

EMC TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3WA0516
Product Charging Station
Brand WORX; KRESS
Model WA0518; KA0082; KA0080
Report No. EFTA25080280-IE-05-E1
Issue Date December 24, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2025)/ 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	4
1.1	Notes of the Test Report.....	4
1.2	Test Facility	4
1.3	Testing Location.....	4
2	General Description of Equipment Under Test	5
2.1	Applicant and Manufacturer Information	5
2.2	General Information	5
2.3	Applied Standards	7
2.4	Test Mode	8
3	Test Case Results	9
3.1	Radiated Emission	9
3.2	Conducted Emission	14
4	Uncertainty Measurement.....	17
5	Main Test Instruments	18
6	The EUT Appearance.....	19
7	Test Setup Photos	20

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: June 24, 2025 ~ July 26, 2025 Date of Sample Received: June 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	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China

2.2 General Information

EUT Description			
Device Type	Movable Device		
Model	WA0518; KA0082; KA0080		
Lab internal SN	250616-35-006		
HW Version	PMR101.9-V10.8		
SW Version	1.4.0		
Power Rating	DC 20.5V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	Internal Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	NearLink SLE	2400 ~ 2483.5	2400 ~ 2483.5
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 2.4GHz	2400 ~ 2483.5	2400 ~ 2483.5
EUT Accessory			
Adapter 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3805 Input: 120V, 190W Output: 28V, 5A		
Adapter 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3752 Input: 120V, 90W Output: 20V, 3A		
Auxiliary Test Equipment			
Robotic Lawnmower	Manufacturer: Positec Technology (China) Co., Ltd. Model: KR260E		

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 is more than one Adapters, each one should be applied throughout the compliance test respectively, and however, only the worst case (Adapter 2) will be recorded in this report.

The differences are as below:

Description	FCC ID	IC	Band	Chassis Part
WA0518	2ASC3WA0516	24992-WA0516	WORX	The thickness of the base is 19.30mm
KA0082	2ASC3WA0516	24992-WA0516	KRESS	The thickness of the base is 42.84mm
KA0080	2ASC3WA0516	24992-WA0516	KRESS	The thickness of the base is 19.30mm
This report only tests WA0518.				

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 (2025)

ANSI C63.4-2014

2.4 Test Mode

Test Mode	
Mode 1	ADAPTER + EUT + Robotic lawn mower + CHARGING

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1	Mode 1
Conducted Emission	Mode 1	Mode 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 was placed on the ground plane which has a 15cm non-conductive covering to insulate the EUT from the ground plane. The distance between EUT and receive antenna should be 10 meters below 1GHz; 3 meters for above 1GHz. 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:

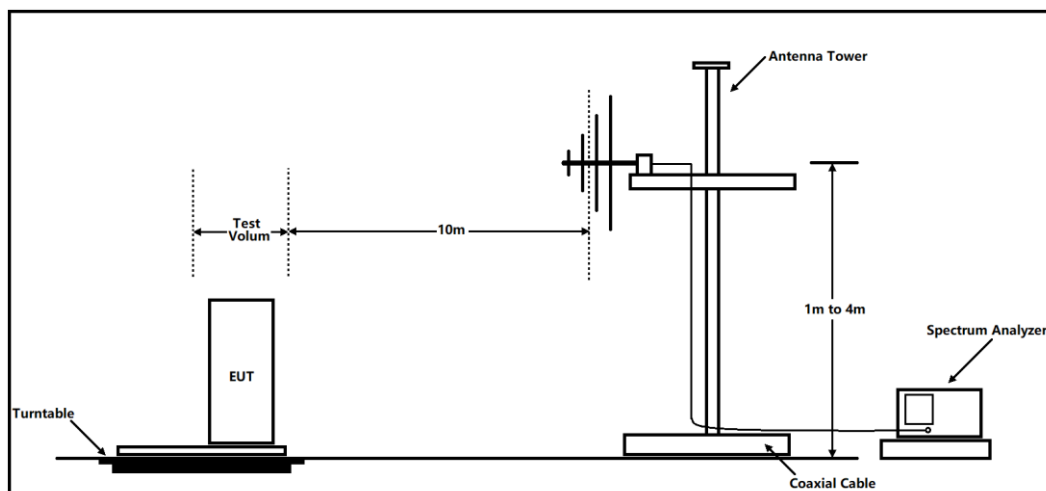
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

(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.

