

FCC ID CERTIFICATION TEST REPORT

Applicant	:	Subblue Underwater AI Co.,Ltd.
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Manufacturer	:	Subblue Underwater AI Co.,Ltd.
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Equipment under Test	:	Subblue Underwater Scooter
Model No.	:	Vapor Pro
Trade Mark	:	SUBBLUE
FCC ID	:	2ASEE-AP8003
Report No.	:	LS-Q26032023-12F04
Issue Date	:	May. 25, 2026



LabSure Testing Services (Suzhou) Co., Ltd.

TABLE OF CONTENTS

	Test report declares.....	3
1	Summary of test results	5
2	General test information	6
2.1.	Description of EUT	6
2.2.	Accessories of EUT	6
2.3.	Assistant equipment used for test	6
2.4.	Block diagram of EUT configuration for test.....	6
2.5.	Deviations of test standard.....	6
2.6.	Test environment conditions	6
2.7.	Test laboratory	7
2.8.	Measurement uncertainty	7
3	Equipment used during test	8
4	20dB Bandwidth.....	10
4.1.	General Information.....	10
4.2.	Block diagram of test setup.....	10
4.3.	Limits	10
4.4.	Test Procedure.....	10
4.5.	Test Result.....	10
4.6.	Test graphs	11
5	Radiated Spurious Emission.....	12
5.1.	Block diagram of test setup.....	12
5.2.	Limit	13
5.3.	Test Procedure.....	14
5.4.	Test result	15
6	Power Line Conducted Emission	19
6.1.	General Information.....	19
6.2.	Block diagram of test setup.....	19
6.3.	Power Line Conducted Emission Limits.....	19
6.4.	Test Procedure.....	19
6.5.	Test Result.....	20
7	Antenna Requirements	21
7.1.	Limit	21
7.2.	Result	21
8	Test setup photograph.....	22
9	Photos of the EUT	22

TEST REPORT DECLARE

Applicant	:	Sublue Underwater AI Co.,Ltd.
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Manufacturer	:	Sublue Underwater AI Co.,Ltd.
Address	:	Building 7, Jinbin Development Industrial Park, #45Muning Road, TEDA.TianJin China.
Equipment under Test	:	Sublue Underwater Scooter
Model No.	:	Vapor Pro
Trade Mark	:	SUBLUE

Test Standard Used: 47 CFR FCC Part 15 Subpart C; KDB680106 D01 Wireless Power Transfer v04

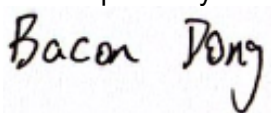
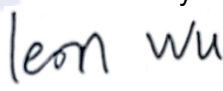
Test procedure used: ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

We Declare:

The equipment described above is tested by LabSure Testing Services (Suzhou) Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and LabSure Testing Services (Suzhou) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No:	LS-R26032023-12F04		
Sample No:	Y26032023-08		
Date of Receipt:	Apr. 07, 2026	Date of Test:	Apr. 07, 2026~ May. 25, 2026

Prepared By: 	Reviewed By: 	Authorized By: 
Bacon Dong/Engineer	Leon Wu/Director	Chris Zhong/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Suzhou) Co., Ltd. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification. The results reported herein have been performed in accordance with the laboratory's terms of accreditation.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	May. 25, 2026	

1 Summary of test results

Description of Test Item	Standard	Results
20dB Bandwidth	FCC Part 15.215	PASS
Radiated Spurious Emission	FCC Part 15.209	PASS
Power Line Conducted Emissions	FCC Part 15.207	N/A
Antenna requirement	FCC Part 15.203	PASS

Note: The measurement result for the sample received is <Pass> according to < ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, 47 CFR FCC Part 2, 47 CFR FCC Part 15 Subpart C, KDB680106 D01 Wireless Power Transfer v04 > when < Simple Acceptance > decision rule is applied.

