





# RF TEST REPORT

**Applicant** Hong Kong Fenical Trading Co., Ltd.

FCC ID 2AWPAFW2508

**Product** RC Tractor Toy

Model FW2508

**Report No.** EFTA25080201-IE-05-R1V1

**Issue Date** September 4, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15C (2024)**. 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.	August 28, 2025
Rev.1	Updated information.	September 4, 2025

Note: This revised report (Report No.: EFTA25080201-IE-05-R1V1) supersedes and replaces the previously issued report (Report No.: EFTA25080201-IE-05-R1). Please discard or destroy the previously issued report and dispose of it accordingly.



# **Summary of Measurement Results**

Number	Test Case	Clause in FCC rules	Verdict
1	20 dB bandwidth	15.215(c)	PASS
2	Radiated Emissions	15.249, 15.209	PASS
3	AC Power Line Conducted Emissions	15.207	NA Note1

Date of Testing: August 15, 2025 ~ August 28, 2025

Date of Sample Received: August 15, 2025

#### Note:

- 1. The equipment is not connected to the public network, so test items do not apply.
- 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

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# 2 General Description of Equipment under Test

# 2.1 Applicant and Manufacturer Information

Applicant	Hong Kong Fenical Trading Co., Ltd.	
Applicant address	UNIT C 9/F WINNING HOUSE 72-76 WING LOK STREET, SHEUNGWAN HONG KONG CHINA	
Manufacturer	SHANTOU CITY FUNWEE TRADING CO., LTD	
Manufacturer address	5TH FLOOR, AOJIAHUA COMMERCIAL BUILDING, WEST OF NINGCHUANG NORTH ROAD, GUANGYI STREET, CHENGHAI DISTRICT, SHANTOU CITY, GD PR., CHINA	

# 2.2 General information

EUT Description			
Model	FW2508		
Lab Internal SN	250815-14-003		
HW Version	FW2508_Y001		
SW Version	FW2508_R001		
Power Supply	DC 3V (2*AAA Battery, 1.5V)		
Antenna Type	Internal Antenna		
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)		
Frequency	2.4 GHz		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is			

Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.



# 3 Applied Standards

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

Test standards:

FCC CFR47 Part 15C (2024) Radio Frequency Devices ANSI C63.10-2020



# 4 Test Configuration

### **Test Mode**

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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 stand-up position (Z axis) and the worst case was recorded.

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2410	18	2427	35	2444	52	2461
2	2411	19	2428	36	2445	53	2462
3	2412	20	2429	37	2446	54	2463
4	2413	21	2430	38	2447	55	2464
5	2414	22	2431	39	2448	56	2465
6	2415	23	2432	40	2449	57	2466
7	2416	24	2433	41	2450	58	2467
8	2417	25	2434	42	2451	59	2468
9	2418	26	2435	43	2452	60	2469
10	2419	27	2436	44	2453	61	2470
11	2420	28	2437	45	2454		
12	2421	29	2438	46	2455		
13	2422	30	2439	47	2456		
14	2423	31	2440	48	2457		
15	2424	32	2441	49	2458		
16	2425	33	2442	50	2459		
17	2426	34	2443	51	2460		



### 5 Test Case Results

#### 5.1 20 dB Bandwidth

#### **Ambient condition**

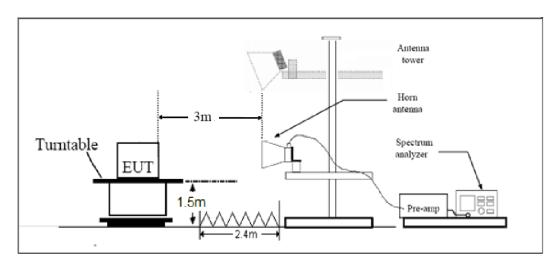
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### **Method of Measurement**

Tests are performed in accordance with ANSI C63.10-2013.

The 20 dB and 99% bandwidth of the fundamental frequency remain inside the band of operation of 10.597 MHz. The EUT was placed on a turn table which is 0.8m above ground plane. the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyze. The occupied bandwidth is measured using spectrum analyzer. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.

#### **Test Setup**



#### Limits

No specific occupied bandwidth requirements in part 15.215(c).