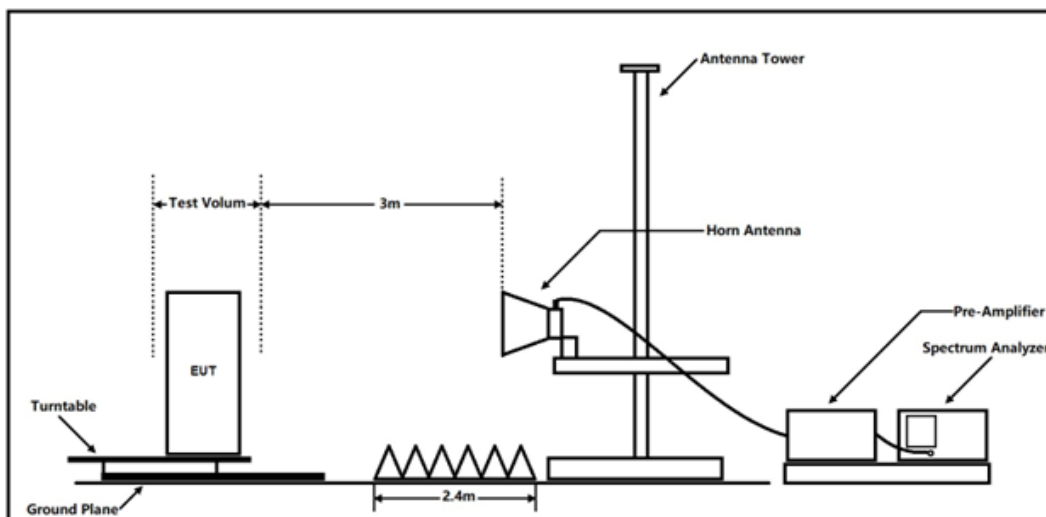
Test Setup

Below 1GHz



Note: Area side: 21m x 12m

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	30.0	Quasi-peak
88-216	33.5	Quasi-peak
216 – 960	36.0	Quasi-peak
960-1000	44.0	Quasi-peak
1000-5 th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

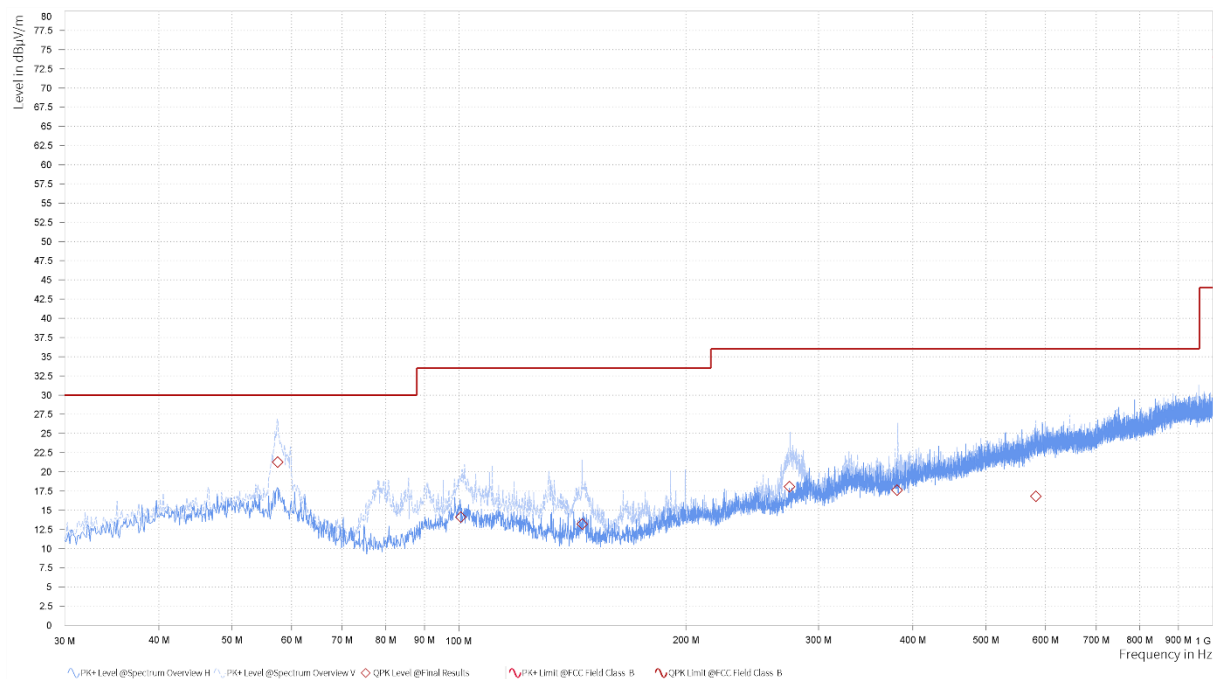
Frequency range of radiated measurements

