



FCC Test Report

APPLICANT : Sonim Technologies, Inc.
EQUIPMENT : Mobile Hotspot
BRAND NAME : Sonim
MODEL NAME : H700B
FCC ID : WYPH700B
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Mar. 27, 2025 ~ May 20, 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



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC480204	Rev. 01	Initial issue of report	May 27, 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 4.58 dB at 2.79 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 2.14 dB at 69.77 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/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

Sonim Technologies, Inc.

4445 Eastgate Mall,Suite200,San Diego, CA92121, USA

1.2. Manufacturer

Sonim Technologies, Inc.

4445 Eastgate Mall,Suite200,San Diego, CA92121, USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile HOTSPOT
Brand Name	Sonim
Model Name	H700B
FCC ID	WYPH700B
EUT supports Radios application	WCDMA/LTE/5G NR/GNSS WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 2.4GHz 802.11be EHT20/ EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 WLAN 5GHz 802.11be EHT20/EHT40/EHT80
IMEI Code	Conduction/Radiation: 351393280007588
HW Version	V3.0
SW Version	H70.0-01-22.3.0-10.25.00
EUT Stage	Identical Prototype

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	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 14 : 788 MHz ~ 798 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 30 : 2305 MHz ~ 2315 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 42 : 3450 MHz ~ 3550 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48 : 3550 MHz ~ 3700 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 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 n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz; 5G NR n78 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz; 802.11b/g/n/ac/ax/be: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac/ax/be: 5150 MHz ~ 5250 MHz; 5725 MHz ~ 5850 MHz
Rx Frequency	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 14 : 758 MHz ~ 768 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 859 MHz ~ 894 MHz

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

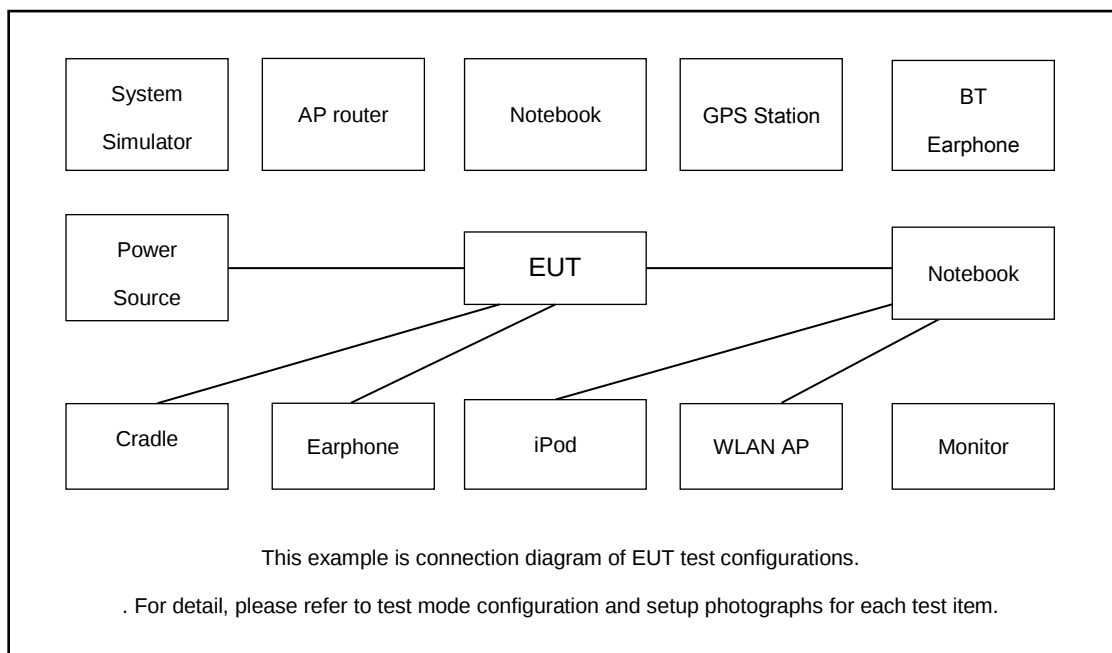
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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: WCDMA B5 idle(Low) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 2: LTE Band 12 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 3: LTE Band 13 idle(High) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 4: LTE Band 14 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 5: SA n26 idle(Low) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 6: SA n71 idle(High) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 7: LTE Band 14 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + external WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On
	Mode 8: LTE Band 14 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + external WWAN antenna + USB Dongle With Notebook + RJ45 Link(2.5G) + GNSS On

