RADIO TEST REPORT For SHENZHEN SAMHOO SCI&TECH CO., LTD Digital Two Way Radio Test Model: SPM6050

Prepared for	:	SHENZHEN SAMHOO SCI&TECH CO.,LTD
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Date of receipt of test sample	:	April 25, 2016
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	April 25, 2016 ~ June 08, 2016
Fax Web Mail Date of receipt of test sample Number of tested samples Serial number	:	(+86)755-82591330 (+86)755-82591332 www.LCS-cert.com webmaster@LCS-cert.com April 25, 2016 1 Prototype

June 08, 2016 :

Date of Report

HENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ABUBSPM6050 Report No.: LCS1606231829E		
	RADIO TEST REPORT FCC Per 47 CFR 2.1091(b)	
Report Reference No	: LCS1606231829E	
Date of Issue	: June 08, 2016	
Festing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.	
Address	: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China	
Festing Location/ Procedure	 Full application of Harmonised standards Partial application of Harmonised standards Other standard testing method 	
Applicant's Name	: SHENZHEN SAMHOO SCI&TECH CO.,LTD	
Address	: Room 401, Building 2th, Huaqiangyun Industrial Park, Meixiu Road, Meilin, Futian District, Shenzhen, China	
Fest Specification		
Standard	: FCC Per 47 CFR 2.1091(b)	
Fest Report Form No.	: LCSEMC-1.0	
ΓRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.	
Master TRF	: Dated 2011-03	
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Fest Item Description.	: Digital Two Way Radio	
Frade Mark	: Samhoo	
Fest Model	: SPM6050	
Ratings	: DC 13.60V by External DC power supply	
Result	: Positive	

Compiled by:

Aking Jin

Aking Jin/ File administrators

Supervised by:

ash

Glin Lu/ Technique principal

Approved by:

Gavin Liang/ Manager

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Report No.: LCS1606231829E

RADIO -- TEST REPORT

Test Report No. : LCS1606231829E

June 08, 2016 Date of issue

Test Model	: SPM6050
EUT	: Digital Two Way Radio
Applicant	: SHENZHEN SAMHOO SCI&TECH CO.,LTD
Address	Room 401, Building 2th, Huaqiangyun Industrial Park, Meixiu Road, Meilin, Futian District, Shenzhen, China
Telephone	:/
Fax	:/
Manufacturer	: SHENZHEN SAMHOO SCI&TECH CO.,LTD
Address	Room 401, Building 2th, Huaqiangyun Industrial Park, Meixiu Road, Meilin, Futian District, Shenzhen, China
Telephone	:/
Fax	: /
	: SHENZHEN SAMHOO SCI&TECH CO.,LTD
Address	: Room 401, Building 2th, Huaqiangyun Industrial Park, Meixiu
	Road, Meilin, Futian District, Shenzhen, China
Telephone	:/
Fax	:/

Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	2016-06-08	Initial Issue	Gavin Liang

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TABLE OF CONTENTS

1.GENEF	RAL INFORMATION	6
1.1.	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2.	Objective	
1.3.	RELATED SUBMITTAL(S)/GRANT(S)	6
1.4.	DESCRIPTION OF TEST FACILITY	
1.5.	SUPPORT EQUIPMENT LIST	
1.6.	EXTERNAL I/O	7
1.7.	MEASUREMENT UNCERTAINTY	
1.8.	TEST ENVIRONMENT	
1.9.	DESCRIPTION OF TEST MODES	
2.SYSTE	M TEST CONFIGURATION	9
2.1.	JUSTIFICATION	9
2.2.	EUT EXERCISE SOFTWARE	9
2.3.	SPECIAL ACCESSORIES	-
2.4.	BLOCK DIAGRAM/SCHEMATICS	
2.5.	EQUIPMENT MODIFICATIONS	
2.6.	CONFIGURATION OF TEST SETUP	9
3.METH	OD OF MEASUREMENT 1	0
3.1.	EME MEASUREMENTS MADE ON TRUNK MOUNTED ANTENNAS	0
3.1.1.		
3.1.2.		
3.2.	EME MEASUREMENTS MADE ON CENTER ROOF MOUNTED ANTENNAS	
3.2.1.	EXTERNAL/BYSTANDER VEHICLE EME MEASUREMENT	
3.2.2.	INTERNAL/PASSENGER VEHICLE EME MEASUREMENT	0
	VED ACCESSORIES 1	
5. TEST F	RESULT1	2
6.CONCI	LUSION1	5
7.ANTEN	INA LOCATION DRAWING1	6
8.PROBE	CALIBRATION CERTIFICATES1	7

