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TEST REPORT

Application No.: SHEM1807006327CR

FCC ID: 2AMIN- WTX10

Applicant: ZIMI CORPORATION

Address of Applicant: Room A913, No.159 Chengjiang Road, Jiangyin City, Jiangsu Province,

214431, P.R.C

Manufacturer: ZIMI CORPORATION

Address of Manufacturer: Room A913, No.159 Chengjiang Road, Jiangyin City, Jiangsu Province,

214431, P.R.C

Factory: 1.Dongguan DBK Energy Technology Co.,Ltd.

2. Suzhou Lineprinting Wireless Communication Co., Ltd.

3. Shenzhen DBK Electronics Co., Ltd.

Address of Factory: 1.No.51 Zhangshen Middle Road, Xuzhen Community, Zhangmutou

Town, Dongguan, Guangdong, P.R. China.

2.Floor 6, Building 40 and Floor 8, Building 39, No. 18, Dongchang

Road, SIP, Suzhou, China.

3.Room No.208-1,308,404-408 in Building Five,2-4 Floor in Building

Three,No.8 Qinghua Road,Zhu Village,518109,Fucheng New

Community, Guanlan Street, Longhua District, Shenzhen City, Guangdong

Province, P.R. China.

Equipment Under Test (EUT):

EUT Name: ZMI LevPower X Qi Wireless Charger

Model No.: WTX10

Trade mark:

Standard(s): 47 CFR Part 18

Date of Receipt: 2018-07-31

Date of Test: 2018-07-31 to 2018-08-17

Date of Issue: 2018-08-24

Test Result: Pass*

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



Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record							
Version	Description	Date	Remark				
00	Original	2018-08-24	/				

Authorized for issue by:		
	Vincent Zhu	
	Vincent Zhu /Project Engineer	
	Parlam Zhan	
	Parlam /Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass
Radiated Emissions (Magnetic field Strength)(9kHz- 30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V 2A/9V 1.6A by USB Type-C Test voltage: AC 120V 60Hz for USB Type-C Cable: DC Cable 1m for USB Port Wireless Output: DC 5V, 5W or 9V, 10W

Operation frequency: 110-205 kHz

Antenna type: Inductive Loop Coil Antenna

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Load	Client	/	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission	3.2dB (9kHz to 150kHz)
I	at mains port using AMN	3.0dB (150kHz to 30MHz)
2	Conducted Emission	1.0 dP(0kHz to 20MHz)
	at mains port using VP	1.9 dB(9kHz to 30MHz)
3	Conducted Emission	2.4 dD/450kH= to 20MH=\
3	at telecommunication port using AAN	2.4 dB(150kHz to 30MHz)
4	Radiated Power	3.5dB
_	Dadiated emission	4.4dB (30MHz-1GHz)
5	Radiated emission	4.6dB (1GHz-6GHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

• FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

• Industry Canada (IC) - IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868,C-4336,T-12221,G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2017-12-20	2018-12-19			
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2017-12-20	2018-12-19			
Line impedance stabilization network	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19			
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19			
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2017-12-20	2018-12-19			
CE test Cable	/	/	CE01	2017-12-26	2018-12-25			

Radiated Emissions (30MHz-1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25		
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A		
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A		
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A		
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2017-02-28	2020-02-27		
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2018-07-22	2019-07-21		
Low Amplifier	CLAVIIO	BDLNA-0001- 412010	SHEM164-1	2017-08-22	2018-08-21		

Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25			
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A			
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A			
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A			
Loop antenna	Schwarzbeck - Mess- Elektronik	FMZB1519	SHEM135-1	2017-04-10	2020-04-09			
Low Amplifier	CLAVIIO	BDLNA-0001- 412010	SHEM164-1	2017-08-22	2018-08-21			

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2018-01-25	2019-01-24		
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2017-09-13	2018-09-12		
Digital Multimeter	FLUKE	17B	SHEM043-3	2017-09-11	2018-09-10		
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A		
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2017-12-20	2018-12-19		



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz 66dB(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average

0.5M-5MHz 56dB(μ V) quasi-peak, 46dB(μ V) average 5M-30MHz 60dB(μ V) quasi-peak, 50dB(μ V) average

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

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:Wireless charging mode 1_Keep the load charging via EUT, the load shall be

set at empty load respectively.(DC5V 0W).

b:Wireless charging mode 2_Keep the load charging via EUT, the load shall be

set at half load respectively.(DC5V 2.5W)

c:Wireless charging mode 3_Keep the load charging via EUT, the load shall be

set at full load respectively.(DC 5V 5W)

d:Wireless charging mode 4_Keep the load charging via EUT, the load shall be

set at empty load respectively.(DC9V 0W).

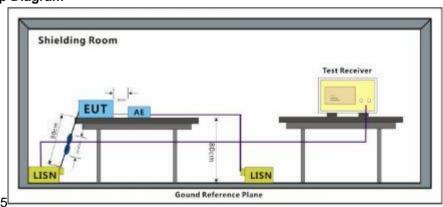
e:Wireless charging mode 5_Keep the load charging via EUT, the load shall be

set at half load respectively.(DC9V 5W)

f:Wireless charging mode 6_Keep the load charging via EUT, the load shall be

set at full load respectively.(DC 9V 10W)

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

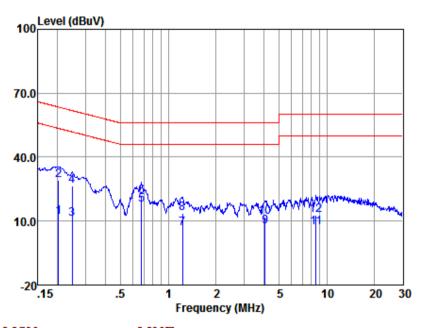
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:a; Line:Live Line



