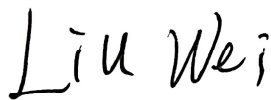


EMC TEST REPORT

Applicant Shanghai Sunmi Technology Co.,Ltd.
FCC ID 2AH25T5F2A
Product Portable Data Processing Terminal
Brand SUNMI
Model T5F2A
Report No. EFTA25070074-IE-09-E1V2
Issue Date March 5, 2026

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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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	February 3, 2026
Rev.1	Update description.	February 26, 2026
Rev.2	Update information.	March 5, 2026
Note: This revised report (Report No.: EFTA25070074-IE-09-E1V2) supersedes and replaces the previously issued report (Report No.: EFTA25070074-IE-09-E1V1). 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: December 12, 2025 ~ December 24, 2025			
Date of Sample Received: November 20, 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.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
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E-mail: Kain.Xu@cpt.eurofinscn.com

2 General Description of Equipment Under Test

2.1 Applicant and Manufacturer Information

Applicant	Shanghai Sunmi Technology Co.,Ltd.
Applicant address	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer	Shanghai Sunmi Technology Co.,Ltd.
Manufacturer address	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China

2.2 General Information

EUT Description			
Device Type	Portable Device		
Model	T5F2A		
Lab internal SN	250728-19-019		
HW Version	SM08_MB_V1.1		
SW Version	4.0.0		
Power Rating	DC 7.74V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Frequency	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 25	1850 ~ 1915	1930 ~ 1995
	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

	LTE Band 71	663 ~ 698	617 ~ 652
	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
	Wi-Fi 6GHz (U-NII-5)	5925 ~ 6425	5925 ~ 6425
	Wi-Fi 6GHz (U-NII-6)	6425 ~ 6525	6425 ~ 6525
	Wi-Fi 6GHz (U-NII-7)	6525 ~ 6875	6525 ~ 6875
	Wi-Fi 6GHz (U-NII-8)	6875 ~ 7125	6875 ~ 7125
EUT Accessory			
Adapter 1	Manufacturer: Shenzhen Tianyin Electronics Co.,Ltd Model: TD-661G120167UF01 Input: 100-240V, 500mA Output: 9.0V  2.0A		
Adapter 2	Manufacturer: Jiangsu Chenyang Electron Co., Ltd. Model: UC13US Input: 100-240V, 300mA Output: 5.0V  2.0A		
Battery	Manufacturer: Guangdong Highpower New Energy Technology Co., Ltd. Model: HPPE DC 7.74V, 3724mAh		
USB Cable 1	Manufacturer: Saibao (Jiangxi) Industry Co., LTD Model: SSM-A033A 1500cm Cable		
USB Cable 2	Manufacturer: Saibao (Jiangxi) Industry Co., LTD Model: SSM-A063A 1500cm Cable		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.			

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 + play (1kHz)
Mode 4	Adapter + USB cable +EUT + Bluetooth / WLAN receiver
Mode 5	USB Copy (EUT with PC) + USB cable
Mode 6	USB Copy (PC with EUT) + USB cable
Mode 7	Battery powered + EUT + Front camera On
Mode 8	Battery powered + EUT + Rear camera On
Mode 9	Battery powered + EUT + play (1kHz)
Mode 10	Battery powered + EUT + Bluetooth / WLAN receiver

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1-10	Mode 1 with Adapter 1
Conducted Emission	Mode 1-6	Mode 5 with Adapter 1
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:

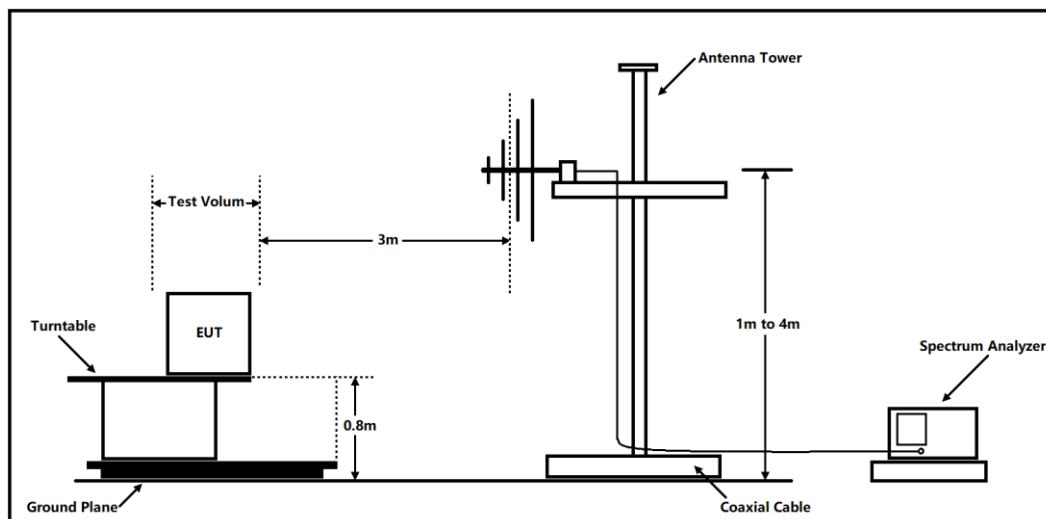
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

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

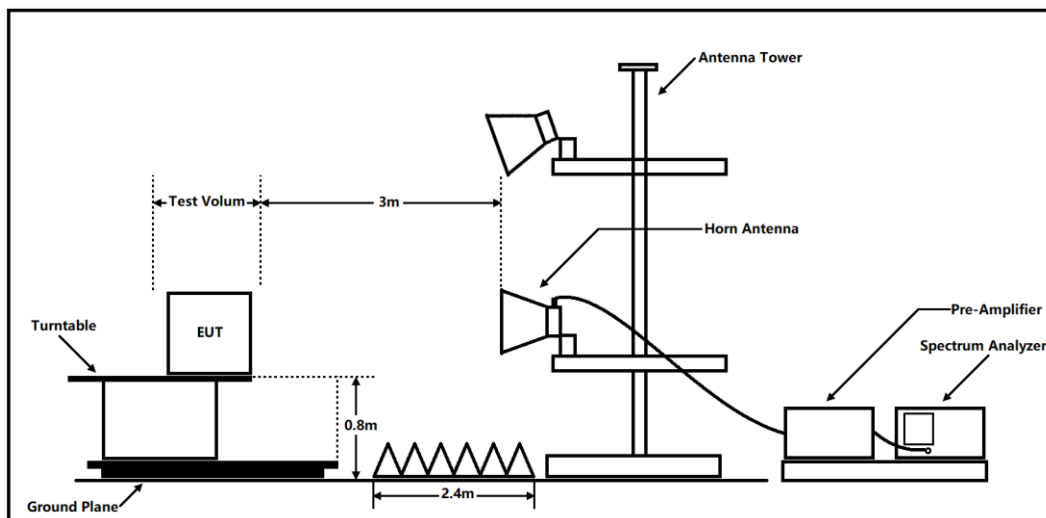
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

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.

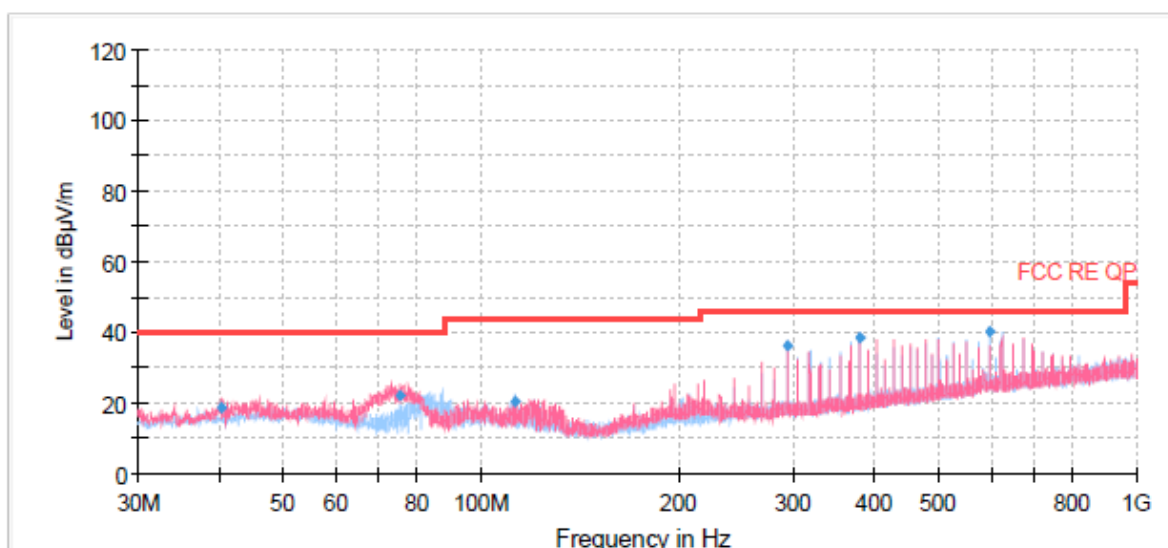
Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. The Emissions in the frequency band 18GHz – 40GHz is more than 20dB below the limit are not reported.

