

EMC TEST REPORT

Applicant Samsung Electronics Co., Ltd.

FCC ID ZCASMA076M

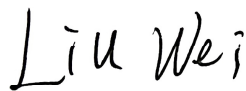
Product Multi-band GSM/WCDMA/LTE/5G NR
Mobile Phone with Bluetooth, WLAN

Model SM-A076M/DS; SM-A076M

Report No. EFTA25090192-IE-01-E1V1

Issue Date November 25, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2024)/ ANSI C63.4-2014**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.



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Table of Contents

1	Test Laboratory	5
1.1	Notes of the Test Report.....	5
1.2	Test Facility	5
1.3	Testing Location.....	5
2	General Description of Equipment Under Test	6
2.1	Applicant and Manufacturer Information	6
2.2	General Information	6
2.3	Applied Standards	9
2.4	Test Mode	10
3	Test Case Results	11
3.1	Radiated Emission.....	11
3.2	Conducted Emission.....	16
4	Uncertainty Measurement.....	19
5	Main Test Instruments	20
6	The EUT Appearance.....	21
7	Test Setup Photos	22

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	November 17, 2025
Rev.1	Update description.	November 25, 2025
Note: This revised report (Report No.: EFTA25090192-IE-01-E1V1) supersedes and replaces the previously issued report (Report No.: EFTA25090192-IE-01-E1). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of measurement results

Number	Test Case	Clause in FCC Rules	Conclusion
1	Radiated Emission	FCC Part15.109, ANSI C63.4-2014	PASS
2	Conducted Emission	FCC Part15.107, ANSI C63.4-2014	PASS
Date of Testing: October 9, 2025 ~ October 25, 2025			
Date of Sample Received: September 16, 2025			
Note:			
1. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
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2 General Description of Equipment Under Test

2.1 Applicant and Manufacturer Information

Applicant	Samsung Electronics Co., Ltd.
Applicant address	19 Chapin Rd., Building D Pine Brook, NJ 07058
Manufacturer	Samsung Electronics Co., Ltd.
Manufacturer address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

2.2 General Information

EUT Description			
Device Type	Portable Device		
Model	SM-A076M/DS; SM-A076M		
SN	R7AY80GQMV L		
HW Version	REV1.0		
SW Version	A076M.001		
Power Rating	DC 3.88V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	Internal Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824 ~ 849	869 ~ 894
	GSM 1900	1850 ~ 1910	1930 ~ 1990
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155
	WCDMA Band V	824 ~ 849	869 ~ 894
	LTE Band 2	1850 ~ 1910	1930 ~ 1990
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 7	2500 ~ 2570	2620 ~ 2690
	LTE Band 12	699 ~ 716	729 ~ 746
	LTE Band 13	777 ~ 787	746 ~ 756
	LTE Band 17	704 ~ 716	734 ~ 746
	LTE Band 26	814 ~ 849	859 ~ 894
	LTE Band 38	2570 ~ 2620	2570 ~ 2620
	LTE Band 41	2496 ~ 2690	2496 ~ 2690

