

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

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Report No.: SHEMO07120007IT
Page 1 of 30

FCC TEST REPORT

Application No.: SHEMO07120007IT

Applicant: EMPORIA TELECOM Prod.- u. VertriebsgmbH & Co.KG

Equipment Under Test (EUT):

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

EUT Name: GSM 850/PCS 1900 Dual-band mobile phone

Model No.: V100

Marketing Name: V100

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: December 5, 2007

Date of Test: December 10, 2007

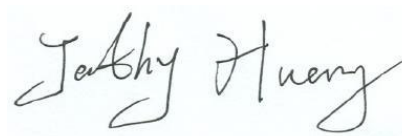
Date of Issue: December 12, 2007

Test Result :	PASS
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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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Report No.: SHEMO07120007IT
Page 2 of 30

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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Report No.: SHEMO07120007IT
Page 3 of 30

3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY.....	2
3 CONTENTS	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF E.U.T.	4
4.3 DETAILS OF E.U.T.	4
4.4 DESCRIPTION OF SUPPORT UNITS.....	4
4.5 STANDARDS APPLICABLE FOR TESTING	4
4.6 TEST LOCATION.....	5
4.6 DEVIATION FROM STANDARDS.....	6
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	6
4.8 MONITORING OF EUT FOR ALL IMMUNITY TEST	6
4.9 TEST CONFIDENT LEVEL	6
5 EQUIPMENTS USED DURING TEST.....	7
6 EMISSION TEST RESULTS.....	8
6.1 RADIATED EMISSIONS, 30MHZ TO 1GHZ	8
6.1.1 E.U.T. Operation.....	8
6.1.2 Test setup:	8
6.1.3 Test Result:.....	9
6.2 CONDUCTED EMISSIONS, 150KHZ TO 30MHZ	15
6.2.1 E.U.T. Operation.....	15
6.2.2 Test Result and Partial Measurement Data	15
7 PHOTOGRAPHS.....	20
7.1 RADIATED EMISSION TEST SETUP.....	20
7.2 CONDUCTED EMISSION TEST SETUP	22
7.3 EUT CONSTRUCTIONAL DETAILS	23

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Report No.: SHEMO07120007IT
Page 4 of 30

4 General Information

4.1 Client Information

Applicant: EMPORIA TELECOM Prod.- u. VertriebsgmbH & Co.KG
Address of Applicant: Industriezeile 36 - 4020 Linz - Austria

4.2 General Description of E.U.T.

EUT Name: GSM 850/PCS 1900 Dual-band mobile phone
Model No.: V100
Marketing Name: V100
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: GPC-ACW004B-06U
Input: AC 100V-240V~, 50-60Hz 0.2A Output:DC 6V, 0.67A)
Power Cord01: 1.5m
Earphone: Model NO.: PF SPO-V100
Battery: DC 3.7V / 1050mAh
Model NO.:AK-V100

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 850/PCS 1900 Dual-band mobile phone.
The standards used was CFR 47 part 2: 2004 and CFR 47 part 15: 2005:

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Report No.: SHEMO07120007IT
Page 5 of 30

Table 1 : 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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Report No.: SHEMO07120007IT
Page 6 of 30

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, December 9, 2002.

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

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Report No.: SHEMO07120007IT
Page 7 of 30

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	2007.07.24	2008.07.23
2	BROADBAND ANTENNA	R&S	HL 562	100019	2007.10.10	2008.10.09
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2007.08.13	2008.08.13
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2007.09.01	2008.08.31

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	2007.08.28	2008.08.27
2	ARTIFICIAL MAINS NETWORK	R&S	ESH2-Z5	100030	2007.09.19	2008.09.18
3	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	SHEM04-1	2007.09.01	2008.08.31

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	2007.07.25	2008.07.24
2	DMM	Fluke	73	70681569 or 70671122	2007.07.23	2008.07.22

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Report No.: SHEMO07120007IT
Page 8 of 30

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:	December 10, 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

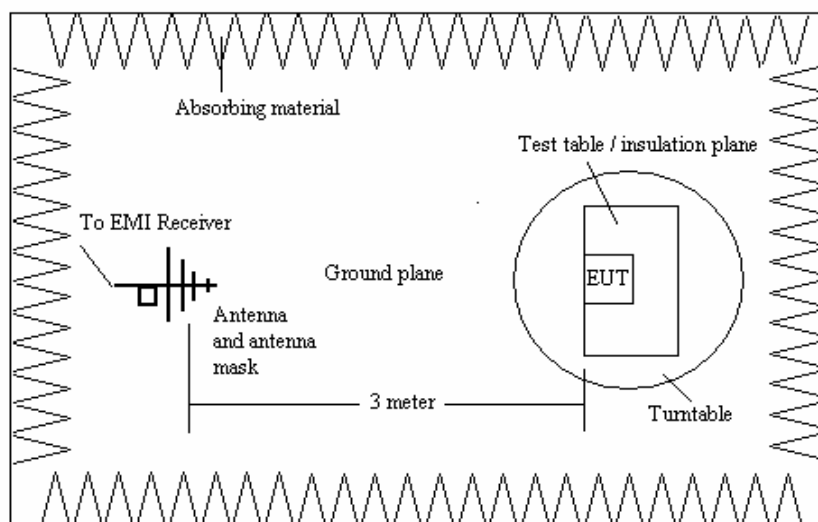
Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: EUT allocated GSM850, PCS 1900, connected to phone with charger.

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

6.1.2 Test setup:



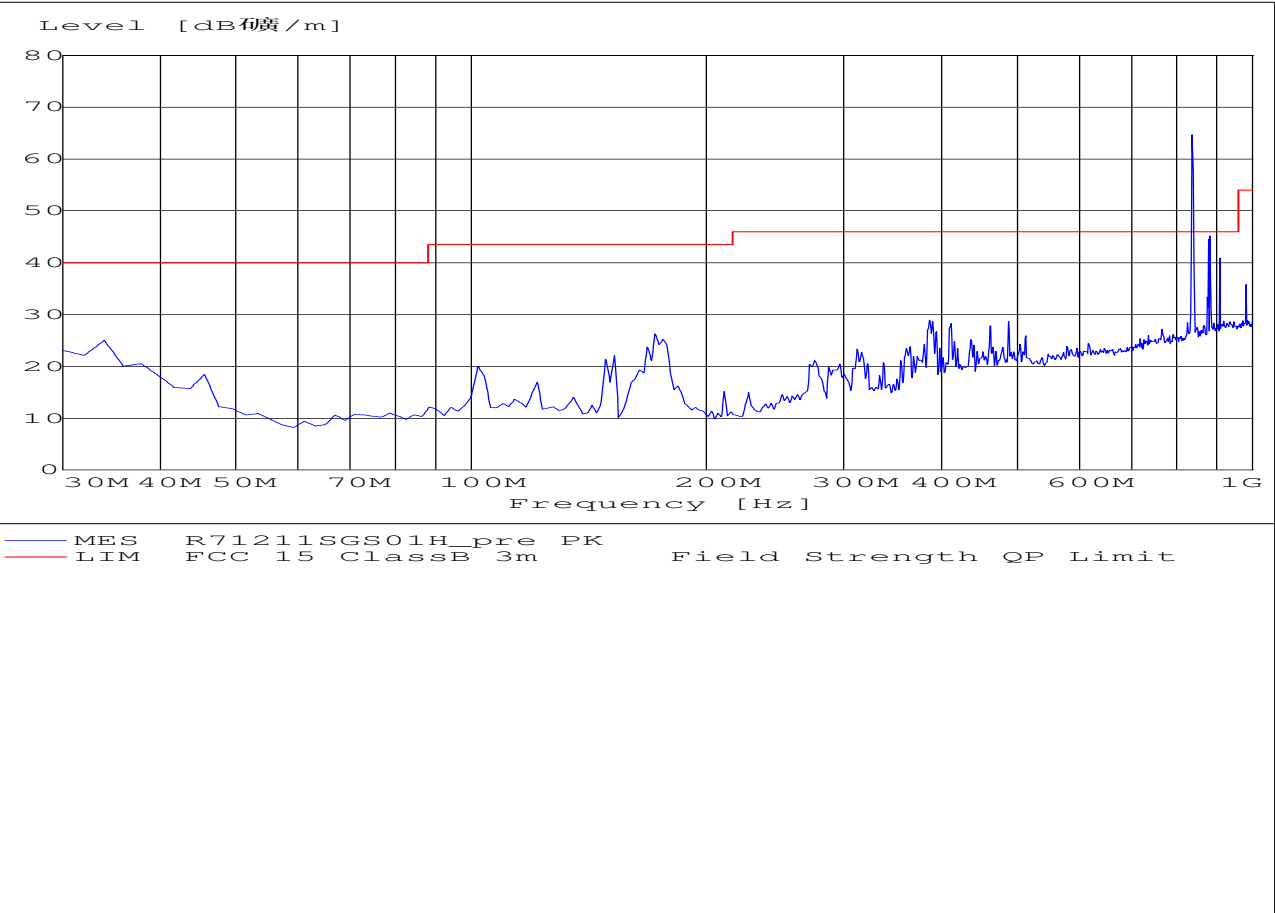
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Report No.: SHEMO07120007IT
Page 9 of 30