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

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

A symbol (dB μ V/) in the test plot below means (dB μ V/m)

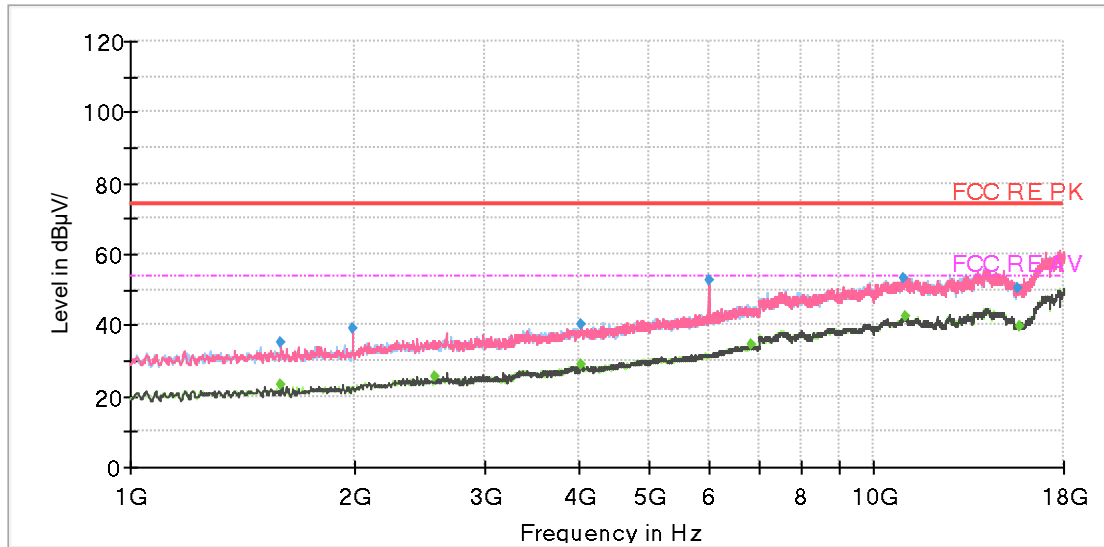


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
40.14	18.50	40.00	21.50	100.0	V	70.00	19
75.11	22.23	40.00	17.77	100.0	V	167.00	15
112.30	20.36	43.50	23.14	200.0	H	236.00	18
292.87	36.25	46.00	9.75	100.0	V	306.00	21
378.38	38.73	46.00	7.27	100.0	H	101.00	23
597.64	40.30	46.00	5.70	200.0	H	306.00	27

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

2. Margin = Limit – Quasi-Peak



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)
1592.88	34.89	---	74.00	39.11	500.00	100.0	V	316.00	-15
1597.13	---	23.21	54.00	30.79	500.00	200.0	H	192.00	-16
1992.38	39.24	---	74.00	34.76	500.00	200.0	V	24.00	-15
2561.88	---	25.33	54.00	28.67	500.00	200.0	H	359.00	-11
4032.38	40.14	---	74.00	33.86	500.00	200.0	V	9.00	-7
4034.50	---	28.71	54.00	25.29	500.00	100.0	V	316.00	-7
6000.13	52.39	---	74.00	21.61	500.00	200.0	H	219.00	-4
6824.63	---	34.32	54.00	19.68	500.00	200.0	H	219.00	-1
10966.25	53.22	---	74.00	20.78	500.00	200.0	H	328.00	6
10998.13	---	42.65	54.00	11.35	500.00	100.0	V	358.00	6
15596.63	50.10	---	74.00	23.90	500.00	100.0	H	128.00	6
15717.75	---	39.87	54.00	14.13	500.00	100.0	H	210.00	6

