

Report No.: GZCR210902113701 Page: 1 of 29 FCC ID: Y22-S7FEZ

TEST REPORT

Test Result:	Pass*
Date of Issue:	2021-09-27
Date of Test:	2021-09-23 to 2021-09-26
Date of Receipt:	2021-09-23
Standard(s) :	47 CFR Part 15, Subpart C
Trade Mark:	Skullcandy
Model No.:	S7FEZ
EUT Name:	FUELBASE 2 WIRELESS CHARGE PAD
Equipment Under Test (EUT):
Address of Manufacturer:	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Manufacturer:	SKULLCANDY, INC.
Address of Applicant:	6301 N Landmark Dr Park City UT 84098, Utah United States of America
Applicant:	SKULLCANDY, INC.
Application No.:	GZCR2109021137AT

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

oke. Jun

Kobe Jian EMC Laboratory Manager



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	Revision Record					
Version Chapter Date Modifier Remark						
01		2021-09-27		Original		

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



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2 Test Summary

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

Radio Spectrum Matter Part						
ltem	Standard	Method	Requirement	Result		
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	Pass		
Restricted band		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass		
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
Radiated Emissions (9kHz-30MHz)		ANSI C63.10 (2013) Section 6.4	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Emissions (30MHz-1GHz)		ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	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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8	Test Setup Photo			
9	EUT Constructional Details (EUT Photos)			



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4 **General Information**

Details of E.U.T. 4.1

Power supply:	INPUT:QC/PD,5V/3A 9V/2.22A 12V/1.67A
	OUTPUT:5W/7.5W/10W /15W
Cable(s):	USB cable:71cm unshielded
Operation Frequency:	115.400KHz-147.400KHz
Modulation Type:	Load modulation
Antenna Type:	Loop antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
E-loading	Client supply	Huier wireless	N/A
Mobile Phone	SAMSUNG	SM-G9810	RFCN309Q9QF
Provided by applicant	APPLE	LS-QW20-A	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	+/-3%
Restricted band	± 3%
Conducted Emissions at AC Mains Power Port (150kHz- 30MHz)	3.12dB
Radiated Emissions (9kHz-30MHz)	± 4.5dB
Dedicted Emissions (2014) = 1015	5.06dB (3m)
Radiated Emissions (30MHz-1GHz)	4.46dB (10m)

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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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.

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laborator

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



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Equipment List 5

20dB Bandwidth Equipment Manufacturer Model No **Inventory No** Cal Due Date Cal Date Aailent **EXA Signal** N9010A EMC2138 2021-09-15 2022-09-14 Analzer(10Hz-44GHz) Technologies ΗP 2020-04-15 2022-04-14 6dB Attenuator 8491A EMC2062 Test Software JS1120-3 HangTianXing V2.6 GZE100-69 N/A N/A SGS-EMC **MI CABLE** 0.8M EMC2136 2019-11-02 2021-11-01

Restricted band					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
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	2021-09-24	2022-09-23	
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 (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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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			

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

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, 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.

6.1.2 Conclusion

EUT Antenna:

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



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Radio Spectrum Matter Test Results 7

7.1 20dB Bandwidth

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 Enviro	onment:	
Temperature:	25.4 °C	Humid

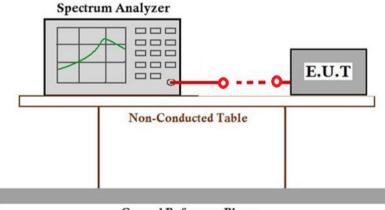
dity: 56.3 % RH

Atmospheric Pressure: 1008 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



Ground Reference Plane



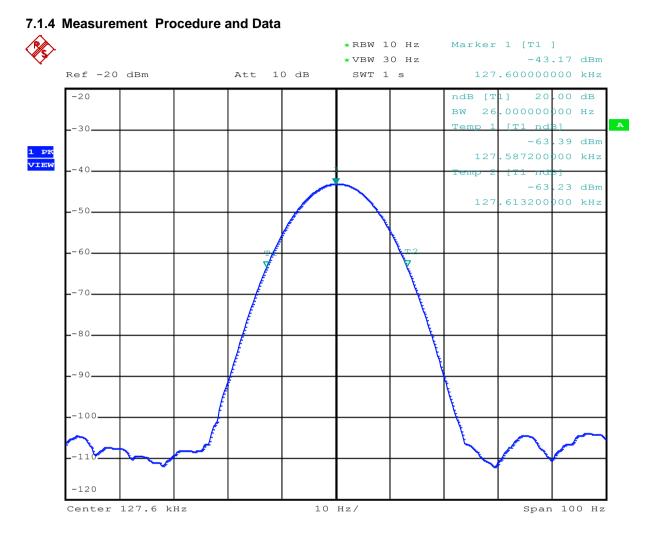
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7.2 Restricted band

