

 Report No.: GZCR210802093501

 Page:
 1 of 30

 FCC ID: OXM000132

TEST REPORT

Application No.:	GZCR2108020935AT
Applicant:	Targus International LLC
Address of Applicant:	1211 North Miller Street Anaheim CA 92806 USA
Manufacturer:	Targus International LLC
Address of Manufacturer:	1211 North Miller Street Anaheim CA 92806 USA
Factory:	1. SUICHUAN CE LINK LIMITED
	2. CE LINK VIET NAM COMPANY LIMITED
Address of Factory:	1. SuiChuan county Industrial park east zone, JI'AN CITY Jiangxi, China
	 Lot CNSG04&CNSG06 Van Trung Industrial Zone, Viet Yen district, Bac Giang Province, Vietnam
Equipment Under Test (EUT	·):
EUT Name:	Wireless charger
Model No.:	APW105
Trade Mark:	Targus, Istore
FCC ID:	OXM000132
Standard(s) :	47 CFR Part 15, Subpart C
Date of Receipt:	2021-08-23
Date of Test:	2021-08-23 to 2021-08-30
Date of Issue:	2021-08-31
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

oke. Jun

Kobe Jian EMC Laboratory Manager



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Report No.: GZCR210802093501 Page: 2 of 30

	Revision Record					
Version Chapter Date Modifier Remark						
01		2021-08-31		Original		

Authorized for issue by		
	CJ Vu	
	Curry Wu/Project Engineer	
	Ridey Lin	
	Ricky Liu/Reviewer	





Report No.: GZCR210802093501 Page: 3 of 30

EMC-TRF-01 Rev 1.0

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		ANSI C63.10 (2013) 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 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Restricted band		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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EMC-TRF-01 Rev 1.0 Report No.: GZCR210802093501 Page: 4 of 30

3 Contents

 Test Summary Contents General Information 	on T. Support Units Uncertainty o Standards from Standard Conditions	3
3 Contents4 General Information	on T Support Units Uncertainty Standards from Standard Conditions	4 5 5 5 6 7 7
3 Contents4 General Information	on T Support Units Uncertainty Standards from Standard Conditions	4 5 5 5 6 7 7
4 General Information	DrT. Support Units Uncertainty Standards from Standard Conditions	5 5 5 5 6 6 7 7
	TSupport Units Uncertainty Standards from Standard Conditions	5 5 5 6 6 7 7
	Support Units Uncertainty Standards from Standard Conditions	5
4.1 Details of E.U	Support Units Uncertainty Standards from Standard Conditions	5
	n Standards from Standard Conditions	
	n Standards from Standard Conditions	
	n Standards from Standard Conditions	7 7
	from Standard Conditions	7
4.7 Abnormalities		
5 Equipment List		
6 Radio Spectrum T	echnical Requirement	10
-	irement	
	rement:	
•	latter Test Results	
-	lth	
	ration	
	Diagram	
	ent Procedure and Data	
	nissions at AC Mains Power Port (150kHz-30MHz)	
	ration	
	Diagram	
•	ent Procedure and Data	
7.3 Radiated Emis	ssions (30MHz-1GHz)	17
•	ration	17
	Diagram	
	ent Procedure and Data	
	ssions (9kHz-30MHz)	
	ration	
	Diagram	
	ent Procedure and Data	
	nd	
	ration Diagram	
•	ent Procedure and Data	
9 EUT Construction	al Details (EUT Photos)	30



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Report No.: GZCR210802093501 Page: 5 of 30

4 **General Information**

Details of E.U.T. 4.1

Power supply:	Input: DC 5V/2A,9V/2A,12V/1.5A
	Output: 10W Max
Cable(s):	Type C cable:94cm unshielded
Operation frequency:	126.4kHz to 129.2kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W, 7.5W and 10W, the worst case 10W is reported only.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	HUAWEI	HW-110600C00	REF. No.SEA05E04F
iPhone 8	Apple	A1863	REF. No.SEA16J00
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
E-loading	SGS	N/A	REF. No.SEA42A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	+/-3%
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	3.12dB
Radiated Emissions (30MHz-1GHz)	5.06dB (3m)
	4.46dB (10m)
Radiated Emissions (9kHz-30MHz)	± 4.5dB
Restricted band	± 3%

Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Report No.: GZCR210802093501 Page: 6 of 30

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 8215555 Fax: +86 20 82075059 No tests were sub-contracted.

