

TEST REPORT

Application No.: GZCR2604000787LM
Applicant: Smartek Inc.
Address of Applicant: 5534 Saint Joe Rd, Fort Wayne, IN 46835
Manufacturer: Smart Technology Co., Ltd.
Address of Manufacturer: No. 422 Haitian Avenue, Gaoming District, Foshan City, Guangdong Province, China
Product Name: Lantern
Model No.: HS445
Trade Mark: safety 1st
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2026-04-24
Date of Test: 2026-05-06 to 2026-07-06
Date of Issue: 2026-07-10

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR260400078702	2026-07-10	Original

Authorized for issue by:			
		Luke Lin	
		Luke Lin/Project Engineer	
Approved By		Vico Cui	
		Vico Cui/Reviewer	



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass**
Restricted Bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2020) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2020) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass**

** : The EUT passed Conducted Emissions at Mains Terminals (150kHz-30MHz), Radiated Emissions (30MHz-1GHz) tests after modification.

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A means Not applicable, please find the detailed decision rule in the report relative section.



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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	7
4.4 Test Location	7
4.5 Test Facility	8
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	11
6.1 Antenna Requirement	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
7 Radio Spectrum Matter Test Results	12
7.1 20dB Bandwidth	12
7.1.1 E.U.T. Operation	12
7.1.2 Test Mode Description	12
7.1.3 Test Setup Diagram	12
7.1.4 Measurement Procedure and Data	13
7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	14
7.2.1 E.U.T. Operation	14
7.2.2 Test Mode Description	14
7.2.3 Test Setup Diagram	14
7.2.4 Measurement Procedure and Data	15
7.3 Restricted Bands	18
7.3.1 E.U.T. Operation	18
7.3.2 Test Mode Description	18
7.3.3 Test Setup Diagram	18
7.3.4 Measurement Procedure and Data	19
7.4 Radiated Emissions (9kHz-30MHz)	20
7.4.1 E.U.T. Operation	20
7.4.2 Test Mode Description	21
7.4.3 Test Setup Diagram	21
7.4.4 Measurement Procedure and Data	21
7.5 Radiated Emissions (30MHz-1GHz)	26
7.5.1 E.U.T. Operation	26
7.5.2 Test Mode Description	26
7.5.3 Test Setup Diagram	27



7.5.4	Measurement Procedure and Data	27
8	Test Setup Photo	30
9	EUT Constructional Details (EUT Photos)	31



4 General Information

4.1 Details of E.U.T.

Power supply: For wireless pad: DC 5V
For light (wireless charging receiver only):
DC 5V for charge mode.
Built in lithium battery size 18650 3.7v *1pcs

Cable(s): Type-C port for power supply

Test Voltage: AC 120 V, 60 Hz

Operation frequency: 113.2kHz to 158.896kHz

Modulation type: Load modulation

Antenna type: Loop Antenna

Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	HUAWEI	Model: HW-110600C02; Input: AC 100-240V,1.8A Max.50/60Hz; Output: DC 5V/2A, 10V/4A, 11V/6A Max.	JL28L4NBM03 275



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	$\pm 0.274\%$
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	$\pm 3.22\text{dB}$
Restricted Bands	$\pm 5.14\text{dB}$ (3m); $\pm 4.90\text{dB}$ (10m); $\pm 4.88\text{dB}$ (1GHz-6GHz); $\pm 5.06\text{dB}$ (6GHz-18GHz); $\pm 5.30\text{dB}$ (18GHz-40GHz)
Radiated Emissions (9kHz-30MHz)	$\pm 3.12\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 5.14\text{dB}$ (3m); $\pm 4.90\text{dB}$ (10m)
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty) or U_{ETSI} (ETSI Uncertainty). Emission decision rule: – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2025-11-02	2026-11-01
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Coaxial Cable	HangTianXing	BL03-NMMN-6.00M	EMC0107	2025-08-12	2026-08-11
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2025/8/14	2028/8/13
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2025-08-13	2026-08-12
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2025-11-18	2026-11-17
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A

Restricted Bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2025-11-02	2026-11-01
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2026-03-28	2028-03-27
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-2GHz)	Schwarzbeck Mess- Elektronik	VULB 9168	EMC2174	2025-04-21	2027-04-20

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2026-05-14	2027-05-13



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement.

Refer to internal photos

7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9.2
 Test Engineer: Banna Ban
 Limit: For report reference only

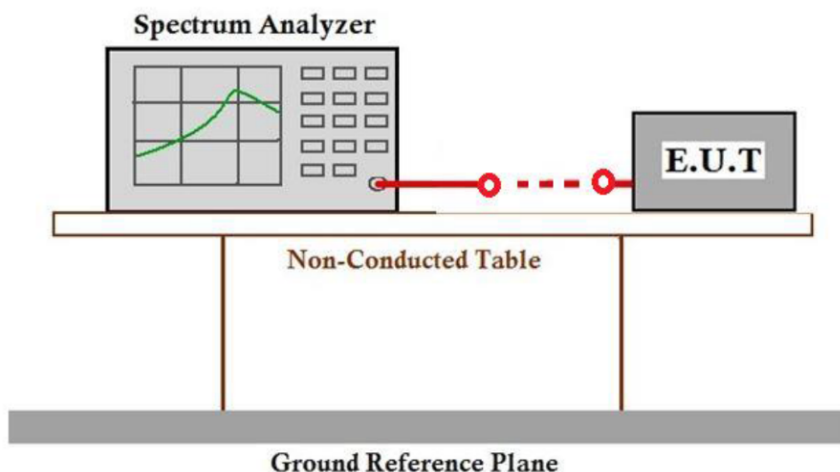
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.9 °C Humidity: 54.8 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	Charging mode_Keep the EUT charging(5W)
Final test 01	Charging mode_Keep the EUT charging(7.5W)
Final test 02	Charging mode_Keep the EUT charging(10W)
Final test 03	Charging mode_Keep the EUT charging(15W)

