



RF TEST REPORT

Product Name: Wireless Microphone

Model Name: BKW-12

FCC ID: 2BBZH-BKW-12

Issued For : Guangzhou Caihui Technology Co., Ltd
Room 502, Building 1, No. 4 Shuiniu Road, Tan Village, Shijing
Street, Baiyun District, Guangzhou, China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177,
Renmin West Road, Jinsha, Kengzi Street, Pingshan District,
Shenzhen, Guangdong, China

Report Number: LGT24L101RF01

Sample Received Date: Dec. 26, 2024

Date of Test: Dec. 26, 2024 ~ Feb. 24, 2025

Date of Issue: Feb. 24, 2025

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TEST REPORT CERTIFICATION

Applicant: Guangzhou Caihui Technology Co., Ltd
Address: Room 502, Building 1, No. 4 Shuiniu Road, Tan Village, Shijing Street, Baiyun District, Guangzhou, China

Manufacturer: Guangzhou Caihui Technology Co., Ltd
Address: Room 502, Building 1, No. 4 Shuiniu Road, Tan Village, Shijing Street, Baiyun District, Guangzhou, China

Product Name: Wireless Microphone

Trademark: LEKATO

Model Name: BKW-12

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.249, Subpart C ANSI C63.10-2013	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





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Revision History

Rev.	Issue Date	Contents
00	Feb. 24, 2025	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.249	Radiated Spurious Emission	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
15.249	20dB Bandwidth	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Wireless Microphone	
Trademark:	LEKATO	
Model Name:	BKW-12	
Series Model:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	902.8-926.8 MHz
	Modulation Type:	DQPSK
	Number Of Channel:	30
	Antenna Designation:	PCB
	Antenna Gain (dBi)	0
Channel List	Please refer to the Note 3	
Battery:	DC 1.5V*2	
Hardware Version:	V2.0	
Software Version:	V1.0	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Channel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	902.8	16	915.6
2	903.6	17	916.4
3	904.4	18	917.2
4	905.2	19	918
5	906	20	918.8
6	906.8	21	919.6
7	907.6	22	920.4
8	908.4	23	921.2
9	909.2	24	922
10	910	25	922.8
11	910.8	26	923.6
12	911.6	27	924.4
13	912.4	28	925.2
14	913.2	29	926
15	914	30	926.8



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Frequency (MHz)
Mode 1	902.8
Mode 2	914.0
Mode 3	926.8

Note:

(1) All above mode has been measurement, only worst data was reported.

(2) We have be tested for all available U.S. voltage and frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program:	
Engineering Mode	Mode Or Modulation type	Power setting
	DQPSK	Default



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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.

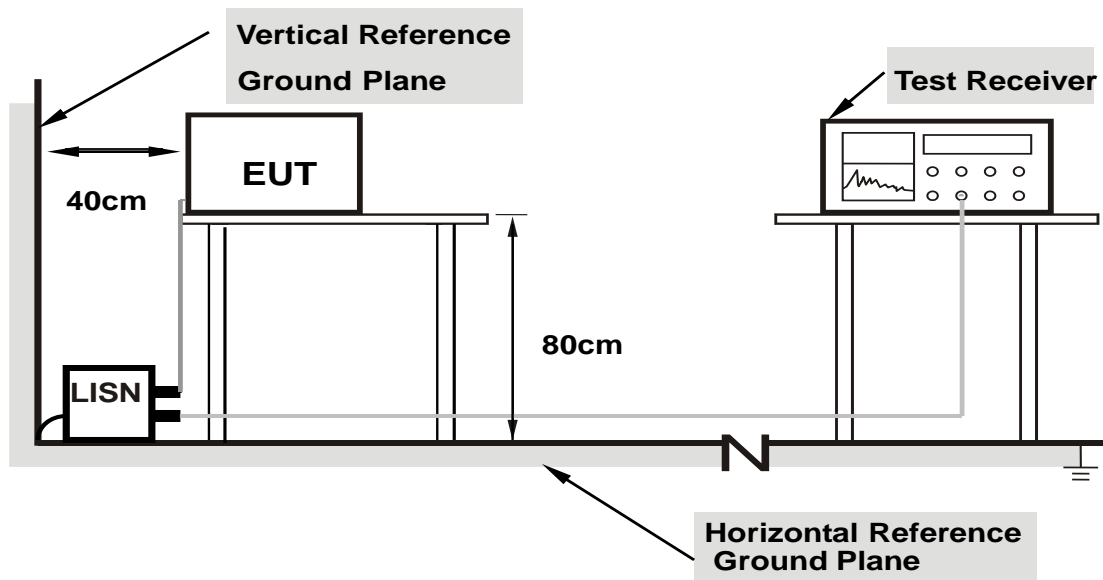
The following table is the setting of the receiver

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 is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 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 is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 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 support units.

3.4 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.

3.5 TEST RESULTS

EUT is battery powered and not applicable.



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249, Part 15.209(a) limit in the table below has to be followed.

Standard FCC 15.209

Frequencies (MHz)	Field Strength (micovolts/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
960~1000	500	3
Above 1000	Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	3

Standard FCC 15.249

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

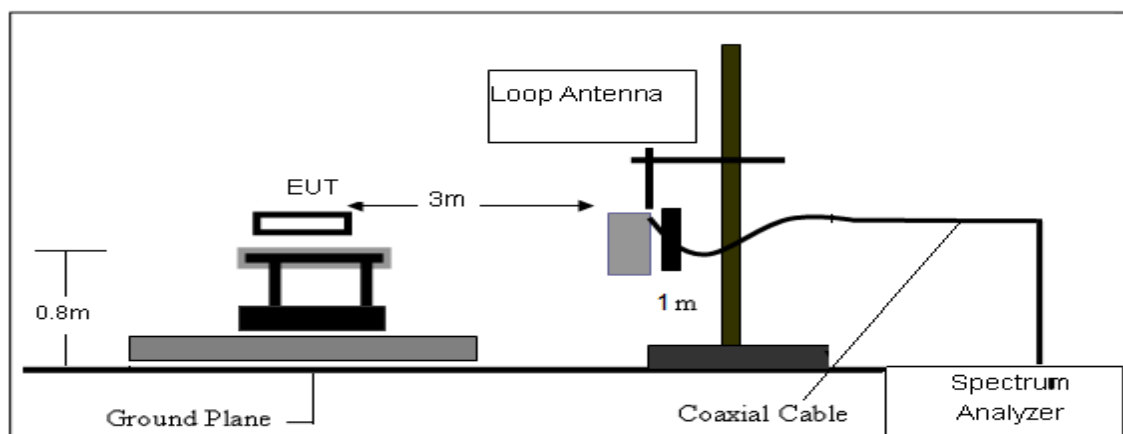
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

