Report on the RF Testing of:

KYOCERA Corporation

Mobile Phone, Model: EB1134

FCC ID: JOYEB1134

In accordance with FCC Part 22 Subpart H

Prepared for: KYOCERA Corporation

Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku

Yokohama-shi, Kanagawa, Japan

Phone: +81-45-943-6253 Fax: +81-45-943-6314



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Document Number: JPD-TR-22090-0

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NAME	JOB IIILE	RESPONSIBLE FOR	ISSUE DATE
Hiroaki Suzuki	Deputy Manager of RF Group	Approved Signatory	2022、05、24

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Japan Ltd. document control rules.

EXECUTIVE SUMMARY - Result: Complied

A sample(s) of this product was tested and the result above was confirmed in accordance with FCC Part 22 Subpart H.



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1 Summary of Test

1.1 Modification history of the test report

Document Number	Modification History	Issue Date
JPD-TR-22090-0	First Issue	Refer to the cover page

1.2 Standards

CFR47 FCC Part 22 Subpart H

1.3 Test methods

KDB 971168 D01 Power Meas License Digital Systems v03r01 ANSI/TIA/EIA 603-E-2016 ANSI C63.26-2015

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

Test item section	Test item	Condition	Result	Remark
2.1046	Conducted Output Power	Conducted	PASS	*1
22.913(a)	Effective Radiated Power	Radiated	PASS	-
22.917(a) 2.1049	Occupied Bandwidth	Conducted	PASS	-
22.917(a) 2.1051	Band Edge Spurious and Harmonic at Antenna Terminal	Conducted	PASS	-
22.917(a) 2.1053	Radiated emissions and Harmonic Emissions	Radiated	PASS	-
22.355 2.1055	Frequency Stability	Conducted	PASS	-

^{*1:} Refer to RF Exposure Report (Test Report_SAR)

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

7-April-2022 - 6-May-2022



2 Equipment Under Test

All information in this chapter was provided by the applicant.

2.1 EUT information

Applicant KYOCERA Corporation

Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi,

Kanagawa, Japan

Phone: +81-45-943-6253 Fax: +81-45-943-6314

Equipment Under Test (EUT) Mobile Phone

Model number EB1134

Serial number 358079740016730, 355161850001265, 358079740017217

Trade name Kyocera

Number of sample(s) 3

EUT condition Pre-Production

Power rating Battery: DC 3.8 V

Size (W) 112.9 mm \times (D) 51.3 mm \times (H) 18.0 mm

Environment Indoor and Outdoor use

Terminal limitation -20°C to 60°C

Hardware version DMT1

Software version 0.021AL.0013.a Firmware version Not applicable

RF Specification

Frequency of Operation Up Link

WCDMA Band V: 826.4-846.6 MHz

Down Link

WCDMA Band V: 871.4-891.6 MHz

Modulation type WCDMA Band V: QPSK, 16QAM

Emission designator WCDMA Band V: 4M18F9W

Effective Radiated Power

(E.R.P.)

WCDMA Band V: 0.4365 W (26.4 dBm)

Antenna type Internal antenna

Antenna gain WCDMA Band V: 0.81 dBi



2.2 Modification to the EUT

The table below details modifications made to the EUT during the test project.

Modification State	Description of Modification	Modification fitted by	Date of Modification		
Model: EB1134, Serial Number: 358079740016730, 355161850001265, 358079740017217					
0	As supplied by the applicant	Not Applicable	Not Applicable		

2.3 Variation of family model(s)

2.3.1 List of family model(s)

EB1134 has model with camera and without camera.

2.3.2 Reason for selection of EUT

Not applicable

2.4 Description of test mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Band	Channel	Frequency [MHz]
	4132	826.4
WCDMA Band V	4183	836.6
	4233	846.6

The field strength of spurious emissions was measured at each position of all three axis X, Y and Z to compare the level, and the maximum noise.

The worst emission was found in X-axis, Open, Without camera and the worst case recorded. Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.



Japan

3 Configuration of Equipment

Numbers assigned to equipment on the diagram in "3.2 System configuration" correspond to the list in "3.1 Equipment used".

