

RADIO TEST REPORT

Test Report No. 15897091H-A-R1

Customer	Yamato Scale Co., Ltd.
Description of EUT	RFID Reader Unit
Model Number of EUT	RRU-10
FCC ID	2BUCXRRU10
Test Regulation	FCC Part 15 Subpart C
Test Result	Complied
Issue Date	July 6, 2026
Remarks	-

Representative test engineerNachi Konegawa
Engineer**Approved by**Takayuki Shimada
Leader

CERTIFICATE 5107.02

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

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- For any test report referred in this report, the latest version (including any revisions) is always referred to.
- If the latest version is a revision, it replaces the previous version. See the table below for revisions and versions.

REVISION HISTORY

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	15897091H-A	April 20, 2026	-
1	15897091H-A-R1	July 6, 2026	Section 2.2: Correction of Operating Temperature: from 13.56 MHz, 32 MHz, 40 MHz to -10 deg. C to 40 deg. C

Reference: Abbreviations (Including words undescribed in this report)

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

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SECTION 1: Customer Information

Company Name	Yamato Scale Co., Ltd.
Address	5-22, Saenba-cho, Akashi, Hyogo, 673-8688, Japan
Telephone Number	+81-78-918-5540
Contact Person	Daisuke Nakatsuka

The information provided by the customer is as follows;

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

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	RFID Reader Unit
Model Number	RRU-10
Serial Number	Refer to SECTION 4.2
Condition	Mass Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	February 27, 2026
Test Date	March 5 to 17, 2026

2.2 Product Description

General Specification

Rating	DC 5.0 V AC 85 V to 264 V (Representative AC power supply)
Operating Temperature	-10 deg. C to 40 deg. C

Radio Specification

Equipment Type	Transceiver
Frequency of Operation	13.56 MHz
Type of Modulation	ASK

SECTION 3: Test Summary

3.1 Test Specification

Test Specification	FCC Part 15 Subpart C The latest version on the first day of the testing period
Title	FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators Section 15.207 Conducted limits Section 15.225 Operation within the band 13.110-14.010 MHz.

* Also the EUT complies with FCC Part 15 Subpart B.

3.2 Reference Standards

ANSI/USEMCSC C63.2-2023
ANSI C63.4-2014+C63.4a-2017
ANSI C63.5-2017
ANSI C63.10-2020
ANSI/USEMCSC C63.10/Cor 1-2023
ANSI/USEMCSC C63.10a-2024 (incl. Errata) for ISED
ANSI C63.25.1-2018

3.3 Summary of Test Results

Item	Specification	Results	Remarks
Conducted Emission	<FCC> Section 15.207 ----- <ISED> RSS-Gen 8.8	Complied	-
Electric Field Strength of Fundamental Emission	<FCC> Section 15.225(a) ----- <ISED> RSS-210 B.6 (a)	Complied	Radiated
Spectrum Mask	<FCC> Section 15.225(b)(c) ----- <ISED> RSS-210 B.6 (a)	Complied	Radiated
20 dB Bandwidth	<FCC> Section15.215(c) ----- <ISED> -	Complied	Radiated
Electric Field Strength of Spurious Emission	<FCC> Section 15.209, Section 15.225 (d) ----- <ISED> RSS-210 B.6 (a) RSS-Gen 8.9	Complied	Radiated
Frequency Tolerance	<FCC> Section 15.225(e) ----- <ISED> RSS-210 B.6 (b)	Complied	Radiated

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

FCC Part 15.31 (e)

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

However, the supply voltage was varied and tested at minimum and maximum values of the voltage range of a representative AC power supply during frequency tolerance test, in accordance with Section 15.225(e).

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT.

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

3.4 Addition to standard

Item	Test Procedure	Results	Remarks
99% emission bandwidth	<ISED>RSS-Gen 6.7	-	Radiated
Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.			
Other than above, no addition, exclusion nor deviation has been made from the standard.			

3.5 Uncertainty

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

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

Conducted emission

Item	Frequency range	Unit	Calculated Uncertainty (+/-)
AMN (LISN)	0.15 MHz to 30 MHz	dB	3.4

Radiated emission

Measurement distance	Frequency range		Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz		dB	4.8
10 m			dB	4.7
3 m	30 MHz to 200 MHz	Horizontal	dB	5.0
		Vertical	dB	5.0
	200 MHz to 1000 MHz	Horizontal	dB	5.2
		Vertical	dB	6.2
10 m	30 MHz to 200 MHz	Horizontal	dB	5.5
		Vertical	dB	5.4
	200 MHz to 1000 MHz	Horizontal	dB	5.5
		Vertical	dB	5.5
3 m	1 GHz to 6 GHz		dB	5.1
	6 GHz to 18 GHz		dB	5.5
1 m	6 GHz to 18 GHz		dB	5.5
	18 GHz to 26.5 GHz		dB	5.7
	26.5 GHz to 40 GHz		dB	4.8
0.5 m	18 GHz to 40 GHz		dB	5.8

-20 dB Bandwidth and 99% Occupied Bandwidth, Frequency Tolerance

Item	Unit	Calculated Uncertainty (+/-)
Bandwidth (OBW)	%	0.96
Frequency Readout (Frequency counter)	ppm	0.67
Frequency Readout (Spectrum analyzer frequency readout function)	ppm	2.13

3.6 Test Location

UL Japan, Inc. Ise EMC Lab.

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

Telephone: +81-596-24-8999

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

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

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

* Size of vertical conducting plane (for Conducted Emission test): 2.0 x 3.0 m for No.1, No.2, No.3, No.4, and No.5 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.7 Test data, Test instruments, and Test set up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

The mode is used:

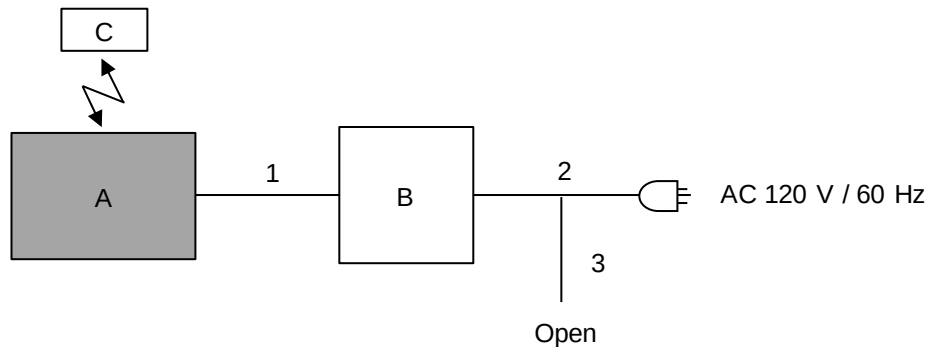
Test mode	Remarks
1) Transmitting mode (Tx) Felica (212 kbps)	The EUT Transmits and Receives at the same time and there is no receiving mode.
2) Transmitting mode (Tx) Type A (106 kbps)	
3) Transmitting mode (Tx) ISO15693 (26 kbps)	
4) Continuous Read mode	
The EUT was operated in a manner similar to typical use during the tests.	
*Power of the EUT was set by the software as follows; Software: rfid_convert Version: 0.00.03UL (Date: January 7, 2026, Storage location: EUT memory)	
*This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	
Justification: The system was configured in typical fashion (as a user would normally use it) for testing.	

Test Item	Operating mode*
Conducted Emission	Tx Mod on, with Tag *1)
Electric Field Strength of Fundamental Emission	Tx Mod on, with Tag *1)
Spectrum Mask	Tx Mod on, with Tag *1)
20 dB Bandwidth and 99 % Occupied Bandwidth	Tx Mod on, with Tag and without Tag
Electric Field Strength of Spurious Emission	Tx Mod on, with Tag *1)
Frequency Tolerance	Tx Mod on, without Tag

*1) This EUT has two modes which Tag is attached or not. The worst case was confirmed with and without Tag attached, as a result, the test with Tag attached was the worst case. Therefore the test with Tag attached was performed only.

Frequency Tolerance	
Temperature	-20 deg. C to +50 deg. C: Step 10 deg. C
Voltage	Normal Voltage AC 120 V Maximum Voltage AC 264 V Minimum Voltage AC 85 V
*This EUT provides stable voltage constantly to RF Part regardless of input voltage * As specified in the product design, the EUT has a fixed rated DC input voltage of 5.0 V with no allowable variation; therefore, the test was conducted by varying the voltage within the range of a representative AC power supply.	

