



A2LA Cert. No. 5463.01

Report No.: TZ0035250918FEM02

Page 1 of 16

TEST REPORT

Report Reference No......: **TZ0035250918FEM02**Prepared by
(+signature): Nancy LiReviewed by
(+signature): Allen LaiApproved by
(+signature): Max Zhang
(Authorized Officer)

Date of issue.....: 2025-09-26

**Testing Laboratory Name**.....: Shenzhen Tongzhou Testing Co.,Ltd.Address.....: 1st Floor, Building 1, Haomai High-tech Park, Huating Road 387,
Dalang Street, Longhua, Shenzhen, China**Applicant's name**.....: **DGL Group LTD.**Address.....: 2045 Lincoln Highway, 3rd Floor, Edison, New Jersey 08817, United
States**Manufacturer's name**.....: **DGL Group LTD.**Address.....: 2045 Lincoln Highway, 3rd Floor, Edison, New Jersey 08817, United
States**Test specification**.....:Standard.....: **CFR Title 47 FCC Part 15 Subpart B**

TRF Originator.....: SZTZ

Master TRF.....: Dated 2024-09

Shenzhen Tongzhou Testing Co.,Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Tongzhou Testing Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Tongzhou Testing Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Test item description.....: **Radio**

FCC ID.....: 2AANZCFLR

Trade Mark.....: EDGEWOOD

Model/Type reference.....: SR-EW-CFLR-ORG, EW-CFLR-ORG-FR

Ratings.....: DC 3.7V by battery or DC 5V by adapter

Result.....: **PASS**



**** Report Revise Record ****

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2025-09-26	Valid	Initial release





Contents

1.	TEST STANDARDS	4
2.	SUMMARY	5
2.1.	General Remarks.....	5
2.2.	Product Description.....	5
2.3.	EUT operation mode.....	5
2.4.	EUT configuration.....	5
2.5.	Related Submittal(s) / Grant (s)	6
2.6.	Internal Identification of EUT used during the test	6
2.7.	Modifications	6
2.8.	Test Result Summary	6
3.	TEST ENVIRONMENT	7
3.1.	Address of the test laboratory.....	7
3.2.	Environmental conditions.....	7
3.3.	Statement of the measurement uncertainty	7
3.4.	Equipments Used during the Test.....	8
4.	TEST CONDITIONS AND RESULTS	9
4.1.	Radiated Emission Test	9
4.2.	Conducted Emissions Test.....	13
5.	TEST SETUP PHOTOGRAPHS	16
6.	EXTERNAL PHOTOS OF THE EUT.....	16
7.	INTERIOR PHOTOS OF THE EUT	16





1. TEST STANDARDS

The tests were performed according to following standards:

[CFR Title 47 FCC Part 15 Subpart B](#)

Unintentional Radiators

[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





2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : 2025-09-12
Testing commenced on : 2025-09-12
Testing concluded on : 2025-09-25

2.2. Product Description

The Model: SR-EW-CFLR-ORG or the “EUT” as referred to in this report; more general information as follows, for more details, refer to the user’s manual of the EUT.

Name of EUT	: Radio
Model/Type reference	: SR-EW-CFLR-ORG, EW-CFLR-ORG-FR
Test Model	: SR-EW-CFLR-ORG
Difference description	: All the same except for the model name and appearance color
Receiver frequency	: FM: 88MHz to 108MHz AM: 530kHz to 1620kHz
Classification	: ☐ Class A ☒ Class B

2.3. EUT operation mode

The EUT has been tested under typical operating condition.

Test Item	
EMI	
Mode 1	FM receiving mode at 98MHz
Mode 2	AM receiving mode at 1070kHz

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - Supplied by the lab

○	Adapter	Model :	MDY-10-EH
		Input :	100-240V~ 50/60Hz 0.7A
		Output :	DC 5V, 3A





2.5. Related Submittal(s) / Grant (s)

This test report is intended for Radio filing to comply with the FCC Part 15, Subpart B Rules.

2.6. Internal Identification of EUT used during the test

EUT ID : TZ0035250918-1#

2.7. Modifications

No modifications were implemented to meet testing criteria.

