FCC SDoC Test Report

Issued date: Jul. 03, 2026

Project No.: 26Q042302

Product : Ultra-Compact Embedded Sys.

Model : TGS-2000

Series Model : TGS-2XXXXXXXXXX (""X"" can be 0-9, A-Z or blank)

Applicant : Vecow Co., Ltd

Address : 3F, No. 10, Jiankang Rd., Zhonghe Dist., New Taipei City 23586, Taiwan

Report No: WD-EF-R-260128-A0

According to

47 CFR FCC Part 15, Subpart B, Class A ANSI C63.4: 2014
ANSI C63.4a: 2017

Authorized Signatory : / Ken Huang

Wendell Industrial Co., Ltd
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History of this test report

Report No.	Issue date	Description
WD-EF-R-260128-A0	Jul. 03, 2026	Initial Issue

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.

History of supplementary report

Report No.	Issue date	Description
WD-EF-R-260128-A0	Jul. 03, 2026	Original report

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.

1 Certification

Product:	Ultra-Compact Embedded Sys.
Brand Name:	Vecow
Model:	TGS-2000
Series Model:	TGS-2XXXXXXXXXX (""X"" can be 0-9, A-Z or blank)
Applicant:	Vecow Co., Ltd
Tested:	Jun. 04 ~ Jun. 18, 2026
Standard:	47 CFR FCC Part 15, Subpart B, Class A
	ANSI C63.4: 2014
	ANSI C63.4a: 2017

The above equipment (Model: TGS-2000) has been tested by **Wendell EMC & RF Laboratory**, and found compliance with the requirement of the above standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.

1.1 Summary of Result

The EUT has been tested according to the following specifications:

Emission			
Standard	**Test Item**	**Result**	**Remark**
47 CFR FCC Part 15, Subpart B	Conducted disturbance at mains power ports	Pass	Meets the requirements
	Radiated disturbance	Pass	Meets the requirements

Note: Test record contained in the referenced test report relate only to the EUT sample and test item.

2 Laboratory Information

2.1 Measurement Facility

Conducted disturbance at main power port test

W01: 5F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan (R.O.C)

Conducted disturbance at main power port and Radiated disturbance (9*6*6 Chamber) test

W08: No.119, Wugong 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C)

Conducted disturbance at main power port and Radiated disturbance (10m Chamber) test

W09: No.26, Qinghe St., Tucheng Dist., New Taipei City 236032, Taiwan (R.O.C)

ACCREDITATIONS

The laboratories are accredited and approved by the TAF according to ISO/IEC 17025.

2.2 Measurement Uncertainty

The measurement instrumentation uncertainty is evaluated according to CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Wendell EMC & RF Laboratory U_{lab} is less than U_{cispr}, therefore compliance or non-compliance with a disturbance limit shall be determined in the following manner.

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

Please note that the measurement uncertainty (U_{lab}) is provided for informational purpose only and is not used in determining the Pass/Fail results.

2.2.1 Conducted Emission Measurement

Test Site	Frequency Range	dB (U_{lab})
W01-CE	150 kHz ~ 30 MHz / Using LISN	2.84
W08-CE	150 kHz ~ 30 MHz / Using LISN	2.72

Test Site	Frequency Range	dB (U_{lab})
W09-10m-1	9 kHz ~ 30 MHz / Using LISN	2.49
W09-CE-1	9 kHz ~ 30 MHz / Using LISN	3.07

2.2.2 Radiated Emission Measurement

Test Site	Frequency Range	Ant	dB (U_{lab})
W08-966-2	30 MHz ~ 200 MHz	V	4.08
	30 MHz ~ 200 MHz	H	3.27
	200 MHz ~ 1000 MHz	V	5.06
	200 MHz ~ 1000 MHz	H	3.68
	1 GHz ~ 6 GHz	V	4.58
	1 GHz ~ 6 GHz	H	4.49
	6 GHz ~ 18 GHz	V	4.55
	6 GHz ~ 18 GHz	H	4.74
	18 GHz ~ 40 GHz	V	4.42
	18 GHz ~ 40 GHz	H	4.42

Test Site	Frequency Range	Ant	dB (U_{lab})
W09-10m-1	30 MHz ~ 200 MHz	V	4.00
	30 MHz ~ 200 MHz	H	3.51
	200 MHz ~ 1000 MHz	V	4.16
	200 MHz ~ 1000 MHz	H	3.39
	1 GHz ~ 6 GHz	V	4.40
	1 GHz ~ 6 GHz	H	4.28
	6 GHz ~ 18 GHz	V	4.82
	6 GHz ~ 18 GHz	H	4.34
	18 GHz ~ 40 GHz	V	5.18
	18 GHz ~ 40 GHz	H	5.05

3 General Information

3.1 Description of Equipment Under Test

Product	Ultra-Compact Embedded Sys.
Brand	Vecow
Model	TGS-2000
Series Model	TGS-2XXXXXXXXXX (""X"" can be 0-9, A-Z or blank)
Applicant	Vecow Co., Ltd
Received Date	Apr. 24, 2026
EUT Power Rating	24Vdc (from adapter)
Model Differences	The models are electrically identical, different models no. are for marketing purpose. The series model information is provided by client.
Operating System	Windows 11 Pro Version: 24H2
Data Cable Supplied	N/A
Accessory Device	N/A
I/O Port	Please refer to the User's Manual

Note:

1. The EUT uses the follow adapter:

Adapter (support unit only)	
Brand	FSP
Model	FSP120-AAAN2
Input Power	100-240Vac, 1.8A, 50-60Hz
Output Power	24Vdc, 5A
Power line	Input: 1.8m non-shielded cable Output: 1.5m non-shielded cable

2. The EUT contains following components.

Item	**Brand**	**Model**	**Spec.**	**Qty.**
Main Board	-	CB TGS-2000	REV. B	1
CPU	Intel	Core™ Ultra 9 processor 386H	up to 4.90 GHz	1
RAM	innodisk	M520-BGH2O51S-H03	32GB DDR5 6400 W/T CSODIMM	2
M.2	innodisk	DGM28-04 TDP1KECEQ-WH03	M.2 (P80) 4TG2-P 4TB	1

3. The EUT's highest operating frequency is 1.9GHz. Therefore the radiated emission is tested up to 10GHz.

3.2 Description of Measurement Modes

Measurements were performed in the test mode configuration designated by the customer.

Test results are presented in the report as below.

Test Mode	Measurement Condition
Conducted Emission Measurement	
-	AC-DC Adapter mode
Radiated Emission 30MHz ~ 1GHz Measurement	
-	AC-DC Adapter mode
Radiated Emission above 1GHz Measurement	
-	AC-DC Adapter mode

3.3 Description of Operating Condition

a. Placed the EUT on the test table.
b. Prepare PC to act as a communication partner and placed it outside of testing area.
c. The EUT was connected to the PC with LAN cable.
d. The communication partner sent data to EUT by command "ping" via LAN.
e. The EUT read / write data with Internal SSD & External SSD.
f. The EUT run test program "BurnIN.exe" to enable all functions.
g. The EUT sent H message to monitor and displayed on screen.
h. The microphone sent voice signal to EUT.
i. The EUT sent voice signal to earphone.

