

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

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Report No.: SHEMO070700009IT  
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## ***FCC TEST REPORT***

**Application No.:** SHEMO070700009IT

**Applicant:** T&A Mobile Phones

**Equipment Under Test (EUT):**

**NOTE:** The following sample(s) submitted was/were identified on behalf of the client as

**EUT Name:** GSM Mobile Phone

**Model No.:** U7CA

**Marketing Name:** OT-E221A

**Item No.:** Not supplied by client

**Serial No.:** Not supplied by client

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

**Date of Receipt:** July 9, 2007

**Date of Test:** July 9, 2007 to July 16, 2007

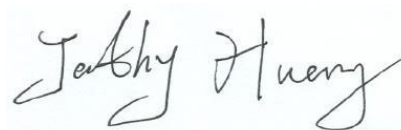
**Date of Issue:** July 18, 2007

<b>Test Result :</b>	<b>PASS</b>
----------------------	-------------

Authorized Signature:



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



Jathy Huang  
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 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.

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## 2 Test Summary

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

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## 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.: U7CA  
Marketing Name: OT-E221A  
Brand Name: Not supplied by client  
Serial No.: Not supplied by client

### 4.3 Details of E.U.T.

Power Supply01: AC to DC charger (Model NO: T5000436AGAA Input: AC 100V-  
240V~, 50/60Hz 0.15A Output:DC 5V, 400mA)  
Manufactures: Tenpao  
Power Cord01: 2m  
Power Supply02: AC to DC charger (Model NO: T5001448AGAA Input: AC 100V-  
240V~, 50/60Hz 100mA Output:DC 4.5V, 300mA)  
Manufactures: Tenpao  
Power Cord02: 2m  
Earphone: Model NO: T5001578AAAA  
Battery: DC 3.7V / 750mAh  
P/N: T5001298AAAA (BYD)  
P/N: T5001298AAAA (JINNENG)

### 4.4 Description of Support Units

Name / Function	Model No	Remark
N/A	N/A	N/A

### 4.5 Standards Applicable for Testing

The customer requested EMC tests for a GSM Mobile Phone.

The standards used was CFR 47 part 2: 2004 and CFR 47 part 15: 2005:

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**Table : Tests Carried Out Under CFR 47 Part 15: 2005 :**

Standard		Status
FCC Part 15 Subpart B: 2005	Radiated Emission	√
FCC Part 15 Subpart B: 2005	Conducted Emission	√

× Indicates that the test is not applicable  
√ Indicates that the test is applicable

## 4.6 Test Location

Radiated Emission was performed at:

SIMT EMC Laboratory, 1/F, Building No.1, Agriculture Machinery Materials Company  
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

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### 4.6 Deviation from Standards

None.

### 4.7 Abnormalities from Standard Conditions

None.

### 4.8 Monitoring of EUT for All Immunity Test

N/A

### 4.9 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 through December 31, 2004.

#### **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 29, 2004. Valid until May 18, 2007

#### **CNAL – LAB Code: L0134**

SIMT EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 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, Dcember 9, 2002.

With the above and NVLAP, SIMT is an authorized test laboratory for the DoC process.

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## 5 Equipments Used during Test

**Radiated Emission Test in  
Chamber CFR 47 part 15: 2005**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	HORN ANTENNA	R&S	HF 906	100023	2006.07.24	2007.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2006.10.10	2007.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2006.08.13	2007.08.13
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2006.09.01	2007.08.31

**Conducted Emission CFR 47 part 15: 2005**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	EMI TEST RECEIVER	R&S	ESCS 30	100070	2006.08.28	2007.08.27
2	ARTIFICIAL MAINS NETWORK	R&S	ESH2-Z5	100030	2006.09.19	2007.09.18
3	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2006.09.01	2007.08.31

**General Equipment**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Date
1	Temperature, Humidity & Barometer	Oregon Scientific	BA-888	EMC0001 to EMC0004	2006.07.25	2007.07.24
2	DMM	Fluke	73	70681569 or 70671122	2006.07.23	2007.07.22

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## 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:	July 9, 2007 to July 16, 2007
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)

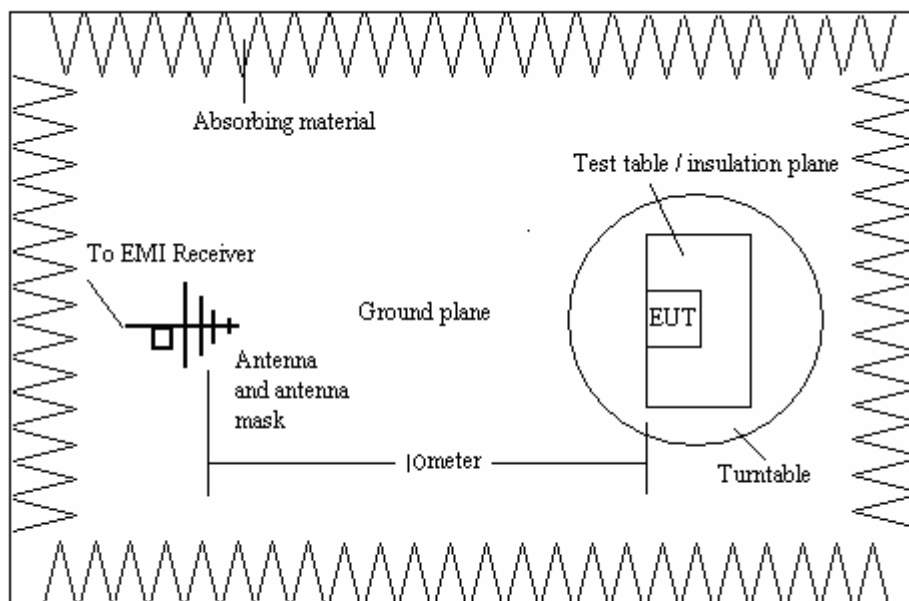
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0°C Humidity: 55 % RH Atmospheric Pressure: 1004 mbar

EUT Operation: EUT allocated channel mode Charging, GSM850, PCS 1900 with headset.

#### 6.1.2 Test setup:





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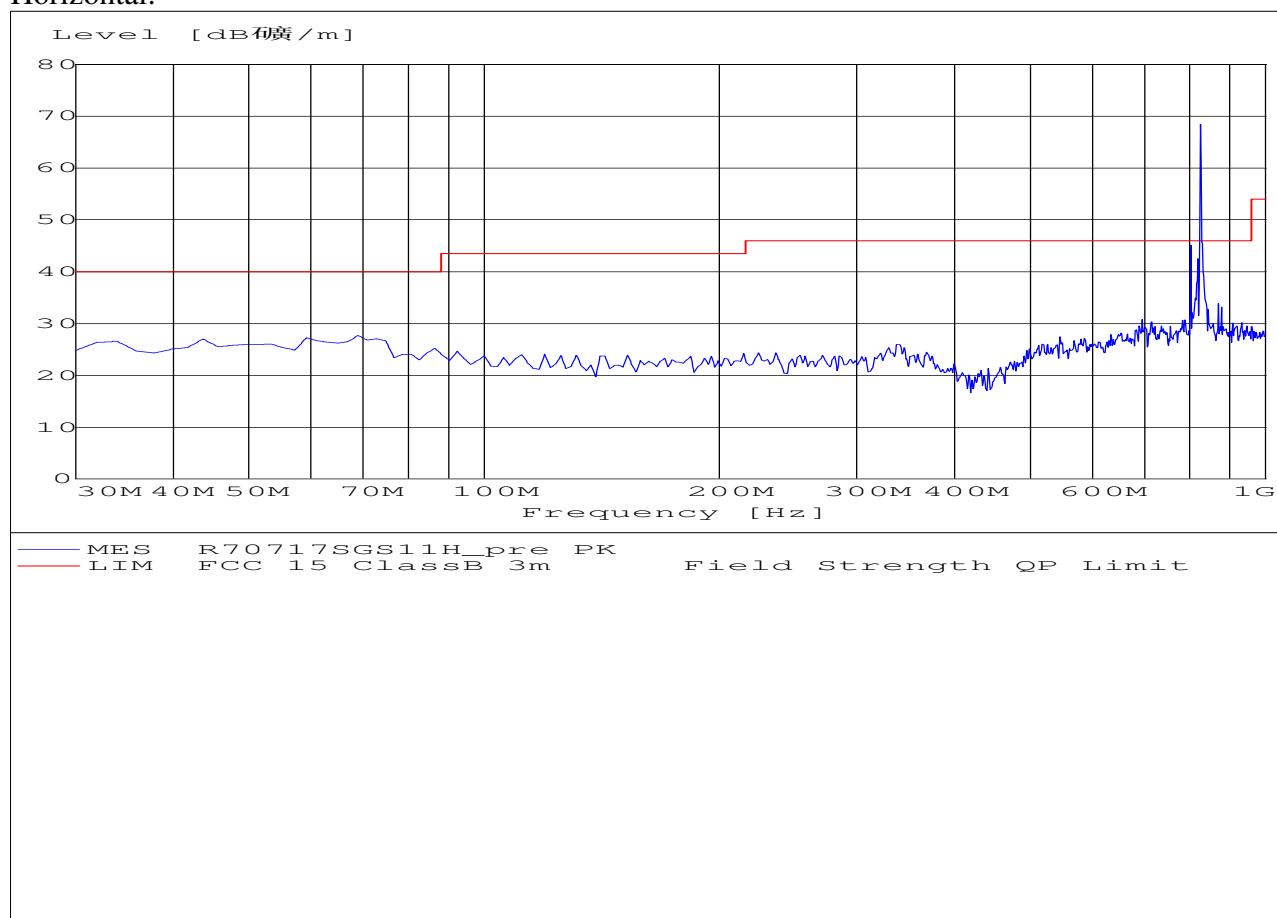
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## 6.1.3 Test Result:

GSM 850 connected: (test Mobile with T5000436AGAA of TenPao power adaptor.)

Horizontal:



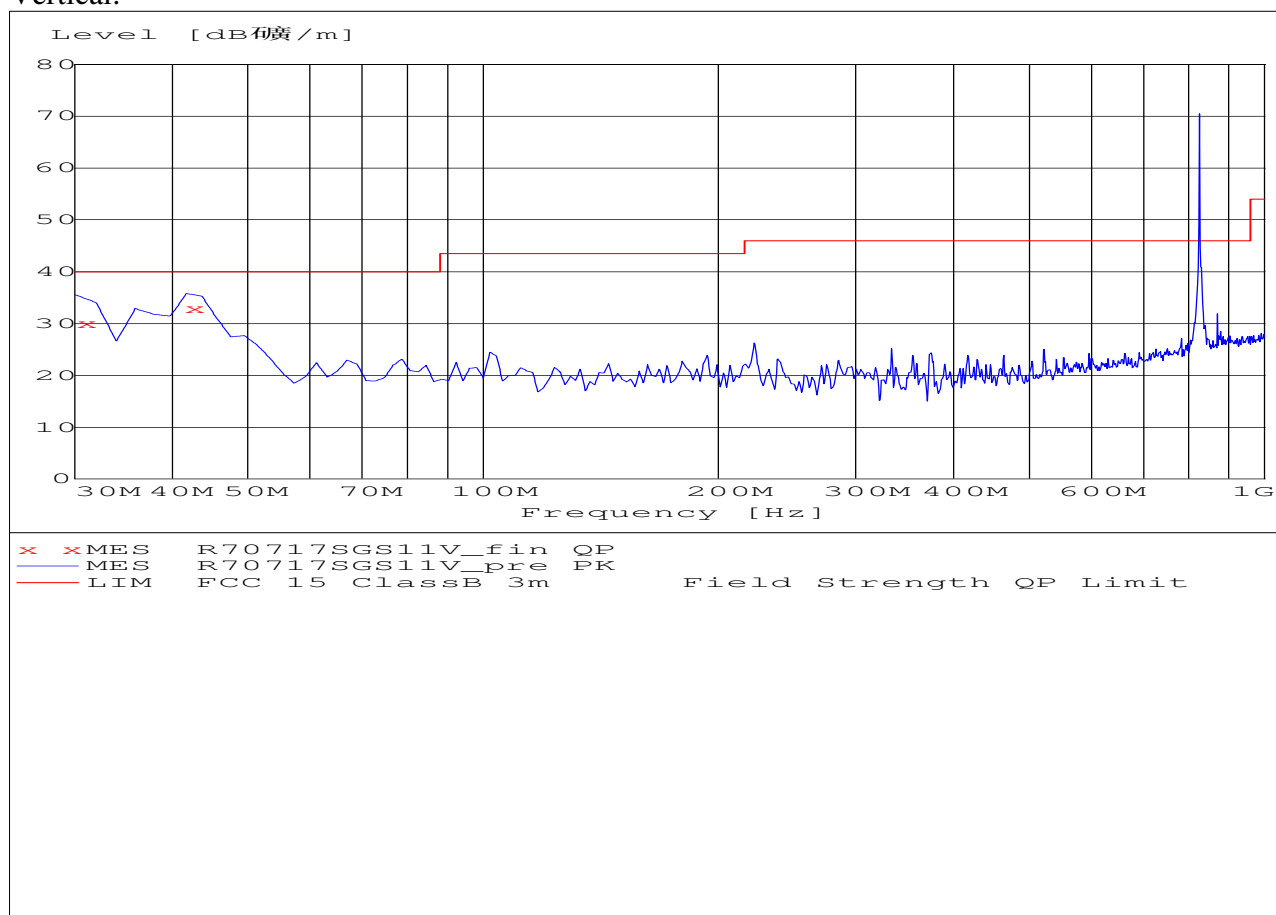
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
30.861720	29.86	100.0	250.00	VERTICAL	40.00	10.14
42.394790	32.89	100.0	60.00	VERTICAL	40.00	7.11