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

7.2.1 E.U.T. Operation

Operating Environment:

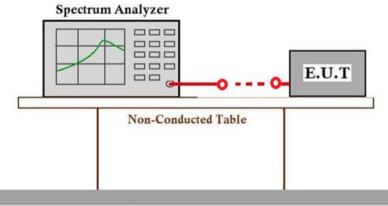
Temperature: 25.3 °C Humidity: 56.6 % RH

Atmospheric Pressure: 1008 mbar

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)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)

7.2.3 Test Setup Diagram



Ground Reference Plane

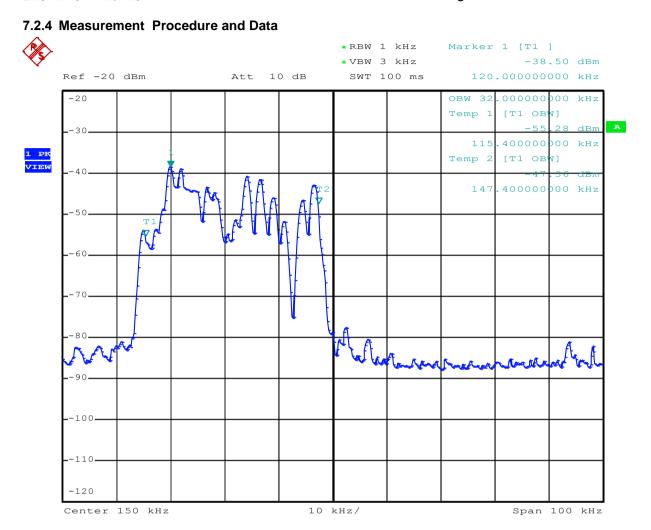


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According the test data above, the fundamental wave is not fall in the restricted band 90kHz-110kHz, the field strength also meet the 15.209 requirement, so this test is Pass.



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

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

	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.					
Detector: Peak for pre-scan (9kHz res	solution bandwidth) 0.15M to 30MHz				

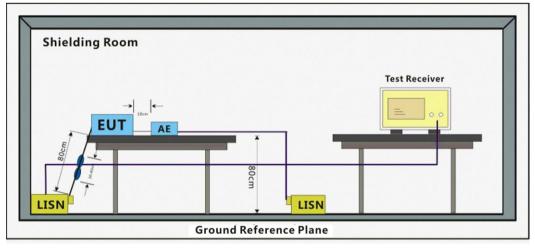
7.3.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	26.4 °C	Humidity:	57.8 % RH	Atmospheric Pressure:	1010	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)

7.3.3 Test Setup Diagram





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



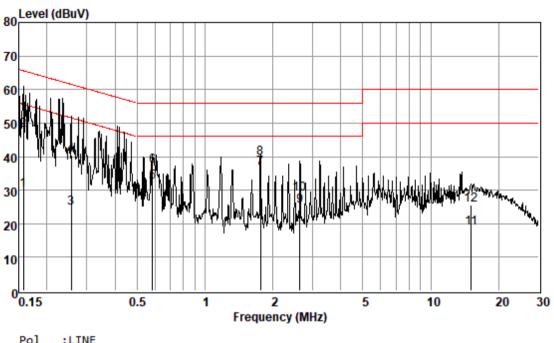
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Test Mode: 03; Line: Live line



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
0.16	20.31	0.06	9.62	29.99	55.60	-25.61	Average
0.16	38.08	0.06	9.62	47.76	65.60	-17.84	QP
0.26	14.98	0.06	9.62	24.66	51.56	-26.90	Average
0.26	30.67	0.06	9.62	40.35	61.56	-21.21	QP
0.59	22.70	0.07	9.63	32.40	46.00	-13.60	Average
0.59	27.34	0.07	9.63	37.04	56.00	-18.96	QP
1.76	26.96	0.11	9.62	36.69	46.00	-9.31	Average
1.76	29.81	0.11	9.62	39.54	56.00	-16.46	QP
2.64	15.62	0.14	9.62	25.38	46.00	-20.62	Average
2.64	18.98	0.14	9.62	28.74	56.00	-27.26	QP
15.07	8.58	0.31	9.74	18.63	50.00	-31.37	Average
15.07	15.59	0.31	9.74	25.64	60.00	-34.36	QP



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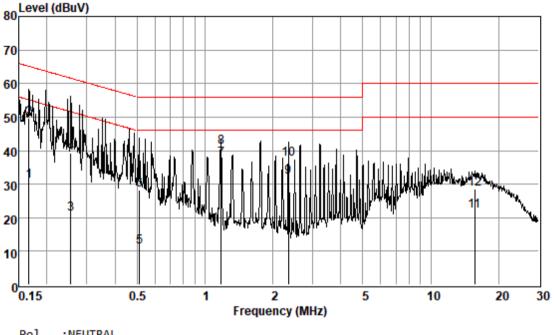
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Test Mode: 03; Line: Neutral Line



