

# FCC RADIO TEST REPORT

**FCC ID: 2BRB6-TLK1**

**Sample : TLK1**

**Trade Mark : N/A**

**Main Model : TLK1**

**Additional Model : N/A**

**Report No. : UNIA25070807ER-62**

## Prepared for

Shenzhen EoneBoss Technology Co., LTD  
Room 508, Block A, Tongxin Technology Building, No. 6261 Baoan Avenue,  
Fuhai Street, Baoan District, Shenzhen, China

## Prepared by

Global United Technology Services Co. Ltd.  
No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial  
Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

## TEST RESULT CERTIFICATION

**Applicant** ..... : Shenzhen EoneBoss Technology Co., LTD  
**Address**..... : Room 508, Block A, Tongxin Technology Building, No. 6261 Baoan Avenue, Fuhai Street, Baoan District, Shenzhen, China

**Manufacturer** ..... : Shenzhen EoneBoss Technology Co., LTD  
**Address**..... : Room 508, Block A, Tongxin Technology Building, No. 6261 Baoan Avenue, Fuhai Street, Baoan District, Shenzhen City, Guangdong

### Product description

**Product** ..... : TLK1

**Trade Mark**..... : N/A

**Model Name** ..... : TLK1

**Test Methods** ..... : FCC Rules and Regulations Part 15 Subpart C Section 15.209  
ANSI C63.10: 2013

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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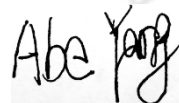
### Date of Test

**Date (s) of performance of tests**..... : Jul. 22, 2025 ~ Jul. 28, 2025

**Date of Issue** ..... : Jul. 29, 2025

**Test Result**..... : Pass

Edited by:



Abe Yang

Reviewed by:



Kelly Cheng

Approved by:



Liuze

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## 1 TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC Part 15.207	Conducted Emission	Pass
2	FCC Part 15.209(a)	Radiated Emission	Pass
3	FCC Part 15.203	Antenna Requirement	Pass

### 1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.  
Address : D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,  
Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.



### 1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 150kHz	2.96	
		150kHz ~ 30MHz	2.44	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9kHz ~ 30MHz	2.50	
		30MHz ~ 1000MHz	4.80	
		Above 1000MHz	4.13	

#### C. RF Conducted Method:

Item	Measurement Uncertainty
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

### 1.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>Product:</b>	TLK1
<b>Trade Name:</b>	N/A
<b>Main Model:</b>	TLK1
<b>Additional Model:</b>	N/A
<b>Model Difference:</b>	N/A
<b>FCC ID:</b>	2BRB6-TLK1
<b>Operation Frequency:</b>	134.2kHz
<b>Number of Channels:</b>	1CH
<b>Modulation Type:</b>	ASK, PSK, FSK
<b>Antenna Type:</b>	Coil Antenna
<b>Antenna Gain:</b>	0dBi
<b>Battery:</b>	DC 3.7V, 450mAh
<b>Adapter:</b>	N/A
<b>Power Source:</b>	DC 5.0V from adapter or DC 3.7V from battery

## 2.2 CARRIER FREQUENCY OF CHANNELS

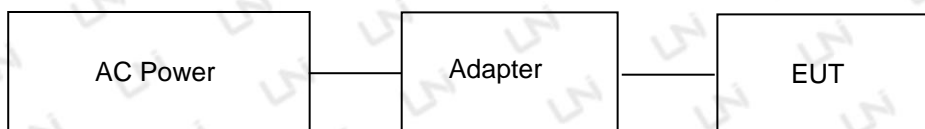
Channel List	
Channel	Frequency (kHz)
01	134.2

## 2.3 TEST MODE

NO.	TEST MODE DESCRIPTION
1	134.2kHz

## 2.4 TEST SETUP

Operation of EUT during Conducted and Radiation below 1GHz testing:



Operation of EUT during Radiation above 1GHz testing:



## 2.5 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Cable Length(m)	Note
1	TLK1	TLK1	--	EUT

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

## 2.6 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
Conduction Emissions Measurement					
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A
2	AMN	Schwarzbeck	NNLK8121	8121370	2026.03.25
3	AAN	TESEQ	T8-Cat6	38888	2026.03.25
4	Pulse Limiter	CYBRTEK	EM5010	E115010056	2026.03.25
5	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2026.03.25
Radiated Emissions Measurement					
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A
2	Horn Antenna	Sunol	DRH-118	A101415	2027.03.27
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2027.03.27
4	PREAMP	HP	8449B	3008A00160	2026.03.29
5	PREAMP	HP	8447D	2944A07999	2026.03.25
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2026.03.25
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2026.03.25
8	Signal Generator	Agilent	E4421B	MY4335105	2026.03.25
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2026.03.25
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2026.03.25
11	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2026.03.26
12	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2026.03.26
13	RF power divider	Anritsu	K241B	992289	2026.03.26
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2026.03.25
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2026.05.26
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2026.03.25
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2026.03.25
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2026.03.25
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2026.03.26
20	Signal Generator	Agilent	N5183A	MY47420153	2026.03.27
21	Spectrum Analyzer	Rohde&Schwarz	FSP 40	100501	2026.03.27
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2026.03.27
23	Frequency Meter	VICTOR	VC2000	997406086	2026.03.27
24	DC Power Source	HYELEC	HY5020E	055161818	2026.03.27
25	Low-noise Amplifier	WSC	DLNA-9K-1000	WCSLNA240816A	2026.03.25
26	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101798	2026.06.25
27	MTS 8310	MW	Copyright MWRFTest 2017	V2.0.0.0	N/A



### 3 CONDUCTED EMISSION

#### 3.1 TEST LIMIT

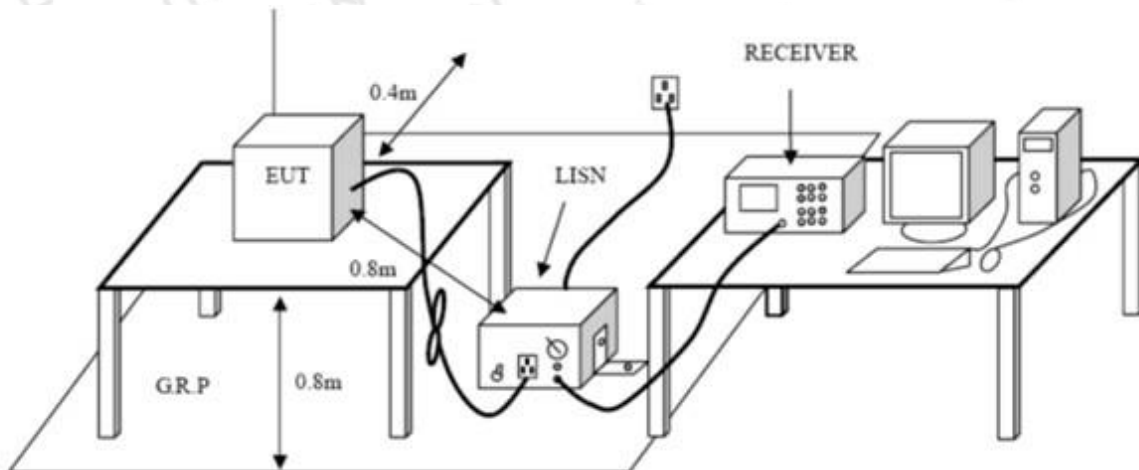
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15~0.50	79	66	66~56*	56~46*
0.50~5.00	73	60	56	46
5.00~30.0	73	60	60	50

\* Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

#### 3.2 TEST SETUP



### 3.3 TEST PROCEDURE

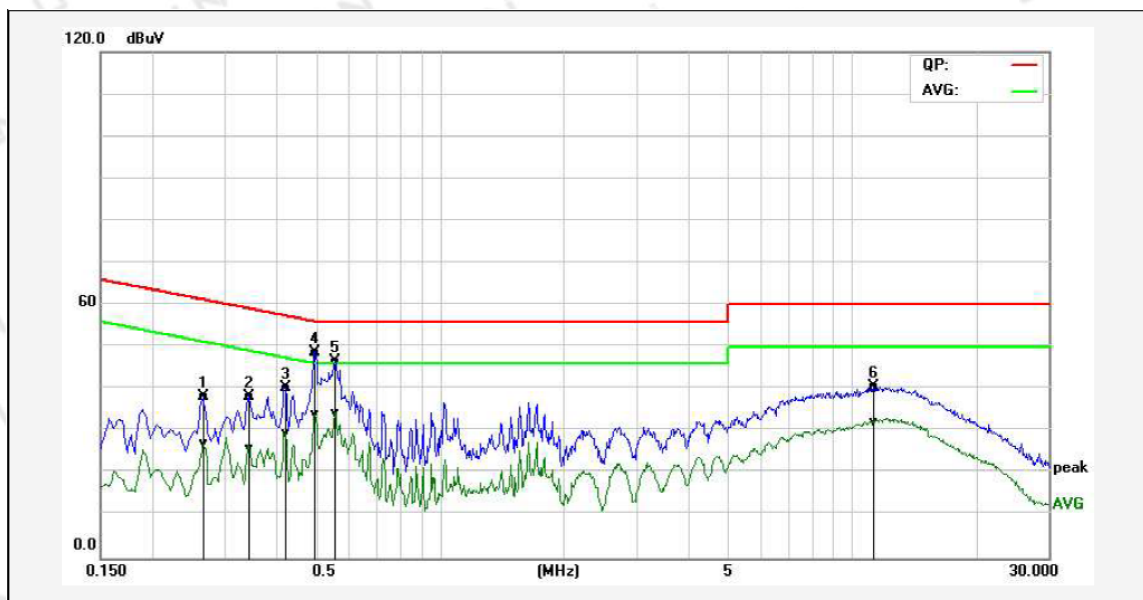
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

### 3.4 TEST RESULT

PASS

Remark: EUT was tested at AC 120V and 240V, only the worst result of AC 120V was reported.

Temperature:	24°C	Relative Humidity:	48%
Test Date:	Jul. 23, 2025	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Line
Test Mode:	Transmitting mode 134.2kHz		