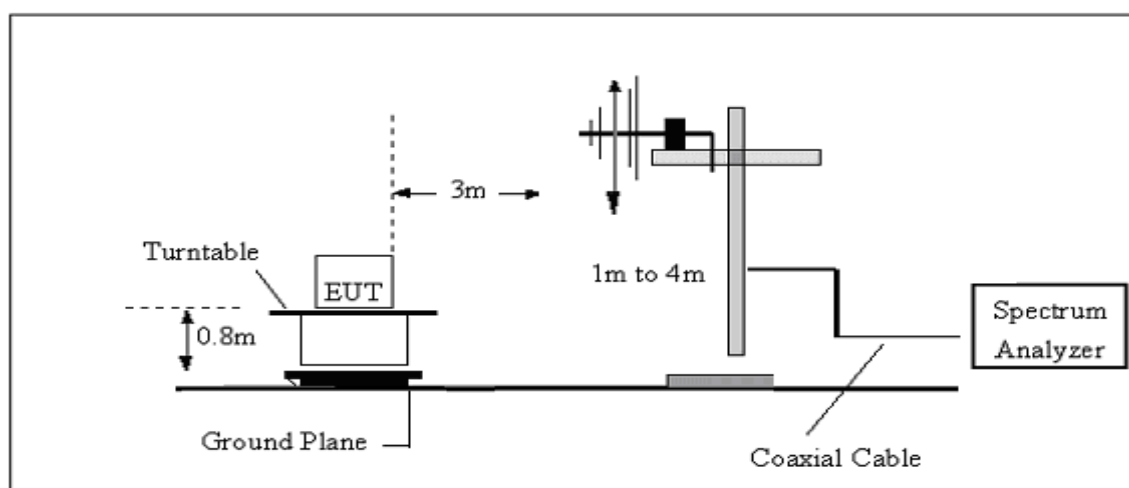
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

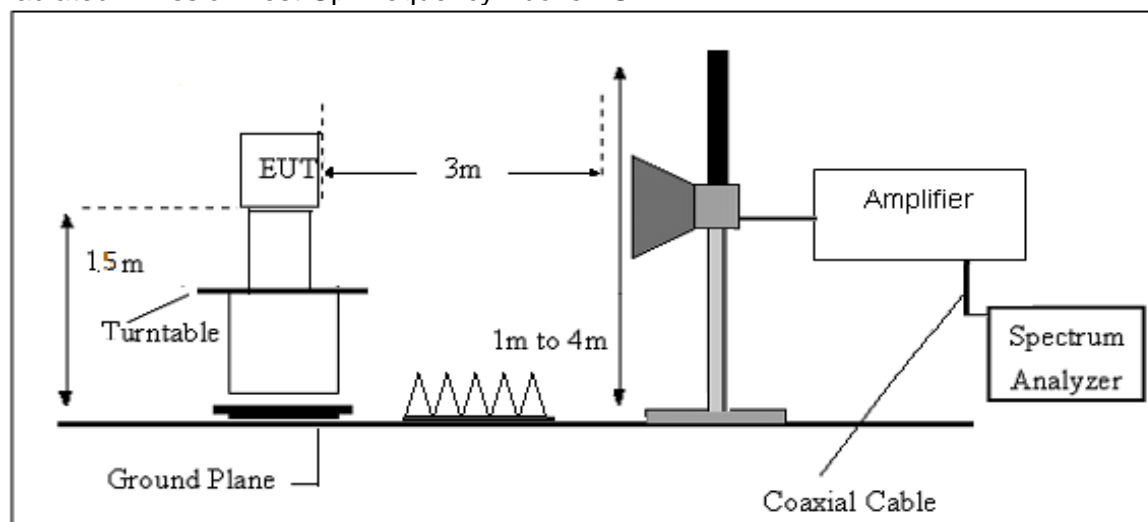
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

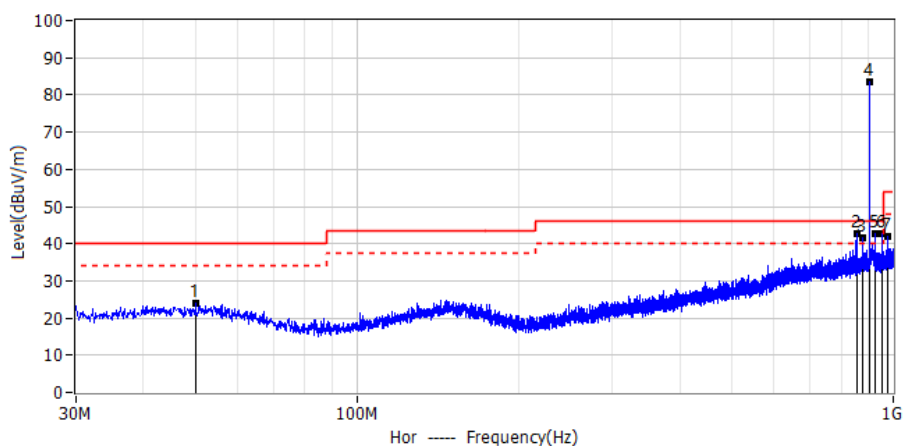
$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



