



RF TEST REPORT

Product Name: Frost-free refrigerator

Model Name: HRM260P9TSE, RF225H3CSEI, HRM260P9T*E, (*) maybe A-Z

FCC ID: 2A4A3FRIDGE-780W

Issued For : Hisense Ronshen (Guangdong) Refrigerator Co.,Ltd
No.8 Ronggang Road Ronggui Shunde Foshan Guangdong
P.R.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: LGT25I218RF04-01

Sample Received Date: Sep. 27, 2025

Date of Test: Sep. 27, 2025 ~ Oct. 30, 2025

Date of Issue: Jan. 28, 2026

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.



TEST REPORT CERTIFICATION

Applicant: Hisense Ronshen (Guangdong) Refrigerator Co.,Ltd
Address: No.8 Ronggang Road Ronggui Shunde Foshan Guangdong P.R.China
Manufacturer: Hisense Ronshen (Guangdong) Refrigerator Co.,Ltd
Address: No.8 Ronggang Road Ronggui Shunde Foshan Guangdong P.R.China
Product Name: Frost-free refrigerator
Trademark: Hisense
Model Name: HRM260P9TSE, RF225H3CSEI, HRM260P9T*E, (*) maybe A-Z
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.407, Subpart E ANSI C63.10-2020 + COR.1-2023	PASS

Prepared by:

Zane Shan

Zane Shan
Engineer

Approved by:

Vita Li

Vita Li
Technical Director





Table of Contents

Page

1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACTORY	9
1.2 MEASUREMENT UNCERTAINTY	9
2 . GENERAL INFORMATION	10
2.1 GENERAL DESCRIPTION OF THE EUT	10
2.2 DESCRIPTION OF TEST MODES	12
2.3 TEST SOFTWARE AND POWER LEVEL	13
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	13
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	14
3 . EMC EMISSION TEST	16
3.1 CONDUCTED EMISSION MEASUREMENT	16
3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT	22
APPENDIX - MEASUREMENT PHOTOS	30



Revision History

Rev.	Issue Date	Contents
00	Oct. 30, 2025	Initial Issue
01	Jan. 28, 2026	Update report



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Part 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB & 99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.203/15.204	Antenna Requirement	PASS

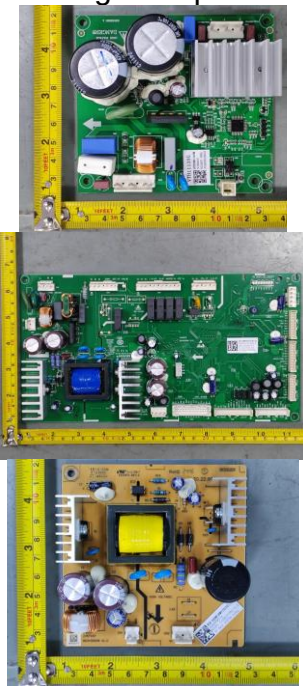
NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020 + COR.1-2023.
- (3) Base on the original report number LGT25C081RF04, for change screen module for mode HRM260P9TSE and add new model RF225H3CSEI, the new models have the same PCB board and block diagram and operating principle as the certified prototype of the model HRM260P9TSE, except for only change new refrigerator power board and touch module. Does not affect RF characteristics, from a technical point of view, it still meets the requirements of the standard except for Radiated Spurious Emission below 1GHz and Conducted Emission, and issued the revised report.

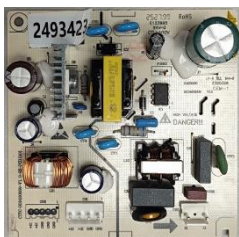


Detail of changes as below:

Model: RF225H3CSEI

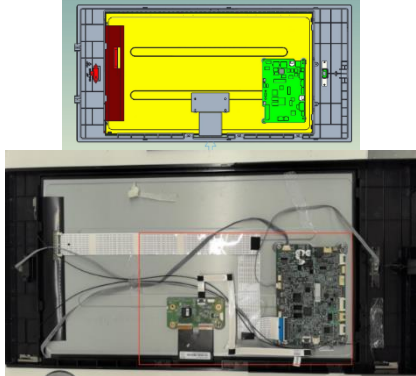
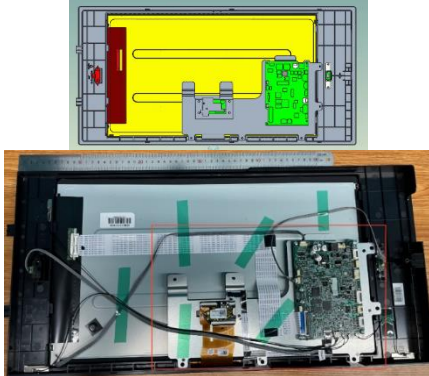
Differences	New model	Original Model
Model	RF225H3CSEI	HRM260P9TSE
DC Water Valve	No	Yes
70-35 Water Valve	Add QIAOH INDUSTRY CO LTD model QXD-30XC-AC113G(MH67331, parameter AC115V/13W/50~60Hz) with UL certified manufacturer SHANGHAI, and cancel flowmeter	No
Separate WIFI module	None, the function is reflected in the screen	Yes
Large screen (touch screen)	Yes, on the right door of refrigeration, same as Vol.1,Sec. 42 Use the same, including the updated screen (Sec.42 already included) 	No
Control Panel	1. Two pieces, one is the main transformer integrated board, and the other is the newly designed power board (only supplying power to the large screen); 2. The main transformer integrated board is changed on the basis of the main transformer integrated board of the original report product, mainly replacing the single chip microcomputer controlling the frequency conversion press, changing the main transformer communication from one-way to two-way, and replacing the 15V-5V step-down chip 	There is only one pieces plate, that is, the main transformer integrated plate 