2 General test information

2.1. Description of EUT

EUT Name	:	Subblue Underwater Scooter
Model Number	:	Vapor Pro
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 33.6V by Polymer Li-ion built-in battery
Wireless charging Operation frequency	:	317kHz
Number of Channel	:	1
Antenna Type	:	Inductive loop coil antenna
Antenna Gain	:	0 dBi (Declare by customer and the lab isn't responsible for the value)
Sample Number	:	N/A

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Accessories	Manufacturer	Model No.	Description	Remark
AC adapter	JIN XIN YU POWER(SHEN ZHEN) SUPPLY CO., LTD	XVE550-03361300	Input:100-240V~50/60Hz, 10A MAX. Output: DC 33.6V, 13A	This AC adapter can only be used with this model of DC 33.6V battery

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number or Type	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

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

Temperature range:	20-28°C
Humidity range:	20-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Lab Information	Company Name: LabSure Testing Services (Suzhou) Co., Ltd. Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China
Accreditation Certificate	A2LA (Certificate No.: 7346.01) LabSure Testing Services (Suzhou) Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1397) LabSure Testing Services (Suzhou) Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 32952; CAB No.:CN0182) LabSure Testing Services (Suzhou) Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS. Note 3: The test anechoic chamber in LabSure Testing Services (Suzhou) Co., Ltd. had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.	

2.8. Measurement uncertainty

Test Item	Uncertainty
Conducted Emissions at Mains Power Port	2.7 dB (150KHz-30MHz)
Radiated Emissions (9kHz to 30MHz) at 10m Chamber	3.4dB
Radiated Emissions (30MHz to 1GHz) at 3m Chamber	4.2dB
Radiated Emissions (Above 1GHz) at 3m Chamber	4.4 dB(1GHz-6GHz) 4.7 dB(6GHz-18GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Equipment used during test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Conducted Test					
EXG Analog Signal Generator (9kHz-32GHz)	Keysight	N5173B	MY53270968	2026/02/11	1 Year
MXG Vector Signal Generator (100kHz-6GHz)	Agilent	N5182A	MY50143288	2026/02/11	1 Year
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	1201.0002K50-158800-Qi	2026/02/11	1 Year
PXA Signal Analyzer (3Hz-44GHz)	Keysight	N9030B	MY56320639	2026/03/14	1 Year
Temperature, humidity and pressure recorder	Huahanwei	THP40W-E	c0222020002d	2026/03/02	1 Year
RF Test Software	MWRFTest	MTS 8310	2.0.0.0	N/A	N/A
Radiated Spurious Emission in 3m EMI Chamber					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
3m Anechoic Chamber	CeRuiTong	3m-SAC	N/A	2024/05/10	3 Year
EMI Test Receiver	R&S	ESCI7	101138	2026/01/25	1 Year
Signal Analyzer	R&S	FSV40-N	101730	2026/01/25	1 Year
Loop antenna (9kHz-30MHz)	SCHWARZBEC K	FMZB1519-60 D	00058	2024/11/05	3 Year
Hybrid antenna	TESEQ	CBL6141B	27421	2024/01/10	3 Year
Horn Antenna	ETS-Lindgren	3117	157735	2024/01/19	3 Year
Active Horn Antenna	Com-Power	AHA-840	10100024	2023/10/16	3 Year
Pre-Amplifier_HF	COM-MW	DPA8-1000-18 000-1012	05231257	2026/01/25	1 Year
Low Noise Amplifier	Tonscend	TAP10M1G40 N	806JSAP0399 04251006	2026/01/25	1 Year
Temperature, humidity and pressure recorder	Huahanwei	TH10R	c00286000EE1	2026/1/29	1 Year
Test software	TONSCEND	JS36-RSE	5.0.0	N/A	N/A
Radiated Spurious Emission in 10m EMI Chamber					
10m Anechoic Chamber	Tai He Mao Rui	10m-SAC	N/A	2024/01/25	3 Year
Loop antenna (9kHz-30MHz)	SCHWARZBEC K	FMZB1519-60 D	00058	2024/11/05	3 Year
EMI Test Receiver	R&S	ESR7	101322	2026/01/25	1 Year
Temperature and humidity recorder	HuaHanWei	THP40W-E	c0222020002F	2026/01/29	1 Year
Test Software	TONSCEND	JS36-RSE	5.0.0	N/A	N/A
Power Line Conducted Emissions Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Shielding Room 1	Tai He Mao Rui	N/A	N/A	2024/01/25	3 Year
EMI Test Receiver	Rohde &	ESCI3	101705	2026/01/25	1 Year

