

TEST REPORT

Applicant: Mason America, Inc.
Address: STE 1111 701 PIKE ST SEATTLE WA 98101-3915
Equipment Type: Mason SmartTab 300
Model Name: MGQ300
Brand Name: MASON
FCC ID: 2AJZP-MGQ300
ISED Number: 24360-MGQ300
Test Standard: 47 CFR Part 15 Subpart B
ICES-003 Issue 7
ANSI C63.4-2014
Sample Arrival Date: Sep. 05, 2025
Test Date: Sep. 09, 2025 - Sep. 17, 2025
Date of Issue: Oct. 17, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Approved by: Zhang Yanqing

(Laboratory Manager)

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Huang Chengkun

Zhang Yanqing

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Oct. 17, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Mason America, Inc.
Address	STE 1111 701 PIKE ST SEATTLE WA 98101-3915

2.2 Manufacturer Information

Manufacturer	Mason America, Inc.
Address	STE 1111 701 PIKE ST SEATTLE WA 98101-3915

2.3 General Description for Equipment under Test (EUT)

Equipment Type	Mason SmartTab 300
Model Name Under Test	MGQ300
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	HS63-MP-P1
Software Version	MGQ300_V01_G_20250122
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	MGQ300
	Serial No.	N/A
	Capacity	7720 mAh
	Rated Voltage	3.85 V
	Limit Charge Voltage	4.4 V
Ancillary Equipment 2	Adapter	
	Brand Name	N/A
	Model No.	552A-033G-1C
	Serial No.	N/A
	Rated Input	100-240 V~, 1.0 A, 50/60 Hz
	Rated Output	5 V= 3.0 A 15W; 9 V= 3.0 A 27W; 12 V= 2.5 A 30W; 15 V= 2.0 A 30W; 20 V= 1.5 A 30W;
Ancillary Equipment 3	USB Cable	
	Model No.	N/A
	Length (Approx.)	1.0 m

2.5 Technical Information

Network and wireless connectivity	3G Network WCDMA/HSDPA/HSUPA/HSPA+ Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/13/17/19/25/26/66/71 TDD LTE Band 38/41 Bluetooth, 2.4G WIFI, 5G WIFI GPS, GLONASS, BDS, Galileo, QZSS, NFC
Classification of equipment	Class B
Highest frequency generated or used in the device or on which the device operates or tunes(MHz)	5850 MHz

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ICES-003 Issue 7	Information Technology Equipment (Including Digital Apparatus)
3	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

3.2 Verdict

No.	Description	FCC Rule	ISED Rule	Test Verdict	Remark
1	Radiated Emission	15.109	ICES-003, 3.2.2	Pass	--
2	Conducted Emission, AC Ports	15.107	ICES-003, 3.2.1	Pass	--

3.3 Decision Rule

- ☐ No Need
- ☒ Use General conformity decision rule (Consider uncertainty or not ☒ No ☐ Yes)
- ☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐ No ☐ Yes)

3.4 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (150 kHz-30 MHz)-AMN	2.6 dB
Radiated emissions (30 MHz-1 GHz)-966#1	4.2 dB
Radiated emissions (1 GHz-18 GHz) -966#1	5.3 dB
Radiated emissions (18 GHz-40 GHz) -966#1	5.6 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Laptop	DELL	N/A	N/A	N/A	N/A	☒
TF Card	Kingston	N/A	N/A	N/A	N/A	☒

4.2 Test Configurations

All test modes of EUT are listed in the table below.

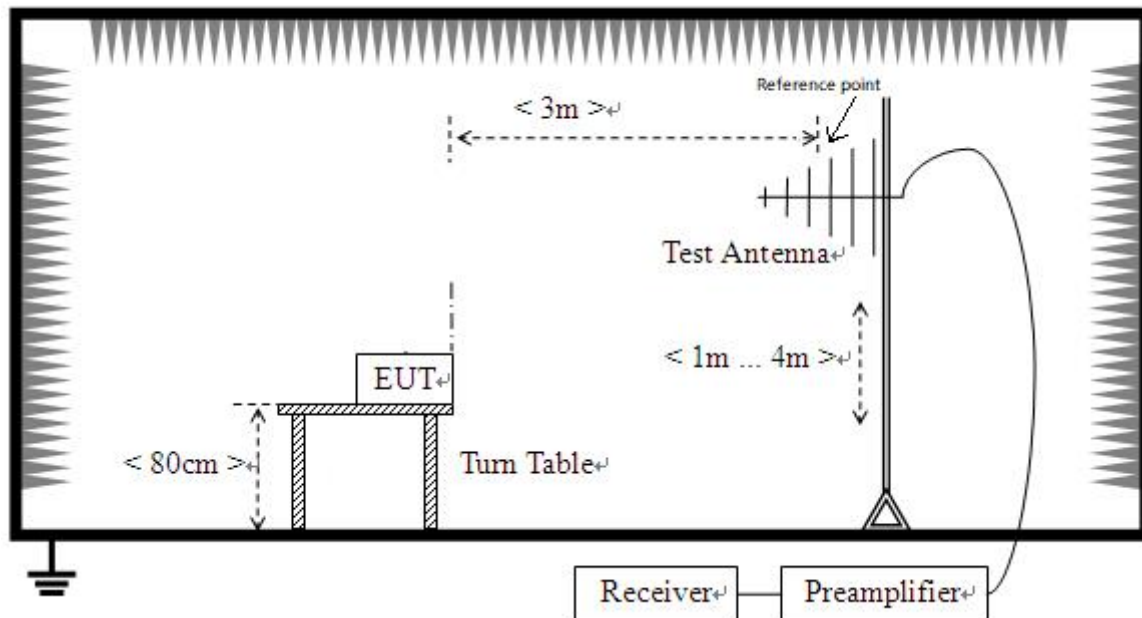
Test Mode Configuration	Description
Mode 1	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 2	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 3	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 4	<u>The Standby Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 5	<u>The USB Test Mode</u> EUT + Laptop + USB Cable + Battery + TF Card

Test Case	Test Mode Configuration	Worst Mode
Radiated emission	Mode 1~Mode 5	1, 5
Conducted emission	Mode 1~Mode 5	1

