

Test Report

Applicant : PEAG, LLC dba JLab Audio
Address : 5927 Landau Ct. Carlsbad, CA 92008, USA
Product Name : Wireless Speaker
Brand Mark : 
Model : JLab JBuds Party
Series model : N/A
FCC ID : 2AHYV-JBUDSSP
Report Number : BLA-B-EMC-202606-A85-02
Date of Receipt : Jun. 24, 2026
Date of Test : Jun. 24, 2026 to Jul. 09, 2026
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Compiled by: *Mark Chen* Review by: *Xavier*

Approved by:

Issued Date: Jul. 10, 2026



BlueAsia Technical Services(Shenzhen) Co.,Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	Jul. 10, 2026	Original

Remark:

- 1.This report CLASS II Permissive Change based on the original report.
- 2.This original report BLA-EMC-202501-A3002, (Product Name: Wireless Speaker, Model No.: JLab JBuds Party, Issued Date: Feb. 10, 2025 by BlueAsia Technical Services (Shenzhen)Co.,Ltd.).
- 3.The product change the PCB traces and electronic components, but RF chips and PCB antennas consistent with the original ones. Add below 1GHz Spurious emissions and AC Power Line Conducted Emission test. All test data come from the report of No. BLA-EMC-202501-A3002.

1 General information

1.1 General information

Applicant	PEAG, LLC dba JLab Audio
Address	5927 Landau Ct. Carlsbad, CA 92008, USA
Manufacturer	GuangDong Simpreal Intelligent Technology Co., Ltd
Address	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, Guangdong Province, P.R. China
Factory	GuangDong Simpreal Intelligent Technology Co., Ltd
Address	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13, DongCheng District, DongGuan City, Guangdong Province, P.R. China

1.2 General description of EUT

Product Name	Wireless Speaker
Model No.	JLab JBuds Party
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB antenna
Antenna Gain:	-0.58dBi (Provided by customer)
Power supply:	Battery DC 7.4V
Test Voltage:	DC 7.4V
Hardware Version	N/A
Software Version	N/A

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2 Test summary

No.	Test item	FCC standard	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.2	Pass
3	Conducted Peak Output Power	§ 15.247 (b)(1)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.5	N/A
4	20dB Bandwidth	§ 15.247 (a)(1)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.9.2	N/A
5	Conducted Band Edges Measurement	§ 15.247 (d)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.10	N/A
6	Conducted Spurious Emissions	§ 15.247 (d)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.7	N/A
7	Carrier Frequencies Separation	§ 15.247 (a)(1)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.2	N/A
8	Hopping Channel Number	§ 15.247 (a)(1) (iii)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.3	N/A
9	Dwell Time	§ 15.247 (a)(1) (iii)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 7.8.4	N/A
10	Radiated Spurious Emissions	§ 15.247 (d) § 15209	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.4,6.5,6.6	Pass
11	Radiated Emissions which fall in the restricted bands	§ 15.247 (d) § 15.205	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.10.5, 7.8.8	N/A

Remark:

N/A: The product change the PCB traces and electronic components, but RF chips and PCB antennas consistent with the original ones. Add below 1GHz Spurious emissions and AC Power Line Conducted Emission test. All test data come from the report of No. BLA-EMC-202501-A3002.

3 Test Configuration

3.1 Test mode

Test Mode ^{Note 1}	Description
TX	Keep the EUT in continuously transmitting mode with modulation. (hopping and non-hopping mode all have been tested)
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode ^{Note 2} to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software			
Test Software Name	FCC Assist		
Mode	Channel	Frequency (MHz)	Soft Set
TX	CH00	2402	TX level : Default
	CH39	2441	
	CH78	2480	

3.2 Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz

5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	--	

3.3 Test channel

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
AC adapter	PISEN	ZY2207-A521H	/	/

Note:

“--” mean no any auxiliary device during testing.