LISN : LINE EUT/Project No : 6327CR

Test mode : a

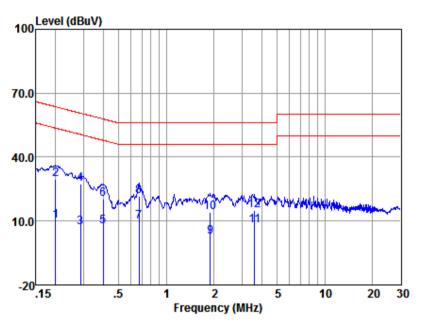
	Freq	Read	LISN	Cable	Emission		0ver	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.20	1.88	0.05	9.83	11.76	53.54	-41.78	Average
2	0.20	19.11	0.05	9.83	28.99	63.54	-34.55	QP
3	0.25	1.07	0.05	9.85	10.97	51.86	-40.89	Average
4	0.25	16.52	0.05	9.85	26.42	61.86	-35.44	QP
5	0.68	7.56	0.04	9.85	17.45	46.00	-28.55	Average
6	0.68	11.81	0.04	9.85	21.70	56.00	-34.30	QP
7	1.23	-3.23	0.05	9.81	6.63	46.00	-39.37	Average
8	1.23	3.58	0.05	9.81	13.44	56.00	-42.56	QP
9	4.09	-2.61	0.07	9.88	7.34	46.00	-38.66	Average
10	4.09	1.98	0.07	9.88	11.93	56.00	-44.07	QP
11	8.59	-3.12	0.17	9.88	6.93	50.00	-43.07	Average
12	8.59	2.69	0.17	9.88	12.74	60.00	-47.26	QP



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Mode:a; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 6327CR

Test mode : a

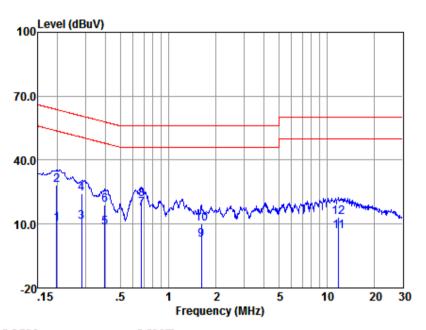
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	0.24	0.06	9.83	10.13	53.62	-43.49	Average
2	0.20	19.58	0.06	9.83	29.47	63.62	-34.15	QP
3	0.29	-2.69	0.06	9.85	7.22	50.59	-43.37	Average
4	0.29	17.27	0.06	9.85	27.18	60.59	-33.41	QP
5	0.40	-2.36	0.05	9.85	7.54	47.86	-40.32	Average
6	0.40	10.32	0.05	9.85	20.22	57.86	-37.64	QP
7	0.67	-0.06	0.05	9.85	9.84	46.00	-36.16	Average
8	0.67	11.85	0.05	9.85	21.75	56.00	-34.25	QP
9	1.90	-7.34	0.06	9.89	2.61	46.00	-43.39	Average
10	1.90	4.17	0.06	9.89	14.12	56.00	-41.88	QP
11	3.60	-1.94	0.07	9.91	8.04	46.00	-37.96	Average
12	3.60	4.85	0.07	9.91	14.83	56.00	-41.17	QP



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Mode:b; Line:Live Line



LISN : LINE EUT/Project No : 6327CR

Test mode : b

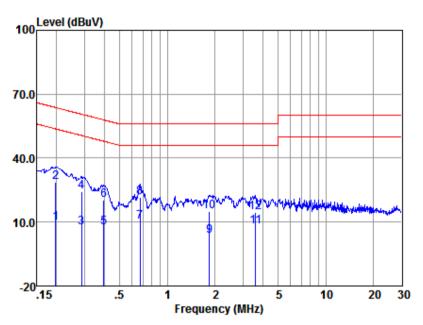
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	0.43	0.05	9.83	10.31	53.71	-43.40	Average
2	0.20	18.30	0.05	9.83	28.18	63.71	-35.53	QP
3	0.28	1.10	0.05	9.85	11.00	50.72	-39.72	Average
4	0.28	14.22	0.05	9.85	24.12	60.72	-36.60	QP
5	0.40	-1.52	0.05	9.85	8.38	47.95	-39.57	Average
6	0.40	9.19	0.05	9.85	19.09	57.95	-38.86	QP
7	0.68	7.51	0.04	9.85	17.40	46.00	-28.60	Average
8	0.68	11.75	0.04	9.85	21.64	56.00	-34.36	QP
9	1.62	-7.34	0.05	9.89	2.60	46.00	-43.40	Average
10	1.62	0.17	0.05	9.89	10.11	56.00	-45.89	QP
11	11.87	-3.74	0.21	9.97	6.44	50.00	-43.56	Average
12	11.87	3.03	0.21	9.97	13.21	60.00	-46.79	QP



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Mode:b; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 6327CR

Test mode : b

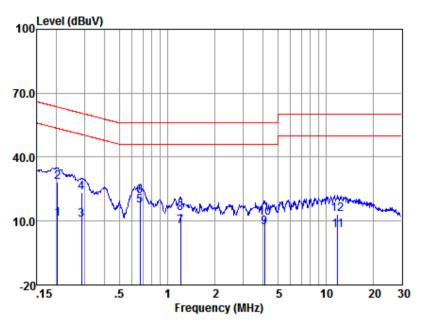
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	-0.24	0.06	9.83	9.65	53.71	-44.06	Average
2	0.20	18.81	0.06	9.83	28.70	63.71	-35.01	QP
3	0.29	-2.63	0.06	9.85	7.28	50.63	-43.35	Average
4	0.29	14.46	0.06	9.85	24.37	60.63	-36.26	QP
5	0.40	-2.32	0.05	9.85	7.58	47.90	-40.32	Average
6	0.40	10.43	0.05	9.85	20.33	57.90	-37.57	QP
7	0.67	0.02	0.05	9.85	9.92	46.00	-36.08	Average
8	0.67	11.70	0.05	9.85	21.60	56.00	-34.40	QP
9	1.85	-6.61	0.06	9.89	3.34	46.00	-42.66	Average
10	1.85	4.90	0.06	9.89	14.85	56.00	-41.15	QP
11	3.60	-2.02	0.07	9.91	7.96	46.00	-38.04	Average
12	3.60	4.63	0.07	9.91	14.61	56.00	-41.39	QP