### **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2. U= 1.19 dB



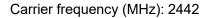
#### **Test Results**

Carrier frequency (MHz)	99% bandwidth (MHz)	20 dB bandwidth (MHz)	Conclusion
2410	1.3832	1.074	PASS
2442	1.0748	1.079	PASS
2470	1.0768	1.074	PASS





Carrier frequency (MHz): 2410





Carrier frequency (MHz): 2470

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#### 5.2 Radiated Emissions

#### **Ambient condition**

Temperature	Relative humidity	Pressure	
23°C ~25°C	45%~50%	101.5kPa	

#### **Method of Measurement**

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, 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 turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)
RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz(detector: Peak):

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

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

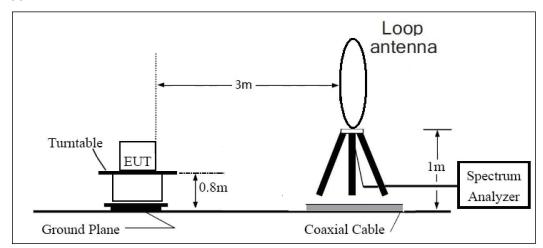
The radiated emission was measured in the following position: EUT lie-down position (X axis). The emission was recorded. Then this mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

The test is in transmitting mode.

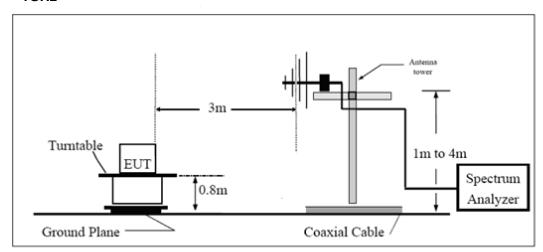


### **Test setup**

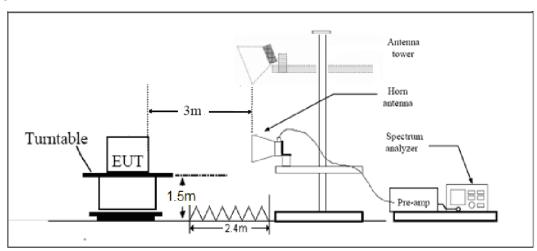
### 9kHz~~~ 30MHz



### 30MHz~~~ 1GHz



# **Above 1GHz**



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#### Limits

The frequency tolerance of the carrier signal shall be maintained within ±0.001%.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

Limit in radiated emission measurement (Part 15.249)

Frequency of emission (MHz)	Field strength of fundamental @3m		
2400-2483.5 MHz fundamental	50(millivolts/meter)	94(dBµV/m)	
2400-2483.5 MHz harmonics	500(microvolts/meter)	54(dBµV/m)	

Limit in radiated emission measurement (Part 15.209)

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBµV/m)
0.009-0.490	2400/F(kHz)	1
0.490-1.705	24000/F(kHz)	1
1.705–30.0	30	1
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960-1000	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBµV/m

Average Limit=54 dBµV/m



Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

# **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.02 dB
200MHz-1GHz	3.28 dB
Above 1GHz	3.70 dB

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#### **Test Results:**

### **Fundamental Field Strength**

Receiver antenna polarization (Horizontal and Vertical), the worst emission was found in position and the worst case and worst Antenna was recorded.

Level in dBµV/

60

2.442250000 GHz 78.727 dB µ V/

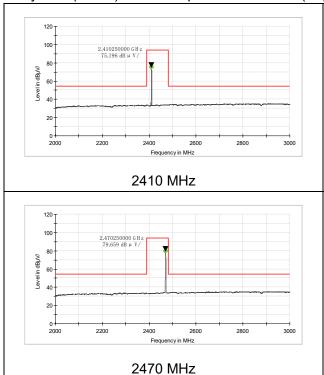
2200

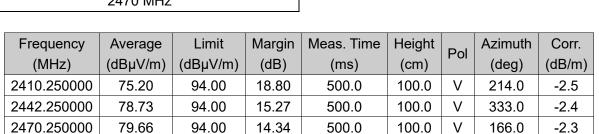
2442 MHz

2800

3000

A symbol (  $^{dB\mu V/}$  ) in the test plot below means (dB $\mu V/m)$ 



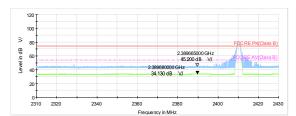




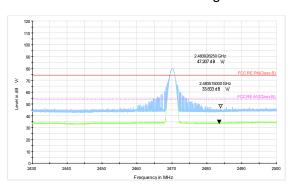
### **Band Edge Emission**

The following graphs display the maximum values of horizontal and vertical by software. A symbol (  $^{dB\mu V/}$  ) in the test plot below means ( $dB\mu V/m$ )

