TEST REPORT

Application No.:	GZCR2510001596HS
Applicant:	Bemer Int. AG
Address of Applicant:	Austrasse 15, 9495 Triesen, Principality of Liechtenstein
Manufacturer:	Bemer Int. AG
Address of Manufacturer:	Austrasse 15, 9495 Triesen, Principality of Liechtenstein
Factory:	Flink production GmbH
Address of Factory:	No. 11, Alley 24, Lane 198, Xiao-dong Road, 70154 Tainan City, Taiwan, China
Product Name:	LIVATY
Model No.:	Lume
Standard(s) :	47 CFR Part 15, Subpart C
Date of Receipt:	2025-10-17
Date of Test:	2025-11-04 to 2025-11-18
Date of Issue:	2026-05-08
Test Result:	**Pass***

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

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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Guangzhou Laboratory

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Revision Record			
Version	**Report No.**	**Date**	**Remark**
01	GZCR251000159601	2026-05-08	Original

Authorized for issue by:				
		Key Liang **Key Liang/Project Engineer**		
Approved By		Vico Cui **Vico Cui/Reviewer**		

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2 Test Summary

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

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

Note:

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

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

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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery operation: DC 3.7V 1500mAh for internal rechargeable battery as below: Model: 803450 Rated: DC 3.7 V, 1500mAh, 5.55Wh Charged by wireless charger MH-D043(FCC ID: 2BSBS-MH-D43) which was powered by AC/DC adapter, details refer to section 4.2 of test report.
Test voltage:	AC 120V, 60 Hz
Cable(s):	1.2m unscreened USB C charging cable.
Operation frequency:	146 kHz to 205.974 kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC adapter provided by applicant.	--	Model: PD20W-C-GAN Input: AC 100-240V 50/60Hz 0.6A Output: DC 5.0V 3A, DC 9.0V 2.22A, DC 12.0V 1.67A,	--

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 0.274%
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.22dB
Restricted Bands	±5.14dB (3m); ±4.90dB (10m);±4.88dB (1GHz-6GHz);±5.06dB (6GHz-18GHz); ±5.30dB (18GHz-40GHz)
Radiated Emissions (9kHz-30MHz)	± 3.12dB
Radiated Emissions (30MHz-1GHz)	±5.14dB (3m); ±4.90dB (10m)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty) or U_{ETSI}(ETSI Uncertainty).

Emission decision rule:

– Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report.

– Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

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4.5 Test Facility

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

- **ACMA**

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

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

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

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

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

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

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

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

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

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

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

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

20dB Bandwidth					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24
MI CABLE	SGS-EMC	0.8M	EMC2136	2025-11-02	2027-11-01

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Coaxial Cable	HangTianXing	2m	EMC0107	2025-08-12	2026-08-11
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2025-08-14	2028-08-13
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2025-08-13	2026-08-12
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2025-11-18	2026-11-17
Test Software E3r	Audix	Ver.6.191211	GZE100-77	N/A	N/A

Restricted Bands					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
MXA Signal Analyzer (10Hz-8.4GHz)	Agilent Technologies	N9020A	SEM004-10	2025-11-25	2026-11-24
MI CABLE	SGS-EMC	0.8M	EMC2136	2025-11-02	2027-11-01

Radiated Emissions (9kHz-30MHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2025-08-13	2028-08-12
Coaxial cable	Mirco-COAX UTIFLEX	311A	EMC0540	2024-08-19	2026-08-18
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2025-11-25	2026-11-24
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2024-04-16	2026-04-15
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR7	EMC2220	2025-11-18	2026-11-17
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

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

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

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

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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

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

7.1.1 E.U.T. Operation

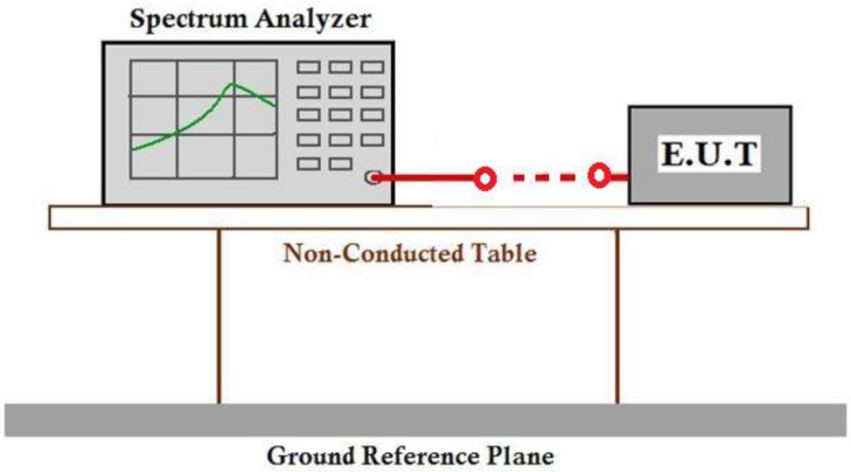
Operating Environment:

Temperature: 22.3 °C Humidity: 60.7 % RH Atmospheric Pressure: 1018 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Charge mode_Keep the EUT charging by wireless changer