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 7.4V

4 Laboratory information

4.1 Laboratory and accreditations

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

Company name:	BlueAsia Technical Services (Shenzhen) Co.,Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyao Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
Test Firm Registration No.:	923526
ISED CAB identifier No.:	CN0028
Registration No.:	24243
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30MHz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{dB}$
Power Spectral Density, conducted	$\pm 3.0\text{dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2026/05/31	2027/05/30
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2026/05/31	2027/05/30
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2025/11/12	2026/11/11
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2025/08/05	2026/08/04
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2026/05/31	2027/05/30
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2025/08/05	2026/08/04
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2026/05/25	2027/05/24
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2026/05/25	2027/05/24
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2026/05/25	2027/05/24
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2026/05/25	2027/05/24
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2026/05/31	2027/05/30
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

Conducted Emissions

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2025/11/12	2026/11/11
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-011	LISN	ENV216	R&S	101372	2025/08/05	2026/08/04
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2026/05/25	2027/05/24
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK180600003	2025/08/05	2026/08/04
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2025/08/05	2026/08/04
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01045	2026/05/25	2027/05/24
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01075	2026/05/25	2027/05/24
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

Test Software Record:

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE

6 Test result

6.1 Antenna requirement

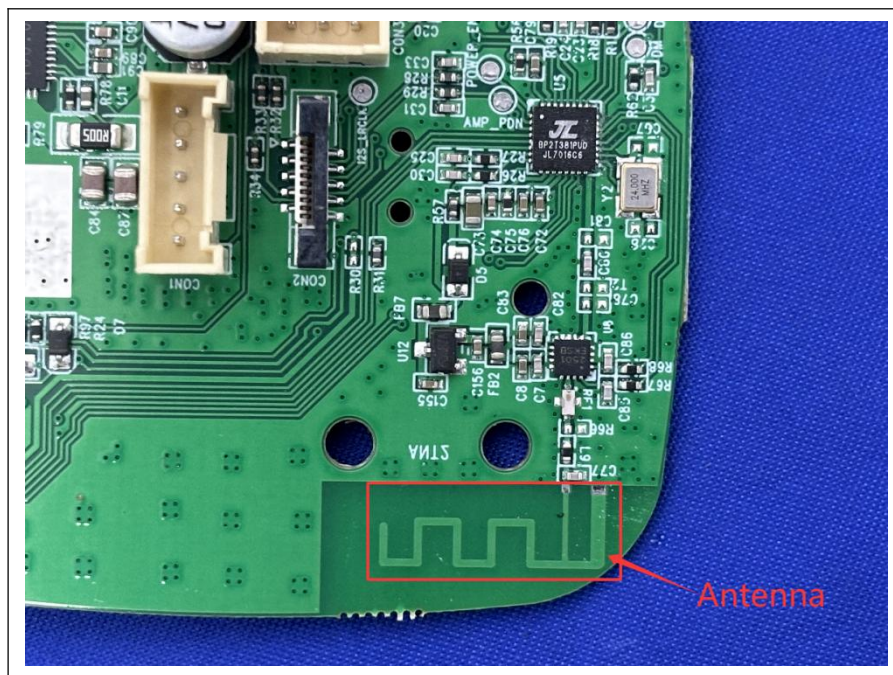
Test Standard	47 CFR Part 15, Subpart C 15.203
Test Method	N/A

6.1.1 Requirement

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

EUT antenna:

The antenna is PCB antenna. The best case gain of the antenna is -0.58dBi.



6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

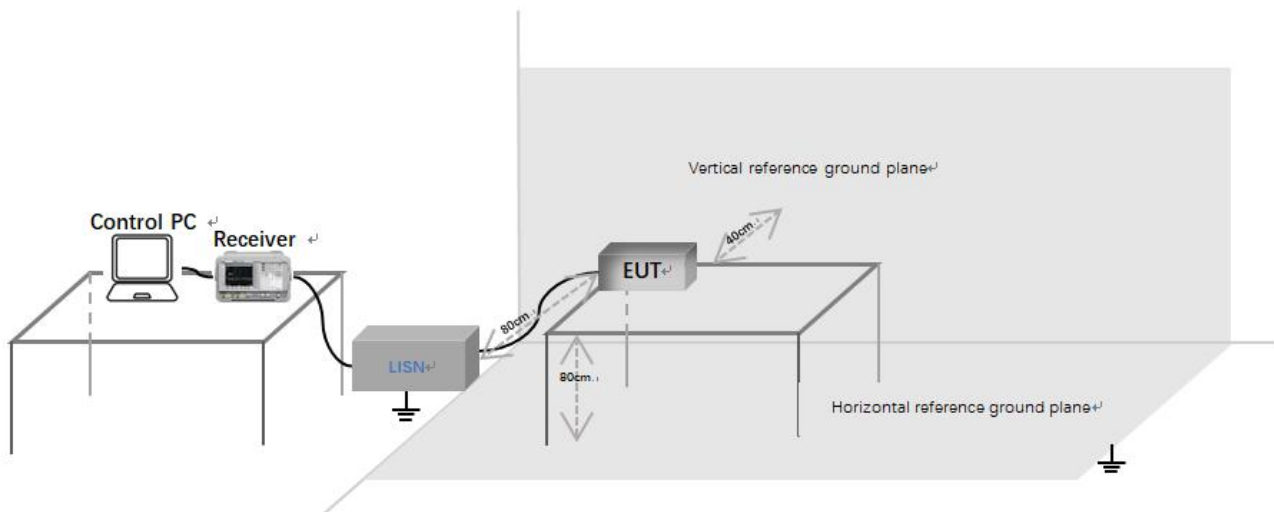
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.2.1 Limit

