

EMI TEST REPORT

Test Report No. 15377688H-C

Customer	Kowa Company. Ltd.
Description of EUT	Hand-held Slit-Lamp
Model Number of EUT	KOWA SL-19
FCC ID	2BH7QA322330
Test Regulation	FCC Part 15 Subpart B, Class B
Test Result	Complied
Issue Date	September 9, 2024
Remarks	-

Remarks	-		
Representative test er	ngineer	Approved	d by
Lone		Takayun	ki.L
Nachi Konegawa Engineer	a	Takayuki Sh Leade	
		ilac-MRA	ACCREDITED CERTIFICATE 5107.02
The testing in which "Non-accred	ditation" is displayed is	s outside the accreditation scopes	s in UL Japan, Inc.
There is no testing item of "Non-	accreditation".		

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 23.0

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REVISION HISTORY

Original Test Report No. 15377688H-C

Revision	Test Report No.	Date	Page Revised Contents
-	15377688H-C	September 9, 2024	-
(Original)			

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Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation	Hori.	Horizontal
AAN	Asymmetric Artificial Network	ICES	Interference-Causing Equipment Standard
AC	Alternating Current	I/O	Input/Output
AE	Auxiliary equipment	IEC	International Electrotechnical Commission
AM	Amplitude Modulation	IEEE	Institute of Electrical and Electronics Engineers
AMN	Artificial Mains Network	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	ISN	Impedance Stabilization Network
AP	Access Point	ISO	International Organization for Standardization
ASK	Amplitude Shift Keying	JAB	Japan Accreditation Board
Atten., ATT	Attenuator	LAN	Local Area Network
AV	Average	LCL	Longitudinal Conversion Loss
BPSK	Binary Phase-Shift Keying	LIMS	Laboratory Information Management System
BR	Bluetooth Basic Rate	LISN	Line Impedance Stabilization Network
BT	Bluetooth	MRA	Mutual Recognition Arrangement
BT LE	Bluetooth Low Energy	N/A	Not Applicable
BW	BandWidth	NIST	National Institute of Standards and Technology
C.F	Correction Factor	NS	No signal detect.
Cal Int	Calibration Interval	NSA	Normalized Site Attenuation
CAV	CISPR AV	OBW	Occupied BandWidth
CCK	Complementary Code Keying	OFDM	Orthogonal Frequency Division Multiplexing
CDN	Coupling Decoupling Network	PER	Packet Error Rate
Ch., CH	Channel	PK	Peak
CISPR	Comite International Special des Perturbations Radioelectriques	P _{LT}	long-term flicker severity
Corr.	Correction	POHC(A)	Partial Odd Harmonic Current
CPE	Customer premise equipment	Pol., Pola.	Polarization
CW	Continuous Wave	PR-ASK	Phase Reversal ASK
DBPSK	Differential BPSK	P _{ST}	short-term flicker severity
DC	Direct Current	QAM	Quadrature Amplitude Modulation
DET	Detector	QP	Quasi-Peak
D-factor, D.fac.	Distance factor	QPSK	Quadrature Phase Shift Keying
Dmax	maximum absolute voltage change during an observation period	r.m.s., RMS	Root Mean Square
DQPSK	Differential QPSK	RBW	Resolution BandWidth
DSSS	Direct Sequence Spread Spectrum	RE	Radio Equipment
DUT	Device Under Test	REV	Reverse
EDR	Enhanced Data Rate	RF	Radio Frequency
e.i.r.p., EIRP	Equivalent Isotropically Radiated Power	RFID	Radio Frequency Identifier
EM clamp	Electromagnetic clamp	RNSS	Radio Navigation Satellite Service
EMC	ElectroMagnetic Compatibility	RSS	Radio Standards Specifications
EMI	ElectroMagnetic Interference	Rx	Receiving
EMS	ElectroMagnetic Susceptibility	S.fac.	Site factor
EN	European Norm	SINAD	Ratio of (Signal + Noise + Distortion) to (Noise + Distortion)
e.r.p., ERP	Effective Radiated Power	S/N	Signal to Noise ratio
ETSI	European Union Standards Institute	SA, S/A	Spectrum Analyzer
EU	European Union	SABS	South African Bureau of Standards
EUT	Equipment Under Test	SANS	South African National Standards
Fac.	Factor	SG	Signal Generator
FCC	Federal Communications Commission	SVSWR	Site-Voltage Standing Wave Ratio
FHSS	Frequency Hopping Spread Spectrum	THC(A)	Total Harmonic Current
FM	Frequency Modulation	THD(%)	Total Harmonic Distortion
Freq.	Frequency	TR, T/R	Test Receiver
FSK	Frequency Shift Keying	Tx	Transmitting
Fund	Fundamental	UFA	Uniform field area
FWD	Forward	VBW	Video BandWidth
GFSK	Gaussian Frequency-Shift Keying	Vert.	Vertical
GNSS	Global Navigation Satellite System	WLAN	Wireless LAN
GPS	Global Positioning System	xDSL	Generic term for all types of DSL technology (DSL: Digital Subscriber Line)