4.2 Configuration and peripherals



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

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remark
A	RFID Reader Unit	RRU-10	4/JXA240022	Yamato Scale Co., Ltd.	EUT
B	Display Unit	RCU-940	7/JXA250008	Yamato Scale Co., Ltd.	-
C	Tag	Felica Lite-S	-	TAKAYA Corporation	Mode 1
		ICODE-SLIX2	-	TAKAYA Corporation	Mode 2
		Mifare Classic 1K	-	TAKAYA Corporation	Mode 3

List of Cables Used

No.	Name	Length (m)	Shield		Remark
			Cable	Connector	
1	Signal Cable	0.8	Unshielded	Unshielded	-
2	AC Cable	8.5	Unshielded	Unshielded	-
3	Signal Cable	8.5	Unshielded	Unshielded	-

SECTION 5: Conducted Emission

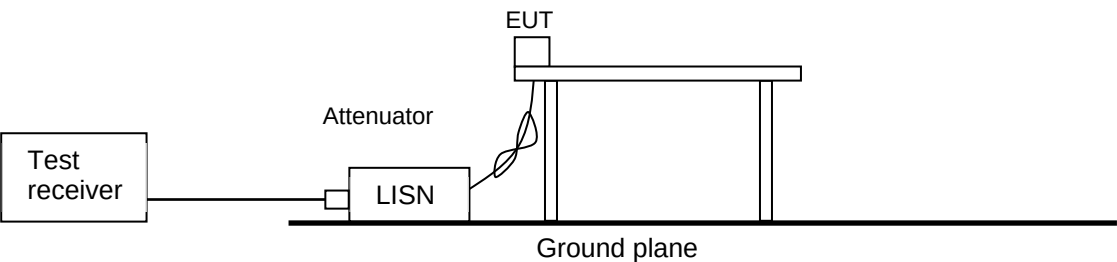
Test Procedure and conditions

EUT was placed on the platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.
The rear of the platform was located 40 cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of the platform. All other surfaces of the platform were at least 80 cm from any other grounded conducting surface. EUT was located 80 cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

1) For the tests on EUT with other peripherals (as a whole system)
I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane. All unused 50 ohm connectors of the LISN (AMN) were resistivity terminated in 50 ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber.
The EUT was connected to a LISN (AMN).
An overview sweep with peak detection has been performed.

Figure 1: Test Setup



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

Detector	: QP and CISPR AV
Measurement range	: 0.15 MHz to 30 MHz
Test data	: APPENDIX
Test result	: Pass

SECTION 6: Radiated Emission (Fundamental, Spurious Emission and Spectrum Mask)

Test Procedure

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

[Limit conversion]

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

[Frequency: From 9 kHz to 30 MHz]

The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for vertical polarization (antenna angle: 0 deg., 45 deg., 90 deg., and 135 deg.) and horizontal polarization.

*Refer to Figure 3 about Direction of the Loop Antenna.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open field 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.

These tests were performed in semi anechoic chamber. Therefore the measured level of emissions may be higher than if measurements were made without a ground plane. However test results were confirmed to pass against standard limit.

[Frequency: From 30 MHz to 1 GHz]

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

The measurements were performed for both vertical and horizontal antenna polarization.

[Test instruments and test settings]

Frequency	Below 30 MHz	30 MHz to 200 MHz	200 MHz to 1 GHz
Antenna Type	Loop	Biconical	Logperiodic

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

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

Frequency	From 9 kHz to 90 kHz and From 110 kHz to 150 kHz	From 90 kHz to 110 kHz	From 150 kHz to 490 kHz	From 490 kHz to 30 MHz	From 30 MHz to 1 GHz
Instrument used	Test Receiver				
Detector	PK / AV	QP	PK / AV	QP	QP
IF Bandwidth	200 Hz	200 Hz	9 kHz	9 kHz	120 kHz
Test Distance	3 m *1)	3 m *1)	3 m *1)	3 m *2)	3 m

*1) Distance Factor: $40 \times \log (3 \text{ m} / 300 \text{ m}) = -80 \text{ dB}$

*2) Distance Factor: $40 \times \log (3 \text{ m} / 30 \text{ m}) = -40 \text{ dB}$

Figure 2: Test Setup

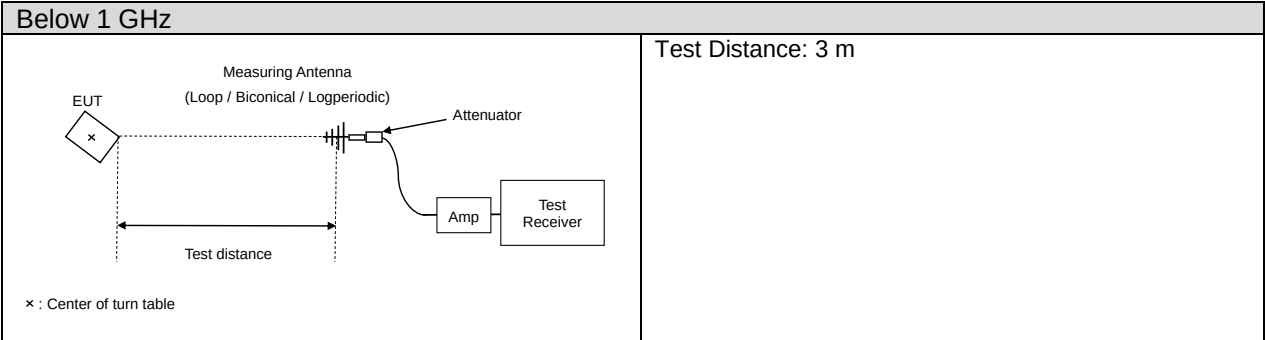
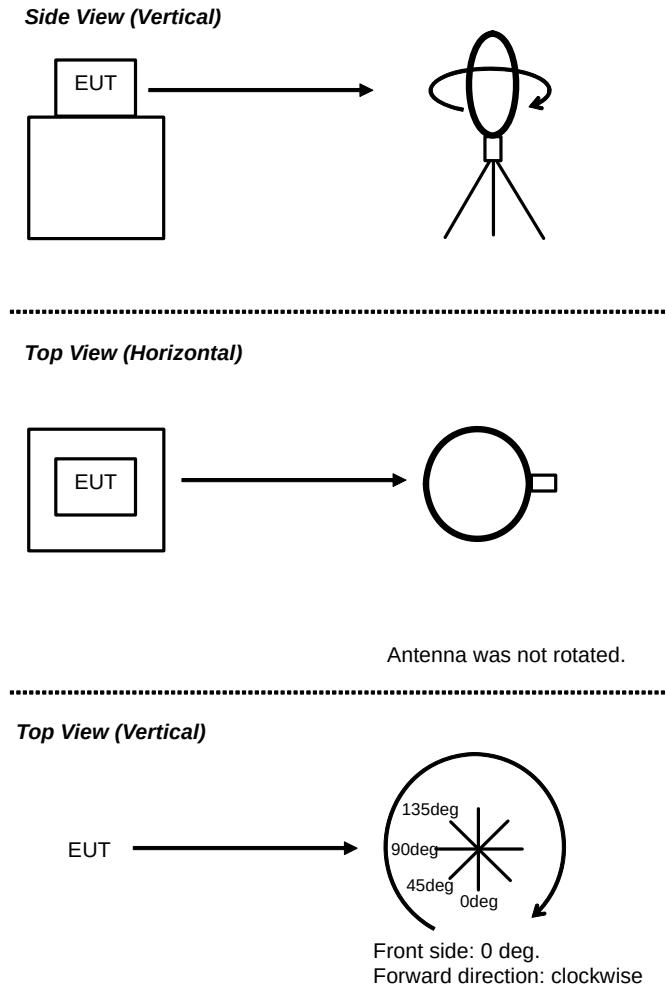


Figure 3: Direction of the Loop Antenna



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

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

Measurement range : 9 kHz to 1 GHz
Test data : APPENDIX
Test result : Pass

SECTION 7: Other tests

Test	Span	RBW	VBW	Sweep	Detector	Trace	Instrument used
20 dB Bandwidth	2 times to 5 times of OBW	1 to 5 % of OBW *3)	Three times of RBW	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth	1.5 times to 5 times of OBW	1 to 5 % of OBW *3)	Three times of RBW	Auto	Peak *1)	Max Hold *1)	Spectrum Analyzer
Frequency Tolerance	-	-	-	-	-	-	Spectrum Analyzer *2)
*1) The measurement was performed with Peak detector, Max Hold since the duty cycle was not 100 %. *2) The measurement was performed with Marker Frequency Counter Function. *3) Since the transmitter signal is CW-like it is impractical to use a RBW setting of 1 - 5% of the emission bandwidth since the emission bandwidth will be proportional to the RBW.							

