

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

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Report No.: SHEMO080500017IT

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EMC TEST REPORT

Application No.: SHEMO080500017IT

Applicant: Shanghai Simcom Ltd.

Equipment Under Test (EUT):

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

EUT Name: GSM/GPRS Module

Model Name: SIM340DZ

Market Name: SIM340DZ

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

Date of Receipt: May 22, 2008

Date of Test: May 30, 2008

Date of Issue: June 4, 2008

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



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



San Yuan
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: Shanghai Simcom Ltd.
Address of Applicant: SIM Technology Building, 700 Yishan Rd., Shanghai

4.2 General Description of E.U.T.

EUT Name: GSM/GPRS Module
Model No.: SIM340DZ
Marketing Name: SIM340DZ
Frequency Bands GSM850/GSM900/DCS1800/PCS1900
Testing Bands GSM850/PCS1900

4.3 Description of Support Units

The EUT has been tested as an independent unit.

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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	√
FCC Part 15 Subpart B: 2005	Conducted Emission	√

× Indicates that the test is not applicable

√ Indicates that the test is applicable

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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.

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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
2	BROADBAND 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
4	UNIVERSAL RADIO 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

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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:	May 30, 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°C Humidity: 55 % RH Atmospheric Pressure: 1014 mbar
EUT Operation: EUT allocated GSM850/PCS1900 connected to adapter

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.

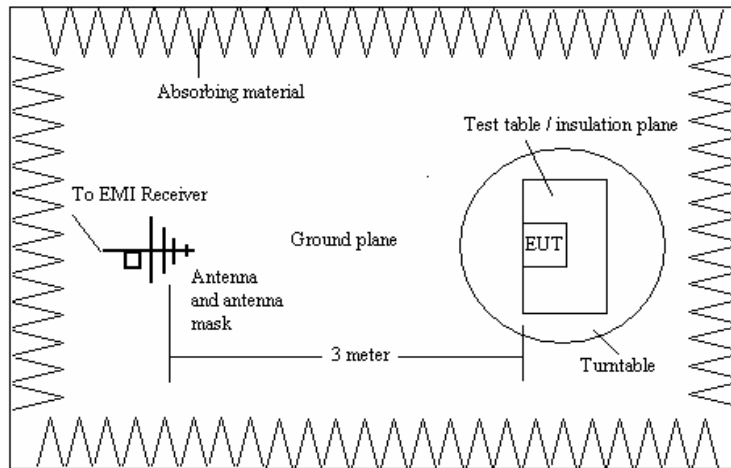
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6.1.2 Test setup:



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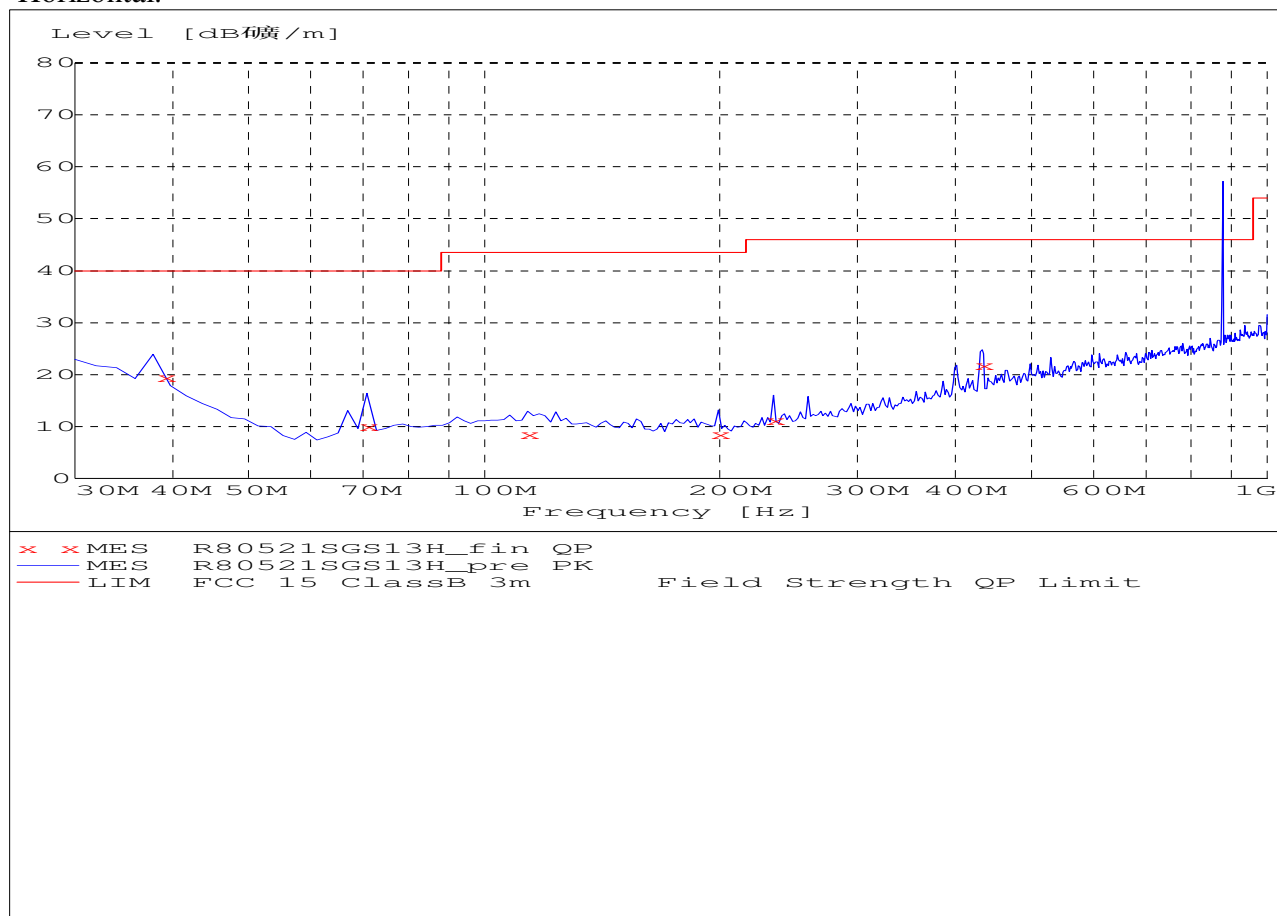
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GSM850 idle mode:

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit	Margin
39.026316	19.32	100.0	270.00	HORIZONTAL	40.00	20.68
70.821643	10.00	200.0	90.00	HORIZONTAL	40.00	30.00
113.587174	8.49	100.0	0.00	HORIZONTAL	43.52	35.03
199.118236	8.35	200.0	90.00	HORIZONTAL	43.52	35.17
234.108216	11.03	100.0	270.00	HORIZONTAL	46.02	34.99
432.384770	21.66	100.0	180.00	HORIZONTAL	46.02	24.36

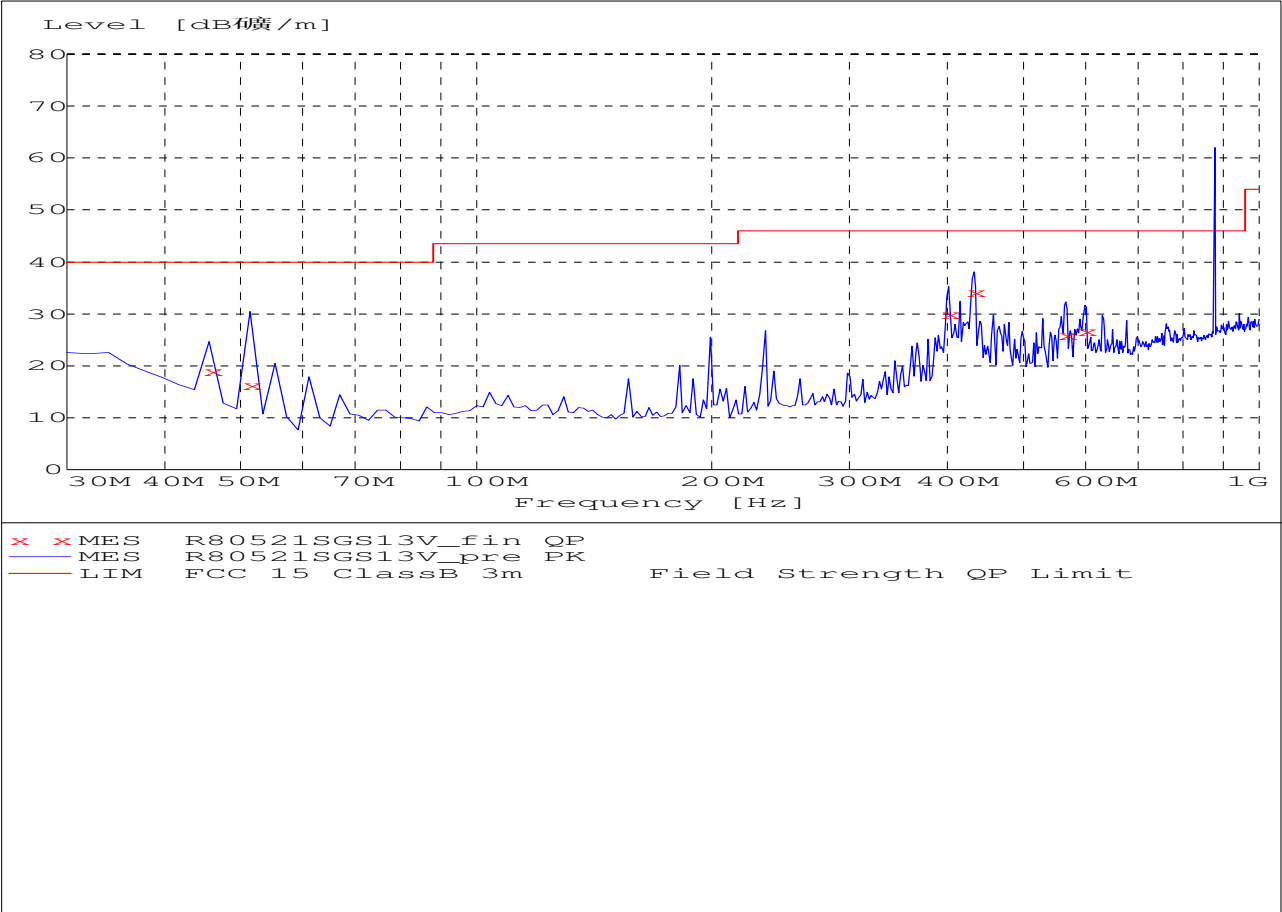
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg			