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

FCC ID: 2ABUBSPM6050

Report No.: LCS1606231829E

1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT	: Digital Two Way Radio
Test Model	: SPM6050
Power Supply	: DC 13.6V by External DC power supply
Hardware Version	: SPM6000V4.0
Software Version	: V1.02.01.007
Frequency Range	: 450MHz-520MHz
Channel Separation	: Analog Voice 12.5KHz
	Digital Voice/Data 12.5KHz
	Digital Data 12.5KHz
Modulation Type	: FM for Analog Voice
	4FSK for Digital Voice/Digital Data
	4FSK for Digital Data
Emission Designator	: 11K0F3E for FM Modulation at 12.5KHz Channel Separation
	7K60FXD for Digital Data only at 12.5KHz Channel Separation
	7K60FXW for Digital Data & Digital Voice at 12.5KHz Channel Separation
Antenna Description	: External, 3.65dBi (Max)
Rated Power	: 45Wattes/5Watts
GPS Receiver	:
Receive Frequency	: 1575.42MHz
Channel Number	:1

Note: The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.

1.2. Objective

The tests were performed according to following standards: <u>FCC Part 2:</u> FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS <u>KDB447498 v06:</u> Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

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VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate

1.6. External I/O

I/O Port Description	Quantity	Cable
Micro SD Card Slot	1	N/A
Handheld Microphone Interface	1	N/A
Accessories Interface	1	N/A
RF Antenna Base	1	N/A
Power Interface	1	N/A
Positioning Module Antenna Interface	1	N/A

1.7. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Description	Error
ETS Filed Meter	± 3%
Repeatability Accuracy	±7%

1.8. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

1.9. Description Of Test Modes

The EUT has been tested under typical operating condition and The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

EUT operation mode no.	Description of operation mode	Additional information
		The equipment is set with FM modulation and 12.5KHz
Op 1	FM+BW12.5KHz+TX	bandwidth at maximum rated power for transmitter, powered by
		DC 13.60V
		The equipment is set with FM modulation and 12.5KHz
Op 2	FM+BW12.5KHz+TX	bandwidth at minimum rated power for transmitter, powered by
		DC 13.60V
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SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCC ID: 2ABUBSPM6050	<i>Report No.: LCS1606231829E</i>

		The equipment is set with 4FSK modulation and 12.5KHz
Op 3	4FSK+BW12.5KHz+TX	bandwidth at maximum rated power for transmitter, powered by
		DC 13.60V
		The equipment is set with 4FSK modulation and 12.5KHz
Op 4	4FSK+BW12.5KHz+TX	bandwidth at minimum rated power for transmitter, powered by
		DC 13.60V
0 = 5	FM+BW12.5KHz+RX	The equipment is set with FM modulation and 12.5KHz
Op 5	(Standby)	bandwidth at Receiver/Standby mode, powered by DC 13.60V
On 6	4FSK+BW12.5KHz+RX	The equipment is set with 4FSK modulation and 12.5KHz
Op 6	(Standby)	bandwidth at Receiver/Standby mode, powered by DC 13.60V

Test frequency list

Modulation Trms	Channel Semanation	Test Channel	Test Frequ	Test Frequency (MHz)		
Modulation Type	Channel Separation	Test Channel	ТХ	RX		
		Ch1	450.025	450.025		
Analog/FM	12.5KHz	Ch2	467.775	467.775		
		Ch3	511.9875	511.9875		
		Ch7	450.025	450.025		
Digital/4FSK	12.5KHz	Ch8	467.775	467.775		
		Ch9	511.9875	511.9875		

Report No.: LCS1606231829E

2. SYSTEM TEST CONFIGURATION

2.1. Justification

The system was configured for testing in engineering mode.

2.2. EUT Exercise Software

N/A.

2.3. Special Accessories

N/A.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Configuration of Test Setup

Please refer to the test setup photo.

3. Method of measurement

3.1. EME measurements made on trunk mounted antennas

3.1.1. External/Bystander vehicle EME measurement

(Antenna mounted in trunk center)

With the field meter and probe, take ten (10) measurements, at the standard test distance of 60 cm to the antenna, from the back of the vehicle in a vertical line and then average the results. These measurements are taken and recorded at every twenty (20) centimeters over a range starting at twenty (20) centimeters above ground and ending at 2.0 meters.

The offered antennas mounted at the center of the trunk were assessed at the rear of the vehicle while maintaining a minimum of twenty (20) centimeter separation distance between the probe sensor and vehicle body. The worst case tested at a 45° radial at the corner of the trunk, and 90° radial at the side of the trunk.

3.1.2. Internal /Passenger vehicle EME measurement

(Antenna mounted in trunk center)

While rotating field meter probe through 180 degrees to ensure that the highest level is found, scan the inside of the vehicle, both front and back seating areas, for the highest level in each location. After the highest level is found, scan vertically making two (2) additional measurements within an area approximately 40 cm wide (representing the width of a person) so as to have a total of three (3) measured points as indicated below that will be averaged.

- a) Head area
- b) Chest area
- c) Lower Trunk area

3.2. EME measurements made on center roof mounted antennas

3.2.1. External/Bystander vehicle EME measurement

With the field meter and probe, take ten (10) measurements, at the standard test distance of 110 cm from the vehicle-mounted antenna, The measurement probe is positioned orthogonal to antenna (typically parallel to ground with a vertically mounted antenna) and tested around the car in 35 degree steps among 180dregee, aimed directly at the antenna's axis. Recorded worst case at positioned orthogonal to antenna (typically parallel to ground with a vertically mounted antenna); Then average the results. These measurements are taken and recorded at every twenty (20) centimetres over a range starting at twenty (20) centimetres above ground and ending at 2.0 meters; this would be representative of a person standing next to a vehicle during a mobile radio transmission.

3.2.2. Internal/Passenger vehicle EME measurement

The probe handle is oriented parallel (horizontal) to the ground and pointed towards the back of the vehicle. The probe handle is not oriented normal to the seat surface. The probe head (incorporating the field sensors) is scanned continuously (using the max-hold function available in the meter) along three test axes which are parallel to the seat angle (intended as the line determined by the intersection of the plane of the seat and the plane of the backrest) and are 20 cm from the seat surface. One test axis is at the Head height, another is at the Chest height, and another is at the Lower Trunk height. The maximum field level value recorded for each test axis is logged. The MPE is determined by averaging these three maximum values regardless of the

geometrical location where they were observed. For instance, the locations of the three maxima may lie on different vertical (relative to ground) lines.

While rotating field meter probe through 180 degrees to ensure that the highest level is found, scan the inside of the vehicle, both front and back seating areas, for the highest level in each location. After the highest level is found, scan vertically making two (2) additional measurements within an area approximately 40 cm wide (representing the width of a person) so as to have a total of three (3) measured points as indicated below that will be averaged.

a) Head area

b) Chest area

c) Lower Trunk area

FCC ID: 2ABUBSPM6050

Report No.: LCS1606231829E

4. Approved Accessories

Antenna:

Model: TQC-150DII Roof Mount: 450MHz-520MHz Gain: 3.65dBi

Vehicle:

Band: BYD Model: F6

5. Test Result

The following table's present detailed MPE measurement information for each test configuration; person external or internal to the vehicle, TX frequency, antenna (location, model and gain), distance from antenna to probe sensor, E/H field measurements, calibration factor, MPE average over body, initial power, power density calc, power density max calc, IEEE controlled and uncontrolled limits and maximum output power.

The Average over Body test methodology is consistent with IEEE/ANSI C95.3-2002 guidelines

MPE results are based on a 50% duty cycle which is in accordance with the User Manual instructions.

Below is an explanation of how the MPE results are calculated.

External to vehicle - 10 measurements are averaged over the body (Body_Avg).

Internal to vehicle - 3 measurements are averaged over the body (Body_Avg).

ETS Field Meter measures in percent of the controlled limit. Therefore the averages over the body used in the calculations below reflect percentages

MPE results are based on a Push-To-Talk (PTT) 50% duty cycle in CW mode.

Therefore;

Average _ over _ Body = Body _ Avg *Controlled _ Limit

Pwr _ Density _ Calc = Average _ over _ Body * _ Duty _ Cycle

Pwr_Density _Max _Calc=Pwr_Density _Calc * <u>Max _Output _Power</u> Initial_Output _Power

Note; For Initial Output Power> Max_Output_Power, Max_Output_Power / Initial Output Power = 1

	Measurement Information									
Measurement Frequency (MHz)	450.025	467.775	511.9875							
Raw Data Power(W)	44.5656	44.7713	44.8745							
Controlled Limit(mW/cm ²)	1.5001	1.5593	1.7066							
Uncontrolled Limit(mW/cm ²)	0.30002	0.31186	0.34132							
Calibration	1.00	1.00	1.00							
Antenna / gain(dBi)	Whip / 3.65	Whip / 3.65	Whip / 3.65							
External Vehicle Power Density(50% duty)	Average over body/2									
Internal Vehicle Power Density(50% duty)	Average over (head/chest/leg)/2									

	Ex	ternal	Vehicle M	IPE As	ssessmen	nt at 450.1	25 M	Hz		
Antenna Location	Antenna/ gain	Di	Measurement Distance (cm)		g-		Pwr. Density (mW/cm ²)			
Trunk	Whip / 3.65		60		E	1.00		0.242	0.121	
	Measurement Grid									
Test position	Height (cm)		% of control limit	led		Sest Sition		Height (cm)	% of controlled limit	
1	20		6.11%	6		6		120	38.13%	
2	40		8.57%	6		7		140	25.55%	
3	60		19.12%			8		160	14.04%	
4	80		22.029	%		9		180	13.16%	
5	100		30.799	%		10		200	11.09%	

	Ex	ternal Vehicle I	MPE Assessme	nt at 467.7	75 MI	Hz				
Antenna Location	Antenna/ gain	/ Measurement Distance (cm) E/H Calibration Field Factor				Pwr. Density (mW/cm ²)				
Trunk	Whip / 3.65	60	E	1.00		0.288	0.144			
	Measurement Grid									
Test position	Height (cm)	% o contro limi	lled	Test osition		Height (cm)	% of controlled limit			
1	20	3.87	%	6		120	35.54%			
2	40	8.21	%	7		140	23.43%			
3	60	16.46	%	8		160	12.22%			
4	80	23.37	°%	9		180	10.36%			
5	100	30.12	%	10		200	8.18%			

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	External Vehicle MPE Assessment at 511.9875 MHz										
Antenna Location	Antenna/ gain	Distance		Distance E/H Calibration Field Factor		Pwr. Density (mW/cm ²)					
Trunk	Whip / 3.65		60		E	1.00		0.231	0.116		
	Measurement Grid										
Test position	Height (cm)		% of control limit	led		'est sition		Height (cm)	% of controlled limit		
1	20		5.05%	6		6		120	40.25%		
2	40		11.379	%		7		140	32.23%		
3	60		22.16	%		8		160	24.14%		
4	80		25.55	%		9		180	19.79 %		
5	100		34.19	%		10		200	17.17%		

	Ex	ternal Vehicle N	MPE Assessme	nt at 467.7	75 MI	Hz					
Antenna Location	Antenna/ gain	Measurement Distance (cm)	DistanceE/HCalibrationAverageFieldFactorOver Body				Pwr. Density (mW/cm ²)				
Roof	Whip / 3.65	60	E	1.00		0.174	0.087				
	Measurement Grid										
Test position	Height (cm)	% o control limi	lled po	Test osition		Height (cm)	% of controlled limit				
1	20	2.949	%	6		120	38.18%				
2	40	8.889	%	7		140	26.56%				
3	60	22.26	%	8		160	24.24%				
4	80	25.95	%	9		180	18.71 %				
5	100	32.27	%	10		200	14.62%				

	Internal Vehicle MPE Assessment at 450.025 MHz									
Antenna Location	Antenna Gain	Measurement Distance (cm)	E/H Field	Calibration Factor	Average ove Chest, I Back/Fron (mW/cr	Leg t Seats	Pwr. Density of Higher Level (mW/cm ²)			
Trunk	Whip / 3.65	Highest Reading	Е	1.00	0.258/0.102		0.129/0.051			
			Measure	ement Grid						
	Fest	% of control	led limit	% of conti	rolled limit % of e		controlled limit			
ро	sition	Head	ł	Ch	est	Leg				
Back Seat		19.22	19.22%		15.52%		14.13%			
Fro	nt Seat	10.249	%	8.6	3%		5.24%			

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	Internal Vehicle MPE Assessment at 467.775 MHz									
Antenna Location	Antenna Gain	Measurement Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Leg Back/Front Seats (mW/cm ²)		Pwr. Density of Higher Level (mW/cm ²)			
Trunk	Whip / 3.65	Highest Reading	Е	1.00	0.277/0.126		0.139/0.063			
			Measure	ement Grid						
	Fest	% of control	led limit	% of cont	olled limit % of		controlled limit			
ро	sition	Head	k	Ch	est	Leg				
Back Seat		30.149	30.14%		24.55%		13.77%			
Fro	nt Seat	14.239	%	10.6	52%		7.85%			

	Internal Vehicle MPE Assessment at 511.9875 MHz									
Antenna Location	Antenna Gain	Measurement Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Leg Back/Front Seats (mW/cm ²)		Pwr. Density of Higher Level (mW/cm ²)			
Trunk	Whip / 3.65	Highest Reading	Е	1.00	0.216/0.	0.216/0.098				
			Measure	ement Grid						
-	Test	% of control	led limit	% of cont	% of controlled limit		% of controlled limit			
ро	sition	Head	ł	Ch	est	Leg				
Back Seat		18.469	18.46%		15.42%		12.03%			
Front Seat		9.55%	9.55%		7.67%		4.99 %			

	Internal Vehicle MPE Assessment at 467.775 MHz								
Antenna Location	Antenna Gain	Measurement Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Leg Back/Front Seats (mW/cm ²)		Pwr. Density of Higher Level (mW/cm ²)		
Roof	Whip / 3.65	Highest Reading	Е	1.00	0.174/0.081		0.087/0.041		
			Measure	ment Grid					
-	Fest	% of control	led limit	% of cont	% of controlled limit		% of controlled limit		
ро	sition	Head	ł	Ch	est	Leg			
Back Seat		34.45	34.45%		25.44%		20.33%		
Fro	nt Seat	19.149	%	16.0)3%		12.27%		

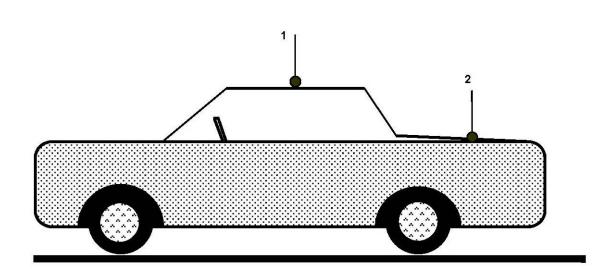
6. Conclusion

The measurement results comply with the FCC Limit Per 47 CFR 2.1091 (b) for the controlled RF Exposure.

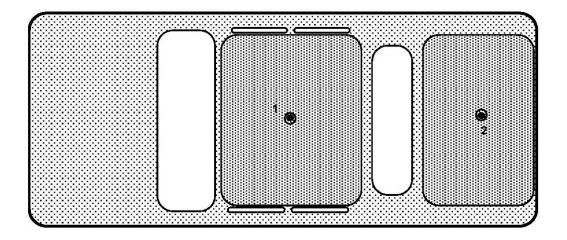
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Report No.: LCS1606231829E

7. Antenna Location Drawing



1 - Roof (center) 2 - Trunk (center)