7.1.3 Test Setup Diagram



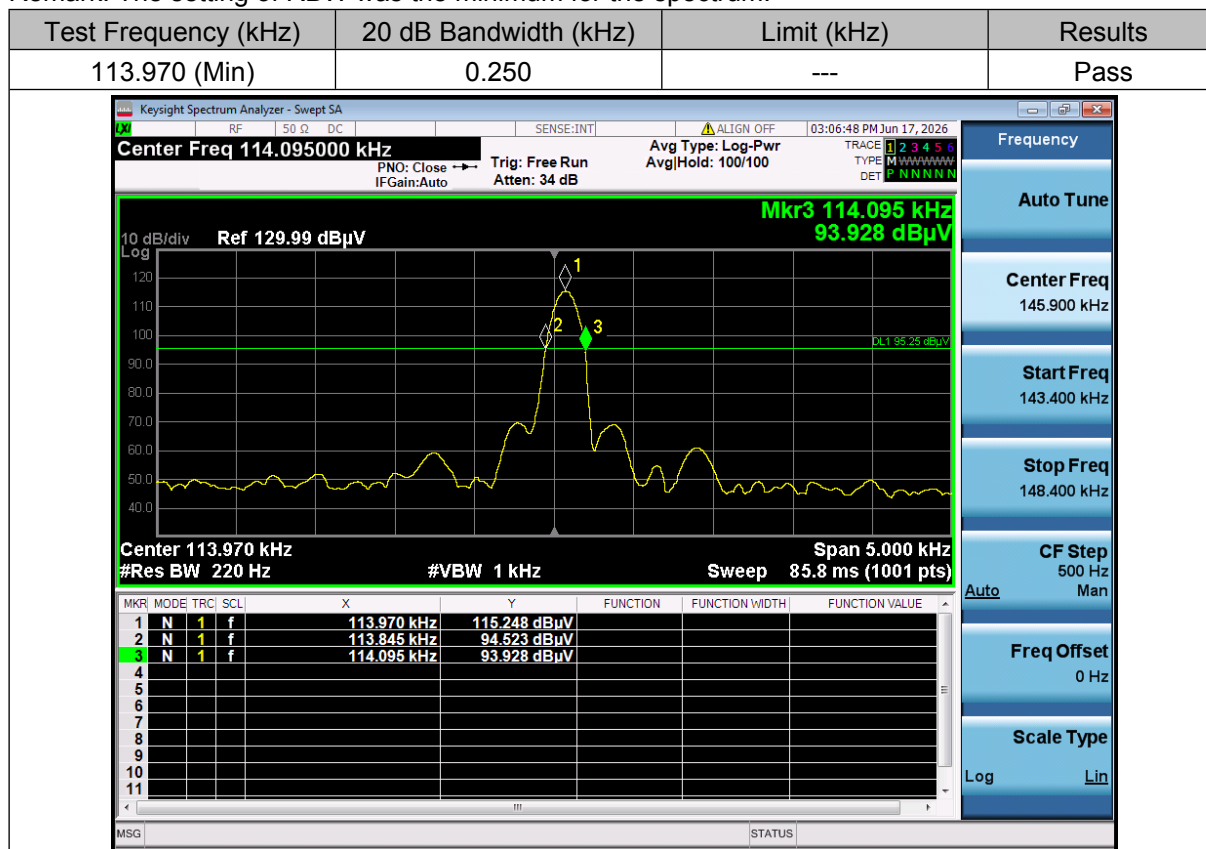
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7.1.4 Measurement Procedure and Data

Changing will take place when the charger is in contact with EUT only, no space is reserved/ designed for air because the structure of the EUT will automatically fix the device being charged closely.

Remark: The setting of RBW was the minimum for the spectrum.