2.8. Test Result Summary

Test Item	Test Requirement	Standard Paragraph	Result
Radiated Emission	FCC PART 15	Section 15.109	PASS
Conducted Emission	FCC PART 15	Section 15.107	PASS

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





3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Tongzhou Testing Co.,Ltd.

1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2014) and CISPR Publication 22.

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Tongzhou Testing Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Tongzhou Testing Co.,Ltd. is reported:

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	30MHz~1000MHz	±3.92dB	(1)
	1GHz~40GHz	±4.28dB	(1)
Conduction Uncertainty	150kHz~30MHz	±2.71dB	(1)

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





3.4. Equipments Used during the Test

Conducted emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI-7	100849/003	2024-12-31	2025-12-30
2	Artificial Mains	ROHDE & SCHWARZ	ENV 216	101333-IP	2024-12-31	2025-12-30
3	EMI Test Software	ROHDE & SCHWARZ	ESK1	V1.71	N/A	N/A
4	ISN T8	TESEQ	ISN T800	42789	2024-12-31	2025-12-30
5	ISN T8-CAT6	TESEQ	ISN T8-CAT6	39898	2024-12-31	2025-12-30

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due
1	Test Receiver	R&S	ESCI-7	100849/003	2024-12-31	2025-12-30
2	wideband Antenna	Schwarzbeck	VULB 9163	958	2022-11-13	2025-11-12
3	Horn Antenna	Schwarzbeck	BBHA 9120D	01989	2022-11-13	2025-11-12
4	Amplifier	Schwarzbeck	BBV 9743	209	2024-12-31	2025-12-30
5	Amplifier	Tonscend	TSAMP-0518SE	--	2024-12-31	2025-12-30
6	Postional Controller	MF	MF7802	--	--	--
7	RE test software	Tonscend	JS32-RE	V5.0.0.0	--	--