	3. Newly designed power supply board 	
Others	1. The water storage tank is changed to injection molding rotary melting mode, and the electric valve 1973736 is deleted; the internal line is deleted to connect the electric valve connecting line. 2. Localization of built-in filter	No
Refrigeration system	Same	



Model: HRM260P9TSE

Differences	New Change	Original
Model	HRM260P9TSE	HRM260P9TSE
Touch scheme	Touch sensor:OCA GG Touch IC:ILI2 322,122 channels	Touch sensor: OCR GFF Touch IC: ILI2510,96 channels
DDR Model	H5AG36EXNDX017N Note: The old and new PCB screens are the same, DDR is only particle replacement, and the motherboard PCB circuit has not changed. 	H5AN8G6NDJR-XNC
Software	Change the touch firmware, compatible with new and old touch screen	/
Remove metal bracket		



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	Occupied Channel Bandwidth	$\pm 0.46 \%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57 \text{ dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
9	Temperature	$\pm 0.5^{\circ}\text{C}$
10	Humidity	$\pm 2\%$
11	Duty Cycle	$\pm 2.3\%$

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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Frost-free refrigerator										
Trademark:	Hisense										
Model Name:	HRM260P9TSE, RF225H3CSEI										
Serials Model Name:	HRM260P9T*E, (*) maybe A-Z										
Model Difference:	Only difference in model name.										
Product Description:	<table border="1"> <tr> <td>Operation Frequency:</td><td> IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz </td></tr> <tr> <td>Modulation Type:</td><td> IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80): 5.775GHz </td></tr> <tr> <td>Antenna Designation:</td><td>802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</td></tr> <tr> <td>Antenna Gain(dBi)</td><td>Metal Antenna</td></tr> <tr> <td></td><td>ANT 1: 2.1 ANT 2: 2.1 For MIMO mode: Directional gain=5.11 dBi</td></tr> </table> More details of EUT technical specification, please refer to the User Manual.	Operation Frequency:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz	Modulation Type:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80): 5.775GHz	Antenna Designation:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM	Antenna Gain(dBi)	Metal Antenna		ANT 1: 2.1 ANT 2: 2.1 For MIMO mode: Directional gain=5.11 dBi
Operation Frequency:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz IEEE 802.11ac(VHT80): 5.210GHz										
Modulation Type:	IEEE 802.11a/n(HT20)/ac(VHT20): 5.745GHz-5.825GHz IEEE 802.11a/n(HT40)/ac(VHT40): 5.755GHz-5.795GHz IEEE 802.11ac(VHT80): 5.775GHz										
Antenna Designation:	802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM										
Antenna Gain(dBi)	Metal Antenna										
	ANT 1: 2.1 ANT 2: 2.1 For MIMO mode: Directional gain=5.11 dBi										
Test Channel:	Please refer to the Note 3.										
Rating:	Input: AC 110-115V/60Hz, 3A										
Hardware Version:	N/A										
Software Version:	N/A										
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.

Operation Frequency of channel			
5.180GHz-5.240GHz		5.745GHz-5.825GHz	
Channel	Frequency	Channel	Frequency
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	157	5785
44	5220	159	5795
46	5230	161	5805
48	5240	165	5825

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

Channel List for 802.11a/n/ac(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	149	5745	--	--	--	--
40	5200	157	5785	--	--	--	--
48	5240	165	5825	--	--	--	--

Channel List for 802.11n/ac(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	151	5755	--	--	--	--
46	5230	159	5795	--	--	--	--
--	--	--	--	--	--	--	--

Channel List for 802.11ac(80MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775	--	--	--	--
--	--	--	--	--	--	--	--



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac VHT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 6	TX IEEE 802.11ac VHT20 CH149&CH157&CH165	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 8	TX IEEE 802.11ac VHT40 CH38&CH46	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 10	TX IEEE 802.11ac VHT40 CH151&CH159	NSS1 MCS0
Mode 11	TX IEEE 802.11ac VHT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11ac VHT80 CH155	NSS1 MCS0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
(6) All 20M,40M bandwidth modes have been tested, and the report only shown the worst mode data

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 13: TX Mode



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: 5G WIFI B1		
CMD Command	Mode Or Modulation type	SISO Power setting	MIMO Power setting
	a	14	-
	n20	12	12
	n40	12	12
	ac20	12	12
	ac40	12	12
	ac80	12	12
Test software Version	Test program: 5G WIFI B4		
CMD Command	Mode Or Modulation type	SISO Power setting	MIMO Power setting
	a	17	-
	n20	17	12
	n40	17	12
	ac20	17	12
	ac40	17	12
	ac80	17	12

