



FCC Part 15B Test Report

FCC ID: 2BTCMYCL-ACW01

Applicant: Shenzhen Yuanchuangli Electronic Co., Ltd.

Address: 4th Floor, Building D, Xinxiong Industrial Park, Bao'an District, Shenzhen City, China

Manufacturer: Shenzhen Yuanchuangli Electronic Co., Ltd.

Address: 4th Floor, Building D, Xinxiong Industrial Park, Bao'an District, Shenzhen City, China

EUT: AC EV Charger

Trade Mark: N/A

Model Number: YCL-ACW01, YCL-ACW(01~10)

Date of Receipt: Nov. 01, 2025

Test Date: Nov. 01, 2025 - Nov. 18, 2025

Date of Report: Nov. 18, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Applicable Standards: FCC 47 CFR Part 15 Subpart B: 2022
ANSI C63.4:2014

Test Result: Pass

Report Number: DL-202511230198E

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 Subpart B			
Standard Section	Test Item	Judgment	Remark
§15.107	Power Line Conducted Emission Test	PASS	
§15.109	Radiated Emission Test (Below 1 GHz)	PASS	
§15.109	Radiated Emission Test (Above 1GHz)	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.56\text{dB}$
2	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
3	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
4	Temperature	$\pm 0.5^{\circ}\text{C}$
5	Humidity	$\pm 2\%$

1.2 TEST FACILITY

Shenzhen DL Testing Technology Co., Ltd.

Add.: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: CN0118



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	AC EV Charger
Trademark:	N/A
Model No.:	YCL-ACW01
Model Difference:	YCL-ACW(01~10) All models have same circuits diagram, PCB Layout, construction and rated power, only different is the model name.
Sample No.:	DL-202511230198#
Power Supply:	Rated Input: 120V1240V AC,50160Hz,6A-40A Rated Output: 120V1240V AC,50/60Hz,6A-40A

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.

2.2 DESCRIPTION OF TEST MODE

Pretest Mode	Description
Mode 1	On(The product is working normally)

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

For Mode 1 Block Diagram of Test Setup





2.4 DESCRIPTION OF SUPPORT UNITS

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.	Series No.	Note
1	Output load box	TS475	/	AE
2	/	/	/	/

Item	Shielded Type	Ferrite Core	Length	Note
1	AC power cord	No	1m	/

Note: For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Dec. 06, 2024	Dec. 05, 2025
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Dec. 06, 2024	Dec. 05, 2025
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Dec. 06, 2024	Dec. 05, 2025
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Dec. 06, 2024	Dec. 05, 2025
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Dec. 06, 2024	Dec. 05, 2025
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Dec. 06, 2024	Dec. 05, 2025
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Dec. 06, 2024	Dec. 05, 2025
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Dec. 06, 2024	Dec. 05, 2025
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Dec. 06, 2024	Dec. 05, 2025
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Dec. 06, 2024	Dec. 05, 2025
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Dec. 06, 2024	Dec. 05, 2025
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Dec. 06, 2024	Dec. 05, 2025
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Dec. 06, 2024	Dec. 05, 2025
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Dec. 06, 2024	Dec. 05, 2025

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Dec. 06, 2024	Dec. 05, 2025
2	EMI Receiver	R&S	ESR	101421	Dec. 06, 2024	Dec. 05, 2025
3	LISN	Schwarzbeck	NNLK 8128	5089	Dec. 06, 2024	Dec. 05, 2025
4	843 Cable 1#	ChengYu	CE Cable	001	Dec. 06, 2024	Dec. 05, 2025

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ EMC	FA-03A2



3. POWER LINE CONDUCTED EMISSION TEST

3.1 CONDUCTED EMISSION Limits (FREQUENCY RANGE 150KHZ-30MHZ)

☒ Limits for conducted emission at the AC mains power ports of Class A equipment

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	79.0	66.0	FCC
0.50 -30.0	73.0	60.0	FCC