Radiated Emissions	Mode 1: WCDMA B5 idle(Low) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 2: LTE Band 12 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 3: LTE Band 13 idle(High) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 4: LTE Band 14 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 5: SA n26 idle(Low) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 6: SA n71 idle(High) + WIFI 2.4G On + WIFI 5G On + Internal WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 7: LTE Band 14 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + external WWAN antenna + Power from adapter + RJ45 Link(2.5G) + GNSS On Mode 8: LTE Band 14 idle(Middle) PC1 + WIFI 2.4G On + WIFI 5G On + external WWAN antenna + USB Dongle With Notebook + RJ45 Link(2.5G) + GNSS On
Remark: 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 4; only the test data of this mode is reported. 3. Pre-scanned Low/Middle/High channels, 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	MT8821C	N/A	N/A	Unshielded,1.8m
2.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
3.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
4.	GPS Station	Labsat	RLLS03-2P	N/A	N/A	Unshielded,1.8m
5.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded,1.8m
6.	Notebook	Thinkpad	Thinkpad E14	N/A	N/A	N/A
7.	PC	Dell	Optiplex3050	NA	N/A	N/A
8.	Monitor	Huipu	HP U28 4K HDR	N/A	N/A	Unshielded,1.8m with Core
9.	Keyboard	N/A	N/A	N/A	N/A	N/A
10.	Mouse	N/A	N/A	N/A	N/A	N/A
11.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
12.	10M reticle	Philips	Cat 7	NA	N/A	N/A
13.	External Antenna	NA	N/A	NA	N/A	NA

2.4. EUT Operation Test Setup

The EUT was in WCDMA 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. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
2. Execute "Ping" and link with Notebook/PC via RJ-45 Cable.
3. Turn on WIFI 2.4G/5G 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.

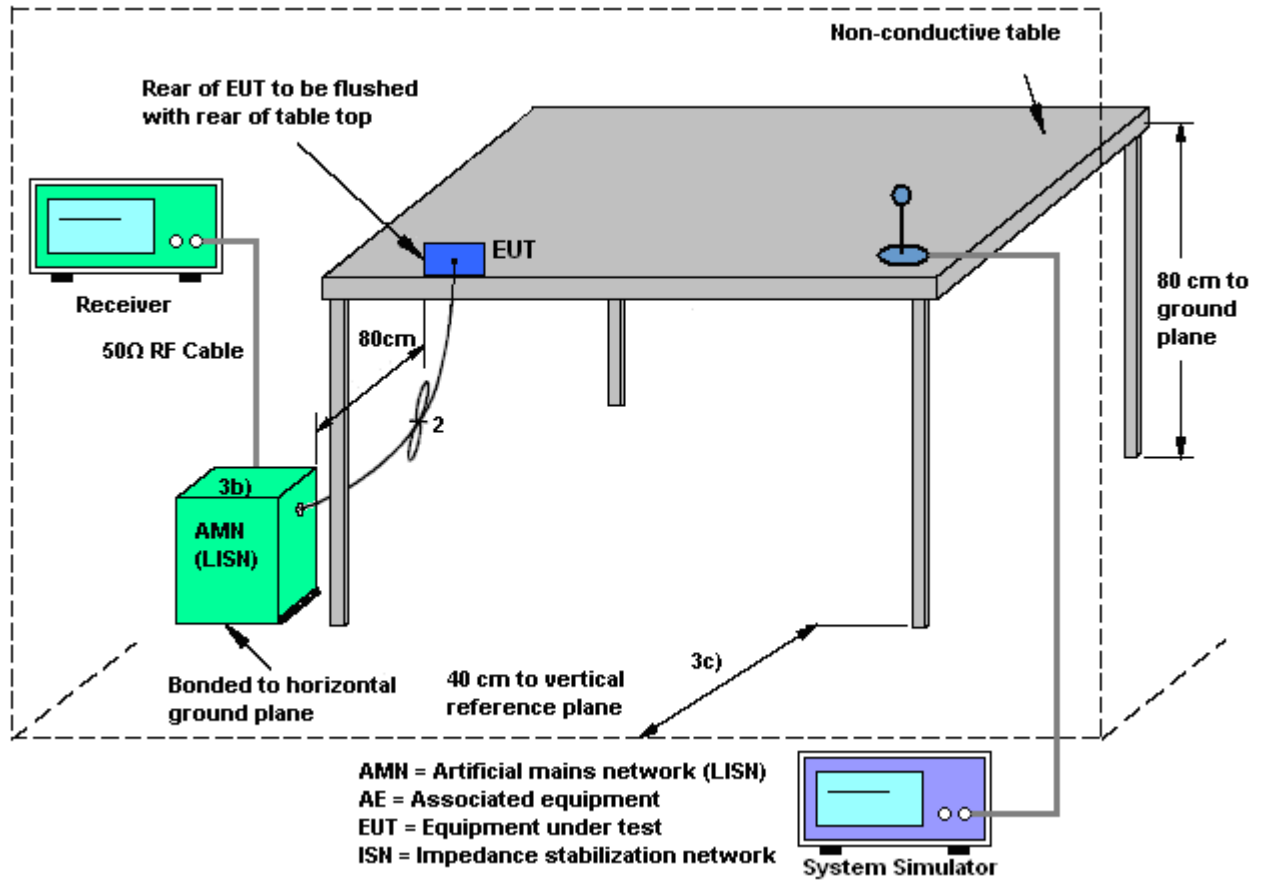
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

