



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

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

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: ee.shenzhen@sgs.com

Report No.: SZEM180600531301
Page: 1 of 17

TEST REPORT

Application No.: SZEM1806005313CR
Applicant: Zhejiang Fousine Science & Technology CO., Ltd.
Address of Applicant: No. 198 Changyuan Rd., Yuyao, Zhejiang Prvn., China 315400
Manufacturer: Zhejiang Fousine Science & Technology CO., Ltd.
Address of Manufacturer: No.198, Changyuan Road, Yuyao City, Zhejiang Province, China
Factory: Zhejiang Fousine Science & Technology CO., Ltd.
Address of Factory: No.198, Changyuan Road, Yuyao City, Zhejiang Province, China
Equipment Under Test (EUT):
EUT Name: Wireless Charging Stand
Model No.: ONB18WI706
Trade mark: ONN
FCC ID: 2AKP3-ONB18WI706
Standard(s) : 47 CFR Part 18
Date of Receipt: 2018-06-20
Date of Test: 2018-06-23 to 2018-06-24
Date of Issue: 2018-06-27

Test Result:	Pass*
---------------------	--------------

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



Keny 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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2018-06-27		Original

Authorized for issue by:				
				
		<hr/>		
		Leo Lai /Project Engineer		
				
		<hr/>		
		Eric Fu /Reviewer		



2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted disturbance	47 CFR Part 18	FCC MP-5	Part 18.307	Pass
Radiated emission	47 CFR Part 18	FCC MP-5	Part 18.305	Pass



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 DETAILS OF E.U.T.	5
4.2 DESCRIPTION OF SUPPORT UNITS	5
4.3 MEASUREMENT UNCERTAINTY	5
4.4 TEST LOCATION.....	6
4.5 TEST FACILITY.....	6
4.6 DEVIATION FROM STANDARDS.....	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
5 EQUIPMENT LIST	7
6 RADIO SPECTRUM MATTER TEST RESULTS	8
6.1 CONDUCTED DISTURBANCE.....	8
6.1.1 <i>E.U.T. Operation</i>	8
6.1.2 <i>Test Setup Diagram</i>	8
6.1.3 <i>Measurement Procedure and Data</i>	8
6.2 RADIATED EMISSION	11
6.2.1 <i>E.U.T. Operation</i>	12
6.2.2 <i>Test Setup Diagram</i>	12
6.2.3 <i>Measurement Procedure and Data</i>	12
7 PHOTOGRAPHS	16
7.1 CONDUCTED DISTURBANCE TEST SETUP	16
7.2 RADIATED EMISSION TEST SETUP.....	16
7.3 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS).....	17

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from Adapter
Cable:	USB cable: 100cm shielded
Operation Frequency:	112-205kHz
Antenna Type:	Loop antenna
Modulation type:	Load modulation
Test voltage:	AC 120V/60Hz (Voltage of the AC/DC adapter)
Remark:	This device has been tested the worst status of full load and mobile phone at zero charge, intermediate charge, and full charge. The worst data was show in the report and mobile phone at zero charge is the worst case if not other specified.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile phone	Samsung	G950F	N/A
Adapter	Huawei	HW-059200CHQ	N/A
Dummy load	E-Charging	N/A	N/A

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 2.84\text{dB}$
6	Conducted Spurious emissions	$\pm 0.75\text{dB}$
7	RF Radiated power	$\pm 4.5\text{dB}$ (below 1GHz)
		$\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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