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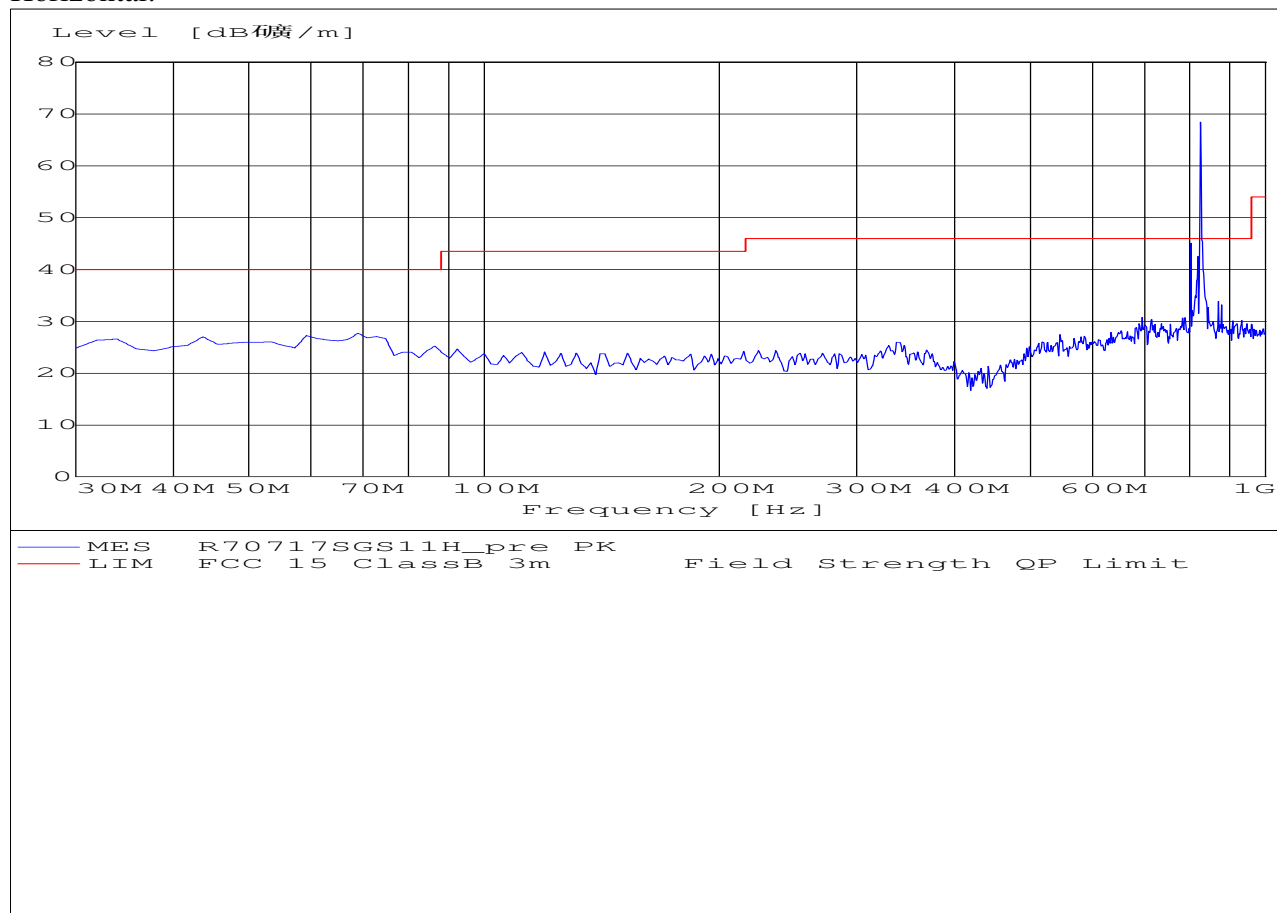
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GSM 850 connected: (test Mobile with T5001448AGAA of Tenpao power adaptor.)

Horizontal:



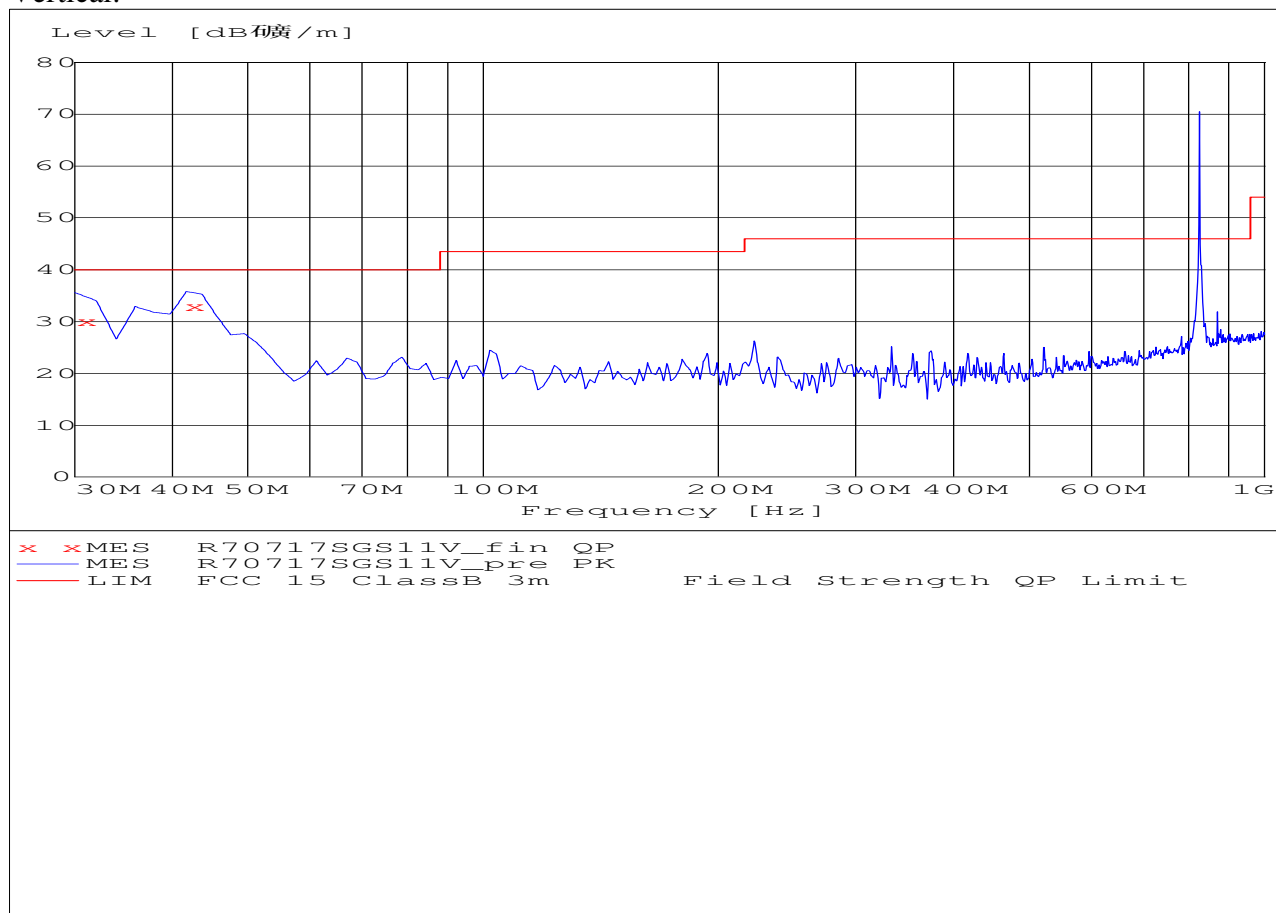
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## Vertical:



Frequency MHz	Level dB $\mu$ V/m	Height cm	Azimuth deg	Polarisation	Limit dB $\mu$ V/m	Margin dB
30.861720	29.86	100.0	250.00	VERTICAL	40.00	10.14
42.394790	32.89	100.0	60.00	VERTICAL	40.00	7.11

# SGS-CSTC Standards Technical Services Co., Ltd.

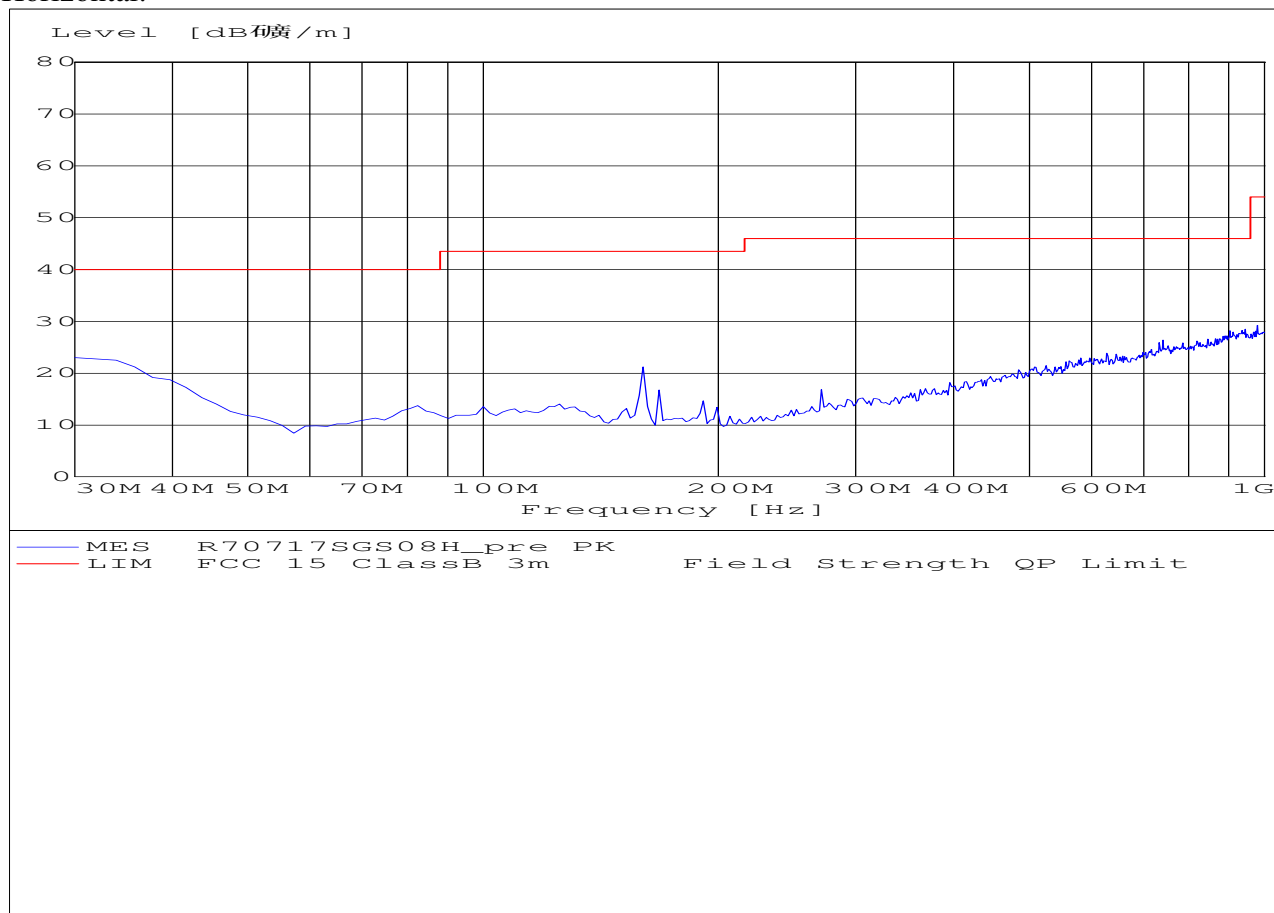
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PCS 1900 connected: (test Mobile with T5000436AGAA of Tenpao power adaptor.)