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Mode:c; Line:Live Line



LISN : LINE EUT/Project No : 6327CR

Test mode : c

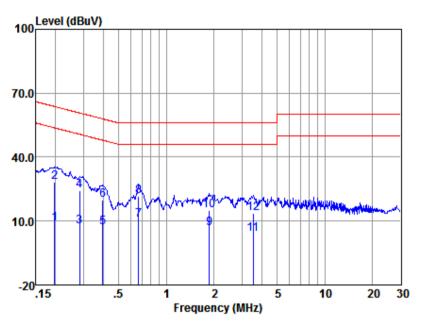
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	1.21	0.05	9.83	11.09	53.54	-42.45	Average
2	0.20	18.28	0.05	9.83	28.16	63.54	-35.38	QP
3	0.29	0.50	0.05	9.85	10.40	50.59	-40.19	Average
4	0.29	13.68	0.05	9.85	23.58	60.59	-37.01	QP
5	0.67	7.17	0.04	9.85	17.06	46.00	-28.94	Average
6	0.67	11.66	0.04	9.85	21.55	56.00	-34.45	QP
7	1.21	-2.54	0.05	9.82	7.33	46.00	-38.67	Average
8	1.21	3.96	0.05	9.82	13.83	56.00	-42.17	QP
9	4.11	-2.73	0.07	9.87	7.21	46.00	-38.79	Average
10	4.11	1.67	0.07	9.87	11.61	56.00	-44.39	QP
11	11.93	-4.35	0.21	9.97	5.83	50.00	-44.17	Average
12	11.93	2.94	0.21	9.97	13.12	60.00	-46.88	QP



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Mode:c; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 6327CR

Test mode : c

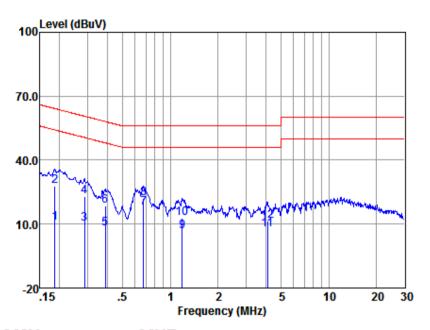
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	-0.98	0.06	9.83	8.91	53.71	-44.80	Average
2	0.20	18.41	0.06	9.83	28.30	63.71	-35.41	QΡ
3	0.28	-2.64	0.06	9.85	7.27	50.72	-43.45	Average
4	0.28	14.55	0.06	9.85	24.46	60.72	-36.26	QP
5	0.40	-3.01	0.05	9.85	6.89	47.95	-41.06	Average
6	0.40	9.88	0.05	9.85	19.78	57.95	-38.17	QP
7	0.67	0.57	0.05	9.85	10.47	46.00	-35.53	Average
8	0.67	11.63	0.05	9.85	21.53	56.00	-34.47	QP
9	1.87	-3.61	0.06	9.90	6.35	46.00	-39.65	Average
10	1.87	5.12	0.06	9.90	15.08	56.00	-40.92	QP
11	3.55	-6.15	0.07	9.91	3.83	46.00	-42.17	Average
12	3.55	3.67	0.07	9.91	13.65	56.00	-42.35	QP



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Mode:d; Line:Live Line



LISN : LINE EUT/Project No : 6327CR

Test mode : d

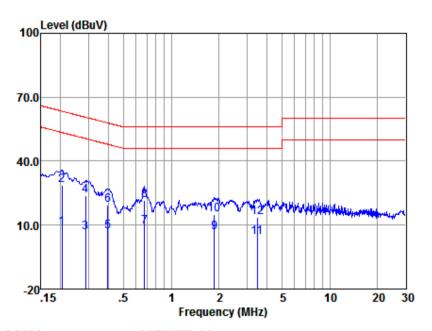
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.19	0.56	0.05	9.83	10.44	54.20	-43.76	Average
2	0.19	18.12	0.05	9.83	28.00	64.20	-36.20	QP
3	0.29	0.40	0.05	9.85	10.30	50.59	-40.29	Average
4	0.29	13.13	0.05	9.85	23.03	60.59	-37.56	QP
5	0.39	-1.81	0.05	9.85	8.09	48.12	-40.03	Average
6	0.39	8.55	0.05	9.85	18.45	58.12	-39.67	QP
7	0.68	7.53	0.04	9.85	17.42	46.00	-28.58	Average
8	0.68	12.16	0.04	9.85	22.05	56.00	-33.95	QP
9	1.19	-3.51	0.05	9.82	6.36	46.00	-39.64	Average
10	1.19	2.92	0.05	9.82	12.79	56.00	-43.21	QP
11	4.11	-2.48	0.07	9.87	7.46	46.00	-38.54	Average
12	4.11	1.41	0.07	9.87	11.35	56.00	-44.65	QP



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Mode:d; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 6327CR

Test mode : d

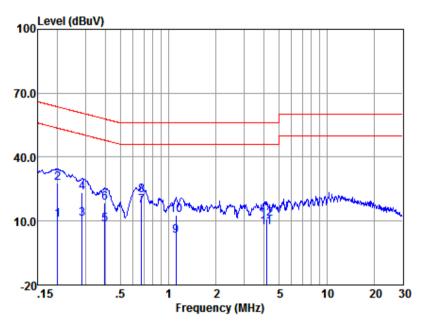
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	-0.98	0.06	9.83	8.91	53.45	-44.54	Average
2	0.20	18.69	0.06	9.83	28.58	63.45	-34.87	QP
3	0.29	-3.39	0.06	9.85	6.52	50.59	-44.07	Average
4	0.29	13.76	0.06	9.85	23.67	60.59	-36.92	QP
5	0.40	-2.87	0.05	9.85	7.03	47.95	-40.92	Average
6	0.40	9.65	0.05	9.85	19.55	57.95	-38.40	QP
7	0.68	-0.61	0.05	9.85	9.29	46.00	-36.71	Average
8	0.68	11.58	0.05	9.85	21.48	56.00	-34.52	QP
9	1.87	-3.45	0.06	9.90	6.51	46.00	-39.49	Average
10	1.87	5.02	0.06	9.90	14.98	56.00	-41.02	QP
11	3.49	-5.51	0.07	9.93	4.49	46.00	-41.51	Average
12	3.49	3.78	0.07	9.93	13.78	56.00	-42.22	QP



