

EMC TEST REPORT

Applicant Positec Technology (China) Co., Ltd.

FCC ID 2ASC3RBT202502

Product Robotic Lawnmower

Brand WORX

Model WR344; WR346

Report No. EFTA25100027-IE-04-E5V1

Issue Date January 4, 2026

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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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	December 27, 2025
Rev.1	Updated information.	January 4, 2026
Note: This revised report (Report No.: EFTA25100027-IE-04-E5V1) supersedes and replaces the previously issued report (Report No.: EFTA25100027-IE-04-E5). 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: November 18, 2025 ~ November 26, 2025			
Date of Sample Received: October 10, 2025			
Note:			
1. The conformity assessment in this report is based on a direct comparison of the test results with the limits by Eurofins TA Technology (Shanghai) Co., Ltd., without considering measurement uncertainty.			

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
Post code: 201201
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Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

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	WR344; WR346		
Lab internal SN	WR344: 251011-17-014 WR346: 251011-17-017		
HW Version	PLS103.2.10		
SW Version	3.44B54		
Power Rating	DC 18.5V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	Internal Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 2.4GHz	2400 ~ 2483.5	2400 ~ 2483.5
	NearLink SLE	2400 ~ 2483.5	2400 ~ 2483.5
EUT Accessory			
Adapter 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3805 Input: 120V, 90W Output: 28V, 5A		
Adapter 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3797 Input: 120V, 230W Output: 28V, 7A		
Battery 1	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3675		

	DC 20V, 5Ah
Battery 2	Manufacturer: Positec Technology (China) Co., Ltd. Model: WA3678 DC 20V, 8Ah
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

Model	Battery	Adapter
WR344	WA3675	WA3805
WR346	WA3678	WA3797

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 +Charging
Mode 2	Battery Powered + EUT +Working

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1, 2	Mode 2
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 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:

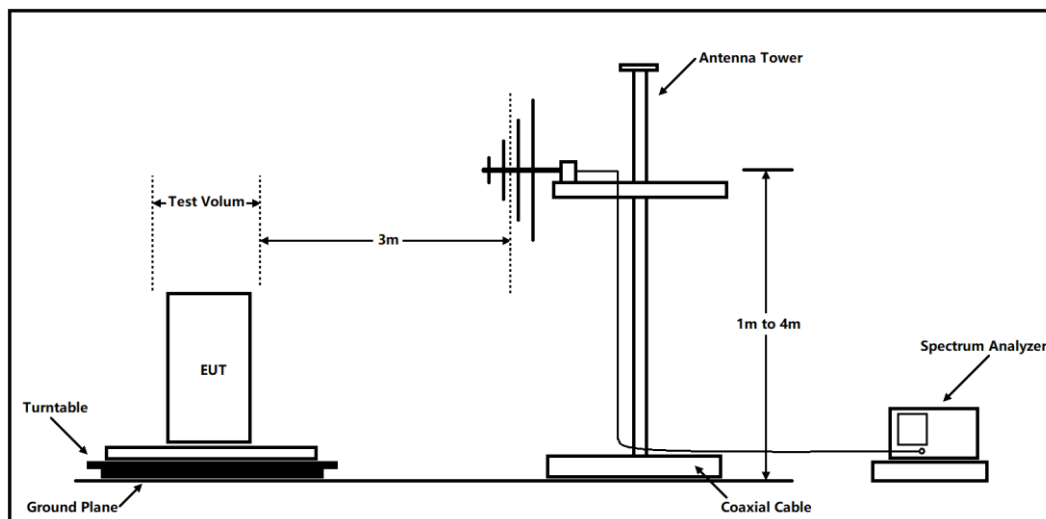
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