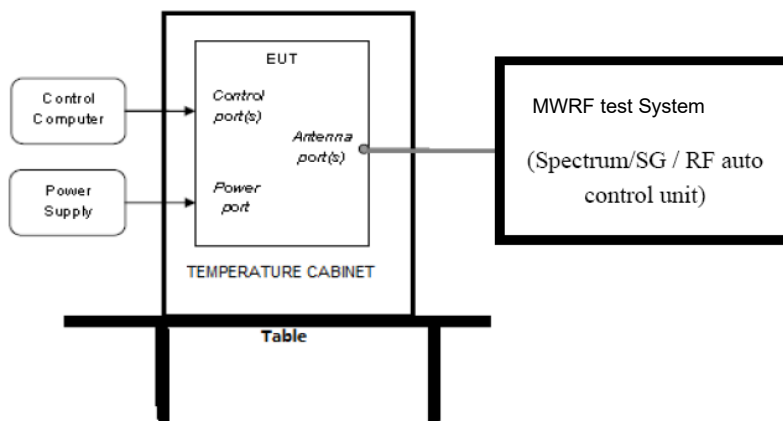
	Schwarz				
Two-Line V-Network	Rohde & Schwarz	ENV216	101064	2026/01/25	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102704	2026/01/25	1 Year
Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002 E	2026/01/25	1 Year
Test software	TONSCEND	JS32-CE	5.0.0	N/A	N/A

4 20dB Bandwidth

4.1. General Information

Test date	2026-05-25	Test engineer	Jimmy Qu	
Climate condition	Ambient temperature	21.6℃	Relative humidity	64.9%
	Atmospheric pressure	101.8kPa		
Test place	EMC Room 1#			

4.2. Block diagram of test setup



4.3. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

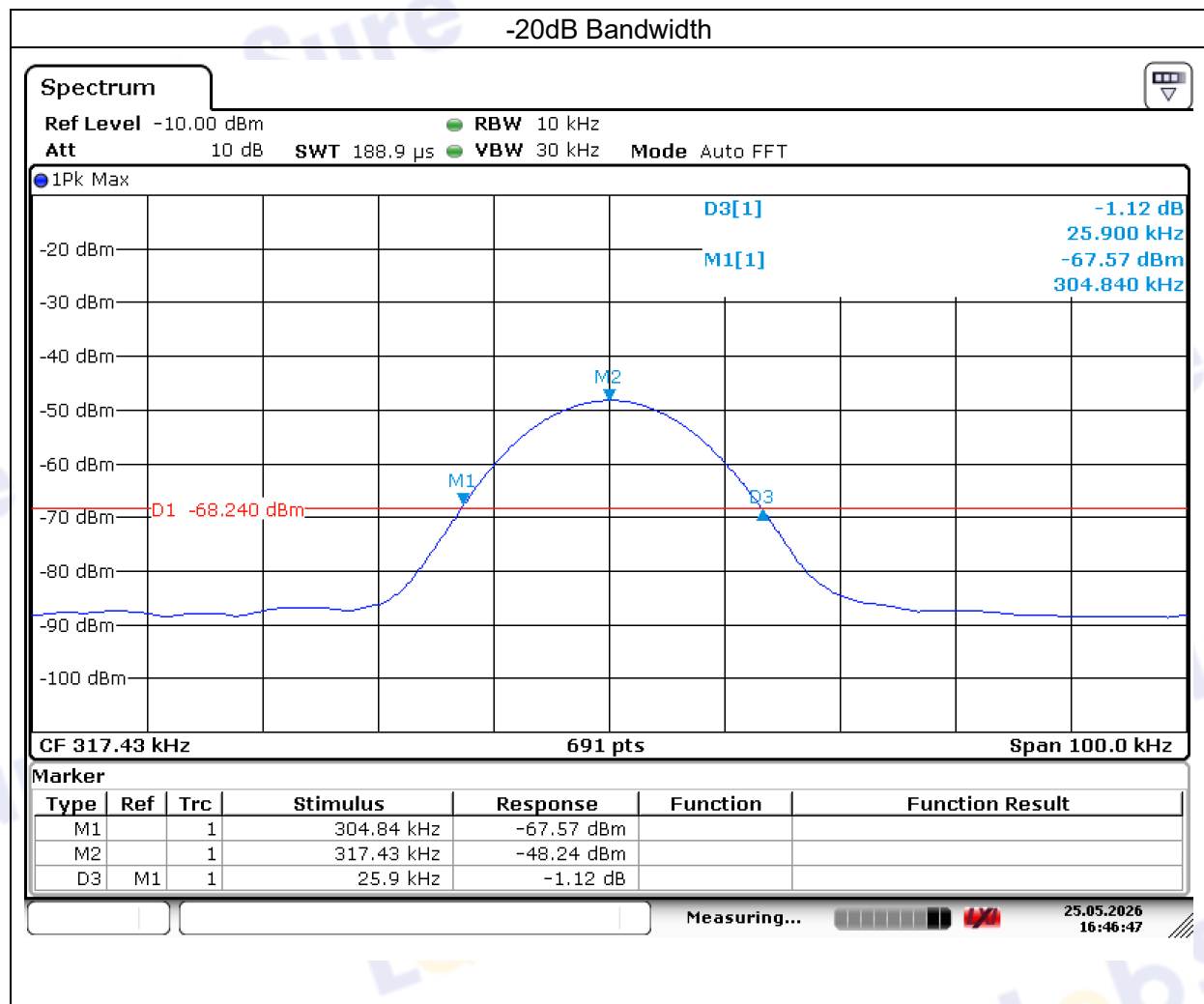
4.4. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10 kHz RBW and 30 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.5. Test Result