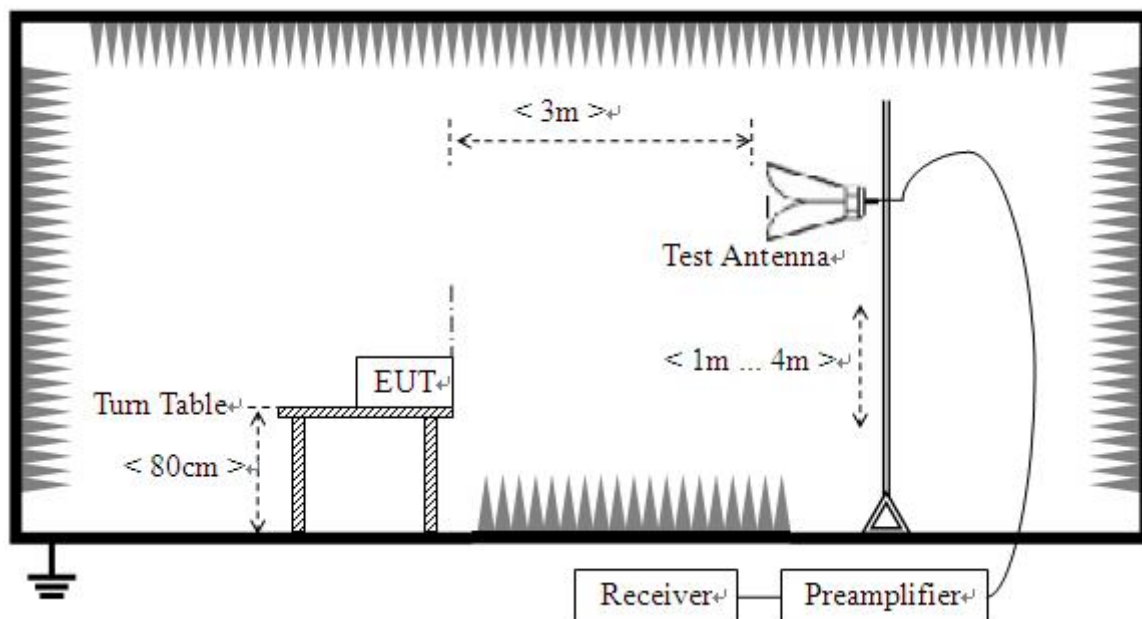
Note: Based on client request, all normal using modes of the normal function were tested, but only data of the worst mode (if test case has) was reported in this report.

4.3 Test Setups

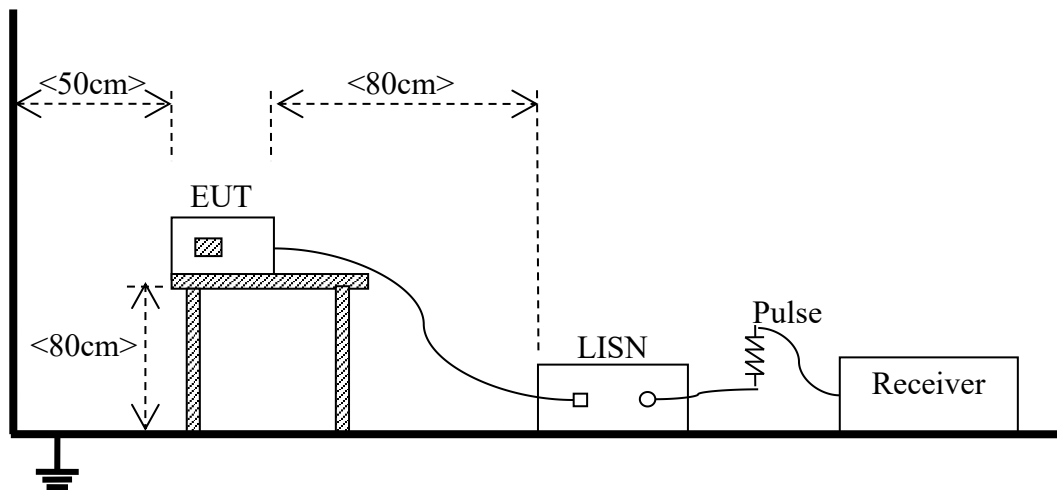
Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)

Test Setup 2

Conducted emission, AC ports

5 TEST ITEMS

5.1 Emission Tests

5.1.1 Radiated emission

5.1.1.1 Limit

FCC:

Frequency range (MHz)	Class B (at 3 m)		Class A (at 3 m)
	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)
30 - 88	100	40	49.5
88 - 216	150	43.5	54
216 - 960	200	46	56.9
Above 960	500	54	60

Note:

- 1) Field Strength (dB $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) The limits using ANSI C63.4-2014.
- 4) For 30-1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency range (GHz)	Class B (at 3 m)			Class A (at 3 m)	
	Field Strength ($\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)	Field Strength Average (dB $\mu\text{V/m}$)	Field Strength Peak (dB $\mu\text{V/m}$)
1 - F_M	500	54	74	60	80

Note 1: The highest measurement frequency, F_M , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m L_{3m} is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \cdot \log(d_{10m}/d_{3m})$$

Where:

L_{3m} is Average Class A limit at 3m;

L_{10m} is Average Class A limit at 10m;

d_{10m} is Measurement distance in 10m;

d_{3m} is Measurement distance in 3m.

For this case: $L_{3m} = 49.5 + 20 \cdot \log(10/3) = 60$ (dB $\mu\text{V/m}$).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5 GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ or 40 GHz, whichever is lower.
Note: F_X is Highest frequency generated or used in the device or on which the device operates or tunes.	

ISED:

Frequency range (MHz)	Class A (at 3 m) Quasi-peak (dB μ V/m)	Class B (at 3 m) Quasi-peak (dB μ V/m)
30 - 88	50.0	40.0
88 - 216	54.0	43.5
216 - 230	56.9	46.0
230 - 960	57.0	47.0
960 - 1000	60.0	54.0
Note: The more stringent limit applies at transition frequencies.		

Frequency range (GHz)	Class A (3 m) Average (dB μ V/m)	Class A (3 m) Peak (dB μ V/m)	Class B (3 m) Average (dB μ V/m)	Class B (3 m) Peak (dB μ V/m)
1 - F_M	60	80	54	74
Note: 1. The highest measurement frequency, F_M , in GHz, shall be determined as next Table. 2. The measurement bandwidth shall be 1 MHz or greater. 3. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test. 4. The test site shall have been validated at the distance used for radiated emission measurements on the ITE or digital apparatus under test				

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ up to a maximum of 40 GHz
Note: F_X is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

5.1.1.2 Test setup

Please refer to 4.2 section description of test setup of test setup 1. The photo of test setup please refer to ANNEX B.

5.1.1.3 Test procedure

1. The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);
2. All Radiated Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.
3. An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.
4. The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.
5. Use the following spectrum analyzer settings:
 Span = wide enough to fully capture the emission being measured
 RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$
 VBW $\geq$ RBW
 Sweep = auto
 Detector function = peak for $f < 1 \text{ GHz}$, peak & RMS Average for $f \geq 1 \text{ GHz}$
 Trace = max hold

5.1.1.4 Test result and test equipment list

Please refer to ANNEX A.1.

Note:

1. Results (dB μ V/m) = Reading (dB μ V/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)
3. Margin = Limit – Results

5.1.2 Conducted emission

5.1.2.1 Limit

Frequency range (MHz)	Class A		Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66	66 to 56	56 to 46
0.50 - 5	73	60	56	46
5 - 30	73	60	60	50

Note:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.
- 3) The limit using ANSI C63.4.