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Mode:e; Line:Live Line



LISN : LINE EUT/Project No : 6327CR

Test mode : e

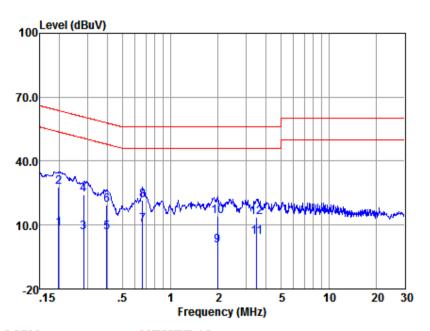
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	0.62	0.05	9.83	10.50	53.62	-43.12	Average
2	0.20	17.99	0.05	9.83	27.87	63.62	-35.75	QP
3	0.28	0.90	0.05	9.85	10.80	50.68	-39.88	Average
4	0.28	13.68	0.05	9.85	23.58	60.68	-37.10	QP
5	0.40	-1.38	0.05	9.85	8.52	47.95	-39.43	Average
6	0.40	8.78	0.05	9.85	18.68	57.95	-39.27	QP
7	0.68	7.28	0.04	9.85	17.17	46.00	-28.83	Average
8	0.68	12.01	0.04	9.85	21.90	56.00	-34.10	QP
9	1.12	-6.64	0.05	9.83	3.24	46.00	-42.76	Average
10	1.12	2.87	0.05	9.83	12.75	56.00	-43.25	QP
11	4.18	-2.89	0.07	9.89	7.07	46.00	-38.93	Average
12	4.18	1.13	0.07	9.89	11.09	56.00	-44.91	QP



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Mode:e; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 6327CR

Test mode : e

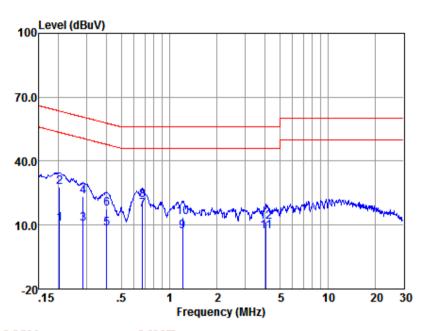
	Freq	Read	LISN	Cable	Emission	0ver		
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.20	-1.42	0.06	9.83	8.47	53.71	-45.24	Average
2	0.20	17.93	0.06	9.83	27.82	63.71	-35.89	QP
3	0.28	-3.36	0.06	9.85	6.55	50.72	-44.17	Average
4	0.28	14.27	0.06	9.85	24.18	60.72	-36.54	QP
5	0.40	-3.17	0.05	9.85	6.73	47.95	-41.22	Average
6	0.40	9.69	0.05	9.85	19.59	57.95	-38.36	QP
7	0.67	0.40	0.05	9.85	10.30	46.00	-35.70	Average
8	0.67	11.52	0.05	9.85	21.42	56.00	-34.58	QP
9	1.99	-9.44	0.06	9.86	0.48	46.00	-45.52	Average
10	1.99	4.28	0.06	9.86	14.20	56.00	-41.80	QP
11	3.51	-5.75	0.07	9.93	4.25	46.00	-41.75	Average
12	3.51	3.73	0.07	9.93	13.73	56.00	-42.27	QP



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Mode:f; Line:Live Line



LISN : LINE EUT/Project No : 6327CR

Test mode : f

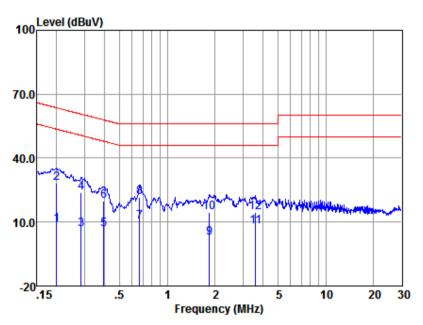
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	0.48	0.05	9.83	10.36	53.54	-43.18	Average
2	0.20	17.75	0.05	9.83	27.63	63.54	-35.91	QP
3	0.28	0.71	0.05	9.85	10.61	50.68	-40.07	Average
4	0.28	13.60	0.05	9.85	23.50	60.68	-37.18	QP
5	0.40	-1.73	0.05	9.85	8.17	47.81	-39.64	Average
6	0.40	7.96	0.05	9.85	17.86	57.81	-39.95	QP
7	0.68	7.46	0.04	9.85	17.35	46.00	-28.65	Average
8	0.68	11.79	0.04	9.85	21.68	56.00	-34.32	QP
9	1.21	-2.83	0.05	9.82	7.04	46.00	-38.96	Average
10	1.21	3.90	0.05	9.82	13.77	56.00	-42.23	QP
11	4.09	-2.80	0.07	9.88	7.15	46.00	-38.85	Average
12	4.09	1.63	0.07	9.88	11.58	56.00	-44.42	QP



Report No.: SHEM180800632701

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Mode:f; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 6327CR

Test mode : f

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.20	-1.21	0.06	9.83	8.68	53.62	-44.94	Average
2	0.20	18.43	0.06	9.83	28.32	63.62	-35.30	QP
3	0.28	-3.27	0.06	9.85	6.64	50.68	-44.04	Average
4	0.28	13.88	0.06	9.85	23.79	60.68	-36.89	QP
5	0.40	-3.27	0.05	9.85	6.63	47.95	-41.32	Average
6	0.40	9.74	0.05	9.85	19.64	57.95	-38.31	QP
7	0.67	0.39	0.05	9.85	10.29	46.00	-35.71	Average
8	0.67	11.72	0.05	9.85	21.62	56.00	-34.38	QP
9	1.85	-7.19	0.06	9.89	2.76	46.00	-43.24	Average
10	1.85	4.60	0.06	9.89	14.55	56.00	-41.45	QP
11	3.60	-2.27	0.07	9.91	7.71	46.00	-38.29	Average
12	3.60	4.63	0.07	9.91	14.61	56.00	-41.39	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Wireless charging mode 1_Keep the load charging via EUT, the load shall be

set at empty load respectively.(DC5V 0W).

b:Wireless charging mode 2_Keep the load charging via EUT, the load shall be

set at half load respectively.(DC5V 2.5W)

c:Wireless charging mode 3_Keep the load charging via EUT, the load shall be

set at full load respectively.(DC 5V 5W)

d:Wireless charging mode 4_Keep the load charging via EUT, the load shall be

set at empty load respectively.(DC9V 0W).