5 Equipment List

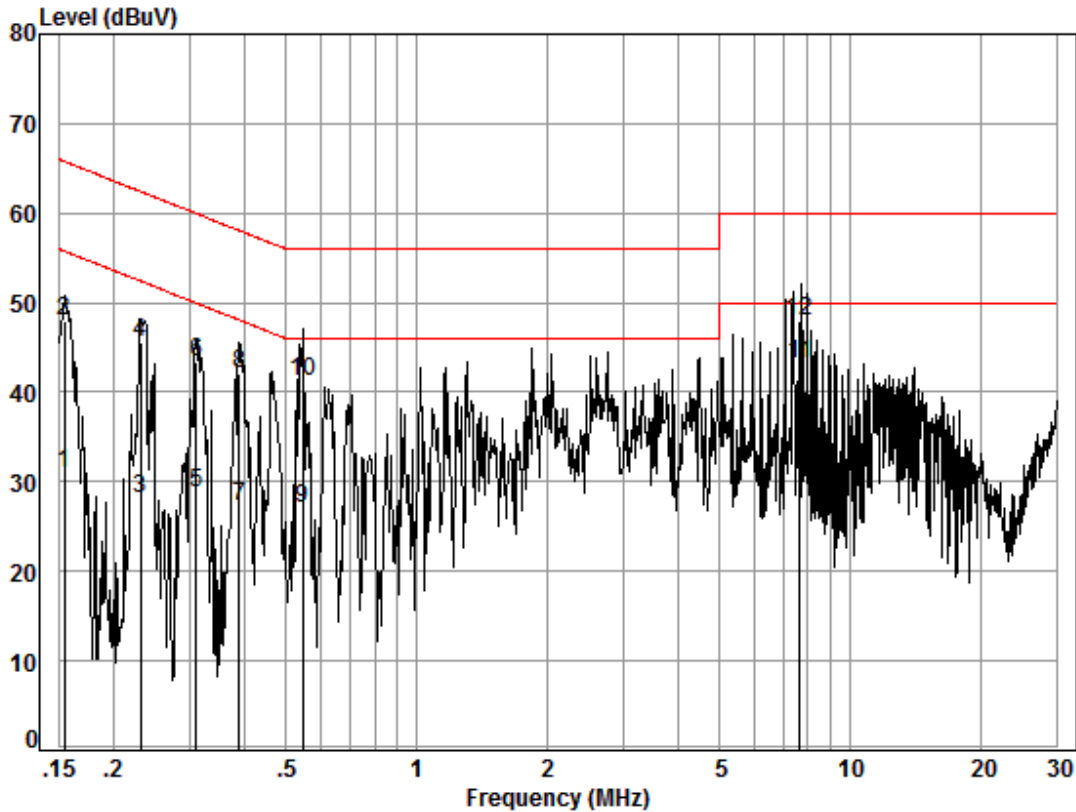
Conducted disturbance					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2017-07-13	2018-07-12
LISN	Rohde & Schwarz	ENV216	SEM007-01	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 emission					
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	2017-07-13	2018-07-12
EMI Test Receiver (9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2018-04-02	2019-04-01
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-01-26	2019-01-25
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