5.1.2.2 Test setup

Please refer to 4.2 section description of test setup of test setup 2. The photo of test setup please refer to ANNEX B.

5.1.2.3 Test procedure

1. The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);
2. The EUT is connected to the power mains through a LISN which provides 50 Ω /50 μ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.
3. Use the following spectrum analyzer settings:
 RBW = 9 kHz
 VBW $\geq$ RBW
 Sweep = 10ms
 Detector function = Peak & Average
 Trace = max hold

5.1.2.4 Test result and test equipment list

Please refer to ANNEX A.2.

Note:

1. Results (dB μ V) = Reading (dB μ V) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Margin = Limit – Results

ANNEX A TEST RESULTS AND TEST EQUIPMENT LIST

A.1 Radiated emission

Note 1: Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30 MHz to 1000 MHz. To reduce the testing time, a peak measuring receiver may be used instead of a quasi-peak measuring receiver. In case of dispute, measurement with a quasi-peak measuring receiver will take precedence.

Note 2: The FCC limit is stricter than the IC and only reflects FCC Radiated Emission test data.

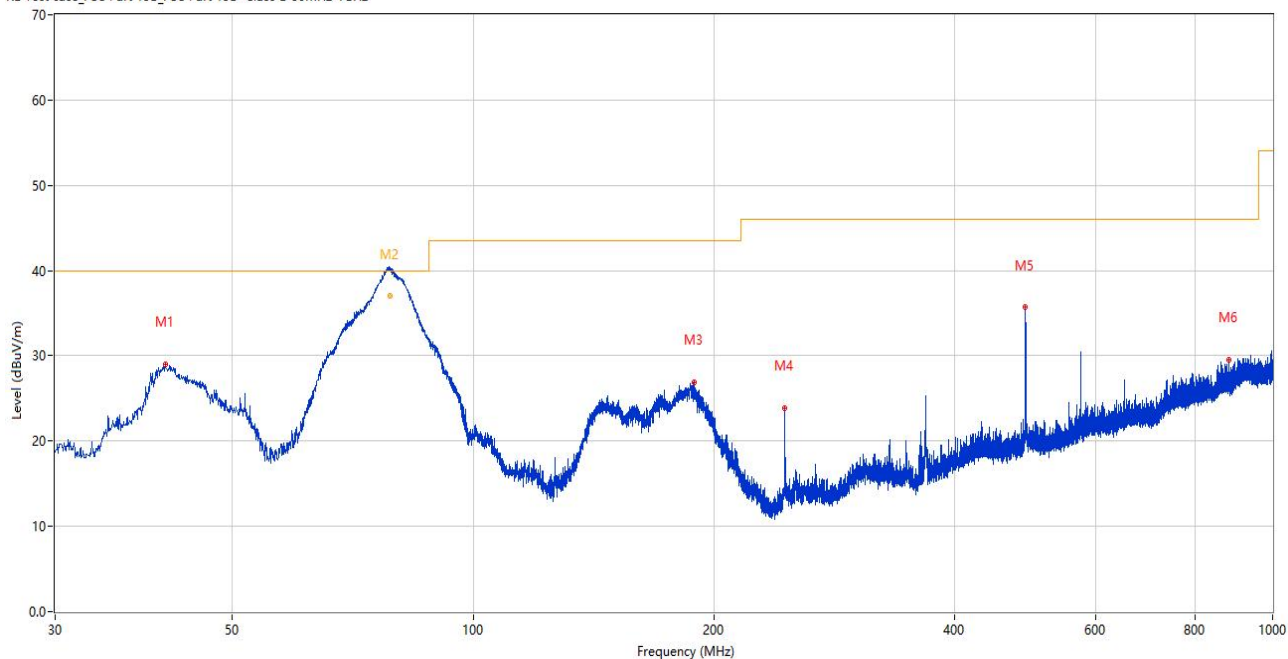
Note 3: The Radiated Emission is required to be investigated to the upper frequency of 5th harmonic of the highest internal frequency of EUT or 40 GHz, whichever is lower. The test results above 18GHz are only noise and are not recorded in the report.

Sample No.	SC-SH2490096-S07	Temperature	20.4°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Tong Yingying	Test Date	2025.09.17

Test Mode 1

A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz (FCC)

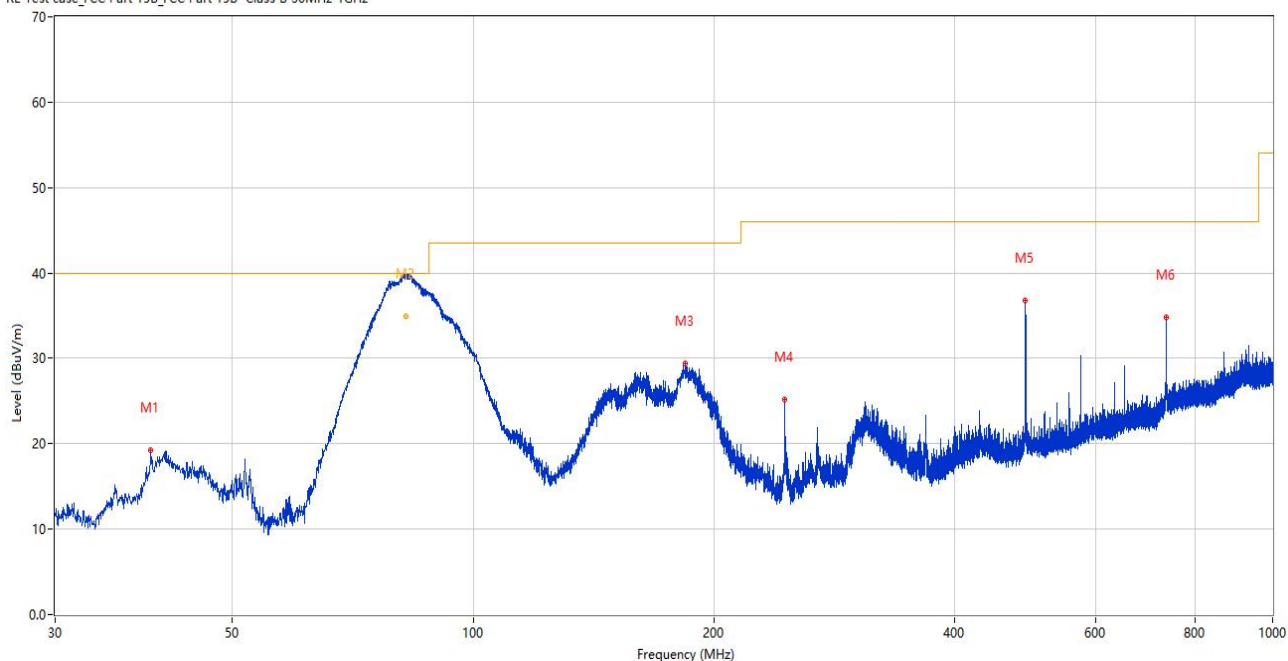
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	41.203	28.99	-26.84	40.0	11.01	Peak	254.00	100	Vertical	Pass
2	78.781	39.03	-31.83	40.0	0.97	Peak	259.00	200	Vertical	N/A
2*	78.781	36.99	-31.83	40.0	3.01	QP	259.00	200	Vertical	Pass
3	188.983	26.86	-27.38	43.5	16.64	Peak	200.00	100	Vertical	Pass
4	245.437	23.90	-25.03	46.0	22.10	Peak	13.00	200	Vertical	Pass
5	490.896	35.67	-18.80	46.0	10.33	Peak	171.00	100	Vertical	Pass
6	881.806	29.48	-10.50	46.0	16.52	Peak	291.00	200	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz (FCC)

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



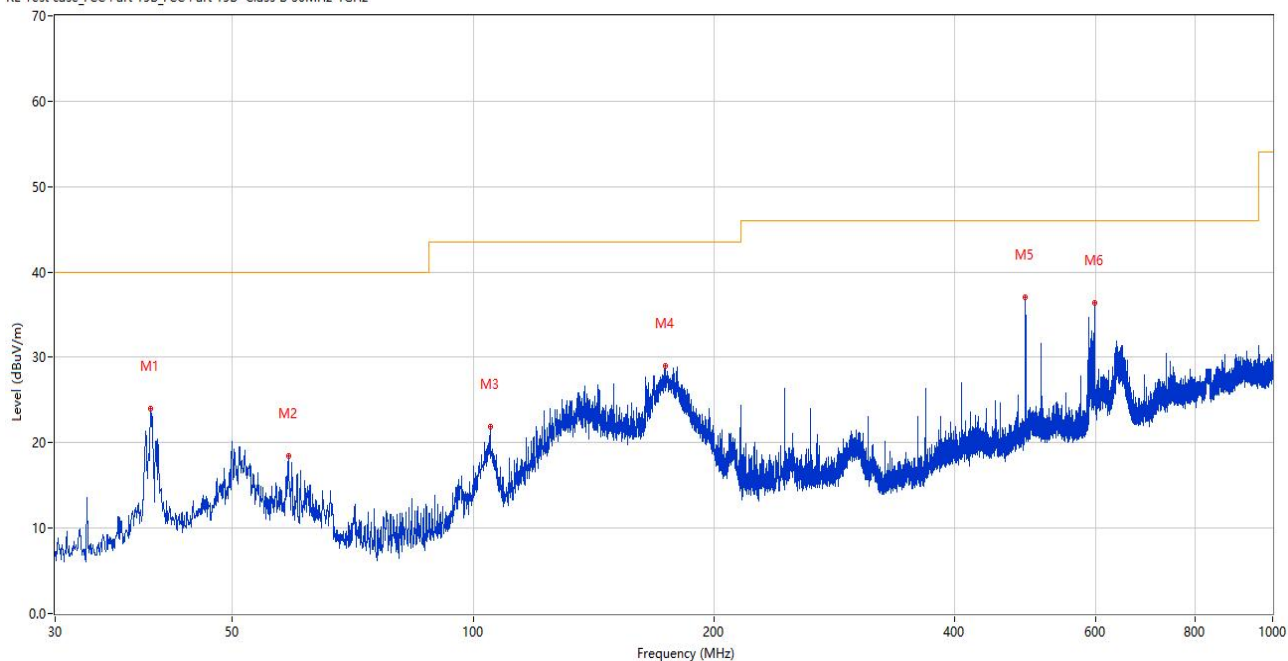
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.506	19.29	-27.37	40.0	20.71	Peak	3.00	100	Horizontal	Pass
2	82.450	36.33	-31.51	40.0	3.67	Peak	159.00	185	Horizontal	N/A
2*	82.450	34.99	-31.51	40.0	5.01	QP	159.00	185	Horizontal	Pass
3	184.133	29.35	-28.03	43.5	14.15	Peak	266.00	200	Horizontal	Pass
4	245.437	25.14	-25.03	46.0	20.86	Peak	95.00	100	Horizontal	Pass
5	490.847	36.81	-18.80	46.0	9.19	Peak	203.00	200	Horizontal	Pass
6	736.305	34.81	-13.20	46.0	11.19	Peak	15.00	100	Horizontal	Pass

Sample No.	SC-SH2490096-S07	Temperature	20.4°C
Humidity	51%RH	Test Voltage	DC 5V From PC
Test Engineer	Tong Yingying	Test Date	2025.09.17

Test Mode 5

A.1.3 Test Antenna Vertical, 30 MHz – 1 GHz (FCC)

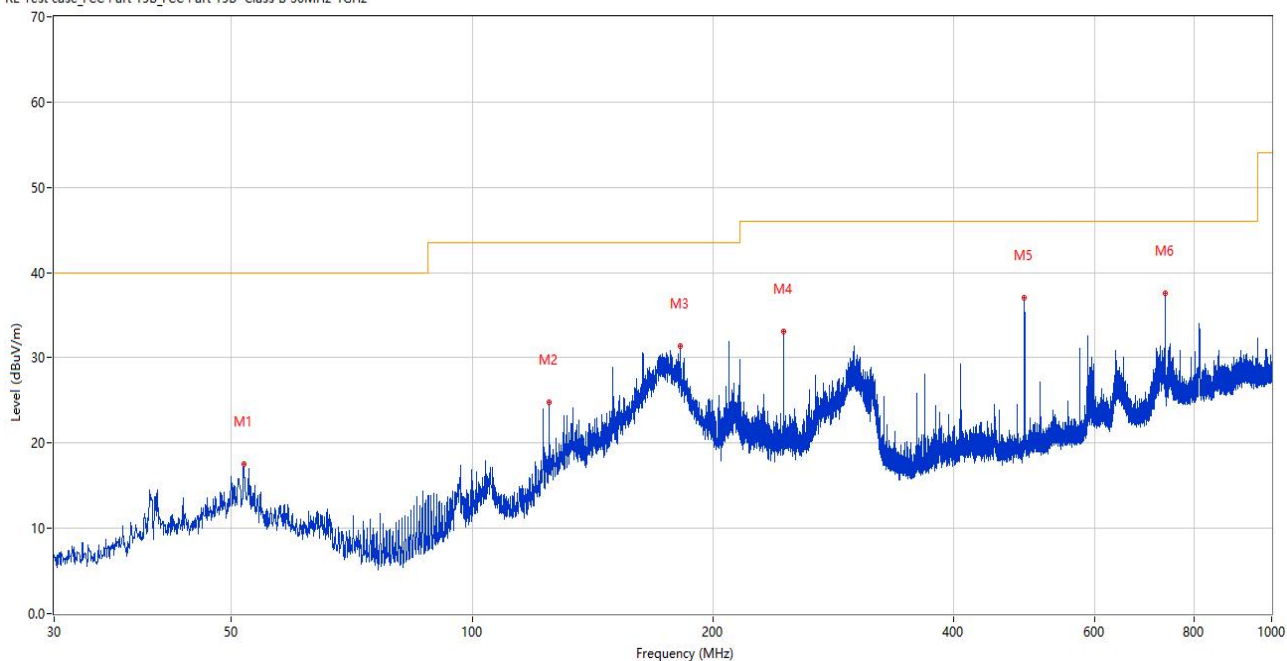
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.506	24.02	-27.37	40.0	15.98	Peak	333.00	100	Vertical	Pass
2	58.712	18.41	-26.47	40.0	21.59	Peak	282.00	100	Vertical	Pass
3	104.981	21.88	-26.85	43.5	21.62	Peak	298.00	100	Vertical	Pass
4	173.706	28.95	-29.06	43.5	14.55	Peak	25.00	100	Vertical	Pass
5	490.847	37.06	-18.80	46.0	8.94	Peak	266.00	100	Vertical	Pass
6	599.293	36.34	-15.68	46.0	9.66	Peak	187.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 30 MHz – 1 GHz (FCC)

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.776	17.53	-25.73	40.0	22.47	Peak	0.00	100	Horizontal	Pass
2	124.817	24.73	-29.46	43.5	18.77	Peak	274.00	200	Horizontal	Pass
3	181.902	31.37	-28.32	43.5	12.13	Peak	131.00	100	Horizontal	Pass
4	245.437	33.10	-25.03	46.0	12.90	Peak	48.00	100	Horizontal	Pass
5	490.896	37.10	-18.80	46.0	8.90	Peak	198.00	100	Horizontal	Pass
6	736.305	37.53	-13.20	46.0	8.47	Peak	3.00	100	Horizontal	Pass

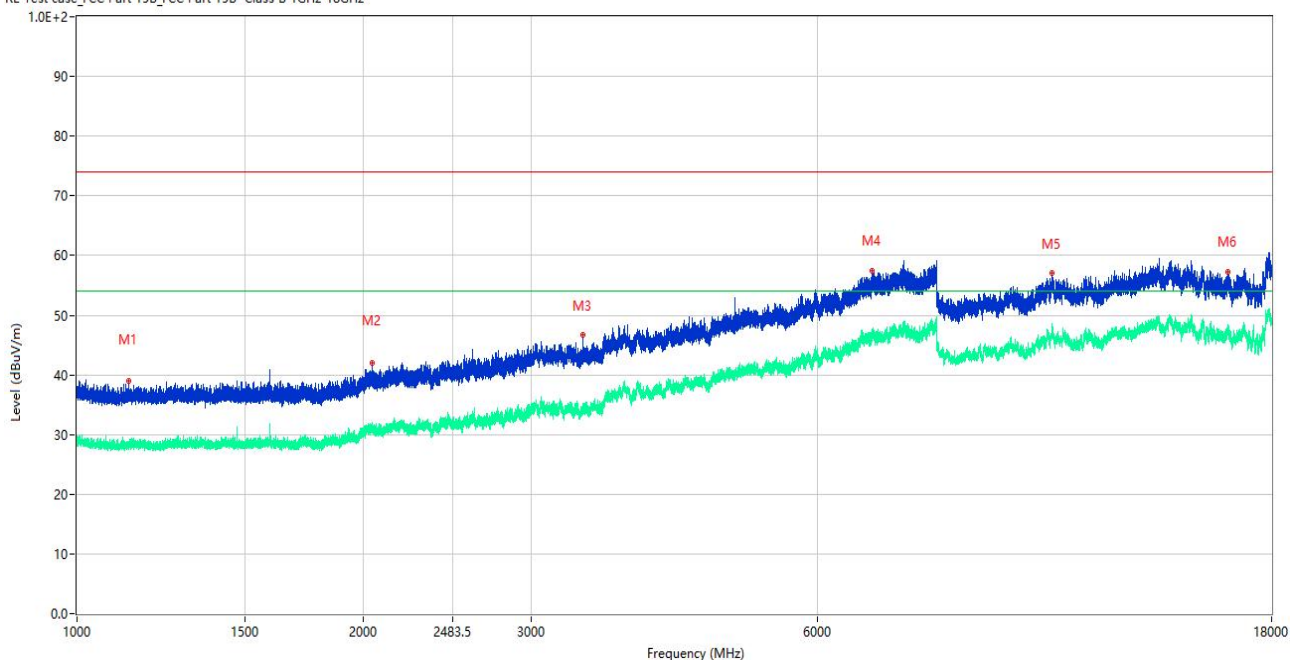
Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	BH-EMC-L132	2024.03.11	2027.03.10	☒
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

Sample No.	SC-SH2490096-S07	Temperature	20.4°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Tong Yingying	Test Date	2025.09.17

Test Mode 1

A.1.5 Test Antenna Vertical, 1 GHz – 18 GHz

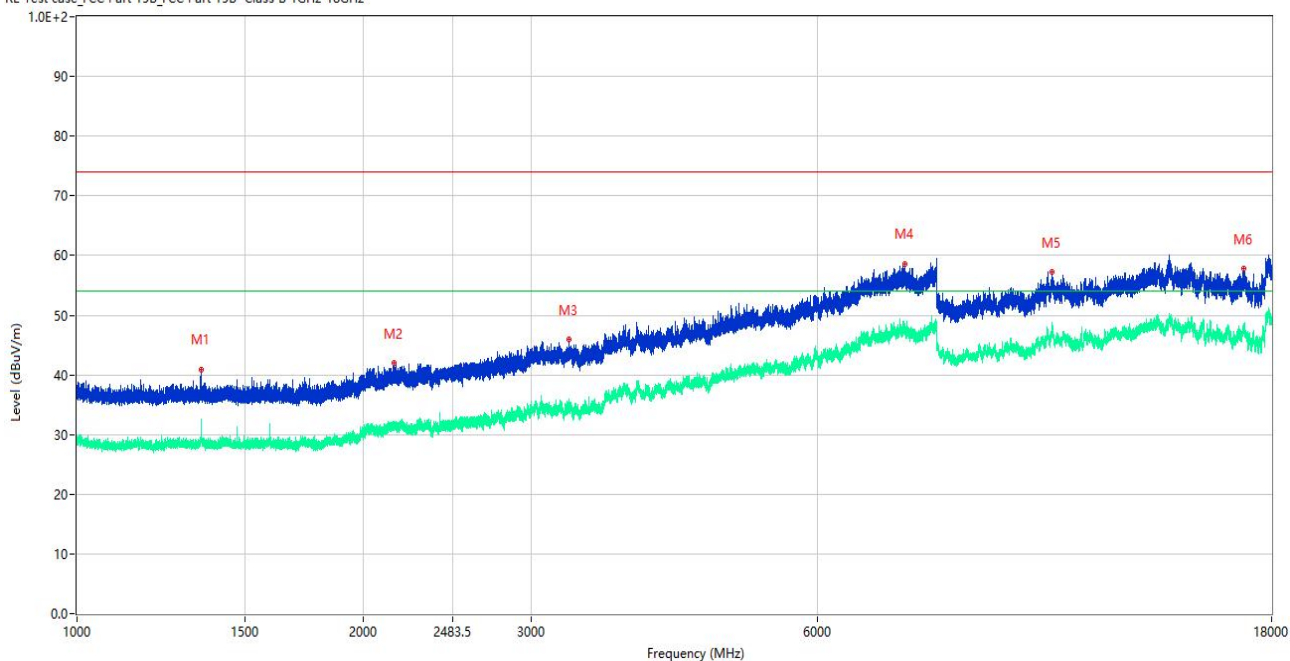
RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1134.000	38.90	-16.01	74.0	35.10	Peak	124.00	100	Vertical	Pass
1**	1134.000	28.65	-16.01	54.0	25.35	AV	124.00	100	Vertical	Pass
2	2041.400	41.97	-13.43	74.0	32.03	Peak	286.00	100	Vertical	Pass
2**	2041.400	31.06	-13.43	54.0	22.94	AV	286.00	100	Vertical	Pass
3	3399.750	46.77	-6.34	74.0	27.23	Peak	36.00	100	Vertical	Pass
3**	3399.750	34.32	-6.34	54.0	19.68	AV	36.00	100	Vertical	Pass
4	6842.000	57.40	4.70	74.0	16.60	Peak	333.00	100	Vertical	Pass
4**	6842.000	46.07	4.70	54.0	7.93	AV	333.00	100	Vertical	Pass
5	10588.500	57.03	4.99	74.0	16.97	Peak	268.00	100	Vertical	Pass
5**	10588.500	47.89	4.99	54.0	6.11	AV	268.00	100	Vertical	Pass
6	16182.000	57.19	6.22	74.0	16.81	Peak	199.00	100	Vertical	Pass
6**	16182.000	47.23	6.22	54.0	6.77	AV	199.00	100	Vertical	Pass

A.1.6 Test Antenna Horizontal, 1 GHz – 18 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



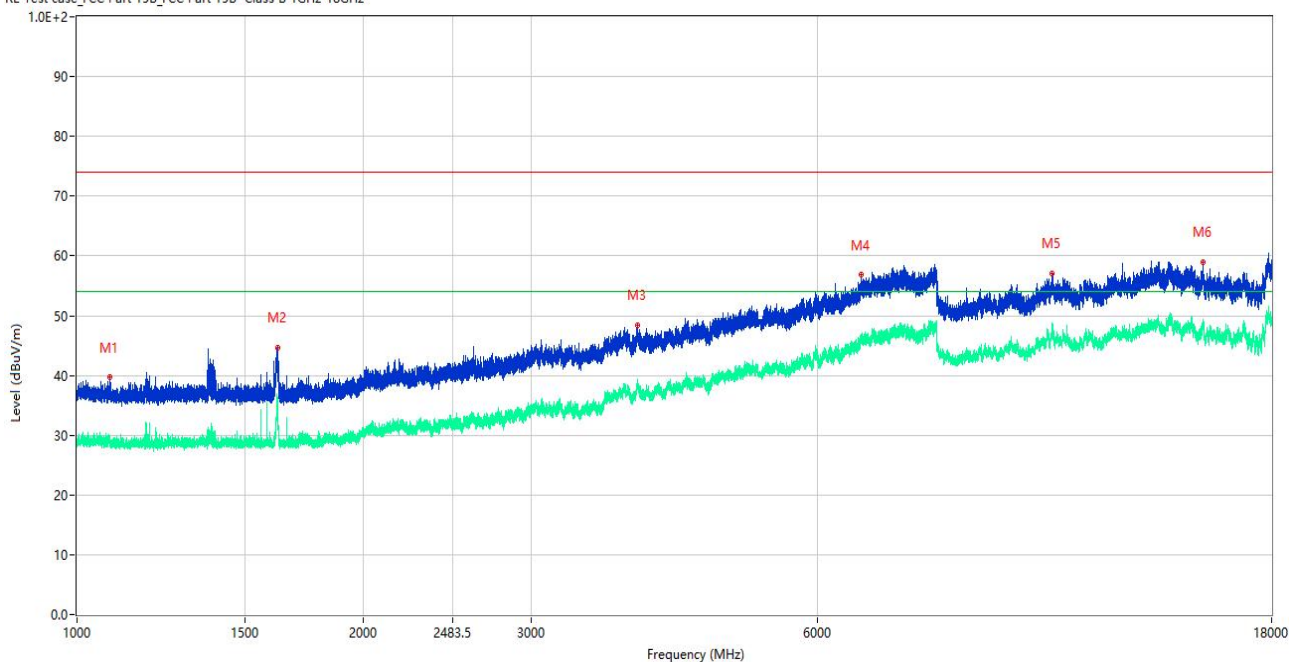
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1349.600	40.91	-15.88	74.0	33.09	Peak	28.00	100	Horizontal	Pass
1**	1349.600	31.38	-15.88	54.0	22.62	AV	28.00	100	Horizontal	Pass
2	2155.400	41.97	-12.93	74.0	32.03	Peak	306.00	100	Horizontal	Pass
2**	2155.400	31.87	-12.93	54.0	22.13	AV	306.00	100	Horizontal	Pass
3	3290.000	45.89	-6.29	74.0	28.11	Peak	154.00	100	Horizontal	Pass
3**	3290.000	33.83	-6.29	54.0	20.17	AV	154.00	100	Horizontal	Pass
4	7408.750	58.53	6.51	74.0	15.47	Peak	147.00	100	Horizontal	Pass
4**	7408.750	47.35	6.51	54.0	6.65	AV	147.00	100	Horizontal	Pass
5	10590.000	57.20	5.05	74.0	16.80	Peak	296.00	100	Horizontal	Pass
5**	10590.000	47.79	5.05	54.0	6.21	AV	296.00	100	Horizontal	Pass
6	16836.500	57.82	6.85	74.0	16.18	Peak	172.00	100	Horizontal	Pass
6**	16836.500	47.27	6.85	54.0	6.73	AV	172.00	100	Horizontal	Pass

Sample No.	SC-SH2490096-S07	Temperature	20.4°C
Humidity	51%RH	Test Voltage	DC 5V From PC
Test Engineer	Tong Yingying	Test Date	2025.09.17

Test Mode 5

A.1.7 Test Antenna Vertical, 1 GHz – 18 GHz

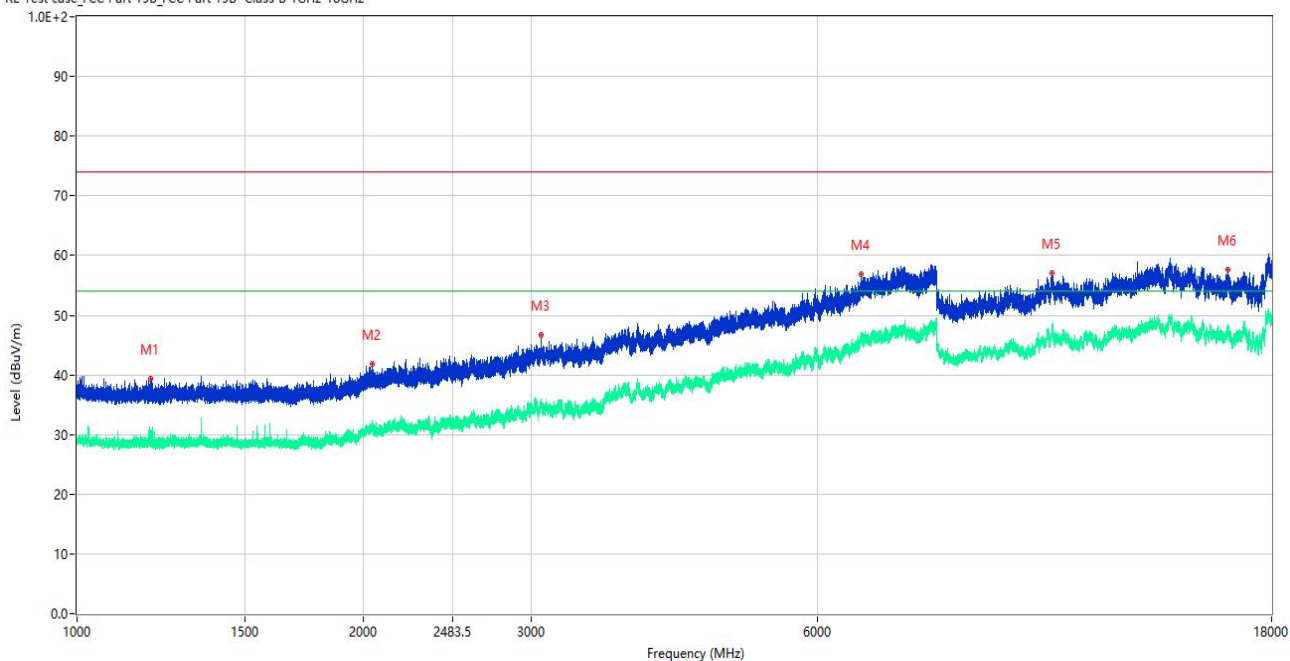
RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1082.000	39.64	-15.95	74.0	34.36	Peak	308.00	100	Vertical	Pass
1**	1082.000	28.73	-15.95	54.0	25.27	AV	308.00	100	Vertical	Pass
2	1625.200	44.68	-16.31	74.0	29.32	Peak	194.00	100	Vertical	Pass
2**	1625.200	33.51	-16.31	54.0	20.49	AV	194.00	100	Vertical	Pass
3	3880.000	48.32	-2.58	74.0	25.68	Peak	202.00	100	Vertical	Pass
3**	3880.000	39.07	-2.58	54.0	14.93	AV	202.00	100	Vertical	Pass
4	6674.750	56.90	4.03	74.0	17.10	Peak	162.00	100	Vertical	Pass
4**	6674.750	46.48	4.03	54.0	7.52	AV	162.00	100	Vertical	Pass
5	10588.500	57.12	4.99	74.0	16.88	Peak	148.00	100	Vertical	Pass
5**	10588.500	48.38	4.99	54.0	5.62	AV	148.00	100	Vertical	Pass
6	15250.000	59.00	7.57	74.0	15.00	Peak	360.00	100	Vertical	Pass
6**	15250.000	47.25	7.57	54.0	6.75	AV	360.00	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 18 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1195.800	39.30	-15.99	74.0	34.70	Peak	117.00	100	Horizontal	Pass
1**	1195.800	30.44	-15.99	54.0	23.56	AV	117.00	100	Horizontal	Pass
2	2043.000	41.84	-13.44	74.0	32.16	Peak	288.00	100	Horizontal	Pass
2**	2043.000	31.52	-13.44	54.0	22.48	AV	288.00	100	Horizontal	Pass
3	3071.250	46.65	-6.99	74.0	27.35	Peak	327.00	100	Horizontal	Pass
3**	3071.250	35.14	-6.99	54.0	18.86	AV	327.00	100	Horizontal	Pass
4	6670.250	56.89	4.10	74.0	17.11	Peak	184.00	100	Horizontal	Pass
4**	6670.250	47.14	4.10	54.0	6.86	AV	184.00	100	Horizontal	Pass
5	10581.500	57.03	4.73	74.0	16.97	Peak	13.00	100	Horizontal	Pass
5**	10581.500	47.42	4.73	54.0	6.58	AV	13.00	100	Horizontal	Pass
6	16199.000	57.56	6.39	74.0	16.44	Peak	80.00	100	Horizontal	Pass
6**	16199.000	47.91	6.39	54.0	6.09	AV	80.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	☒
EMI Receiver	KEYSIGHT	N9010B	BH-EMC-L099	2025.02.12	2026.02.11	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	BH-EMC-L111	2024.03.11	2027.03.10	☒
Test Antenna-Horn	A-INFO	LB-180400-KF	BH-EMC-L061	2024.03.11	2027.03.10	☒
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