	LTE Band 66	1710 ~ 1780	2110 ~ 2180
	NR Band n5	824 ~ 849	869 ~ 894
	NR Band n7	2500 ~ 2570	2620 ~ 2690
	NR Band n41	2496 ~ 2690	2496 ~ 2690
	NR Band n66	1710 ~ 1780	2110 ~ 2180
	NR Band n78	3450 ~ 3550	3450 ~ 3550
	Bluetooth	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 2.4GHz	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 5GHz (U-NII-1)	5150 ~ 5250	5150 ~ 5250
	Wi-Fi 5GHz (U-NII-2A)	5250 ~ 5350	5250 ~ 5350
	Wi-Fi 5GHz (U-NII-2C)	5470 ~ 5725	5470 ~ 5725
	Wi-Fi 5GHz (U-NII-3)	5725 ~ 5850	5725 ~ 5850
LTE UL CA Band(s)	CA_2A-4A; CA_7C; CA_38C		
EN-DC Band(s)	DC_2A-n5A; DC_7A-n5A; DC_66A-n5A DC_2A-n7A; DC_4A-n7A; DC_5A-n7A; DC_66A-n7A DC_4A-n41A; DC_12A-n41A; DC_26A-n41A; DC_66A-n41A DC_2A-n66A; DC_5A-n66A; DC_7A-n66A; DC_12A-n66A; DC_13A-n66A DC_2A-n78A; DC_4A-n78A; DC_5A-n78A; DC_7A-n78A; DC_12A-n78A; DC_26A-n78A; DC_38A-n78A; DC_41A-n78A; DC_66A-n78A		
EUT Accessory			
Adapter 1	Manufacturer: RFTECH THAI NGUYEN CO., LTD Model: EP-T2510EBE Input: 100-240V~50/60Hz 0.7A Output: (PDO) 5.0V $\overline{\text{---}}$ 3.0A or 9.0V $\overline{\text{---}}$ 2.77A (PPS) 3.3-11.0V $\overline{\text{---}}$ 2.25A (7.5-25.0 W)		
Adapter 2	Manufacturer: RFTECH THAI NGUYEN CO., LTD Model: EP-TA200(EWE) Input: 100-240V~50/60Hz 0.3A Output: 9.0V $\overline{\text{---}}$ 1.67A 15.0W or 5.0V $\overline{\text{---}}$ 2.0A 10.0W		
Adapter 3	Manufacturer: Salcomp Industrial Eletrônica da Amazônia LTDA Model: EP-TA200B Input: 100-240V~50/60Hz 0.5A Output: 9.0V $\overline{\text{---}}$ 1.67A or 5.0V $\overline{\text{---}}$ 2.0A		
Adapter 4	Manufacturer: Haem vina Co., Ltd Model: EP-T1510 Input: 100-240V~50/60Hz 0.5A Output: 9.0V $\overline{\text{---}}$ 1.67A or 5.0V $\overline{\text{---}}$ 2.0A		
Battery 1	Manufacturer: Ningde Amperex Technology Limited Model: LC-196		
Battery 2	Manufacturer: Sunwoda Electronic CO.,LTD. Model: LC-196		
USB Cable 1	Manufacturer: VietNam Broad Telecommunication Co., Ltd. Model: EP-DR140AWE		

USB Cable 2	Manufacturer: CRESYN ELLECTRONICS(DONGGUAN)CO., LTD. Model: EP-DR140AWE
USB Cable 3	Manufacturer: VietNam Broad Telecommunication Co., Ltd. Model: EP-DN980BWE
USB Cable 4	Manufacturer: CRESYN ELLECTRONICS(DONGGUAN)CO., LTD. Model: EP-DN980BWE
Auxiliary Test Equipment	
PC	Manufacturer: Microsoft Corporation Model: 1724 (SN: 032324771953)
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. There are more than one Adapter, Battery and USB Cable, each one should be applied throughout the compliance test respectively, however, only the worst case (Adapter 4 and USB Cable 2) will be recorded in this report. 3. The customer claims that between SM-A076M/DS and SM-A076M, SM-A076M/DS is dual-card and SM-A076M is single-card, and everything else is the same.	

2.3 Applied Standards

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

Test standards

FCC Code CFR47 Part15B (2024)

ANSI C63.4-2014

2.4 Test Mode

Test Mode	
Mode 1	Adapter + USB cable + EUT + Front camera On
Mode 2	Adapter + USB cable + EUT + Rear camera On
Mode 3	Adapter + USB cable + EUT + Front camera On + GSM/WCDMA/LTE/NR/BT/Wi-Fi Receiver
Mode 4	Adapter + USB cable + EUT + Rear camera On + GSM/WCDMA/LTE/NR/BT/Wi-Fi Receiver
Mode 5	Adapter + USB cable +EUT + play video (1kHz)
Mode 6	AE(PC)+USB Cable + EUT + data transfer mode (PC to EUT)
Mode 7	AE(PC)+USB Cable + EUT + data transfer mode (EUT to PC)
Mode 8	Battery powered + EUT + Front Camera On
Mode 9	Battery powered + EUT + Rear camera On
Mode 10	Battery powered + EUT + Front Camera On + GSM/WCDMA/LTE/NR/BT/Wi-Fi Receiver
Mode 11	Battery powered + EUT + Rear camera On+ GSM/WCDMA/LTE/NR/BT/Wi-Fi Receiver
Mode 12	Battery powered + EUT + play video (1kHz)

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1~12	Mode 7
Conducted Emission	Mode 1~7	Mode 7
After technical evaluation or/and preliminary test, the test data of the worst-case condition was recorded in this report.		