This test configuration is based on the manufacture's instruction.

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

3.1 Equipment used

No.	Equipment	Company	Model No.	Serial No.	FCC ID/DoC	Comment
1	Mobile Phone	KYOCERA	EB1134	358079740016730, 355161850001265, 358079740017217	JOYEB1134	EUT

3.2 System configuration

1. Mobile Phone (EUT)	



4 Test Result

4.1 Effective Radiated Power

4.1.1 Measurement procedure

[FCC 22.913(a)]

<Step 1>

The EUT and support equipment are placed on 1.0 meter x 1.0 meter surface, 0.8 meter height (Below or equal 1GHz) styrene foam table. Radiated emission measurements are performed at 3 meter distance with the broadband antenna (Log periodic antenna). The antenna is positioned both the horizontal and vertical planes of polarization and height is varied 1 to 4 meters and stopped at height producing the maximum emission.

The bandwidth of the spectrum analyzer is set to 1MHz. The turntable is rotated by 360 degrees and stopped at azimuth of producing the maximum emission.

<Step 2>

The substitution antenna is replaced by the transmitter antenna (EUT).

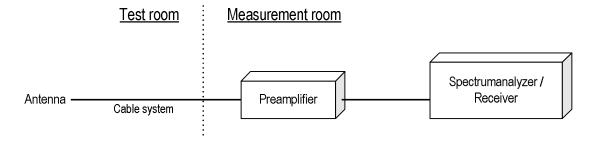
The frequency of the signal generator is adjusted to the measurement frequency.

Level of the signal generator is adjusted to the level that is obtained from step 1, and record the emission level of signal generator.

The spectrum analyzer is set to;

- a) Span = 1.5 times the OBW
- b) RBW = 1-5% of the expected OBW, not to exceed 1 MHz
- c) $VBW \ge 3 \times RBW$
- d) Number of sweep points ≥ 2 x span / RBW
- e) Sweep time = auto-couple
- f) Detector = RMS (power averaging)
- g) If the EUT can be configured to transmit continuously (i.e., burst duty cycle ≥ 98%), then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98 %), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

- Test configuration





4.1.2 Calculation method

Result (ERP) = Ant. Input - Cable loss + Antenna Gain Margin = Limit – Result (ERP)

Example:

Limit @ 836.6 MHz : 38.45 dBm

Ant. Input = 40.0 dBm Cable loss = 0.8 dB Ant. Gain = -6.7 dBd

Result = 40.0 - 0.8 + (-6.7) = 32.5 dBmMargin = 38.45 - 32.5 = 5.95 dB

4.1.3 Limit

7 W (38.45 dBm)

4.1.4 Test data

Date : 7~8-April-2022

Temperature : 22.6 [°C]

Humidity : 37.3 [%] Test engineer :

Test place : 3m Semi-anechoic chamber Tadahiro Seino

Date : 28~29-April-2022

Temperature : 21.5 [°C]

Humidity : 27.1 [%]

Test place : 3m Semi-anechoic chamber Chiaki Kanno

[WCDMA Band V - X-axis, Open, Without camera]

	H/V	Frequency [MHz]	S.A Reading [dBm]	Ant. Input [dBm]	Cable loss [dB]	Ant.Gain [dBd]	Result [dBm]	Limit [dBm]	Margin [dB]
Ī	Н	826.4	-30.3	33.9	0.8	-6.7	26.4	38.45	12.0
	Н	836.6	-31.0	32.6	0.8	-6.7	25.0	38.45	13.4
ſ	Н	846.6	-32.0	31.3	0.8	-6.8	23.8	38.45	14.7

Test engineer



4.2 Occupied Bandwidth

4.2.1 Measurement procedure

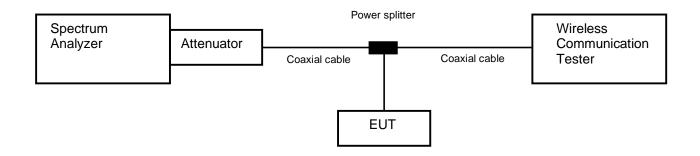
[FCC 22.917(a), 2.1049]

The Occupied bandwidth was measured with a spectrum analyzer connected to the antenna terminal. The spectrum analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth.