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

Spectrum Overview H/V

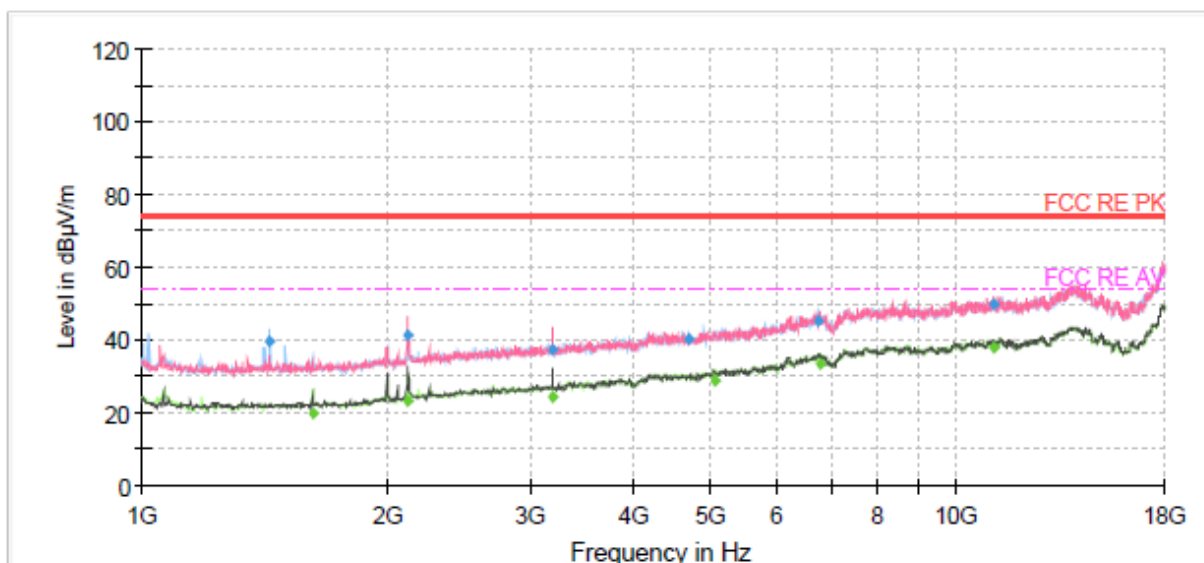


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Polarization	Azimuth (deg)	Correct Factor (dB)
57.487	21.25	30.00	8.75	2.00	V	323.2	-9.23
100.573	14.07	33.50	19.43	2.00	V	35.4	-9.63
145.805	13.19	33.50	20.31	1.00	V	283.7	-13.16
274.518	18.05	36.00	17.95	1.00	V	271.7	-7.99
381.218	17.62	36.00	18.38	1.00	V	259.6	-5.33
582.653	16.82	36.00	19.18	1.00	V	223.8	-1.23

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

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)
1435.63	39.55	---	74.00	34.45	1000.00	109.0	H	41.00	-13
1618.38	---	19.73	54.00	34.27	1000.00	100.0	H	257.00	-12
2122.00	---	23.45	54.00	30.55	1000.00	100.0	V	355.00	-9
2122.00	41.14	---	74.00	32.86	1000.00	106.0	V	349.00	-9
3184.50	37.56	---	74.00	36.44	1000.00	102.0	V	239.00	-6
3184.50	---	24.41	54.00	29.59	1000.00	100.0	V	235.00	-6
4699.63	40.23	---	74.00	33.77	1000.00	109.0	H	70.00	-2
5033.25	---	28.96	54.00	25.04	1000.00	100.0	H	19.00	0
6735.38	45.29	---	74.00	28.71	1000.00	100.0	H	64.00	4
6811.88	---	33.25	54.00	20.75	1000.00	210.0	V	276.00	4
11066.13	49.89	---	74.00	24.11	1000.00	102.0	V	170.00	9
11087.38	---	37.65	54.00	16.35	1000.00	210.0	V	77.00	9