Freq. (kHz)	20dB bandwidth Result (kHz)	Conclusion
317	25.9	PASS

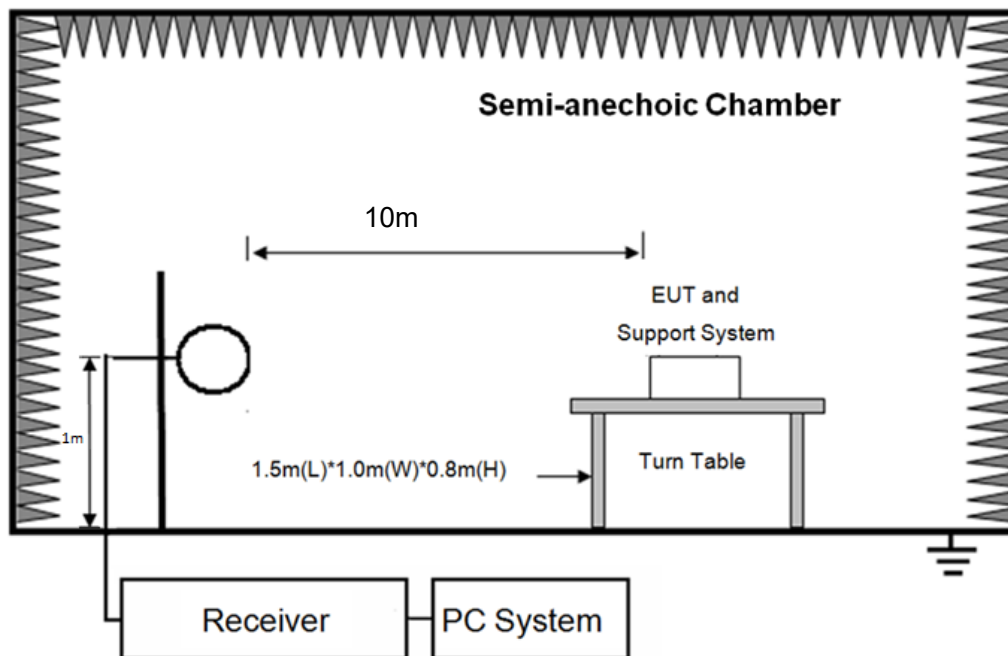
4.6. Test graphs



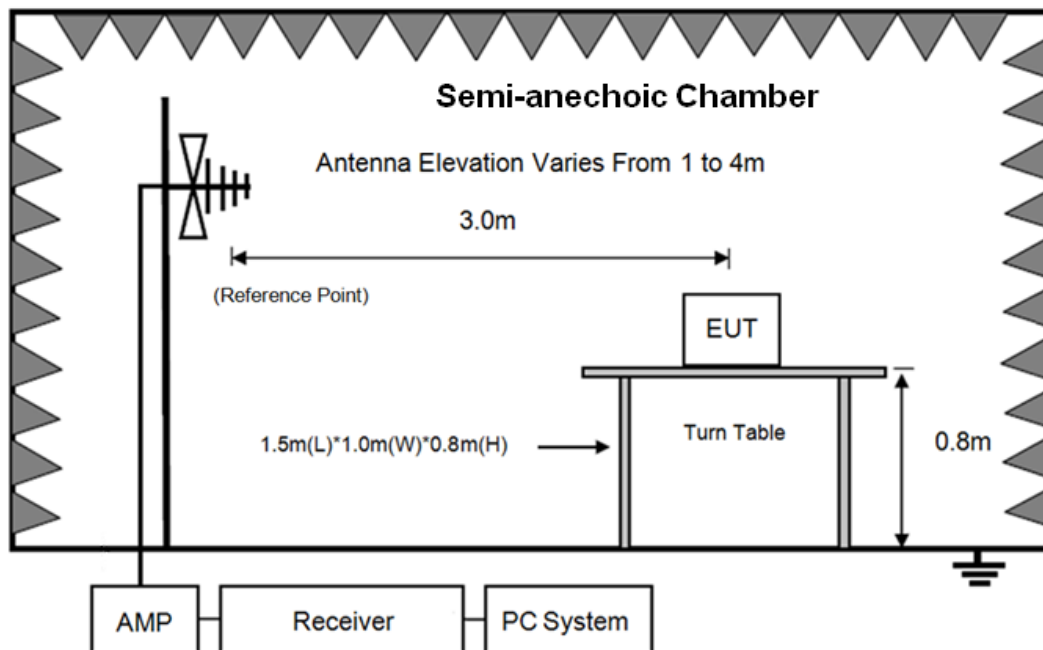
5 Radiated Spurious Emission

5.1. Block diagram of test setup

Test Setup Diagram for 9 kHz~30MHz



Test Setup Diagram for 30MHz~1GHz



5.2. Limit

FCC 15.205 Restricted frequency band:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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	/	/	/

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

FCC 15.209 Limit:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{10\text{m}}(\text{dBuV/m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 40\text{Log}(300\text{m}/10\text{m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 59.08$$

$$\text{Limit}_{10\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/10\text{m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 19.08$$

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 40\text{Log}(300\text{m}/3\text{m}) = \text{Limit}_{300\text{m}}(\text{dBuV/m}) + 80$$

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40$$

5.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Test antenna was located 10m or 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	10m
30MHz-1GHz	Trilog Broadband Antenna	3m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 1GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

- (b) Change work frequency or channel of device if practicable.

- (c) Change modulation type of device if practicable.

- (d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions. Spectrum frequency from 9kHz to 1GHz (tenth harmonic of fundamental frequency) was investigated.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission.

Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

- (5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz, 110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

- (6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver

with below RBW.

Frequency band	RBW
9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

5.4. Test result

For 9kHz~30MHz

Test date	2026-04-28	Test engineer	Caleb Fu
Climate condition	Ambient temperature	20.0°C	Relative humidity 61.8%
	Atmospheric pressure	101.7kPa	
Test place	3m chamber		

Test Mode	Channel	Test Result (dBμV/m)	Verdict
WPT	317kHz	<Limit	PASS

Remark: Remark: Pre-test when EUT is arranged at X axis, Y axis, Z axis, and worst-case setup X axis is recorded in the report.