3 Test Case Results

3.1 Radiated Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

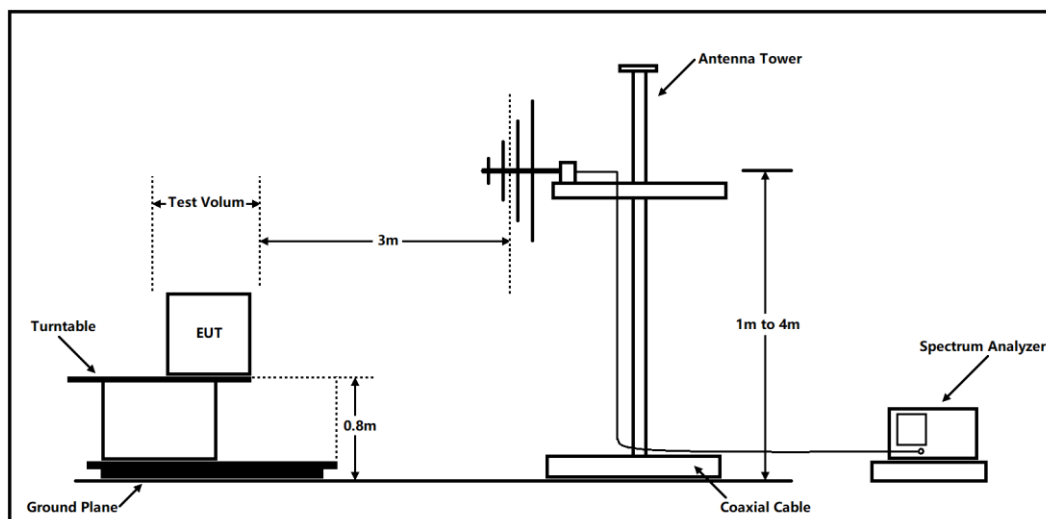
(b) AVERAGE Detector: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

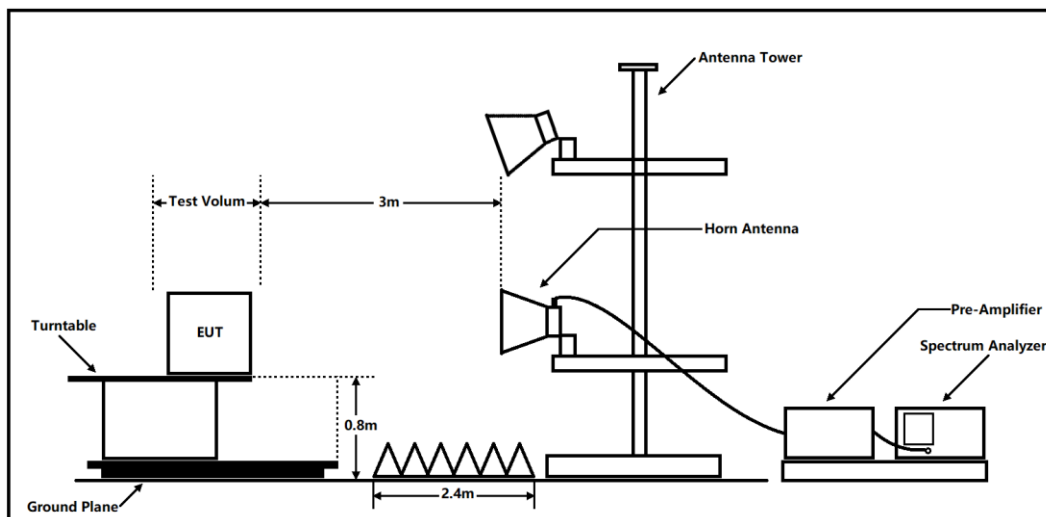
During the test, EUT is connected to a laptop via a USB cable in the case of Transfer Data mode. The EUT is used as the peripheral equipment of the PC. The data is transferred from EUT to PC; PC is connected to server via a long LAN cable.

