



# TEST REPORT

**Application No.:** SZEM2010010486CR (KSEM2009001186CR)  
**FCC ID:** 2AWXQ-CA-1500  
**Applicant:** Luxshare Precision Industry (Chuzhou) Co., Ltd.  
**Address of Applicant:** No.8 Yongyang road, National Economic and Technologic Development Zone, Chuzhou City, Anhui China  
**Manufacturer:** Luxshare Precision Industry (Chuzhou) Co., Ltd.  
**Address of Manufacturer:** No.8 Yongyang road, National Economic and Technologic Development Zone, Chuzhou City, Anhui China  
**Factory:** LUXSHARE – ICT(Viet Nam)LTD  
**Address of Factory:** Lot E, Quang Chau Industrial Park, Quang Chau Village, Viet Yen District, Bac Giang Province, Viet Nam

**Equipment Under Test (EUT):**  
**EUT Name:** CA Essential Micro Docking Station  
**Model No.:** DS1500  
**Standard(s) :** 47 CFR Part 18  
**Date of Receipt:** 2020-09-11  
**Date of Test:** 2020-10-09 to 2020-10-16  
**Date of Issue:** 2020-10-20

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

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

Keny Xu



EMC Laboratory Manager



Unless otherwise agreed 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.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Revision Record			
Version	Description	Date	Remark
00	Original	2020-10-20	/

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Foray Chen /Project Engineer</b>	
			
		<hr/> <b>Eric Fu /Reviewer</b>	



Unless otherwise agreed 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.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**

## 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 (Magnetic field Strength) (9kHz-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



### 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 .....	6
4.4 TEST LOCATION .....	7
4.5 TEST FACILITY .....	7
4.6 DEVIATION FROM STANDARDS .....	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	7
5 EQUIPMENT LIST .....	8
6 EMISSION TEST RESULTS .....	10
6.1 CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ) .....	10
6.2 RADIATED EMISSIONS (MAGNETIC FIELD STRENGTH) (9KHZ-30MHZ) .....	14
6.3 RADIATED EMISSIONS (30MHZ-1GHZ) .....	16
7 TEST SETUP PHOTOGRAPHS .....	19
8 EUT CONSTRUCTIONAL DETAILS .....	19



Unless otherwise agreed 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 5V 3A /DC 20V 4.5A Wireless charging:5W
Serial Number	N/A
Firmware Version:	N/A
Test voltage:	AC 120V/60Hz
Antenna Type:	Inductive Loop Coil Antenna
Modulation Type:	FSK
Operation Frequency:	120kHz to 130kHz
Wireless Output:	5W

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
MACBOOK PRO	APPLE	A1989	C02Y4AV9JHCD
Load	N/A	N/A	N/A
Adapter	MI	ADC6502	MA1000002683898Y04TJ

Parameter of MACBOOK PRO:

MACBOOK PRO	Rated Input	AC100V-240V 50/60Hz 1500mA
	Rated Output	DC5V by Type-c USB port

Parameter of Adapter:

Adapter	Rated Input	AC100V-240V 50/60Hz 1800mA
	Rated Output	20V,4.5A





**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	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
9	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
10	Temperature test	$\pm 1^\circ\text{C}$
11	Humidity test	$\pm 3\%$
12	Supply voltages	$\pm 1.5\%$
13	Time	$\pm 3\%$

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR}}$  (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



#### 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.

- **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.

- **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

#### 4.7 Abnormalities from Standard Conditions

None



Unless otherwise agreed 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## 5 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	2019-09-24	2020-09-23
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

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-08-04	2023-08-03
2	MXE EMI receiver(3Hz-3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020-06-26	2023-06-25
4	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
5	Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
6	Coaxial Cable	SGS	N/A	SEM025-01	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	Model No.	Inventory 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



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

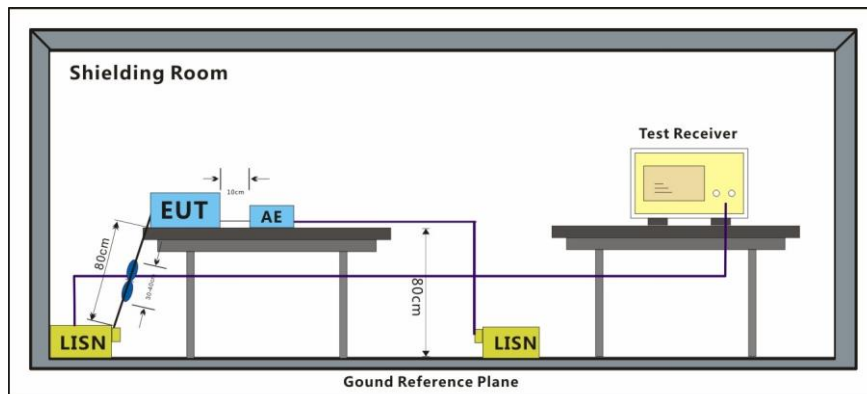
#### 6.1.1 E.U.T. Operation

Operating Environment:

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

- Pre scan mode:
- a: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at empty load respectively.(0W).
  - b: Wireless charging mode \_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at half load respectively.(2.5W)
  - c: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at full load respectively.(5W)
  - d: Wireless charging mode\_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at empty load respectively.(0W).
  - e: Wireless charging mode \_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at half load respectively.(2.5W)
  - f: Wireless charging mode\_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at full load respectively.(5W)
- The final test mode:
- c: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at full load respectively.(5W)

#### 6.1.2 Test Setup Diagram



Unless otherwise agreed 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

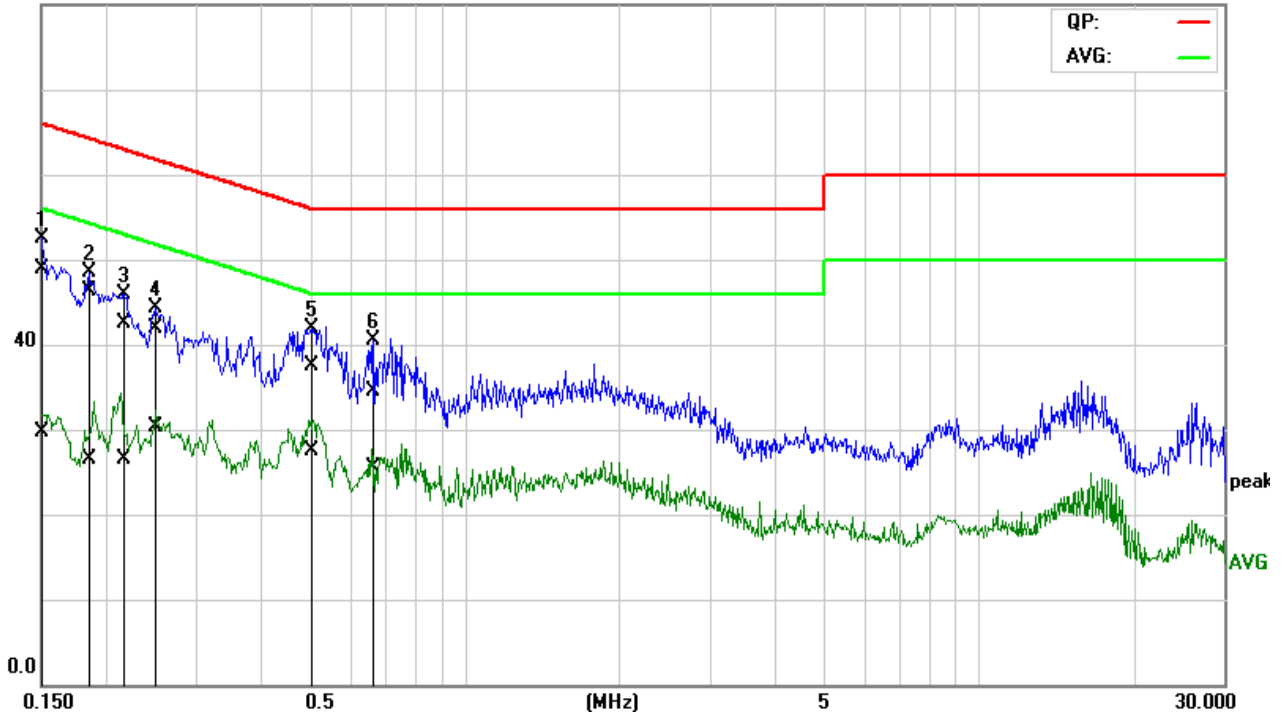
### 6.1.3 Measurement Data

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.