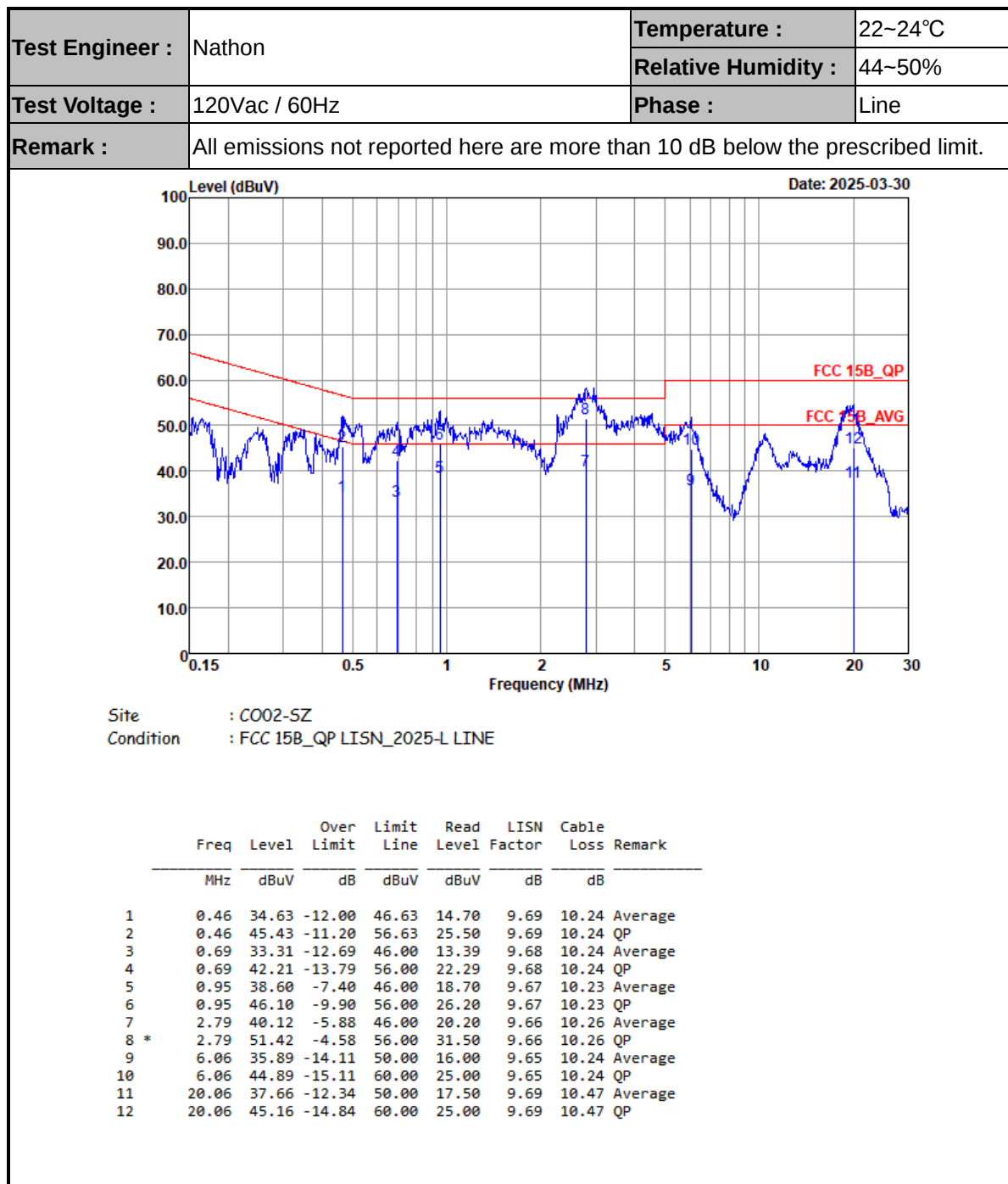
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

