FCC Test Report

APPLICANT	:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	OPPO
MODEL NAME	:	CPH2737
FCC ID	:	R9C-OP24321
STANDARD	:	47 CFR Part 15 Subpart B
CLASSIFICATION	:	Certification
TEST DATE(S)	:	Mar. 14, 2025 ~ Mar. 15, 2025

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.

Fly Liang

Approved by: Fly Liang

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

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

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC521816	Rev. 01	Initial issue of report	Apr. 22, 2025

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 6.36 dB at 0.16 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 7.22 dB at 59.10 MHz

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/manufacturer 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

Guangdong OPPO Mobile Telecommunications Corp., Ltd.
NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

1.2. Manufacturer

Guangdong OPPO Mobile Telecommunications Corp., Ltd.
NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	OPPO
Model Name	CPH2737
FCC ID	R9C-OP24321
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE GNSS/NFC
IMEI Code	Conduction: 869081070034053/869081070034046 Radiation: 869081070034293/869081070034285
HW Version	11
SW Version	ColorOS 15.0
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

Product Specification subjective to this Test Standard	
Transmitter Frequency Range	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 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n77 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz; 5G NR n78 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz; WLAN 802.11b/g/n/ac/ax: 2400 MHz ~ 2483.5 MHz WLAN 802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz; 5725 MHz ~ 5850 MHz 802.11a/ax: 5945 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz

Receiver Frequency Range	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 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 66 : 2110 MHz~ 2180 MHz 5G NR n2 : 1930 MHz ~ 1990 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n12 : 729 MHz ~ 746 MHz 5G NR n26 : 859 MHz ~ 894 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 2110 MHz~ 2180 MHz 5G NR n77 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz; 5G NR n78 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz; WLAN 802.11b/g/n/ac/ax: 2400 MHz ~ 2483.5 MHz WLAN 802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz; 5725 MHz ~ 5850 MHz 802.11a/ax: 5945 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz NFC: 13.56 MHz
Antenna Type	WWAN : Metal-Frame Antenna WLAN : Metal-Frame Antenna Bluetooth : Metal-Frame Antenna GNSS: Metal-Frame Antenna NFC: FPC 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 / 64QAM / 256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM /1024QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) :π/4-DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK

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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO02-SZ ; 03CH05-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-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