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
Laptop	Lenovo	T470s	N/A	N/A

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 FOR ALL TEST ITEMS

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-NMNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
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	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2025.10.21	2026.10.20
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600-NMNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B-NMSM-1M9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241-05000KMSKMS	N.A	2025.03.08	2026.03.07
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
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	2025.03.05	2026.03.04
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Signal Analyzer	R&S	FSV40-N	102245	2025.02.17	2026.02.16
Power Sensor	R&S	NRP8S	149.0006K02-104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2025.03.06	2026.03.05



MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Jiuyuan	QJ6010E	N.A	2025.03.09	2026.03.08
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 (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

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



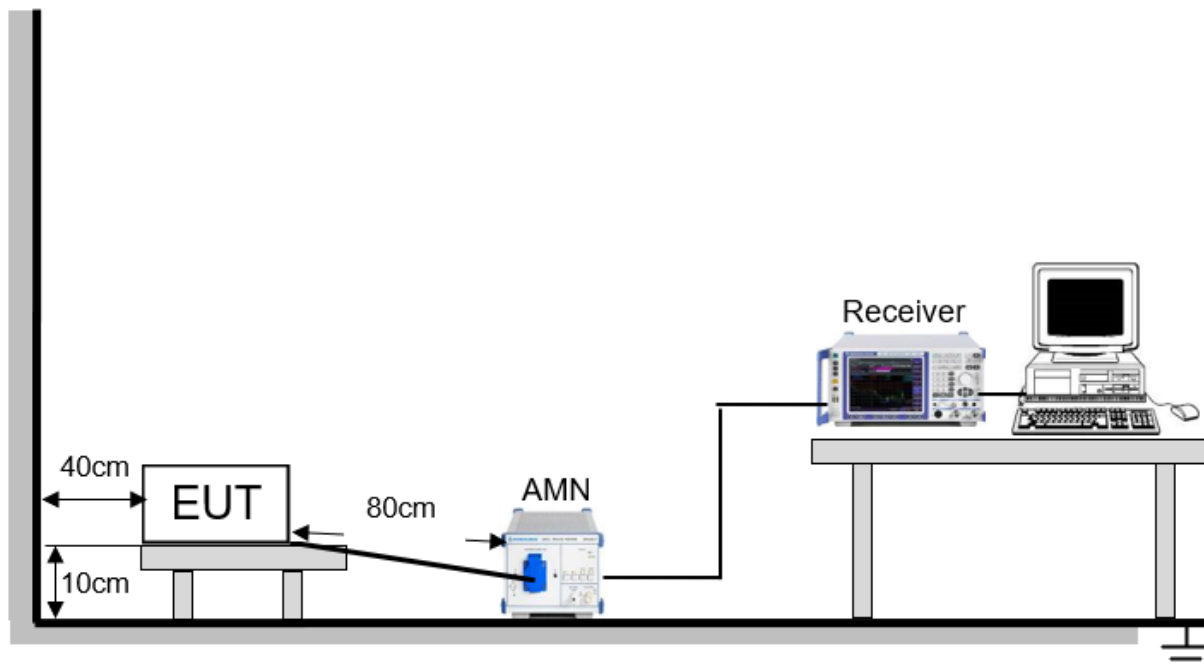
3.1.2 TEST PROCEDURE

- The EUT is 0.1 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



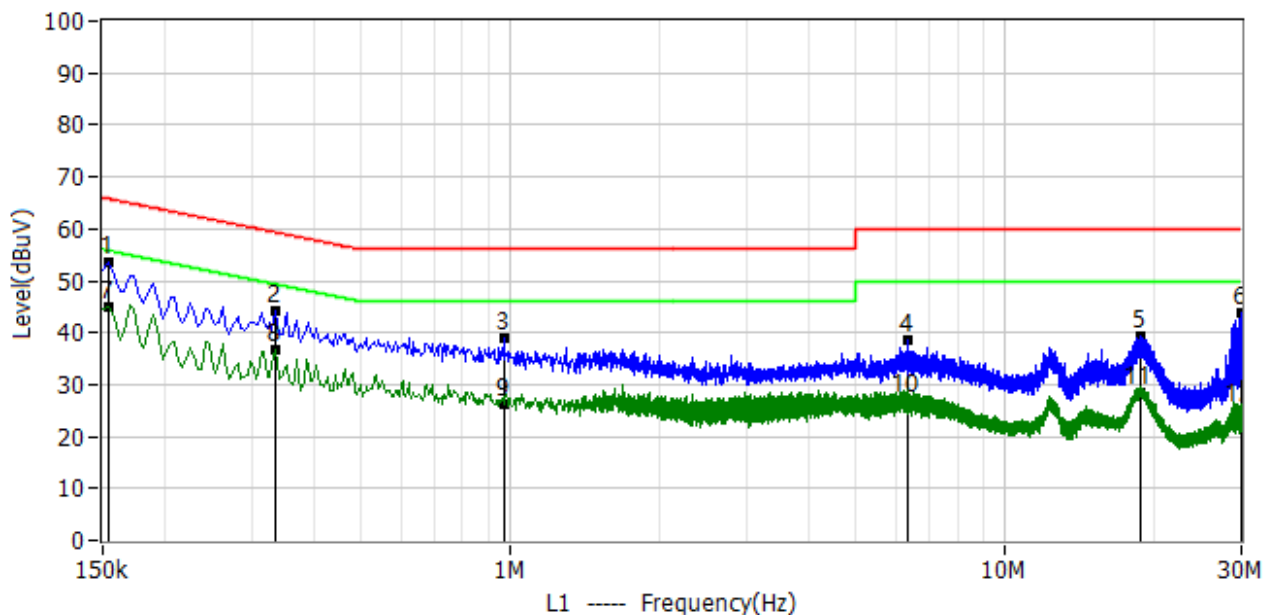
3.1.5 EUT OPERATING CONDITIONS

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.



3.1.6 TEST RESULTS

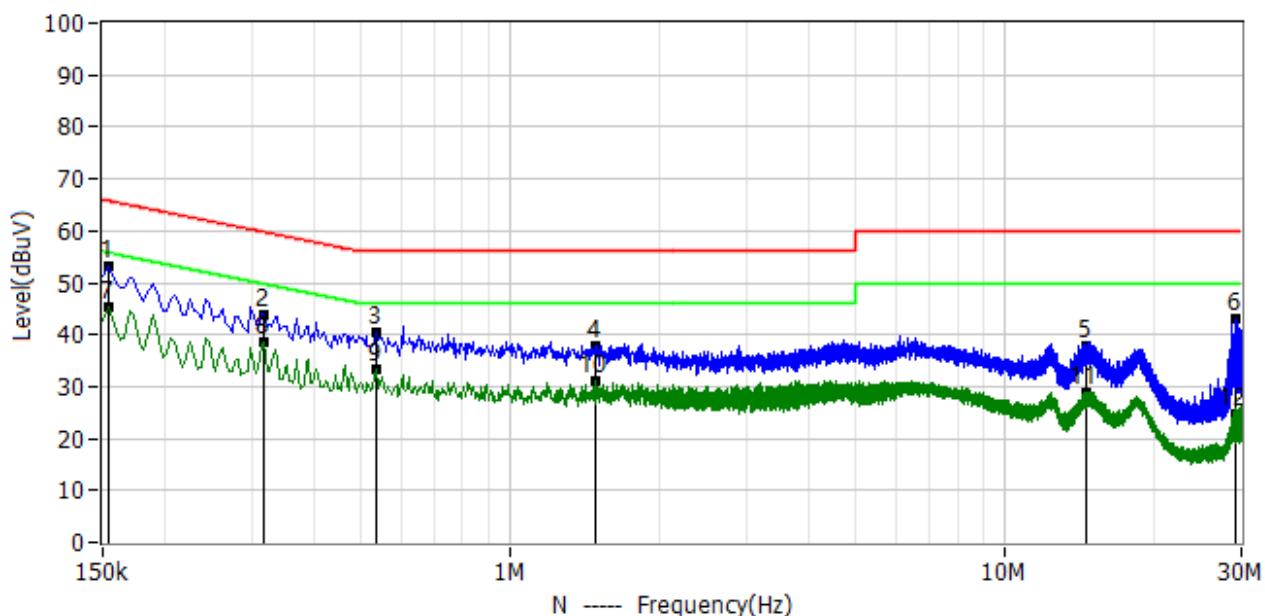
Project: LGT25I218	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 26.1°C
M/N: RF225H3CSEI	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-20
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.154	42.77	10.78	53.55	65.78	-12.23	QP	L1
2*	0.334	33.35	10.87	44.22	59.35	-15.13	QP	L1
3*	0.970	28.21	10.84	39.05	56.00	-16.95	QP	L1
4*	6.342	27.13	11.38	38.51	60.00	-21.49	QP	L1
5*	18.802	27.49	11.81	39.30	60.00	-20.70	QP	L1
6*	29.950	31.82	11.85	43.67	60.00	-16.33	QP	L1
7*	0.154	34.32	10.78	45.10	55.80	-10.70	AV	L1
8*	0.334	25.73	10.87	36.60	49.40	-12.80	AV	L1
9*	0.970	15.26	10.84	26.10	46.00	-19.90	AV	L1
10*	6.342	15.52	11.38	26.90	50.00	-23.10	AV	L1
11*	18.802	16.59	11.81	28.40	50.00	-21.60	AV	L1
12*	29.950	13.25	11.85	25.10	50.00	-24.90	AV	L1