Horizontal:



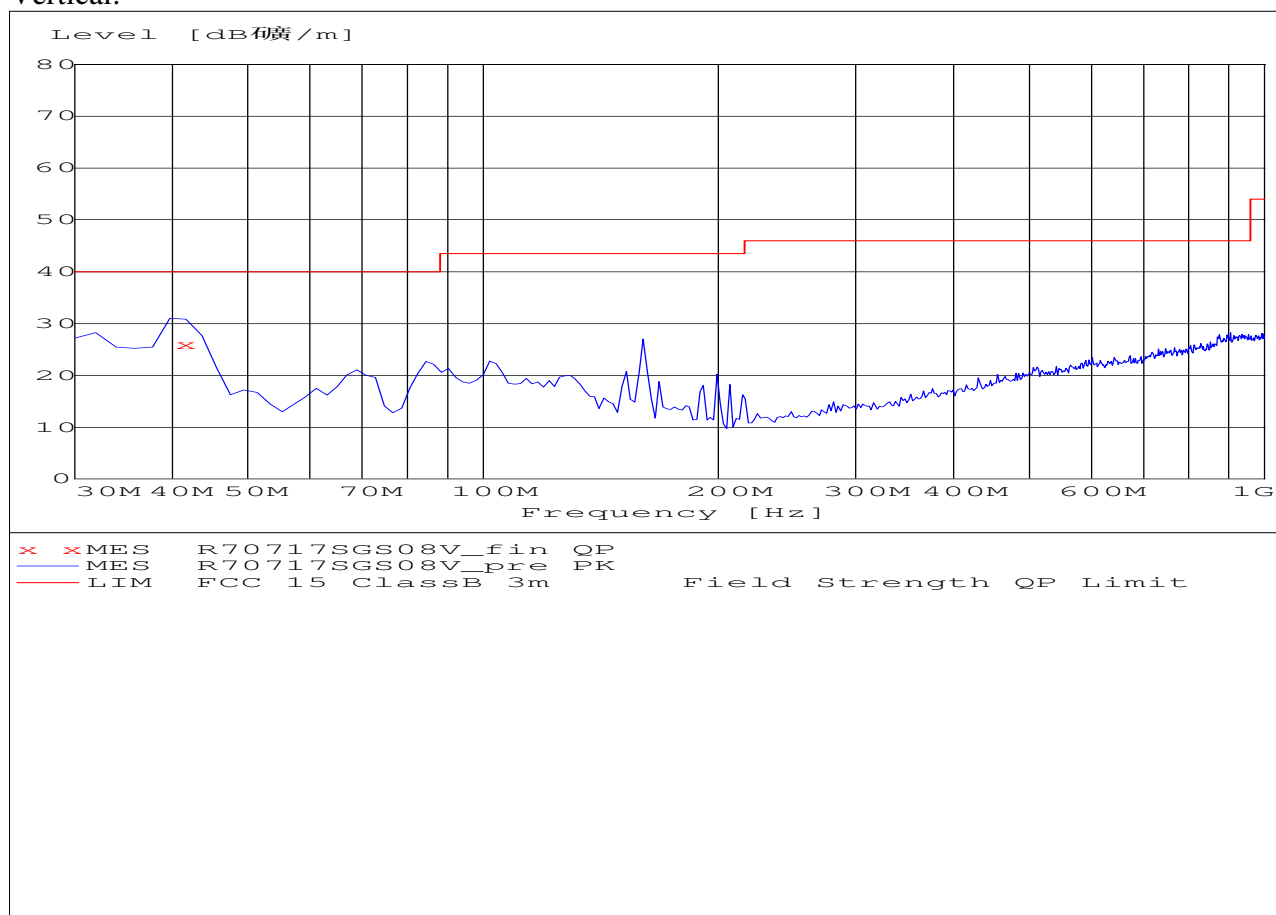
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
41.292590	25.87	100.0	300.00	VERTICAL	40.00	14.13

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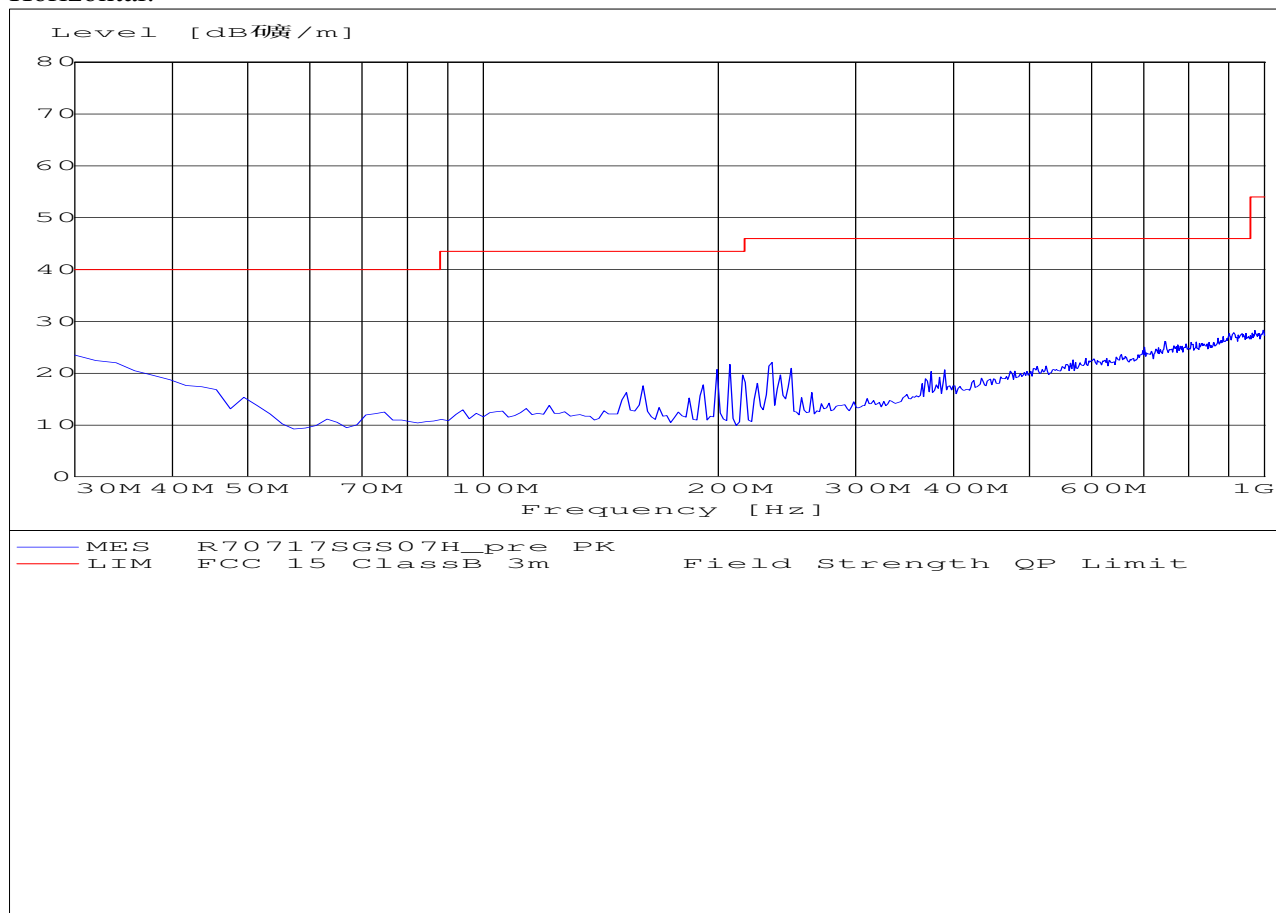
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PCS 1900 connected: (test Mobile with T5001448AGAA of Tenpao power adaptor and headset.)

Horizontal:



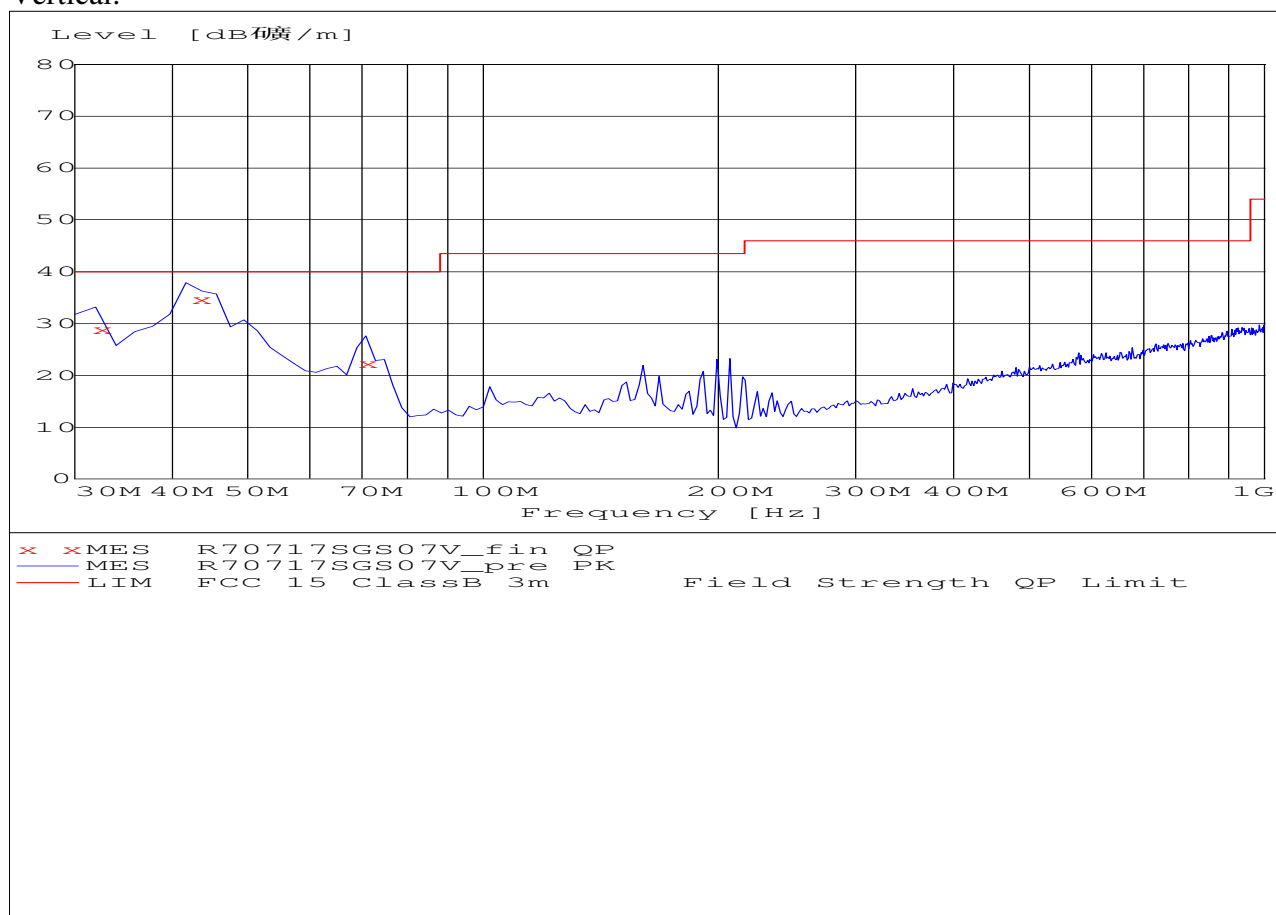
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## Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
32.344690	28.78	100.0	265.00	VERTICAL	40.00	11.22
43.266530	34.59	100.0	230.00	VERTICAL	40.00	5.41
70.751500	22.31	100.0	180.00	VERTICAL	40.00	17.69