45.799826	18.82	100.0	180.00	VERTICAL	40.00	21.18
51.382766	16.26	200.0	0.00	VERTICAL	40.00	23.74
401.282565	29.91	200.0	0.00	VERTICAL	46.02	16.11
432.384770	34.04	300.0	90.00	VERTICAL	46.02	11.98
566.513026	25.78	400.0	180.00	VERTICAL	46.02	20.24
599.559118	26.53	400.0	90.00	VERTICAL	46.02	19.49

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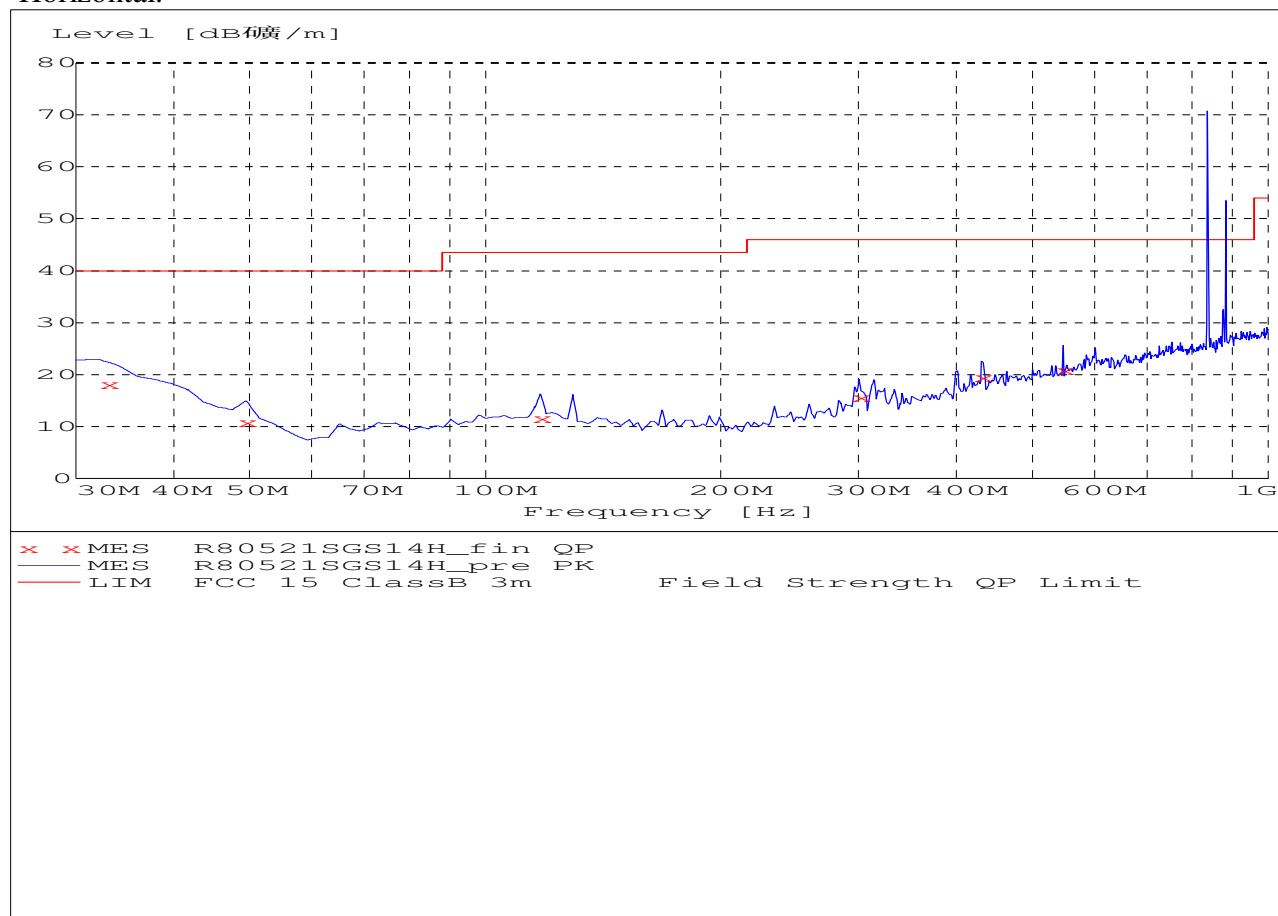
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GSM850 communication mode:

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit	Margin
32.914092	18.12	200.0	180.00	HORIZONTAL	40.00	21.88
49.438878	10.71	300.0	90.00	HORIZONTAL	40.00	29.29
117.474950	11.47	200.0	180.00	HORIZONTAL	43.52	32.05
300.200401	15.50	200.0	90.00	HORIZONTAL	46.02	30.52
430.440882	19.38	200.0	90.00	HORIZONTAL	46.02	26.64
547.074148	20.84	100.0	270.00	HORIZONTAL	46.02	25.18

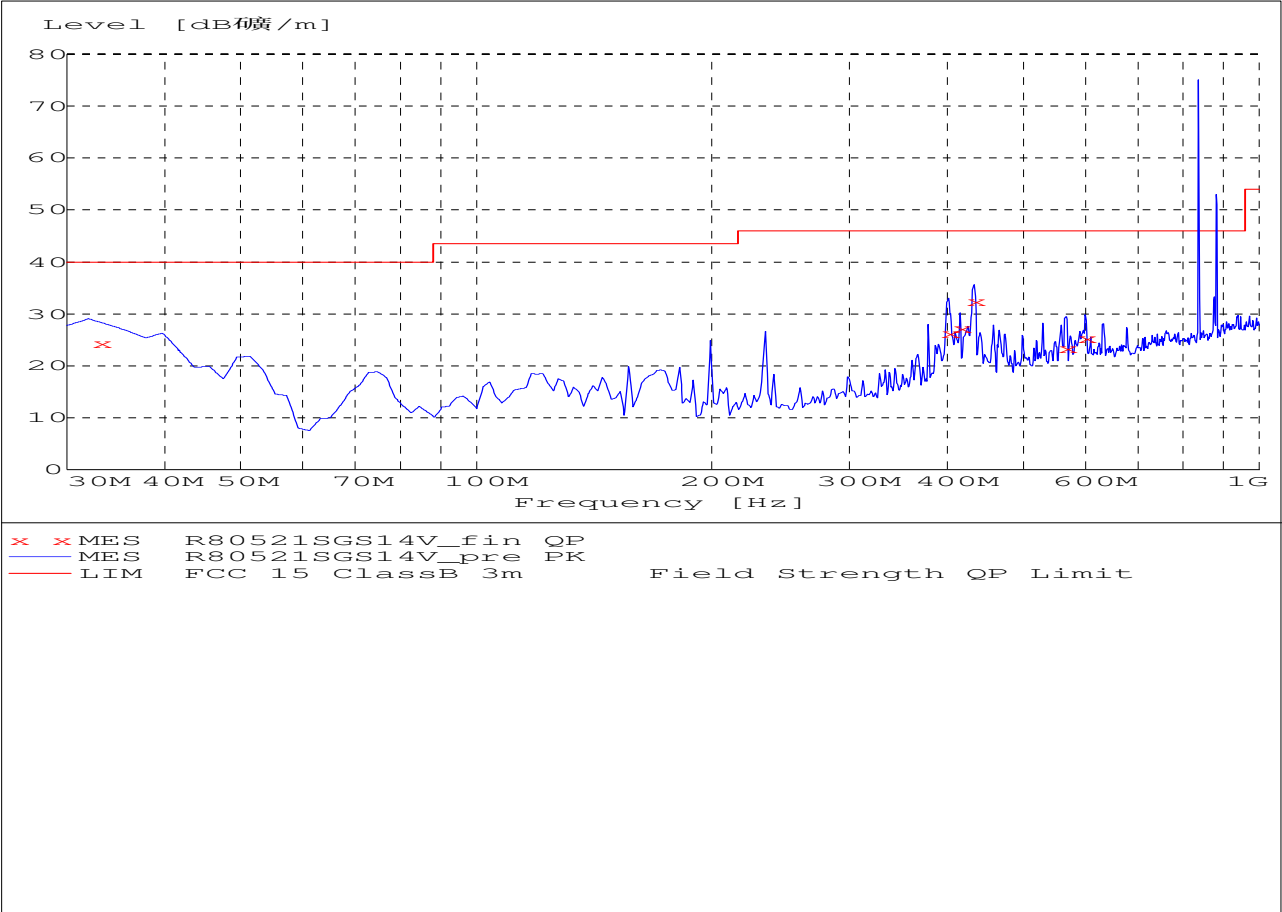
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg			