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

2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

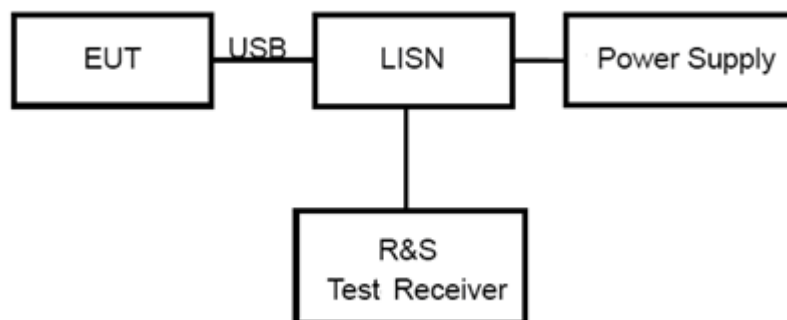
Ambient Condition

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

Methods of Measurement

The EUT was placed on the ground plane which has a 15cm non-conductive covering to insulate the EUT from the 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

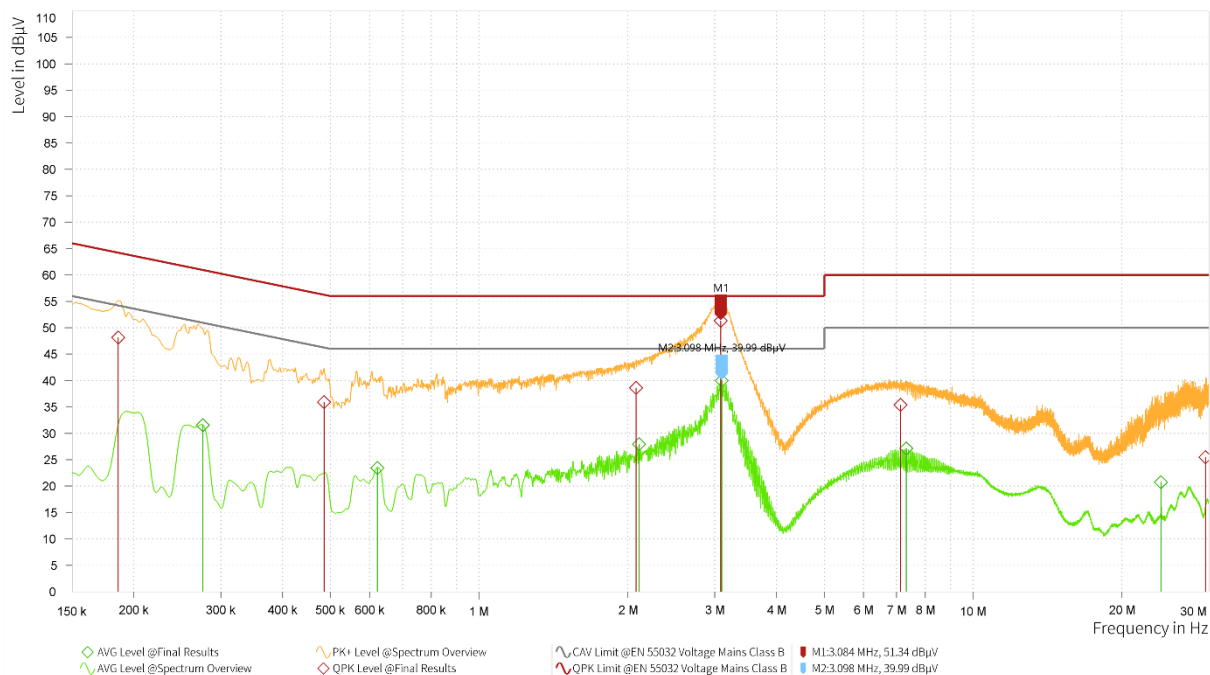
Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

*: Decreases with the logarithm of the frequency.

Note: The EUT should meet CLASS B limit.