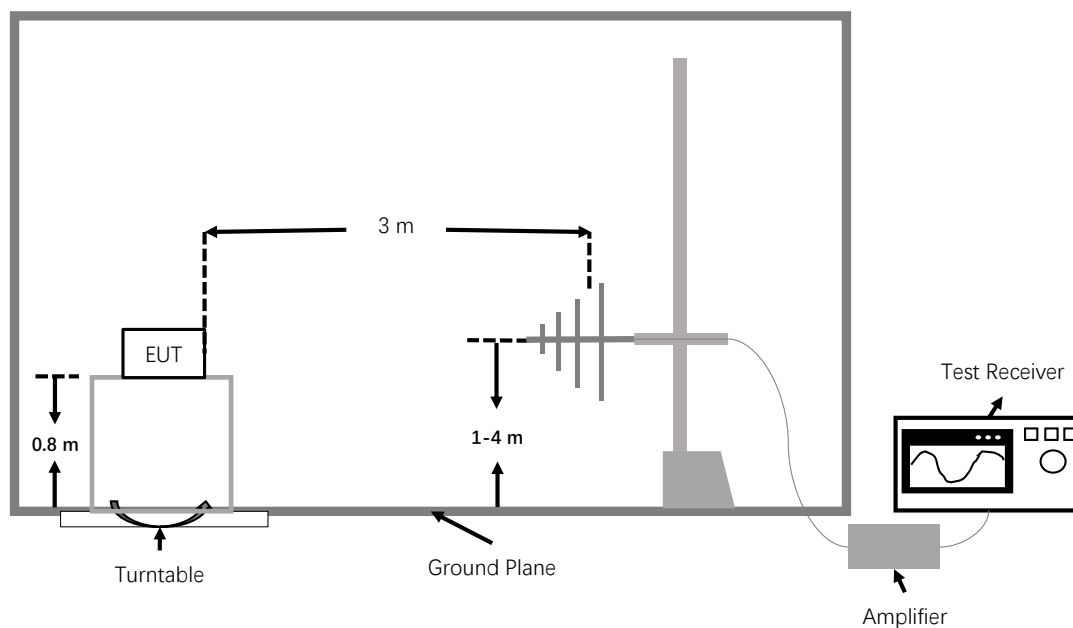


4. TEST CONDITIONS AND RESULTS

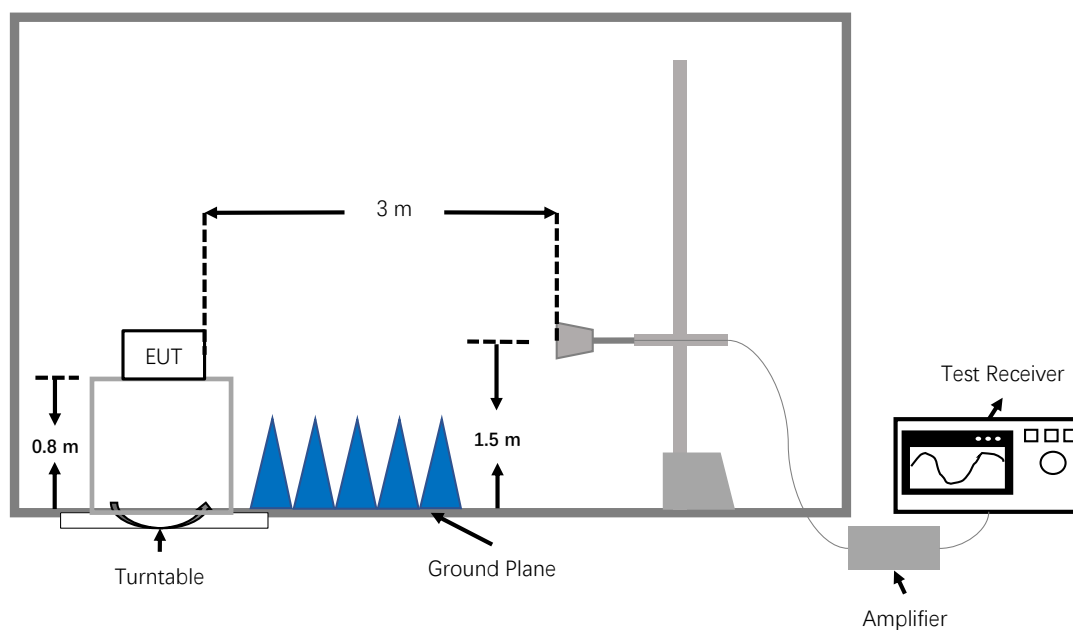
4.1. Radiated Emission Test

TEST CONFIGURATION

(a) Radiated Emission Test Set-Up, Frequency below 1000MHz



(b) Radiated Emission Test Set-Up, Frequency above 1000MHz





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	

RADIATION LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

Test Results

Pass

Pre-scan all modes and recorded the worst case results in this report.



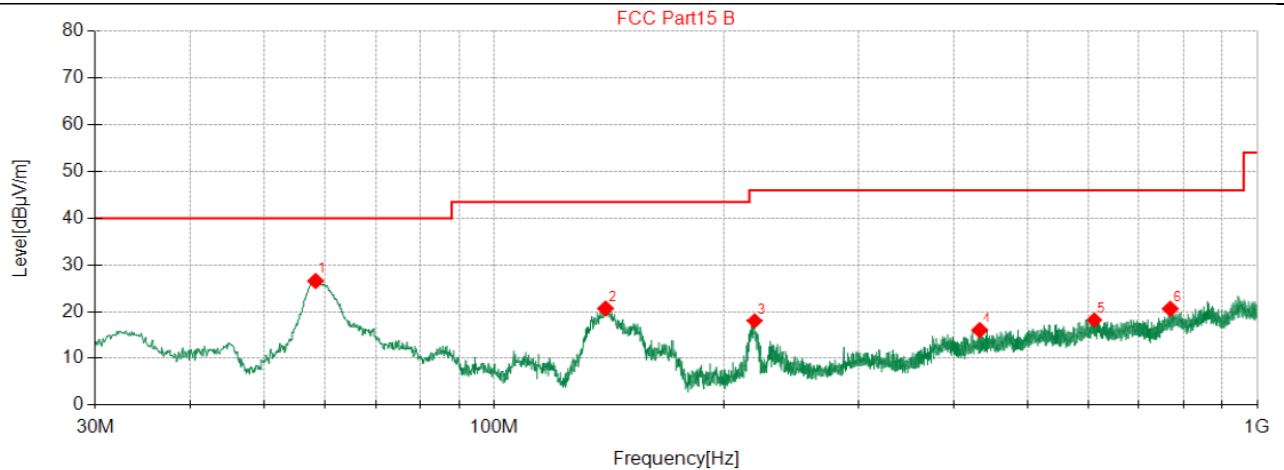


Below 1000MHz

Results of Radiated Emissions (30MHz ~1GHz)