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



Mode:a; Line:Live Line

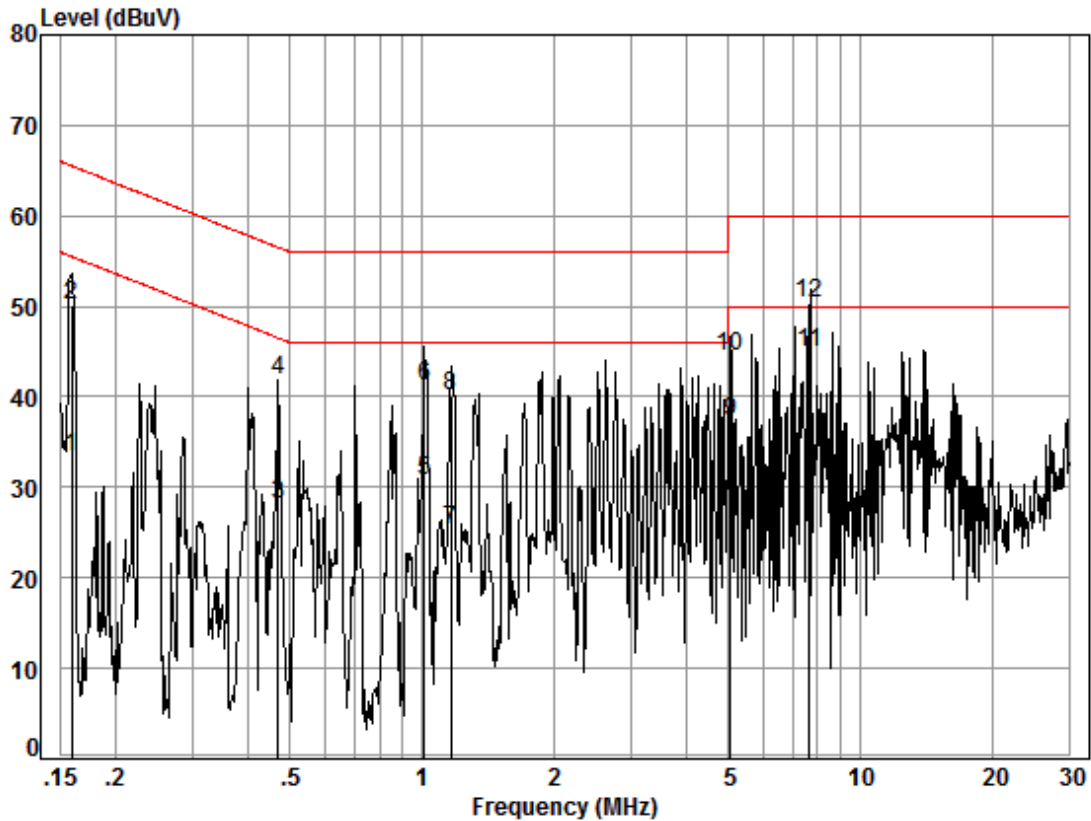


Site : Shielding Room
Condition: Line
Job No. : 05313CR
Test mode: a

	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	21.53	31.06	55.78	-24.72	Average
2	0.15	0.02	9.51	38.43	47.96	65.78	-17.82	QP
3	0.23	0.03	9.51	18.53	28.07	52.44	-24.37	Average
4	0.23	0.03	9.51	35.97	45.51	62.44	-16.93	QP
5	0.31	0.03	9.51	19.20	28.74	49.97	-21.23	Average
6	0.31	0.03	9.51	33.88	43.42	59.97	-16.55	QP
7	0.39	0.04	9.49	17.78	27.31	48.08	-20.77	Average
8	0.39	0.04	9.49	32.46	41.99	58.08	-16.09	QP
9	0.55	0.05	9.51	17.38	26.94	46.00	-19.06	Average
10	0.55	0.05	9.51	31.64	41.20	56.00	-14.80	QP
11	7.67	0.18	9.60	33.28	43.06	50.00	-6.94	Average
12	7.67	0.18	9.60	38.22	48.00	60.00	-12.00	QP



Mode:a; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05313CR
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.02	9.58	23.71	33.31	55.52	-22.21	Average
2	0.16	0.02	9.58	40.62	50.22	65.52	-15.30	QP
3	0.47	0.04	9.60	18.41	28.05	46.49	-18.44	Average
4	0.47	0.04	9.60	32.29	41.93	56.49	-14.56	QP
5	1.01	0.10	9.63	21.04	30.77	46.00	-15.23	Average
6	1.01	0.10	9.63	31.47	41.20	56.00	-14.80	QP
7	1.17	0.11	9.64	15.58	25.33	46.00	-20.67	Average
8	1.17	0.11	9.64	30.36	40.11	56.00	-15.89	QP
9	5.06	0.20	9.69	27.35	37.24	50.00	-12.76	Average
10	5.06	0.20	9.69	34.56	44.45	60.00	-15.55	QP
11	7.67	0.18	9.74	34.90	44.82	50.00	-5.18	Average
12	7.67	0.18	9.74	40.46	50.38	60.00	-9.62	QP

6.2 Radiated emission

Test Requirement Part 18.305
Test Method: FCC MP-5
Measurement Distance: 10m
Limit:

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 $25 \times \text{SQRT}(\text{power}/500)$	300 ¹ 300
	Any non-ISM frequency	Below 500 500 or more	15 $15 \times \text{SQRT}(\text{power}/500)$	300 ¹ 300
Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency	Any	25	300
	Any non-ISM frequency	Any	15	300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) $2,400/\text{F}(\text{kHz}) \times \text{SQRT}(\text{power}/500)$	300 ³ 300
	490 to 1,600 kHz	Any	24,000/F(kHz)	30
	Above 1,600 kHz	Any	15	30
Induction cooking ranges	Below 90 kHz	Any	1,500	⁴ 30
	On or above 90 kHz	Any	300	⁴ 30

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.

²Reduced to the greatest extent possible.