2410 MHz Peak+ Average



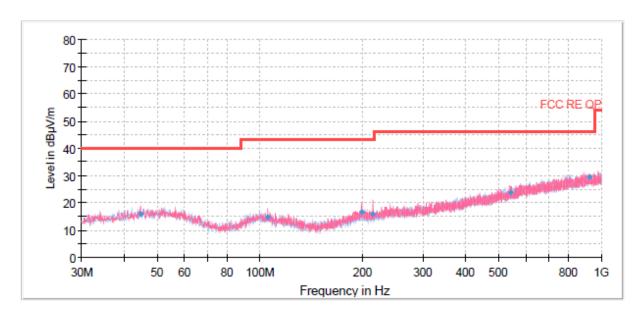
2470 MHz Peak+ Average



#### **Radiated Emission**

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



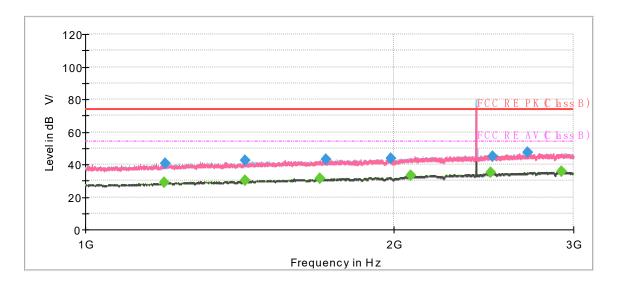
Note: The signal beyond the limit is carrier.
Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
44.55	15.99	40.00	24.01	101.0	V	0.00	20
105.42	14.71	43.50	28.79	135.0	V	339.00	18
197.93	16.71	43.50	26.79	101.0	V	353.00	18
214.42	15.73	43.50	27.77	112.0	V	306.00	18
543.37	23.59	46.00	22.41	101.0	Н	23.00	26
925.19	29.25	46.00	16.75	101.0	V	0.00	32

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

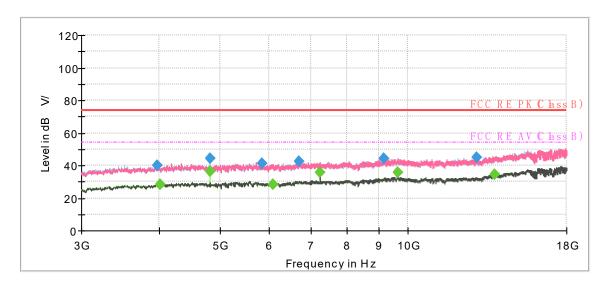
2. Margin = Limit – Quasi-Peak

# 2410 MHz



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

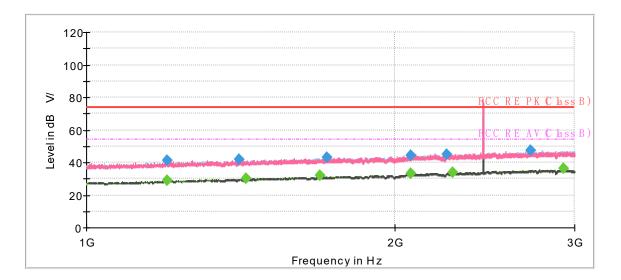
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1194.750000		29.04	54.00	24.96	500.0	100.0	٧	285.0	-8.9
1197.000000	40.87		74.00	33.13	500.0	200.0	٧	122.0	-8.9
1431.000000		30.16	54.00	23.84	500.0	100.0	Н	199.0	-7.4
1432.250000	42.27		74.00	31.73	500.0	200.0	Н	353.0	-7.4
1695.750000		31.33	54.00	22.67	500.0	100.0	٧	178.0	-6.0
1717.250000	43.35		74.00	30.65	500.0	200.0	Н	134.0	-5.9
1987.750000	43.77		74.00	30.23	500.0	100.0	Н	0.0	-4.6
2079.250000		33.00	54.00	21.00	500.0	100.0	٧	285.0	-3.9
2491.750000		34.92	54.00	19.08	500.0	100.0	Н	26.0	-2.1
2502.750000	45.18		74.00	28.82	500.0	200.0	Н	78.0	-2.1
2705.000000	47.23		74.00	26.77	500.0	100.0	Н	244.0	-1.6
2917.500000		35.88	54.00	18.12	500.0	200.0	Н	229.0	-1.0