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

2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

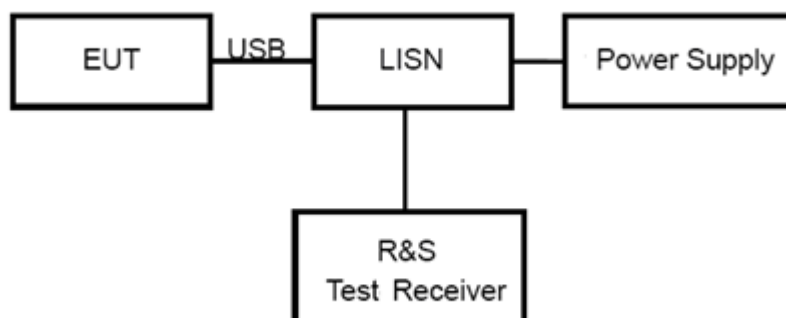
Ambient Condition

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.

Test Setup



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

Limits

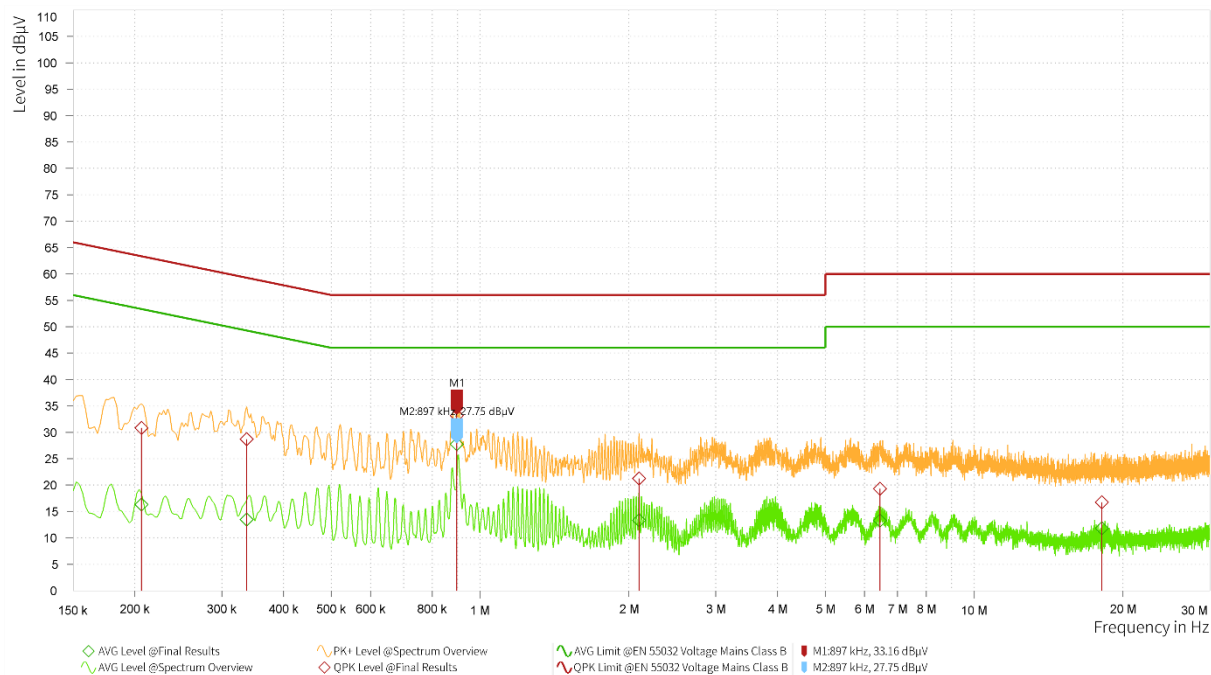
Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

*: Decreases with the logarithm of the frequency.