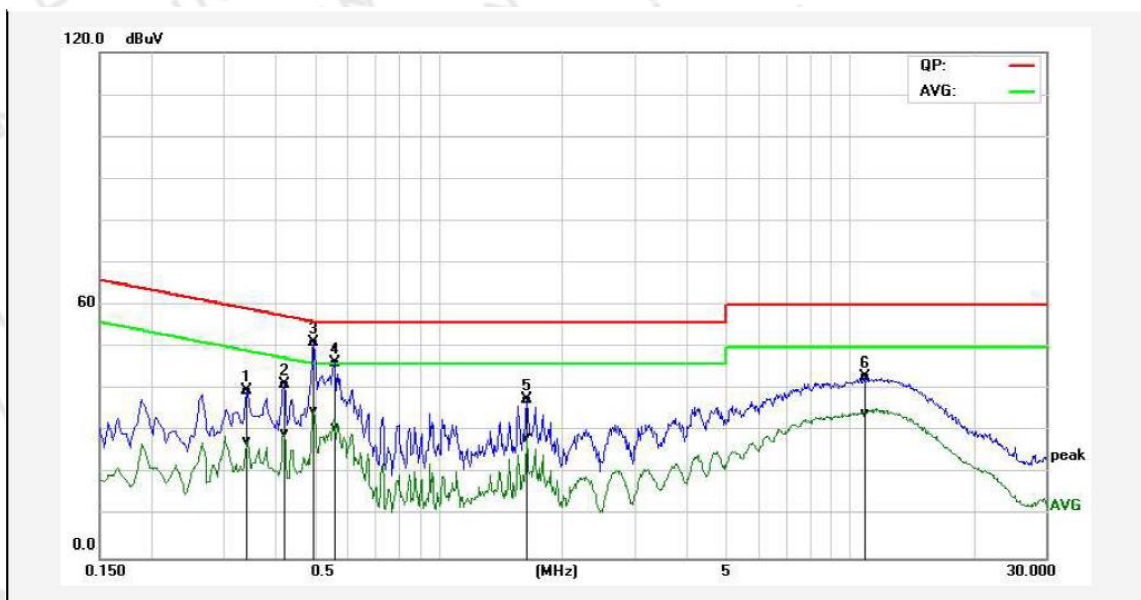


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.2660	27.64	16.46	10.74	38.38	27.20	61.24	51.24	-22.86	-24.04	Pass
2P	0.3460	27.57	15.26	10.78	38.35	26.04	59.06	49.06	-20.71	-23.02	Pass
3P	0.4220	29.61	18.83	10.86	40.47	29.69	57.41	47.41	-16.94	-17.72	Pass
4*	0.4980	37.97	23.06	10.87	48.84	33.93	56.03	46.03	-7.19	-12.10	Pass
5P	0.5580	35.80	23.46	10.87	46.67	34.33	56.00	46.00	-9.33	-11.67	Pass
6P	11.2700	26.53	18.07	14.15	40.68	32.22	60.00	50.00	-19.32	-17.78	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.



Temperature:	24°C	Relative Humidity:	48%
Test Date:	Jul. 23, 2025	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral
Test Mode:	Transmitting mode 134.2kHz		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.3420	29.00	16.98	10.77	39.77	27.75	59.15	49.15	-19.38	-21.40	Pass
2P	0.4220	30.32	18.82	10.86	41.18	29.68	57.41	47.41	-16.23	-17.73	Pass
3*	0.4980	40.14	24.12	10.87	51.01	34.99	56.03	46.03	-5.02	-11.04	Pass
4P	0.5620	35.59	20.06	10.87	46.46	30.93	56.00	46.00	-9.54	-15.07	Pass
5P	1.6420	26.60	17.59	11.12	37.72	28.71	56.00	46.00	-18.28	-17.29	Pass
6P	10.8700	29.01	20.43	13.93	42.94	34.36	60.00	50.00	-17.06	-15.64	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.



## 4 RADIATED EMISSION

### 4.1 TEST LIMIT

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
1\ 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			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	3
0.490-1.705	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

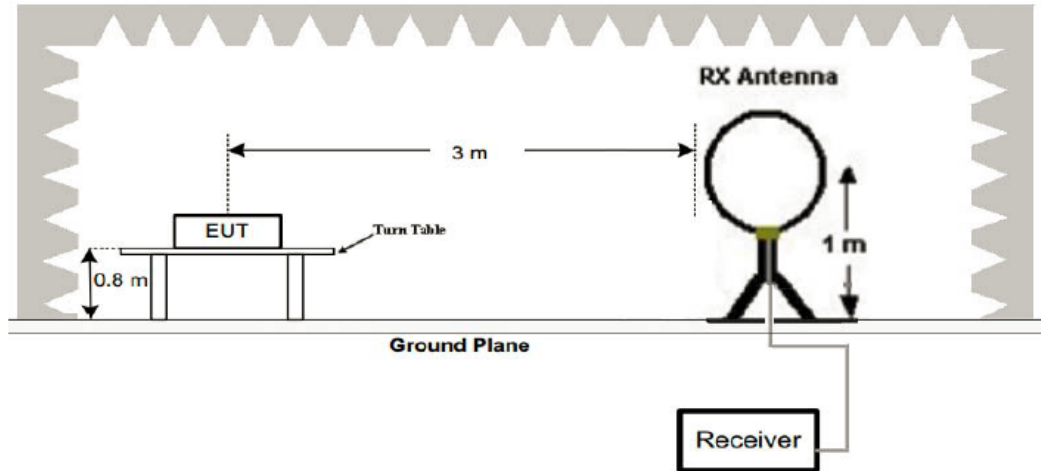
CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