☐ Limits for conducted emission at the AC mains power ports of Class B equipment

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

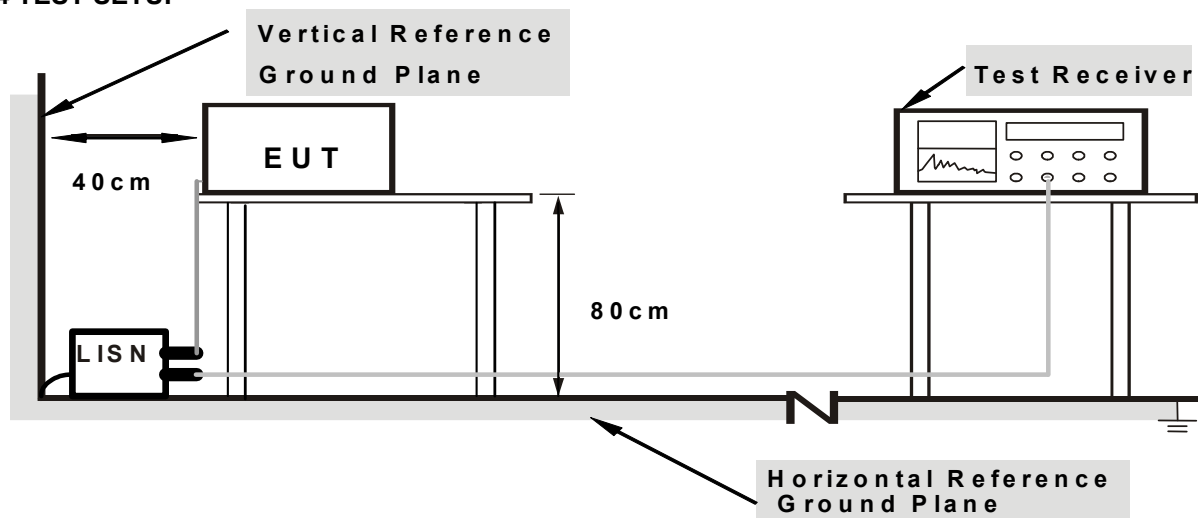
3.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.5 EUT OPERATING CONDITIONS

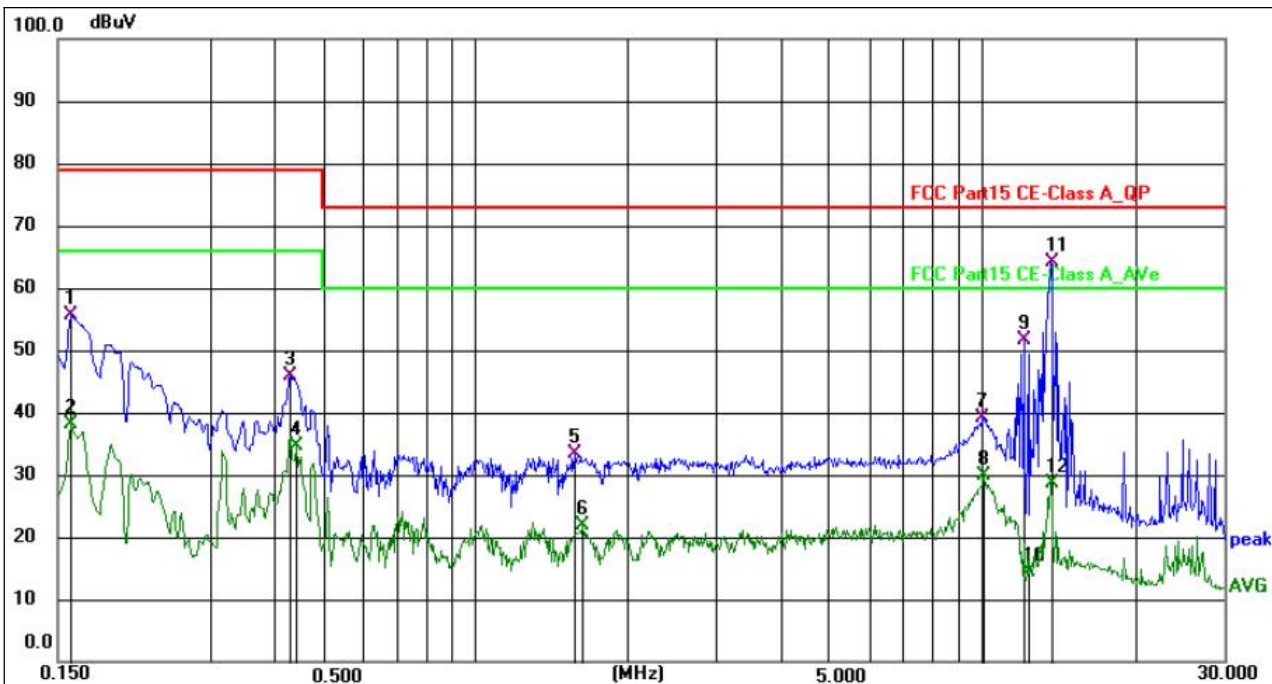
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.6 TEST RESULTS

Note: 1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported.
2. All modes were tested at Low, Middle, and High channel, only the worst result of GFSK Low Channel was reported.



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage:	AC 120V/60Hz		
Test Mode:	Mode 1		



