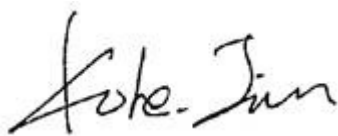


TEST REPORT

Application No.: GZCR2104020102AT
Applicant: The House of Marley.LLC
Address of Applicant: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States
Manufacturer: The House of Marley.LLC
Address of Manufacturer: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States
Factory: 1. Dongguan Kailai Electronic Co., Ltd.
 2. YING TONG (VIETNAM) ELECTRONIC TECHNOLOGY COMPANY LIMITED
Address of Factory: 1. Building 2, No.6, Baisha Road, Changping, Dongguan City, Guangdong Province, China
 2. Plot No. CN02-1-2, Lot No. CN02, Binh Xuyen II Industrial Park, Ba Hien Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam
Equipment Under Test (EUT):
EUT Name: Rebel
Model No.: EM-JE121
Trade Mark: MARLEY
Standard(s) : 47 CFR Part 15, Subpart C
 47 CFR Part 1.1310
 47 CFR Part 1.1307
 KDB 680106 D01
Date of Receipt: 2021-04-12
Date of Test: 2021-04-19 to 2021-05-12
Date of Issue: 2021-05-14

Test Result:	Pass*
---------------------	--------------

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



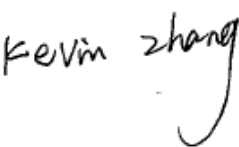
Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-14		Original

Authorized for issue by				
Tested By				
		Kevin Zhang/Project Engineer		
Reviewed By				
		Ricky Liu/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
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	47 CFR Part 15, Subpart C 47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Restricted band	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C	ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.215	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
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
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01	CFR 47 Part 1.1310	Pass

Note:

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

N/A: Not applicable.

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 5 V for charging
Cable(s):	DC output ports Type C changing ports with unshielded cables (0.4 m)
Test Voltage:	DC 5 V powered by Wireless Charging Pad refer to section 4.2
Operation Frequency:	114.760 - 145.765 kHz
Modulation Type:	Load modulation
Antenna Type:	Loop antenna
Software Version:	SV01
Hardware Version:	HV01
Sample NO.:	GZ_SP_20210418060
Power Setting:	Default can not changed by user

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	YUEWEI	YW-2440 (Input: AC220-230V, 50Hz; Output: DC5V, Max. 4A)	CE02
Wireless Charging Pad	SAMSUNG	EP-1100	RF7M506VG3ZCIS

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	3.12dB
Restricted band	± 3%
20dB Bandwidth	+/-3%
Radiated Emissions (9kHz-30MHz)	± 4.5dB
Radiated Emissions (30MHz-1GHz)	5.06dB (3m) 4.46dB (10m)
RF Exposure Evaluation	MF: U=0.13dB, EF: U=0.4dB
Remark: The U_{lab} (lab Uncertainty) is less than U_{CISPR} (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.	

4.4 Test Location

All tests were performed at:

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

Tel: +86 20 82155555 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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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
EMI Test Receiver(9kHz-2.75GHz)	Rohde & Schwarz	ESCS30	EMC0506	2020-11-13	2021-11-12
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

Restricted band					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
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

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2020-09-17	2021-09-16
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

Radiated Emissions (9kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2020-05-26	2021-05-25
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



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable	HangTianXing	N/A	EMC0542	2019-06-28	2021-06-27
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	2020-05-26	2021-05-25
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

RF Exposure Evaluation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Electric and Magnetic Field Analyzer	Narada	NBM-550 EHP-50F	EMC2143	2020-01-07	2022-01-06

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2020-07-09	2021-07-08
DMM	Fluke	73	EMC0007	2020-07-09	2021-07-08



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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.

Please refer to internal photos.

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

Test Method: ANSI C63.10 (2013) Section 6.2

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.

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

Humidity: 52.6 % RH

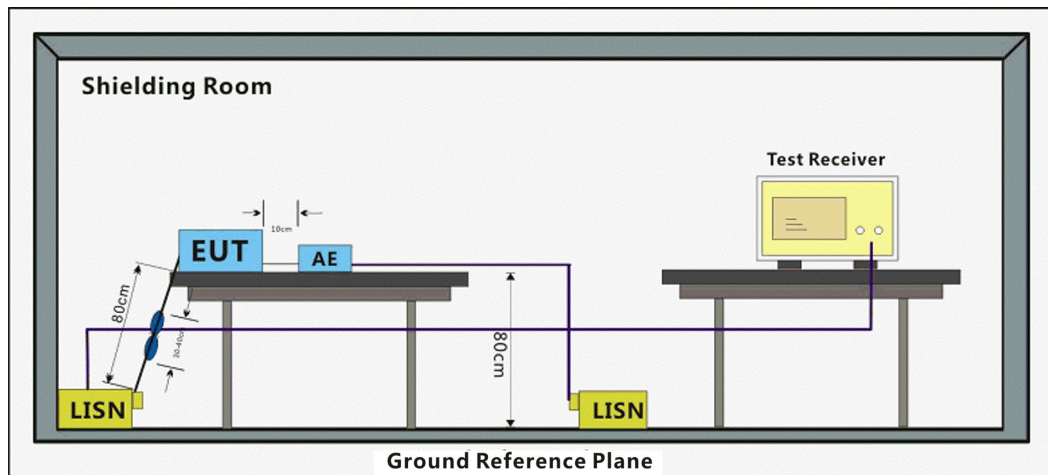
Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	

Final test	04	Charging by wireless pad
------------	----	--------------------------

7.1.3 Test Setup Diagram



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 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.

