1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

 Telephone:
 +86 (0) 21 6140 2666

 Fax:
 +86 (0) 21 5450 0954

 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 1 of 47

## **EMC TEST REPORT**

Application No.:	SHEMO080400012TL
Applicant:	T&A Mobile Phones
Equipment Under	Test (EUT):
NOTE: The following sa EUT Name:	ample(s) submitted was/were identified on behalf of the client as GSM Mobile Phone
Model Name:	U81A
Market Name:	OT-S120A
Standards:	CFR 47 part 2: 2004,
	CFR 47 Part 15: 2005,
	ANSI C63.4: 2003
Date of Receipt:	April 18, 2008
Date of Test:	April 18, 2008 to April 23, 2008
Date of Issue:	April 24, 2008
Test Result :	PASS*

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

Authorized Signature:

Tino Pan E&E Section Manager SGS-CSTC Co., Ltd.

Kenson Shen

Benson Shen E&E EMC Engineer SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the

This report may only be reproduced and distributed in full. 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.

All test results in this report can be traceable to National or International Standards.

Member of the SGS Group (SGS SA)

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 2 of 47

## 2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result	
Radiated Emission	CFR 47 Part 15	ANSI C63.4: 2003	Class B	PASS	
30MHz-1000MHz	CFK 47 Part 13	ANSI C03.4. 2005	Class B	PASS	
Conducted Emission	CFR 47 Part 15	ANSI C63.4: 2003	Class B	DASS	
150KHz-30MHz	UFK 47 Part 15	ANSI C03.4: 2005	Class B	PASS	

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 3 of 47

Page

## **3** Contents

1	COV	ER PAGE	1
-	001		
2	TEST	Г SUMMARY2	2
3	CON	TENTS	3
4	GEN	ERAL INFORMATION4	1
	4.1 (	CLIENT INFORMATION4	1
	4.2 0	GENERAL DESCRIPTION OF E.U.T4	1
	4.3 I	DESCRIPTION OF SUPPORT UNITS4	1
	4.4 \$	STANDARDS APPLICABLE FOR TESTING	5
	4.5	Γεst Locationθ	5
	4.6	Fest Confident level $\epsilon$	5
	4.7	Abnormalities from Standard Conditions6	5
5	EQU	IPMENT USED DURING TEST7	7
6	EMIS	SSION TEST RESULTS	3
	6.1 I	RADIATED EMISSIONS, 30MHz TO 1GHz8	3
	6.1.1	E.U.T. Operation	3
	6.1.2	Test setup:9	<b>)</b>
	6.2 <b>(</b>	Conducted Emissions, 150kHz to 30MHz26	5
	6.2.1	E.U.T. Operation	5
	6.2.2	Test Result and Partial Measurement Data26	5
7	EQU	IPMENT UNDER TEST PICTURES43	3
7	<b>EQU</b> 7.1.1	<b>IPMENT UNDER TEST PICTURES</b> 43         Radiated Emission Test Setup       43	
7	_		3

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 4 of 47

## 4 General Information

#### 4.1 Client Information

Applicant:	T&A Mobile Phones
Address of Applicant:	3/F, B2 Block, Digital Technology Yard, Gaoxin Nan Qi Road, Nan
	Shan District, Shenzhen, Guangdong, P.R.China

### 4.2 General Description of E.U.T.

EUT Name:	GSM Mobile Phone
Model No.:	U81A
Marketing Name:	OT-S120A
Frequency Bands	GSM850/PCS1900
Power Supply1:	AC to DC charger (Model No.: T5002684AGAA Input: AC 100V-
	240V~, 50/60Hz 150mA Output:DC 5.0V, 500mA)
	Manufactures: Tenpao
Power Supply2:	AC to DC charger (Model No.: T5002684AGAB Input: AC 100V-
	240V~, 50/60Hz 150mA Output:DC 5.0V, 500mA)
	Manufactures: SCUD
Power cord:	2m
Battery1:	DC 3.7V / 670mAh
-	P/N: CAB2001010C1
	Manufacturers: BYD
Battery2:	DC 3.7V / 670mAh
	P/N: CAB2001010C2
	Manufacturers: Coslight
Earphone:	Model No.: CCA3010000E0

## 4.3 Description of Support Units

The EUT has been tested as an independent unit.

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 5 of 47

### 4.4 Standards Applicable for Testing

### CFR 47 part 2: 2004, CFR 47 Part 15: 2005, ANSI C63.4: 2003

#### Table 1 : Tests Carried Out Under CFR 47 Part 15: 2005 :

Standard		Status
FCC Part 15 Subpart B: 2005	Radiated Emission	$\checkmark$
FCC Part 15 Subpart B: 2005	Conducted Emission	$\checkmark$
$\times$ Indicates that the tes	t is not applicable	

 $\sqrt{}$  Indicates that the test is applicable

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 6 of 47

#### 4.5 Test Location

The tests of Radiated Emissions was performed at:

SIMT EMC Laboratory, 1/F, Building No.1, No.716 Yi shan Road, Shanghai, P.R.China. Tel: +86 21 64701390 Fax: +86 21 64514252

Conducted Emission was performed at SGS E&E EMC lab

SGS-CSTC EMC Laboratory, No.889 Yishan Road, Shanghai, P.R.China Tel:+86 21 61402666 Fax: +86 21 54500954

#### 4.6 Test Confident level

Test Confident level is recognized, certified, or accredited by the following organizations:

#### NVLAP - Lab Code: 200632-0

SIMT EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200632-0. Effective dates: 2008-01-01 through 2009-12-31.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room of SIMT have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: 1153. Date of Registration:May 19, 2004. Valid until May 18, 2007

#### CNAL – LAB Code: L0134

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2005 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements for the Competence of Testing Laboratories.)

#### FCC – Registration No.: 142171

SIMT EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 142171. Effective dates: November 30, 2005 through November 30, 2008. With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

#### 4.7 Abnormalities from Standard Conditions

None.

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 7 of 47

## 5 Equipment Used during Test

RE in SAC         ETSI EN 301 489-1: EN 55022						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due date
1	HORN ANTENNA	R&S	HF 906	100023	2007-06-17	2008-06-16
	BROADBAND					
2	ANTENNA	R&S	HL 562	100019	2007-06-17	2008-06-16
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2008-03-06	2009-03-05
	UNIVERSAL RADIO					
4	COMMUNICATION					
	TESTER	R&S	CMU 200	100536	2008-01-25	2009-01-24

Conducted Emission ETSI EN 301 489-1: EN 55022						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2007-6-29	2008-6-28
2	Line impedance stabilization network	ETS	3816/2	00034161	2007-6-29	2008-6-28

#### **General Equipment**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Temperature, Humidity & Barometer	Oregon Scientific	BA-888	EMC0001 to EMC0004	2007-07-25	2008-07-24
2	DMM	Fluke	73	70681569 or 70671122	2007-07-23	2008-07-22

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 8 of 47

## 6 Emission Test Results

#### 6.1 Radiated Emissions, 30MHz to 1GHz

Test Requirement:	CFR 47 Part 15
Test Method:	ANSI C63.4, CISPR 22
Test Date:	April 18, 2008 to April 22, 2008
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m for ANSI C63.4 and 10m for CISPR 22
Class:	N/A
Detector:	Peak for pre-scan (120kHz resolution bandwidth)

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

**Operating Environment:** 

Temperature:25.0 °CHumidity:55 % RHAtmospheric Pressure:1012mbarEUT Operation:EUT allocated with adaptor in GSM850/PCS1900.

