

Report No.: GZCR220100008301

Page: 1 of 31 FCC ID: 2AQTS-MP

TEST REPORT

Application No.:GZCR2201000083ATApplicant:Line Friends Corporation

Address of Applicant: 5F,98, Hannam-daero, Yongsan-gu, Seoul, South Korea

Manufacturer: Bath & Beauty Work, Ltd.

Address of Manufacturer: 277 broadway suit 1208 new york, NY 100072033, USA

Factory: Bath & Beauty Work, Ltd.

Address of Factory: 277 broadway suit 1208 new york, NY 100072033, USA

Equipment Under Test (EUT):

EUT Name: mouse pad

Model No.: 8809841681698

Standard(s): 47 CFR Part 15, Subpart C

Date of Receipt: 2022-01-20

Date of Test: 2022-02-16 to 2022-02-24

Date of Issue: 2022-03-03

Test Result: Pass*

Kobe Jian EMC Laboratory Manager

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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	GZCR220100008301	2022-03-03	Original			

Authorized for issue by:			
	Cof Vhu		
	Curry Wu/Project Engineer	_	
	Riday Liv		
	Ricky Liu/Reviewer	_	



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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			
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
Radiated Emissions (30MHz-1GHz)	45.050.0 . 45	ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Radiated Emissions (9kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass			
Restricted Bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass			

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.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V supplied by adaptor Cable(s): about 1m USB type C cable

Test Voltage: AC 120 V, 60 Hz powered by DC Power Adapter refer to section 4.2

Operation frequency: 115.900kHz to 135.682kHz

Modulation type: Load modulation
Antenna type: Loop Antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
		DBS15QC	
DC Power Adapter	Cullpower	(Input: AC 180-230V, 50Hz; Output: DC5V/3A, DC9V/2A, DC12V/1.5A)	/
Wireless changing resistor load	1	5W/7.5W/10W/15W	/

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 2.76dB
Radiated Emissions (30MHz-1GHz)	±5.00dB (3m); ±4.38dB (10m)
Radiated Emissions (9kHz-30MHz)	± 3.12dB
20dB Bandwidth	± 3%
Restricted Bands	± 3%

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

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:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08	
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2019-10-20	2022-10-19	
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23	
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2021-06-01	2022-05-31	
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A	

Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08	
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18	
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2019-08-08	2022-08-07	

Radiated Emissions (9kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08	
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18	
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2020-04-16	2022-04-15	
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	

20dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01		
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-05	2022-03-01		



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Restricted Bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-02	2023-11-01
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2021-03-05	2022-03-01

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05



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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



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Erequency of emission/MU=)	Conducted limit(dBµV)					
Frequency of emission(MHz)	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.						

7.1.1 E.U.T. Operation

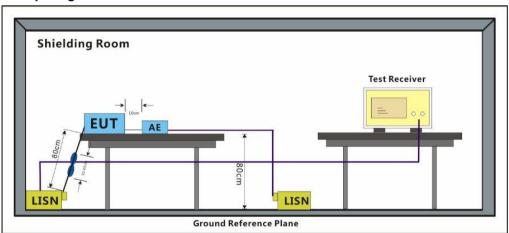
Operating Environment:

Temperature: 22.4 °C Humidity: 58.6 % RH Atmospheric Pressure: 1014 mbar

7.1.2 Test Mode Description

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

7.1.3 Test Setup Diagram





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7.1.4 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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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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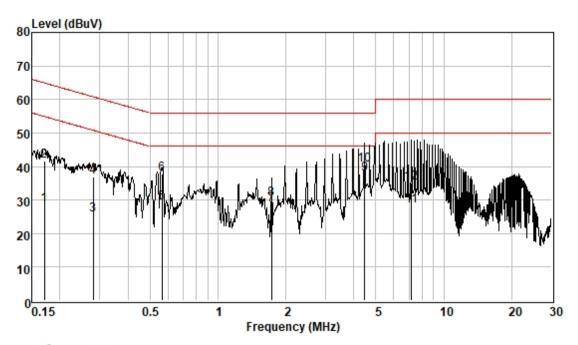
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Test Mode: 03; Line: Live line



