

Report No.: SZEM201201276501

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TEST REPORT

Application No.: SZEM2012012765CR (SHEM2010009144CR)

FCC ID: 2AA7Y-MOSHIQI010

Applicant: AEVOE INC.

Address of Applicant: 3F, No. 42, Sec. 2, Zhongshan N. Rd., Zhongshan Dist., Taipei City 104,

Taiwan

Manufacturer: AEVOE INC.

Address of Manufacturer: 3F, No. 42, Sec. 2, Zhongshan N. Rd., Zhongshan Dist., Taipei City 104,

Taiwan

Factory: 1.PEI YING INDUSTRIAL CO., LTD

2.Lanto Electronic Ltd.

Address of Factory: 1.No. 7, Wuquan 1st Rd., Xinzhuang Dist., New Taipei City 242, Taiwan

(R.O.C.)

2. No 399, Baisheng Rd. Jinxi Town, Kunshan City, Jiangsu Province,

China 215324

Equipment Under Test (EUT):

EUT Name: Sette Q dual wireless charging pad **Model No.:** 99MO022272: 99MO022273¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: Moshi

Standard(s): 47 CFR Part 18

Date of Receipt: 2020-11-02

Date of Test: 2020-11-04 to 2020-12-03

Date of Issue: 2020-12-08

Test Result: Pass*

Keny Xu

Ceny. Ku

EMC Laboratory Manager



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



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Revision Record								
Version	Description	Date	Remark					
00	Original	2020-12-08	/					

Authorized for issue by:		
	Forychon	
	Foray Chen /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



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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 (Magnetic field Strength) (9kHz- 30MHz)	47 CFR Part 18	FCC OST/MP-5:1986	Class B	Pass					

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model 99MO022272 was tested since their differences were the model number and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply: Input: DC15V 2A by adapter

Output (USB): DC5V 1A (Max)

Wireless charging (Single):15W (DC9V 1.67A) Wireless charging (Dual):7.5W*2 (DC9V 0.83A)

Test voltage: AC 120V/60Hz
Serial Number: 25WBP20BP000G
Firmware Version: Moshi_Dual 10W_1208
Cable: USB Cable 100cm

Antenna Type: Inductive Loop Coil Antenna

Modulation Type: Load Modulation
Operation Frequency: 110kHz to 130kHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	moshi	99MO022115	/
Mobile Phoe	Apple	iPnone 12	
Mobile Phoe	HUAWEI	Mate 20 Pro	
Load Resistor	/	/	/

Parameter of Adapter:

A donto:	Rated Input	AC100V-240V 50/60Hz 1000mA
Adapter	Rated Output	5V,3A;9V,3A;15V,2A



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
4	Conducted Emission	2.6dB (9kHz to 150kHz)
ı	at mains port using AMN	2.4dB (150kHz to 30MHz)
2	Radiated Emission	4.5dB (30MHz-1GHz)

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

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

Abnormalities from Standard Conditions

None



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Equipment List

	Conducted Emission										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)					
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12					
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22					
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31					
4	EMI Test Receiver(9kHz- 3GHz)	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23					
5	Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
6	Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09					

	LOOP					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	Shielding Room	AUDIX	N/A	SEM001-08	2019-06-13	2022-06-12
2	EMI Test Receiver (9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2020-03-24	2021-03-23
3	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2020-04-09	2023-04-08
4	Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
5	Coaxial Cable	SGS	N/A	SEM033-01	2020-07-10	2021-07-09

	General used equipment									
Item	Test Equipment	Manufacturer	Manufacturer Model No.		Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)				
1	Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2020-09-25	2021-09-24				
2	Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-25	2021-09-24				
3	Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-25	2021-09-24				
4	Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06				



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Emission Test Results 6

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(µV)-56dB(µV) quasi-peak, 56dB(µV)-46dB(µV) average

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

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

6.1.1 E.U.T. Operation

Operating Environment:

24 Atmospheric Pressure: 1010 mbar Temperature: °C % RH Humidity: 48

a:Left Wireless charging +USB A charging mode _Keep the load charging via Pre-test these

modes to find EUT, wireless charging load shall be set at full/half/empty load

the worst case: respectively.(15W/7.5W/0W)

b:Right Wireless charging mode +USB A charging mode Keep the load charging

via EUT, wireless charging load shall be set at full/half/empty load

respectively.(15W/7.5W/0W)

c:Dual Wireless charging mode +USB A charging mode _Keep the load charging

via EUT, wireless charging load shall be set at half load

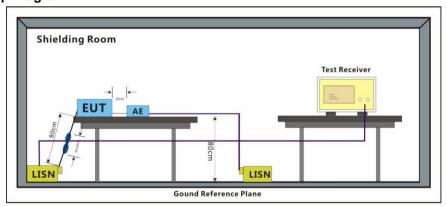
respectively.(15W/7.5W/0W)

The worst case for final test:

c:Dual Wireless charging mode+ +USB A charging mode _Keep the load charging

via EUT, wireless charging load shall be set at full load respectively.(15W)

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.

