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Shenzhen, Guangdong, China 518057

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TEST REPORT

SZEM1807006292CR **Application No.: Applicant:** Flashbay Electronics

Address of Applicant: Bldg. NO.1 101~501, Bldg. NO.2, Bldg. NO. 3 1~4F, Xifengcheng Industrial

Park, No. 2 Fuyuan Rd, Heping, Fuhai, Bao'an District, Shenzhen City

Guangdong Province, P.R. China

Manufacturer/ Factory: Flashbay Electronics

Address of Manufacturer/ Bldg. NO.1 101~501, Bldg. NO.2, Bldg. NO. 3 1~4F, Xifengcheng Industrial

Factory:

Park, No. 2 Fuyuan Rd, Heping, Fuhai, Bao'an District, Shenzhen City

Guangdong Province, P.R. China

Equipment Under Test (EUT):

EUT Name: Inductive Chargers

Model No.: Tavolo

AS/NZS CISPR 11:2017 Standard(s):

Date of Receipt: 2018-07-16

2018-07-17 to 2018-07-19 Date of Test:

2018-07-24 Date of Issue:

Pass* **Test Result:**



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



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	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2018-07-24		Original				

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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2 Test Summary

Emission Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at Mains Terminals (150kHz-30MHz)	AS/NZS CISPR 11:2017	AS/NZS CISPR 11:2017	Group 2 Class B	Pass			
Radiated Emissions (30MHz-1GHz)	AS/NZS CISPR 11:2017	AS/NZS CISPR 11:2017	Group 2 Class B	Pass			
Radiated Emissions (Magnetic field Strength)	AS/NZS CISPR 11:2017	AS/NZS CISPR 11:2017	Group 2 Class B	Pass			
(150kHz-30MHz)							



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input: DC 5V, 1.5A from Adapter		
	Output: DC 5V, 1A		
Cable:	USB cable from EUT: 143cm unshielded		
Operation frequency:	106.0KHz-174.8KHz		
Modulation type:	Load modulation		
Antenna type:	Inductive Loop Coil Antenna		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Adapter	Apple	A1357 W010A051	REF. No.SEA0500	
iPhone 8	Apple	A1863	F4GVQ656JC6D	

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.5dB (30MHz-1GHz)
3	Temperature test	± 1 ℃
4	Humidity test	± 3%



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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:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab 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.

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.

VCCI

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.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

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 Da								
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09			
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11			
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26			
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01			
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01			

Radiated Emissions (30MHz-1GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	Coaxial Cable SGS		SEM029-01	2018-07-12	2019-07-11			
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01			
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28			
(30MHz-1GHz)								
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12			

Radiated Emissions (Magnetic field Strength)(150kHz-30MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2018-07-12	2019-07-11			
EMI Test Receiver (9kHz-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018-04-02	2019-04-01			
Trilog-Broadband Antenna (30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28			
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12			
Active Loop Antenna	ETS-LINDGREN	6502	SEM003-08	2017-08-22	2020-08-21			



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General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07			



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6 Emission Test Results

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

Test Requirement: AS/NZS CISPR 11:2017
Test Method: AS/NZS CISPR 11:2017

Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz $66dB(\mu V)$ - $56dB(\mu V)$ quasi-peak, $56dB(\mu V)$ - $46dB(\mu V)$ 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

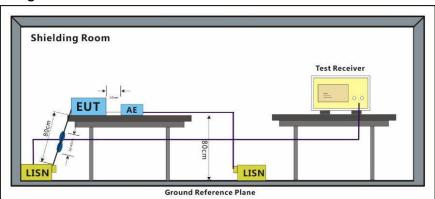
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 62.4 % RH Atmospheric Pressure: 1005 mbar

Test mode a:Charging mode_Keep the EUT in charging mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

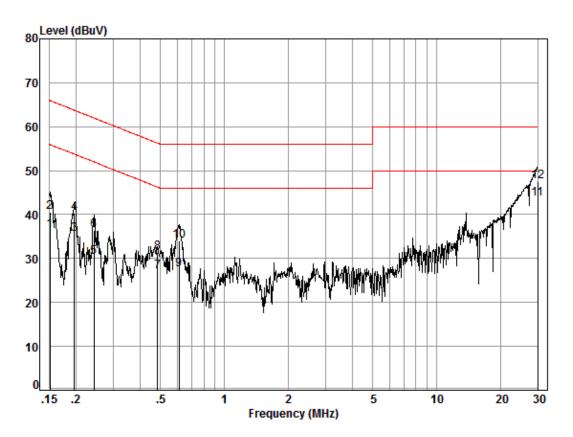
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 06292CR

