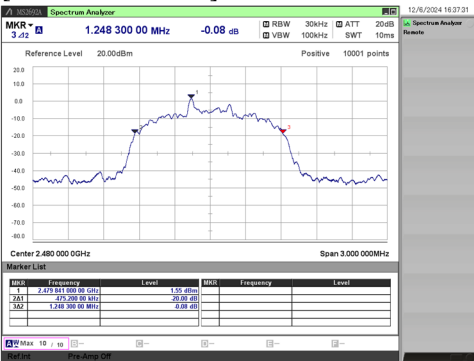
[EDR / 2402 MHz]



[EDR / 2441 MHz]



[EDR / 2480 MHz]

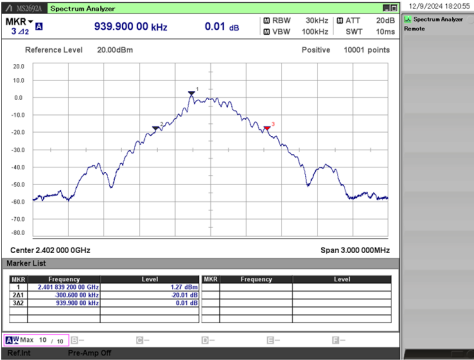


[Demo]

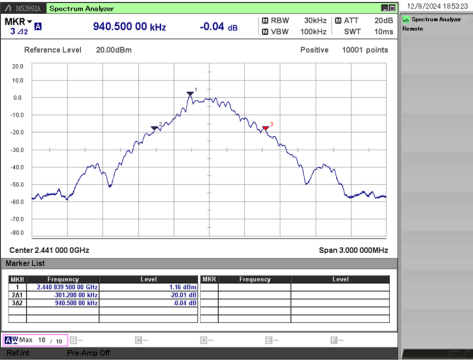
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 9, 2024	24.1 deg.C	38.2 %	Mikiko Kouga

Mode		Channel [MHz]	Result [MHz]	Limit [MHz]
BDR	DH5	2402	0.940	-
		2441	0.941	-
		2480	0.940	-
EDR	3DH5	2402	1.247	-
		2441	1.247	-
		2480	1.247	-

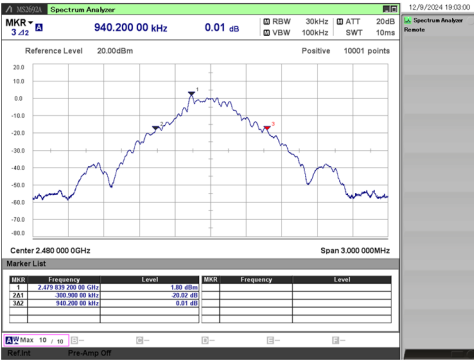
[BDR / 2402 MHz]



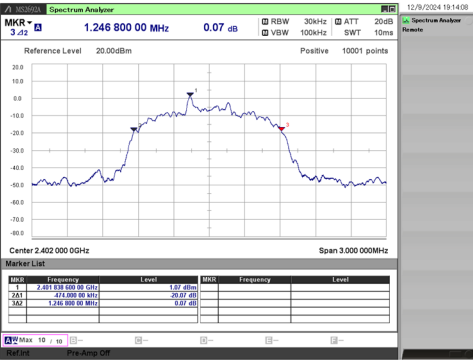
[BDR / 2441 MHz]



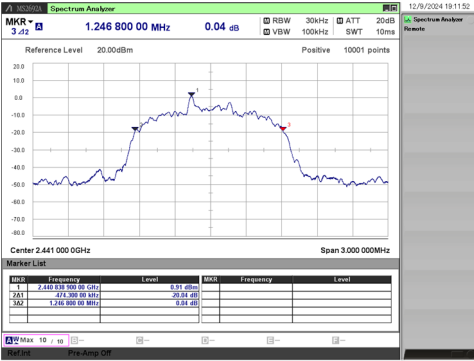
[BDR / 2480 MHz]



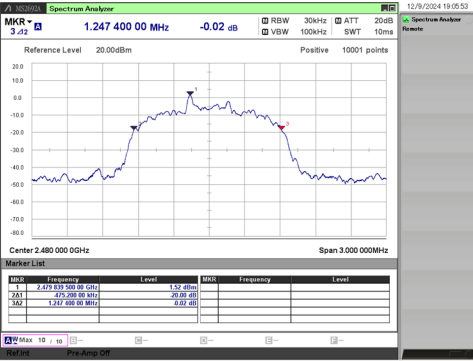
[EDR / 2402 MHz]



[EDR / 2441 MHz]



[EDR / 2480 MHz]

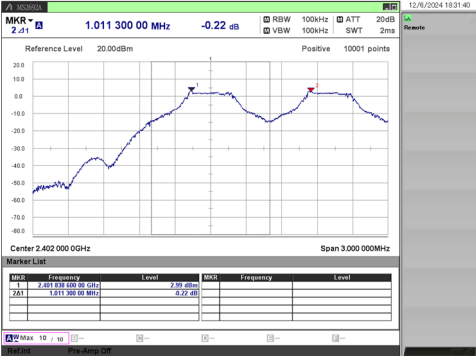


3.3. Carrier Frequency Separation
[Normal]

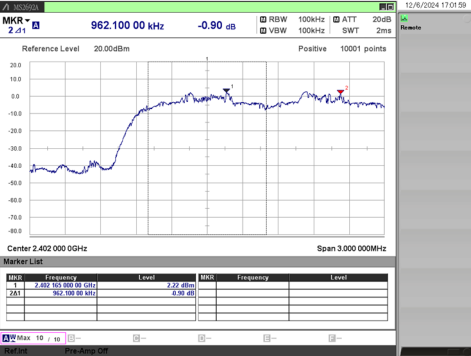
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 6, 2024	24.2 deg.C	40.2 %	Mikiko Kouga

Mode		Reading [kHz]	Limit [kHz]
BDR	DH5	1011.3	≥ 627.0
EDR	3DH5	962.1	≥ 832.2

[BDR]



[EDR]

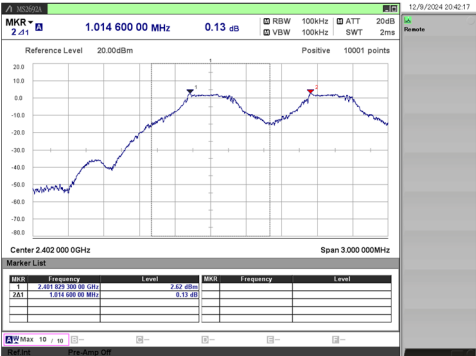


[Demo]

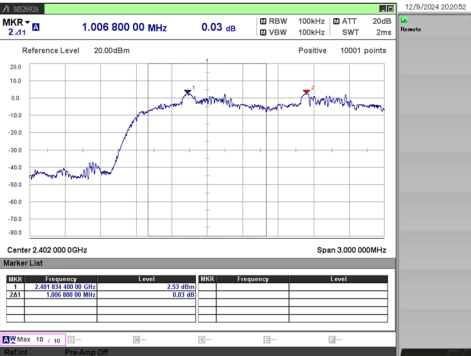
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 9, 2024	24.1 deg.C	38.2 %	Mikiko Kouga

Mode		Reading [kHz]	Limit [kHz]
BDR	DH5	1014.6	≥ 627.0
EDR	3DH5	1006.8	≥ 831.6

[BDR]



[EDR]

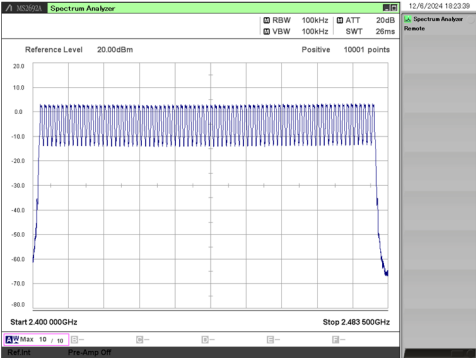


3.4. Number of Hopping Frequencies
[Normal]

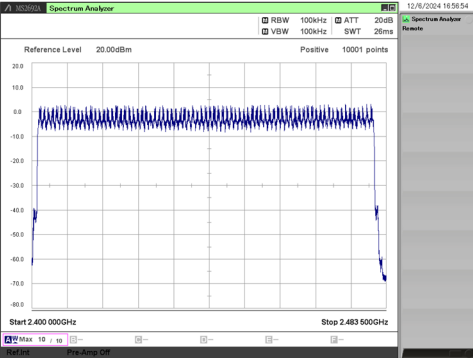
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 6, 2024	24.2 deg.C	40.2 %	Mikiko Kouga

Mode		Number [channel]	Limit [channel]
BDR	DH5	79	≥ 15
EDR	3DH5	79	≥ 15

[BDR]



[EDR]

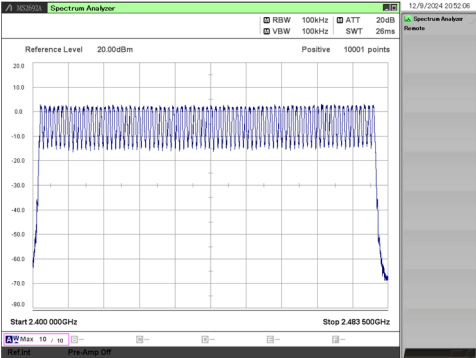


[Demo]

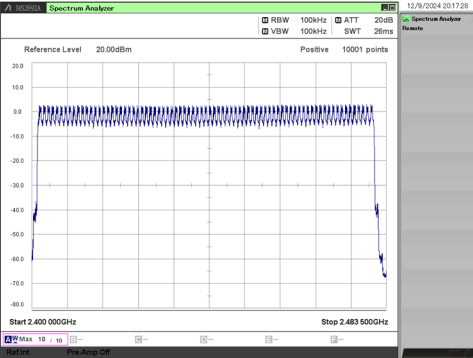
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 9, 2024	24.1 deg.C	38.2 %	Mikiko Kouga

Mode		Number [channel]	Limit [channel]
BDR	DH5	79	≥ 15
EDR	3DH5	79	≥ 15

[BDR]



[EDR]

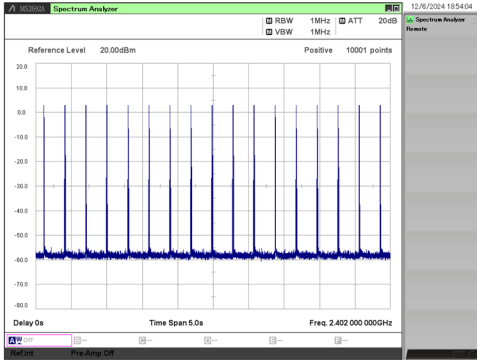
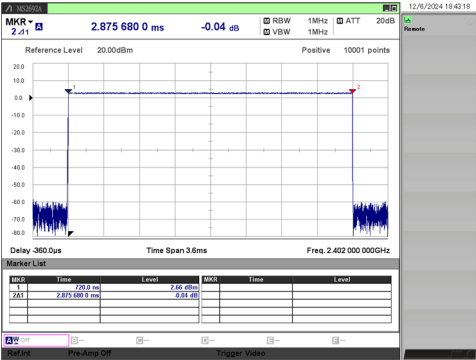