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

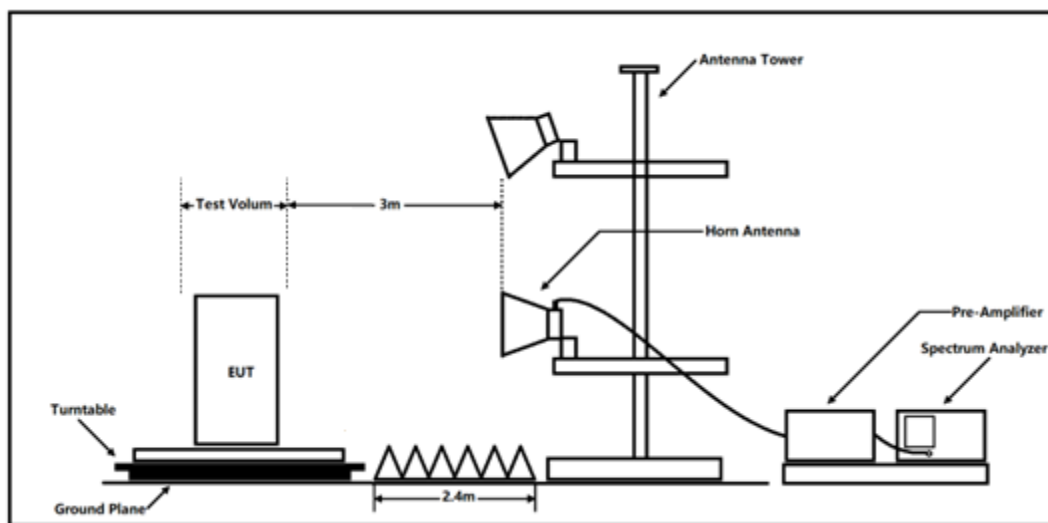
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

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

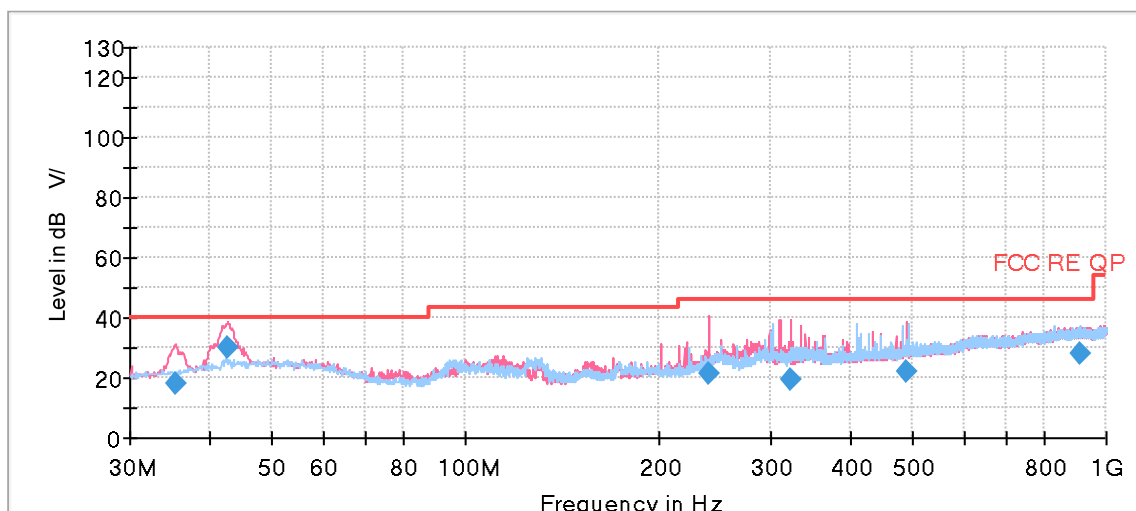
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. =

