

TEST REPORT

Product Name : **Wireless Charger speaker**

Model Number : **SL249, 7198-64, SL240**

FCC ID : **2ABHA0093**

Prepared for : Ningbo Cstar Imp & Exp CO., LTD
Address : Floor 4, Building E, No. 655-90, Qiming Road, Yinzhou
Investment & Innovation Center, Ningbo, China

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Report Number : ED210518081W2
Date(s) of Tests : May 18, 2021 to May 26, 2021
Date of issue : May 26, 2021

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TEST REPORT DESCRIPTION

Applicant : Ningbo Cstar Imp & Exp CO., LTD
 Address : Floor 4,Building E, No. 655-90,Qiming Road, Yinzhou Investment &Innovation Center, Ningbo, China
 Manufacturer : Ningbo Cstar Imp & Exp CO., LTD
 Address : Floor 4,Building E, No. 655-90,Qiming Road, Yinzhou Investment &Innovation Center, Ningbo, China
 EUT : Wireless Charger speaker
 Model Name : SL249, 7198-64, SL240
 Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report

Date of Test : May 18, 2021 to May 26, 2021

Prepared by : Yaping Shen
Yaping Shen/Editor

Reviewer : Joe Xia
Joe Xia/Supervisor

Approved & Authorized Signer : Lisa Wang
Lisa Wang/Manager



Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	ED210518081W2	/	Original Version



1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass
Note: N/A is an abbreviation for Not Applicable.		



2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Wireless Charger speaker

Model Number : SL249, 7198-64, SL240

Input : DC 5.0V

Operation : 110KHz-205KHz
Frequency for WPT

Modulation : ASK

Antenna Type: : Induction Coil antenna

Date of Received : May 18, 2021

Date of Test : May 18, 2021 to May 26, 2021

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E	--	--	None
2	DC IN port	I/O	No	Unshielded	1 port
<p>* Note: For the purposes of the present document, the following symbols apply:</p> <p>AC AC Power Port</p> <p>DC DC Power Port</p> <p>N/E Non-Electrical</p> <p>I/O Signal Input or Output Port (Not Involved in Process Control)</p> <p>TP Telecommunication Ports</p>					

2.3. Independent Operation Modes

- A ON
 1. Charging for iPhone by WPT(Full load)

2.4. Test Manner

Test Items	Test Voltage	Operation Modes
Conducted Emission	AC 120V/60Hz	Mode A.1
Radiated Emission	AC 120V/60Hz	Mode A.1

2.5. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2018.11.30
 The certificate is valid until 2022.10.28
 The Laboratory has been assessed and proved to be in compliance with
 CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)
 The Certificate Registration Number is L2291

Accredited by FCC, August 09, 2018
 Designation Number: CN1300
 Test Firm Registration Number: 882943
 Accredited by A2LA, August 08, 2018
 The Certificate Registration Number is 4321.01

Accredited by Industry Canada, November 09, 2018
 The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (DONGGUAN) CO., LTD.
 Site Location : -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology Reserch and
 Development Base, No.9, Xincheng Avenue, Songshanhu High-technology
 Industrial Development Zone, Dongguan, Guangdong, China

2.6. Test Software

Item Software
 Conducted Emission : EMTEK(Ver.CON-03A1)-Shenzhen
 Radiated Emission : EMTEK(Ver.RA-03A1)-Shenzhen

2.7. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	iPhone	Apple	A1526	N/A	N/A
2.	Adapter	Aohal	A&A-050200U-US1	N/A	N/A

2.8. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission Uncertainty	3.16dB(9k~150kHz Conduction 2#) 2.90dB(150k-30MHz Conduction 2#)
Radiated Emission Uncertainty (3m Chamber)	3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V) 4.46dB (1~6GHz)