3.5. Time of Occupancy (Dwell Time)
[Normal]

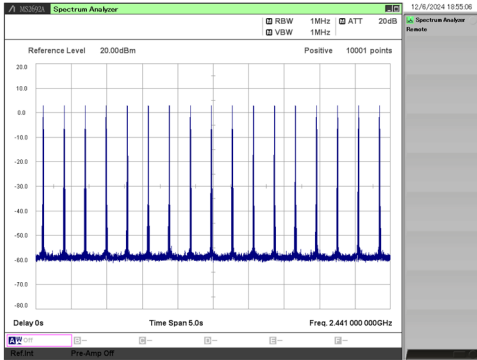
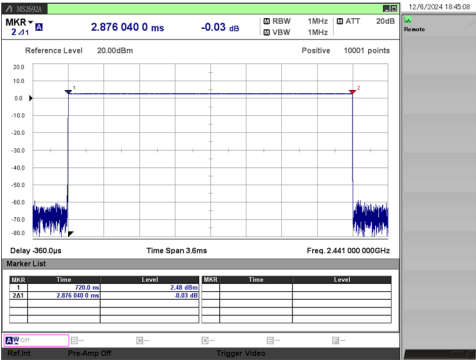
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 6, 2024	24.2 deg.C	40.2 %	Mikiko Kouga
December 16, 2024	22.6 deg.C	34.5 %	Mikiko Kouga

Mode		Channel [MHz]	Dwell Time [msec]	Cycle [time]	Result [msec]	Limit [msec]
BDR	DH5	2402	2.88	17.0	309.0	≤ 400.0
		2441	2.88	17.0	309.0	≤ 400.0
		2480	2.88	17.0	309.0	≤ 400.0
EDR	3DH5	2402	2.88	17.0	309.4	≤ 400.0
		2441	2.88	17.0	309.4	≤ 400.0
		2480	2.88	17.0	309.4	≤ 400.0

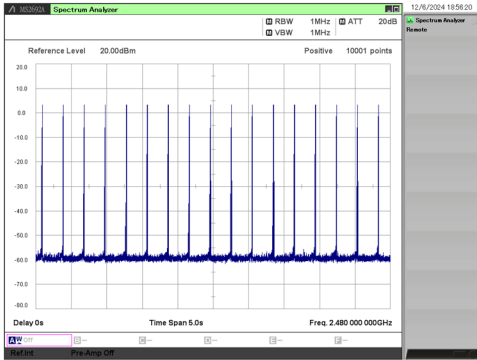
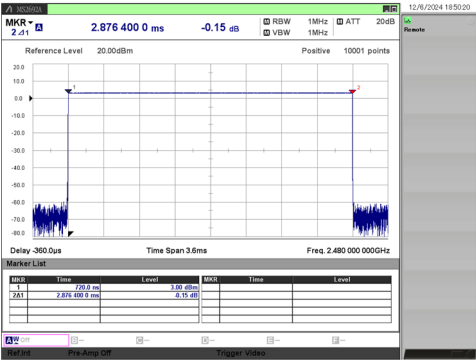
[BDR / 2402 MHz]



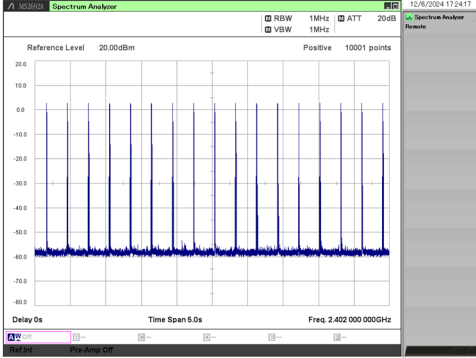
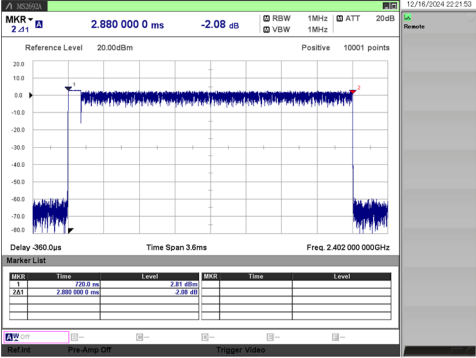
[BDR / 2441 MHz]



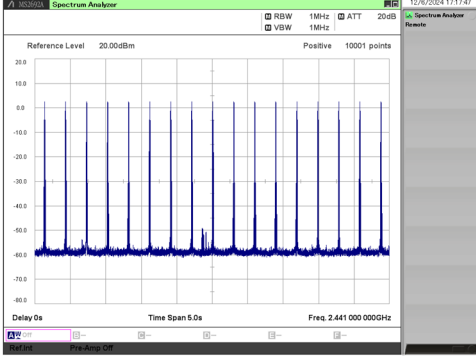
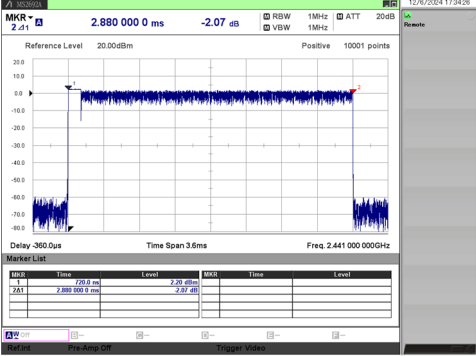
[BDR / 2480 MHz]



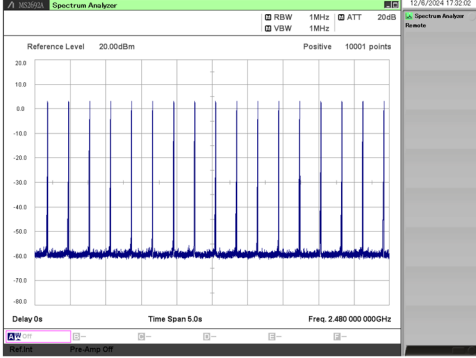
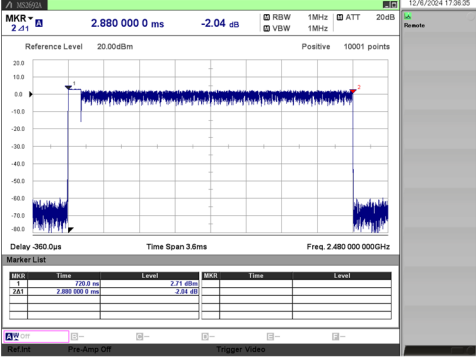
[EDR / 2402 MHz]



[EDR / 2441 MHz]



[EDR / 2480 MHz]

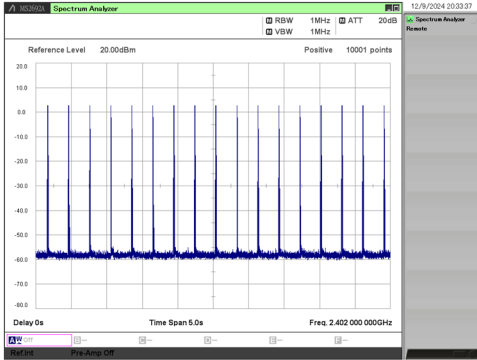
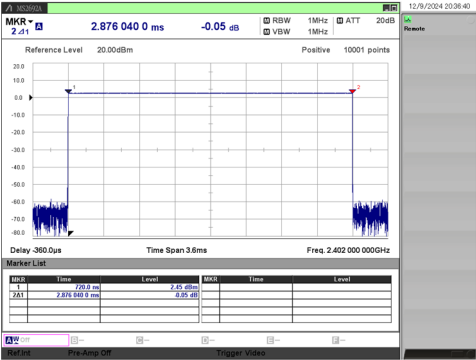


[Demo]

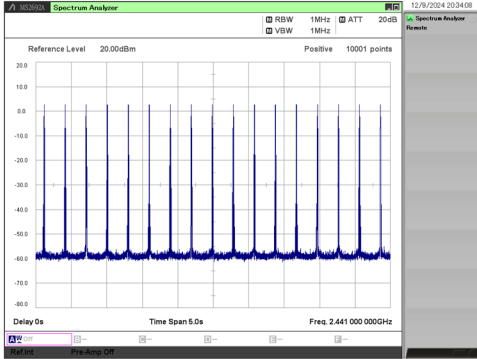
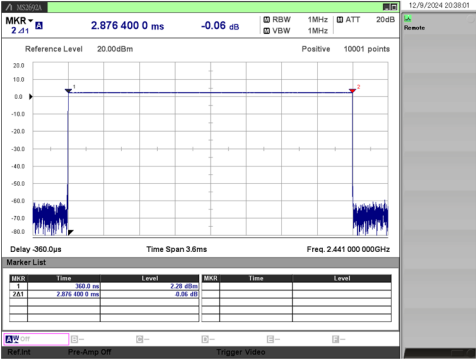
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 9, 2024	24.1 deg.C	38.2 %	Mikiko Kouga

Mode		Channel [MHz]	Dwell Time [msec]	Cycle [time]	Result [msec]	Limit [msec]
BDR	DH5	2402	2.88	17.0	309.0	≤ 400.0
		2441	2.88	17.0	309.0	≤ 400.0
		2480	2.88	17.0	309.0	≤ 400.0
EDR	3DH5	2402	2.88	17.0	309.4	≤ 400.0
		2441	2.88	17.0	309.4	≤ 400.0
		2480	2.88	17.0	309.4	≤ 400.0

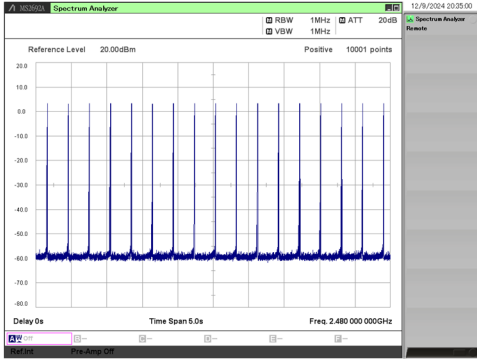
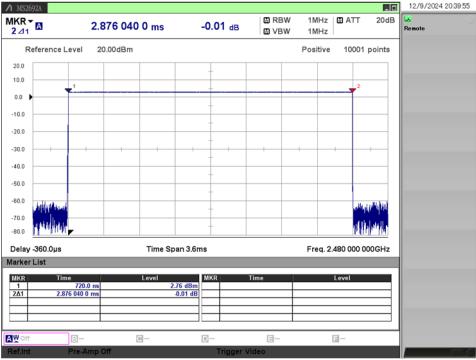
[BDR / 2402 MHz]