33.090651	24.20	100.0	90.00	VERTICAL	40.00	15.80
401.282565	26.07	200.0	270.00	VERTICAL	46.02	19.95
414.889780	27.16	300.0	90.00	VERTICAL	46.02	18.86
432.384770	32.42	200.0	180.00	VERTICAL	46.02	13.60
566.513026	23.40	200.0	270.00	VERTICAL	46.02	22.62
599.559118	25.20	300.0	0.00	VERTICAL	46.02	20.82

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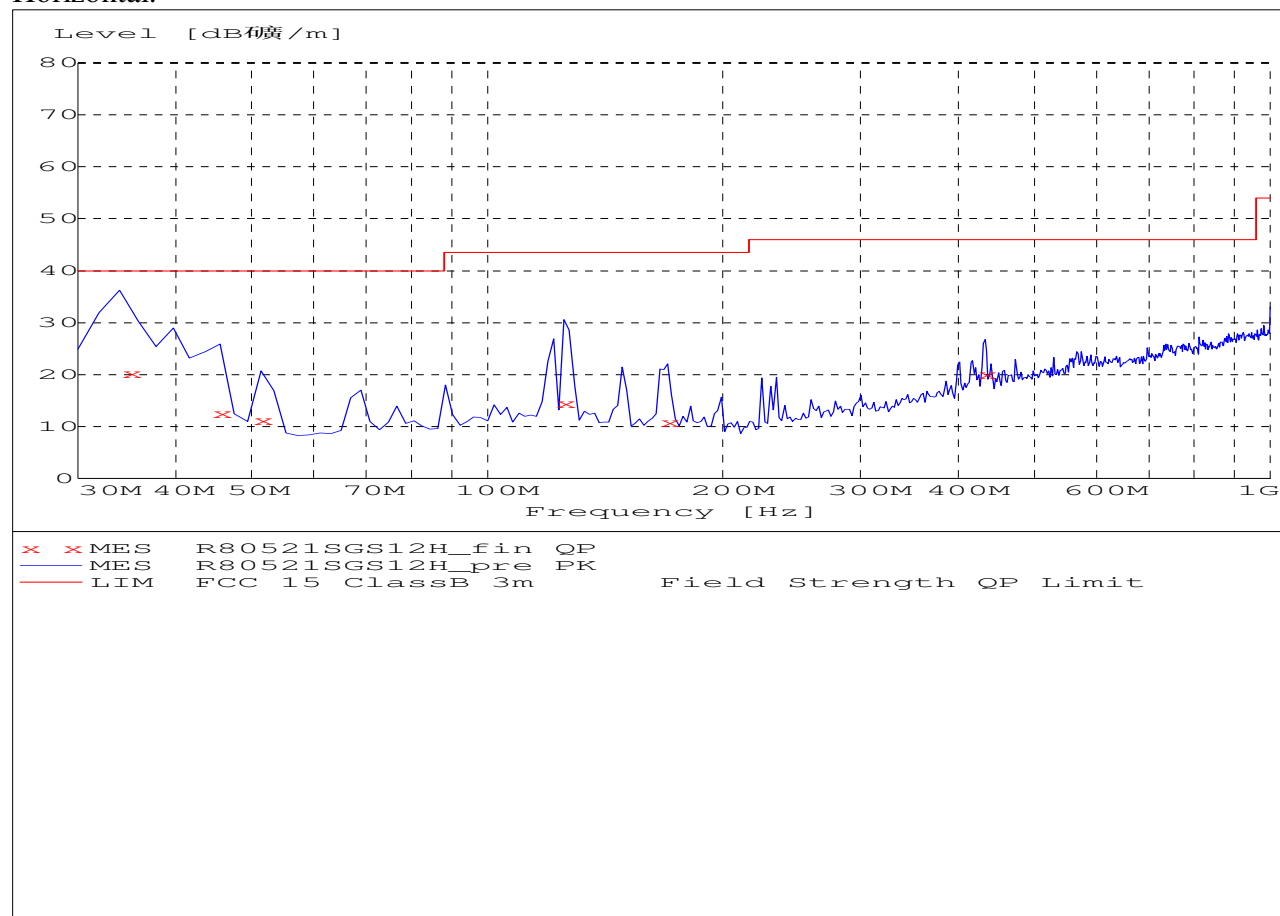
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PCS1900 idle mode:

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit	Margin
34.945540	20.22	100.0	0.00	HORIZONTAL	40.00	19.78
45.551102	12.41	100.0	90.00	HORIZONTAL	40.00	27.59
51.382766	11.08	300.0	90.00	HORIZONTAL	40.00	28.92
125.250501	14.36	400.0	0.00	HORIZONTAL	43.52	29.16
169.959920	10.77	100.0	90.00	HORIZONTAL	43.52	32.75
432.384770	20.01	100.0	90.00	HORIZONTAL	46.02	26.01

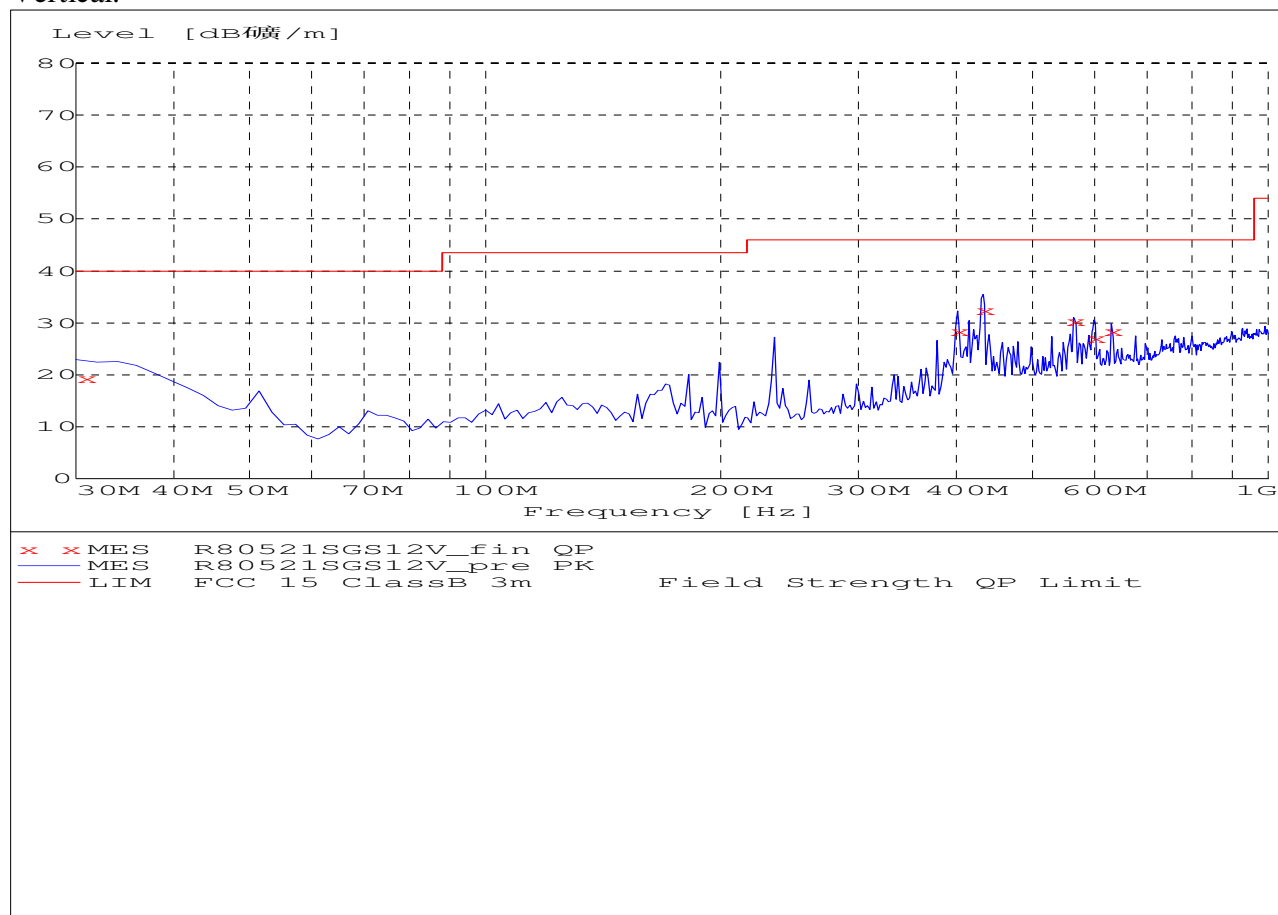
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Vertical:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit	Margin
30.780918	19.31	200.0	0.00	VERTICAL	40.00	20.69
401.282565	28.34	200.0	60.00	VERTICAL	46.02	17.68
432.384770	32.41	200.0	90.00	VERTICAL	46.02	13.61
564.569138	30.29	100.0	90.00	VERTICAL	46.02	15.73
599.559118	27.02	200.0	90.00	VERTICAL	46.02	19.00
630.661323	28.33	400.0	270.00	VERTICAL	46.02	17.69