The spectrum analyzer is set to;

- a) RBW = 1-5% of the expected OBW & VBW ≥ 3 x RBW
- b) Detector = Peak
- c) Trace mode = Max hold
- d) Sweep time = auto-couple

- Test configuration



4.2.2 Limit

None

4.2.3 Measurement result

Date : 28-April-2022 Temperature : 22.9 [°C] Humidity : 36.1 [%]

Test place : Shielded room No.4

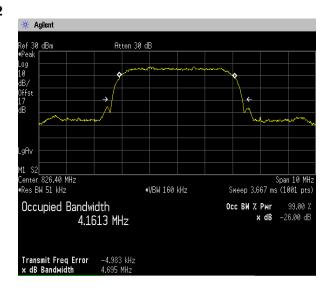
Test engineer : Tadahiro Seino

Band	Channel	Frequency (MHz)	Test Result (kHz)	
	4132	826.4	4161.3	
WCDMA Band V	4183	836.6	4153.7	
	4233	846.6	4178.1	

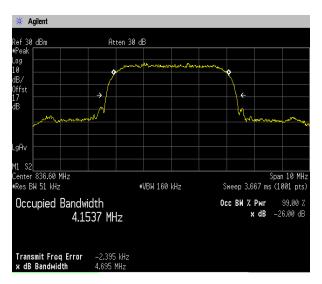


4.2.4 Trace data

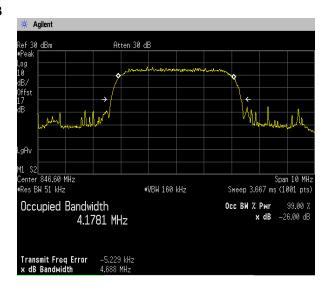
[WCDMA Band V] Channel: 4132



Channel: 4183



Channel: 4233





4.3 Band Edge Spurious and Harmonic at Antenna Terminals

4.3.1 Measurement procedure

[FCC 22.917(a), 2.1051]

The band edge spurious and harmonic was measured with a spectrum analyzer connected to the antenna terminal.

The spectrum analyzer is set to;

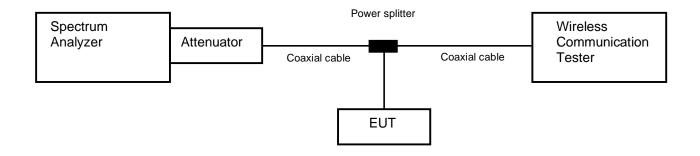
<Band Edge>

- a) Span was set large enough so as to capture all out of band emissions near the band edge
- b) RBW ≥ 1% of the emission bandwidth or 2% of the emission bandwidth
- c) VBW \geq 3 x RBW
- d) Detector = RMS
- e) Trace mode = Max hold
- f) Sweep time = auto-couple
- g) Number of sweep point ≥ 2 x span / RBW

<Spurious Emissions>

- a) RBW = $1MHz \& VBW \ge 3 \times RBW$
- b) Detector = Peak
- c) Trace mode = Max hold
- d) Sweep time = auto-couple
- e) Number of sweep point ≥ 2 x span / RBW

- Test configuration



4.3.2 Limit

-13 dBm or less



4.3.3 **Measurement result**

Date : 28-April-2022
Temperature : 22.9 [°C]
Humidity : 36.1 [%]
Test place : Shielded room No.4

Test engineer Tadahiro Seino

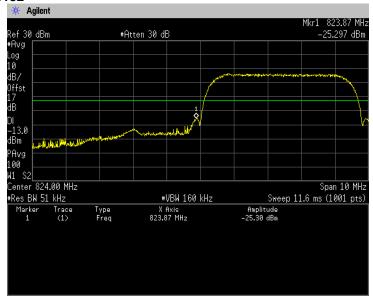
Band	Channel	Frequency [MHz]	Limit [dBm]	Results	
MCDMA	4132	826.4	-13.0	See the trace data	PASS PASS PASS
WCDMA Pand V	4183	836.6	-13.0	See the trace data	PASS
Band V	4233	846.6	-13.0	See the trace data	PASS