Note: We have performed all status and we just choose the worse case in this report,

1. we tested 15B emissions with power on EUT.

2. we tested 15B related emissions when carrier turn on.

\*\* Please note that: this is Pt.22/24 Tx device, not Pt.15C Tx device.

The carrier and related emissions test data is in Pt.22/24, we test carrier on emission for your reference.

3. we tested 15B emissions as a receiver when carrier turn off.

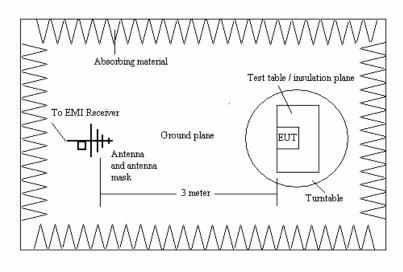
And we have found there is no additional emission happens in condition1 & condition2, so we have the condition 1 test result as the worst data shown in the report.

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 9 of 47

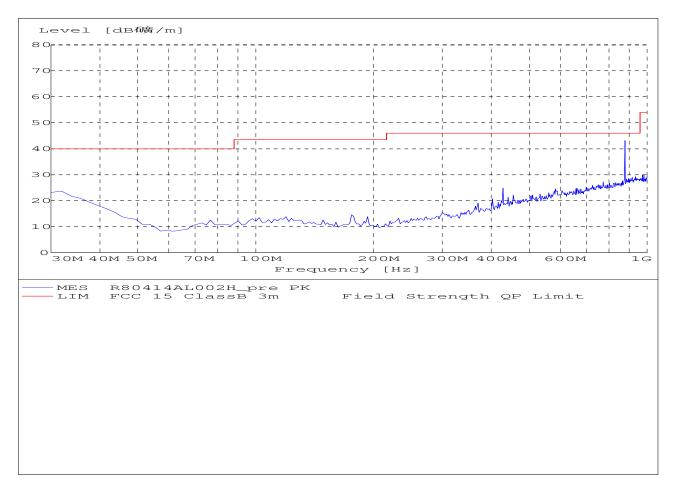
### 6.1.2 Test setup:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 10 of 47

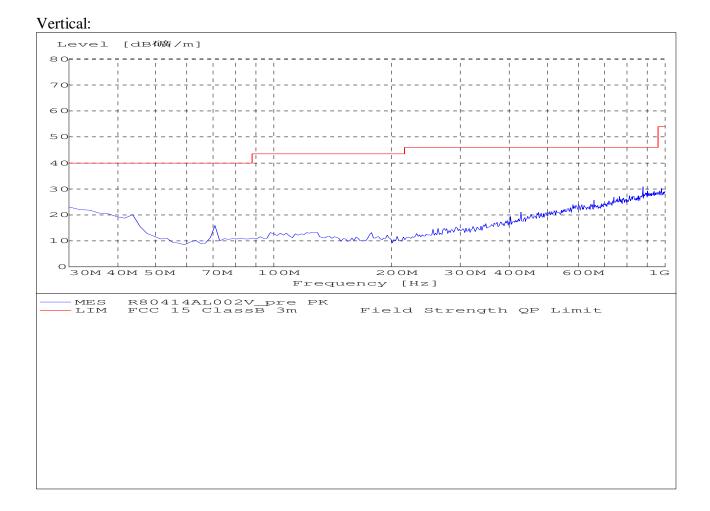
# GSM 850 idle mode: (connected with T5002684AGAA power adapter of Tenpao) Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

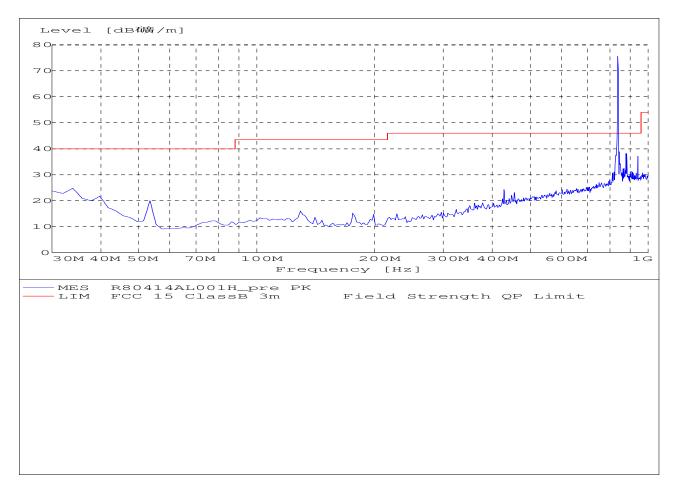
Report No.: SHEMO080400012TL Page 11 of 47



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

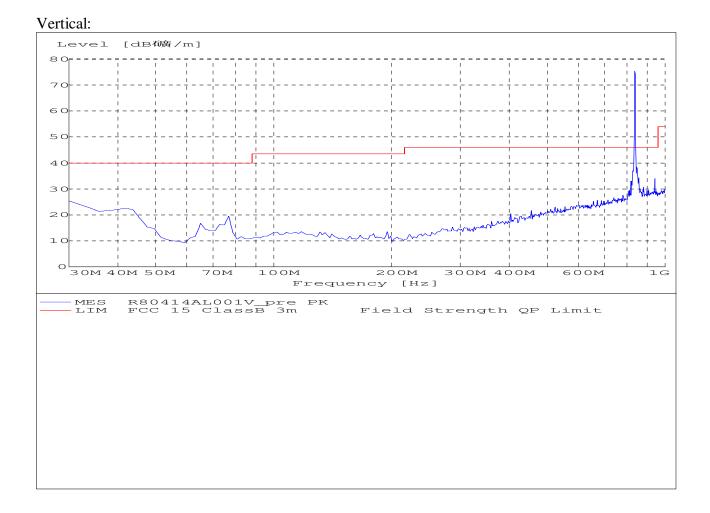
Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 12 of 47

# GSM 850 communication mode: (connected with T5002684AGAA power adapter of Tenpao) Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

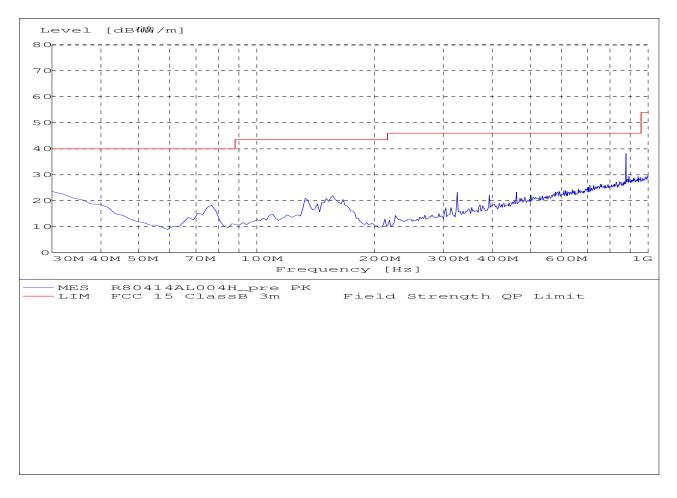
Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 13 of 47