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.



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Report No.: GZCR210802093501 Page: 7 of 30

- 4.6 Deviation from Standards None
- 4.7 Abnormalities from Standard Conditions None



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Report No.: GZCR210802093501 Page: 8 of 30

Equipment List

5

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal Analyzer (20Hz- 26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020-11-13	2021-11-12
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network	Rohde & Schwarz	ENV216	EMC0118	2021-01-08	2022-01-06
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)- Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

Radiated Emissions (9kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
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	2019-12-27	2021-12-26	
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	
EMI Test Receiver(1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25	



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Report No.: GZCR210802093501 Page: 9 of 30

Restricted band					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal Analyzer (20Hz- 26.5GHz)	Rohde & Schwarz	FISQ 26	EMC0069	2020-11-13	2021-11-12
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01

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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Report No.: GZCR210802093501 Page: 10 of 30

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

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 use an 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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. Refer to internal photos



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Report No.: GZCR210802093501 Page: 11 of 30

Radio Spectrum Matter Test Results 7

20dB Bandwidth 7.1

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

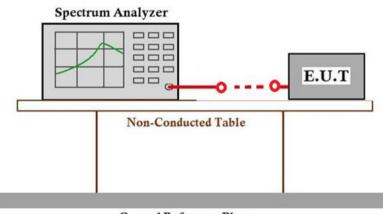
7.1.1 E.U.T. Operation

Operating Environment: Temperature: 23 °C Humidity: 53 % RH Atmospheric Pressure: 1010 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)
Final test	02	Charge mode_Keep the EUT charging(10W)

7.1.3 Test Setup Diagram



Ground Reference Plane

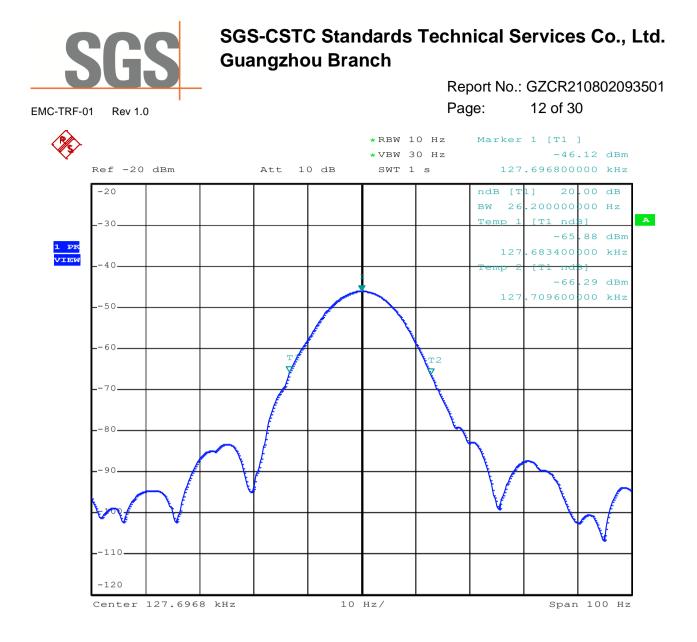
7.1.4 Measurement Procedure and Data

Test Frequency(kHz)	20dB bandwidth (Hz)	Limit (kHz)	Results
127.6968	26.2	N/A	Pass



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Report No.: GZCR210802093501 Page: 13 of 30

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

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

Test Method:

non-on-of-omiocion/MUI=)	Conducted limit(dBµV)				
requency 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			
creases with the logarithm of the f	requency.				

7.2.1 E.U.T. Operation

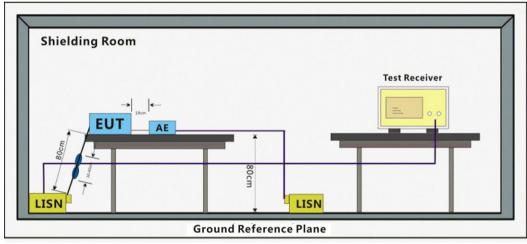
Operating Environment:

Temperature: 23 °C Humidity: Atmospheric Pressure: 1010 mbar 53 % RH

7.2.2 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)
Final test	02	Charge mode_Keep the EUT charging(10W)