Test mode: a

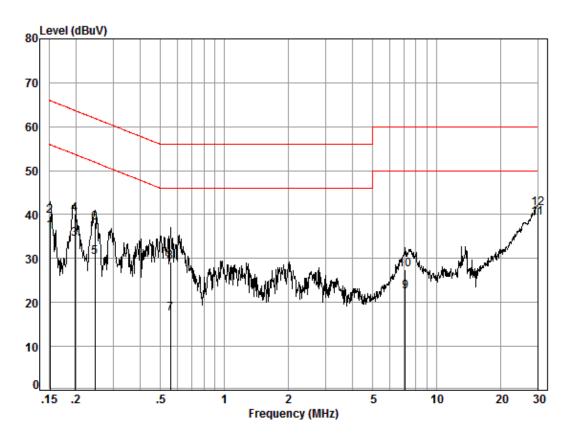
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.51	26.79	36.32	55.94	-19.62	Average
2	0.15	0.02	9.51	30.99	40.52	65.94	-25.42	QP
3	0.20	0.03	9.50	25.93	35.46	53.76	-18.30	Average
4	0.20	0.03	9.50	30.79	40.32	63.76	-23.44	QP
5	0.24	0.03	9.51	20.70	30.24	52.00	-21.76	Average
6	0.24	0.03	9.51	26.88	36.42	62.00	-25.58	QP
7	0.48	0.04	9.49	17.50	27.03	46.27	-19.24	Average
8	0.48	0.04	9.49	21.75	31.28	56.27	-24.99	QP
9	0.61	0.06	9.53	17.82	27.41	46.00	-18.59	Average
10	0.61	0.06	9.53	24.46	34.05	56.00	-21.95	QP
11	30.00	0.31	9.99	33.40	43.70	50.00	-6.30	Average
12	30.00	0.31	9.99	37.20	47.50	60.00	-12.50	QP



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Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 06292CR

Test mode: a

	mouc. a							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.58	26.62	36.22	55.94	-19.72	Average
2	0.15	0.02	9.58	30.04	39.64	65.94	-26.30	QP
3	0.20	0.03	9.57	24.89	34.49	53.71	-19.22	Average
4	0.20	0.03	9.57	30.57	40.17	63.71	-23.54	QP
5	0.25	0.03	9.58	20.67	30.28	51.91	-21.63	Average
6	0.25	0.03	9.58	28.51	38.12	61.91	-23.79	QP
7	0.56	0.05	9.61	7.84	17.50	46.00	-28.50	Average
8	0.56	0.05	9.61	19.48	29.14	56.00	-26.86	QP
9	7.14	0.18	9.72	12.63	22.53	50.00	-27.47	Average
10	7.14	0.18	9.72	17.54	27.44	60.00	-32.56	QP
11	30.00	0.31	10.37	28.60	39.28	50.00	-10.72	Average
12	30.00	0.31	10.37	30.70	41.38	60.00	-18.62	QP



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: AS/NZS CISPR 11:2017
Test Method: AS/NZS CISPR 11:2017

Frequency Range: 30MHz to 1GHz

Measurement Distance: 10m

Limit:

 $300 \text{Hz}-80.872 \text{MHz} \qquad 300 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 250 \text{B}(\mu\text{V/m}) \text{ average} \\ 80.872 \text{MHz}-81.848 \text{MHz} \qquad 500 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 450 \text{B}(\mu\text{V/m}) \text{ average} \\ 81.848 \text{MHz}-134.786 \text{MHz} \qquad 300 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 250 \text{B}(\mu\text{V/m}) \text{ average} \\ 134.786 \text{MHz}-136.414 \text{MHz} \qquad 500 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 450 \text{B}(\mu\text{V/m}) \text{ average} \\ 136.414 \text{MHz}-230 \text{MHz} \qquad 300 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 250 \text{B}(\mu\text{V/m}) \text{ average} \\ 230 \text{MHz}-1000 \text{MHz} \qquad 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}) \text{ average} \\ 370 \text{B}(\mu\text{V/m}) \text{ quasi-peak}, 320 \text{B}(\mu\text{V/m}$

