FCC PART 15.249

TEST REPORT

For

Shenzhen Lococo Technology Co., Ltd.

RM602, Bldg A, Huayuan Tech Park, Baoyuan Road, Bao'an District, Shenzhen, Guangdong, China

FCC ID: 2AWA2-LG-01

Report Type:	Product Name:
Original	Wireless Audio Amplification System

Report Number:	2507P32040E-RF-01
Report Date:	2025-02-14
Reviewed By:	Ash Lin
Approved By:	Miles Chen
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507P32040E-RF-01	R1V1	2025-02-14	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shenzhen Lococo Technology Co., Ltd
Product Name:	Wireless Audio Amplification System
Tested Model:	LG-01
Power Supply:	DC 3.7V from Battery or DC 5V from Adapter
RF Function:	SRD
Operating Band/Frequency:	902.8MHz, 903.6MHz, 904.4MHz, 905.2MHz
Channel Number:	4
Modulation Type:	FM
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	0dBi
Note: *1. The maximum antenna gain is provided by the applicant.* *2. All measurement and test data in this report was gathered from production sample serial number: 2X7I-1 (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2025-01-08)*	

Objective

This test report is prepared for *Shenzhen Lococo Technology Co., Ltd* in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209, 15.215 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Item		U_{lab}
Conducted Emissions	150kHz-30MHz(LISN)	2.33 dB
Radiated Disturbance	9kHz~30MHz	2.59 dB
	30MHz~200MHz	4.38 dB
	200MHz ~1GHz	4.50 dB
	1GHz~6GHz	4.58 dB
	6GHz~18GHz	5.43 dB
Occupied Bandwidth		0.053 kHz
Temperature		1℃
Humidity		5%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, FCC Registration No.: 485720, the FCC Designation No.: CN1384.

SYSTEM TEST CONFIGURATION

Test Mode and Voltage

The system was configured for testing in a typical mode (as normally used by a typical user).	
Test mode:	Test Model 1: Transmitting
Test voltage:	DC 5V from Adapter (AC120V/60Hz) or DC 3.7V from Battery
Remark:	During all emission tests, the EUT was configured to measure its highest possible emission level and the worst case's test data was presented in this test report.

Justification

The system was configured in testing mode which was provided by manufacturer.

Channel List:

EUT was tested with channel 1,3 and 4.

Channel	Frequency (MHz)
1	902.8
2	903.6
3	904.4
4	905.2

EUT Exercise Software

Engineering Mode was provided by manufacturer.

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

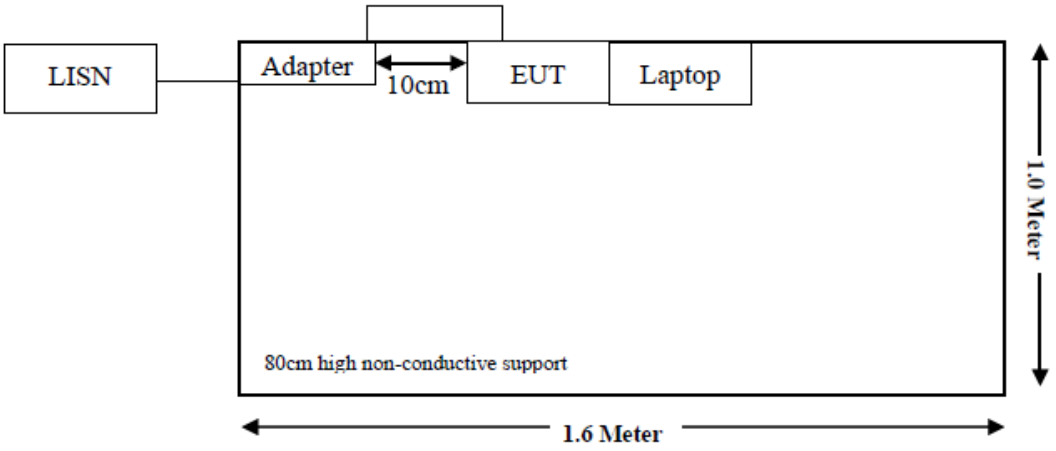
Manufacturer	Description	Model	Serial Number
CARREGADOR PORTATIL	Adapter	S64A38BL	222700047954T4
Lenovo	Laptop	T480	PF1P5K4F

External I/O Cable

Cable Description	Length (m)	From Port	To Port
Power Cable	0.5	Adapter	EUT

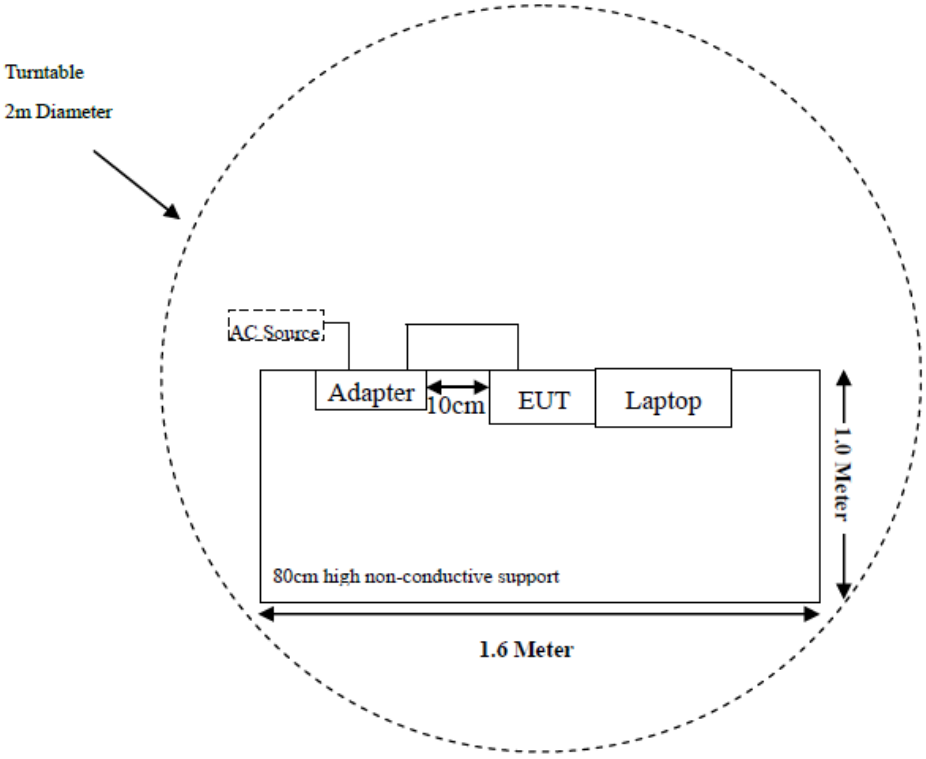
Block Diagram of Test Setup

For Conducted Emissions:

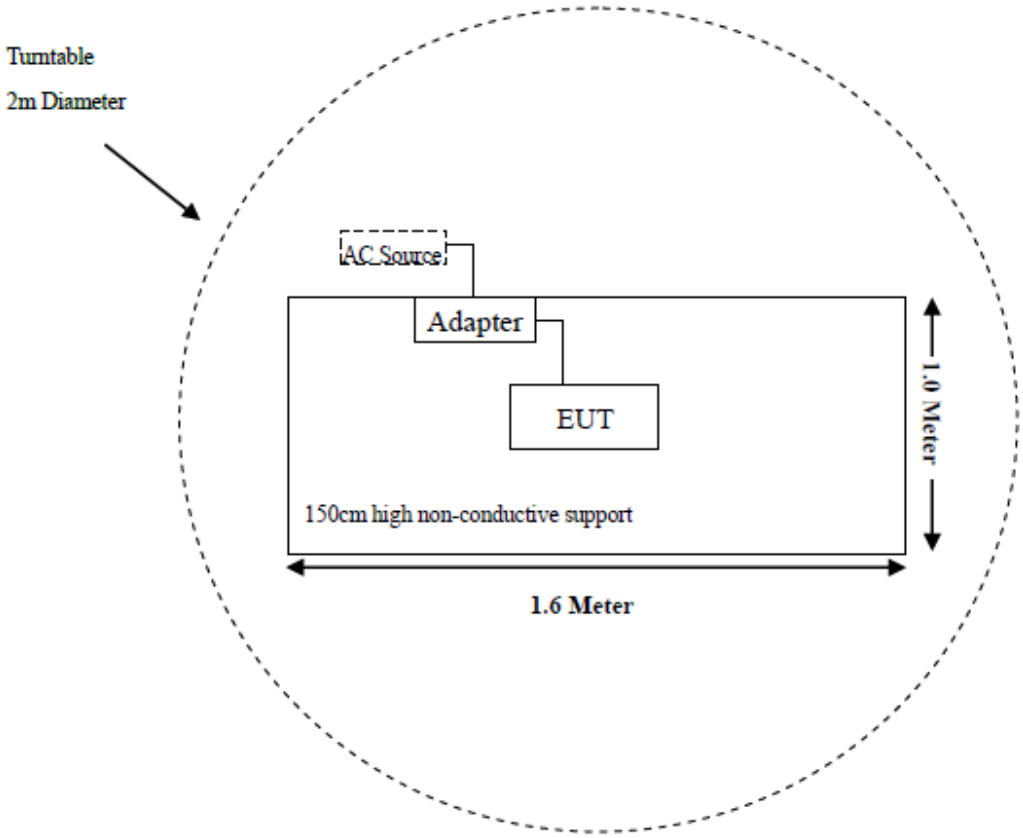


For Radiated Emissions:

Below 1GHz:



Above 1GHz


Turntable
2m Diameter
AC Source
Adapter
EUT
150cm high non-conductive support
1.0 Meter
1.6 Meter

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conducted Emissions	Compliant
§15.205, §15.209, §15.249	Radiated Emissions & Fundamental Test & Out-of-band Emissions Test	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant (See Note)

Note: During testing, connect 1kHz, 80dBμV FM modulated audio, and the system is in the maximum input level state (It was provided by the manufacturer)

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Below 1 GHz					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2024/03/29	2025/03/28
Loop Antenna	Rohde & Schwarz	HFH2-Z2	830749/001	2023/07/27	2026/07/26
Antenna	Sunol Sciences	JB6	A122022-5	2023/07/27	2026/07/26
Amplifier	Sonoma	310B	120903	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC002	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-2M	CC006	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH460B-N-12M	CC007	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	HFH2-CC	335.3609	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Radiated Emissions Above 1 GHz					
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102051	2024/03/29	2025/03/28
Filter Switch Unit	Decentest	DT7220FSU	DS79904	2024/02/23	2025/02/22
Multiplex Switch Test Control Set	Decentest	DT7220SCU	DS79901	2024/02/23	2025/02/22
Band-Reject Filter	HX Microwave	HXLBQ-DZA05	24091101-1	2024/10/12	2025/10/11
Horn Aantenna	EMCO	3115	9002-3355	2024/11/19	2027/11/18
Preamplifier	A.H.Systems	PAM-0118P	489	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-6M	CC003	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH800A-N-1M	CC005	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
Conducted Emissions					
EMI Test Receiver	Rohde & Schwarz	ESR	103105	2024/03/29	2025/03/28
LISN	Rohde & Schwarz	ENV216	100129	2024/03/29	2025/03/28
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2024/03/29	2025/03/28
Coaxial Cable	XINHANGWEIBO	XH400T-N-4M	CC001	2024/03/29	2025/03/28
Test Software	Audix	E3	18621a	N/A	N/A
RF Conducted Test (20 dB Bandwidth)					
EMI Test Receiver	Rohde & Schwarz	ESR	103103	2024/03/29	2025/03/28
Coaxial Cable	N/A	N/A	N/A	2024/03/29	2025/03/28
RF Communications test set	HP	8920A	3524A07202	2024/04/26	2025/04/25

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

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 a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Antenna Connected Construction

The EUT has a PCB antenna which was permanently attached and the antenna gain is 0dBi; fulfill the requirement of this section. Please refer to EUT photos.

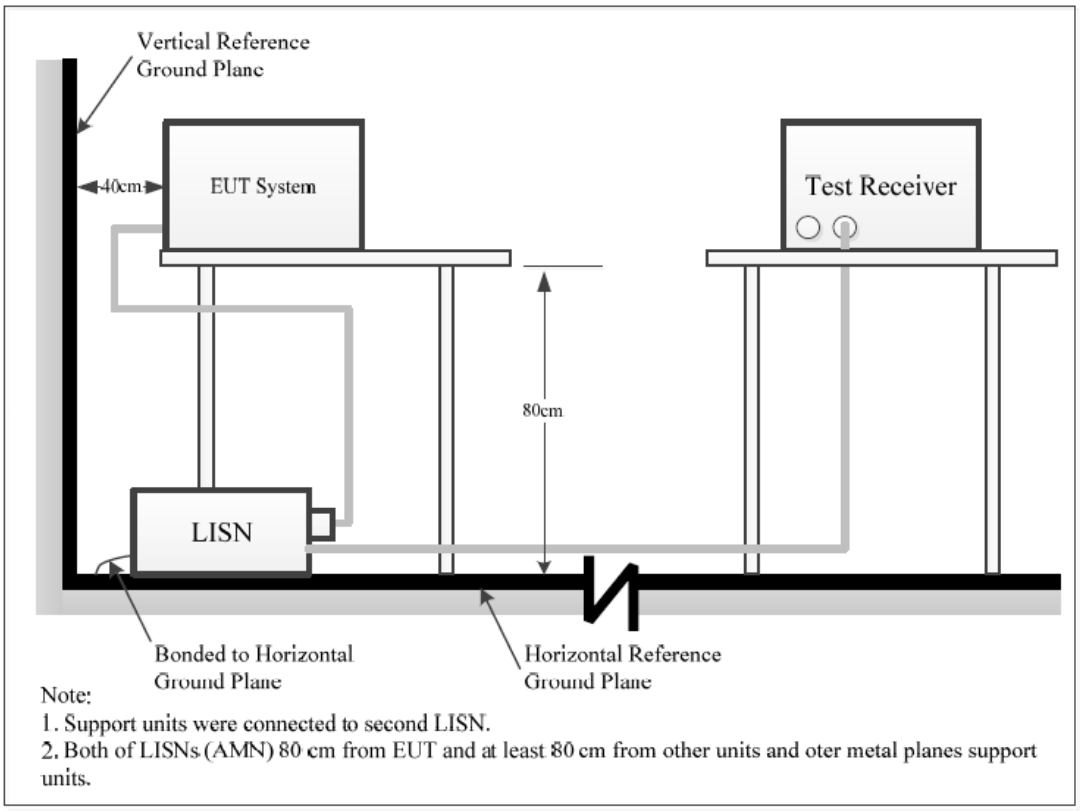
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Result & Margin Calculation

The Result is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
Result (dBµV) = Reading (dBµV) + Factor (dB)

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBµV) –Result (dBµV)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, FCC Part 15.207.

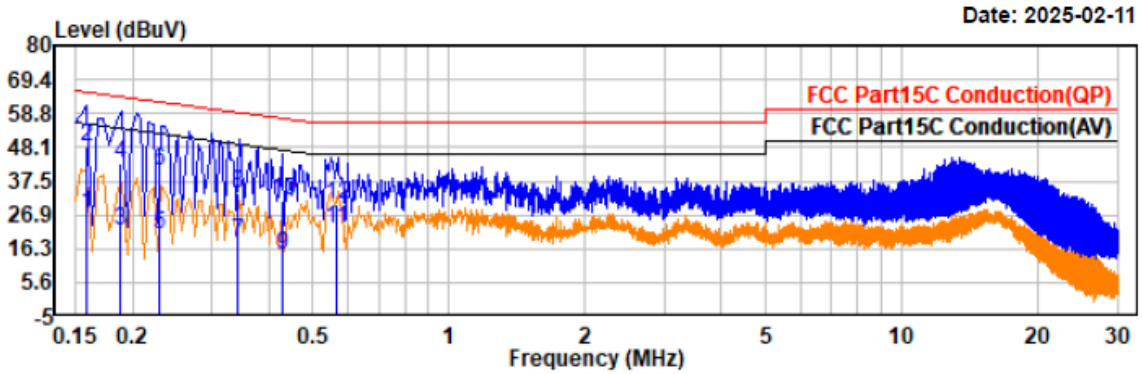
Test Data

Temperature:	21.5℃
Relative Humidity:	44 %
ATM Pressure:	100.1 kPa
Test Date:	2025-02-11
Test Engineer:	Spike Gao

EUT Operation mode: Transmitting in 905.2MHz (worst case)

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01

Temp/Humi/ATM: 21.5℃/44%/100.1kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz

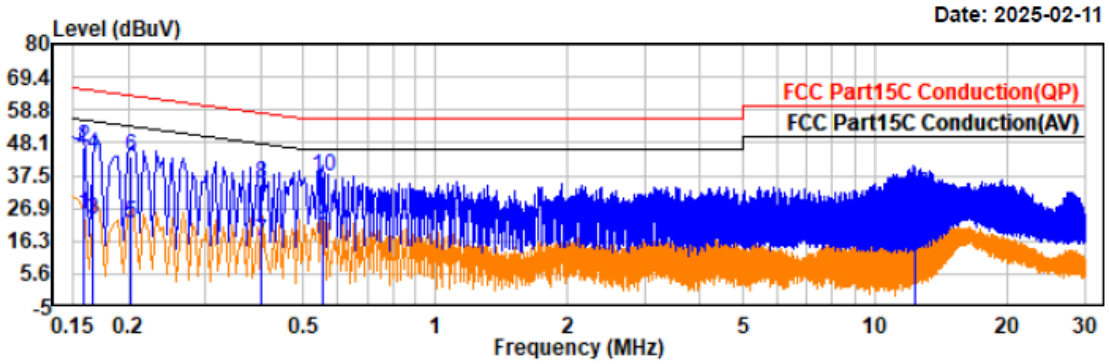


Trace: 1
Condition: QP RBW:9kHz
AV RBW:9kHz

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	6.19	20.87	27.06	55.56	28.50	Line	Average
0.16	27.55	20.87	48.42	65.56	17.14	Line	QP
0.19	1.15	20.64	21.79	54.09	32.30	Line	Average
0.19	22.36	20.64	43.00	64.09	21.09	Line	QP
0.23	0.39	20.53	20.92	52.49	31.57	Line	Average
0.23	20.25	20.53	40.78	62.49	21.71	Line	QP
0.34	-2.22	20.41	18.19	49.18	30.99	Line	Average
0.34	13.48	20.41	33.89	59.18	25.29	Line	QP
0.43	-6.29	20.34	14.05	47.27	33.22	Line	Average
0.43	10.79	20.34	31.13	57.27	26.14	Line	QP
0.56	1.99	20.36	22.35	46.00	23.65	Line	Average
0.56	9.64	20.36	30.00	56.00	26.00	Line	QP