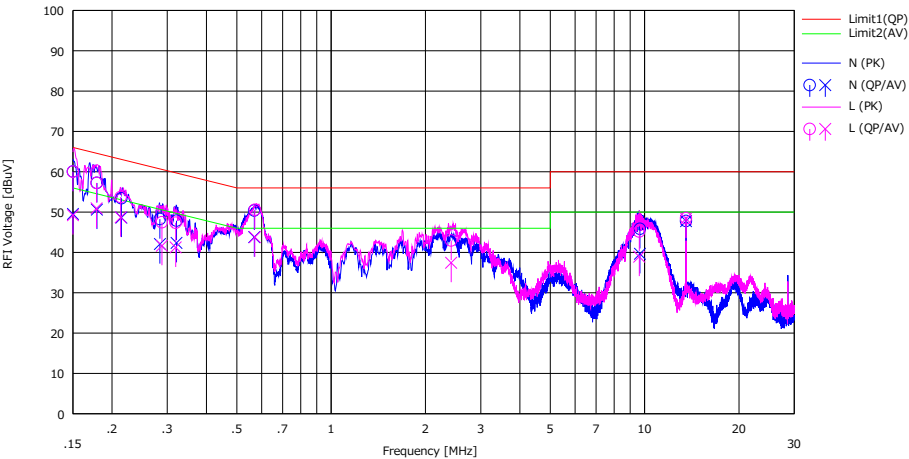
Test data : APPENDIX
Test result : Pass

APPENDIX 1: Test data

Conducted Emission

Mode	1			
Date	Test site	Temperature	Humidity	Engineer
March 5, 2026	SAC4	23 deg. C	36 % RH	Shousei Hamaguchi

Limit : FCC_Part 15 Subpart C(15.207) / RSS-Gen 8.8



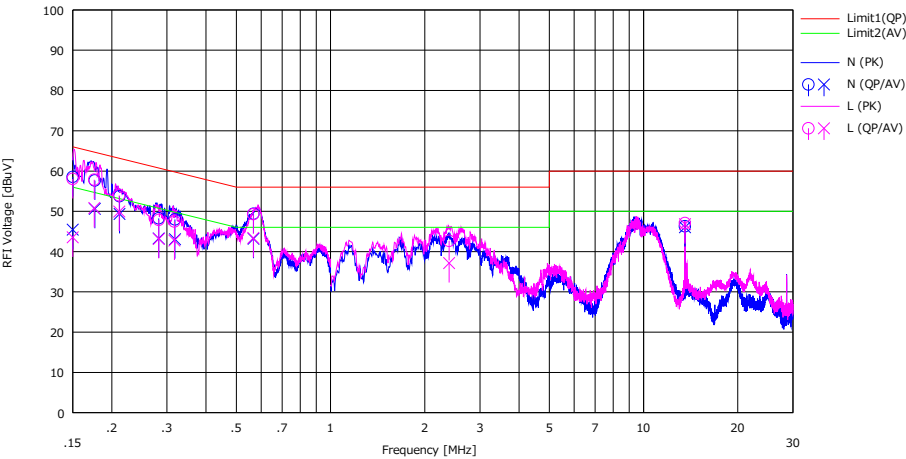
No.	Freq. [MHz]	Reading		LISN	LOSS	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]			<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15000	46.80	36.30	0.05	13.18	60.03	49.53	66.00	56.00	5.97	6.47	N	
2	0.17893	44.00	37.40	0.05	13.19	57.24	50.64	64.54	54.54	7.30	3.90	N	
3	0.21424	40.20	35.40	0.05	13.19	53.44	48.64	63.04	53.04	9.60	4.40	N	
4	0.28424	35.00	28.80	0.05	13.21	48.26	42.06	60.69	50.69	12.43	8.63	N	
5	0.32123	34.60	29.10	0.05	13.21	47.86	42.36	59.67	49.67	11.81	7.31	N	
6	0.56857	37.10	30.50	0.05	13.24	50.39	43.79	56.00	46.00	5.61	2.21	N	
7	9.66273	32.00	25.80	0.19	13.66	45.85	39.65	60.00	50.00	14.15	10.35	N	
8	13.56000	33.70	33.70	0.31	13.76	47.77	47.77	60.00	50.00	12.23	2.23	N	
9	0.15000	46.80	36.00	0.04	13.18	60.02	49.22	66.00	56.00	5.98	6.78	L	
10	0.17845	44.00	37.70	0.04	13.19	57.23	50.93	64.56	54.56	7.33	3.63	L	
11	0.21314	40.50	35.50	0.04	13.19	53.73	48.73	63.08	53.08	9.35	4.35	L	
12	0.28833	34.20	28.40	0.04	13.21	47.45	41.65	60.57	50.57	13.12	8.92	L	
13	0.31910	34.10	28.00	0.04	13.21	47.35	41.25	59.73	49.73	12.38	8.48	L	
14	0.57087	37.30	30.50	0.04	13.24	50.58	43.78	56.00	46.00	5.42	2.22	L	
15	2.41467	29.50	24.00	0.07	13.37	42.94	37.44	56.00	46.00	13.06	8.56	L	
16	9.61693	31.30	25.10	0.20	13.66	45.16	38.96	60.00	50.00	14.84	11.04	L	
17	13.56000	34.40	34.30	0.32	13.76	48.48	48.38	60.00	50.00	11.52	1.62	L	

CHART: WITH FACTOR Peak hold data. CALCULATION : RESULT = READING + LISN + LOSS (CABLE + ATT)
Except for the above table: adequate margin data below the limits.

Conducted Emission

Mode	2			
Date	Test site	Temperature	Humidity	Engineer
March 5, 2026	SAC4	23 deg. C	36 % RH	Shousei Hamaguchi

Limit : FCC_Part 15 Subpart C(15.207) / RSS-Gen 8.8



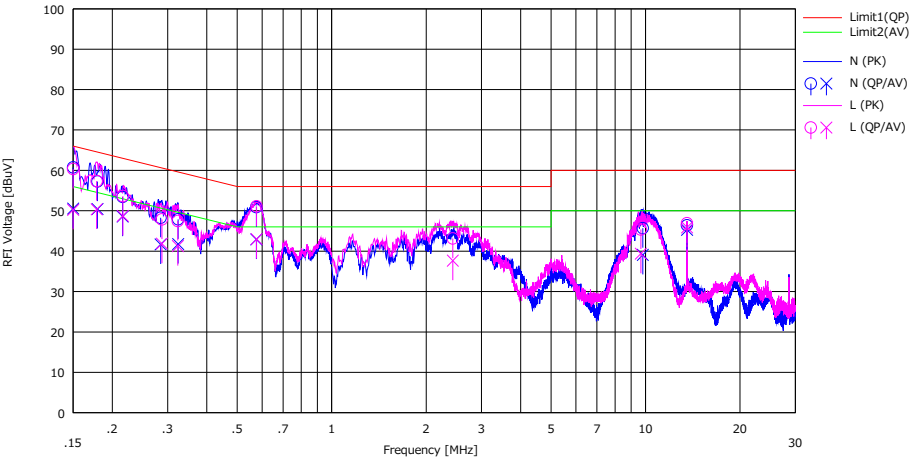
No.	Freq. [MHz]	Reading		LISN	LOSS	Results		Limit		Margin		Phase	Comment
		(QP) [dBuV]	(AV) [dBuV]			(QP) [dBuV]	(AV) [dBuV]	(QP) [dBuV]	(AV) [dBuV]	(QP) [dB]	(AV) [dB]		
1	0.15000	45.30	32.20	0.05	13.18	58.53	45.43	66.00	56.00	7.47	10.57	N	
2	0.17660	44.40	37.40	0.05	13.19	57.64	50.64	64.64	54.64	7.00	4.00	N	
3	0.21175	40.50	36.10	0.05	13.19	53.74	49.34	63.14	53.14	9.40	3.80	N	
4	0.28242	35.00	30.00	0.05	13.21	48.26	43.26	60.74	50.74	12.48	7.48	N	
5	0.31842	34.70	29.80	0.05	13.21	47.96	43.06	59.75	49.75	11.79	6.69	N	
6	0.56738	36.10	29.90	0.05	13.24	49.39	43.19	56.00	46.00	6.61	2.81	N	
7	13.56000	32.20	32.00	0.31	13.76	46.27	46.07	60.00	50.00	13.73	3.93	N	
8	0.15000	44.80	30.30	0.04	13.18	58.02	43.52	66.00	56.00	7.98	12.48	L	
9	0.17582	44.60	37.60	0.04	13.19	57.83	50.83	64.68	54.68	6.85	3.85	L	
10	0.21133	40.70	36.70	0.04	13.19	53.93	49.93	63.15	53.15	9.22	3.22	L	
11	0.28263	34.60	29.90	0.04	13.21	47.85	43.15	60.74	50.74	12.89	7.59	L	
12	0.31710	34.20	29.50	0.04	13.21	47.45	42.75	59.78	49.78	12.33	7.03	L	
13	0.56644	36.00	30.10	0.04	13.24	49.28	43.38	56.00	46.00	6.72	2.62	L	
14	2.39220	29.20	23.70	0.07	13.37	42.64	37.14	56.00	46.00	13.36	8.86	L	
15	13.56000	33.00	32.70	0.32	13.76	47.08	46.78	60.00	50.00	12.92	3.22	L	