6.1.3 Test Result:
GSM 850 connected:
Horizontal:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV)	Emission Level (dBuV/m)	Limit dBuV/m	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	*	30	*	-	-
45	Horizontal	*	*	30	*	-	-
191	Horizontal	*	*	30	*	-	-
245	Horizontal	*	*	37	*	-	-
500	Horizontal	*	*	37	*	-	-
700	Horizontal	*	*	37	*	-	-
1000	Horizontal	*	*	37	*	-	-

- 1. All readings are Quasi-Peak values.
- 2. “*” means the emission level is 6 dB below the relevant limit.

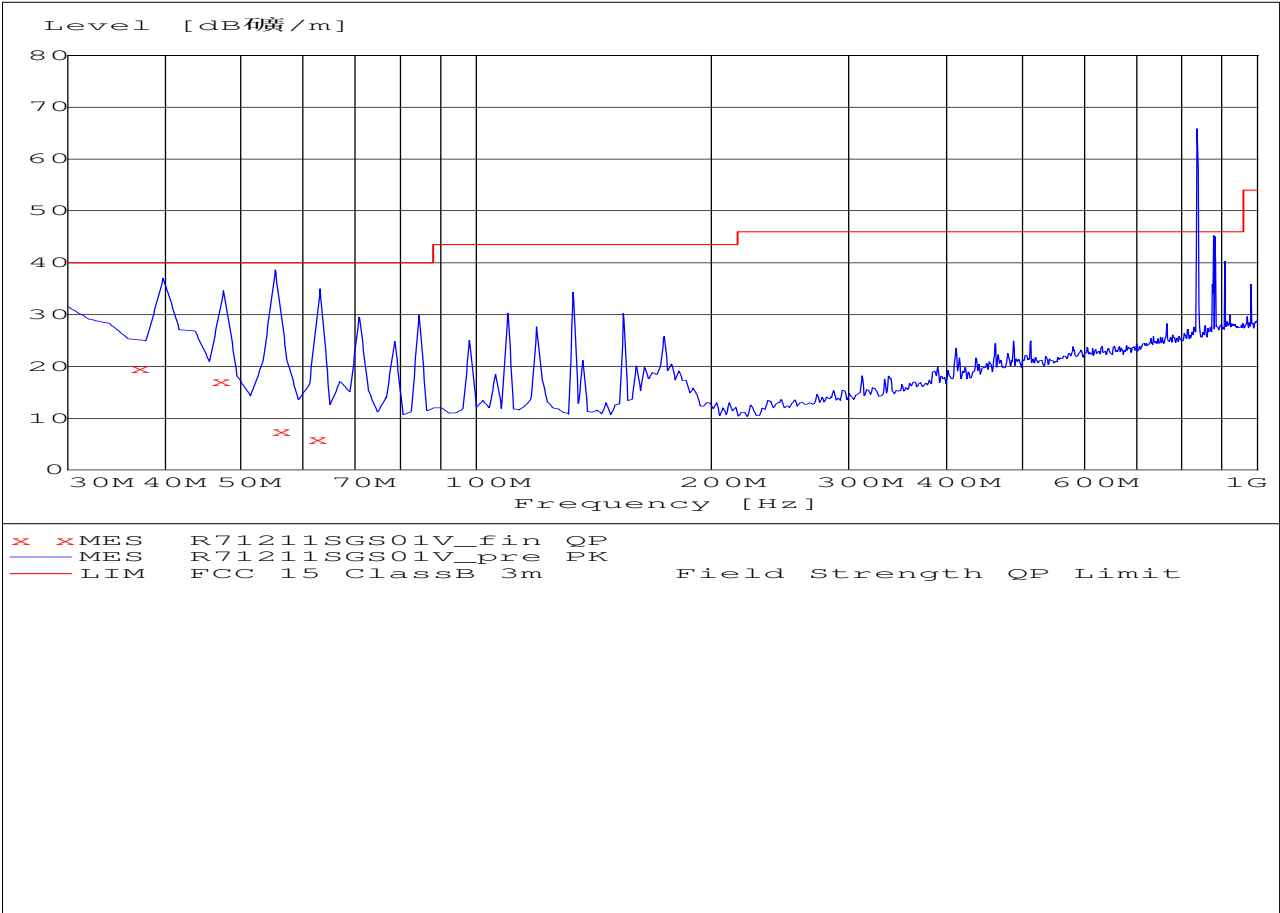
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Report No.: SHEMO07120007IT
Page 10 of 30

Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBµV/m	cm	deg		dBµV/m	dB
36.883768	19.61	200.0	0.00	VERTICAL	40.00	20.39
46.883768	16.97	200.0	0.00	VERTICAL	40.00	23.03
55.891784	7.35	200.0	0.00	VERTICAL	40.00	32.65
62.294589	5.91	200.0	0.00	VERTICAL	40.00	34.09

