



FCC Test Report

APPLICANT : COOSEA GROUP (HK) COMPANY LIMITED
EQUIPMENT : Feature phone
MODEL NAME : SL006D
FCC ID : 2A28USL006D
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : May 12, 2023 ~ May 24, 2023

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC340708	Rev. 01	Initial issue of report	Jul. 04, 2023



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 3.57 dB at 2.810 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 2.31 dB at 53.280 MHz for Quasi-Peak

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1. General Description

1.1. Applicant

COOSEA GROUP (HK) COMPANY LIMITED

UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

1.2. Manufacturer

COOSEA GROUP (HK) COMPANY LIMITED

UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Feature phone
Model Name	SL006D
FCC ID	2A28USL006D
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth / GNSS / FM
IMEI Code	Conduction: 358957940006314 Radiation: 358957940007056
HW Version	1.0
SW Version	SL006DD10008
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 14 : 788 MHz ~ 798 MHz LTE Band 30 : 2305 MHz ~ 2315 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Rx Frequency	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV : 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 14 : 758 MHz ~ 768 MHz LTE Band 30 : 2350 MHz ~ 2360 MHz LTE Band 66 : 2110 MHz~ 2180 MHz LTE Band 71 : 617 MHz ~ 652 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz FM : 88 MHz ~ 108 MHz
Antenna Type	WWAN : Fixed Internal Antenna Bluetooth/WLAN/GNSS : IFA Antenna FM : External Earphone Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK FM



1.5. Modification of EUT

No modifications are made to the EUT during all test items.

1.6. Test Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b



1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart B
- ♦ ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2. Test Configuration of Equipment Under Test

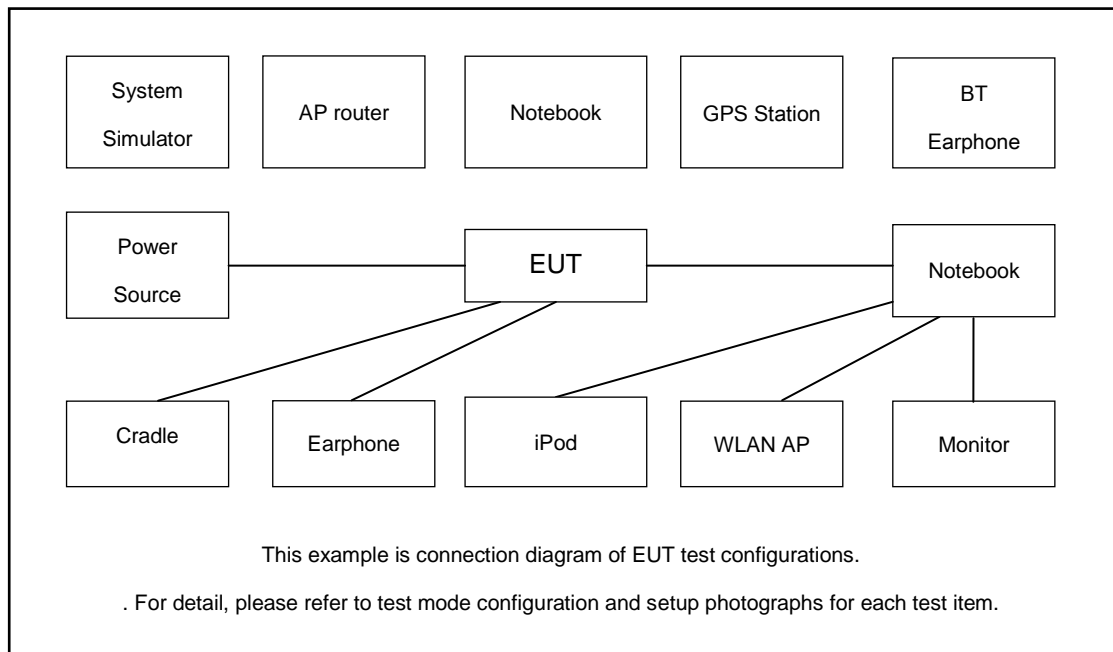
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Idle(Middle CH)+ Camera(Rear)+ Earphone+ USB Cable(Charging from Adapter)+ SD Card Load+ Battery
	Mode 2: WCDMA Band V Idle(Low CH)+ FM(98MHz)RX+ Earphone+ USB Cable(Data Link with Notebook)(EUT(eMMC)to NB)+ SD Card Load+ Battery
	Mode 3: LTE Band 12 Idle(Low CH)+ MPEG4(Color Bar)+ Earphone+ USB Cable(Data Link with Notebook)(NB to EUT (eMMC))+ SD Card Load+ Battery
	Mode 4: LTE Band 14 Idle(High CH)+H-Pattern+ Earphone+ USB Cable(Data Link with Notebook)(EUT (SD card)to NB)+ SD Card Link+ Battery
	Mode 5: LTE Band 71 Idle(Middle CH)+ H-Pattern+Earphone+ USB Cable(Data Link with Notebook)(NB to EUT (SD card))+ SD Card Link+ Battery
Radiated Emissions	Mode 1: GSM 850 Idle(Middle CH)+ Camera(Rear)+ Earphone+ USB Cable(Charging from Adapter)+ SD Card Load+ Battery
	Mode 2: WCDMA Band V Idle(Low CH)+ FM RX+ Earphone+ USB Cable(Data Link with Notebook)(EUT(eMMC)to NB)+ SD Card Load+ Battery
	Mode 3: LTE Band 12 Idle(Low CH)+ MPEG4(Color Bar)+ Earphone+ USB Cable(Data Link with Notebook)(NB to EUT (eMMC))+ SD Card Load+ Battery
	Mode 4: LTE Band 14 Idle(High CH)+ Earphone+ USB Cable(Data Link with Notebook)(EUT (SD card)to NB)+ SD Card Link+ Battery
	Mode 5: LTE Band 71 Idle(Middle CH)+ Earphone+ USB Cable(Data Link with Notebook)(NB to EUT (SD card))+ SD Card Link+ Battery
Remark:	
<ol style="list-style-type: none"> 1. The worst case of AC is mode 1; only the test data of this mode is reported. 2. The worst case of RE is mode 1; only the test data of this mode is reported. 3. Data Link with Notebook means data application transferred mode between EUT and Notebook . 4. Pre-scanned Low/Middle/High channel for GSM 850/WCDMA Band V/LTE Band 12/14/71 and FM Rx, the worst channel was recorded in this report. 	