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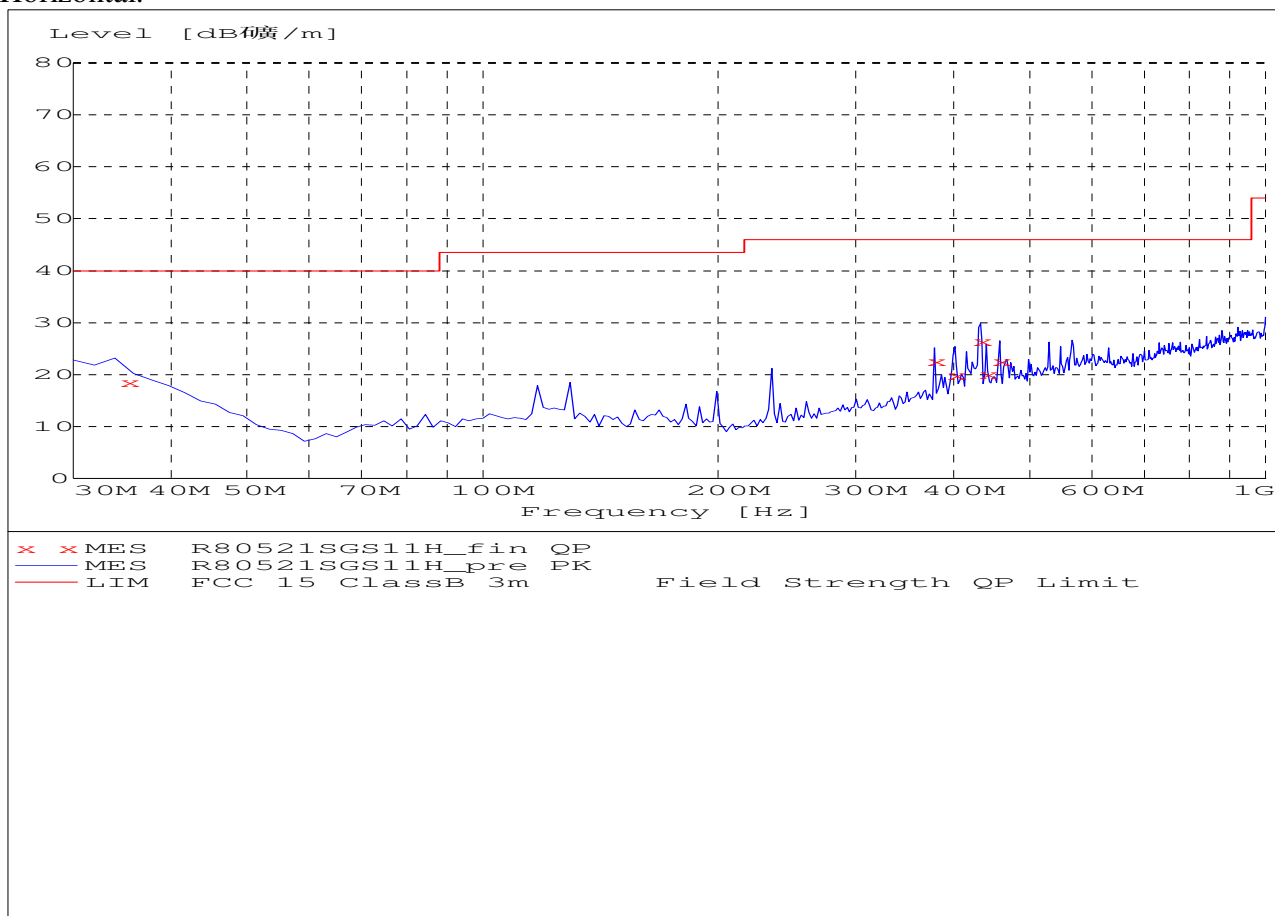
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PCS1900 communication mode:

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit	Margin
35.181006	18.49	100.0	90.00	HORIZONTAL	40.00	21.51
377.955912	22.56	200.0	180.00	HORIZONTAL	46.02	23.46
401.282565	19.86	200.0	180.00	HORIZONTAL	46.02	26.16
432.384770	26.40	200.0	0.00	HORIZONTAL	46.02	19.62
440.160321	20.15	300.0	90.00	HORIZONTAL	46.02	25.87
457.655311	22.56	300.0	0.00	HORIZONTAL	46.02	23.46

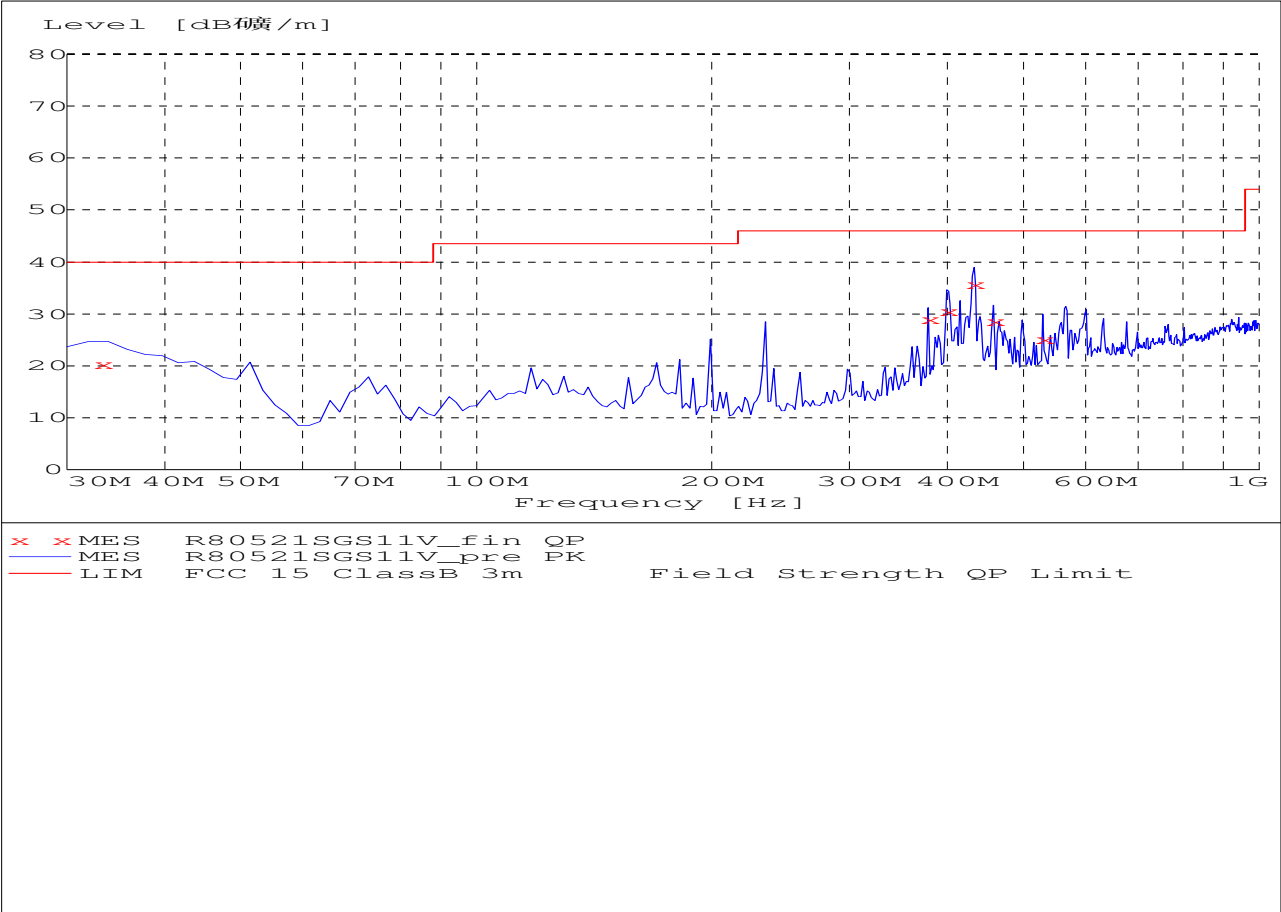
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Vertical:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dBμV/m	cm	deg			

33.201979	20.20	100.0	270.00	VERTICAL	40.00	19.80
377.995992	28.89	100.0	90.00	VERTICAL	46.02	17.13
399.338677	30.42	120.0	90.00	VERTICAL	46.02	15.60
432.268537	35.62	100.0	90.00	VERTICAL	46.02	10.40
457.655311	28.59	200.0	90.00	VERTICAL	46.02	17.43
529.579158	25.05	300.0	0.00	VERTICAL	46.02	20.97

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15 Subpart B
Test Method:	ANSI C63.4
Test Date:	May 30, 2008
Frequency Range:	150kHz to 30MHz
Class:	N/A
Limit:	66 dBμV - 56 dBμV between 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°C Humidity: 57% RH Atmospheric Pressure: 1012 mbar

EUT Operation: Test EUT is the in the allocated channel mode Charging,
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.