Mode:c; Line:Live Line

80.0 dBuV



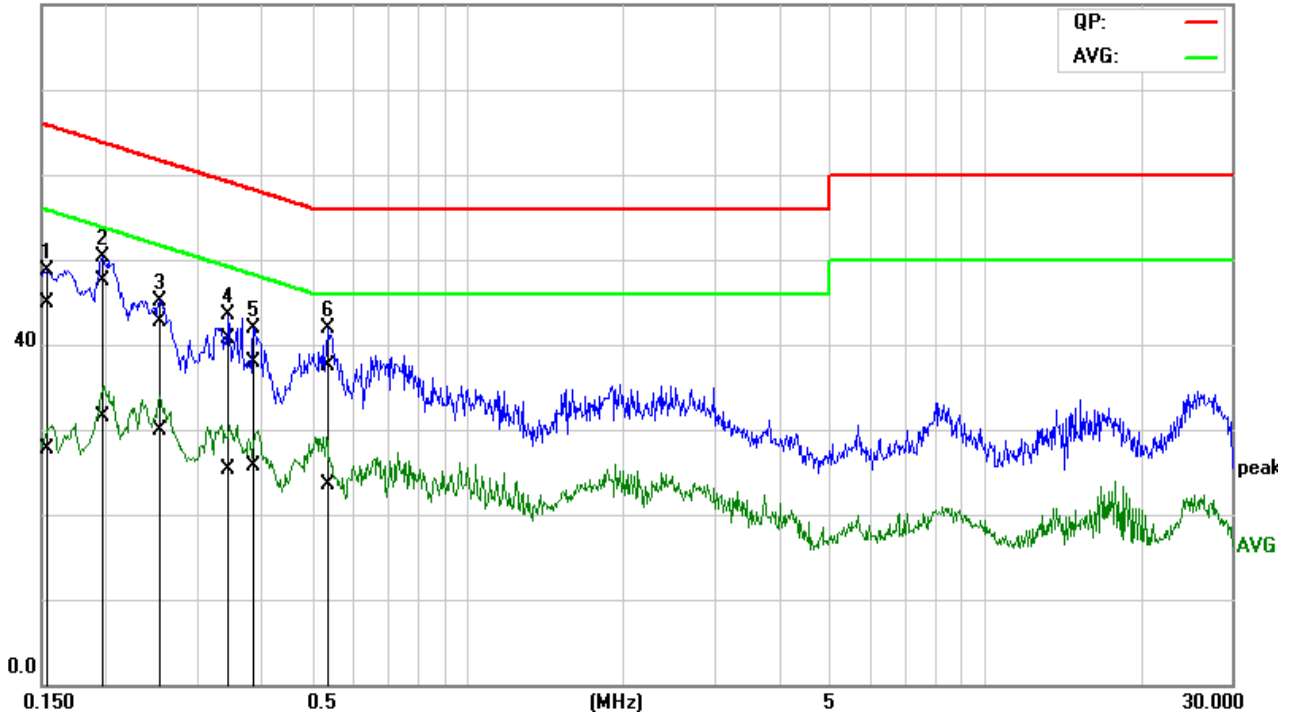
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	29.50	10.23	19.45	48.95	29.68	65.99	56.00	-17.04	-26.32	Pass
2	0.1853	26.88	7.11	19.43	46.31	26.54	64.24	54.24	-17.93	-27.70	Pass
3	0.2174	23.13	7.09	19.42	42.55	26.51	62.91	52.92	-20.36	-26.41	Pass
4	0.2495	22.55	10.84	19.40	41.95	30.24	61.77	51.77	-19.82	-21.53	Pass
5	0.5020	18.04	8.09	19.47	37.51	27.56	56.00	46.00	-18.49	-18.44	Pass
6	0.6648	15.06	6.03	19.48	34.54	25.51	56.00	46.00	-21.46	-20.49	Pass



Unless otherwise agreed 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.

Mode:c; Line:Neutral Line

80.0 dBuV



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1540	25.45	8.24	19.40	44.85	27.64	65.78	55.78	-20.93	-28.14	Pass
2*	0.1965	28.02	12.16	19.39	47.41	31.55	63.75	53.76	-16.34	-22.21	Pass
3	0.2535	23.22	10.58	19.39	42.61	29.97	61.64	51.64	-19.03	-21.67	Pass
4	0.3446	21.23	5.93	19.38	40.61	25.31	59.09	49.09	-18.48	-23.78	Pass
5	0.3851	18.46	6.23	19.38	37.84	25.61	58.17	48.17	-20.33	-22.56	Pass
6	0.5377	18.11	4.11	19.40	37.51	23.51	56.00	46.00	-18.49	-22.49	Pass



Unless otherwise agreed 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch / 检验检测专用章  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



**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

**6.2.1 E.U.T. Operation**

Operating Environment:

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

Pre scan mode: a: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at empty load respectively.(0W).  
 b: Wireless charging mode \_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at half load respectively.(2.5W)  
 c: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at full load respectively.(5W)  
 d: Wireless charging mode\_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at empty load respectively.(0W).  
 e: Wireless charging mode \_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at half load respectively.(2.5W)  
 f: Wireless charging mode\_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at full load respectively.(5W)  
 The final test mode: c: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at full load respectively.(5W)

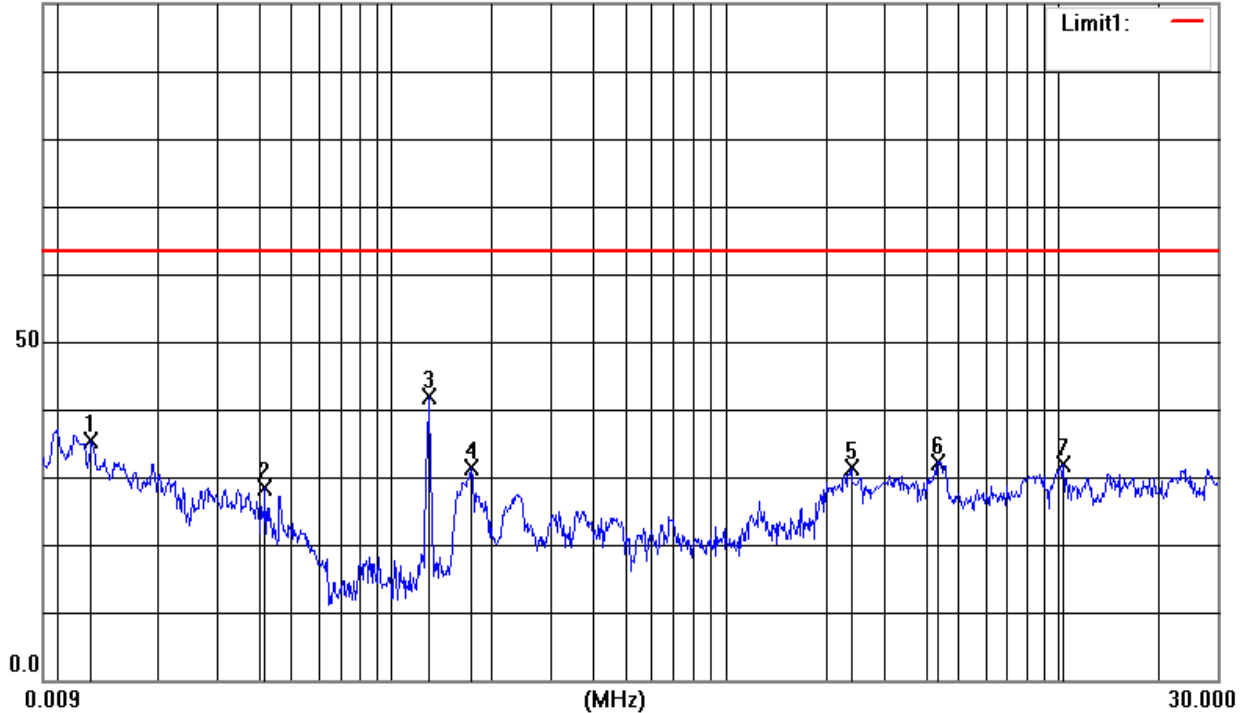
**6.2.2 Measurement Data**

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.



Mode:c;

100.0



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0125	17.83	17.45	35.28	63.50	-28.22	peak
2	0.0415	15.62	12.86	28.48	63.50	-35.02	QP
3	0.1292	42.95	-1.01	41.94	63.50	-21.56	QP
4	0.1711	35.63	-4.29	31.34	63.50	-32.16	QP
5	2.3710	35.04	-3.74	31.30	63.50	-32.20	QP
6	4.3376	35.50	-3.25	32.25	63.50	-31.25	QP
7	10.3422	33.54	-1.74	31.80	63.50	-31.70	QP



**6.3 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

**6.3.1 E.U.T. Operation**

Operating Environment:

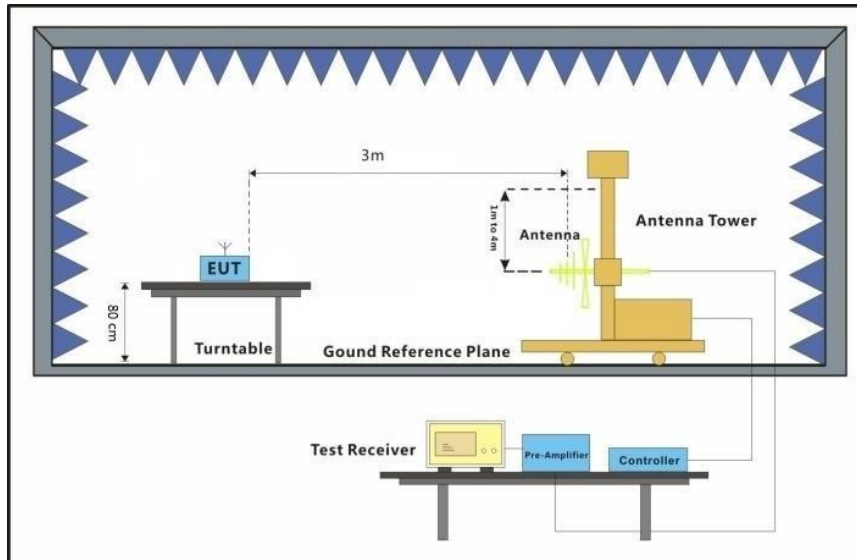
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Pre scan mode:

- a: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at empty load respectively.(0W).
- b: Wireless charging mode \_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at half load respectively.(2.5W)
- c: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at full load respectively.(5W)
- d: Wireless charging mode\_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at empty load respectively.(0W).
- e: Wireless charging mode \_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at half load respectively.(2.5W)
- f: Wireless charging mode\_Keep the load charging via EUT with DC 20V by adapter, the load shall be set at full load respectively.(5W)

The final test mode: c: Wireless charging mode\_Keep the load charging via EUT with DC 5V by Type-c USB port, the load shall be set at full load respectively.(5W)