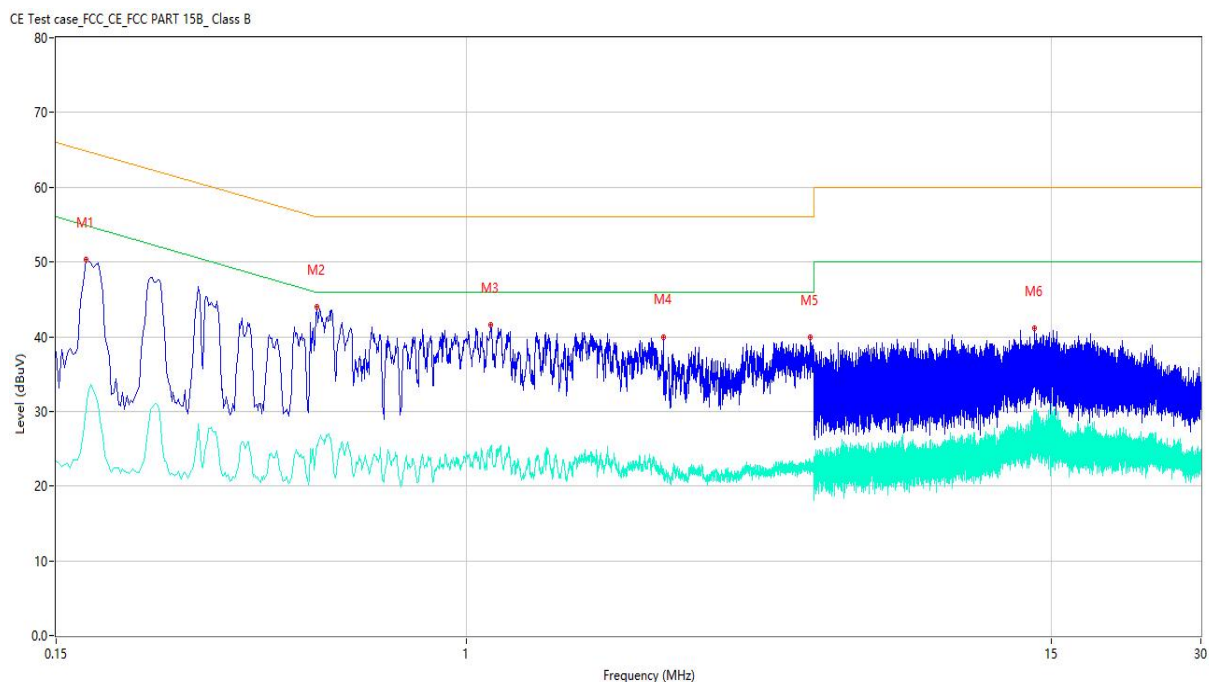
A.2 Conducted emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Sample No.	SC-SH2490096-S07	Temperature	26.6°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Tong Yingying	Test Date	2025.09.09

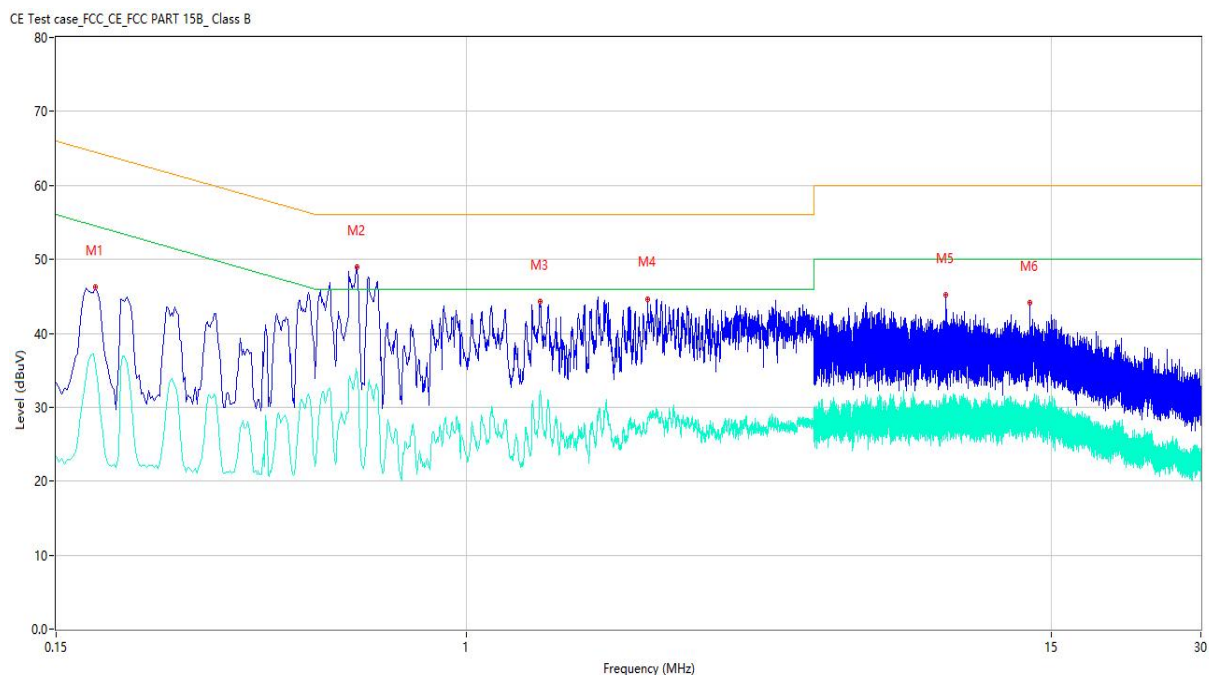
Test Mode 1

A.2.1 AC ports - L Phase



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.172	50.26	10.08	64.86	14.60	Peak	L	Pass
1**	0.172	30.27	10.08	54.86	24.59	AV	L	Pass
2	0.502	43.95	10.15	56.00	12.05	Peak	L	Pass
2**	0.502	25.39	10.15	46.00	20.61	AV	L	Pass
3	1.120	41.63	10.21	56.00	14.37	Peak	L	Pass
3**	1.120	25.28	10.21	46.00	20.72	AV	L	Pass
4	2.492	39.97	10.37	56.00	16.03	Peak	L	Pass
4**	2.492	22.22	10.37	46.00	23.78	AV	L	Pass
5	4.914	39.93	10.44	56.00	16.07	Peak	L	Pass
5**	4.914	22.89	10.44	46.00	23.11	AV	L	Pass
6	13.892	41.15	11.13	60.00	18.85	Peak	L	Pass
6**	13.892	27.74	11.13	50.00	22.26	AV	L	Pass

A.2.2 AC ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.180	46.18	10.15	64.49	18.31	Peak	N	Pass
1**	0.180	35.72	10.15	54.49	18.77	AV	N	Pass
2	0.604	48.98	10.20	56.00	7.02	Peak	N	Pass
2**	0.604	34.65	10.20	46.00	11.35	AV	N	Pass
3	1.408	44.26	10.24	56.00	11.74	Peak	N	Pass
3**	1.408	32.12	10.24	46.00	13.88	AV	N	Pass
4	2.320	44.65	10.26	56.00	11.35	Peak	N	Pass
4**	2.320	28.10	10.26	46.00	17.90	AV	N	Pass
5	9.216	45.13	10.85	60.00	14.87	Peak	N	Pass
5**	9.216	31.66	10.85	50.00	18.34	AV	N	Pass
6	13.572	44.09	11.07	60.00	15.91	Peak	N	Pass
6**	13.572	29.49	11.07	50.00	20.51	AV	N	Pass

Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	TJEMC144	2025.02.11	2026.02.10	☒
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10	☒
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10	☒
Shielded Room	YiHeng	4.1m*4.0m *3.2m	BH-EMC-L006	2024.02.22	2027.02.21	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V19.618	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2591009-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2591009-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2591009-AI.PDF”.

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--END OF REPORT--