3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/30/2020	05/31/2021
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/30/2020	05/31/2021
50Ω Coaxial Switch	Anritsu	MP59B	M20531	05/30/2020	05/31/2021
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/30/2020	05/31/2021
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/30/2020	05/31/2021
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/30/2020	05/31/2021

3.2. For 3m Radiated Emission Measurement 9K-30M (3m chamber 1#)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/30/2020	05/31/2021
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	05/30/2020	05/31/2021
Cable		3M SF104-26.5	295838/4	05/30/2020	05/31/2021
Cable		6M SF104-26.5	295840/4	05/30/2020	05/31/2021

3.3. For 3m Radiated Emission Measurement 30M-1G (3m chamber 1#)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/30/2020	05/31/2021
Pre-Amplifier	HP	8447F	2944A07999	05/30/2020	05/31/2021
Bilog Antenna	Schwarzbeck	VULB9163	142	05/30/2020	05/31/2021
Cable	Schwarzbeck	AK9513	ACRX1	05/30/2020	05/31/2021
Cable	Rosenberger	N/A	FP2RX2	05/30/2020	05/31/2021
Cable	Schwarzbeck	AK9513	CRPX1	05/30/2020	05/31/2021
Cable	Schwarzbeck	AK9513	CRRX2	05/30/2020	05/31/2021

4. 20DB BANDWIDTH

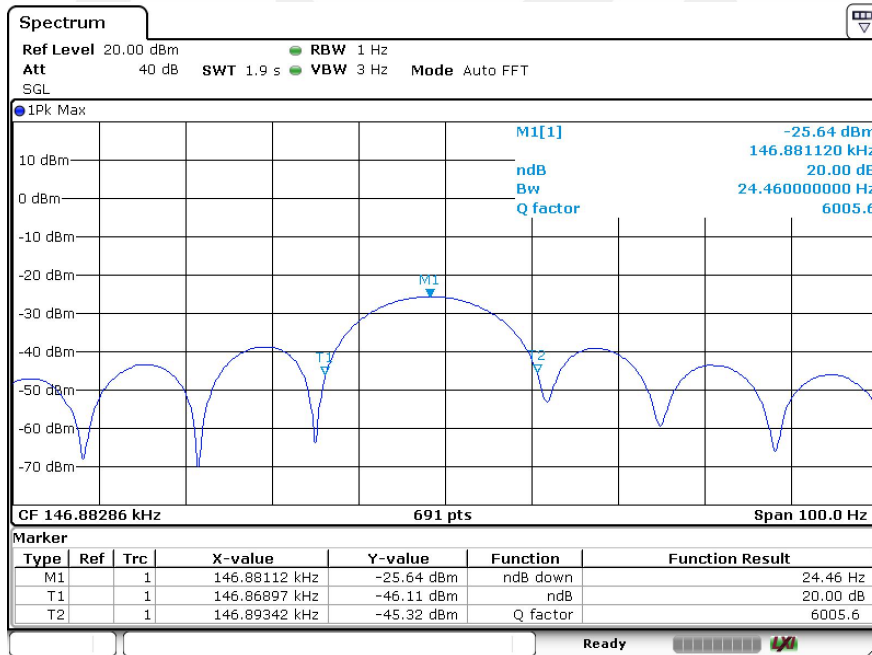
4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously
 Set RBW = 3Hz.
 Set the video bandwidth (VBW) =10kHz.
 Set Span= 1KHz
 Set Detector = Peak.
 Set Trace mode = max hold.
 Set Sweep = auto couple.
 Measure and record the results in the test report.