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 14 of 47

# GSM 850 idle mode: (connected with T5002684AGAB power adapter of SCUD) Horizontal:



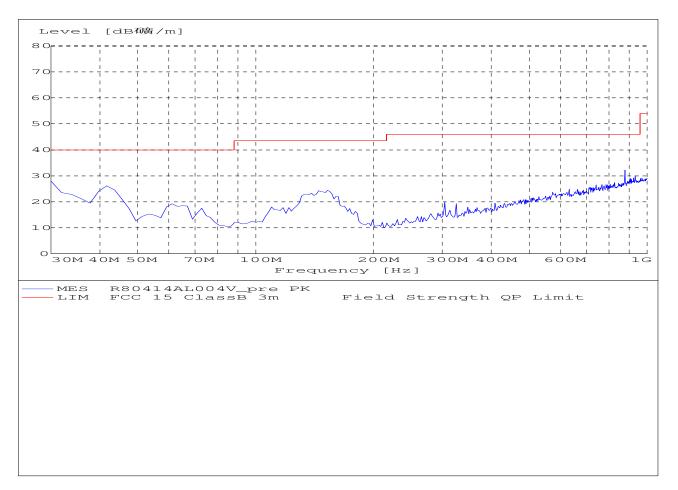
1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

 Report No.:
 SHEMO080400012TL

 Page
 15 of 47

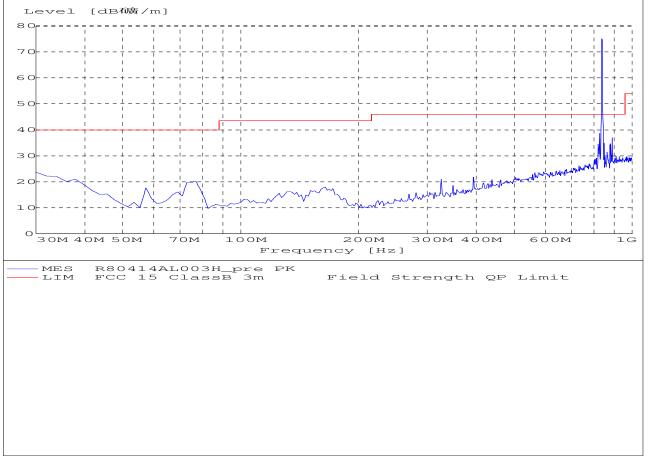
#### Vertical:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

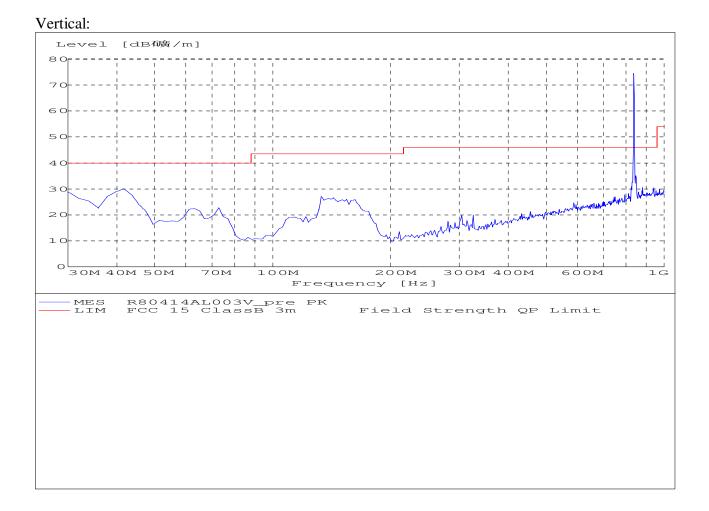
Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 16 of 47

# GSM 850 communication mode: (connected with T5002684AGAB power adapter of SCUD) Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

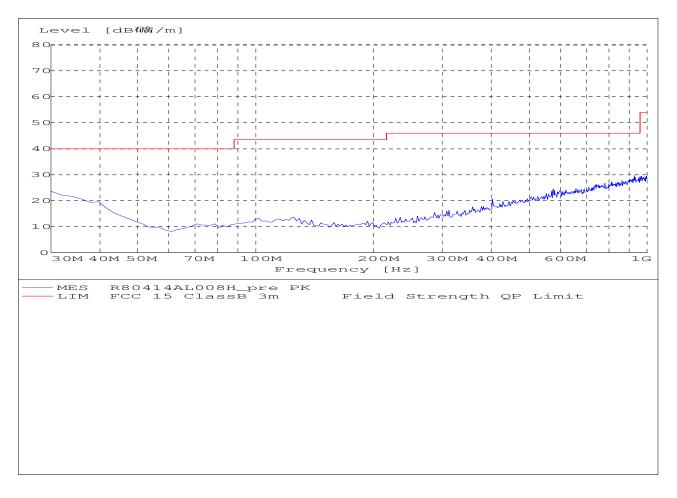
Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 17 of 47



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 18 of 47

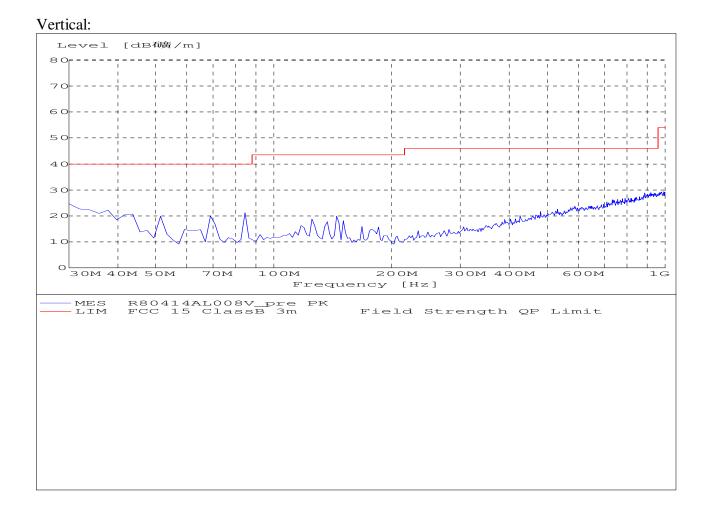
# PCS 1900 idle mode: (connected with T5002684AGAA power adapter of Tenpao) Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