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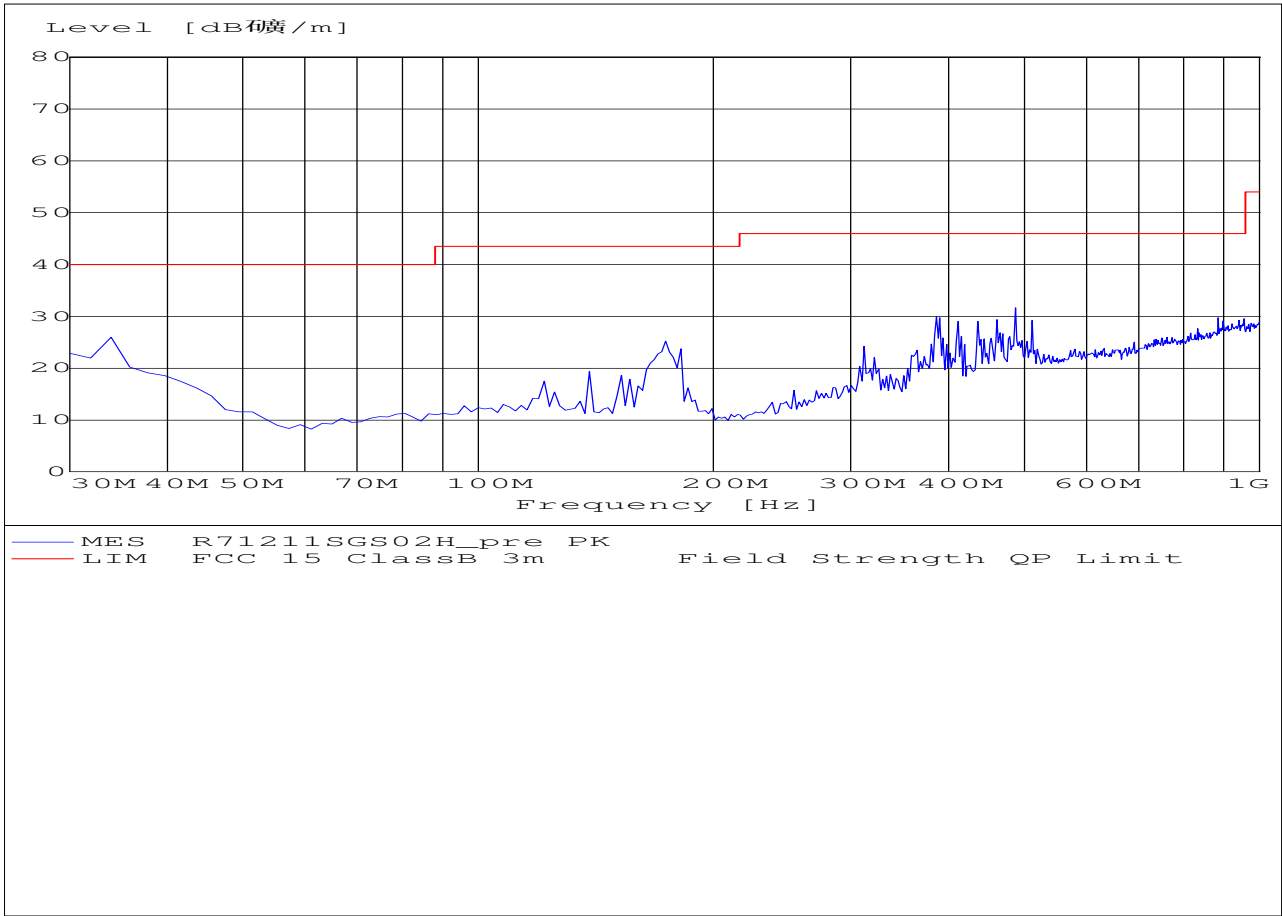
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Report No.: SHEMO07120007IT
Page 11 of 30

PCS 1900 connected:

Horizontal:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV)	Emission Level (dBuV/m)	Limit dBuV/m	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Horizontal	*	*	30	*	-	-
45	Horizontal	*	*	30	*	-	-
191	Horizontal	*	*	30	*	-	-
245	Horizontal	*	*	37	*	-	-
500	Horizontal	*	*	37	*	-	-
700	Horizontal	*	*	37	*	-	-
1000	Horizontal	*	*	37	*	-	-

1. All readings are Quasi-Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

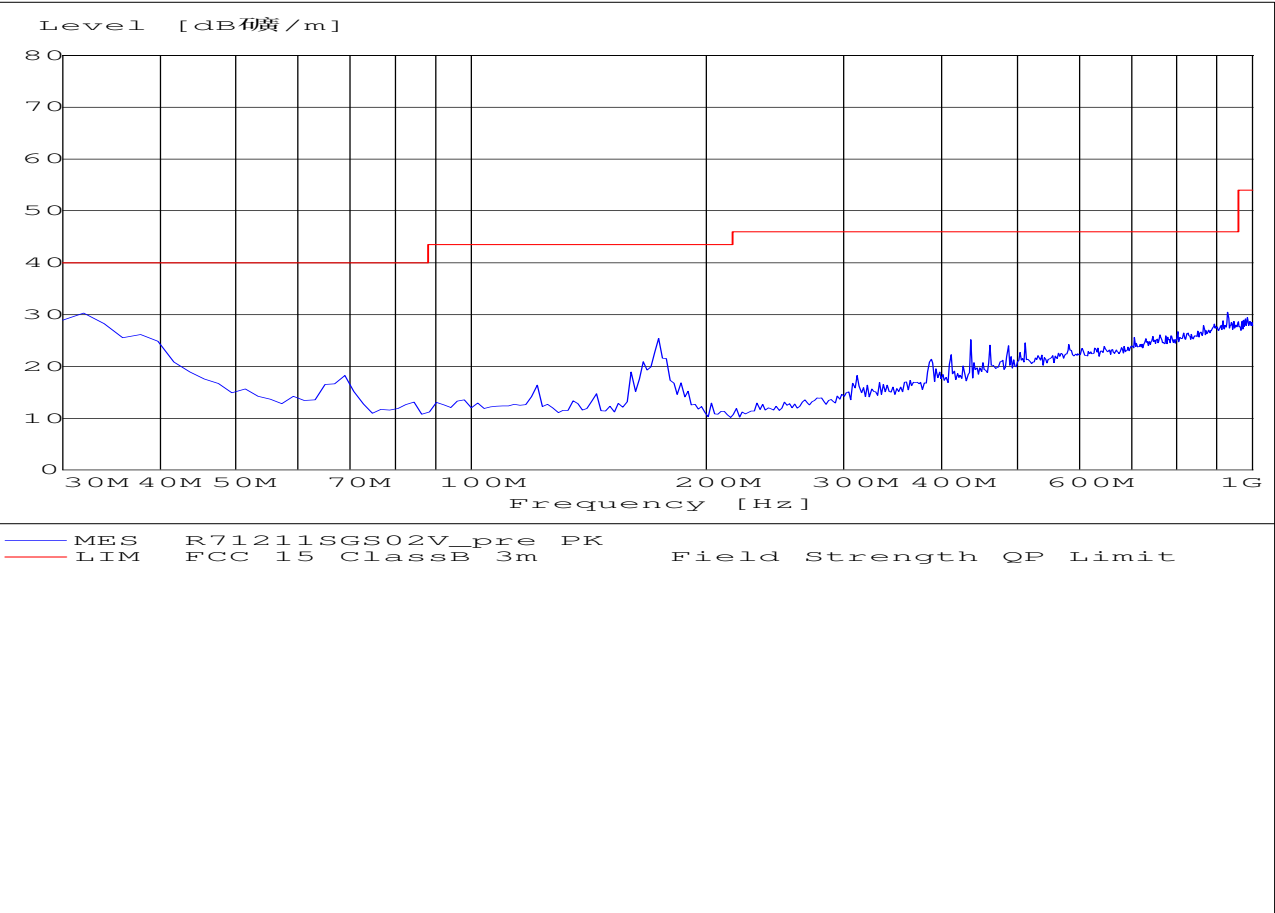
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Report No.: SHEMO07120007IT
Page 12 of 30