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

WR344



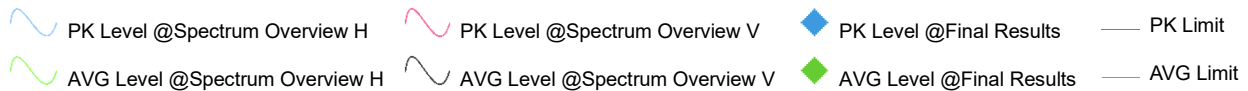
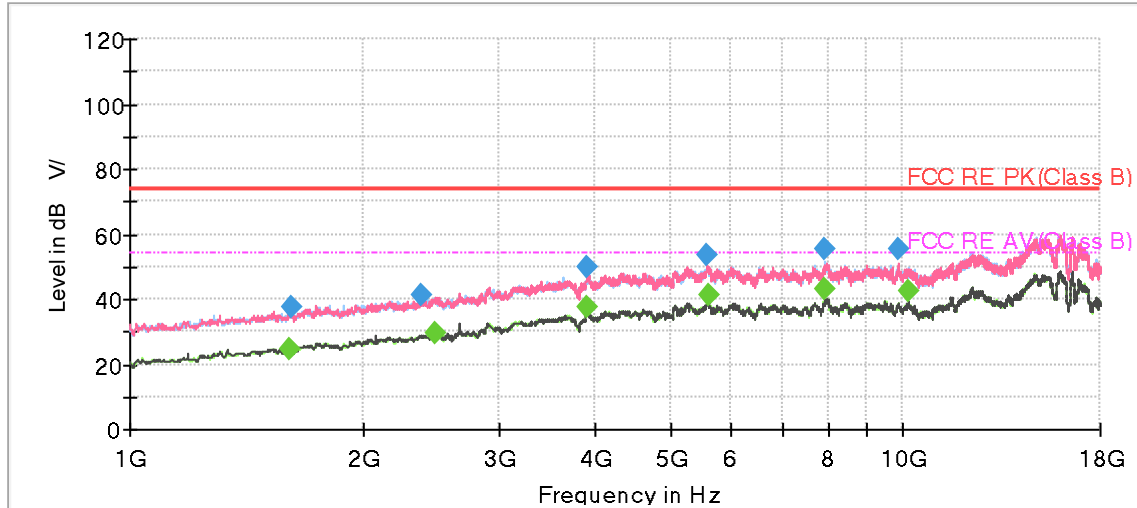
QP Level @Spectrum Overview H
 QP Level @Spectrum Overview V
 QP Level @Final Results
 QP Limit

Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
35.335000	18.11	40.00	21.89	112.0	V	94.0	18.4
42.610000	29.78	40.00	10.22	105.0	V	94.0	19.9
240.247500	21.53	46.00	24.47	107.0	V	72.0	20.1
322.818750	19.15	46.00	26.85	122.0	V	259.0	21.6
488.810000	21.69	46.00	24.31	107.0	V	322.0	25.1
911.730000	28.27	46.00	17.73	100.0	H	25.0	31.0

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

2. Margin = Limit – Quasi-Peak



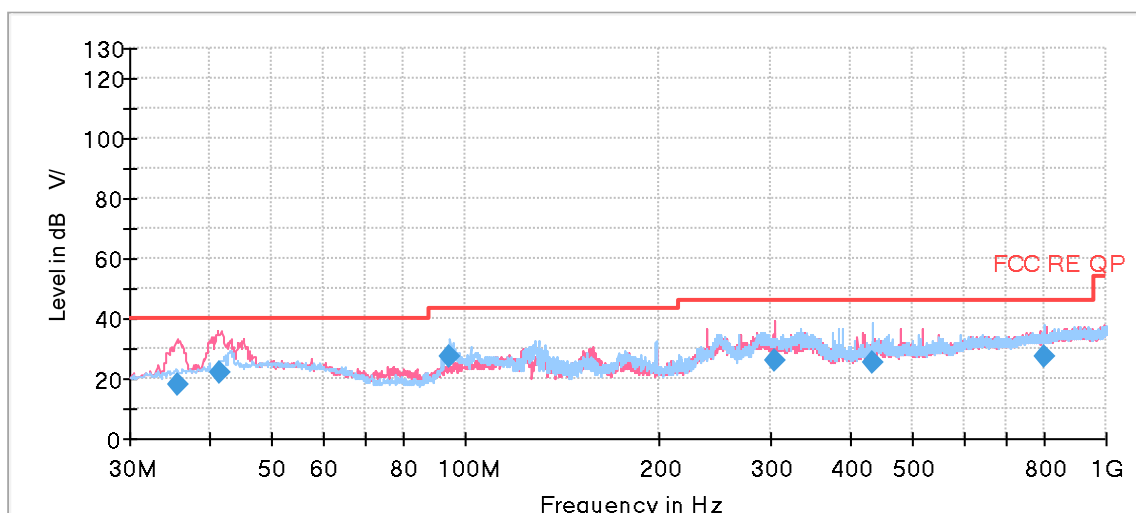
Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1609.875000	---	24.50	54.00	29.50	500.0	212.0	V	324.0	-10.4
1614.125000	37.44	---	74.00	36.56	500.0	121.0	V	237.0	-10.5
2377.000000	41.54	---	74.00	32.46	500.0	105.0	V	87.0	-5.9
2479.000000	---	29.26	54.00	24.74	500.0	103.0	V	4.0	-5.0
3907.000000	---	37.48	54.00	16.52	500.0	112.0	H	119.0	3.6
3909.125000	49.91	---	74.00	24.09	500.0	215.0	H	0.0	3.7
5583.625000	53.81	---	74.00	20.19	500.0	189.0	H	166.0	7.7
5596.375000	---	41.22	54.00	12.78	500.0	103.0	V	32.0	7.9
7942.375000	55.14	---	74.00	18.86	500.0	107.0	H	325.0	9.9
7944.500000	---	42.80	54.00	11.20	500.0	122.0	H	261.0	9.9
9865.500000	55.66	---	74.00	18.34	500.0	103.0	V	23.0	9.5
10165.125000	---	42.52	54.00	11.48	500.0	121.0	V	96.0	9.2