4.2. Test Results

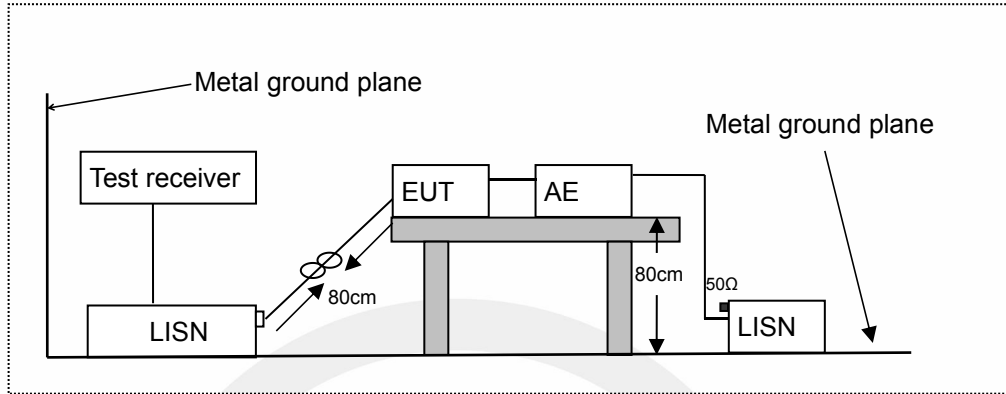
Temperature: 24°C Test Date: 05/19/2021
 Humidity: 53 % Test By: KK

20dB Band=24.46Hz



5. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
 AE: Associated equipment
 EUT: Equipment under test

5.2. Limits

FCC Part 15.207

Frequency (MHz)		Limit (dB μ V)	
		Quasi-peak Level	Average Level
0.15	~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~ 5.00	56.0	46.0
5.00	~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.
 NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation:

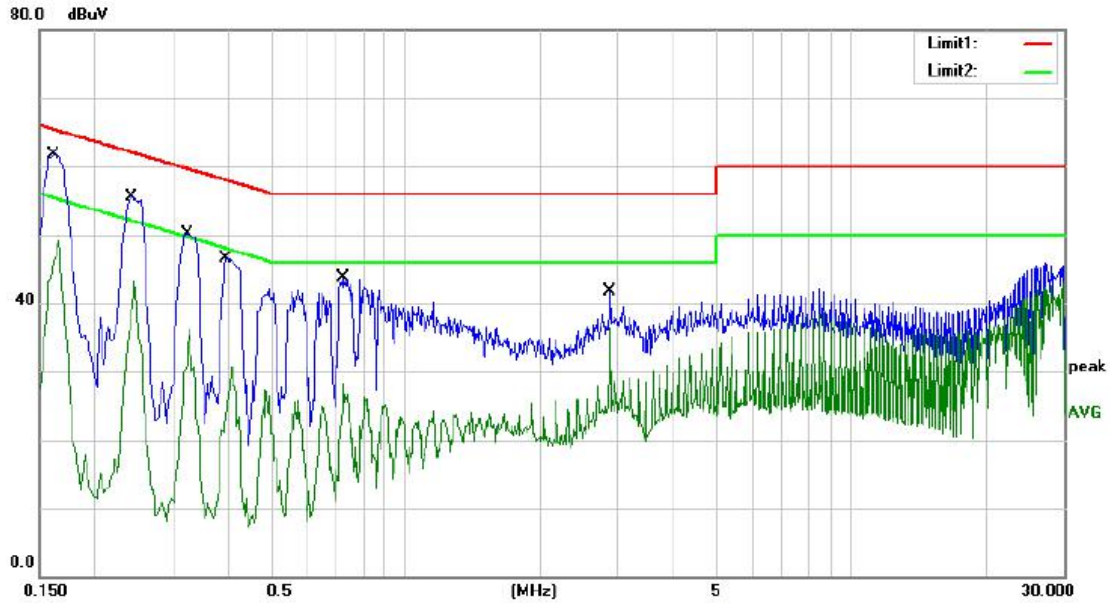
Emission Level (dB μ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB μ V)

Margin (dB) = Emission Level (dB μ V) - Limit (dB μ V)

5.4. Measuring Results

PASS.