CHART: WITH FACTOR Peak hold data. CALCULATION : RESULT = READING + LISN + LOSS (CABLE + ATT)
Except for the above table: adequate margin data below the limits.

Conducted Emission

Mode	3			
Date	Test site	Temperature	Humidity	Engineer
March 5, 2026	SAC4	23 deg. C	36 % RH	Shousei Hamaguchi

Limit : FCC_Part 15 Subpart C(15.207) / RSS-Gen 8.8



No.	Freq. [MHz]	Reading		LISN	LOSS	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]			<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15000	47.50	37.30	0.05	13.18	60.73	50.53	66.00	56.00	5.27	5.47	N	
2	0.17929	44.00	37.20	0.05	13.19	57.24	50.44	64.52	54.52	7.28	4.08	N	
3	0.21568	40.20	35.30	0.05	13.19	53.44	48.54	62.98	52.98	9.54	4.44	N	
4	0.28505	35.00	28.40	0.05	13.21	48.26	41.66	60.67	50.67	12.41	9.01	N	
5	0.32416	34.60	28.50	0.05	13.21	47.86	41.76	59.60	49.60	11.74	7.84	N	
6	0.57556	37.60	29.60	0.05	13.24	50.89	42.89	56.00	46.00	5.11	3.11	N	
7	9.80566	31.80	25.20	0.20	13.66	45.66	39.06	60.00	50.00	14.34	10.94	N	
8	13.56000	32.30	31.20	0.31	13.76	46.37	45.27	60.00	50.00	13.63	4.73	N	
9	0.15000	47.10	37.00	0.04	13.18	60.32	50.22	66.00	56.00	5.68	5.78	L	
10	0.17837	44.10	37.10	0.04	13.19	57.33	50.33	64.56	54.56	7.23	4.23	L	
11	0.21602	40.40	35.50	0.04	13.19	53.63	48.73	62.97	52.97	9.34	4.24	L	
12	0.28782	34.60	28.60	0.04	13.21	47.85	41.85	60.59	50.59	12.74	8.74	L	
13	0.32355	34.20	28.00	0.04	13.21	47.45	41.25	59.62	49.62	12.17	8.37	L	
14	0.57616	37.80	29.70	0.04	13.24	51.08	42.98	56.00	46.00	4.92	3.02	L	
15	2.43172	29.70	24.20	0.07	13.37	43.14	37.64	56.00	46.00	12.86	8.36	L	
16	9.66752	31.50	25.50	0.20	13.66	45.36	39.36	60.00	50.00	14.64	10.64	L	
17	13.56000	32.80	31.80	0.32	13.76	46.88	45.88	60.00	50.00	13.12	4.12	L	

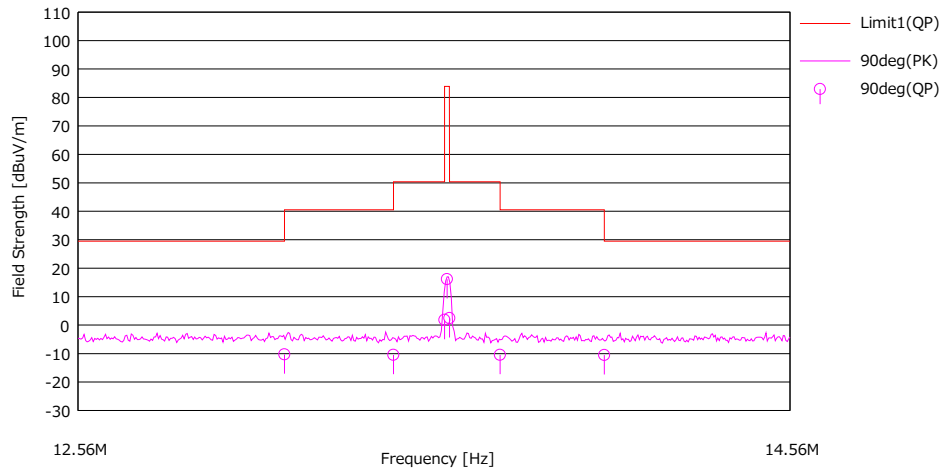
CHART: WITH FACTOR Peak hold data. CALCULATION : RESULT = READING + LISN + LOSS (CABLE + ATT)
Except for the above table: adequate margin data below the limits.

Fundamental Emission and Spectrum Mask

Mode	1
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Date	Test site	Temperature	Humidity	Engineer
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa

Limit : FCC15.225(a), 9-90kHz:PK, 110-490kHz:PK, other:QP



No.	Freq.	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
1	13.11000	35.20	19.94	-33.32	32.13	-10.31	29.50	39.81	90deg	99	
2	13.41000	35.00	19.95	-33.31	32.13	-10.49	40.50	50.99	90deg	99	
3	13.55300	47.30	19.96	-33.31	32.13	1.82	50.40	48.58	90deg	99	
4	13.56000	61.60	19.96	-33.31	32.13	16.12	83.90	67.78	90deg	99	
5	13.56700	47.90	19.96	-33.31	32.13	2.42	50.40	47.98	90deg	99	
6	13.71000	35.00	19.96	-33.30	32.13	-10.47	40.50	50.97	90deg	99	
7	14.01000	34.90	19.97	-33.29	32.13	-10.55	29.50	40.05	90deg	99	

RESULT = READING + ANT FACTOR + LOSS (CABLE + Attenuator + Distance Factor*) - GAIN(AMP))

*) Distance Factor: 40 x log (3 m / 30 m) = -40 dB

Result of the fundamental Emission at 3 m without Distance factor

Ant Deg [deg]	Frequency	Detector	Reading	Ant Factor	Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
90	13.56000	QP	61.60	19.96	6.69	32.13	-	56.12	-	-	Fundamental

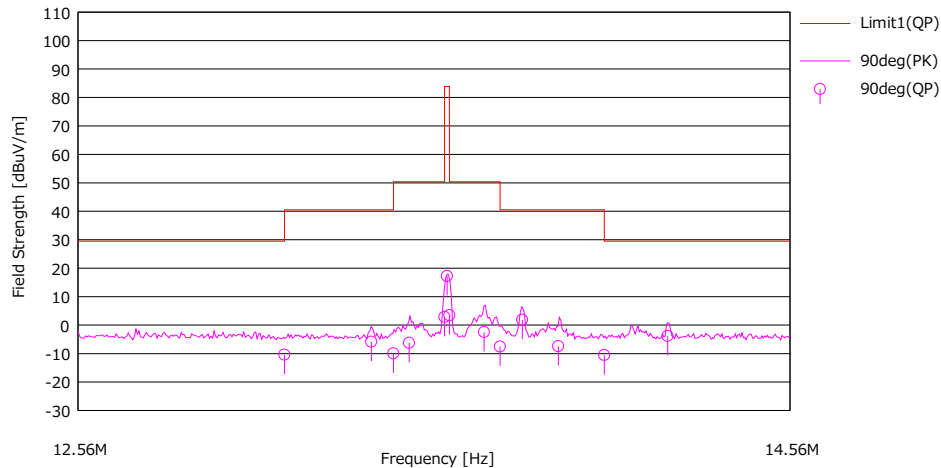
Result = Reading + Ant Factor + Loss (Cable+Attenuator) - Gain(Amplifier)