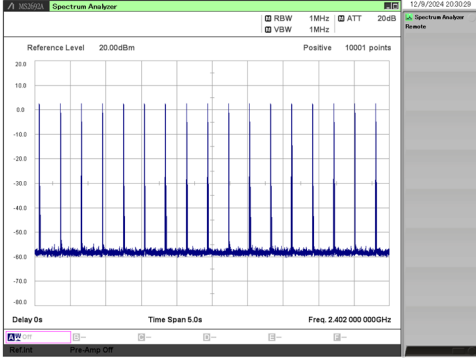
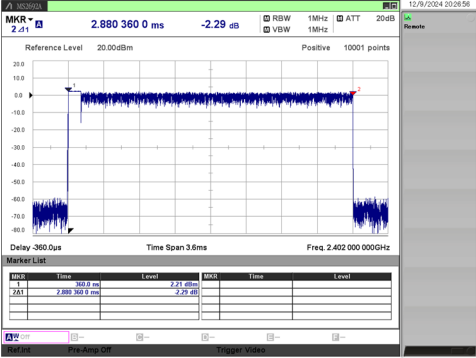
[BDR / 2441 MHz]



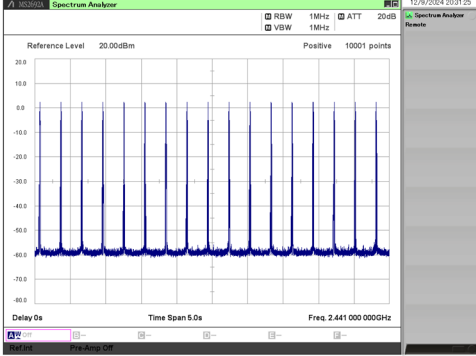
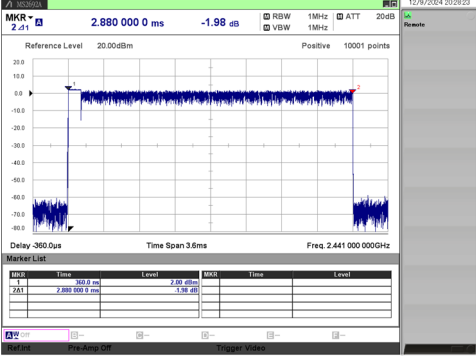
[BDR / 2480 MHz]



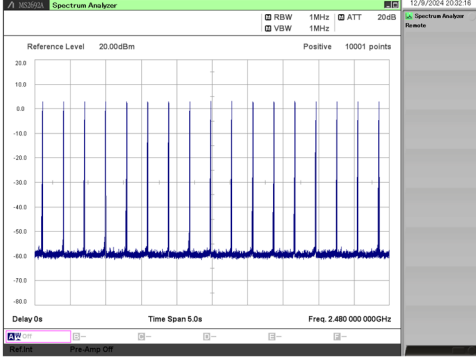
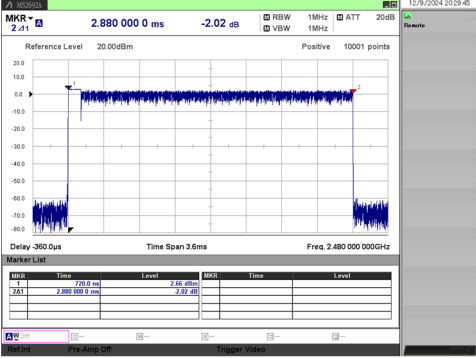
[EDR / 2402 MHz]



[EDR / 2441 MHz]



[EDR / 2480 MHz]



3.6. Maximum Peak Conducted Output Power
[Normal]

Date of measurement	Ambient temperature	Relative humidity	Measured by
December 2, 2024	21.2 deg.C	47.4 %	Mikiko Kouga

Maximum Peak Conducted Output Power

Mode	Rate [Mbps]	Ch. [MHz]	Reading (PK) [dBm]	C.F. [dB]	Ant. Gain [dBi]	Conducted Output Power					Equivalent Isotropically Radiated Power (for RSS-247)				
						Result (PK) [dBm]	Result (PK) [W]	Limit [dBm]	Limit [W]	Margin [dB]	Result (PK) [dBm]	Result (PK) [W]	Limit [dBm]	Limit [W]	Margin [dB]
BDR	DH5	2402	3.48	1.50	2.91	4.98	0.00315	≤ 20.97	≤ 0.125	15.99	7.89	0.00615	≤ 36.02	≤ 4.00	28.13
		2441	3.45	1.50	2.91	4.95	0.00313	≤ 20.97	≤ 0.125	16.02	7.86	0.00611	≤ 36.02	≤ 4.00	28.16
		2480	3.62	1.50	2.91	5.12	0.00325	≤ 20.97	≤ 0.125	15.85	8.03	0.00635	≤ 36.02	≤ 4.00	27.99
EDR	2DH5	2402	3.18	1.50	2.91	4.68	0.00294	≤ 20.97	≤ 0.125	16.29	7.59	0.00574	≤ 36.02	≤ 4.00	28.43
		2441	3.20	1.50	2.91	4.70	0.00295	≤ 20.97	≤ 0.125	16.27	7.61	0.00577	≤ 36.02	≤ 4.00	28.41
		2480	3.36	1.50	2.91	4.86	0.00306	≤ 20.97	≤ 0.125	16.11	7.77	0.00598	≤ 36.02	≤ 4.00	28.25
	3DH5	2402	3.39	1.50	2.91	4.89	0.00308	≤ 20.97	≤ 0.125	16.08	7.80	0.00603	≤ 36.02	≤ 4.00	28.22
		2441	3.30	1.50	2.91	4.80	0.00302	≤ 20.97	≤ 0.125	16.17	7.71	0.0059	≤ 36.02	≤ 4.00	28.31
		2480	3.46	1.50	2.91	4.96	0.00313	≤ 20.97	≤ 0.125	16.01	7.87	0.00612	≤ 36.02	≤ 4.00	28.15

Duty Cycle check

Mode		Channel [MHz]	T(on+off) [msec]	T(on) [msec]	Duty Cycle [%]
BDR	DH1	2441	1.250	0.373	29.84
	DH3	2441	2.500	1.629	65.16
	DH5	2441	3.750	2.878	76.73
EDR	2DH1	2441	1.250	0.378	30.26
	2DH3	2441	2.500	1.631	65.22
	2DH5	2441	3.750	2.878	76.75
	3DH1	2441	1.250	0.378	30.27
	3DH3	2441	2.500	1.630	65.18
	3DH5	2441	3.750	2.881	76.81

[Demo]

Date of measurement	Ambient temperature	Relative humidity	Measured by
December 2, 2024	21.2 deg.C	47.4 %	Mikiko Kouga

Maximum Peak Conducted Output Power

Mode	Rate [Mbps]	Ch. [MHz]	Reading (PK) [dBm]	C.F. [dB]	Ant. Gain [dBi]	Conducted Output Power					Equivalent Isotropically Radiated Power (for RSS-247)				
						Result (PK) [dBm]	Result (PK) [W]	Limit [dBm]	Limit [W]	Margin [dB]	Result (PK) [dBm]	Result (PK) [W]	Limit [dBm]	Limit [W]	Margin [dB]
BDR	DH5	2402	3.20	1.50	2.91	4.70	0.00295	≤ 20.97	≤ 0.125	16.27	7.61	0.00577	≤ 36.02	≤ 4.00	28.41
		2441	3.25	1.50	2.91	4.75	0.00299	≤ 20.97	≤ 0.125	16.22	7.66	0.00583	≤ 36.02	≤ 4.00	28.36
		2480	3.49	1.50	2.91	4.99	0.00316	≤ 20.97	≤ 0.125	15.98	7.90	0.00617	≤ 36.02	≤ 4.00	28.12
EDR	2DH5	2402	3.00	1.50	2.91	4.50	0.00282	≤ 20.97	≤ 0.125	16.47	7.41	0.00551	≤ 36.02	≤ 4.00	28.61
		2441	3.00	1.50	2.91	4.50	0.00282	≤ 20.97	≤ 0.125	16.47	7.41	0.00551	≤ 36.02	≤ 4.00	28.61
		2480	3.25	1.50	2.91	4.75	0.00299	≤ 20.97	≤ 0.125	16.22	7.66	0.00583	≤ 36.02	≤ 4.00	28.36
	3DH5	2402	3.16	1.50	2.91	4.66	0.00292	≤ 20.97	≤ 0.125	16.31	7.57	0.00571	≤ 36.02	≤ 4.00	28.45
		2441	3.18	1.50	2.91	4.68	0.00294	≤ 20.97	≤ 0.125	16.29	7.59	0.00574	≤ 36.02	≤ 4.00	28.43
		2480	3.39	1.50	2.91	4.89	0.00308	≤ 20.97	≤ 0.125	16.08	7.80	0.00603	≤ 36.02	≤ 4.00	28.22

Duty Cycle check

Mode		Channel [MHz]	T(on+off) [msec]	T(on) [msec]	Duty Cycle [%]
BDR	DH1	2441	1.250	0.373	29.84
	DH3	2441	2.500	1.628	65.10
	DH5	2441	3.750	2.875	76.66
EDR	2DH1	2441	1.250	0.378	30.26
	2DH3	2441	2.500	1.631	65.22
	2DH5	2441	3.750	2.878	76.75
	3DH1	2441	1.250	0.378	30.27
	3DH3	2441	2.500	1.630	65.18
	3DH5	2441	3.750	2.881	76.81

3.7. Radiated Spurious Emissions

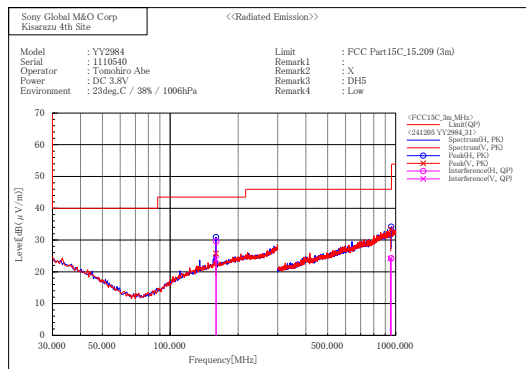
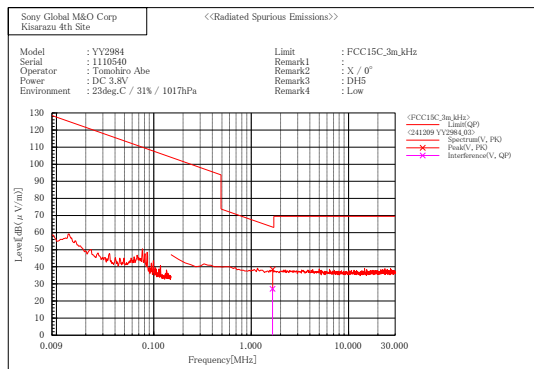
[Normal]

Measurement band	Date of measurement	Ambient temperature	Relative humidity	Measured by
9 kHz to 1000 MHz	December 5, 2024	23.0 deg.C	38.0 %	Tomohiro Abe
	December 9, 2024	23.0 deg.C	31.0 %	Tomohiro Abe
1 GHz to 7 GHz	December 2, 2024	24.0 deg.C	41.0 %	Tomohiro Abe
	December 3, 2024	23.0 deg.C	39.0 %	Mikiko Kouga
	December 4, 2024	24.0 deg.C	40.0 %	Mikiko Kouga
7 GHz to 18 GHz	December 4, 2024	24.0 deg.C	40.0 %	Mikiko Kouga
18 GHz to 26.5 GHz	December 5, 2024	23.0 deg.C	38.0 %	Mikiko Kouga

9 kHz to 1000 MHz

[BDR (DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position
159.746	QP	H	40.7	-11.2	29.5	43.5	14.0	184.0	177.7	X
955.916	QP	H	24.7	-0.4	24.3	46.0	21.7	206.0	36.7	X
1.660	QP	V	7.5	19.6	27.1	63.2	36.1	100.0	13.9	X
159.741	QP	V	35.2	-11.2	24.0	43.5	19.5	100.0	258.0	X
948.220	QP	V	24.7	-0.5	24.2	46.0	21.8	382.7	64.3	X



1 GHz to 26.5 GHz

* Although "Height" in radiated emissions data, which shows the height of the boom of the antenna mast, might exceed 400.0 cm. because of the antenna tilt positioner attached to the edge of the boom for the bore-sighting measurement, the height of the reference point of the antenna does not exceed 400.0 cm.