7.1.3 Test Setup Diagram



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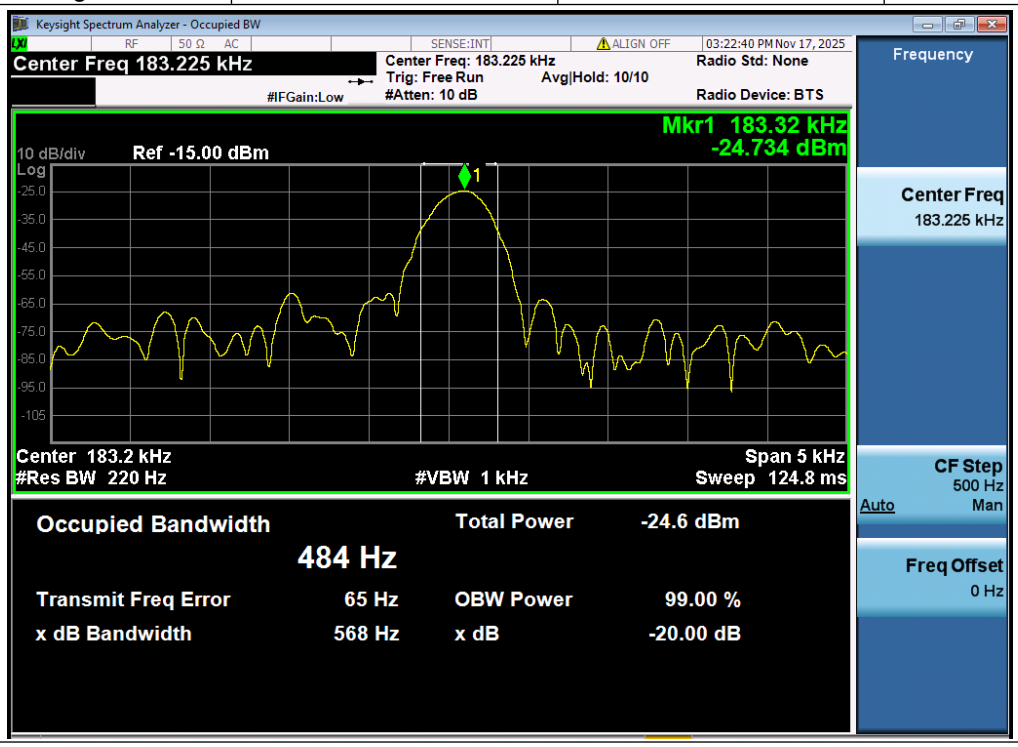
7.1.4 Measurement Procedure and Data

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

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

Test Frequency (kHz)	20 dB Bandwidth (kHz)	Limit (kHz)	Results
183.32 kHz which is the worst case within the operation frequency range	0.568	---	Pass



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

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2020) Section 6.2
Test Engineer: Sunny-xx Yang
Limit:

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

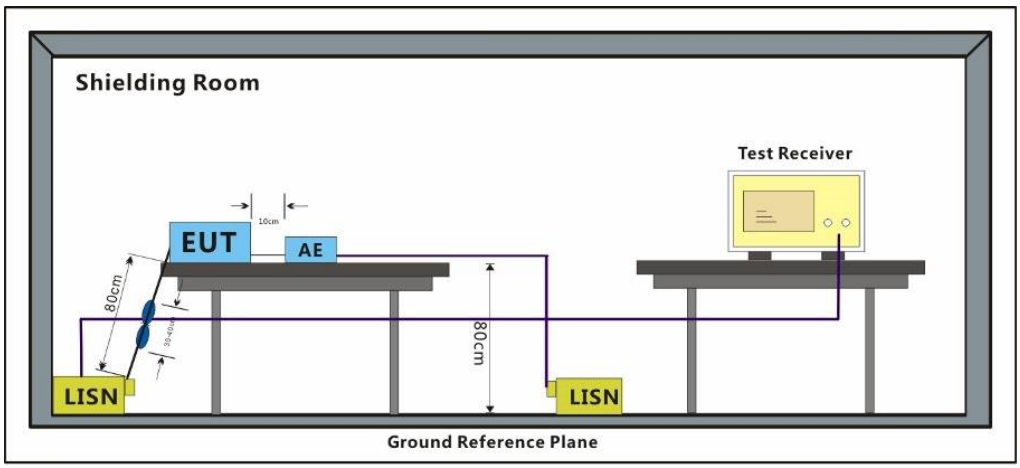
7.2.1 E.U.T. Operation

Operating Environment:
Temperature: 23.1 °C Humidity: 53.3 % RH Atmospheric Pressure: 1018 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Charge mode_Keep the EUT charging by wireless changer

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
Guangzhou Branch Electromagnetic Compatibility Laboratory