7.2 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Sunny Yang

Limit:

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

*Decreases with the logarithm of the frequency.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

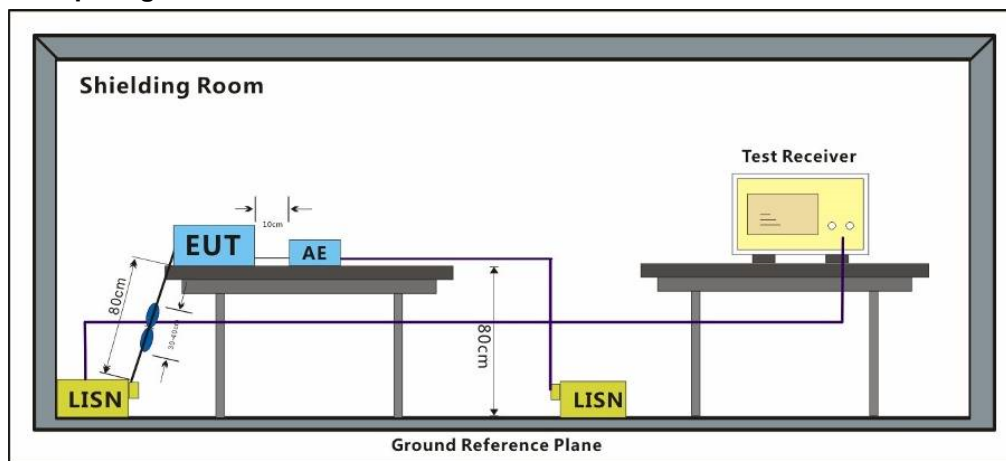
Humidity: 56.3 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Pre-scan 00	Charging mode_Keep the EUT charging(5W)
Pre-scan 01	Charging mode_Keep the EUT charging(7.5W)
Pre-scan 02	Charging mode_Keep the EUT charging(10W)
Final test 03	Charging mode_Keep the EUT charging(15W)

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

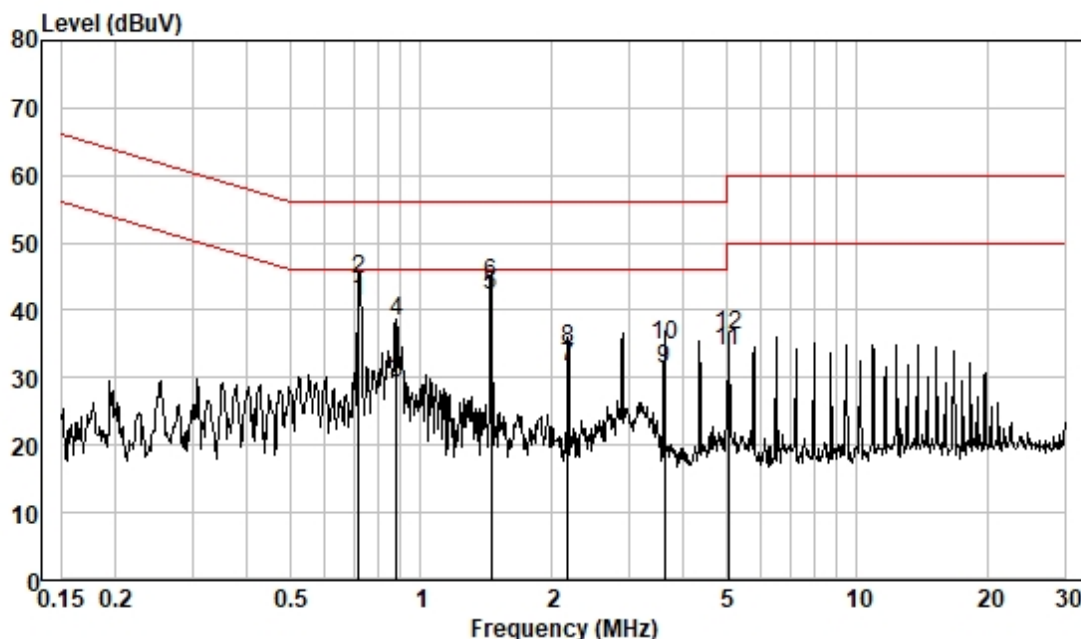
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 03; Line: Live line

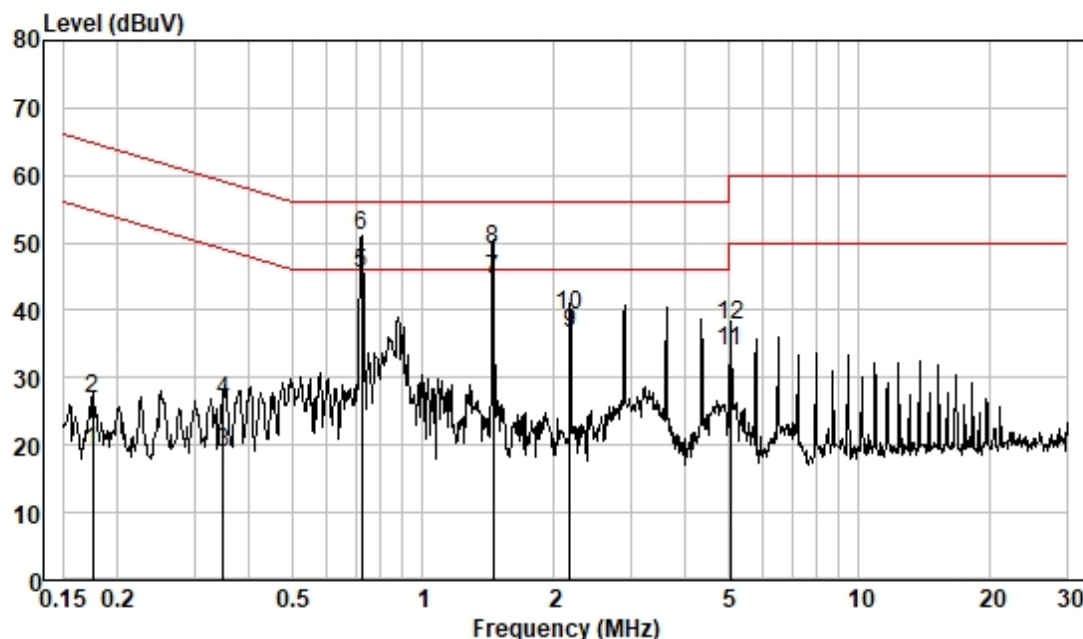


Pol :LINE
Mode :
Model :
Power :