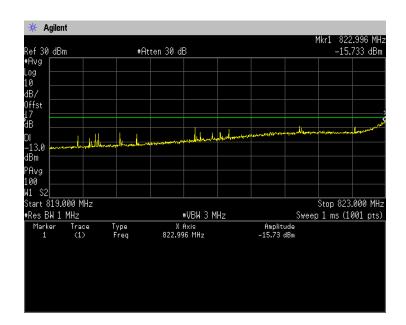


4.3.4 Trace data

[WCDMA Band V] (Band Edge)

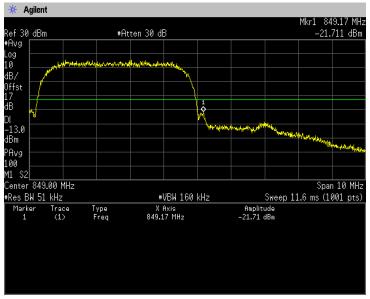
Channel: 4132

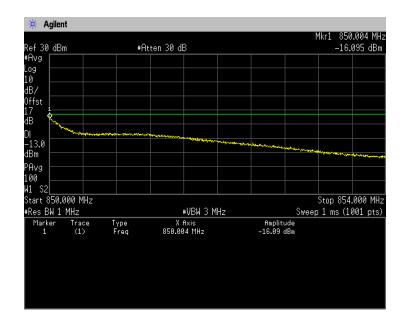






Channel: 4233



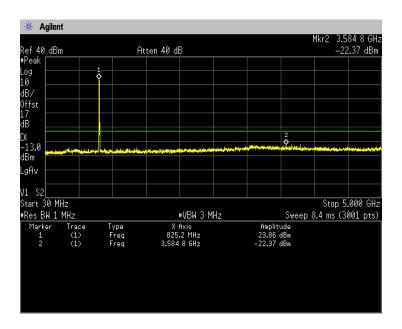




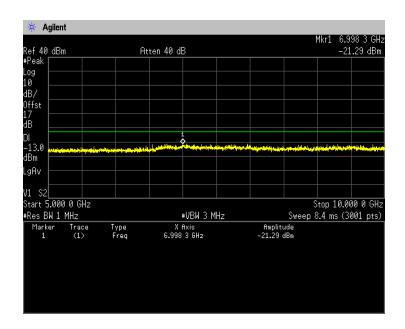
(Spurious Emissions)

Note: Conducted spurious test was measured in the worst case of conducted output power.