Vertical:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV)	Emission Level (dBuV/m)	Limit dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	*	30	*	-	-
45	Vertical	*	*	30	*	-	-
191	Vertical	*	*	30	*	-	-
245	Vertical	*	*	37	*	-	-
500	Vertical	*	*	37	*	-	-
700	Vertical	*	*	37	*	-	-
1000	Vertical	*	*	37	*	-	-

1. All readings are Quasi-Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

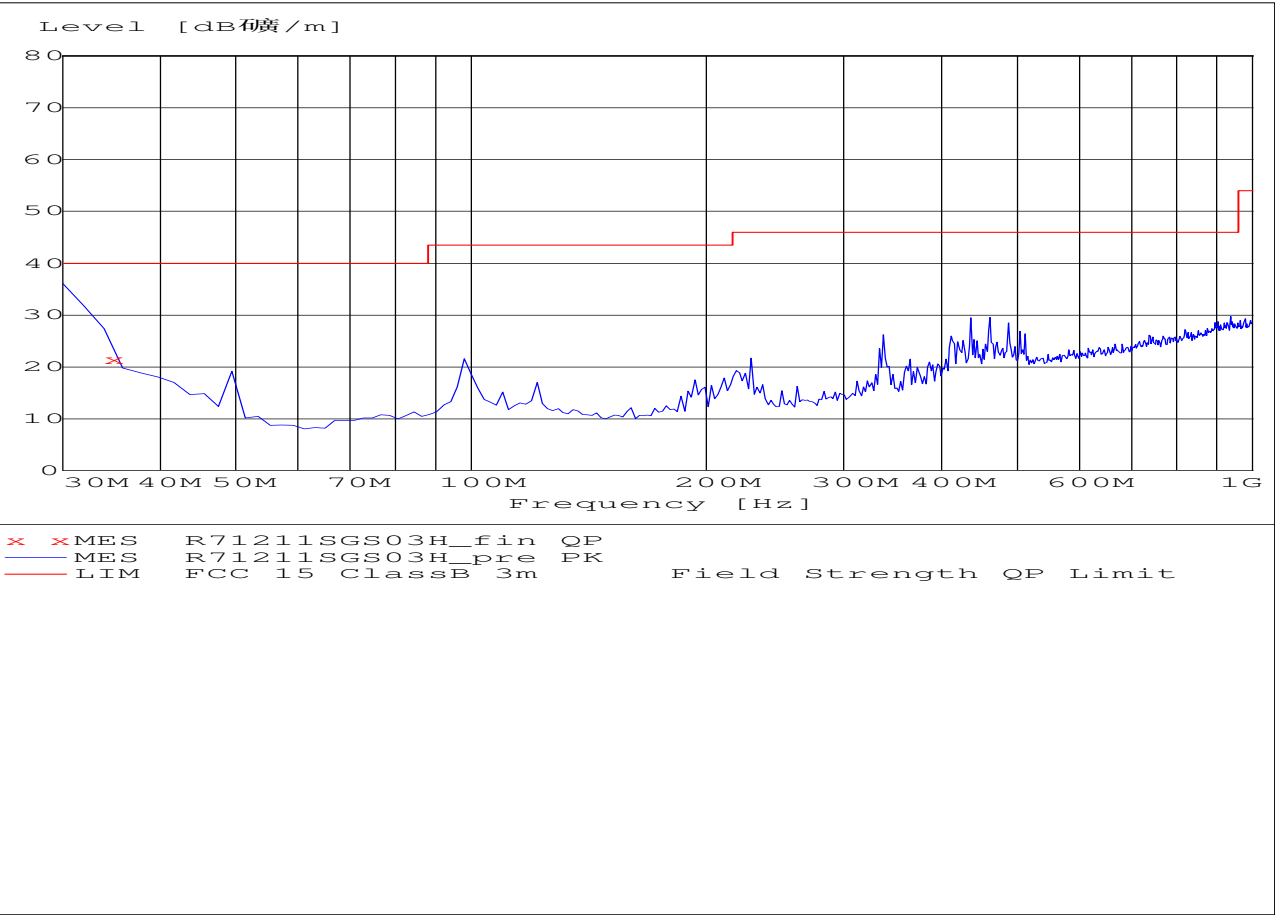
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Report No.: SHEMO07120007IT
Page 13 of 30

PCS 1900 connected with earphone:
Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg		dBμV/m	dB
34.699399	21.49	200.0	90.00	HORIZONTAL	40.00	18.51

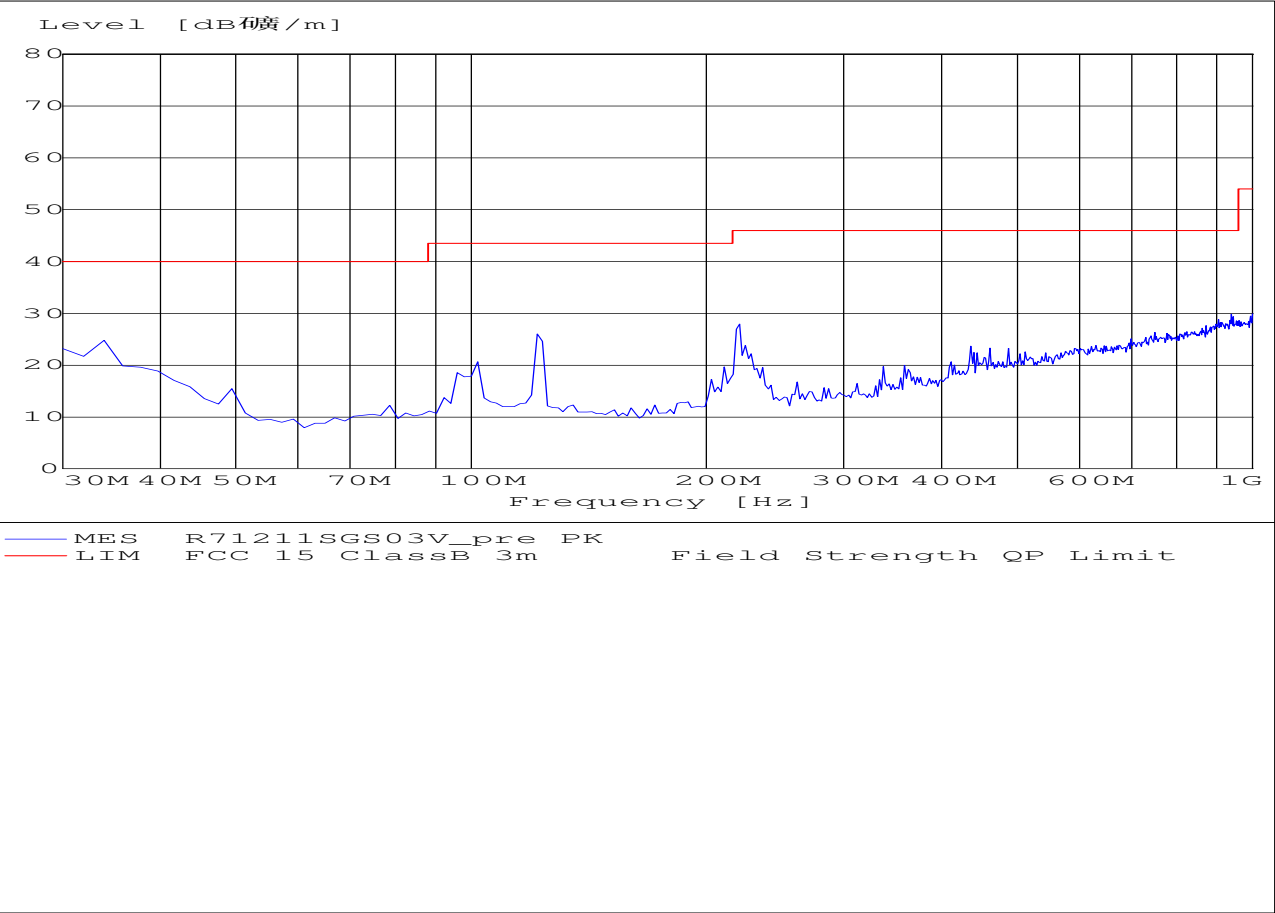
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Report No.: SHEMO07120007IT
Page 14 of 30