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FCC ID: 2ABUBSPM6050

Report No.: LCS1606231829E



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Report No.: LCS1606231829E

	说	明		
	DIRECT	TIONS		
		证书编号(Certi	ficate No.) 2G	B14003170-0001
 本机构是国家质量监督 (国)法计(2012)00068 格评定国家认可委员会(C This laboratory is the legal Supervision, Inspection and Its quality management sys Accreditation Service for Confe 二本机构出具的数据均可测数 The data issued by this laborato 本次校准的技术依据(Refe 	号。质量管理体系符 CNAS)认可,认可证书 metrological institute au Quarantine of the Peop stem meets the ISO/IEC ormity Assessment, No. CN 原到国家计量基准和国 pry is traceable to national p	守合ISO/IEC 170 (今号为: CNAS L046 thorized by the Gene le's Republic of Chir C 17025 and is accre AS L0462. 际单位制(SI)。	025的要求, 2。 ral Administrat ha, No. (国)法计 edited by the C	获得中国合 ion of Quality ·(2012)00068. hina National
IEEE 1309-2005、JJG 561-1	988			
.本次校准所使用的主要测量	量标准 (Main measureme	ent standards used dur	ing the calibration	on):
名称 Description 电场探头	技术指 Specific ±2.5dB		有效期至 Due Date 2014-08-16	证书编号 Certificate No. XDdj2013-2663
封闭式50Ω带状线 (TEM小室)	VSWR: Ur=5.0%(k=2) =0.01dB(k=2),阻抗:		2014-08-21	XDdj2013-2701
功率放大器	Gain: ≥47dB; Gain Fl	atness: ±1.5dB	2015-01-17	4GC14000016-0004
EPM-P系列双通道功率计/ EPM-P Series Dual Channel Power Meter ESG矢量信号发生器/ESG Vector Signal Generator	P: ±0.5% f: ±1×10-7; L: ±0.5d FM:±3.5%; φM: ±5% s (k=2); 幅度误差:); 相位误差: 0.25(°)	B; AM: ±5%; ; EVM: 0.5%rm 0.35%rms (<i>k</i> =2		4GC13000316-0002 4GC13000245-0001
· 软准抽点 (The leastion whe				
5. 校准地点(The location when 赛宝计量检测中心广州实验室		arried out):		
.环境条件(Environmental co 温度(Temperature): 23 ℃ .证书数据页中"P"代表"合?	相对湿度(Re	lative Humidity): 60 % '. "N/A"代表"不话		
(In the data sheet,"P" stands for				
注:1.本证书未经本机构书面 (The certificate shall not	i授权,不得部分复制。 be partly reproduced withc	ut written approval of t	he laboratory.)	

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 SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.
 FCC ID: 2ABUBSPM6050

Report No.: LCS1606231829E

外观检查(Appearance	Check)				
					结论
					(Pass/Fail)
					Р
幅值线性(Amplitude I	inearity)				
频	軺	标准场强	指示值	校准因子	
(Frequ	ency)	(Reference)	(Indicated)	Cal Factor	
(MH	Iz)	(V/m)	(V/m)	()	
30	1	2.00	2.54	0.787	
30	1.	10.00	11.76	0.850	
30		20.00	22.78	0.878	
30		30.00	34.29	0.875	
30		50.00	55.43	0.902	
30		80.00	89.89	0.890	
30		100.00	112.23	0.891	
交准因子(Calibration F	actor)				
频率	R	标准场强	指示值	校准因子	
(Freque	ency)	(Reference)	(Indicated)	Cal Factor	
(MH	z)	(V/m)	(V/m)	()	
10		20.00	21.93	0.912	
30		20.00	22.78	0.878	
50		20.00	22.15	0.903	
100		20.00	22.65	0.883	
200		20.00	22.03	0.908	
300		20.00	22.10	0.905	
400		20.00	20.77	0.963	
500		20.00	25.61	0.781	
600		20.00	27.06	0.739	
700		20.00	29.20	0.685	
800		20.00	34.42	0.581	
900		20.00	22.22	0.900	
1000		20.00	29.11	0.687	
				用但一切用出来。	
牧据页(Data sheet)		ID: Q07728	2	Pa	ge 3 of 4

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Report No.: LCS1606231829E



赛宝计量检测中心

CEPREI	CEPREI CALIBRATION &	TESTING CENTER	证书编号(Certif	icate No.) : 2GB14003170-0001
3 校准因	子(Calibration Factor)(C	ont'd)		
	频率	标准场强	指示值	校准因子
	(Frequency)	(Reference)	(Indicated)	Cal Factor
	(GHz)	(V/m)	(V/m)	()
	2	20.00	19.92	1.004
	3	20.00	19.14	1.045
	4	20.00	18.52	1.080
	5	20.00	17.64	1.134
	6	20.00	18.52	1.080

附(Appendix):
关于测量结果不确定度的说明
(Directions of measurement uncertainty)
1 依据 (Reference Document)

JJF 1059.1-2012 测量不确定度评定与表示 (JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

2本次测量结果的扩展不确定度(The expanded uncertainty of the measurement results)(k=2)

2.1 校准因子(Calibration Factor)

1.1dB@(DC~300MHz) 1.4dB@(300MHz~1GHz) 1.8dB@(1GHz~18GHz)

以下空白/No data hereafter

数据页(Data sheet)

ID: Q077282

Page 4 of 4

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.....The End of Report.....

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