³Field strength may not exceed 10 µV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.

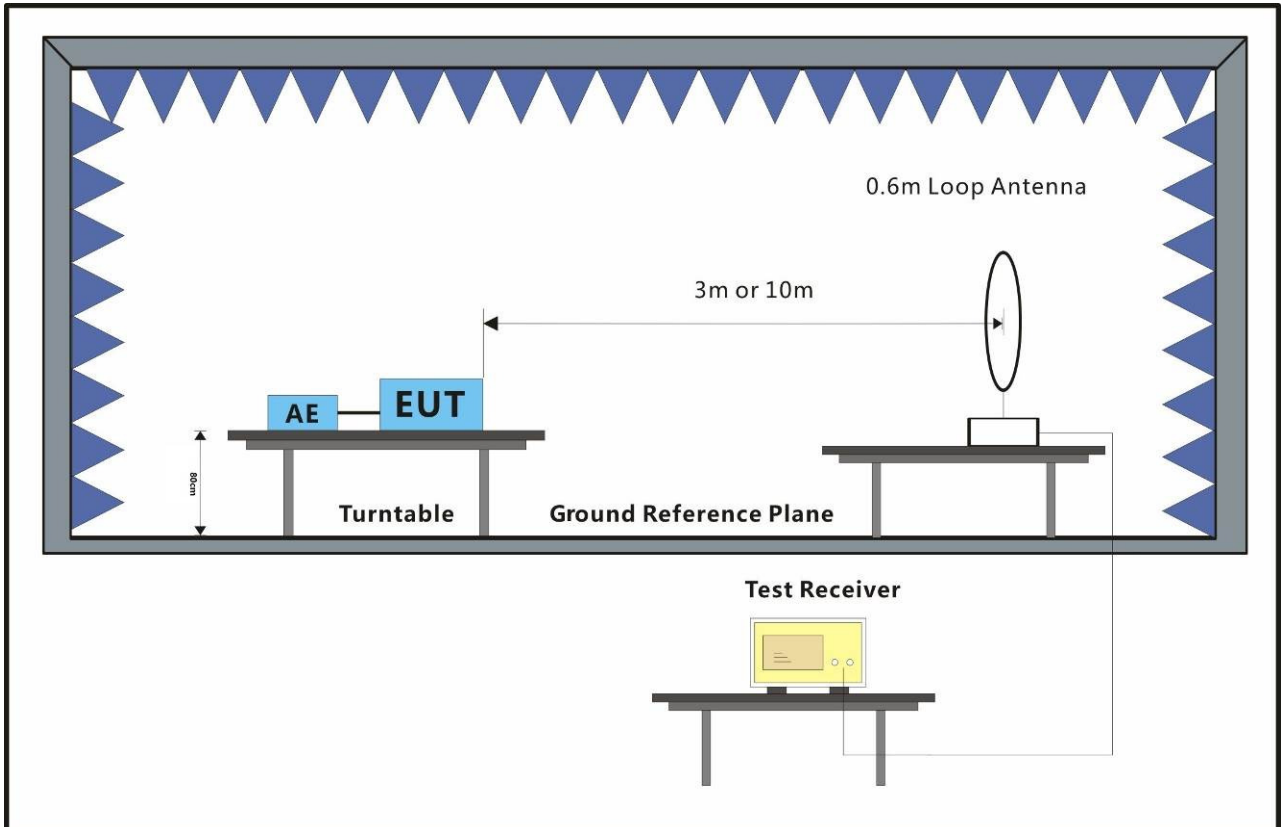
⁴Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar
 Test mode a:Charge mode_Keep the EUT charging