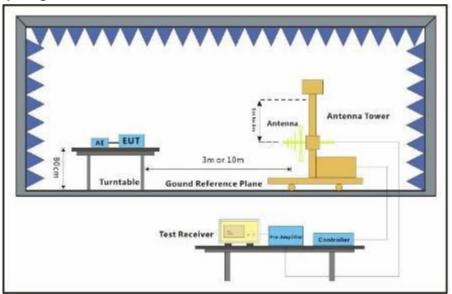
e:Wireless charging mode 5 Keep the load charging via EUT, the load shall be

set at half load respectively.(DC9V 5W)

f:Wireless charging mode 6_Keep the load charging via EUT, the load shall be

set at full load respectively.(DC 9V 10W)

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

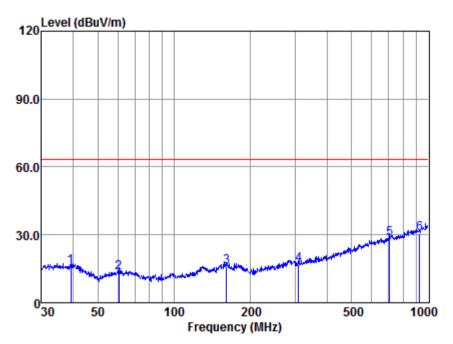
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL

EUT/Project :6327CR

Test mode :a

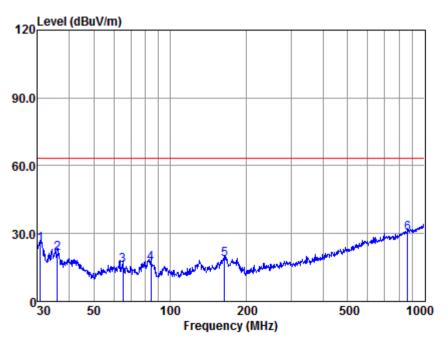
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	39.16	28.07	16.23	1.28	29.50	16.08	63.50	-47.42	QP
2	60.49	28.79	12.55	1.59	29.50	13.43	63.50	-50.07	QP
3	160.35	29.62	13.02	2.67	29.43	15.88	63.50	-47.62	QP
4	308.91	28.92	13.39	3.74	29.26	16.79	63.50	-46.71	QP
5	706.70	30.91	20.33	6.04	28.80	28.48	63.50	-35.02	QP
		28.72	22.99	6.90	28.23	30.38	63.50	-33.12	QP



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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :6327CR Test mode :a

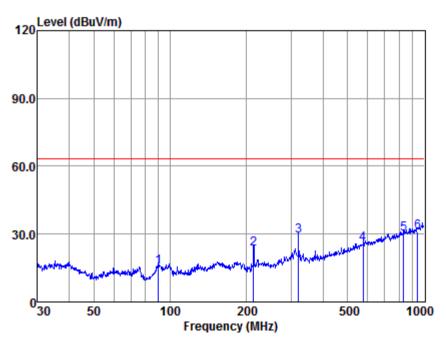
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	30.75	38.00	15.39	1.21	29.50	25.10	63.50	-38.40	QP
2	36.00	33.72	15.93	1.24	29.50	21.39	63.50	-42.11	QP
3	65.11	31.86	11.97	1.65	29.50	15.98	63.50	-47.52	QP
4	83.82	36.41	8.04	1.96	29.50	16.91	63.50	-46.59	QP
5	163.76	32.63	12.52	2.69	29.43	18.41	63.50	-45.09	QP
6	860.04	29.50	22.39	6.65	28.40	30.14	63.50	-33.36	QP



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Mode:b; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :b

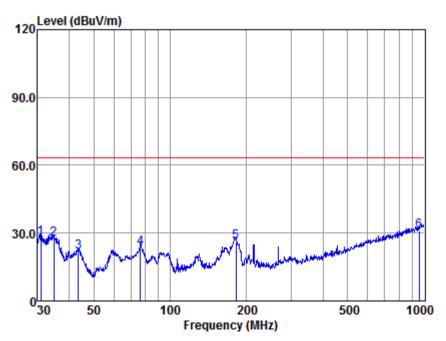
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	89.90	34.82	8.10	1.99	29.50	15.41	63.50	-48.09	QP
2	213.02	39.52	9.99	3.13	29.38	23.26	63.50	-40.24	QP
3	319.94	40.92	13.62	3.77	29.25	29.06	63.50	-34.44	QP
4	576.64	30.42	18.93	5.35	28.98	25.72	63.50	-37.78	QP
5	830.40	29.77	22.16	6.58	28.45	30.06	63.50	-33.44	QP
6	945.44	28.97	23.21	6.94	28.21	30.91	63.50	-32.59	QP



Report No.: SHEM180800632701

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Mode:b; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :6327CR Test mode :b

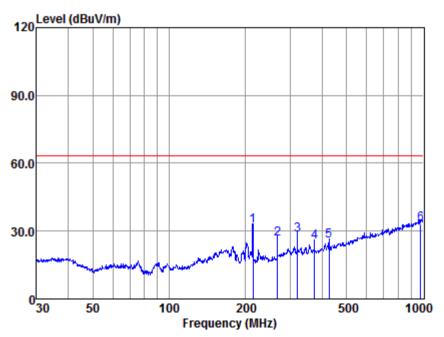
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	30.96	40.69	15.41	1.21	29.50	27.81	63.50	-35.69	QP
2	34.88	39.84	15.82	1.23	29.50	27.39	63.50	-36.11	QP
3	43.51	35.51	14.16	1.36	29.50	21.53	63.50	-41.97	QP
4	76.24	41.96	9.25	1.85	29.50	23.56	63.50	-39.94	QP
5	181.28	41.15	11.69	2.86	29.41	26.29	63.50	-37.21	QP
6	955.44	28.88	23.32	6.97	28.18	30.99	63.50	-32.51	QP