Vertical:



Frequency (MHz)	Antenna Polarization	Receiver QP Reading (dBuV)	Emission Level (dBuV/m)	Limit dBuV/m)	Margin (dB)	Antenna Height (cm)	Turntable Angle (°)
30	Vertical	*	*	30	*	-	-
45	Vertical	*	*	30	*	-	-
191	Vertical	*	*	30	*	-	-
245	Vertical	*	*	37	*	-	-
500	Vertical	*	*	37	*	-	-
700	Vertical	*	*	37	*	-	-
1000	Vertical	*	*	37	*	-	-

1. All readings are Quasi-Peak values.
2. “*” means the emission level is 6 dB below the relevant limit.

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Report No.: SHEMA007120007IT
Page 15 of 30

6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	December 10, 2007
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dB μ V - 56 dB μ V between 150kHz & 500kHz Quasi-peak 56 dB μ V between 0.5MHz & 5MHz Quasi-peak 60 dB μ 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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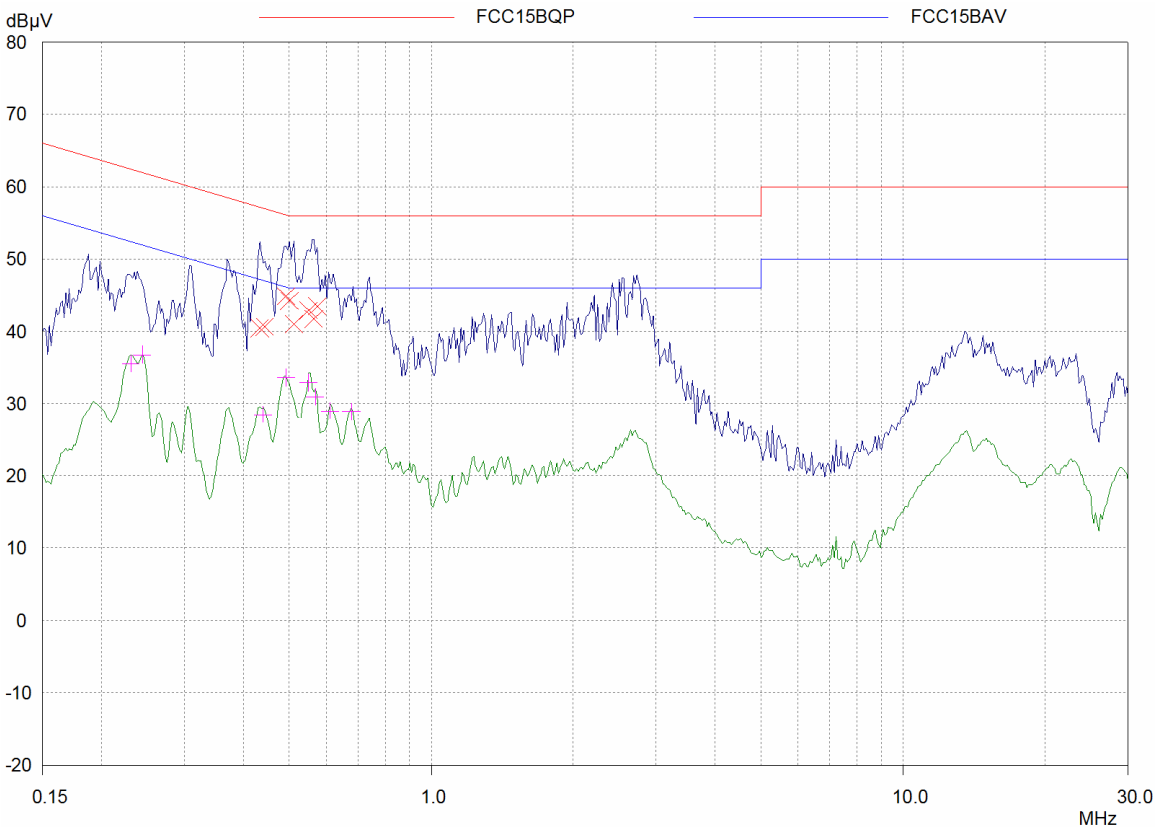
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Report No.: SHEMO07120007IT
Page 16 of 30

GSM 850 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.43285	40.42	57.20	16.78
0.44332	40.66	57.00	16.34
0.49171	44.87	56.14	11.27
0.49961	44.27	56.01	11.74
0.51169	40.98	56.00	15.02
0.54974	42.90	56.00	13.10
0.56304	41.74	56.00	14.26
0.57208	43.45	56.00	12.55

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.23065	35.54	52.43	16.89
0.24388	36.77	51.96	15.19
0.4398	28.45	47.07	18.62
0.49171	33.60	46.14	12.54
0.54974	32.94	46.00	13.06
0.56754	30.97	46.00	15.03
0.60974	29.02	46.00	16.98
0.67628	28.88	46.00	17.12

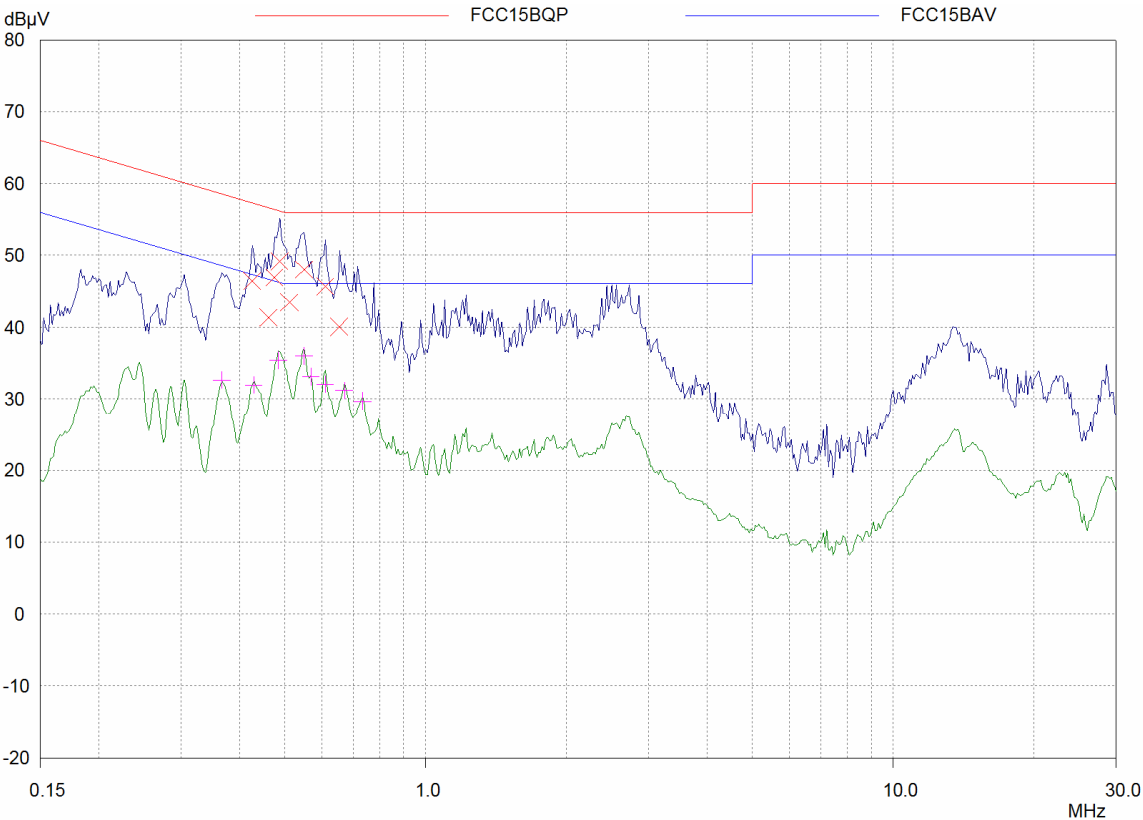
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Report No.: SHEMO07120007IT
Page 17 of 30