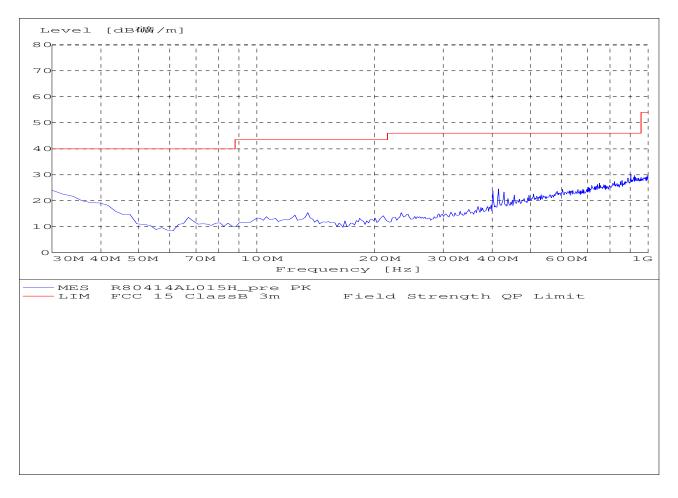
Report No.: SHEMO080400012TL Page 19 of 47



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 20 of 47

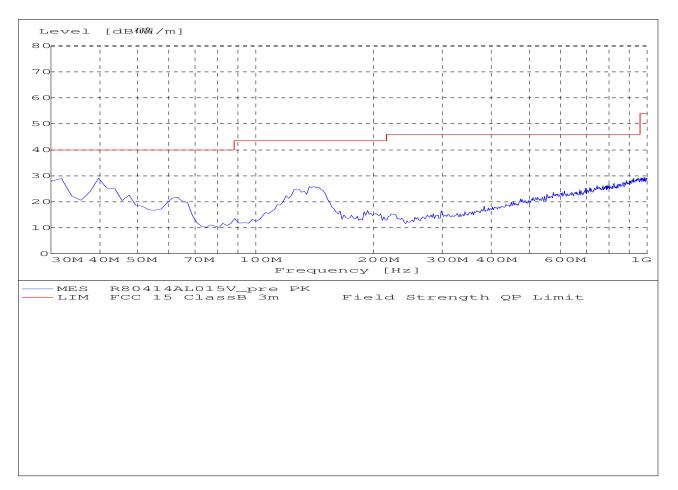
# PCS 1900 communication mode: (connected with T5002684AGAA power adapter of Tenpao) Horizontal:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 21 of 47

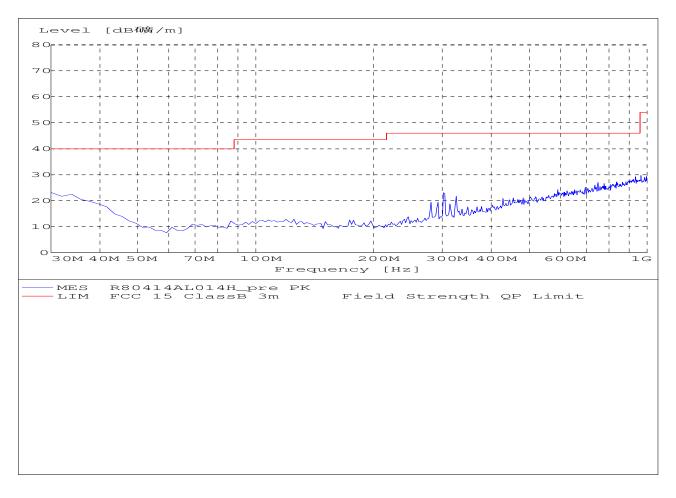
#### Vertical:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 22 of 47

# PCS 1900 Idle mode: (connected with T5002684AGAB power adapter of SCUD) Horizontal:



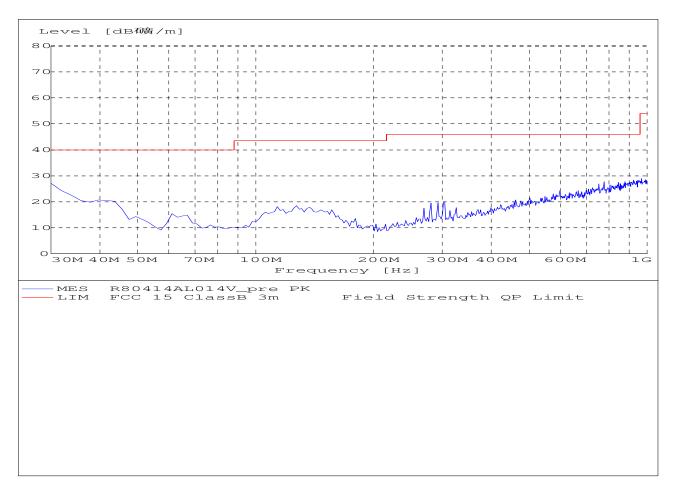
1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

 Report No.:
 SHEMO080400012TL

 Page
 23 of 47

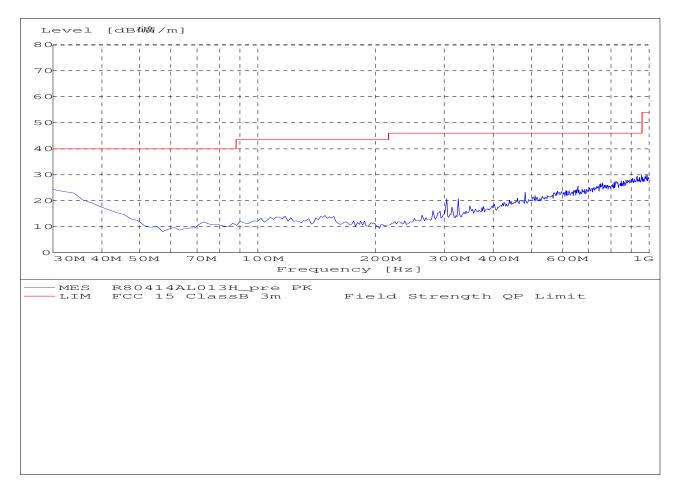
#### Vertical:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 24 of 47

# PCS 1900 communication mode: (connected with T5002684AGAB power adapter of SCUD) Horizontal:



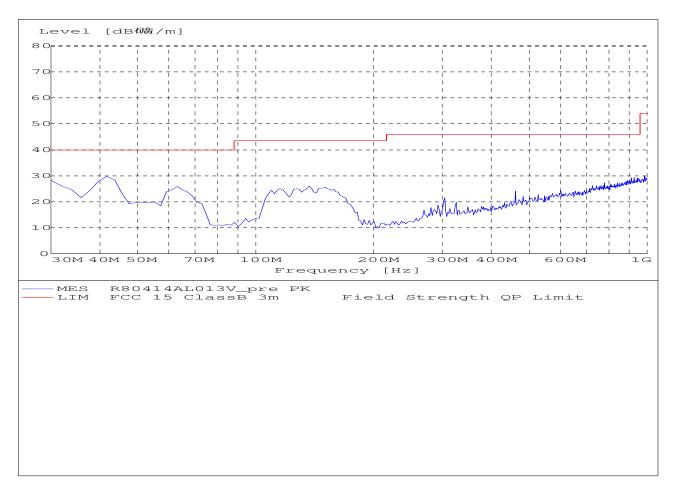
1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

 Report No.:
 SHEMO080400012TL

 Page
 25 of 47

#### Vertical:



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 26 of 47

## 6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15 Subpart B
Test Method:	ANSI C63.4
Test Date:	April 18, 2008 to April 22, 2008
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dBµV - 56 dBµVbetween 150kHz & 500kHz Quasi-peak
	56 dBµV between 0.5MHz & 5MHz Quasi-peak
	60 dBµV between 5MHz & 30MHz Quasi-peak

#### 6.2.1 E.U.T. Operation

**Operating Environment:** 

Temperature:23.0°CHumidity:50% RHAtmospheric Pressure:1012 mbarEUT Operation:EUT allocated with adaptor in GSM850/PCS1900.