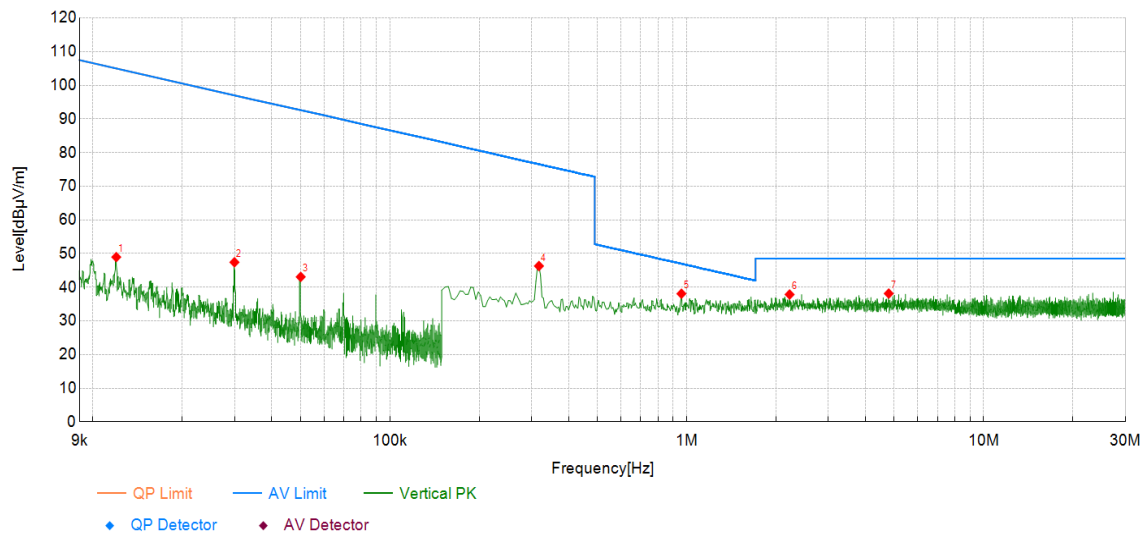
For 30MHz~1GHz

Test date	2026-04-28	Test engineer	Caleb Fu
Climate condition	Ambient temperature	20.0°C	Relative humidity 61.8%
	Atmospheric pressure	101.7kPa	
Test place	3m chamber		

Test Mode	Channel	Test Result (dBμV/m)	Verdict
WPT	317kHz	<Limit	PASS

Note1: All the emissions except fundamental emission from 9 kHz to 1 GHz were comply with 15.209 limit.

9kHz to 30MHz



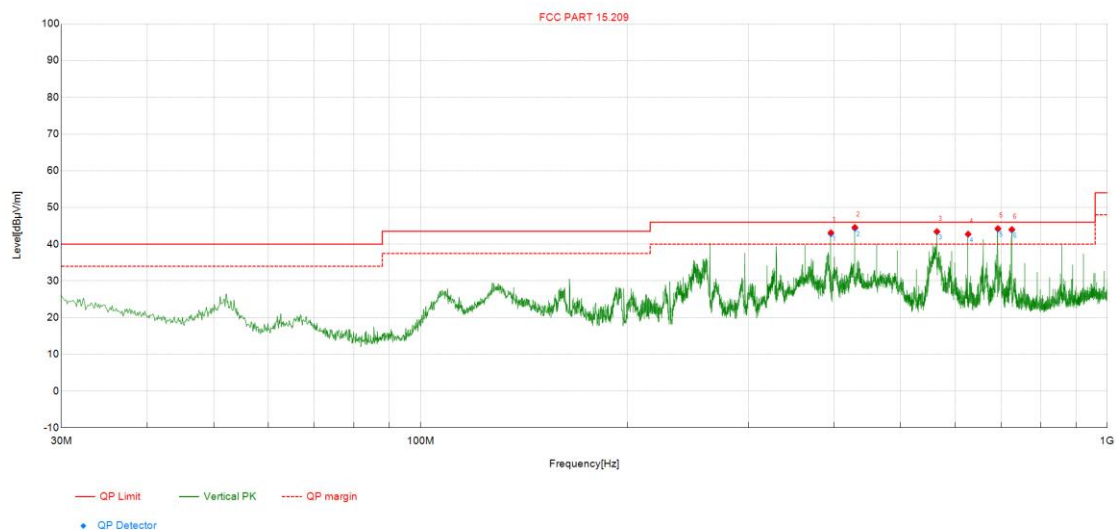
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	0.012	28.52	48.95	20.43	105.00	56.05	PK	V	PASS
2	0.03	27.49	47.42	19.93	97.01	49.59	PK	V	PASS
3	0.05	23.33	43.07	19.74	92.63	49.56	PK	V	PASS
4	0.317	26.80	46.30	19.50	76.56	30.26	PK	V	Fundamental
5	0.96	18.56	38.07	19.51	46.99	8.92	PK	V	PASS
6	2.22	18.27	37.83	19.56	48.50	10.67	PK	V	PASS
7	4.79	18.49	38.12	19.63	48.50	10.38	PK	V	PASS