Test Setup

Below 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

Limits

Class B

Frequency (MHz)	Field Strength (dB μ V/m)	Detector
30 -88	40.0	Quasi-peak
88-216	43.5	Quasi-peak
216 – 960	46.0	Quasi-peak
960-1000	54.0	Quasi-peak
1000-5 th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

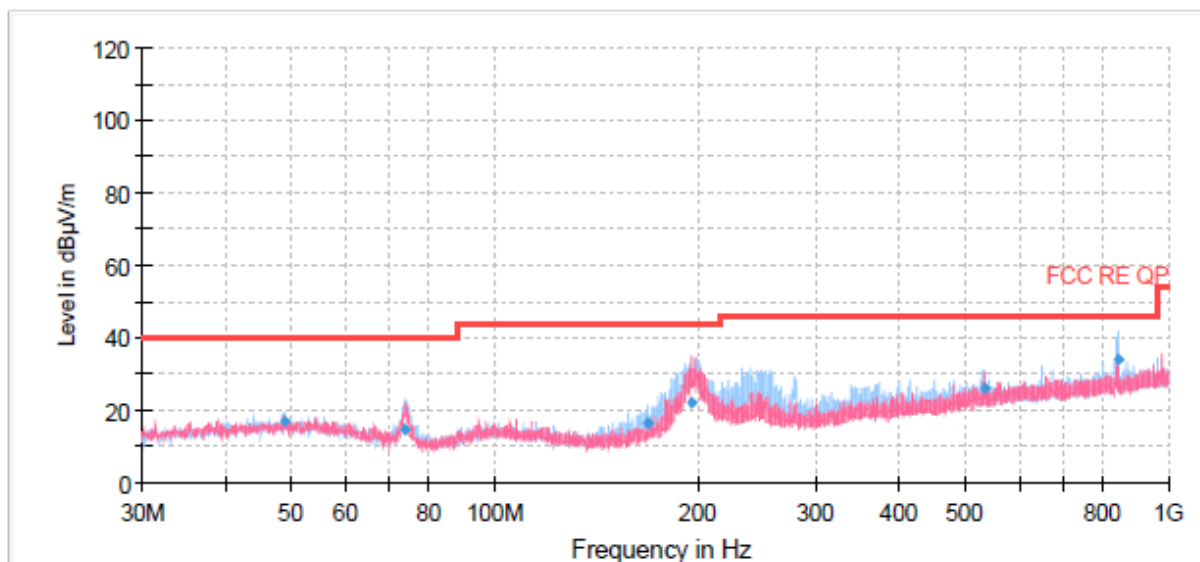
Frequency range of radiated measurements

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. The Emissions in the frequency band 18GHz – 26.5GHz is more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.



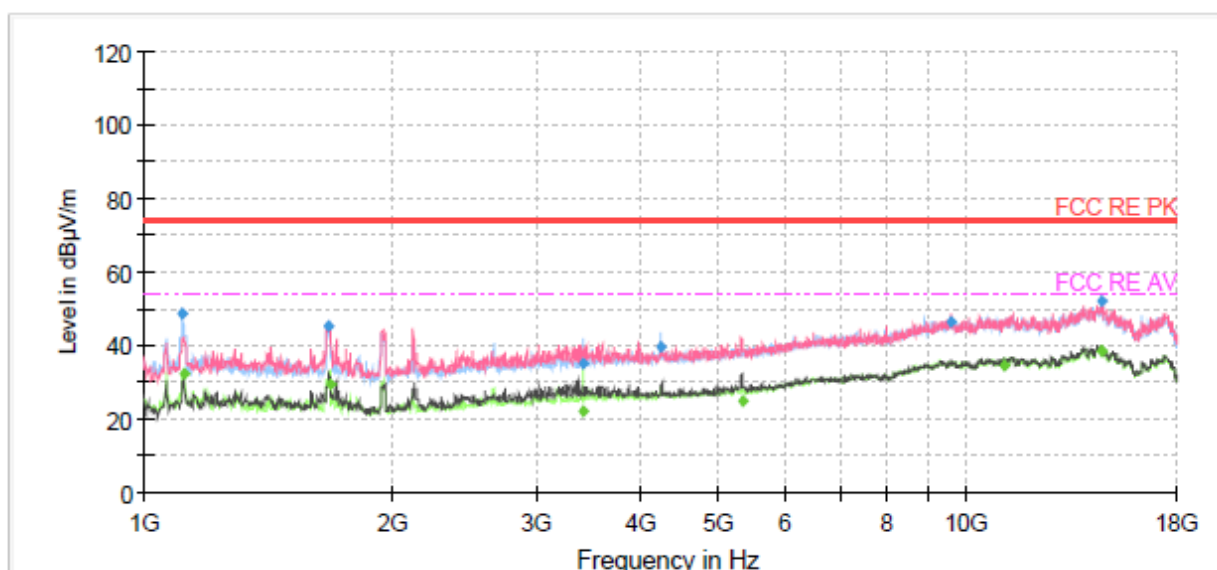
~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
48.62	16.98	40.00	23.02	125.0	H	90.00	20
73.44	14.77	40.00	25.24	210.0	H	36.00	15
168.75	16.55	43.50	26.95	175.0	H	260.00	16
195.62	22.32	43.50	21.18	109.0	V	261.00	18
532.86	26.19	46.00	19.81	175.0	H	296.00	25
840.34	34.00	46.00	12.00	100.0	H	260.00	30