Pol :LINE Mode : Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.17	19.05	0.06	9.55	28.66	54.94	-26.28	Average
0.17	31.89	0.06	9.55	41.50	64.94	-23.44	QP
0.28	15.92	0.06	9.57	25.55	50.81	-25.26	Average
0.28	27.18	0.06	9.57	36.81	60.81	-24.00	QP
0.56	19.53	0.07	9.59	29.19	46.00	-16.81	Average
0.56	28.00	0.07	9.59	37.66	56.00	-18.34	QP
1.73	18.82	0.11	9.60	28.53	46.00	-17.47	Average
1.73	20.71	0.11	9.60	30.42	56.00	-25.58	QP
4.45	27.98	0.17	9.65	37.80	46.00	-8.20	Average
4.45	30.48	0.17	9.65	40.30	56.00	-15.70	QP
7.18	18.29	0.21	9.75	28.25	50.00	-21.75	Average
7.18	25.25	0.21	9.75	35.21	60.00	-24.79	QP



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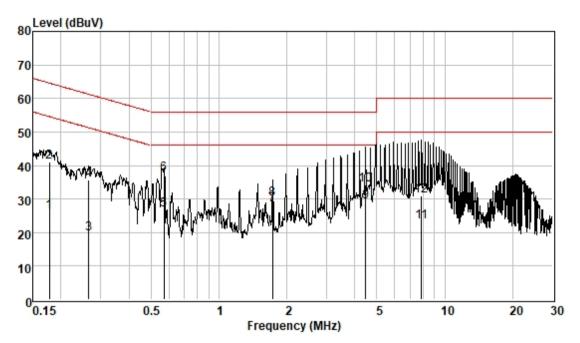
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Test Mode: 03; Line: Neutral Line



Pol :NEUTRAL

Mode : Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.18	16.64	0.06	9.54	26.24	54.59	-28.35	Average
0.18	31.47	0.06	9.54	41.07	64.59	-23.52	QP QP
0.27	10.08	0.06	9.56	19.70	51.25	-31.55	Average
0.27	26.05	0.06	9.56	35.67	61.25	-25.58	QP
0.57	17.11	0.07	9.58	26.76	46.00	-19.24	Average
0.57	27.89	0.07	9.58	37.54	56.00	-18.46	QP
1.73	18.60	0.11	9.59	28.30	46.00	-17.70	Average
1.73	20.32	0.11	9.59	30.02	56.00	-25.98	QP
4.45	19.42	0.17	9.64	29.23	46.00	-16.77	Average
4.45	24.26	0.17	9.64	34.07	56.00	-21.93	QP
7.89	13.37	0.21	9.76	23.34	50.00	-26.66	Average
7.89	21 00	0.21	9.76	30.97	60.00	-29.03	OP



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7.2 Radiated Emissions (30MHz-1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.5

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.

7.2.1 E.U.T. Operation

Operating Environment:

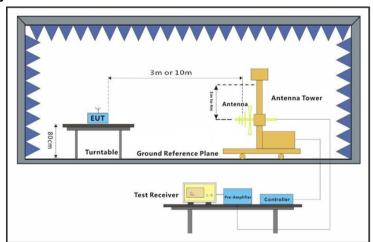
Temperature: 22.2 °C Humidity: 52 % RH Atmospheric Pressure: 1014 mbar

7.2.2 Test Mode Description

Mode Code	Description
00	Charge mode_Keep the EUT charging(5W)
01	Charge mode_Keep the EUT charging(7.5W)
02	Charge mode_Keep the EUT charging(10W)
03	Charge mode_Keep the EUT charging(15W)
	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.
	Code 00 01 02

Final test was performed to the worse case found in pre-scan.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. 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.
- h. Repeat above procedures until all frequencies measured was complete.

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

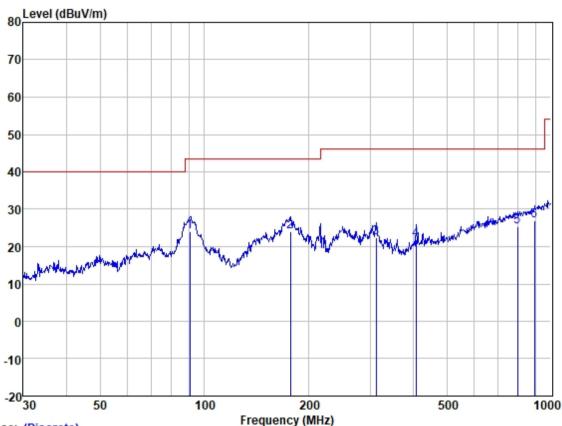




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Test Mode: 03; Polarity: Horizontal