[BDR (DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.0	-6.4	36.6	≤ 54.0	17.4	100.0	101.0	X	10.0
2390.000	PK	H	53.2	-6.4	46.8	≤ 74.0	27.2	100.0	101.0	X	-
4804.000	AV	H	34.6	-2.1	32.5	≤ 54.0	21.5	204.0	118.0	X	10.0
4804.000	PK	H	44.5	-2.1	42.4	≤ 74.0	31.6	204.0	118.0	X	-
14412.000	AV	H	39.4	-5.3	34.1	≤ 54.0	19.9	241.0	98.0	X	10.0
14412.000	PK	H	49.4	-5.3	44.1	≤ 74.0	29.9	241.0	98.0	X	-
19216.000	AV	H	38.1	-0.2	37.9	≤ 54.0	16.1	119.0	111.0	X	10.0
19216.000	PK	H	48.4	-0.2	48.2	≤ 74.0	25.8	119.0	111.0	X	-
2390.000	AV	V	43.0	-6.4	36.6	≤ 54.0	17.4	178.0	144.0	X	10.0
2390.000	PK	V	52.8	-6.4	46.4	≤ 74.0	27.6	178.0	144.0	X	-
4804.000	AV	V	34.0	-2.1	31.9	≤ 54.0	22.1	248.0	129.0	X	10.0
4804.000	PK	V	44.1	-2.1	42.0	≤ 74.0	32.0	248.0	129.0	X	-
12010.000	AV	V	38.9	-5.9	33.0	≤ 54.0	21.0	211.0	128.0	X	10.0
12010.000	PK	V	48.8	-5.9	42.9	≤ 74.0	31.1	211.0	128.0	X	-
21618.000	AV	V	38.1	-1.0	37.1	≤ 54.0	16.9	200.0	88.0	X	10.0
21618.000	PK	V	47.4	-1.0	46.4	≤ 74.0	27.6	200.0	88.0	X	-

[BDR (DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4882.000	AV	H	34.0	-1.9	32.1	≤ 54.0	21.9	212.0	141.0	X	10.0
4882.000	PK	H	44.1	-1.9	42.2	≤ 74.0	31.8	212.0	141.0	X	-
9764.000	AV	H	36.9	-6.8	30.1	≤ 54.0	23.9	214.0	104.0	X	10.0
9764.000	PK	H	46.6	-6.8	39.8	≤ 74.0	34.2	214.0	104.0	X	-
14646.000	AV	H	38.6	-5.2	33.4	≤ 54.0	20.6	112.0	108.0	X	10.0
14646.000	PK	H	49.1	-5.2	43.9	≤ 74.0	30.1	112.0	108.0	X	-
21969.000	AV	H	38.4	-1.2	37.2	≤ 54.0	16.8	104.0	109.0	X	10.0
21969.000	PK	H	48.0	-1.2	46.8	≤ 74.0	27.2	104.0	109.0	X	-
4882.000	AV	V	33.5	-1.9	31.6	≤ 54.0	22.4	265.0	116.0	X	10.0
4882.000	PK	V	43.8	-1.9	41.9	≤ 74.0	32.1	265.0	116.0	X	-
7323.000	AV	V	40.2	-9.0	31.2	≤ 54.0	22.8	270.0	156.0	X	10.0
7323.000	PK	V	49.5	-9.0	40.5	≤ 74.0	33.5	270.0	156.0	X	-
12205.000	AV	V	38.8	-6.0	32.8	≤ 54.0	21.2	298.0	140.0	X	10.0
12205.000	PK	V	48.6	-6.0	42.6	≤ 74.0	31.4	298.0	140.0	X	-
24410.000	AV	V	39.1	-1.9	37.2	≤ 54.0	16.8	398.0	122.0	X	10.0
24410.000	PK	V	48.5	-1.9	46.6	≤ 74.0	27.4	398.0	122.0	X	-

[BDR (DH5) / 2480 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	43.2	-6.0	37.2	≤ 54.0	16.8	136.0	45.0	X	10.0
2483.500	PK	H	53.0	-6.0	47.0	≤ 74.0	27.0	136.0	45.0	X	-
4960.000	AV	H	34.1	-1.6	32.5	≤ 54.0	21.5	260.0	111.0	X	10.0
4960.000	PK	H	43.8	-1.6	42.2	≤ 74.0	31.8	260.0	111.0	X	-
14880.000	AV	H	38.8	-5.2	33.6	≤ 54.0	20.4	242.0	118.0	X	10.0
14880.000	PK	H	49.0	-5.2	43.8	≤ 74.0	30.2	242.0	118.0	X	-
24800.000	AV	H	39.5	-1.9	37.6	≤ 54.0	16.4	321.0	124.0	X	10.0
24800.000	PK	H	49.4	-1.9	47.5	≤ 74.0	26.5	321.0	124.0	X	-
2483.500	AV	V	43.4	-6.0	37.4	≤ 54.0	16.6	160.0	106.0	X	10.0
2483.500	PK	V	53.2	-6.0	47.2	≤ 74.0	26.8	160.0	106.0	X	-
4960.000	AV	V	34.2	-1.6	32.6	≤ 54.0	21.4	224.0	148.0	X	10.0
4960.000	PK	V	43.4	-1.6	41.8	≤ 74.0	32.2	224.0	148.0	X	-
12400.000	AV	V	39.0	-6.1	32.9	≤ 54.0	21.1	202.0	84.0	X	10.0
12400.000	PK	V	49.0	-6.1	42.9	≤ 74.0	31.1	202.0	84.0	X	-
19840.000	AV	V	37.4	-0.2	37.2	≤ 54.0	16.8	256.0	132.0	X	10.0
19840.000	PK	V	47.0	-0.2	46.8	≤ 74.0	27.2	256.0	132.0	X	-

[EDR (3DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.0	-6.4	36.6	≤ 54.0	17.4	124.0	108.0	X	10.0
2390.000	PK	H	53.1	-6.4	46.7	≤ 74.0	27.3	124.0	108.0	X	-
4804.000	AV	H	33.8	-2.1	31.7	≤ 54.0	22.3	349.0	134.0	X	10.0
4804.000	PK	H	44.0	-2.1	41.9	≤ 74.0	32.1	349.0	134.0	X	-
14412.000	AV	H	39.4	-5.3	34.1	≤ 54.0	19.9	165.0	110.0	X	10.0
14412.000	PK	H	49.1	-5.3	43.8	≤ 74.0	30.2	165.0	110.0	X	-
19216.000	AV	H	38.6	-0.2	38.4	≤ 54.0	15.6	360.0	128.0	X	10.0
19216.000	PK	H	48.0	-0.2	47.8	≤ 74.0	26.2	360.0	128.0	X	-
2390.000	AV	V	42.9	-6.4	36.5	≤ 54.0	17.5	180.0	99.0	X	10.0
2390.000	PK	V	52.9	-6.4	46.5	≤ 74.0	27.5	180.0	99.0	X	-
4804.000	AV	V	33.8	-2.1	31.7	≤ 54.0	22.3	126.0	154.0	X	10.0
4804.000	PK	V	44.0	-2.1	41.9	≤ 74.0	32.1	126.0	154.0	X	-
12010.000	AV	V	38.8	-5.9	32.9	≤ 54.0	21.1	318.0	94.0	X	10.0
12010.000	PK	V	47.8	-5.9	41.9	≤ 74.0	32.1	318.0	94.0	X	-
21618.000	AV	V	38.5	-1.0	37.5	≤ 54.0	16.5	165.0	139.0	X	10.0
21618.000	PK	V	48.0	-1.0	47.0	≤ 74.0	27.0	165.0	139.0	X	-

[EDR (3DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4882.000	AV	H	34.4	-1.9	32.5	≤ 54.0	21.5	172.0	120.0	X	10.0
4882.000	PK	H	44.4	-1.9	42.5	≤ 74.0	31.5	172.0	120.0	X	-
12205.000	AV	H	38.9	-6.0	32.9	≤ 54.0	21.1	129.0	98.0	X	10.0
12205.000	PK	H	48.0	-6.0	42.0	≤ 74.0	32.0	129.0	98.0	X	-
14646.000	AV	H	38.6	-5.2	33.4	≤ 54.0	20.6	281.0	114.0	X	10.0
14646.000	PK	H	48.4	-5.2	43.2	≤ 74.0	30.8	281.0	114.0	X	-
19528.000	AV	H	37.6	-0.2	37.4	≤ 54.0	16.6	256.0	142.0	X	10.0
19528.000	PK	H	47.1	-0.2	46.9	≤ 74.0	27.1	256.0	142.0	X	-
4882.000	AV	V	34.0	-1.9	32.1	≤ 54.0	21.9	280.0	122.0	X	10.0
4882.000	PK	V	43.5	-1.9	41.6	≤ 74.0	32.4	280.0	122.0	X	-
9764.000	AV	V	36.6	-6.8	29.8	≤ 54.0	24.2	341.0	138.0	X	10.0
9764.000	PK	V	46.4	-6.8	39.6	≤ 74.0	34.4	341.0	138.0	X	-
14646.000	AV	V	38.4	-5.2	33.2	≤ 54.0	20.8	224.0	108.0	X	10.0
14646.000	PK	V	48.0	-5.2	42.8	≤ 74.0	31.2	224.0	108.0	X	-
24410.000	AV	V	39.0	-1.9	37.1	≤ 54.0	16.9	389.0	139.0	X	10.0
24410.000	PK	V	48.9	-1.9	47.0	≤ 74.0	27.0	389.0	139.0	X	-

[EDR (3DH5) / 2480 MHz]

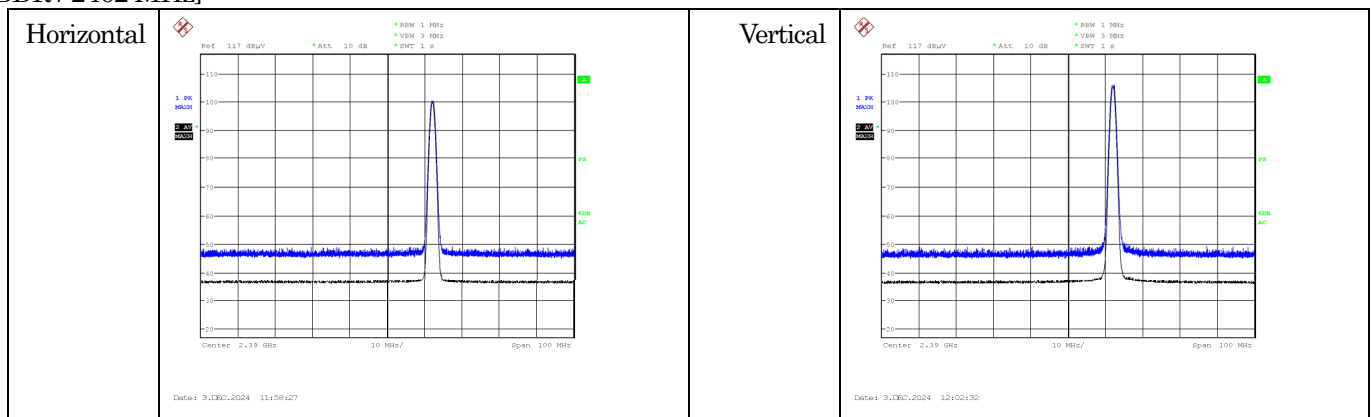
Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	43.5	-6.0	37.5	≤ 54.0	16.5	126.0	39.0	X	10.0
2483.500	PK	H	53.4	-6.0	47.4	≤ 74.0	26.6	126.0	39.0	X	-
4960.000	AV	H	34.2	-1.6	32.6	≤ 54.0	21.4	165.0	122.0	X	10.0
4960.000	PK	H	43.6	-1.6	42.0	≤ 74.0	32.0	165.0	122.0	X	-
14880.000	AV	H	39.2	-5.2	34.0	≤ 54.0	20.0	165.0	114.0	X	10.0
14880.000	PK	H	48.0	-5.2	42.8	≤ 74.0	31.2	165.0	114.0	X	-
24800.000	AV	H	39.0	-1.9	37.1	≤ 54.0	16.9	356.0	122.0	X	10.0
24800.000	PK	H	48.4	-1.9	46.5	≤ 74.0	27.5	356.0	122.0	X	-
2483.500	AV	V	43.4	-6.0	37.4	≤ 54.0	16.6	174.0	112.0	X	10.0
2483.500	PK	V	53.2	-6.0	47.2	≤ 74.0	26.8	174.0	112.0	X	-
4960.000	AV	V	33.2	-1.6	31.6	≤ 54.0	22.4	185.0	119.0	X	10.0
4960.000	PK	V	43.8	-1.6	42.2	≤ 74.0	31.8	185.0	119.0	X	-
12400.000	AV	V	38.9	-6.1	32.8	≤ 54.0	21.2	299.0	135.0	X	10.0
12400.000	PK	V	47.9	-6.1	41.8	≤ 74.0	32.2	299.0	135.0	X	-
19840.000	AV	V	37.6	-0.2	37.4	≤ 54.0	16.6	381.0	144.0	X	10.0
19840.000	PK	V	47.8	-0.2	47.6	≤ 74.0	26.4	381.0	144.0	X	-

Plot data for 2.4 GHz Restricted-Band Edge

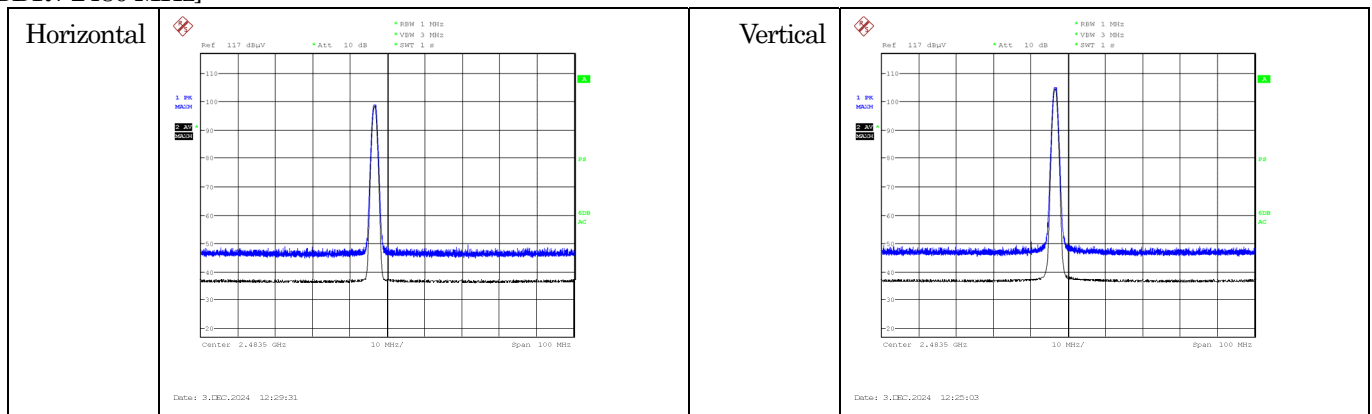
These plot data show peak (trace blue) and average (trace black) spectrum for worst case emissions in the restricted-band edges. (Restricted band edges: below 2390 MHz and above 2483.5 MHz)

The result of the final radiated spurious emissions measurement refers in previous pages.

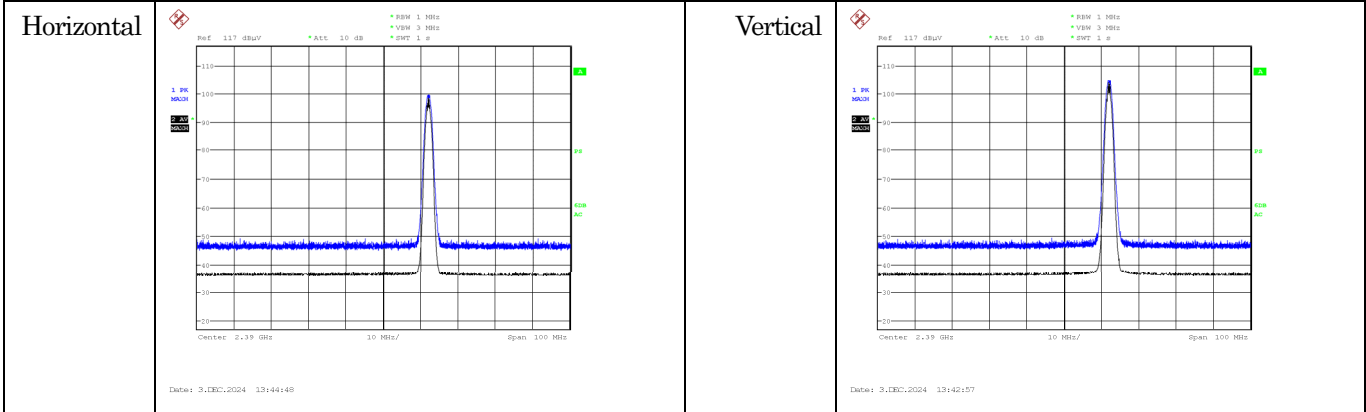
[BDR / 2402 MHz]



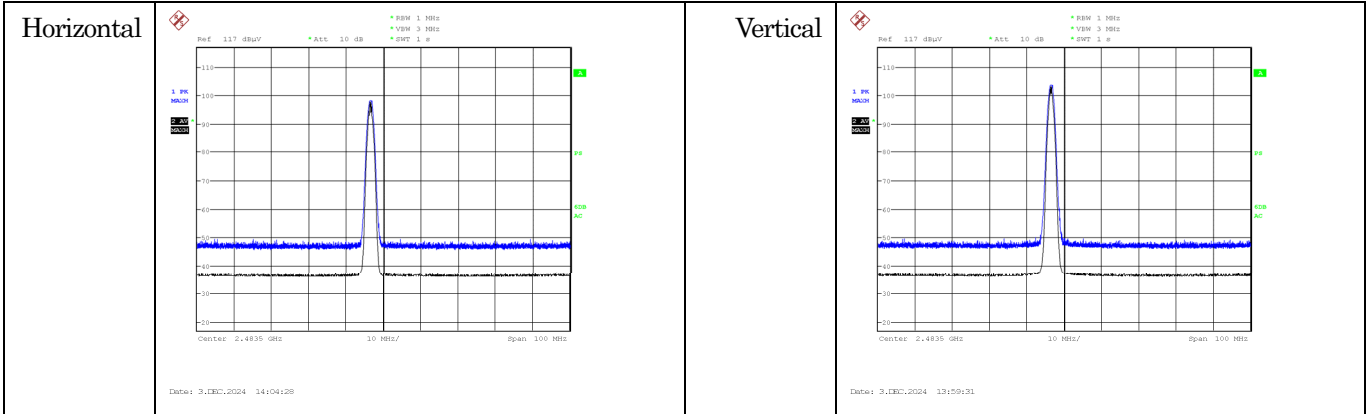
[BDR / 2480 MHz]



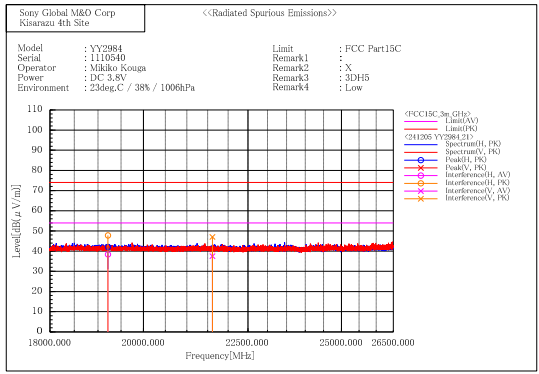
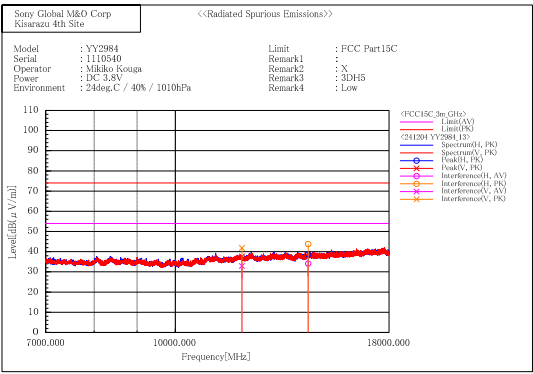
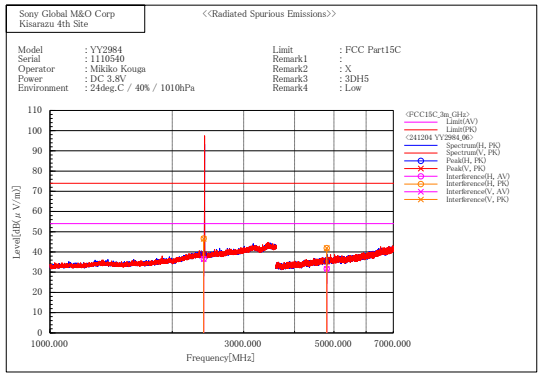
[EDR / 2402 MHz]



[EDR / 2480 MHz]



Plot data for above 1 GHz in worst mode



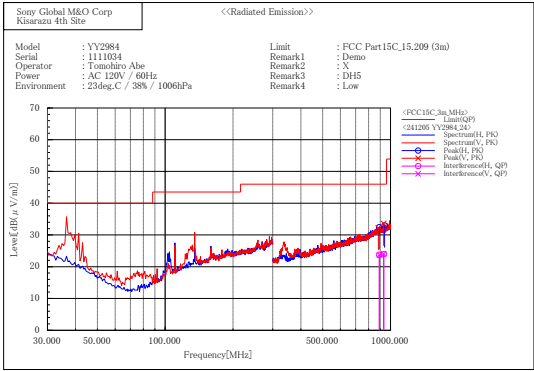
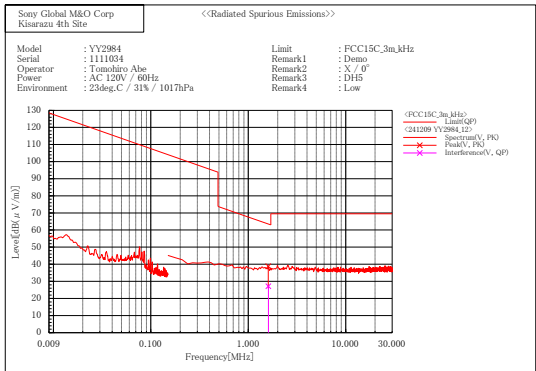
[Demo]

Measurement band	Date of measurement	Ambient temperature	Relative humidity	Measured by
9 kHz to 1000 MHz	December 5, 2024	23.0 deg.C	38.0 %	Tomohiro Abe
	December 9, 2024	23.0 deg.C	31.0 %	Tomohiro Abe
1 GHz to 7 GHz	December 2, 2024	24.0 deg.C	41.0 %	Tomohiro Abe
	December 3, 2024	23.0 deg.C	39.0 %	Mikiko Kouga
	December 3, 2024	23.0 deg.C	39.0 %	Tomohiro Abe
7 GHz to 18 GHz	December 4, 2024	24.0 deg.C	40.0 %	Tomohiro Abe
18 GHz to 26.5 GHz	December 4, 2024	24.0 deg.C	40.0 %	Tomohiro Abe

9 kHz to 1000 MHz

[BDR (DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position
890.980	QP	H	24.8	-1.1	23.7	46.0	22.3	107.0	333.4	X
935.520	QP	H	24.7	-0.7	24.0	46.0	22.0	146.2	49.2	X
1.610	QP	V	7.6	19.6	27.2	63.5	36.3	100.0	356.7	X
892.640	QP	V	24.8	-1.1	23.7	46.0	22.3	226.7	316.3	X
931.320	QP	V	24.7	-0.7	24.0	46.0	22.0	172.9	97.9	X



1 GHz to 26.5 GHz

* Although "Height" in radiated emissions data, which shows the height of the boom of the antenna mast, might exceed 400.0 cm. because of the antenna tilt positioner attached to the edge of the boom for the bore-sighting measurement, the height of the reference point of the antenna does not exceed 400.0 cm.

[BDR (DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	42.9	-6.4	36.5	≤ 54.0	17.5	100.0	121.2	X	10.0
2390.000	PK	H	53.2	-6.4	46.8	≤ 74.0	27.2	100.0	121.2	X	-
4804.000	AV	H	33.5	-2.1	31.4	≤ 54.0	22.6	314.8	93.1	X	10.0
4804.000	PK	H	43.6	-2.1	41.5	≤ 74.0	32.5	314.8	93.1	X	-
16814.000	AV	H	37.7	-2.6	35.1	≤ 54.0	18.9	358.4	12.1	X	10.0
16814.000	PK	H	46.7	-2.6	44.1	≤ 74.0	29.9	358.4	12.1	X	-
21618.000	AV	H	38.4	-1.0	37.4	≤ 54.0	16.6	213.3	344.3	X	10.0
21618.000	PK	H	48.2	-1.0	47.2	≤ 74.0	26.8	213.3	344.3	X	-
2390.000	AV	V	42.8	-6.4	36.4	≤ 54.0	17.6	117.6	132.9	X	10.0
2390.000	PK	V	53.1	-6.4	46.7	≤ 74.0	27.3	117.6	132.9	X	-
4804.000	AV	V	33.7	-2.1	31.6	≤ 54.0	22.4	417.6	330.8	X	10.0
4804.000	PK	V	43.6	-2.1	41.5	≤ 74.0	32.5	417.6	330.8	X	-
14412.000	AV	V	39.0	-5.3	33.7	≤ 54.0	20.3	431.0	208.9	X	10.0
14412.000	PK	V	48.9	-5.3	43.6	≤ 74.0	30.4	431.0	208.9	X	-
24020.000	AV	V	39.3	-1.9	37.4	≤ 54.0	16.6	180.7	214.0	X	10.0
24020.000	PK	V	48.3	-1.9	46.4	≤ 74.0	27.6	180.7	214.0	X	-

[BDR (DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4882.000	AV	H	33.5	-1.9	31.6	≤ 54.0	22.4	261.4	197.9	X	10.0
4882.000	PK	H	43.3	-1.9	41.4	≤ 74.0	32.6	261.4	197.9	X	-
12205.000	AV	H	38.6	-6.0	32.6	≤ 54.0	21.4	168.3	56.8	X	10.0
12205.000	PK	H	48.1	-6.0	42.1	≤ 74.0	31.9	168.3	56.8	X	-
17087.000	AV	H	36.4	-2.0	34.4	≤ 54.0	19.6	391.5	47.7	X	10.0
17087.000	PK	H	46.0	-2.0	44.0	≤ 74.0	30.0	391.5	47.7	X	-
19528.000	AV	H	37.6	-0.2	37.4	≤ 54.0	16.6	408.2	126.2	X	10.0
19528.000	PK	H	46.6	-0.2	46.4	≤ 74.0	27.6	408.2	126.2	X	-
4882.000	AV	V	33.4	-1.9	31.5	≤ 54.0	22.5	103.0	165.2	X	10.0
4882.000	PK	V	43.3	-1.9	41.4	≤ 74.0	32.6	103.0	165.2	X	-
14646.000	AV	V	38.6	-5.2	33.4	≤ 54.0	20.6	275.9	53.7	X	10.0
14646.000	PK	V	47.7	-5.2	42.5	≤ 74.0	31.5	275.9	53.7	X	-
17087.000	AV	V	36.9	-2.0	34.9	≤ 54.0	19.1	100.0	279.2	X	10.0
17087.000	PK	V	46.1	-2.0	44.1	≤ 74.0	29.9	100.0	279.2	X	-
24410.000	AV	V	39.4	-1.9	37.5	≤ 54.0	16.5	123.3	138.8	X	10.0
24410.000	PK	V	49.3	-1.9	47.4	≤ 74.0	26.6	123.3	138.8	X	-

[BDR (DH5) / 2480 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	42.7	-6.0	36.7	≤ 54.0	17.3	107.0	109.8	X	10.0
2483.500	PK	H	53.2	-6.0	47.2	≤ 74.0	26.8	107.0	109.8	X	-
4960.000	AV	H	33.6	-1.6	32.0	≤ 54.0	22.0	296.2	240.9	X	10.0
4960.000	PK	H	43.3	-1.6	41.7	≤ 74.0	32.3	296.2	240.9	X	-
14880.000	AV	H	38.7	-5.2	33.5	≤ 54.0	20.5	424.8	221.4	X	10.0
14880.000	PK	H	48.4	-5.2	43.2	≤ 74.0	30.8	424.8	221.4	X	-
22320.000	AV	H	38.1	-1.4	36.7	≤ 54.0	17.3	100.0	94.5	X	10.0
22320.000	PK	H	47.7	-1.4	46.3	≤ 74.0	27.7	100.0	94.5	X	-
2483.500	AV	V	43.7	-6.0	37.7	≤ 54.0	16.3	173.8	135.2	X	10.0
2483.500	PK	V	53.4	-6.0	47.4	≤ 74.0	26.6	173.8	135.2	X	-
4960.000	AV	V	33.6	-1.6	32.0	≤ 54.0	22.0	431.0	68.1	X	10.0
4960.000	PK	V	44.2	-1.6	42.6	≤ 74.0	31.4	431.0	68.1	X	-
17360.000	AV	V	37.5	-1.8	35.7	≤ 54.0	18.3	290.9	185.0	X	10.0
17360.000	PK	V	46.9	-1.8	45.1	≤ 74.0	28.9	290.9	185.0	X	-
24800.000	AV	V	39.7	-1.9	37.8	≤ 54.0	16.2	210.4	107.9	X	10.0
24800.000	PK	V	48.7	-1.9	46.8	≤ 74.0	27.2	210.4	107.9	X	-

[EDR (3DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.1	-6.4	36.7	≤ 54.0	17.3	169.0	124.0	X	10.0
2390.000	PK	H	53.3	-6.4	46.9	≤ 74.0	27.1	169.0	124.0	X	-
4804.000	AV	H	33.3	-2.1	31.2	≤ 54.0	22.8	100.0	62.4	X	10.0
4804.000	PK	H	43.6	-2.1	41.5	≤ 74.0	32.5	100.0	62.4	X	-
16814.000	AV	H	37.3	-2.6	34.7	≤ 54.0	19.3	266.3	100.3	X	10.0
16814.000	PK	H	46.7	-2.6	44.1	≤ 74.0	29.9	266.3	100.3	X	-
19216.000	AV	H	37.6	-0.2	37.4	≤ 54.0	16.6	359.5	321.6	X	10.0
19216.000	PK	H	46.8	-0.2	46.6	≤ 74.0	27.4	359.5	321.6	X	-
2390.000	AV	V	42.8	-6.4	36.4	≤ 54.0	17.6	184.0	124.0	X	10.0
2390.000	PK	V	52.8	-6.4	46.4	≤ 74.0	27.6	184.0	124.0	X	-
4804.000	AV	V	33.2	-2.1	31.1	≤ 54.0	22.9	186.4	42.3	X	10.0
4804.000	PK	V	43.4	-2.1	41.3	≤ 74.0	32.7	186.4	42.3	X	-
14412.000	AV	V	39.3	-5.3	34.0	≤ 54.0	20.0	159.4	68.8	X	10.0
14412.000	PK	V	49.2	-5.3	43.9	≤ 74.0	30.1	159.4	68.8	X	-
24020.000	AV	V	39.0	-1.9	37.1	≤ 54.0	16.9	306.5	134.2	X	10.0
24020.000	PK	V	48.5	-1.9	46.6	≤ 74.0	27.4	306.5	134.2	X	-

[EDR (3DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4882.000	AV	H	33.4	-1.9	31.5	≤ 54.0	22.5	100.0	130.6	X	10.0
4882.000	PK	H	43.2	-1.9	41.3	≤ 74.0	32.7	100.0	130.6	X	-
14646.000	AV	H	38.0	-5.2	32.8	≤ 54.0	21.2	316.6	339.8	X	10.0
14646.000	PK	H	47.4	-5.2	42.2	≤ 74.0	31.8	316.6	339.8	X	-
17087.000	AV	H	36.8	-2.0	34.8	≤ 54.0	19.2	272.8	356.7	X	10.0
17087.000	PK	H	45.9	-2.0	43.9	≤ 74.0	30.1	272.8	356.7	X	-
21969.000	AV	H	37.6	-1.2	36.4	≤ 54.0	17.6	289.6	112.6	X	10.0
21969.000	PK	H	47.6	-1.2	46.4	≤ 74.0	27.6	289.6	112.6	X	-
4882.000	AV	V	33.3	-1.9	31.4	≤ 54.0	22.6	431.0	9.1	X	10.0
4882.000	PK	V	43.2	-1.9	41.3	≤ 74.0	32.7	431.0	9.1	X	-
12205.000	AV	V	38.5	-6.0	32.5	≤ 54.0	21.5	431.0	92.6	X	10.0
12205.000	PK	V	48.2	-6.0	42.2	≤ 74.0	31.8	431.0	92.6	X	-
17087.000	AV	V	36.5	-2.0	34.5	≤ 54.0	19.5	165.6	183.2	X	10.0
17087.000	PK	V	46.1	-2.0	44.1	≤ 74.0	29.9	165.6	183.2	X	-
24410.000	AV	V	39.5	-1.9	37.6	≤ 54.0	16.4	182.8	157.8	X	10.0
24410.000	PK	V	49.6	-1.9	47.7	≤ 74.0	26.3	182.8	157.8	X	-

[EDR (3DH5) / 2480 MHz]

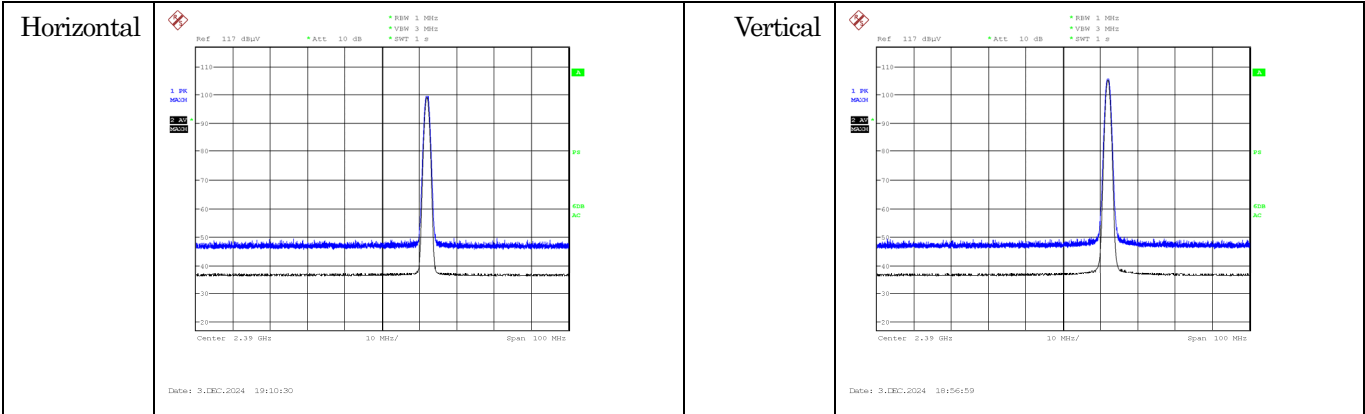
Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	42.8	-6.0	36.8	≤ 54.0	17.2	268.0	138.0	X	10.0
2483.500	PK	H	52.6	-6.0	46.6	≤ 74.0	27.4	268.0	138.0	X	-
4960.000	AV	H	33.1	-1.6	31.5	≤ 54.0	22.5	263.3	253.4	X	10.0
4960.000	PK	H	42.6	-1.6	41.0	≤ 74.0	33.0	263.3	253.4	X	-
14880.000	AV	H	38.5	-5.2	33.3	≤ 54.0	20.7	412.9	151.4	X	10.0
14880.000	PK	H	48.0	-5.2	42.8	≤ 74.0	31.2	412.9	151.4	X	-
24800.000	AV	H	39.4	-1.9	37.5	≤ 54.0	16.5	126.3	327.7	X	10.0
24800.000	PK	H	48.7	-1.9	46.8	≤ 74.0	27.2	126.3	327.7	X	-
2483.500	AV	V	43.3	-6.0	37.3	≤ 54.0	16.7	164.0	134.0	X	10.0
2483.500	PK	V	53.2	-6.0	47.2	≤ 74.0	26.8	164.0	134.0	X	-
4960.000	AV	V	33.7	-1.6	32.1	≤ 54.0	21.9	431.0	281.2	X	10.0
4960.000	PK	V	43.2	-1.6	41.6	≤ 74.0	32.4	431.0	281.2	X	-
17360.000	AV	V	37.6	-1.8	35.8	≤ 54.0	18.2	224.4	177.3	X	10.0
17360.000	PK	V	47.1	-1.8	45.3	≤ 74.0	28.7	224.4	177.3	X	-
19840.000	AV	V	38.4	-0.2	38.2	≤ 54.0	15.8	238.4	277.0	X	10.0
19840.000	PK	V	47.3	-0.2	47.1	≤ 74.0	26.9	238.4	277.0	X	-

Plot data for 2.4 GHz Restricted-Band Edge

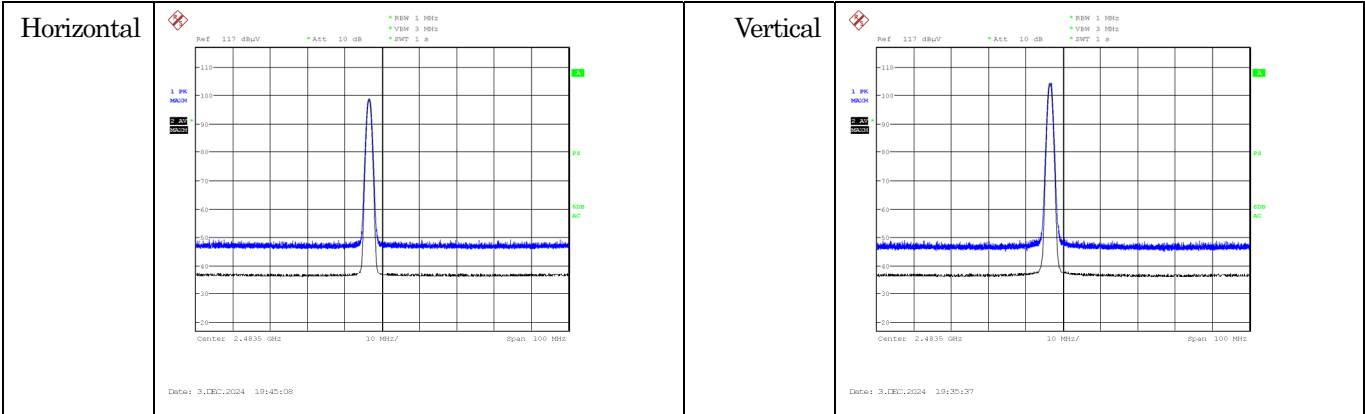
These plot data show peak (trace blue) and average (trace black) spectrum for worst case emissions in the restricted-band edges. (Restricted band edges: below 2390 MHz and above 2483.5 MHz)

The result of the final radiated spurious emissions measurement refers in previous pages.

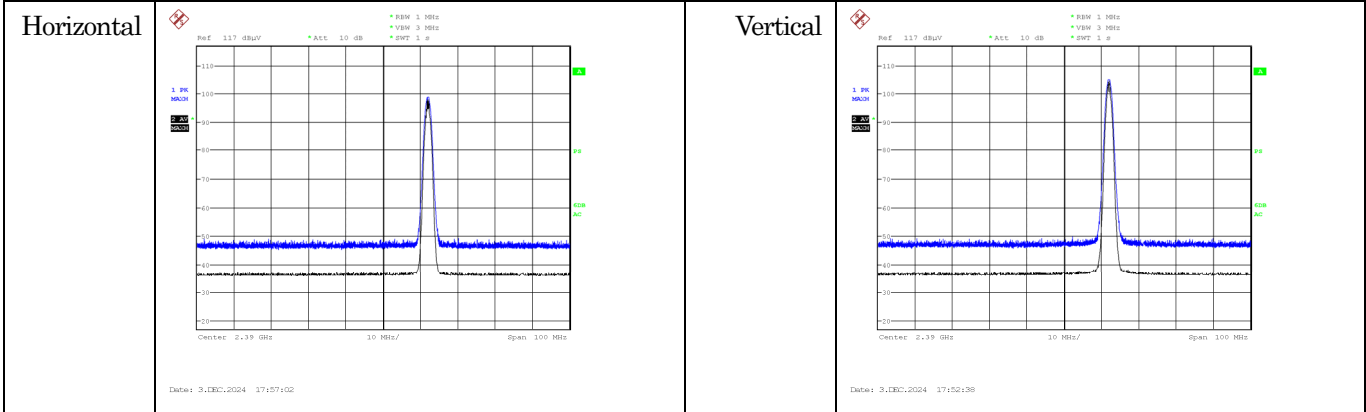
[BDR / 2402 MHz]



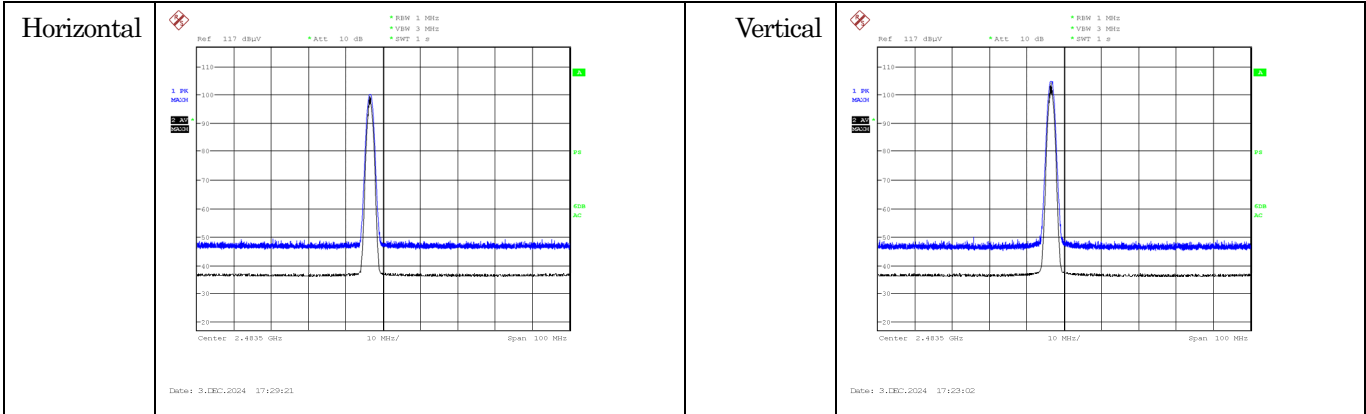
[BDR / 2480 MHz]