2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	System Simulator	Anritsu	MT8821	N/A	N/A	Unshielded,1.8m
3.	FM Base Station	R&S	SMB100A	Fcc DoC	N/A	Shielded, 1.5m
4.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
5.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	Notebook	DELL	Inspiron 15-7570	Fcc DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	SD Card	N/A	MicroSD HC	N/A	N/A	N/A
9.	SD Card	Kingston	3300-10000-078	Fcc DoC	N/A	N/A
10.	iPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A
11.	Earphone	apple	DCAY1V-A900FZJW3-000	N/A	N/A	N/A
12.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A



2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

1. Data application is transferred between notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on MPEG4 function.
4. Execute "H Pattern" to show H Pattern via USB Cable on the Notebook.
5. Turn on FM function to make the EUT receive continuous signals from FM station.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

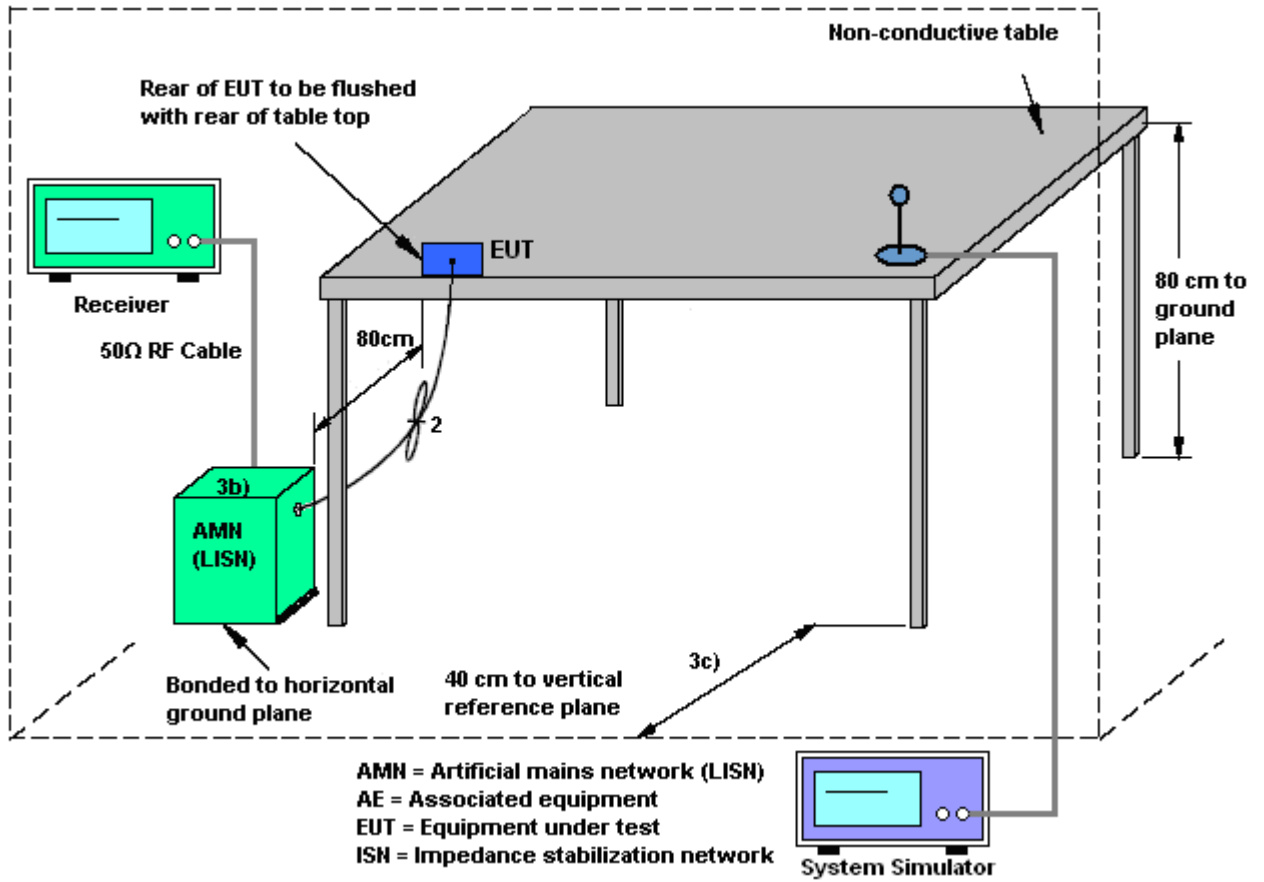
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

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 microhenry 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.

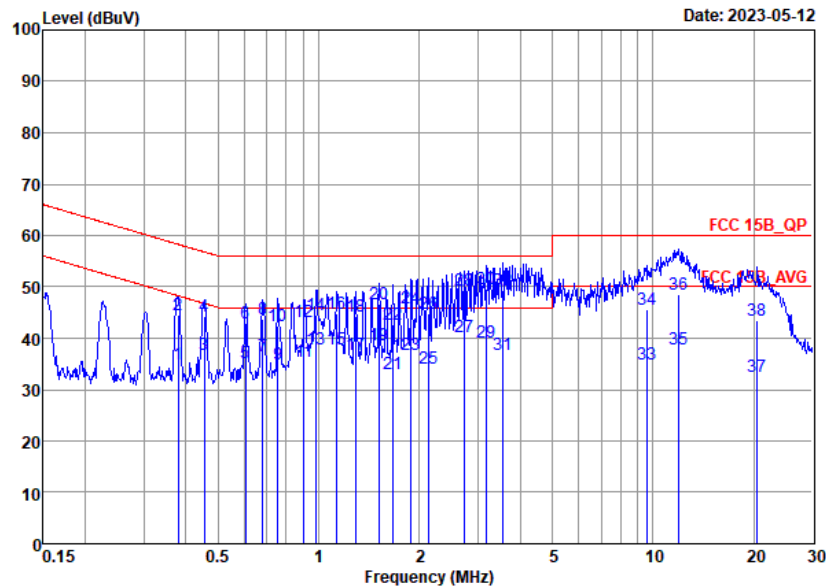
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