	Freque	Read	Cable	LISN	Measured	Limit	Over	
	nc	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.720	31.65	0.06	9.58	41.29	46.00	-4.71	Average
2	0.720	34.87	0.06	9.58	44.51	56.00	-11.49	QP
3	0.880	19.52	0.07	9.59	29.18	46.00	-16.82	Average
4	0.880	28.63	0.07	9.59	38.29	56.00	-17.71	QP
5	1.449	32.65	0.10	9.58	42.33	46.00	-3.67	Average
6	1.449	34.39	0.10	9.58	44.07	56.00	-11.93	QP
7	2.167	21.74	0.13	9.57	31.44	46.00	-14.56	Average
8	2.167	24.64	0.13	9.57	34.34	56.00	-21.66	QP
9	3.623	21.55	0.17	9.62	31.34	46.00	-14.66	Average
10	3.623	24.94	0.17	9.62	34.73	56.00	-21.27	QP
11	5.058	24.13	0.20	9.62	33.95	50.00	-16.05	Average
12	5.058	26.54	0.20	9.62	36.36	60.00	-23.64	QP



Test Mode: 03; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :
Power :

	Frequeunc MHz	Read Level dBUV	Cable Loss dB	LISN Factor dB	Measured Level dBUV	Limit Line dBUV	Over Limit dB	Remark
1	0.175	9.51	0.04	9.52	19.07	54.72	-35.65	Average
2	0.175	17.45	0.04	9.52	27.01	64.72	-37.71	QP
3	0.348	9.22	0.05	9.56	18.83	49.00	-30.17	Average
4	0.348	16.92	0.05	9.56	26.53	59.00	-32.47	QP
5	0.724	35.94	0.06	9.56	45.56	46.00	-0.44	Average
6	0.724	41.35	0.06	9.56	50.97	56.00	-5.03	QP
7	1.449	35.01	0.10	9.55	44.66	46.00	-1.34	Average
8	1.449	39.33	0.10	9.55	48.98	56.00	-7.02	QP
9	2.167	26.79	0.13	9.56	36.48	46.00	-9.52	Average
10	2.167	29.68	0.13	9.56	39.37	56.00	-16.63	QP
11	5.058	24.17	0.20	9.63	34.00	50.00	-16.00	Average
12	5.058	27.95	0.20	9.63	37.78	60.00	-22.22	QP



7.3 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205

Test Method: ANSI C63.10 (2020) Section 6.10.5

Test Engineer: Banna Ban

Limit:

The fundamental wave could not fall in the restricted band 90KHz-110KHz & 495KHz-505KHz.

7.3.1 E.U.T. Operation

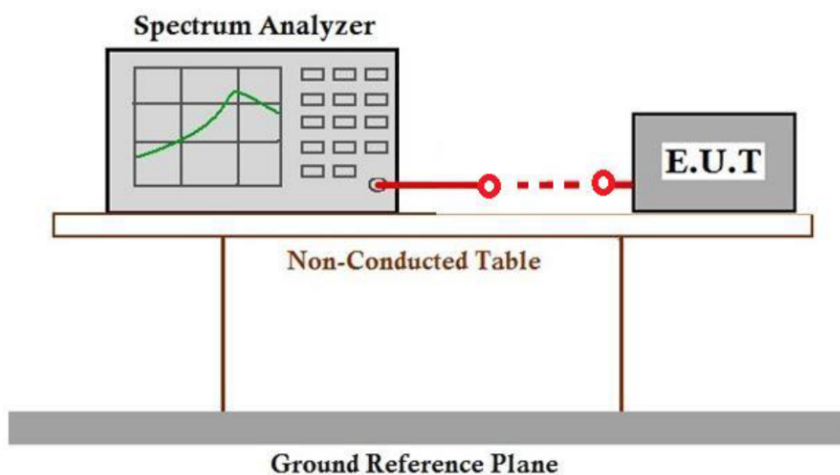
Operating Environment:

Temperature: 22.9 °C Humidity: 54.8 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	Charging mode_Keep the EUT charging(5W)
Final test	01	Charging mode_Keep the EUT charging(7.5W)
Final test	02	Charging mode_Keep the EUT charging(10W)
Final test	03	Charging mode_Keep the EUT charging(15W)

7.3.3 Test Setup Diagram



7.4 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4

Test Engineer: Bob Qu

Test Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

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

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(3m)} = FS_{(30/300m)} + 40\log\{d_{(near\ field)}/d_{(3m)}\} + 20\log\{d_{(30/300m)}/d_{(near\ field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(3m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(3m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(3m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(3m)}\} \quad (4)$$