7.2.3 Test Setup Diagram





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Report No.: GZCR210802093501

EMC-TRF-01 Rev 1.0 Page: 14 of 30

7.2.4 Measurement Procedure and Data

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: LISN=Read Level+ Cable Loss+ LISN Factor



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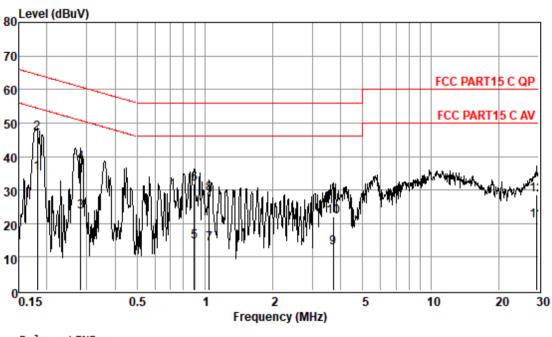
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Report No.: GZCR210802093501 Page: 15 of 30

Test Mode: 02; 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
0.18	25.50	0.06	9.62	35.18	54.42	-19.24	Average
0.18	37.44	0.06	9.62	47.12	64.42	-17.30	QP
0.28	13.72	0.06	9.62	23.40	50.76	-27.36	Average
0.28	28.38	0.06	9.62	38.06	60.76	-22.70	QP
0.90	5.03	0.07	9.62	14.72	46.00	-31.28	Average
0.90	22.21	0.07	9.62	31.90	56.00	-24.10	QP
1.04	4.33	0.07	9.62	14.02	46.00	-31.98	Average
1.04	19.08	0.07	9.62	28.77	56.00	-27.23	QP
3.70	2.99	0.16	9.62	12.77	46.00	-33.23	Average
3.70	12.37	0.16	9.62	22.15	56.00	-33.85	QP
29.37	10.32	0.44	9.98	20.74	50.00	-29.26	Average
29.37	18.11	0.44	9.98	28.53	60.00	-31.47	QP -



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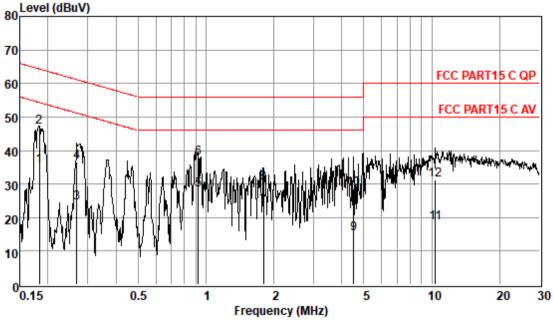
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Report No.: GZCR210802093501 Page: 16 of 30

Test Mode: 02; 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	25.91	0.06	9.55	35.52	54.33	-18.81	Average
0.18	37.38	0.06	9.55	46.99	64.33	-17.34	QP
0.27	14.66	0.06	9.55	24.27	51.16	-26.89	Average
0.27	26.94	0.06	9.55	36.55	61.16	-24.61	QP
0.92	18.50	0.07	9.55	28.12	46.00	-17.88	Average
0.92	28.17	0.07	9.55	37.79	56.00	-18.21	QP
1.80	13.70	0.11	9.54	23.35	46.00	-22.65	Average
1.80	20.82	0.11	9.54	30.47	56.00	-25.53	QP
4.50	5.36	0.17	9.56	15.09	46.00	-30.91	Average
4.50	18.84	0.17	9.56	28.57	56.00	-27.43	QP
10.34	8.58	0.24	9.59	18.41	50.00	-31.59	Average
10.34	21.46	0.24	9.59	31.29	60.00	-28.71	QP



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Report No.: GZCR210802093501 Page: 17 of 30

7.3 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
Measurement Distance:	10m
Limit [.]	

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR guasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. 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.

7.3.1 E.U.T. Operation

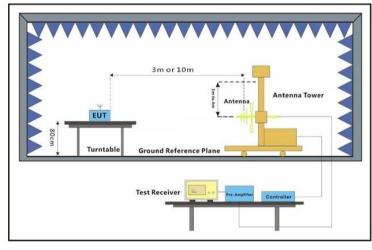
Operating Environment:

Temperature:	23	°C	Humidity:	53	% RH	Atmospheric Pressure: 1010 mb	ar
3.2 Test Mode Desc	riptio	n					

7.3.