Channel: 4132 30MHz-5GHz

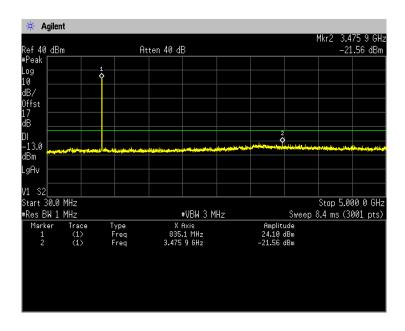


5GHz-10GHz

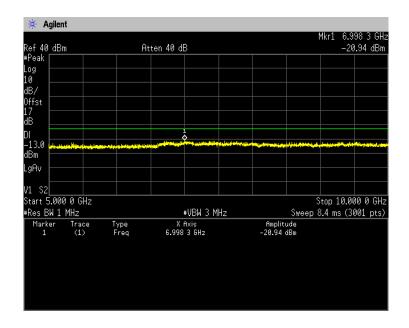




Channel: 4183 30MHz-5GHz

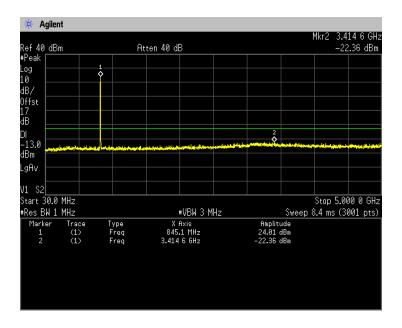


5GHz-10GHz

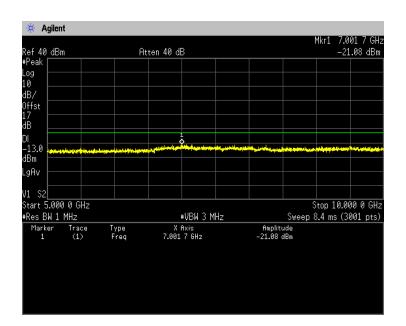




Channel: 4233 30MHz-5GHz



5GHz-10GHz





4.4 Radiated Emissions and Harmonic Emissions

4.4.1 Measurement procedure

[FCC 22.917(a), 2.1053]

<Step 1>

The EUT and support equipment are placed on 1.0 meter x 1.0 meter surface, 0.8 meter height (Below or equal 1GHz) or 0.6 meter x 0.6 meter surface, 1.5 meter height (Above 1GHz) styrene foam table. Radiated emission measurements are performed at 3 meter distance with the broadband antenna (Biconical antenna, Log periodic antenna and double ridged guide antenna). The antenna is positioned both the horizontal and vertical planes of polarization and height is varied 1 to 4 meters and stopped at height producing the maximum emission.

The bandwidth of the spectrum analyzer is set to 1MHz. The turntable is rotated by 360 degrees and stopped at azimuth of producing the maximum emission. The frequency is investigated up to 20GHz.

<Step 2>

The substitution antenna is replaced by the transmitter antenna (EUT).

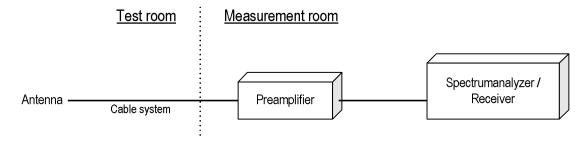
The frequency of the signal generator is adjusted to the measurement frequency.

Level of the signal generator is adjusted to the level that is obtained from step 1, and record the emission level of signal generator.

The spectrum analyzer is set to;

- a) RBW = 100kHz for below 1GHz and 1MHz for above 1GHz / VBW ≥ 3 x RBW
- b) Detector = Peak
- c) Trace mode = Max hold
- d) Sweep time = auto-couple

- Test configuration





4.4.2 Calculation method

Result (EIRP) = Ant. Input - Cable loss + Antenna Gain Margin = Limit - Result (EIRP)

Example:

Limit @ 1673.2 MHz: -13.0 dBmAnt. Input = -56.4 dBm Cable loss = 1.0 dB Ant. Gain = 6.9 dBiResult = -56.4 - 1.0 + 6.9 = -50.5 dBmMargin = -13.0 - (-50.5) = 37.5 dB

4.4.3 Limit

-13 dBm or less



4.4.4 Test data

Date : 18-April-2022

Temperature : 20.0 [°C]

Humidity : 22.6 [%] Test engineer :

Test place : 3m Semi-anechoic chamber Kazunori Saito

Date : 28~29-April-2022

Temperature : 21.5 [°C]

Humidity : 27.1 [%] Test engineer

Date : 10~11-May-2022

Temperature : 23.6 [°C]

Humidity : 20.9 [%] Test engineer

Test place : 3m Semi-anechoic chamber Tadahiro Seino

[WCDMA Band V - X-axis, Open, Without camera]

(Channel: 4132)

H/V	Frequency [MHz]	S.A Reading [dBm]	Ant. Input [dBm]	Cable loss [dB]	Ant.Gain [dBi]	Result [dBm]	Limit [dBm]	Margin [dB]
Н	1652.8	-55.7	-57.7	1.1	6.1	-52.7	-13.0	39.7

(Channel: 4183)

H/V	Frequency [MHz]	S.A Reading [dBm]	Ant. Input [dBm]	Cable loss [dB]	Ant.Gain [dBi]	Result [dBm]	Limit [dBm]	Margin [dB]
Н	1673.2	-56.0	-58.0	1.1	5.8	-53.3	-13.0	40.3

(Channel: 4233)