Fundamental Emission and Spectrum Mask

Mode	2
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Date	Test site	Temperature	Humidity	Engineer
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa

Limit : FCC15.225(a), 9-90kHz:PK, 110-490kHz:PK, other:QP



No.	Freq.	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
1	13.11000	35.10	19.94	-33.32	32.13	-10.41	29.50	39.91	90deg	82	
2	13.34860	39.60	19.95	-33.31	32.13	-5.89	40.50	46.39	90deg	82	
3	13.41000	35.50	19.95	-33.31	32.13	-9.99	40.50	50.49	90deg	82	
4	13.45380	39.20	19.95	-33.31	32.13	-6.29	50.40	56.69	90deg	82	
5	13.55300	48.30	19.96	-33.31	32.13	2.82	50.40	47.58	90deg	82	
6	13.56000	62.70	19.96	-33.31	32.13	17.22	83.90	66.68	90deg	82	
7	13.56700	48.90	19.96	-33.31	32.13	3.42	50.40	46.98	90deg	82	
8	13.66500	43.00	19.96	-33.30	32.13	-2.47	50.40	52.87	90deg	82	
9	13.71000	37.90	19.96	-33.30	32.13	-7.57	40.50	48.07	90deg	82	
10	13.77340	47.30	19.96	-33.29	32.13	1.84	40.50	38.66	90deg	82	
11	13.87680	38.00	19.97	-33.29	32.13	-7.45	40.50	47.95	90deg	82	
12	14.01000	34.90	19.97	-33.29	32.13	-10.55	29.50	40.05	90deg	82	
13	14.19520	41.60	19.98	-33.28	32.13	-3.83	29.50	33.33	90deg	82	

RESULT = READING + ANT FACTOR + LOSS (CABLE + Attenuator + Distance Factor*) - GAIN(AMP))

*) Distance Factor: 40 x log (3 m / 30 m) = -40 dB

Result of the fundamental Emission at 3 m without Distance factor

QP

Ant Deg [deg]	Frequency	Detector	Reading	Ant Factor	Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
90	13.56000	QP	62.70	19.96	6.69	32.13	-	57.22	-	-	Fundamental

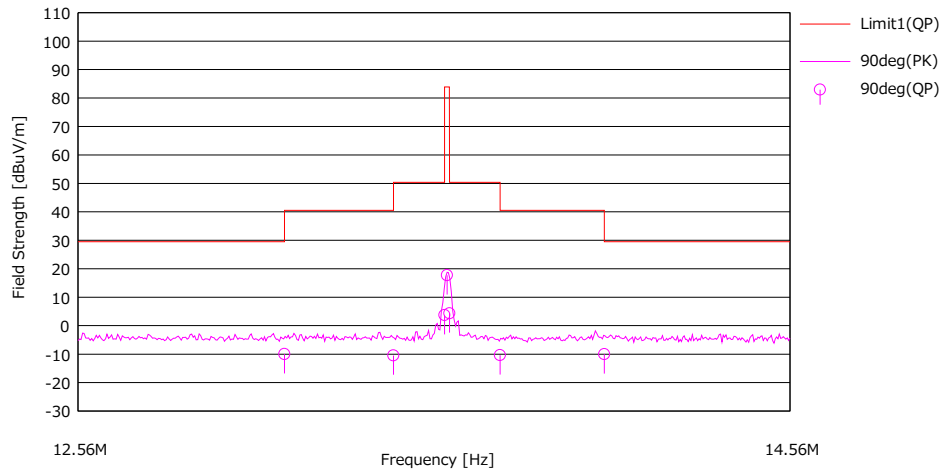
Result = Reading + Ant Factor + Loss (Cable+Attenuator) - Gain(Amplifier)

Fundamental Emission and Spectrum Mask

Mode	3
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Date	Test site	Temperature	Humidity	Engineer
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa

Limit : FCC15.225(a), 9-90kHz:PK, 110-490kHz:PK, other:QP



No.	Freq.	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Antenna	Table	Comment
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]		[deg]	
1	13.11000	35.50	19.94	-33.32	32.13	-10.01	29.50	39.51	90deg	83	
2	13.41000	35.00	19.95	-33.31	32.13	-10.49	40.50	50.99	90deg	83	
3	13.55300	49.20	19.96	-33.31	32.13	3.72	50.40	46.68	90deg	83	
4	13.56000	63.20	19.96	-33.31	32.13	17.72	83.90	66.18	90deg	83	
5	13.56700	49.80	19.96	-33.31	32.13	4.32	50.40	46.08	90deg	83	
6	13.71000	35.10	19.96	-33.30	32.13	-10.37	40.50	50.87	90deg	83	
7	14.01000	35.40	19.97	-33.29	32.13	-10.05	29.50	39.55	90deg	83	

RESULT = READING + ANT FACTOR + LOSS (CABLE + Attenuator + Distance Factor*) - GAIN(AMP))

*) Distance Factor: 40 x log (3 m / 30 m) = -40 dB

Result of the fundamental Emission at 3 m without Distance factor

Ant Deg [deg]	Frequency	Detector	Reading	Ant Factor	Loss	Gain	Duty Factor	Result	Limit	Margin	Remark
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
90	13.56000	QP	63.20	19.96	6.69	32.13	-	57.72	-	-	Fundamental

Result = Reading + Ant Factor + Loss (Cable+Attenuator) - Gain(Amplifier)

Spurious Emission

Mode	1
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa	Below 30 MHz Above 30 MHz

PK or QP

Ant Deg [deg] or Polarity [Hori/Vert]	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
90deg	0.523	QP	53.50	19.86	-33.92	32.14	-	7.30	33.2	25.93	
90deg	27.120	QP	34.10	20.56	-32.97	32.11	-	-10.42	29.5	39.92	
Hori.	40.680	QP	39.40	14.70	7.17	32.10	-	29.17	40.0	10.83	
Hori.	461.040	QP	47.20	16.71	10.30	32.22	-	41.99	46.0	4.03	
Hori.	488.160	QP	47.00	17.35	10.42	32.25	-	42.52	46.0	3.50	
Hori.	533.300	QP	38.10	17.49	10.64	32.27	-	33.96	46.0	12.06	
Hori.	650.880	QP	37.60	18.95	11.15	32.33	-	35.37	46.0	10.65	
Hori.	651.810	QP	36.00	18.96	11.16	32.33	-	33.79	46.0	12.23	
Hori.	948.090	QP	35.10	21.79	12.42	30.86	-	38.45	46.0	7.57	
Vert.	40.680	QP	47.80	14.70	7.17	32.10	-	37.57	40.0	2.43	
Vert.	461.040	QP	44.10	16.71	10.30	32.22	-	38.89	46.0	7.13	
Vert.	488.160	QP	44.30	17.35	10.42	32.25	-	39.82	46.0	6.20	
Vert.	533.300	QP	43.80	17.49	10.64	32.27	-	39.66	46.0	6.36	
Vert.	650.880	QP	33.00	18.95	11.15	32.33	-	30.8	46.0	15.3	
Vert.	651.810	QP	37.90	18.96	11.16	32.33	-	35.7	46.0	10.3	
Vert.	948.090	QP	35.80	21.79	12.42	30.86	-	39.2	46.0	6.9	

Result = Reading + Ant Factor + Loss (Cable + Attenuator + D.Factor) - Gain(Amplifier)

Spurious Emission

Mode	2
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa	Below 30 MHz Above 30 MHz