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SECTION 1: Customer information

Company Name	Kowa Company. Ltd.
Address	3-1, Chofugaoka 3-chome, Chofu, Tokyo, 182-0021 Japan
Telephone Number	+81-042-440-7630
Contact Person	Yoshiharu Kawai

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, 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	Hand-held Slit-Lamp
Model Number	KOWA SL-19
Serial Number	Refer to SECTION 4.2
Condition	Production model
Modification	No Modification by the test lab
Receipt Date	July 4, 2024
Test Date	August 21, 2024

2.2 Product Description

General Specification

Rating	DC 3.6 V, 2 A
Clock frequency (ies) in the	816 MHz
system	

Radio Specification

WLAN (IEEE802.11b/11g/11n-20)

	·)
Equipment Type	Transceiver
Frequency of Operation	20 MHz Band 2412 MHz to 2462 MHz
Type of Modulation	DSSS, OFDM
Antenna Gain	3 dBi

WLAN (IEEE802.11a/11n-20)

Equipment Type	Transceiver	
Frequency of Operation	20 MHz Band 5180 MHz to 5240 MHz	
Type of Modulation	OFDM	
Antenna Gain	4 dBi	

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification	FCC Part 15 Subpart B
, , , , , , , , , , , , , , , , , , ,	The latest version on the first day of the testing period
Title	FCC 47CFR Part15 Radio Frequency Device
	Subpart B Unintentional Radiators

3.2 Procedures and results

Item	Test Procedure	Limits	Worst margin	Result	Remarks
Conducted emission	ANSI C63.4: 2014 +	Class B	-	N/A	*1)
	C63.4a: 2017				
	7. AC power - line				
	conducted emission				
	measurements				
Radiated emission	ANSI C63.4: 2014 +	Class B	4.46 dB	Complied	-
	C63.4a: 2017		850.002 MHz,	-	
	8. Radiated		QP, Horizontal		
	emission measurements				

^{*} Note: UL Japan, Inc.'s EMI Work Procedure: Work Instructions-ULID-003591.

3.3 Addition to standard

No addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

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

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

Radiated emission

Measurement distance	Frequency range	Frequency range						
3 m	9 kHz to 30 MHz		dB	3.3				
10 m			dB	3.1				
3 m	30 MHz to 200 MHz	Horizontal	dB	5.0				
		Vertical	dB	5.0				
	200 MHz to 1000 MHz	Horizontal	dB	5.2				
		Vertical	dB	6.2				
10 m	30 MHz to 200 MHz	Horizontal	dB	5.5				
		Vertical	dB	5.4				
	200 MHz to 1000 MHz	Horizontal	dB	5.5				
		Vertical	dB	5.5				
3 m	1 GHz to 6 GHz	dB	5.1					
	6 GHz to 18 GHz	dB	5.4					
1 m	10 GHz to 18 GHz	dB	5.4					
	18 GHz to 26.5 GHz	dB	5.3					
	26.5 GHz to 40 GHz	26.5 GHz to 40 GHz						
0.5 m	26.5 GHz to 40 GHz		dB	5.0				

^{*1)} The test was not performed on since the EUT is not an AC power operated device.