Remark:

$$d_{near\ field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

7.4.1 E.U.T. Operation

Operating Environment:

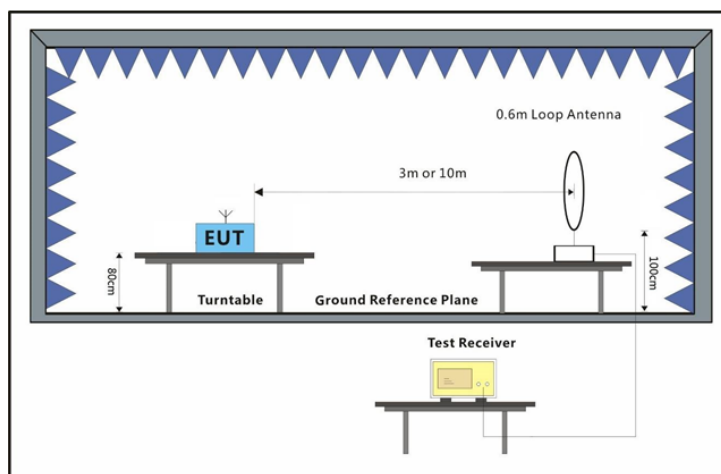
Temperature: 20.7 °C Humidity: 55.3 % RH Atmospheric Pressure: 1010 mbar



7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charging mode_Keep the EUT charging(5W)
Pre-scan	01	Charging mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charging mode_Keep the EUT charging(10W)
Final test	03	Charging mode_Keep the EUT charging(15W)

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
 - its centre shall be at 1.3 m height above the ground plane;
 - the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
 - measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement). Only worst case of the both polarizations was recorded in the test report.



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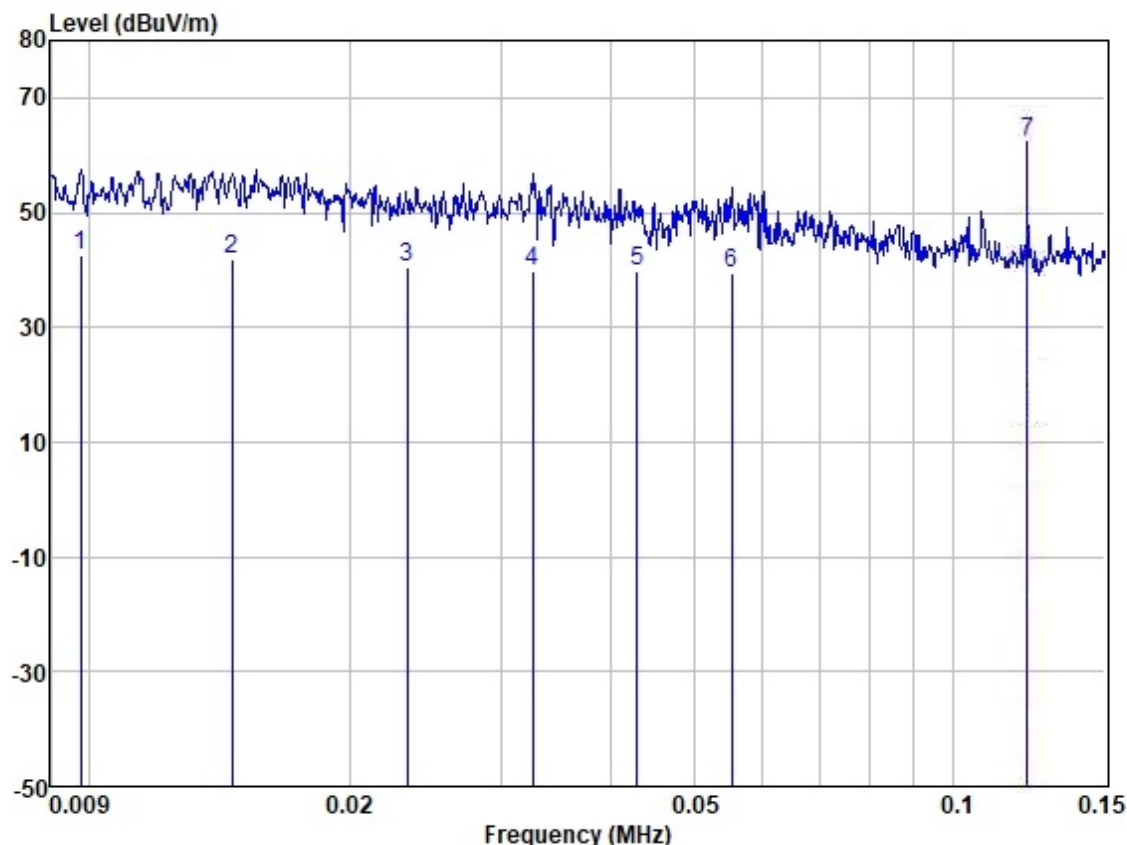
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t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 03; Polarity: Horizontal



Site : SGS
 : 0787LM
 Model :
 Power :
 Test Mode :

Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	100.77	-29.92	0.01	28.41	42.45		HORIZONTAL	Average
2	0.015	103.44	-33.11	0.01	28.49	41.85		HORIZONTAL	Average
3	0.023	104.20	-34.92	0.01	28.64	40.65		HORIZONTAL	Average
4	0.033	104.89	-35.94	0.02	29.03	39.94		HORIZONTAL	Average
5	0.043	105.28	-36.43	0.03	29.21	39.67		HORIZONTAL	Average
6	0.055	105.23	-36.66	0.03	29.29	39.31		HORIZONTAL	Average
7	0.125	81.33	11.93	0.02	29.50	63.78		HORIZONTAL	Average



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Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.010	42.45	47.60	-80	-37.55	-85.15	AV
0.015	41.85	44.08	-80	-38.15	-82.23	AV
0.023	40.65	40.37	-80	-39.35	-79.72	AV
0.033	39.94	37.23	-80	-40.06	-77.29	AV
0.043	39.67	34.93	-80	-40.33	-75.26	AV
0.055	39.31	32.80	-80	-40.69	-73.49	AV
0.125	63.78	25.60	-80	-16.22	-41.82	AV

Remark1:

Extrapolation Correction (dB)@3m to 300 m = $40 \times \log(3/300) = -80$ according to FCC part 15.31 (f) (2)

Level (dBuV/m) @ 300m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 300 m

Remark2: The frequency 125 kHz is the intentional transmitter.



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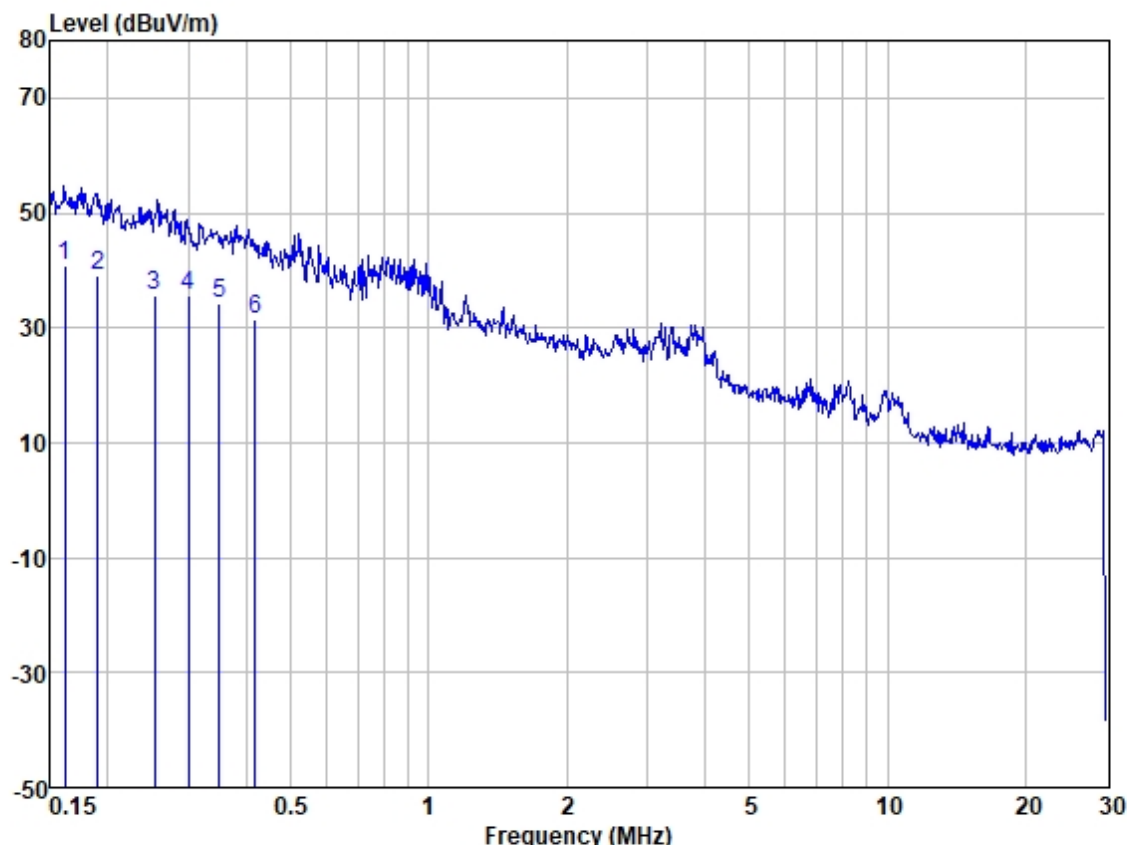
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Test Mode: 03; Polarity: Horizontal



Site : SGS
: 0787LM
Model :
Power :
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.162	107.14	-36.84	0.04	29.40	40.94			HORIZONTAL	Average
2	0.190	105.32	-36.86	0.04	29.40	39.10			HORIZONTAL	Average
3	0.253	101.85	-36.88	0.04	29.40	35.61			HORIZONTAL	Average
4	0.300	101.77	-36.89	0.05	29.40	35.53			HORIZONTAL	Average
5	0.350	100.41	-36.94	0.06	29.40	34.13			HORIZONTAL	Average
6	0.419	97.78	-37.00	0.07	29.40	31.45			HORIZONTAL	Average



Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.1620	40.94	23.41	-80	-39.06	-62.47	AV
0.190	39.10	22.03	-80	-40.90	-62.93	AV
0.253	35.61	19.54	-80	-44.39	-63.93	AV
0.300	35.53	18.06	-80	-44.47	-62.53	AV
0.350	34.13	16.72	-80	-45.87	-62.59	AV
0.419	31.45	15.16	-80	-48.55	-63.71	AV

Remark1:

Extrapolation Correction (dB)@3m to 300 m = $40 \cdot \log(3/300) = -80$ according to FCC part 15.31 (f) (2)

Level (dBuV/m) @ 300m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 300 m



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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.5

Test Engineer: Bob Qu

Test Distance: 10 m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

Note

At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Limit = The limit above - Aux Factor (if applicable)

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 56.4 % RH

Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

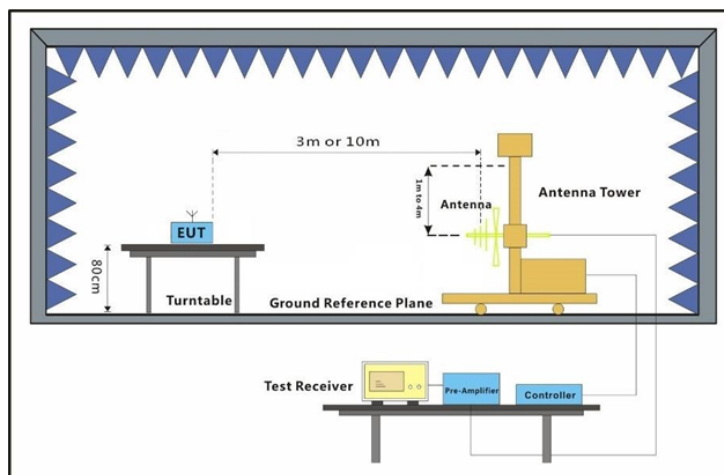
Pre-scan / Mode	Description
Final test Code	
Pre-scan 00	Charging mode_Keep the EUT charging(5W)
Pre-scan 01	Charging mode_Keep the EUT charging(7.5W)
Pre-scan 02	Charging mode_Keep the EUT charging(10W)
Final test 03	Charging mode_Keep the EUT charging(15W)



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

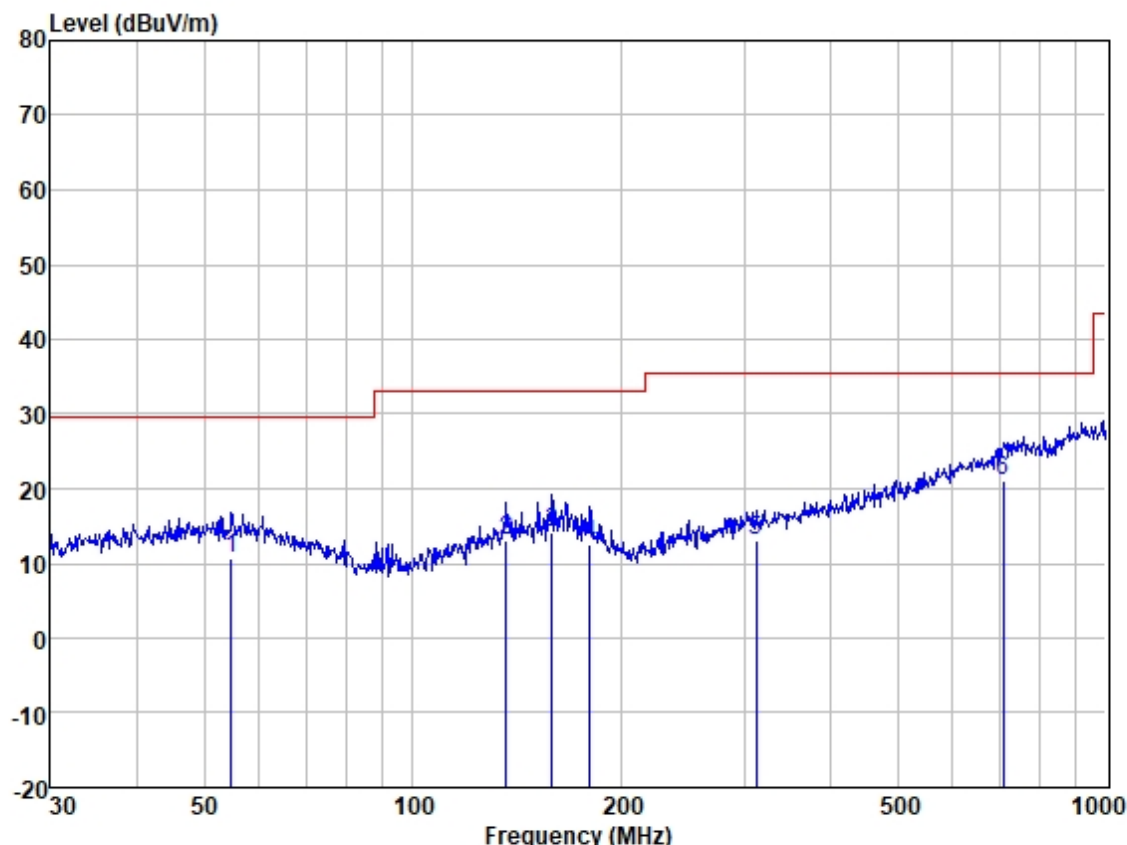
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 03; Polarity: Horizontal