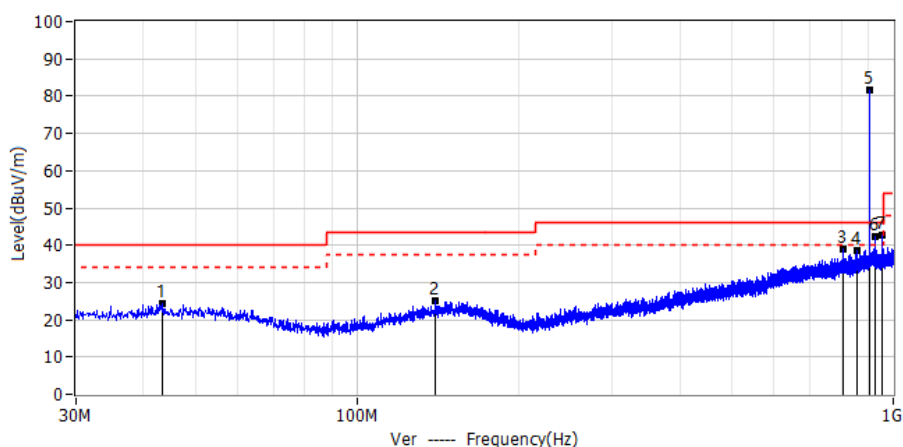
4.6 TEST RESULTS

Results of Radiated Emissions (30MHz~1000MHz)

Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 902.8	
Note:	



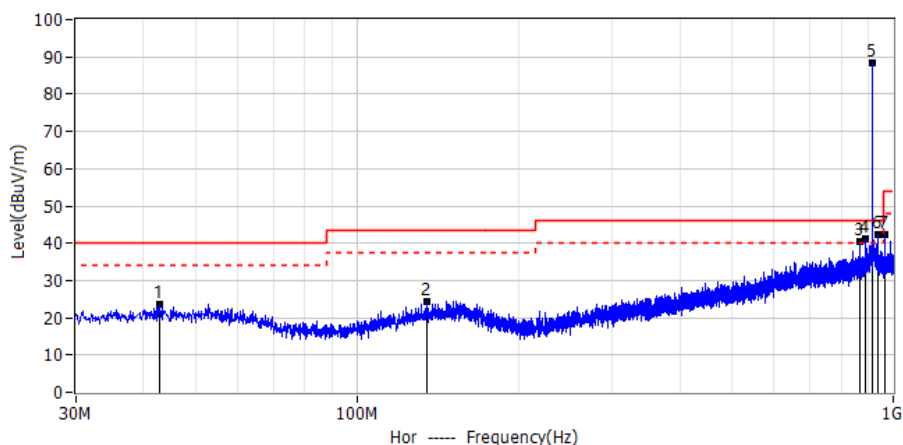
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	50.128	3.56	20.40	23.96	40.00	-16.04	QP	Hor
2*	853.773	10.19	32.54	42.73	46.00	-3.27	QP	Hor
3*	878.265	8.50	32.93	41.43	46.00	-4.57	QP	Hor
4*	902.879	50.20	33.14	83.34	93.98	-10.64	QP	Hor
5*	927.371	9.75	33.13	42.88	46.00	-3.12	QP	Hor
6*	951.985	9.00	33.74	42.74	46.00	-3.26	QP	Hor
7*	976.599	8.11	33.78	41.89	54.00	-12.11	QP	Hor



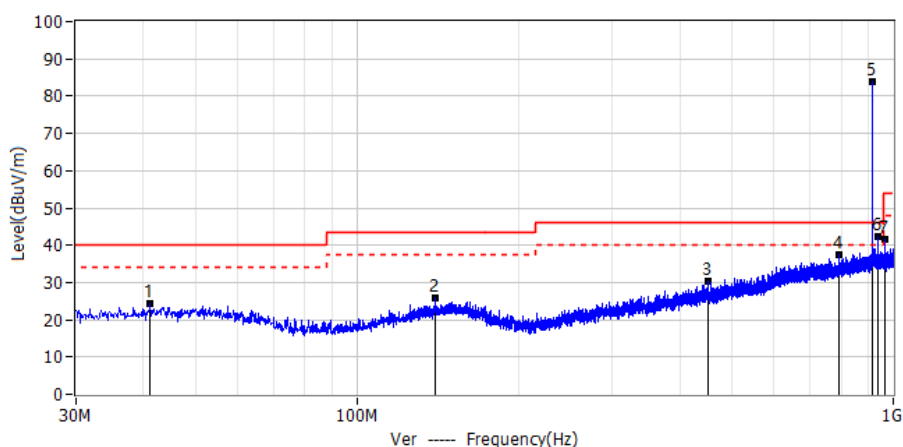
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	43.338	3.51	20.77	24.28	40.00	-15.72	QP	Ver
2*	140.338	3.86	21.12	24.98	43.50	-18.52	QP	Ver
3*	804.545	6.94	31.98	38.92	46.00	-7.08	QP	Ver
4*	853.651	6.06	32.54	38.60	46.00	-7.40	QP	Ver
5*	902.879	48.53	33.14	81.67	93.98	-12.31	QP	Ver
6*	927.371	9.04	33.13	42.17	46.00	-3.83	QP	Ver
7*	951.985	9.14	33.74	42.88	46.00	-3.12	QP	Ver



Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 914	
Note:	



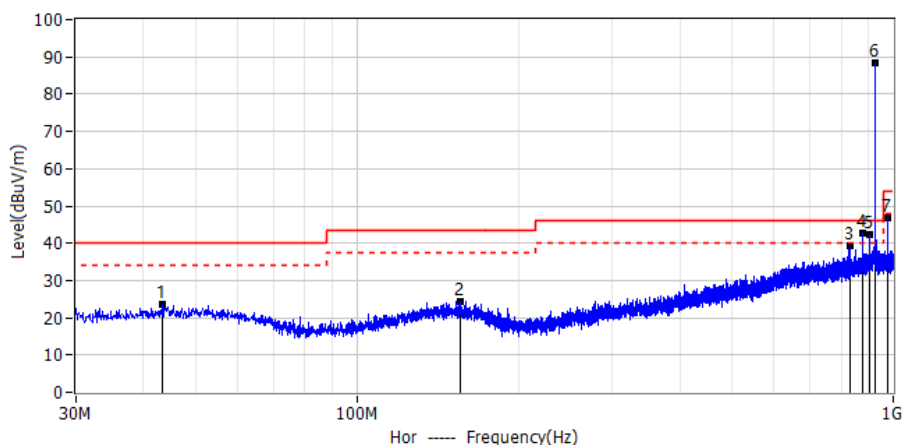
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.974	2.91	20.80	23.71	40.00	-16.29	QP	Hor
2*	135.488	3.71	20.68	24.39	43.50	-19.11	QP	Hor
3*	864.806	7.71	32.75	40.46	46.00	-5.54	QP	Hor
4*	889.420	7.80	33.28	41.08	46.00	-4.92	QP	Hor
!5*	914.034	55.51	32.92	88.43	93.98	-5.55	QP	Hor
6*	938.648	8.87	33.27	42.14	46.00	-3.86	QP	Hor
7*	963.140	8.92	33.53	42.45	54.00	-11.55	QP	Hor



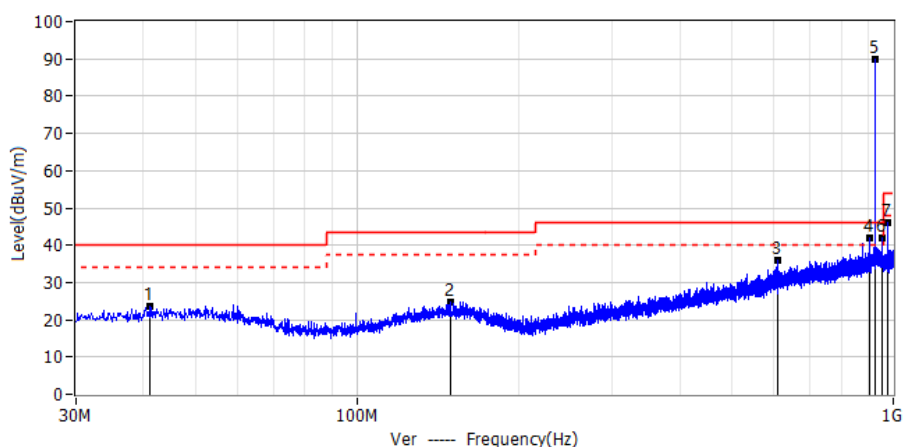
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	41.276	3.89	20.42	24.31	40.00	-15.69	QP	Ver
2*	140.095	4.94	21.07	26.01	43.50	-17.49	QP	Ver
3*	452.435	4.52	25.91	30.43	46.00	-15.57	QP	Ver
4*	792.420	6.02	31.58	37.60	46.00	-8.40	QP	Ver
!5*	914.034	50.96	32.92	83.88	93.98	-10.11	QP	Ver
6*	938.648	9.04	33.27	42.31	46.00	-3.69	QP	Ver
7*	963.140	8.22	33.53	41.75	54.00	-12.25	QP	Ver



Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 926.8	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	43.338	2.76	20.77	23.53	40.00	-16.47	QP	Hor
2*	155.979	2.69	21.71	24.40	43.50	-19.10	QP	Hor
3*	828.553	7.38	32.05	39.43	46.00	-6.57	QP	Hor
4*	877.659	9.70	32.90	42.60	46.00	-3.40	QP	Hor
5*	902.151	9.03	33.14	42.17	46.00	-3.83	QP	Hor
!6*	926.886	55.23	33.10	88.33	93.98	-5.65	QP	Hor
7*	975.993	13.00	33.77	46.77	54.00	-7.23	QP	Hor

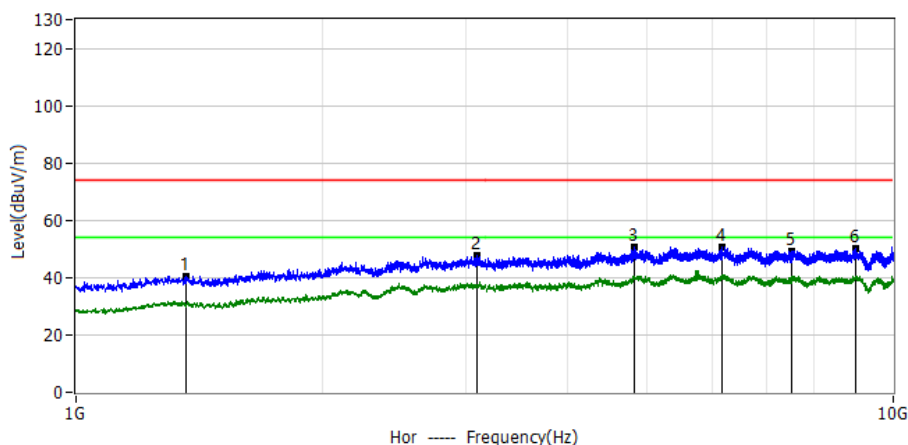


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	41.155	3.08	20.40	23.48	40.00	-16.52	QP	Ver
2*	149.189	3.14	21.55	24.69	43.50	-18.81	QP	Ver
3*	607.393	7.27	28.83	36.10	46.00	-9.90	QP	Ver
4*	902.273	8.75	33.14	41.89	46.00	-4.11	QP	Ver
!5*	926.886	56.74	33.10	89.84	93.98	-4.14	QP	Ver
6*	951.500	8.17	33.72	41.89	46.00	-4.11	QP	Ver
7*	975.993	12.34	33.77	46.11	54.00	-7.89	QP	Ver

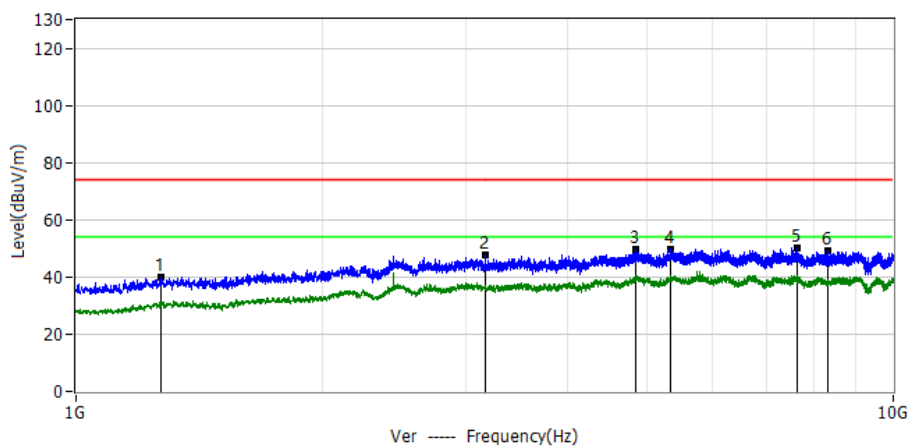


Results of Radiated Emissions (1GHz~10GHz)

Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 902.8	
Note:	



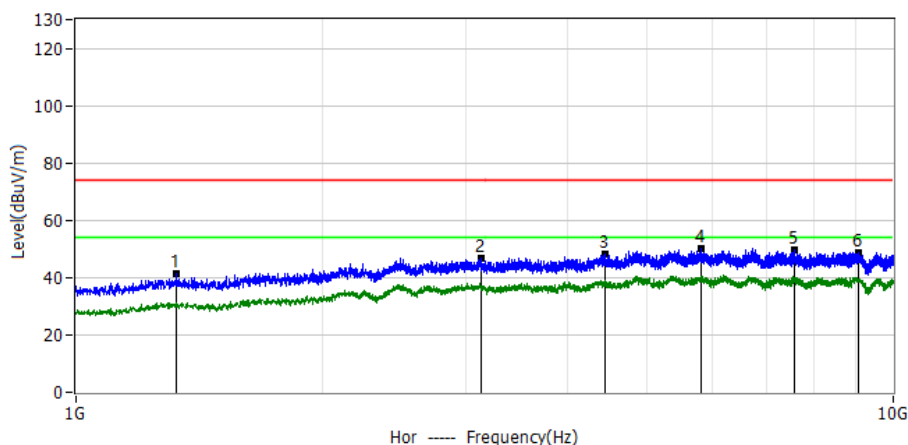
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1365.6000	62.29	-21.71	40.58	74.00	-33.42	PK	Hor
2*	3092.5000	56.11	-8.63	47.48	74.00	-26.52	PK	Hor
3*	4823.9000	56.62	-6.09	50.53	74.00	-23.47	PK	Hor
4*	6181.7000	58.30	-7.49	50.81	74.00	-23.19	PK	Hor
5*	7522.7000	57.81	-8.40	49.41	74.00	-24.59	PK	Hor
6*	8993.1000	58.16	-8.11	50.05	74.00	-23.95	PK	Hor



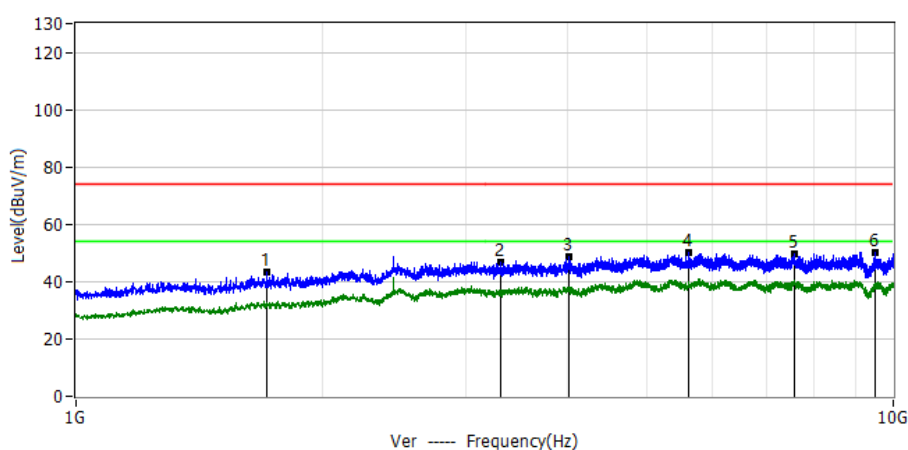
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1272.2000	62.57	-22.50	40.07	74.00	-33.93	PK	Ver
2*	3167.9000	56.17	-8.52	47.65	74.00	-26.35	PK	Ver
3*	4847.5000	55.86	-6.08	49.78	74.00	-24.22	PK	Ver
4*	5329.0000	56.44	-6.58	49.86	74.00	-24.14	PK	Ver
5*	7622.9000	59.01	-8.67	50.34	74.00	-23.66	PK	Ver
6*	8326.0000	58.21	-9.16	49.05	74.00	-24.95	PK	Ver



Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 914	
Note:	



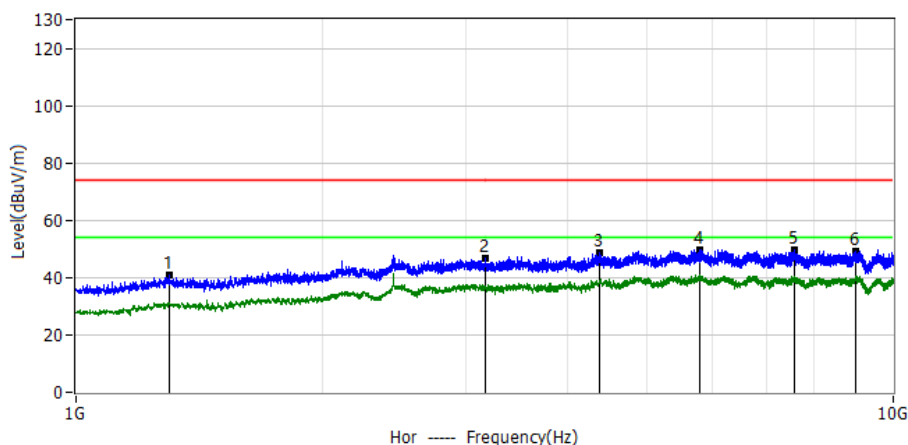
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1328.5000	63.41	-22.02	41.39	74.00	-32.61	PK	Hor
2*	3130.7000	55.22	-8.58	46.64	74.00	-27.36	PK	Hor
3*	4439.1000	54.52	-6.34	48.18	74.00	-25.82	PK	Hor
4*	5811.6000	57.25	-7.19	50.06	74.00	-23.94	PK	Hor
5*	7573.4000	58.26	-8.54	49.72	74.00	-24.28	PK	Hor
6*	9059.5000	56.79	-8.01	48.78	74.00	-25.22	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1712.1000	62.15	-18.90	43.25	74.00	-30.75	PK	Ver
2*	3313.0000	55.11	-8.32	46.79	74.00	-27.21	PK	Ver
3*	4015.0000	55.73	-6.83	48.90	74.00	-25.10	PK	Ver
4*	5614.7000	57.13	-7.00	50.13	74.00	-23.87	PK	Ver
5*	7581.2000	58.42	-8.56	49.86	74.00	-24.14	PK	Ver
6*	9485.9000	57.43	-7.34	50.09	74.00	-23.91	PK	Ver

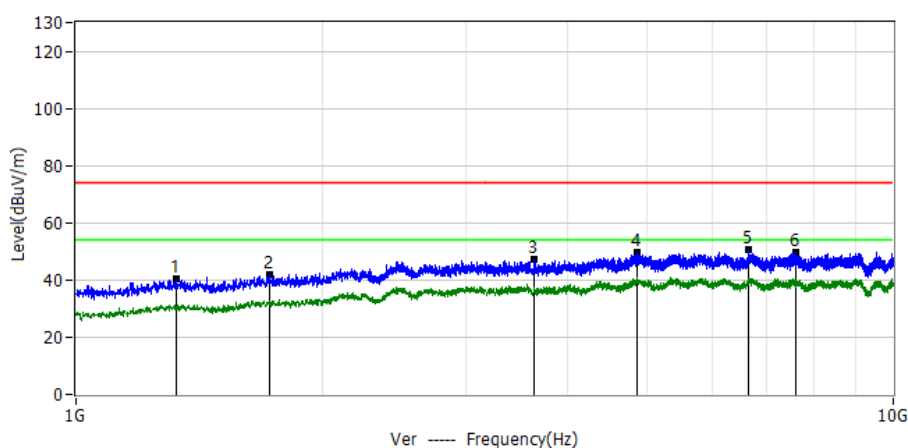


Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 926.8	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1299.2000	62.96	-22.27	40.69	74.00	-33.31	PK	Hor
2*	3172.4000	55.20	-8.52	46.68	74.00	-27.32	PK	Hor
3*	4367.1000	54.91	-6.42	48.49	74.00	-25.51	PK	Hor
4*	5788.0000	56.91	-7.17	49.74	74.00	-24.26	PK	Hor
5*	7567.7000	58.42	-8.52	49.90	74.00	-24.10	PK	Hor
6*	9007.7000	57.50	-8.09	49.41	74.00	-24.59	PK	Hor

Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 926.8	
Note:	

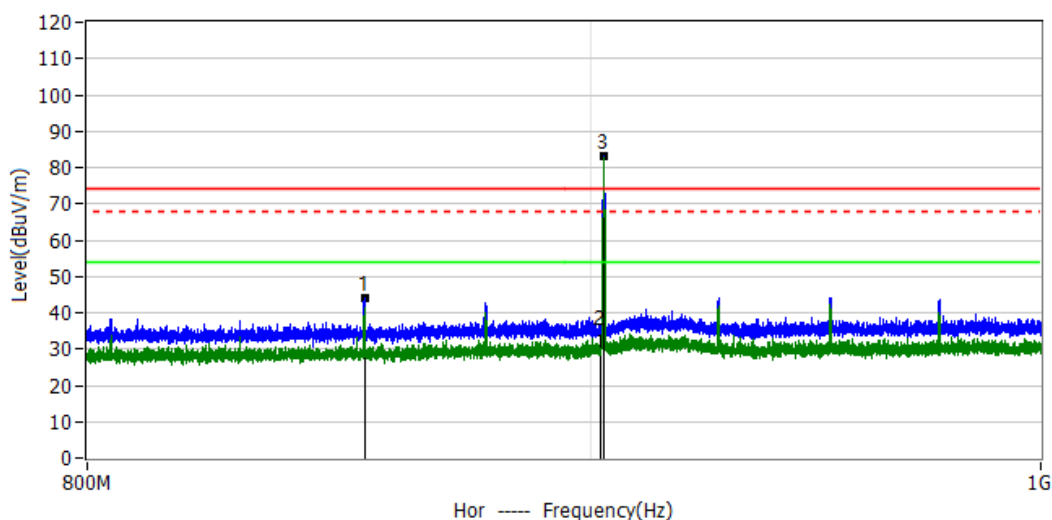


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1325.1000	62.29	-22.05	40.24	74.00	-33.76	PK	Ver
2*	1722.2000	60.68	-18.79	41.89	74.00	-32.11	PK	Ver
3*	3631.4000	54.74	-7.74	47.00	74.00	-27.00	PK	Ver
4*	4855.4000	55.96	-6.07	49.89	74.00	-24.11	PK	Ver
5*	6657.6000	58.23	-7.82	50.41	74.00	-23.59	PK	Ver
6*	7589.1000	58.05	-8.58	49.47	74.00	-24.53	PK	Ver

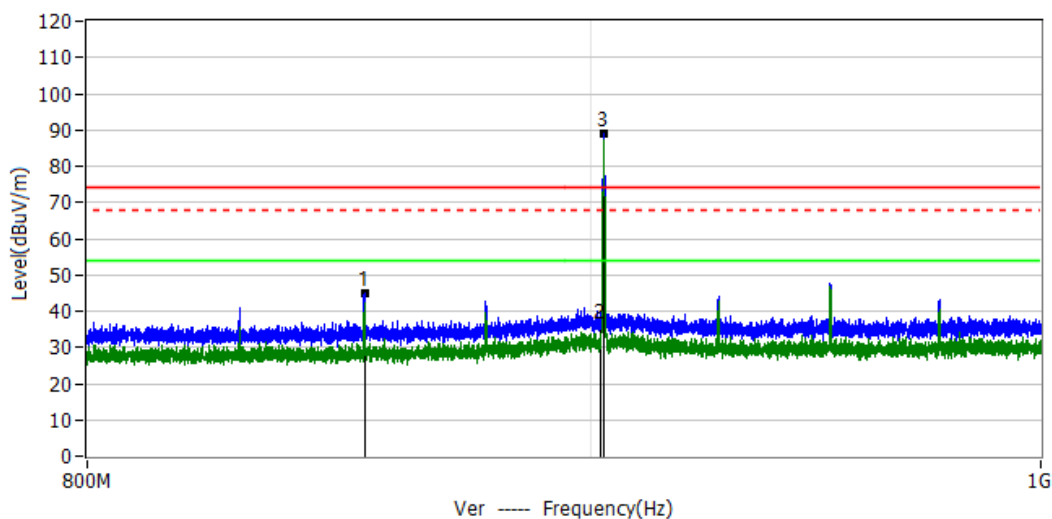


BAND EDGE REQUIREMENTS

Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 902.8	
Note:	



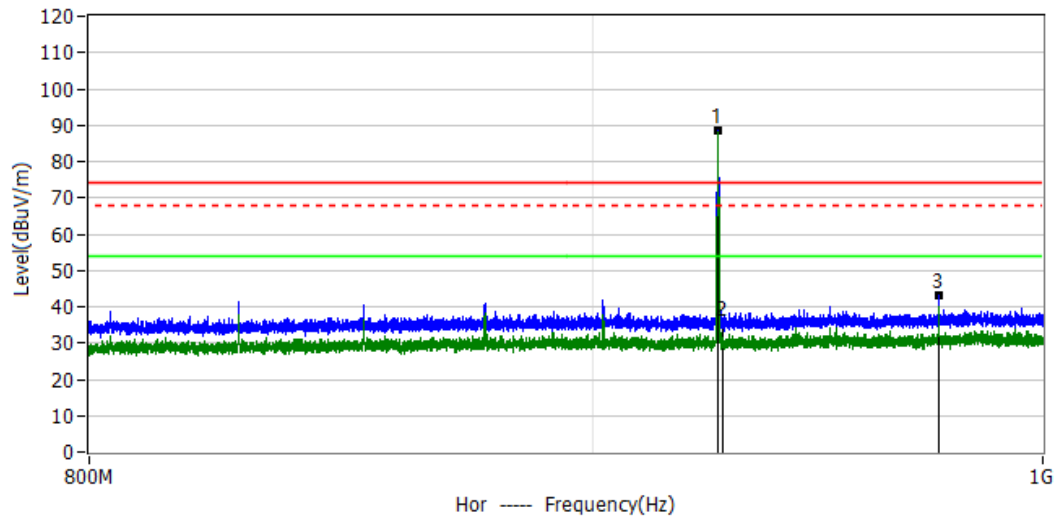
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	853.600	11.39	32.54	43.93	74.00	-30.07	PK	Hor
2*	902.000	1.56	33.14	34.70	74.00	-39.30	PK	Hor
!3*	902.825	50.11	33.14	83.25	74.00	9.25	PK	Hor



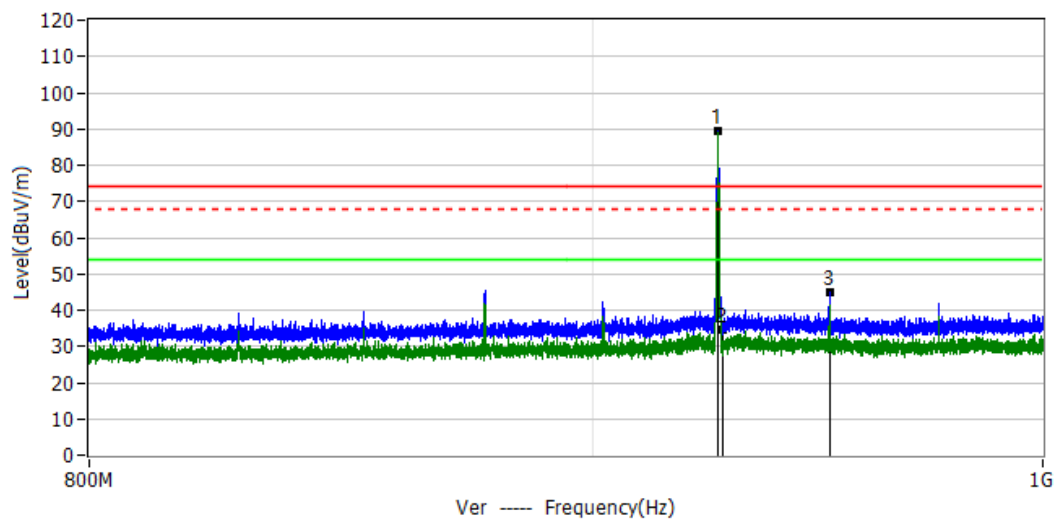
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	853.650	12.44	32.54	44.98	74.00	-29.02	PK	Ver
2*	902.000	2.86	33.14	36.00	74.00	-38.00	PK	Ver
!3*	902.825	55.94	33.14	89.08	74.00	15.08	PK	Ver



Project: LGT24L101	Test Engineer: LiuH
EUT: Wireless Microphone	Temperature: 21.8°C
M/N: BKW-12	Humidity: 50%RH
Test Voltage: Battery	Test Data: 2025-02-24
Test Mode: 926.8	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	926.775	55.63	33.09	88.72	74.00	14.72	PK	Hor
2*	928.000	2.33	33.17	35.50	74.00	-38.50	PK	Hor
3*	975.975	9.45	33.77	43.22	74.00	-30.78	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	926.775	56.25	33.09	89.34	74.00	15.34	PK	Ver
2*	928.000	1.23	33.17	34.40	74.00	-39.60	PK	Ver
3*	951.300	11.09	33.71	44.80	74.00	-29.20	PK	Ver



5. BANDWIDTH TEST

5.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting : RBW= 10KHz, VBW \geq RBW, Sweep time = Auto.

5.2 TEST SETUP



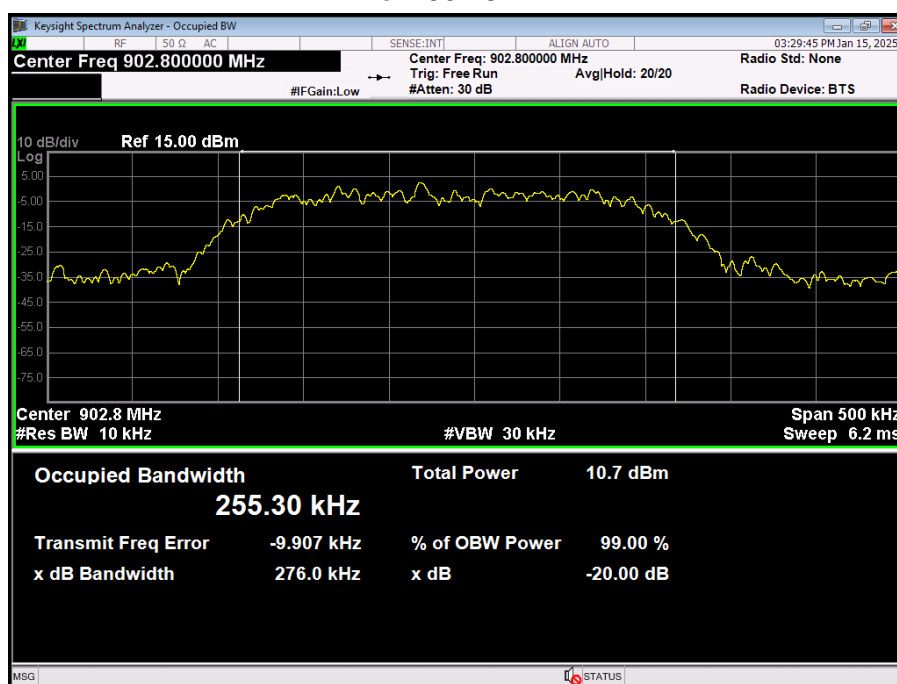
5.3 EUT OPERATION CONDITIONS

TX mode.

5.4 TEST RESULTS

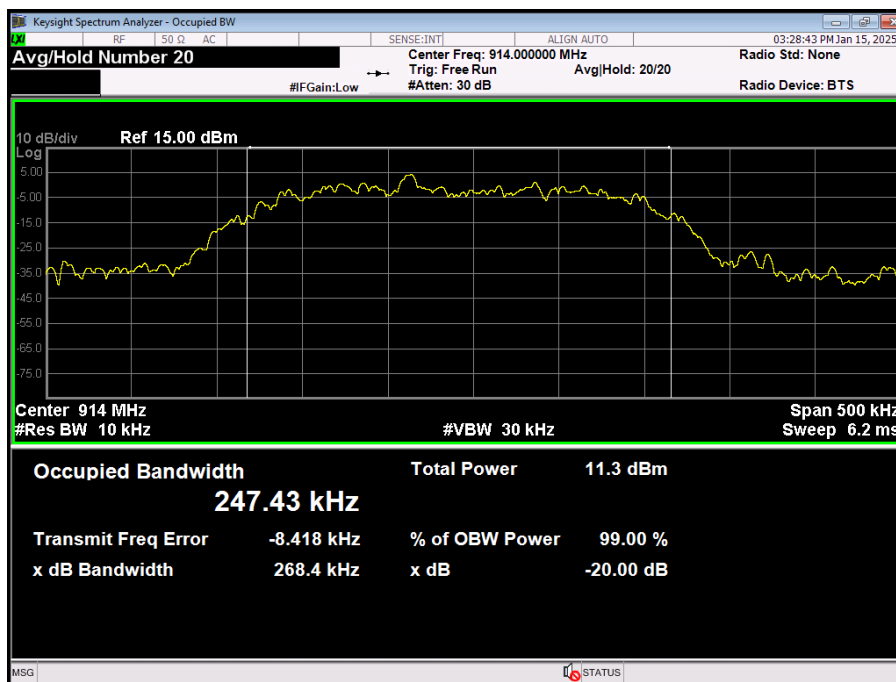
Condition	Frequency (MHz)	-20dB Bandwidth (KHz)	99% Bandwidth (KHz)
NVNT	902.8	276.0	255.30
NVNT	914	268.4	247.43
NVNT	926.8	265.7	250.51

Low-902.8MHz

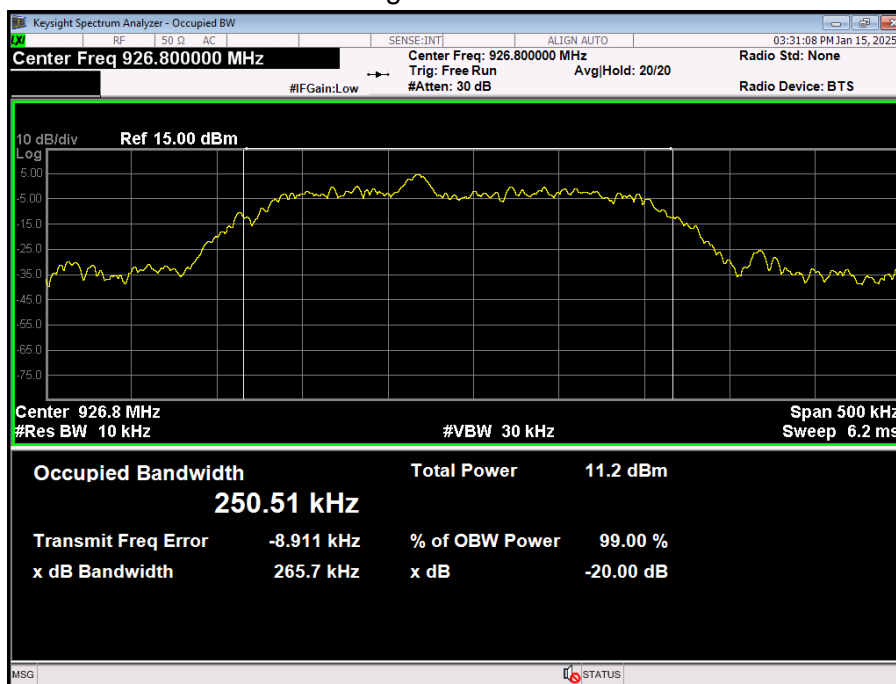




Mid-914MHz



High-902.8MHz





6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

6.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



APPENDIX I - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached BKW-12_EUT Photos.

※※※※※END OF THE REPORT※※※※※