- 1.Result (dBuV) = Reading(dBuV) + Correction Factor (dB)
- 2.Correction Factor (dB)=LISN Factor (dB)+Cable Loss (dB)



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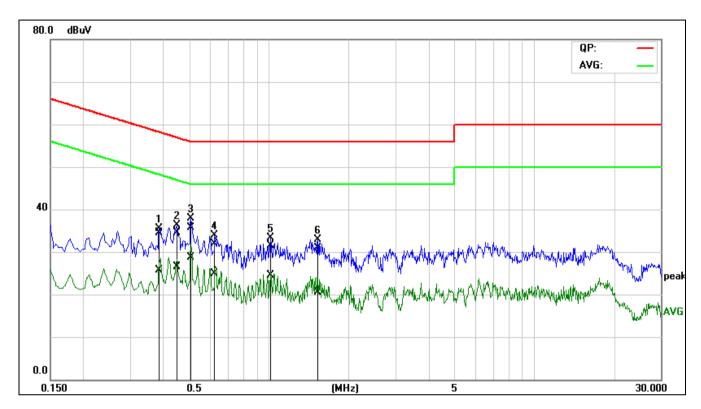
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Mode:c; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.3860	15.09	6.19	19.42	34.51	25.61	58.15	48.15	-23.64	-22.54	Pass
2	0.4500	15.06	7.13	19.45	34.51	26.58	56.87	46.88	-22.36	-20.30	Pass
3*	0.5100	16.31	9.17	19.47	35.78	28.64	56.00	46.00	-20.22	-17.36	Pass
4	0.6260	12.39	5.39	19.48	31.87	24.87	56.00	46.00	-24.13	-21.13	Pass
5	1.0180	12.01	4.93	19.58	31.59	24.51	56.00	46.00	-24.41	-21.49	Pass
6	1.5300	11.33	0.81	19.63	30.96	20.44	56.00	46.00	-25.04	-25.56	Pass



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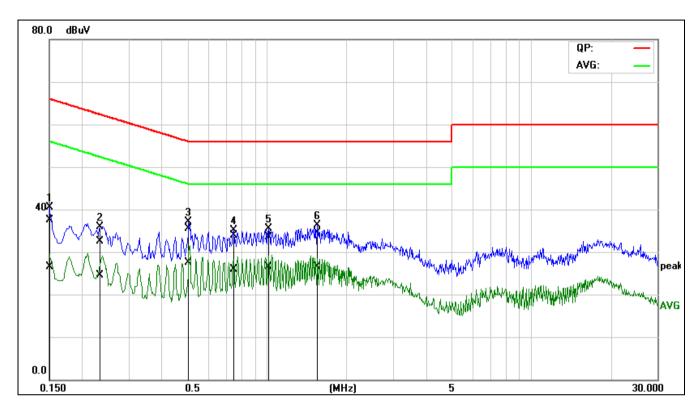
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Mode:c; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	18.14	7.19	19.40	37.54	26.59	65.99	56.00	-28.45	-29.41	Pass
2	0.2340	13.15	5.14	19.39	32.54	24.53	62.30	52.31	-29.76	-27.78	Pass
3*	0.5060	16.02	8.12	19.39	35.41	27.51	56.00	46.00	-20.59	-18.49	Pass
4	0.7500	14.37	6.36	19.48	33.85	25.84	56.00	46.00	-22.15	-20.16	Pass
5	1.0140	13.98	6.95	19.56	33.54	26.51	56.00	46.00	-22.46	-19.49	Pass
6	1.5540	14.99	6.91	19.60	34.59	26.51	56.00	46.00	-21.41	-19.49	Pass



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6.2 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

Limit:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 ¹ 300

¹Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.

Frequency band in which device	Range of frequency measurements						
operates (MHz)	Lowest frequency	Highest frequency					
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz	30 MHz.					
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz	400 MHz.					
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower	Tenth harmonic or 1,000 MHz, whichever is higher.					
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower	Tenth harmonic.					