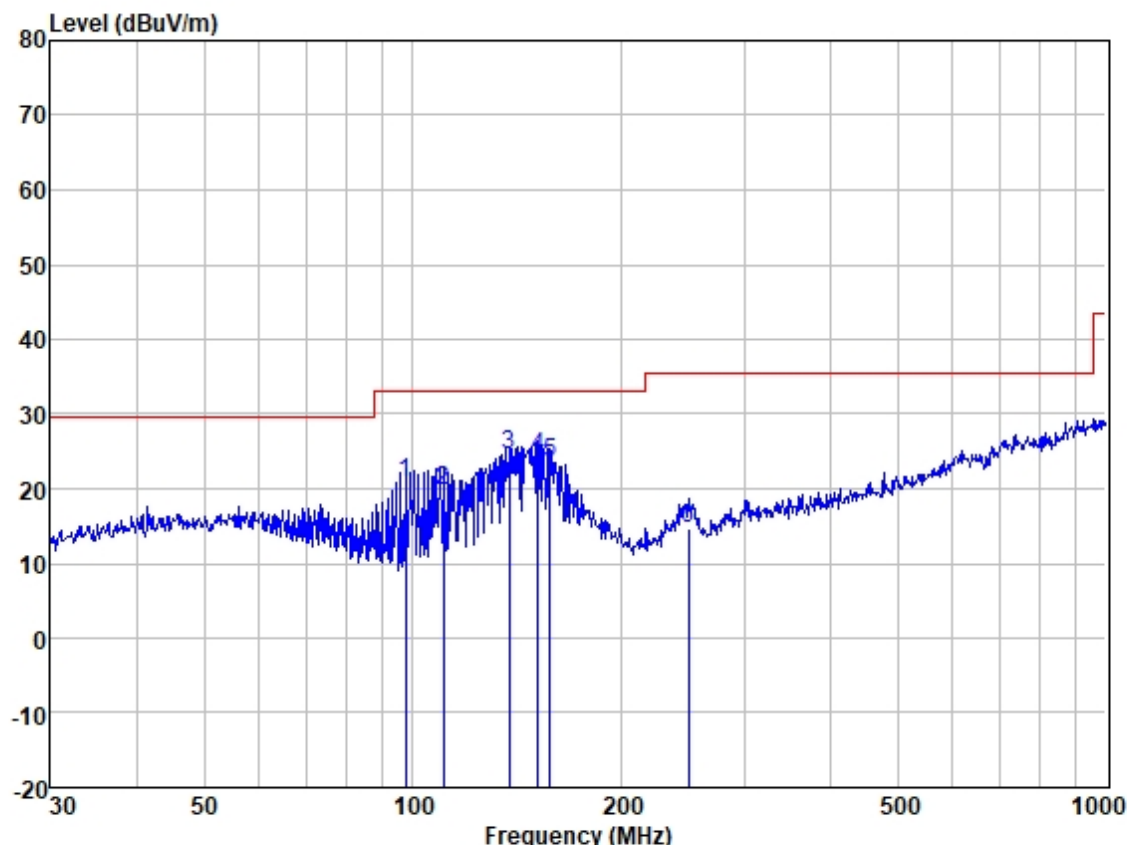


Site : SGS
Job :
Model : 2#
Power : 120V
Test Mode : Charging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	54.643	24.22	13.77	0.76	27.95	10.80	29.50	-18.70	HORIZONTAL	QP
2	136.460	26.90	12.90	0.95	27.75	13.00	33.10	-20.10	HORIZONTAL	QP
3	158.668	27.40	13.44	1.02	27.70	14.16	33.10	-18.94	HORIZONTAL	QP
4	180.017	26.21	12.90	1.09	27.64	12.56	33.10	-20.54	HORIZONTAL	QP
5	312.179	24.57	13.89	1.71	27.23	12.94	35.60	-22.66	HORIZONTAL	QP
6	709.182	26.10	21.12	2.31	28.33	21.20	35.60	-14.40	HORIZONTAL	QP



Test Mode: 03; Polarity: Vertical



Site : SGS
Job :
Model : 2#
Power : 120V
Test Mode : Charging

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	97.456	39.00	8.68	0.84	27.80	20.72	33.10	-12.38	VERTICAL	QP
2	110.569	36.03	10.51	0.87	27.79	19.62	33.10	-13.48	VERTICAL	QP
3	137.420	38.40	12.96	0.95	27.75	24.56	33.10	-8.54	VERTICAL	QP
4	151.597	37.63	13.47	0.99	27.72	24.37	33.10	-8.73	VERTICAL	QP
5	157.559	36.67	13.48	1.01	27.71	23.45	33.10	-9.65	VERTICAL	QP
6	249.425	28.55	12.00	1.53	27.28	14.80	35.60	-20.80	VERTICAL	QP



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR260400078702



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2604000787LM

- End of the Report -