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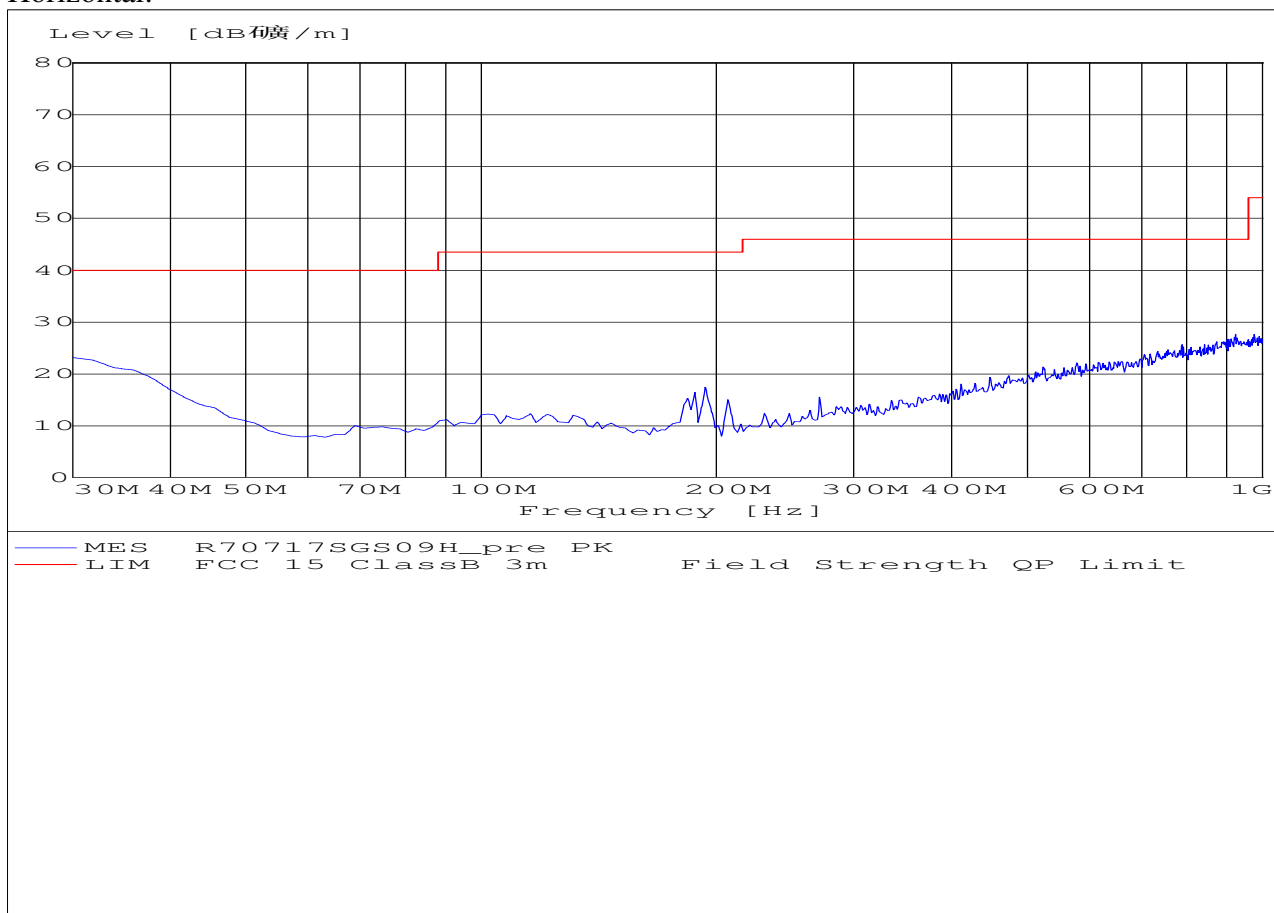
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PCS 1900 connected: (test Mobile with earphone.)

Horizontal:



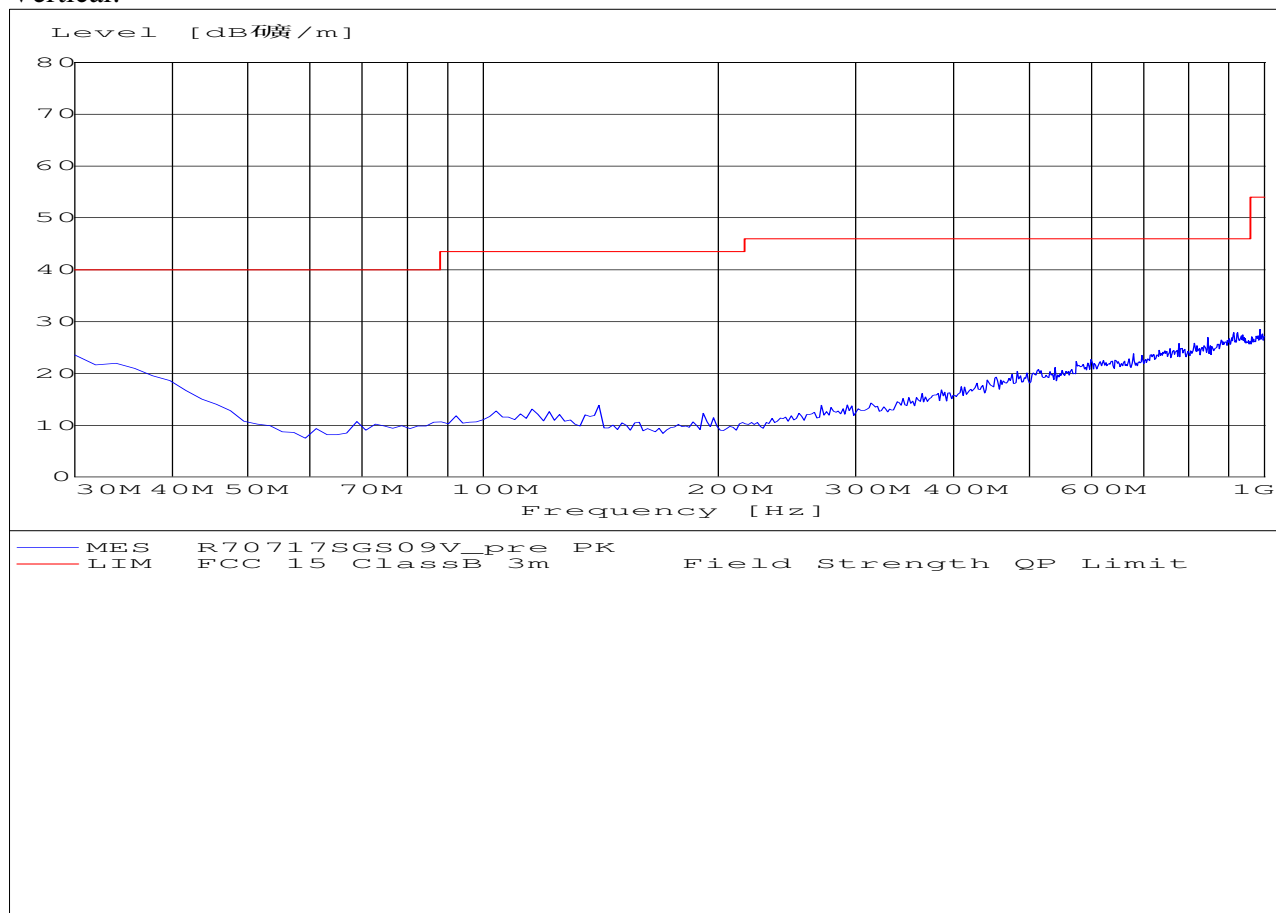
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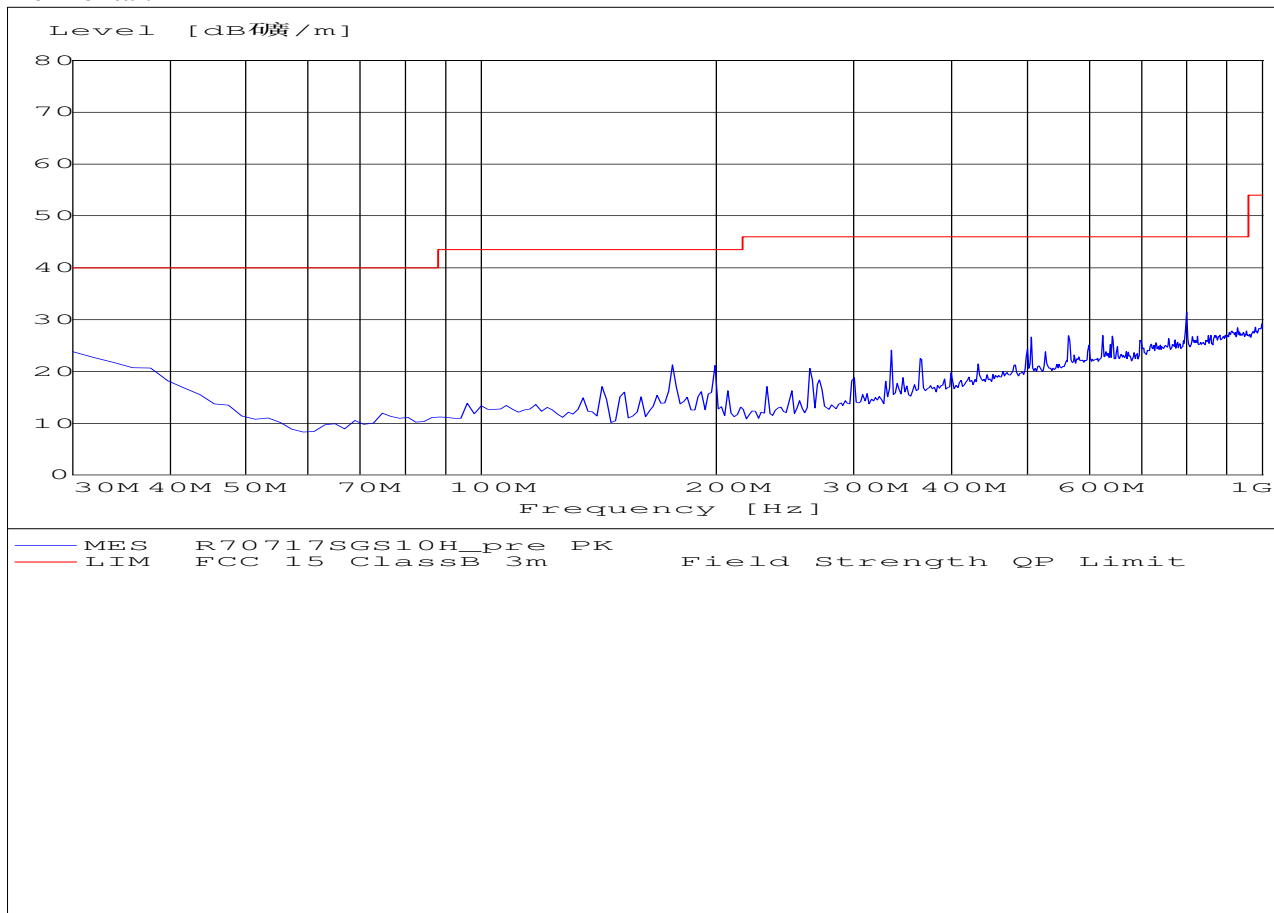
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PCS 1900 connected: (test Mobile with USB Port with PC.)