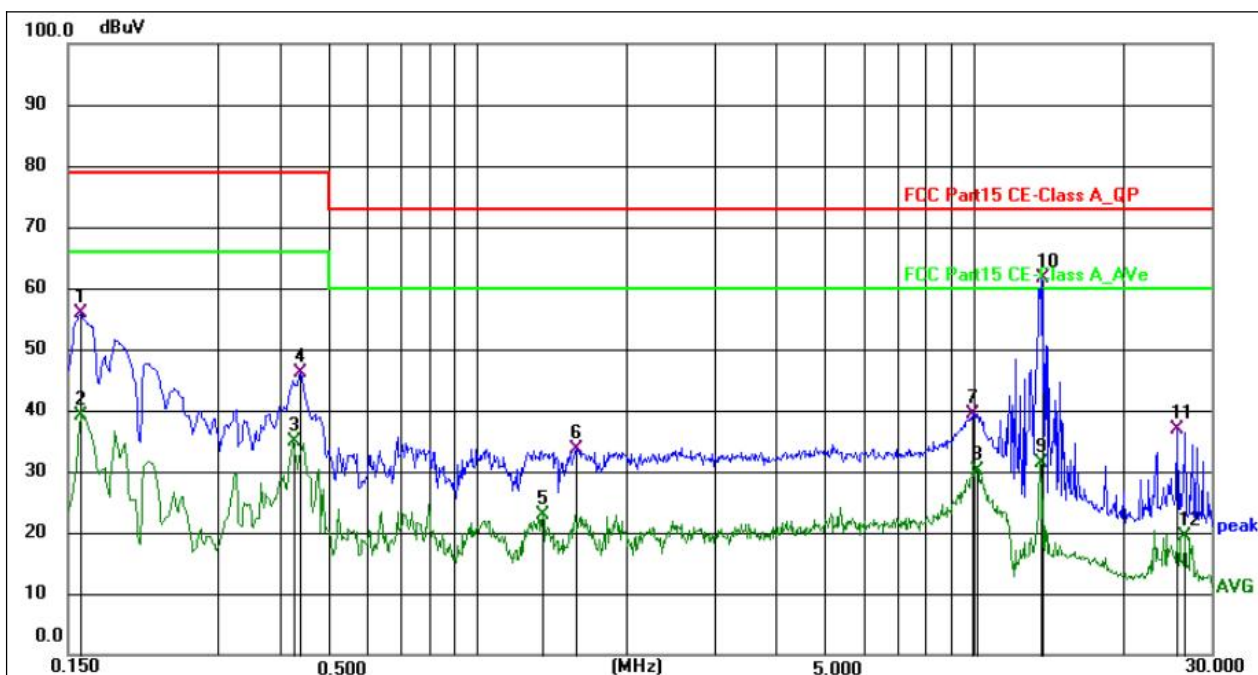
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	45.16	10.57	55.73	79.00	-23.27	QP
2	0.1590	27.51	10.57	38.08	66.00	-27.92	AVG
3	0.4289	35.27	10.63	45.90	79.00	-33.10	QP
4	0.4425	23.89	10.63	34.52	66.00	-31.48	AVG
5	1.5720	22.74	10.67	33.41	73.00	-39.59	QP
6	1.6305	11.15	10.68	21.83	60.00	-38.17	AVG
7	9.9770	28.37	10.83	39.20	73.00	-33.80	QP
8	10.0945	18.97	10.83	29.80	60.00	-30.20	AVG
9	12.0745	40.82	10.88	51.70	73.00	-21.30	QP
10	12.2814	3.37	10.89	14.26	60.00	-45.74	AVG
11 *	13.6944	53.31	10.91	64.22	73.00	-8.78	QP
12	13.6944	17.67	10.91	28.58	60.00	-31.42	AVG



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage:	AC 120V/60Hz		
Test Mode:	Mode 1		



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	45.26	10.57	55.83	79.00	-23.17	QP
2	0.1590	28.65	10.57	39.22	66.00	-26.78	AVG
3	0.4245	24.34	10.63	34.97	66.00	-31.03	AVG
4	0.4380	35.53	10.63	46.16	79.00	-32.84	QP
5	1.3560	12.33	10.65	22.98	60.00	-37.02	AVG
6	1.5809	23.02	10.67	33.69	73.00	-39.31	QP
7	9.9184	28.57	10.83	39.40	73.00	-33.60	QP
8	10.0765	19.42	10.83	30.25	60.00	-29.75	AVG
9	13.5865	20.40	10.91	31.31	60.00	-28.69	AVG
10 *	13.6945	50.65	10.91	61.56	73.00	-11.44	QP
11	25.6915	25.72	11.07	36.79	73.00	-36.21	QP
12	26.6095	8.34	11.05	19.39	60.00	-40.61	AVG



4. RADIATED EMISSION TEST

4.1 RADIATED EMISSION LIMITS (FREQUENCY RANGE 9KHZ-1000MHZ)

☒ Limit for radiated emissions at frequencies up to 1 GHz for class A equipment

Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT	
			$\mu\text{V/m}$	(dB $\mu\text{V/m}$)
	30 ~ 88	3	300	49.5
	88 ~ 216	3	500	54.0
	216 ~ 960	3	700	56.9
	Above 960	3	1000	60.0

☐ Limit for radiated emissions at frequencies up to 1 GHz for class B equipment

Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT	
			$\mu\text{V/m}$	(dB $\mu\text{V/m}$)
	30 ~ 88	3	100	40.0
	88 ~ 216	3	150	43.5
	216 ~ 960	3	200	46.0
	Above 960	3	501	54.0

Remark: (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

☒ Limit for radiated emissions at frequencies above 1 GHz for class A equipment

FREQUENCY (MHz)	Distance (Meters)	Limit (dBuV/m) (at 3M)	
		PEAK	AVERAGE
Above 1000	3	80	60

☐ Limit for radiated emissions at frequencies above 1 GHz for class A equipment

FREQUENCY (MHz)	Distance (Meters)	Limit (dBuV/m) (at 3M)	
		PEAK	AVERAGE
Above 1000	3	74	54

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	25GHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

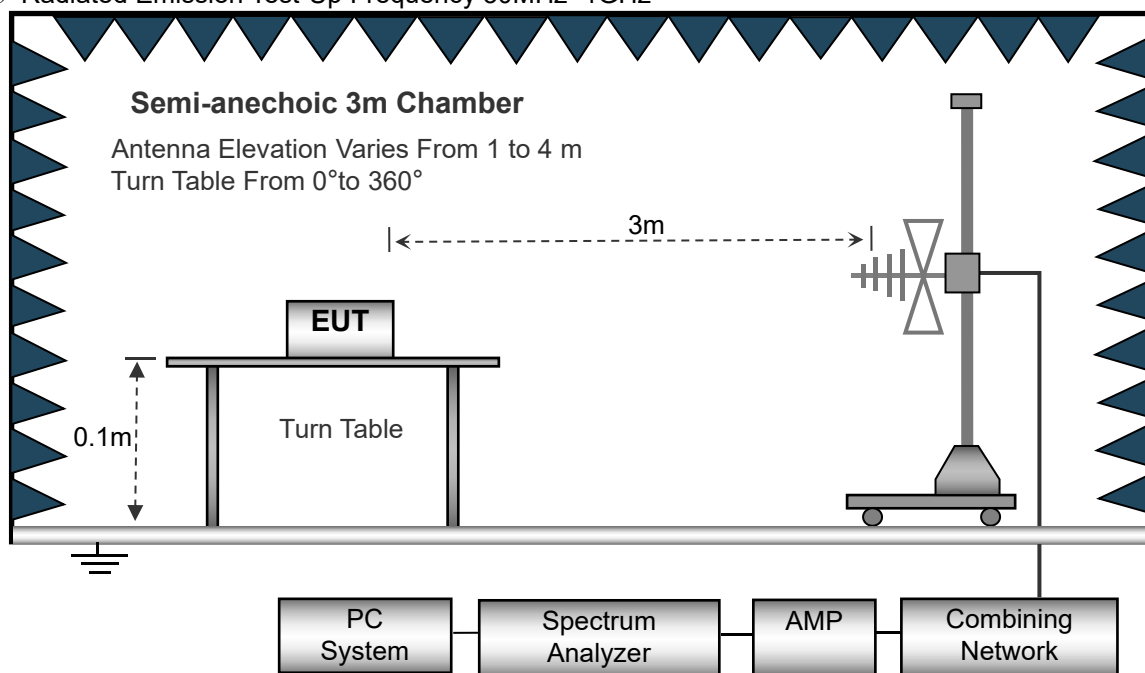
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 DEVIATION FROM TEST STANDARD

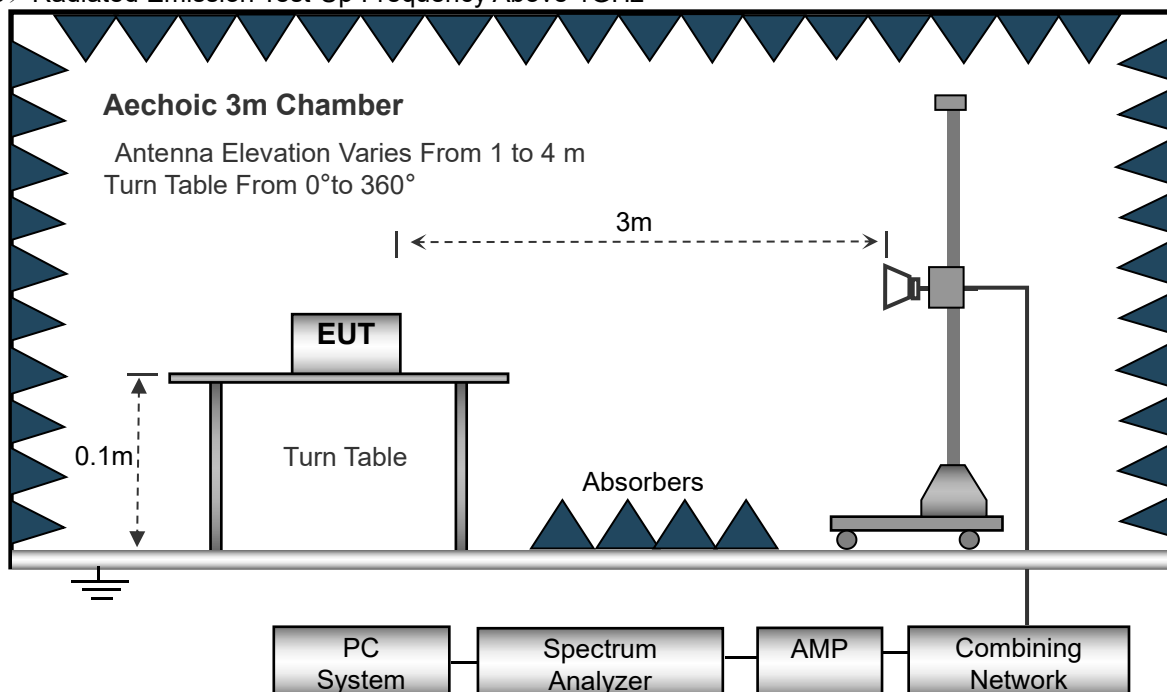
No deviation

4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz



4.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

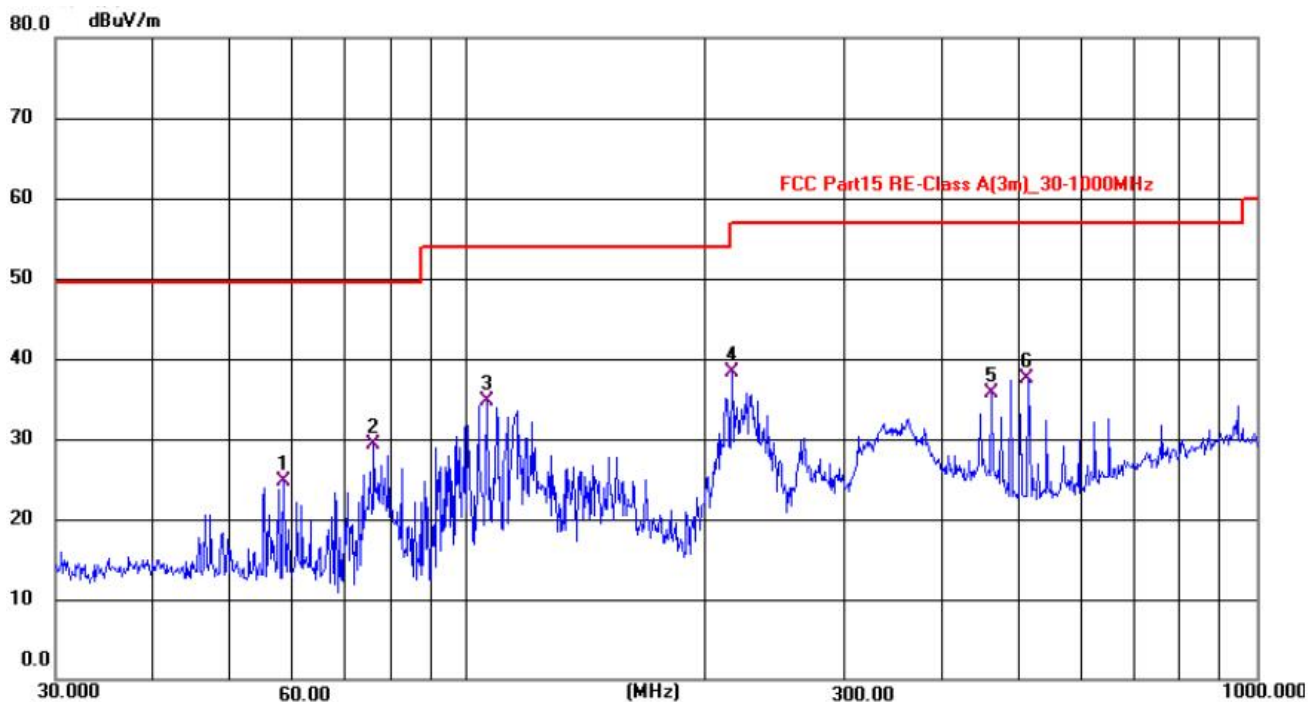
Note: 1. All modes were tested at Low, Middle, and High channel, only the worst result of GFSK Low Channel was reported.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.



Below 1GHz Test Results

Temperature:	22℃	Relative Humidity:	53%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	Model 1		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	58.4587	40.03	-15.36	24.67	49.50	-24.83	QP
2	76.1240	47.75	-18.44	29.31	49.50	-20.19	QP
3	105.8455	51.65	-17.01	34.64	54.00	-19.36	QP
4 *	216.5929	55.18	-16.85	38.33	56.90	-18.57	QP
5	461.0504	45.76	-10.01	35.75	56.90	-21.15	QP
6	515.3469	46.30	-8.84	37.46	56.90	-19.44	QP