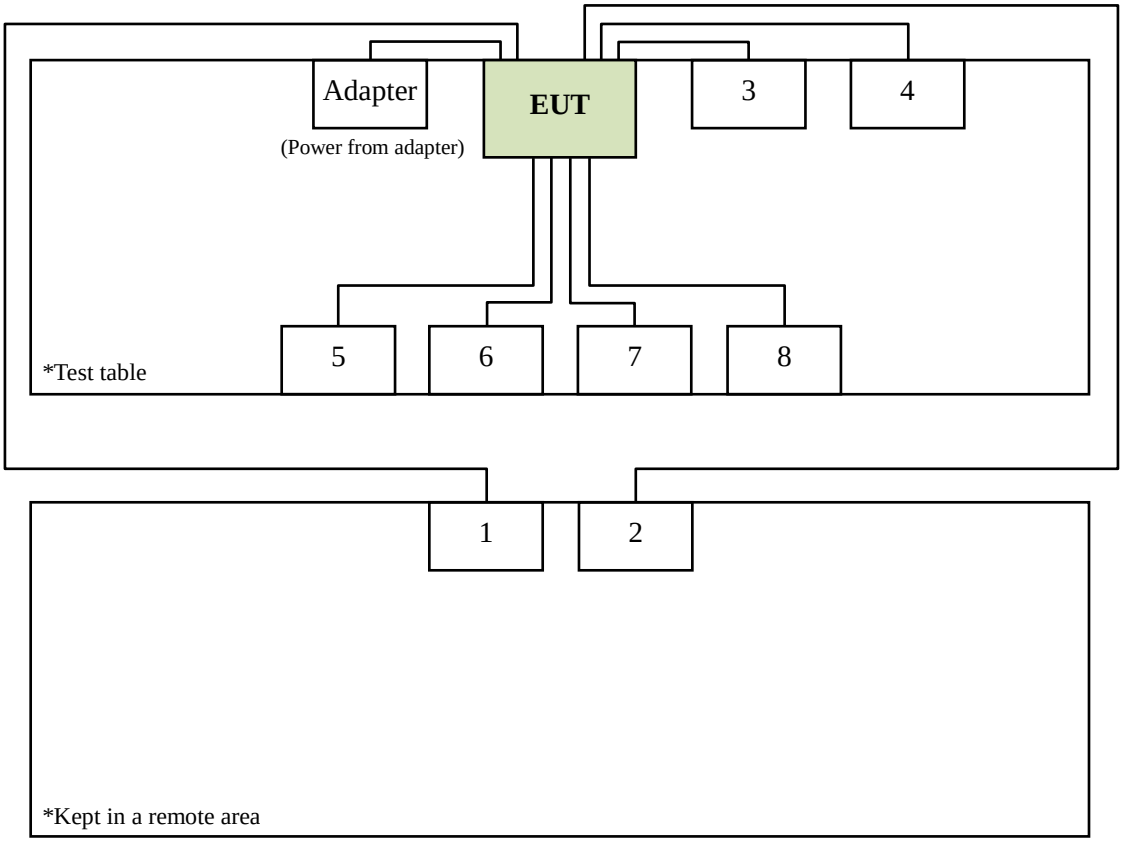
3.4 Description of Associated Equipment

The EUT has been conducted testing with other necessary accessories or support units.

Item	Equipment	Brand	Model No.	Serial No.	FCC ID	Data Cable	Power Cable	Remark
1	Desktop PC	DELL	D19M	N/A	PPD-QCNFA335	20m CAT.5E non-shielded LAN cable	AC: 1.8m non-shielded cable	-
2	Desktop PC	DELL	D24M	N/A	PD93165NG	20m CAT.5E non-shielded LAN cable	AC: 1.8m non-shielded cable	-
3	4K Monitor	HP	HP 27f 4k Display	3CM01916TG	FCC SDoC Approved	1.5m shielded HDMI cable	AC: 1.8m non-shielded cable DC: 1.4m non-shielded cable with 1 core	-
4	4K Monitor	ASUS	XG27UCS	S5LMTF200765	FCC SDoC Approved	1.5m shielded HDMI cable	AC: 1.8m non-shielded cable	-
5	Keyboard	DELL	KB216t	CN-0W33XP-L0300-7C1-15UP	FCC SDoC Approved	1.5m non-shielded USB cable	N/A	-
6	Mouse	DELL	MS116	CN-0DV0RH-L0300-7C1-15UP	FCC SDoC Approved	1.5m non-shielded USB cable	N/A	-
7	Earphone & Microphone	Avier	AEP-MM	N/A	N/A	1.2m non-shielded Audio cable	N/A	-
8	External Portable SSD (x3)	Transcend	TS120GESD240C	F96474-0001	FCC SDoC Approved	1m shielded USB cable	N/A	-

Note: 1. The core(s) is(are) originally attached to the cable(s).
2. Item 1-2 acted as communication partners to transfer data.

3.5 Configuration of Equipment Under Test



4 Emission Measurement

4.1 Conducted Emission Measurement

4.1.1 Limits of Conducted Emission Measurement

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

***** Decreases with the logarithm of the frequency.

Note: 1. The lower limit shall apply at the transition frequencies.
2. Detector function in the form: QP = Quasi Peak, AVG = Average
3. The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = LISN Factor + Cable Loss + Transient Limiter (If use)
Margin Level = Measurement Value – Limit Value

4.1.2 Measurement Instrument

Test Site: W08-CE					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-2	May 25, 2025
2	RF Cable	EMCI	EMCCFD300-BM-BM-5000	CT-1-107-2	May 21, 2025
3	EMI Test Receiver	R&S	ESR3	CT-1-103	May 20, 2025
4	Artificial Mains Network (AMN)	SCHWARZBECK	NSLK 8127 RC	CT-1-104-1RC	May 25, 2025
5	Transient Limiter	Electro-Metrics	EM-7600	CT-1-026	May 21, 2025
6	50ohm Termination	N/A	N/A	CT-1-109-1	May 26, 2025
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

Test Site: W09-CE-1					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-1	Apr. 29, 2026
2	Pulse limiter	R&S	ESH3-Z2	CT-2-015	Apr. 23, 2026
3	EMI Test Receiver	R&S	ESCI	CT-1-024	Apr. 27, 2026
4	Artificial Mains Network (AMN)	SCHWARZBECK	NSLK 8127	CT-1-104-1	Apr. 29, 2026
5	RF Cable	MVE	200200.400LL.500A	CT-9-101	Apr. 24, 2026
6	50ohm Termination	N/A	N/A	CT-1-065-1	Apr. 29, 2026
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

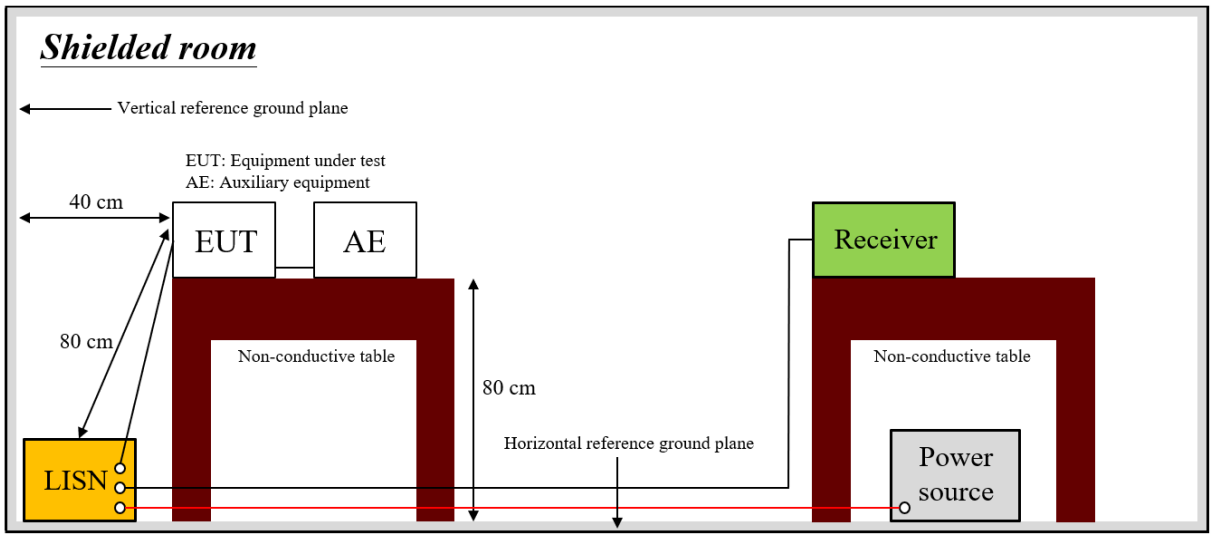
4.1.3 Measurement Procedure

a. The EUT was placed 0.8 m height non-conductive table from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN).
b. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All associated equipment powered from additional LISN(s).
c. Interrelating cables that hang closer than 0.4 m to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.
d. Interconnect cabling or wiring shall be connected to one of each type of functional port of the equipment under test, and each cable or wire shall be terminated in a device typical of actual usage. Where there are multiple ports all of the same type, additional connecting cables or wires shall be added to the equipment under test to determine the effect these cables or wires have on emission from the equipment under test.
e. The EMI test receiver connected to the line impedance stabilization network (LISN) powering the equipment. The measurements shall be limited to the operating ranges of voltage and frequency as specified for the equipment under test, having regard to the supply voltage and frequency for the intended market of the equipment under test.
f. The EMI test receiver scanned from 150kHz to 30MHz for emissions in each of modes. A scan was taken on both power lines, Line and Neutral, recording at least six highest emission amplitude.
g. The equipment under test and cable configuration of the above highest emission amplitude were recorded.