N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.42601	46.43	57.33	10.90
0.46134	41.30	56.67	15.37
0.47628	46.92	56.40	9.48
0.4878	49.18	56.21	7.03
0.51169	43.46	56.00	12.54
0.54974	48.03	56.00	7.97
0.60974	45.67	56.00	10.33
0.65507	40.04	56.00	15.96

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.36615	32.62	48.59	15.97
0.42941	31.89	47.26	15.37
0.48393	35.35	46.27	10.92
0.54974	35.96	46.00	10.04
0.56754	33.10	46.00	12.90
0.60974	32.03	46.00	13.97
0.67092	31.16	46.00	14.84
0.73238	29.64	46.00	16.36

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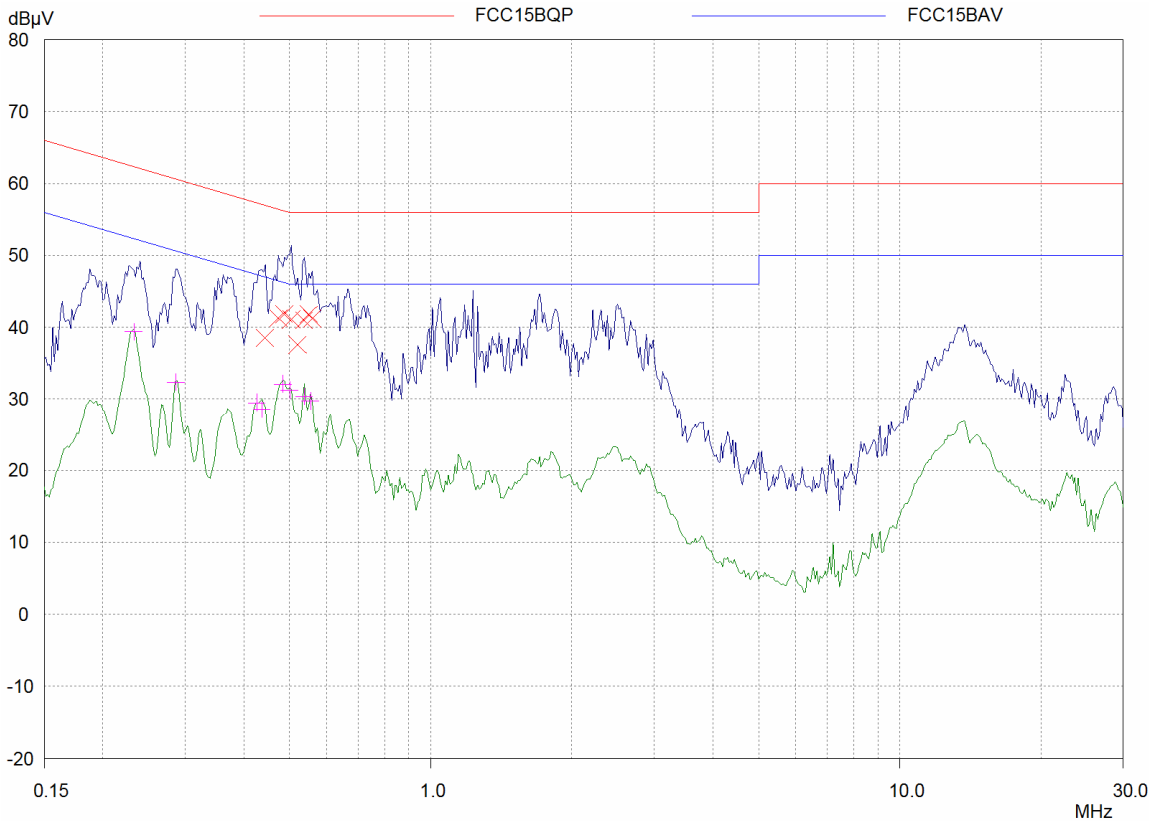
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Report No.: SHEMA007120007IT
Page 18 of 30

PCS1900 connected:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.44332	38.51	57.00	18.49
0.4725	41.27	56.47	15.20
0.4878	41.80	56.21	14.41
0.5036	41.07	56.00	14.93
0.51991	37.55	56.00	18.45
0.53675	40.94	56.00	15.06
0.54974	41.81	56.00	14.19
0.55857	41.22	56.00	14.78

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.23249	39.39	52.36	12.97
0.28601	32.29	50.64	18.35
0.42601	29.48	47.33	17.85
0.43631	28.50	47.13	18.63
0.48393	32.08	46.27	14.19
0.49961	31.22	46.01	14.79
0.53675	30.32	46.00	15.68
0.55413	29.75	46.00	16.25