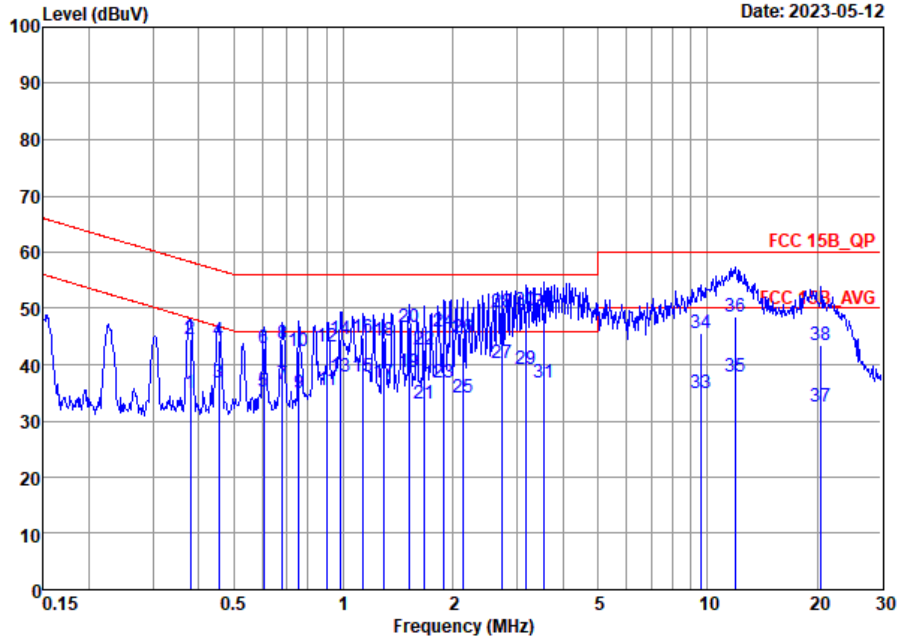


Site : C001-SZ
 Condition: FCC 15B_QP LISN_20230420_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.38	35.05	-13.25	48.30	14.60	10.29	10.16	Average
2	0.38	44.65	-13.65	58.30	24.20	10.29	10.16	QP
3	0.45	36.73	-10.07	46.80	16.30	10.27	10.16	Average
4	0.45	44.23	-12.57	56.80	23.80	10.27	10.16	QP
5	0.60	35.13	-10.87	46.00	14.70	10.27	10.16	Average
6	0.60	42.83	-13.17	56.00	22.40	10.27	10.16	QP
7	0.68	36.41	-9.59	46.00	16.00	10.25	10.16	Average
8	0.68	43.71	-12.29	56.00	23.30	10.25	10.16	QP
9	0.75	34.81	-11.19	46.00	14.40	10.25	10.16	Average
10	0.75	42.51	-13.49	56.00	22.10	10.25	10.16	QP
11	0.90	35.59	-10.41	46.00	15.20	10.23	10.16	Average
12	0.90	43.19	-12.81	56.00	22.80	10.23	10.16	QP
13	0.98	37.80	-8.20	46.00	17.40	10.24	10.16	Average
14	0.98	44.50	-11.50	56.00	24.10	10.24	10.16	QP
15	1.14	37.91	-8.09	46.00	17.51	10.23	10.17	Average
16	1.14	44.81	-11.19	56.00	24.41	10.23	10.17	QP
17	1.29	36.80	-9.20	46.00	16.40	10.21	10.19	Average
18	1.29	44.20	-11.80	56.00	23.80	10.21	10.19	QP
19	1.51	38.78	-7.22	46.00	18.40	10.18	10.20	Average
20	1.51	46.58	-9.42	56.00	26.20	10.18	10.20	QP
21	1.67	33.18	-12.82	46.00	12.80	10.17	10.21	Average
22	1.67	42.78	-13.22	56.00	22.40	10.17	10.21	QP
23	1.89	36.68	-9.32	46.00	16.30	10.16	10.22	Average



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

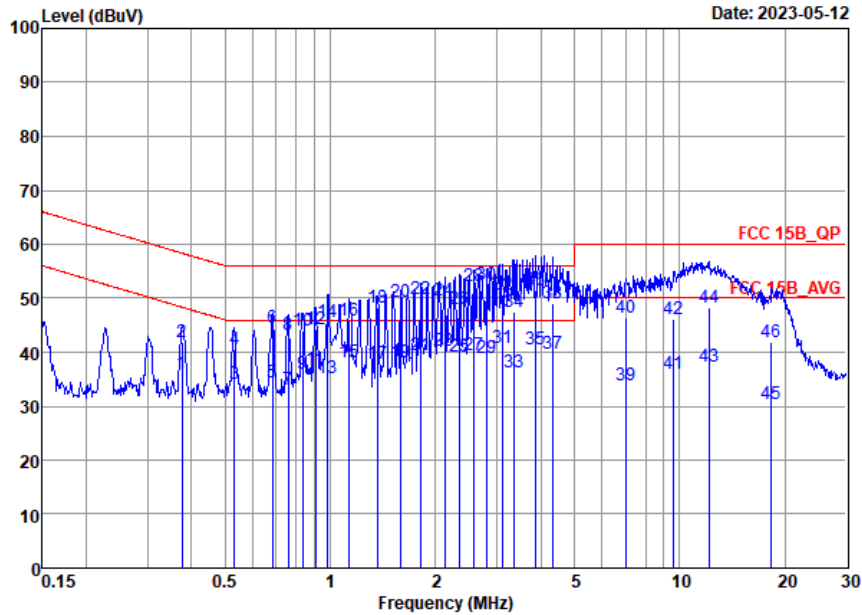


Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20230420_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
24	1.89	45.98	-10.02	56.00	25.60	10.16	10.22	QP
25	2.13	34.06	-11.94	46.00	13.70	10.12	10.24	Average
26	2.13	44.86	-11.14	56.00	24.50	10.12	10.24	QP
27 *	2.72	40.24	-5.76	46.00	19.90	10.07	10.27	Average
28	2.72	49.24	-6.76	56.00	28.90	10.07	10.27	QP
29	3.17	39.17	-6.83	46.00	18.80	10.08	10.29	Average
30	3.17	49.67	-6.33	56.00	29.30	10.08	10.29	QP
31	3.57	36.78	-9.22	46.00	16.40	10.07	10.31	Average
32	3.57	49.28	-6.72	56.00	28.90	10.07	10.31	QP
33	9.55	34.87	-15.13	50.00	14.60	9.89	10.38	Average
34	9.55	45.47	-14.53	60.00	25.20	9.89	10.38	QP
35	11.93	37.80	-12.20	50.00	17.50	9.87	10.43	Average
36	11.93	48.40	-11.60	60.00	28.10	9.87	10.43	QP
37	20.49	32.49	-17.51	50.00	12.01	9.90	10.58	Average
38	20.49	43.59	-16.41	60.00	23.11	9.90	10.58	QP



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

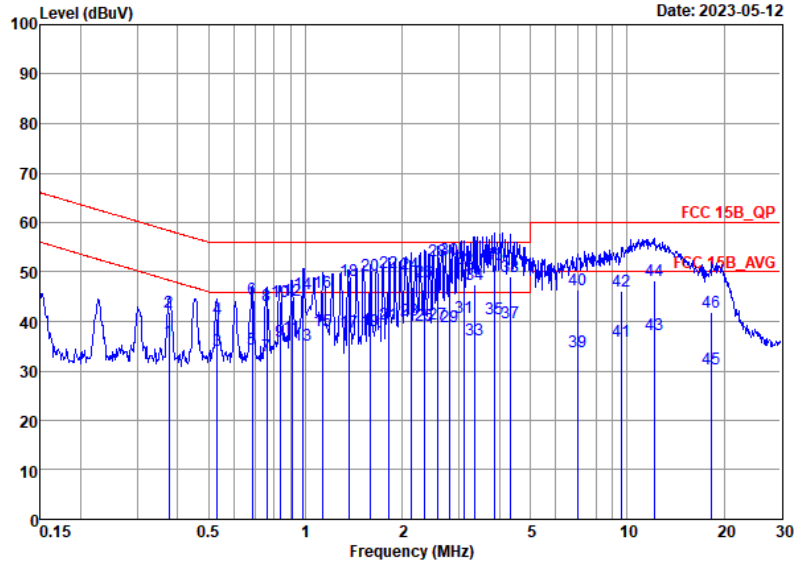


Site : CO01-SZ
 Condition: FCC 15B QP LISN 20230420 N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.38	36.01	-12.33	48.34	15.60	10.25	10.16	Average