Horizontal:



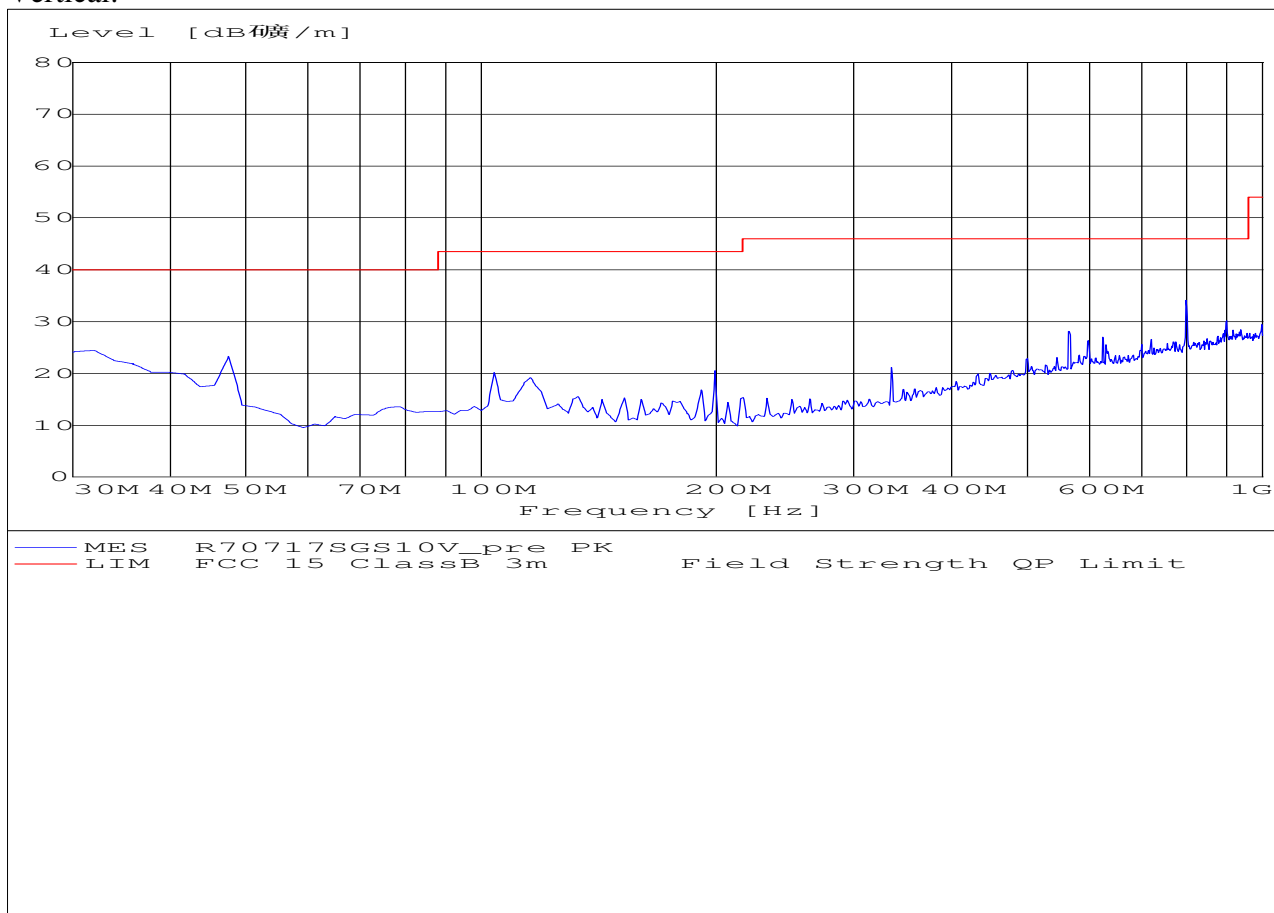
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## 6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	July 9, 2007 to July 16, 2007
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dB $\mu$ V - 56 dB $\mu$ V between 150kHz & 500kHz Quasi-peak 56 dB $\mu$ V between 0.5MHz & 5MHz Quasi-peak 60 dB $\mu$ V between 5MHz & 30MHz Quasi-peak

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0°C Humidity: 58% RH Atmospheric Pressure: 1012 mbar  
EUT Operation: Test EUT is the in the allocated channel mode Charging, GSM850, PCS  
1900 with headset.

### 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.

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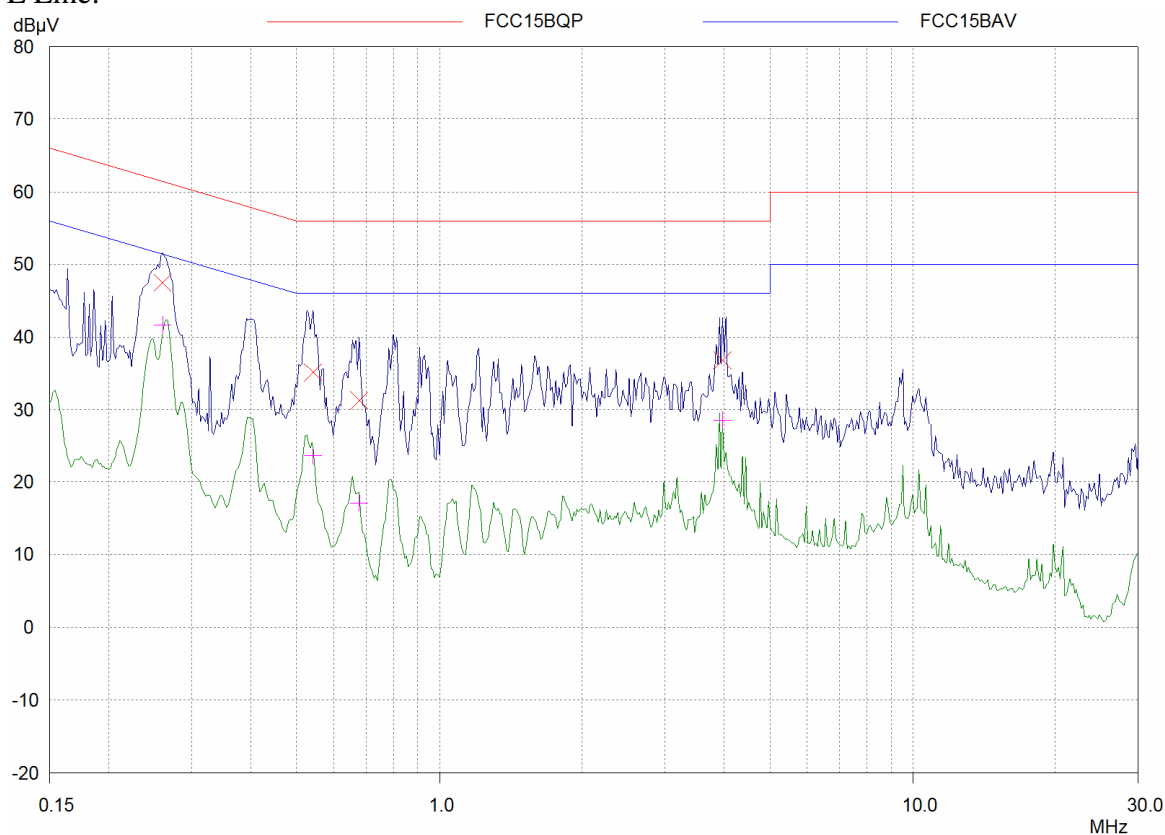
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**Power Supply01:** AC to DC charger (Model NO: T5000436AGAA Input: AC 100V-240V~, 50/60Hz 0.15A Output:DC 5.0V, 0.4A)  
Manufactures: TenPao

GSM 850 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25993	47.46	61.43	13.97
0.54104	35.17	56.00	20.83
0.67628	31.26	56.00	24.74
3.96615	36.79	56.00	19.21

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25993	41.61	51.43	9.82
0.54104	23.54	46.00	22.46
0.67628	16.99	46.00	29.01
3.96615	28.52	46.00	17.48

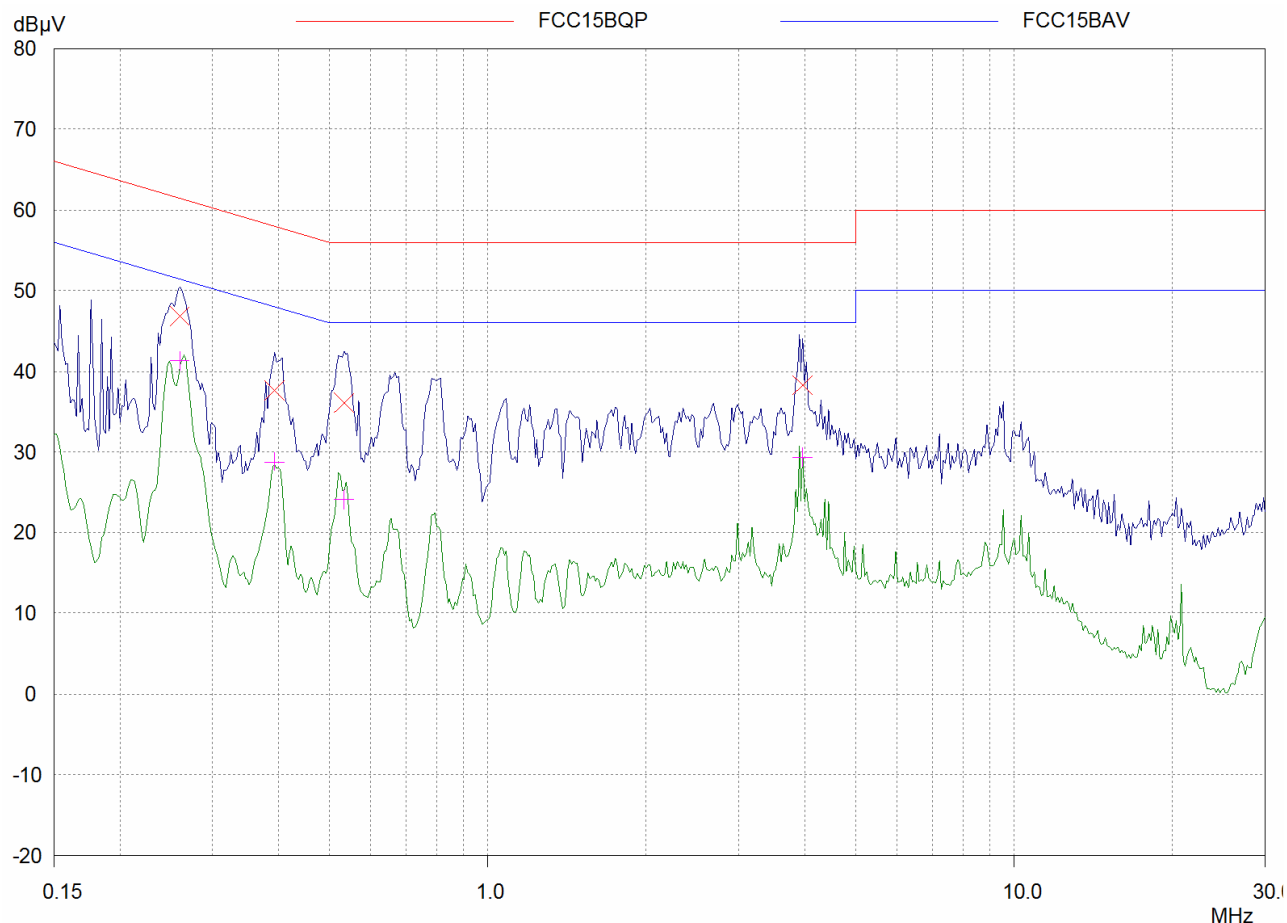
# SGS-CSTC Standards Technical Services Co., Ltd.