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Mode:c; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :c

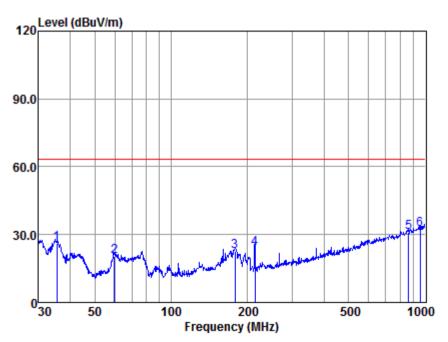
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	213.76	48.39	10.02	3.13	29.38	32.16	63.50	-31.34	QP
2	266.61	40.50	12.09	3.49	29.30	26.78	63.50	-36.72	QP
3	319.94	40.40	13.62	3.77	29.25	28.54	63.50	-34.96	QP
4	373.31	35.69	14.64	4.14	29.20	25.27	63.50	-38.23	QP
5	426.52	34.54	15.70	4.46	29.15	25.55	63.50	-37.95	QP
6	979.18	30.50	23.58	7.04	28.13	32.99	63.50	-30.51	OP



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Mode:c; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :6327CR Test mode :c

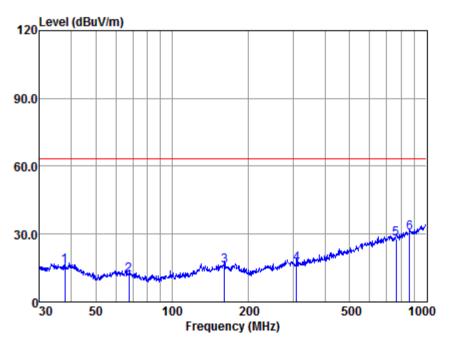
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	35.50	38.32	15.89	1.23	29.50	25.94	63.50	-37.56	QP
2	59.65	35.72	12.52	1.58	29.50	20.32	63.50	-43.18	QP
3	178.76	37.14	11.86	2.84	29.42	22.42	63.50	-41.08	QP
4	213.76	40.18	10.02	3.13	29.38	23.95	63.50	-39.55	QP
5	863.06	30.13	22.42	6.65	28.40	30.80	63.50	-32.70	QP
6	955.44	30.05	23.32	6.97	28.18	32.16	63.50	-31.34	QP



Report No.: SHEM180800632701

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Mode:d; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :d

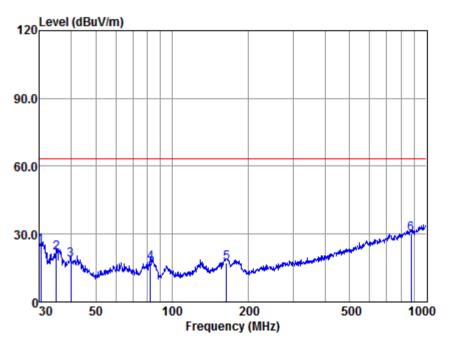
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	37.81	28.21	16.10	1.26	29.50	16.07	63.50	-47.43	QP
2	67.68	28.15	11.67	1.71	29.50	12.03	63.50	-51.47	QP
3	160.91	29.90	12.93	2.67	29.43	16.07	63.50	-47.43	QP
4	308.91	29.14	13.39	3.74	29.26	17.01	63.50	-46.49	QP
5	763.38	29.12	21.32	6.26	28.64	28.06	63.50	-35.44	QP
6	863.06	29.68	22.42	6.65	28.40	30.35	63.50	-33.15	QP



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Mode:d; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :6327CR

Test mode :d

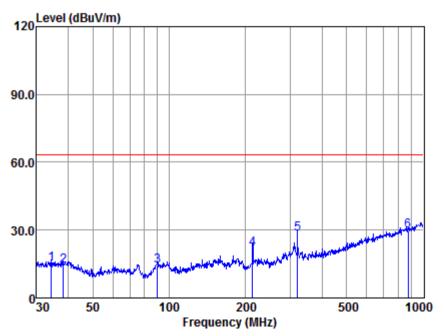
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	30.32	37.64	15.34	1.18	29.50	24.66	63.50	-38.84	QP
2	35.00	34.26	15.84	1.23	29.50	21.83	63.50	-41.67	QP
3	39.85	30.48	16.29	1.29	29.50	18.56	63.50	-44.94	QP
4	82.07	36.98	8.02	1.95	29.50	17.45	63.50	-46.05	QP
5	163.76	31.42	12.52	2.69	29.43	17.20	63.50	-46.30	QP
6	875.25	29.22	22.51	6.69	28.37	30.05	63.50	-33.45	QP



Report No.: SHEM180800632701

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Mode:e; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :e

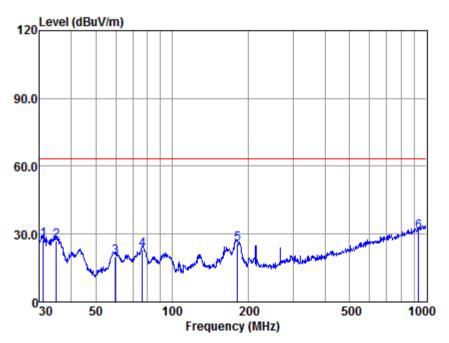
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
34.28	27.37	15.76	1.22	29.50	14.85	63.50	-48.65	QP
38.35	26.27	16.15	1.27	29.50	14.19	63.50	-49.31	QP
89.90	33.45	8.10	1.99	29.50	14.04	63.50	-49.46	QP
213.02	38.15	9.99	3.13	29.38	21.89	63.50	-41.61	QP
319.94	40.08	13.62	3.77	29.25	28.22	63.50	-35.28	QP
875 25	28 64	22 51	6 69	28 37	29 47	63 50	-34 03	OP