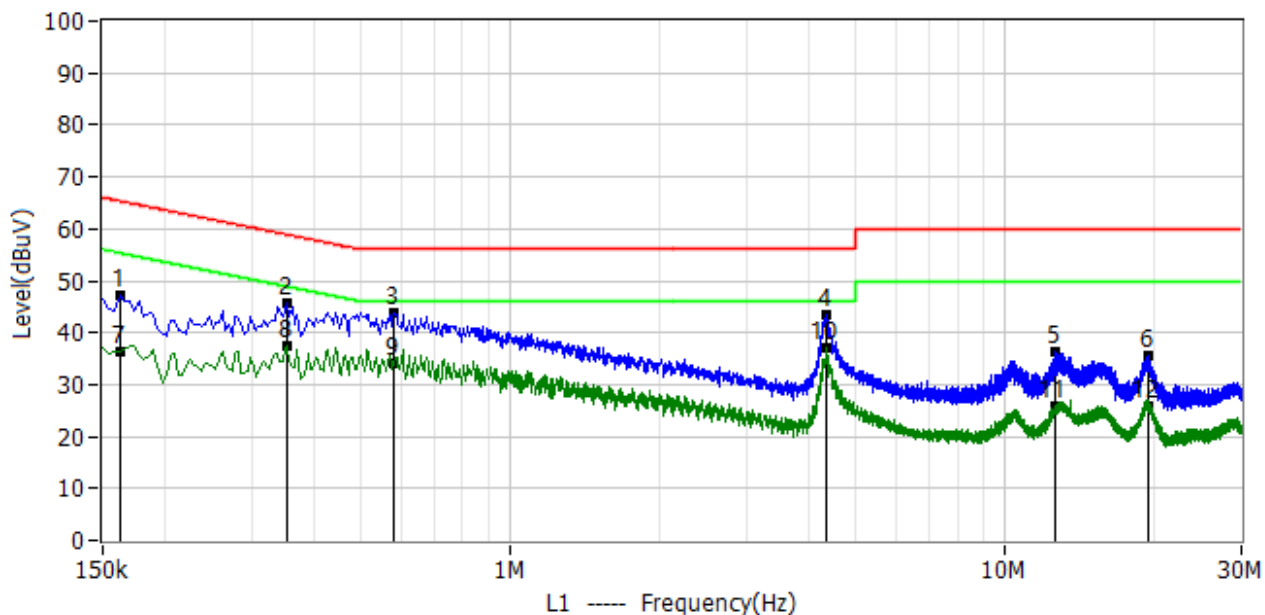
Project: LGT25I218	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 26.1°C
M/N: RF225H3CSEI	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-20
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.154	42.67	10.70	53.37	65.78	-12.41	QP	N
2*	0.318	33.02	10.78	43.80	59.80	-16.00	QP	N
3*	0.534	29.65	10.85	40.50	56.00	-15.50	QP	N
4*	1.490	26.81	11.09	37.90	56.00	-18.10	QP	N
5*	14.558	26.06	11.64	37.70	60.00	-22.30	QP	N
6*	29.330	31.34	11.82	43.16	60.00	-16.84	QP	N
7*	0.154	34.52	10.70	45.22	55.78	-10.56	AV	N
8*	0.318	27.79	10.78	38.57	49.76	-11.19	AV	N
9*	0.534	22.31	10.85	33.16	46.00	-12.84	AV	N
10*	1.490	19.92	11.09	31.01	46.00	-14.99	AV	N
11*	14.558	17.35	11.64	28.99	50.00	-21.01	AV	N
12*	29.330	12.78	11.82	24.60	50.00	-25.40	AV	N



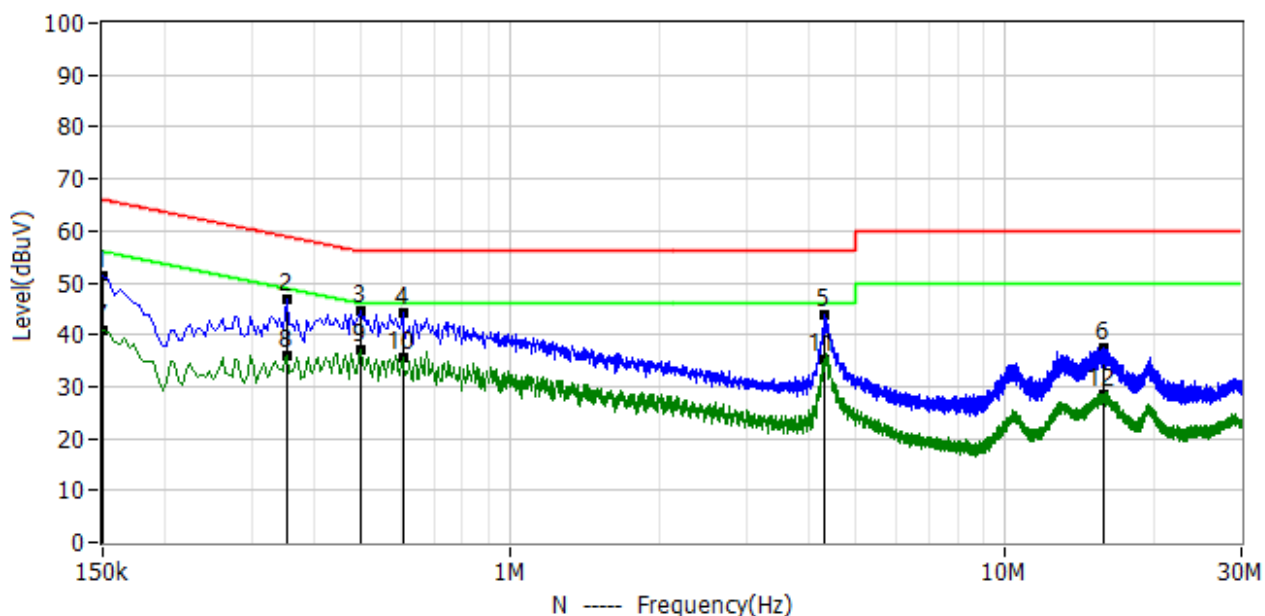
Project: LGT25I218	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25.1°C
M/N: HRM260P9TSE	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-18
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	36.32	10.71	47.03	65.36	-18.33	QP	L1
2*	0.354	34.84	10.91	45.75	58.87	-13.12	QP	L1
3*	0.582	32.76	10.95	43.71	56.00	-12.29	QP	L1
4*	4.354	32.15	11.26	43.41	56.00	-12.59	QP	L1
5*	12.574	24.67	11.61	36.28	60.00	-23.72	QP	L1
6*	19.446	23.87	11.83	35.70	60.00	-24.30	QP	L1
7*	0.162	25.79	10.71	36.50	55.40	-18.90	AV	L1
8*	0.354	26.49	10.91	37.40	48.90	-11.50	AV	L1
9*	0.582	22.95	10.95	33.90	46.00	-12.10	AV	L1
10*	4.354	25.84	11.26	37.10	46.00	-8.90	AV	L1
11*	12.574	14.09	11.61	25.70	50.00	-24.30	AV	L1
12*	19.446	14.07	11.83	25.90	50.00	-24.10	AV	L1