Note:(1) Level=Reading+Factor

(2) Margin=Limit-Level

(3) If the PK test value meets the limit requirements, then the QP value also meets the limit requirements too.

30MHz to 1GHz



Suspected Data List

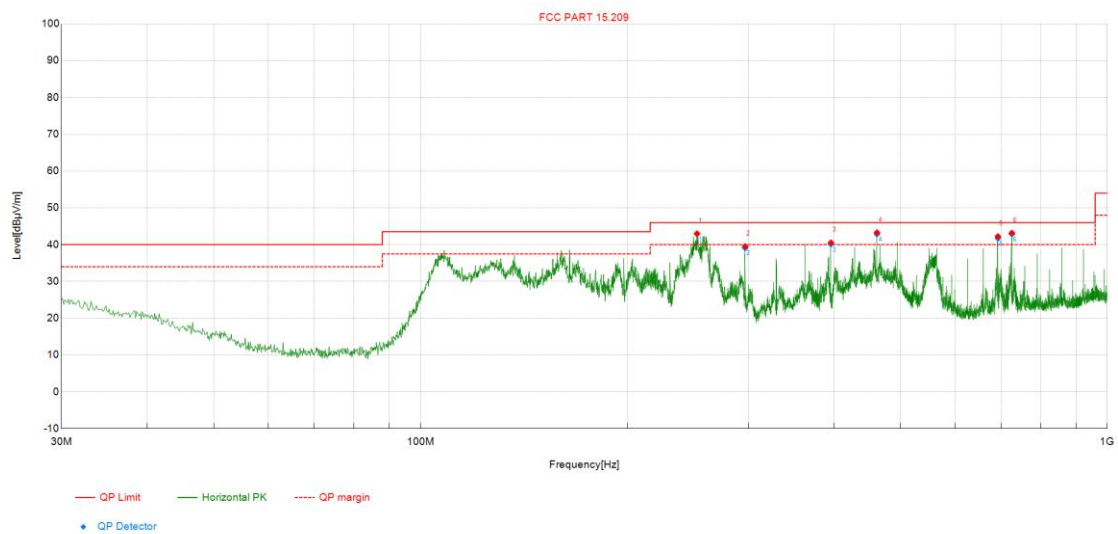
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	395.93	60.54	43.14	-17.40	46.00	2.86	PK	V	PASS
2	429.03	61.33	44.60	-16.73	46.00	1.40	PK	V	PASS
3	564.83	56.01	43.46	-12.55	46.00	2.54	PK	V	PASS
4	627.04	55.22	42.78	-12.44	46.00	3.22	PK	V	PASS
5	693.00	55.92	44.29	-11.63	46.00	1.71	PK	V	PASS
6	726.10	54.61	44.04	-10.57	46.00	1.96	PK	V	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Pol	Verdict
1	395.93	-17.40	60.23	42.83	46.00	3.17	V	PASS
2	429.03	-16.73	61.02	44.29	46.00	1.71	V	PASS
3	564.83	-12.55	55.88	43.33	46.00	2.67	V	PASS
4	627.04	-12.44	55.09	42.65	46.00	3.35	V	PASS
5	693.00	-11.63	55.7	44.07	46.00	1.93	V	PASS
6	726.10	-10.57	54.39	43.82	46.00	2.18	V	PASS