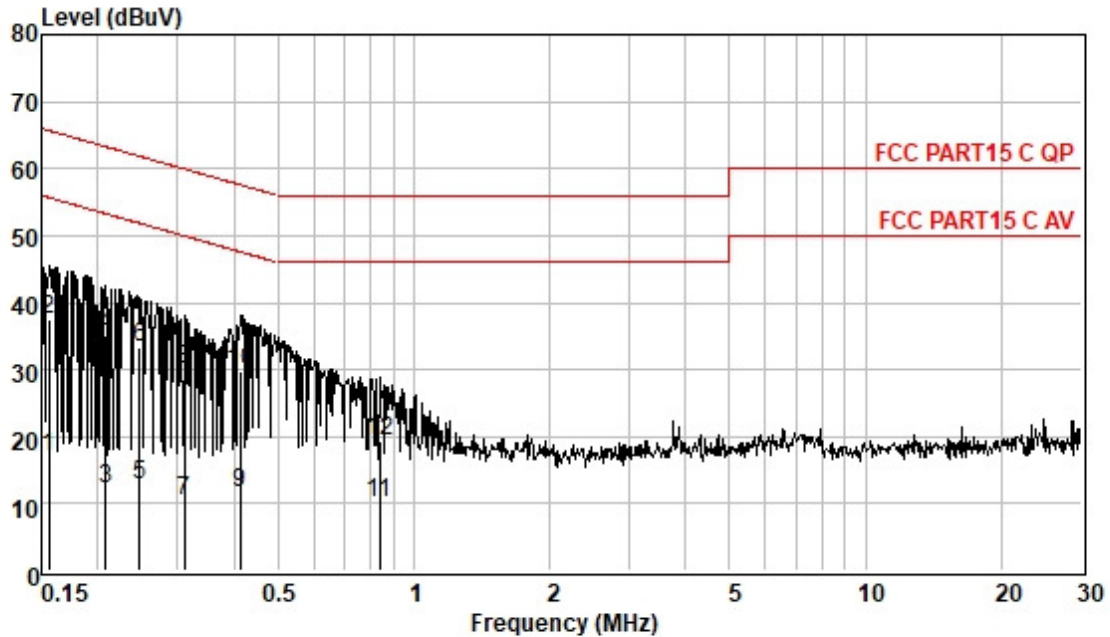
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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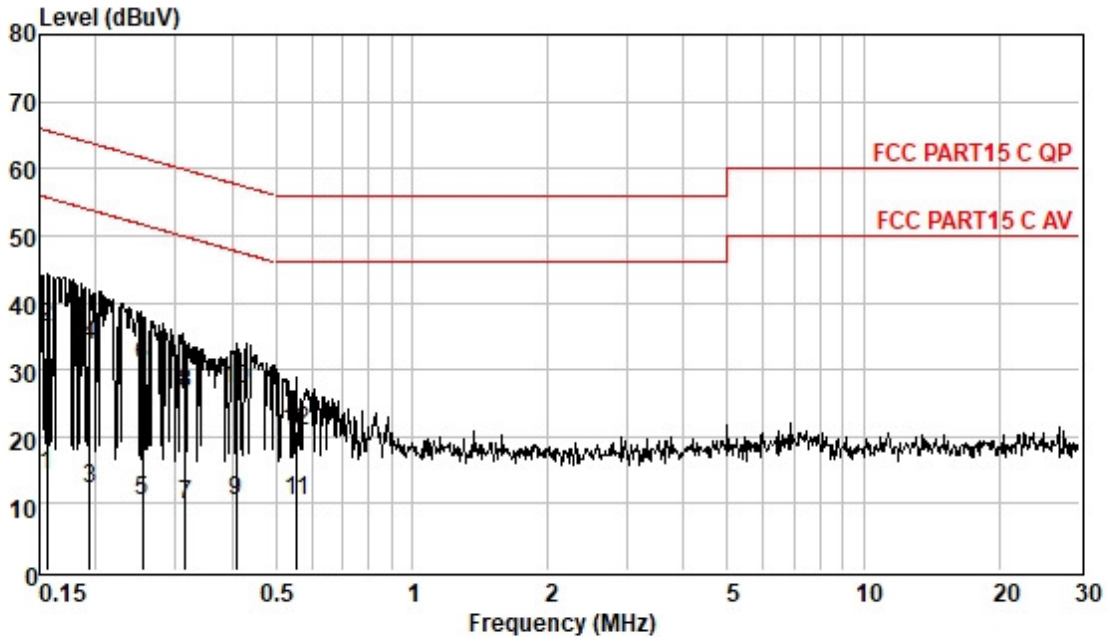
Test Mode: 04; Line: Live line



Pol : LINE
Mode :
Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	7.24	0.06	9.62	16.92	55.69	-38.77	Average
0.16	27.69	0.06	9.62	37.37	65.69	-28.32	QP
0.21	2.37	0.06	9.63	12.06	53.27	-41.21	Average
0.21	25.35	0.06	9.63	35.04	63.27	-28.23	QP
0.25	3.13	0.06	9.62	12.81	51.86	-39.05	Average
0.25	23.66	0.06	9.62	33.34	61.86	-28.52	QP
0.31	0.74	0.06	9.62	10.42	49.97	-39.55	Average
0.31	20.32	0.06	9.62	30.00	59.97	-29.97	QP
0.41	1.95	0.06	9.62	11.63	47.59	-35.96	Average
0.41	20.19	0.06	9.62	29.87	57.59	-27.72	QP
0.84	0.42	0.07	9.63	10.12	46.00	-35.88	Average
0.84	9.70	0.07	9.63	19.40	56.00	-36.60	QP

Test Mode: 04; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	4.73	0.06	9.55	14.34	55.69	-41.35	Average
0.16	26.66	0.06	9.55	36.27	65.69	-29.42	QP
0.19	2.51	0.06	9.54	12.11	53.89	-41.78	Average
0.19	24.07	0.06	9.54	33.67	63.89	-30.22	QP
0.25	0.89	0.06	9.55	10.50	51.64	-41.14	Average
0.25	20.93	0.06	9.55	30.54	61.64	-31.10	QP
0.31	0.10	0.06	9.54	9.70	49.84	-40.14	Average
0.31	16.91	0.06	9.54	26.51	59.84	-33.33	QP
0.41	0.72	0.06	9.56	10.34	47.68	-37.34	Average
0.41	17.47	0.06	9.56	27.09	57.68	-30.59	QP
0.56	0.79	0.07	9.54	10.40	46.00	-35.60	Average
0.56	11.29	0.07	9.54	20.90	56.00	-35.10	QP

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

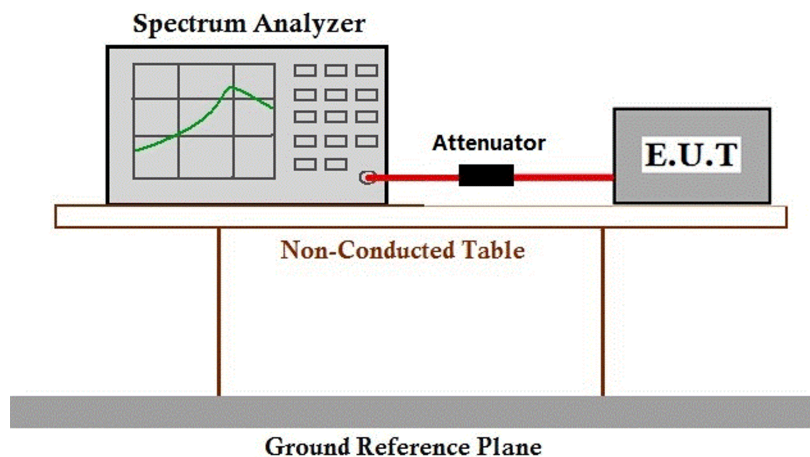
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.1 °C Humidity: 60.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

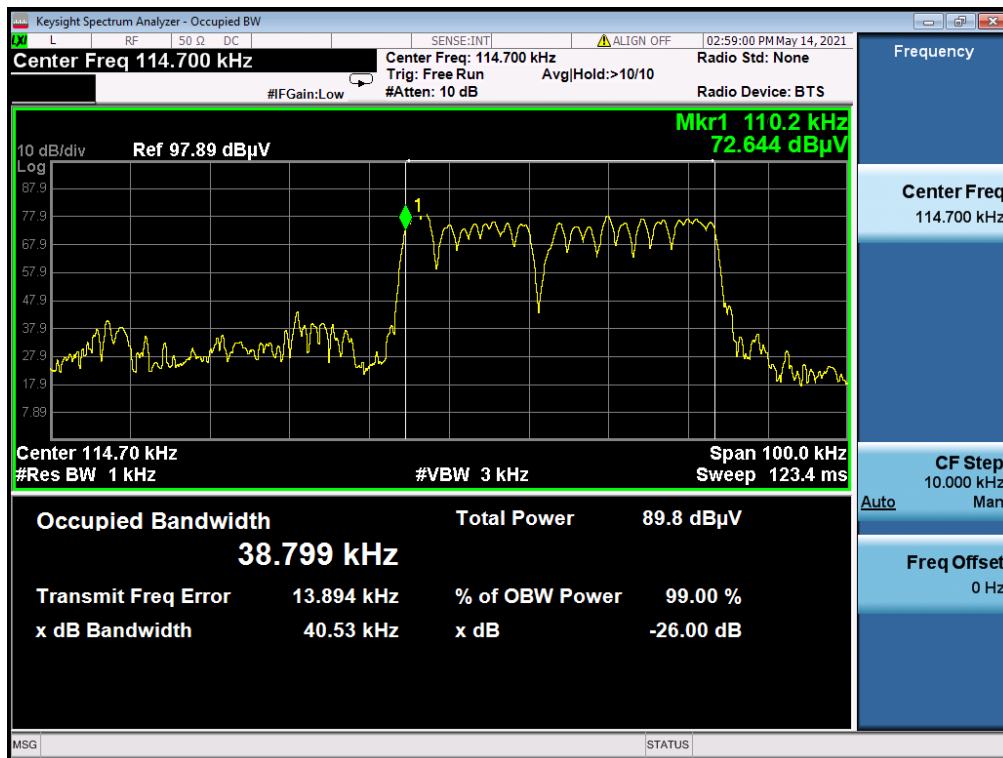
Pre-scan / Final test	Mode Code	Description
Final test	04	Charging by wireless pad

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

According the test data below, 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 7.4.



Cable Loss= 0.9dB

7.3 20dB Bandwidth

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

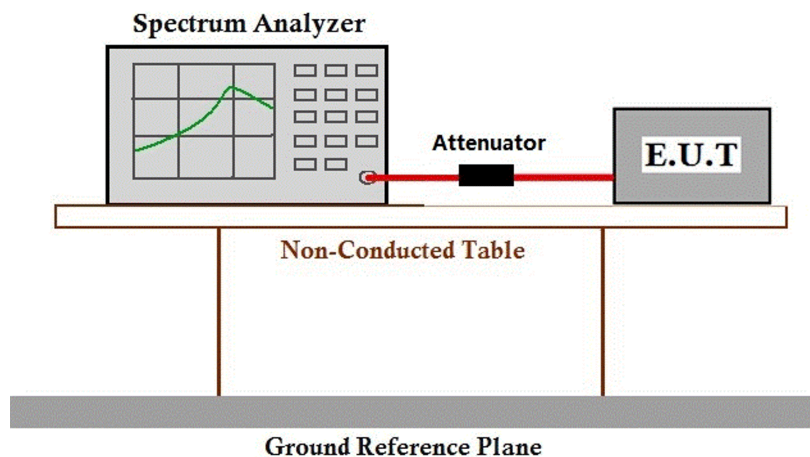
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 26.1 °C Humidity: 60.5 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

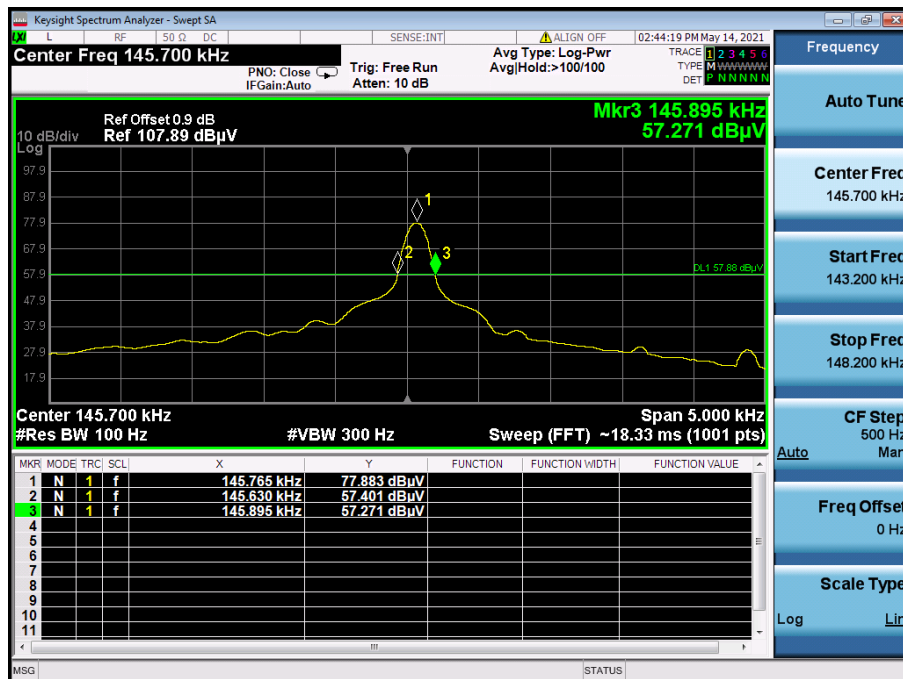
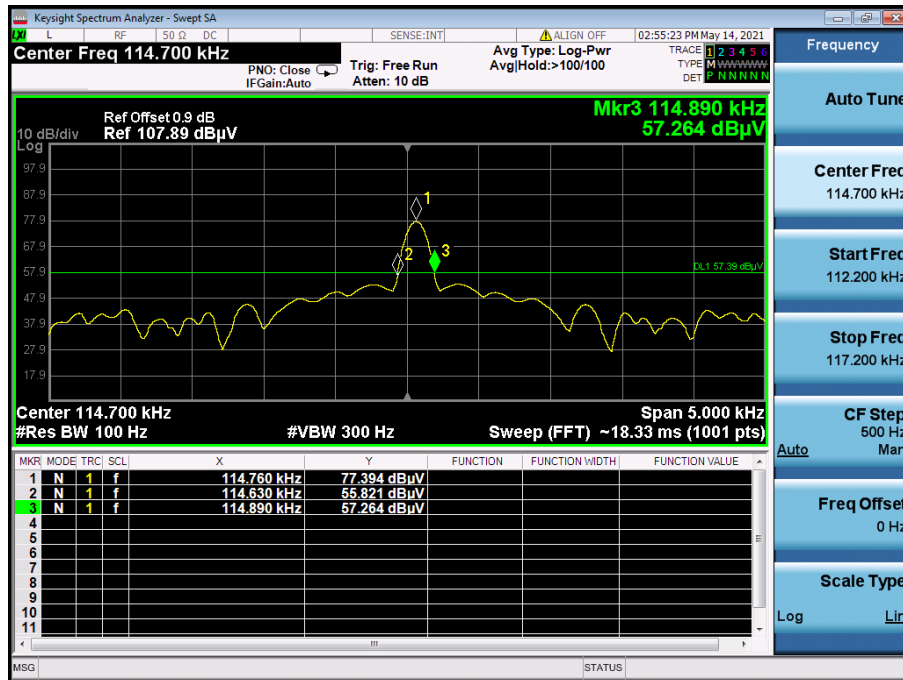
Pre-scan / Mode	Description
Final test Code	
Final test 04	Charging by wireless pad

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Test Frequency (kHz)	20 dB Bandwidth (kHz)	Limit (kHz)	Results
114.760 (Min)	0.260	---	Pass
145.765 (Max)	0.265	---	Pass



Cable Loss= 0.9dB



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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

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):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(\text{near field})}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(\text{near field})}\} \quad (2)$$

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):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

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):

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

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: 23.3 °C

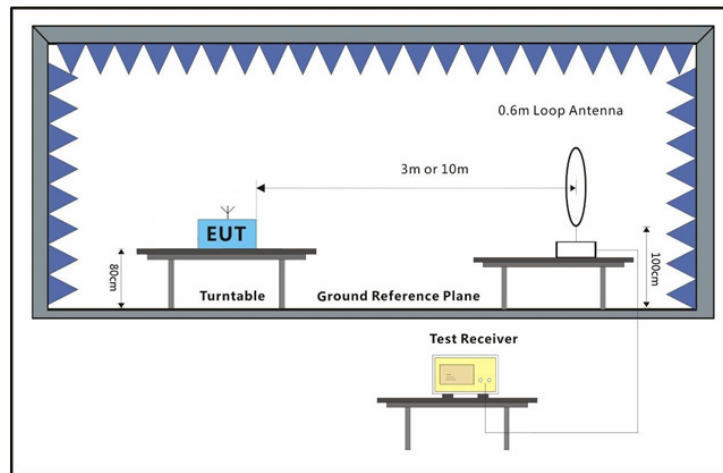
Humidity: 55.6 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charging by wireless pad

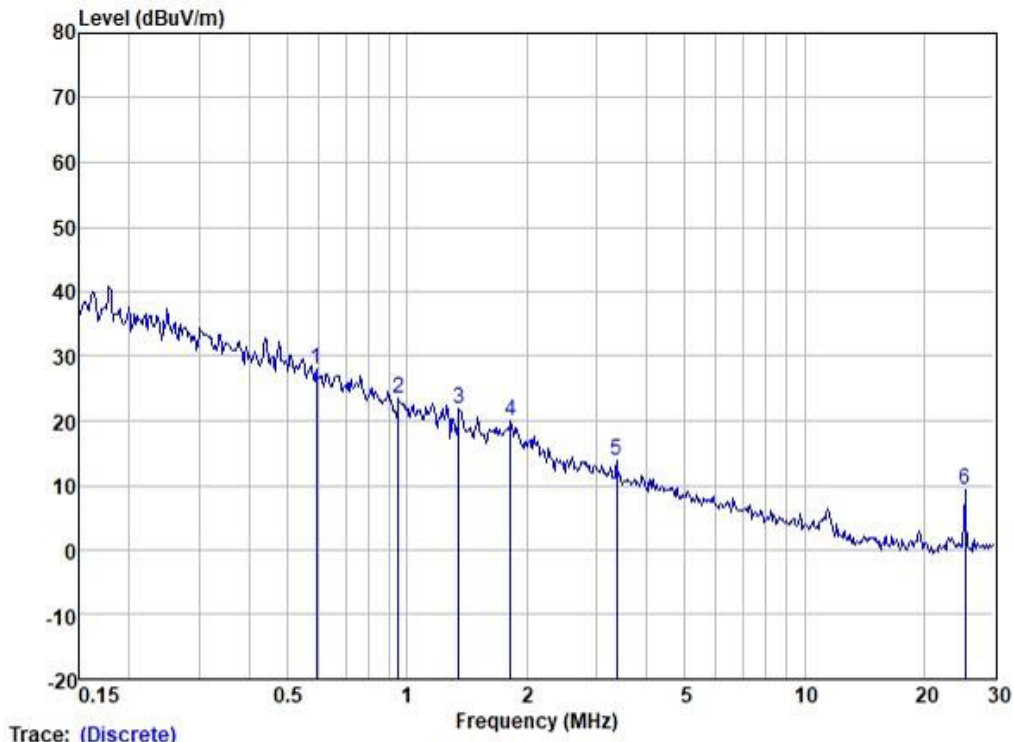
7.4.3 Test Setup Diagram



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.

Test Mode: 04; Polarity: Horizontal



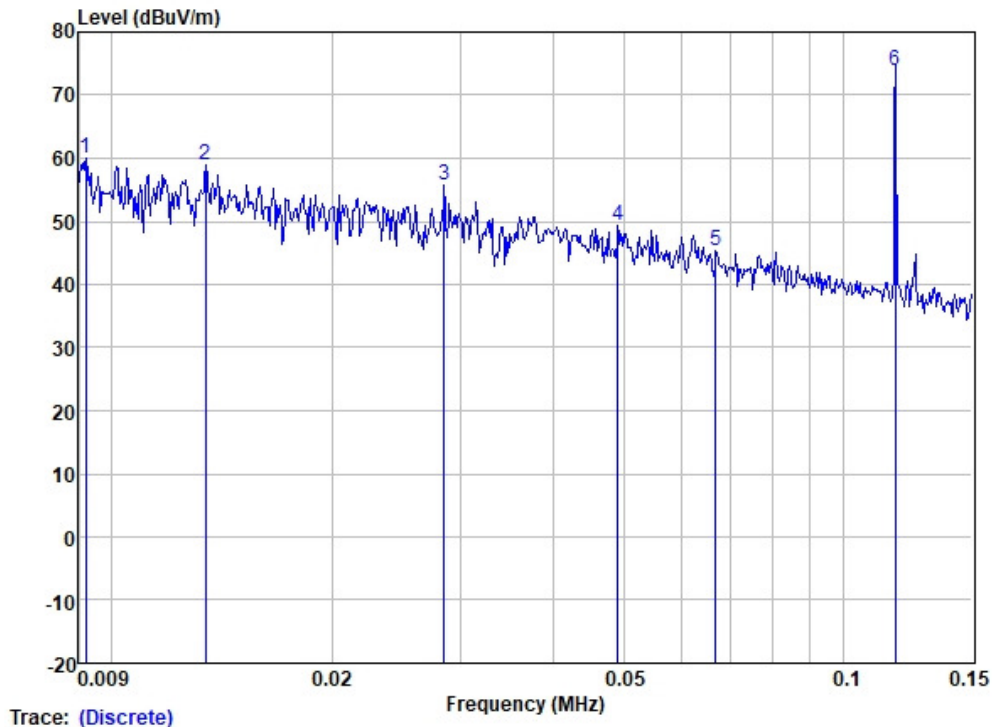
Site : SGS
Condition :
Job :
Model :
Power :
Test Mode :

HORIZONTAL

	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	dBuV		
1	0.59	46.62	10.65	0.10	29.42	27.95			HORIZONTAL	
2	0.95	42.28	10.41	0.13	29.41	23.41			HORIZONTAL	
3	1.35	40.46	10.62	0.15	29.40	21.83			HORIZONTAL	
4	1.82	38.15	10.95	0.19	29.38	19.91			HORIZONTAL	
5	3.36	32.28	10.67	0.32	29.35	13.92			HORIZONTAL	
6	25.32	29.17	8.26	0.94	29.15	9.22			HORIZONTAL	

Frequency (MHz)	Level (dBuV/m) @10m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.59	27.95	32.19	-	19.08	8.87	-	-23.32
0.95	23.41	28.05	-	19.08	4.33	-	-23.72
1.35	21.83	25.00	-	19.08	2.75	-	-22.25
1.82	19.91	29.54	-	19.08	0.83	-	-28.71
3.36	13.92	29.54	-	19.08	-5.16	-	-34.70
25.32	9.22	29.54	-	19.08	-9.86	-	-39.40

Test Mode: 04; Polarity: Horizontal

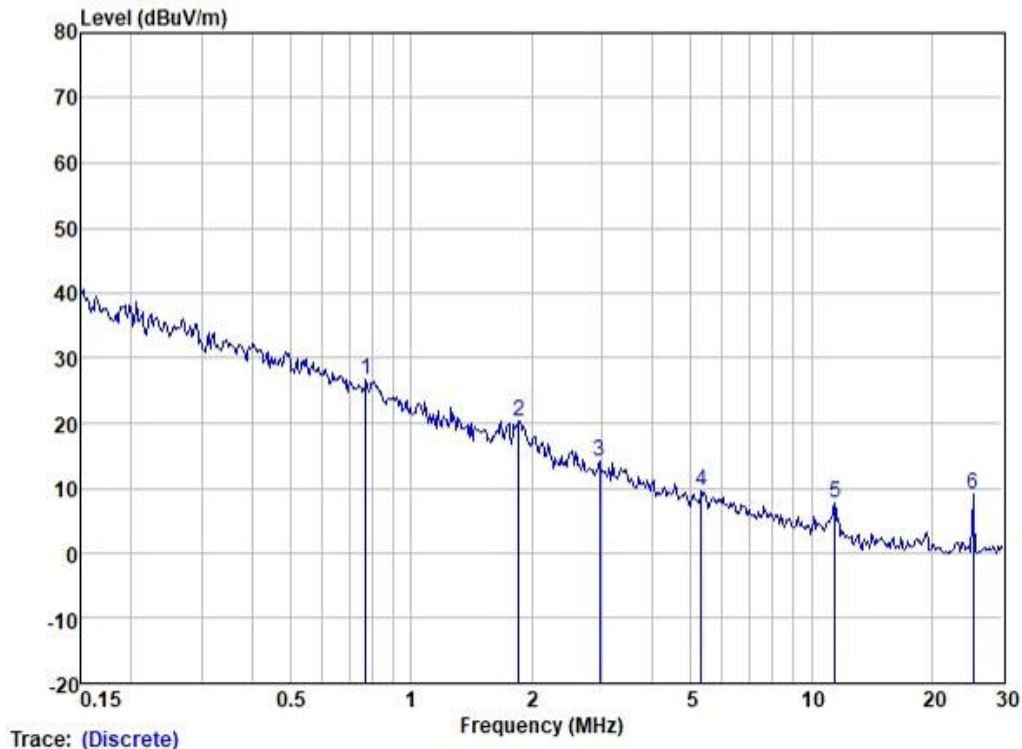


Site : SGS
Condition :
Job :
Model :
Power :
Test Mode :
HORIZONTAL

	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	dBuV		
1	0.01	70.43	17.67	0.05	28.15	60.00			HORIZONTAL	
2	0.01	72.38	14.85	0.05	28.24	59.04			HORIZONTAL	
3	0.03	71.57	12.68	0.05	28.70	55.60			HORIZONTAL	
4	0.05	66.69	11.91	0.05	29.28	49.37			HORIZONTAL	
5	0.07	63.25	11.39	0.05	29.38	45.31			HORIZONTAL	
6	0.12	92.79	10.46	0.05	29.47	73.83			HORIZONTAL	

Frequency (MHz)	Level (dBuV/m) @10m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.01	60.00	-	47.60	59.08	-	0.92	-46.68
0.01	59.04	-	47.60	59.08	-	-0.04	-47.64
0.03	55.60	-	38.06	59.08	-	-3.48	-41.54
0.05	49.37	-	33.62	59.08	-	-9.71	-43.33
0.07	45.31	-	30.70	59.08	-	-13.77	-44.47
0.12	73.83	-	26.02	59.08	-	14.75	-11.27

Test Mode: 04; Polarity: Vertical



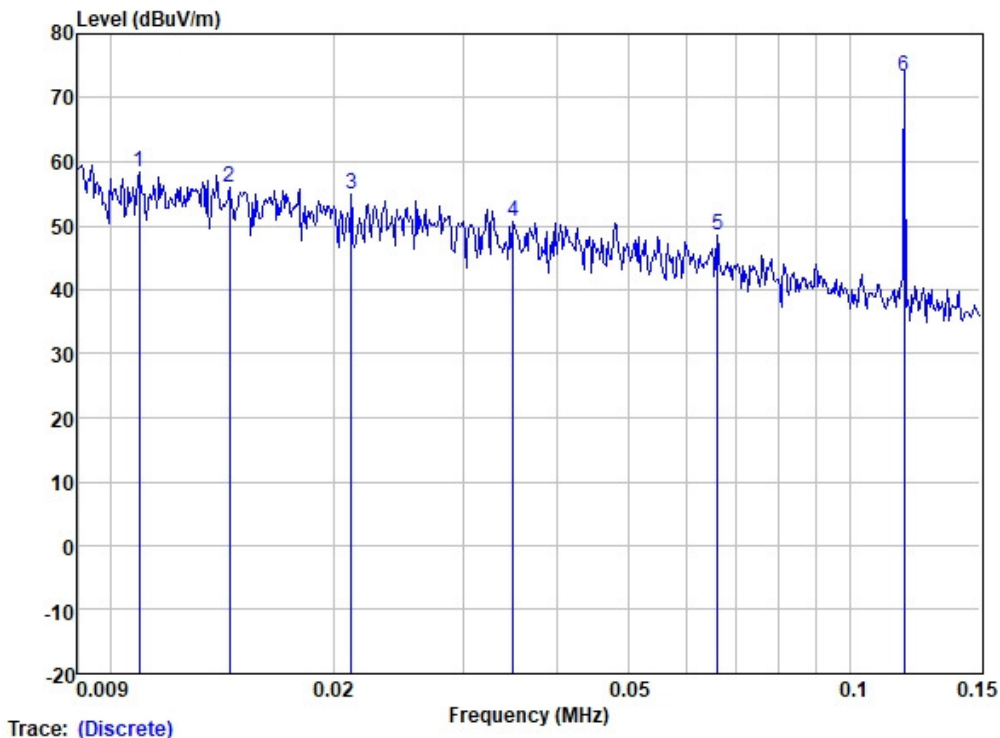
Site : SGS
Condition :
Job :
Model :
Power :
Test Mode :

VERTICAL

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.77	45.41	10.48	0.12	29.41	26.60			VERTICAL	
2	1.86	38.53	10.97	0.19	29.38	20.31			VERTICAL	
3	2.96	32.24	10.82	0.31	29.36	14.01			VERTICAL	
4	5.30	28.16	10.48	0.36	29.33	9.67			VERTICAL	
5	11.44	26.77	9.76	0.54	29.28	7.79			VERTICAL	
6	25.32	28.93	8.26	0.94	29.15	8.98			VERTICAL	

Frequency (MHz)	Level (dBuV/m) @10m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.77	26.6	29.87	-	19.08	7.52	-	-22.35
1.86	20.31	29.54	-	19.08	1.23	-	-28.31
2.96	14.01	29.54	-	19.08	-5.07	-	-34.61
5.3	9.67	29.54	-	19.08	-9.41	-	-38.95
11.44	7.79	29.54	-	19.08	-11.29	-	-40.83
25.32	8.98	29.54	-	19.08	-10.1	-	-39.64

Test Mode: 04; Polarity: Vertical



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

VERTICAL

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	0.01	70.83	15.60	0.05	28.19	58.29			VERTICAL	
2	0.01	69.90	14.25	0.05	28.26	55.94			VERTICAL	
3	0.02	70.45	12.97	0.05	28.41	55.06			VERTICAL	
4	0.04	67.37	12.20	0.05	29.07	50.55			VERTICAL	
5	0.07	66.52	11.41	0.05	29.38	48.60			VERTICAL	
6	0.12	92.19	10.46	0.05	29.47	73.23			VERTICAL	

Frequency (MHz)	Level (dBuV/m) @10m	Limit (dBuV/m) @30m	Limit (dBuV/m) @300m	Convert Factor (dB)	Level (dBuV/m) @ 30m	Level (dBuV/m) @ 300m	Over limit (dB)
0.01	58.29	-	47.60	59.08	-	-0.79	-48.39
0.01	55.94	-	47.60	59.08	-	-3.14	-50.74
0.02	55.06	-	38.06	59.08	-	-4.02	-42.08
0.04	50.55	-	35.56	59.08	-	-8.53	-44.09
0.07	48.60	-	30.70	59.08	-	-10.48	-41.18
0.12	73.23	-	26.02	59.08	-	14.15	-11.87

7.5 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 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: 23.2 °C

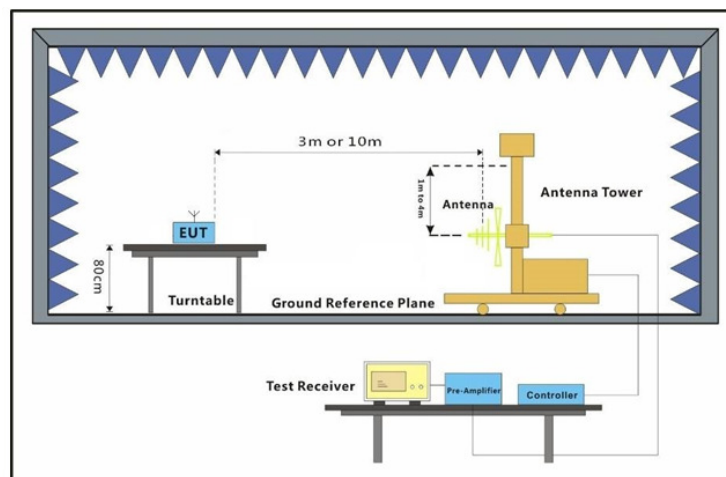
Humidity: 54.8 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 04	Charging by wireless pad

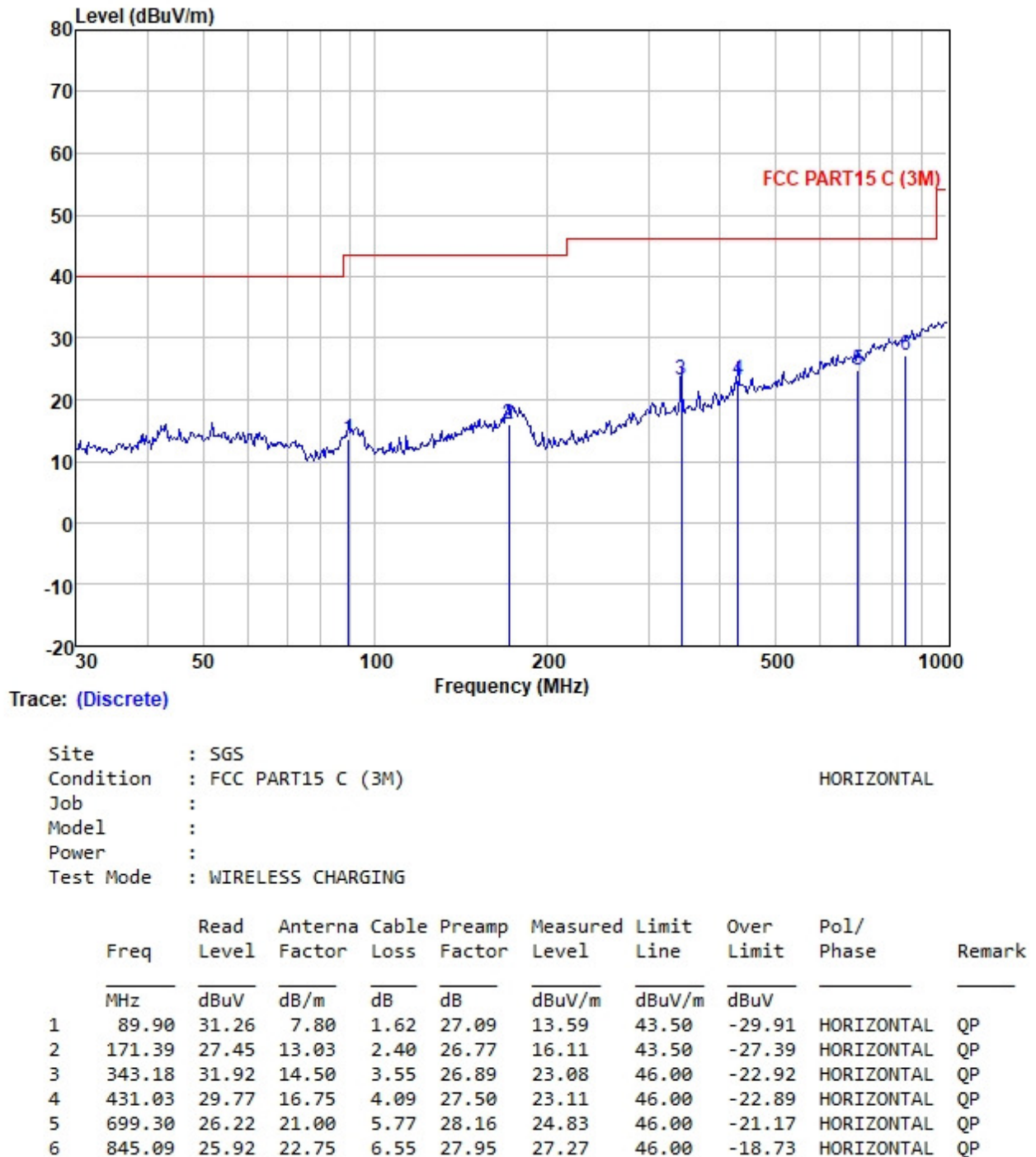
7.5.3 Test Setup Diagram



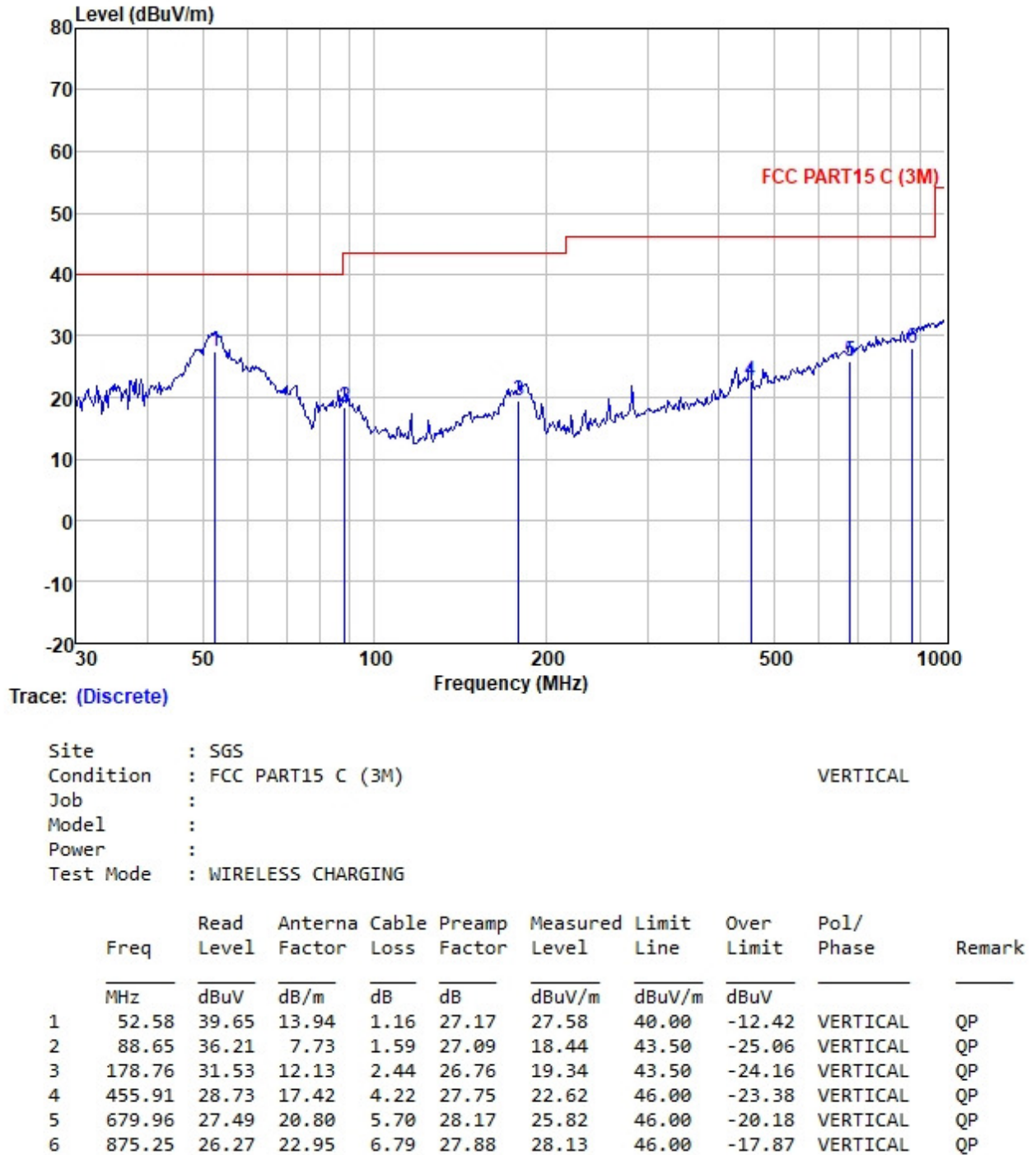
7.5.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic 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

Test Mode: 04; Polarity: Horizontal



Test Mode: 04; Polarity: Vertical



7.6 RF Exposure

7.6.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30
f = frequency in MHz				
* = Plane-wave equivalent power density				

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

S = power density (mW/cm²)
P = the net power delivered to the antenna (mW)
G = gain of the antenna in linear scale
d = distance between observation point and center of the radiator (cm)



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7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

The device has been tested with wireless charging pad at zero charge, intermediate charge, and full charge.

7.6.3 Measurement Data

The EUT has been charging at zero charge, intermediate charge, and full charge.

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)
			zero charge	intermediate charge	full charge	
145.765kHz which is the worst case within the operation frequency range	15	Side 1	7.924	7.751	7.357	307
		Side 2	6.060	6.145	7.867	
		Side 3	7.719	6.554	6.674	
		Side 4	7.036	6.215	6.600	
		Top	6.726	6.208	7.009	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)
			zero charge	intermediate charge	full charge	
145.765kHz which is the worst case within the operation frequency range	15	Side 1	0.459	0.651	0.377	0.815
		Side 2	0.428	0.482	0.613	
		Side 3	0.440	0.648	0.357	
		Side 4	0.337	0.331	0.526	
		Top	0.576	0.565	0.524	

- End of the Report -