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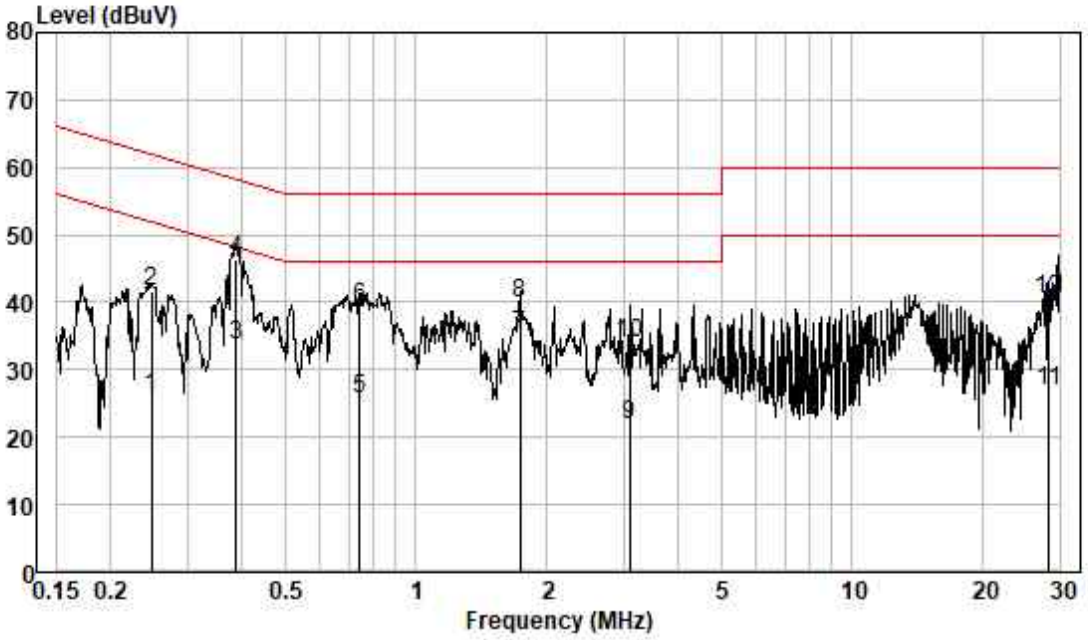
Test Mode: 13; Line: Live line



Pol :LINE
Mode :
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.248	16.26	0.04	9.60	25.90	51.82	-25.92	Average
2	0.248	32.04	0.04	9.60	41.68	61.82	-20.14	QP
3	0.387	23.96	0.05	9.54	33.55	48.12	-14.57	Average
4	0.387	36.78	0.05	9.54	46.37	58.12	-11.75	QP
5	0.743	16.06	0.06	9.60	25.72	46.00	-20.28	Average
6	0.743	29.67	0.06	9.60	39.33	56.00	-16.67	QP
7	1.734	25.34	0.11	9.61	35.06	46.00	-10.94	Average
8	1.734	30.26	0.11	9.61	39.98	56.00	-16.02	QP
9	3.090	12.10	0.16	9.56	21.82	46.00	-24.18	Average
10	3.090	24.34	0.16	9.56	34.06	56.00	-21.94	QP
11	28.302	16.51	0.45	9.85	26.81	50.00	-23.19	Average
12	28.302	30.03	0.45	9.85	40.33	60.00	-19.67	QP

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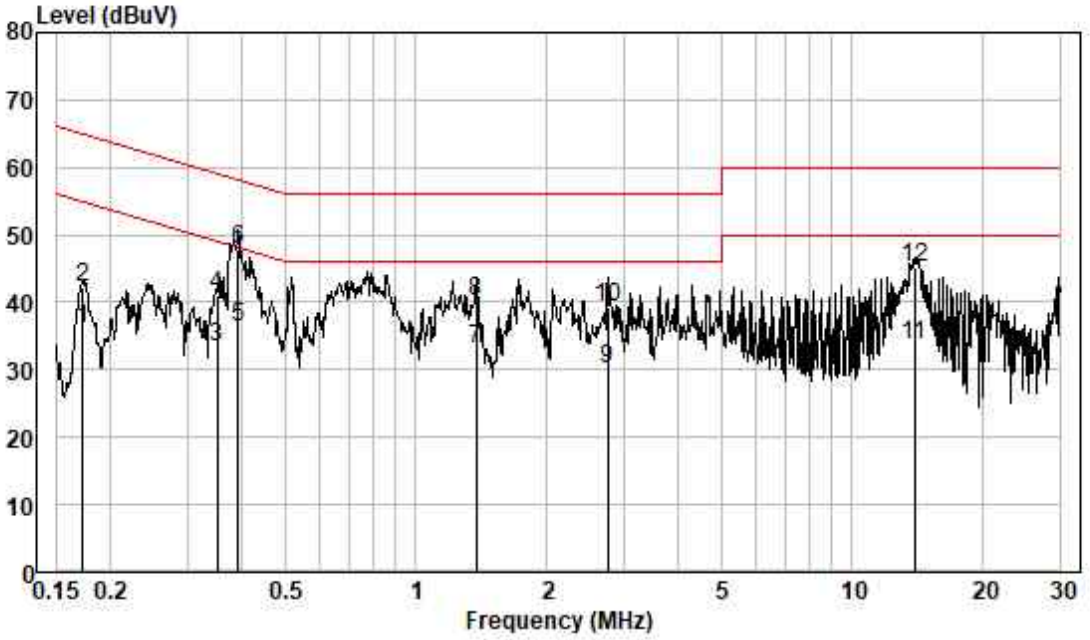
Test Mode: 13; Line: Neutral Line



Pol :NEUTRAL
Mode :
Model :
Power :

	Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.172	26.44	0.04	9.54	36.02	54.86	-18.84	Average
2	0.172	32.63	0.04	9.54	42.21	64.86	-22.65	QP
3	0.350	23.71	0.05	9.51	33.27	48.96	-15.69	Average
4	0.350	31.54	0.05	9.51	41.10	58.96	-17.86	QP
5	0.391	26.64	0.05	9.53	36.22	48.03	-11.81	Average
6	0.391	38.33	0.05	9.53	47.91	58.03	-10.12	QP
7	1.374	23.33	0.10	9.54	32.97	46.00	-13.03	Average
8	1.374	30.40	0.10	9.54	40.04	56.00	-15.96	QP
9	2.750	20.37	0.15	9.57	30.09	46.00	-15.91	Average
10	2.750	29.56	0.15	9.57	39.28	56.00	-16.72	QP
11	13.915	23.53	0.31	9.88	33.72	50.00	-16.28	Average
12	13.915	34.91	0.31	9.88	45.10	60.00	-14.90	QP

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7.3 Restricted Bands

Test Requirement	47 CFR Part 15, Subpart C 15.205
Test Method:	ANSI C63.10 (2020) Section 6.10.5
Test Engineer:	Lily Kuang
Limit:	The fundamental wave could not fall in the restricted band 90KHz-110KHz

7.3.1 E.U.T. Operation

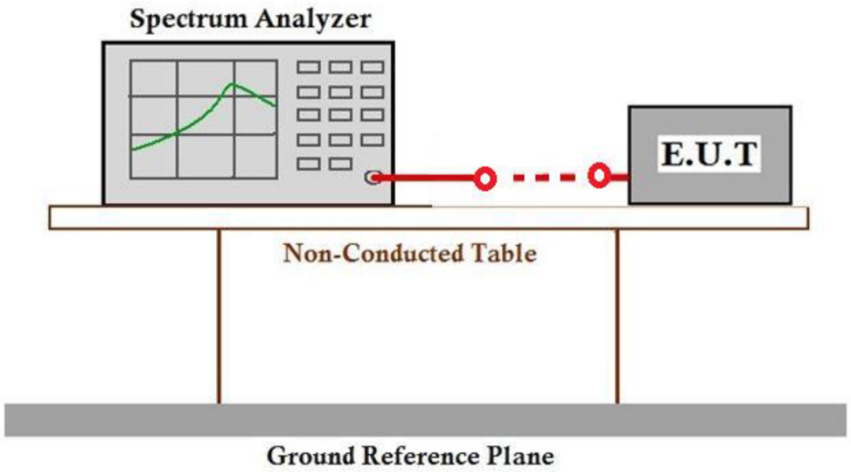
Operating Environment:

Temperature: 22.3 °C Humidity: 60.7 % RH Atmospheric Pressure: 1018 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Charge mode_Keep the EUT charging by wireless changer

7.3.3 Test Setup Diagram



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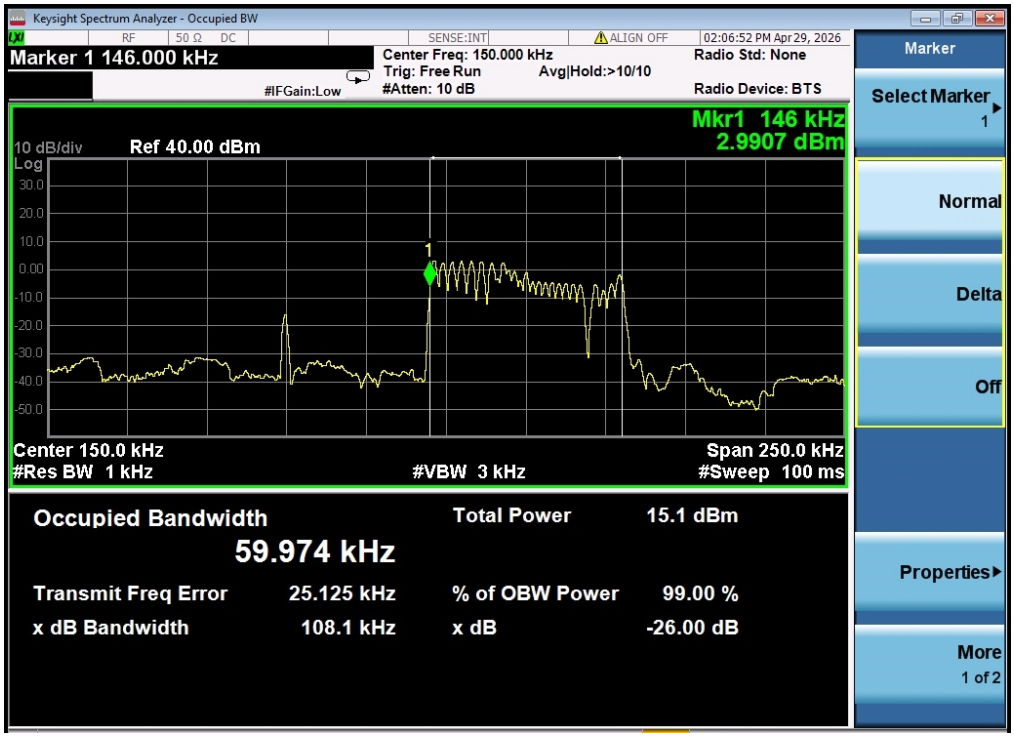
7.3.4 Measurement Procedure and Data

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

According to the test data below, the fundamental wave is not fall in the restricted band 90kHz-110kHz. The field strength also meets the 15.209 requirement, please refer to clause 7.4.