Project: LGT25I218	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 25.1°C
M/N: HRM260P9TSE	Humidity: 50%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-18
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.150	40.69	10.72	51.41	66.00	-14.59	QP	N
2*	0.354	35.84	10.82	46.66	58.87	-12.20	QP	N
3*	0.498	33.61	10.84	44.45	56.03	-11.58	QP	N
4*	0.606	33.28	10.86	44.14	56.00	-11.86	QP	N
5*	4.318	32.71	11.28	43.99	56.00	-12.01	QP	N
6*	15.830	25.92	11.67	37.59	60.00	-22.41	QP	N
7*	0.150	30.08	10.72	40.80	56.00	-15.20	AV	N
8*	0.354	25.18	10.82	36.00	48.90	-12.90	AV	N
9*	0.498	26.26	10.84	37.10	46.00	-8.90	AV	N
10*	0.606	24.84	10.86	35.70	46.00	-10.30	AV	N
11*	4.318	23.92	11.28	35.20	46.00	-10.80	AV	N
12*	15.830	16.93	11.67	28.60	50.00	-21.40	AV	N



3.2 RADIATED EMISSION AND (BANDEGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.



LIMITS OF EMISSIONS OUTSIDE OF THE FREQUENCY BANDS

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: dBuV/m(at 3M) = EIRP(dBm) + 95.2.

Peak Limit = -27dBm/MHz + 95.2 = 68.2 dBuV/m.

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

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



3.2.2 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 0.1 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 0.1 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:

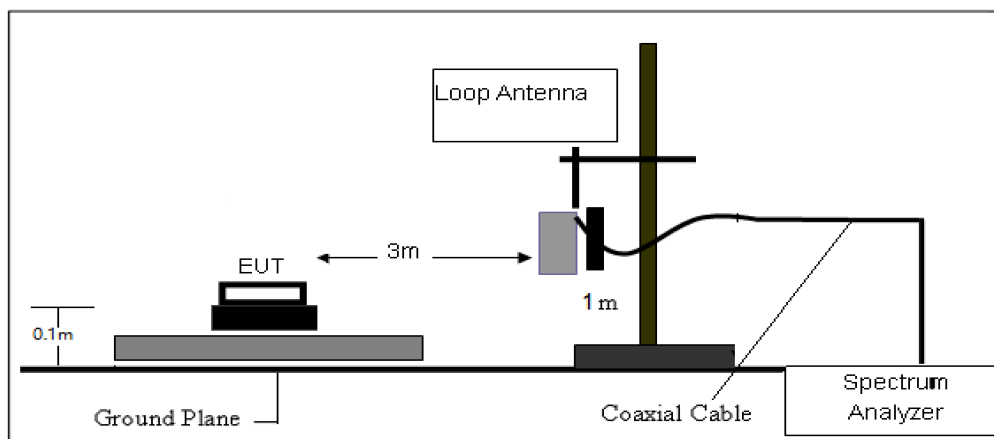
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