1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889,  
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Tino\_Pan@sgs.com

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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25993	46.84	61.43	14.59
0.39338	37.61	57.99	20.38
0.53249	36.07	56.00	19.93
3.96615	38.27	56.00	17.73

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25993	41.27	51.43	10.16
0.39338	28.73	47.99	19.26
0.53249	24.03	46.00	21.97
3.96615	29.32	46.00	16.68

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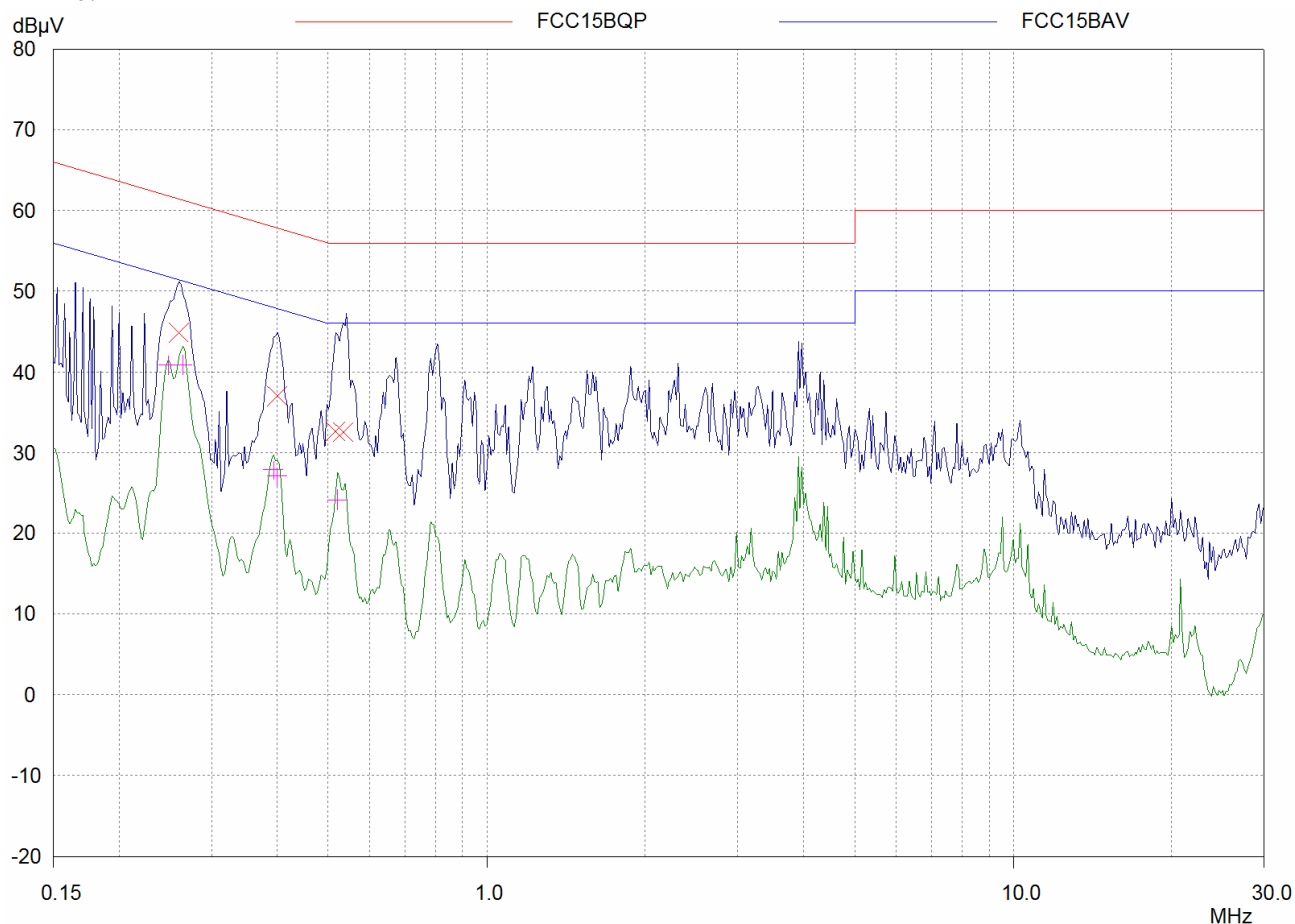
1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889,  
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PCS 1900 connected:

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.25993	44.83	61.43	16.60
0.3997	37.00	57.86	20.86
0.51578	32.65	56.00	23.35
0.53249	32.55	56.00	23.45

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.2478	40.80	51.83	11.03
0.26411	40.84	51.30	10.46
0.39338	27.80	47.99	20.19
0.3997	26.99	47.86	20.87
0.51991	24.03	46.00	21.97



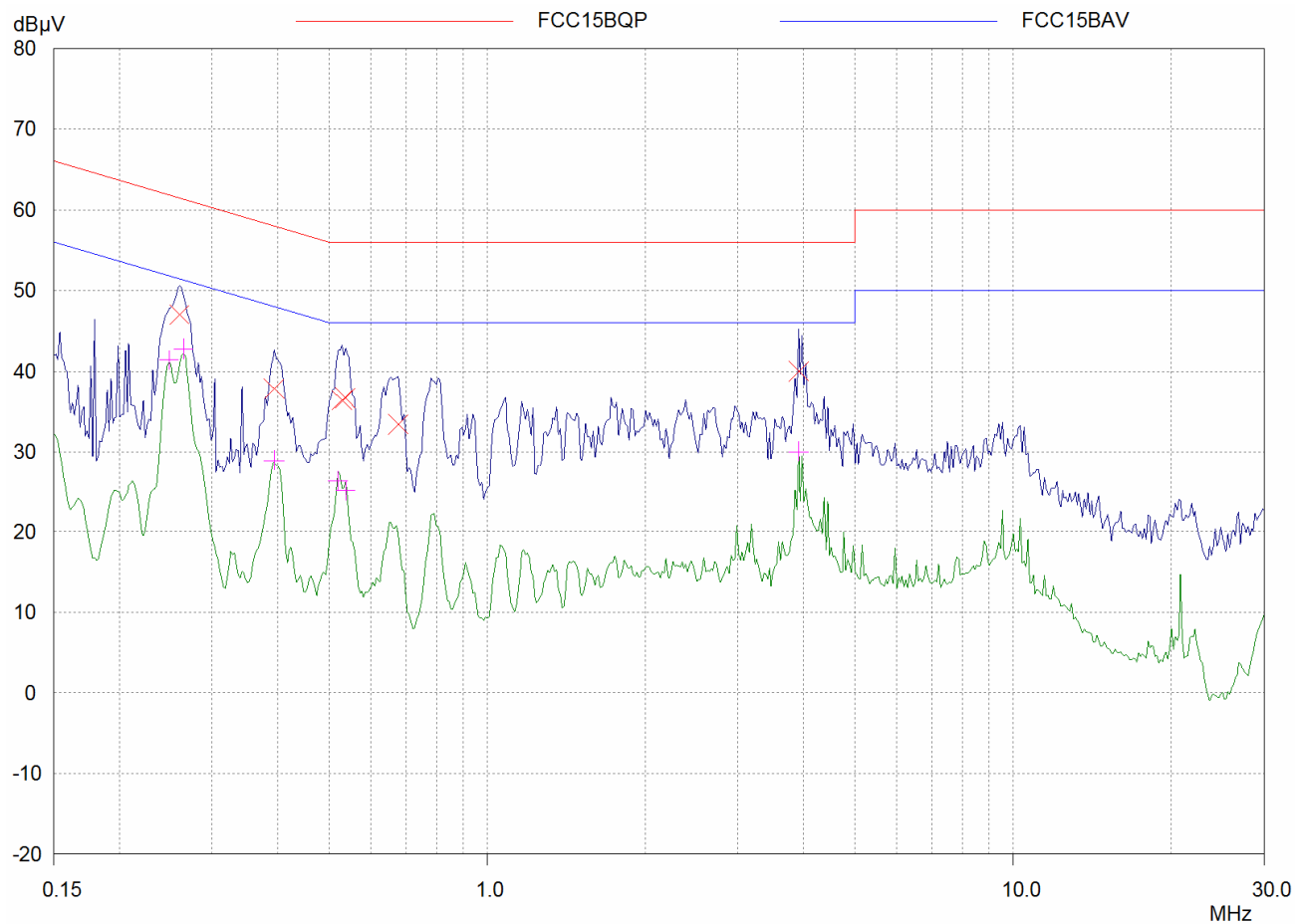
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N Line:



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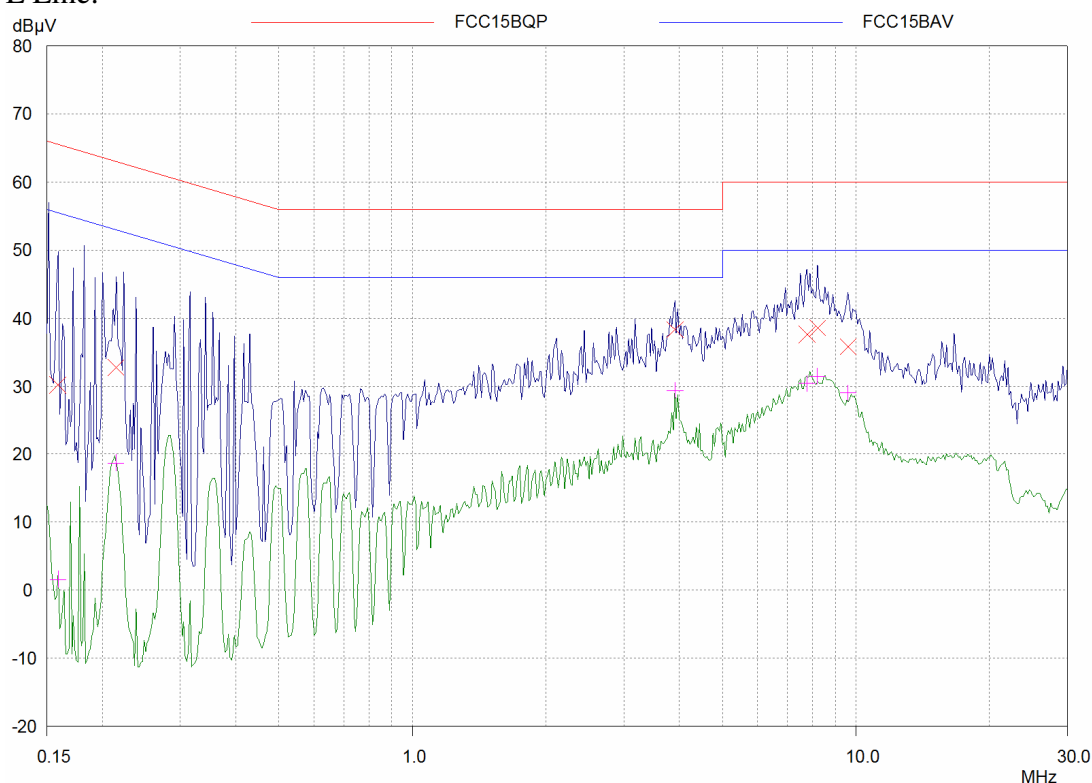
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**Power Supply02:** AC to DC charger (Model NO: T5001448AGAA Input: AC 100V-240V~, 50/60Hz 0.1A Output:DC 4.5V, 0.3A)  
Manufactures: TenPao

GSM 850 connected:

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.1586	30.23	65.54	35.31
0.21469	32.79	63.02	30.23
3.90345	38.37	56.00	17.63
7.74559	37.67	60.00	22.33
8.18989	38.57	60.00	21.43
9.60481	35.85	60.00	24.15