Test Mode: 13



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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 (2020) Section 6.4
Test Engineer: Bob Qu
Test Distance: 3m
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.		

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than λ/2π and the limit distance is greater than λ/2π, 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 λ/2π distance, and at a 20 dB/decade of distance rate beyond λ/2π. This shall be accomplished using Equation (2):

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

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

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

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

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

Remark:

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

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

7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.5 °C Humidity: 45.7 % RH Atmospheric Pressure: 1018 mbar

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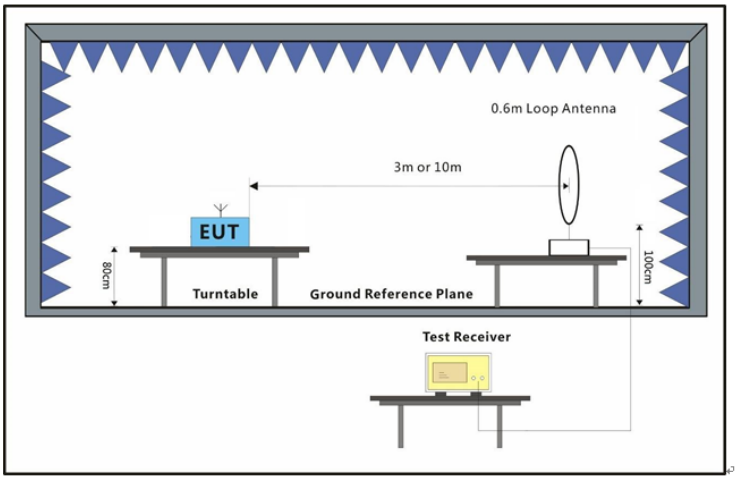
7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Charge mode_Keep the EUT charging by wireless changer

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.

b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:

i. its centre shall be at 1.3 m height above the ground plane;

ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and

iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):

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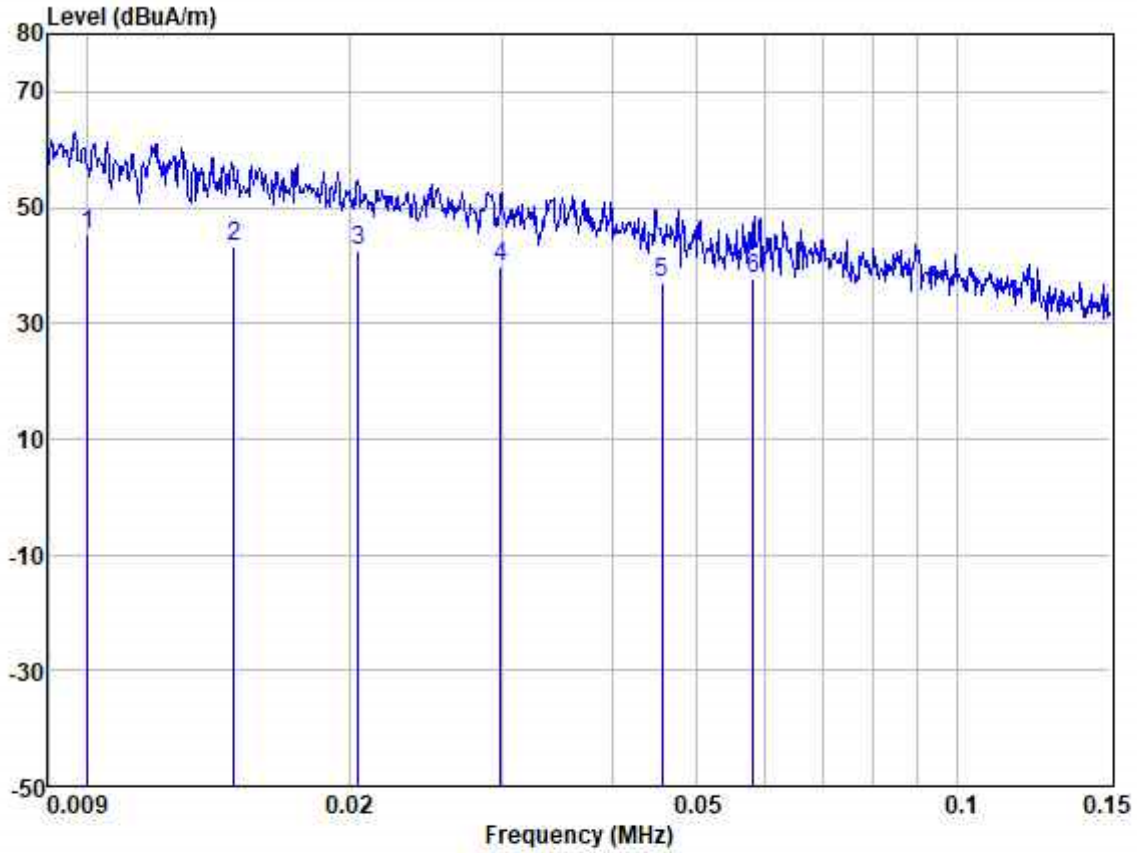
Test Mode: 13;