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)
Final test	02	Charge mode_Keep the EUT charging(10W)

7.3.3 Test Setup Diagram





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Report No.: GZCR210802093501

EMC-TRF-01 Rev 1.0 Page: 18 of 30

7.3.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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



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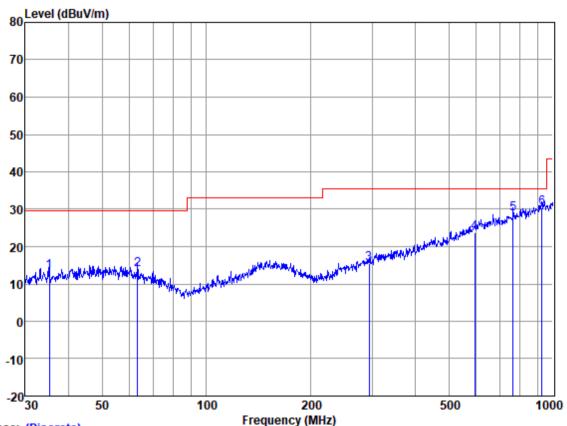
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Report No.: GZCR210802093501 Page: 19 of 30

Test Mode: 02; Polarity: Horizontal



Trace: (Discrete)

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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	35.25	26.55	12.93	1.07	27.18	13.37	29.50	-16.13	HORIZONTAL	QP
2	63.31	26.61	12.97	1.31	27.15	13.74	29.50	-15.76	HORIZONTAL	QP
3	294.11	25.27	13.48	3.15	26.55	15.35	35.60	-20.25	HORIZONTAL	QP
4	593.05	27.35	19.60	5.10	28.20	23.85	35.60	-11.75	HORIZONTAL	QP
5	766.06	28.61	22.20	6.05	28.06	28.80	35.60	-6.80	HORIZONTAL	QP
6	929.01	27.29	23.80	7.06	27.80	30.35	35.60	-5.25	HORIZONTAL	QP



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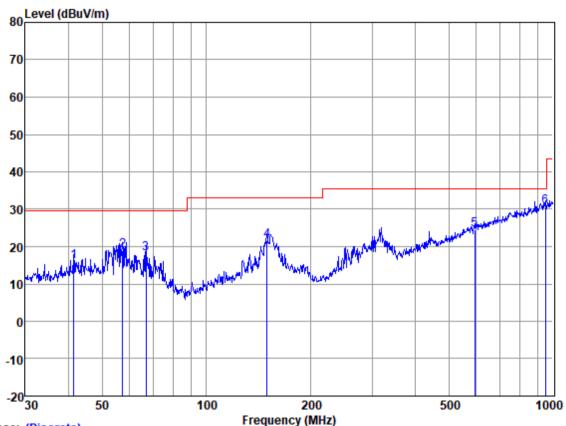
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Report No.: GZCR210802093501 Page: 20 of 30

Test Mode: 02; Polarity: Vertical



Trace: (Discrete)

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

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	41.42	28.43	13.65	1.11	27.17	16.02	29.50	-13.48	VERTICAL	QP
2	57.19	31.24	13.64	1.22	27.16	18.94	29.50	-10.56	VERTICAL	QP
3	66.97	31.54	12.40	1.37	27.14	18.17	29.50	-11.33	VERTICAL	QP
4	149.49	32.54	13.78	2.22	26.84	21.70	33.10	-11.40	VERTICAL	QP
5	593.05	28.01	19.60	5.10	28.20	24.51	35.60	-11.09	VERTICAL	QP
6	948.76	27.37	23.90	7.12	27.74	30.65	35.60	-4.95	VERTICAL	QP



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EMC-TRF-01 Rev 1.0 Report No.: GZCR210802093501 Page: 21 of 30

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance.