Test Results

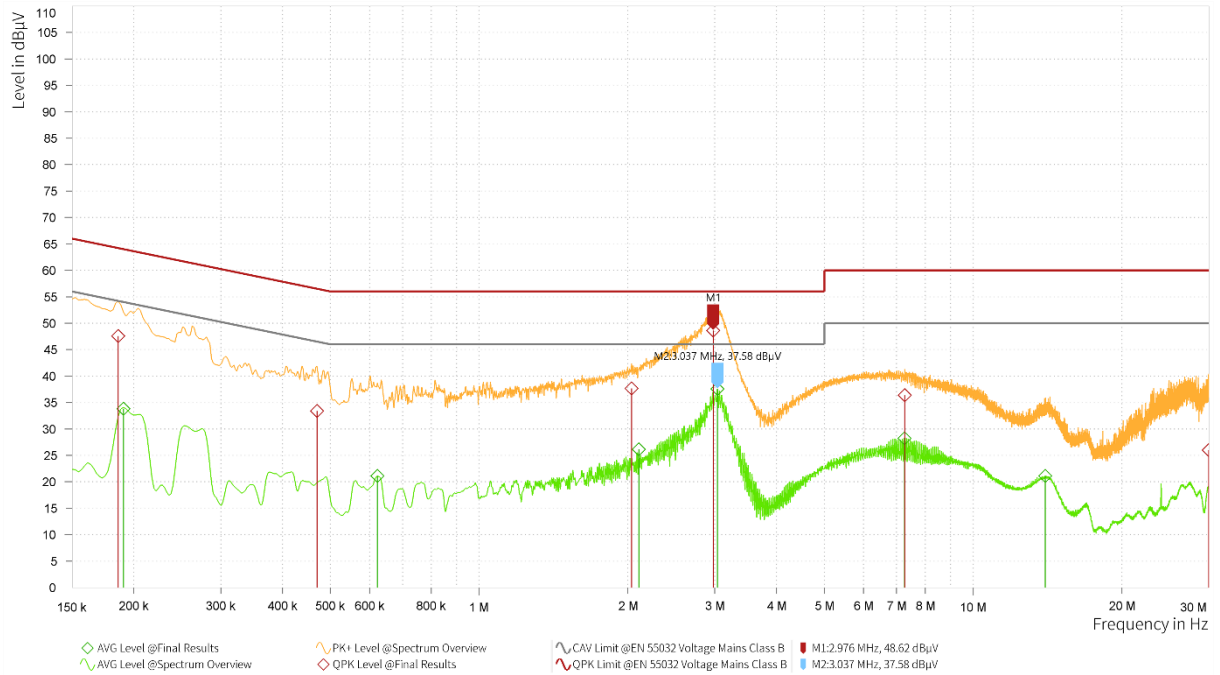
Following plots, Blue trace uses the peak detection; Green trace uses the average detection.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.186	48.14	64.21	16.08	--	--	--	21.02	L1	9.000	1.000
0.276	--	--	--	31.52	50.94	19.41	20.96	L1	9.000	1.000
0.485	35.93	56.25	20.32	--	--	--	20.79	L1	9.000	1.000
0.623	--	--	--	23.44	46.00	22.56	20.65	L1	9.000	1.000
2.078	38.60	56.00	17.40	--	--	--	19.63	L1	9.000	1.000
2.108	--	--	--	27.95	46.00	18.05	19.62	L1	9.000	1.000
3.084	51.34	56.00	4.66	--	--	--	19.48	L1	9.000	1.000
3.098	--	--	--	39.99	46.00	6.01	19.48	L1	9.000	1.000
7.132	35.37	60.00	24.63	--	--	--	19.41	L1	9.000	1.000
7.328	--	--	--	27.13	50.00	22.87	19.41	L1	9.000	1.000
23.998	--	--	--	20.75	50.00	29.25	19.78	L1	9.000	1.000
29.555	25.46	60.00	34.54	--	--	--	19.80	L1	9.000	1.000

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]
0.186	47.57	64.21	16.65	--	--	--	21.03	N	9.000	1.000
0.191	--	--	--	33.81	54.01	20.21	21.03	N	9.000	1.000
0.470	33.39	56.52	23.13	--	--	--	20.82	N	9.000	1.000
0.623	--	--	--	21.13	46.00	24.87	20.66	N	9.000	1.000
2.036	37.66	56.00	18.34	--	--	--	19.65	N	9.000	1.000
2.105	--	--	--	26.13	46.00	19.87	19.63	N	9.000	1.000
2.976	48.62	56.00	7.38	--	--	--	19.50	N	9.000	1.000
3.037	--	--	--	37.58	46.00	8.42	19.49	N	9.000	1.000
7.260	--	--	--	28.21	50.00	21.79	19.41	N	9.000	1.000
7.276	36.38	60.00	23.62	--	--	--	19.41	N	9.000	1.000
13.994	--	--	--	21.12	50.00	28.88	19.50	N	9.000	1.000
29.994	26.00	60.00	34.00	--	--	--	19.88	N	9.000	1.000

N line
Conducted Emission from 150 kHz to 30 MHz

4 Uncertainty Measurement

Case	Uncertainty	Factor k
Radiated Emission 30MHz – 200MHz	3.39 dB	1.96
Radiated Emission 200MHz – 1GHz	3.82 dB	1.96
Radiated Emission 1GHz – 18GHz	6.51 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	ESCI3	100948	2025-05-07	2026-05-06
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Signal Analyzer	R&S	FSV40	101298	2025-05-07	2026-05-06
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
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	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
Software	R&S	EMC32	10.35.10	/	/

6 The EUT Appearance

Refer to *EUT Appearance*.

7 Test Setup Photos

Refer to *EMC Test Setup*.

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