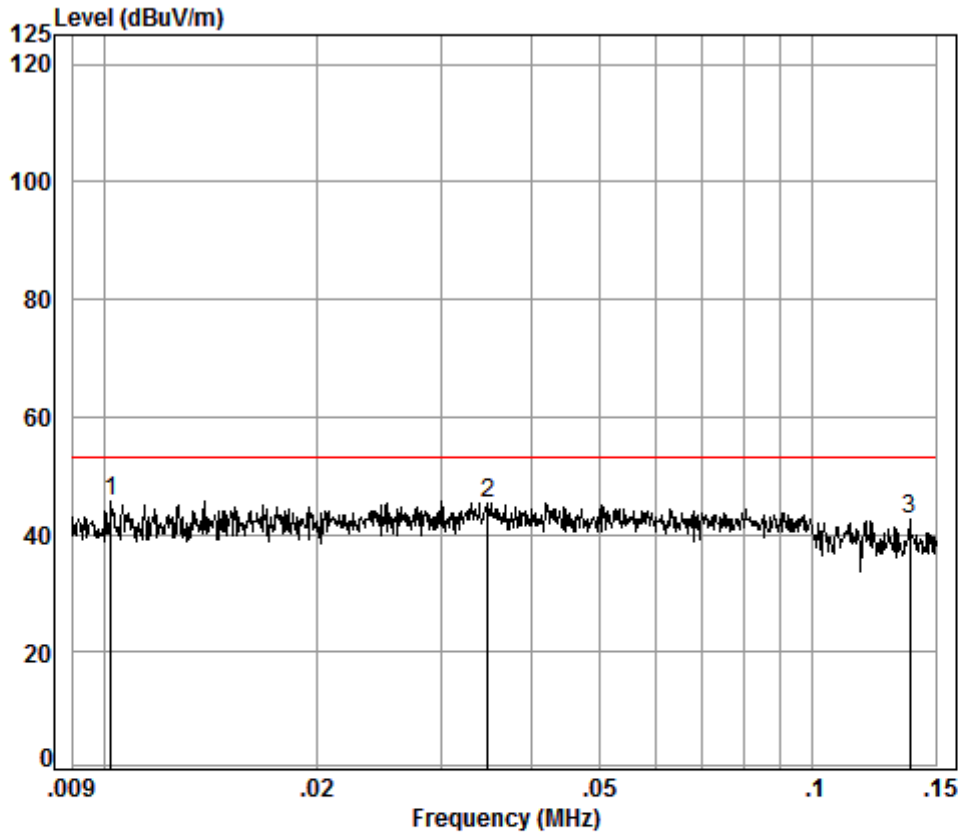
6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data