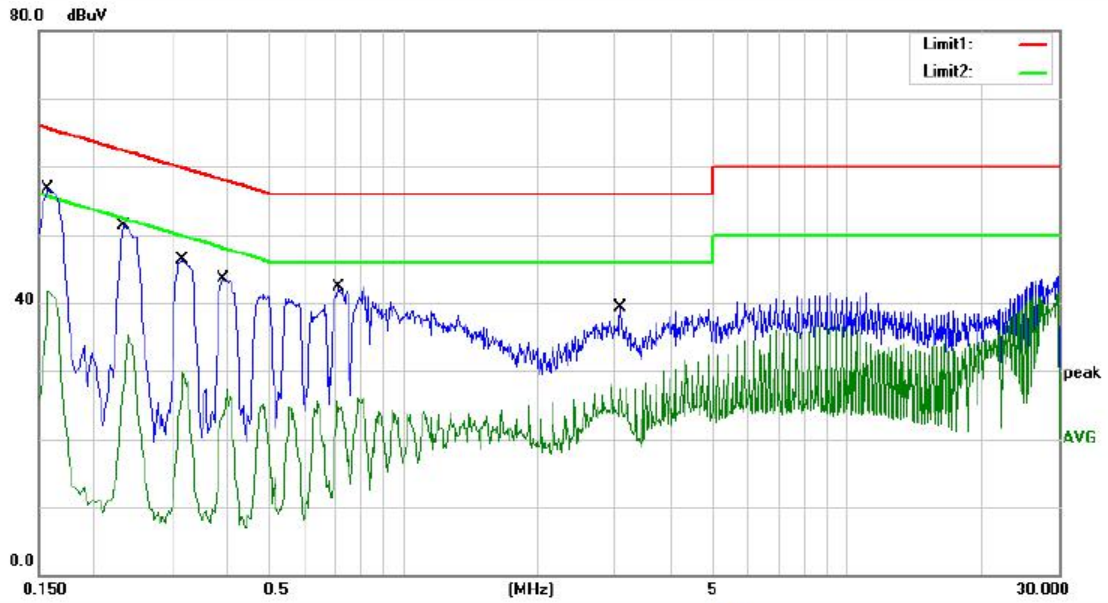




Site site #1 Phase: **N** Temperature: 25.6
 Limit: FCC PART 15 B_QP (CE) Power: AC 120V/60Hz Humidity: 62 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1620	51.24	10.48	61.72	65.36	-3.64	QP	
2		0.1620	38.60	10.48	49.08	55.36	-6.28	AVG	
3		0.2420	45.08	10.40	55.48	62.03	-6.55	QP	
4		0.2420	32.85	10.40	43.25	52.03	-8.78	AVG	
5		0.3220	39.84	10.31	50.15	59.66	-9.51	QP	
6		0.3220	25.79	10.31	36.10	49.66	-13.56	AVG	
7		0.3940	36.34	10.24	46.58	57.98	-11.40	QP	
8		0.3940	20.53	10.24	30.77	47.98	-17.21	AVG	
9		0.7260	33.59	10.13	43.72	56.00	-12.28	QP	
10		0.7260	18.15	10.13	28.28	46.00	-17.72	AVG	
11		2.8700	31.67	10.09	41.76	56.00	-14.24	QP	
12		2.8700	26.26	10.09	36.35	46.00	-9.65	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:



Site: site #1
 Limit: FCC PART 15 B_QP (CE)
 Mode: Wireless Charging
 Note:

Phase: **L1**
 Power: AC 120V/60Hz

Temperature: 25.6
 Humidity: 62 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1580	46.13	10.48	56.61	65.57	-8.96	QP	
2		0.1580	31.15	10.48	41.63	55.57	-13.94	AVG	
3		0.2340	40.90	10.40	51.30	62.31	-11.01	QP	
4		0.2340	24.89	10.40	35.29	52.31	-17.02	AVG	
5		0.3180	36.05	10.32	46.37	59.76	-13.39	QP	
6		0.3180	19.36	10.32	29.68	49.76	-20.08	AVG	
7		0.3900	33.30	10.24	43.54	58.06	-14.52	QP	
8		0.3900	17.09	10.24	27.33	48.06	-20.73	AVG	
9		0.7140	32.25	10.13	42.38	56.00	-13.62	QP	
10		0.7140	15.98	10.13	26.11	46.00	-19.89	AVG	
11		3.0780	29.24	10.08	39.32	56.00	-16.68	QP	
12		3.0780	17.93	10.08	28.01	46.00	-17.99	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

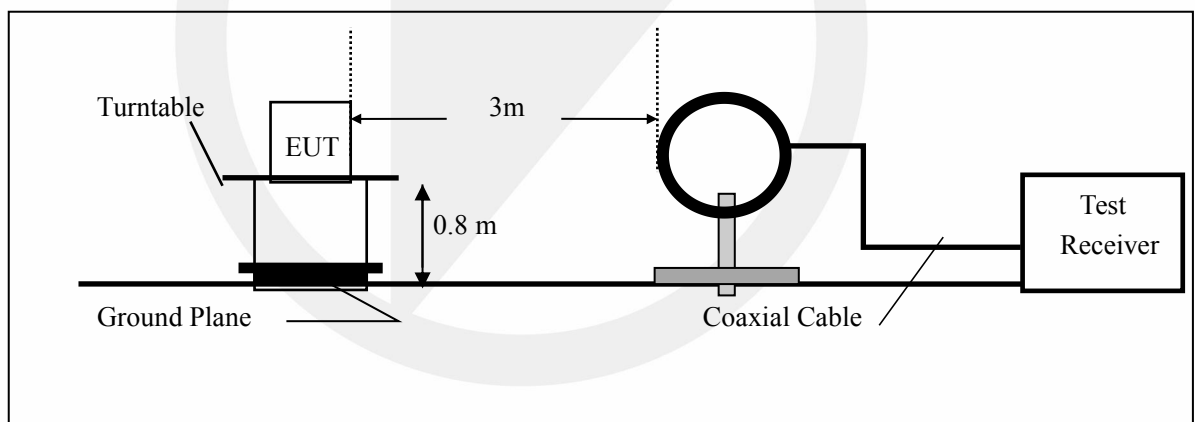
6. RADIATED EMISSION TEST

6.1.Measurement Procedure

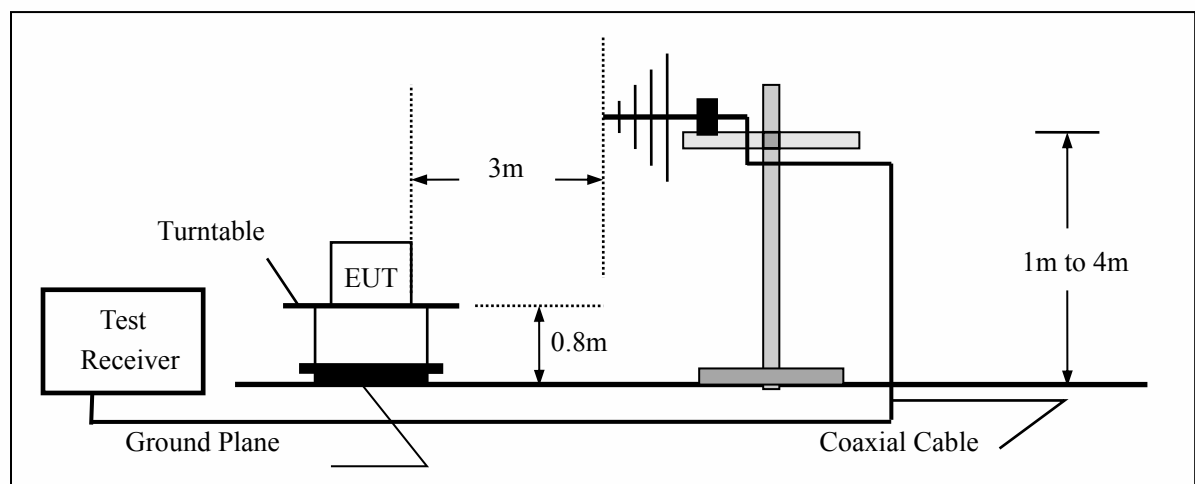
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
 Span = wide enough to fully capture the emission being measured
 RBW=200Hz for 9KHz to 150KHz,
 RBW=9kHz for 150KHz to 30MHz,
 RBW=120KHz for 30MHz to 1GHz
 VBW $\geq 3 \times$ RBW
 Sweep = auto
 Detector function = QP
 Trace = max hold