H/V	Frequency [MHz]	S.A Reading [dBm]	Ant. Input [dBm]	Cable loss [dB]	Ant.Gain [dBi]	Result [dBm]	Limit [dBm]	Margin [dB]
Н	1693.2	-55.9	-57.9	1.1	5.5	-53.5	-13.0	40.5



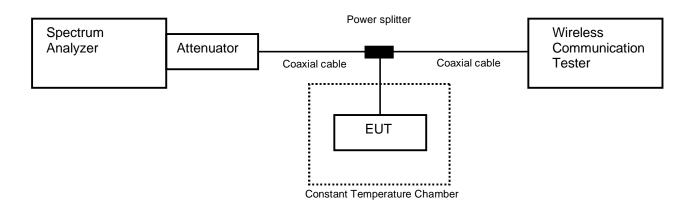
4.5 Frequency Stability

4.5.1 Measurement procedure

[FCC 22.355, 2.1055]

The EUT was placed of an inside of an constant temperature chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10°C intervals and the unit was allowed to stabilize at each measurement. The frequency drift was measured with the normal Temperature and voltage tolerance and it is presented as the ppm unit.

- Test configuration



4.5.2 Limit

±2.5 ppm



4.5.3 **Measurement result**

6-May-2022 Date Temperature 24.0 [°C]

Humidity 35.8 [%]

Test engineer Test place : Shielded room No.4 Tadahiro Seino

[WCDMA Band V] (Channel: 4183)

Limit: ±0.00025% = ±2.5 ppm								
Power Supply [V]	Temperature [°C]	Measurements Frequency [Hz]	Frequency Tolerance [ppm]	Limit [ppm]	Result			
	25(Ref.)	836,599,981	0.00000	±2.5	Pass			
	50	836,599,989	0.00938	±2.5	Pass			
	40	836,599,982	0.00069	±2.5	Pass			
	30	836,599,991	0.01152	±2.5	Pass			
3.80	20	836,599,981	-0.00051	±2.5	Pass			
3.00	10	836,599,991	0.01192	±2.5	Pass			
	0	836,599,987	0.00665	±2.5	Pass			
	-10	836,599,995	0.01678	±2.5	Pass			
	-20	836,599,988	0.00792	±2.5	Pass			
	-30	836,599,988	0.00853	±2.5	Pass			
3.42	25	836,599,993	0.01393	±2.5	Pass			
4.18	25	836,599,982	0.00153	±2.5	Pass			

Calculation:

Frequency Tolerance (ppm) = Measurements Frequency (Hz) - Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000



5 Measurement Uncertainty

Expanded uncertainties stated are calculated with a coverage Factor k=2. Please note that these results are not taken into account when measurement uncertainty considerations contained in ETSI TR 100 028 Parts 1 and 2 determining compliance or noncompliance with test result.

Test item	Measurement uncertainty
Conducted emission, AMN (9 kHz – 150 kHz)	±3.7 dB
Conducted emission, AMN (150 kHz – 30 MHz)	±3.3 dB
Radiated emission (9kHz – 30 MHz)	±3.2 dB
Radiated emission (30 MHz – 1000 MHz)	±5.5 dB
Radiated emission (1 GHz – 6 GHz)	±4.8 dB
Radiated emission (6 GHz – 18 GHz)	±4.4 dB
Radiated emission (18 GHz – 40 GHz)	±6.4 dB
Radio Frequency	±1.3 * 10 ⁻⁸
RF power, conducted	±0.7 dB
Adjacent channel power	±1.5 dB
Temperature	±0.6 °C
Humidity	±1.2 %
Voltage (DC)	±0.4 %
Voltage (AC, <10kHz)	±0.2 %

Judge	Measured value and standard limit value						
PASS	Case1 Standard limit value +Uncerta Me Case2	· 					
FAIL	Case4	Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration. Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.					