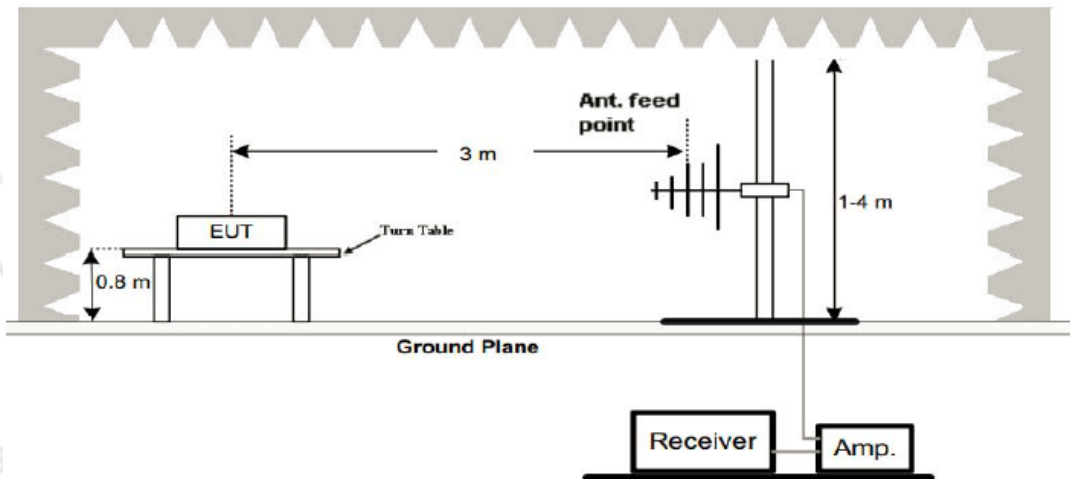
Transmitter Spurious Emissions 9KHz-30MHz			
	9-150KHz	150-490KHz	490KHz-30MHz
Resolution Bandwidth	200Hz	9KHz	9KHz
Video Bandwidth	2KHz	100KHz	100KHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

## 4.2 TEST SETUP

### 1. Radiated Emission Test-Up Frequency Below 30MHz



### 2. Radiated Emission Test-Up Frequency 30MHz~1GHz



### 4.3 TEST PROCEDURE

1. Measurement distance is 3m.
2. For the measurement range up to 30MHz in the following plots the field strength result from 3m.
3. Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade. According to part 15.31(f)(2), per antenna factor scaling.
4. Measurements below 1000MHz are performed with a peak detector and compared to average limits. Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

### 4.4 TEST RESULT

PASS

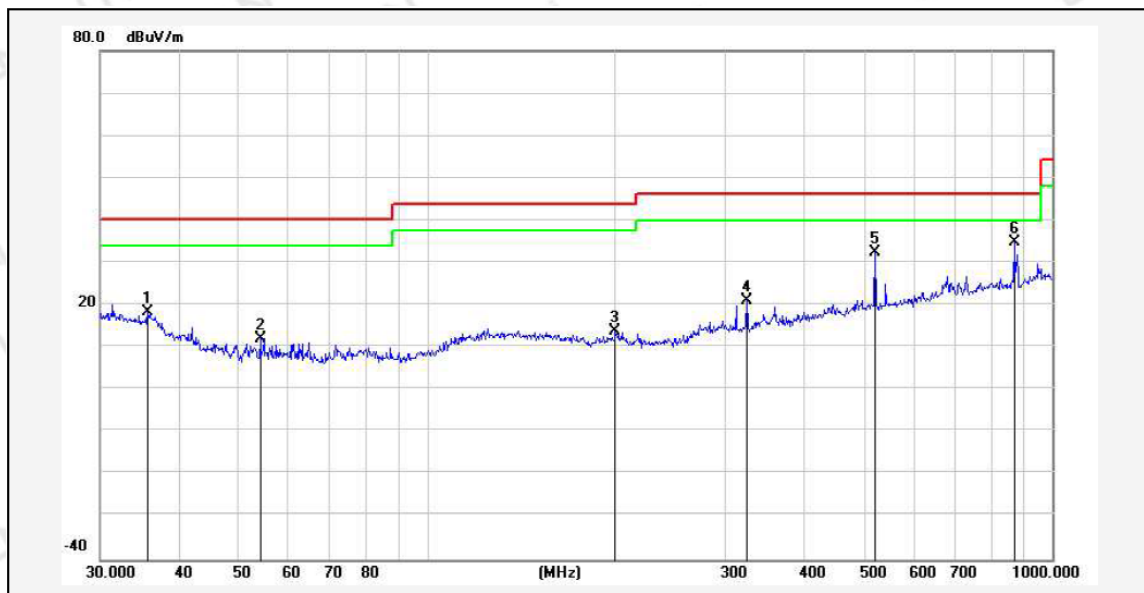
For 9KHz-30MHz Test Results:

Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1342	PK	71.40	15.48	86.88	106.83	-19.95
0.3818	PK	68.92	15.98	84.90	105.05	-20.15
0.6161	PK	66.59	16.23	82.82	103.74	-20.92
1.3754	PK	26.28	15.21	41.49	69.5	-28.01
2.5272	PK	21.51	15.67	37.18	69.5	-32.32
3.6794	PK	26.79	15.60	42.39	69.5	-27.11



### For 30MHz-1GHz Test Results:

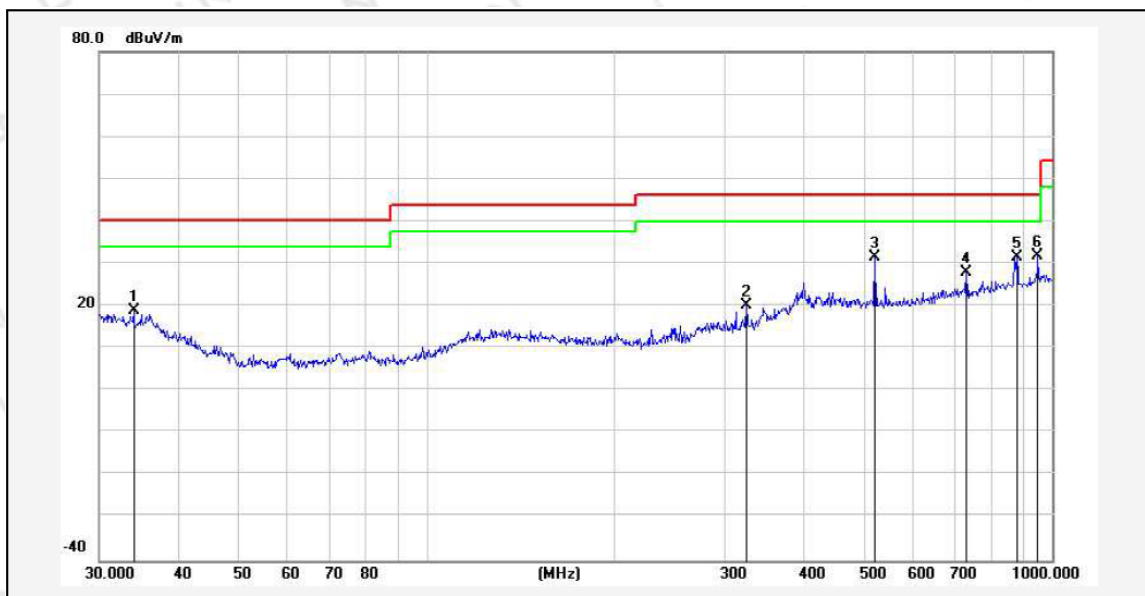
Temperature:	24℃	Relative Humidity:	48%
Test Date:	Jul. 24, 2025	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Horizontal
Test Mode:	Transmitting mode 134.2kHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	35.7490	30.07	-11.85	18.22	40.00	-21.78	185	100	QP
2	54.0711	32.97	-20.90	12.07	40.00	-27.93	176	100	QP
3	199.9856	27.85	-14.13	13.72	43.50	-29.78	191	100	QP
4	324.4561	32.61	-11.57	21.04	46.00	-24.96	143	100	QP
5	520.8882	39.37	-7.01	32.36	46.00	-13.64	137	100	QP
6*	869.1302	36.30	-1.59	34.71	46.00	-11.29	122	100	QP