2	0.38	41.91	-16.43	58.34	21.50	10.25	10.16	QP
3	0.53	34.18	-11.82	46.00	13.80	10.22	10.16	Average
4	0.53	40.48	-15.52	56.00	20.10	10.22	10.16	QP
5	0.68	34.53	-11.47	46.00	14.10	10.27	10.16	Average
6	0.68	44.63	-11.37	56.00	24.20	10.27	10.16	QP
7	0.76	33.01	-12.99	46.00	12.60	10.25	10.16	Average
8	0.76	43.11	-12.89	56.00	22.70	10.25	10.16	QP
9	0.83	36.09	-9.91	46.00	15.70	10.23	10.16	Average
10	0.83	43.99	-12.01	56.00	23.60	10.23	10.16	QP
11	0.91	36.88	-9.12	46.00	16.50	10.22	10.16	Average
12	0.91	44.38	-11.62	56.00	24.00	10.22	10.16	QP
13	0.98	35.30	-10.70	46.00	14.90	10.24	10.16	Average
14	0.98	45.50	-10.50	56.00	25.10	10.24	10.16	QP
15	1.14	38.04	-7.96	46.00	17.60	10.27	10.17	Average
16	1.14	45.74	-10.26	56.00	25.30	10.27	10.17	QP
17	1.37	37.76	-8.24	46.00	17.30	10.27	10.19	Average
18	1.37	48.36	-7.64	56.00	27.90	10.27	10.19	QP
19	1.59	38.26	-7.74	46.00	17.80	10.25	10.21	Average
20	1.59	49.46	-6.54	56.00	29.00	10.25	10.21	QP
21	1.82	39.45	-6.55	46.00	19.00	10.23	10.22	Average
22	1.82	49.75	-6.25	56.00	29.30	10.23	10.22	QP
23	2.12	40.33	-5.67	46.00	19.89	10.20	10.24	Average



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20230420_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
24	2.12	49.63	-6.37	56.00	29.19	10.20	10.24	QP
25	2.35	39.13	-6.87	46.00	18.71	10.17	10.25	Average
26	2.35	47.93	-8.07	56.00	27.51	10.17	10.25	QP
27	2.58	39.52	-6.48	46.00	19.10	10.16	10.26	Average
28	2.58	52.22	-3.78	56.00	31.80	10.16	10.26	QP
29	2.81	38.83	-7.17	46.00	18.41	10.15	10.27	Average
30 *	2.81	52.43	-3.57	56.00	32.01	10.15	10.27	QP
31	3.11	40.84	-5.16	46.00	20.40	10.15	10.29	Average
32	3.11	50.74	-5.26	56.00	30.30	10.15	10.29	QP
33	3.35	36.35	-9.65	46.00	15.90	10.15	10.30	Average
34	3.35	47.45	-8.55	56.00	27.00	10.15	10.30	QP
35	3.86	40.47	-5.53	46.00	20.00	10.15	10.32	Average
36	3.86	51.47	-4.53	56.00	31.00	10.15	10.32	QP
37	4.31	39.67	-6.33	46.00	19.20	10.14	10.33	Average
38	4.31	49.07	-6.93	56.00	28.60	10.14	10.33	QP
39	7.02	33.91	-16.09	50.00	13.50	10.05	10.36	Average
40	7.02	46.41	-13.59	60.00	26.00	10.05	10.36	QP
41	9.60	35.91	-14.09	50.00	15.50	10.03	10.38	Average
42	9.60	46.11	-13.89	60.00	25.70	10.03	10.38	QP
43	12.12	37.39	-12.61	50.00	17.00	9.96	10.43	Average
44	12.12	48.19	-11.81	60.00	27.80	9.96	10.43	QP
45	18.33	30.53	-19.47	50.00	10.20	9.79	10.54	Average
46	18.33	41.83	-18.17	60.00	21.50	9.79	10.54	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

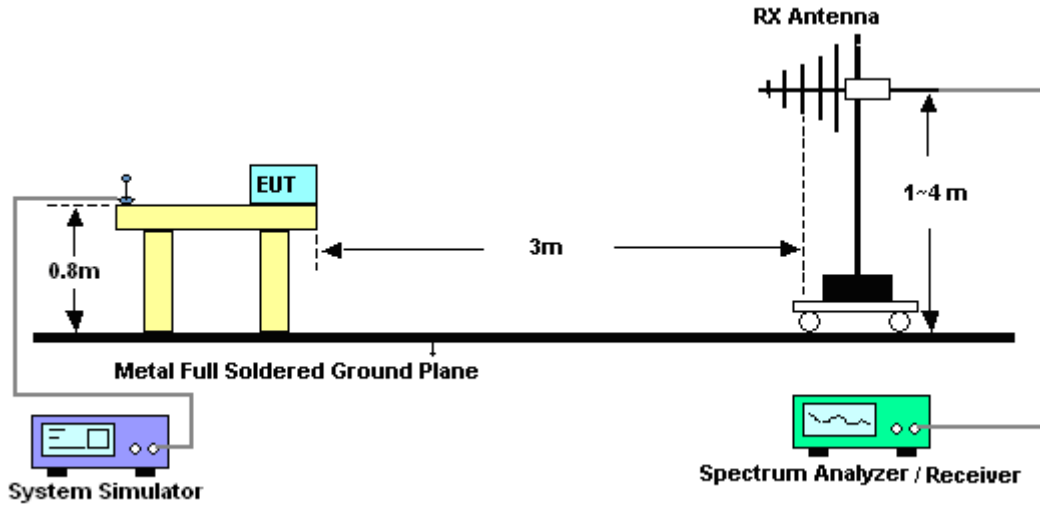


3.2.3. Test Procedures

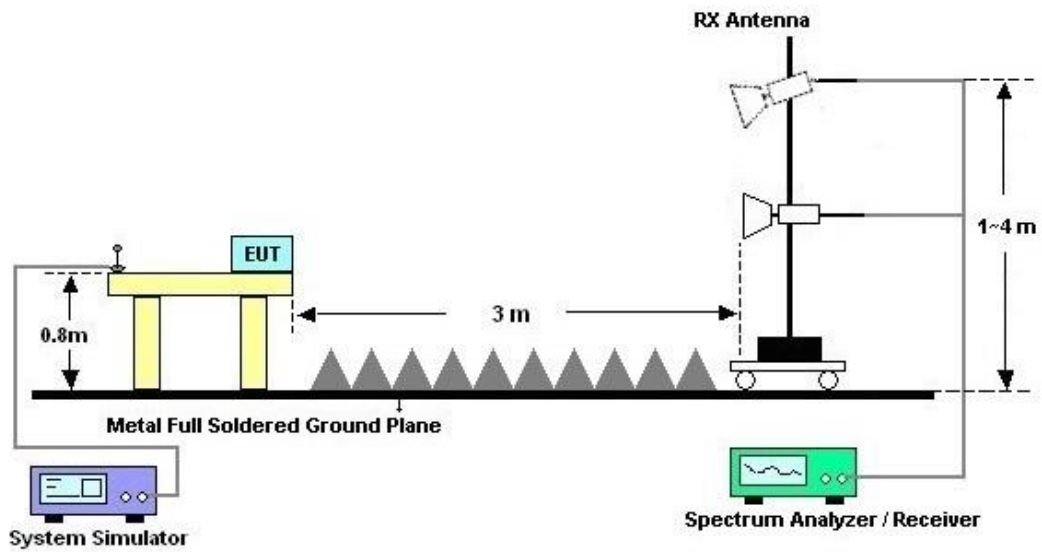
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



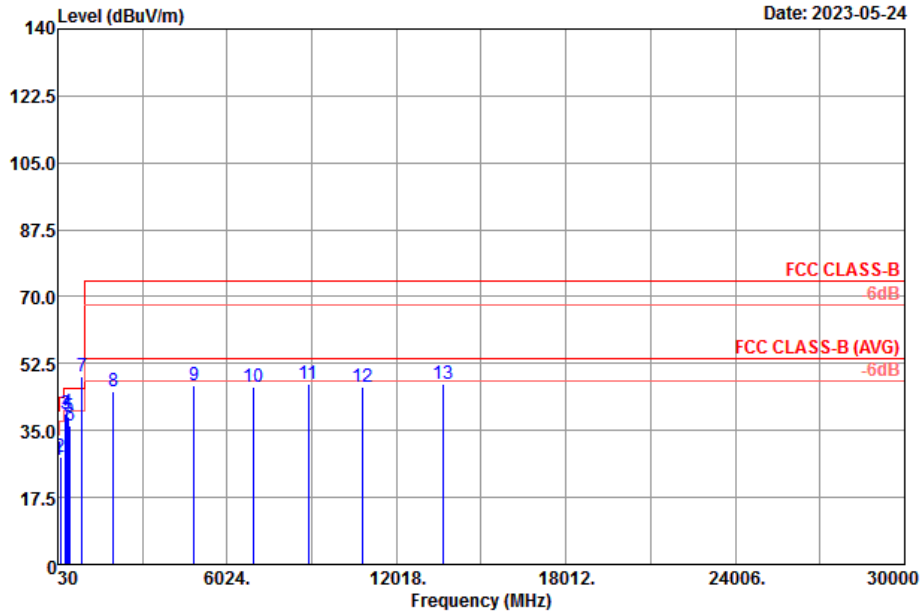
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Kuang Jia	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		

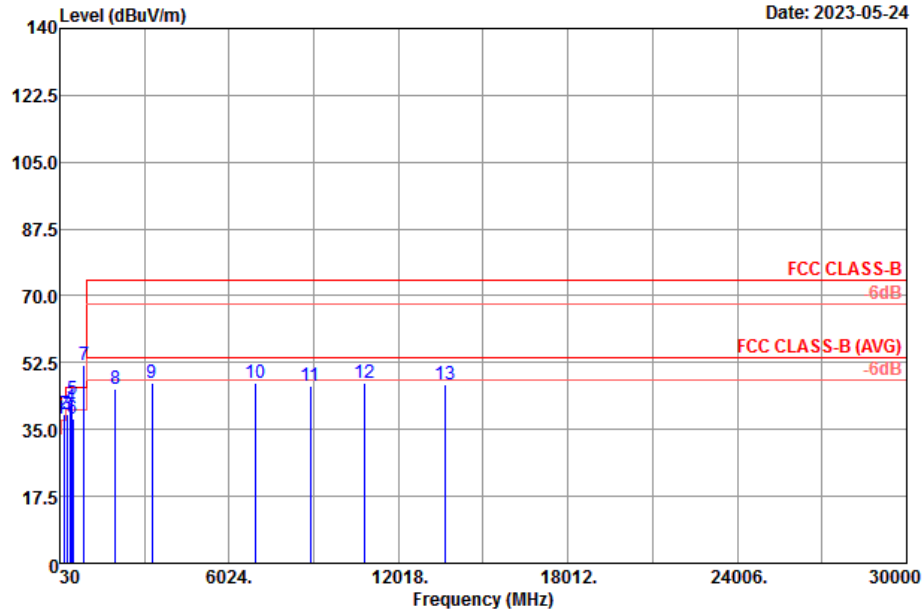


Site : 03CH04-SZ
 Condition : FCC CLASS-B 3m LF_ANT35408 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	50.370	27.13	-12.87	40.00	43.84	14.30	0.71	31.72	---	---	Peak
2	131.850	28.15	-15.35	43.50	40.81	17.72	1.17	31.55	---	---	Peak
3	312.270	39.24	-6.76	46.00	48.86	19.62	1.85	31.09	---	---	Peak
4	359.800	39.66	-6.34	46.00	47.90	20.80	2.00	31.04	---	---	Peak
5	408.300	38.50	-7.50	46.00	45.39	21.97	2.12	30.98	---	---	Peak
6	455.830	36.33	-9.67	46.00	42.08	22.92	2.22	30.89	---	---	Peak
7 *	881.660	49.10			50.40	26.64	3.12	31.06	---	---	Peak
8	2005.000	45.12	-28.88	74.00	41.72	32.31	4.89	33.80	---	---	Peak
9	4858.000	46.87	-27.13	74.00	34.93	36.11	8.76	32.93	---	---	Peak
10	6976.000	46.54	-27.46	74.00	32.91	36.90	10.23	33.50	---	---	Peak
11	8908.000	47.10	-26.90	74.00	30.85	38.45	11.06	33.26	---	---	Peak
12	10818.000	46.44	-27.56	74.00	27.65	39.56	12.40	33.17	---	---	Peak
13	13652.000	47.09	-26.91	74.00	26.37	40.69	13.76	33.73	---	---	Peak



Test Engineer :	Kuang Jia	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH04-SZ
 Condition : FCC CLASS-B 3m LF ANT35408 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	53.280	37.69	-2.31	40.00	55.12	13.70	0.73	31.86	100	122 QP
2	163.860	38.96	-4.54	43.50	52.97	16.05	1.31	31.37	---	Peak
3	312.270	39.07	-6.93	46.00	48.69	19.62	1.85	31.09	---	Peak
4	408.300	41.08	-4.92	46.00	47.97	21.97	2.12	30.98	---	Peak
5	455.830	42.75	-3.25	46.00	48.50	22.92	2.22	30.89	100	25 QP
6	504.330	37.69	-8.31	46.00	42.32	23.84	2.34	30.81	---	Peak
7 *	881.660	51.67			52.97	26.64	3.12	31.06	---	Peak
8	2010.000	45.67	-28.33	74.00	42.25	32.33	4.89	33.80	---	Peak
9	3290.000	47.28	-26.72	74.00	40.31	33.99	6.61	33.63	---	Peak
10	6948.000	47.32	-26.68	74.00	33.70	36.90	10.23	33.51	---	Peak
11	8910.000	46.23	-27.77	74.00	29.97	38.46	11.06	33.26	---	Peak
12	10812.000	47.04	-26.96	74.00	28.26	39.56	12.40	33.18	---	Peak
13	13646.000	46.98	-27.02	74.00	26.25	40.69	13.76	33.72	---	Peak

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	May 12, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	May 12, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	May 12, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 07, 2022	May 12, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	May 24, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	May 24, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Apr. 26, 2023	May 24, 2023	Apr. 25, 2024	Radiation (03CH04-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 19, 2022	May 24, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2022	May 24, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	May 24, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Jul. 06, 2022	May 24, 2023	Jul. 05, 2023	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 07, 2022	May 24, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov. 10, 2022	May 24, 2023	Nov. 10, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 24, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 24, 2023	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1dB
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