6.2.1 E.U.T. Operation

Operating Environment:

Temperature 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Pre-test a:Left Wireless charging +USB A charging mode _Keep the load charging via EUT, these modes wireless charging load shall be set at full/half/empty load

to find the respectively.(15W/7.5W/0W)

worst case: b:Right Wireless charging mode +USB A charging mode _Keep the load charging via

EUT. wireless charging load shall be set at full/half/empty load

respectively.(15W/7.5W/0W)

c:Dual Wireless charging mode +USB A charging mode _Keep the load charging via EUT, wireless charging load shall be set at half load respectively.(15W/7.5W/0W)

The worst case for final test:

a:Left Wireless charging +USB A charging mode _Keep the load charging via EUT,

wireless charging load shall be set at full load respectively.(15W)

b:Right Wireless charging mode +USB A charging mode _Keep the load charging via EUT, wireless charging load shall be set at full load respectively.(15W)

c:Dual Wireless charging mode +USB A charging mode _Keep the load charging via

EUT, wireless charging load shall be set at full load respectively.(15W)



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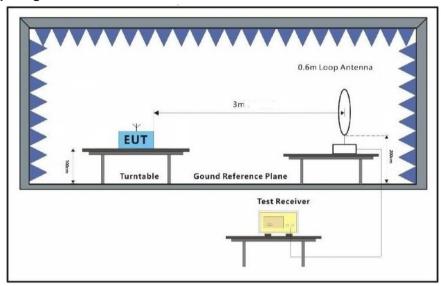
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6.2.2 Test Setup Diagram



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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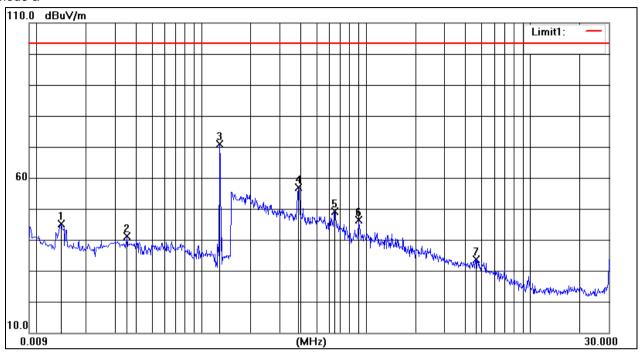
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Mode a



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0140	29.26	15.88	45.14	103.50	-58.36	QP
2	0.0354	25.44	15.75	41.19	103.50	-62.31	QP
3	0.1292	55.77	15.20	70.97	103.50	-32.53	peak
4	0.3891	41.89	15.08	56.97	103.50	-46.53	QP
5	0.6440	34.14	15.09	49.23	103.50	-54.27	QP
6	0.9040	31.23	15.10	46.33	103.50	-57.17	QP
7	4.6467	18.58	15.17	33.75	103.50	-69.75	QP



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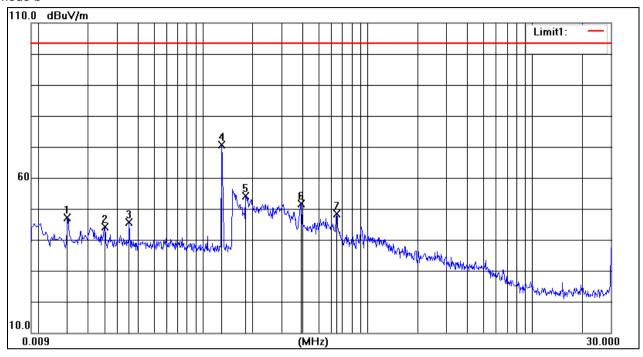
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Mode b



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0150	31.36	15.87	47.23	103.50	-56.27	QP
2	0.0251	28.34	15.82	44.16	103.50	-59.34	QP
3	0.0354	29.85	15.75	45.60	103.50	-57.90	QP
4	0.1292	55.42	15.20	70.62	103.50	-32.88	peak
5	0.1806	39.11	15.08	54.19	103.50	-49.31	QP
6	0.3914	36.64	15.08	51.72	103.50	-51.78	QP



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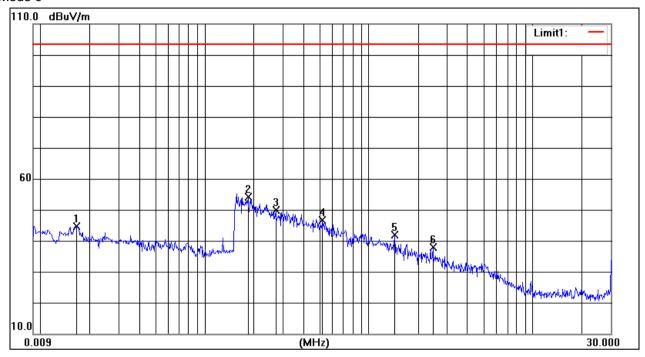
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Mode c



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0165	28.82	15.87	44.69	103.50	-58.81	QP
2	0.1834	39.00	15.08	54.08	103.50	-49.42	QP
3	0.2701	34.91	15.08	49.99	103.50	-53.51	QP
4	0.5210	31.43	15.09	46.52	103.50	-56.98	QP
5	1.4333	26.74	15.11	41.85	103.50	-61.65	QP
6	2.4474	22.70	15.13	37.83	103.50	-65.67	QP



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Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

EUT Constructional Details

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

- End of the Report -



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