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 300MHz

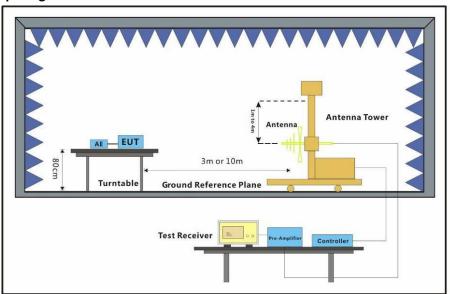
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Test mode a:Charging mode Keep the EUT in charging mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

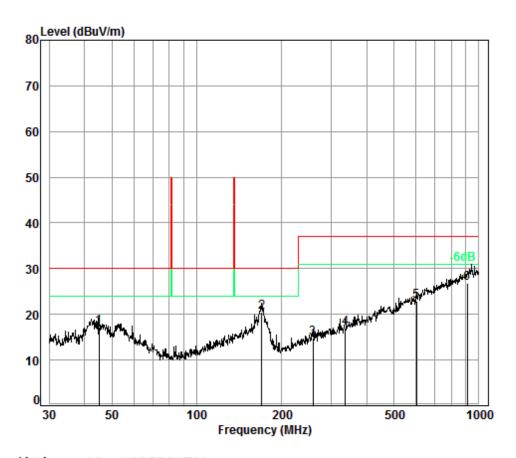
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Mode:a; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 06292CR

Test Mode: a

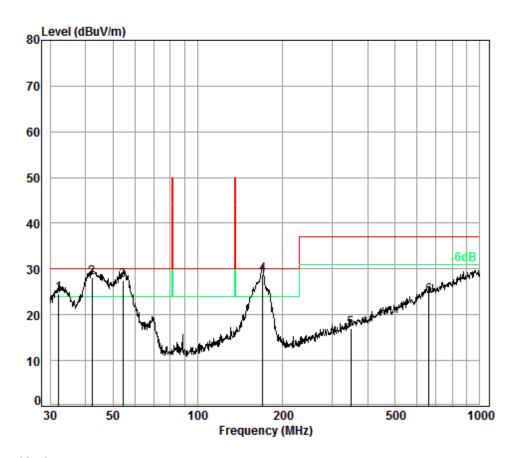
	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	45.06	6.87	12.90	32.46	30.01	17.32	30.00	-12.68
2 pp	170.19	7.52	12.39	32.42	32.96	20.45	30.00	-9.55
3	258.33	7.87	11.44	32.37	27.81	14.75	37.00	-22.25
4	336.04	8.13	13.58	32.35	27.69	17.05	37.00	-19.95
5	601.43	8.88	18.74	32.37	27.58	22.83	37.00	-14.17
6	909.67	9.50	22.35	31.51	26.38	26.72	37.00	-10.28



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Mode:a; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 06292CR

Test Mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.18	6.74	12.55	32.47	37.76	24.58	30.00	-5.42
2 qp	42.30	6.84	13.12	32.46	40.70	28.20	30.00	-1.80
3	54.26	6.96	12.43	32.45	40.60	27.54	30.00	-2.46
4 pp	170.19	7.52	12.39	32.42	41.35	28.84	30.00	-1.16
5	349.25	8.17	13.83	32.35	27.27	16.92	37.00	-20.08
6	661.15	9.01	19.67	32.33	27.88	24.23	37.00	-12.77



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6.3 Radiated Emissions (Magnetic field Strength)(150kHz-30MHz)

Test Requirement: AS/NZS CISPR 11:2017
Test Method: AS/NZS CISPR 11:2017

Frequency Range: 150kHz to 30MHz

Measurement Distance: 10m

Limit:

0.15MHz-30MHz $39dB(\mu A/m) - 3dB(\mu A/m)$ quasi-peak

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Test mode a:Charging mode_Keep the EUT in charging mode.

6.3.2 Measurement Data

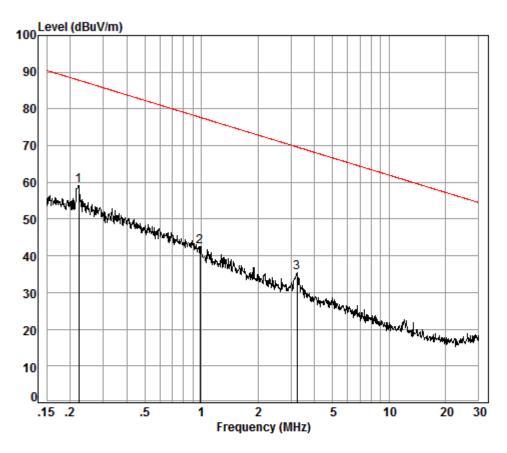
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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Model a:



Condition: 3m

Job No. : 06292CR

Test Mode: a

1 2 3

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
pp	0.22 0.98			32.67 32.65				
	3.22			32.66				



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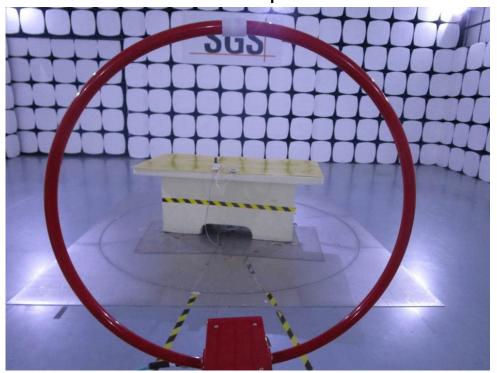
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7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



7.2 Radiated Emissions Test Setup



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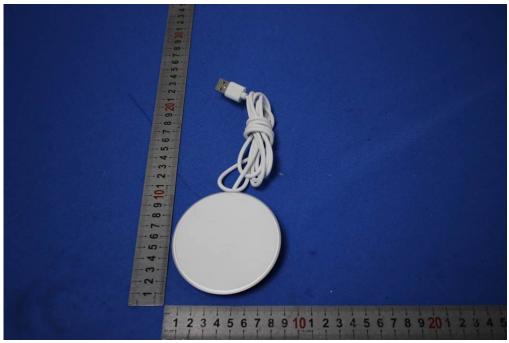


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7.3 EUT Constructional Details (EUT Photos)







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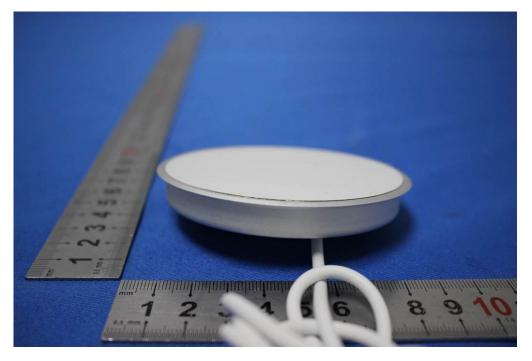




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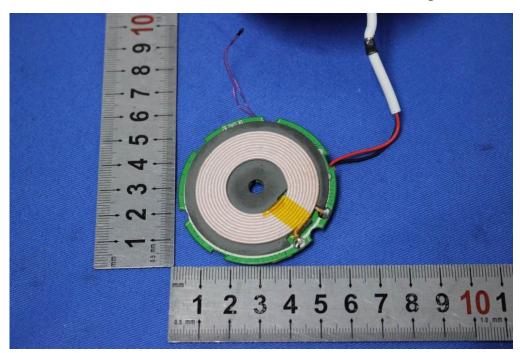


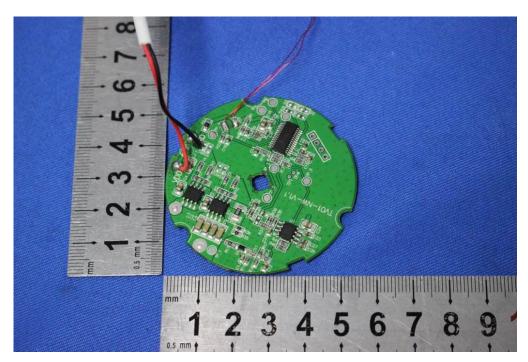




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