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01

Temp/Humi/ATM: 21.5℃/44%/100.1kPa
Tested by: Spike Gao
Power Source: AC 120V/60Hz



Trace: 1
Condition: QP RBW:9kHz
AV RBW:9kHz

Freq MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Phase	Remark
0.16	4.13	20.72	24.85	55.57	30.72	Neutral	Average
0.16	26.00	20.72	46.72	65.57	18.85	Neutral	QP
0.17	2.32	20.70	23.02	55.13	32.11	Neutral	Average
0.17	23.75	20.70	44.45	65.13	20.68	Neutral	QP
0.20	1.31	20.67	21.98	53.49	31.51	Neutral	Average
0.20	22.98	20.67	43.65	63.49	19.84	Neutral	QP
0.40	-4.33	20.45	16.12	47.80	31.68	Neutral	Average
0.40	14.69	20.45	35.14	57.80	22.66	Neutral	QP
0.56	0.94	20.36	21.30	46.00	24.70	Neutral	Average
0.56	17.00	20.36	37.36	56.00	18.64	Neutral	QP
12.27	-6.59	20.90	14.31	50.00	35.69	Neutral	Average
12.27	10.59	20.90	31.49	60.00	28.51	Neutral	QP

FCC §15.205, §15.209, §15.249 - RADIATED EMISSIONS & OUT OF BAND EMISSION

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

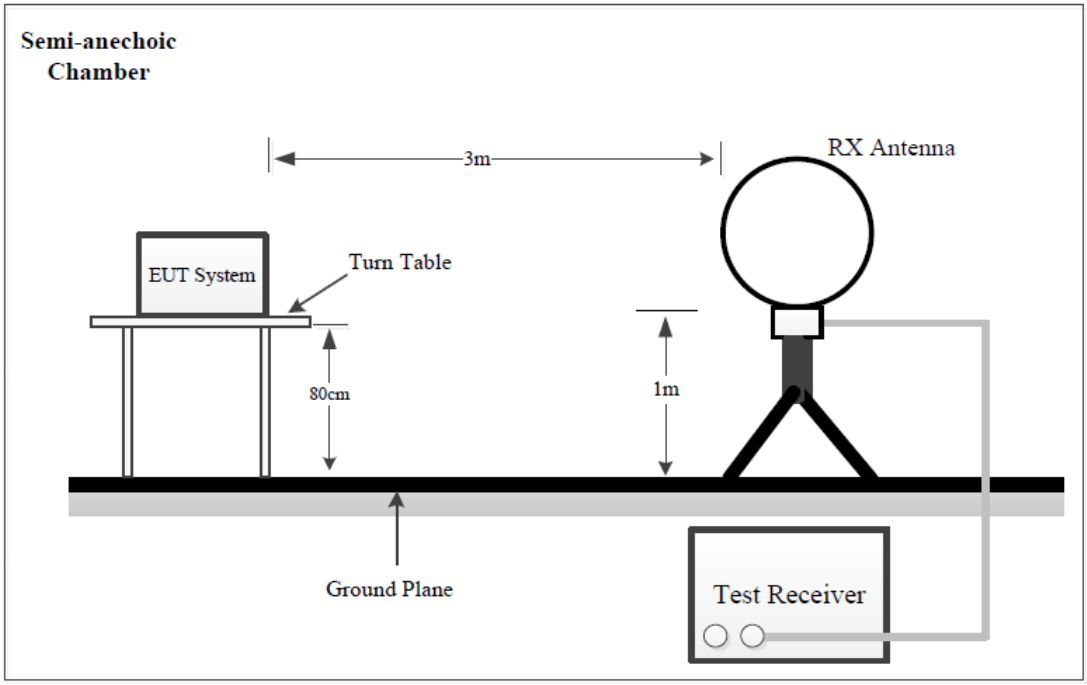
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

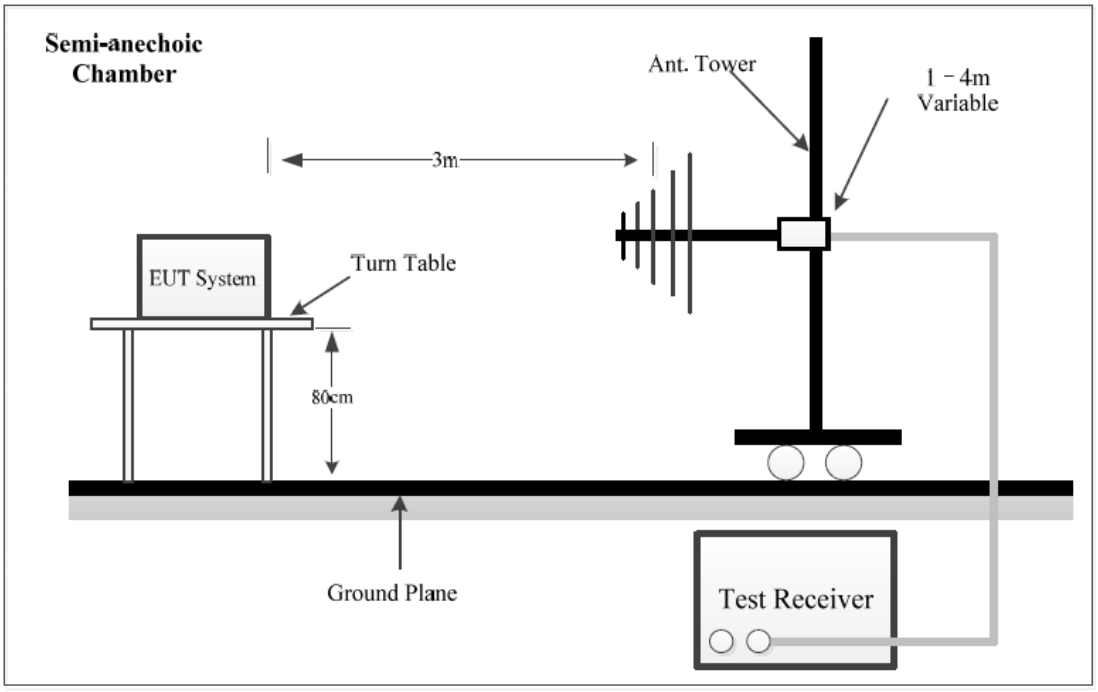
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test System Setup

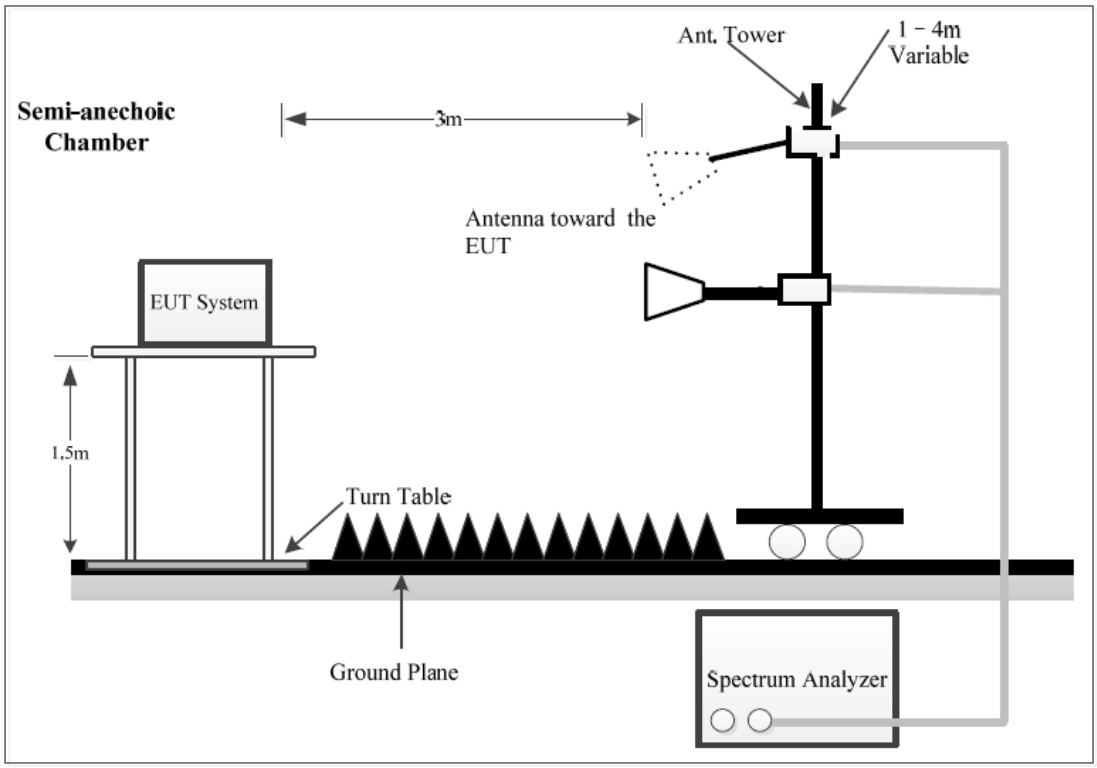
9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:



The radiated emission tests using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.249 limits.