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
0.17	21.17	0.06	9.55	30.78	55.12	-24.34	Average
0.17	40.12	0.06	9.55	49.73	65.12	-15.39	QP
0.25	11.45	0.06	9.55	21.06	51.60	-30.54	Average
0.25	29.58	0.06	9.55	39.19	61.60	-22.41	QP
0.51	1.57	0.07	9.55	11.19	46.00	-34.81	Average
0.51	18.51	0.07	9.55	28.13	56.00	-27.87	QP
1.18	27.72	0.08	9.55	37.35	46.00	-8.65	Average
1.18	31.28	0.08	9.55	40.91	56.00	-15.09	QP
2.35	22.39	0.13	9.54	32.06	46.00	-13.94	Average
2.35	27.92	0.13	9.54	37.59	56.00	-18.41	QP
15.63	11.97	0.32	9.64	21.93	50.00	-28.07	Average
15.63	18.72	0.32	9.64	28.68	60.00	-31.32	QP



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C 15.205 & 15.209

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7.4 Radiated Emissions (9kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.20
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):

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

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

Remark:

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

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7.4.1 E.U.T. Operation

Operating Environment: Temperature: 26.4 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1008 mbar



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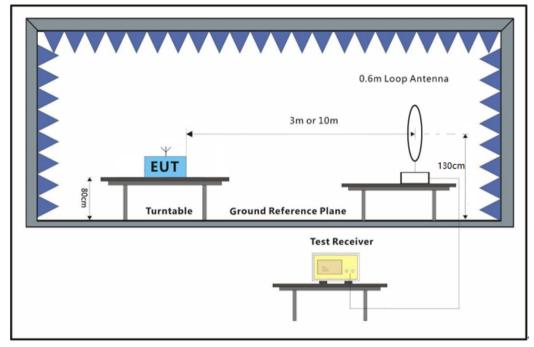


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7.4.2 Test Mode Description

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



7.4.4 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1.3m 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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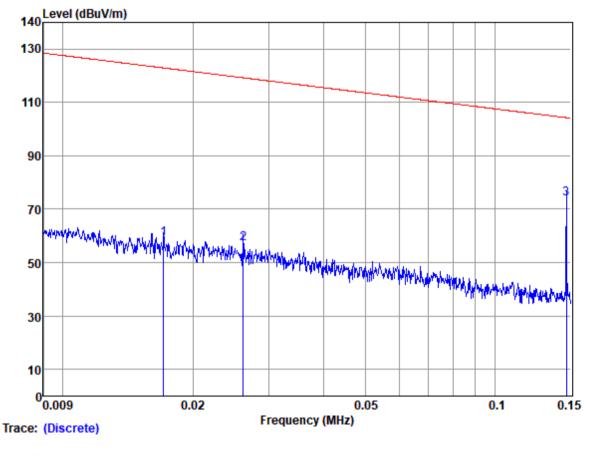
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Only the worst position of coaxial was shown in the report.

Test Mode: 03



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

	Freq					Measured Level				Remark
1						dBuV/m 59.09			HORIZONTAL	
2 3	0.03	72.70	12.80	0.05	28.57	56.98	119.26	-62.28	HORIZONTAL HORIZONTAL	Average



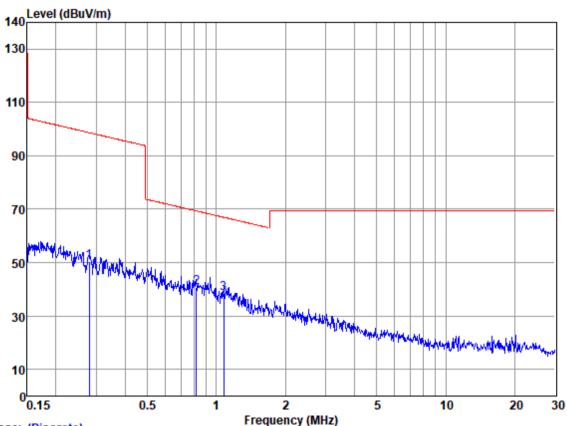
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Test Mode: 03



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	0.28	69.16	10.77	0.05	29.44	50.54	98.70	-48.16	HORIZONTAL	Average
2	0.82	59.48	10.46	0.12	29.41	40.65	69.36	-28.71	HORIZONTAL	QP
3	1.08	57.21	10.43	0.13	29.41	38.36	66.96	-28.60	HORIZONTAL	QP



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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement	47 CFR
Test Method:	ANSI C
Limit:	

Part 15, Subpart C 15.205 & 15.209 63.10 (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 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.