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak



PK Level @Spectrum Overview H
 PK Level @Spectrum Overview V
 PK Level @Final Results
 PK Limit
 AVG Level @Spectrum Overview H
 AVG Level @Spectrum Overview V
 AVG Level @Final Results
 AVG Limit

Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1112.63	48.88	---	74.00	25.12	1000.00	125.0	H	233.00	-17
1114.75	---	32.35	54.00	21.65	1000.00	176.0	H	232.00	-17
1675.75	45.26	---	74.00	28.74	1000.00	101.0	H	282.00	-14
1680.00	---	29.35	54.00	24.65	1000.00	104.0	H	289.00	-14
3418.25	---	22.24	54.00	31.76	1000.00	179.0	H	329.00	-8
3418.25	35.35	---	74.00	38.65	1000.00	218.0	H	356.00	-8
4249.13	39.59	---	74.00	34.41	1000.00	108.0	H	0.00	-6
5330.75	---	24.66	54.00	29.34	1000.00	125.0	V	250.00	-3
9565.88	46.46	---	74.00	27.54	1000.00	104.0	V	93.00	5
11102.25	---	34.36	54.00	19.64	1000.00	125.0	V	0.00	6
14583.00	52.08	---	74.00	21.92	1000.00	225.0	H	0.00	9
14604.25	---	38.68	54.00	15.32	1000.00	100.0	V	154.00	9

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

Ambient Condition

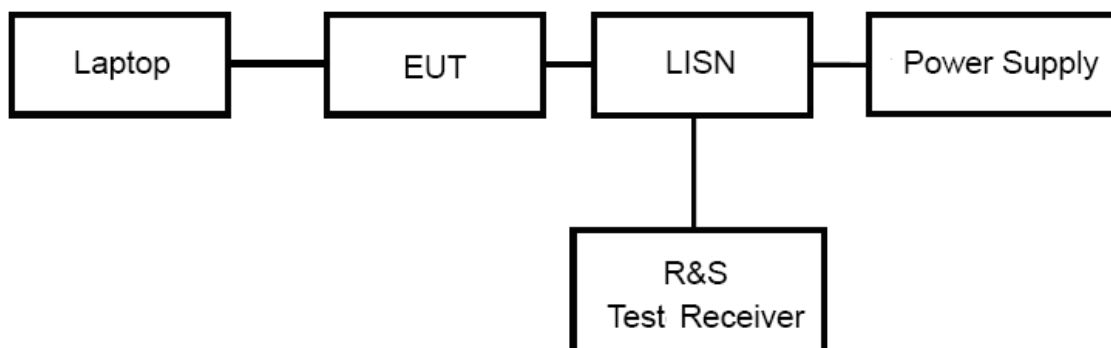
Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

During the test, EUT is connected to a laptop via a USB cable in the case of Transfer Data mode. The EUT is used as the peripheral equipment of the PC. The data is transferred from EUT to PC; PC is connected to server via a long LAN cable.