NOTE: d is testing distance;
For Radiated Emission test (1GHz-10GHz) and Bandedge Emission test, which was performed at 3 m distance.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 10GHz.

During the radiated emission test, the EMI Test Receiver & Spectrum Analyzer Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	300Hz	1 kHz	200Hz	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	9 kHz	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	/	PK
	/	/	120kHz	QP

1GHz~10GHz:
Pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3MHz	PK
Ave.	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3MHz	PK
Ave.	1MHz	10Hz	PK

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

For each measurement antenna alignment, the EUT shall be rotated through 0°to 360°on a turntable. The report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground parallel) unless the margin is greater than 20 dB, then the following statement shall be made: “all emissions were greater than 20 dB below the limit.”

Below 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

Above 1GHz, if the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is below the AV emission limit, there's no need to record the measured AV level of the emissions in the report.

Result & Margin Calculation

The Result is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

For 9 kHz to 10GHz Radiated emission test
Factor (dB/m) =Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Result (dBμV/m) = Reading (dBμV) + Factor (dB/m)

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) –Result (dBμV/m)

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249.

Test Data

Frequency Range:	Below 1 GHz	Above 1 GHz	Fundamental Test & Out-of-band Emissions Test:
Temperature:	21.0℃	21.0℃	21.0℃
Relative Humidity:	48%	48%	48%
ATM Pressure:	100.1kPa	100.1kPa	100.1kPa
Test Date:	2025-02-07	2025-02-07	2025-02-07
Test Engineer:	Wlif Wu	Wlif Wu	Wlif Wu

Note: Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.

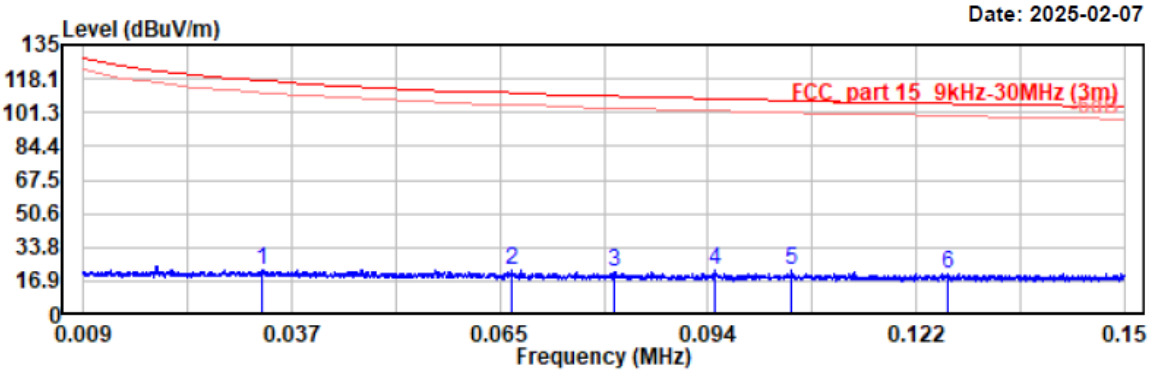
1) 9 kHz~30MHz

Pre-scan in parallel, ground-parallel and perpendicular of orientation of loop antenna, parallel is worst case

EUT Operation mode: Transmitting in 905.2MHz (worst case)

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

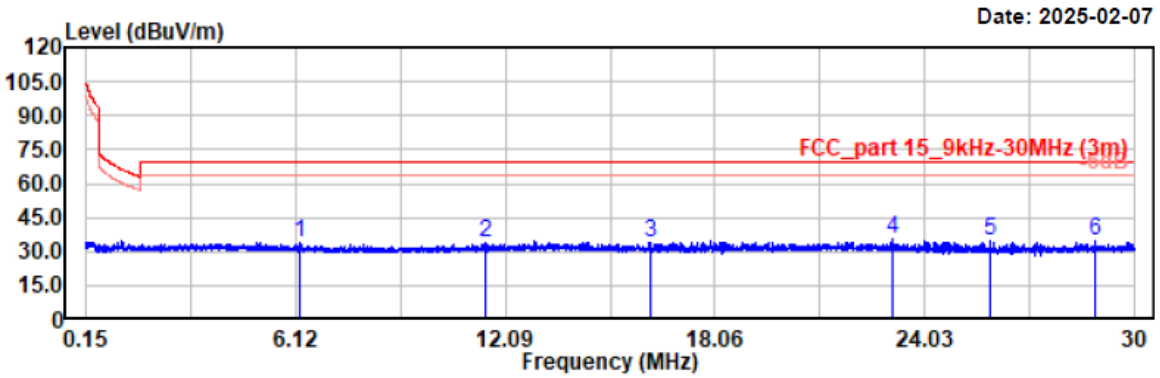


Condition: PK RBW:300Hz VBW:1kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
0.033	2.49	19.91	22.40	117.20	94.80	Peak
0.067	2.30	19.84	22.14	111.10	88.96	Peak
0.081	1.82	19.72	21.54	109.45	87.91	Peak
0.095	2.20	19.77	21.97	108.10	86.13	Peak
0.105	2.57	19.73	22.30	107.19	84.89	Peak
0.126	0.82	19.73	20.55	105.59	85.04	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:10kHz VBW:30kHz SWT:auto

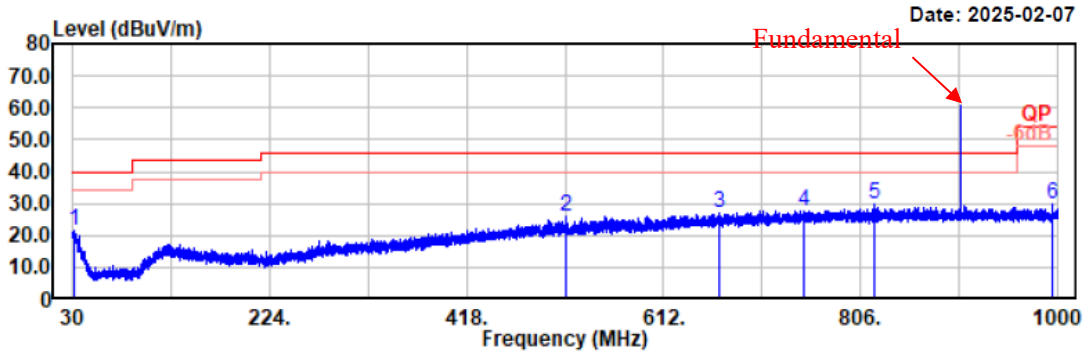
Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark
6.230	13.90	19.78	33.68	69.54	35.86	Peak
11.514	13.86	19.72	33.58	69.54	35.96	Peak
16.230	14.22	19.84	34.06	69.54	35.48	Peak
23.132	15.22	20.17	35.39	69.54	34.15	Peak
25.878	14.82	20.17	34.99	69.54	34.55	Peak
28.872	14.47	20.02	34.49	69.54	35.05	Peak

2） 30MHz~ 1GHz

EUT Operation mode: Transmitting in 905.2MHz (worst case)

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

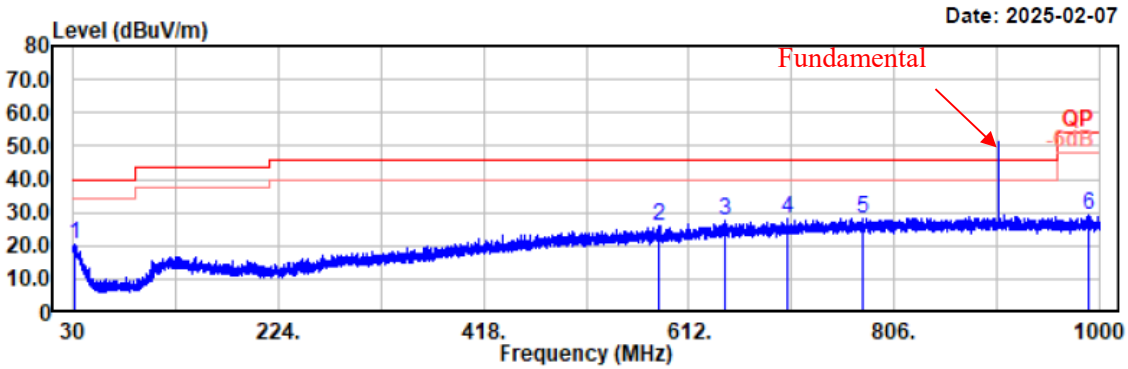


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
30.97	27.62	-5.84	21.78	40.00	18.22	Horizontal	Peak
516.16	29.61	-3.42	26.19	46.00	19.81	Horizontal	Peak
667.78	27.85	-0.67	27.18	46.00	18.82	Horizontal	Peak
750.71	27.19	0.55	27.74	46.00	18.26	Horizontal	Peak
819.97	28.03	1.62	29.65	46.00	16.35	Horizontal	Peak
995.15	25.77	4.01	29.78	54.00	24.22	Horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