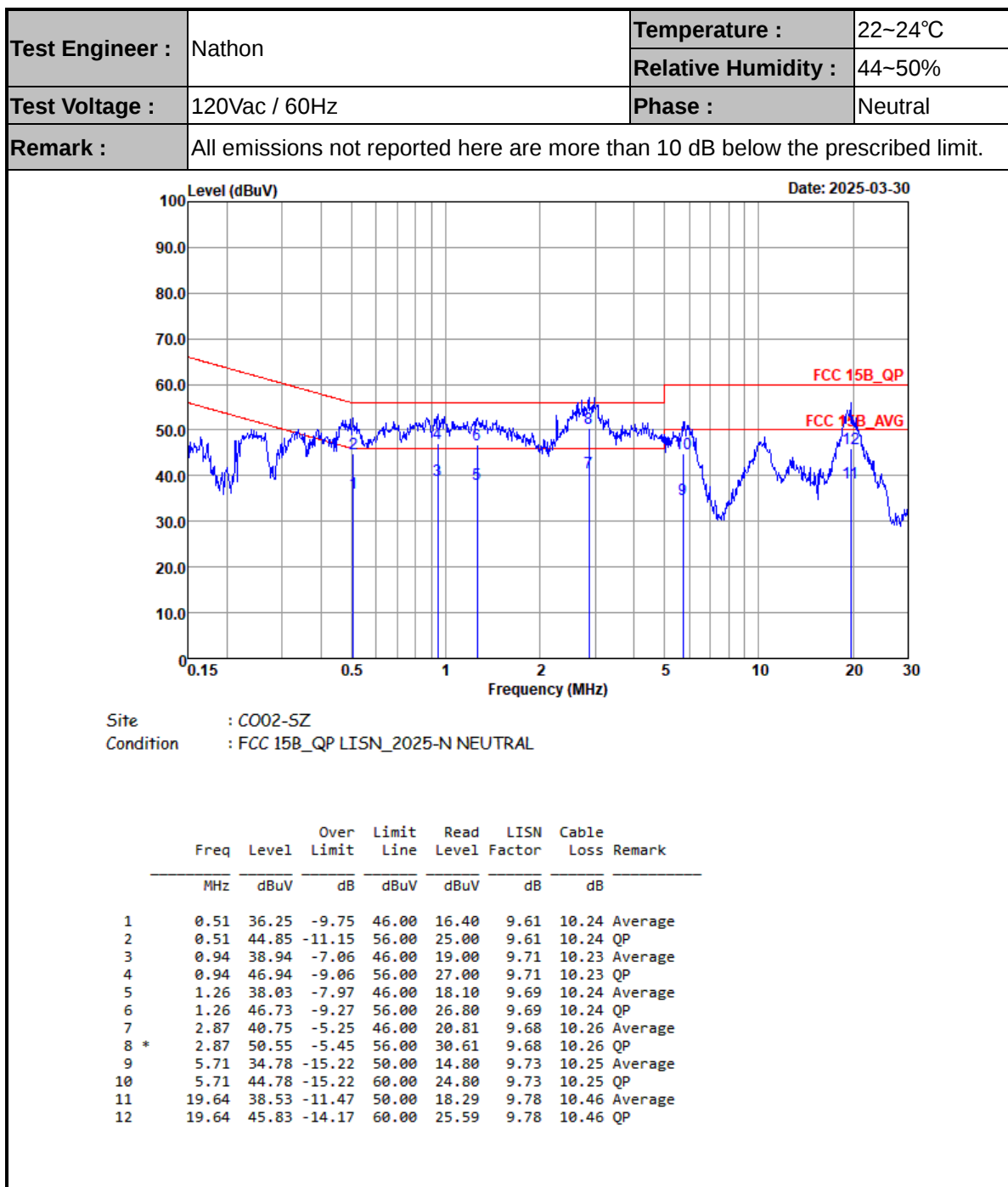
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission





Note:

1. Level(dBuV) = Read Level(dBuV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBuV) – Limit Line(dBuV)

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

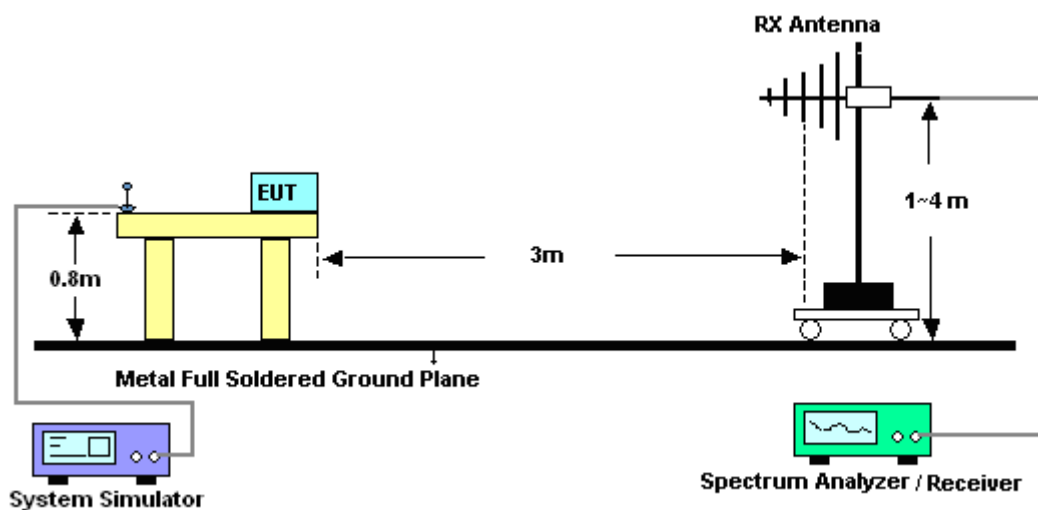
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

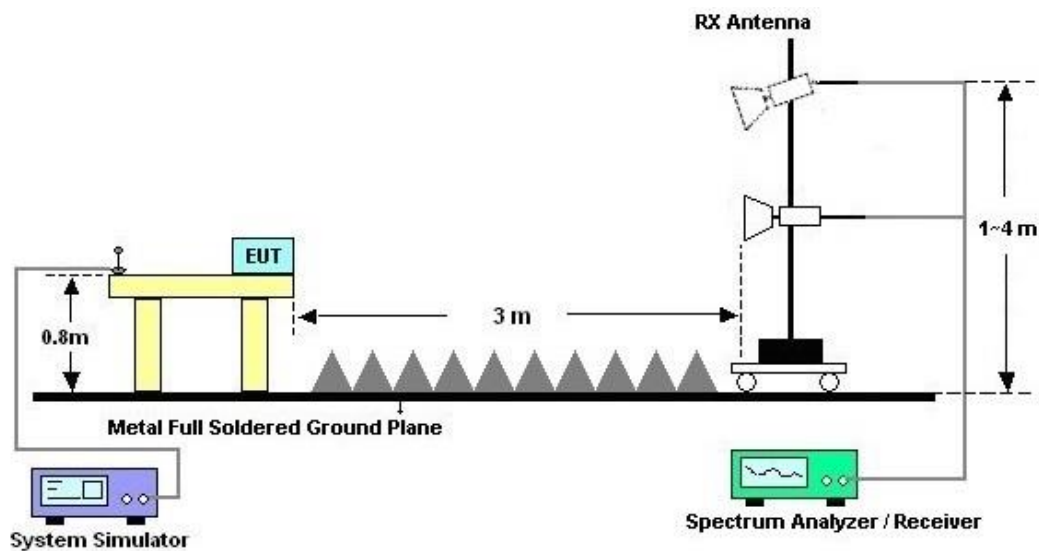
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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