Radiates Emission from 3GHz to 18GHz

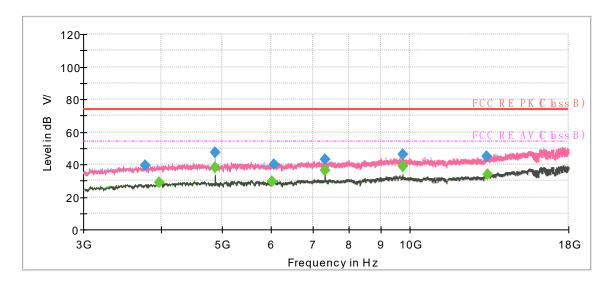
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3976.875000	40.02		74.00	33.98	500.0	100.0	٧	124.0	-6.9
4008.750000		28.43	54.00	25.57	500.0	200.0	٧	345.0	-6.8
4818.750000		36.39	54.00	17.61	500.0	100.0	н	3.0	-6.1
4818.750000	44.09		74.00	29.91	500.0	100.0	Н	3.0	-6.1
5840.625000	41.05		74.00	32.95	500.0	200.0	٧	164.0	-4.9
6088.125000		28.07	54.00	25.93	500.0	100.0	н	39.0	-4.4
6712.500000	42.30		74.00	31.70	500.0	100.0	٧	270.0	-3.5
7230.000000		35.73	54.00	18.27	500.0	200.0	Н	349.0	-2.9
9157.500000	44.24		74.00	29.76	500.0	100.0	٧	100.0	-1.1
9641.250000		35.45	54.00	18.55	500.0	100.0	Н	0.0	-0.6
12922.500000	44.89		74.00	29.11	500.0	200.0	Н	0.0	1.0
13818.750000		34.24	54.00	19.76	500.0	200.0	Н	0.0	3.8

# 2440 MHz



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

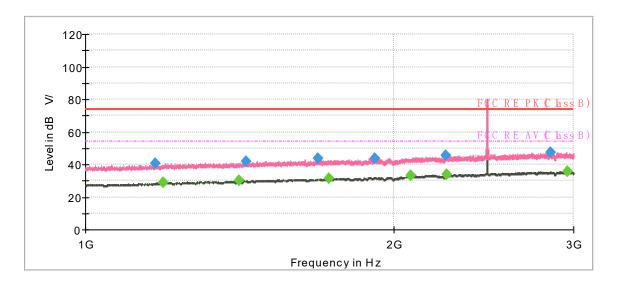
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.500000	40.92		74.00	33.08	500.0	100.0	н	169.0	-8.8
1200.500000		28.91	54.00	25.09	500.0	200.0	Н	119.0	-8.8
1410.000000	41.63		74.00	32.37	500.0	100.0	Н	162.0	-7.5
1433.000000		30.13	54.00	23.87	500.0	200.0	Н	0.0	-7.4
1692.500000		31.79	54.00	22.21	500.0	100.0	V	164.0	-6.0
1718.750000	42.96		74.00	31.04	500.0	100.0	Н	264.0	-5.9
2073.500000		33.00	54.00	21.00	500.0	100.0	Н	359.0	-4.0
2076.500000	44.31		74.00	29.69	500.0	200.0	Н	60.0	-4.0
2250.250000	45.11		74.00	28.89	500.0	100.0	V	200.0	-3.1
2278.750000		33.68	54.00	20.32	500.0	100.0	Н	119.0	-3.0
2719.750000	47.48		74.00	26.52	500.0	200.0	Н	126.0	-1.5
2927.500000		36.02	54.00	17.98	500.0	100.0	Н	83.0	-1.0



Radiates Emission from 3GHz to 18GHz

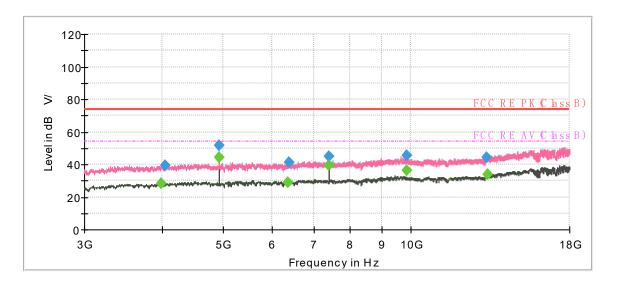
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3766.875000	39.55		74.00	34.45	500.0	100.0	Н	146.0	-7.8
3975.000000		28.82	54.00	25.18	500.0	200.0	٧	345.0	-6.9
4882.500000	47.40		74.00	26.60	500.0	100.0	Н	26.0	-5.7
4884.375000		38.24	54.00	15.76	500.0	200.0	Н	26.0	-5.7
6024.375000		29.53	54.00	24.47	500.0	100.0	٧	268.0	-4.3
6065.625000	40.20		74.00	33.80	500.0	100.0	н	47.0	-4.2
7325.625000	42.91		74.00	31.09	500.0	200.0	Н	81.0	-3.0
7325.625000		36.44	54.00	17.56	500.0	100.0	Н	81.0	-3.0
9768.750000	46.08		74.00	27.92	500.0	200.0	Н	2.0	-0.5
9768.750000		39.07	54.00	14.93	500.0	100.0	Н	2.0	-0.5
13286.250000	45.02		74.00	28.98	500.0	200.0	V	13.0	2.3
13331.250000		33.67	54.00	20.33	500.0	100.0	V	0.0	2.3