7.5.1 E.U.T. Operation

Operating Environment: Temperature: 25.8 °C

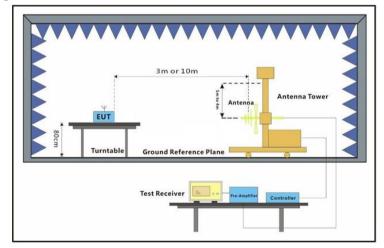
Humidity: 57.9 % RH

Atmospheric Pressure: 1008 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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7.5.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semianechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation

b. The EUT was set 3 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



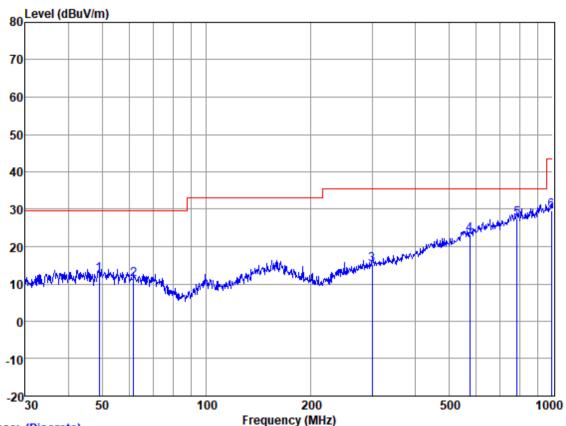
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Test Mode: 03; Polarity: Horizontal



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	49.01	24.54	13.95	1.14	27.17	12.46	29.50	-17.04	HORIZONTAL	QP
2	61.56	24.00	13.15	1.28	27.15	11.28	29.50	-18.22	HORIZONTAL	QP
3	300.37	25.02	13.60	3.16	26.56	15.22	35.60	-20.38	HORIZONTAL	QP
4	574.63	27.23	19.05	4.98	28.17	23.09	35.60	-12.51	HORIZONTAL	QP
5	787.85	27.00	22.45	6.11	28.04	27.52	35.60	-8.08	HORIZONTAL	QP
6	989.54	25.69	24.20	7.37	27.67	29.59	43.50	-13.91	HORIZONTAL	QP



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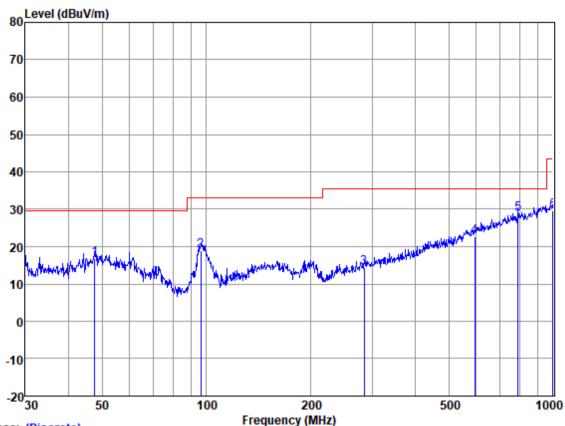
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Test Mode: 03; Polarity: Vertical



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	47.66	28.83	13.99	1.13	27.17	16.78	29.50	-12.72	VERTICAL	QP
2	96.44	35.74	8.63	1.70	27.08	18.99	33.10	-14.11	VERTICAL	QP
3	284.98	24.63	13.30	3.11	26.56	14.48	35.60	-21.12	VERTICAL	QP
4	593.05	26.19	19.60	5.10	28.20	22.69	35.60	-12.91	VERTICAL	QP
5	793.40	28.04	22.53	6.14	28.04	28.67	35.60	-6.93	VERTICAL	QP
6(SY	1000.00	25.45	24.30	7.43	27.66	29.52	43.50	-13.98	VERTICAL	QP



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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
49.010	12.46	4.20	13.99	22.92	40.00	-17.08	Н
61.560	11.28	3.66	12.21	21.74	40.00	-18.26	Н
300.370	15.22	5.77	19.23	25.68	46.00	-20.32	Н
574.630	23.09	14.27	47.57	33.55	46.00	-12.45	Н
787.850	27.52	23.77	79.23	37.98	46.00	-8.02	Н
989.540	29.59	30.16	100.55	40.05	54.00	-13.95	Н
47.660	16.78	6.90	23.01	27.24	40.00	-12.76	V
96.440	18.99	8.90	29.67	29.45	43.50	-14.05	V
284.980	14.48	5.30	17.66	24.94	46.00	-21.06	V
593.050	22.69	13.63	45.43	33.15	46.00	-12.85	V
793.400	28.67	27.13	90.44	39.13	46.00	-6.87	V
1000.000	29.52	29.92	99.74	39.98	54.00	-14.02	V



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for GZCR2109021137AT.

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for GZCR2109021137AT.

- End of the Report -



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