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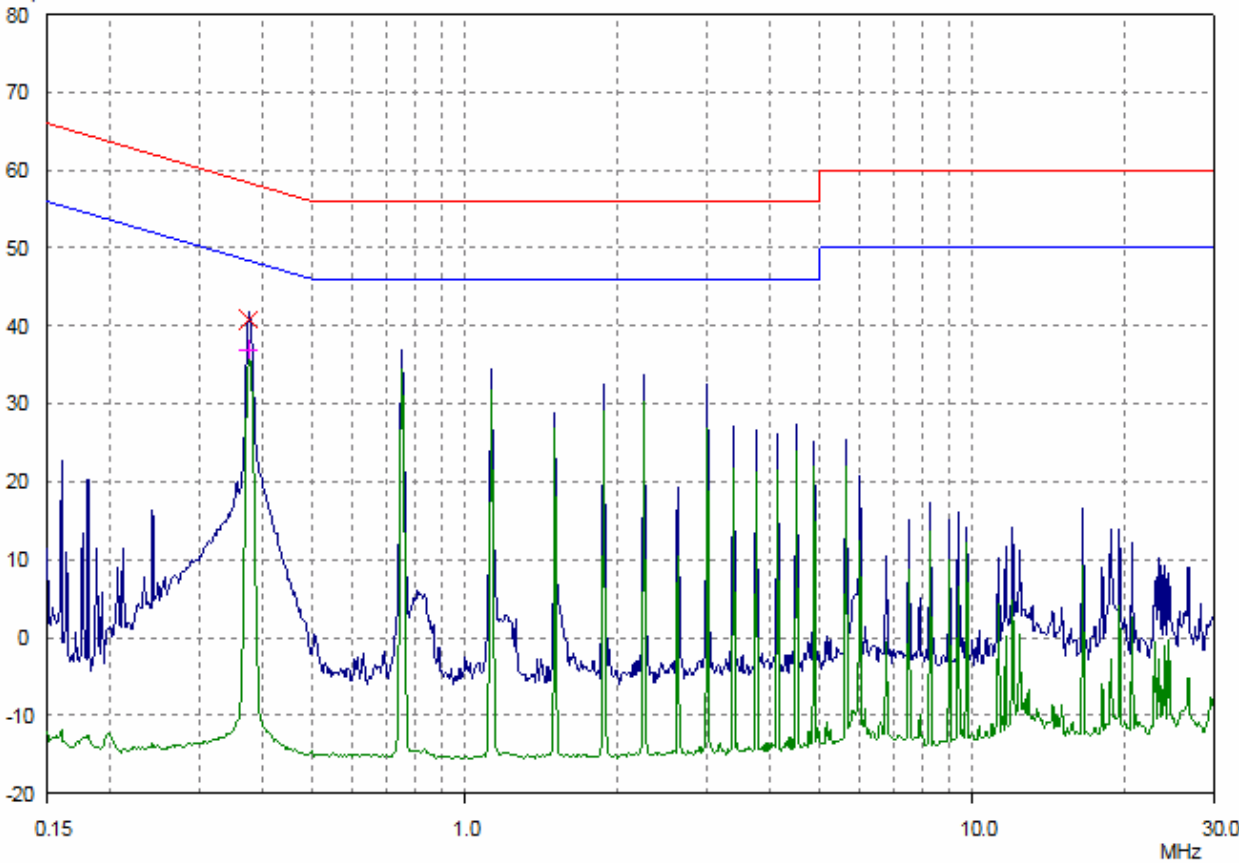
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GSM850 idle mode:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.37501	40.68	58.39	17.71

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.37501	36.91	48.39	11.48

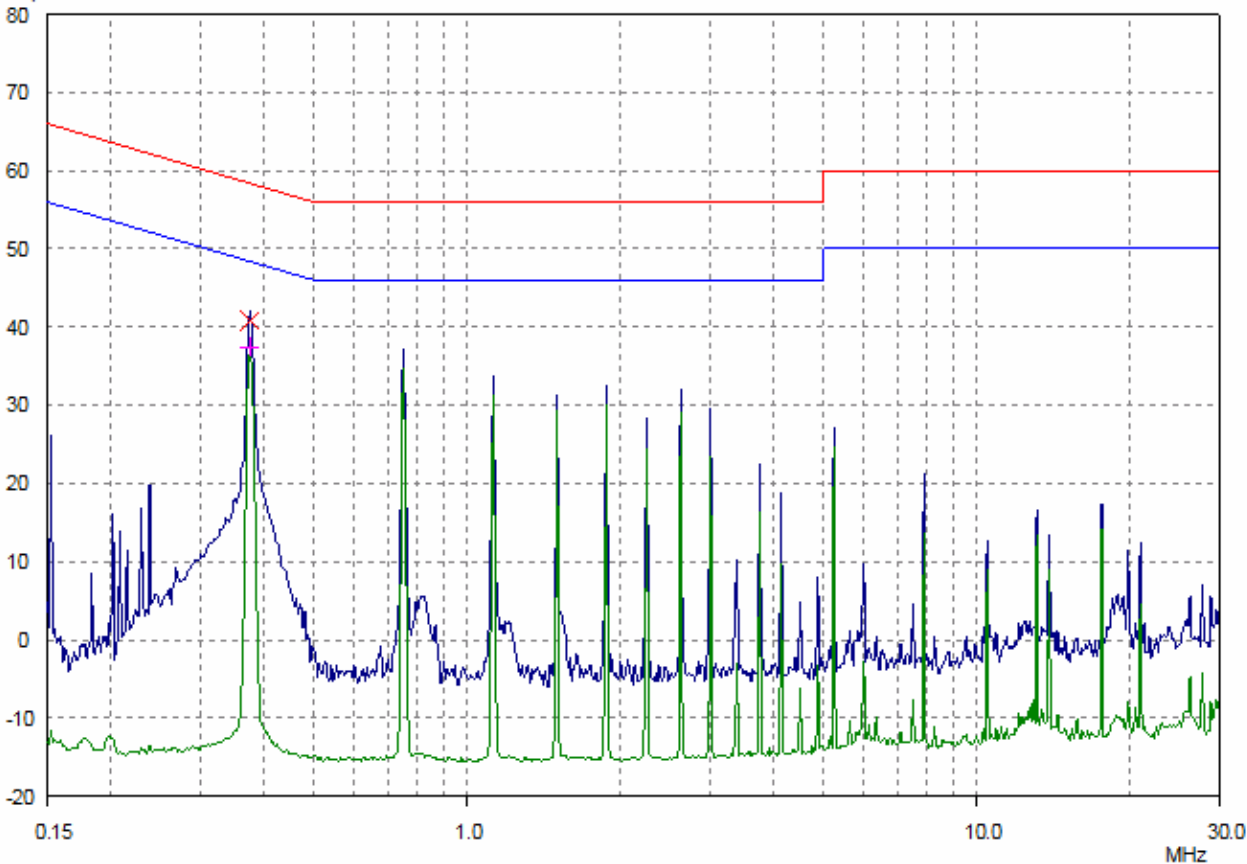
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.37501	40.68	58.39	17.71

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.37501	37.34	48.39	11.05

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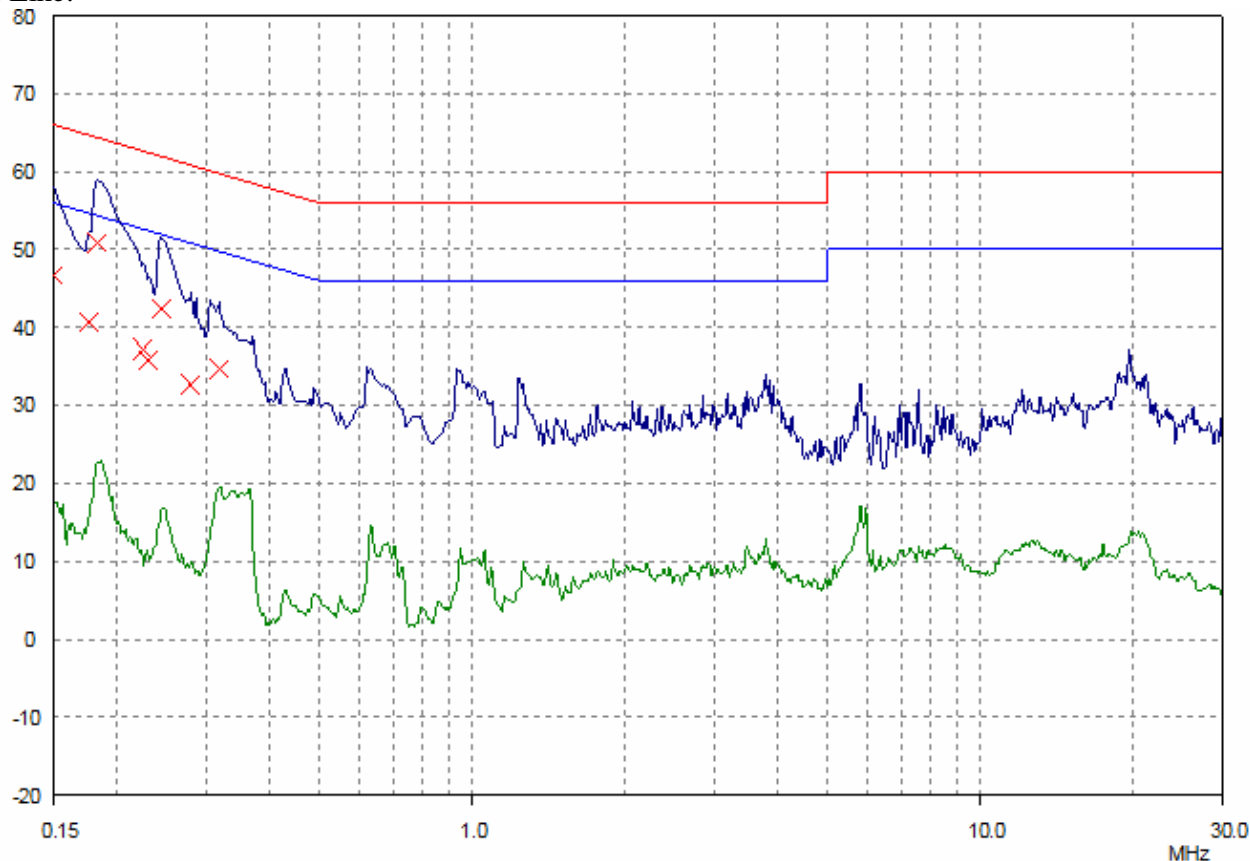
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GSM850 communication mode:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.15	46.73	66.00	19.27
0.17591	40.63	64.68	24.05
0.18306	50.80	64.35	13.55
0.2252	37.22	62.62	25.40
0.23065	35.77	62.43	26.66
0.24388	42.36	61.96	19.60
0.27926	32.59	60.84	28.25
0.31723	34.66	59.78	25.12