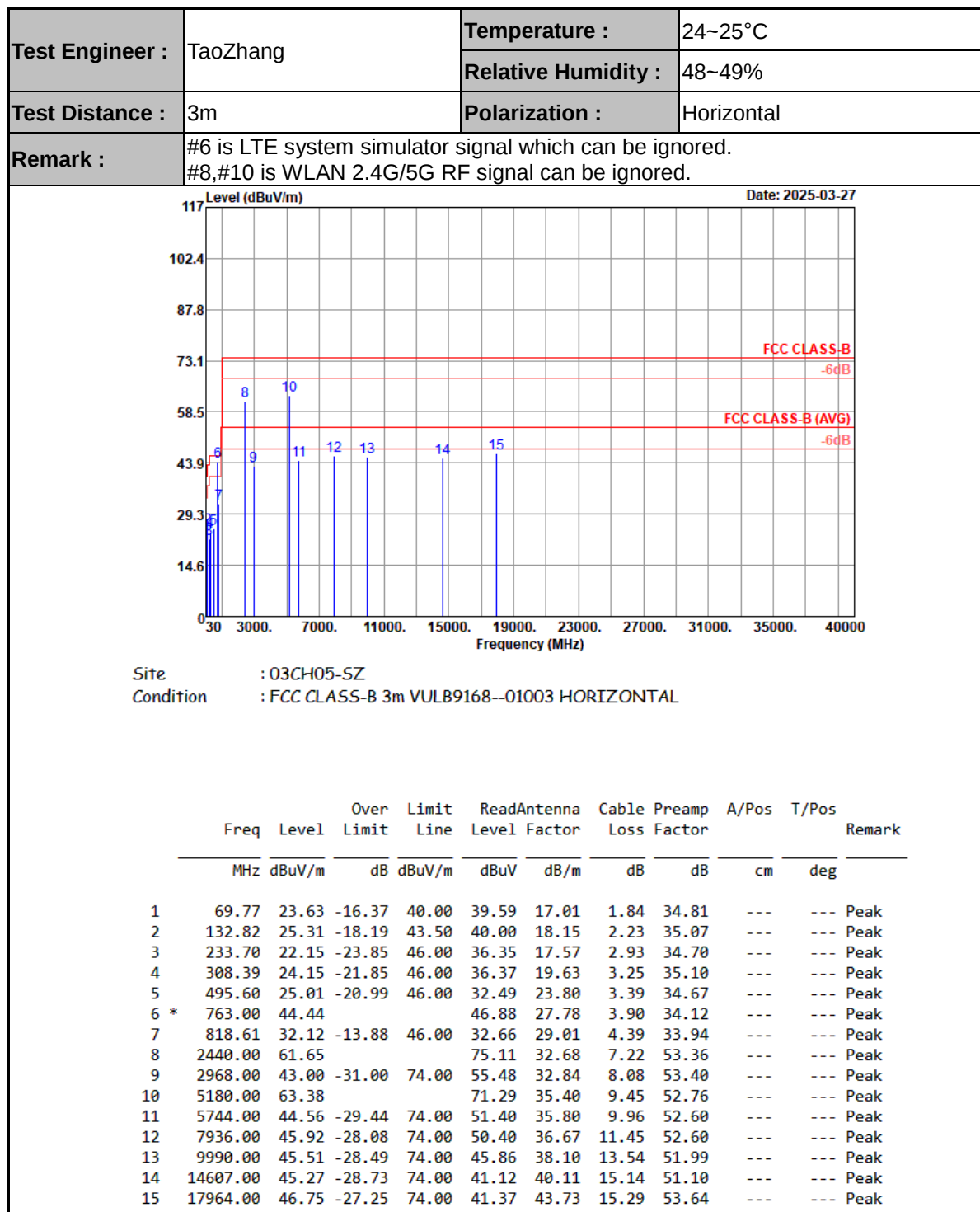


For radiated emissions above 1GHz



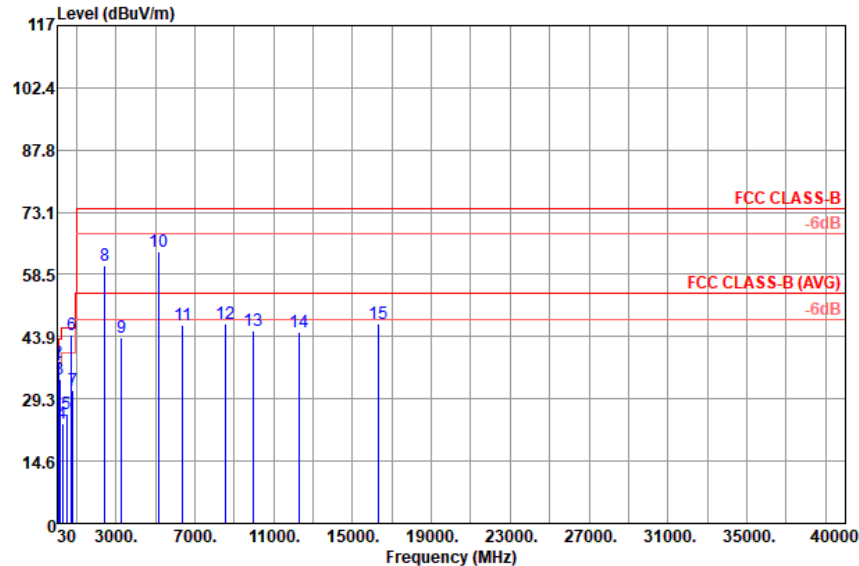


3.2.5. Test Result of Radiated Emission





Test Engineer :	TaoZhang	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is LTE system simulator signal which can be ignored. #8,#10 is WLAN 2.4G/5G RF signal can be ignored.		



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

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	51.34	37.25	-2.75	40.00	50.82	19.53	1.65	34.75	---	---	Peak
2	69.77	37.86	-2.14	40.00	53.82	17.01	1.84	34.81	---	---	Peak
3	148.34	33.77	-9.73	43.50	47.66	18.89	2.32	35.10	---	---	Peak
4	278.32	23.37	-22.63	46.00	36.36	18.77	3.12	34.88	---	---	Peak
5	517.91	25.62	-20.38	46.00	32.67	24.16	3.42	34.63	---	---	Peak
6 *	763.00	44.37			46.81	27.78	3.90	34.12	---	---	Peak
7	829.28	31.13	-14.87	46.00	31.85	28.86	4.38	33.96	---	---	Peak
8	2437.00	60.51			73.98	32.67	7.22	53.36	---	---	Peak
9	3296.00	43.53	-30.47	74.00	54.81	33.39	8.73	53.40	---	---	Peak
10	5180.00	63.98			71.89	35.40	9.45	52.76	---	---	Peak
11	6408.00	46.47	-27.53	74.00	52.38	36.38	10.37	52.66	---	---	Peak
12	8560.00	46.86	-27.14	74.00	49.87	36.78	12.23	52.02	---	---	Peak
13	9945.00	45.31	-28.69	74.00	45.77	38.10	13.38	51.94	---	---	Peak
14	12285.00	44.94	-29.06	74.00	43.69	39.08	13.83	51.66	---	---	Peak
15	16335.00	46.84	-27.16	74.00	42.35	41.50	15.46	52.47	---	---	Peak

Note:

- Level(dBuV/m) = Read Level(dBuV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBuV/m) – Limit Line(dBuV/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	102297	9kHz~7GHz;	Jul. 03, 2024	Mar. 30, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Mar. 30, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	Mar. 30, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 02, 2025	May 20, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 02, 2025	May 20, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2024	May 20, 2025	Jul. 07, 2025	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	May 20, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	May 20, 2025	Jul. 03, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060779	1GHz~18GHz	Dec. 25, 2024	May 20, 2025	Dec. 24, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 03, 2025	May 20, 2025	Apr. 02, 2026	Radiation (03CH05-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 03, 2025	May 20, 2025	Apr. 02, 2027	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 14, 2024	May 20, 2025	Oct. 13, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	May 20, 2025	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	May 20, 2025	NCR	Radiation (03CH05-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% ($U = 2U_c(y)$)	2.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.1 dB
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----- THE END -----