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L10: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
41.420	16.02	6.32	21.08	26.48	40.00	-13.52	V
57.190	18.94	8.85	29.50	29.40	40.00	-10.60	V
66.970	18.17	8.10	27.00	28.63	40.00	-11.37	V
149.490	21.70	12.16	40.54	32.16	43.50	-11.34	V
593.050	24.51	16.81	56.02	34.97	46.00	-11.03	V
948.760	30.65	34.08	113.60	41.11	46.00	-4.89	V
35.250	13.37	4.66	15.54	23.83	40.00	-16.17	Н
63.310	13.74	4.86	16.21	24.20	40.00	-15.80	Н
294.110	15.35	5.85	19.52	25.81	46.00	-20.19	Н
593.050	23.85	15.58	51.93	34.31	46.00	-11.69	Н
766.060	28.80	27.54	91.81	39.26	46.00	-6.74	Н
929.010	30.35	32.92	109.74	40.81	46.00	-5.19	Н



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Report No.: GZCR210802093501 Page: 22 of 30

7.4 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

Measurement 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):

 $FS_{(10m)} = FS_{(30/300m)} + 40log\{d_{(near field)}/d_{(10m)}\} + 20log\{d_{(30/300m)}/d_{(near field)}\}$

(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):

$$FS_{(10m)} = FS_{(30/300m)} + 20log\{d_{(30/300m)}/d_{(10m)}\}$$
(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):

 $FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\}$ (4)

Remark:

 $d_{\text{near field}} = 47.77 \ / \ f_{\text{MHz}}$ where f_{MHz} is the frequency of the emission being measured in MHz.

7.4.1 E.U.T. Operation

Operating Enviro	nment	t:						
Temperature:	23	°C	Humidity:	53	% RH	Atmospheric Pressure:	1010	mbar





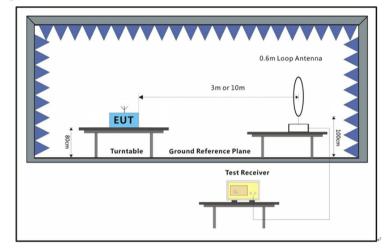
Report No.: GZCR210802093501 Page: 23 of 30

EMC-TRF-01 Rev 1.0

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)
Final test	02	Charge mode_Keep the EUT charging(10W)

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.



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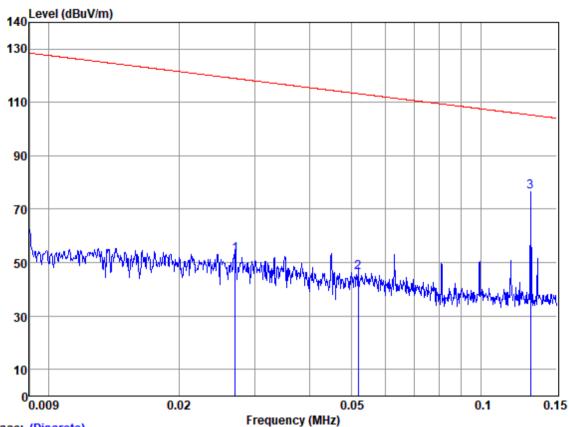
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Report No.: GZCR210802093501 Page: 24 of 30

Test Mode: 02; Polarity: Horizontal



Trace: (Discrete)

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

	Freq						l Limit Line			Remark
1							dBuV/m 118.99		HORIZONTAL	Average
2	0.05	63.70	11.86	0.05	29.30	46.31	113.30	-66.99	HORIZONTAL HORIZONTAL	Average
-	0.10		10.01	0.05	20110	/0151	100.00	20170	nonizzoniniz	



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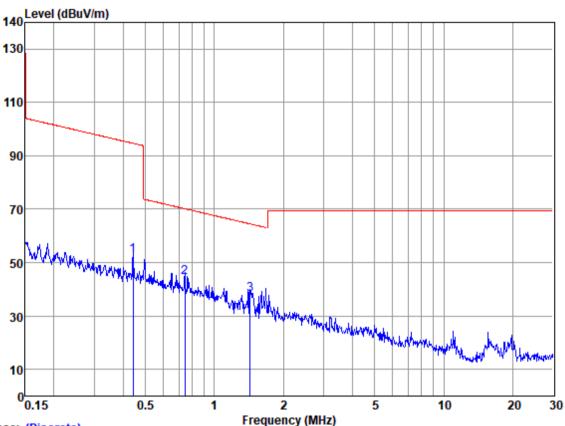
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Report No.: GZCR210802093501 Page: 25 of 30

Test mode: 02;



Trace: (Discrete)

Site	:
Job	
Model	:
Power	:
Test Mode	:

SGS

	Freq					Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.44	71.28	10.71	0.07	29.42	52.64	94.69	-42.05	HORIZONTAL	Average
2	0.74	63.08	10.51	0.12	29.41	44.30	70.18	-25.88	HORIZONTAL	QP
3	1.43	56.45	10.72	0.16	29.39	37.94	64.48	-26.54	HORIZONTAL	QP



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Report No.: GZCR210802093501 Page: 26 of 30

7.5 Restricted band

Test Requirement	47 CFR Part 15, Subpart C 15.205
Test Method:	ANSI C63.10 (2013) Section 6.10.5
Limit:	The fundamental wave can not fall in the restricted band 90KHz-110KHz

7.5.1 E.U.T. Operation

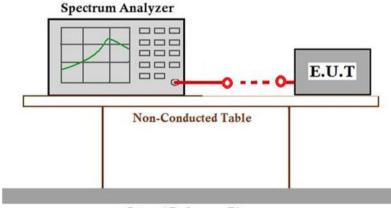
Operating Environment:

Temperature: 23 Humidity: 53 % RH Atmospheric Pressure: 1010 mbar °C

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)
Final test	02	Charge mode_Keep the EUT charging(10W)

7.5.3 Test Setup Diagram



Ground Reference Plane



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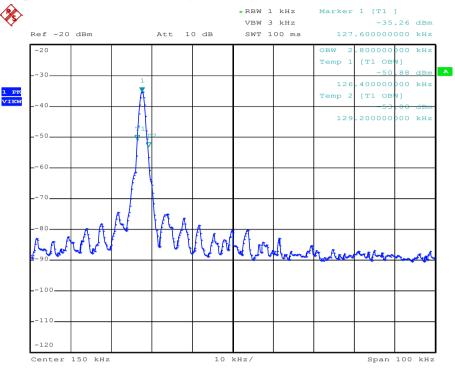
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Report No.: GZCR210802093501 Page: 27 of 30

7.5.4 Measurement Procedure and Data

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





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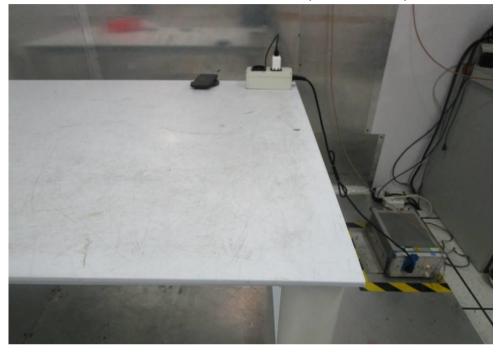
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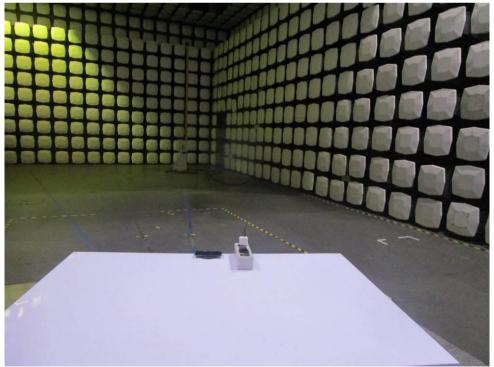
Report No.: GZCR210802093501 Page: 28 of 30

8 Test Setup Photo

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



Radiated Emissions (30MHz-1GHz)





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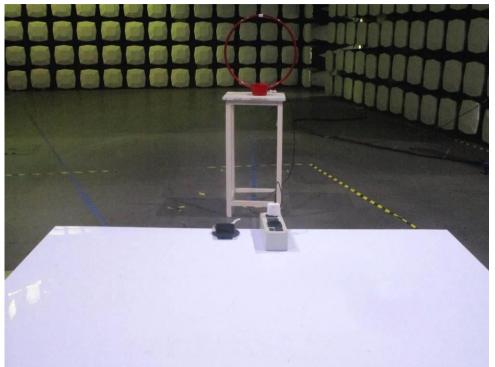
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EMC-TRF-01 Rev 1.0 Report No.: GZCR210802093501 Page: 29 of 30

Radiated Emissions (9kHz-30MHz)





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Report No.: GZCR210802093501 Page: 30 of 30

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for GZCR2108020935AT

- End of the Report -



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