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.010	103.21	-30.01	0.00	28.02	45.18				Average
2	0.015	104.40	-33.17	0.00	28.13	43.10				Average
3	0.020	105.51	-34.57	0.00	28.28	42.66				Average
4	0.030	104.40	-35.80	0.01	28.75	39.86				Average
5	0.046	102.74	-36.50	0.02	29.24	37.02				Average
6	0.058	103.58	-36.69	0.02	29.35	37.56				Average

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Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Extrapolation Correction (dB)@3m to 300 m	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.010	45.18	47.60	-80	-34.82	-82.42	AV
0.015	43.10	44.08	-80	-36.90	-80.98	AV
0.020	42.66	41.58	-80	-37.34	-78.92	AV
0.030	39.86	38.06	-80	-40.14	-78.20	AV
0.046	37.02	34.35	-80	-42.98	-77.33	AV
0.058	37.56	32.34	-80	-42.44	-74.78	AV

Remark:
Extrapolation Correction (dB)@3m to 300 m = 40*log(3/300)=-80 according to FCC part 15.31 (f) (1)
Level (dBuV/m) @ 300m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 300 m

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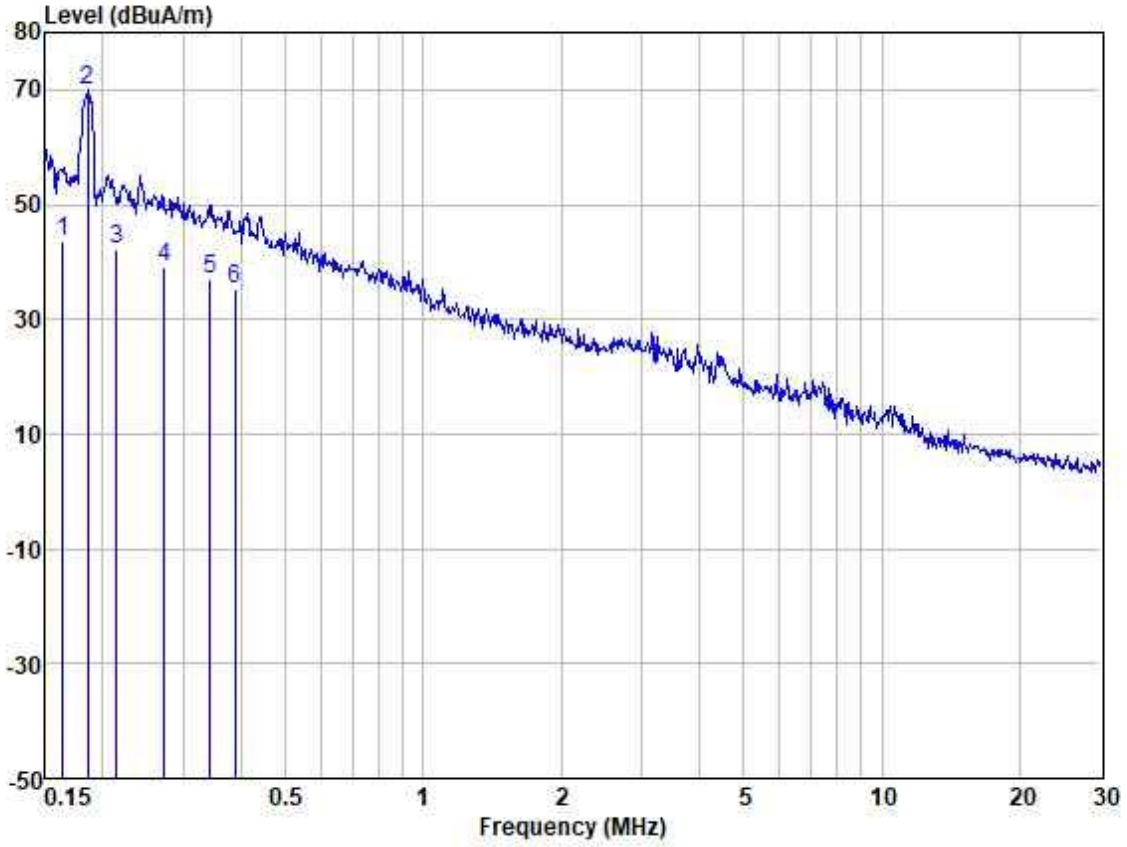
Test Mode: 13;



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

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	0.163	110.06	-36.84	0.03	29.50	43.75				Average
2	0.185	136.23	-36.86	0.03	29.50	69.90				Average
3	0.214	108.54	-36.86	0.03	29.50	42.21				Average
4	0.273	105.56	-36.89	0.04	29.48	39.23				Average
5	0.343	103.19	-36.93	0.05	29.43	36.88				Average
6	0.389	101.47	-36.97	0.06	29.42	35.14				Average

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Frequency (MHz)	Level @3m (dBuV/m)	Limit @300m (dBuV/m)	Extrapolation Correction (dB)@3m to 300 m	Level @ 300m (dBuV/m)	Over limit (dB)	Remark
0.163	43.75	23.36	80	-36.25	-59.61	AV
0.185	69.90	22.26	80	-10.10	-32.36	AV
0.214	42.21	21.00	80	-37.79	-58.79	AV
0.273	39.23	18.88	80	-40.77	-59.65	AV
0.343	36.88	16.90	80	-43.12	-60.02	AV
0.389	35.14	15.81	80	-44.86	-60.67	AV

Remark1:
Extrapolation Correction (dB)@3m to 300 m = 40*log(3/300)=-80 according to FCC part 15.31 (f) (1)
Level (dBuV/m) @ 300m = Measured Level (dBuV/m) @3m + Extrapolation Correction (dB)@3 m to 300 m

Remark2: The frequency 185kHz is the intentional transmitter.