**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.

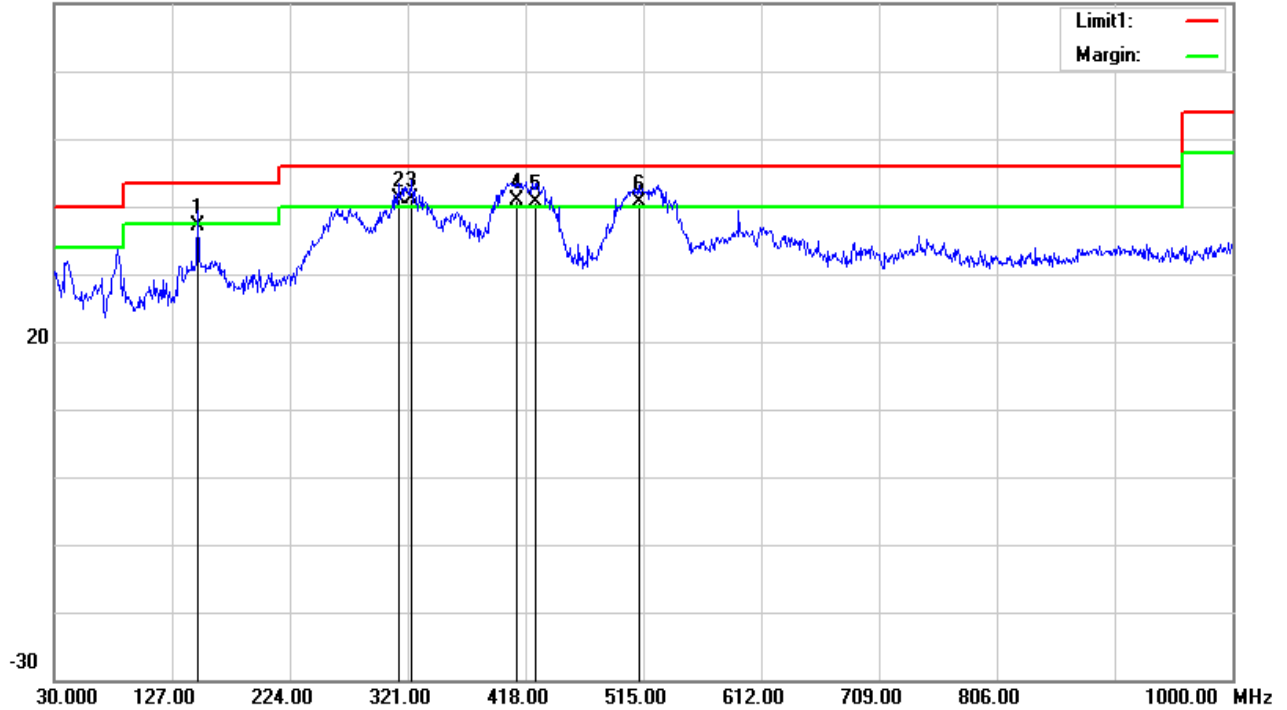


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Mode:c; Polarization:Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	148.3400	16.96	20.15	37.11	43.50	-6.39	200	74	QP
2	313.2400	19.80	21.22	41.02	46.00	-4.98	200	263	QP
3	323.9100	19.44	21.67	41.11	46.00	-4.89	100	58	QP
4	410.2400	16.98	23.97	40.95	46.00	-5.05	300	147	QP
5	426.7300	16.33	24.19	40.52	46.00	-5.48	100	196	QP
6	511.1200	15.38	25.36	40.74	46.00	-5.26	200	205	QP



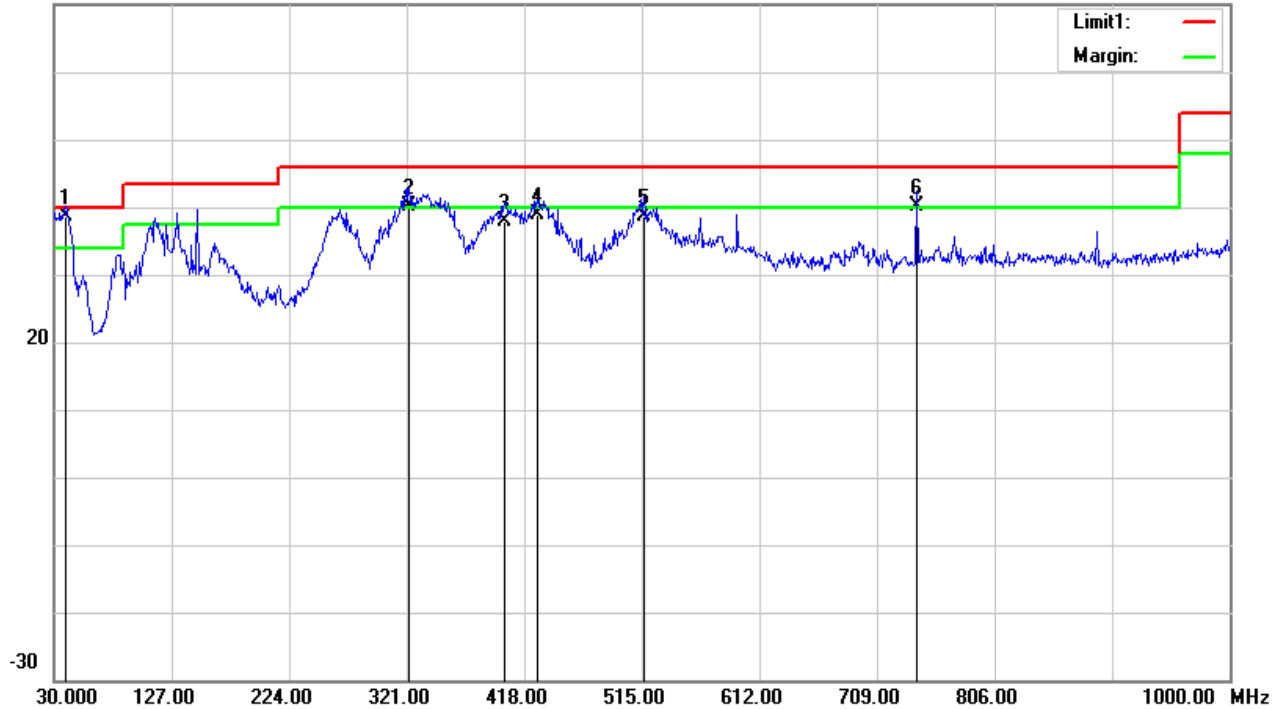
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch / Shenzhen EMC Laboratory

Unless otherwise agreed 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.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Mode:c; Polarization:Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	39.7000	18.24	20.28	38.52	40.00	-1.48	100	25	QP
2	322.9400	18.49	21.63	40.12	46.00	-5.88	200	48	QP
3	401.5100	14.01	23.85	37.86	46.00	-8.14	200	147	QP
4	428.6700	14.74	24.22	38.96	46.00	-7.04	200	152	QP
5	516.9400	13.30	25.44	38.74	46.00	-7.26	100	205	QP
6	741.9800	12.15	27.87	40.02	46.00	-5.98	300	320	QP



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

Unless otherwise agreed 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.  
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



## 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 -