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	252.74	64.26	43.00	-21.26	46.00	3.00	PK	H	PASS
2	296.99	60.17	39.52	-20.65	46.00	6.48	PK	H	PASS
3	395.93	57.94	40.54	-17.40	46.00	5.46	PK	H	PASS
4	462.01	59.25	43.28	-15.97	46.00	2.72	PK	H	PASS
5	693.00	53.86	42.23	-11.63	46.00	3.77	PK	H	PASS
6	726.10	53.73	43.16	-10.57	46.00	2.84	PK	H	PASS

Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Pol	Verdict
1	252.74	-21.26	64.18	42.92	46.00	3.08	H	PASS
2	296.99	-20.65	59.77	39.12	46.00	6.88	H	PASS
3	395.93	-17.40	57.54	40.14	46.00	5.86	H	PASS
4	462.01	-15.97	58.85	42.88	46.00	3.12	H	PASS
5	693.00	-11.63	53.38	41.75	46.00	4.25	H	PASS
6	726.10	-10.57	53.43	42.86	46.00	3.14	H	PASS

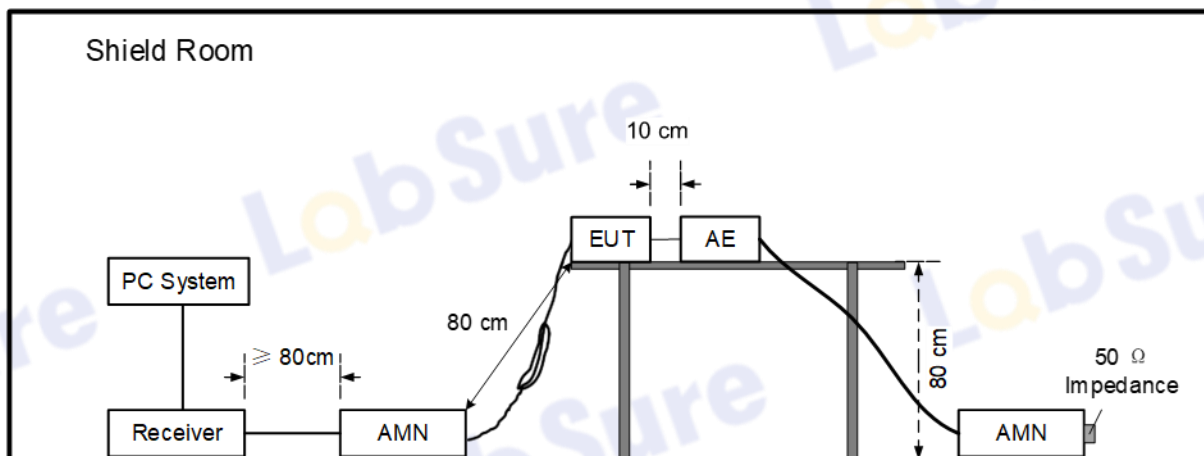
Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

6 Power Line Conducted Emission

6.1. General Information

Test date	N/A	Test engineer	/	
Climate condition	Ambient temperature	/	Relative humidity	/
	Atmospheric pressure	/		
Test place	/			

6.2. Block diagram of test setup



6.3. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

6.4. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

6.5. Test Result

Not applicable, The DC 33.6V battery needs to be taken out of the battery box of EUT for charging, and the EUT does not work when battery is charging.

7 Antenna Requirements

7.1. Limit

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2. Result

The antenna used for this product is inductive loop coil antenna and no antenna other than that furnished by the responsible party shall be used with the device. The maximum antenna gain is 0 dBi.

8 Test setup photograph

See the Appendix Test Setup Photos

9 Photos of the EUT

See the Appendix External EUT Photos and Appendix Internal EUT Photos

END OF REPORT