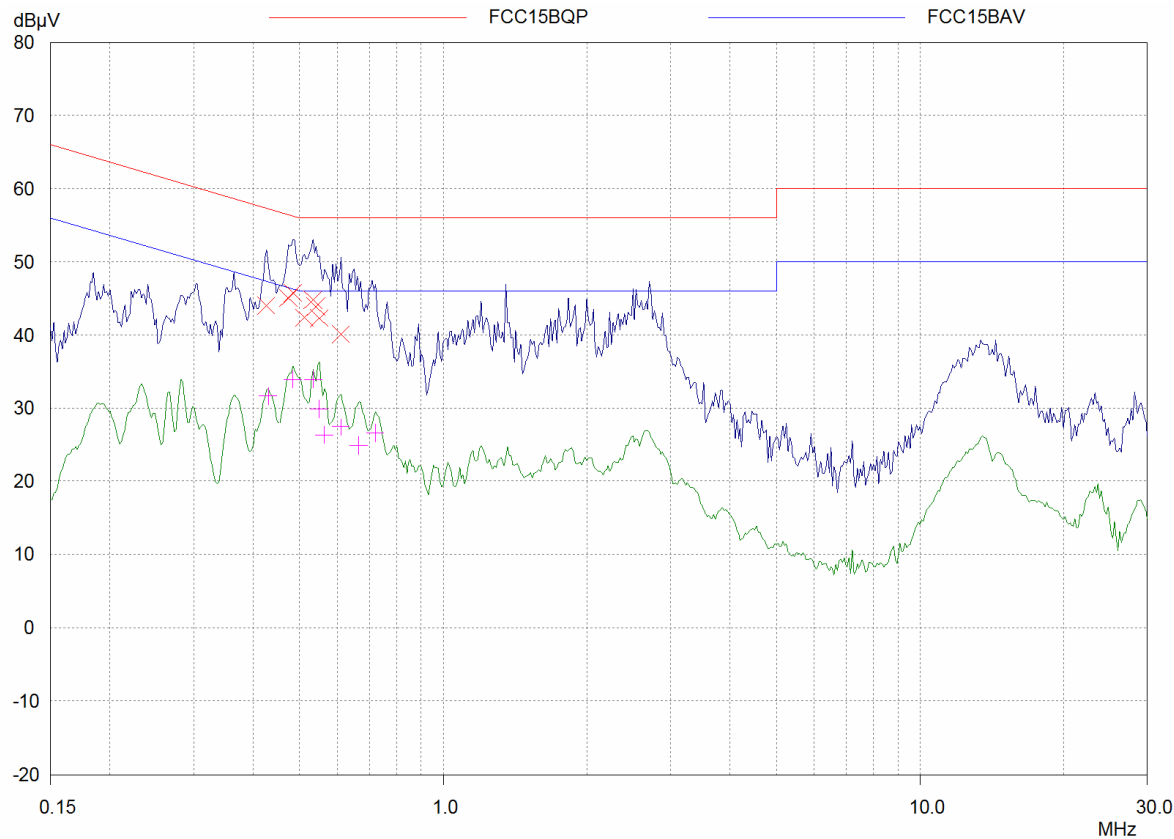
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Report No.: SHEMA007120007IT
Page 19 of 30

N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.42601	44.01	57.33	13.32
0.4725	45.05	56.47	11.42
0.48393	45.72	56.27	10.55
0.51169	42.36	56.00	13.64
0.53249	44.77	56.00	11.23
0.54104	43.88	56.00	12.12
0.54974	42.31	56.00	13.69
0.60974	40.07	56.00	15.93

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.42941	31.64	47.26	15.62
0.48393	33.87	46.27	12.40
0.53249	33.85	46.00	12.15
0.54974	29.84	46.00	16.16
0.56304	26.17	46.00	19.83
0.60974	27.31	46.00	18.69
0.66559	24.75	46.00	21.25
0.7208	26.45	46.00	19.55

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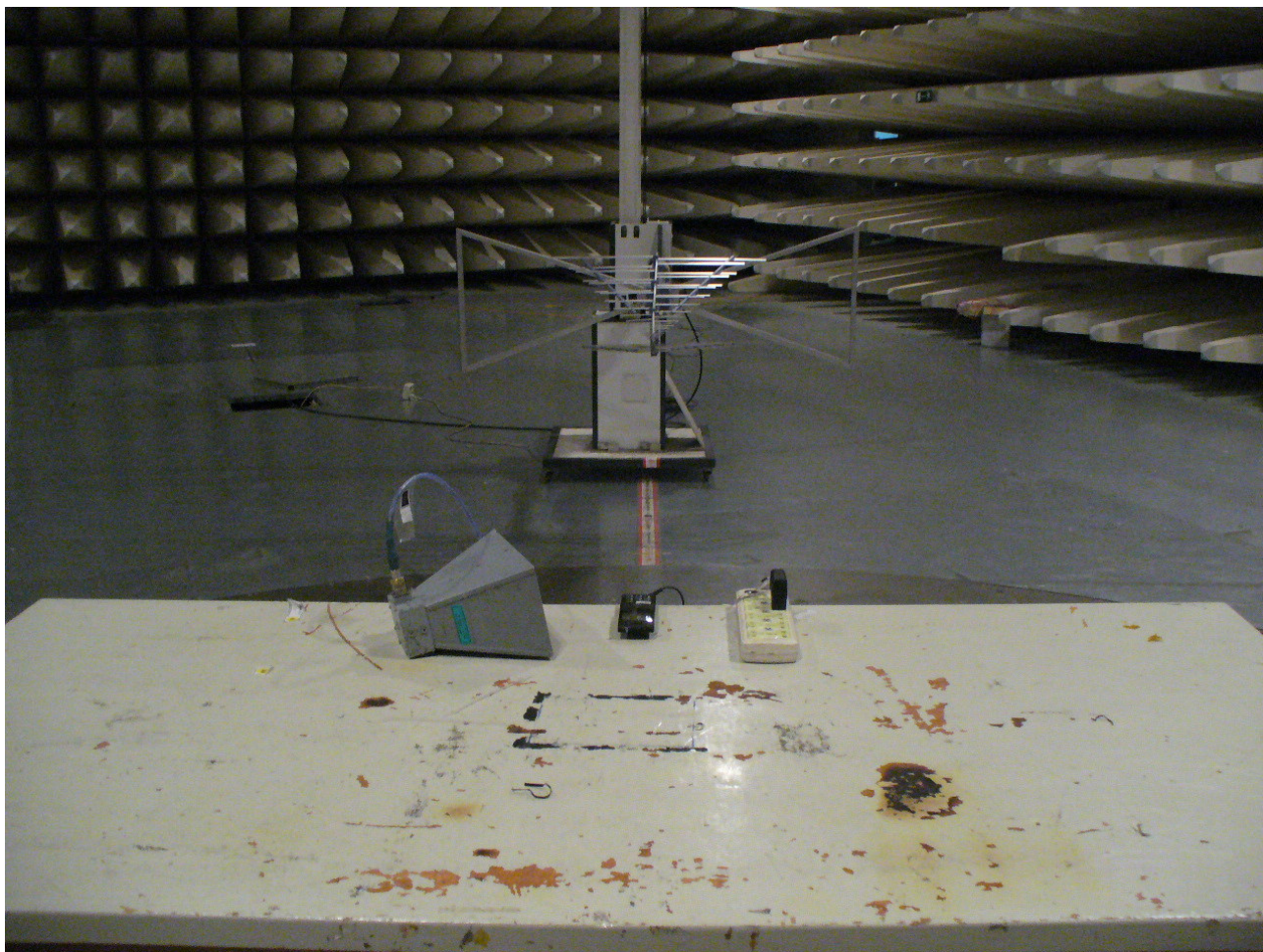
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Report No.: SHEMO07120007IT
Page 20 of 30