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
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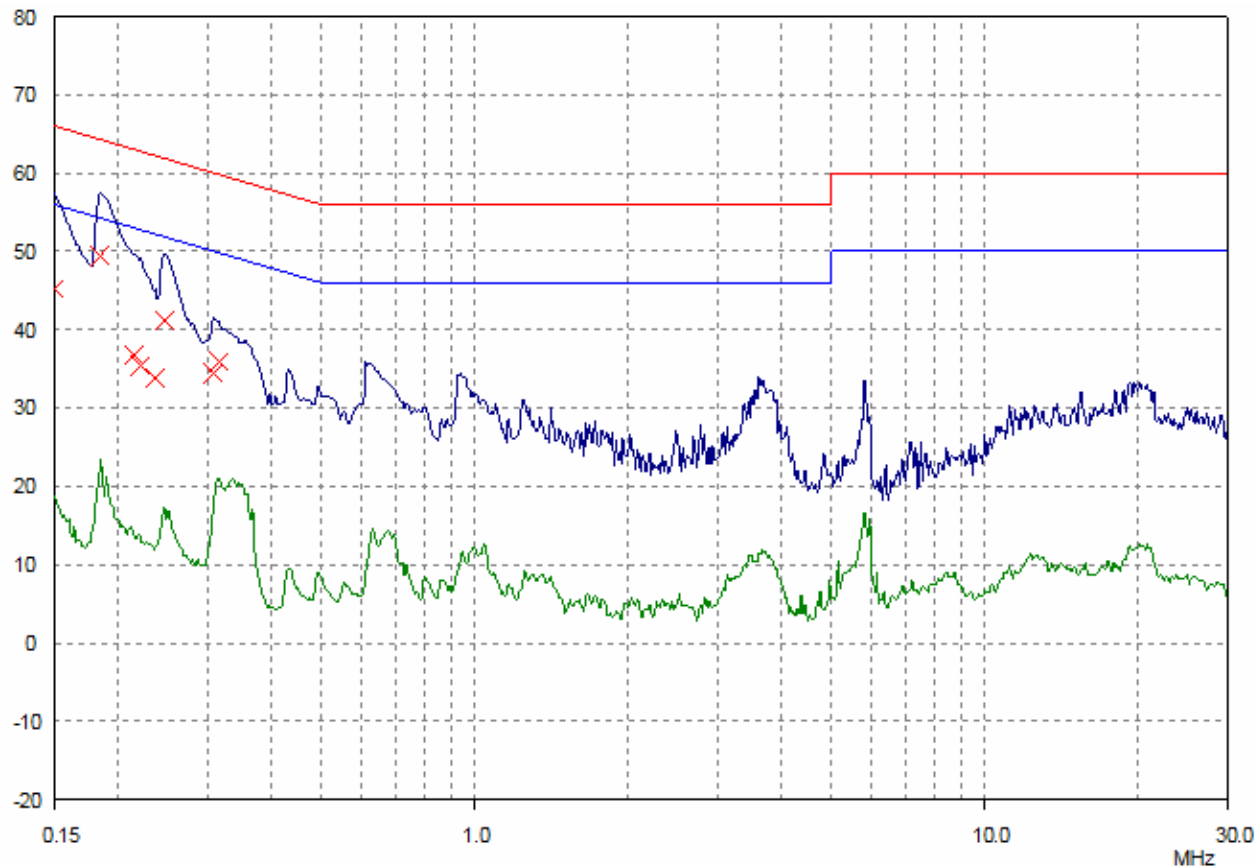
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.15	45.12	66.00	20.88
0.18452	49.45	64.28	14.83
0.21469	36.79	63.02	26.23
0.22164	35.41	62.76	27.35
0.23623	33.71	62.23	28.52
0.24583	41.18	61.90	20.72
0.30728	34.46	60.04	25.58
0.31471	35.85	59.85	24.00

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
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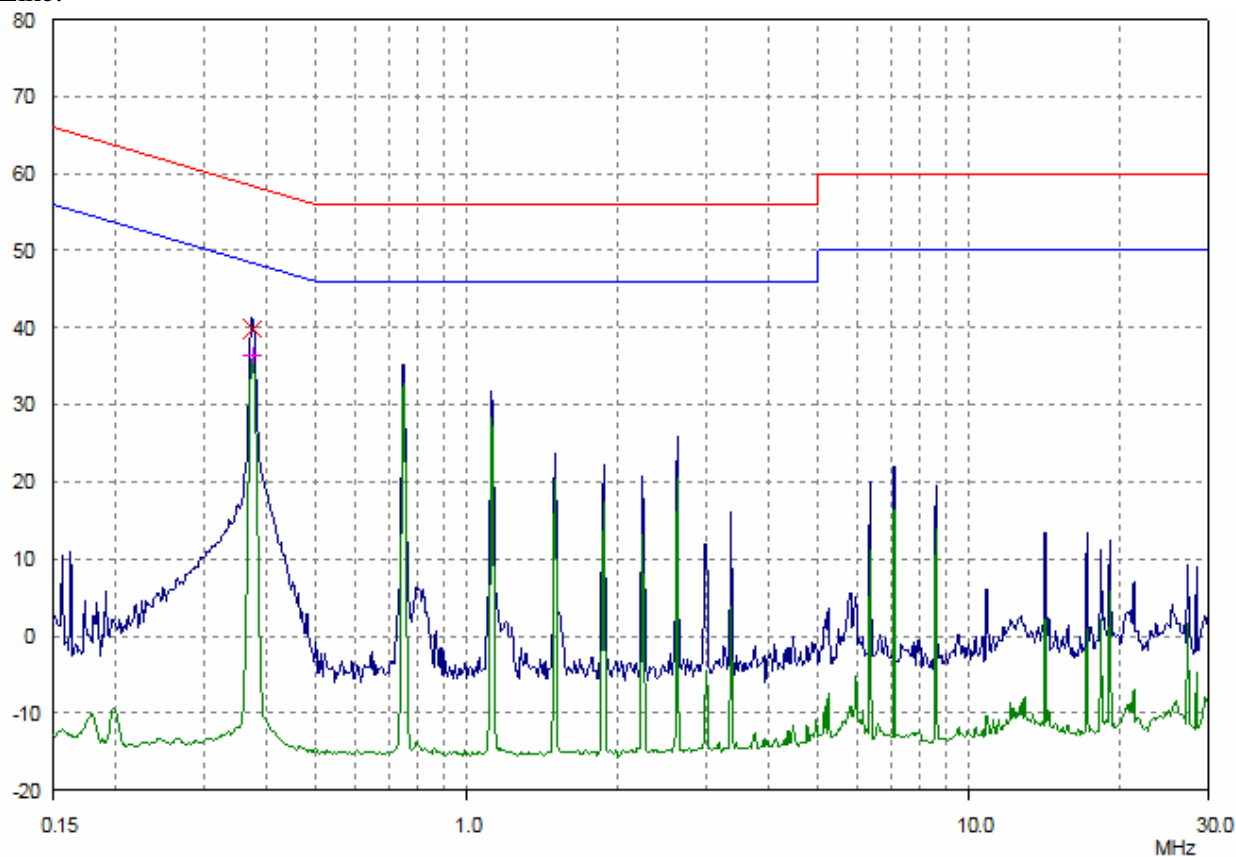
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PCS1900 idle mode:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.37501	39.87	58.39	18.52

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.37501	36.25	48.39	12.14

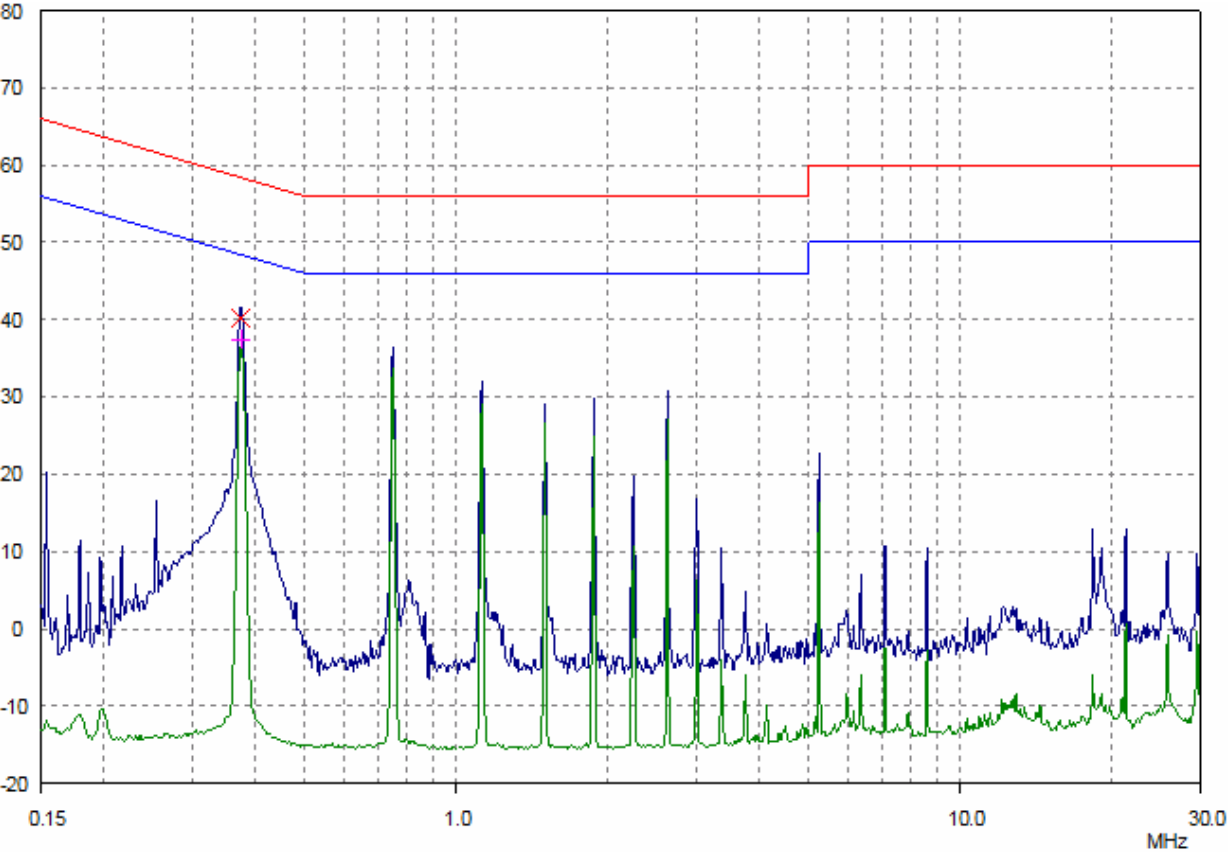
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.37501	40.16	58.39	18.23