PK or QP

Ant Deg [deg] or Polarity [Hori/Vert]	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
90deg	0.523	QP	53.50	19.86	-33.92	32.14	-	7.30	33.2	25.93	
90deg	27.120	QP	33.20	20.56	-32.97	32.11	-	-11.32	29.5	40.82	
Hori.	40.680	QP	37.60	14.70	7.17	32.10	-	27.37	40.0	12.63	
Hori.	461.040	QP	48.70	16.71	10.30	32.22	-	43.49	46.0	2.53	
Hori.	488.160	QP	46.40	17.35	10.42	32.25	-	41.92	46.0	4.10	
Hori.	533.300	QP	38.40	17.49	10.64	32.27	-	34.26	46.0	11.76	
Hori.	650.880	QP	38.00	18.95	11.15	32.33	-	35.77	46.0	10.25	
Hori.	651.810	QP	36.70	18.96	11.16	32.33	-	34.49	46.0	11.53	
Hori.	948.090	QP	35.40	21.79	12.42	30.86	-	38.75	46.0	7.27	
Vert.	40.680	QP	44.20	14.70	7.17	32.10	-	33.97	40.0	6.03	
Vert.	461.040	QP	44.90	16.71	10.30	32.22	-	39.69	46.0	6.33	
Vert.	488.160	QP	43.70	17.35	10.42	32.25	-	39.22	46.0	6.80	
Vert.	533.300	QP	44.30	17.49	10.64	32.27	-	40.16	46.0	5.86	
Vert.	650.880	QP	33.10	18.95	11.15	32.33	-	30.9	46.0	15.2	
Vert.	651.810	QP	38.50	18.96	11.16	32.33	-	36.3	46.0	9.7	
Vert.	948.090	QP	35.70	21.79	12.42	30.86	-	39.1	46.0	7.0	

Result = Reading + Ant Factor + Loss (Cable + Attenuator + D.Factor) - Gain(Amplifier)

Spurious Emission

Mode	3
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Date	Test site	Temperature	Humidity	Engineer	Measurement Range
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa	Below 30 MHz Above 30 MHz

PK or QP

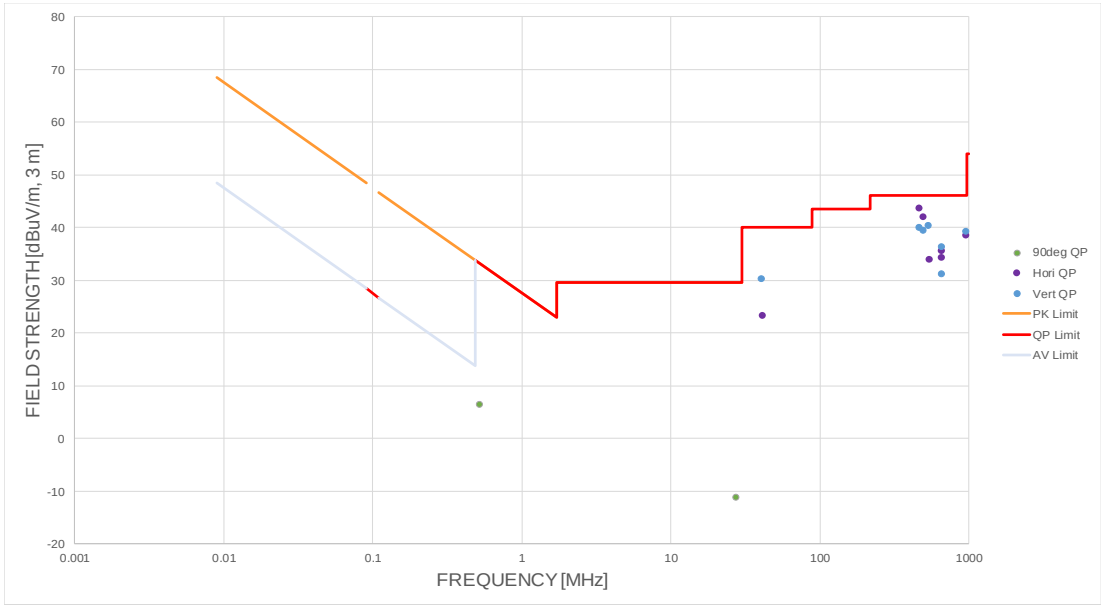
Ant Deg [deg] or Polarity [Hori/Vert]	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
90deg	0.523	QP	52.60	19.86	-33.92	32.14	-	6.40	33.2	26.83	
90deg	27.120	QP	33.30	20.56	-32.97	32.11	-	-11.22	29.5	40.72	
Hori.	40.680	QP	33.60	14.70	7.17	32.10	-	23.37	40.0	16.63	
Hori.	461.040	QP	49.00	16.71	10.30	32.22	-	43.79	46.0	2.23	
Hori.	488.160	QP	46.60	17.35	10.42	32.25	-	42.12	46.0	3.90	
Hori.	533.300	QP	38.30	17.49	10.64	32.27	-	34.16	46.0	11.86	
Hori.	650.880	QP	37.90	18.95	11.15	32.33	-	35.67	46.0	10.35	
Hori.	651.810	QP	36.70	18.96	11.16	32.33	-	34.49	46.0	11.53	
Hori.	948.090	QP	35.40	21.79	12.42	30.86	-	38.75	46.0	7.27	
Vert.	40.680	QP	40.60	14.70	7.17	32.10	-	30.37	40.0	9.63	
Vert.	461.040	QP	45.20	16.71	10.30	32.22	-	39.99	46.0	6.03	
Vert.	488.160	QP	44.00	17.35	10.42	32.25	-	39.52	46.0	6.50	
Vert.	533.300	QP	44.60	17.49	10.64	32.27	-	40.46	46.0	5.56	
Vert.	650.880	QP	33.40	18.95	11.15	32.33	-	31.2	46.0	14.9	
Vert.	651.810	QP	38.60	18.96	11.16	32.33	-	36.4	46.0	9.6	
Vert.	948.090	QP	35.90	21.79	12.42	30.86	-	39.3	46.0	6.8	

Result = Reading + Ant Factor + Loss (Cable + Attenuator + D.Factor) - Gain(Amplifier)

Radiated Spurious Emission

(Plot data, Worst case for Spurious Emission)

Mode	3			
Date	Test site	Temperature	Humidity	Engineer
March 9, 2026	SAC4	20 deg. C	40 % RH	Nachi Konegawa

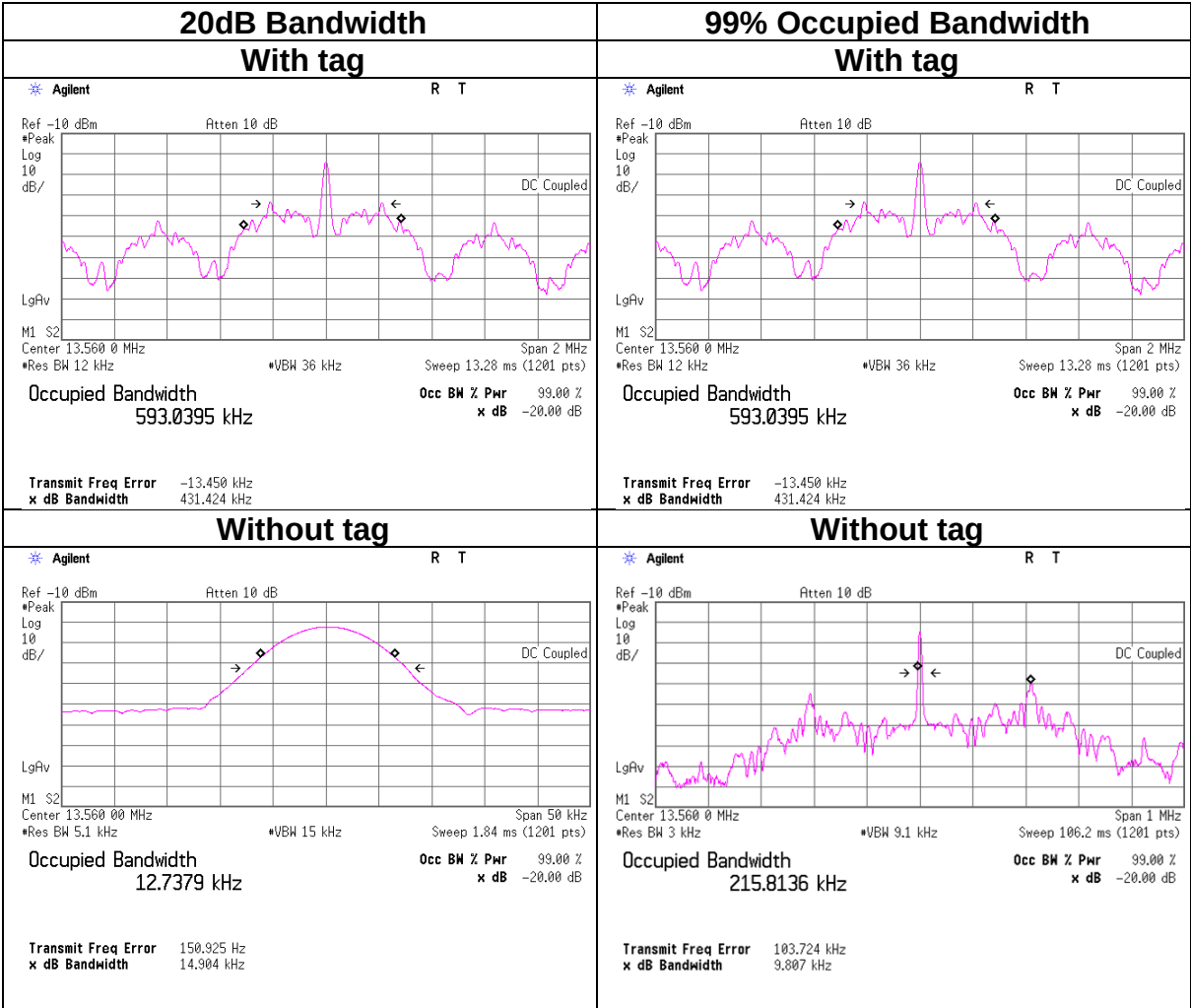


*These plots data contains sufficient number to show the trend of characteristic features for EUT.