# 2480 MHz



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1170.250000	40.74		74.00	33.26	500.0	100.0	٧	78.0	-9.4
1192.250000		28.97	54.00	25.03	500.0	200.0	Н	132.0	-9.0
1414.000000		30.25	54.00	23.75	500.0	200.0	٧	28.0	-7.5
1434.500000	41.69		74.00	32.31	500.0	100.0	н	257.0	-7.4
1688.000000	43.46		74.00	30.54	500.0	200.0	٧	57.0	-6.0
1731.750000		31.41	54.00	22.59	500.0	100.0	Н	35.0	-5.8
1920.250000	43.89		74.00	30.11	500.0	200.0	Н	213.0	-4.9
2079.750000		32.98	54.00	21.02	500.0	100.0	Н	16.0	-3.9
2251.750000	45.66		74.00	28.34	500.0	100.0	٧	28.0	-3.1
2256.000000		33.74	54.00	20.26	500.0	100.0	٧	6.0	-3.0
2848.250000	47.66		74.00	26.34	500.0	200.0	Н	353.0	-1.1
2957.750000		35.72	54.00	18.28	500.0	100.0	Н	168.0	-0.8



Radiates Emission from 3GHz 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)
3986.250000		28.39	54.00	25.61	500.0	200.0	V	177.0	-6.8
4042.500000	39.60		74.00	34.40	500.0	100.0	Н	264.0	-6.7
4938.750000		44.57	54.00	9.43	500.0	100.0	Н	206.0	-5.4
4938.750000	51.42		74.00	22.58	500.0	200.0	Н	206.0	-5.4
6365.625000		28.86	54.00	25.14	500.0	100.0	Н	118.0	-4.3
6378.750000	41.35		74.00	32.65	500.0	100.0	Н	198.0	-4.2
7410.000000		39.25	54.00	14.75	500.0	200.0	V	209.0	-2.8
7410.000000	45.17		74.00	28.83	500.0	100.0	V	209.0	-2.8
9881.250000	45.37		74.00	28.63	500.0	200.0	Н	1.0	-0.6
9881.250000		36.20	54.00	17.80	500.0	100.0	Н	1.0	-0.6
13267.500000	44.52		74.00	29.48	500.0	100.0	٧	169.0	2.2
13316.250000		33.55	54.00	20.45	500.0	200.0	Н	264.0	2.3



#### 5.3 AC Power Line Conducted Emissions

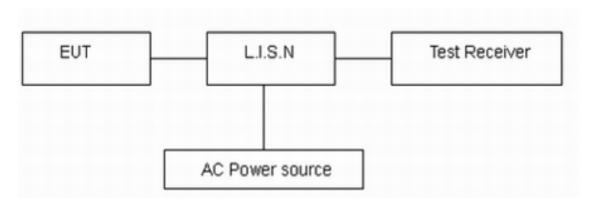
#### **Ambient condition**

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

#### **Method 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 C63.10-2013. 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. The test is in transmitting mode.

#### **Test Setup**



Note: AC Power source is used to change the voltage from 220V/50Hz to 110V/60Hz.

#### Limits

Frequency	Conducted Limits(dBμV)							
(MHz)	Quasi-peak	Average						
0.15 - 0.5	66 to 56 *	56 to 46*						
0.5 - 5	56	46						
5 - 30	60	50						
*: Decrease	*: Decreases with the logarithm of the frequency.							

### **Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2. U= 1.19 dB



# Test Results:

The equipment is not connected to the public network, so test items do not apply.



# 6 Main Test Instruments

Name of Equipment	Manufacturer	Manufacturer Type/Model		Calibration Date	Expiration Time
EMI Test Receiver	R&S	ESCI3	100948	2025-05-07	2026-05-06
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
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
Software	R&S	EMC32	9.26.01	1	/



ANNEY A. The EUT Appearance

# **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 \*\*\*\*\*