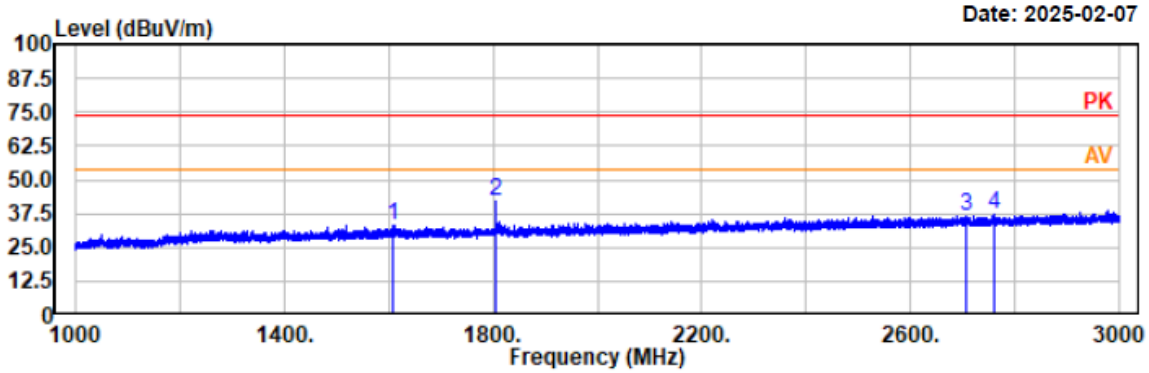
Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
31.84	26.49	-6.32	20.17	40.00	19.83	Vertical	Peak
584.45	28.63	-2.48	26.15	46.00	19.85	Vertical	Peak
646.53	28.78	-0.98	27.80	46.00	18.20	Vertical	Peak
704.83	28.27	-0.21	28.06	46.00	17.94	Vertical	Peak
776.12	27.43	0.98	28.41	46.00	17.59	Vertical	Peak
989.14	25.37	3.87	29.24	54.00	24.76	Vertical	Peak

3) 1GHz~10 GHz

Project No.: 2507P32040E-RF
Test Mode: 902.8MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

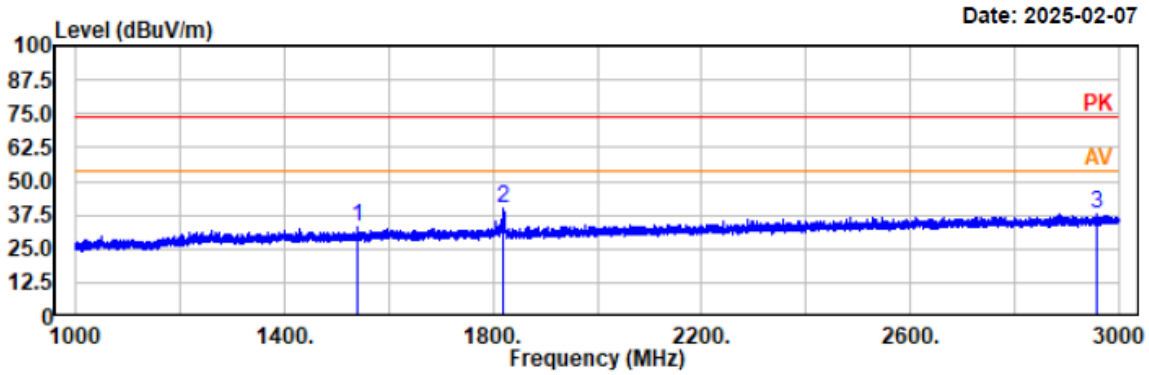


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1608.20	47.03	-13.91	33.12	74.00	40.88	horizontal	Peak
1805.60	55.62	-13.21	42.41	74.00	31.59	horizontal	Peak
2708.40	46.52	-9.99	36.53	74.00	37.47	horizontal	Peak
2760.40	47.03	-9.91	37.12	74.00	36.88	horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 902.8MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

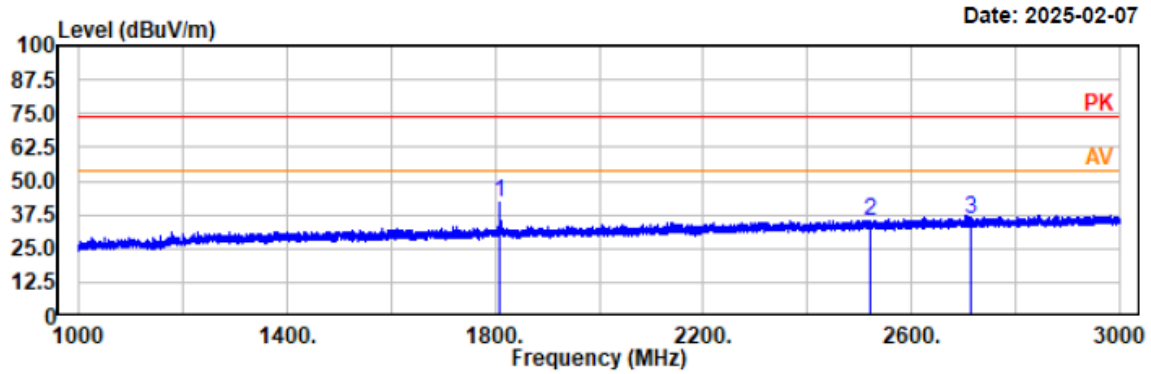


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1541.60	47.16	-14.28	32.88	74.00	41.12	vertical	Peak
1817.80	53.05	-13.17	39.88	74.00	34.12	vertical	Peak
2959.40	47.00	-9.16	37.84	74.00	36.16	vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 904.4MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

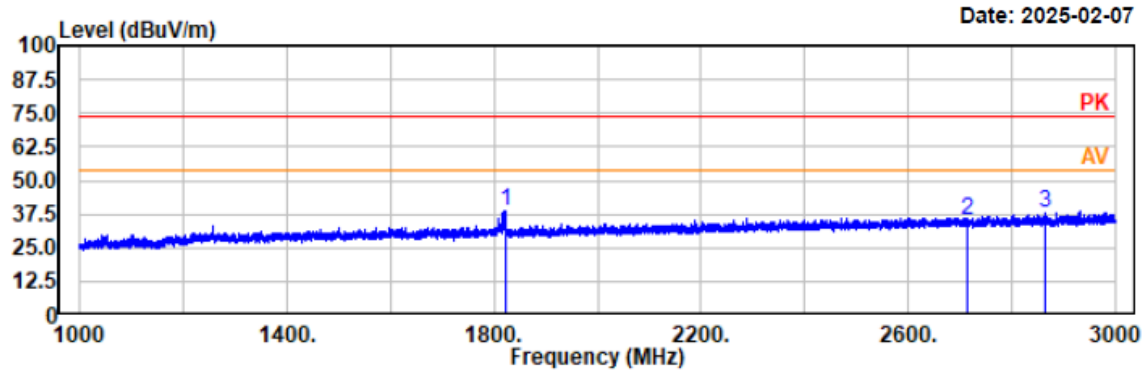


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1809.00	55.53	-13.19	42.34	74.00	31.66	horizontal	Peak
2521.60	46.11	-10.66	35.45	74.00	38.55	horizontal	Peak
2713.20	45.78	-9.98	35.80	74.00	38.20	horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 904.4MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

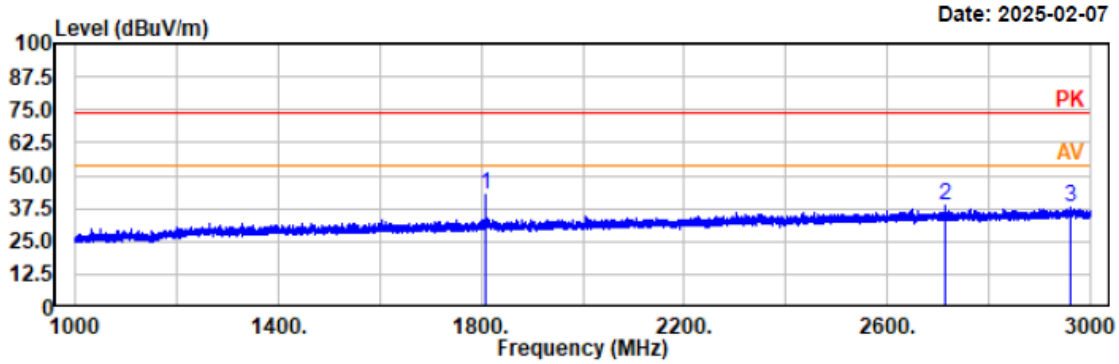


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
1823.00	51.73	-13.16	38.57	74.00	35.43	vertical	Peak
2713.20	45.02	-9.98	35.04	74.00	38.96	vertical	Peak
2866.20	47.45	-9.60	37.85	74.00	36.15	vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

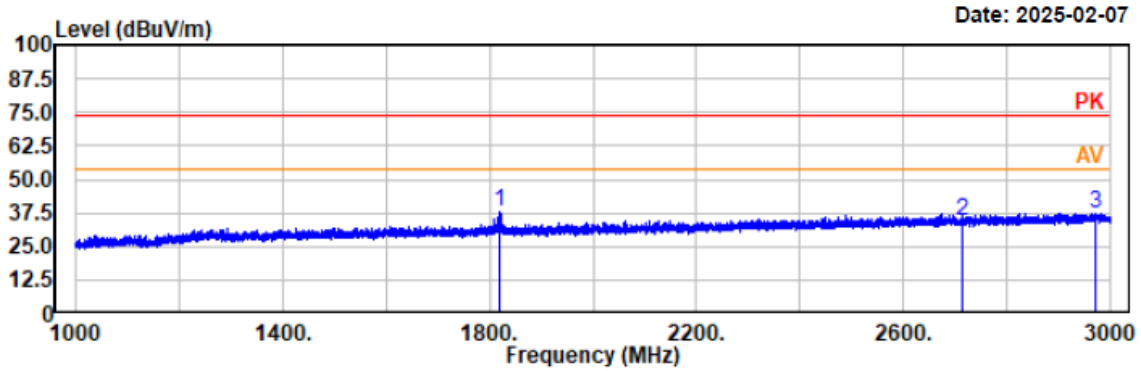


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1808.80	55.61	-13.19	42.42	74.00	31.58	horizontal	Peak
2713.40	48.89	-9.98	38.91	74.00	35.09	horizontal	Peak
2962.40	46.74	-9.14	37.60	74.00	36.40	horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