20 dB Bandwidth and 99% Occupied Bandwidth

Mode	1			
Date	Test site	Temperature	Humidity	Engineer
March 17, 2026	MR11	23 deg. C	55 % RH	Kiyoshiro Okazaki

FREQ [MHz]	Mode	20dB Bandwidth [kHz]	99% Occupied Bandwidth [kHz]
13.56	With Tag	431.424	593.0395
	Without Tag	14.904	215.8136

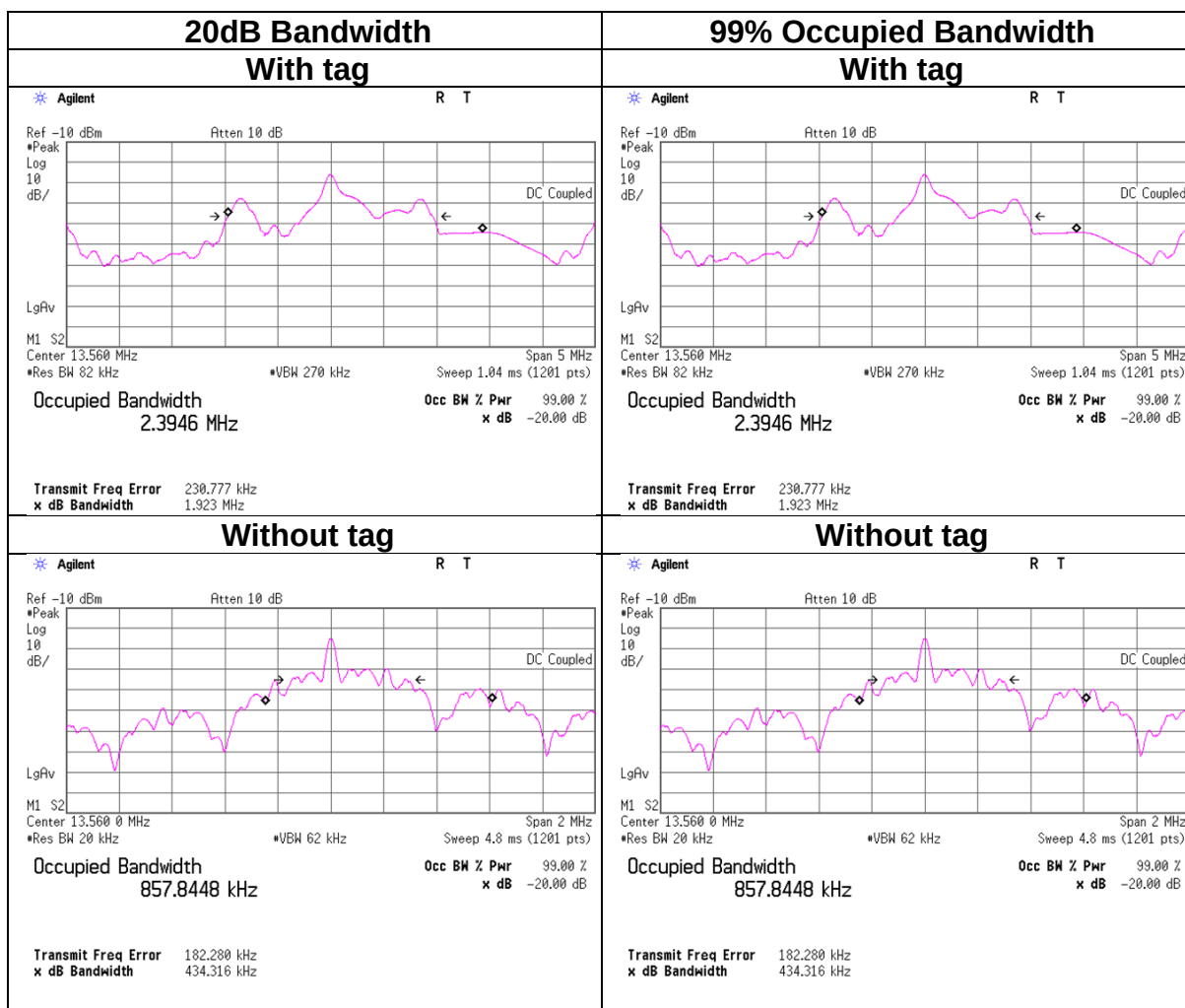


20 dB Bandwidth and 99% Occupied Bandwidth

Mode	2
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Date	Test site	Temperature	Humidity	Engineer
March 17, 2026	MR11	23 deg. C	55 % RH	Kiyoshiro Okazaki

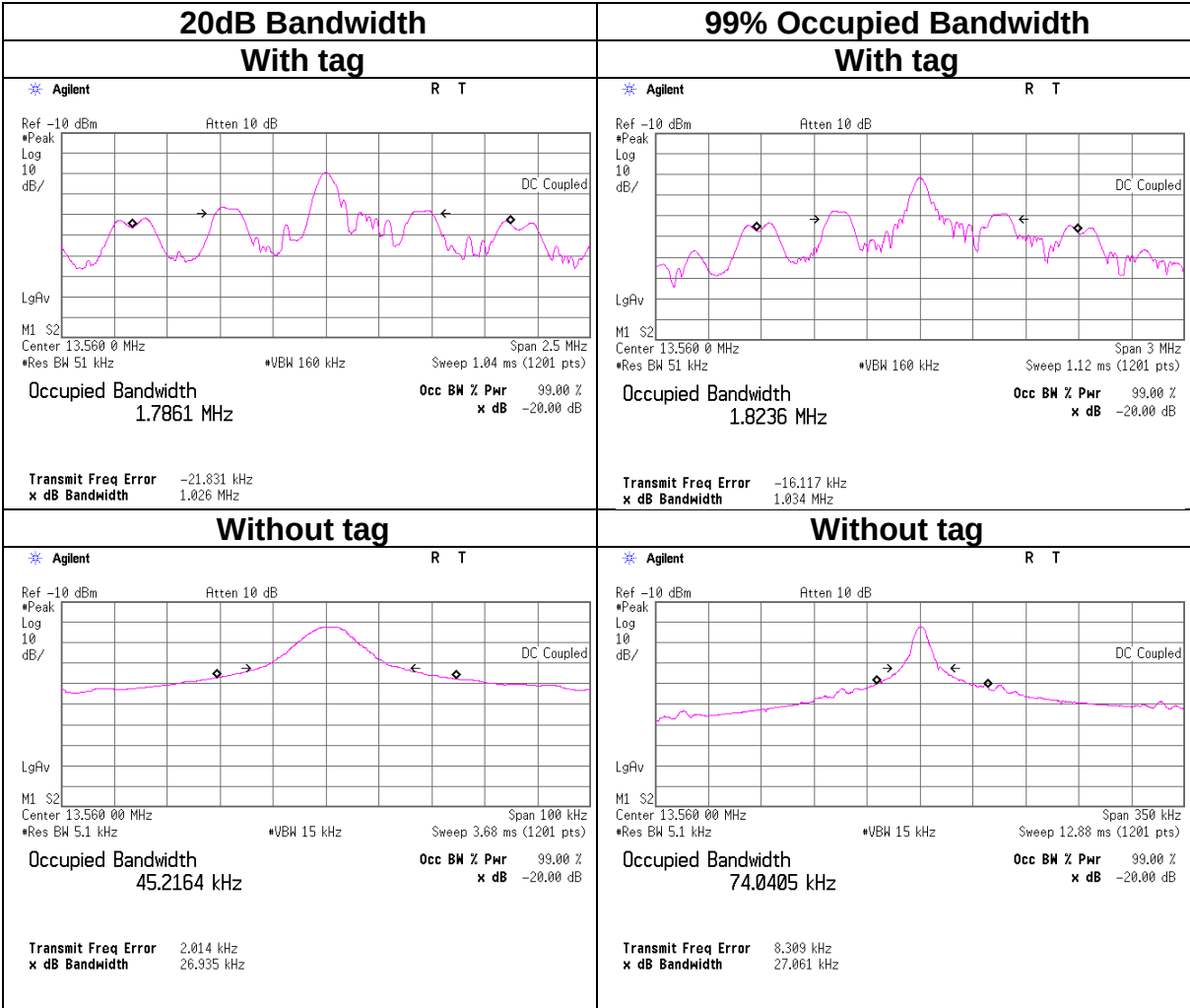
FREQ [MHz]	Mode	20dB Bandwidth [kHz]	99% Occupied Bandwidth [kHz]
13.56	With Tag	1923.000	2394.6000
	Without Tag	434.316	857.8448