4.1.4 Deviation from Standard

No deviation

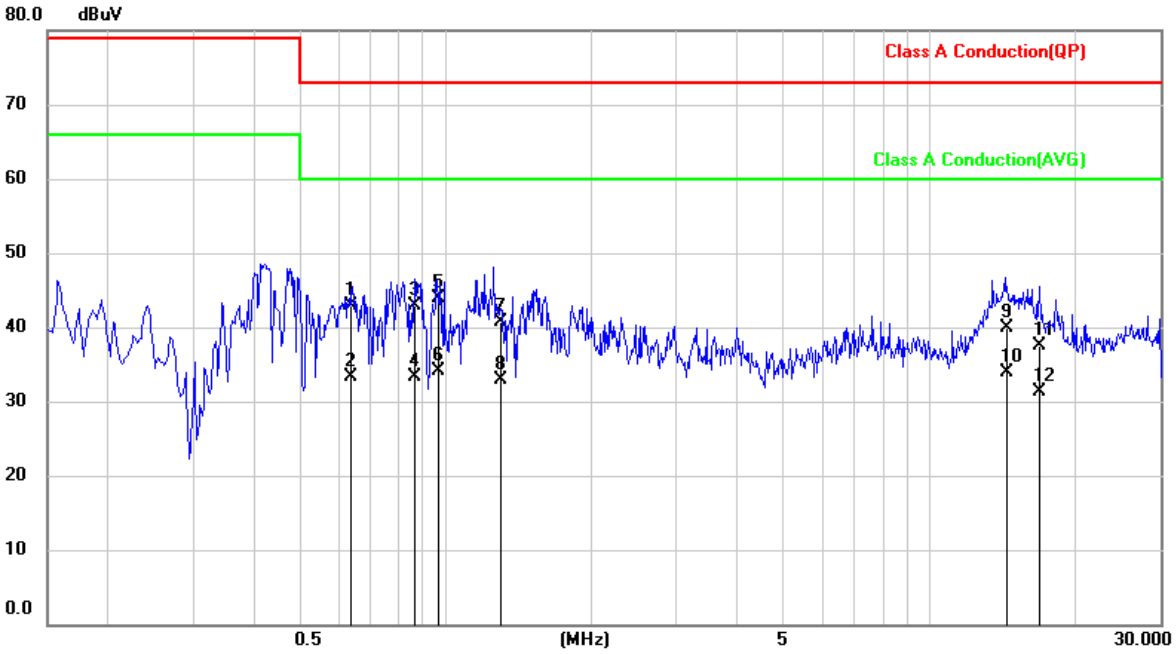
4.1.5 Measurement Configuration



Note: Please refer to 4.1.7 for the actual test configuration.

4.1.6 Measurement Result

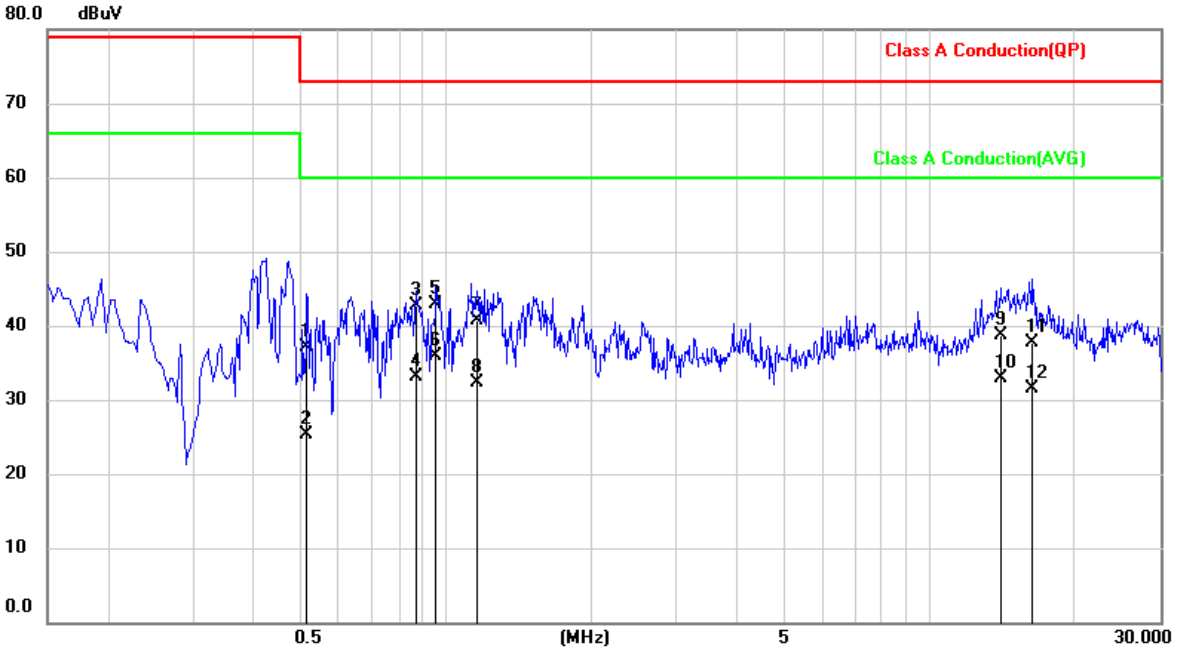
Test Voltage	120Vac, 60Hz	Frequency Range	0.15 ~ 30 MHz
Environmental Conditions	26℃, 55% RH	6dB Bandwidth	9 kHz
Test Date	2026/06/04	Phase	L
Tested by	Carter Liu	Test Site	W09-CE-1



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB)	Measurement (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.6350	32.99	9.96	42.95	73.00	-30.05	QP
2	0.6350	23.32	9.96	33.28	60.00	-26.72	AVG
3	0.8648	32.92	9.98	42.90	73.00	-30.10	QP
4	0.8648	23.35	9.98	33.33	60.00	-26.67	AVG
5	0.9667	33.84	9.99	43.83	73.00	-29.17	QP
6	0.9667	24.11	9.99	34.10	60.00	-25.90	AVG
7	1.2946	30.68	9.99	40.67	73.00	-32.33	QP
8	1.2946	22.82	9.99	32.81	60.00	-27.19	AVG
9	14.3996	29.56	10.30	39.86	73.00	-33.14	QP
10	14.3996	23.51	10.30	33.81	60.00	-26.19	AVG
11	16.8538	27.13	10.33	37.46	73.00	-35.54	QP
12	16.8538	20.91	10.33	31.24	60.00	-28.76	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
2. Correct Factor = LISN Factor + Cable Loss + Transient Limiter (If use)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

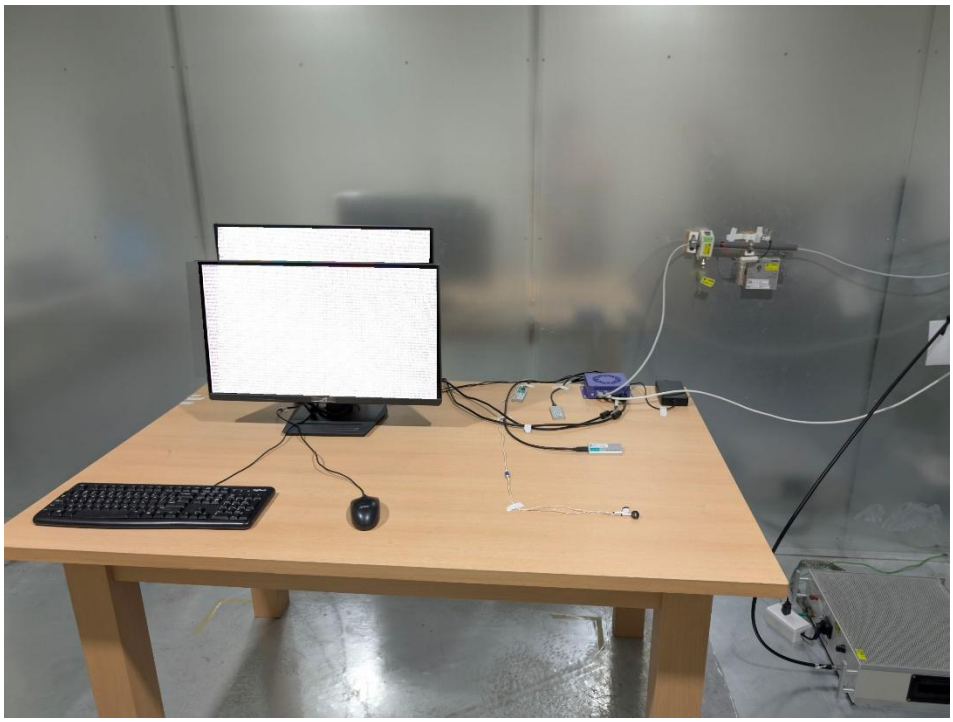
Test Voltage	120Vac, 60Hz	Frequency Range	0.15 ~ 30 MHz
Environmental Conditions	26℃, 55% RH	6dB Bandwidth	9 kHz
Test Date	2026/06/04	Phase	N
Tested by	Carter Liu	Test Site	W09-CE-1

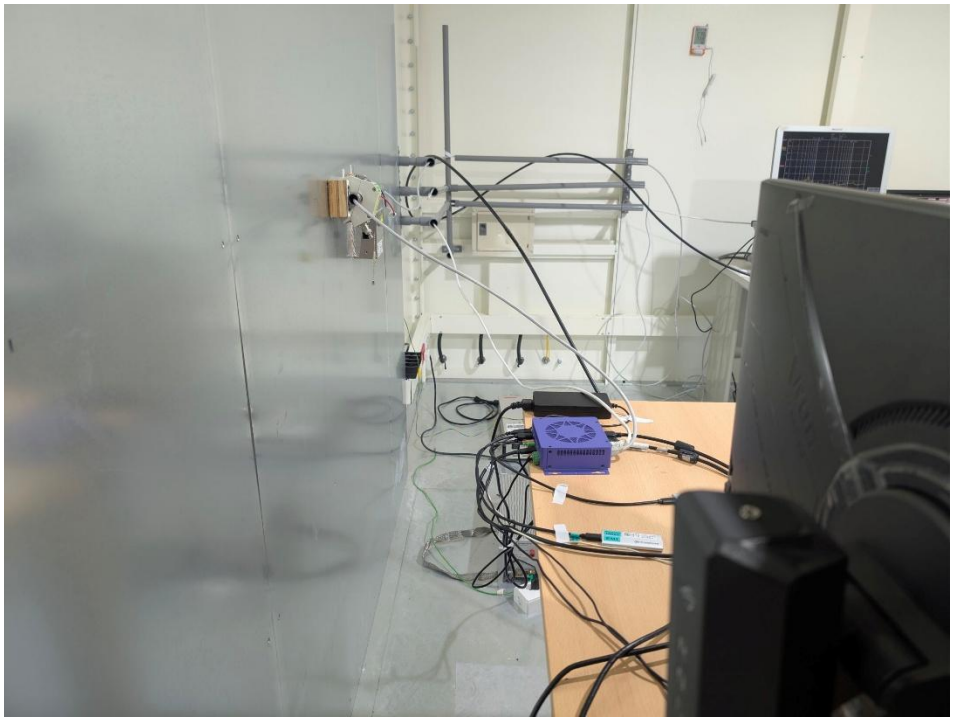


No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB)	Measurement (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.5161	27.23	9.96	37.19	73.00	-35.81	QP
2	0.5161	15.28	9.96	25.24	60.00	-34.76	AVG
3	0.8677	32.80	9.99	42.79	73.00	-30.21	QP
4	0.8677	23.19	9.99	33.18	60.00	-26.82	AVG
5	0.9593	32.90	10.00	42.90	73.00	-30.10	QP
6	0.9593	25.84	10.00	35.84	60.00	-24.16	AVG
7	1.1642	30.73	10.00	40.73	73.00	-32.27	QP
8	1.1642	22.27	10.00	32.27	60.00	-27.73	AVG
9	14.0685	28.42	10.29	38.71	73.00	-34.29	QP
10	14.0685	22.58	10.29	32.87	60.00	-27.13	AVG
11	16.2625	27.33	10.31	37.64	73.00	-35.36	QP
12	16.2625	21.24	10.31	31.55	60.00	-28.45	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
2. Correct Factor = LISN Factor + Cable Loss + Transient Limiter (If use)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

4.1.7 Photographs of Measurement Configuration





4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

Radiated Frequency Range 30 MHz to 1000 MHz

FCC 15B Radiated Emission Limit				
Frequency Range (MHz)	Class A		Class B	
	Quasi-peak (dBµV/m) at 3m	Quasi-peak (dBµV/m) at 10m	Quasi-peak (dBµV/m) at 3m	Quasi-peak (dBµV/m) at 10m
30 ~ 88	49.5	39.1	40	29.5
88 ~ 216	54	43.5	43.5	33.1
216 ~ 230	56.9	46.4	46	35.6
230 ~ 960				
960 ~ 1000	60	49.5	54	43.5

Radiated Frequency Range above 1 GHz

FCC 15B Radiated Emissions Limits				
Frequency Range (GHz)	Class A		Class B	
	Peak (dBµV/m) at 3m	Average (dBµV/m) at 3m	Peak (dBµV/m) at 3m	Average (dBµV/m) at 3m
1 ~ 40	80	60	74	54

Note: 1. The lower limit shall apply at the transition frequency.
2. Detector function in the form: PK = Peak, QP = Quasi Peak, AVG = Average
3. The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss (Antenna to Pre-Amplifier) - Pre-Amplifier Gain + Cable Loss (Pre-Amplifier to Receiver)
Margin Level = Measurement Value - Limit Value

Frequency Range (For unintentional radiators)

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 40GHz, whichever is lower

4.2.2 Measurement Instrument

Test Site: W08-966-2					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	Horn Antenna	Schwarzbeck	BBHA 9120D	CT-1-097	Jul. 02, 2025
2	Horn Antenna	Schwarzbeck	BBHA 9170	CT-9-032	Jul. 02, 2025
3	TRILOG Broadband Antenna with 6 dB Attenuator	Schwarzbeck & MVE	VULB 9168 & MVE2251-06	CT-9-027-2	Jun. 26, 2025
4	Signal Analyzer	Keysight	N9010A	CT-1-093	Jun. 20, 2025
5	EMI Test Receiver	Keysight	N9038A	CT-9-029	Jun. 20, 2025
6	Preamplifier	EM	EM 330	CT-9-069	Jun. 24, 2025
7	Preamplifier	EM	EM01G18G	CT-9-025	Jun. 24, 2025
8	Preamplifier	JPT	JPA0118-55-303K	CT-1-139	Jun. 24, 2025
9	Preamplifier	EMCI	EMC184045SE	CT-9-013	Jun. 24, 2025
10	Test Cable	MVE	140140.LL404.700	CT-9-079	Jun. 24, 2025
11	Test Cable	EMEC	EM-CB400	CT-9-001-1	Jun. 24, 2025
12	Test Cable	EMEC	EM-CB400	CT-9-001-2	Jun. 24, 2025
13	Test Cable	EMEC	EM-CB400	CT-9-001-3	Jun. 24, 2025
14	Test Cable	HUBER+SUHNER	SF102	CT-9-002-2	Jun. 24, 2025
15	Test Cable	MVE	280280.LL266.1200	CT-9-105	Jun. 24, 2025
16	Test Cable	EMCI	EMC102-KM-KM-600	CT-1-136	Jun. 24, 2025
17	Test Cable	MVE	140140.LL404.300	CT-9-076	Jun. 24, 2025
18	Measurement Software	EZ-EMC	Ver :WD-03A1-1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

Test Site: W09-10m-1					
Item	**Equipment**	**Manufacturer**	**Model**	**Meter No.**	**Calibration Date**
1	EMI Test Receiver	R&S	ESR7	CT-1-310	Aug. 27, 2025
2	Trilog Broadband Antenna with 6dB Attenuator	SCHWARZBECK & EMEC	VULB 9168 & EM-ATT-6000-06-02-NN	CT-1-303	Jan. 26, 2026
3	Pre-Amplifier	EMEC	EM330	CT-1-302	Jan. 26, 2026
4	Test Cable	R&S	VU18-10000NNMNNM-N	CT-1-282	Feb. 26, 2026
5	Test Cable	R&S	36609173.00	CT-1-252	Nov. 16, 2025
6	Test Cable	R&S	RG400	CT-1-343	Feb. 26, 2026
7	Measurement Software	EZ-EMC	Ver: Farad10m-03A2	CT-3-023	No calibration request
8	EMI Test Receiver	R&S	ESR7	CT-1-312	Aug. 26, 2025
9	Trilog Broadband Antenna with 6dB Attenuator	SCHWARZBECK & EMEC	VULB 9168 & EM-ATT-6000-06-02-NN	CT-1-304	Jan. 26, 2026
10	Pre-Amplifier	EMEC	EM330	CT-1-301	Jan. 26, 2026
11	Test Cable	R&S	3694.0456.02	CT-1-255	Nov. 16, 2025
12	Test Cable	R&S	36609173.00	CT-1-249	Nov. 16, 2025
13	Test Cable	R&S	RG400	CT-1-344	Feb. 26, 2026
14	Spectrum Analyzer	R&S	FSV3044	CT-1-307	Jun. 4, 2025
15	Horn Antenna	R&S	HF907	CT-1-305	Mar. 26, 2026
16	Pre-Amplifier	R&S	ESCU18	CT-1-306	Sep. 1, 2025
17	Bias Unit	R&S	ESCU-Z01	CT-1-306	Sep. 1, 2025
18	Test Cable	Verotronic Technologies	VF26-00300DMMNNM-N	CT-1-338	Feb. 26, 2026
19	Test Cable	Verotronic Technologies	VF26-05000DMMNNM-N	CT-1-339	Feb. 26, 2026
20	Test Cable	R&S	VF26-01000DMMDMM-N	CT-1-222	Nov. 27, 2025

21	Horn Antenna	RF Spin	DRH0844	CT-1-308	Mar. 26, 2026
22	Test Cable	Verotronic Technologies	VF40-00300KMM kMM-N	CT-1-340	Feb. 26, 2026
23	Pre-Amplifier	National Metrology Centre	SCU40F1	CT-1-309	Feb. 26, 2026
24	Test Cable	R&S	VF40-06000KMM kMM-N	CT-1-341	Feb. 26, 2026

Note: 1. The calibration interval of the above test instruments is 12 months.

4.2.3 Measurement Procedure

a. The EUT was placed 0.8 m height non-conductive table at semi-anechoic chamber. The turntable was rotated 360 degrees to determine the position of the highest radiation emissions.

b. The height of the antenna shall vary between 1 m to 4 m. Both vertical and horizontal polarizations of the antenna were set to make the measurement.

c. The EUT was set up as per the test configuration to simulate typical usage per the user's manual. All I/O cables were positioned to simulate typical usage.

d. Interconnect cabling or wiring shall be connected to one of each type of functional port of the equipment under test, and each cable or wire shall be terminated in a device typical of actual usage. Where there are multiple ports all of the same type, additional connecting cables or wires shall be added to the equipment under test to determine the effect these cables or wires have on emission from the equipment under test.

e. The initial step in collecting radiated emission data is a spectrum mode scanning the measurement frequency range.

   Below 1GHz:

   Reading in which marked as QP means measurements by using receiver mode with detector setting in RBW = 120 kHz.

   If the spectrum mode measured peak value compliance with and lower than QP Limit, the equipment under test shall be deemed to meet QP Limits.

   Above 1GHz:

   Reading in which marked as Peak & AVG means measurements by using spectrum mode with setting in RBW = 1 MHz.

   If the spectrum mode measured value compliance with the Peak Limits and lower than AVG Limits, the equipment under test shall be deemed to meet both Peak and AVG Limits.

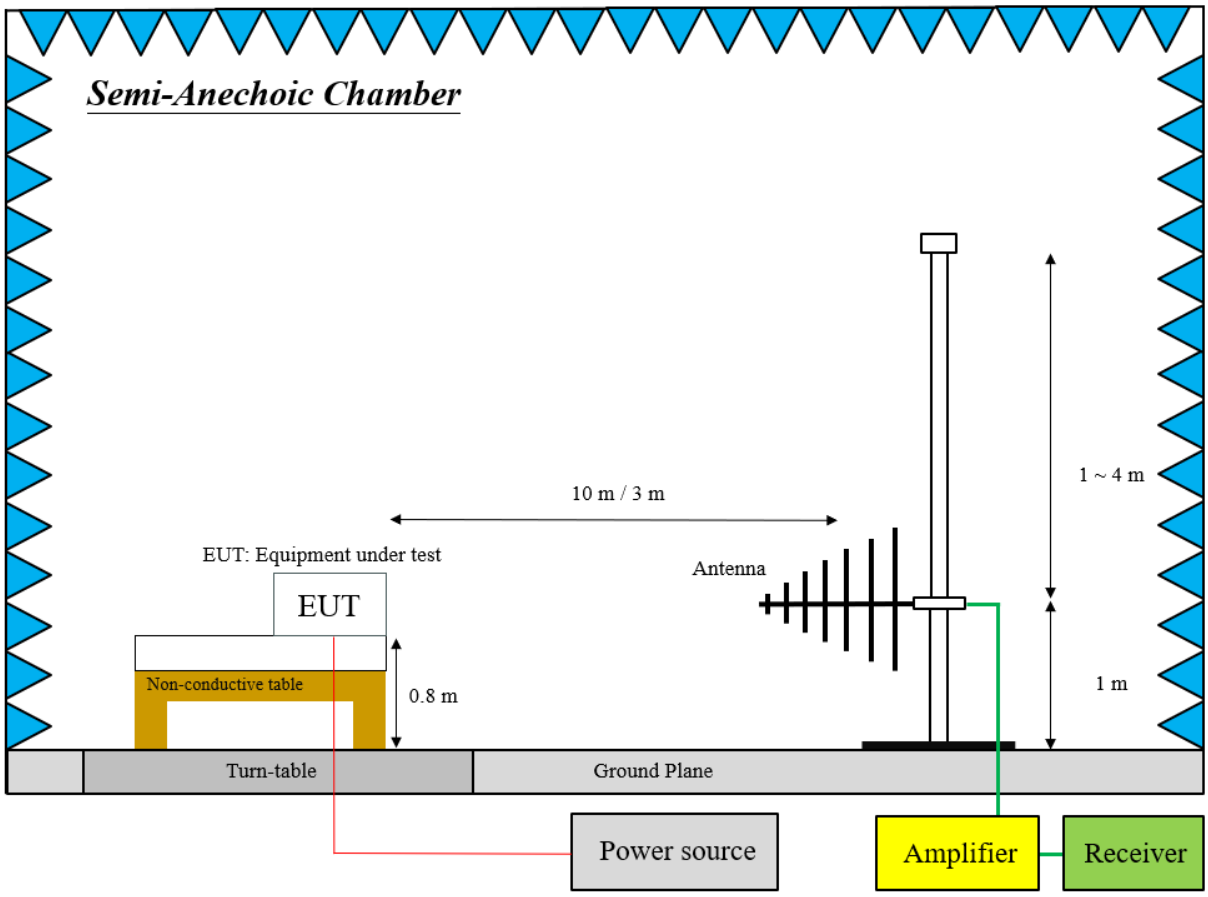
f. Emission frequency and amplitude were recorded, recording at least six highest emissions. The equipment under test and cable configuration of the above highest emission amplitude were recorded.

4.2.4 Deviation from Standard

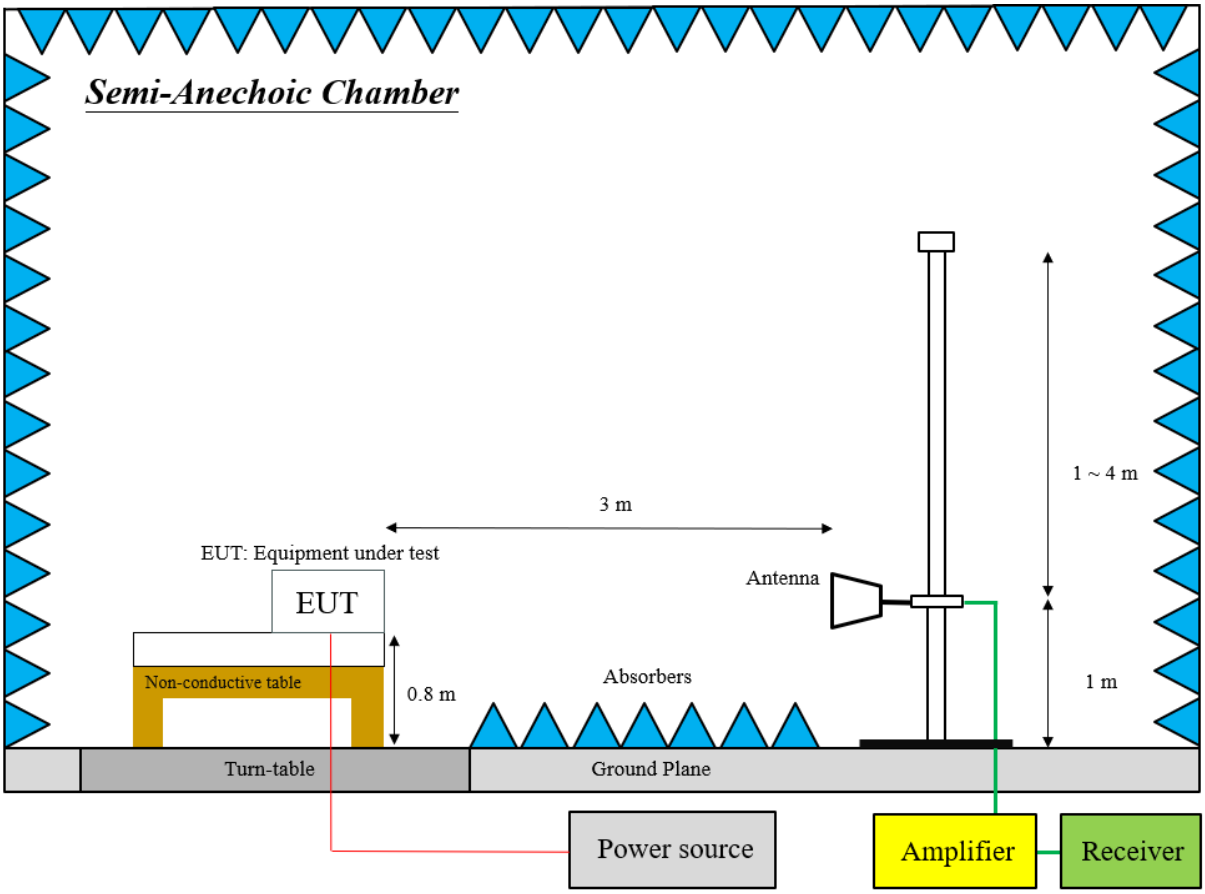
No deviation

4.2.5 Measurement Configuration

< Radiated Emissions Frequency: 30 MHz ~ 1 GHz >



< Radiated Emissions Frequency: above 1GHz >



Note:

(1) Please refer to the 4.2.7 for the actual test configuration.

(2) Detector function in the form: PK = Peak, QP = Quasi Peak, AVG = Average

(3) The test result calculated as following:

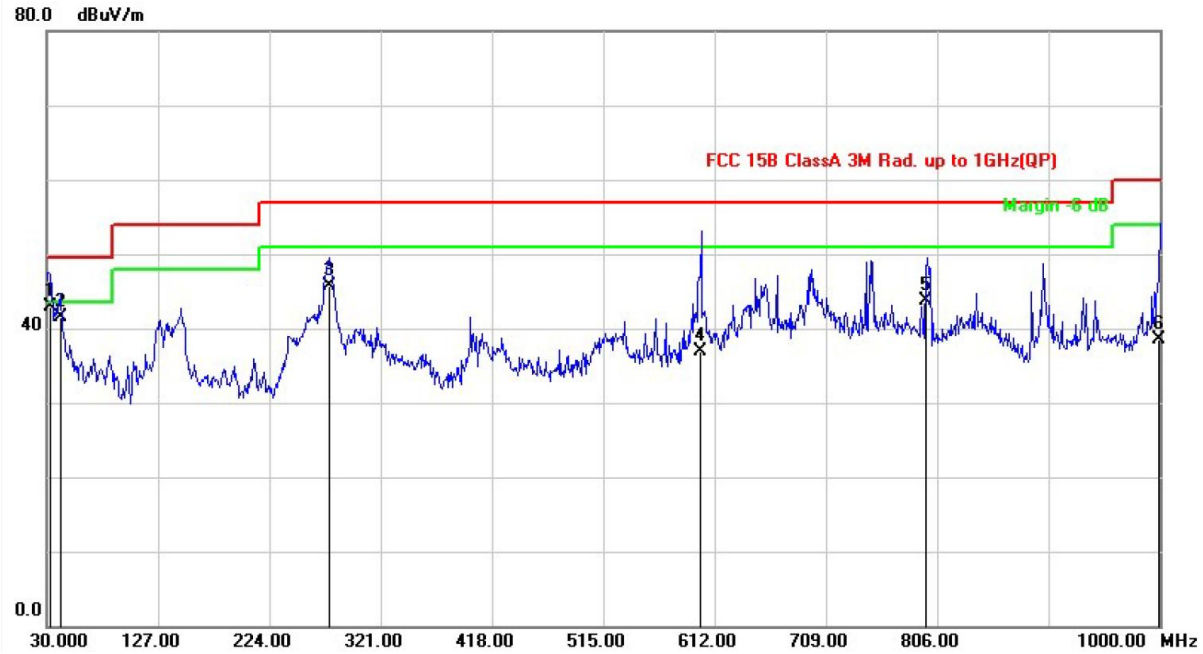
Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)

Margin Level = Measurement Value - Limit Value

4.2.6 Measurement Result

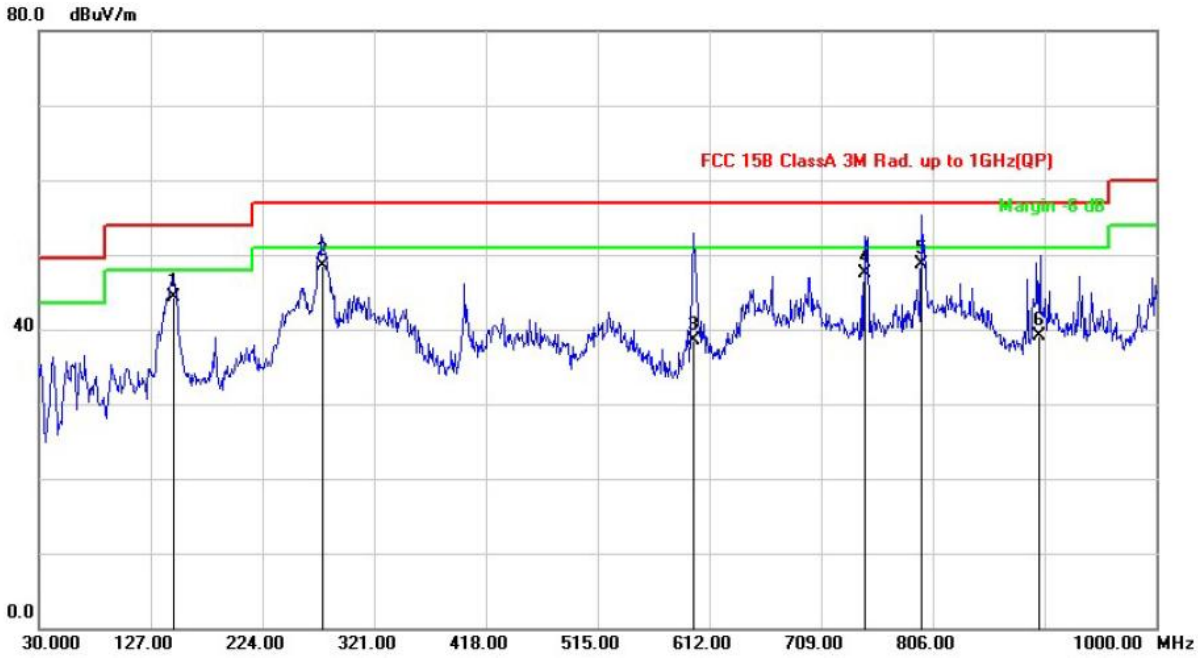
Test Voltage	120Vac, 60Hz	Frequency Range	30 ~ 1000 MHz
Environmental Conditions	27°C, 49% RH	6dB Bandwidth	120 kHz
Test Date	2026/06/18	Test Distance	3m
Tested by	Melky Chen	Polarization	Vertical
Test Site	W08-966-2		



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	33.0100	55.31	-12.47	42.84	49.50	-6.66	0	115	QP
2	41.8150	52.34	-10.81	41.53	49.50	-7.97	112	100	QP
3	276.1500	55.51	-9.83	45.68	56.90	-11.22	187	100	QP
4	599.2550	37.77	-0.77	37.00	56.90	-19.90	85	200	QP
5	796.5600	39.92	3.77	43.69	56.90	-13.21	360	108	QP
6	999.6050	31.36	7.21	38.57	60.00	-21.43	52	100	QP

Remark: 1. QP = Quasi Peak
2. Correct Factor = Antenna Factor + Cable Loss (Antenna to Amplifier) - Amplifier Gain + Cable Loss (Amplifier to Receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

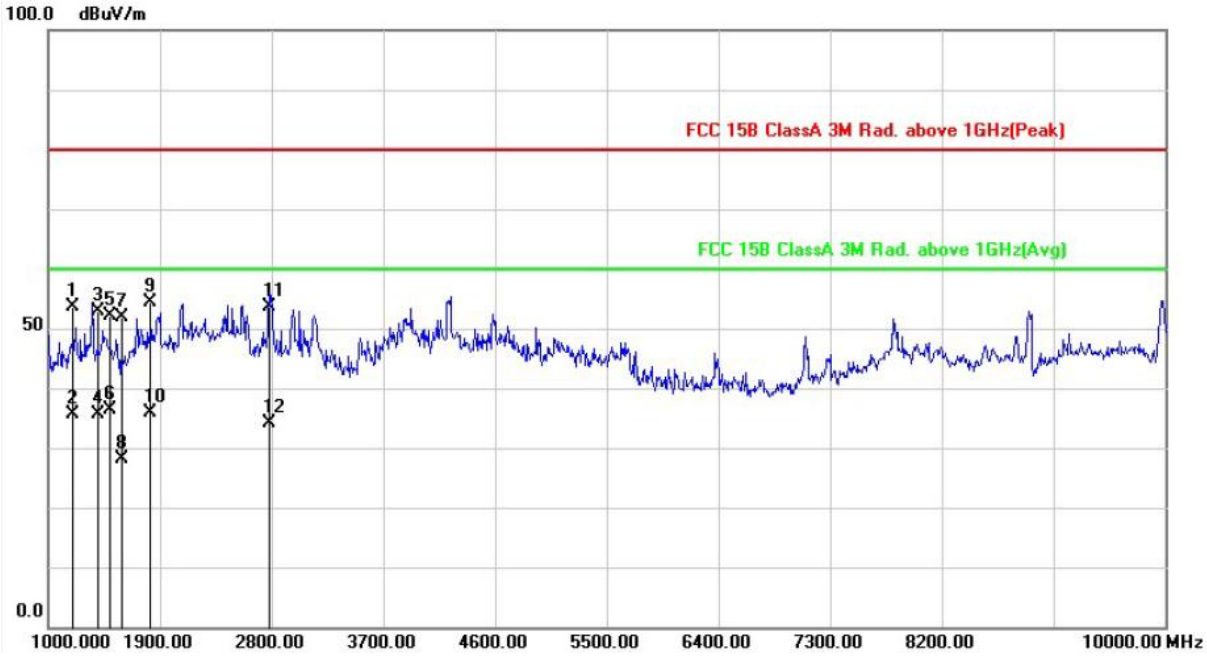
Test Voltage	120Vac, 60Hz	**Frequency Range**	30 ~ 1000 MHz
Environmental Conditions	27°C, 49% RH	**6dB Bandwidth**	120 kHz
Test Date	2026/06/18	**Test Distance**	3m
Tested by	Melky Chen	**Polarization**	Horizontal
Test Site	W08-966-2		



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	146.7400	54.58	-10.32	44.26	54.00	-9.74	280	200	QP
2	276.8100	58.28	-9.81	48.47	56.90	-8.43	160	100	QP
3	598.6450	39.36	-0.80	38.56	56.90	-18.34	205	200	QP
4	746.8050	44.61	2.84	47.45	56.90	-9.45	0	100	QP
5	796.5500	45.03	3.77	48.80	56.90	-8.10	190	100	QP
6	898.4950	33.65	5.39	39.04	56.90	-17.86	167	100	QP

Remark: 1. QP = Quasi Peak
2. Correct Factor = Antenna Factor + Cable Loss (Antenna to Amplifier) - Amplifier Gain + Cable Loss (Amplifier to Receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

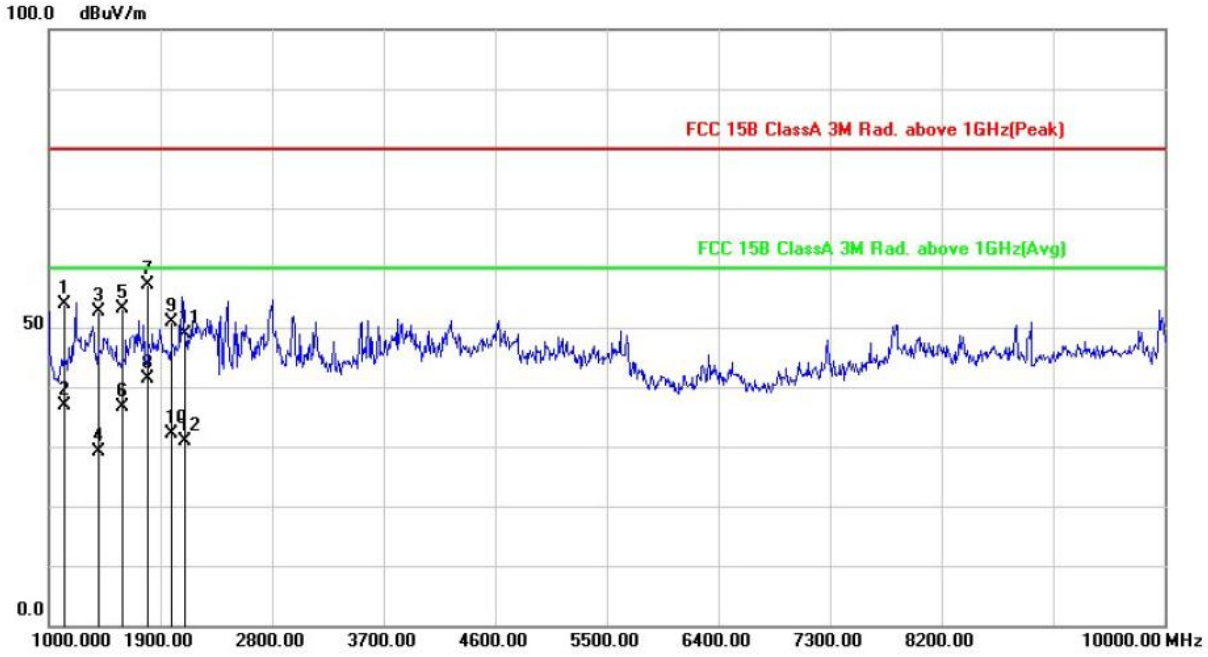
Test Voltage	120Vac, 60Hz	Frequency Range	1 ~ 10 GHz
Environmental Conditions	27°C, 49% RH	6dB Bandwidth	1MHz
Test Date	2026/06/18	Test Distance	3m
Tested by	Melky Chen	Polarization	Vertical
Test Site	W08-966-2		



No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1194.970	85.71	-32.09	53.62	80.00	-26.38	0	165	peak
2	1194.970	67.65	-32.09	35.56	60.00	-24.44	0	165	AVG
3	1396.495	85.12	-32.19	52.93	80.00	-27.07	0	272	peak
4	1396.495	67.76	-32.19	35.57	60.00	-24.43	0	272	AVG
5	1499.745	85.53	-33.32	52.21	80.00	-27.79	360	141	peak
6	1499.745	69.60	-33.32	36.28	60.00	-23.72	360	141	AVG
7	1598.735	85.34	-33.50	51.84	80.00	-28.16	155	100	peak
8	1598.735	61.70	-33.50	28.20	60.00	-31.80	158	100	AVG
9	1826.540	87.66	-33.25	54.41	80.00	-25.59	139	100	peak
10	1826.540	69.05	-33.25	35.80	60.00	-24.20	143	100	AVG
11	2786.880	81.06	-27.54	53.52	80.00	-26.48	216	100	peak
12	2786.880	61.75	-27.54	34.21	60.00	-25.79	220	100	AVG

Remark: 1. peak = Peak, AVG = Average
2. Correct Factor = Antenna Factor + Cable Loss (Antenna to Amplifier) - Amplifier Gain + Cable Loss (Amplifier to Receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

Test Voltage	120Vac, 60Hz	Frequency Range	1 ~ 10 GHz
Environmental Conditions	27°C, 49% RH	6dB Bandwidth	1MHz
Test Date	2026/06/18	Test Distance	3m
Tested by	Melky Chen	Polarization	Horizontal
Test Site	W08-966-2		

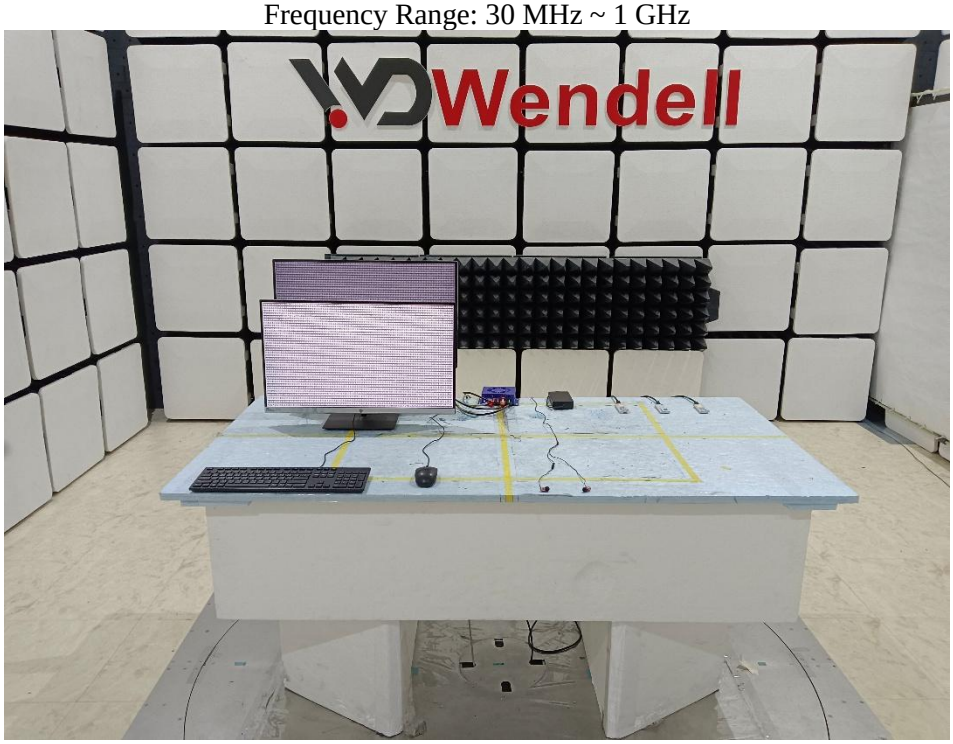


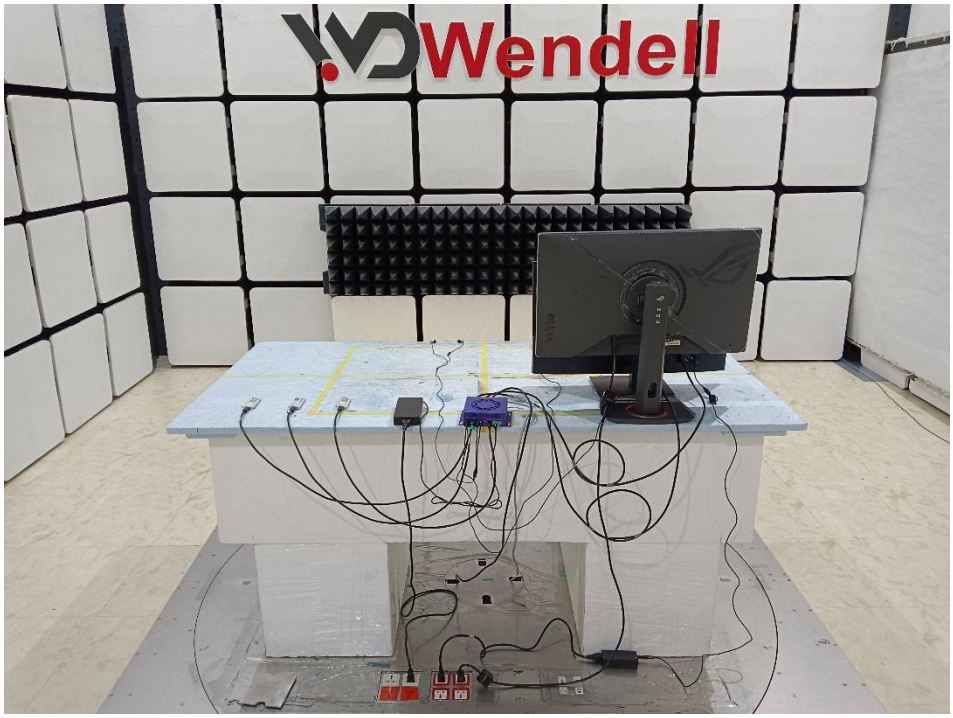
No.	Frequency (MHz)	Reading Level (dBµV)	Correct Factor (dB/m)	Measurement (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1122.115	86.19	-32.25	53.94	80.00	-26.06	234	200	peak
2	1122.115	69.03	-32.25	36.78	60.00	-23.22	237	200	AVG
3	1400.265	84.77	-32.21	52.56	80.00	-27.44	236	100	peak
4	1400.265	61.32	-32.21	29.11	60.00	-30.89	233	100	AVG
5	1595.530	86.62	-33.49	53.13	80.00	-26.87	155	100	peak
6	1595.530	70.05	-33.49	36.56	60.00	-23.44	151	100	AVG
7	1799.030	90.41	-33.37	57.04	80.00	-22.96	201	200	peak
8	1799.030	74.63	-33.37	41.26	60.00	-18.74	198	200	AVG
9	1991.865	83.33	-32.36	50.97	80.00	-29.03	360	114	peak
10	1991.865	64.59	-32.36	32.23	60.00	-27.77	360	114	AVG
11	2094.775	79.91	-31.03	48.88	80.00	-31.12	360	101	peak
12	2094.775	61.92	-31.03	30.89	60.00	-29.11	360	101	AVG

Remark: 1. peak = Peak, AVG = Average
2. Correct Factor = Antenna Factor + Cable Loss (Antenna to Amplifier) - Amplifier Gain + Cable Loss (Amplifier to Receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

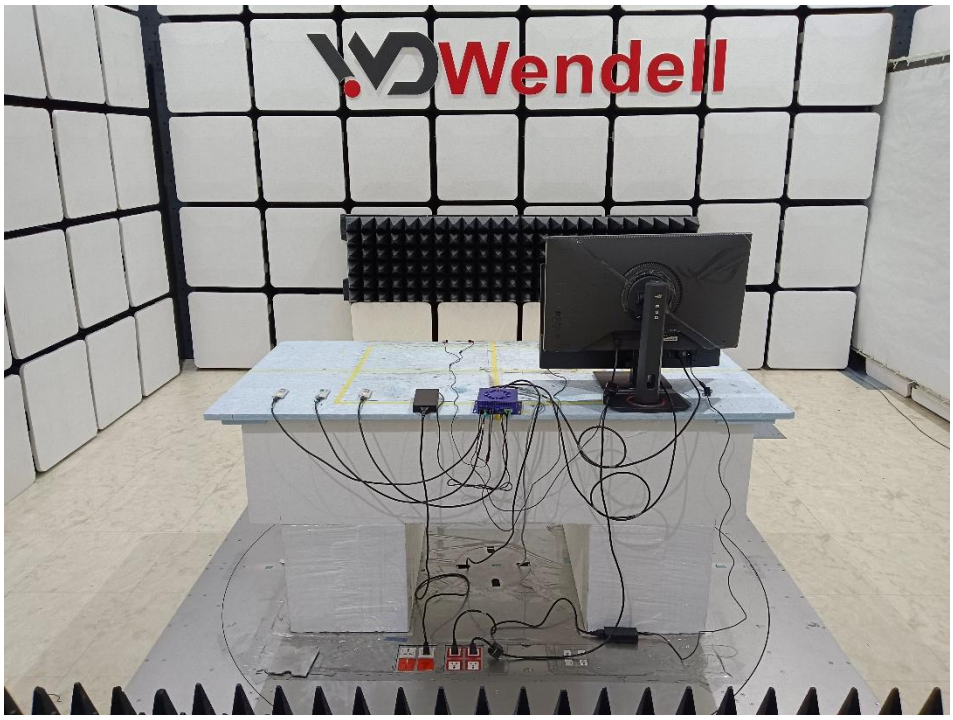
4.2.7 Photographs of Measurement Configuration

Frequency Range: 30 MHz ~ 1 GHz





Frequency Range: Above 1 GHz



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