### 6.2.2 Test Result and Partial Measurement Data

#### Pass

An initial pre-scan was performed in the Shielding room using the receiver in peak detection mode. The EUT was measured for 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

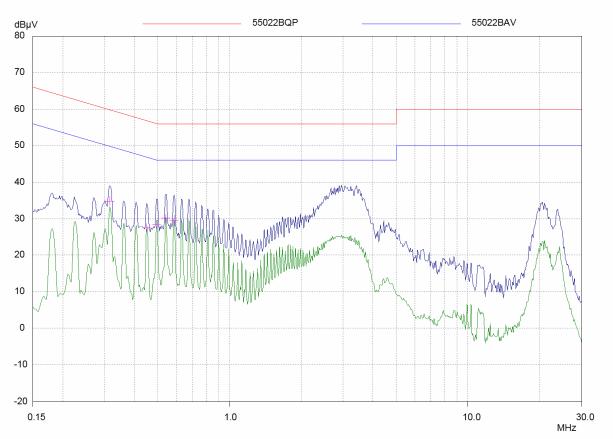
1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com 
 Report No.:
 SHEMO080400012TL

 Page
 27 of 47

### GSM 850 idle mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:

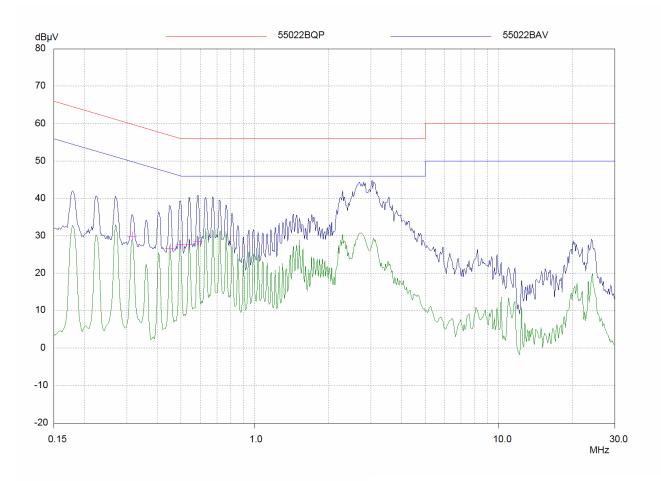


Ereg <mark>uency</mark> MHz	ΩP <i>∟ex</i> el dBµV	QP ∟imit dBµV	Q⊃ Delta d3
No results			
Frequency	AV Level	AV Limit	AV De <mark>l</mark> ta
MHz.	dBµV	dBµ∀	ಥಿ₿
0.31471	34,79	49,85	15.06
0.45044	27.42	46.87	19.45
0.49564	28.37	46.07	17.70
0.54104	30,15	46,00	15.85
0.58592	29.45	46.00	16.55

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 28 of 47



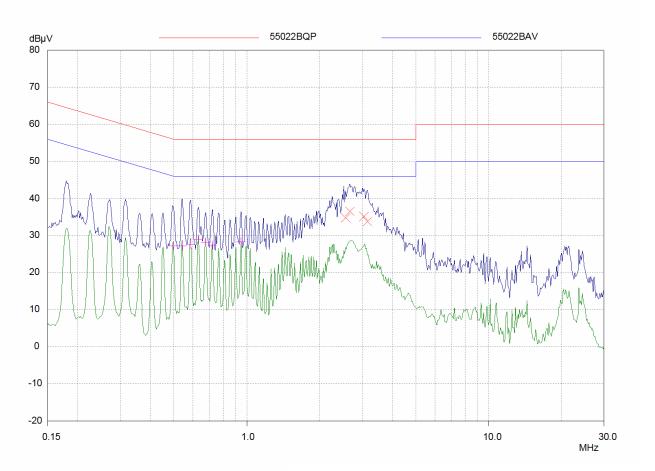
Frequency	Q⊇ Level	QP Limit	QP ⊃e <mark>t</mark> a
MHz	d3µV	dBµV	dB
No results			
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.31471	29.94	49.85	19.91
0.45044	28.57	48.87	20.30
0.49564	27.55	48.07	18.52
0.54104	27.49	48.00	18.51
0.58592	28.45	48.00	17.55

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 29 of 47

## GSM 850 communication mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:



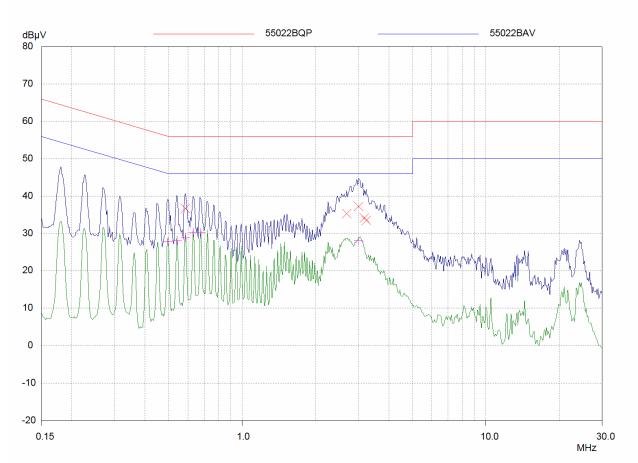
Frequency	QP <b>⊥eve</b> l	QP <b>∟imit</b>	QP Delta
MHz	dBμV	dBμV	dB
2,55882	34,80	56.00	21.20
2,66282	36,57	56.00	19.43
3,6491	35,18	56.00	20.82
3,14785	33,83	56.00	22.17
Frequency	AV _eve)	AV ⊥imit	AV Delta
MHz	dBµV	dBµV	dB
0.49564 0.54184 0.58592 0.62948 0.67628 0.67628 0.7208 0.94509	27.12 27.11 27.42 28.91 27.96 27.34 26.23	45.07 46.00 46.00 46.00 46.00 46.00 46.00	18.95 16.59 18.58 17.09 18.02 18.65 17.77

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 30 of 47

### N Line:



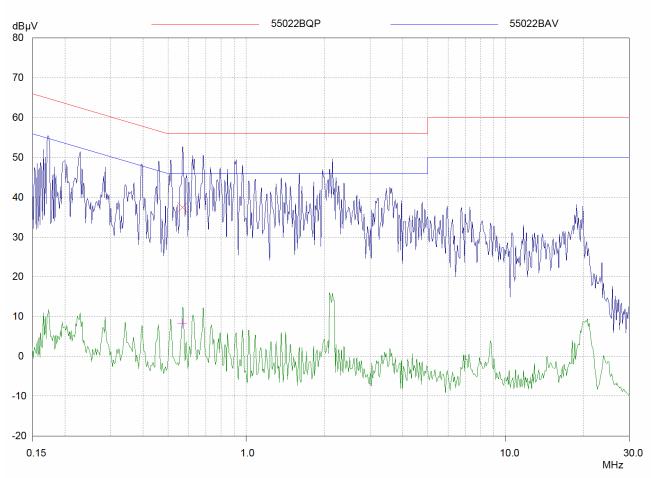
Freguency	ΩP <b>⊥evel</b>	QP ∟imit	QP Delta
MHz	dBμV	dBµV	d3
0.56592	36.66	56.00	19.34
2,86413	35.34	56.00	20.66
3.00089	37.24	56.00	18.76
3.17303	34.21	56.00	21.79
3.224	33.50	56.00	22.50
Frequency	AV _evel	AV ⊥imit.	AV Delfa
MHz	dBµV	dBµV	dB