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

2. Margin = Limit – MaxPeak / Average

WR346



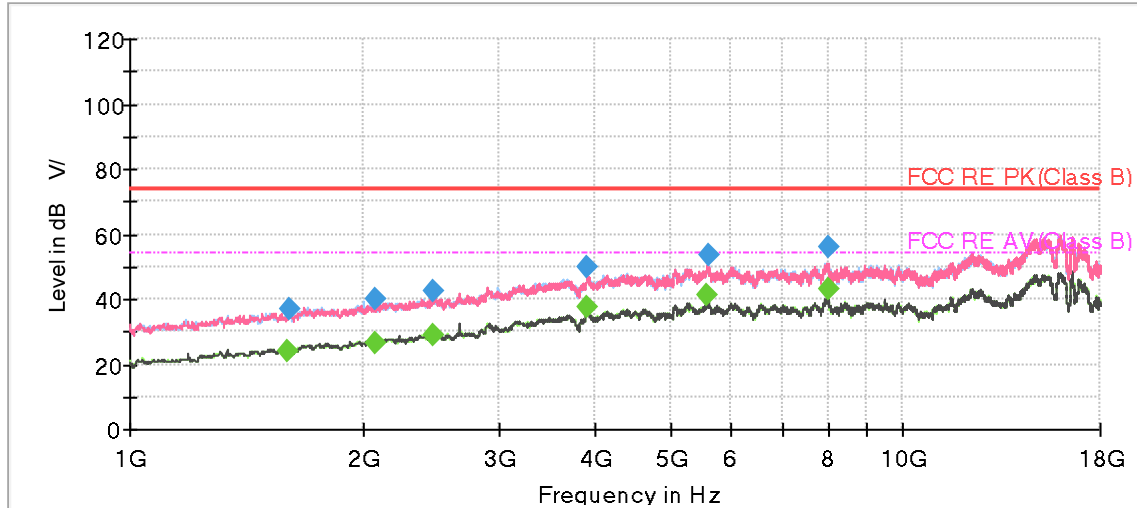
~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

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)
35.577500	17.98	40.00	22.02	187.0	V	4.0	18.5
41.427500	22.26	40.00	17.74	192.0	V	354.0	19.8
94.747500	27.38	43.50	16.12	215.0	H	17.0	18.5
304.510000	26.27	46.00	19.73	113.0	V	126.0	21.2
432.307500	25.42	46.00	20.58	195.0	H	261.0	24.0
802.483750	27.00	46.00	19.00	107.0	H	104.0	29.7

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 (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1601.375000	---	24.04	54.00	29.96	500.0	112.0	H	54.0	-10.8
1609.875000	36.99	---	74.00	37.01	500.0	212.0	V	157.0	-10.4
2077.375000	40.19	---	74.00	33.81	500.0	113.0	V	196.0	-7.9
2077.375000	---	26.63	54.00	27.37	500.0	105.0	V	196.0	-7.9
2472.625000	42.60	---	74.00	31.40	500.0	108.0	V	81.0	-4.9
2474.750000	---	29.22	54.00	24.78	500.0	113.0	V	178.0	-4.9
3907.000000	49.72	---	74.00	24.28	500.0	212.0	V	329.0	3.6
3911.250000	---	37.31	54.00	16.69	500.0	108.0	V	0.0	3.5
5581.500000	---	41.26	54.00	12.74	500.0	121.0	V	33.0	7.6
5602.750000	53.73	---	74.00	20.27	500.0	113.0	H	300.0	7.5
7993.375000	55.70	---	74.00	18.30	500.0	105.0	V	0.0	9.9
7993.375000	---	42.94	54.00	11.06	500.0	109.0	H	164.0	9.9

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

2. Margin = Limit – MaxPeak / Average

3.2 Conducted Emission

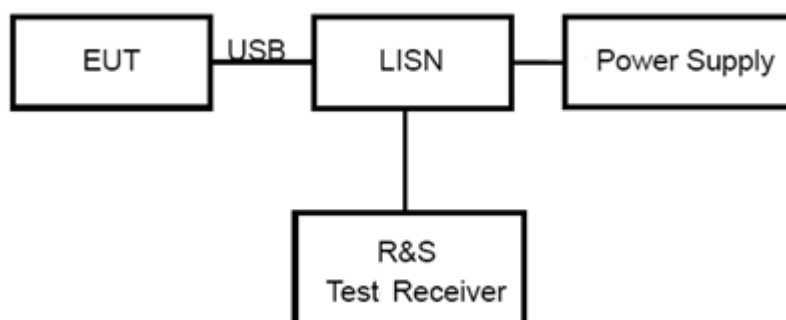
Ambient Condition

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

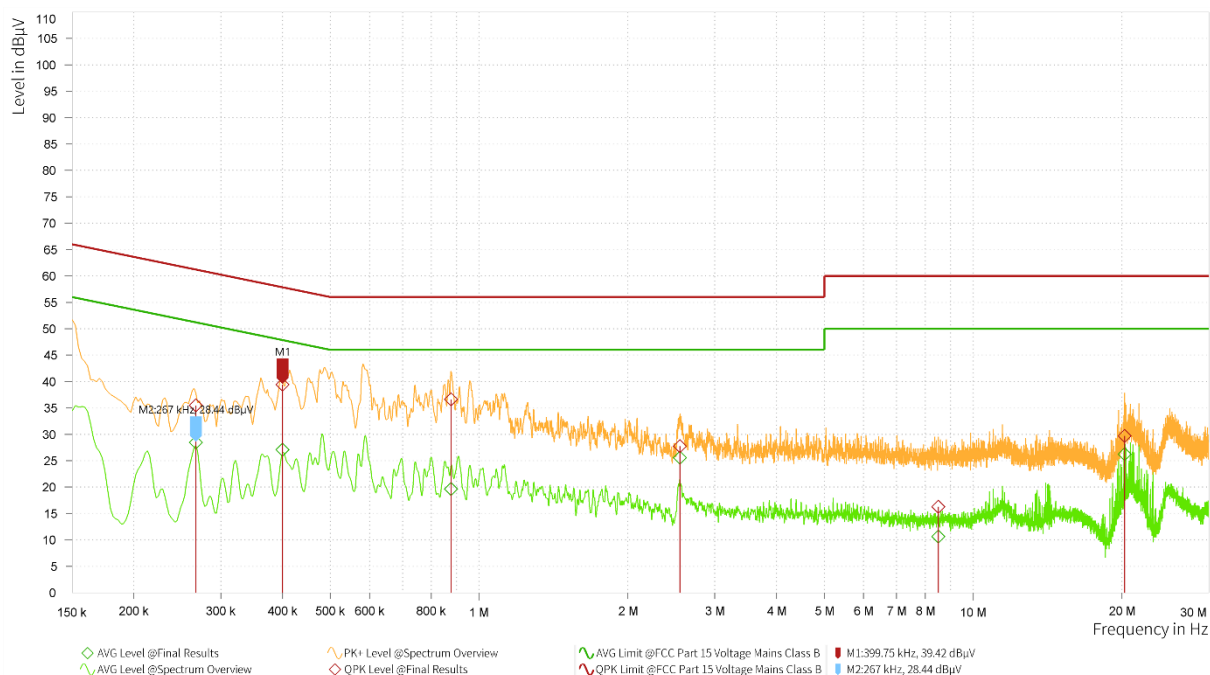
Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

*: Decreases with the logarithm of the frequency.

Note: The EUT should meet CLASS B limit.

Test Results

WR344

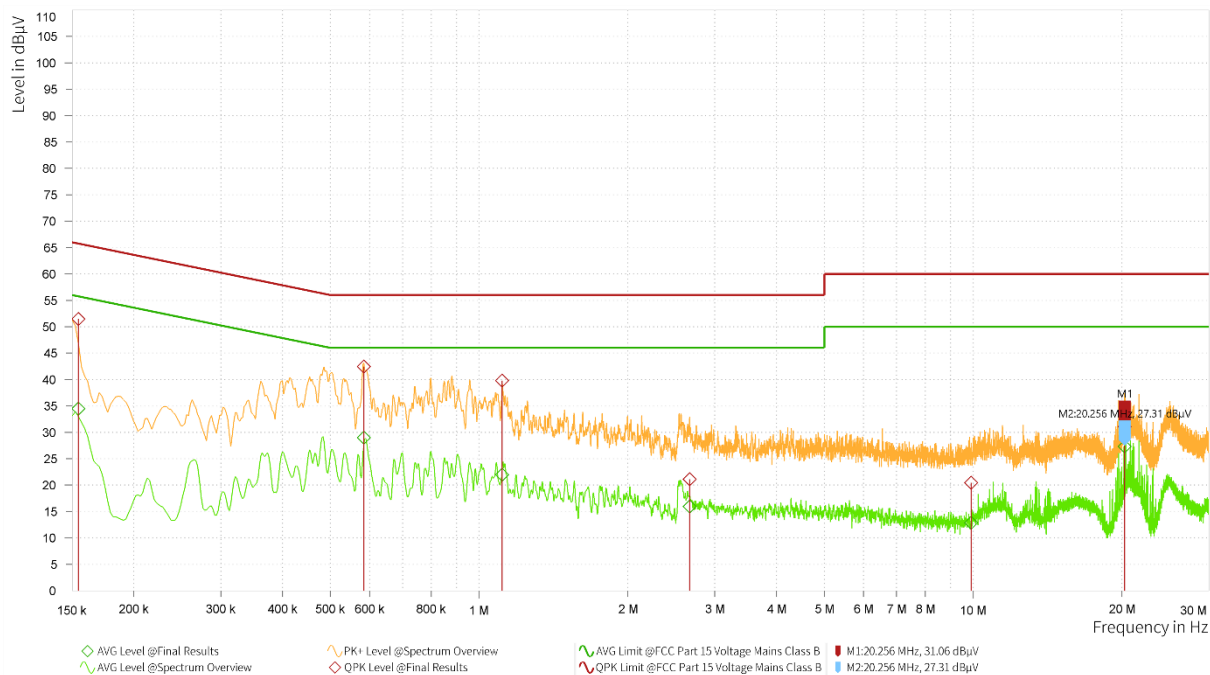


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.267	35.50	61.21	25.71	28.44	51.21	22.77	20.96	L1	9.000	1.000
0.400	39.42	57.86	18.44	27.10	47.86	20.76	20.88	L1	9.000	1.000
0.877	36.61	56.00	19.39	19.66	46.00	26.34	20.26	L1	9.000	1.000
2.551	27.75	56.00	28.25	25.58	46.00	20.42	19.54	L1	9.000	1.000
8.500	16.28	60.00	43.72	10.62	50.00	39.38	19.41	L1	9.000	1.000
20.263	29.67	60.00	30.33	26.22	50.00	23.78	19.67	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 kHz to 30 MHz



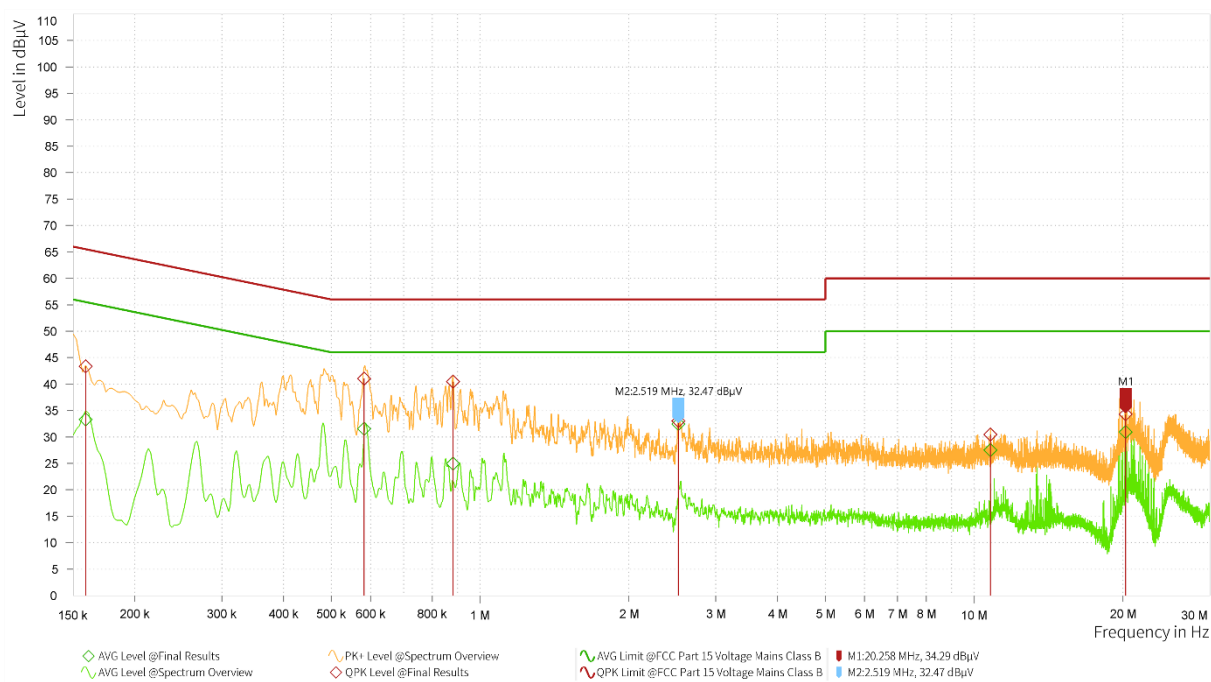
Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.155	51.45	65.75	14.30	34.47	55.75	21.28	20.91	N	9.000	1.000
0.584	42.43	56.00	13.57	28.97	46.00	17.03	20.70	N	9.000	1.000
1.113	39.78	56.00	16.22	21.98	46.00	24.02	20.09	N	9.000	1.000
2.668	21.12	56.00	34.88	15.95	46.00	30.05	19.53	N	9.000	1.000
9.908	20.43	60.00	39.57	12.86	50.00	37.14	19.44	N	9.000	1.000
20.256	31.06	60.00	28.94	27.31	50.00	22.69	19.72	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 kHz to 30 MHz

WR346

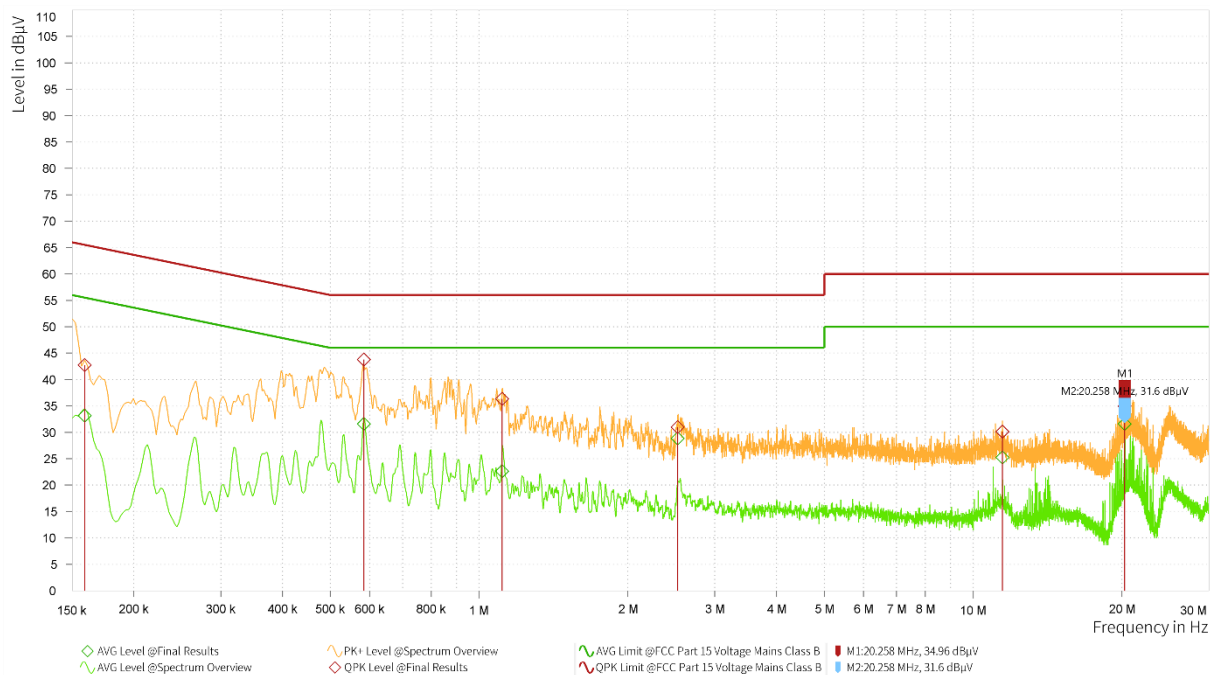


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.159	43.35	65.52	22.17	33.28	55.52	22.24	20.90	L1	9.000	1.000
0.582	41.01	56.00	14.99	31.55	46.00	14.45	20.69	L1	9.000	1.000
0.881	40.46	56.00	15.54	24.95	46.00	21.05	20.26	L1	9.000	1.000
2.519	33.00	56.00	23.00	32.47	46.00	13.53	19.54	L1	9.000	1.000
10.793	30.45	60.00	29.55	27.53	50.00	22.47	19.40	L1	9.000	1.000
20.258	34.29	60.00	25.71	30.91	50.00	19.09	19.67	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]
0.159	42.74	65.52	22.78	33.17	55.52	22.35	20.91	N	9.000	1.000
0.584	43.76	56.00	12.24	31.60	46.00	14.40	20.70	N	9.000	1.000
1.113	36.32	56.00	19.68	22.62	46.00	23.38	20.09	N	9.000	1.000
2.524	30.98	56.00	25.02	28.83	46.00	17.17	19.55	N	9.000	1.000
11.468	30.11	60.00	29.89	25.25	50.00	24.75	19.44	N	9.000	1.000
20.258	34.96	60.00	25.04	31.60	50.00	18.40	19.72	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	3.39 dB	1.96
Radiated Emission 200MHz – 1GHz	3.82 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/Version	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
Horn Antenna	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	R&S	SCU18F	101022	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
				2024-12-02	2025-12-01
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 *****