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

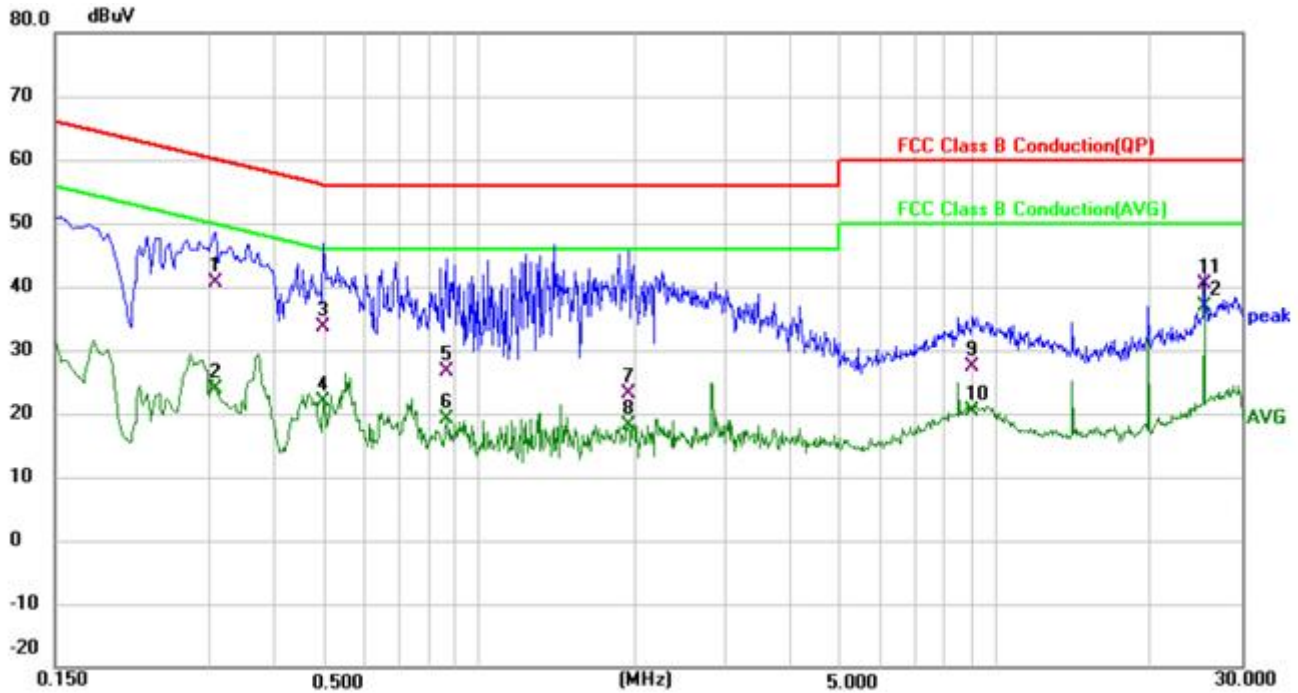
6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