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

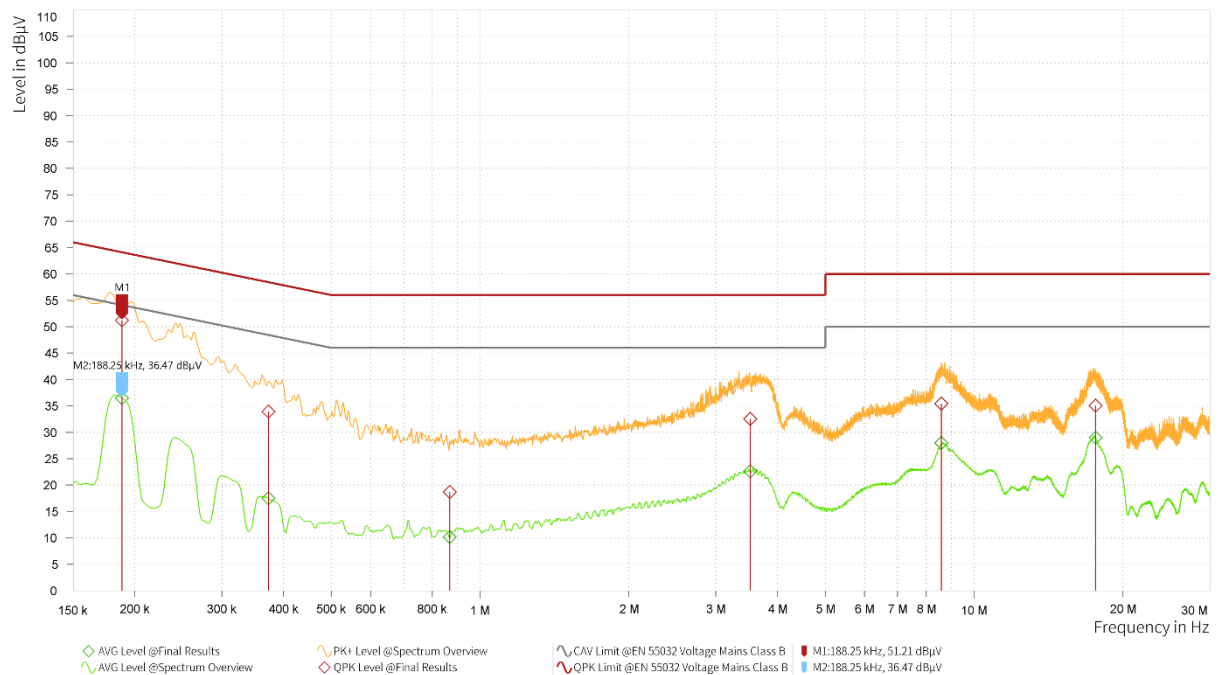
Limits

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

*: Decreases with the logarithm of the frequency.

Note: The EUT should meet CLASS B limit.

Test Results

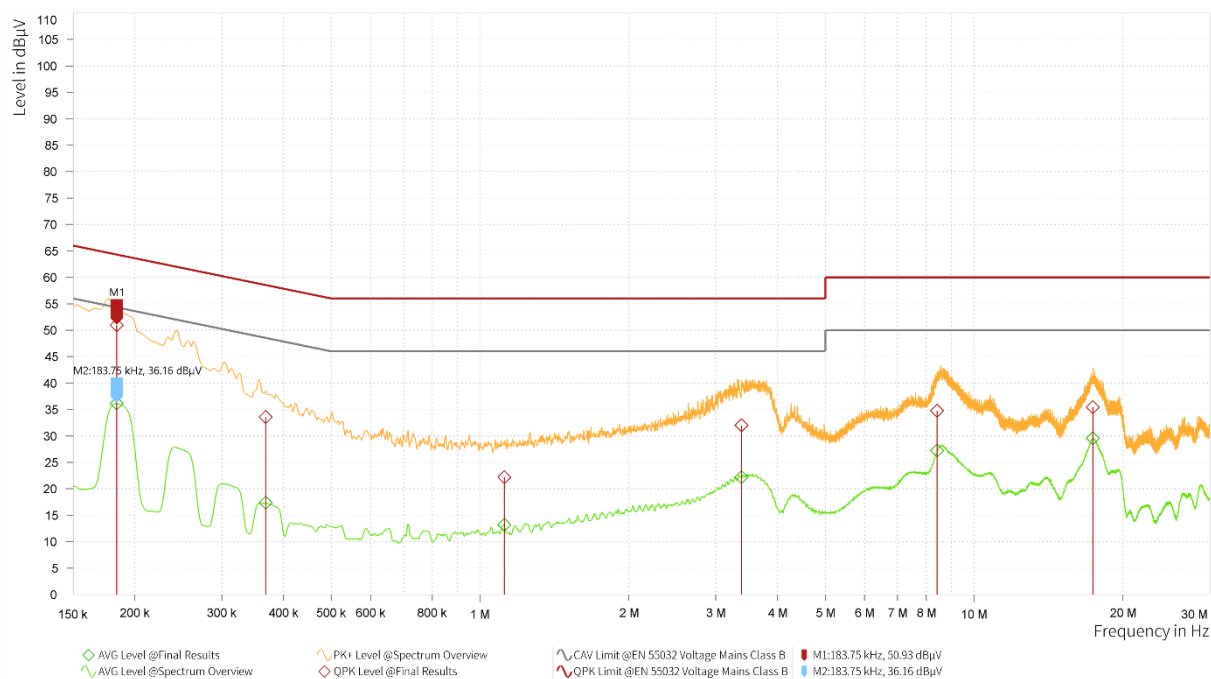


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.188	51.21	64.11	12.90	36.47	54.11	17.64	21.02	L1	9.000	1.000
0.373	33.90	58.44	24.54	17.52	48.44	30.92	20.90	L1	9.000	1.000
0.868	18.71	56.00	37.29	10.16	46.00	35.84	20.27	L1	9.000	1.000
3.523	32.54	56.00	23.46	22.62	46.00	23.38	19.45	L1	9.000	1.000
8.585	35.42	60.00	24.58	28.00	50.00	22.00	19.41	L1	9.000	1.000
17.617	35.03	60.00	24.97	28.97	50.00	21.03	19.58	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG: CAV Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.184	50.93	64.31	13.38	36.16	54.31	18.15	21.04	N	9.000	1.000
0.368	33.61	58.54	24.93	17.37	48.54	31.17	20.92	N	9.000	1.000
1.120	22.20	56.00	33.80	13.18	46.00	32.82	20.08	N	9.000	1.000
3.383	32.01	56.00	23.99	22.22	46.00	23.78	19.47	N	9.000	1.000
8.419	34.76	60.00	25.24	27.24	50.00	22.76	19.42	N	9.000	1.000
17.392	35.45	60.00	24.55	29.57	50.00	20.43	19.62	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 kHz to 30 MHz

4 Uncertainty Measurement

Case	Uncertainty	Factor k
Radiated Emission 30MHz – 200MHz	4.17 dB	1.96
Radiated Emission 200MHz – 1GHz	4.84 dB	1.96
Radiated Emission 1GHz – 18GHz	4.35 dB	1.96
Radiated Emission 18GHz – 26.5GHz	5.90 dB	1.96
Radiated Emission 26.5GHz – 40GHz	5.92 dB	1.96
Conducted Emission	2.57 dB	2

5 Main Test Instruments

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Date	Expiration Time
Radiated Emission					
EMI Test Receiver	R&S	ESR	102389	2025-05-06	2026-05-05
Signal Analyzer	R&S	FSV40	101298	2025-05-07	2026-05-06
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	R&S	HF 907	102723	2023-11-24	2026-11-23
Amplifier	R&S	SCU18	10034	2025-05-06	2026-05-05
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2023-01-17	2026-01-16
Amplifier	MicroWave	KLNA-18040050	220826001	2025-05-06	2026-05-05
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2024-12-02	2025-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	9.26.01	/	/

6 The EUT Appearance

Refer to *EUT Appearance*.

7 Test Setup Photos

Refer to *EMC Test Setup*.

***** END OF REPORT *****