Note: The EUT should meet CLASS B limit.

Test Results

Following plots, Blue trace uses the peak detection; Green trace uses the average detection.

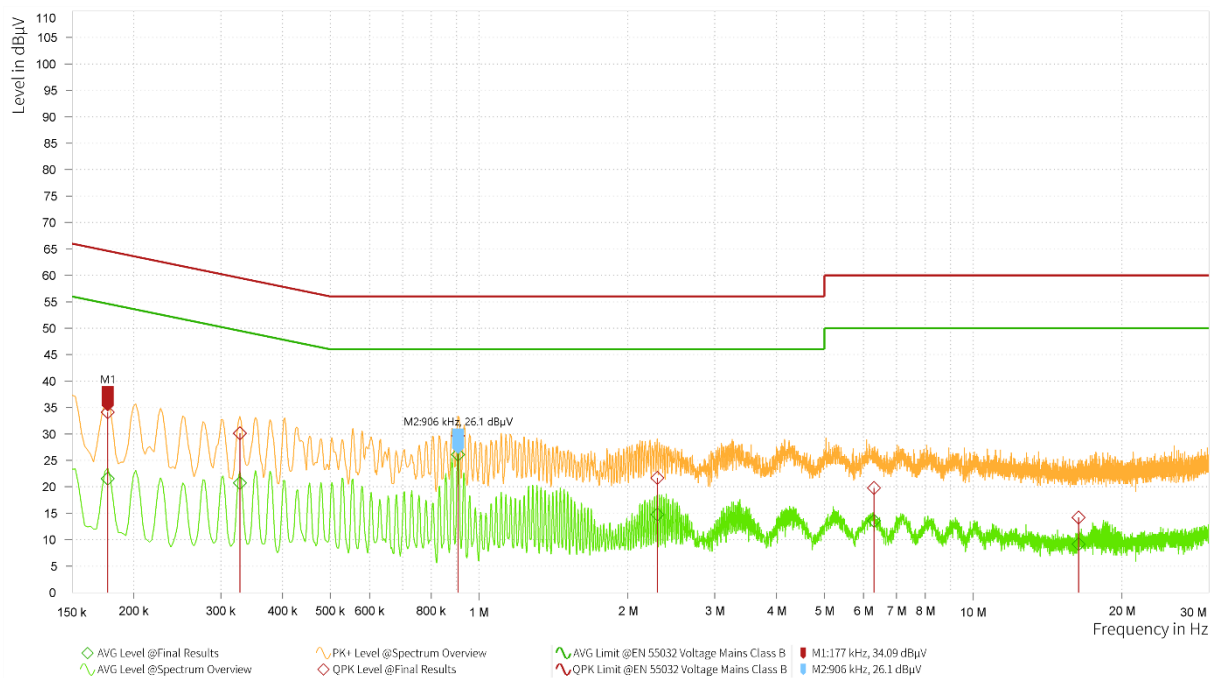


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.206	30.83	63.35	32.53	16.30	53.35	37.06	21.01	L1	9.000	1.000
0.337	28.70	59.28	30.58	13.47	49.28	35.82	20.93	L1	9.000	1.000
0.897	33.16	56.00	22.84	27.75	46.00	18.25	20.24	L1	9.000	1.000
2.099	21.23	56.00	34.77	13.35	46.00	32.65	19.62	L1	9.000	1.000
6.446	19.29	60.00	40.71	13.28	50.00	36.72	19.40	L1	9.000	1.000
18.137	16.73	60.00	43.27	11.80	50.00	38.20	19.60	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 Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.177	34.09	64.63	30.53	21.54	54.63	33.08	21.04	N	9.000	1.000
0.328	30.13	59.51	29.37	20.73	49.51	28.78	20.95	N	9.000	1.000
0.906	29.63	56.00	26.37	26.10	46.00	19.90	20.25	N	9.000	1.000
2.294	21.69	56.00	34.31	14.74	46.00	31.26	19.59	N	9.000	1.000
6.297	19.77	60.00	40.23	13.57	50.00	36.43	19.41	N	9.000	1.000
16.343	14.18	60.00	45.82	9.16	50.00	40.84	19.58	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
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
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

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