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	Mode 1
Test Voltage	AC 120V/60Hz	/	/

Vertical



◆ QP Detector

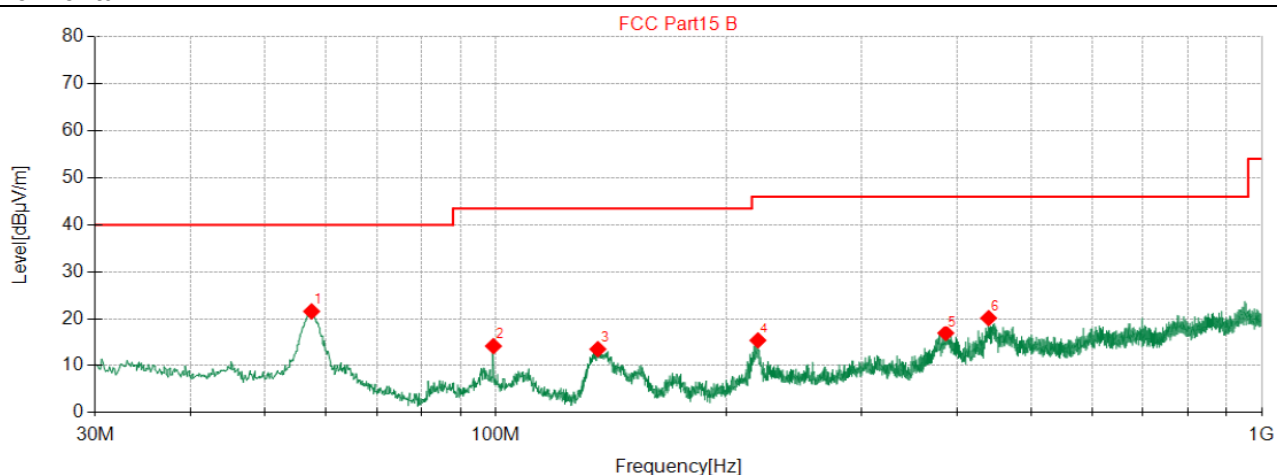
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/ m]	Limit [dBμV/ m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.37	42.09	-15.41	26.68	40.00	13.32	100	175	Vertical
2	139.9	40.32	-19.50	20.82	43.50	22.68	100	353	Vertical
3	219.5	32.89	-14.82	18.07	46.00	27.93	100	76	Vertical
4	432.9	25.36	-9.38	15.98	46.00	30.02	100	210	Vertical
5	611.6	23.71	-5.45	18.26	46.00	27.74	100	257	Vertical
6	769.3	24.10	-3.34	20.76	46.00	25.24	100	9	Vertical

***Note:

1. Level [dBμV/m] = Reading [dBμV] + Factor [dB/m]
2. Margin [dB] = Limit [dBμV/m] - Level [dBμV/m]



**Horizontal**

◆ QP Detector

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.52	37.00	-15.29	21.71	40.00	18.29	100	207	Horizontal
2	99.35	30.19	-16.09	14.10	43.50	29.40	100	242	Horizontal
3	135.9	32.79	-19.33	13.46	43.50	30.04	100	207	Horizontal
4	219.9	30.13	-14.81	15.32	46.00	30.68	100	280	Horizontal
5	386.9	27.25	-10.39	16.86	46.00	29.14	100	290	Horizontal
6	440.0	29.53	-9.25	20.28	46.00	25.72	100	274	Horizontal