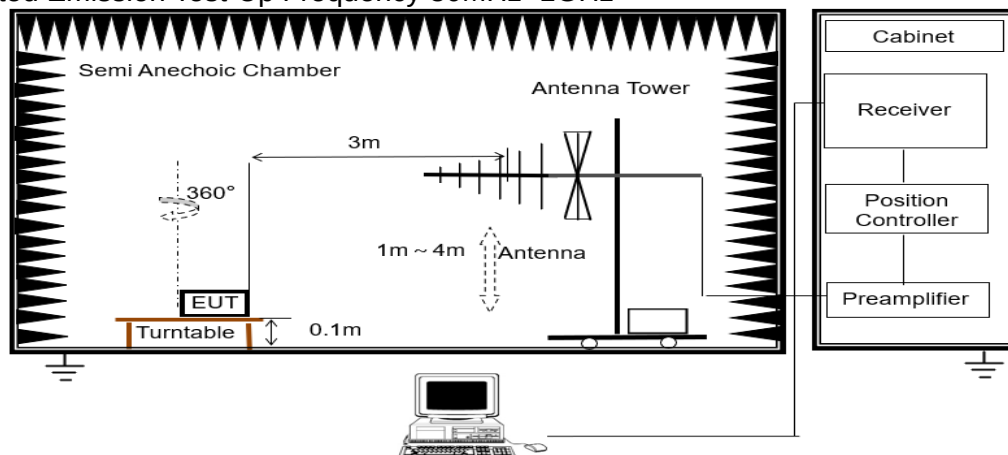
No deviation

3.2.3 TEST SETUP

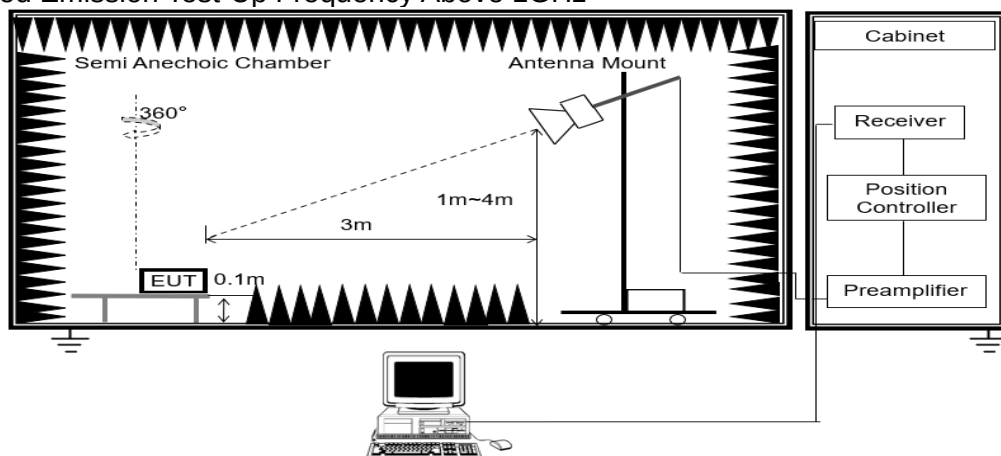
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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





3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 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)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

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



3.2.6 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

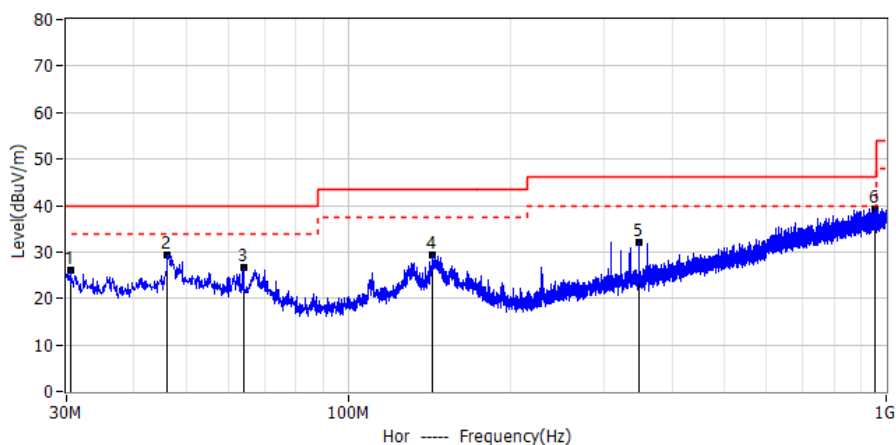
Limit line = specific limits (dBuV) + distance extrapolation factor.



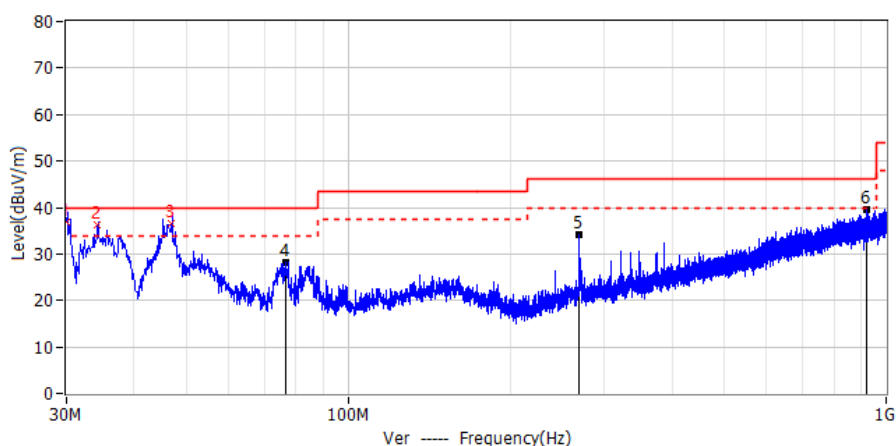
Results of Radiated Emissions (30MHz~1000MHz)