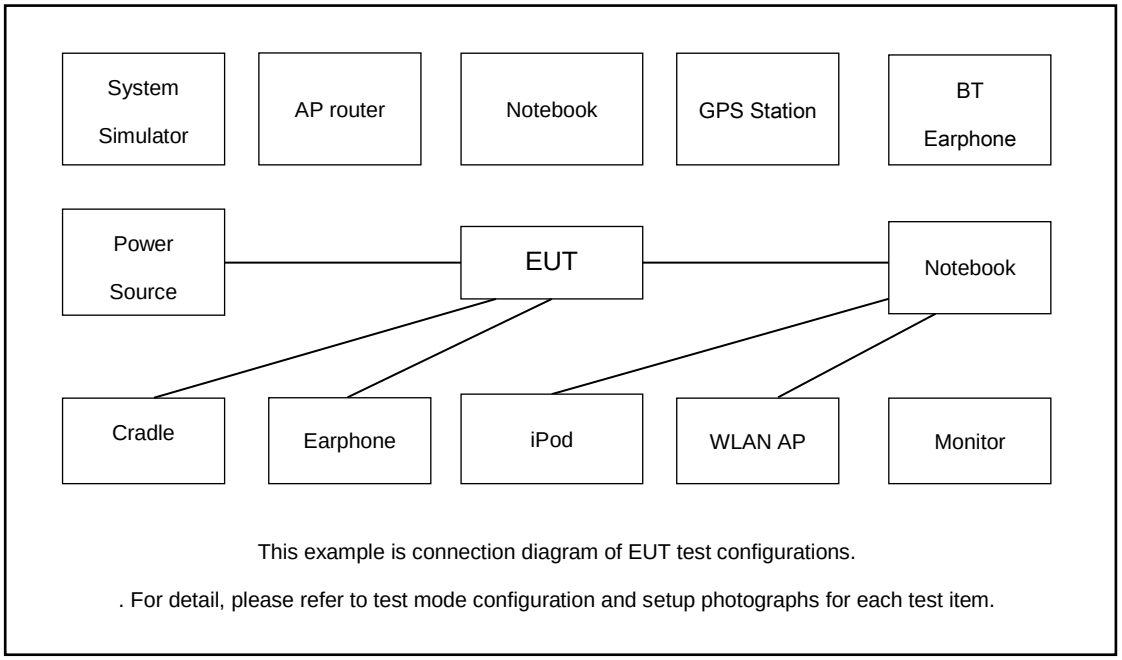
2.1. Test Mode

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) + Battery 1 + USB Cable (Charging from Adapter 1) + SIM 1 Mode 2: LTE Band 13 Idle (High CH) + Camera(Front) + Battery 1 + USB Cable (Charging from Adapter 2) + SIM 2 Mode 3: LTE Band 17 Idle (Low CH) + MPEG4 (Run Color Bar) + Battery 1 + USB Cable (EUT (eMMC) USB Data Link to NB) + E-SIM Mode 4: LTE Band 26 Idle (Low CH) + NFC ON + Battery 1 + USB Cable (NB USB Data Link to EUT (eMMC)) + SIM 1 Mode 5: SA n12A Idle (Middle CH) + GNSS RX + Battery 1 + USB Cable (NB USB Data Link to EUT (eMMC)) + SIM 2 Mode 6: NSA B7+n5A Idle (High CH) + NFC ON + Battery 1 + USB Cable (NB USB Data Link to EUT (eMMC)) + SIM 1 Mode 7: LTE Band 26 Idle (Low CH) + NFC ON + Battery 2 + USB Cable (NB USB Data Link to EUT (eMMC)) + SIM 1
Radiated Emissions	Mode 1: GSM 850 Idle (Middle CH) + Camera (Rear) + Battery 1 + USB Cable (Charging from Adapter 1) + SIM 1 Mode 2: LTE Band 13 Idle (High CH) + Camera (Front) + Battery 1 + USB Cable (Charging from Adapter 2) + SIM 2 Mode 3: LTE Band 17 Idle (Low CH) + MPEG4 (Run Color Bar) + Battery 1 + USB Cable (EUT (eMMC) USB Data Link to NB) + E-SIM Mode 4: LTE Band 26 Idle (Low CH) + NFC ON + Battery 1 + USB Cable (NB USB Data Link to EUT (eMMC)) + SIM 1 Mode 5: SA n12A Idle (Middle CH) + GNSS RX + Type C Earphone + Battery 1 + SIM 2 Mode 6: NSA B7+n5A Idle(High CH) + NFC ON + OTG Reverse charge + Type C Cable (Data from mobile phone to EUT) + SIM 1 + Battery1 Mode 7: LTE Band 26 Idle (Low CH) + NFC ON + Battery 2 + USB Cable (NB USB Data Link to EUT (eMMC)) + SIM 1
Remark: **1.** The worst case of AC is mode 4; only the test data of this mode is reported. **2.** The worst case of RE is mode 4; 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 channels, the worst channel was recorded in this report.	

2.2. Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Base Station	Anritsu	MT8821	N/A	N/A	Unshielded,1.8m
3.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
4.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded,1.8m
5.	GPS Station	Labsat	RLLS03-2P	N/A	N/A	Unshielded,1.8m
6.	IPod	Apple	MC525 ZP/A	Fcc DoC	N/A	Shielded, 1.0m
7.	IPod	Apple	N/A	MC69029/A	N/A	N/A
8.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
9.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
10.	Notebook	Thinkpad	Thinkpad E14	N/A	N/A	N/A
11.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded,1.8m
12.	Earphone	Apple	MC690ZP/A	N/A	N/A	Shielded, 1.0m
13.	Mobile phone	OPPO	CPH2737	N/A	N/A	N/A
14.	Type C cable	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or LTE or 5G NR 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.

At the same time, the following programs installed in the EUT were programmed during the test.

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. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
5. Turn on NFC function

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.

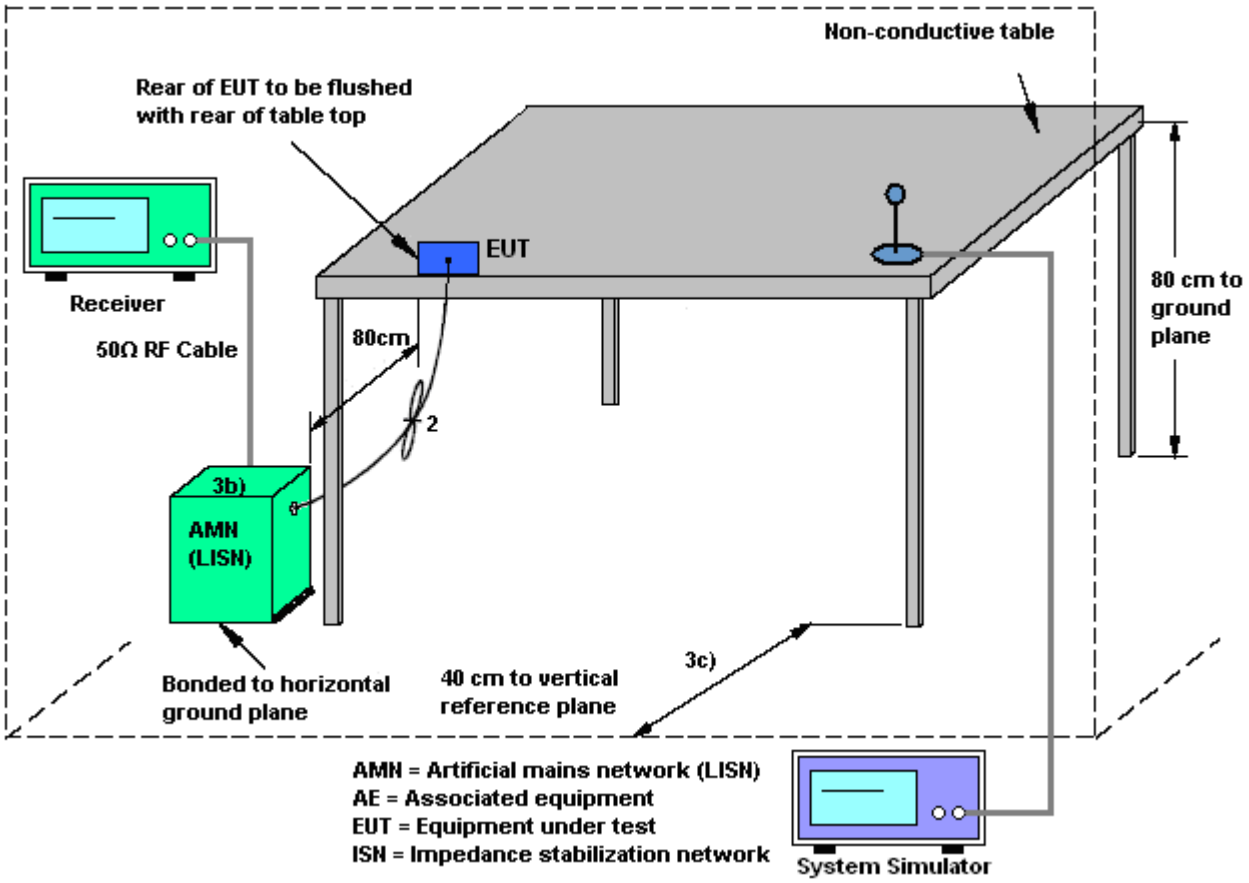
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

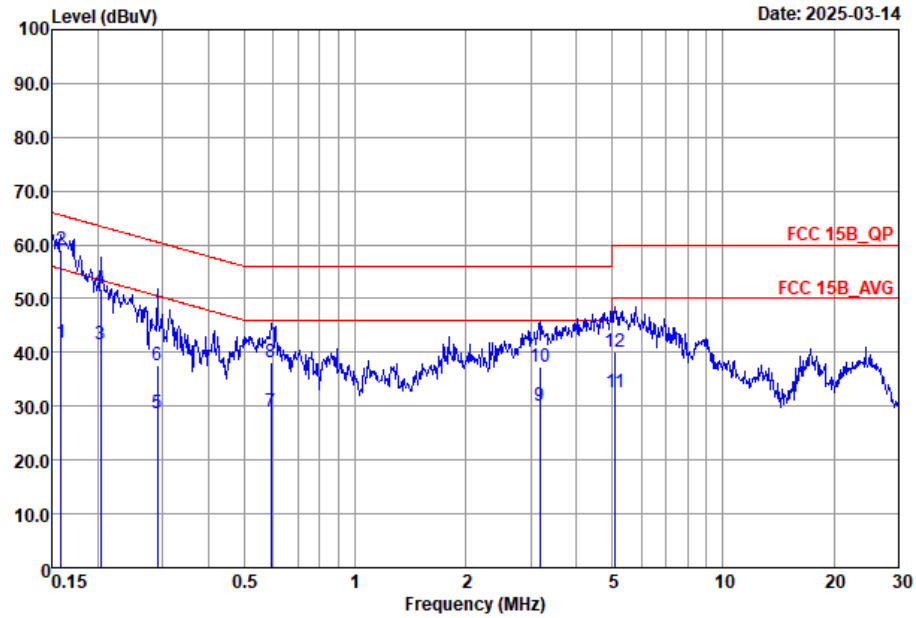
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

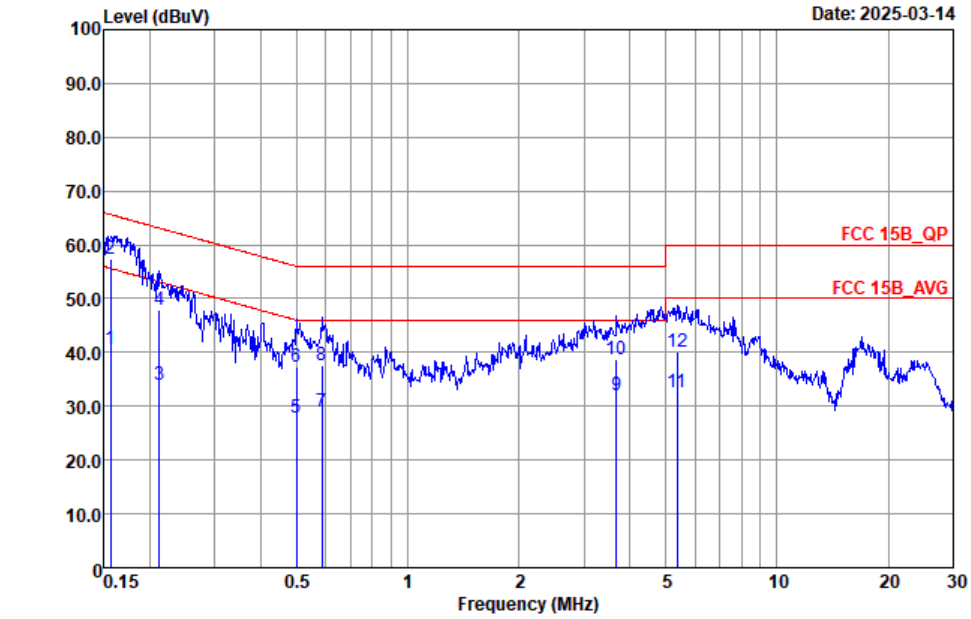
Test Engineer :	Nathon	**Temperature :**	22~24℃
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO02-SZ
Condition : FCC 15B_QP LISN_2025-L LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	41.86	-13.66	55.52	22.00	9.67	10.19	Average
2	*	0.16	59.16	-6.36	65.52	39.30	9.67	10.19	QP
3		0.20	41.39	-12.06	53.45	21.50	9.71	10.18	Average
4		0.20	51.69	-11.76	63.45	31.80	9.71	10.18	QP
5		0.29	28.76	-21.74	50.50	8.81	9.75	10.20	Average
6		0.29	37.66	-22.84	60.50	17.71	9.75	10.20	QP
7		0.59	29.10	-16.90	46.00	9.20	9.66	10.24	Average
8		0.59	38.10	-17.90	56.00	18.20	9.66	10.24	QP
9		3.17	30.13	-15.87	46.00	10.20	9.66	10.27	Average
10		3.17	37.43	-18.57	56.00	17.50	9.66	10.27	QP
11		5.08	32.72	-17.28	50.00	12.80	9.65	10.27	Average
12		5.08	40.02	-19.98	60.00	20.10	9.65	10.27	QP

Test Engineer :	Nathon	**Temperature :**	22~24℃
		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 : CO02-SZ
Condition : FCC 15B_QP LISN_2025-N NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	40.80	-14.85	55.65	20.99	9.62	10.19	Average
2	*	0.16	57.30	-8.35	65.65	37.49	9.62	10.19	QP
3		0.21	34.05	-19.05	53.10	14.11	9.76	10.18	Average
4		0.21	47.95	-15.15	63.10	28.01	9.76	10.18	QP
5		0.50	27.85	-18.16	46.01	8.00	9.61	10.24	Average
6		0.50	37.45	-18.56	56.01	17.60	9.61	10.24	QP
7		0.59	28.87	-17.13	46.00	8.99	9.64	10.24	Average
8		0.59	37.67	-18.33	56.00	17.79	9.64	10.24	QP
9		3.68	31.93	-14.07	46.00	11.99	9.67	10.27	Average
10		3.68	38.73	-17.27	56.00	18.79	9.67	10.27	QP
11		5.36	32.68	-17.32	50.00	12.70	9.72	10.26	Average
12		5.36	39.98	-20.02	60.00	20.00	9.72	10.26	QP

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. 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

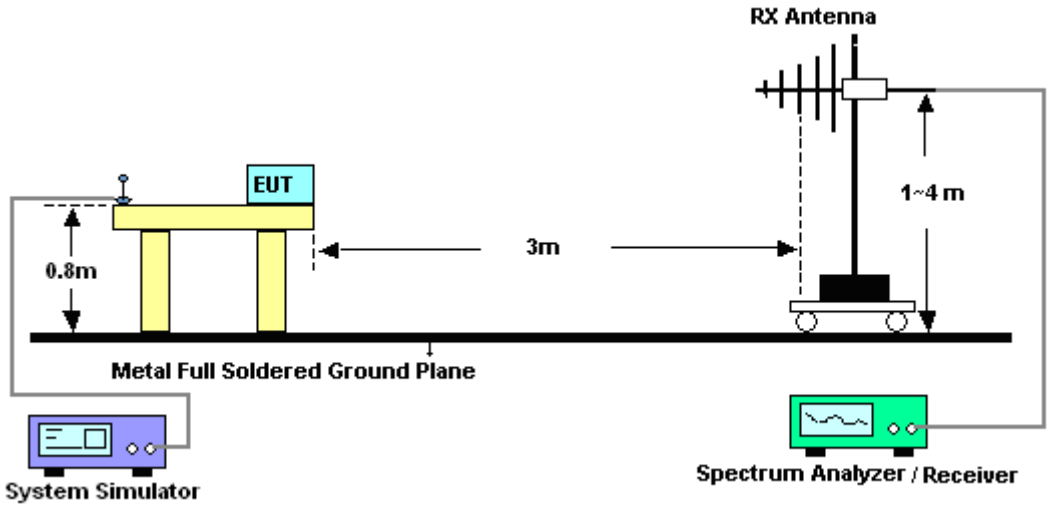
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

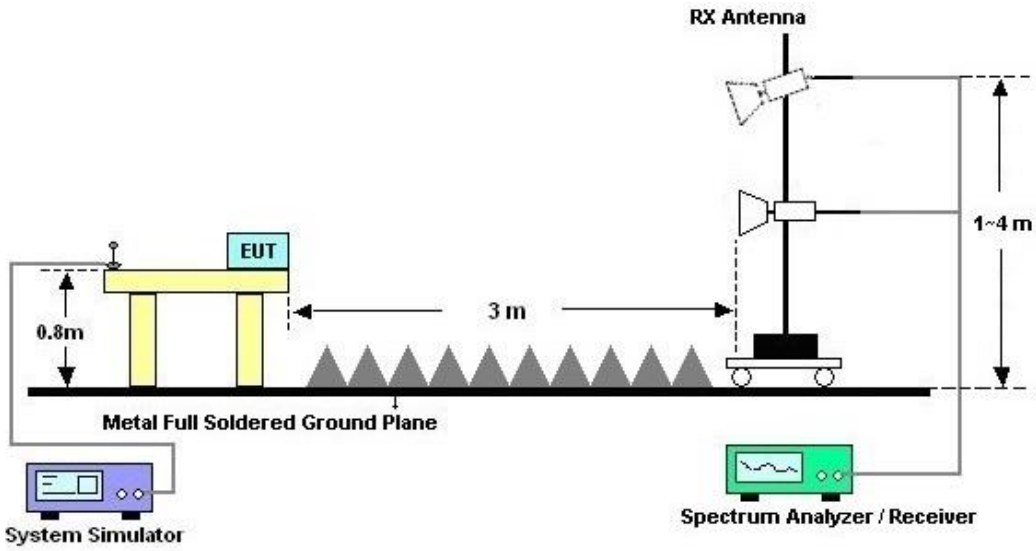
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dBμV/m) = 20 log Emission level (μV/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

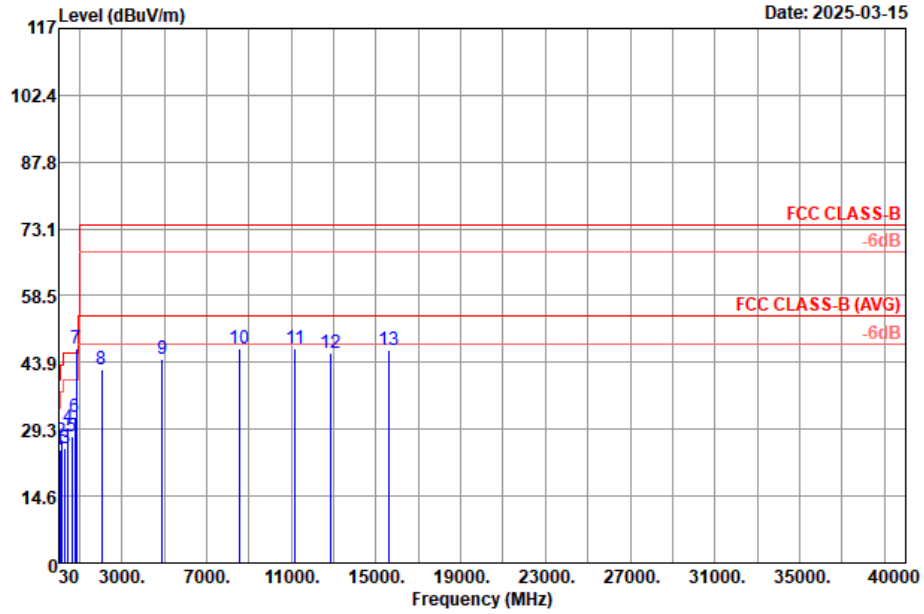


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

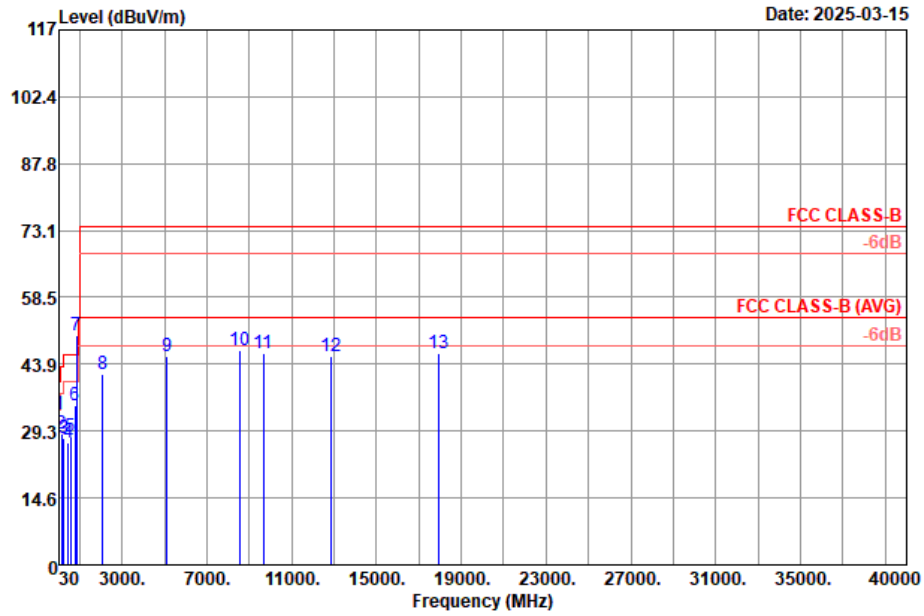
Test Engineer :	TaoZhang	**Temperature :**	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	**Polarization :**	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH05-SZ
Condition : FCC CLASS-B 3m VULB9168--01003 HORIZONTAL

		Freq	Level	Over Limit	Limit Line	Read 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		70.74	24.88	-15.12	40.00	41.04	16.80	1.84	34.80	---	---	Peak
2		170.65	26.57	-16.93	43.50	40.91	18.24	2.44	35.02	---	---	Peak
3		321.97	24.99	-21.01	46.00	36.76	20.02	3.31	35.10	---	---	Peak
4		480.08	29.66	-16.34	46.00	37.42	23.40	3.42	34.58	---	---	Peak
5		634.31	27.73	-18.27	46.00	32.23	26.19	3.64	34.33	---	---	Peak
6		800.18	32.06	-13.94	46.00	32.42	29.15	4.39	33.90	---	---	Peak
7	*	864.00	47.09			47.73	28.94	4.39	33.97	---	---	Peak
8		2040.00	42.50	-31.50	74.00	56.71	31.98	6.93	53.12	---	---	Peak
9		4904.00	44.73	-29.27	74.00	53.05	35.12	9.44	52.88	---	---	Peak
10		8552.00	46.85	-27.15	74.00	49.85	36.80	12.23	52.03	---	---	Peak
11		11196.00	47.06	-26.94	74.00	46.36	38.50	13.40	51.20	---	---	Peak
12		12879.00	46.08	-27.92	74.00	44.65	39.48	14.10	52.15	---	---	Peak
13		15633.00	46.69	-27.31	74.00	42.43	40.80	15.55	52.09	---	---	Peak

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



Site : 03CH05-SZ
Condition : FCC CLASS-B 3m VULB9168--01003 VERTICAL

		Freq	Level	Over Limit	Limit Line	Read 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		59.10	32.78	-7.22	40.00	47.14	18.88	1.74	34.98	---	---	Peak
2		170.65	28.71	-14.79	43.50	43.05	18.24	2.44	35.02	---	---	Peak
3		266.68	27.83	-18.17	46.00	41.25	18.27	3.08	34.77	---	---	Peak
4		480.08	26.65	-19.35	46.00	34.41	23.40	3.42	34.58	---	---	Peak
5		581.93	28.13	-17.87	46.00	33.15	25.86	3.56	34.44	---	---	Peak
6		798.24	34.74	-11.26	46.00	35.18	29.10	4.37	33.91	---	---	Peak
7	*	864.00	50.13			50.77	28.94	4.39	33.97	---	---	Peak
8		2088.00	41.57	-32.43	74.00	55.67	32.15	6.90	53.15	---	---	Peak
9		5136.00	45.68	-28.32	74.00	53.56	35.43	9.46	52.77	---	---	Peak
10		8552.00	46.79	-27.21	74.00	49.79	36.80	12.23	52.03	---	---	Peak
11		9666.00	46.37	-27.63	74.00	46.86	38.03	13.15	51.67	---	---	Peak
12		12825.00	45.50	-28.50	74.00	44.09	39.43	14.07	52.09	---	---	Peak
13		17919.00	46.40	-27.60	74.00	41.02	43.64	15.29	53.55	---	---	Peak

Note:

1. Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
2. 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 Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2024	Mar. 15, 2025	Jul. 07, 2025	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060781	1GHz~18GHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 09, 2024	Mar. 15, 2025	Apr. 08, 2025	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 14, 2024	Mar. 15, 2025	Oct. 13, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Mar. 15, 2025	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Mar. 15, 2025	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Mar. 14, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Mar. 14, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	Mar. 14, 2025	Dec. 24, 2025	Conduction (CO02-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))	**2.5 dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.2 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz

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

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.1 dB**

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