***Note:

1. Level [dBμV/m] = Reading [dBμV] + Factor [dB/m]

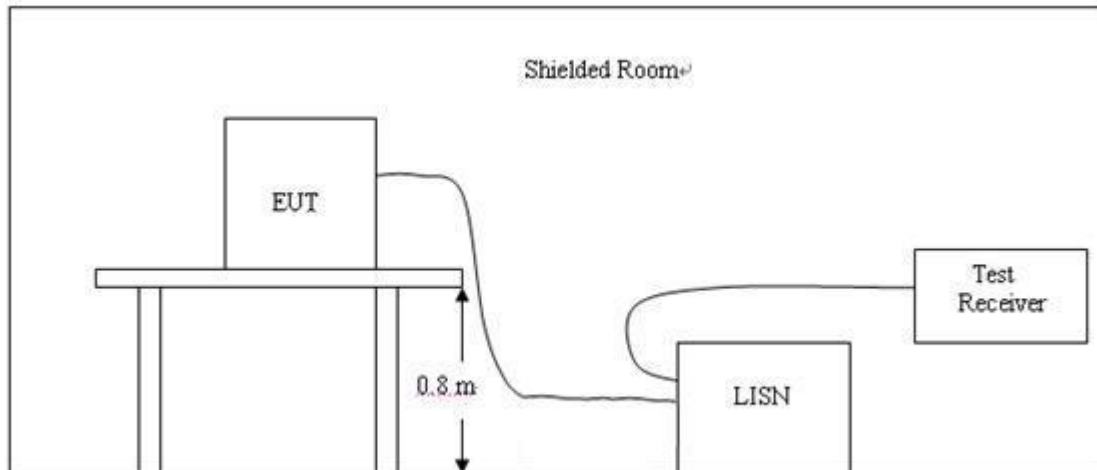
2. Margin [dB] = Limit [dBμV/m] - Level [dBμV/m]

Note: the Max working frequency is no more than 108MHz, no need for radiated Emission above 1GHz.



4.2. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

Frequency (MHz)	Maximum RF Line Voltage (dBµV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

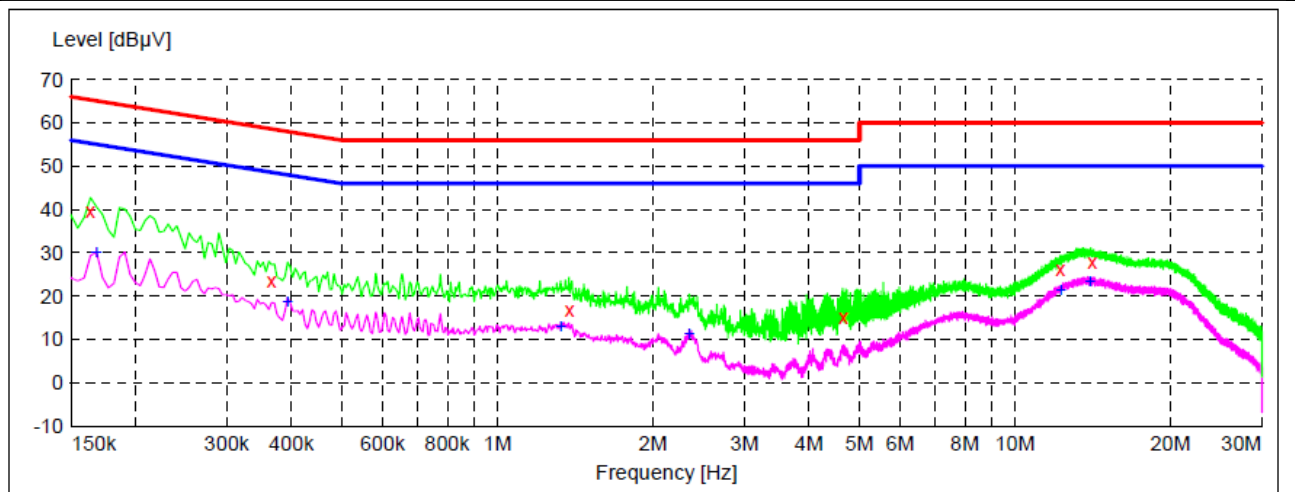
* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.