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3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

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

Telephone: +81-596-24-8999

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

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

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

3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

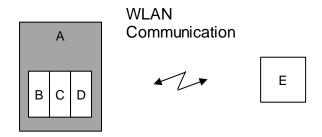
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SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Mode	1. Normal Mode
Software(s)	SL192 3110 FW RfTest 0007

4.2 Configuration and peripherals



Description of EUT and Support Equipment

	socon part in 201 and capport Equipmont											
No.	Item	Model number	Serial Number	Manufacturer	Remarks							
Α	Hand-held Slit-Lamp	KOWA SL-19	32213400252	Kowa Company.	EUT							
				Ltd.								
В	Nickel metal hydride	BK-3MCC	-	Panasonic	-							
	battery			Corporation								
С	Nickel metal hydride	BK-3MCC	-	Panasonic	-							
	battery			Corporation								
D	Nickel metal hydride	BK-3MCC	-	Panasonic	-							
	battery			Corporation								
Ε	iPad	MUQW2J/A	DMPYPC8FLM93	Apple	-							

^{*} Setup was taken into consideration and test data was taken under worse case conditions.

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SECTION 5: Radiated Emission

5.1 Operating environment

Date : See data
Test place : See data
Temperature : See data
Humidity : See data
Test engineer : See data

5.2 Test configuration

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The EUT was set on the edge of the tabletop.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

Photographs of the set up are shown in APPENDIX 3.

5.3 Test conditions

Frequency range : 30 MHz to 200 MHz (Biconical antenna)

200 MHz to 1000 MHz (Logperiodic antenna)

1000 MHz to 26500 MHz (Horn antenna)

Test distance : 3 m

EUT position : Table top

EUT operation mode : See Clause 4.1

5.4 Test procedure

The height of the measuring antenna 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 with the Test Receiver.

The radiated emission measurements were made with the following detector function of the Test Receiver. Test antenna was aimed at the emission source for receiving the maximum signal and always kept. (Above 1 GHz)

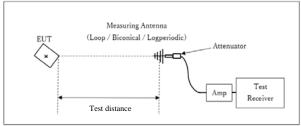
Frequency	Below 1 GHz	Above 1 GHz *1)
Instrument used	Test Receiver	Test Receiver
IF Bandwidth	QP: BW 120 kHz	PK: BW 1 MHz, CAV: BW 1 MHz

^{*1)} The measurement data was adjusted to a 3 m distance using the following Distance Factor. Distance Factor: See Figure 1

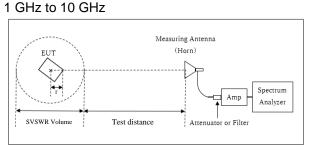
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Figure 1: Test Setup

Below 1 GHz



× : Center of turn table



- r : Radius of an outer periphery of EUT
- ×: Center of turn table

[1 GHz to 6 GHz]

Test Distance: 3 m

Distance Factor: $20 \times \log (3.95 \text{ m}^*/3.0 \text{ m}) = 2.39 \text{ dB}$ *(Test Distance + SVSWR Volume /2) - r = 3.95 m

Test Distance: 3 m SVSWR Volume: 2 m (SVSWR Volume has been calibrated based on CISPR 16-1-4.) r: 0.05 m

[6 GHz to 10 GHz]

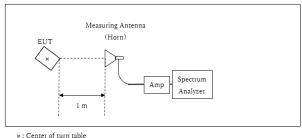
*Test Distance: 1 m

Distance Factor: $20 \times \log (3.85 \text{ m}^*/3.0 \text{ m}) = 4.35 \text{ dB}$ *(Test Distance + SVSWR Volume /2) - r = 4.95 m

Test Distance: 4.3 m SVSWR Volume: 1.4 m (SVSWR Volume has been calibrated based on CISPR 16-1-4.) r: 0.05 m

Distance Factor: $20 \times \log (1.0 \text{ m}^* / 3.0 \text{ m}) = -9.54 \text{ dB}$

10 GHz to 26.5 GHz



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

5.5 **Test result**

Summary of the test results: Pass

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

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APPENDIX 1: Test data

Radiated Emission

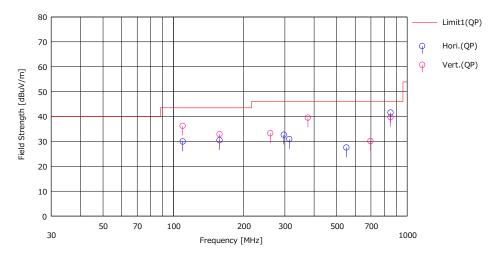
Test place Ise EMC Lab.