Remark: Result = Reading Level + Factor, Margin = Result – Limit  
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Temperature:	24℃	Relative Humidity:	48%
Test Date:	Jul. 24, 2025	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Vertical
Test Mode:	Transmitting mode 134.2kHz		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	34.0365	30.18	-11.11	19.07	40.00	-20.93	149	100	QP
2	324.4561	31.67	-11.57	20.10	46.00	-25.90	133	100	QP
3	520.8882	38.45	-7.01	31.44	46.00	-14.56	152	100	QP
4	729.3583	32.01	-3.98	28.03	46.00	-17.97	162	100	QP
5	878.3214	33.04	-1.43	31.61	46.00	-14.39	140	100	QP
6*	948.7610	32.44	-0.47	31.97	46.00	-14.03	167	100	QP

Remark: Result = Reading Level + Factor, Margin = Result – Limit  
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

- \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

## 5 ANTENNA REQUIREMENT

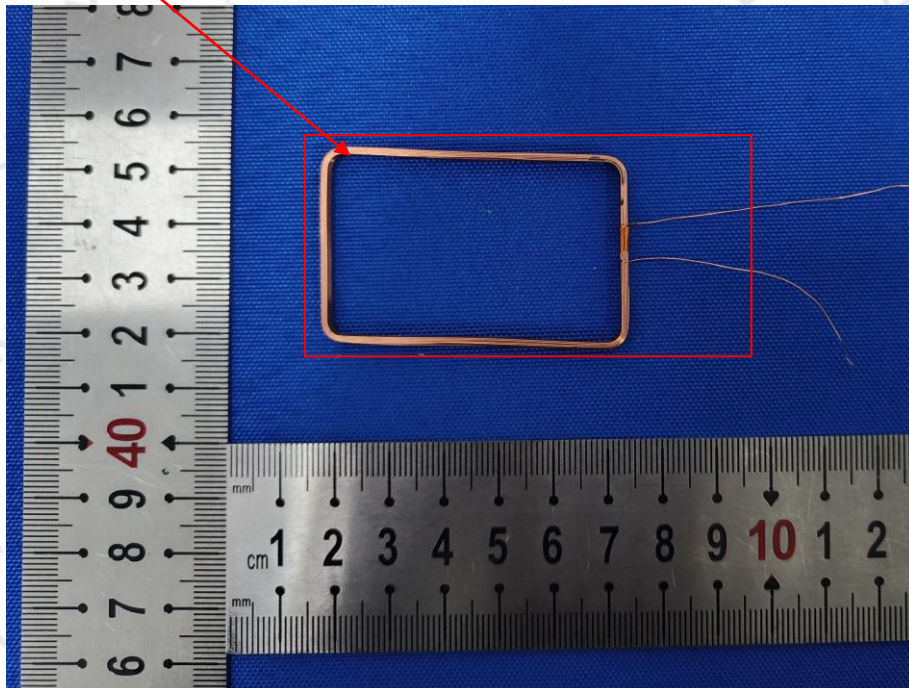
### Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### Antenna Connected Construction:

The antenna used in this product is Coil Antenna.