Trace: (Discrete)

Site : SGS Job : Model : Power : Test Mode : 15W

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	90.86	41.60	7.95	1.64	27.09	24.10	43.50	-19.40	HORIZONTAL	QP
2	176.89	35.86	12.40	2.43	26.76	23.93	43.50	-19.57	HORIZONTAL	QP
3	312.18	31.64	14.00	3.26	26.61	22.29	46.00	-23.71	HORIZONTAL	QP
4	407.51	29.54	15.85	3.97	27.36	22.00	46.00	-24.00	HORIZONTAL	QP
5	798.98	24.61	22.60	6.17	28.03	25.35	46.00	-20.65	HORIZONTAL	QP
6	893.86	24.83	23.17	6.86	27.86	27.00	46.00	-19.00	HORIZONTAL	QP



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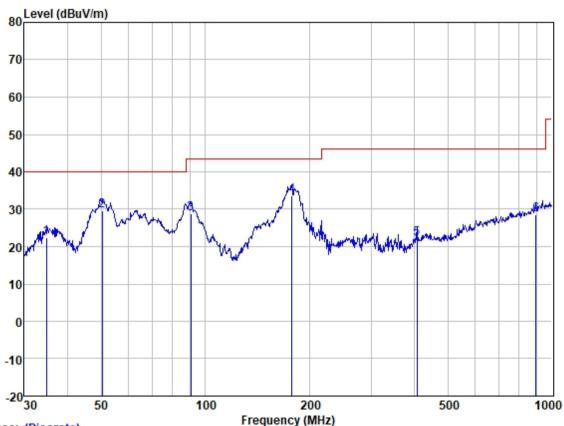
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Test Mode: 03; Polarity: Vertical



Trace: (Discrete)

Site : SGS Job : Model : Power : Test Mode : 15W

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	34.76	35.70	12.87	1.07	27.18	22.46	40.00	-17.54	VERTICAL	QP
2	50.41	41.65	13.91	1.15	27.17	29.54	40.00	-10.46	VERTICAL	QP
3	90.86	46.27	7.95	1.64	27.09	28.77	43.50	-14.73	VERTICAL	QP
4	177.51	45.58	12.30	2.43	26.76	33.55	43.50	-9.95	VERTICAL	QP
5	407.51	29.70	15.85	3.97	27.36	22.16	46.00	-23.84	VERTICAL	QP
6	897.00	26.22	23.23	6.92	27.85	28.52	46.00	-17.48	VERTICAL	QP



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7.3 Radiated Emissions (9kHz-30MHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4

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):

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

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

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

Remark:

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

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



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7.3.1 E.U.T. Operation

Operating Environment:

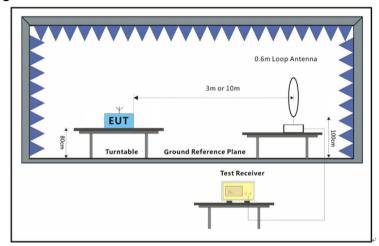
Temperature: 22.3 °C Humidity: 52 % RH Atmospheric Pressure: 1014 mbar

7.3.2 Test Mode Description

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

automatically fix the device being charged closely. Final test was performed to the worse case found in pre-scan.

7.3.3 Test Setup Diagram





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7.3.4 Measurement Procedure and Data

- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
- i. its centre shall be at 1.3 m height above the ground plane;
- ii. 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
- iii. 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):
- · coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
- · coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).



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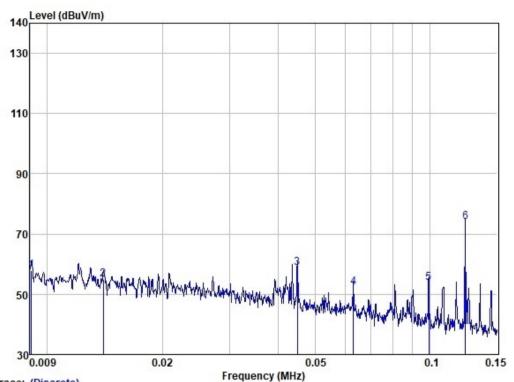
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Test Mode: 03; coaxial



Trace: (Discrete)

Site : SGS Job : Model : Power : Test Mode : 15W

	Freq		Anterna Factor			Measured Level
	MHz	dBuV	dB/m	dB	dB	dBuV/m
1	0.009	67.92	18.04	0.05	28.15	57.86
2	0.014	68.47	14.55	0.05	28.25	54.82
3	0.045	75.98	11.96	0.05	29.24	58.75
4	0.063	70.12	11.54	0.05	29.36	52.35
5	0.099	72.71	10.41	0.05	29.47	53.70
6	0.124	92.96	10.48	0.05	29.47	74.02

Frequency (MHz)	AV Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)
0.009	57.86	48.52	80	-22.14	-70.66
0.014	54.82	44.68	80	-25.18	-69.86
0.045	58.75	34.54	80	-21.25	-55.79
0.063	52.35	31.62	80	-27.65	-59.27
0.099	53.70	27.69	80	-26.30	-53.99
0.124	74.02	25.74	80	-5.98	-31.72



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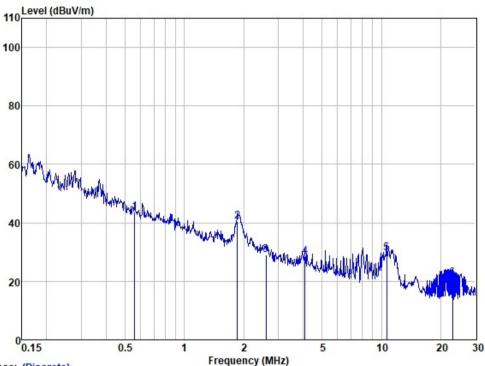
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Test Mode: 03; coaxial



Trace: (Discrete)

Site : SGS Job : Model : Power : Test Mode : 15W

	Freq	Read Level				Measured Level	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	-
1	0.561	62.24	10.67	0.09	29.42	43.58	QP
2	1.858	58.63	10.97	0.19	29.38	40.41	QP
3	2.594	47.34	10.91	0.28	29.37	29.16	QP
4	4.092	46.86	10.56	0.34	29.34	28.42	QP
5	10.620	48.37	9.98	0.53	29.29	29.59	QP
6	23.018	41.12	8.34	0.86	29.17	21.15	QP

Frequency (MHz)	Level @3m (dBuV/m)	Limit @30m (dBuV/m)	Convert Factor (dB)	Level @ 30m (dBuV/m)	Over limit (dB)
0.561	43.58	32.62	40	3.58	-29.04
1.858	40.41	22.22	40	0.41	-21.81
2.594	29.16	29.54	40	-10.84	-40.38
4.092	28.42	29.54	40	-11.58	-41.12
10.62	29.59	29.54	40	-10.41	-39.95
23.018	21.15	29.54	40	-18.85	-48.39



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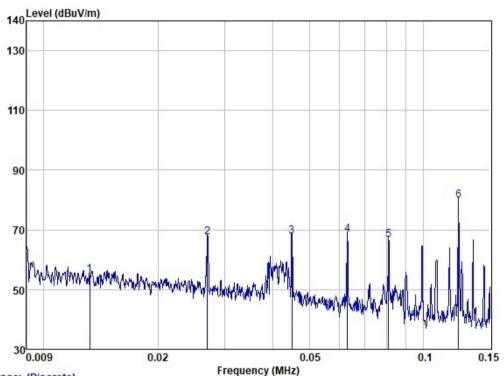
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Test Mode: 03; coplanar



Trace: (Discrete)

Site : SGS Job : Model : Power : Test Mode : 15W

	Freq	Read Level	Anterna Factor			Measured Level
	MHz	dBuV	dB/m	dB	dB	dBuV/m
1	0.013	68.07	14.94	0.05	28.23	54.83
2	0.027	83.40	12.76	0.05	28.61	67.60
3	0.045	85.20	11.96	0.05	29.24	67.97
4	0.063	86.20	11.54	0.05	29.36	68.43
5	0.081	85.45	10.70	0.05	29.43	66.77
6	0.124	98.81	10.48	0.05	29.47	79.87

Frequency (MHz)	AV Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Convert Factor (dB)	Level @ 300m (dBuV/m)	Over limit (dB)	
0.013	54.83	45.33	80	-25.17	-70.50	
0.027	67.60	38.98	80	-12.40	-51.38	
0.045	67.97	34.54	80	-12.03	-46.57	
0.063	68.43	31.62	80	-11.57	-43.19	
0.081	66.77	29.43	80	-13.23	-42.66	
0.124	79.87	25.74	80	-0.13	-25.87	



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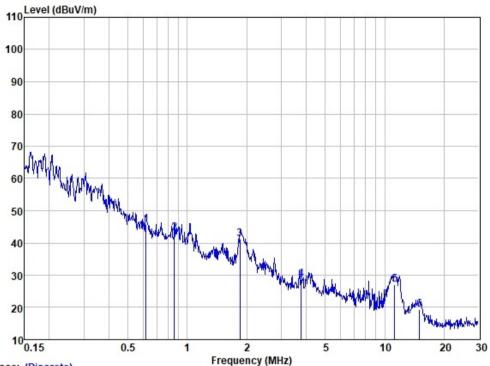
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Test Mode: 03; coplanar



Trace: (Discrete)

Site : SGS Job : Model : Power : Test Mode : 15W

	Freq					Measured Level	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	-
1	0.617	64.28	10.64	0.11	29.42	45.61	QP
2	0.862	61.82	10.44	0.13	29.41	42.98	QP
3	1.848	59.43	10.96	0.19	29.38	41.20	QP
4	3.779	47.15	10.59	0.33	29.34	28.73	QP
5	11.257	46.04	9.81	0.54	29.28	27.11	QP
6	14.986	39.29	8.72	0.60	29.24	19.37	QP

Frequency (MHz)	Level @3m (dBuV/m)	Limit @30m (dBuV/m)	Convert Factor (dB)	Level @ 30m (dBuV/m)	Over limit (dB)
0.617	45.61	31.80	40	5.61	-26.19
0.862	42.98	28.89	40	2.98	-25.91
1.848	41.20	29.54	40	1.20	-28.34
3.779	28.73	29.54	40	-11.27	-40.81
11.257	27.11	29.54	40	-12.89	-42.43
14.986	19.37	29.54	40	-20.63	-50.17



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7.4 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit: For report reference only

7.4.1 E.U.T. Operation

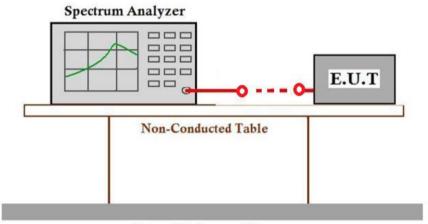
Operating Environment:

Temperature: 18.0 °C Humidity: 54.7 % RH Atmospheric Pressure: 1014 mbar

7.4.2 Test Mode Description

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

7.4.3 Test Setup Diagram



Ground Reference Plane



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7.4.4 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.





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7.5 Restricted Bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit: The fundamental wave could not fall in the restricted band 90KHz-110KHz

7.5.1 E.U.T. Operation

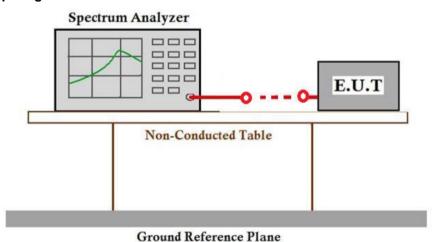
Operating Environment:

Temperature: 18.0 °C Humidity: 54.7 % RH Atmospheric Pressure: 1014 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram





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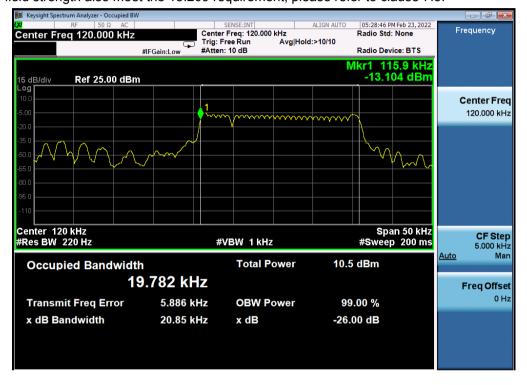
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7.5.4 Measurement Procedure and Data

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.

According the test data below, the fundamental wave is not fall in the restricted band 90k~110kHz, the field strength also meet the 15.209 requirement, please refer to clause 7.3.





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Test Setup Photo 8

Refer to Setup Photo for GZCR220100008301



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2201000083AT

- End of the Report -



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