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7.5 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2020) Section 6.5
Test Engineer: Bob Qu
Test Distance: 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	500	3
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.		

Note

1:The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

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

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

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20l0g(10/3)= 10.46dB (for 10m test distance).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 46.1 % RH Atmospheric Pressure: 1018 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Charge mode_Keep the EUT charging by wireless changer

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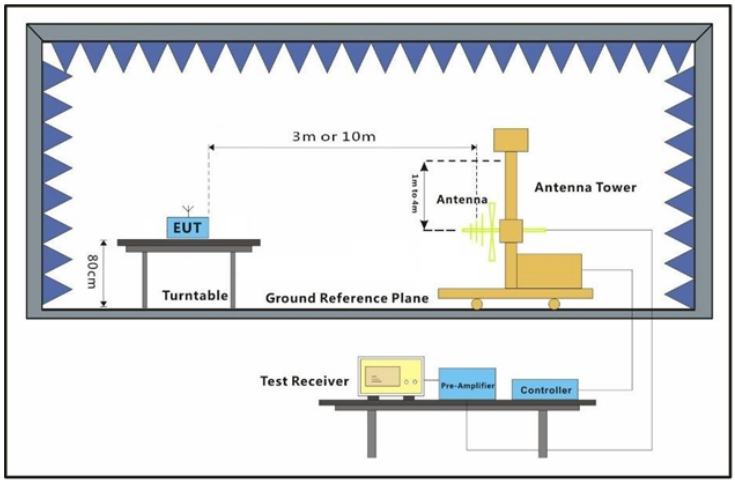
7.5.3 Test Setup Diagram



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 for below 1GHz at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. 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 worse case.

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

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

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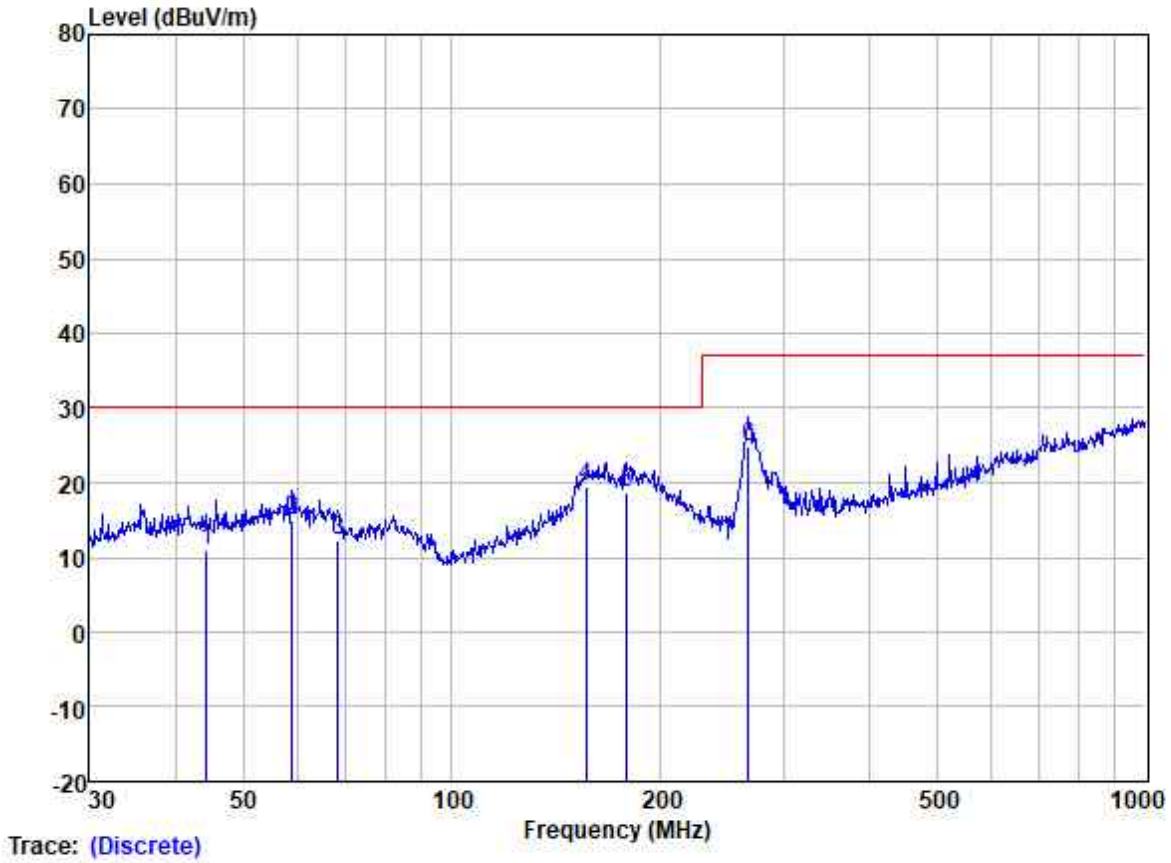
Test Mode: 13; Polarity: Horizontal