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 31 of 47

### GSM 850 idle mode: (connected with T5002684AGAB power adapter of SCUD)

L Line:



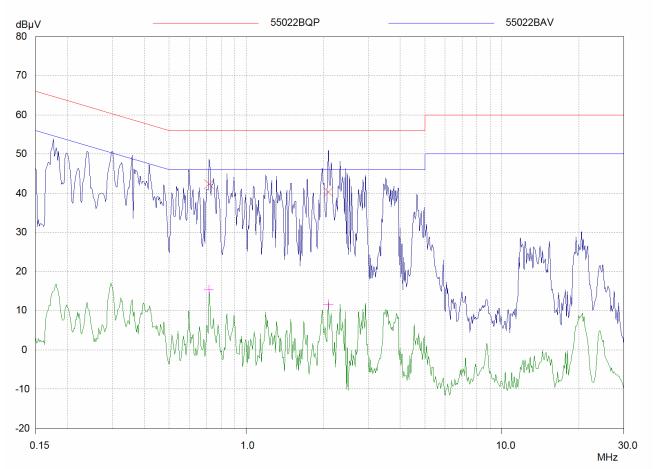
Final Measurement Results			
Frequency MHz	Q⊇ Level dBµV	QP Limit dBµV	QP ⊃eita dB
0.56754	37.50	58.00	18,50
Frequency MHz	AV Level dBµV	AV Limi: dBµV	AV Delta dB
0.56754	8.26	46.00	37.74

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 32 of 47

#### N Line:

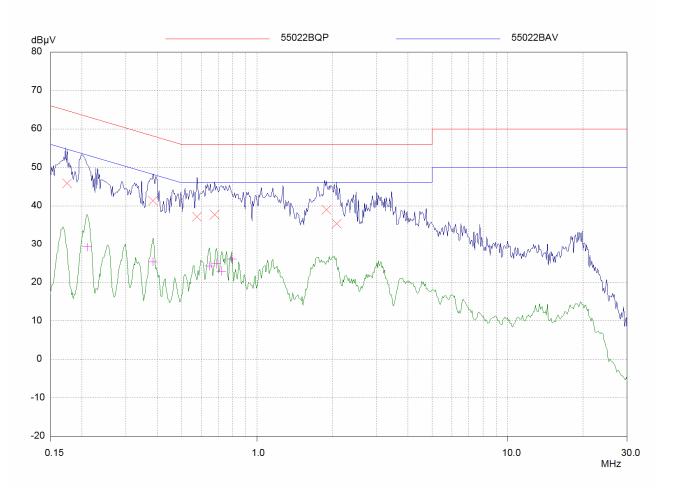


F <mark>requen</mark> sy	Q⊇ Level	QP Limit	QP Delta
MHz	d3µV	dBµV	dB
0.71508	42.28	56.00	13.72
2.09665	48.30	58.00	15.70
Frequency	AV Level	AV Limit	AV ⊃elta
MHz	dBµV	dBµV	dB
0.71508	15.28	46.00	30.72
2.09665	11.50	46.00	34.50

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 33 of 47

# GSM 850 communication mode: (connected with T5002684AGAB power adapter of SCUD) L Line:



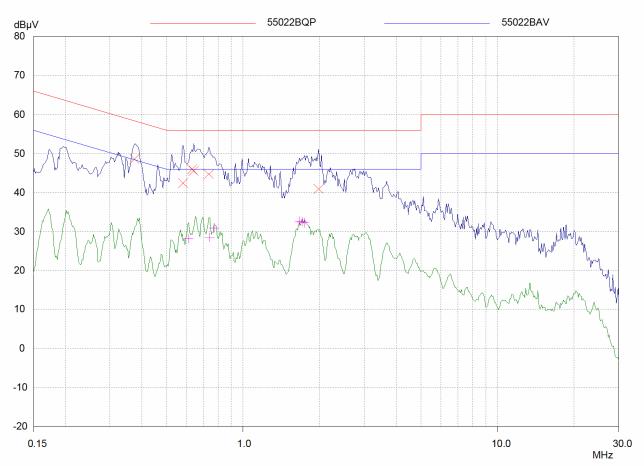
Frequency	QP <u>_evel</u>	QP <b>∟imit</b>	Q⊇ Delta
MHz	dBµV	dBµV	dB
0.17451	45,83	64,74	18.91
0.38409	41,30	58,19	16.89
0.57898	37,16	56,00	18.84
0.57828	37,58	56,00	18.32
1.89034	38,96	56,00	17.02
2.06001	35,38	56,00	20.62
Frequency	AV Level	AV _imit	AV Delta
MHz	dBµV	dBµV	dB
0.20962	29.19	53.22	24.03
0.38409	25.33	48.19	22.86
0.64471	24.23	46.00	21.77
0.68715	24.82	46.00	21.18
0.7206	22.90	46.00	23.10
0.79312	26.09	46.00	19.91

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 34 of 47

#### N Line :



Frequency	QP Level	Q⊇ Limit	QP Delta
MHz	d3µV	dBµV	dB
0.37501	48.57	58.39	9,82
0.58127	4 <u>2.45</u>	56.00	13,55
0.62948	45.93	58.00	10,07
0.63959	45.61	58.00	10.39
0.73238	44.72	56.00	11.28
1.98291	40.93	58.00	15.07
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.60974	28.03	46.00	17.91
0.73824	28.51	46.00	17.49
0.76824	30.98	46.00	15.02
1.68407	32.66	46.00	13.34
1.70432	32.54	46.00	13.46
1.74556	32.31	48.00	13.69

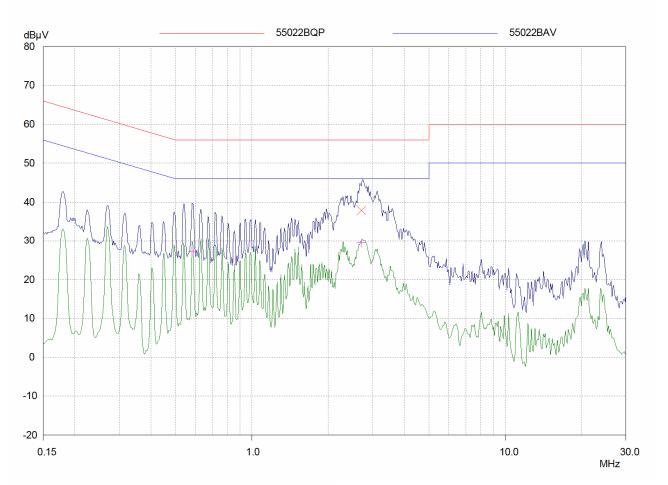
1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com 
 Report No.:
 SHEMO080400012TL