6.2.4 Test data

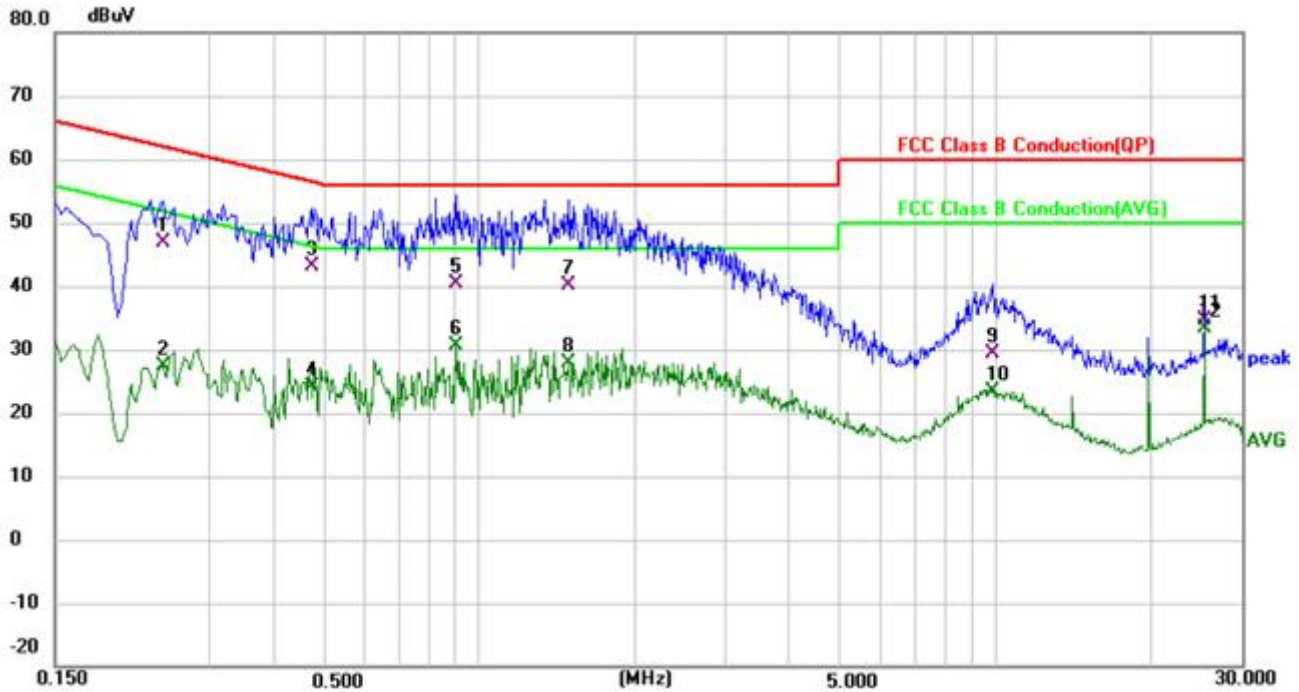
[Test Mode: TX]; [Line: Line];[Voltage:AC 120V/60Hz]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3060	31.13	9.60	40.73	60.08	-19.35	QP
2		0.3060	14.38	9.60	23.98	50.08	-26.10	AVG
3		0.4980	24.11	9.62	33.73	56.03	-22.30	QP
4		0.4980	12.34	9.62	21.96	46.03	-24.07	AVG
5		0.8660	17.07	9.67	26.74	56.00	-29.26	QP
6		0.8660	9.38	9.67	19.05	46.00	-26.95	AVG
7		1.9420	13.42	9.68	23.10	56.00	-32.90	QP
8		1.9420	8.43	9.68	18.11	46.00	-27.89	AVG
9		9.0380	17.59	9.87	27.46	60.00	-32.54	QP
10		9.0380	10.54	9.87	20.41	50.00	-29.59	AVG
11		25.4140	30.30	9.96	40.26	60.00	-19.74	QP
12	*	25.4140	26.93	9.96	36.89	50.00	-13.11	AVG

Test Result: Pass

[Test Mode: TX]; [Line: Neutral] ;[Voltage:AC 120V/60Hz]



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.2420	36.89	10.06	46.95	62.03	-15.08	QP
2	0.2420	17.44	10.06	27.50	52.03	-24.53	AVG
3 *	0.4700	33.55	9.62	43.17	56.51	-13.34	QP
4	0.4700	14.46	9.62	24.08	46.51	-22.43	AVG
5	0.9020	30.77	9.67	40.44	56.00	-15.56	QP
6	0.9020	20.96	9.67	30.63	46.00	-15.37	AVG
7	1.4900	30.54	9.68	40.22	56.00	-15.78	QP
8	1.4900	18.27	9.68	27.95	46.00	-18.05	AVG
9	9.9100	19.59	9.90	29.49	60.00	-30.51	QP
10	9.9100	13.49	9.90	23.39	50.00	-26.61	AVG
11	25.4100	24.66	9.98	34.64	60.00	-25.36	QP
12	25.4100	23.43	9.98	33.41	50.00	-16.59	AVG

Test Result: Pass

6.3 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.3, 6.5,6.6,11.12.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

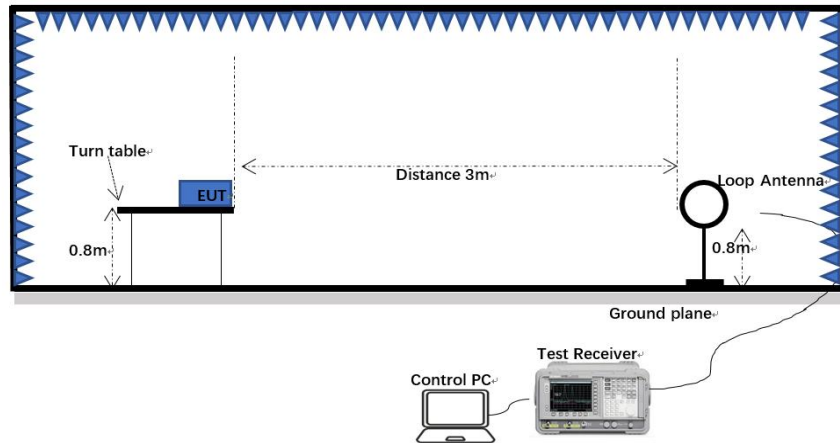
6.3.1 Limit

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

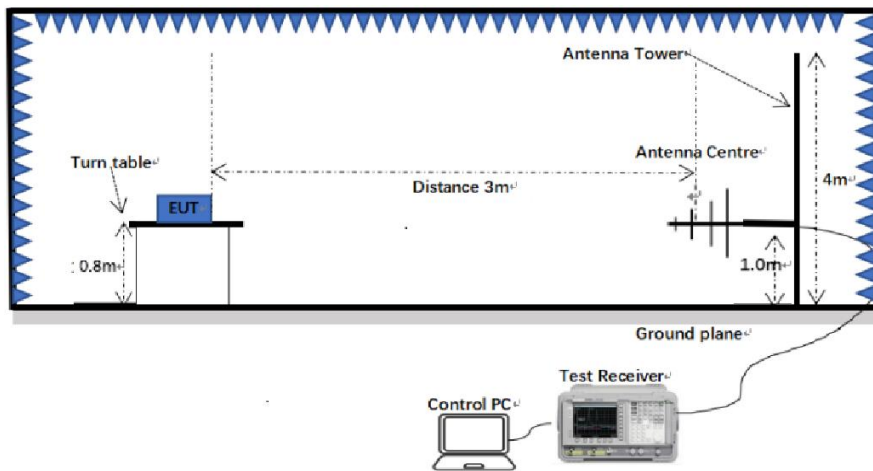
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.3.2 Test setup

Below 1GHz:



30MHz-1GHz:



6.3.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note 1: Scan from 9 kHz to 1GHz, The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

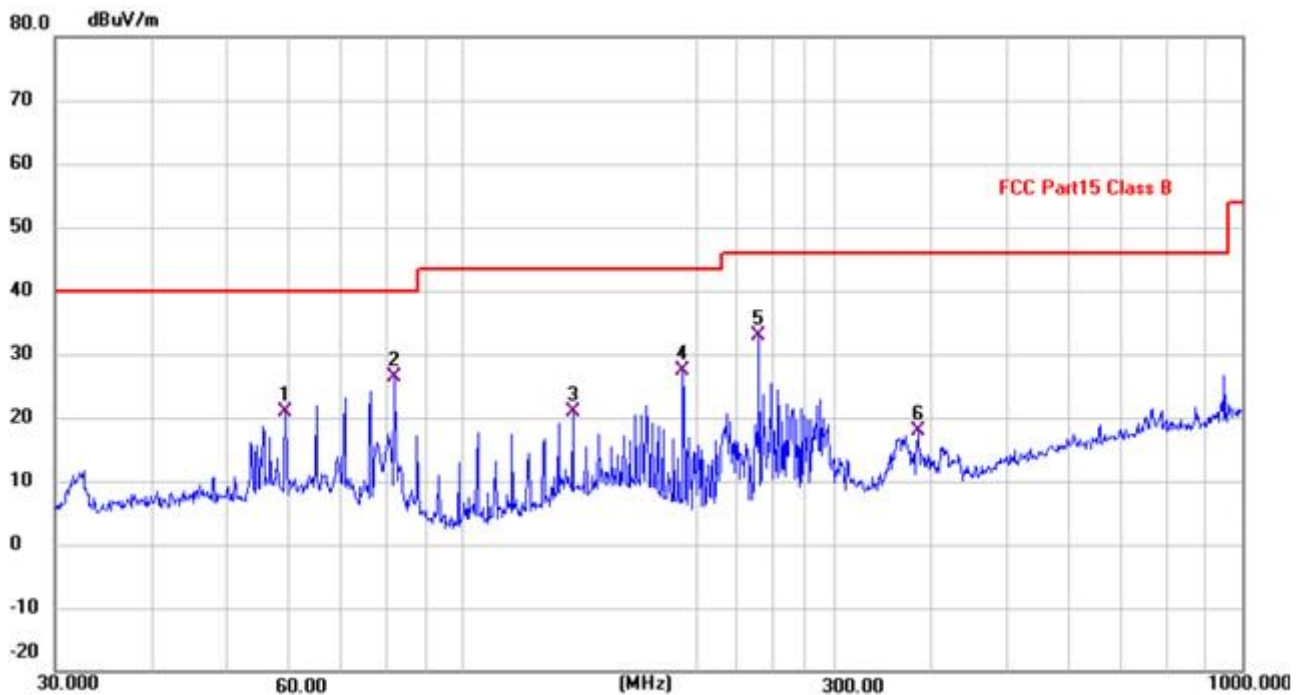
$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.3.4 Test data

Below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel for GFSK was recorded in the report.

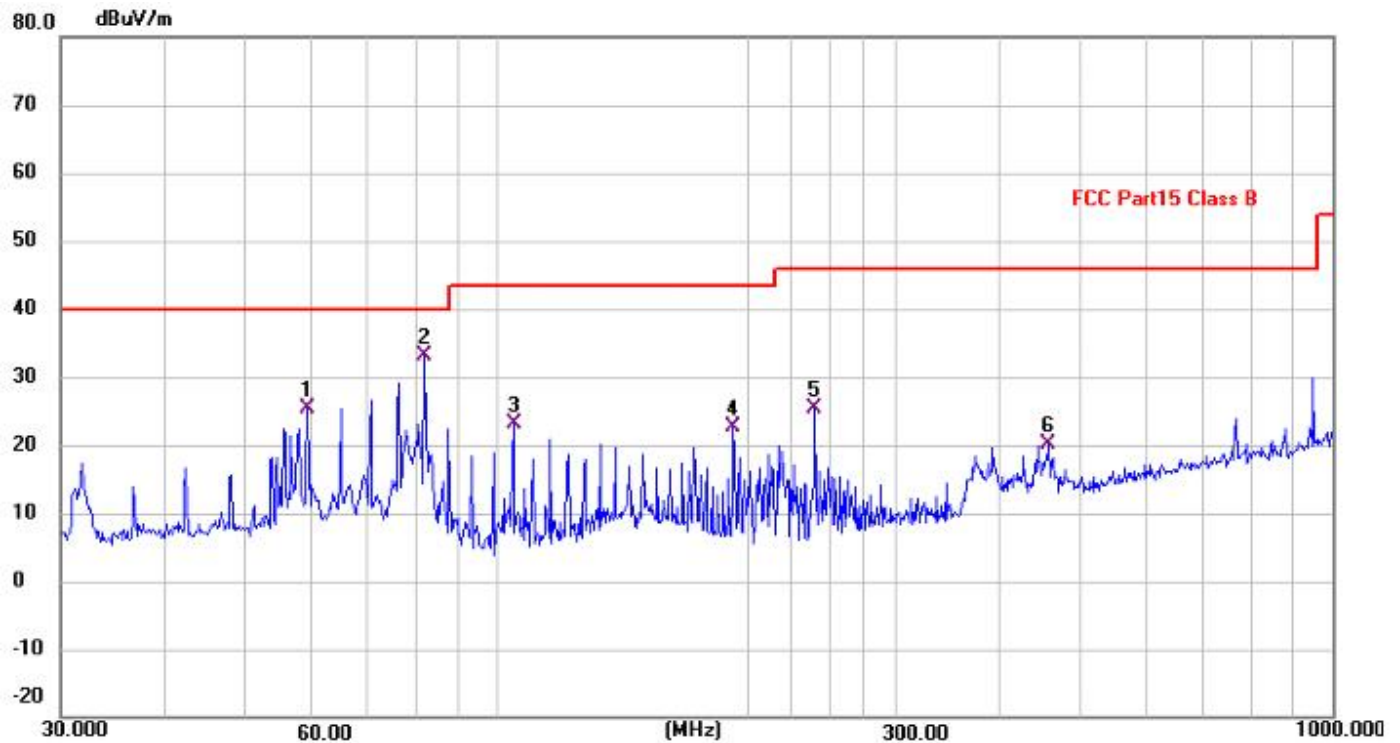
[Test mode: TX]; [Polarity: Horizontal]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	59.2324	36.36	-15.49	20.87	40.00	-19.13	QP
2	81.7832	46.13	-19.67	26.46	40.00	-13.54	QP
3	138.3873	37.33	-16.50	20.83	43.50	-22.67	QP
4	191.7450	45.62	-18.28	27.34	43.50	-16.16	QP
5 *	239.9873	50.45	-17.60	32.85	46.00	-13.15	QP
6	383.9318	32.19	-14.35	17.84	46.00	-28.16	QP

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]

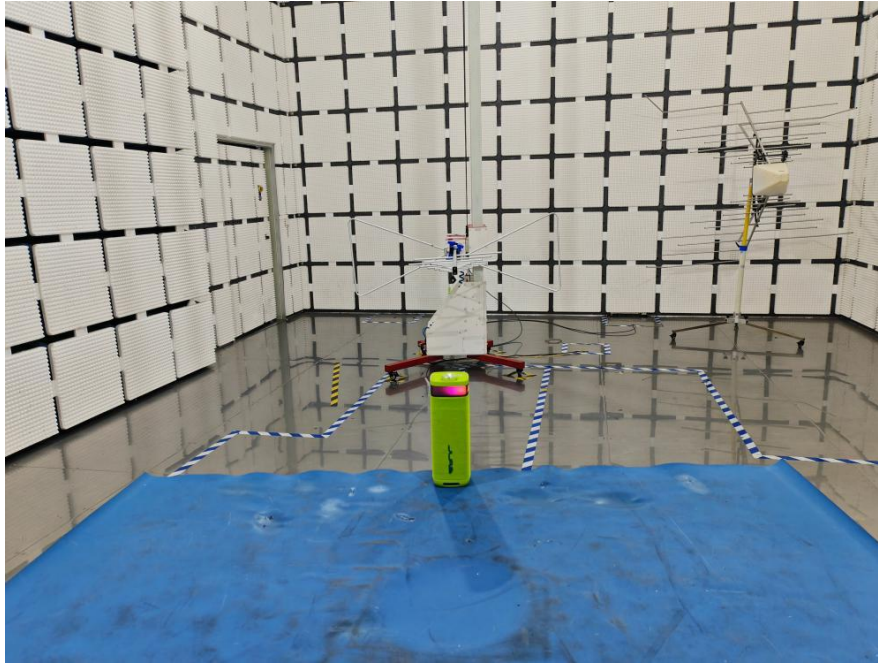


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	59.2325	40.97	-15.49	25.48	40.00	-14.52	QP
2 *	81.7833	52.81	-19.67	33.14	40.00	-6.86	QP
3	104.5361	43.94	-20.89	23.05	43.50	-20.45	QP
4	191.7450	40.82	-18.28	22.54	43.50	-20.96	QP
5	239.9874	42.89	-17.60	25.29	46.00	-20.71	QP
6	457.5073	32.94	-12.92	20.02	46.00	-25.98	QP

Test Result: Pass

Appendix B: photographs of test setup

Radiated Emissions (30MHz-1GHz)



Conducted Emissions at Mains Terminals (150 kHz-30MHz)



Appendix C: photographs of EUT

Reference to the test report no. BLA-B-EMC-20206-A85-01.

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

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