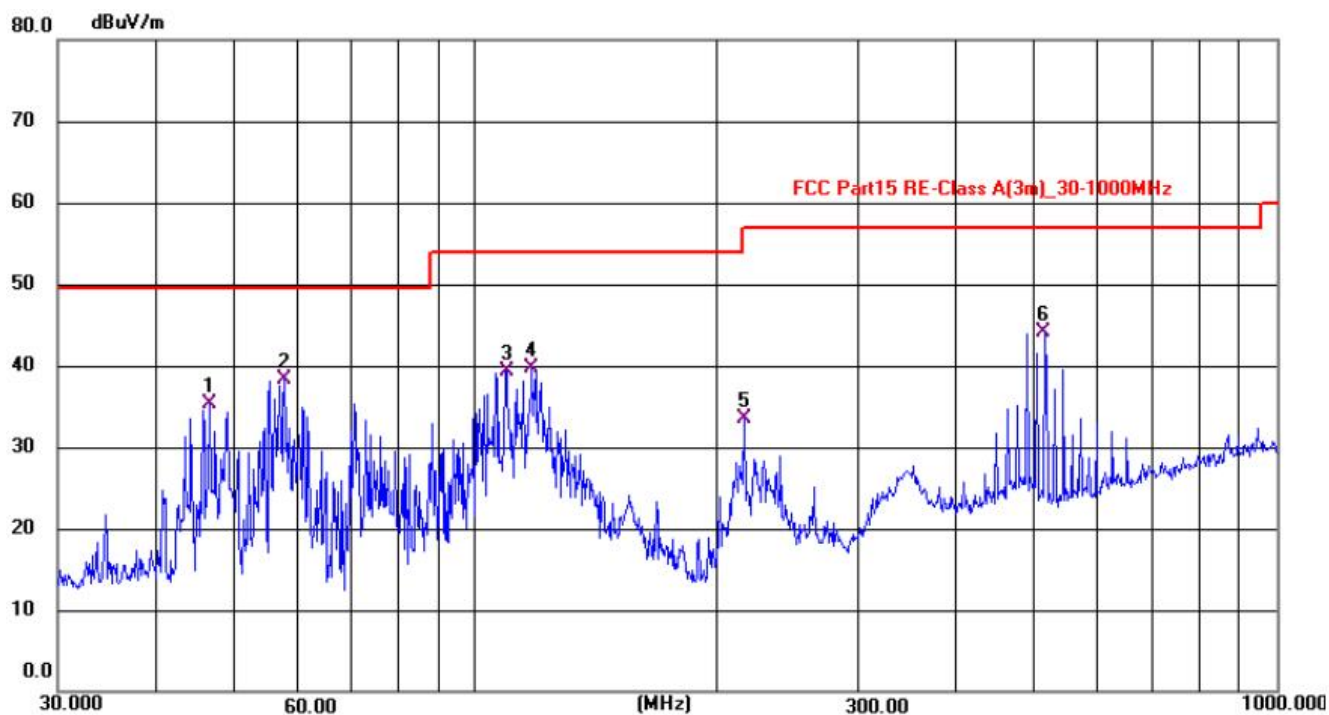
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;



Temperature:	22℃	Relative Humidity:	53%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	Model 1		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	46.4704	49.94	-14.71	35.23	49.50	-14.27	QP
2 *	57.7253	53.75	-15.35	38.40	49.50	-11.10	QP
3	109.0286	56.17	-16.77	39.40	54.00	-14.60	QP
4	117.7312	55.33	-15.72	39.61	54.00	-14.39	QP
5	216.4410	50.27	-16.86	33.41	56.90	-23.49	QP
6	515.3469	53.03	-8.84	44.19	56.90	-12.71	QP

Remark:

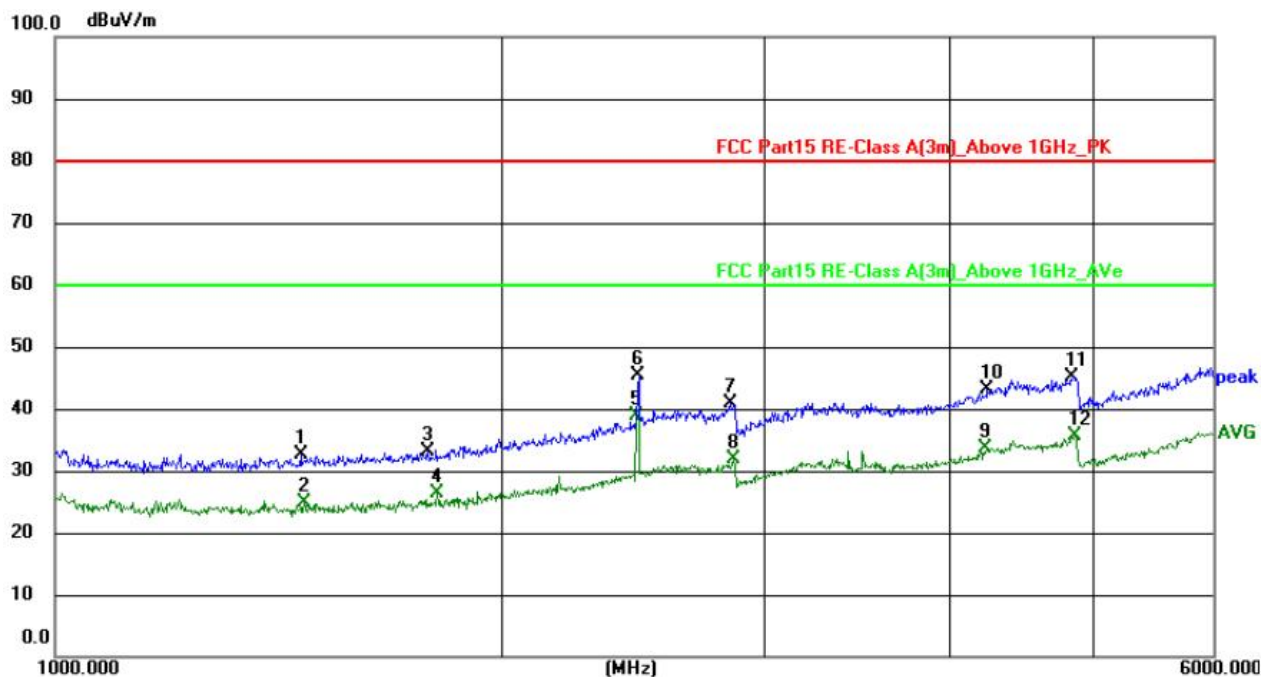
Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;



Above 1GHz Test Results

Temperature:	22℃	Relative Humidity:	53%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		
Test Mode :	Model 1		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1466.136	39.98	-7.40	32.58	80.00	-47.42	peak
2	1472.454	32.28	-7.40	24.88	60.00	-35.12	AVG
3	1784.586	40.08	-7.01	33.07	80.00	-46.93	peak
4	1808.243	33.41	-6.92	26.49	60.00	-33.51	AVG
5 *	2466.887	43.25	-4.38	38.87	60.00	-21.13	AVG
6	2468.877	49.77	-4.37	45.40	80.00	-34.60	peak
7	2847.602	43.76	-2.98	40.78	80.00	-39.22	peak
8	2859.617	34.74	-2.91	31.83	60.00	-28.17	AVG
9	4229.558	33.47	0.09	33.56	60.00	-26.44	AVG
10	4243.982	43.11	0.13	43.24	80.00	-36.76	peak
11	4839.628	43.59	1.43	45.02	80.00	-34.98	peak
12	4857.873	34.09	1.49	35.58	60.00	-24.42	AVG

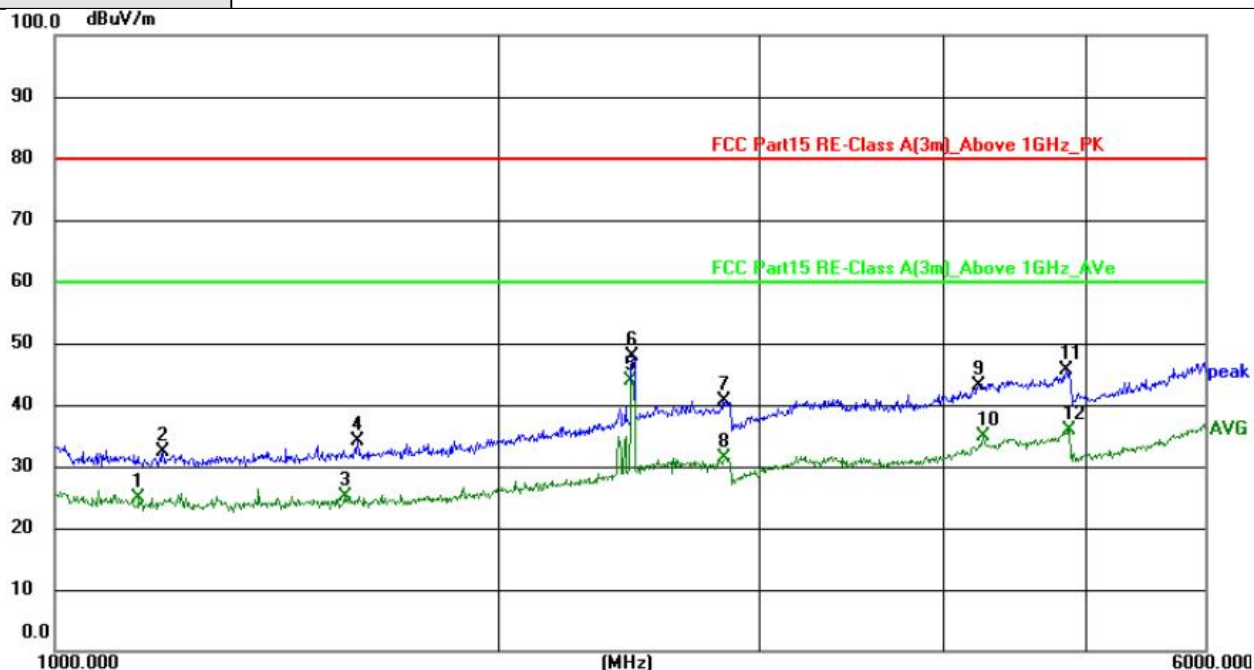
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;



Temperature:	22℃	Relative Humidity:	53%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		
Test Mode :	Model 1		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1140.555	32.56	-7.61	24.95	60.00	-35.05	AVG
2	1186.200	39.91	-7.56	32.35	80.00	-47.65	peak
3	1573.379	32.51	-7.36	25.15	60.00	-34.85	AVG
4	1603.691	41.52	-7.38	34.14	80.00	-45.86	peak
5 *	2463.133	48.27	-4.40	43.87	60.00	-16.13	AVG
6	2463.795	52.21	-4.39	47.82	80.00	-32.18	peak
7	2845.561	43.59	-2.99	40.60	80.00	-39.40	peak
8	2845.561	34.36	-2.99	31.37	60.00	-28.63	AVG
9	4221.609	43.00	0.07	43.07	80.00	-36.93	peak
10	4252.736	34.63	0.15	34.78	60.00	-25.22	AVG
11	4843.532	44.18	1.44	45.62	80.00	-34.38	peak
12	4861.791	34.46	1.49	35.95	60.00	-24.05	AVG

Remark:

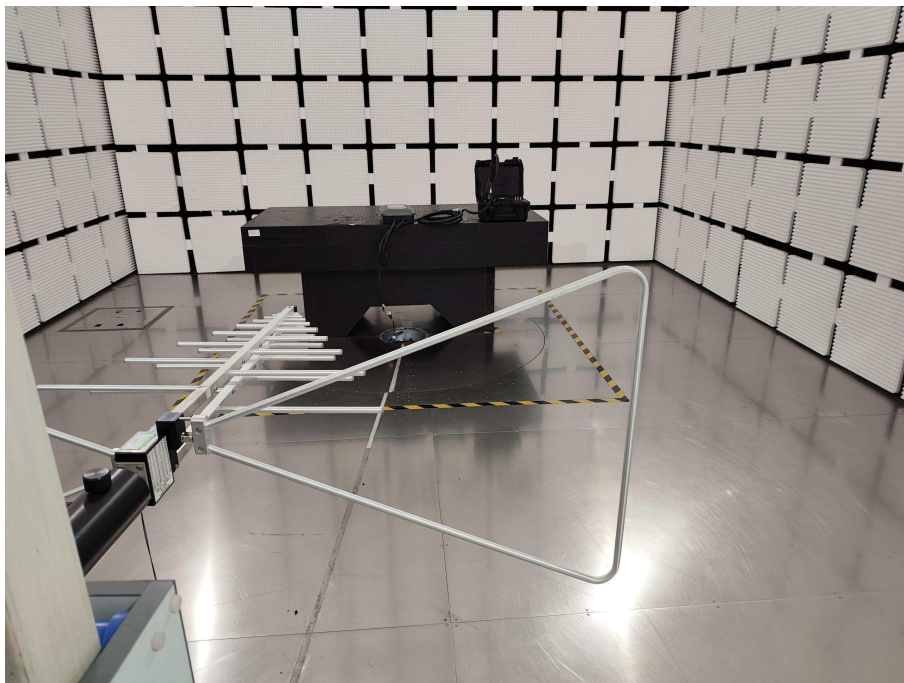
Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Limit – Level;

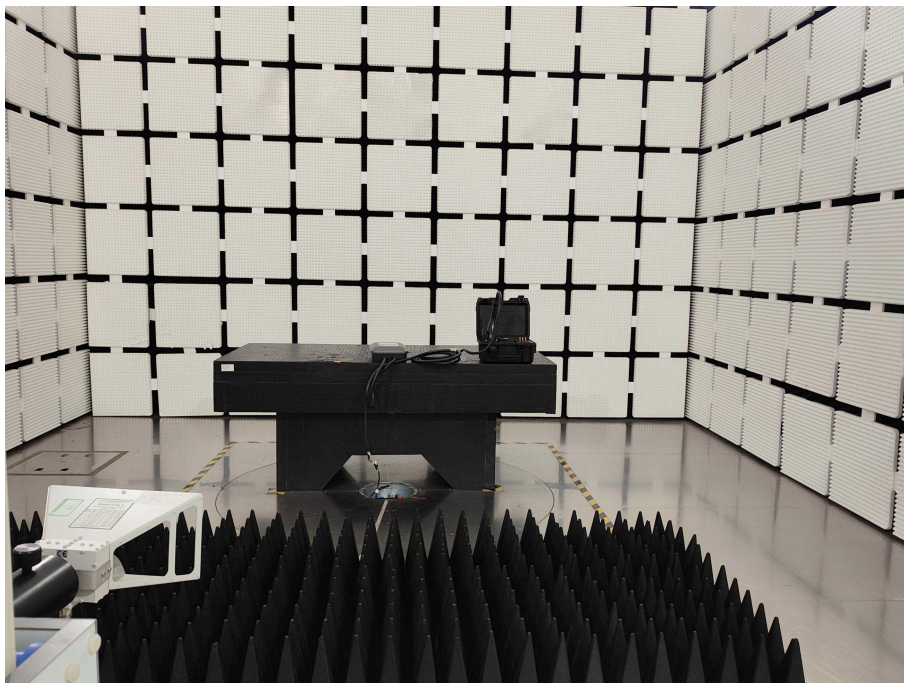


5. TEST SEUUP PHOTO

Radiated Emission (Below 1G)



Radiated Emission (Above 1G)





Conducted Measurement Photos



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