 Page
 35 of 47

## PCS 1900 idle mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:



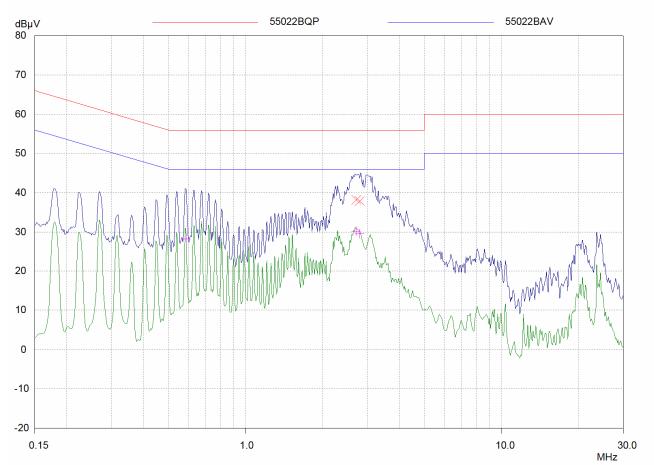
Frequency	Q⊇ Level	QP Limit	QP De <mark>lta</mark>
MHz	dBµV	dBµV	dB
2.7056	37.90	58.00	18,10
Frequency	AV Level	AV Limit	AV ⊃eita
MHz	dBµV	d∃μV	dB
0.58582	27.26	46.00	18.74
2.7056	29.43	48.00	18.57

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 36 of 47

### N Line:



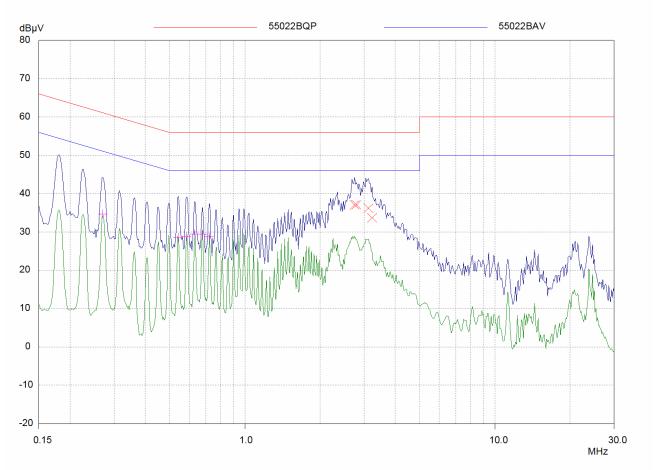
Frequency	QP Level	Q⊇ Lîmît	QP Delta
MHz	dBpV	dBµV	dB
2.7056	38.20	56.00	17.80
2.79322	37.86	58.00	18.14
Frequiency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.58582	28.10	46.00	17.90
2.7056	30.17	46.00	15.83
2.79322	29.49	45.00	16.51

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 37 of 47

# PCS 1900 communication mode: (connected with T5002684AGAA power adapter of Tenpao)

L Line:



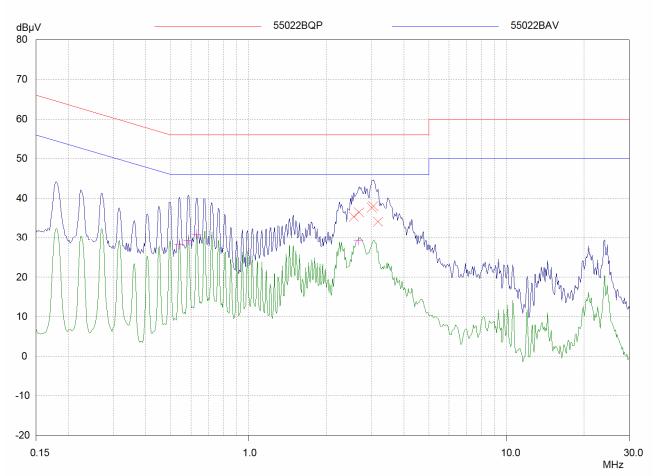
Frequency	QP <b>_evel</b>	QP ∟imit	QP Delta
MHz	dBµV	dBµV	dB
2.74906	37.13	58,00	18.87
2.79322	37.08	58,00	18.92
3.12287	36.23	58,00	19.77
3.224	33.74	58,00	22.26
Freguency	AV Level	AV Limit	AV De <mark>l</mark> ta
MHz	dBµV	dBμV	dB
0.2705	34.72	51.10	16.38
0.54104	28.41	48.00	17.59
0.58592	28.73	46.00	17.27
0.62948	28.52	46.00	16.48

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 38 of 47

### N Line:



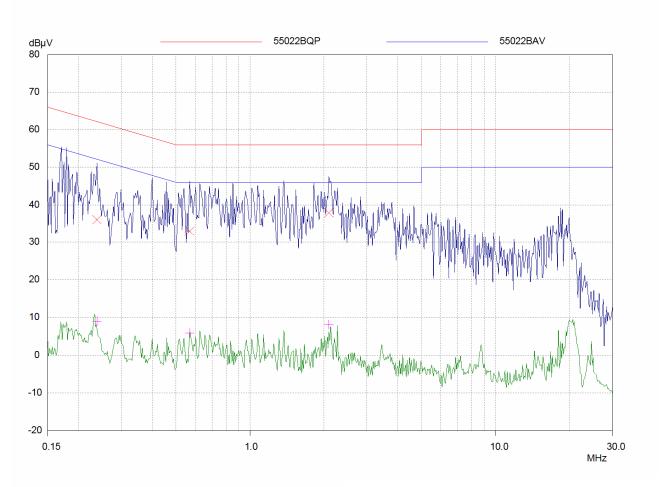
QP Level	QP Limit	QP Delta
d∋pV	d∋µV	dB
25 34	52 00	20.66
		19,55
	-	18.38
38.05	56.00	17.95
34.11	58.00	21.89
AV Level	AV Limit	AV De <mark>l</mark> ta
dBµ¥	dBµ∀	dB
28.21	48 (2)	17.79
	48.00	16.77
30.86	48.00	15,14
29.20	46.00	16.80
	dBpV 35.34 38.45 37.62 36.05 34.11 AV Level dBpV 28.21 28.23 30.85	dBµV     dBµV       35.34     56.00       38.45     56.00       37.62     56.00       36.05     56.00       34.11     58.00       AV Level     AV Limit       dBµV     dBµV       28.21     46.00       28.23     48.00       30.86     48.00

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 39 of 47

## PCS 1900 idle mode: (connected with T5002684AGAB power adapter of SCUD)

L Line:



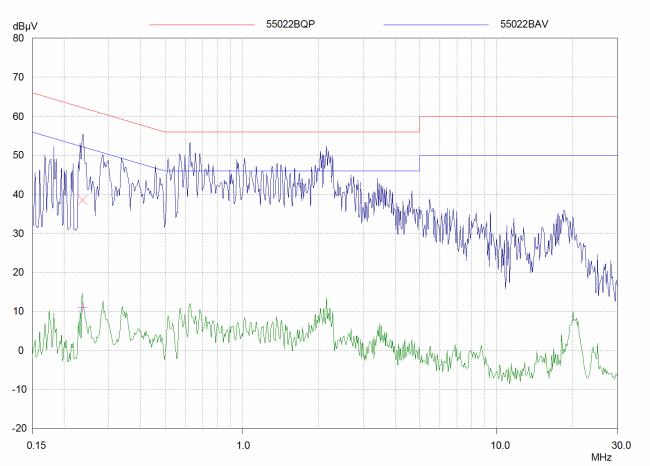
Frequency	Q⊇ Level	Q⊃ Limit	QP Delta
MHz	dBµV	dBµV	dB
0.23812	36.09	62.16	26.07
0.56754	32.94	58.00	23.08
2.09885	37.89	56.00	18.11
Frequency	AV Level	AV Lîmî:	AV Delta
MHz	dBµV	dBµV	dB
0.23812	8.69	52.16	43.17
0.56754	5.89	48.00	40.11
2.09865	8.09	46.00	37.91

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 40 of 47

#### N Line:

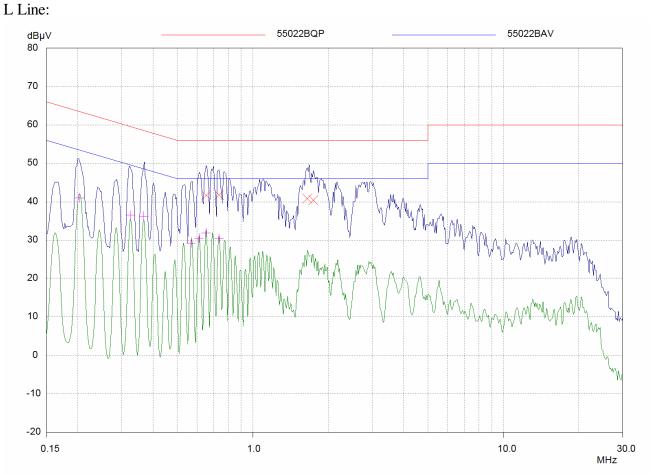


Frequency	QP Level	Q⊃ Limit	QP De <mark>lt</mark> a
MHz	dBµV	dBµV	dB
0.23623	38.56	62.23	23.67
Frequency	AV Level	AV Limit	AV Delta
MHz	dBµV	dBµV	dB
0.23623	10.95	52.23	41.28

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 41 of 47

## PCS 1900 communication mode: (connected with T5002684AGAB power adapter of SCUD)



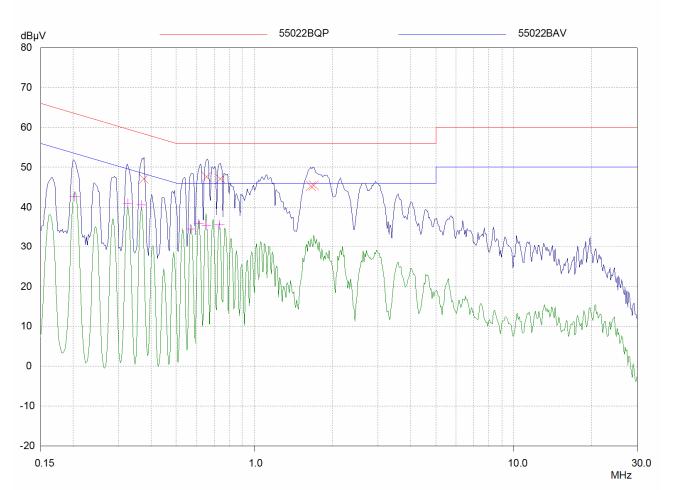
F <mark>requen</mark> cy	Q⊃ Level	Q⊇ Limit	QP Delta
MHz	d3µV	dBµV	dB
0.64697	41.85	56.00	14.35
0.73238	41.73	58.00	14.27
1.65086	40.83	56.00	15.17
1.74556	40.42	56.00	15.58
Frequency	AV Level	AV Limî:	AV Deba
MHz	dBµV	d∋µV	dB
0.20304	40.89	53,49	12.50
0.3249	36.50	49,58	13.98
0.36615	36.21	46,59	12.36
0.56754	29.23	46,00	16.77
0.60974	30.56	46,00	15.44
0.64967	31.90	46,00	14.10
0.73238	30.54	46,00	15.46

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 42 of 47

### N Line:



Frequency	QP Level	QP ∟imit	Q⊃ De <mark>l</mark> ta
MHz	dBµV	dBµV	d3
0.37501	47.05	58.39	11.34
0.85507	47.58	56.00	8.44
0.73824	47.06	56.00	8.94
1.65096	45.26	56.00	10.74
1.8908	45.43	56.00	10.57
Frequency	AV _exel	AV Limit	AV Delfa
Fraquency	AV _eve)	AV _imit	AV <b>Delta</b>
MHz	dBµV	dBµV	dB
MHz.	dBµ∀	dBµV	d∃
MHz.	dBµV	dBµV	d∃
	42.64	53.49	10.85
MHz	dBµV	dBµV	d∃
0.20304	42.64	53.49	10.85
0.3249	40.92	49.56	8.66
MHz	dBµ∀	dBµ∀	d∃
0.20504	42.64	53.49	10.85
9.3249	40.92	49.58	8.66
9.36615	40.47	48.59	8.12
MHz	dBµV	dBµ∀	d∃
0.20304	42.64	53.49	10.85
0.3249	45.92	49.58	8.66
0.36615	45.47	48.59	8.12
0.56754	34.51	46.00	11.4₽

1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

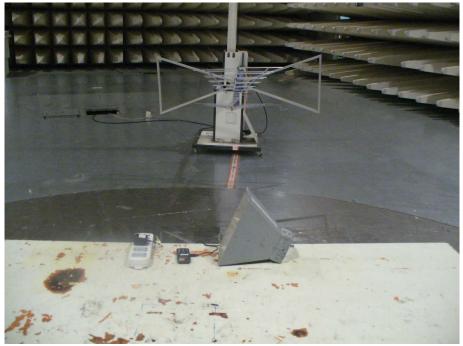
Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

 Report No.:
 SHEMO080400012TL

 Page
 43 of 47

## 7 EQUIPMENT UNDER TEST PICTURES

## 7.1.1 Radiated Emission Test Setup



7.1.2 Conductet Emission Test Setup



1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 44 of 47

### 7.1.3 EUT Constructional Details





1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

 Report No.:
 SHEMO080400012TL

 Page
 45 of 47





1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com

Report No.: SHEMO080400012TL Page 46 of 47





1/F, 4/F, 5/F, 6/F, 7/F, 8/F 9/F, 10/F, the 3rd Building No. 889, Yishan Road, Xuhui District, Shanghai, China

Telephone: +86 (0) 21 6140 2666 Fax: +86 (0) 21 5450 0954 Tino.Pan@sgs.com Report No.: SHEMO080400012TL Page 47 of 47



THE END OF REPORT