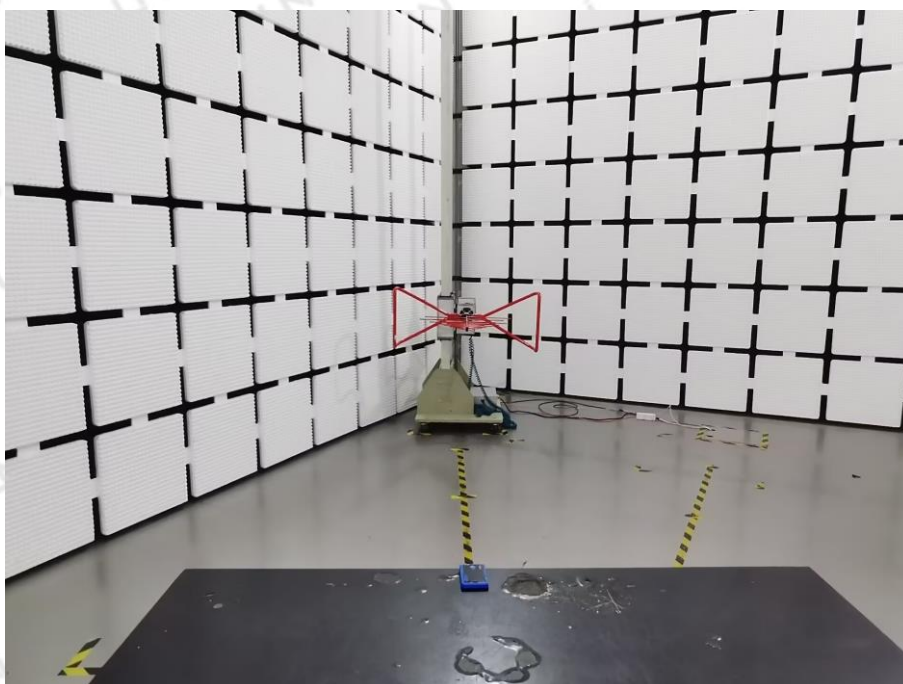
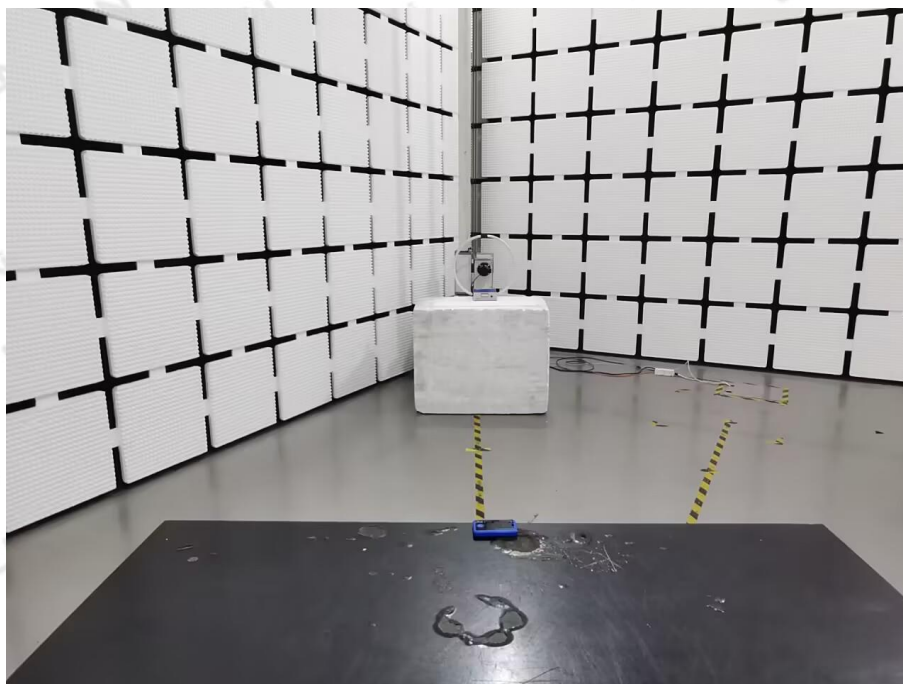
### ANTENNA:





## 6 PHOTO OF TEST

### 6.1 RADIATED EMISSION





## 6.2 CONDUCTED EMISSION



\*\*\*End of Report\*\*\*