6.2.Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3.Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/22/2020	05/21/2021
Pre-Amplifier	HP	8447D	2944A07999	05/22/2020	05/21/2021
Bilog Antenna	Schwarzbeck	VULB9163	142	05/22/2020	05/21/2021
Loop Antenna	ARA	PLA-1030/B	1029	05/22/2020	05/21/2021
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/22/2020	05/21/2021
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/22/2020	05/21/2021
Cable	Schwarzbeck	AK9513	ACRX1	05/22/2020	05/21/2021
Cable	Rosenberger	N/A	FP2RX2	05/22/2020	05/21/2021
Cable	Schwarzbeck	AK9513	CRPX1	05/22/2020	05/21/2021
Cable	Schwarzbeck	AK9513	CRRX2	05/22/2020	05/21/2021

6.4.Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

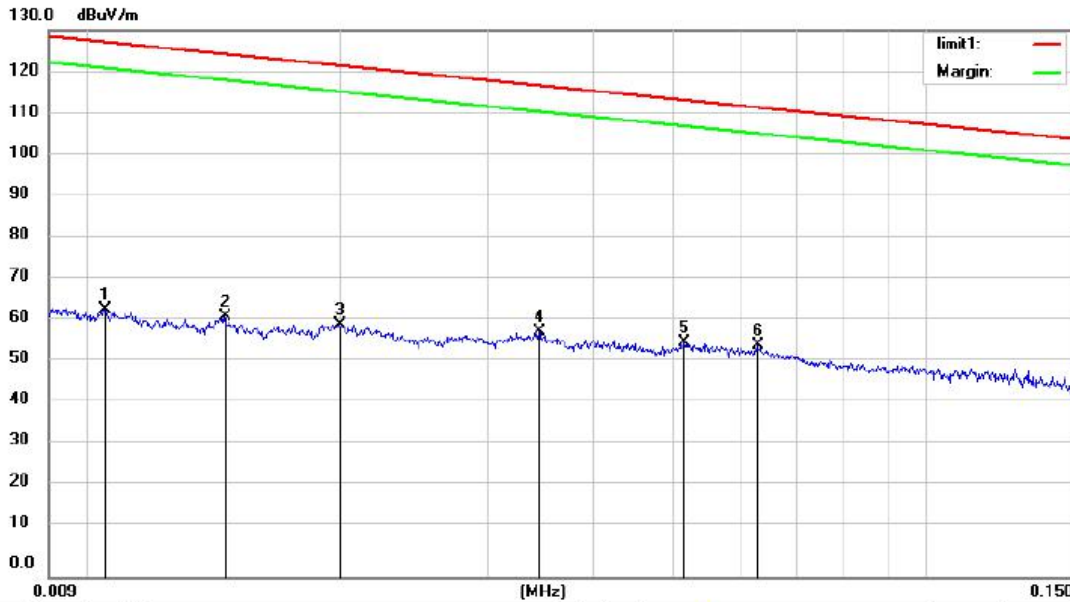
15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5.Measurement Result

9KHz-150KHz:

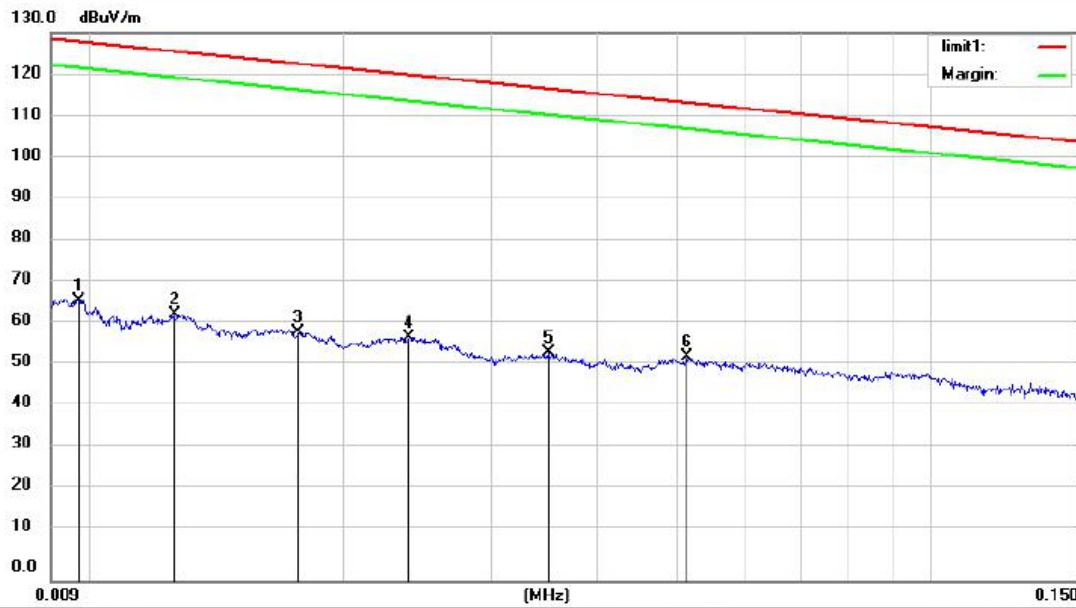


Site Chamber #1 Polarization: X Temperature: 23
 Limit: FCC PART 15.209 9K-30M Power: AC 120V/60Hz Humidity: 58 %
 Mode:Wireless Charging
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0105	70.65	-6.97	63.68	127.16	-63.48	QP			
2		0.0146	68.90	-6.96	61.94	124.30	-62.36	QP			
3		0.0200	66.89	-6.96	59.93	121.57	-61.64	QP			
4		0.0346	65.17	-6.90	58.27	116.81	-58.54	QP			
5		0.0516	62.55	-6.75	55.80	113.34	-57.54	QP			
6	*	0.0631	61.76	-6.80	54.96	111.59	-56.63	QP			

*:Maximum data x:Over limit !:over margin

Operator: Ccyf



Site: Chamber #1 Polarization: **Y** Temperature: 23
 Limit: FCC PART 15.209 9K-30M Power: AC 120V/60Hz Humidity: 58 %
 Mode: Wireless Charging
 Note:

Mode: Wireless Charging

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		0.0097	73.49	-6.94	66.55	127.85	-61.30	peak			
2		0.0126	70.08	-6.97	63.11	125.58	-62.47	peak			
3		0.0177	65.91	-6.96	58.95	122.63	-63.68	peak			
4		0.0240	64.80	-6.96	57.84	119.99	-62.15	peak			
5		0.0351	60.94	-6.90	54.04	116.69	-62.65	peak			
6	*	0.0513	59.97	-6.75	53.22	113.39	-60.17	peak			

*:Maximum data x:Over limit !:over margin

Operator: Ccyf

30MHz-1GHz:

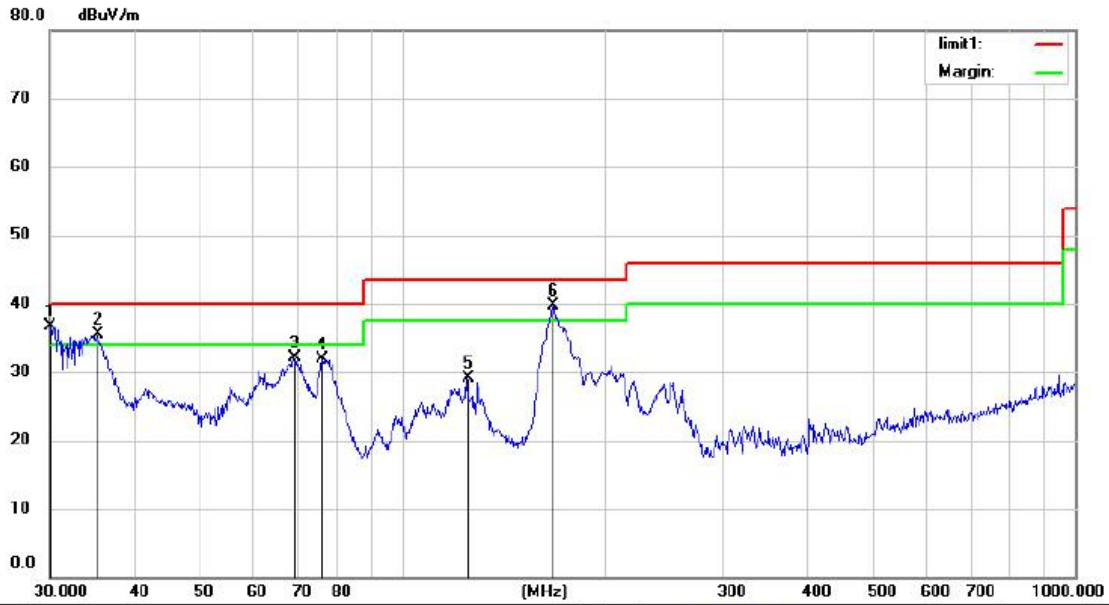


Site: Chamber #1 Polarization: **Horizontal** Temperature: 23
 Limit: FCC PART 15 C 3m(RE) Power: AC 120V/60Hz Humidity: 58 %
 Mode: Wireless Charging
 Note:
Mode: Wireless Charging

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		34.6385	47.70	-16.15	31.55	40.00	-8.45	QP		
2		56.1974	38.49	-16.27	22.22	40.00	-17.78	QP		
3		65.8031	41.27	-16.86	24.41	40.00	-15.59	QP		
4		76.2442	40.51	-18.96	21.55	40.00	-18.45	QP		
5		129.4677	48.62	-19.39	29.23	43.50	-14.27	QP		
6	*	174.4241	54.17	-18.12	36.05	43.50	-7.45	QP		

*:Maximum data x:Over limit !:over margin

Operator: Ccyf



Site: Chamber #1 Polarization: **Vertical** Temperature: 23
 Limit: FCC PART 15 C 3m(RE) Power: AC 120V/60Hz Humidity: 58 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	30.0000	55.54	-18.81	36.73	40.00	-3.27	QP		
2	!	35.2512	53.55	-18.13	35.42	40.00	-4.58	QP		
3		69.1141	49.58	-17.54	32.02	40.00	-7.98	QP		
4		76.2442	50.79	-18.96	31.83	40.00	-8.17	QP		
5		125.0068	48.33	-19.19	29.14	43.50	-14.36	QP		
6	!	167.2368	58.02	-18.27	39.75	43.50	-3.75	QP		

*:Maximum data x:Over limit !:over margin

Operator: Ccyf

7. ANTENNA REQUIREMENT

The EUT's antenna, permanent attached antenna, used an Induction coil, The antenna's gain meets the requirement.



*** End of Report ***

声明

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