Trace: (Discrete)

Site : SGS
:
Model :
Power :
Test Mode : Charging

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dBS/m	dB	dB	dBuA/m	dBuA/m	dB		
1	44.275	24.15	13.93	0.72	27.97	10.83	30.00	-19.17	HORIZONTAL	QP
2	58.819	28.80	13.31	0.77	27.93	14.95	30.00	-15.05	HORIZONTAL	QP
3	68.391	27.71	11.76	0.80	27.88	12.39	30.00	-17.61	HORIZONTAL	QP
4	155.910	32.58	13.54	1.01	27.71	19.42	30.00	-10.58	HORIZONTAL	QP
5	178.758	32.14	12.95	1.09	27.64	18.54	30.00	-11.46	HORIZONTAL	QP
6	267.546	38.04	12.49	1.61	27.24	24.90	37.00	-12.10	HORIZONTAL	QP

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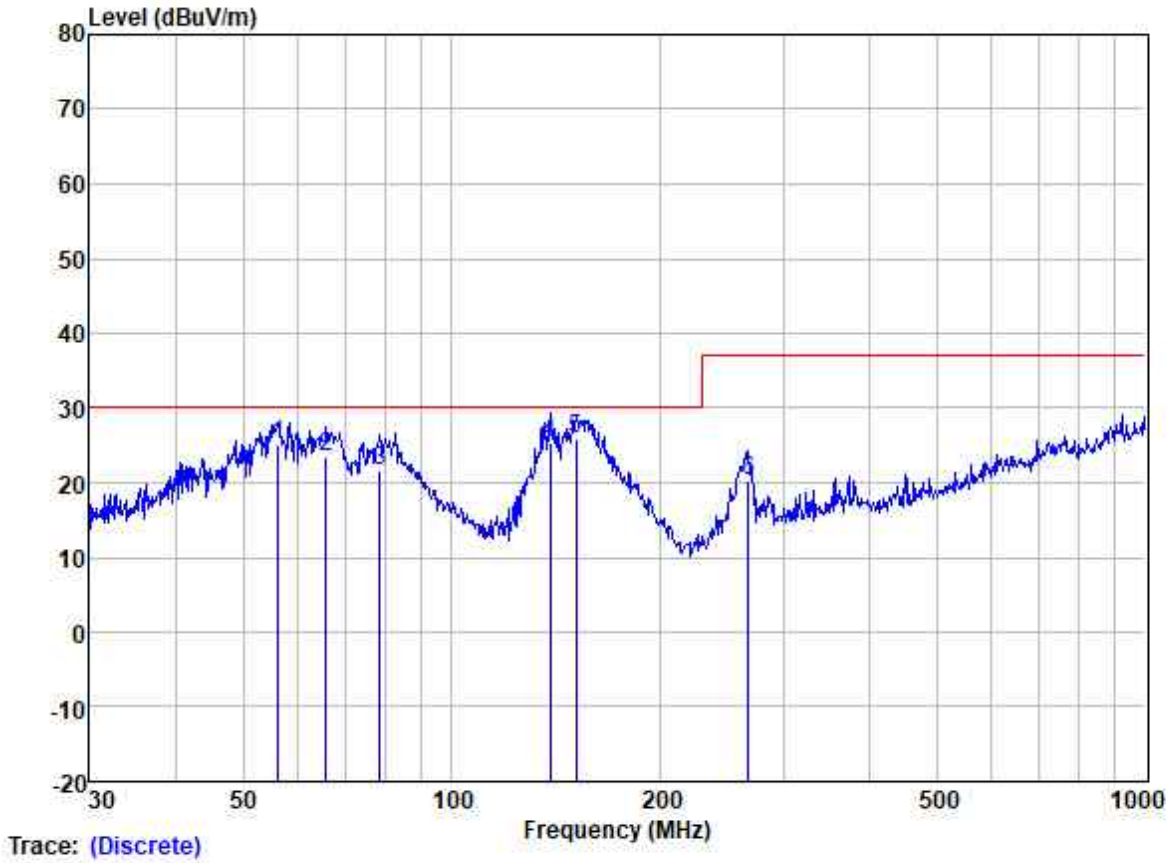
Test Mode: 13; Polarity: Vertical



Trace: (Discrete)

Site : SGS
:
Model :
Power :
Test Mode : Charging

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dBS/m	dB	dB	dBuA/m	dBuA/m	dB		
1	56.197	38.57	13.61	0.77	27.94	25.01	30.00	-4.99	VERTICAL	QP
2	65.803	38.32	12.25	0.79	27.89	23.47	30.00	-6.53	VERTICAL	QP
3	78.689	38.85	9.68	0.81	27.84	21.50	30.00	-8.50	VERTICAL	QP
4	138.387	39.17	13.02	0.95	27.75	25.39	30.00	-4.61	VERTICAL	QP
5	151.067	39.03	13.47	0.99	27.72	25.77	30.00	-4.23	VERTICAL	QP
6	267.546	33.30	12.49	1.61	27.24	20.16	37.00	-16.84	VERTICAL	QP

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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR251000159601

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9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2510001596HS

- End of the Report -

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