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.37501	37.34	48.39	11.05

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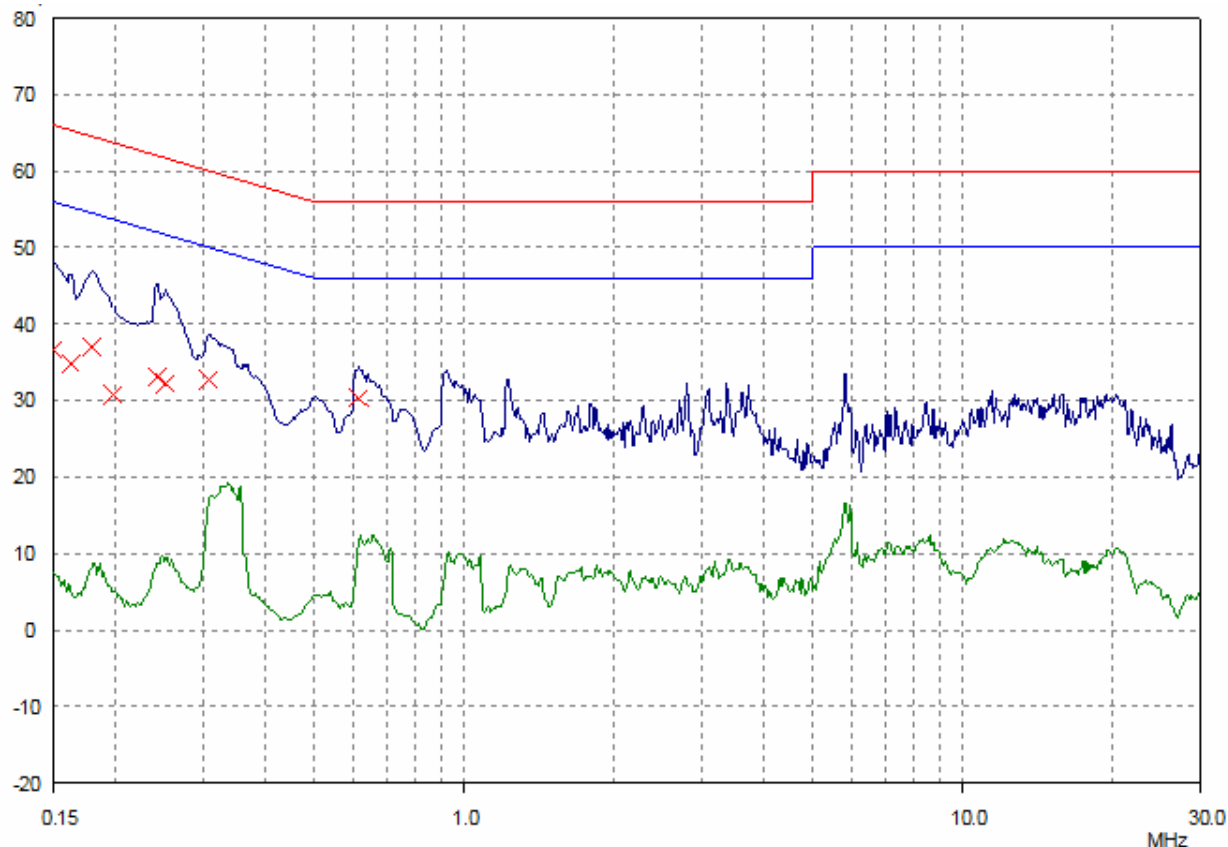
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PCS1900 communication mode:

L Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.15	36.67	66.00	29.33
0.16244	34.84	65.34	30.50
0.17874	36.95	64.54	27.59
0.19824	30.74	63.68	32.94
0.24194	33.12	62.03	28.91
0.25178	32.16	61.70	29.54
0.30728	32.65	60.04	27.39
0.61461	30.37	56.00	25.63

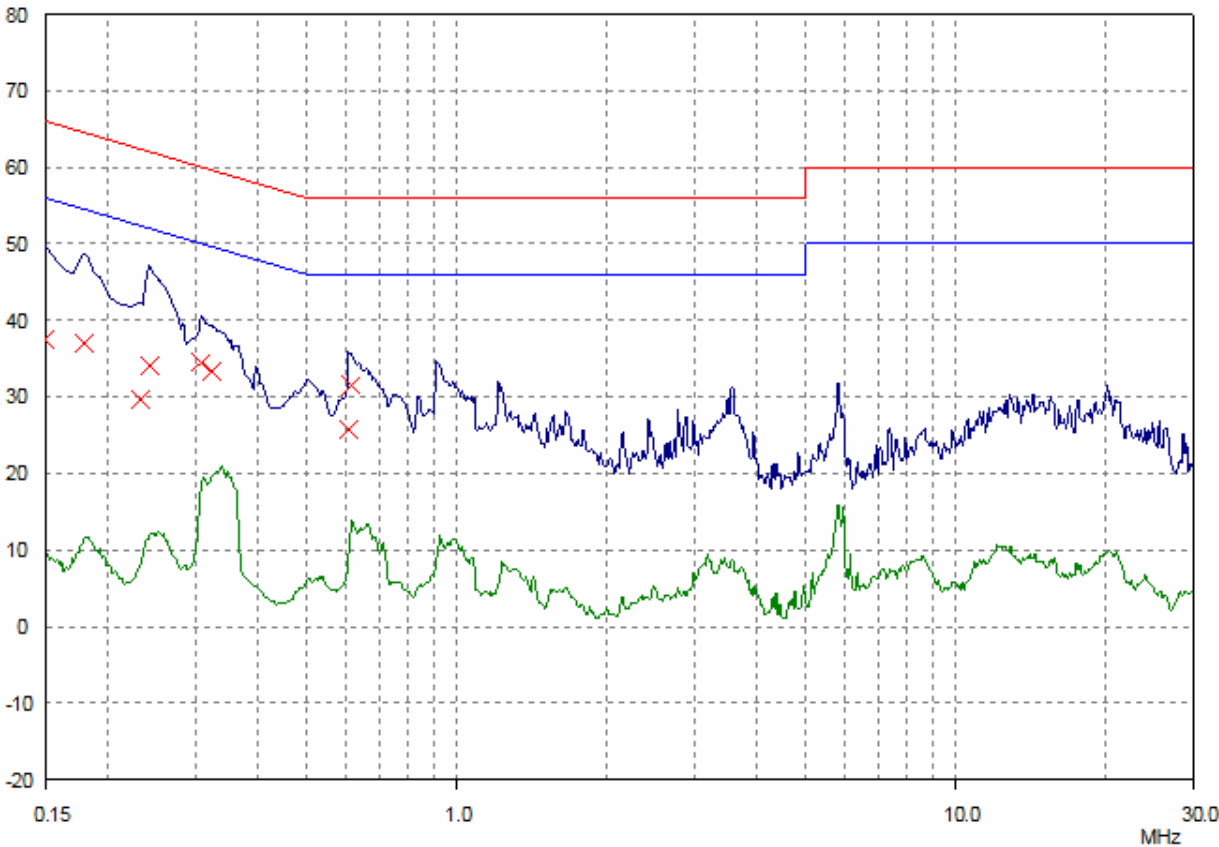
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.15	37.51	66.00	28.49
0.17874	37.05	64.54	27.49
0.23249	29.68	62.36	32.68
0.24194	34.07	62.03	27.96
0.30728	34.52	60.04	25.52
0.32233	33.29	59.65	26.36
0.6049	25.73	56.00	30.27
0.61461	31.56	56.00	24.44