Report No.: SHEM180800632701

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Mode:e; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :6327CR

Test mode :e

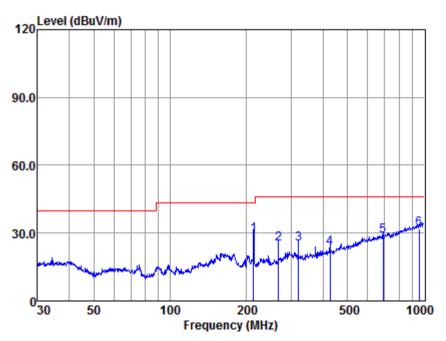
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	31.07	40.42	15.42	1.22	29.50	27.56	63.50	-35.94	QP
2	35.00	39.63	15.84	1.23	29.50	27.20	63.50	-36.30	QP
3	59.86	35.39	12.56	1.58	29.50	20.03	63.50	-43.47	QP
4	76.24	41.28	9.25	1.85	29.50	22.88	63.50	-40.62	QP
5	180.65	40.33	11.79	2.86	29.41	25.57	63.50	-37.93	QP
6	935.55	29.01	23.10	6.90	28.23	30.78	63.50	-32.72	QP



Report No.: SHEM180800632701

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Mode:f; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :f

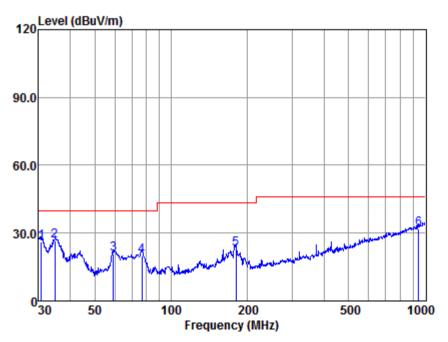
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	213.02	45.68	9.99	3.13	29.38	29.42	43.50	-14.08	QP
2	266.61	38.87	12.09	3.49	29.30	25.15	46.00	-20.85	QP
3	319.94	36.98	13.62	3.77	29.25	25.12	46.00	-20.88	QP
4	426.52	32.27	15.70	4.46	29.15	23.28	46.00	-22.72	QP
5	689.56	31.42	20.13	5.97	28.81	28.71	46.00	-17.29	QP
6	958.79	29.80	23.36	6.97	28.18	31.95	46.00	-14.05	QP



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Mode:f; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :6327CR Test mode :f

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	30.85	39.10	15.40	1.21	29.50	26.21	40.00	-13.79	QP
2	34.88	39.22	15.82	1.23	29.50	26.77	40.00	-13.23	QP
3	59.23	36.13	12.45	1.58	29.50	20.66	40.00	-19.34	QP
4	76.51	38.58	9.16	1.87	29.50	20.11	40.00	-19.89	QP
5	180.02	37.70	11.90	2.86	29.41	23.05	43.50	-20.45	QP
6	945.44	30.07	23.21	6.94	28.21	32.01	46.00	-13.99	QP



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6.3 Radiated Emissions (Magnetic field Strength)(9kHz-30MHz)

Test Requirement: 47 CFR Part 18

Test Method: FCC OST/MP-5:1986

Frequency Range: 9kHz to 30MHz

Measurement Distance: 3m

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a:Wireless charging mode 1_Keep the load charging via EUT, the load shall be

set at empty load respectively.(DC5V 0W).

b:Wireless charging mode 2_Keep the load charging via EUT, the load shall be

set at half load respectively.(DC5V 2.5W)

c:Wireless charging mode 3_Keep the load charging via EUT, the load shall be

set at full load respectively.(DC 5V 5W)

d:Wireless charging mode 4_Keep the load charging via EUT, the load shall be

set at empty load respectively.(DC9V 0W).

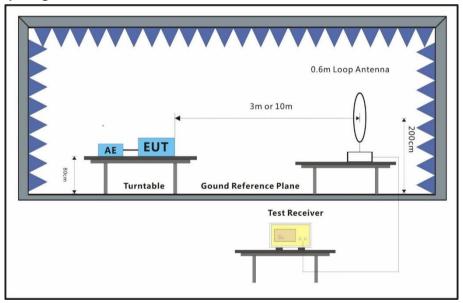
e:Wireless charging mode 5 Keep the load charging via EUT, the load shall be

set at half load respectively.(DC9V 5W)

f:Wireless charging mode 6_Keep the load charging via EUT, the load shall be

set at full load respectively.(DC 9V 10W)

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

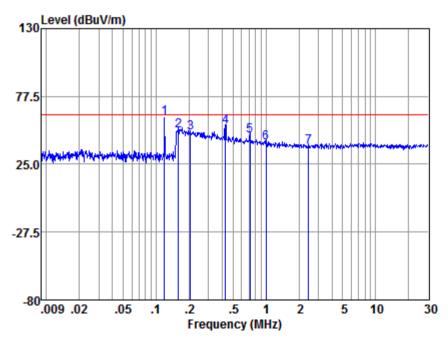
The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.



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Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :a

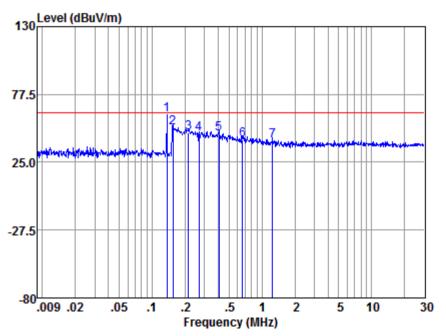
		Read	Antenna	Cable	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	d	dBuv/m	dBuv/n	ı dB	
1	0.119	29.66		0.19	60.78	63.50	-2.72	QP
2	0.159	19.95	30.99	0.23	51.17	63.50	-12.33	QP
3	0.206	17.88	31.03	0.24	49.15	63.50	-14.35	QP
4	0.428	22.47	31.17	0.26	53.90	63.50	-9.60	QP
5	0.713	15.79	31.15	0.24	47.18	63.50	-16.32	QP
6	1.002	10.30	31.10	0.33	41.73	63.50	-21.77	QP
7	2.447	7.71	30.62	0.34	38.67	63.50	-24.83	QP



