

RF TEST REPORT

Report No.: 20240117G01519X-W9

Product Name: VERTU IRONFLIP 5G digital mobile phone

- Model No.: VTL-202302
 - FCC ID: 2A6IQ-VTL202302
 - IC: 28629-VTL202302
- Applicant: VERTU INTERNATIONAL CORPORATION LIMITED
- Address: Chase Business Centre 39-41 Chase Side London England N14 5BP
- Dates of Testing: 01/22/2024 04/17/2024
 - **Issued by:** CCIC Southern Testing Co., Ltd.
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Test Report

Product:	VERTU IRONFLIP 5G digital mobile phone			
Brand Name:	VERTU			
Trade Name:	VERTU			
Applicant	VERTU INTERNATIONAL CORPORATION LIMITED			
Applicant Address:	Chase Business Centre 39-41 Chase Side London England N14 5BP			
Manufacturer:	Chengdu VERTU Business And Service Management Co., Ltd			
Manufacturer Address:	Room 2308, 23rd Floor, Building 2, No. 1199,North Tianfu			
Test Standards:	Avenue, High-tech Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone 47 CFR FCC Part 15.225 RSS-Gen Issue 5, Feb 2021 RSS-210 Issue 10, Dec 2019 Annex B, B.6 ANSI C63.10-2013			
Test Result	Pass			
Tested by	Chuiseang Zhang Tost Engineer			
	Chuiwang Zhang, Test Engineer			
Reviewed by	Chris Jon 2024.04.17			
	Chris You, Senior Engineer			
Approved by:	Yang Fan 2024.04.17			
	Yang Fan, Manager			



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Change History			
Issue	Date	Reason for change	
1.0	2024.04.17	First edition	



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	VERTU IRONFLIP 5G digital mobile phone			
Model No.	VTL-2023	VTL-202302		
Hardware Version	P10			
Software Version	13.0.0_6.0	01.01.01		
Operating Rang	13.56MHz			
Number of channel	1			
Modulation Type	ASK			
Antenna Type	Internal Antenna			
Antenna Gain	0dBi			
Derver even 1.	Upper:	Rechargeable Li-ion Polymer Battery DC3.91V/3210mAh		
Power suppry	Bottom: Rechargeable Li-ion Polymer Battery DC3.91V/970mA			



1.1. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC/IC certification standards:

No.	Identity	Document Title	
1	47 CFR Part 15 Subpart C	Radio Frequency Devices	
2	DSS Con Jagua 5, Eab 2021	General Requirements for Compliance of Radio	
2	RSS-Gen Issue 5, Feb 2021	Apparatus	
2	RSS-210 Issue 10 December	nber Licence-Exempt Radio Apparatus:	
5	2019 Annex B, B.6	Category I Equipment	
4	KDB 174176 D01 Line	AC Power-Line Conducted Emissions	
4	Conducted FAQ v01r01	Frequently Asked Questions	
5	ANSI C62 10 2012	American National Standard for Testing Unlicensed	
5	ANSI C03.10-2013	Wireless Devices	

Test detailed items/section required by FCC/IC rules and results are as below:

No.	Section in CFR 47	IC Rules	Description	Result
1	15.203	RSS-GEN, 6.8	Antenna Requirement	PASS
2	15.207	RSS-GEN, 8.8	Conducted Emission	PASS
2	15.225(d)	RSS-GEN , 8.9	Dediated Emission	DACC
3	15.209	RSS-210 Annex B, B.6	Radiated Emission	rass
4	15.225(a) (b) (c)	DSS 210 Annov D D 6	Field Strength of Radiated	DACC
4	15.31(f)	K55-210 Allilex D, D.0	Emissions	PASS
5 15 22 5(a)		RSS-GEN, 6.11	Fraguency Stability	DACC
5	13.223(e)	RSS-210 Annex B, B.6	Frequency Stability	PASS
6	15.215(c)	RSS-GEN, 6.7	20 dB & 99% Bandwidth	PASS

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.



1.2. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025. **CAB number: CN0064**

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.3. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C-35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86kPa-106kPa



2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Operating frequency range	Ant. Type	Ant. Gain
1	VERTU IRONFLIP 5G digital mobile phone	13.56 MHz	Internal	0

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.



2.2. Field Strength of Radiated Emissions

2.2.1. Requirement

As per FCC Part 15.225 and RSS-210 Annex B, B.6.

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) Extrapolation Factor = $20 \log_{10}(30/3)^2 = 40$ dB.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Description

The measured Field Strength of Radiated Emissions was calculated by the reading of the spectrum analyzer and calibration.

2.2.4. Test Setup

The radiated emission tests were performed in the 5-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.



2.2.5. Test Result

	Field Strength of Radiated Emissions							
Т	est site:	5M anec	hoic chambe	r Envir	onment:	Temp: 23℃; Humi:59%;10		9%;101kPa
0	perator:	C	ai Fujie	Test	t Date:	2024.03.13		3
Te	st Mode:	N	IFC Tx	Polar	rization:		Horizonta	l
Level(dB,JV/m)	140 130 120 110 100 90 80 70 60 50 40 30 20 10 0						FCC-NFC-MASK	CPK Limit
	40 -50 13.11M 13 PK Limit • QP Detecto	2M 1329M — Horizontal PK or • AV Detector	13.38M 13	3.47M 13.56M Frequency[Hz]	13.65M 13.7	74M 13.83M	13.92M	14.01M
NO	Freq.	Level	Factor	Limit	Margin[dB	Height	Angle	Polarity
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin[dΒ μV/m]	Height [cm]	Angle [°]	Polarity
NO.	Freq. [MHz] 13.26	Level [dBµV/m] -9.76	Factor [dB] -18.44	Limit [dBµV/m] 80.50	Margin[dB μV/m] 90.26	Height [cm] 100	Angle [°] 360	Polarity Horizont
NO.	Freq. [MHz] 13.26 13.49	Level [dBµV/m] -9.76 -9.56	Factor [dB] -18.44 -18.41	Limit [dBµV/m] 80.50 90.50	Margin[dB μV/m] 90.26 100.06	Height [cm] 100 100	Angle [°] 360 0	Polarity Horizont Horizont
NO.	Freq. [MHz] 13.26 13.49 13.56	Level [dBµV/m] -9.76 -9.56 8.34	Factor [dB] -18.44 -18.41 -18.41	Limit [dBµV/m] 80.50 90.50 124.00	Margin[dB μV/m] 90.26 100.06 115.66	Height [cm] 100 100 100	Angle [°] 360 0 228 214	Polarity Horizont Horizont Horizont
NO. 1 2 3 4 5	Freq. [MHz] 13.26 13.49 13.56 13.64 13.88	Level [dBµV/m] -9.76 -9.56 8.34 -9.30 -9.42	Factor [dB] -18.44 -18.41 -18.41 -18.41 -18.39	Limit [dBµV/m] 80.50 90.50 124.00 90.50 80.50	Margin[dB μV/m] 90.26 100.06 115.66 99.80 89.92	Height [cm] 100 100 100 100 100	Angle [°] 360 0 228 314 292	Polarity Horizont Horizont Horizont Horizont Horizont







2.3. 20 dB & 99% Bandwidth

2.3.1. Requirement

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

According to RSS-GEN 6.8, The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553-13.567MHz).

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



- 1. The EUT which is powered by the AC 120V/60Hz is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss and Atten as the factor is calibrated to correct the reading.
- 2. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 3. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.



4. Use the spectrum analyzer "Channel Bandwidth" function to easurement the 20dB EBW and 99% OBW.

2.3.4. Test Results

Test Frequency(MHz)	99% OBW (kHz)	20dB EBW(kHz)	20dB EBW Limit (kHz)	Results	
13.56	0.418	0.493	11.2	Pass	

Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.



Note: Because the measured signal is CW adjusting the RBW per C63.10-2013 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



2.4. Frequency Stability

2.4.1. Requirement

According to FCC section 15.225(e), the frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%(100$ ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



The EUT is powered by AC 120V/60Hz, which is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

2.4.4. Test Procedures

- 1. Frequency Stability vs. Temperature: The EUT is powered by AC 120V/60Hz, than antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.
- 2. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.
- 3. Frequency Stability vs. Voltage: An external variable AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.



2.4.5. Test Results

Test Mode: Continuous Transmitting

Test En	vironment	Frequency	Frequency	Frequency	Limit	
Power	Temperature	Reading	Error	Error	(%)	Result
(V _{DC})	(^o C)	(MHz)	(%)	(ppm)	(70)	
	-20	13.5600	0.0000073746	7.3746		Pass
	-10	13.5601	0.0000073746	7.3746		Pass
	0	13.5601	0.0000073746	7.3746		Pass
2.01	10	13.5602	0.0000147493	14.7493		Pass
5.91	20	13.5601	0.0000073746	7.3746	±0.01%	Pass
	30	13.5602	0.0000147493	14.7493	(±100ppm)	Pass
	40	13.5601	0.0000073746	7.3746		Pass
	50	13.5601	0.0000073746	7.3746		Pass
4.50	20	13.5601	0.0000073746	7.3746		Pass
3.65	20	13.5601	0.0000073746	7.3746		Pass



2.5. AC Power Line Conducted Emission

2.5.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μ H/50 Ω line impedance stabilization network (LISN).

	Conducted Limit (dBµV)		
Frequency range (WHZ)	Quai-peak	Average	
0.15 - 0.50	66 to 56	56 to 46	
0.50 - 5	56	46	
5 - 30	60	50	

NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup







2.5.4. Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.5.5. Test Results

The EUT configuration of the emission tests is NFC Tx + USB Cable (Charging from Adapter).











2.6. Radiated Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level. If the transmitter uses an RMS average conducted power limit, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the estricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

§15.209(a) Radiated emission limits:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)	
0.009 - 0.490	2400/F(kHz)	300	
0.490 - 1.705	24000/F(kHz)	30	
1.705 - 30.0	30	30	
30 - 88	100	3	
88 - 216	150	3	
216 - 960	200	3	
Above 960	500	3	

Note:

- 1. The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.
- 2. The EUT was connected to a 120VAC/60Hz power source.

2.6.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.



2.6.3. Test Setup

For radiated emissions from 9 kHz to 30 \ensuremath{MHz}



For radiated emissions from 30MHz to 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10:2013. The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2013.



For the Test Antenna:

- (a) In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz). Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

2.6.4. Test Results

According to ANSI C63.10-2013 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$\begin{split} & E \left[dB \mu V/m \right] = U_R + A_T + A_{Factor} \left[dB \right]; A_T = L_{Cable loss} \left[dB \right] \text{-}G_{preamp} \left[dB \right] \\ & A_T: \text{ Total correction Factor except Antenna} \\ & U_R: \text{Receiver Reading} \\ & G_{preamp}: \text{ Preamplifier Gain} \\ & A_{Factor}: \text{ Antenna Factor at } 3m \\ & L_{Cable loss}: \text{ Cable loss} \end{split}$$

During the test, the total correction Factor AT and A_{Factor} were built in test software.

The radiated frequency ranges from 9 kHz to1 GHz.



For 9 kHz to 30MHz

Test site:	5M anechoic chamber	Environment:	Temp: 23℃; Humi:59%;101kPa		
Operator:	Cai Fujie	Test Date:	2024.03.13		
Test Mode:	NFC - Tx	Polarization:	Horizontal		
140 130 120 100 90 80 70 60 50 40 30 20 10 0 -10 -10 -0 -0 -0 -0 -0 -0 -0 -0 -0 -	look Horizontal PK	IM Frequency[Hz]	FCC(0.009-30MHz)-PK Limit		

NO. [Mł	Freq.	Level	Factor	Limit	Margin	Height	Angle	Delerity
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[cm]	[°]	Polarity
1	0.01	-12.84	-19.19	128.52	141.36	100	232	Horizontal
2	0.08	-1.41	-19.10	109.75	111.08	100	336	Horizontal
3	0.52	-9.26	-18.80	73.31	82.57	100	332	Horizontal
4	1.24	-9.38	-18.64	65.70	75.08	100	200	Horizontal
5	5.95	-8.74	-18.60	69.54	78.28	100	98	Horizontal
6	22.51	-3.61	-18.51	69.54	73.15	100	341	Horizontal

Test Result : Pass







3M anechoic chamber Test site: Environment: Temp: 23°C; Humi:48%;101kPa 2023.10.10 Operator: HuangChaoMing Test Date: Horizontal Test Mode: NFC - TX Polarization: EMI Sw eep-3M(30-1G) 80 78.597194 MHz 70 131.082164 MHz 26.525 dBµV/ 825.050100 MHz 19.603 dBµV/ 31.863 dBµV/ 60 412.945892 MHz PART 15 CLASS B 3m 90.260521 MHz 30.000000 MHz 26.973 dBµV/ 20.818 dBµV/ 502 2.577 dBµV/ Level in dBµW 40 30 20 10 0^{+} 30M 50 60 80 100M 200 300 400 500 800 1G Frequency in Hz Frequency QuasiPeak Bandwidth Height Corr. Margin -Limit -Polarity (dB|IV/m)(MHz) (kHz) (cm)(dB/m)**QPK QPK** 30.000000 21.99 120.000 100.0 Η 21.1 18.01 40.0 78.600000 120.000 100.0 Η 9.4 14.59 40.0 25.41 19.48 90.280000 120.000 100.0 Η 11.3 24.02 43.5

For 30MHz to 1000MHz

Test Result : Pass

131.080000

412.960000

825.040000

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).

100.0

100.0

100.0

Н

Η

Η

13.6

18.5

23.6

25.07

20.70

15.77

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).

120.000

120.000

120.000

3. Margin value = Limit value - Emission Level.

18.43

25.30

30.23

- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.

43.5

46.0

46.0





Remark:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
- **3**. Margin value = Limit value Emission Level.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.



3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2022.06.09	2026.06.08
2	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
3	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2023.06.08	2024.06.07
4	EMI Horn Ant. (1-18G)	ETC	MCTD-1209	A150402241	2023.05.16	2026.05.15
5	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2023.06.01	2024.05.31
6	Amplifier 30M~1GHz	MILMEGA	80RF1000-1000	A140101634	2023.10.20	2024.10.19
7	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2023.10.20	2024.10.19
8	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2024.01.18	2025.01.17
9	Test Receiver	R&S	ESIB7	A0501375	2023.03.16 2024.02.28	2024.03.15 2025.02.27
10	Broadband Ant.	ETC	MCTD 2786	A150402240	2023.05.22	2026.05.21
11 3M Anechoic Chamb	3M Anechoic Chamber	Albatross	SAC-3MAC	A0412375	2019.03.26	2024.03.25
			9*6*6m		2024.02.27	2027.02.26
12	Temperature	ESPEC	SU-642	A150802409	2023.03.18	2024.03.17
	chamber				2024.02.22	2025.02.21
13	Test Receiver	KEYSIGHT	N9038A	A141202036	2023.06.12	2024.06.11
14	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2023.06.08	2024.06.07



4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	2.8dB				
Uncertainty of Radiated Emission Measurement (9kHz~30MHz)					
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	3.5dB				
Uncertainty of Radiated Emission Measurement (30MHz~1GHz)					
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	3.91dB				
Uncertainty of Radiated Emission Measurement (1GHz~18GHz)					
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	4.5dB				
Uncertainty of Radiated Emission Measurement (180	Uncertainty of Radiated Emission Measurement (18GHz~40GHz)				
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	4.9dB				
Uncertainty of RF Conducted Measurement (9kHz~4	0GHz)				
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	1.2dB				
Uncertainty of Occupied Bandwidth Measurement					
Measuring Uncertainty for a level of confidence of 95%(U=2Uc(y))	1.2%				
END OF REPORT					