Semi Anechoic Chamber No.3

Date August 21, 2024
Temperature / Humidity 22 deg. C / 54 % RH
Engineer Nachi Konegawa
(Below 1 GHz)

Mode Mode 1

Limit: FCC_Part 15 Subpart B(15.109)_Class B



_	Reading	4.15		0.	Result	Limit	Margin					
	(QP)				(QP)	(QP)	(QP)		Height	Angle		Comment
[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	-		[H/V]	[cm]	[deg]	1,100	
109.726	42.30	11.78	7.99	32.14	29.93	43.50	13.57	Hori.	293	272	BA	
157.710	38.80	15.30	8.48	32.09	30.49	43.50	13.01	Hori.	253	83	BA	
297.004	41.50	13.50	9.63	31.99	32.64	46.00	13.36	Hori.	100	81	LA26	
313,479	39.30	13.87	9.74	31.99	30.92	46.00	15.08	Hori.	100	251	LA26	
550,003	30.80	17.62	11.18	32.05	27.55	46.00	18.45	Hori.	155	99	LA26	
850.002	38.80	21.28	12.70	31.24	41.54	46.00	4.46	Hori.	100	272	LA26	
109.726	48.60	11.78	7.99	32.14	36.23	43.50	7.27	Vert.	100	30	BA	
157.710	41.20	15.30	8.48	32.09	32.89	43.50	10.61	Vert.	100	208	BA	
259.882	43.80	12.12	9.34	32.01	33,25	46.00	12.75	Vert.	214	263	LA26	
376,450	46.30	15.07	10.17	32.01	39.53	46.00	6.47	Vert.	128	159	LA26	
697.090	30.50	19.72	11.96	32.08	30.10	46.00	15.90	Vert.	150	146	LA26	
850.002	37.00	21.28	12.70	31.24	39.74	46.00	6.26	Vert.	100	158	LA26	
1												
İ												
	157.710 297.004 313.479 550.003 850.002 109.726 157.710 259.882 376.450 697.090	Freq. (OP) (MHz] (GB)V/1 109.726 42.30 157.710 38.80 297.004 41.50 313.479 39.003 30.80 850.002 38.80 109.726 48.60 157.710 41.20 259.882 43.80 376.450 46.30 697.090 30.50	Freq. (GP) Anth-oc	Freq. (OP)	Freq. GDP Art Fee Loss Gan GB/m GB GB GB GB GB GB GB G	Freq. GPS Anth-De Closs Gan GPP	Freq. (QP) Ant1-bo Loss Gain (QP) (Q	Africal C(B) Africal C(B) C		MR+D GB/M GB/M	MHz GBDV GBB/m GBB GBB GBBV/m GBBV/m GBB Helph Angle Helph Angle GBV/m GBBV/m GBB Helph Angle GBV/m GBBV/m GBBV/m	Art Cop Art Cop Art Cop Cop Cop Cop Cop Cop Pota Pepth Art Art Cop C

CHART: WITH FACTOR

ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + ATT) - GAIN(AMP)

Except for the above table: adequate margin data below the limits.

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Radiated Emission

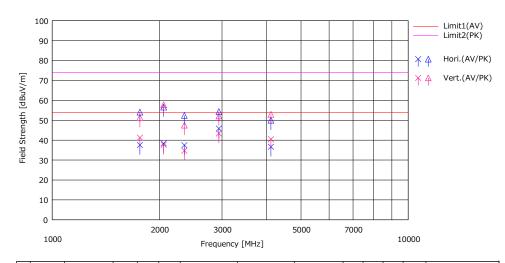
Test place Ise EMC Lab.

Semi Anechoic Chamber No.3

Date August 21, 2024
Temperature / Humidity 22 deg. C / 54 % RH
Engineer Nachi Konegawa
(Above 1 GHz)

Mode 1

Limit: FCC_Part 15 Subpart B(15.109)_Class B



	Frea.	Rec	ding	Ant Fac	Loss	Gain	Res	sult	Li	mit	Mai	rgin	Pola.	Heiaht	Anale		
No.	1164.	(AV)	(PK)	All I do			(AV)	(PK)	(AV)	(PK)	(AV)	(PK)		Tietgill	Nige	Ant. Type	Comment
	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	(dB)	[H/V]	[cm]	[deg]	.,,,,	
1	1763.960	41.10	57.60	25.00	4.40	32.93	37.57	54.07	53.90	73.90	16.33	19.83	Hori	183	87	H20	
2	2057.165	39.40	57.60	26.73	4.58	32.34	38.37	56.57	53.90	73.90	15.53	17.33	Hori	100	144	H20	
3	2351.950	37.30	52.20	27.68	4.74	32.22	37.50	52.40	53.90	73.90	16.40	21.50	Hori	100	205	H20	
4	2940.023	44.20	52.70	28.59	5.04	31.99	45.84	54.34	53.90	73.90	8.06	19.56	Hori	100	0	H20	
	4116.030	32.50	45.80	30.04	5.56	31.43	36.67	49.97	53.90	73.90	17.23	23.93	Hori	100	228	H20	
6	1763.960	44.80	54.90	25.00	4.40	32.93	41.27	51.37	53.90	73.90	12.63	22.53	Vert.	172	359	H20	
7	2057.165	38.70	58.80	26.73	4.58	32.34	37.67	57.77	53.90	73.90	16.23	16.13	Vert.	100	87	H20	
8	2351.950	34.50	47.30	27.68	4.74	32.22	34.70	47.50	53.90	73.90	19.20	26.40	Vert.	100	99	H20	
9	2940.023	41.70	50.50	28.59	5.04	31.99	43.34	52.14	53.90	73.90	10.56	21.76	Vert.	144	94	H20	
10	4116.030	36.30	48.80	30.04	5.56	31.43	40.47	52.97	53.90	73.90	13.43	20.93	Vert.	100	343	H20	

CHART: WITH FACTOR

ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE) - GAIN(AMP) Except for the above table: adequate margin data below the limits.

^{*} No signal was detected above 10 GHz.

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APPENDIX 2: Test instruments

Test equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141323	Coaxial cable	UL Japan	=	=	09/10/2023	12
RE	141424	Biconical Antenna	Schwarzbeck Mess- Elektronik OHG	VHA9103+BBA9106	1915	03/15/2024	12
RE	141507	Horn Antenna 1-18GHz	Schwarzbeck Mess- Elektronik OHG	BBHA9120D	258	11/20/2023	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess- Elektronik OHG	BBHA9170	BBHA9170306	07/19/2024	12
RE	141532	DIGITAL HITESTER	HIOKI E.E. CORPORATION	3805	051201197	01/31/2024	12
RE	141580	Microwave System Amplifier	Keysight Technologies Inc	83017A	MY39500779	03/08/2024	12
RE	141582	Pre Amplifier	SONOMA INSTRUMENT	310	260834	02/17/2024	12
RE	141901	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY48250080	01/26/2024	12
RE	141951	EMI Test Receiver	Rohde & Schwarz	ESR26	101408	05/17/2024	12
RE	142008	AC3_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	12/11/2023	24
RE	142013	AC3_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	04/12/2023	24
RE	142183	Measure	KOMELON	KMC-36	-	10/20/2023	12
RE	142314	Attenuator	Pasternack Enterprises	PE7390-6	D/C 1504	06/06/2024	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	242170	Logperiodic Antenna	Schwarzbeck Mess- Elektronik OHG	VUSLP9111B	00728	11/29/2023	12
RE	244709	Thermo-Hygrometer	HIOKI E.E. CORPORATION	LR5001	231202103	01/25/2024	12
RE	245787	Double Ridge Horn Antenna	Schwarzbeck Mess- Elektronik OHG	BBHA 9120 C	689	03/06/2024	12
RE	246001	Microwave Cable	Huber+Suhner	SF103/11PC35/ 11PC35/1000mm / SF126E/5000mm	800673(1m) / 610204(5m)	03/06/2024	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:

RE: Radiated emission