6 Laboratory Information

Testing was performed and the report was issued at:

TÜV SÜD Japan Ltd. Yonezawa Testing Center

Address: 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan

Phone: +81-238-28-2881

Accreditation and Registration

A2LA

Certificate #3686.03

VLAC

Accreditation No.: VLAC-013

BSMI

Laboratory Code: SL2-IN-E-6018, SL2-A1-E-6018

Innovation, Science and Economic Development Canada

ISED#: 4224A

VCCI Council

Registration number: A-0166



Appendix A. Test Equipment

Antenna port conducted test

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Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date	
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	30-Sep-2022	01-Sep-2021	
Attenuator	HUBER+SUHNER	6810.19.A	N/A(S450)	31-Dec-2022	21-Dec-2021	
Microwave cable	Junkosha Inc.	MWX221/1m	N/A(S400)	31-Mar-2023	02-Mar-2022	
Power divider	Keysight	11636B	MY51360915	30-Sep-2022	15-Sep-2021	
Wideband Radio Frequency Tester	ROHDE&SCHWARZ	CMW500	116338	31-Aug-2022	04-Aug-2021	
Temperature and humidity chamber	ESPEC	PL1KP	14007261	30-Sep-2022	21-Sep-2021	

Radiated emission

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Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2022	15-Sep-2021
Spectrum analyzer	Agilent Technologies	E4440A	US40420937	31-Dec-2022	13-Dec-2021
Preamplifier	SONOMA	310	372170	30-Sep-2022	15-Sep-2021
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1333	31-Dec-2022	15-Dec-2021
Log periodic antenna	Schwarzbeck	VUSLP9111B	346	31-Oct-2022	15-Oct-2021
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S541)	30-Sep-2022	16-Sep-2021
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	31-Jul-2022	20-Jul-2021
Preamplifier	TSJ	MLA-100M18-B02-40	1929118	31-Dec-2022	22-Dec-2021
Attenuator	AEROFLEX	26A-10	081217-08	31-Dec-2022	22-Dec-2021
Double ridged guide antenna	ETS LINDGREN	3117	00052315	31-May-2022	24-May-2021
Attenuator	HUBER+SUHNER	6803.17.B	N/A(2340)	31-Dec-2022	23-Dec-2021
Double ridged guide antenna	A.H.Systems Inc.	SAS-574	469	31-Aug-2022	02-Aug-2021
Preamplifier	TSJ	MLA-1840-B03-35	1240332	31-Aug-2022	02-Aug-2021
Notch Filter	Micro-Tronics	BRM50706	003	31-Jul-2022	19-Jul-2021
Signal generator	ROHDE&SCHWARZ	SMB100A	177525	31-Dec-2022	08-Dec-2021
RF power amplifier	R&K	CGA020M602-2633R	B40240	30-Jun-2022	02-Jun-2021
Attenuator	HUBER+SUHNER	6820.19.A	N/A(2399)	30-Sep-2022	15-Sep-2021
Microwave cable	HUBER+SUHNER	SUCOFELX102/2m	31648	31-Mar-2023	02-Mar-2022
Dipole antenna	Schwarzbeck	VHAP	1021	31-Jul-2022	28-Jul-2021
Dipole antenna	Schwarzbeck	UHAP	993	31-Jul-2022	28-Jul-2021
Double ridged guide antenna	ETS LINDGREN	3117	00218815	31-Dec-2022	06-Dec-2021
Wideband Radio Frequency Tester	ROHDE&SCHWARZ	CMW500	126079	30-Nov-2022	15-Nov-2021
Wideband Radio Frequency Tester	ROHDE&SCHWARZ	CMW500	116338	31-Aug-2022	04-Aug-2021
		SUCOFLEX104/9m	MY30037/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/1m	my24610/4	31-Dec-2022	22-Dec-2021
Management	LILIDED CHUNED	SUCOFLEX104/8m	SN MY30033/4	31-Dec-2022	22-Dec-2021
Microwave cable	HUBER+SUHNER	SUCOFLEX104/1m	MY32976/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/2m	SN MY28404/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/7m	41625/6	31-Dec-2022	22-Dec-2021
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V6.0.140	N/A	N/A
Absorber	RIKEN	PFP30	N/A	N/A	N/A
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-NSA)	31-May-2022	20-May-2021
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-SVSWR)	31-May-2022	20-May-2021

^{*:} The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.