9kHz~150kHz

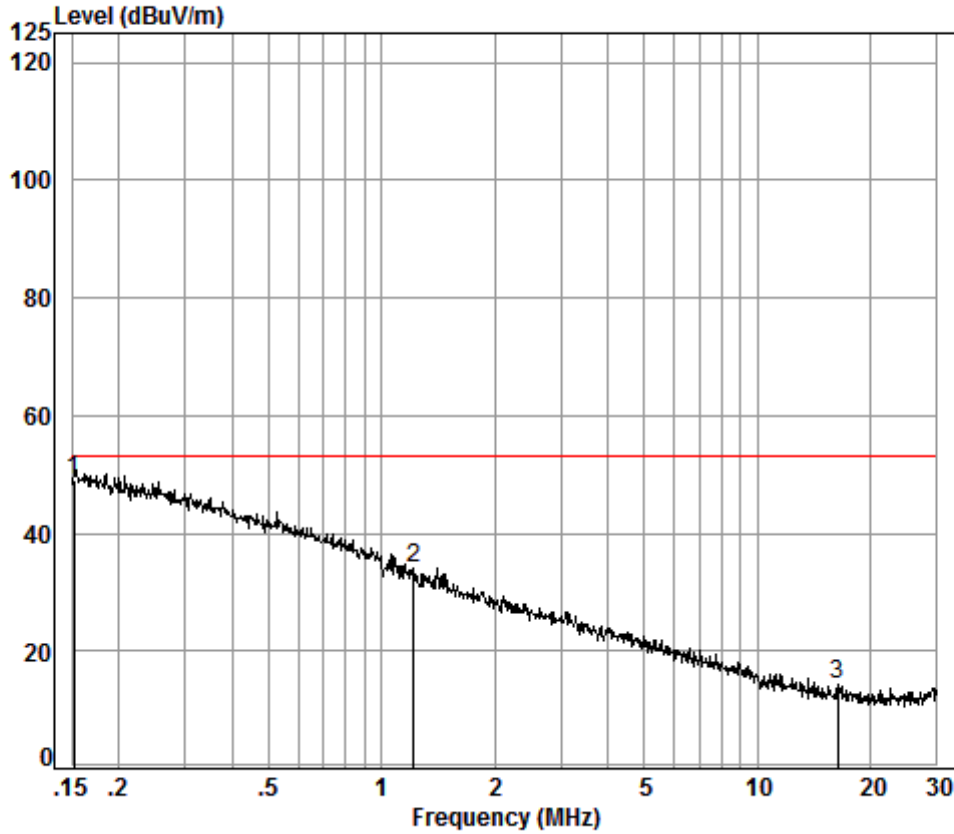


Condition: 10m
Job No. : 05313CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	0.01	0.29	19.15	0.00	26.17	45.61	53.06	-7.45
2	0.03	0.16	13.43	0.00	31.64	45.23	53.06	-7.83
3	0.14	0.06	11.77	0.00	30.78	42.61	53.06	-10.45



150kHz~30MHz



Condition: 10m
Job No. : 05313CR
Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	0.15	0.07	11.71	0.00	37.10	48.88	53.06	-4.18
2	1.22	0.26	12.03	0.00	21.71	34.00	53.06	-19.06
3	16.31	0.62	10.14	0.00	3.66	14.42	53.06	-38.64



The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_{300} / L_{10} = D_{10} / D_{300}$$

Note:

L₃₀₀: Level @ 300m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃₀₀: 300m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 300m test distance is below:

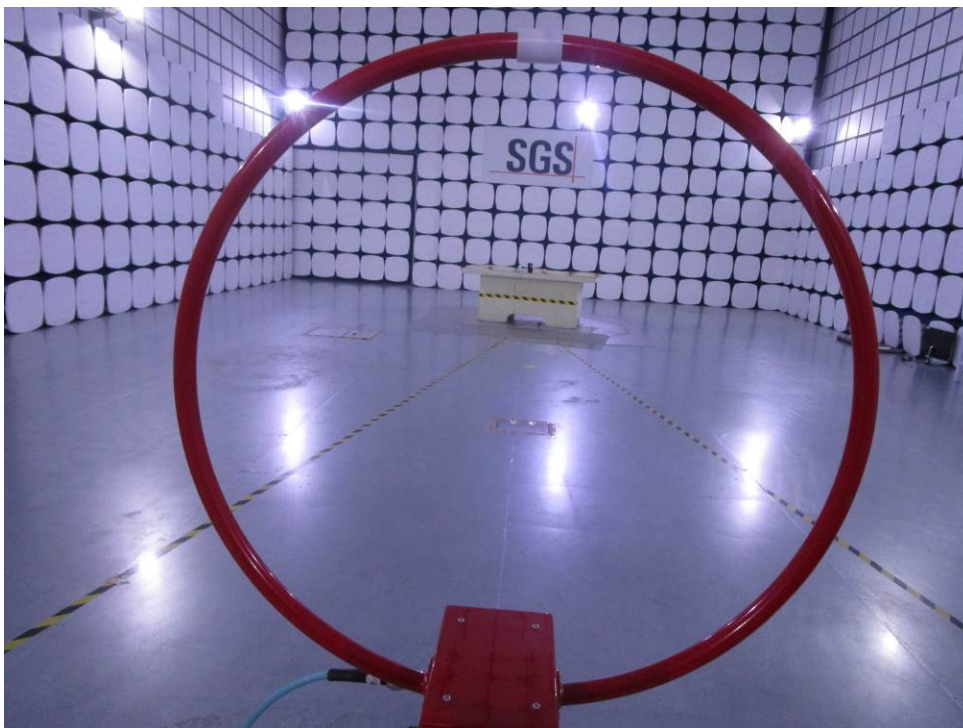
Frequency (MHz)	Read Level @ 10m (dBuV/m)	Read Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Margin (dB)
0.01	45.61	-13.47	23.52	-37.00
0.03	45.23	-13.85	23.52	-37.38
0.14	42.61	-16.47	23.52	-40.00
0.15	48.88	-10.20	23.52	-33.73
1.22	34.00	-25.08	23.52	-48.61
16.31	14.42	-44.66	23.52	-68.19

7 Photographs

7.1 Conducted disturbance Test Setup



7.2 Radiated emission Test Setup





7.3 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos.

- End of the Report -