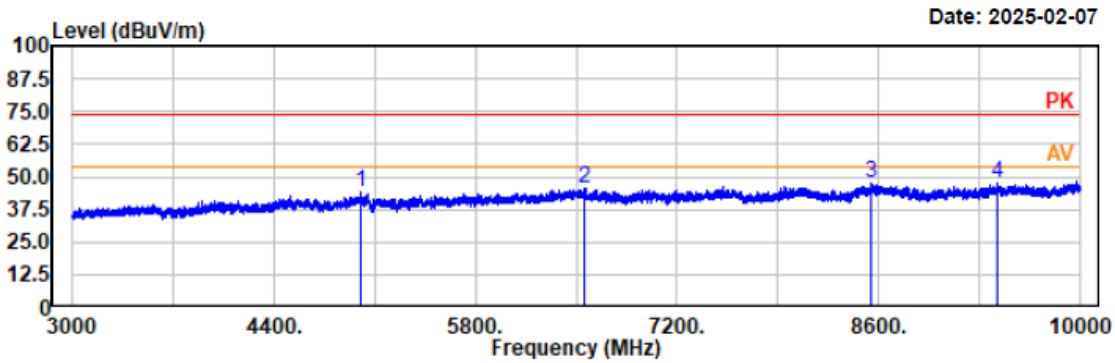


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1817.60	51.01	-13.17	37.84	74.00	36.16	vertical	Peak
2715.60	44.27	-9.99	34.28	74.00	39.72	vertical	Peak
2971.00	46.67	-9.10	37.57	74.00	36.43	vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 902.8MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

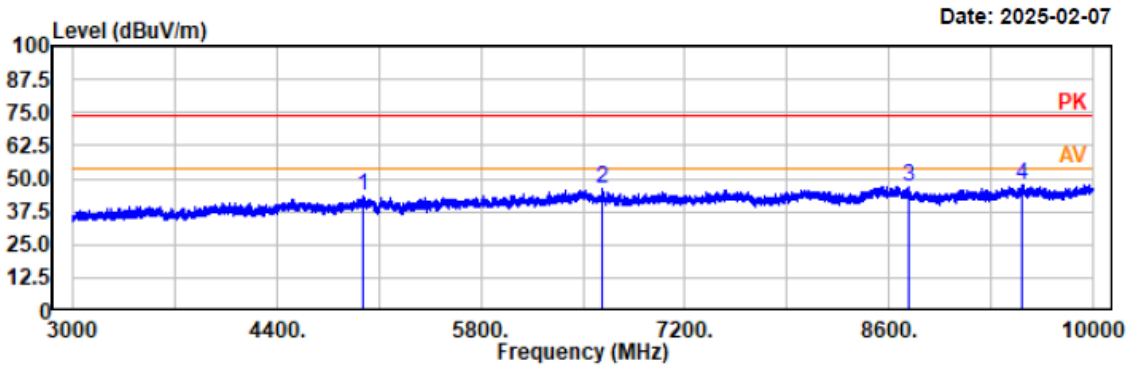


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
5006.90	48.89	-4.97	43.92	74.00	30.08	horizontal	Peak
6555.30	47.60	-1.99	45.61	74.00	28.39	horizontal	Peak
8552.40	47.53	-0.15	47.38	74.00	26.62	horizontal	Peak
9421.80	47.04	0.56	47.60	74.00	26.40	horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 902.8MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

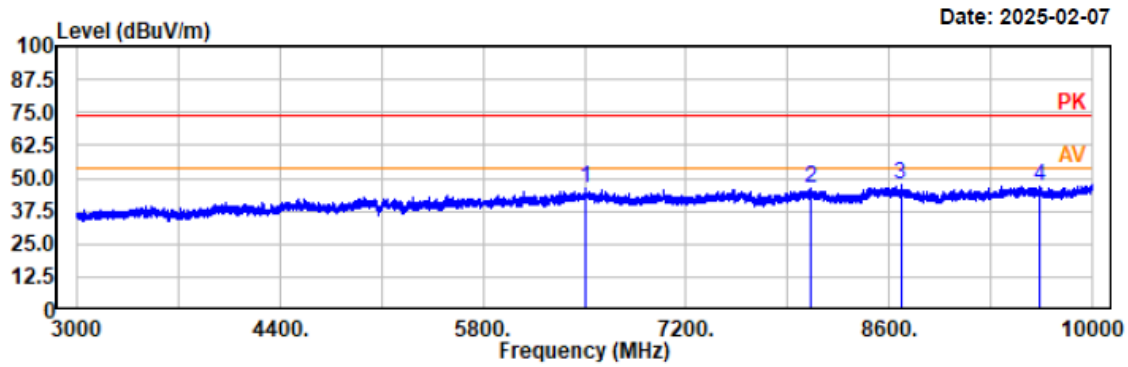


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
4994.30	48.69	-5.00	43.69	74.00	30.31	vertical	Peak
6629.50	48.48	-2.19	46.29	74.00	27.71	vertical	Peak
8737.20	47.56	-0.51	47.05	74.00	26.95	vertical	Peak
9514.20	46.77	0.89	47.66	74.00	26.34	vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 904.4MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

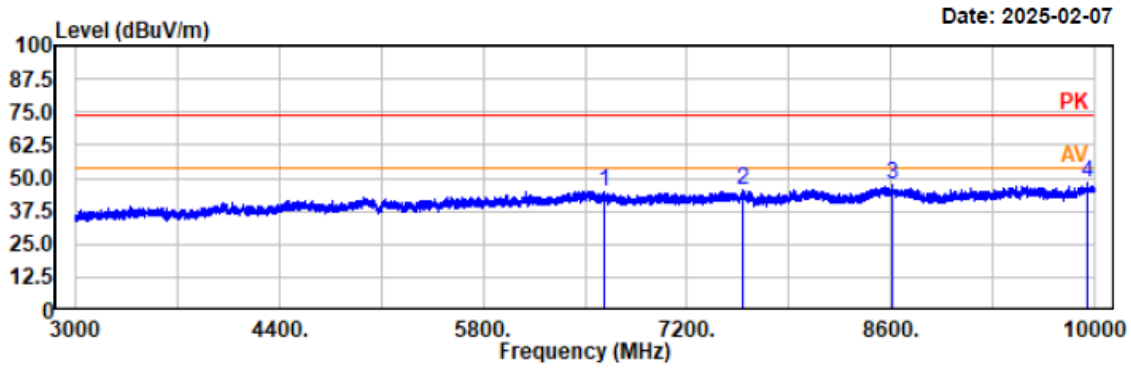


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
6501.40	48.03	-1.86	46.17	74.00	27.83	horizontal	Peak
8058.20	48.03	-1.76	46.27	74.00	27.73	horizontal	Peak
8680.50	47.73	-0.42	47.31	74.00	26.69	horizontal	Peak
9633.90	45.83	1.04	46.87	74.00	27.13	horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 904.4MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

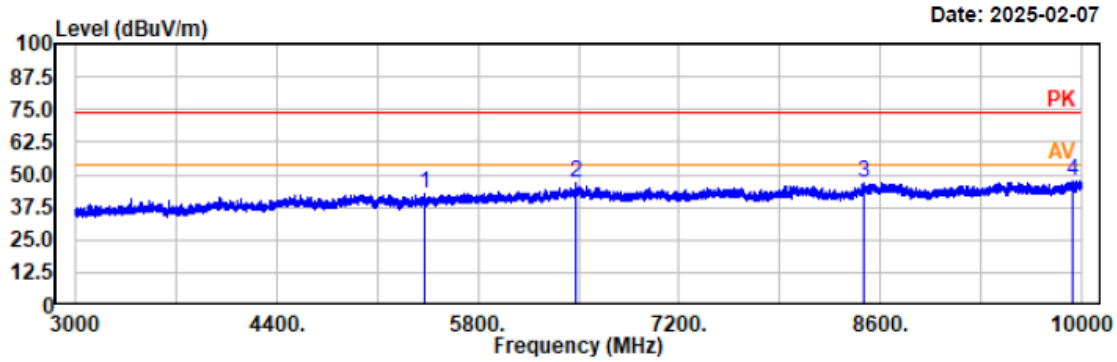


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
6637.20	47.36	-2.19	45.17	74.00	28.83	vertical	Peak
7580.80	47.09	-1.84	45.25	74.00	28.75	vertical	Peak
8616.80	47.79	-0.30	47.49	74.00	26.51	vertical	Peak
9946.80	46.78	1.38	48.16	74.00	25.84	vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