7 Photographs

7.1 Radiated Emission Test Setup

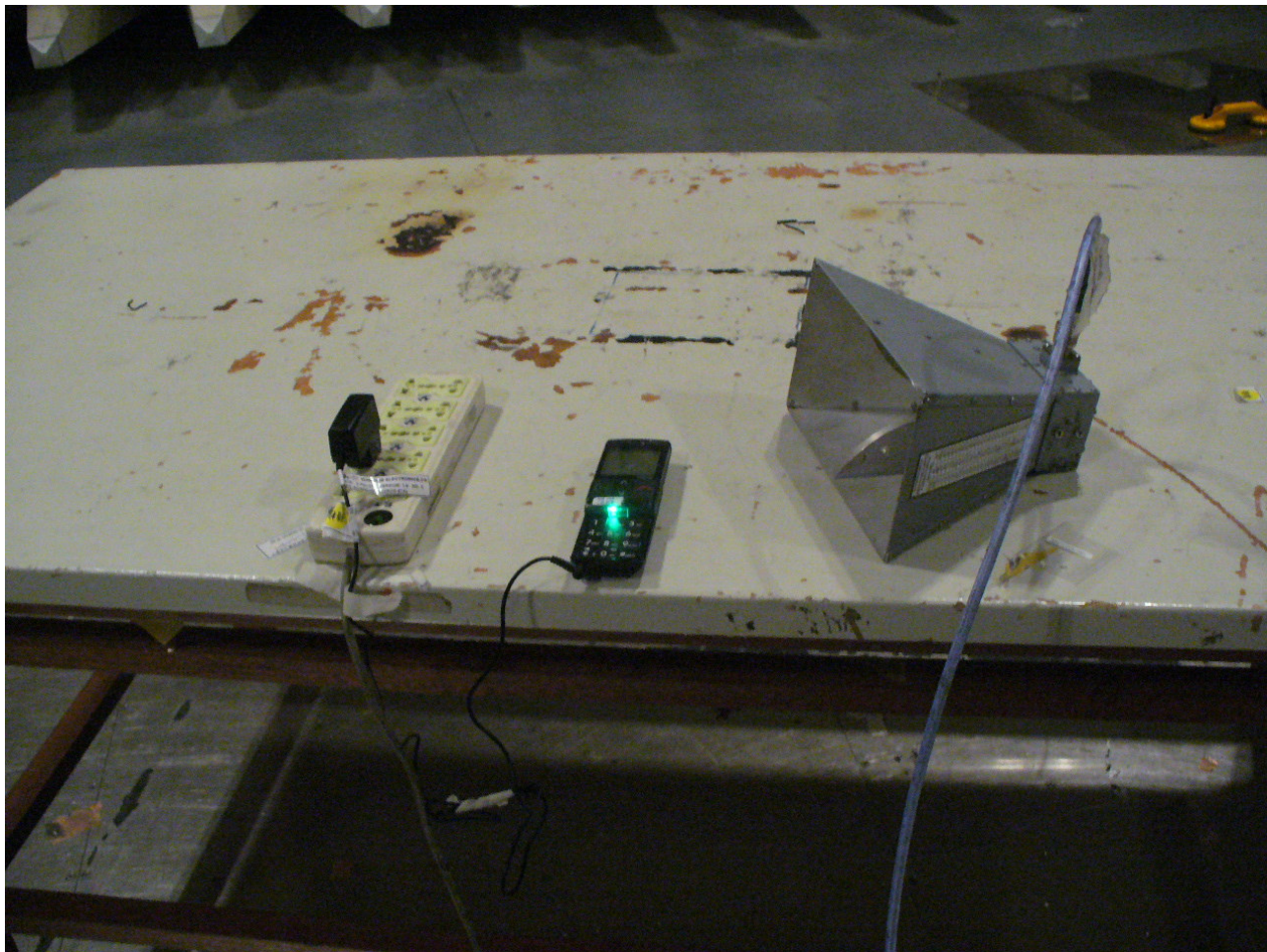


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Report No.: SHEMO07120007IT
Page 21 of 30



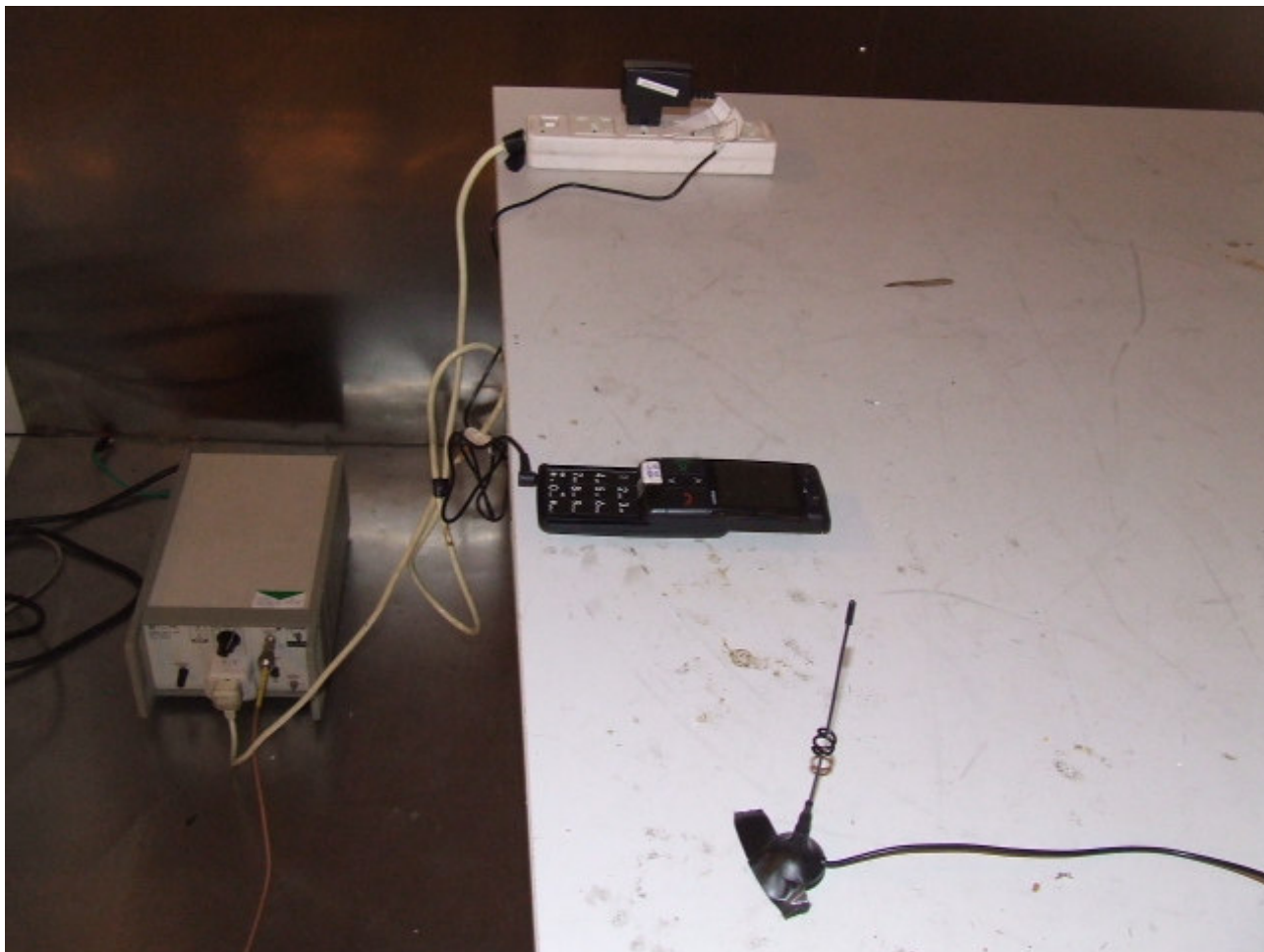
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Report No.: SHEMO07120007IT
Page 22 of 30

7.2 Conducted Emission Test Setup



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Report No.: SHEMO07120007IT
Page 23 of 30

7.3 EUT Construcational Details



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Report No.: SHEMO07120007IT
Page 24 of 30



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Report No.: SHEMO07120007IT
Page 25 of 30



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Page 26 of 30



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Page 27 of 30



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Report No.: SHEMO07120007IT
Page 28 of 30



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Report No.: SHEMA007120007IT
Page 29 of 30



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Report No.: SHEMO07120007IT
Page 30 of 30



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