**TEST RESULTS**

Temperature	22.5℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	Mode 1
Test Voltage	AC 120V/60Hz	/	/

Neutral Line

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.163500	39.70	10.0	65	25.6	QP	N	GND
0.366000	23.60	10.1	59	35.0	QP	N	GND
1.378500	17.00	9.7	56	39.0	QP	N	GND
4.663500	15.30	9.7	56	40.7	QP	N	GND
12.223500	26.10	9.9	60	33.9	QP	N	GND
14.091000	27.90	9.9	60	32.1	QP	N	GND

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.168000	30.30	10.1	55	24.8	AV	N	GND
0.393000	18.90	10.0	48	29.1	AV	N	GND
1.324500	13.10	9.7	46	32.9	AV	N	GND
2.346000	11.40	9.7	46	34.6	AV	N	GND
12.250500	21.70	9.9	50	28.3	AV	N	GND
13.947000	23.60	9.9	50	26.4	AV	N	GND

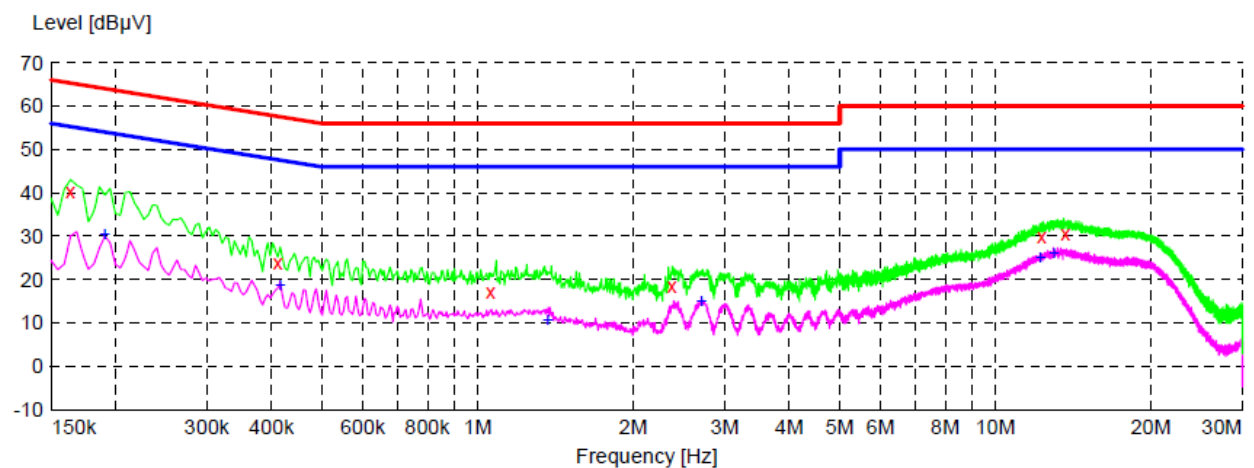
Note:

1. $\text{Margin(dB)} = \text{Limit(dB}\mu\text{V)} - \text{Level(dB}\mu\text{V)}$
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.





Live Line



Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.163500	40.30	10.0	65	25.0	QP	L1	GND
0.411000	23.90	10.0	58	33.7	QP	L1	GND
1.059000	17.30	9.7	56	38.7	QP	L1	GND
2.373000	18.40	9.7	56	37.6	QP	L1	GND
12.286500	29.90	9.9	60	30.1	QP	L1	GND
13.659000	30.70	9.9	60	29.3	QP	L1	GND

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190500	30.50	10.5	54	23.5	AV	L1	GND
0.415500	18.90	10.0	48	28.6	AV	L1	GND
1.365000	11.00	9.7	46	35.0	AV	L1	GND
2.706000	15.10	9.7	46	30.9	AV	L1	GND
12.201000	25.20	9.9	50	24.8	AV	L1	GND
12.957000	26.20	9.9	50	23.8	AV	L1	GND

Note:

1. $\text{Margin(dB)} = \text{Limit(dB}\mu\text{V)} - \text{Level(dB}\mu\text{V)}$
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.





5. TEST SETUP PHOTOGRAPHS

Please refer to separated files for Test Setup Photos of the EUT.

6. EXTERNAL PHOTOS OF THE EUT

Please refer to separated files for External Photos of the EUT.

7. INTERIOR PHOTOS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

.....End of Report.....