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.1586	1.55	55.54	53.99
0.21469	18.64	53.02	34.38
3.90345	29.39	46.00	16.61
7.74559	30.45	50.00	19.55
8.18989	31.52	50.00	18.48
9.60481	29.04	50.00	20.96

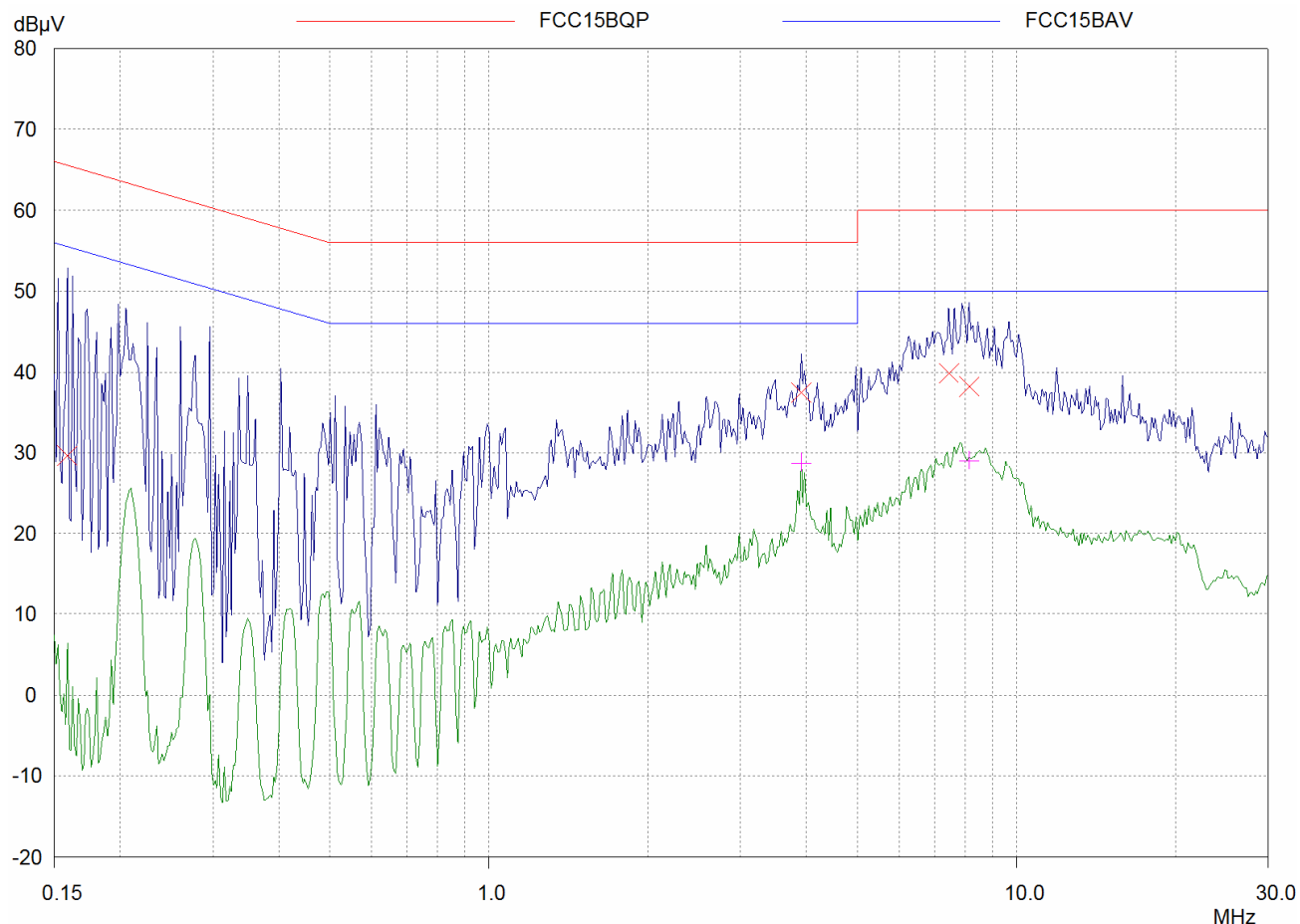
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.1586	29.65	65.54	35.89
3.90345	37.45	56.00	18.55
7.44306	39.87	60.00	20.13
8.12489	38.19	60.00	21.81

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
3.90345	28.78	46.00	17.22
8.12489	29.02	50.00	20.98

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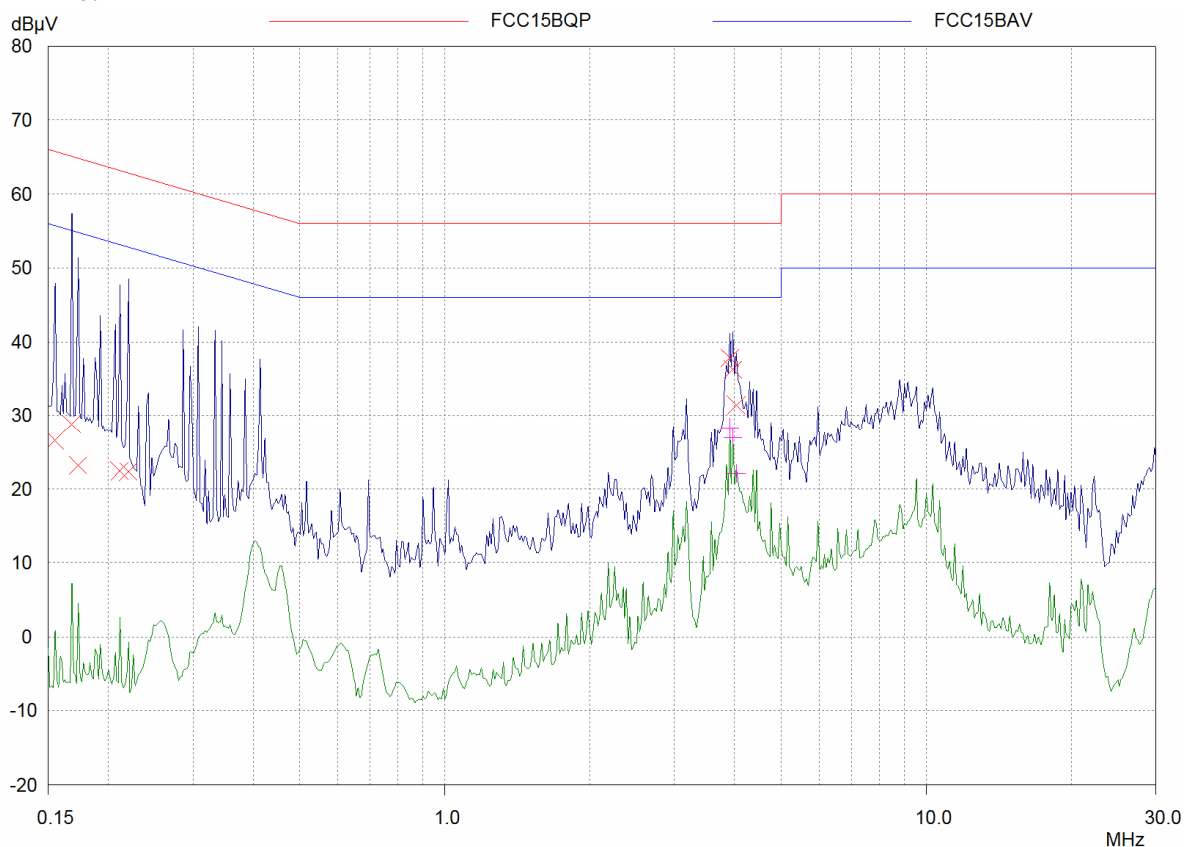
1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889,  
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PCS 1900 connected:

L Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15485	26.55	65.74	39.19
0.1677	28.77	65.07	36.30
0.17313	23.14	64.81	41.67
0.21129	22.38	63.15	40.77
0.21988	22.29	62.82	40.53
3.90345	37.77	56.00	18.23
3.96615	36.23	56.00	19.77
4.02986	31.41	56.00	24.59

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
3.90345	28.36	46.00	17.64
3.96615	26.98	46.00	19.02
4.02986	22.05	46.00	23.95

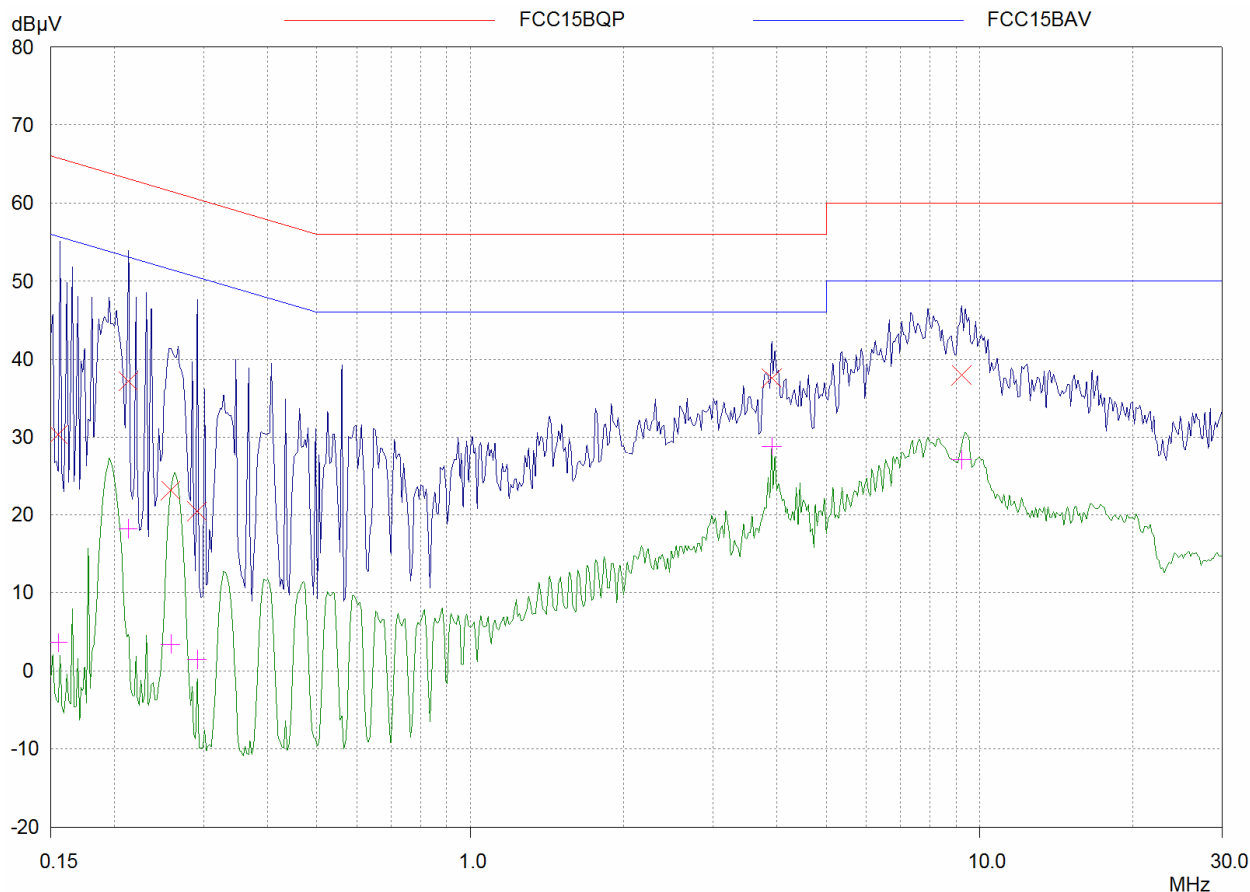
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## N Line:



### Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15485	30.33	65.74	35.41
0.21298	37.19	63.09	25.90
0.25787	23.08	61.50	38.42
0.29061	20.41	60.51	40.10
3.90345	37.55	56.00	18.45
9.22967	37.92	60.00	22.08

