

RADIO TEST REPORT

(for Bluetooth classic)

Project No. : JB-Z0990
Client's Control No : AF21054
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. : YY2950
FCC ID : AK8YY2950
Test Standard : 47 CFR Part 15 Subpart C
Sample Receipt Date : September 15, 2021
Test Date : September 27, 2021 to October 19, 2021
Report Date : October 28, 2021
Test Result : Complied

Notice:

- * These test results relate only to the items (combination equipment, test configuration, operation condition etc.) tested.
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- * 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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TESTING CERT #3203.01

Format No.:NV1-1-01 Version 5.0

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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-Z0990 (Original)	October 28, 2021	-	-

Disclaimer

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

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

* The laboratory is not responsible for 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.	: YY2950		
Serial No.	: 332, 334		
Power Rating of the EUT	: DC 3.85 V (Internal Battery) or DC 5 V (USB)		

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	: Monopole Antenna
Antenna Connector Type	: None
Antenna Gain	: Left Unit : -3.0 dBi, Right Unit -2.0 dBi
Operating Temperature	: 0.0 deg.C to +40.0 deg.C

1.2. Summary of Test Result

Test Item	Test Method	Worst Margin	Results	Note
AC Power-line Conducted Emissions	Conducted	22.3 dB (QP) 0.213 MHz N	Complied	-
20dB Bandwidth	Conducted	Refer to the test data	Complied	*1
Carrier Frequency Separation	Conducted	Refer to the test data	Complied	*1
Number of Hopping Frequencies	Conducted	Refer to the test data	Complied	*1
Time of Occupancy (Dwell Time)	Conducted	Refer to the test data	Complied	*1
Maximum Peak Conducted Output Power	Conducted	11.77 dB	Complied	*1
Radiated Spurious Emissions	Radiated	14.0 dB (AV) 4804.005 MHz Horizontal	Complied	-
Conducted Spurious Emissions for Band Edge	Conducted	40.14 dB 2399.98 MHz	Complied	*1 *2

Note

- *1: The item was performed on the Right Unit since the Left Unit and Right Unit have the same RF specifications regarding to the item.
- *2: 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.)

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 m width and 1m 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, ☐ wood, ☐ 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
20dB 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

- The non-conductive table (EUT table) made of (☐ FRP, ☒ Styrene Foam, ☐ other non-conductive material) was placed in the center of the turntable.
- The EUT was placed on the center of the tabletop.
- The test antenna was placed away from the EUT at test distance.
- The limits were compensated the distance factor with follows:
 $9 \text{ kHz to } 490 \text{ kHz [Limit at 3 m]} = [\text{Limit at 300 m}] + 40\log(300[\text{m}] / 3[\text{m}])$
 $490 \text{ kHz to } 30 \text{ MHz [Limit at 3 m]} = [\text{Limit at 30 m}] + 40\log(30[\text{m}] / 3[\text{m}])$
- 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)
- 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. (T is the minimum transmission duration)

- 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 100ms at measurement point

8. Although these tests for below 30MHz 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 1GHz 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 3m 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
Cert. Validated Date : December 31, 2021

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 6 GHz	± 0.84 dB
Conducted Spurious Emissions	below 6 GHz	± 1.25 dB

Test Item	Frequency	Distance	4th Site	EMC Site
AC Power-line Conducted Emissions	150 kHz to 30 MHz	-	± 3.34 dB	± 3.35 dB
Radiated Emissions	9 kHz to 30 MHz	3m	± 2.60 dB	± 3.13 dB
	30 MHz to 1000 MHz	3m	± 4.96 dB	± 5.26 dB
	1 GHz to 18 GHz	3m	± 5.68 dB	± 5.94 dB
	18 GHz to 26.5 GHz	3m	± 4.66 dB	± 4.98 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 1GHz) *4	2402 MHz	BDR : DH5
20dB Bandwidth, Maximum Peak Conducted Output Power, Radiated Spurious Emissions (above 1GHz)	2402 MHz 2441 MHz 2480 MHz	BDR : DH5 EDR : 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 : Earbuds BT Test
Software Version : v0.27

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

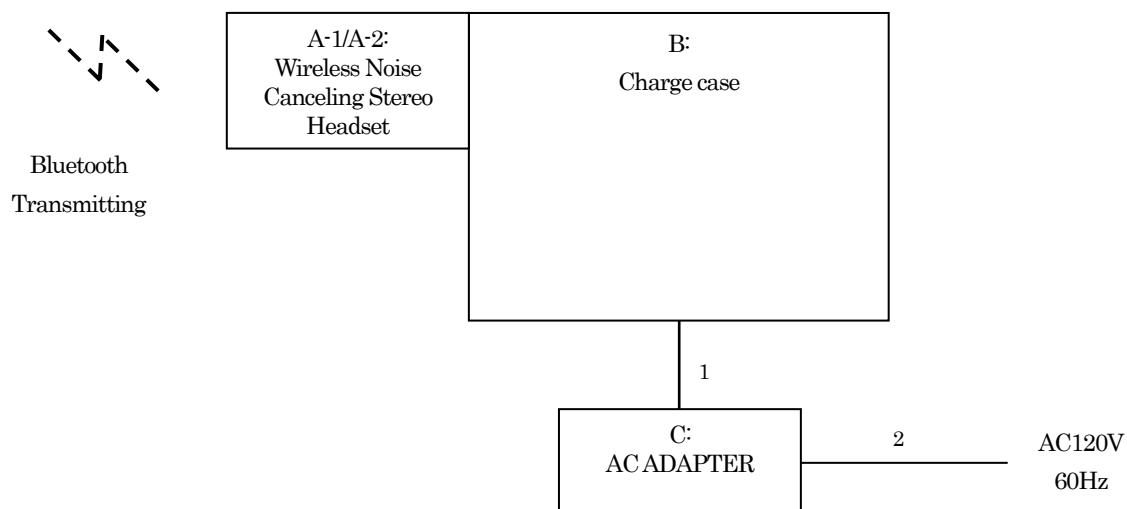
[EUT and Associated Equipment (AE)]

Symbol	EUT/ AE	Item	Manufacturer	Model No.	Serial No.
A-1	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2950 (Left Unit)	334
A-2	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2950 (Right Unit)	334
B	EUT	Charge case	SONY	YY2950 (Charging case)	334
C	AE	AC ADAPTOR	SONY	AC-UD20	19066000379

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
1	USB Cable	-	Yes	No	0.2	No
2	AC extension Cable	OHM ELECTRIC	No	No	1.0	No

[Connecting Diagram]



Antenna port Conducted Measurements

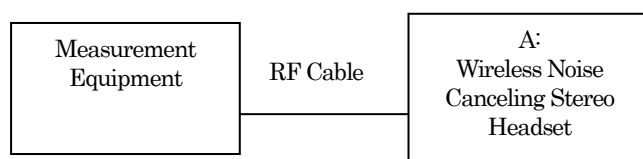
[EUT and Associated Equipment (AE)]

Symbol	EUT/ AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2950 (Right Unit)	332

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
-	-	-	-	-	-	-

[Connecting Diagram]

**Radiated Spurious Emissions**

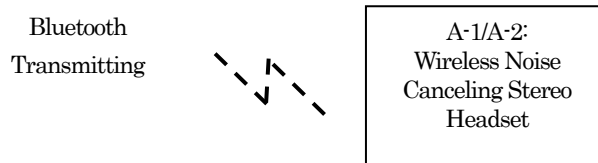
[EUT and Associated Equipment (AE)]

Symbol	EUT/ AE	Item	Manufacturer	Model No.	Serial No.
A-1	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2950 (Left Unit)	334
A-2	EUT	Wireless Noise Canceling Stereo Headset	SONY	YY2950 (Right Unit)	334

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
-	-	-	-	-	-	-

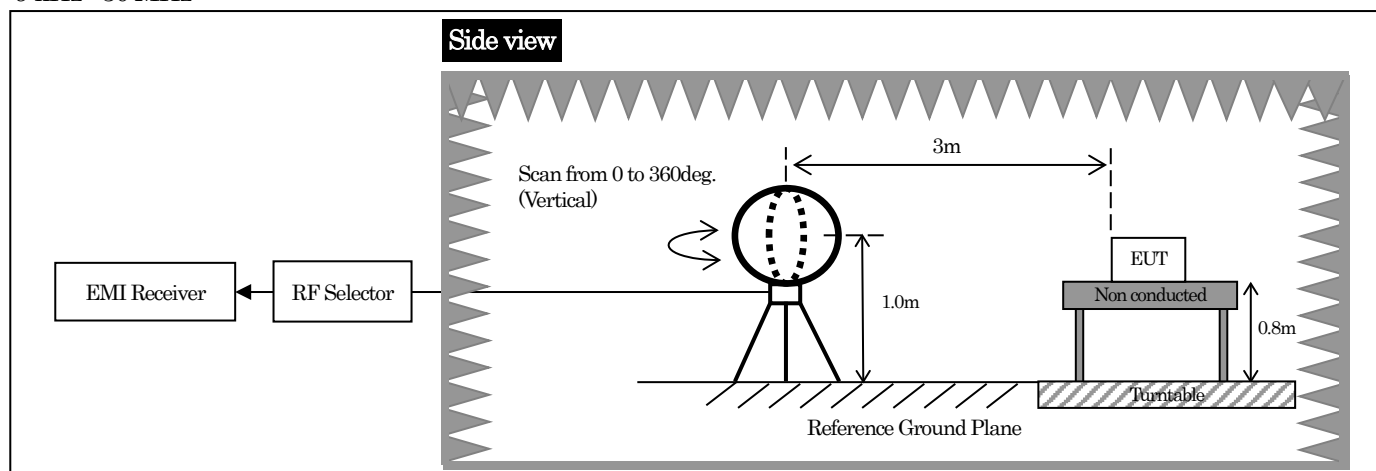
[Connecting Diagram]



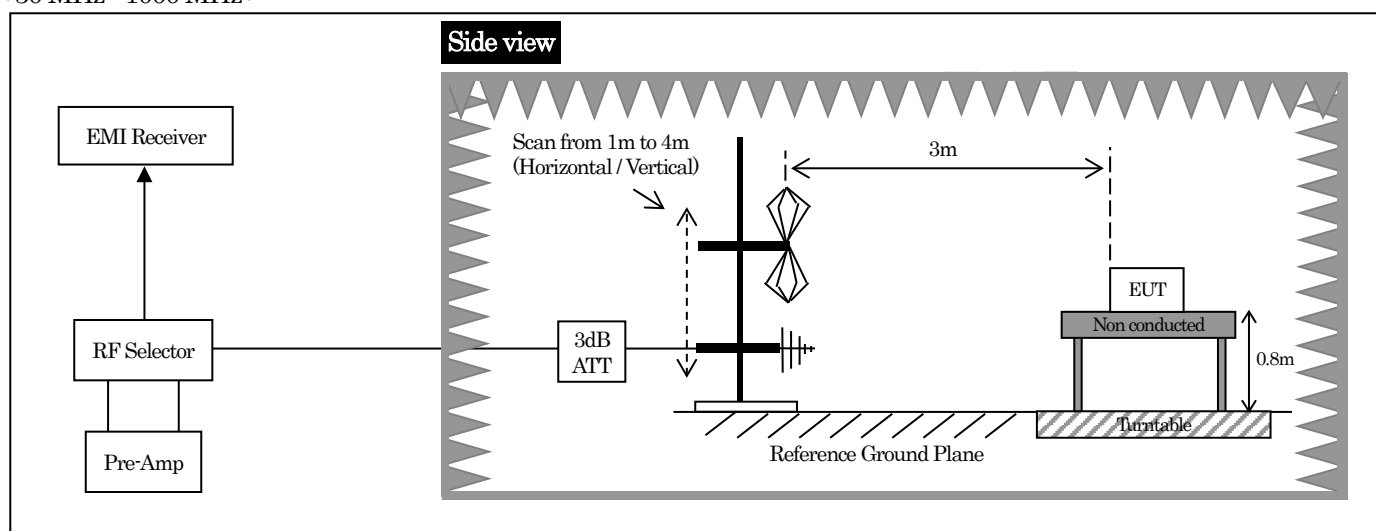
2.6. Typical setup arrangement

Radiated spurious emissions

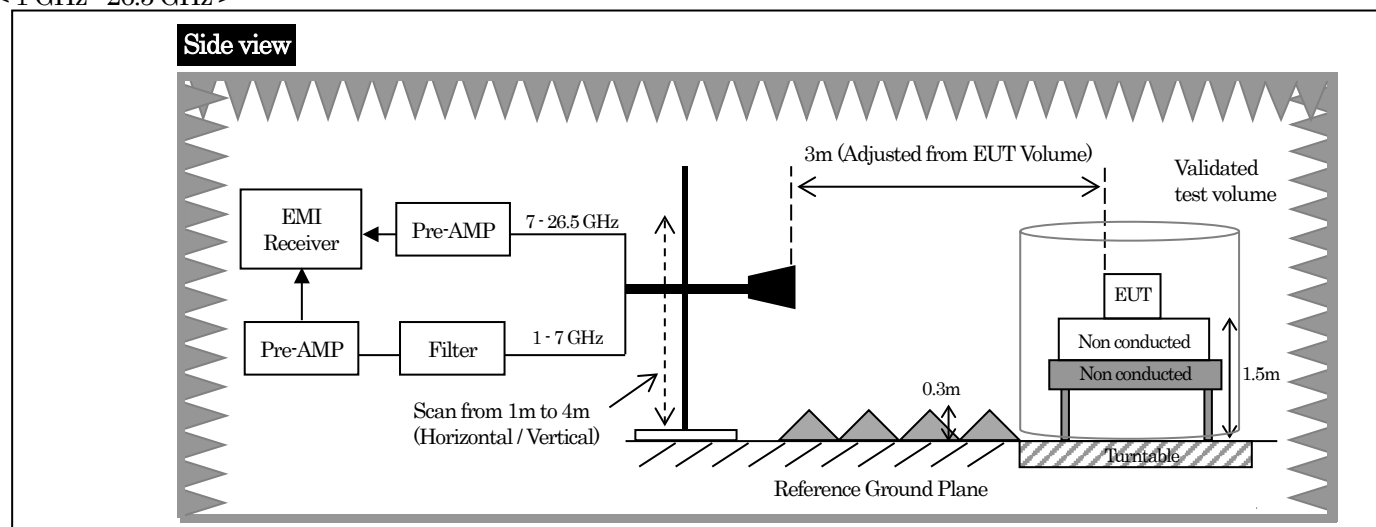
< 9 kHz - 30 MHz >



< 30 MHz - 1000 MHz >



< 1 GHz - 26.5 GHz >



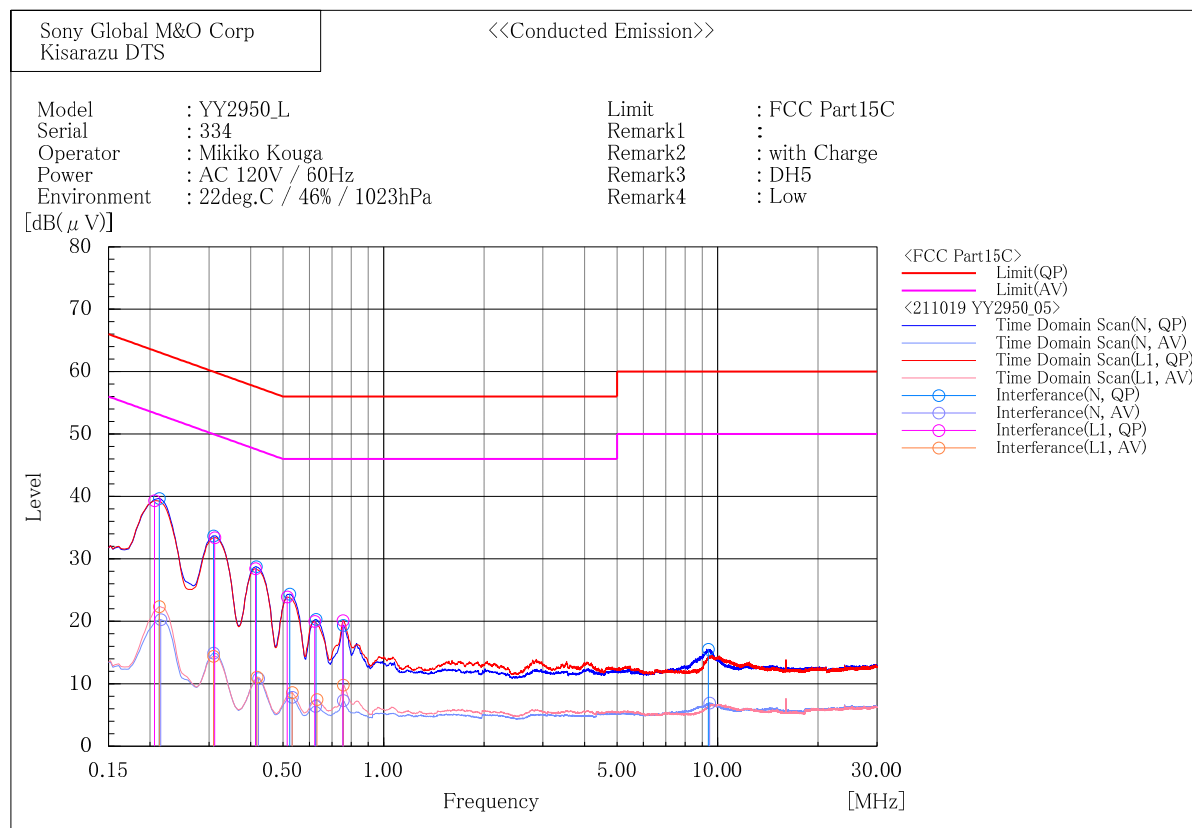
3. Test Data

3.1. AC Power-line Conducted Emissions

Date of measurement	Ambient temperature	Relative humidity	Measured by
October 19, 20210	22.0 deg.C	46.0 %	Mikiko Kouga

Left Unit

[BDR / 2402 MHz]



Final Result

--- N (QP) ---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB]	Result [dB(μV)]	Limit [dB(μV)]	Margin [dB]
1	0.213	30.0	9.7	39.7	63.1	23.4
2	0.310	24.0	9.7	33.7	60.0	26.3
3	0.416	19.0	9.7	28.7	57.5	28.8
4	0.524	14.6	9.7	24.3	56.0	31.7
5	0.627	10.6	9.7	20.3	56.0	35.7
6	0.758	9.6	9.7	19.3	56.0	36.7
7	9.391	5.4	10.1	15.5	60.0	44.5

--- N (AV) ---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB]	Result [dB(μV)]	Limit [dB(μV)]	Margin [dB]
1	0.215	10.6	9.7	20.3	53.0	32.7
2	0.310	5.2	9.7	14.9	50.0	35.1
3	0.422	1.1	9.7	10.8	47.4	36.6
4	0.533	-1.9	9.7	7.8	46.0	38.2
5	0.625	-3.3	9.7	6.4	46.0	39.6
6	0.758	-2.4	9.7	7.3	46.0	38.7
7	9.458	-3.2	10.1	6.9	50.0	43.1

--- L1 (QP) ---

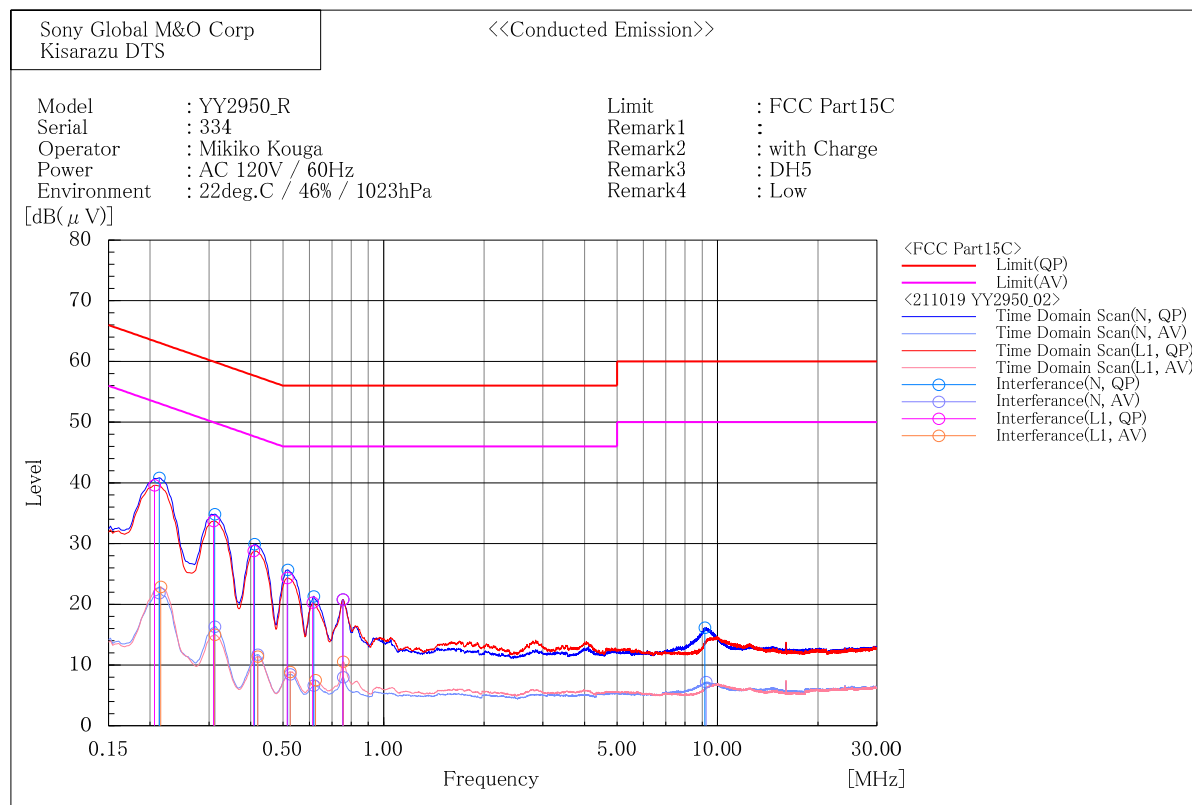
No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB]	Result [dB(μV)]	Limit [dB(μV)]	Margin [dB]
1	0.206	29.6	9.7	39.3	63.4	24.1
2	0.312	23.7	9.7	33.4	59.9	26.5
3	0.413	18.7	9.7	28.4	57.6	29.2
4	0.515	14.2	9.7	23.9	56.0	32.1
5	0.623	10.3	9.7	20.0	56.0	36.0
6	0.755	10.4	9.7	20.1	56.0	35.9

--- L1 (AV) ---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB]	Result [dB(μV)]	Limit [dB(μV)]	Margin [dB]
1	0.213	12.7	9.7	22.4	53.1	30.7
2	0.310	4.7	9.7	14.4	50.0	35.6
3	0.418	1.4	9.7	11.1	47.5	36.4
4	0.533	-1.1	9.7	8.6	46.0	37.4
5	0.632	-2.3	9.7	7.4	46.0	38.6
6	0.758	0.1	9.7	9.8	46.0	36.2

Right Unit

[BDR / 2402 MHz]



Final Result

--- N (QP) ---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB]	Result [dB(μ V)]	Limit [dB(μ V)]	Margin [dB]
1	0.213	31.1	9.7	40.8	63.1	22.3
2	0.312	25.1	9.7	34.8	59.9	25.1
3	0.411	20.2	9.7	29.9	57.6	27.7
4	0.517	16.0	9.7	25.7	56.0	30.3
5	0.618	11.6	9.7	21.3	56.0	34.7
6	0.755	11.1	9.7	20.8	56.0	35.2
7	9.168	6.0	10.1	16.1	60.0	43.9

--- N (AV) ---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB]	Result [dB(μ V)]	Limit [dB(μ V)]	Margin [dB]
1	0.213	12.1	9.7	21.8	53.1	31.3
2	0.312	6.6	9.7	16.3	49.9	33.6
3	0.420	2.0	9.7	11.7	47.4	35.7
4	0.526	-1.2	9.7	8.5	46.0	37.5
5	0.618	-3.1	9.7	6.6	46.0	39.4
6	0.758	-1.7	9.7	8.0	46.0	38.0
7	9.247	-2.9	10.1	7.2	50.0	42.8

--- L1 (QP) ---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB]	Result [dB(μ V)]	Limit [dB(μ V)]	Margin [dB]
1	0.206	29.9	9.7	39.6	63.4	23.8
2	0.310	24.0	9.7	33.7	60.0	26.3
3	0.409	19.1	9.7	28.8	57.7	28.9
4	0.515	14.6	9.7	24.3	56.0	31.7
5	0.755	11.1	9.7	20.8	56.0	35.2
6	0.614	10.6	9.7	20.3	56.0	35.7

--- L1 (AV) ---

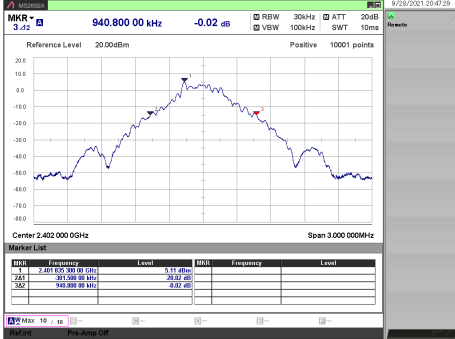
No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB]	Result [dB(μ V)]	Limit [dB(μ V)]	Margin [dB]
1	0.215	13.2	9.7	22.9	53.0	30.1
2	0.312	5.3	9.7	15.0	49.9	34.9
3	0.420	1.7	9.7	11.4	47.4	36.0
4	0.526	-0.8	9.7	8.9	46.0	37.1
5	0.625	-2.2	9.7	7.5	46.0	38.5
6	0.758	0.9	9.7	10.6	46.0	35.4

3.2. 20dB Bandwidth

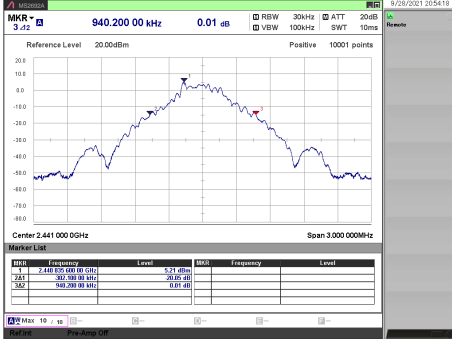
Date of measurement	Ambient temperature	Relative humidity	Measured by
September 28, 2021	24.0 deg.C	60.8 %	Mikiko Kouga

Mode		Channel [MHz]	Result [MHz]	Limit [MHz]
BDR	DH5	2402	0.941	-
		2441	0.940	-
		2480	0.941	-
EDR	3DH5	2402	1.245	-
		2441	1.247	-
		2480	1.246	-

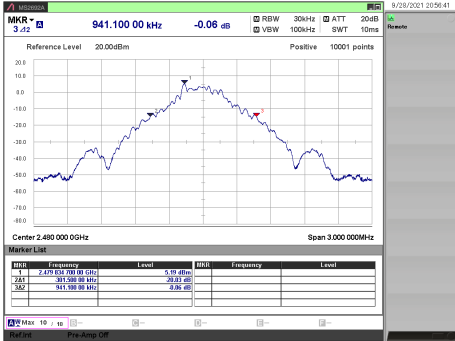
[BDR / 2402 MHz]



[BDR / 2441 MHz]



[BDR / 2480 MHz]



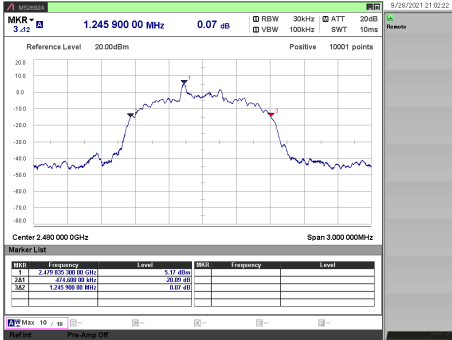
[EDR / 2402 MHz]



[EDR / 2441 MHz]



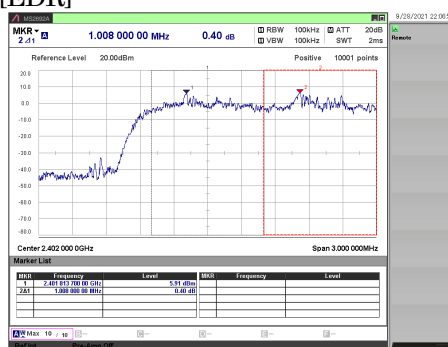
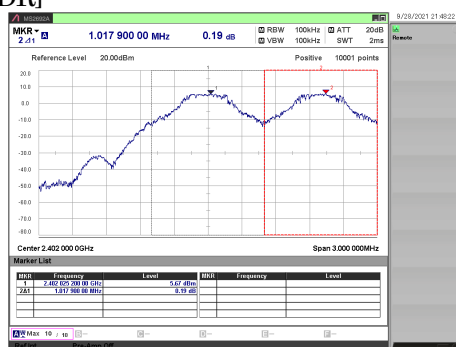
[EDR / 2480 MHz]



3.3. Carrier Frequency Separation

Date of measurement	Ambient temperature	Relative humidity	Measured by
September 28, 2021	24.0 deg.C	60.8 %	Mikiko Kouga

Mode		Reading [kHz]	Limit [kHz]
BDR	DH5	1017.9	≥ 627.4
EDR	3DH5	1008.0	≥ 831.0

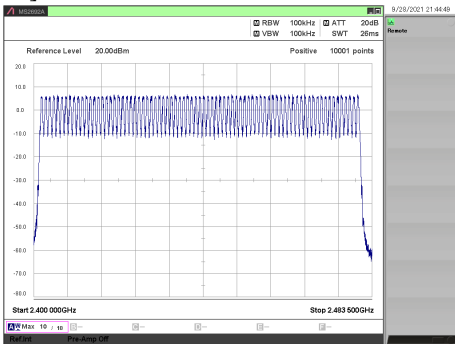


3.4. Number of Hopping Frequencies

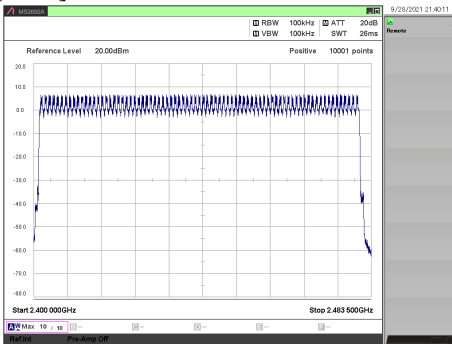
Date of measurement		Ambient temperature	Relative humidity	Measured by
September 28, 2021		24.0 deg.C	60.8 %	Mikiko Kouga

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

[BDR]



[EDR]

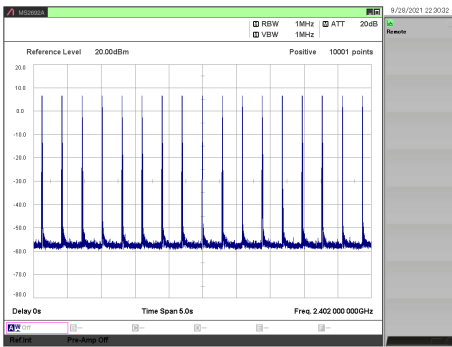
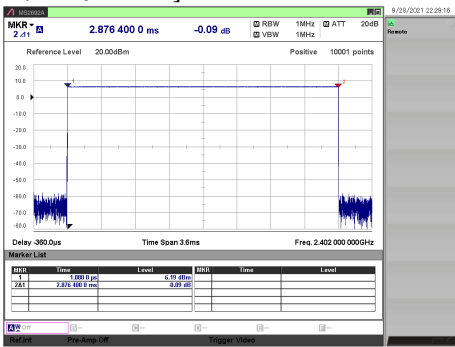


3.5. Time of Occupancy (Dwell Time)

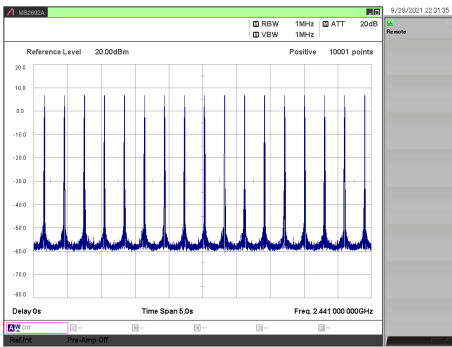
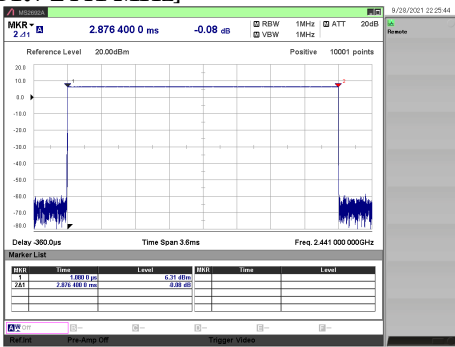
Date of measurement	Ambient temperature	Relative humidity	Measured by
September 28, 2021	24.0 deg.C	60.8 %	Mikiko Kouga
October 18, 2021	24.2 deg.C	55.6 %	Mikiko Kouga

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

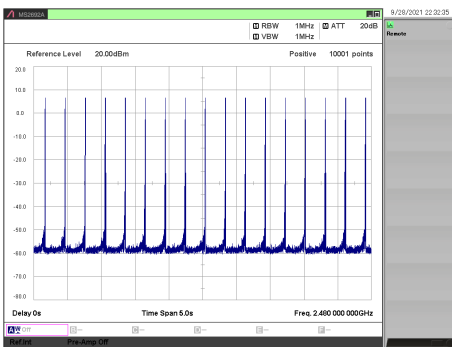
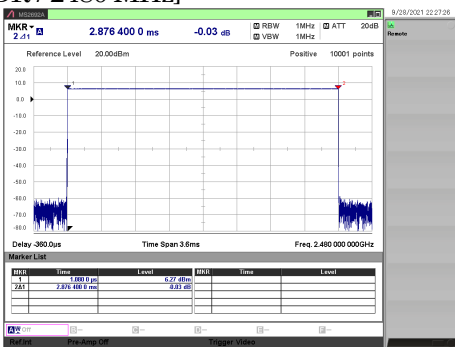
[BDR / 2402 MHz]



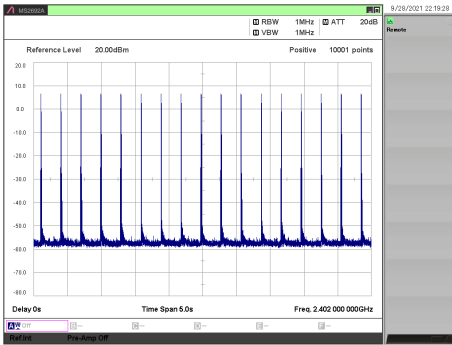
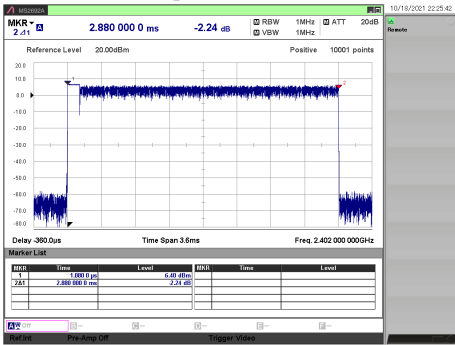
[BDR / 2441 MHz]



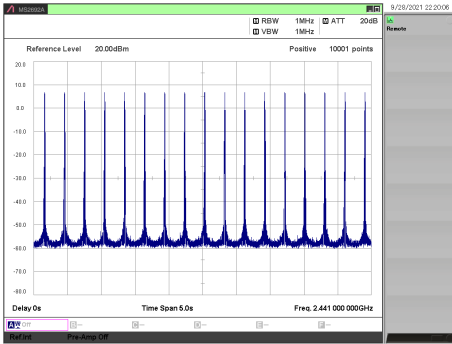
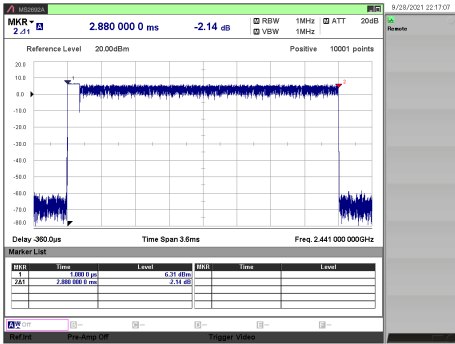
[BDR / 2480 MHz]



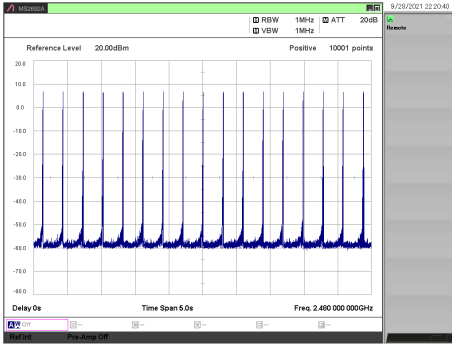
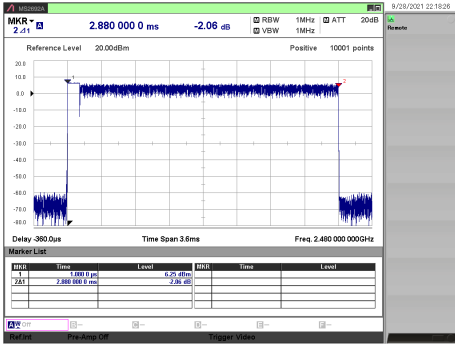
[EDR / 2402 MHz]



[EDR / 2441 MHz]



[EDR / 2480 MHz]



3.6. Maximum Peak Conducted Output Power

Date of measurement	Ambient temperature	Relative humidity	Measured by
September 27, 2021	23.0 deg.C	68.6 %	Mikiko Kouga

Maximum Peak Conducted Output Power

Mode		Channel [MHz]	Reading(PK) [dBm]	C.F. [dB]	Result(PK) [dBm]	Result(PK) [W]	Limit [dBm]	Limit [W]	Margin [dB]
BDR	DH5	2402	7.01	1.90	8.91	0.00778	≤ 20.97	≤ 0.125	12.06
		2441	7.07	1.90	8.97	0.00789	≤ 20.97	≤ 0.125	12.00
		2480	7.02	1.90	8.92	0.00780	≤ 20.97	≤ 0.125	12.05
EDR	2DH5	2402	6.99	1.90	8.89	0.00774	≤ 20.97	≤ 0.125	12.08
		2441	7.09	1.90	8.99	0.00793	≤ 20.97	≤ 0.125	11.98
		2480	7.00	1.90	8.90	0.00776	≤ 20.97	≤ 0.125	12.07
	3DH5	2402	7.20	1.90	9.10	0.00813	≤ 20.97	≤ 0.125	11.87
		2441	7.30	1.90	9.20	0.00832	≤ 20.97	≤ 0.125	11.77
		2480	7.22	1.90	9.12	0.00817	≤ 20.97	≤ 0.125	11.85

Duty Cycle check

Mode		Channel [MHz]	T(on+off) [msec]	T(on) [msec]	Duty Cycle [%]
BDR	DH1	2441	1.250	0.373	29.82
	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	76.73
	3DH1	2441	1.250	0.378	30.26
	3DH3	2441	2.500	1.630	65.18
	3DH5	2441	3.750	2.876	76.69

3.7. Radiated Spurious Emissions

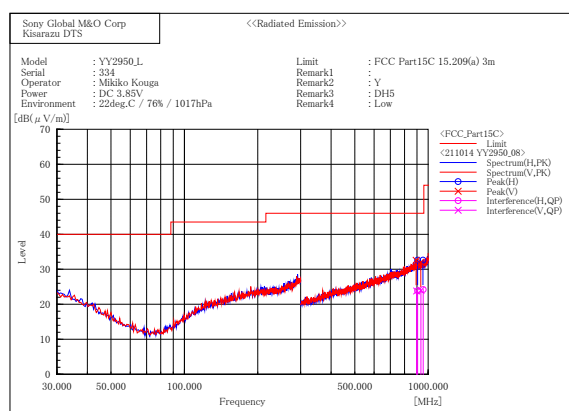
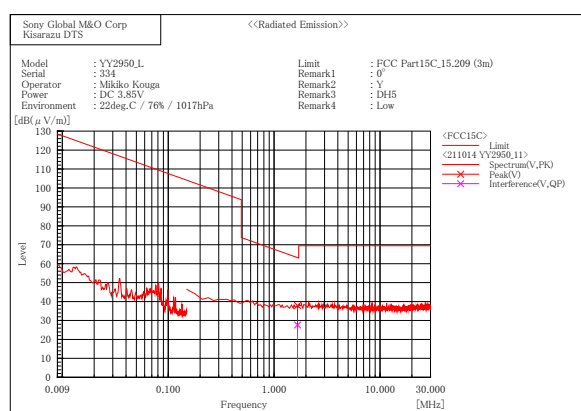
Left Unit

Measurement band	Date of measurement	Ambient temperature	Relative humidity	Measured by
9 kHz to 1000 MHz	October 14, 2021	22.0 deg.C	76.0 %	Mikiko Kouga
1 GHz to 7 GHz	October 7, 2021	22.0 deg.C	69.0 %	Mikiko Kouga
	October 8, 2021	22.0 deg.C	70.0 %	Taito Nakamura
	October 11, 2021	21.0 deg.C	69.0 %	Taito Nakamura, Mikiko Kouga
7 GHz to 18 GHz	October 12, 2021	22.0 deg.C	73.0 %	Taito Nakamura
	October 13, 2021	23.0 deg.C	70.0 %	Taito Nakamura
18 GHz to 26.5 GHz	October 12, 2021	22.0 deg.C	73.0 %	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
905.569	QP	H	25.0	-1.1	23.9	≤ 46.0	22.1	178.0	96.8	Y
953.997	QP	H	24.8	-0.6	24.2	≤ 46.0	21.8	171.0	356.8	Y
1.664	QP	V	7.7	20.0	27.7	≤ 63.2	35.5	100.0	177.8	Y
896.692	QP	V	25.0	-1.2	23.8	≤ 46.0	22.2	385.0	114.8	Y
934.178	QP	V	24.9	-0.9	24.0	≤ 46.0	22.0	326.0	307.8	Y



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]	DCCF [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.6	-7.1	-	36.5	≤ 54.0	17.5	295.9	92.0	Y	10.0
2390.000	PK	H	52.8	-7.1	-	45.7	≤ 74.0	28.3	294.0	93.0	Y	-
4804.014	AV	H	41.3	-3.2	-	38.1	≤ 54.0	15.9	118.7	188.3	Y	10.0
4804.021	PK	H	48.4	-3.2	-	45.2	≤ 74.0	28.8	119.0	187.0	Y	-
7206.013	PK	H	50.4	-8.8	-	41.6	≤ 74.0	32.4	100.0	12.3	Y	-
7206.141	AV	H	40.7	-8.8	-	31.9	≤ 54.0	22.1	100.0	13.3	Y	10.0
9608.000	AV	H	37.3	-6.0	-	31.3	≤ 54.0	22.7	194.7	42.3	Y	10.0
9608.000	PK	H	46.2	-6.0	-	40.2	≤ 74.0	33.8	194.1	44.3	Y	-
21618.000	AV	H	39.5	-1.5	-	38.0	≤ 54.0	16.0	149.0	125.3	Y	10.0
21618.000	PK	H	49.2	-1.5	-	47.7	≤ 74.0	26.3	150.0	121.3	Y	-
2390.000	AV	V	43.0	-7.1	-	35.9	≤ 54.0	18.1	419.9	178.5	Y	10.0
2390.000	PK	V	53.1	-7.1	-	46.0	≤ 74.0	28.0	418.0	179.0	Y	-
4803.972	PK	V	47.3	-3.2	-	44.1	≤ 74.0	29.9	252.0	242.0	Y	-
4804.056	AV	V	38.9	-3.2	-	35.7	≤ 54.0	18.3	253.1	241.7	Y	10.0
7206.000	AV	V	39.5	-8.8	-	30.7	≤ 54.0	23.3	381.7	245.5	Y	10.0
7206.000	PK	V	49.1	-8.8	-	40.3	≤ 74.0	33.7	380.0	246.3	Y	-
12010.000	AV	V	38.7	-5.2	-	33.5	≤ 54.0	20.5	110.9	16.3	Y	10.0
12010.000	PK	V	47.8	-5.2	-	42.6	≤ 74.0	31.4	109.0	17.3	Y	-
24020.000	AV	V	40.0	-2.6	-	37.4	≤ 54.0	16.6	325.0	99.3	Y	10.0
24020.000	PK	V	49.8	-2.6	-	47.2	≤ 74.0	26.8	319.0	100.3	Y	-

[BDR (DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	DCCF [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4881.770	PK	H	48.8	-3.3	-	45.5	≤ 74.0	28.5	144.0	145.9	Y	-
4881.969	AV	H	41.2	-3.3	-	37.9	≤ 54.0	16.1	141.0	144.9	Y	10.0
7322.929	PK	H	49.0	-8.8	-	40.2	≤ 74.0	33.8	100.0	10.3	Y	-
7322.997	AV	H	39.7	-8.8	-	30.9	≤ 54.0	23.1	100.0	9.3	Y	10.0
17087.000	AV	H	36.5	-1.7	-	34.8	≤ 54.0	19.2	194.4	166.3	Y	10.0
17087.000	PK	H	47.1	-1.7	-	45.4	≤ 74.0	28.6	193.0	167.3	Y	-
21969.000	AV	H	39.2	-1.7	-	37.5	≤ 54.0	16.5	180.0	48.4	Y	10.0
21969.000	PK	H	49.1	-1.7	-	47.4	≤ 74.0	26.6	141.0	62.4	Y	-
4881.839	PK	V	46.7	-3.3	-	43.4	≤ 74.0	30.6	390.0	277.9	Y	-
4882.089	AV	V	38.1	-3.3	-	34.8	≤ 54.0	19.2	389.0	276.9	Y	10.0
7322.859	AV	V	39.2	-8.8	-	30.4	≤ 54.0	23.6	312.8	241.0	Y	10.0
7322.859	PK	V	48.9	-8.8	-	40.1	≤ 74.0	33.9	311.0	241.3	Y	-
12205.000	AV	V	37.7	-5.2	-	32.5	≤ 54.0	21.5	259.5	21.6	Y	10.0
12205.000	PK	V	47.5	-5.2	-	42.3	≤ 74.0	31.7	256.3	23.3	Y	-
19528.000	AV	V	37.9	-0.7	-	37.2	≤ 54.0	16.8	100.0	115.4	Y	10.0
19528.000	PK	V	47.6	-0.7	-	46.9	≤ 74.0	27.1	100.0	120.4	Y	-

[BDR (DH5) / 2480 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	43.6	-6.7	-	36.9	≤ 54.0	17.1	308.3	82.6	Y	10.0
2483.500	PK	H	53.5	-6.7	-	46.8	≤ 74.0	27.2	309.0	80.9	Y	-
4959.946	PK	H	46.4	-3.0	-	43.4	≤ 74.0	30.6	100.0	161.9	Y	-
4959.962	AV	H	40.1	-3.0	-	37.1	≤ 54.0	16.9	100.0	163.5	Y	10.0
7440.000	AV	H	40.3	-8.9	-	31.4	≤ 54.0	22.6	100.0	26.0	Y	10.0
7440.000	PK	H	49.7	-8.9	-	40.8	≤ 74.0	33.2	100.0	30.5	Y	-
12400.000	AV	H	38.4	-5.4	-	33.0	≤ 54.0	21.0	171.2	338.2	Y	10.0
12400.000	PK	H	48.4	-5.4	-	43.0	≤ 74.0	31.0	170.0	338.3	Y	-
19840.000	AV	H	38.5	-0.7	-	37.8	≤ 54.0	16.2	156.0	180.2	Y	10.0
19840.000	PK	H	48.2	-0.7	-	47.5	≤ 74.0	26.5	158.0	180.4	Y	-
2483.500	AV	V	42.9	-6.7	-	36.2	≤ 54.0	17.8	431.0	167.5	Y	10.0
2483.500	PK	V	52.9	-6.7	-	46.2	≤ 74.0	27.8	431.0	167.9	Y	-
4959.992	AV	V	37.7	-3.0	-	34.7	≤ 54.0	19.3	366.8	221.2	Y	10.0
4959.995	PK	V	45.8	-3.0	-	42.8	≤ 74.0	31.2	365.0	219.9	Y	-
7440.000	AV	V	39.5	-8.9	-	30.6	≤ 54.0	23.4	376.0	232.4	Y	10.0
7440.000	PK	V	49.4	-8.9	-	40.5	≤ 74.0	33.5	375.1	236.2	Y	-
17360.000	AV	V	37.1	-1.4	-	35.7	≤ 54.0	18.3	325.6	328.2	Y	10.0
17360.458	PK	V	46.6	-1.4	-	45.2	≤ 74.0	28.8	323.5	329.9	Y	-
24800.000	AV	V	40.2	-2.8	-	37.4	≤ 54.0	16.6	122.0	68.6	Y	10.0
24800.000	PK	V	50.2	-2.8	-	47.4	≤ 74.0	26.6	110.0	95.4	Y	-

[EDR (3DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.1	-7.1	-	36.0	≤ 54.0	18.0	362.0	240.9	Y	10.0
2390.000	PK	H	53.5	-7.1	-	46.4	≤ 74.0	27.6	361.0	237.9	Y	-
4803.996	AV	H	41.4	-3.2	-	38.2	≤ 54.0	15.8	404.0	148.0	Y	10.0
4804.061	PK	H	48.6	-3.2	-	45.4	≤ 74.0	28.6	405.0	146.9	Y	-
7206.000	AV	H	39.9	-8.8	-	31.1	≤ 54.0	22.9	100.0	32.4	Y	10.0
7206.000	PK	H	49.4	-8.8	-	40.6	≤ 74.0	33.4	100.0	31.0	Y	-
14412.000	AV	H	39.0	-5.2	-	33.8	≤ 54.0	20.2	307.1	121.2	Y	10.0
14412.000	PK	H	48.9	-5.2	-	43.7	≤ 74.0	30.3	301.8	132.4	Y	-
21618.000	AV	H	39.4	-1.5	-	37.9	≤ 54.0	16.1	156.0	115.4	Y	10.0
21618.000	PK	H	49.4	-1.5	-	47.9	≤ 74.0	26.1	154.0	109.4	Y	-
2390.000	AV	V	43.2	-7.1	-	36.1	≤ 54.0	17.9	415.0	154.9	Y	10.0
2390.000	PK	V	53.2	-7.1	-	46.1	≤ 74.0	27.9	416.0	155.9	Y	-
4804.014	PK	V	46.6	-3.2	-	43.4	≤ 74.0	30.6	429.0	235.9	Y	-
4804.117	AV	V	39.0	-3.2	-	35.8	≤ 54.0	18.2	430.0	236.9	Y	10.0
7206.000	AV	V	39.4	-8.8	-	30.6	≤ 54.0	23.4	282.9	258.5	Y	10.0
7206.000	PK	V	48.8	-8.8	-	40.0	≤ 74.0	34.0	280.8	259.9	Y	-
12010.000	AV	V	38.3	-5.2	-	33.1	≤ 54.0	20.9	195.3	94.4	Y	10.0
12010.000	PK	V	47.5	-5.2	-	42.3	≤ 74.0	31.7	193.9	95.3	Y	-
24020.000	AV	V	39.7	-2.6	-	37.1	≤ 54.0	16.9	129.0	209.4	Y	10.0
24020.000	PK	V	49.6	-2.6	-	47.0	≤ 74.0	27.0	127.0	218.4	Y	-

[EDR (3DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4881.706	PK	H	47.5	-3.3	-	44.2	≤ 74.0	29.8	146.0	149.9	Y	-
4881.825	AV	H	40.8	-3.3	-	37.5	≤ 54.0	16.5	148.0	155.9	Y	10.0
7323.000	AV	H	38.8	-8.8	-	30.0	≤ 54.0	24.0	267.9	335.3	Y	10.0
7323.000	PK	H	48.0	-8.8	-	39.2	≤ 74.0	34.8	267.4	337.3	Y	-
12205.000	AV	H	37.8	-5.2	-	32.6	≤ 54.0	21.4	100.0	233.4	Y	10.0
12205.000	PK	H	47.6	-5.2	-	42.4	≤ 74.0	31.6	100.0	235.1	Y	-
21969.000	AV	H	39.1	-1.7	-	37.4	≤ 54.0	16.6	220.0	171.4	Y	10.0
21969.000	PK	H	49.2	-1.7	-	47.5	≤ 74.0	26.5	218.0	169.4	Y	-
4882.003	AV	V	37.9	-3.3	-	34.6	≤ 54.0	19.4	384.0	225.9	Y	10.0
4882.184	PK	V	46.1	-3.3	-	42.8	≤ 74.0	31.2	387.0	227.9	Y	-
9764.000	AV	V	37.1	-5.2	-	31.9	≤ 54.0	22.1	176.6	140.5	Y	10.0
9764.000	PK	V	46.4	-5.2	-	41.2	≤ 74.0	32.8	176.3	143.5	Y	-
14646.000	AV	V	38.0	-5.1	-	32.9	≤ 54.0	21.1	121.9	196.4	Y	10.0
14646.000	PK	V	48.3	-5.1	-	43.2	≤ 74.0	30.8	120.0	196.9	Y	-
24410.000	AV	V	40.0	-2.8	-	37.2	≤ 54.0	16.8	299.0	124.4	Y	10.0
24410.000	PK	V	49.9	-2.8	-	47.1	≤ 74.0	26.9	296.0	119.5	Y	-

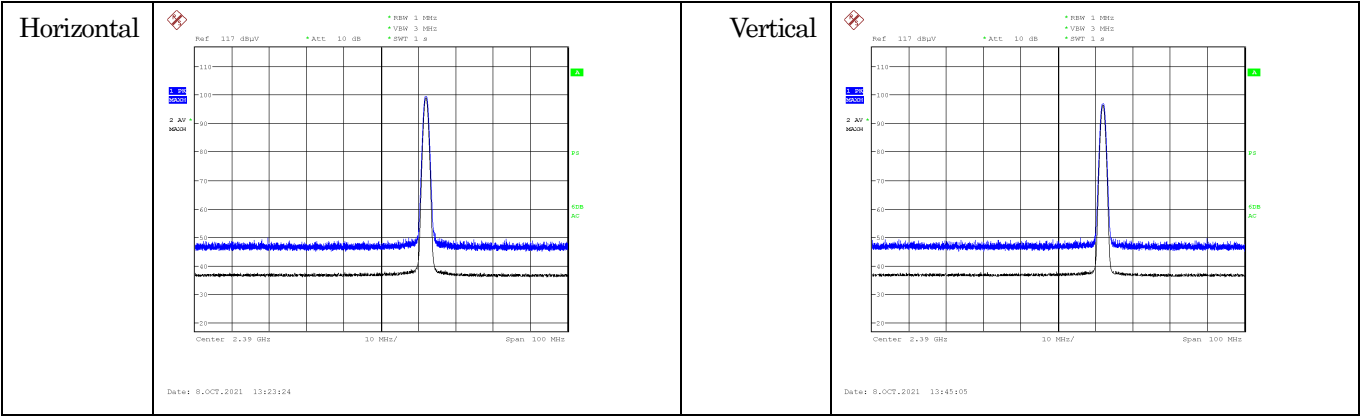
[EDR (3DH5) / 2480 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	43.6	-6.7	-	36.9	≤ 54.0	17.1	273.6	75.4	Y	10.0
2483.500	PK	H	54.2	-6.7	-	47.5	≤ 74.0	26.5	274.0	73.9	Y	-
4959.938	AV	H	40.3	-3.0	-	37.3	≤ 54.0	16.7	100.0	173.0	Y	10.0
4959.969	PK	H	47.4	-3.0	-	44.4	≤ 74.0	29.6	100.0	173.9	Y	-
7440.000	AV	H	39.9	-8.9	-	31.0	≤ 54.0	23.0	268.1	192.1	Y	10.0
7440.000	PK	H	49.2	-8.9	-	40.3	≤ 74.0	33.7	267.4	198.2	Y	-
12400.000	AV	H	38.3	-5.4	-	32.9	≤ 54.0	21.1	321.0	283.5	Y	10.0
12400.000	PK	H	48.1	-5.4	-	42.7	≤ 74.0	31.3	320.5	284.0	Y	-
22320.000	AV	H	39.4	-1.9	-	37.5	≤ 54.0	16.5	145.0	62.4	Y	10.0
22320.000	PK	H	49.4	-1.9	-	47.5	≤ 74.0	26.5	148.0	81.0	Y	-
2483.500	AV	V	43.5	-6.7	-	36.8	≤ 54.0	17.2	431.0	166.6	Y	10.0
2483.500	PK	V	52.9	-6.7	-	46.2	≤ 74.0	27.8	431.0	166.9	Y	-
4959.937	PK	V	45.9	-3.0	-	42.9	≤ 74.0	31.1	369.0	242.9	Y	-
4959.959	AV	V	38.0	-3.0	-	35.0	≤ 54.0	19.0	368.4	243.1	Y	10.0
9920.000	AV	V	36.5	-4.9	-	31.6	≤ 54.0	22.4	115.9	330.6	Y	10.0
9920.000	PK	V	46.1	-4.9	-	41.2	≤ 74.0	32.8	117.9	334.1	Y	-
17360.000	AV	V	37.2	-1.4	-	35.8	≤ 54.0	18.2	159.8	76.0	Y	10.0
17360.000	PK	V	46.9	-1.4	-	45.5	≤ 74.0	28.5	158.0	77.0	Y	-
19840.000	AV	V	38.6	-0.7	-	37.9	≤ 54.0	16.1	385.0	280.4	Y	10.0
19840.000	PK	V	49.9	-0.7	-	49.2	≤ 74.0	24.8	380.0	285.4	Y	-

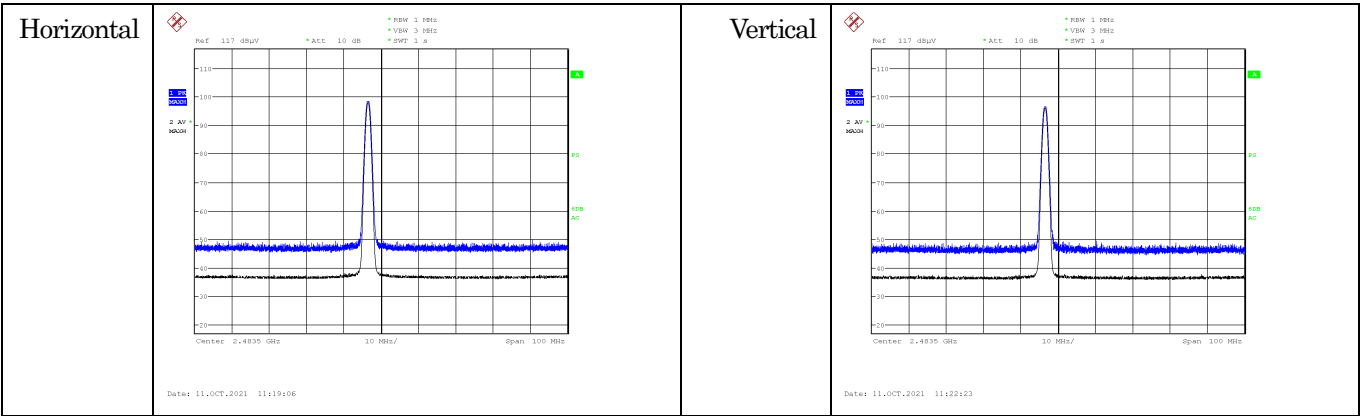
Plot data for 2.4 GHz Restricted-Band Edge)

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.

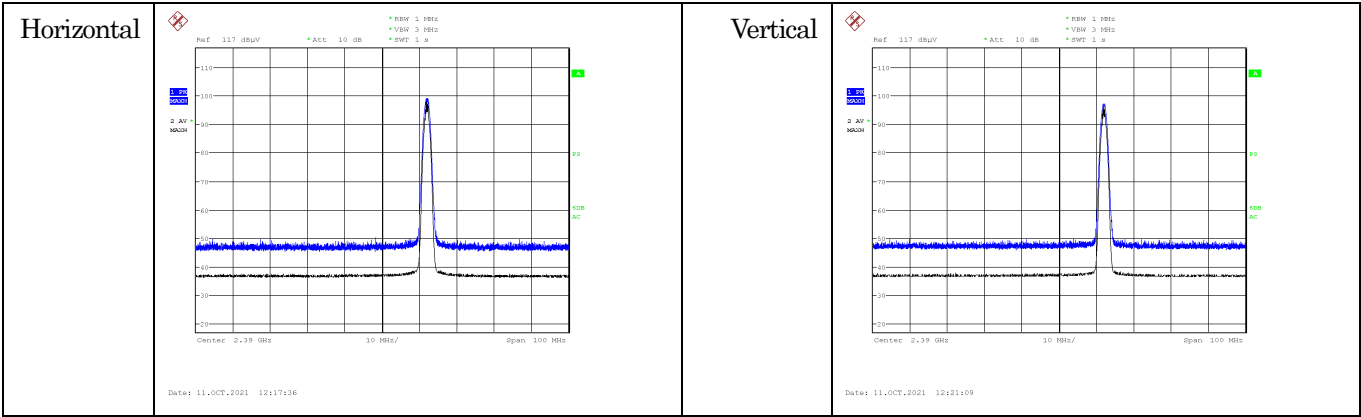
[BDR / 2402 MHz]



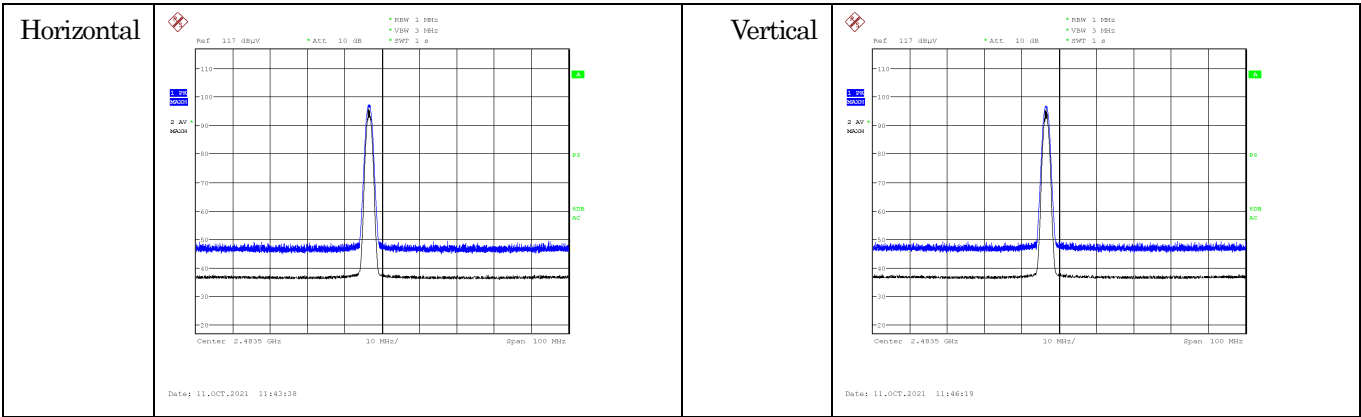
[BDR / 2480 MHz]



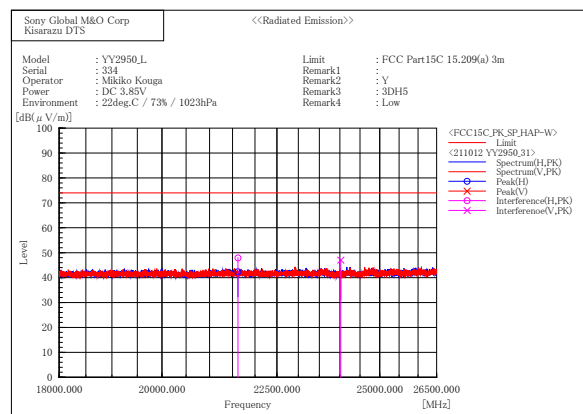
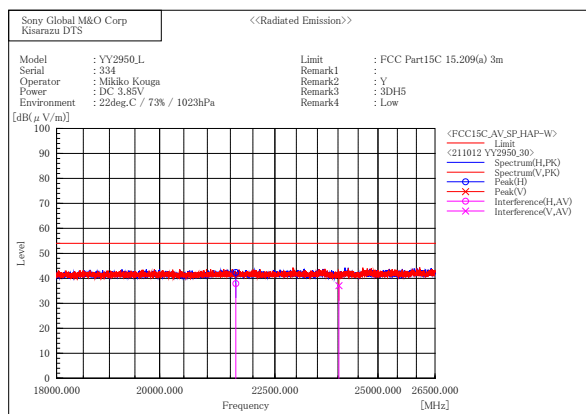
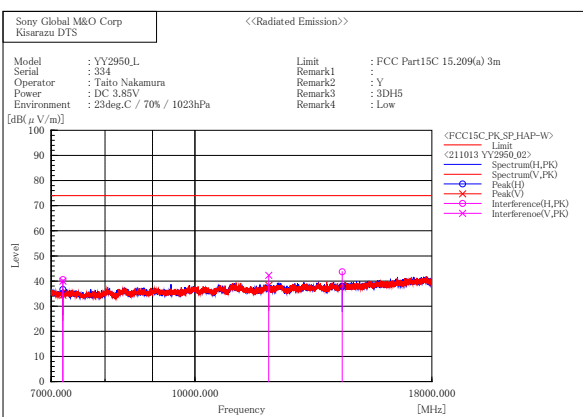
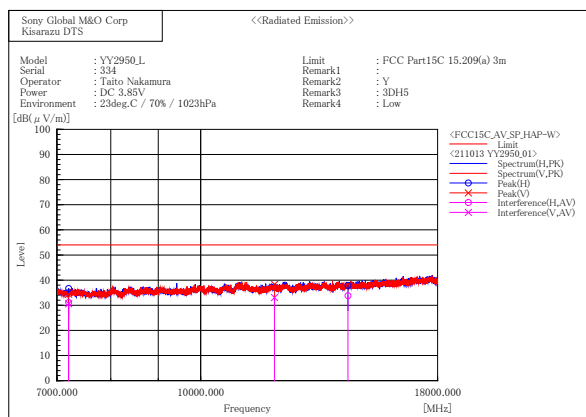
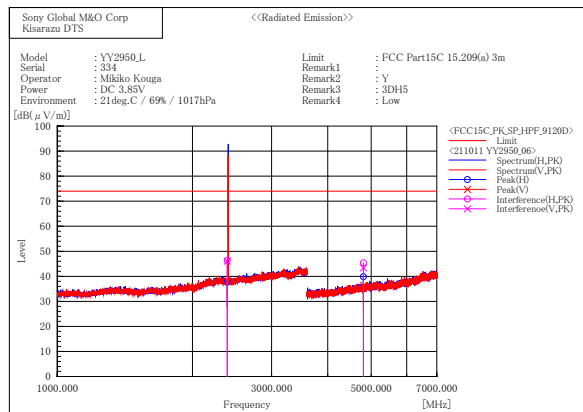
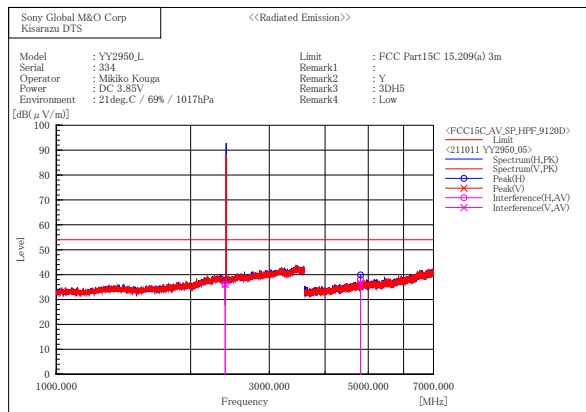
[EDR / 2402 MHz]



[EDR / 2480 MHz]



Plot data for above 1GHz in worst mode

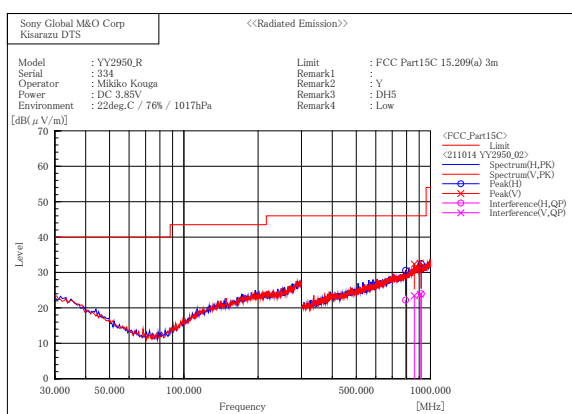
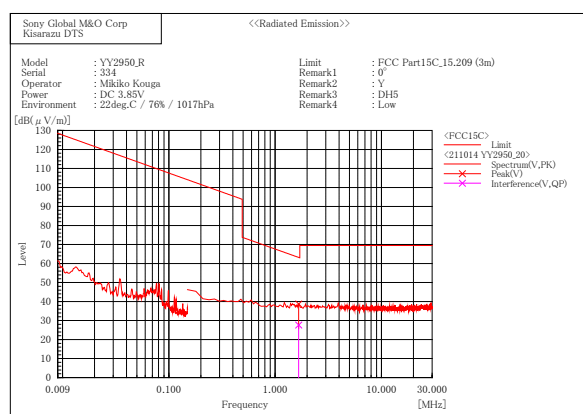


Right Unit

Measurement band	Date of measurement	Ambient temperature	Relative humidity	Measured by
9 kHz to 1000 MHz	October 14, 2021	22.0 deg.C	76.0 %	Mikiko Kouga
1 GHz to 7 GHz	October 7, 2021	22.0 deg.C	69.0 %	Mikiko Kouga
	October 8, 2021	22.0 deg.C	70.0 %	Taito Nakamura
	October 11, 2021	21.0 deg.C	69.0 %	Taito Nakamura, Mikiko Kouga
7 GHz to 18 GHz	October 12, 2021	22.0 deg.C	73.0 %	Taito Nakamura
18 GHz to 26.5 GHz	October 12, 2021	22.0 deg.C	73.0 %	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
792.401	QP	H	25.4	-3.2	22.2	≤ 46.0	23.8	198.0	25.5	Y
918.563	QP	H	25.0	-1.0	24.0	≤ 46.0	22.0	125.0	40.0	Y
1.665	QP	V	7.7	20.0	27.7	≤ 63.2	35.5	100.0	25.8	Y
859.640	QP	V	25.1	-1.6	23.5	≤ 46.0	22.5	255.0	80.5	Y
908.040	QP	V	25.0	-1.1	23.9	≤ 46.0	22.1	100.0	87.5	Y



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]	DCCF [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.5	-7.1	-	36.4	≤ 54.0	17.6	294.1	91.2	Y	10.0
2390.000	PK	H	53.4	-7.1	-	46.3	≤ 74.0	27.7	295.0	92.0	Y	-
4804.005	AV	H	43.2	-3.2	-	40.0	≤ 54.0	14.0	116.5	190.1	Y	10.0
4804.113	PK	H	49.4	-3.2	-	46.2	≤ 74.0	27.8	115.0	190.1	Y	-
7205.898	AV	H	42.9	-8.8	-	34.1	≤ 54.0	19.9	100.0	9.5	Y	10.0
7206.404	PK	H	51.0	-8.8	-	42.2	≤ 74.0	31.8	100.0	10.3	Y	-
16814.000	AV	H	37.2	-2.4	-	34.8	≤ 54.0	19.2	191.3	260.6	Y	10.0
16814.104	PK	H	48.7	-2.4	-	46.3	≤ 74.0	27.7	191.2	261.6	Y	-
19216.000	AV	H	38.6	-0.8	-	37.8	≤ 54.0	16.2	181.0	52.4	Y	10.0
19216.000	PK	H	48.4	-0.8	-	47.6	≤ 74.0	26.4	176.0	48.4	Y	-
2390.000	AV	V	43.3	-7.1	-	36.2	≤ 54.0	17.8	417.7	180.7	Y	10.0
2390.000	PK	V	53.2	-7.1	-	46.1	≤ 74.0	27.9	418.0	181.0	Y	-
4804.002	AV	V	43.2	-3.2	-	40.0	≤ 54.0	14.0	408.1	126.4	Y	10.0
4804.188	PK	V	49.3	-3.2	-	46.1	≤ 74.0	27.9	409.0	126.0	Y	-
7206.179	AV	V	40.7	-8.8	-	31.9	≤ 54.0	22.1	360.5	230.3	Y	10.0
7206.296	PK	V	50.0	-8.8	-	41.2	≤ 74.0	32.8	361.0	229.3	Y	-
12009.310	AV	V	42.5	-5.2	-	37.3	≤ 54.0	16.7	400.4	208.2	Y	10.0
12010.120	PK	V	49.8	-5.2	-	44.6	≤ 74.0	29.4	399.0	208.3	Y	-
21618.000	AV	V	39.1	-1.5	-	37.6	≤ 54.0	16.4	128.0	268.4	Y	10.0
21618.000	PK	V	49.5	-1.5	-	48.0	≤ 74.0	26.0	124.0	265.4	Y	-

[BDR (DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dBμV]	C.F. [dB/m]	DCCF [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4881.758	PK	H	49.2	-3.3	-	45.9	≤ 74.0	28.1	142.0	189.9	Y	-
4881.815	AV	H	42.2	-3.3	-	38.9	≤ 54.0	15.1	146.0	188.9	Y	10.0
7322.863	AV	H	42.3	-8.8	-	33.5	≤ 54.0	20.5	100.0	359.7	Y	10.0
7322.884	PK	H	50.3	-8.8	-	41.5	≤ 74.0	32.5	100.0	0.0	Y	-
17087.000	AV	H	36.6	-1.7	-	34.9	≤ 54.0	19.1	232.9	158.1	Y	10.0
17087.000	PK	H	47.5	-1.7	-	45.8	≤ 74.0	28.2	220.9	172.1	Y	-
19528.000	AV	H	38.1	-0.7	-	37.4	≤ 54.0	16.6	145.0	194.4	Y	10.0
19528.000	PK	H	48.5	-0.7	-	47.8	≤ 74.0	26.2	150.0	189.0	Y	-
4882.062	AV	V	41.4	-3.3	-	38.1	≤ 54.0	15.9	414.9	124.9	Y	10.0
4882.312	PK	V	48.7	-3.3	-	45.4	≤ 74.0	28.6	412.0	120.9	Y	-
7323.000	AV	V	39.2	-8.8	-	30.4	≤ 54.0	23.6	363.5	223.7	Y	10.0
7323.000	PK	V	49.3	-8.8	-	40.5	≤ 74.0	33.5	362.0	224.3	Y	-
12205.000	AV	V	37.8	-5.2	-	32.6	≤ 54.0	21.4	400.0	205.6	Y	10.0
12205.000	PK	V	47.9	-5.2	-	42.7	≤ 74.0	31.3	399.0	206.3	Y	-
21969.000	AV	V	39.2	-1.7	-	37.5	≤ 54.0	16.5	125.0	125.1	Y	10.0
21969.000	PK	V	48.9	-1.7	-	47.2	≤ 74.0	26.8	129.0	115.2	Y	-

[BDR (DH5) / 2480 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	44.9	-6.7	-	38.2	≤ 54.0	15.8	340.8	298.9	Y	10.0
2483.500	PK	H	55.7	-6.7	-	49.0	≤ 74.0	25.0	341.0	298.9	Y	-
4959.894	AV	H	38.4	-3.0	-	35.4	≤ 54.0	18.6	138.0	209.9	Y	10.0
4959.932	PK	H	46.2	-3.0	-	43.2	≤ 74.0	30.8	140.0	196.9	Y	-
7440.000	AV	H	39.3	-8.9	-	30.4	≤ 54.0	23.6	100.0	8.3	Y	10.0
7440.000	PK	H	48.6	-8.9	-	39.7	≤ 74.0	34.3	100.0	9.3	Y	-
14880.000	AV	H	38.7	-5.0	-	33.7	≤ 54.0	20.3	170.8	320.8	Y	10.0
14880.000	PK	H	48.2	-5.0	-	43.2	≤ 74.0	30.8	169.2	321.6	Y	-
24800.000	AV	H	40.2	-2.8	-	37.4	≤ 54.0	16.6	254.0	102.3	Y	10.0
24800.000	PK	H	51.0	-2.8	-	48.2	≤ 74.0	25.8	250.0	108.4	Y	-
2483.500	AV	V	43.9	-6.7	-	37.2	≤ 54.0	16.8	342.0	219.9	Y	10.0
2483.500	PK	V	53.6	-6.7	-	46.9	≤ 74.0	27.1	341.0	216.9	Y	-
4959.954	AV	V	37.8	-3.0	-	34.8	≤ 54.0	19.2	378.0	94.9	Y	10.0
4959.982	PK	V	45.5	-3.0	-	42.5	≤ 74.0	31.5	380.0	95.9	Y	-
7440.000	AV	V	40.2	-8.9	-	31.3	≤ 54.0	22.7	347.9	241.5	Y	10.0
7440.000	PK	V	49.0	-8.9	-	40.1	≤ 74.0	33.9	346.0	242.7	Y	-
12400.000	AV	V	38.6	-5.4	-	33.2	≤ 54.0	20.8	197.0	213.2	Y	10.0
12400.000	PK	V	49.3	-5.4	-	43.9	≤ 74.0	30.1	194.7	217.7	Y	-
19840.000	AV	V	38.0	-0.7	-	37.3	≤ 54.0	16.7	278.0	261.4	Y	10.0
19840.000	PK	V	48.6	-0.7	-	47.9	≤ 74.0	26.1	280.0	267.8	Y	-

[EDR (3DH5) / 2402 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2390.000	AV	H	43.0	-7.1	-	35.9	≤ 54.0	18.1	287.0	100.1	Y	10.0
2390.000	PK	H	52.8	-7.1	-	45.7	≤ 74.0	28.3	288.0	100.0	Y	-
4804.010	PK	H	48.3	-3.2	-	45.1	≤ 74.0	28.9	100.0	197.9	Y	-
4804.026	AV	H	41.7	-3.2	-	38.5	≤ 54.0	15.5	100.0	199.8	Y	10.0
7206.095	AV	H	42.0	-8.8	-	33.2	≤ 54.0	20.8	100.0	2.7	Y	10.0
7206.175	PK	H	50.6	-8.8	-	41.8	≤ 74.0	32.2	100.0	3.3	Y	-
9608.000	AV	H	37.1	-6.0	-	31.1	≤ 54.0	22.9	305.6	25.1	Y	10.0
9608.000	PK	H	47.1	-6.0	-	41.1	≤ 74.0	32.9	304.0	26.3	Y	-
21618.000	AV	H	39.5	-1.5	-	38.0	≤ 54.0	16.0	211.0	215.4	Y	10.0
21618.000	PK	H	49.0	-1.5	-	47.5	≤ 74.0	26.5	208.0	221.4	Y	-
2390.000	AV	V	42.9	-7.1	-	35.8	≤ 54.0	18.2	418.7	187.4	Y	10.0
2390.000	PK	V	53.1	-7.1	-	46.0	≤ 74.0	28.0	417.0	187.9	Y	-
4803.874	AV	V	42.4	-3.2	-	39.2	≤ 54.0	14.8	343.1	117.9	Y	10.0
4803.969	PK	V	48.4	-3.2	-	45.2	≤ 74.0	28.8	342.0	117.9	Y	-
7206.000	AV	V	39.5	-8.8	-	30.7	≤ 54.0	23.3	100.0	60.9	Y	10.0
7206.000	PK	V	49.4	-8.8	-	40.6	≤ 74.0	33.4	100.0	61.3	Y	-
12009.240	AV	V	40.6	-5.2	-	35.4	≤ 54.0	18.6	297.1	250.3	Y	10.0
12009.400	PK	V	48.1	-5.2	-	42.9	≤ 74.0	31.1	177.0	226.3	Y	-
19216.000	AV	V	38.2	-0.8	-	37.4	≤ 54.0	16.6	396.0	77.4	Y	10.0
19216.000	PK	V	47.9	-0.8	-	47.1	≤ 74.0	26.9	388.0	84.6	Y	-

[EDR (3DH5) / 2441 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
4881.816	PK	H	48.4	-3.3	-	45.1	≤ 74.0	28.9	100.0	210.9	Y	-
4881.849	AV	H	41.9	-3.3	-	38.6	≤ 54.0	15.4	100.0	209.9	Y	10.0
7323.072	AV	H	41.5	-8.8	-	32.7	≤ 54.0	21.3	100.0	20.5	Y	10.0
7323.080	PK	H	49.7	-8.8	-	40.9	≤ 74.0	33.1	100.0	21.3	Y	-
12205.000	AV	H	37.9	-5.2	-	32.7	≤ 54.0	21.3	284.0	294.3	Y	10.0
12205.000	PK	H	47.7	-5.2	-	42.5	≤ 74.0	31.5	283.0	295.3	Y	-
19528.000	AV	H	37.9	-0.7	-	37.2	≤ 54.0	16.8	261.0	159.4	Y	10.0
19528.000	PK	H	48.2	-0.7	-	47.5	≤ 74.0	26.5	248.0	169.4	Y	-
4881.689	AV	V	40.5	-3.3	-	37.2	≤ 54.0	16.8	375.0	117.0	Y	10.0
4882.068	PK	V	47.8	-3.3	-	44.5	≤ 74.0	29.5	376.0	120.0	Y	-
7323.000	AV	V	38.5	-8.8	-	29.7	≤ 54.0	24.3	100.0	85.4	Y	10.0
7323.000	PK	V	48.4	-8.8	-	39.6	≤ 74.0	34.4	100.0	86.3	Y	-
17087.000	AV	V	36.5	-1.7	-	34.8	≤ 54.0	19.2	160.0	241.3	Y	10.0
17087.000	PK	V	46.1	-1.7	-	44.4	≤ 74.0	29.6	159.0	242.4	Y	-
24410.000	AV	V	40.2	-2.8	-	37.4	≤ 54.0	16.6	100.0	71.4	Y	10.0
24410.000	PK	V	50.2	-2.8	-	47.4	≤ 74.0	26.6	100.0	81.0	Y	-

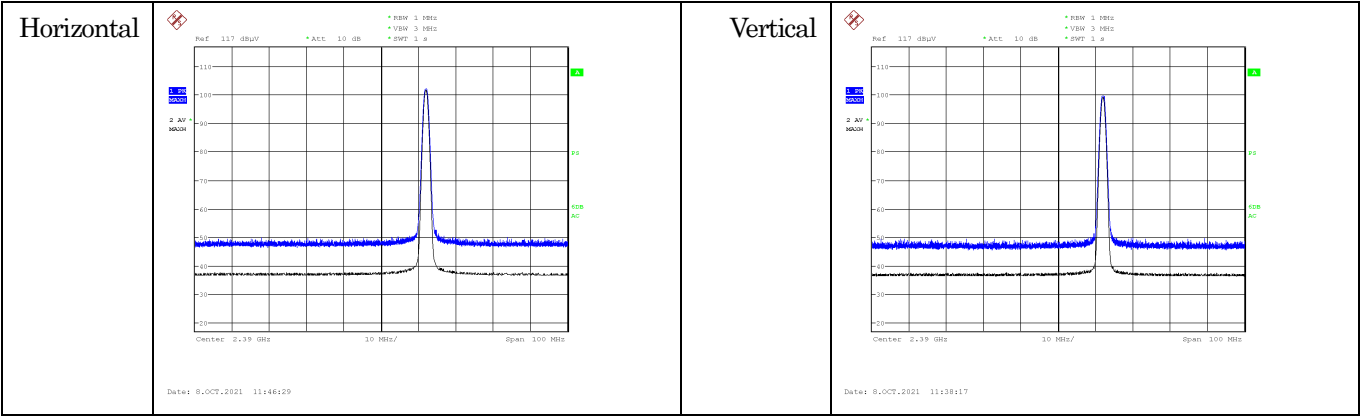
[EDR (3DH5) / 2480 MHz]

Frequency [MHz]	Detector	Polar.	Reading [dB μ V]	C.F. [dB/m]	DCCF [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [degree]	EUT Position	VBW [kHz]
2483.500	AV	H	45.8	-6.7	-	39.1	≤ 54.0	14.9	341.0	290.9	Y	10.0
2483.500	PK	H	57.1	-6.7	-	50.4	≤ 74.0	23.6	345.0	291.0	Y	-
4959.983	AV	H	37.8	-3.0	-	34.8	≤ 54.0	19.2	148.1	185.0	Y	10.0
4960.017	PK	H	46.5	-3.0	-	43.5	≤ 74.0	30.5	151.0	186.7	Y	-
7438.908	PK	H	50.0	-8.9	-	41.1	≤ 74.0	32.9	100.0	11.3	Y	-
7439.424	AV	H	42.0	-8.9	-	33.1	≤ 54.0	20.9	100.0	10.0	Y	10.0
17360.000	AV	H	37.1	-1.4	-	35.7	≤ 54.0	18.3	355.5	185.8	Y	10.0
17360.000	PK	H	48.1	-1.4	-	46.7	≤ 74.0	27.3	255.6	319.3	Y	-
24800.000	AV	H	40.4	-2.8	-	37.6	≤ 54.0	16.4	140.0	296.4	Y	10.0
24800.000	PK	H	50.6	-2.8	-	47.8	≤ 74.0	26.2	150.0	272.2	Y	-
2483.500	AV	V	44.5	-6.7	-	37.8	≤ 54.0	16.2	347.0	218.9	Y	10.0
2483.500	PK	V	55.6	-6.7	-	48.9	≤ 74.0	25.1	348.0	215.9	Y	-
4959.929	AV	V	37.2	-3.0	-	34.2	≤ 54.0	19.8	395.0	91.9	Y	10.0
4960.637	PK	V	45.1	-3.0	-	42.1	≤ 74.0	31.9	396.0	88.9	Y	-
7440.000	AV	V	39.2	-8.9	-	30.3	≤ 54.0	23.7	180.8	10.7	Y	10.0
7440.000	PK	V	48.9	-8.9	-	40.0	≤ 74.0	34.0	179.0	11.6	Y	-
12400.000	AV	V	38.4	-5.4	-	33.0	≤ 54.0	21.0	257.7	94.5	Y	10.0
12400.000	PK	V	48.4	-5.4	-	43.0	≤ 74.0	31.0	257.0	95.3	Y	-
19840.000	AV	V	38.2	-0.7	-	37.5	≤ 54.0	16.5	398.0	218.4	Y	10.0
19840.000	PK	V	47.6	-0.7	-	46.9	≤ 74.0	27.1	396.0	220.4	Y	-

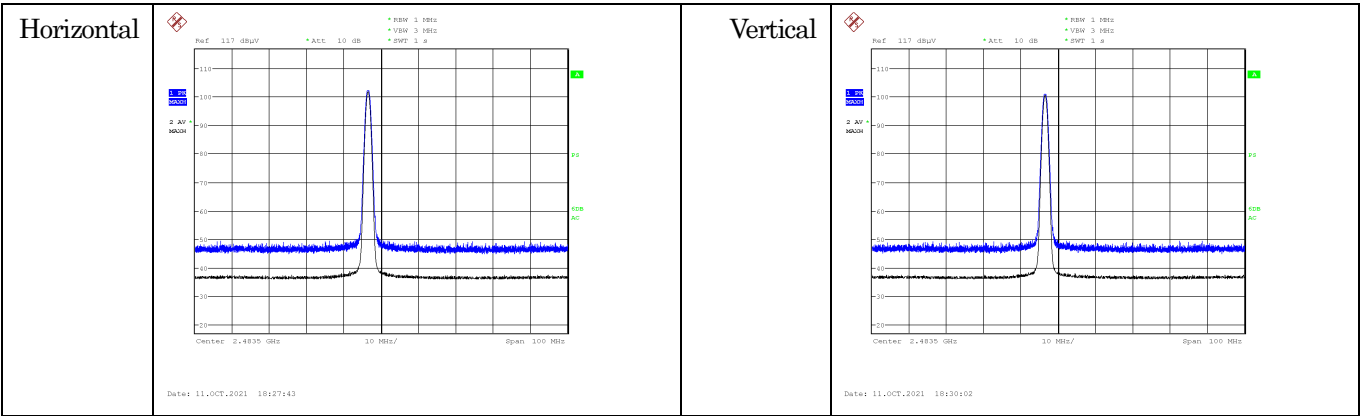
Plot data for 2.4 GHz Restricted-Band Edge)

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.

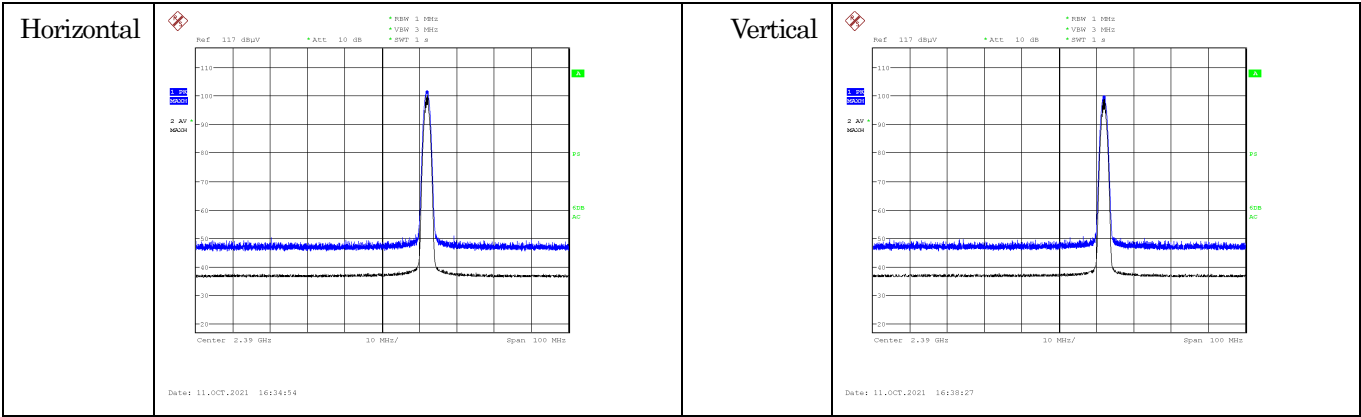
[BDR / 2402 MHz]



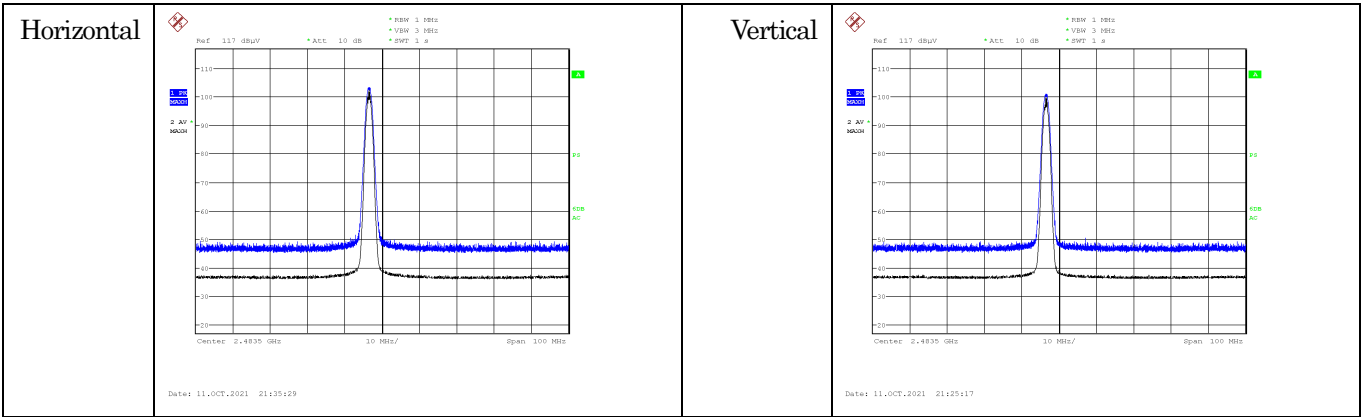
[BDR / 2480 MHz]



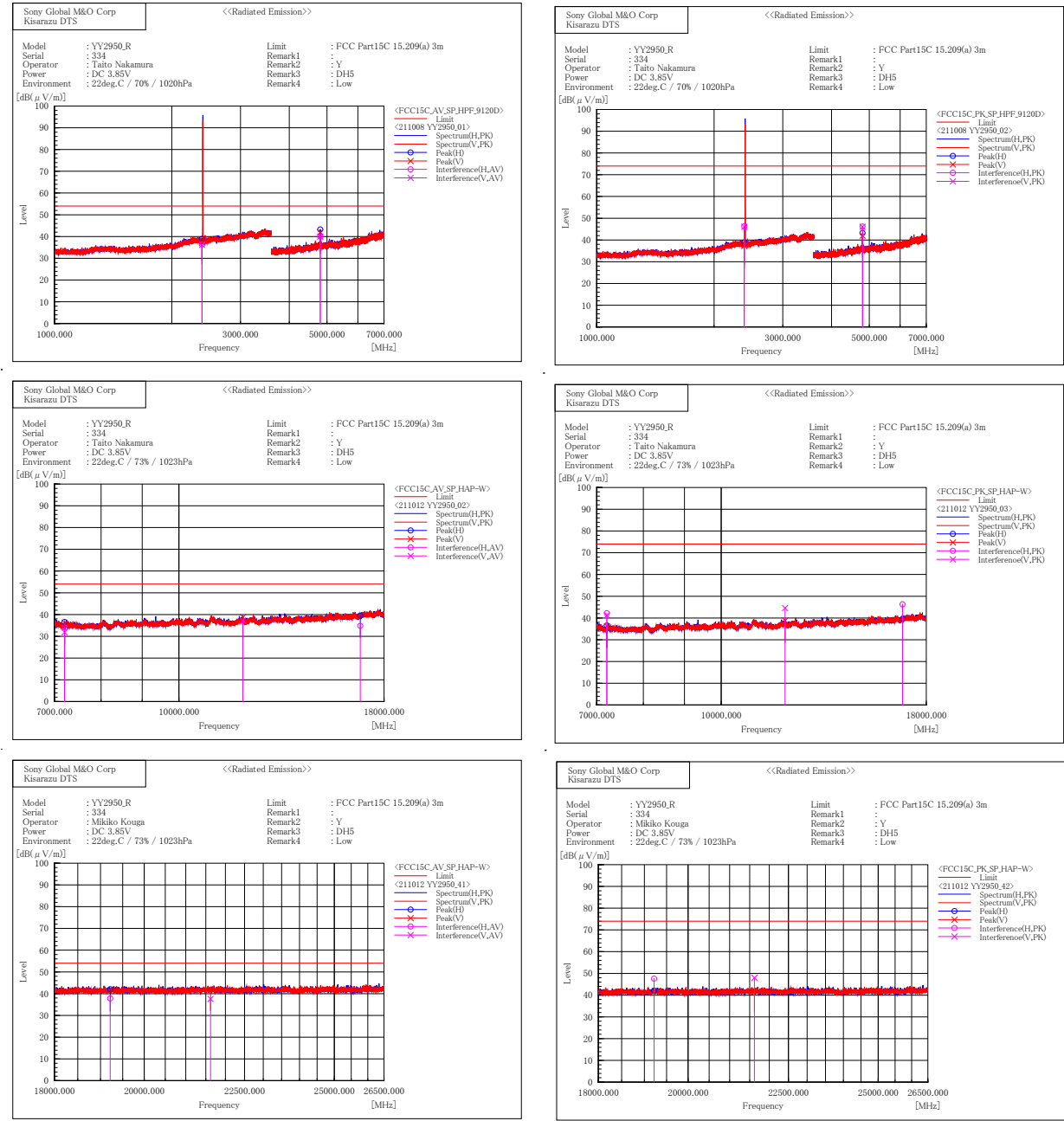
[EDR / 2402 MHz]



[EDR / 2480 MHz]



Plot data for above 1GHz in worst mode

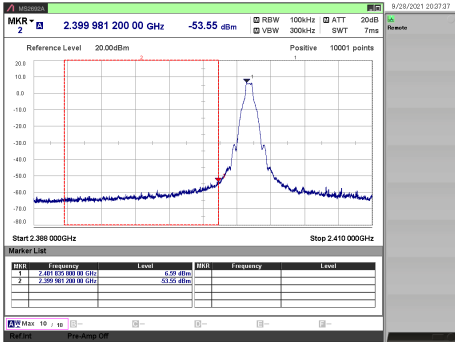


3.8. Conducted Spurious Emissions for Band Edge

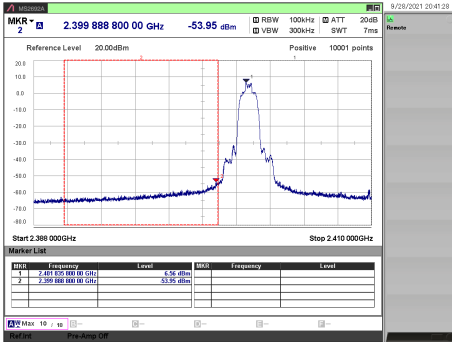
Date of measurement		Ambient temperature		Relative humidity		Measured by	
September 28, 2021		24.0 deg.C		60.8 %		Mikiko Kouga	

Mode		Channel [MHz]	Frequency [MHz]	Reading [dBm]	C.F. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
BDR	DH5	2402	2401.84	6.59	2.25	8.84	-	-
			2399.98	-53.55	2.25	-51.30	≤ -11.16	40.14
EDR	3DH5	2402	2401.84	6.56	2.25	8.81	-	-
			2399.89	-53.95	2.25	-51.70	≤ -11.19	40.51

[BDR]



[EDR]



4. Method of Calculation

4.1. AC Power-line Conducted Emissions

Method of calculation : Software
 Software Name : EP9/ CE
 Software Version : Ver4.4.050

Test Result [dBuV] = Meter Reading [dBuV] + 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.
 (c) 31.6 : $0.4 \text{ [sec]} * \text{Number of Hopping Frequencies (79)}$
 (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

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

Test Result (AV) [dBm] = Meter Reading [dBm] + C.F. [dB] + Duty Factor [dB]

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

Note (a) Meter Reading : Reading of the power meter
 (b) C.F. : System Cable Loss + EUT Cable Loss
 (c) Duty Factor : $10\log \{T \text{ (Tx ON Time)} / T_{\text{(on+off)}} \text{ (Tx ON Time + Tx OFF Time)}\}$

4.4. Radiated Spurious Emissions

Method of calculation : Software
Software Name : V-Scan
Software Version : Ver.4.0.30

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

DCCF Result [dBuV/ m] = Meter Reading (for peak detector) [dBuV] + C.F. [dB/ m] + DCCF [dB]

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)
(c) DCCF : 20log (Maximum dwell time in any 100ms [ms] / 100 [ms])

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

Used	Ctrl#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
x	M5342	EMI Receiver	ESW8	101137	Rohde & Schwarz	12 months	21.04.01
-	CS0043	Fourth Site CE Cable SYSTEM	-	-	-	12 months	21.06.06
x	CS0058	Fourth Site CE Cable SYSTEM	-	-	-	12 months	21.06.06
-	M0664	6dB Attenuator	6806.01A	-	HUBER+SUHNER AG	12 months	21.06.06
-	M0514	LISN	ENV216	100424	Rohde & Schwarz	12 months	21.04.01
x	M0606	LISN/AMN	ENV216	101306	Rohde & Schwarz	12 months	21.04.01
-	M2289	LISN	KNW-407	8-1182-12	Kyoritsu	12 months	21.04.01
-	M2290	LISN	KNW-242C	8-1183-1	Kyoritsu	12 months	21.04.01
-	M0153	50 ohm Terminator	CT-01	-	TME	12 months	21.04.01
-	M0597	50 ohm Terminator	CT-01	-	TME	12 months	21.06.01
-	M2292	50 ohm Terminator	T1302	-	Stack	12 months	21.04.01
-	M2293	50 ohm Terminator	T1302	-	Stack	12 months	21.04.01
x	M5061	Scientific Ambient Monitor	0560 6220	39515471/801	testo	12 months	21.04.02
x	M3528	Temperature Meter	608-H2	30038344	testo	24 months	21.08.05

5.2. Antenna-port Conducted Measurements

	Ctrl#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
-	W0140	Spectrum Analyzer	FSU26	200717	Rohde & Schwarz	12 months	20.10.02
-	W0100	Spectrum Analyzer	MS2692A	6201338954	Anritsu	12 months	21.10.01
x	W0101	Spectrum Analyzer	MS2692A	6201338955	Anritsu	12 months	20.10.03
x	W0006	Power Meter	N1911A	MY50000295	Keysight Technologies	12 months	20.10.03
x	W0007	Power Sensor	N1922A	MY50180022	Keysight Technologies	12 months	20.10.03
-	W0029	10dB Attenuator	8493C	76549	Keysight Technologies	12 months	20.10.02
-	WC0002	RF Cable	SUCOFLEX 102	34124/2	HUBER + SUHNER	12 months	20.10.02
-	WC0003	RF Cable	SUCOFLEX 102	34127/2	HUBER + SUHNER	12 months	20.10.02
-	WC0004	RF Cable	SUCOFLEX 102	34288/2	HUBER + SUHNER	12 months	20.10.02
x	WC0005	RF Cable	SUCOFLEX 102	34287/2	HUBER + SUHNER	12 months	20.10.02
-	WC0006	RF Cable	SUCOFLEX 102	34289/2	HUBER + SUHNER	12 months	20.10.02
-	WC0007	RF Cable	SUCOFLEX 102	34286/2	HUBER + SUHNER	12 months	20.10.02
-	M0720	Thermometer	TH-321	140036	AS ONE	12 months	21.08.05
x	M0719	Thermometer	TH-321	140053	AS ONE	12 months	21.04.02

5.3. Radiated Spurious Emissions

Used	Ctrl#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
x	M0504	EMI Receiver	ESU40	100086	Rohde & Schwarz	12 months	20.12.02
x	A0073	Loop Antenna	HFH2-Z2	100171	Rohde & Schwarz	12 months	20.12.01
x	A0043	Biconical Antenna	BBA9106	V5(91032598)	Schwarzbeck	12 months	20.12.07
x	A0046	Log periodic Antenna	UHALP9108A1	0830	Schwarzbeck	12 months	20.12.07
x	A0056	Horn Antenna	BBHA9120D	670	Schwarzbeck	12 months	21.06.06
x	A0057	Horn Antenna	HAP06-18W	00000037	Toyo Corporation	12 months	21.06.06
x	A0058	Horn Antenna	HAP18-26W	00000016	Toyo Corporation	12 months	21.02.05
-	CS0037	Fourth Site RE Cable SYS1	-	-	-	12 months	21.06.06
x	CS0039	Fourth Site RE Cable SYS3	-	-	-	12 months	21.06.06
x	CS0054	Fourth Site EMF Cable SYS	-	-	-	12 months	21.06.06
x	M1055	GHz Filter Box	WSF-109	17111786	Wakoh	12 months	21.06.06
x	M0510	RF Selector	NS4900	0802-226	Toyo Corporation	12 months	21.06.06
x	M0620	RF Pre-Amp	8447D	2944A10720	Agilent Technologies	12 months	21.06.06
x	M0706	3dB Attenuator	8491A	MY39267782	Agilent Technologies	12 months	21.06.06
x	M5151	Temperature Meter	608-H2	41475968	testo	24 months	19.11.20
x	M5061	Scientific Ambient Monitor	0560 6220	39515471/801	testo	12 months	21.04.02

About calibration interval

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