Note:1. All mode has been tested, only shown the worst case data,

Project: LGT25I218	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 23.8°C
M/N: RF225H3CSEI	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-10-21
Test Mode: TX 802.11a 5180	
Note:	



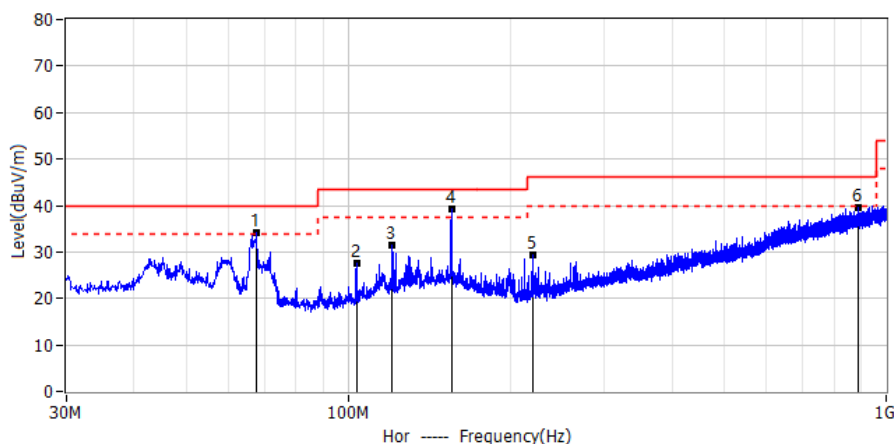
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	30.485	6.35	19.59	25.94	40.00	-14.06	QP	Hor
2*	46.126	8.66	20.71	29.37	40.00	-10.63	QP	Hor
3*	63.950	7.27	19.25	26.52	40.00	-13.48	QP	Hor
4*	143.490	7.74	21.70	29.44	43.50	-14.06	QP	Hor
5*	347.311	8.69	23.31	32.00	46.00	-14.00	QP	Hor
6*	950.773	4.45	34.94	39.39	46.00	-6.61	QP	Hor



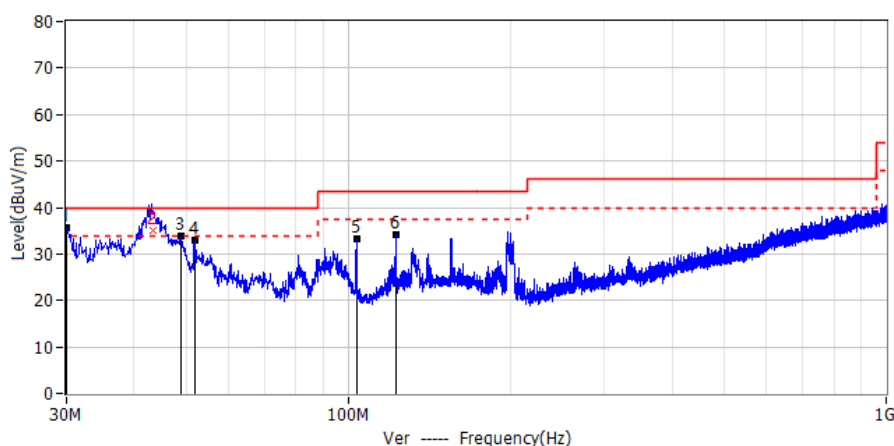
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1	30.013	17.25	19.50	36.75	40.00	-3.25	QP	Ver
2	34.261	16.59	19.80	36.39	40.00	-3.61	QP	Ver
3	46.842	15.90	20.70	36.60	40.00	-3.40	QP	Ver
4*	76.803	11.44	16.83	28.27	40.00	-11.73	QP	Ver
5*	269.226	13.50	20.56	34.06	46.00	-11.94	QP	Ver
6*	920.460	5.00	34.58	39.58	46.00	-6.42	QP	Ver



Project: LGT25I218	Test Engineer: LiuH
EUT: Frost-free refrigerator	Temperature: 26.8°C
M/N: HRM260P9TSE	Humidity: 53%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-09-17
Test Mode: TX 802.11a 5180	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	67.588	15.64	18.44	34.08	40.00	-5.92	QP	Hor
2*	103.720	10.07	17.63	27.70	43.50	-15.80	QP	Hor
3*	120.453	11.79	19.65	31.44	43.50	-12.06	QP	Hor
4*	155.736	17.33	22.03	39.36	43.50	-4.14	QP	Hor
5*	220.969	11.03	18.43	29.46	46.00	-16.54	QP	Hor
6*	887.601	5.09	34.38	39.47	46.00	-6.53	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	30.000	16.24	19.49	35.73	40.00	-4.27	QP	Ver
2	43.367	14.15	21.00	35.15	40.00	-4.85	QP	Ver
3*	49.036	12.87	21.02	33.89	40.00	-6.11	QP	Ver
4*	51.825	12.24	20.72	32.96	40.00	-7.04	QP	Ver
5*	103.720	15.52	17.63	33.15	43.50	-10.35	QP	Ver
6*	122.635	14.46	19.61	34.07	43.50	-9.43	QP	Ver



APPENDIX - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID & IC.

※※※※※END OF THE REPORT※※※※※