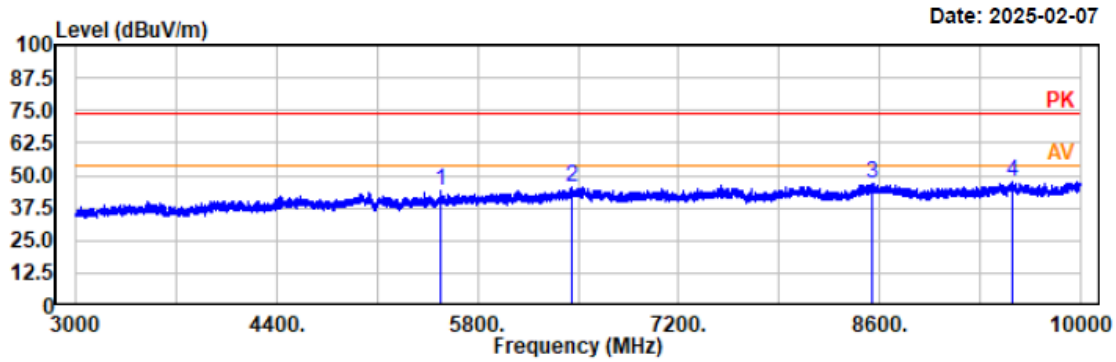


Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
5426.90	47.01	-4.36	42.65	74.00	31.35	horizontal	Peak
6485.30	48.75	-1.88	46.87	74.00	27.13	horizontal	Peak
8484.50	47.17	-0.08	47.09	74.00	26.91	horizontal	Peak
9942.60	46.32	1.38	47.70	74.00	26.30	horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



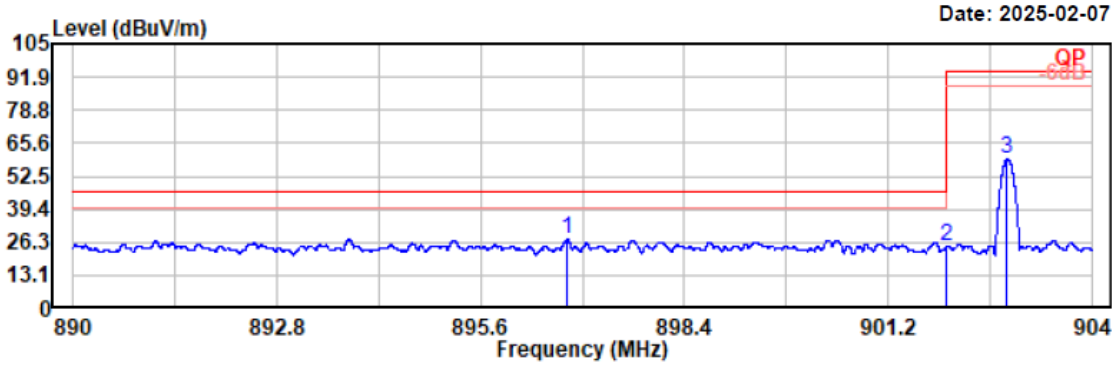
Condition: PK RBW:1MHz VBW:3MHz SWT:auto

Freq	Reading	Factor	Result	Limit	Margin	Polarity	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
5541.70	48.28	-4.23	44.05	74.00	29.95	vertical	Peak
6455.20	47.26	-1.96	45.30	74.00	28.70	vertical	Peak
8548.20	47.25	-0.14	47.11	74.00	26.89	vertical	Peak
9520.50	46.87	0.88	47.75	74.00	26.25	vertical	Peak

Fundamental Test & Out-of-band Emissions Test:

Project No.: 2507P32040E-RF
Test Mode: 902.8MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

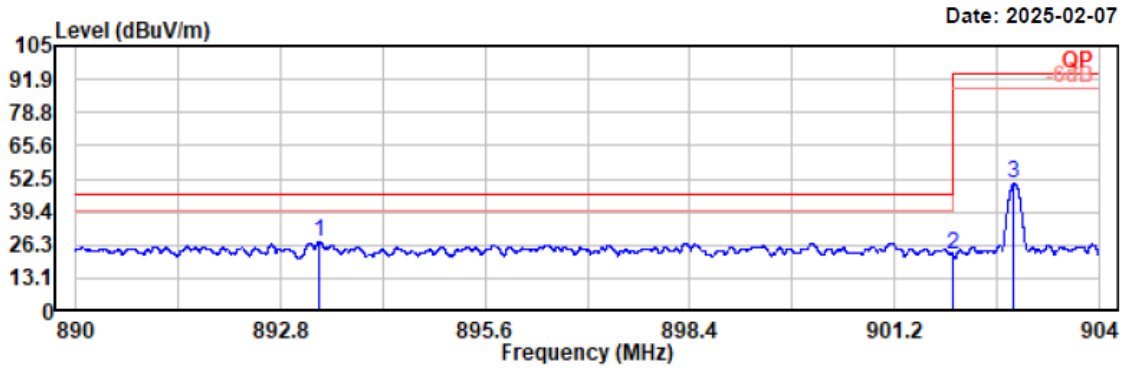


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
896.79	24.83	2.47	27.30	46.00	18.70	Horizontal	Peak
902.00	21.90	2.55	24.45	46.00	21.55	Horizontal	Peak
902.84	56.77	2.55	59.32	94.00	34.68	Horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 902.8MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

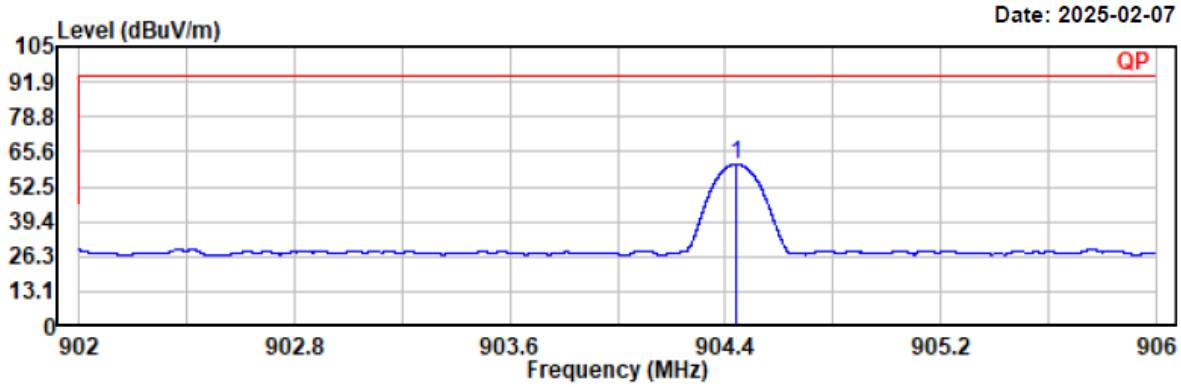


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
893.33	25.22	2.45	27.67	46.00	18.33	Vertical	Peak
902.00	20.17	2.55	22.72	46.00	23.28	Vertical	Peak
902.84	48.15	2.55	50.70	94.00	43.30	Vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 904.4MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

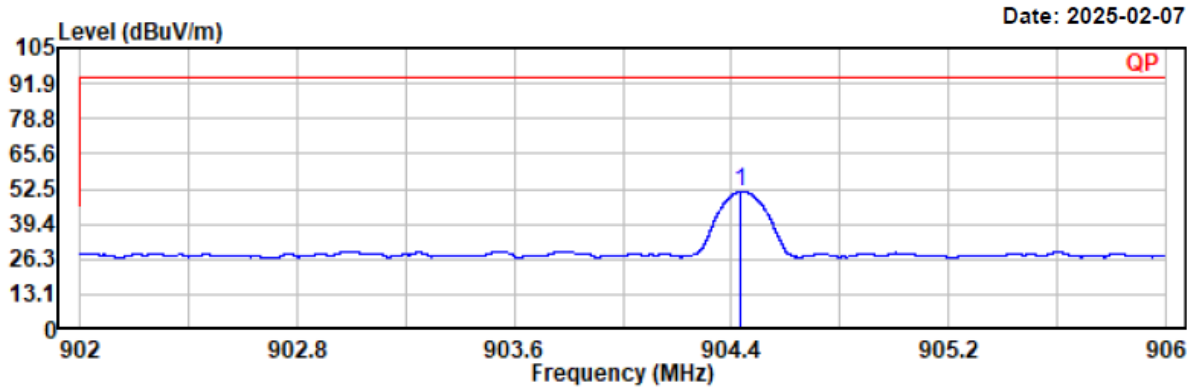


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
904.44	58.20	2.56	60.76	94.00	33.24	Horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 904.4MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

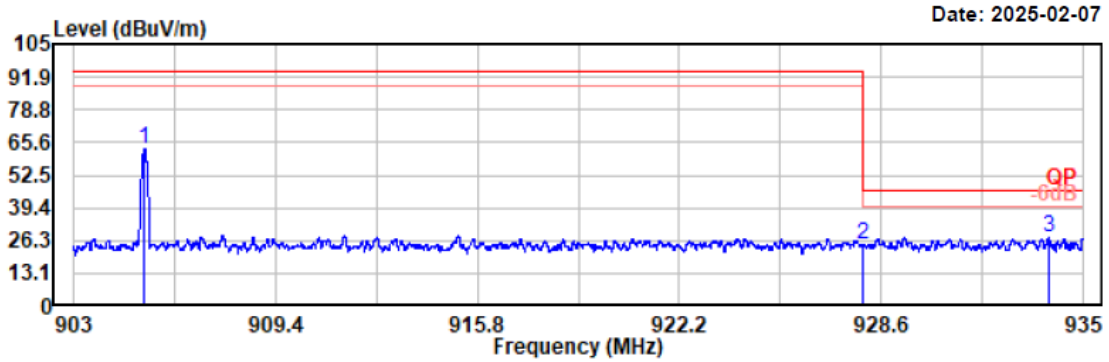


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
904.44	48.87	2.56	51.43	94.00	42.57	Vertical	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz

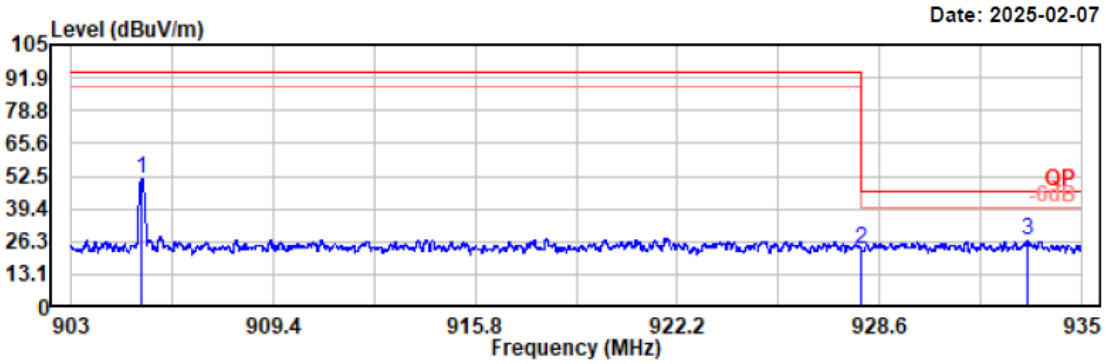


Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
905.24	60.36	2.56	62.92	94.00	31.08	Horizontal	Peak
928.00	21.80	2.85	24.65	46.00	21.35	Horizontal	Peak
933.92	24.43	3.03	27.46	46.00	18.54	Horizontal	Peak

Project No.: 2507P32040E-RF
Test Mode: 905.2MHz Transmitting
EUT Model: LG-01
Test distance: 3m

Temp/Humi/ATM: 21.0℃/48%/100.1kPa
Tested by: Wlif Wu
Power Source: AC 120V/60Hz



Condition: PK RBW:100kHz VBW:300kHz SWT:auto

Freq MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Polarity	Remark
905.24	48.91	2.56	51.47	94.00	42.53	Vertical	Peak
928.00	20.48	2.85	23.33	46.00	22.67	Vertical	Peak
933.29	23.88	3.00	26.88	46.00	19.12	Vertical	Peak

FCC §15.215(c) - 20dB EMISSION BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

According to section 6.9 of standard ANSI C63.10-2013.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
3. Repeat above procedures until all frequencies measured were complete.

Test Setup

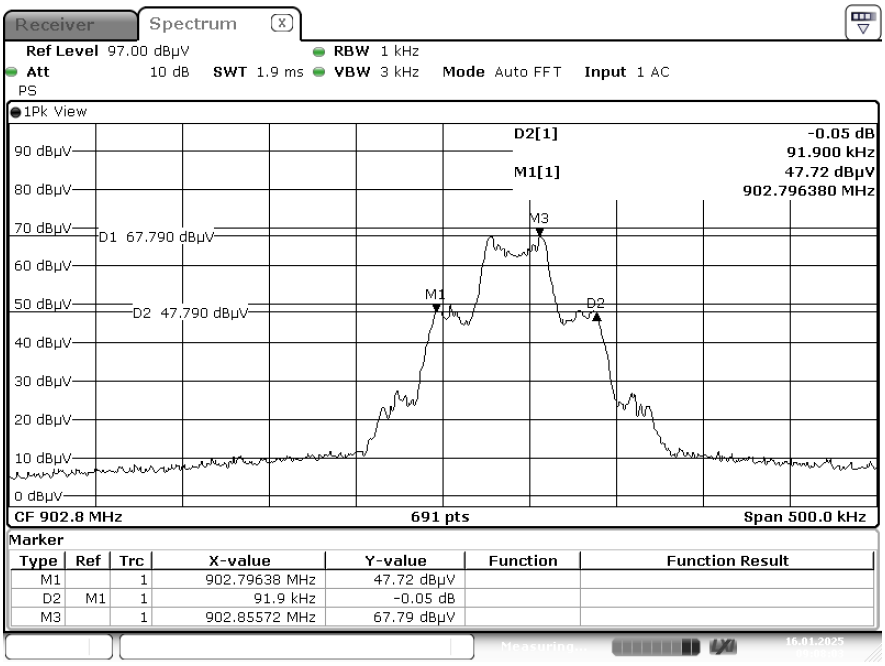
Test Data

Test Mode:	Transmitting	**Test Engineer:**	Wlif Wu
Test Date:	2025-01-16	**Test Voltage:**	DC 3.7V from battery
Test Frequency:	902.8MHz, 904.4MHz, 905.2MHz	**Environment:**	Temp.: 21.5℃ Humi.: 56% Atm:100.2kPa

Test Result: Compliant.

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
1	902.8	0.092
3	904.4	0.093
4	905.2	0.092

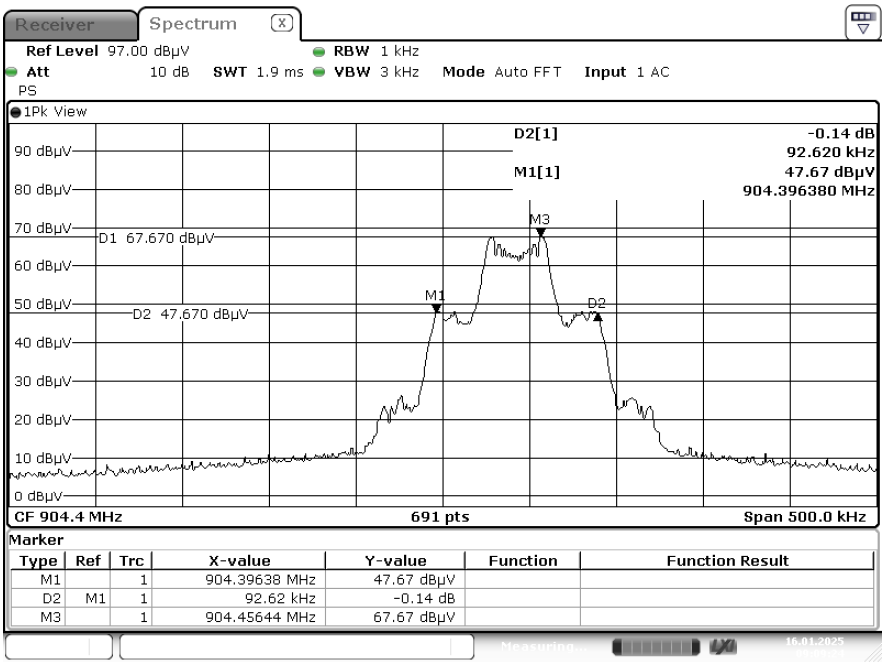
902.8 MHz



ProjectNo.:2507P32040E-RF Tester:Wlif Wu

Date: 16.JAN.2025 09:08:04

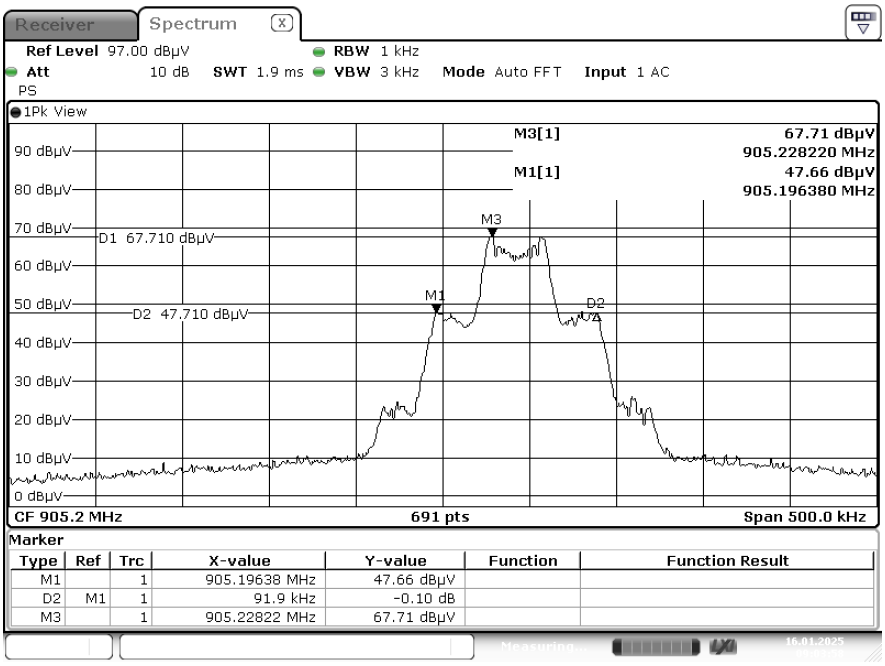
904.4 MHz



ProjectNo.:2507P32040E-RF Tester:Wlif Wu

Date: 16.JAN.2025 09:09:24

905.2 MHz



ProjectNo.:2507P32040E-RF Tester:Wlif Wu

Date: 16.JAN.2025 09:03:59

EUT PHOTOGRAPHS

Please refer to the attachment 2507P32040E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507P32040E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507P32040E-RF-TSP TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk "★".

2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.

4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95% confidence interval.

5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).

6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

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