Frequency QP Level QP Limit QP Delta

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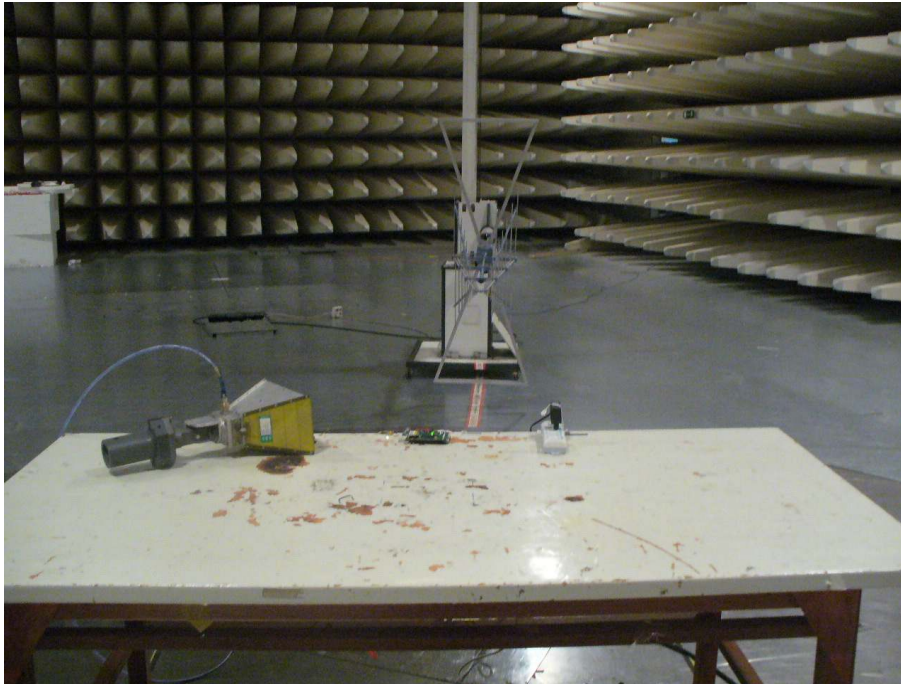
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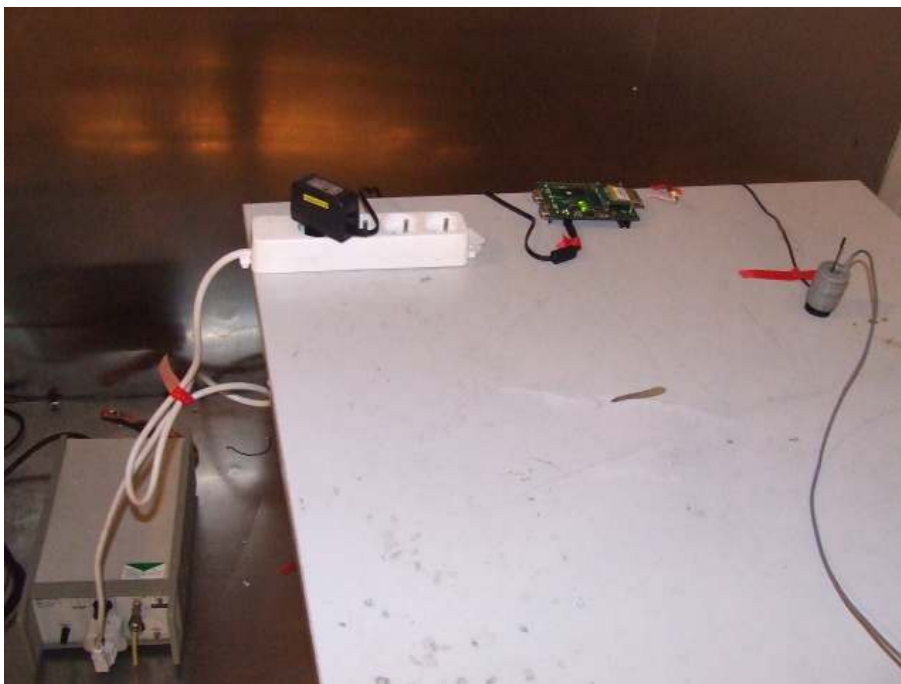
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7 EQUIPMENT UNDER TEST PICTURES

7.1.1 Radiated Emission Test Setup



7.1.2 Conducted Emission Test Setup



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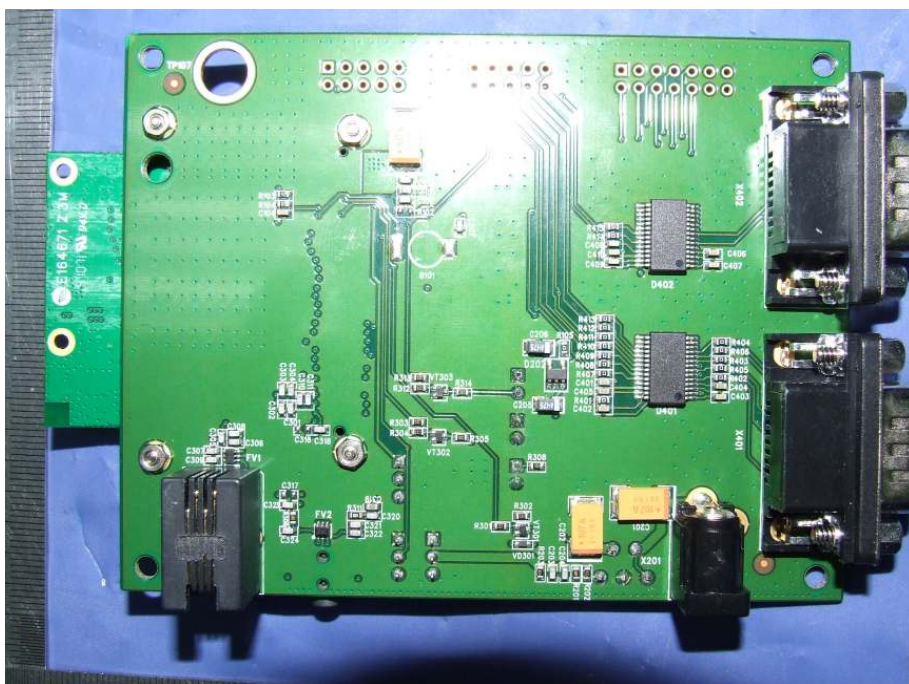
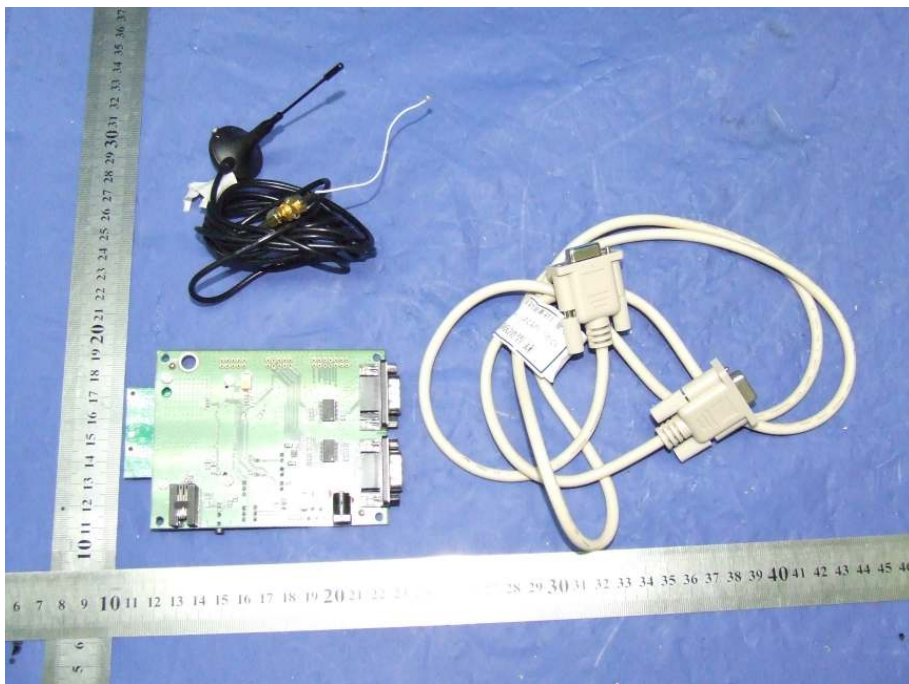
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7.1.3 EUT Constructional Details



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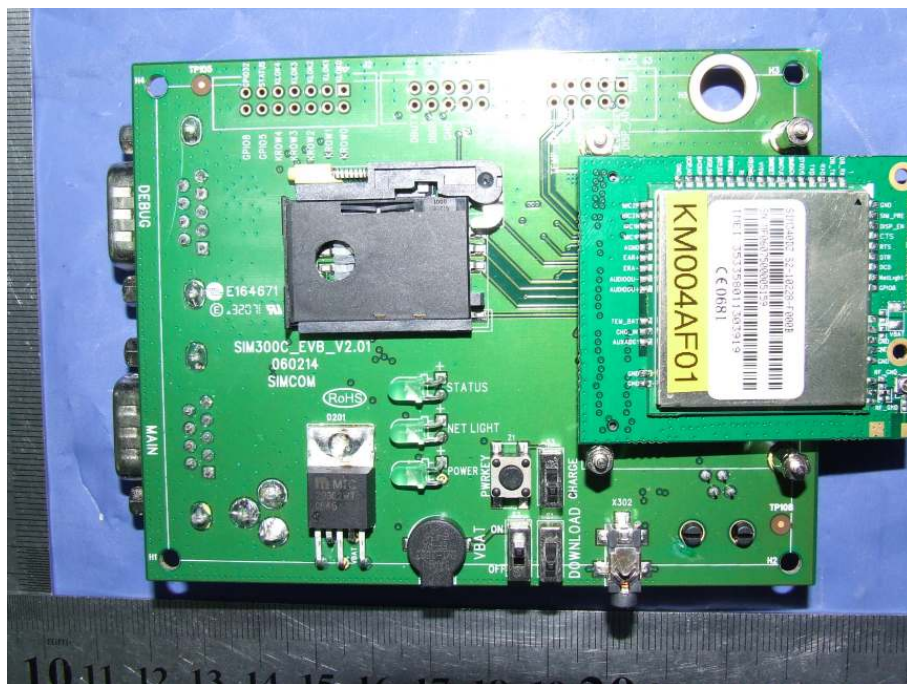
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