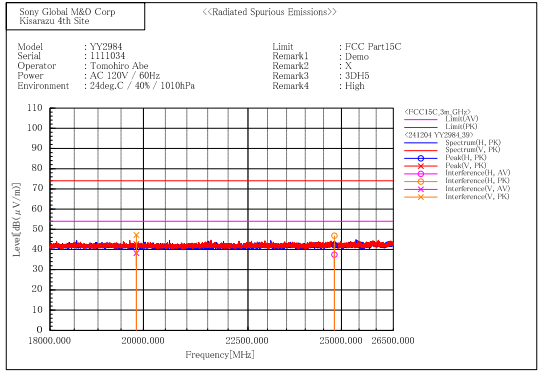
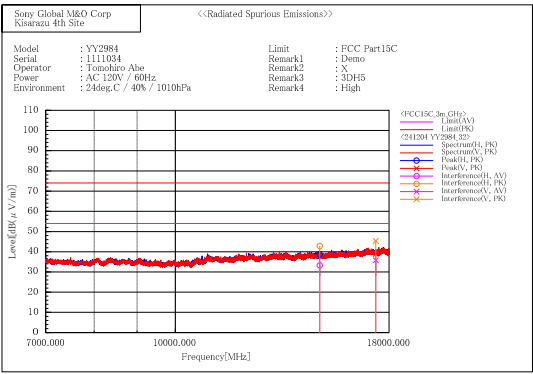
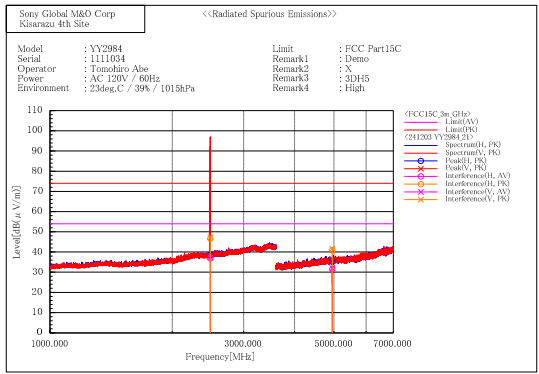
[EDR / 2402 MHz]



[EDR / 2480 MHz]



Plot data for above 1 GHz in worst mode

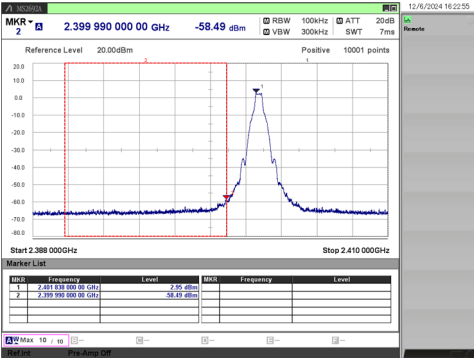


3.8. Conducted Spurious Emissions for Band Edge
[Normal]

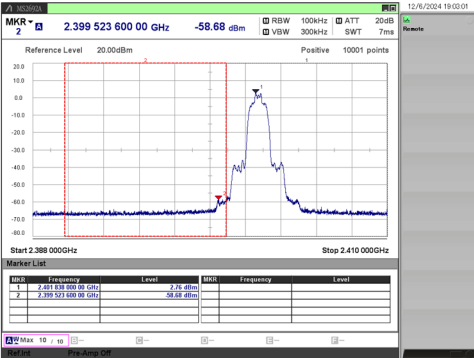
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 6, 2024	24.2 deg.C	40.2 %	Mikiko Kouga

Mode		Channel [MHz]	Frequency [MHz]	Reading(PK) [dBm]	C.F. [dB]	Result(PK) [dBm]	Limit [dBm]	Margin [dB]
BDR	DH5	2402	2401.84	2.95	1.83	4.78	-	-
			2399.99	-58.49	1.83	-56.66	≤ -15.22	41.44
EDR	3DH5	2402	2401.84	2.76	1.83	4.59	-	-
			2399.52	-58.68	1.83	-56.85	≤ -15.41	41.44

[BDR]



[EDR]

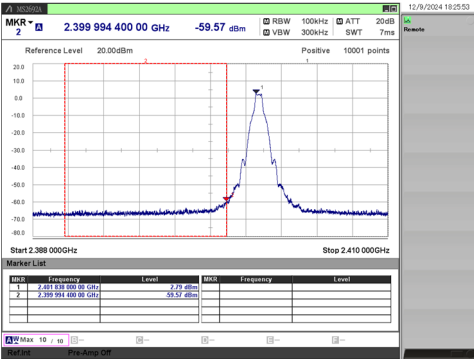


[Demo]

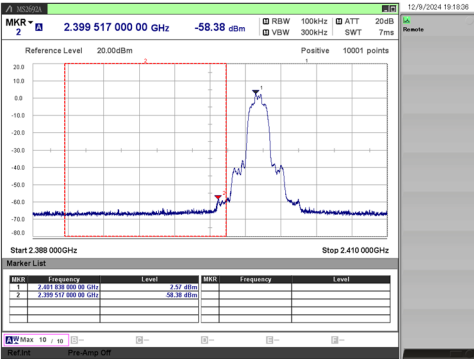
Date of measurement	Ambient temperature	Relative humidity	Measured by
December 9, 2024	24.1 deg.C	38.2 %	Mikiko Kouga

Mode		Channel [MHz]	Frequency [MHz]	Reading(PK) [dBm]	C.F. [dB]	Result(PK) [dBm]	Limit [dBm]	Margin [dB]
BDR	DH5	2402	2401.84	2.79	1.83	4.62	-	-
			2399.99	-59.57	1.83	-57.74	≤ -15.38	42.36
EDR	3DH5	2402	2401.84	2.57	1.83	4.40	-	-
			2399.52	-58.38	1.83	-56.55	≤ -15.60	40.95

[BDR]



[EDR]



4. Method of Calculation

4.1. AC Power-line Conducted Emissions

Method of calculation : Software
 Software Name : ES10/ CE
 Software Version : 2024.07.000

Test Result [dB μ V] = Meter Reading [dB μ V] + C.F. [dB]

Note (a) Meter Reading : Reading of the EMI test receiver.
 (b) C.F. : System Loss + Correction Factor of LISN

4.2. Time of Occupancy (Dwell Time)

Method of calculation : Software
 Software Name : SW-0308
 Software Version : Ver.5

Test Result [msec] = Dwell Time [msec] * Cycle [time] * 31.6 [sec] / Sweep Time [sec]

Note (a) Dwell Time : Transmission duration of 1 hopping.
 (b) Cycle : Number of hopping appearances on the spectrum analyzer.
 (The average of 10 measurements if it is random hopping equipment)
 (c) 31.6 : 0.4 [sec] * Number of Hopping Frequencies (79)
 (d) Sweep Time : Sweep time settings on the spectrum analyzer.

4.3. Maximum Peak Conducted Output Power

Method of calculation : Software
 Software Name : SW-0308
 Software Version : Ver.5

Conducted Output Power Result (PK) [dBm] = Meter Reading [dBm] + C.F. [dB]

EIRP Result [dBm] = Conducted Output Power Result [dBm] + Ant. Gain [dBi]

Duty Cycle [%] = T (Tx ON Time) / T_(on+off) (Tx ON Time + Tx OFF Time) * 100

Note (a) Meter Reading : Reading of the power meter
 (b) C.F. : System Cable Loss + EUT Cable Loss
 (c) Ant. Gain : EUT Antenna Gain

4.4. Radiated Spurious Emissions

Method of calculation : Software
Software Name : ES10/ RE
Software Version : 2024.04.000

Test Result [dB μ V/m] = Meter Reading [dB μ V] + C.F. [dB/m]

Note (a) Meter Reading : Reading of the EMI test receiver or the spectrum analyzer.
(b) C.F. : ☒ Antenna Factor (including Balun Loss) + System GainLoss
: ☐ Antenna Factor (including Balun Loss) + System GainLoss + 20 log (3 m/ 10 m)

4.5. Conducted Spurious Emissions for Band Edge

Method of calculation : Software
Software Name : SW-0308
Software Version : Ver.5

Test Result [dBm] = Meter Reading [dBm] + C.F. [dB]

Note (a) Meter Reading : Reading of the spectrum analyzer.
(b) C.F. : System Cable Loss + EUT Cable Loss

5. List of Test Equipment

All test results are traceable to the national and/or international standards.

5.1. AC Power-line Conducted Emissions

Ctrl#	Equipment	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.
M5342	EMI Receiver	ESW8	101137	Rohde & Schwarz	12 months	24.05.24
CS0058	Fourth Site CE Cable SYSTEM 2	-	-	-	12 months	24.05.12
M0606	LISN/AMN	ENV216	101306	Rohde & Schwarz	12 months	24.05.12
M5062	Scientific Ambient Monitor	0560 6220	39515563/802	testo	12 months	24.10.10
M3528	Temperature Meter	608-H2	30038344	testo	24 months	23.08.03

About calibration interval

Valid until the end of the month listed in “Cal. Int.” column.

5.2. Antenna-port Conducted Measurements

Ctrl#	Equipment	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.
W0006	Power Meter	N1911A	MY50000295	Agilent Technologies	12 months	24.11.08
W0007	Power Sensor	N1922A	MY50180022	Agilent Technologies	12 months	24.11.08
W0100	Signal Analyzer	MS2692A	6201338954	Anritsu	12 months	24.11.08
WC0005	50 ohm Coaxial Cable (0.5 m)	SUCOFLEX102	34287/2	HUBER + SUHNER	12 months	24.12.01
M0719	Thermo Meter	TH-321	140053	AS ONE	12 months	24.05.10

About calibration interval

Valid until the end of the month listed in “Cal. Int.” column.

5.3. Radiated Spurious Emissions

Ctrl#	Equipment	Model No.	Serial No.	Manufacturer	Cal. Interval	Last Cal.
M0504	EMI Receiver	ESU40	100086	Rohde & Schwarz	12 months	23.12.02
A0073	Loop Antenna	HFH2-Z2	100171	Rohde & Schwarz	12 months	23.12.01
A0145	Biconical Antenna	BBA9106	VHA91032211	Schwarzbeck	12 months	24.05.17
A0117	Logperiodic Antenna	UHALP9108A1	0656	Schwarzbeck	12 months	24.05.17
A0056	Horn Antenna	BBHA9120D	670	Schwarzbeck	12 months	24.03.03
A0057	Horn Antenna Pre-Amplifier Assembly	HAP06-18W	00000037	Toyo Corporation	12 months	24.03.03
A0058	Horn Antenna Pre-Amplifier Assembly	HAP18-26W	00000016	Toyo Corporation	12 months	24.02.13
CS0039	Fourth Site RE Cable SYSTEM 3	-	-	-	12 months	24.05.12
CS0054	Fourth Site EMF Cable SYSTEM	-	-	-	12 months	24.05.12
M1055	GHz Filter Box	WSF-109	17111786	Wakoh	12 months	24.03.03
M0510	RF Selector	NS4900	0802-226	Toyo Corporation	-	-
M0620	RF Pre-Amp	8447D	2944A10720	Agilent Technologies	-	-
M0706	3 dB Attenuator	8491A 3 dB	MY52460858	Agilent Technologies	12 months	24.05.12
M5062	Scientific Ambient Monitor	0560 6220	39515563/802	testo	12 months	24.10.10
M5314	Temperature Meter	608-H2	83148485	testo	24 months	23.09.04

About calibration interval

Valid until the end of the month listed in “Cal. Int.” column.