20 dB Bandwidth and 99% Occupied Bandwidth

Mode	3			
Date	Test site	Temperature	Humidity	Engineer
March 17, 2026	MR11	23 deg. C	55 % RH	Kiyoshiro Okazaki

FREQ [MHz]	Mode	20dB Bandwidth [kHz]	99% Occupied Bandwidth [kHz]
13.56	With Tag	1026.000	1823.6000
	Without Tag	26.935	74.0405



Frequency Tolerance

Mode	4			
Date	Test site	Temperature	Humidity	Engineer
March 17, 2026	MR11	23 deg. C	55 % RH	Kiyoshiro Okazaki

Test condition Temp. [deg. C]	Voltage [V]	Tested timing	Measured frequency [MHz]	Frequency error [MHz]	Result		Limit [+/- %]
					[%]	[ppm]	
50	120	Power on	13.560012	0.000012	0.00009	0.9	0.01
		+ 2 min.	13.560106	0.000106	0.00078	7.8	0.01
		+ 5 min.	13.560058	0.000058	0.00043	4.3	0.01
		+ 10 min.	13.560107	0.000107	0.00079	7.9	0.01
40	120	Power on	13.560121	0.000121	0.00089	8.9	0.01
		+ 2 min.	13.560131	0.000131	0.00097	9.7	0.01
		+ 5 min.	13.560045	0.000045	0.00033	3.3	0.01
		+ 10 min.	13.560110	0.000110	0.00081	8.1	0.01
30	120	Power on	13.560116	0.000116	0.00086	8.6	0.01
		+ 2 min.	13.560134	0.000134	0.00099	9.9	0.01
		+ 5 min.	13.560110	0.000110	0.00081	8.1	0.01
		+ 10 min.	13.560114	0.000114	0.00084	8.4	0.01
20	120	Power on	13.560025	0.000025	0.00018	1.8	0.01
		+ 2 min.	13.560118	0.000118	0.00087	8.7	0.01
		+ 5 min.	13.560098	0.000098	0.00072	7.2	0.01
		+ 10 min.	13.560058	0.000058	0.00043	4.3	0.01
20	85 (Lower Voltage)	Power on	13.560053	0.000053	0.00039	3.9	0.01
		+ 2 min.	13.560092	0.000092	0.00068	6.8	0.01
		+ 5 min.	13.560099	0.000099	0.00073	7.3	0.01
		+ 10 min.	13.560124	0.000124	0.00091	9.1	0.01
20	264 (Upper Voltage)	Power on	13.560007	0.000007	0.00005	0.5	0.01
		+ 2 min.	13.560075	0.000075	0.00055	5.5	0.01
		+ 5 min.	13.560103	0.000103	0.00076	7.6	0.01
		+ 10 min.	13.560125	0.000125	0.00092	9.2	0.01
10	120	Power on	13.560141	0.000141	0.00104	10.4	0.01
		+ 2 min.	13.560080	0.000080	0.00059	5.9	0.01
		+ 5 min.	13.560200	0.000200	0.00147	14.7	0.01
		+ 10 min.	13.560143	0.000143	0.00105	10.5	0.01
0	120	Power on	13.560185	0.000185	0.00136	13.6	0.01
		+ 2 min.	13.560225	0.000225	0.00166	16.6	0.01
		+ 5 min.	13.560114	0.000114	0.00084	8.4	0.01
		+ 10 min.	13.560137	0.000137	0.00101	10.1	0.01
-10	120	Power on	13.560139	0.000139	0.00103	10.3	0.01
		+ 2 min.	13.560128	0.000128	0.00094	9.4	0.01
		+ 5 min.	13.560226	0.000226	0.00167	16.7	0.01
		+ 10 min.	13.560189	0.000189	0.00139	13.9	0.01
-20	120	Power on	13.560153	0.000153	0.00113	11.3	0.01
		+ 2 min.	13.560225	0.000225	0.00166	16.6	0.01
		+ 5 min.	13.560195	0.000195	0.00144	14.4	0.01
		+ 10 min.	13.560134	0.000134	0.00099	9.9	0.01

Calculation formula: Frequency error = Measured frequency - Tested frequency
Result [%] = Frequency error / Tested frequency * 100

Tested frequency: 13.56 MHz
Limit (+/-): 0.01 % (+/- 100ppm)

*The test was begun from 50 deg. C and the temperature was lowered each 10 deg. C.

APPENDIX 2: Test instruments

Test Equipment (1/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
CE	141217	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W/SFM141/421-010/sucoform141-PE/RFM-E121(SW)	-/04178	2025/06/24	12
CE	141248	Attenuator	JFW Industries, Inc.	50FP-013H2 N	-	2025/12/03	12
CE	141358	LISN(AMN)	Schwarzbeck Mess-Elektronik OHG	NSLK8127	8127-730	2025/07/03	12
CE	141950	EMI Test Receiver	Rohde & Schwarz	ESU26	100412	2026/01/05	12
CE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
CE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
CE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	2026/01/14	12
CE	272098	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4255	250902199	2025/11/27	12
RE	141217	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W/SFM141/421-010/sucoform141-PE/RFM-E121(SW)	-/04178	06/24/2025	12
RE	141267	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-192	09/12/2025	12
RE	141344	Barometer	Sanoh Co., Ltd	SBR121	635	02/27/2024	36
RE	141397	Coaxial Cable	UL-ISE EMC	-	-	11/12/2025	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/14/2025	12
RE	141559	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4221	130618775	08/08/2025	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/02/2025	12
RE	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/06/2025	12
RE	141949	Test Receiver	Rohde & Schwarz	ESCI	100767	06/30/2025	12
RE	142011	AC4_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	07/10/2025	24
RE	142230	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	166638	Coaxial cable	UL-ISE	MP4/6-5D-2W	MP4/6	12/17/2025	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	202512	Loop Antenna	UL-ISE	-	-	-	-
RE	207745	Coaxial Cable	UL-ISE	-	-	03/19/2025	12
RE	220646	Attenuator	Huber+Suhner	6806 N-50-1	-	03/06/2026	12
RE	244706	Thermo-Hygrometer	A & D	AD-5648A	1003	01/14/2026	12
RE	244710	Thermo-Hygrometer	HIOKI E. E. CORPORATION	LR5001	231202104	01/14/2026	12
RE	252514	Active Loop Antenna	Schwarzbeck Mess-Elektronik OHG	FMZB 1519-60 D	1519-60 D-067	10/14/2025	12
RE	272098	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4255	250902199	11/27/2025	12

Test Equipment (2/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
FT	141344	Barometer	Sanoh Co., Ltd	SBR121	635	02/27/2024	36
FT	141430	Temperature and Humidity Chamber	Espec	PL-1KT	14007630	01/20/2026	12
FT	141559	DIGITAL MULTIMETER	HIOKI E. E. CORPORATION	DT4221	130618775	08/08/2025	12
FT	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	10/06/2025	12
FT	202512	Loop Antenna	UL-ISE	-	-	-	-
FT	244706	Thermo-Hygrometer	A & D	AD-5648A	1003	01/14/2026	12

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

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

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

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

Test item:

CE: Conducted Emission

RE: Radiated Emission

FT: Frequency Tolerance