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15485	3.54	55.74	52.20
0.21298	18.12	53.09	34.97
0.25787	3.36	51.50	48.14
0.29061	1.42	50.51	49.09
3.90345	28.78	46.00	17.22
9.22967	27.03	50.00	22.97

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

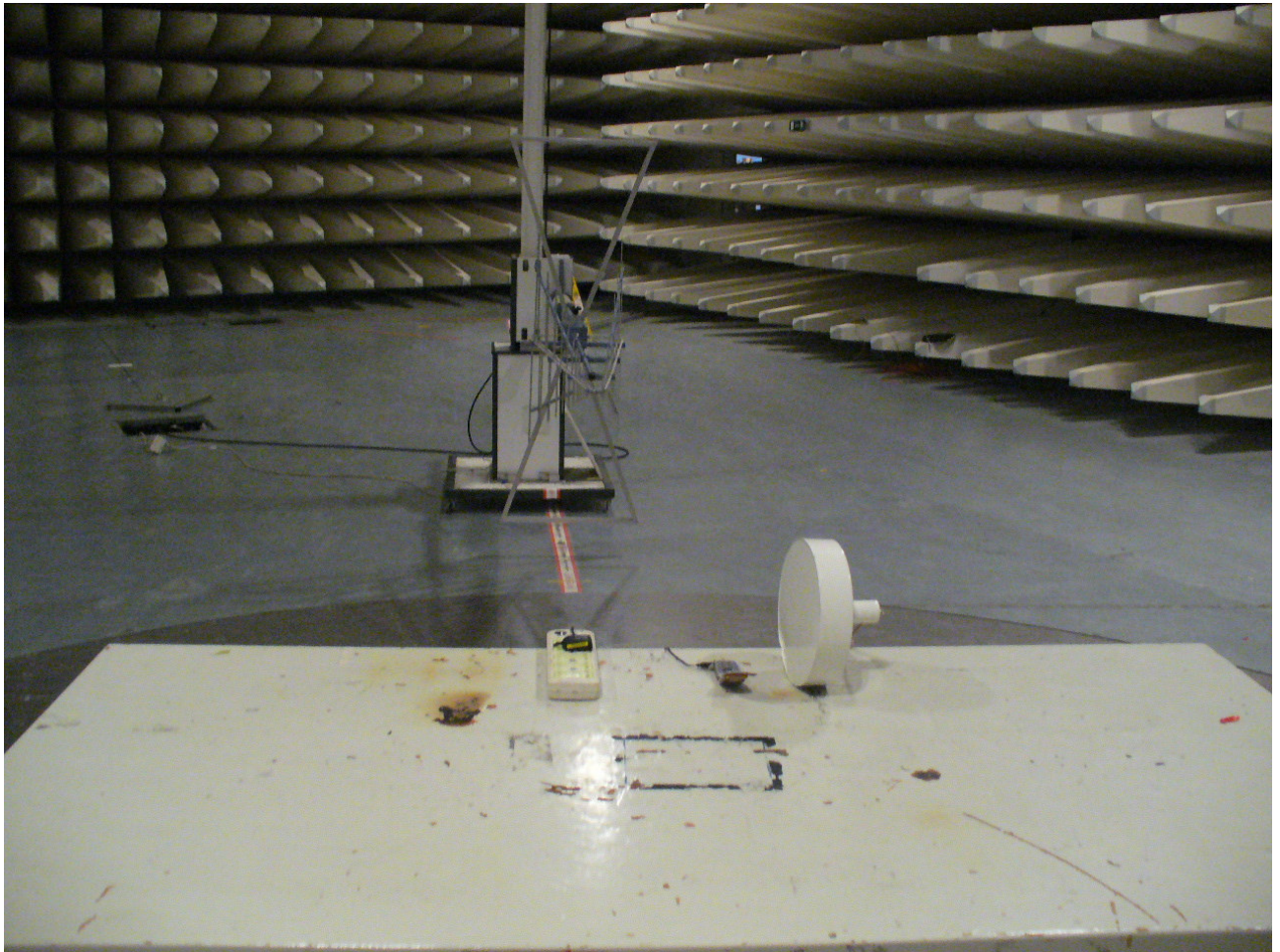
1/F, 4/F, 5/F, 6/F, 7/F, 8/F, 9/F, 10/F, the 3rd Building No. 889,  
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## 7 Photographs

### 7.1 Radiated Emission Test Setup

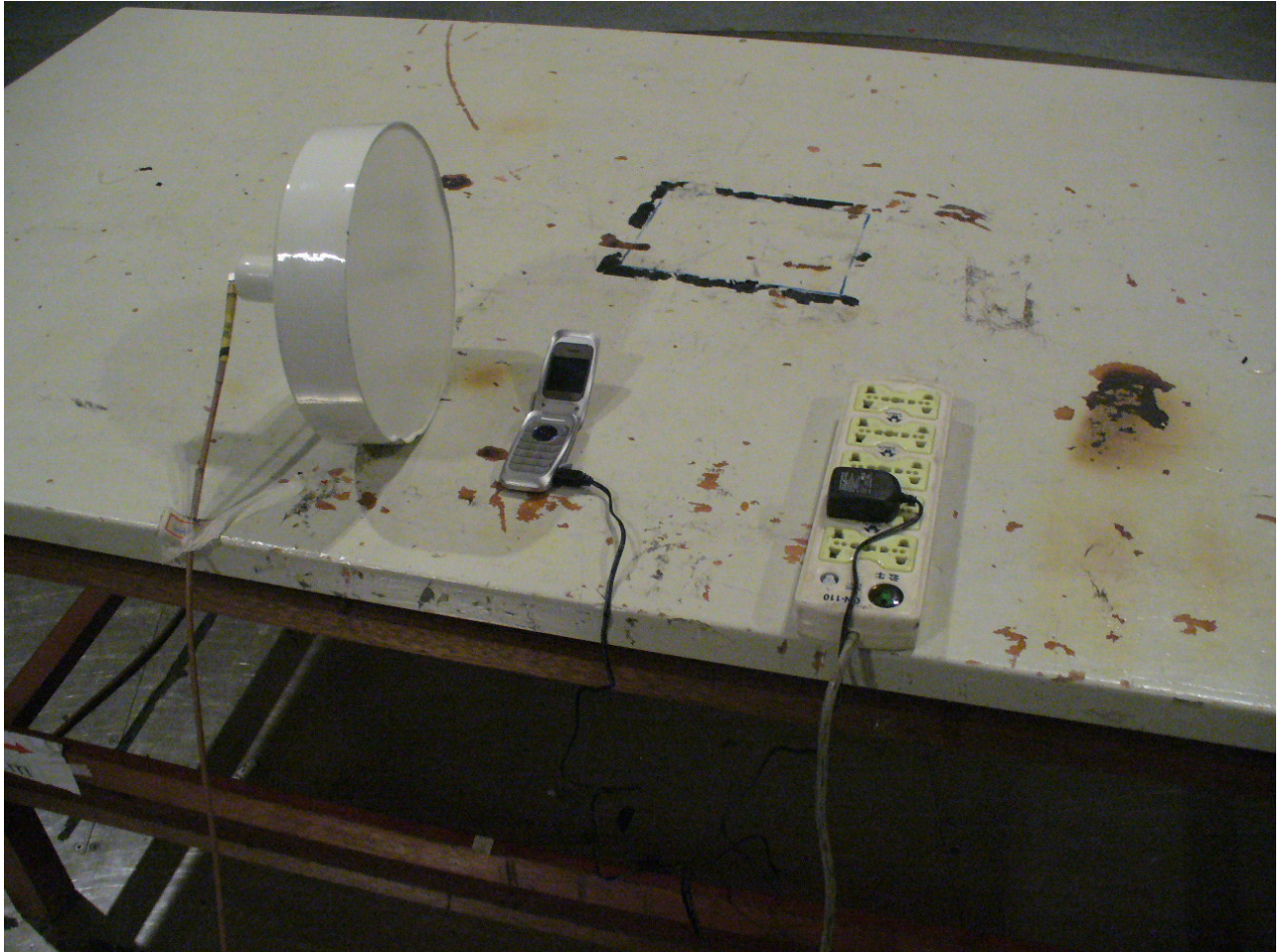


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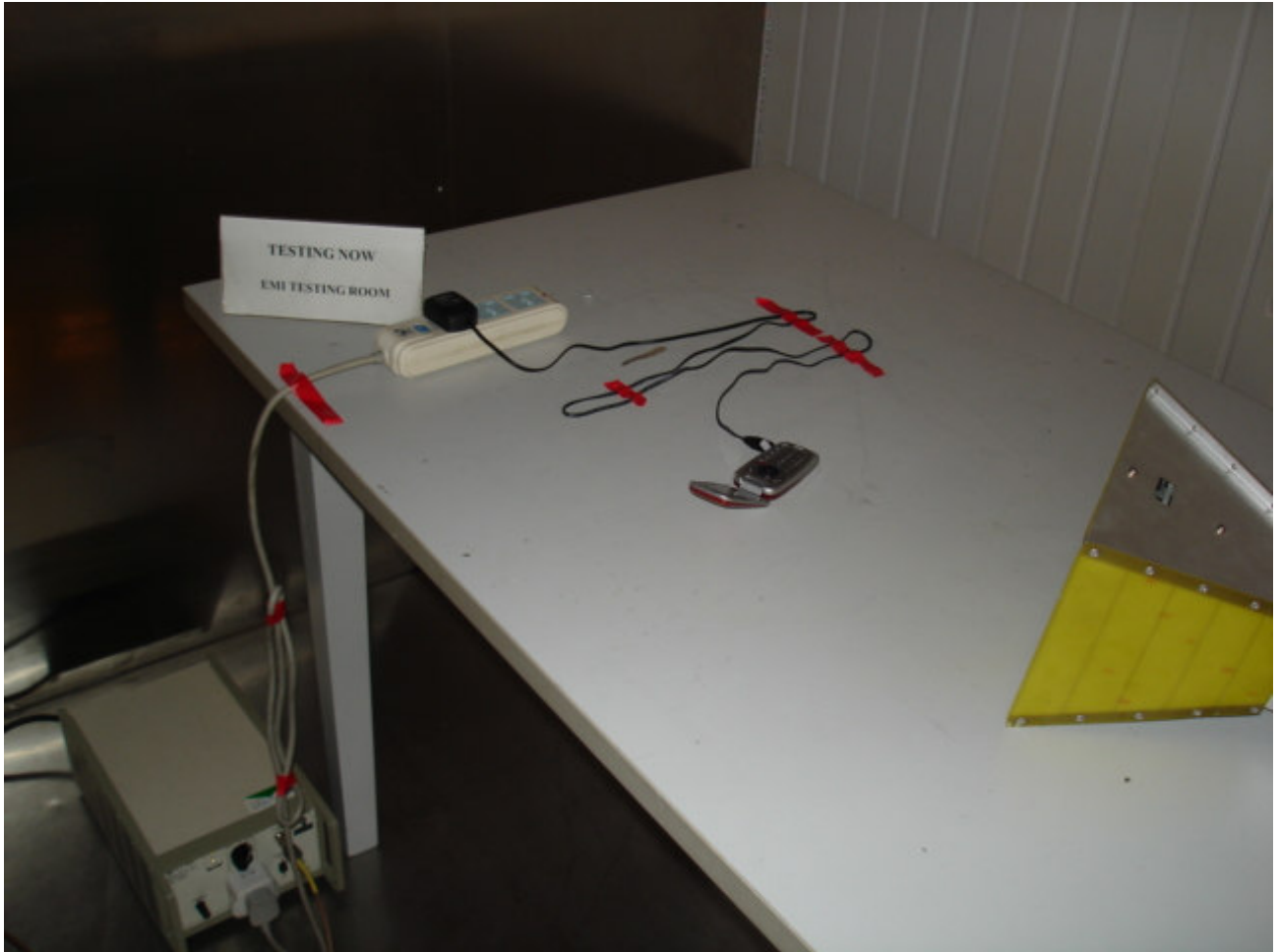
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## 7.2 Conducted Emission Test Setup





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**7.3 EUT Constructional Details**



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