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Mode:b; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :b

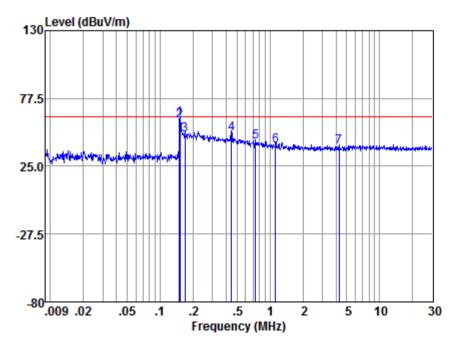
		Read	Antenna	Cable	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	d	dBuv/m	dBuv/n	n dB	
1	0.136	30.48	30.96	0.18	61.62	63.50	-1.88	QP
2	0.155	20.86	30.98	0.24	52.08	63.50	-11.42	QP
3	0.215	16.89	31.04	0.25	48.18	63.50	-15.32	QP
4	0.267	15.58	31.08	0.21	46.87	63.50	-16.63	QP
5	0.407	15.81	31.16	0.26	47.23	63.50	-16.27	QP
6	0.668	11.02	31.16	0.24	42.42	63.50	-21.08	QP
7	1.248	10.40	30.94	0.28	41.62	63.50	-21.88	QP



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Mode:c; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :c

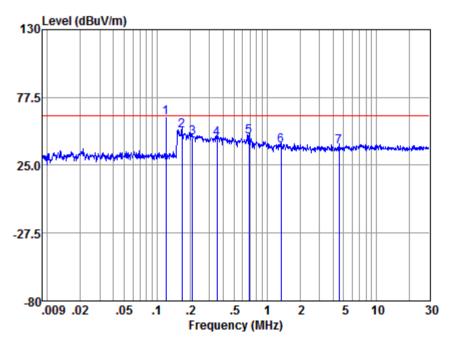
		Read	Antenna	Cable	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	d	dBuv/m	dBuv/m	dB	
1	0.149	30.86	30.97		62.08	63.50	-1.42	QP
2	0.151	29.04	30.98	0.24	60.26	63.50	-3.24	QP
3	0.168	18.41	31.00	0.23	49.64	63.50	-13.86	QP
4	0.445	18.72	31.18	0.26	50.16	63.50	-13.34	QP
5	0.742	12.37	31.14	0.25	43.76	63.50	-19.74	QP
6	1.123	9.79	31.02	0.27	41.08	63.50	-22.42	QP
7	4.247	8.77	30.68	0.46	39.91	63.50	-23.59	QP



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Mode:d; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :d

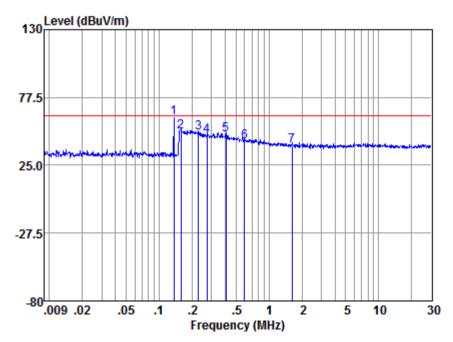
		Read	Antenna	Cable	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	d	dBuv/m	dBuv/n	n dB	
1	0.121	30.95	30.93	0.20	62.08	63.50	-1.42	QP
2	0.168	20.75	31.00	0.23	51.98	63.50	-11.52	QP
3	0.209	15.02	31.04	0.24	46.30	63.50	-17.20	QP
4	0.349	14.50	31.13	0.25	45.88	63.50	-17.62	QP
5	0.685	15.77	31.15	0.24	47.16	63.50	-16.34	QP
6	1.342	9.33	30.89	0.27	40.49	63.50	-23.01	QP
7	4.532	8.19	30.69	0.47	39.35	63.50	-24.15	QP



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Mode:e; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :e

		Read	Antenna	Cable	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	d	dBuv/m	dBuv/n	n dB	
1	0.136	30.48	30.96		61.62	63.50	-1.88	QP
2	0.158	19.76	30.98	0.23	50.97	63.50	-12.53	QP
3	0.229	18.56	31.05	0.25	49.86	63.50	-13.64	QP
4	0.274	16.92	31.09	0.21	48.22	63.50	-15.28	QP
5	0.407	17.10	31.16	0.26	48.52	63.50	-14.98	QP
6	0.596	12.13	31.17	0.27	43.57	63.50	-19.93	QP
7	1.618	9.17	30.75	0.28	40.20	63.50	-23.30	QP



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Mode:f; Polarization:Horizontal

1

2

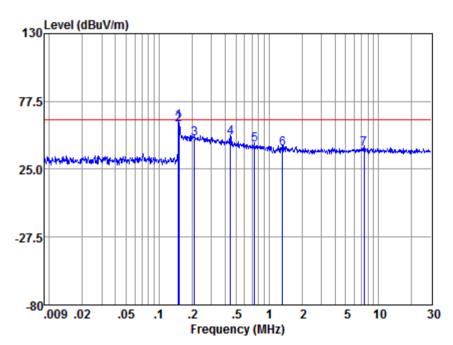
3

4

5

6

7



Antenna Polarity :HORIZONTAL EUT/Project :6327CR

Test mode :f

Antenna Cable Emission Limit Over Read Freq Level Factor Loss Level Line Limit Remark _____ ---------- -----MHz dBuv dB/m d dBuv/m dBuv/m dB 0.149 30.87 QP 30.97 0.25 62.09 63.50 -1.41 0.151 27.93 30.98 0.24 59.15 63.50 -4.35 QP 0.209 17.62 31.04 0.24 48.90 63.50 -14.60 QP 0.445 18.24 31.18 0.26 49.68 63.50 -13.82 QP 0.736 12.52 31.14 0.25 43.91 63.50 -19.59 QP 1.331 9.89 30.89 0.27 41.05 63.50 -22.45 QP 0.56 40.83 7.373 8.80 31.47 63.50 -22.67 QΡ



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -