

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

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FCC TEST REPORT(DOC)

Application No.: SHEMO060600005IT

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.: C64a

Marketing Name: OT-E801a

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: 5 June 2006

Date of Test: 10 June 2006 to 25 September 2006

Date of Issue: 25 September 2006

Test Result :

PASS

Authorized Signature:



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



Jacky Cao
E&E Project 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.: C64a
Marketing Name: OT-E801a
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: 3DS11022AAAA
Input :100-240 Vac, 50/60 Hz, 0.15 A, Class II ;
Output: 5.0 VDC, 0.5 A)
Manufactures: Leader

Power Cord01: 2.0m

Power Supply02: AC to DC charger (Model NO: 3DS11022ABAA
Input :100-240 Vac, 50/60 Hz, 0.15 A, Class II ;
Output: 5.0 VDC, 0.5 A)
Manufactures: Leader

Power Cord02: 2.0m

Power Supply03: AC to DC charger (Model NO: 3DS11022AGAA
Input :100-240 Vac, 50/60 Hz, 0.15 A, Class II ;
Output: 5.0 VDC, 0.5 A)
Manufactures: Leader

Power Cord03: 2.0m

Power Supply04: AC to DC charger (Model NO: 3DS11022AHAA
Input :100-240 Vac, 50/60 Hz, 0.15 A, Class II ;
Output: 5.0 VDC, 0.5 A)
Manufactures: Leader

Power Cord04: 2.0m

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Power Supply05: AC to DC charger (Model NO: T5000436AGAA
Input :100-240 Vac, 50/60 Hz, 0.15 A,
Output: 5.0 VDC, 0.4 A)
Manufactures: Tenpao

Power Cord05: 2.0m

Power Supply06: AC to DC charger (Model NO: T5000436AHAA
Input :100-240 Vac, 50/60 Hz, 0.15 A,
Output: 5.0 VDC, 0.4 A)
Manufactures: Tenpao

Power Cord06: 2.0m

Cigar lighter charger DC charger (Model NO:3DS11023 AAAA
Input: 12 - 24VDC, 0,3 A)

Data cable Model NO: T5000200AAAA
Manufacturers: Quancheng

Headset Model NO: T5000324AAAA
Manufacturers: Quancheng

Battery DC 3.7V / 650mAh
modle: 3DS11080AAAA
Manufacturers: BYD

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:

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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4.6 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

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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5 Equipments Used during Test

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	HORN ANTENNA	R&S	HF 906	100023	2006-06-17	2007-06-16
2	BROADBAND ANTENNA	R&S	HL 562	100019	2006-06-17	2007-06-16
3	EMI TEST RECEIVER	R&S	ESI 26	838786/011	2006-03-06	2007-03-05
4	UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	100536	2006-01-25	2007-01-24

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2006-6-29	2007-6-28
2	Line impedance stabilization network	ETS	3816/2	00034161	2006-6-29	2007-6-28

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due 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:	September 12, 2006
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

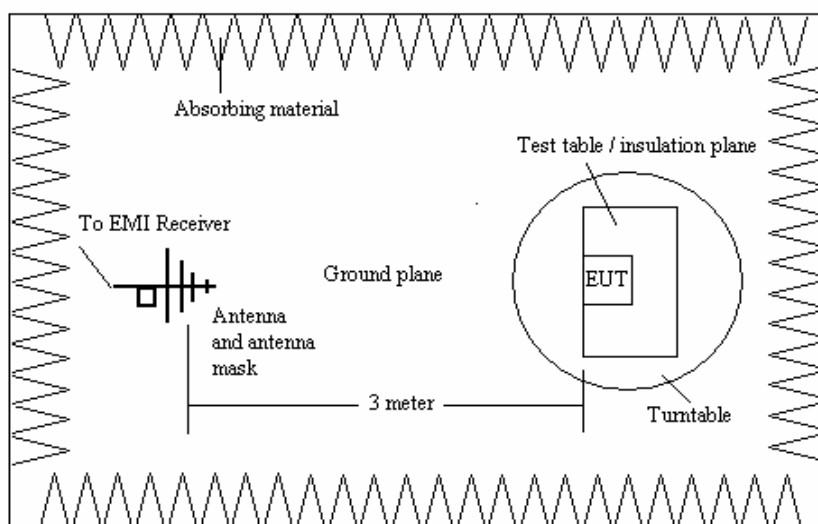
Operating Environment:

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

EUT Operation: EUT allocated channel mode GSM850&PCS 1900 with charger and data cable.

And we just choose the worst case for the report

6.1.2 Test setup:



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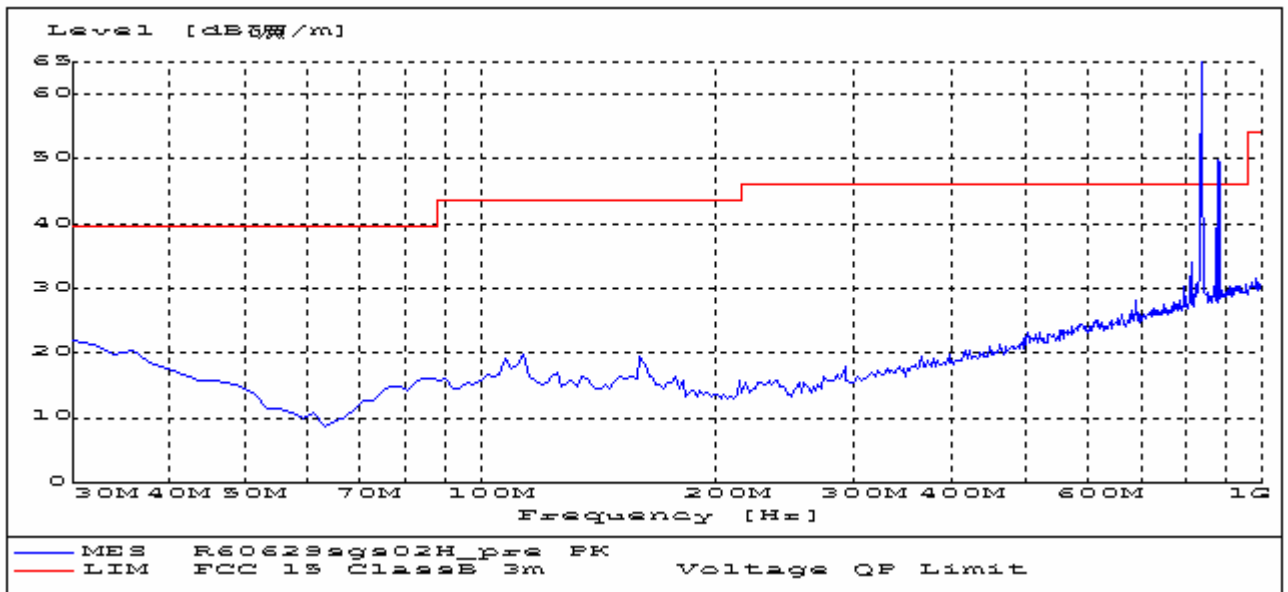
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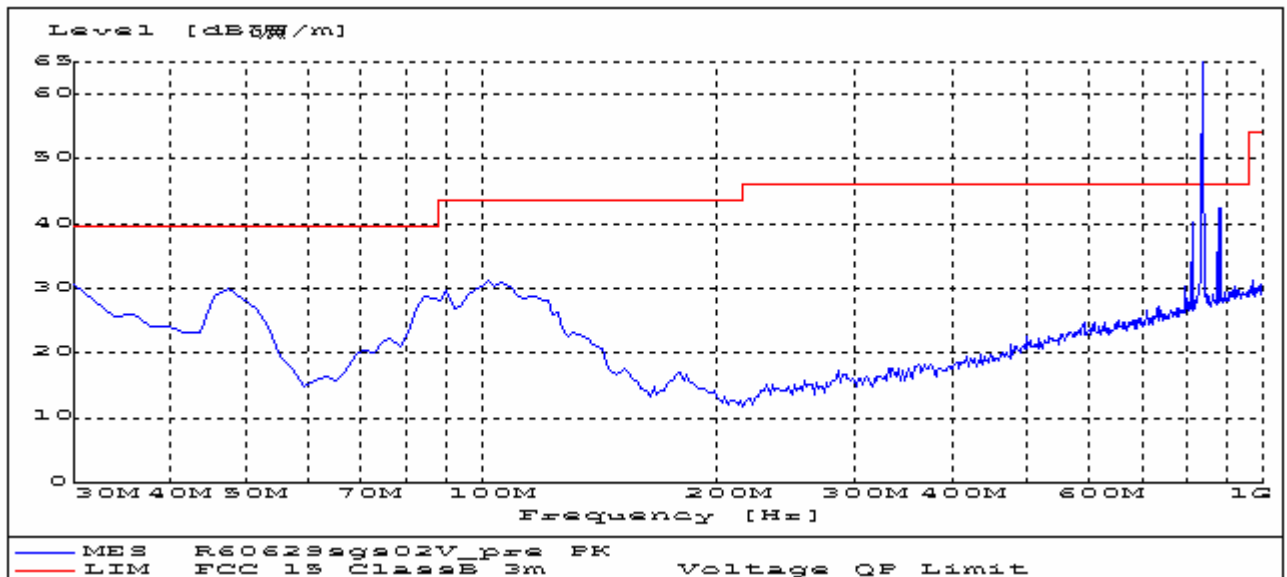
6.1.3 Test Result:

GSM850 dedicated: (test with the adapter of power supply 01)

Horizontal:



Vertical:



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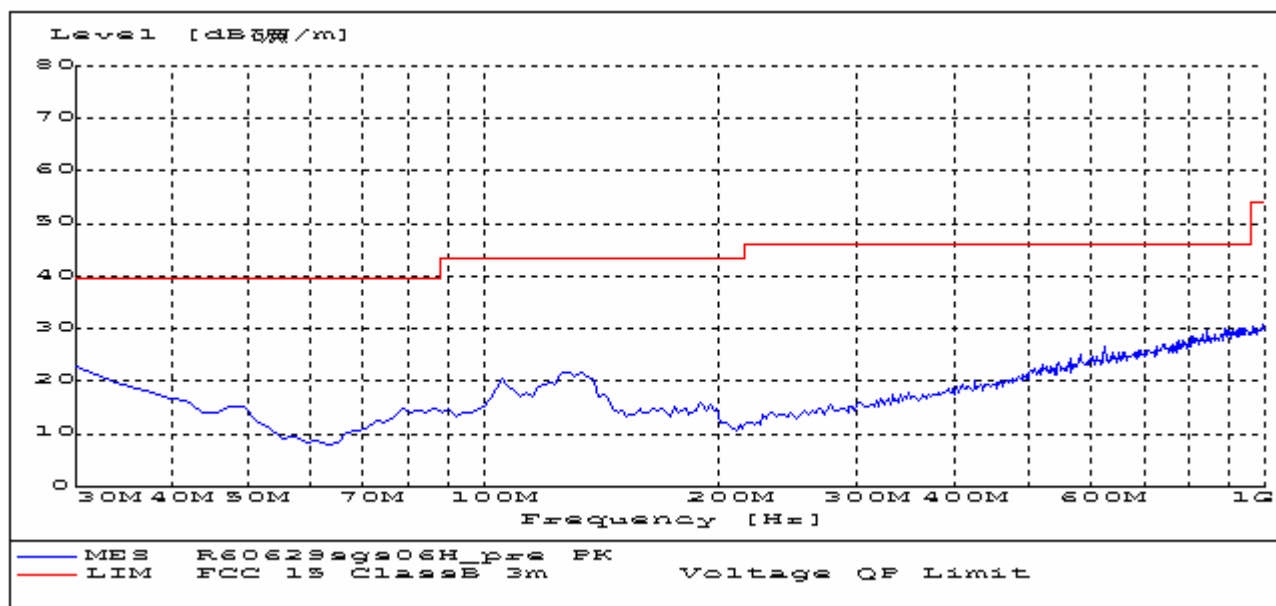
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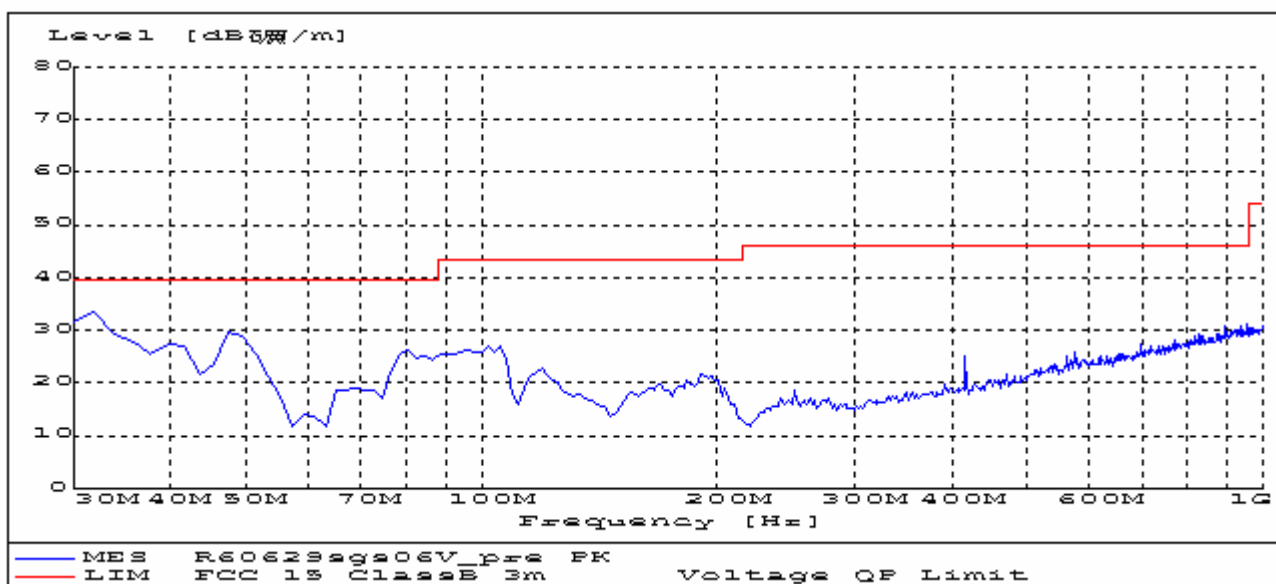
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GSM1900 dedicated: (test with the adapter of power supply 01)

Horizontal:



Vertical:



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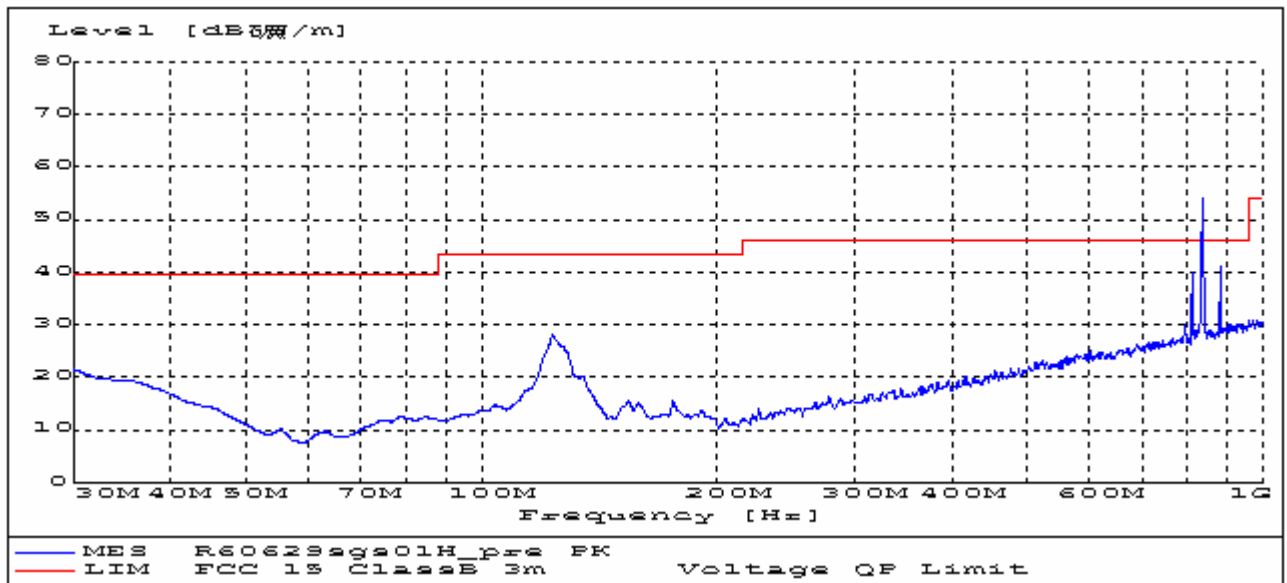
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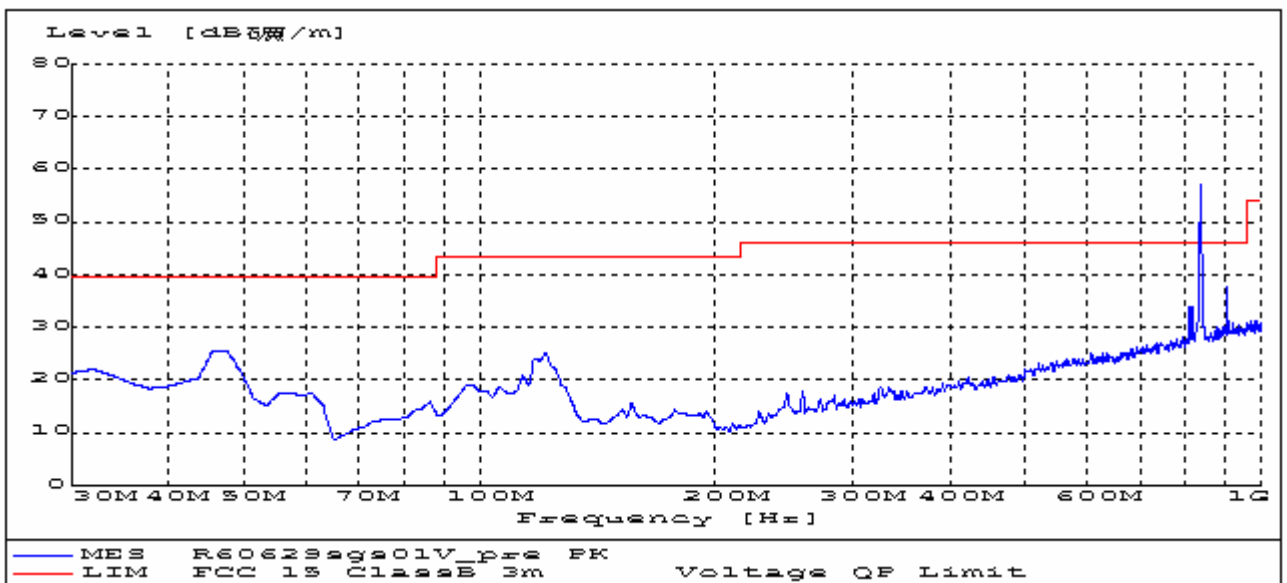
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GSM850 dedicated: (test with the adapter of power supply 02)

Horizontal:



Vertical:



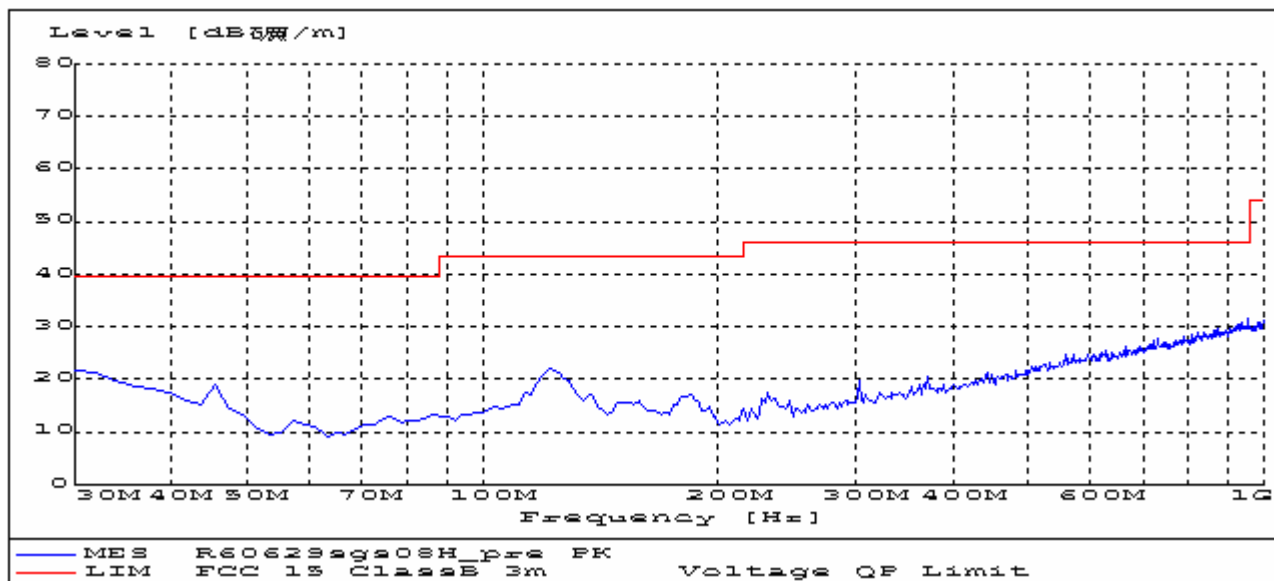
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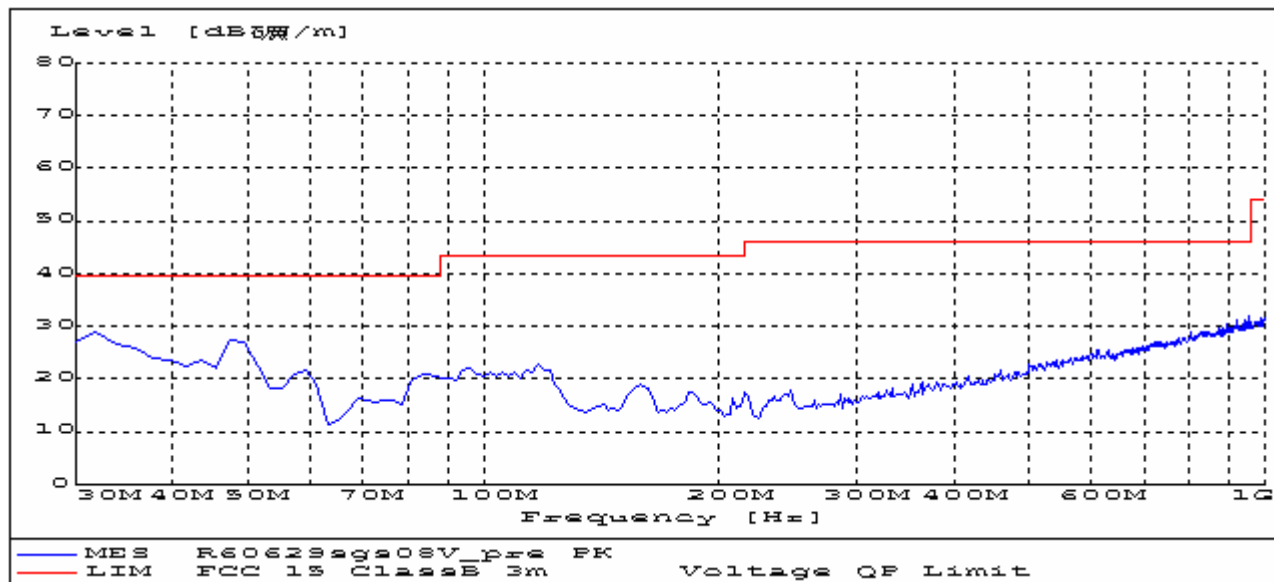
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GSM1900 dedicated: (test with the adapter of power supply 02)



Vertical:



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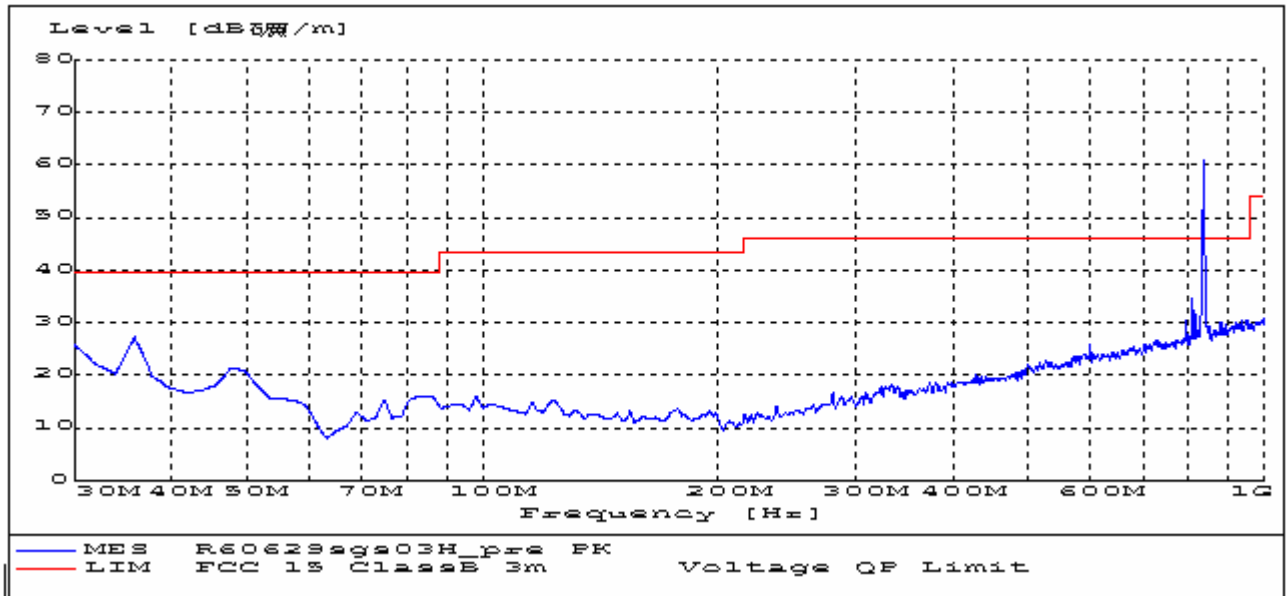
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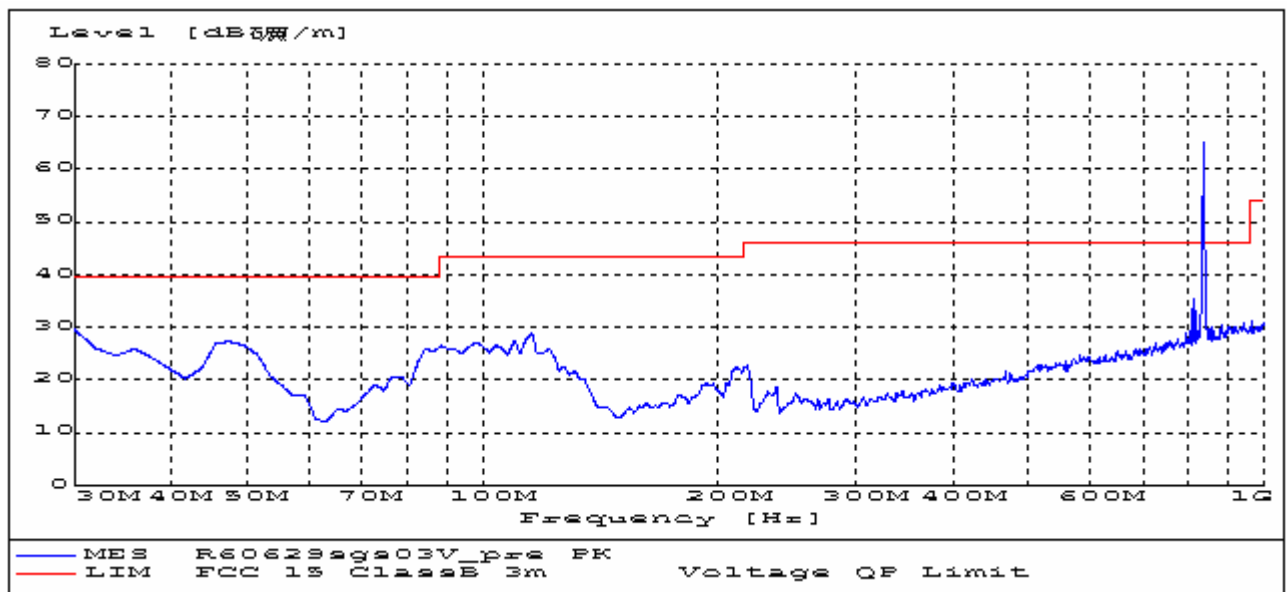
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GSM850 dedicated: (test with the adapter of power supply 03)

Horizontal:



Vertical:



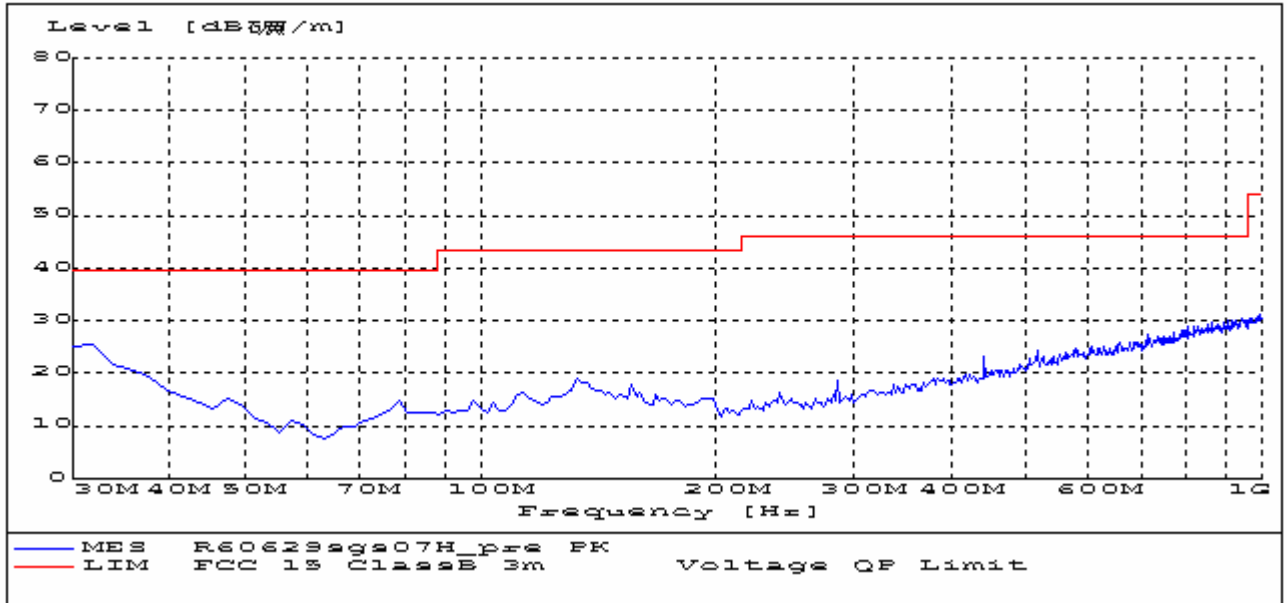
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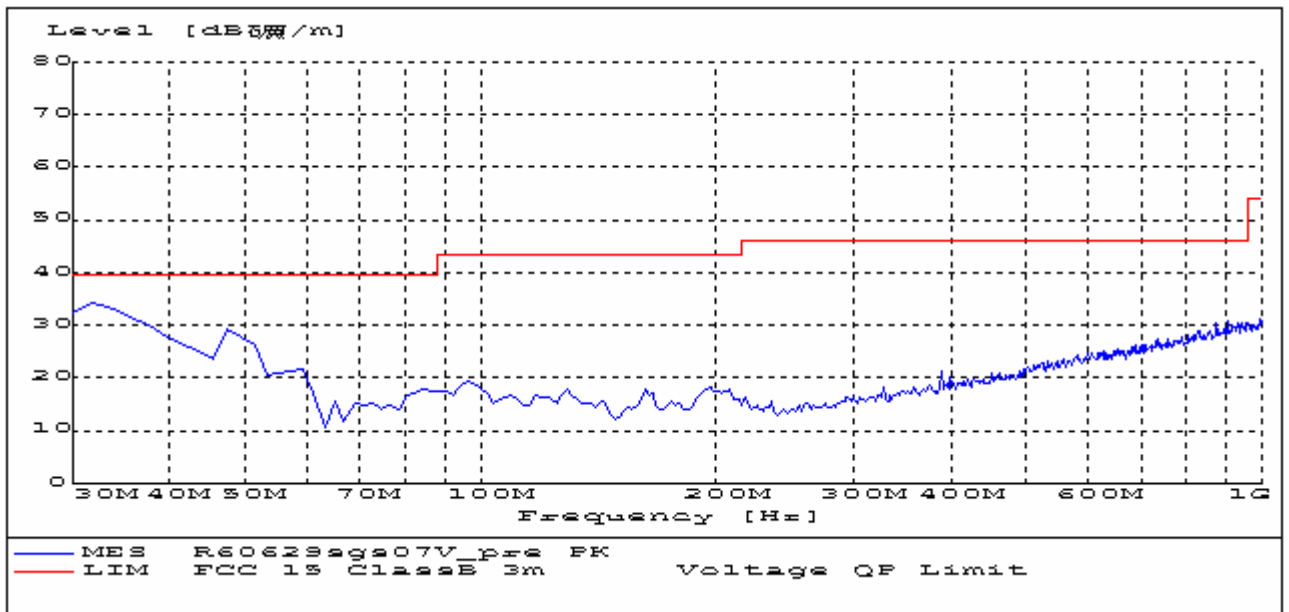
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GSM1900 dedicated: (test with the adapter of power supply 03)



Vertical:



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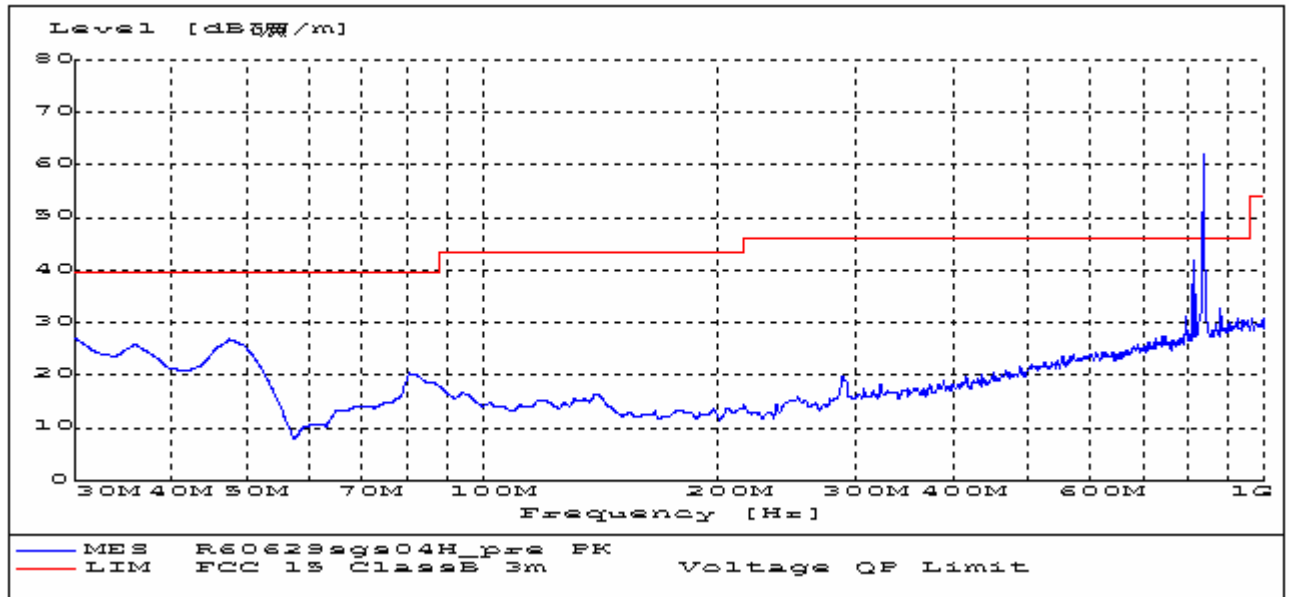
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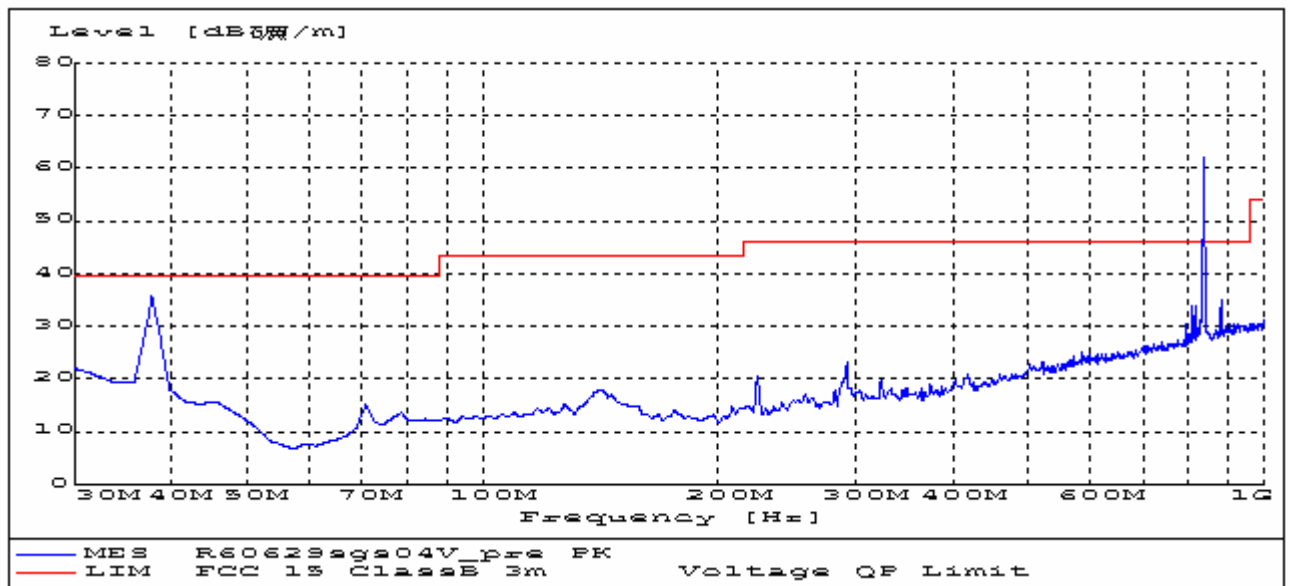
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GSM850 dedicated: (test with the adapter of power supply 04)

Horizontal:



Vertical:



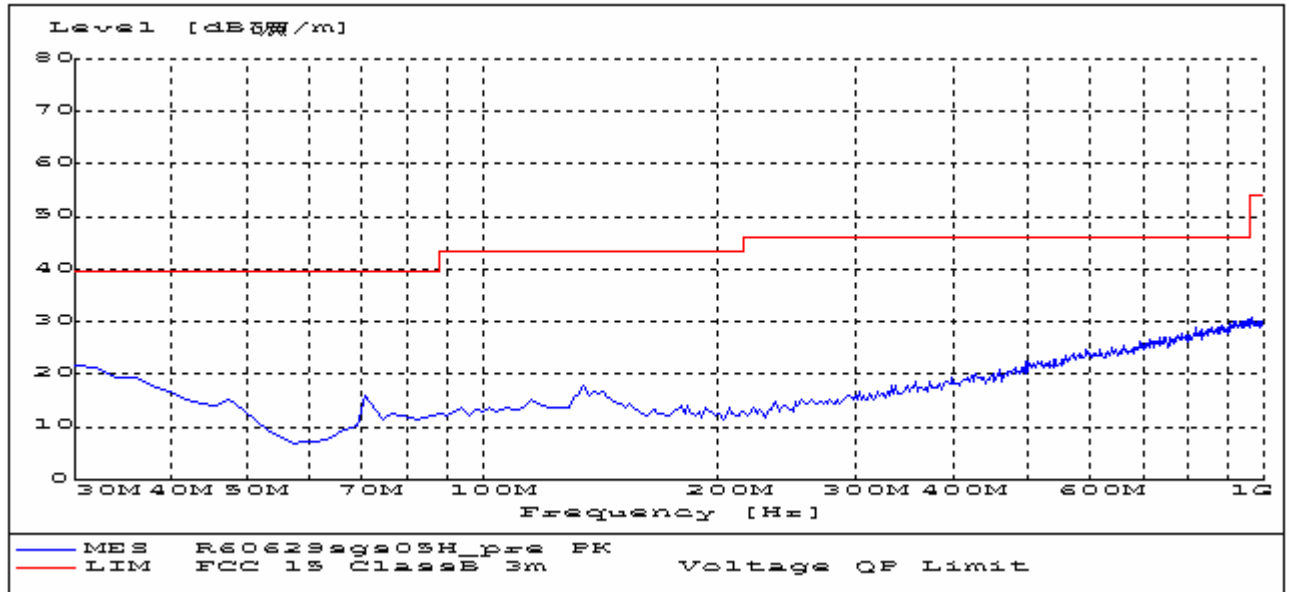
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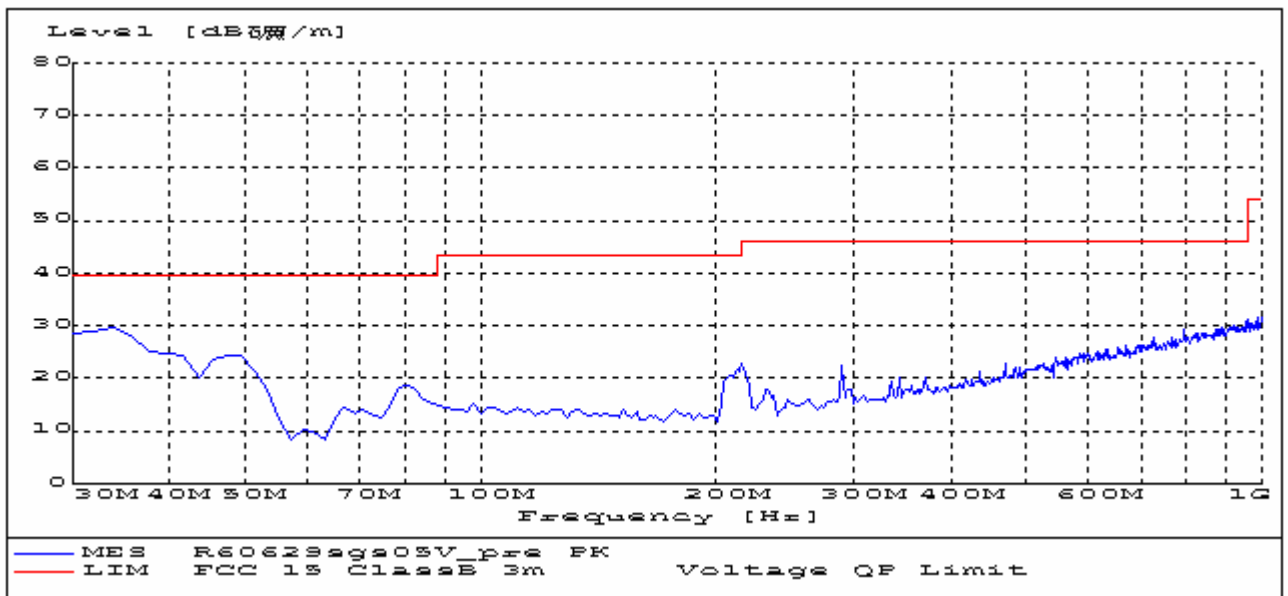
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GSM1900 dedicated: (test with the adapter of power supply 04)



Vertical:



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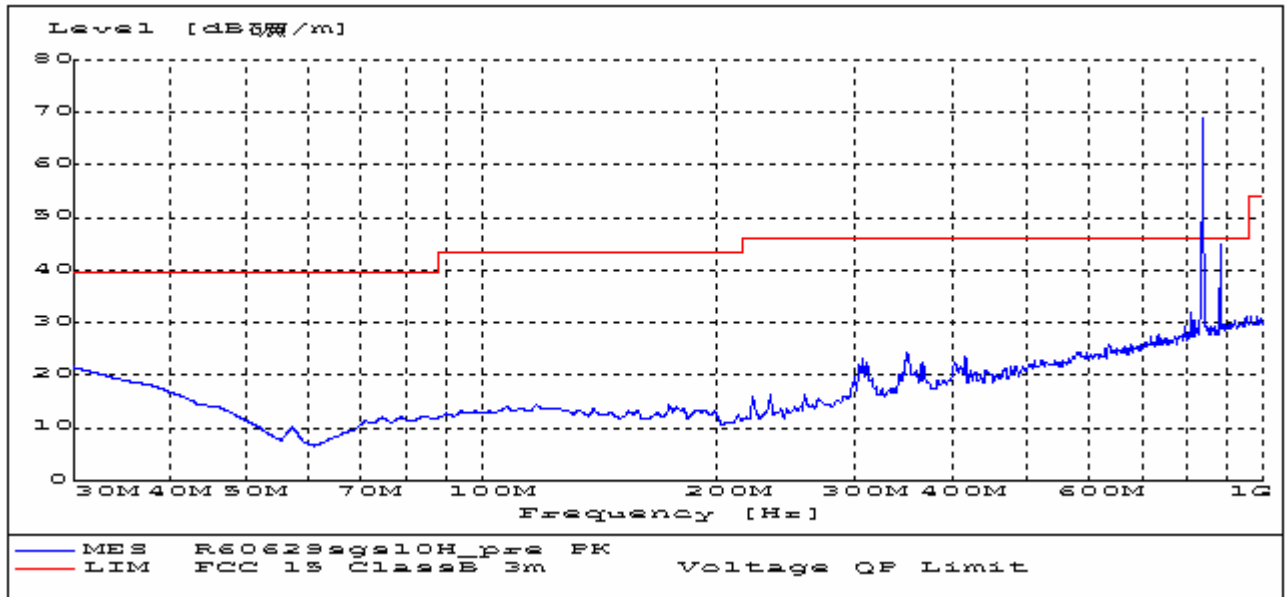
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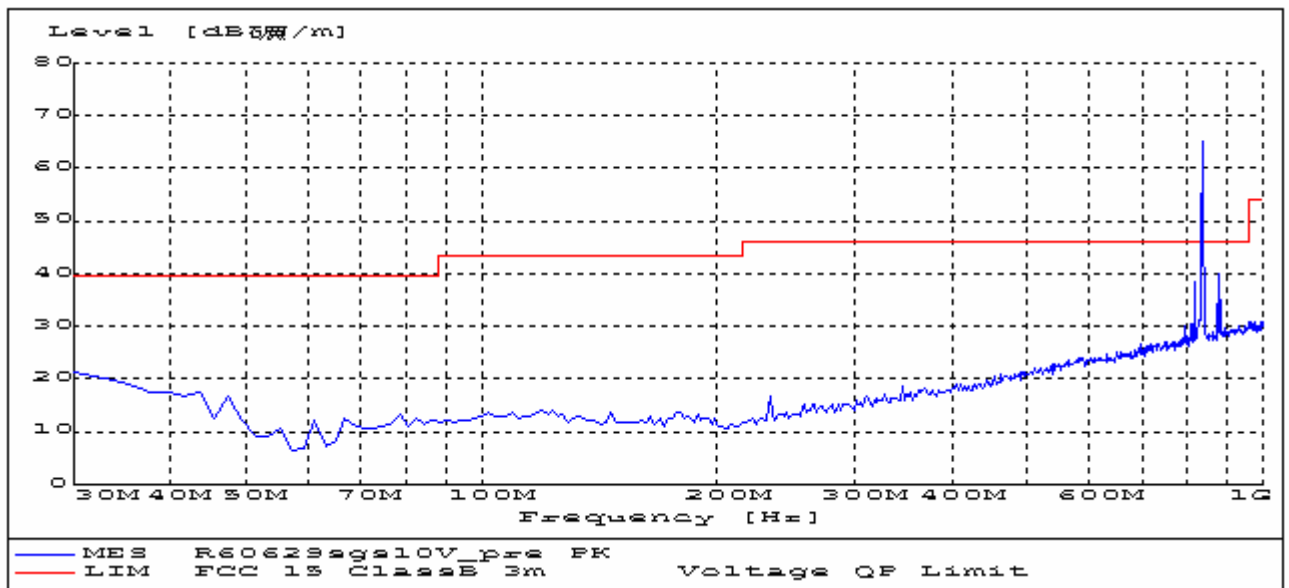
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GSM850 dedicated: (test with the Cigar lighter charger)

Horizontal:



Vertical:



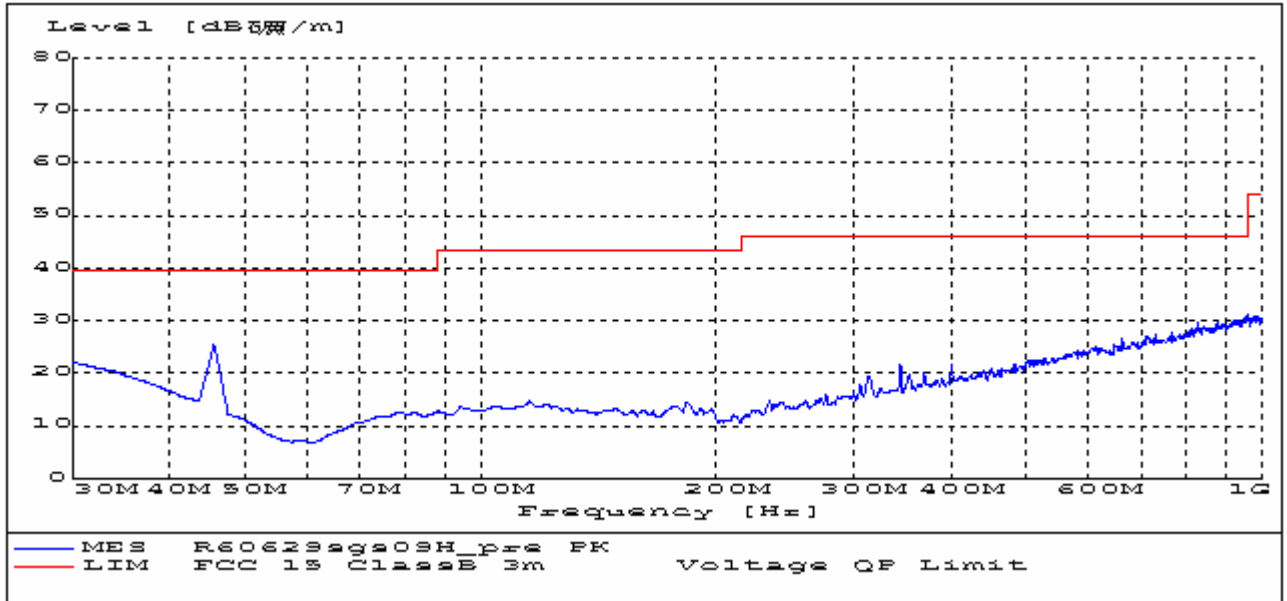
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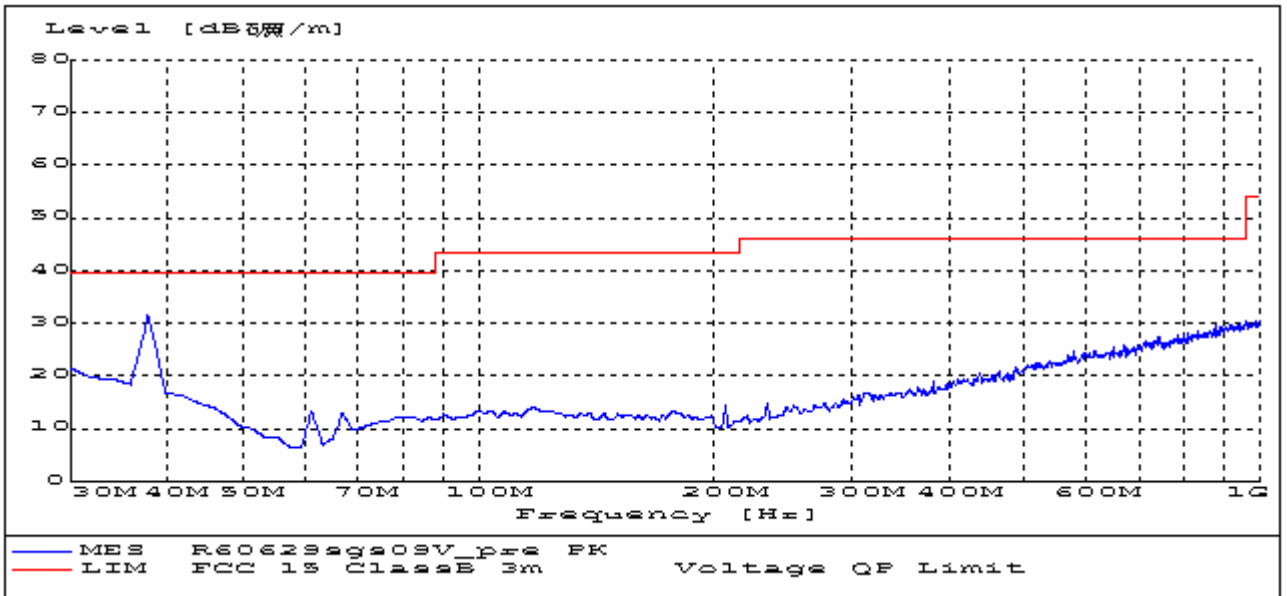
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GSM1900 dedicated: (test with the Cigar lighter charger)



Vertical:



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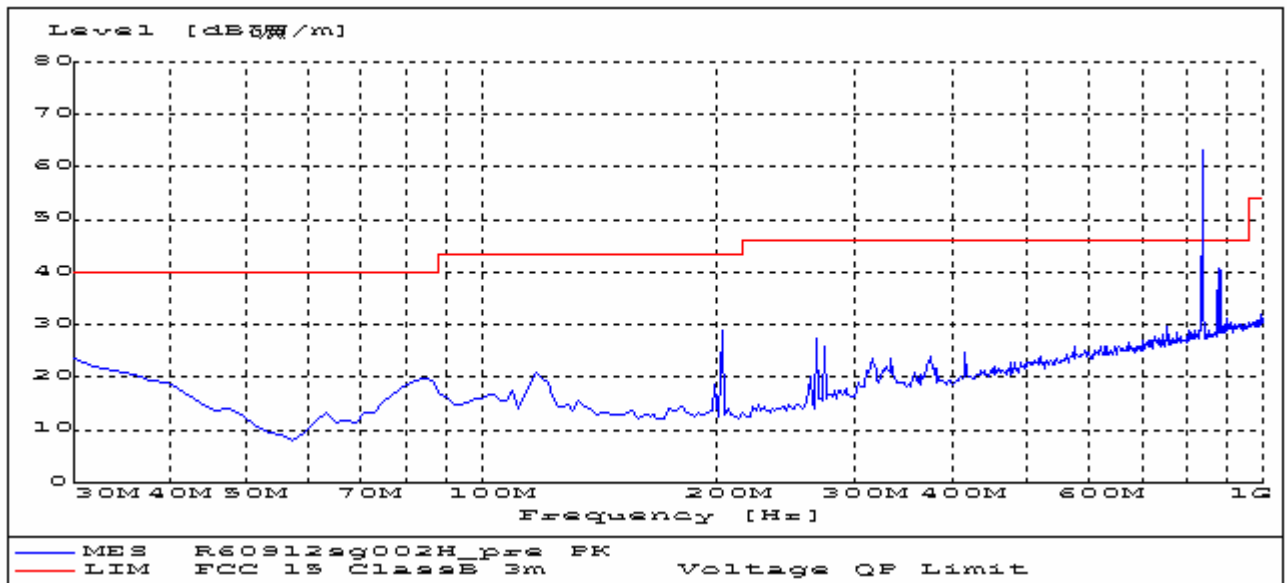
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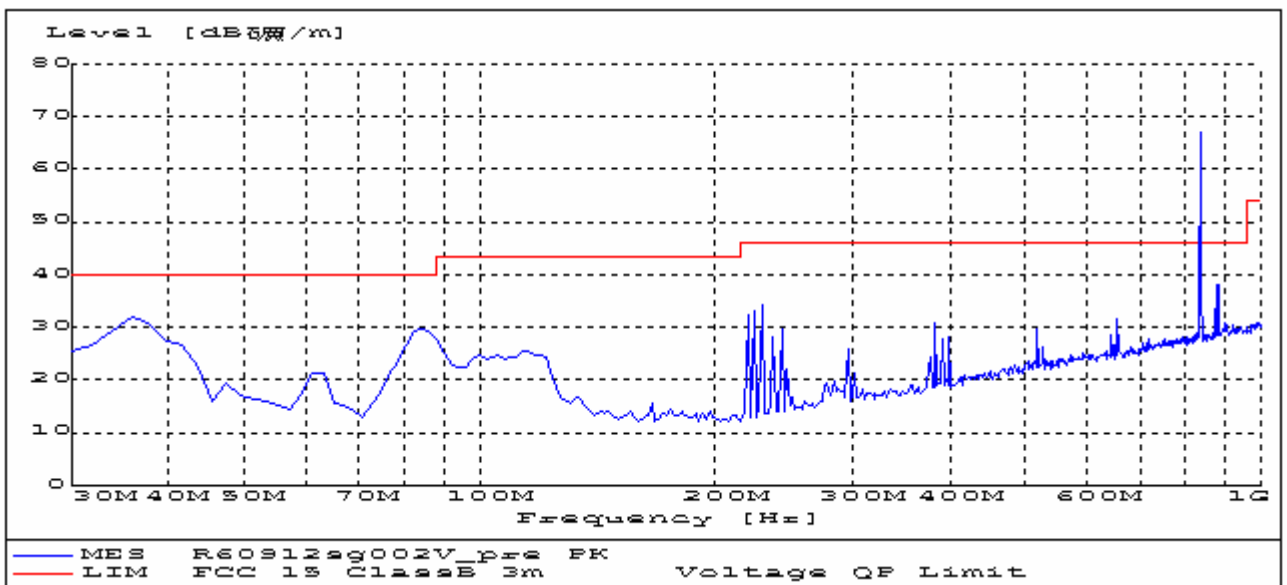
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GSM850 dedicated: (test with the adapter of power supply 05)

Horizontal:



Vertical:



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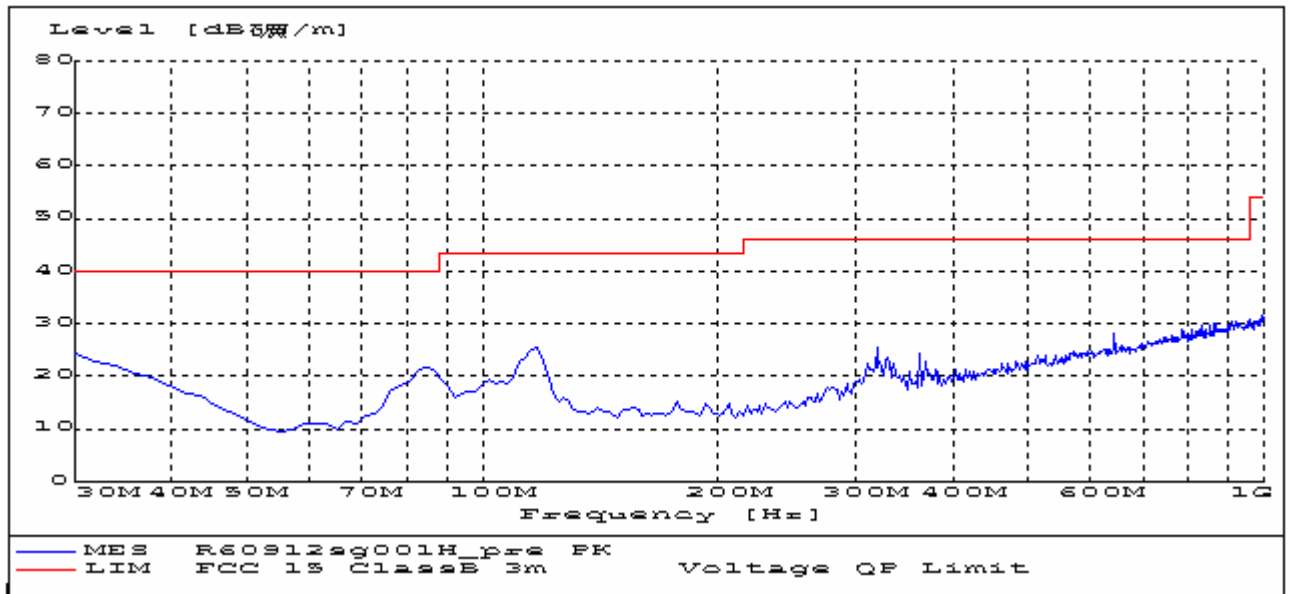
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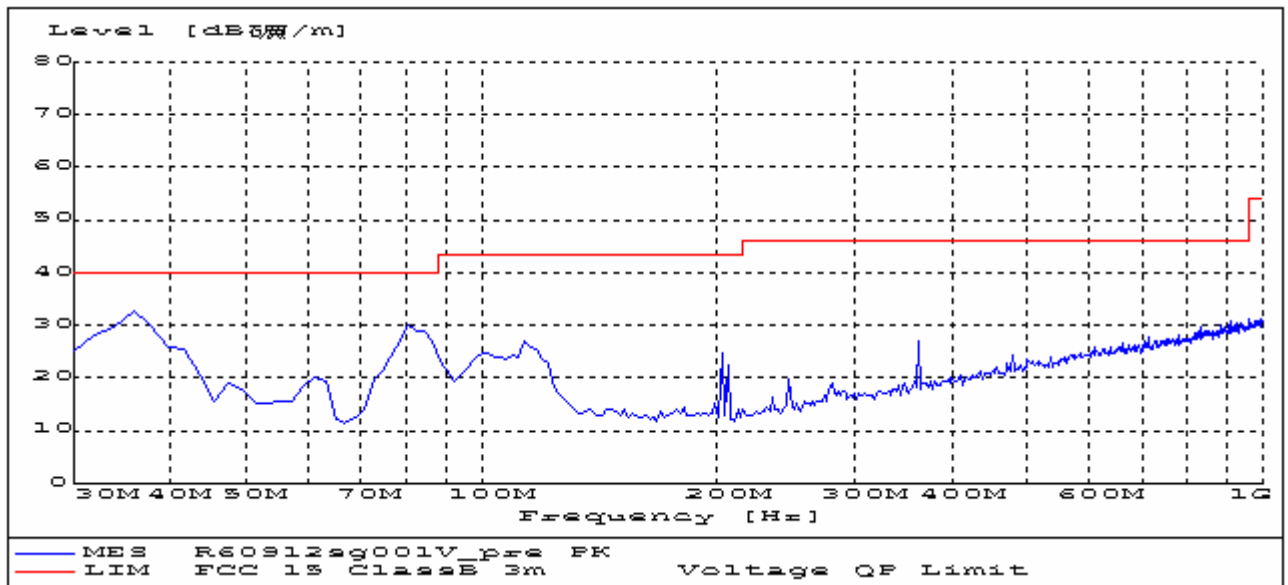
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GSM1900 dedicated: (test with the adapter of power supply 05)

Horizontal:



Vertical:



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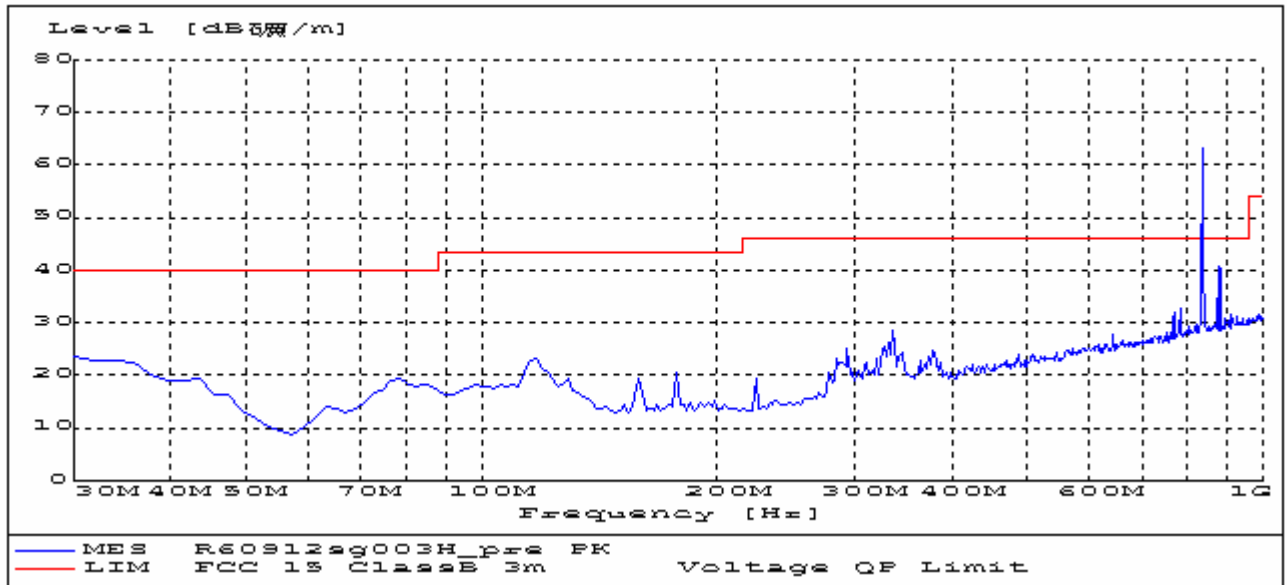
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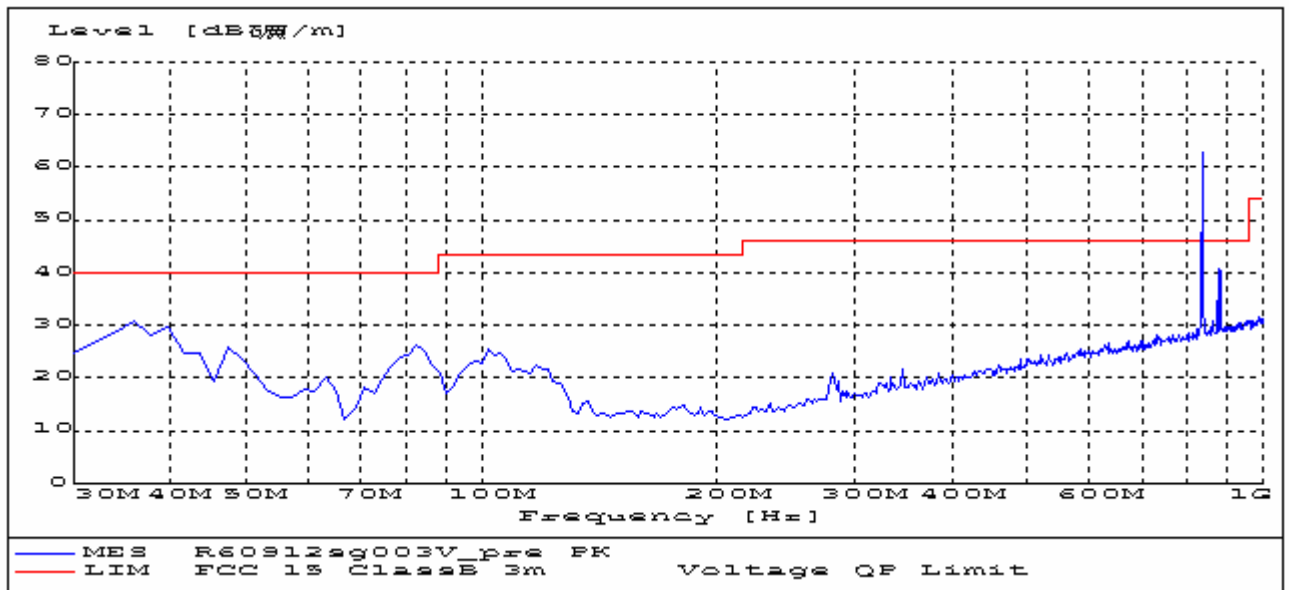
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GSM850 dedicated: (test with the adapter of power supply 06)

Horizontal:



Vertical:



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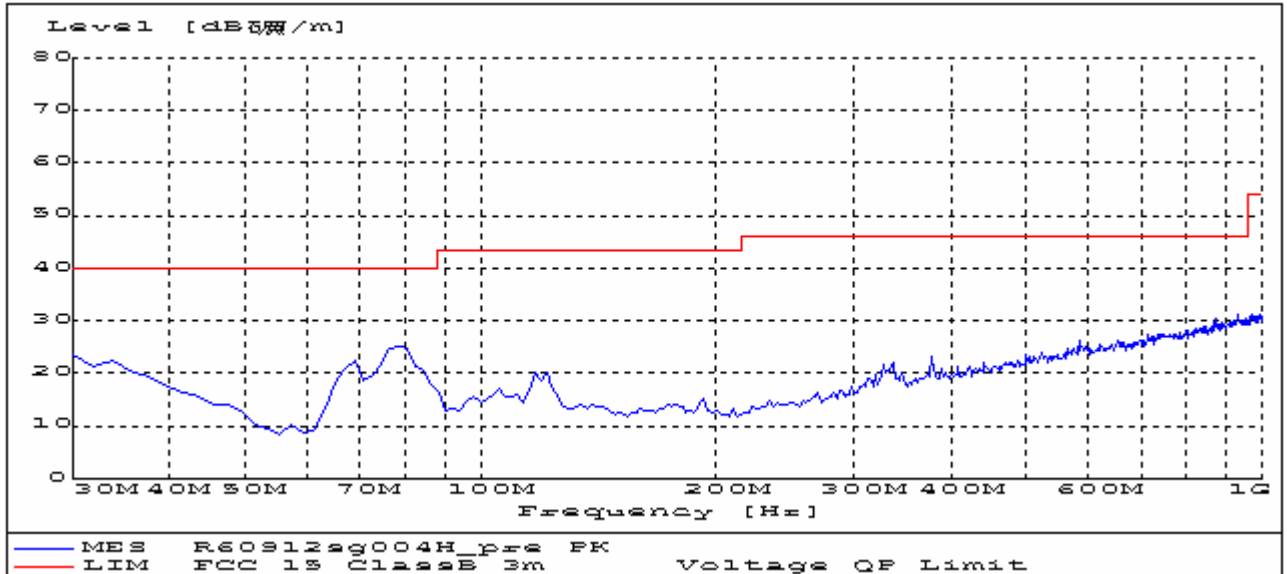
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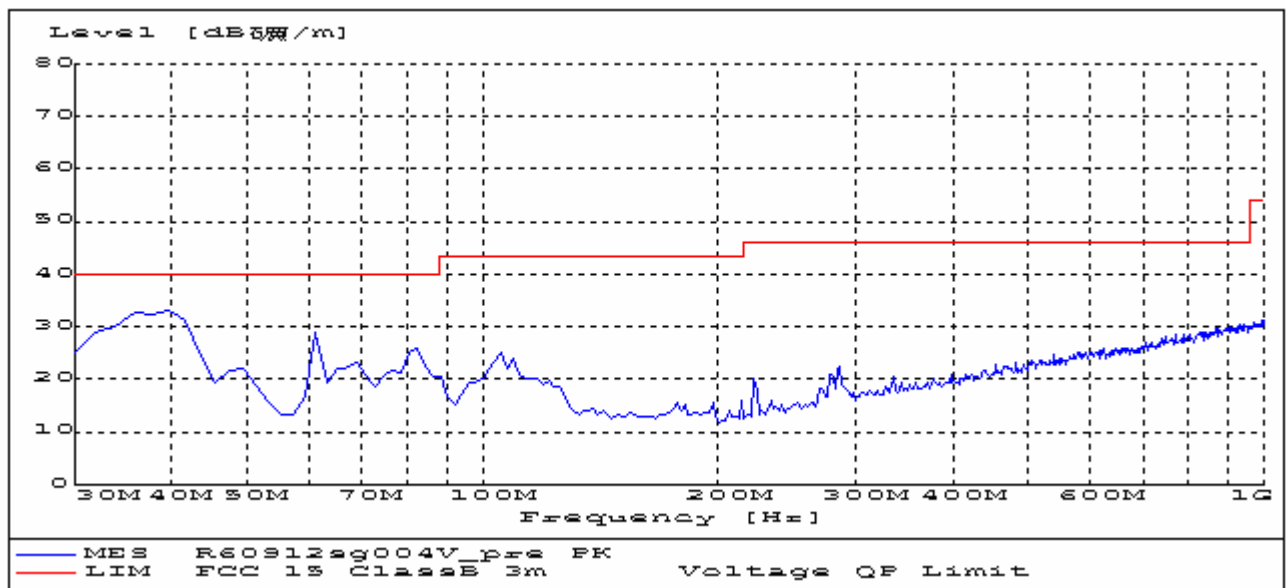
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GSM1900 dedicated: (test with the adapter of power supply 06)

Horizontal:



Vertical:



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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	25 September 2006
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:

EUT Operation: EUT allocated channel mode GSM850&PCS 1900 with charger and data cable. And we just choose the worst case for the report

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.

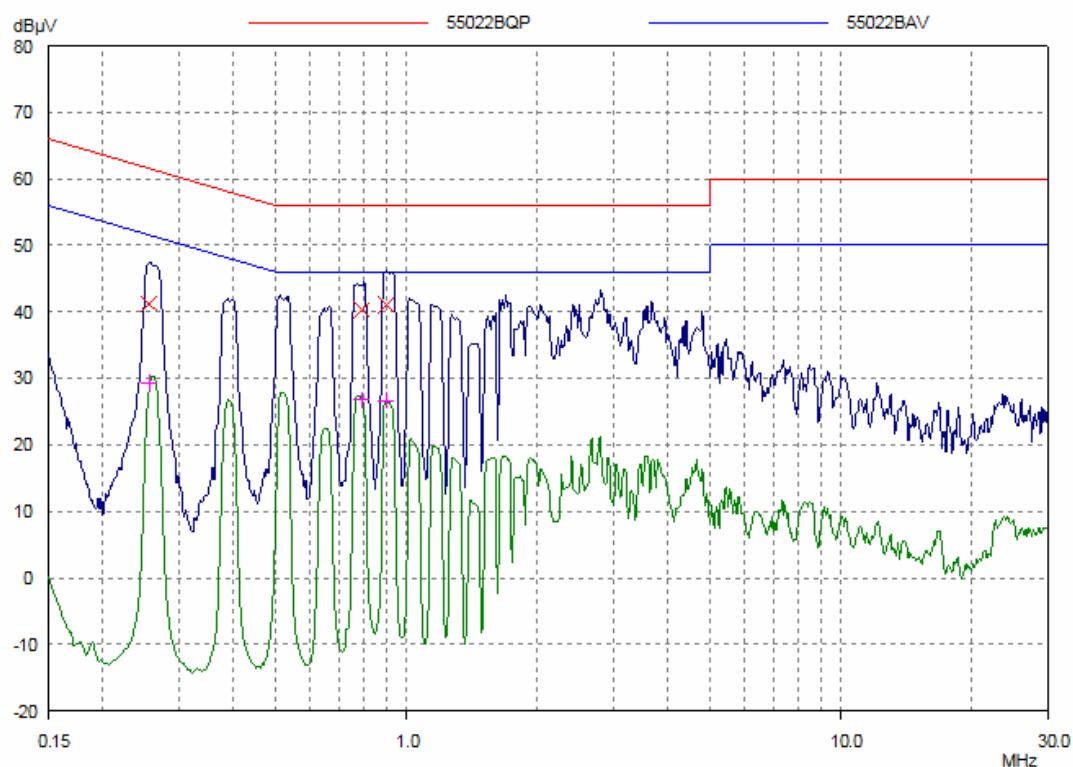
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Power Supply1:
GSM 850 dedicated, charging with adaptor:
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25582	41.16	61.57	20.41
0.78683	40.30	56.00	15.70
0.90097	40.94	56.00	15.06

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25582	29.27	51.57	22.30
0.78683	26.71	46.00	19.29
0.90097	26.67	46.00	19.33

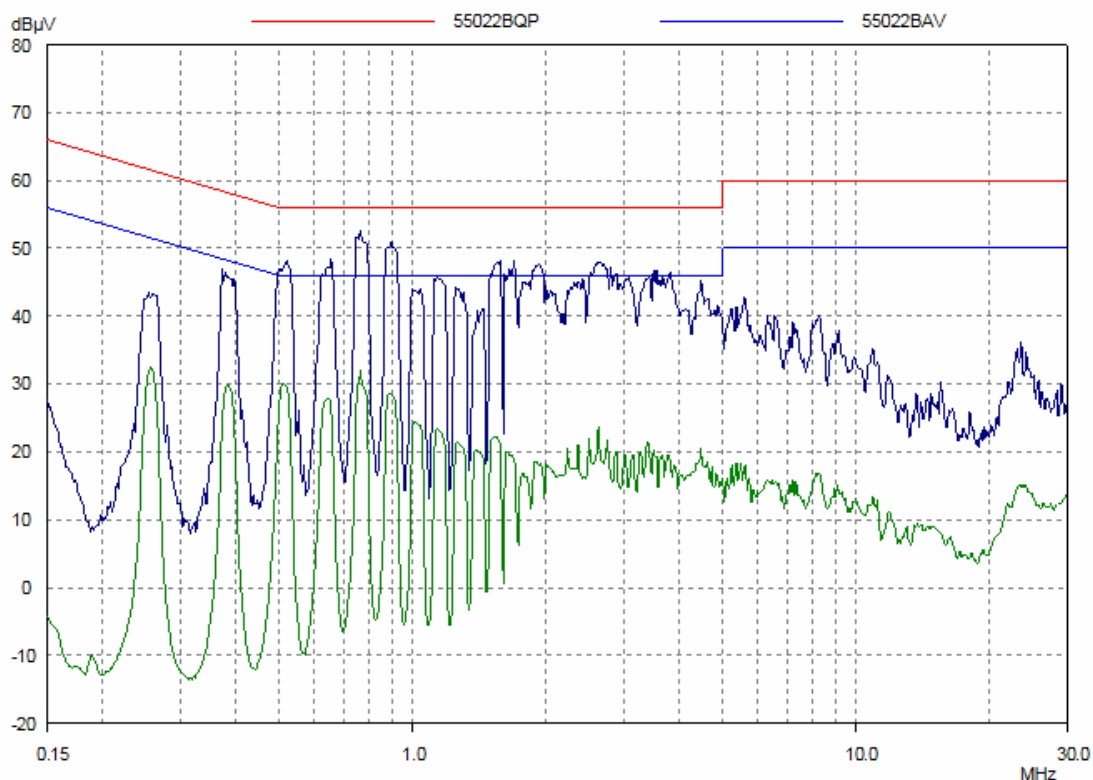
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N Line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

“*” means the emission level is 6dB lower than the relevant limit.

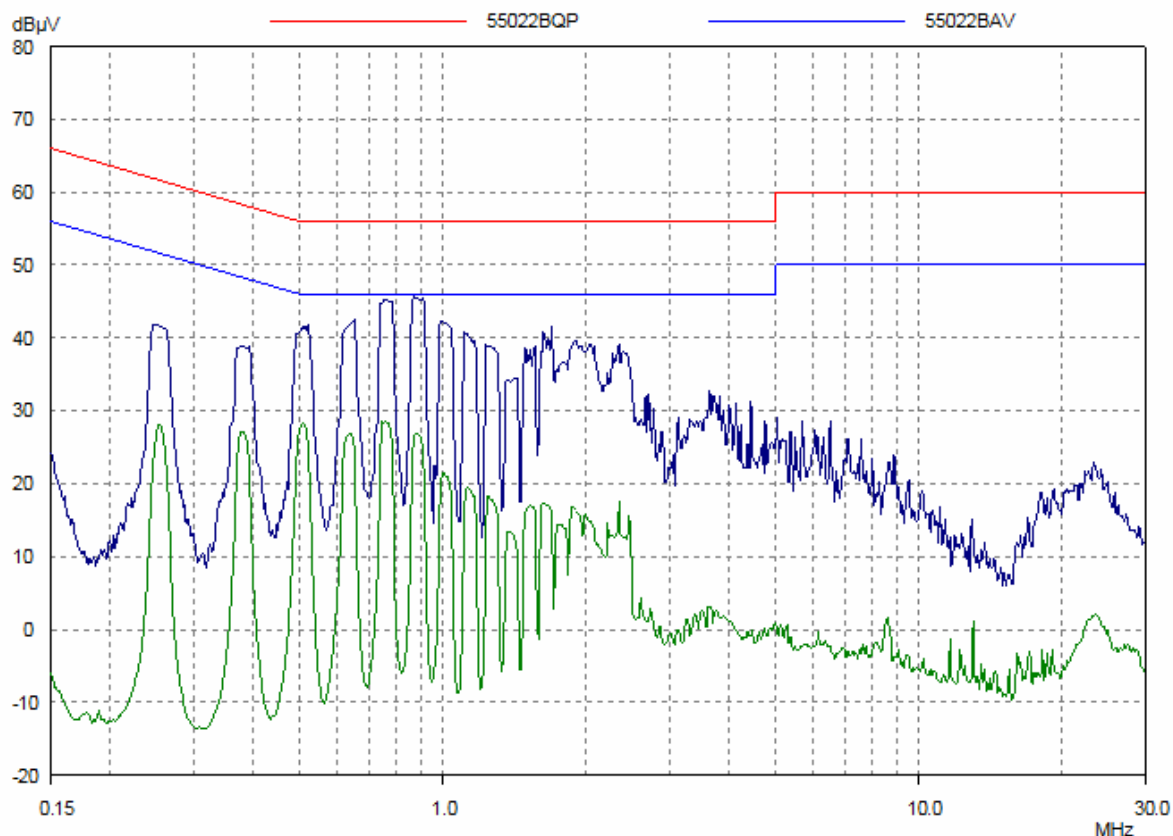
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PCS 1900 dedicated, charging with adaptor:
L Line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

“*” means the emission level is 6dB lower than the relevant limit.

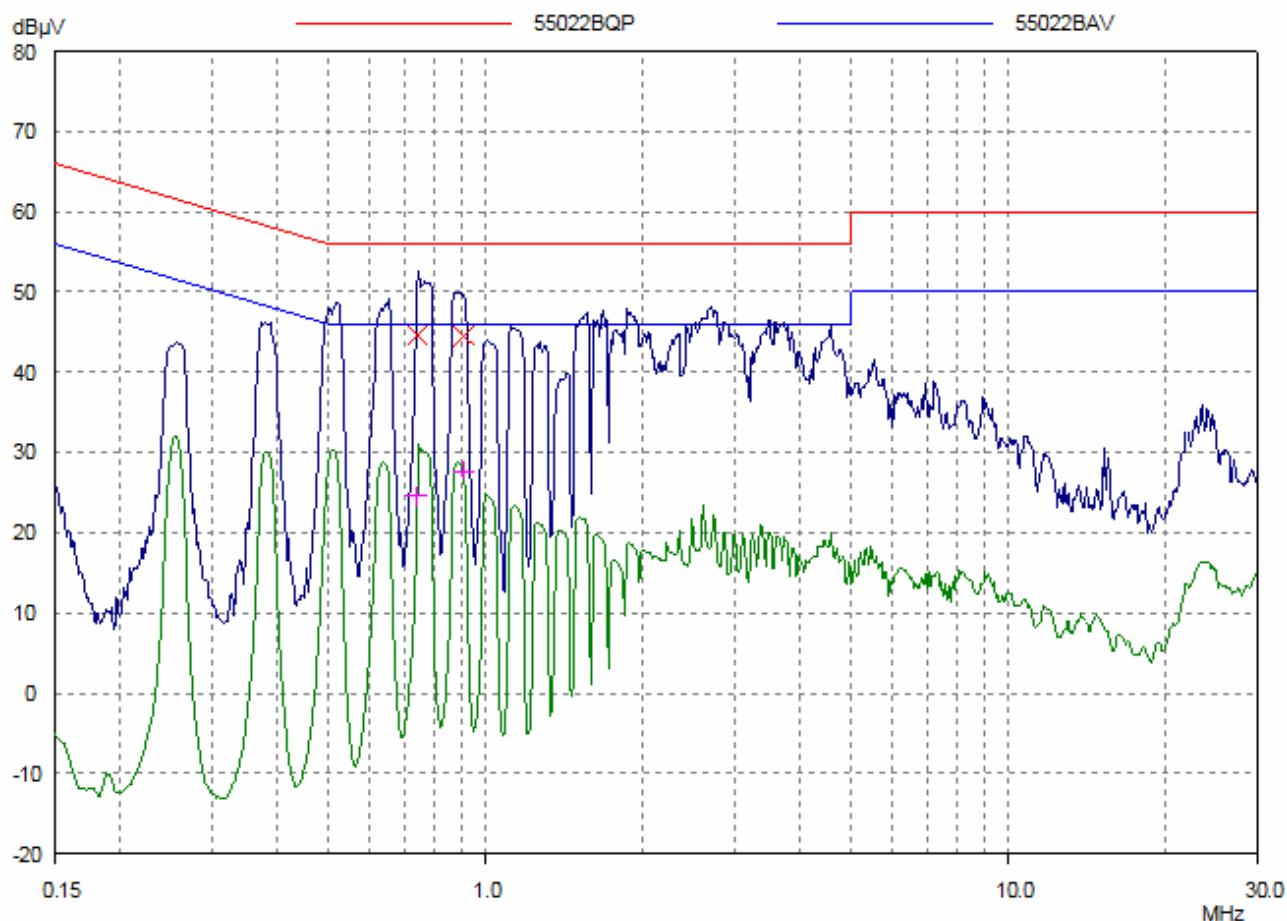
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.73824	44.60	56.00	11.40
0.90817	44.55	56.00	11.45

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.73824	24.58	46.00	21.42
0.90817	27.66	46.00	18.34

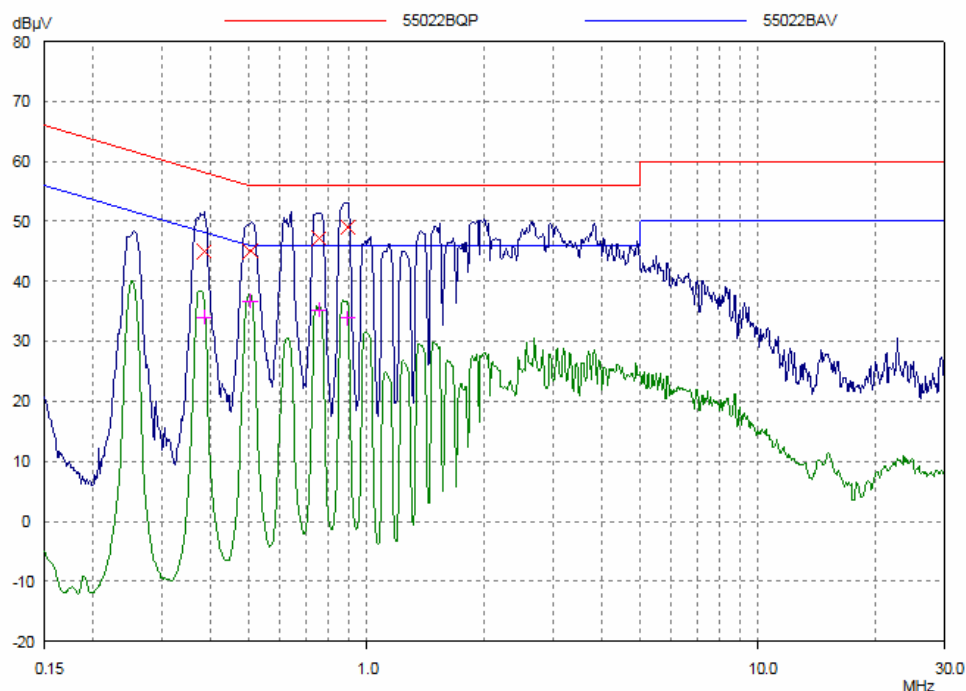
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Power Supply 2:
GSM 850 dedicated, charging with adaptor:
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.38409	44.94	58.19	13.25
0.5036	45.03	56.00	10.97
0.7561	47.24	56.00	8.76
0.89382	48.92	56.00	7.08

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.38409	33.87	48.19	14.32
0.5036	36.61	46.00	9.39
0.7561	35.08	46.00	10.92
0.89382	33.84	46.00	12.16

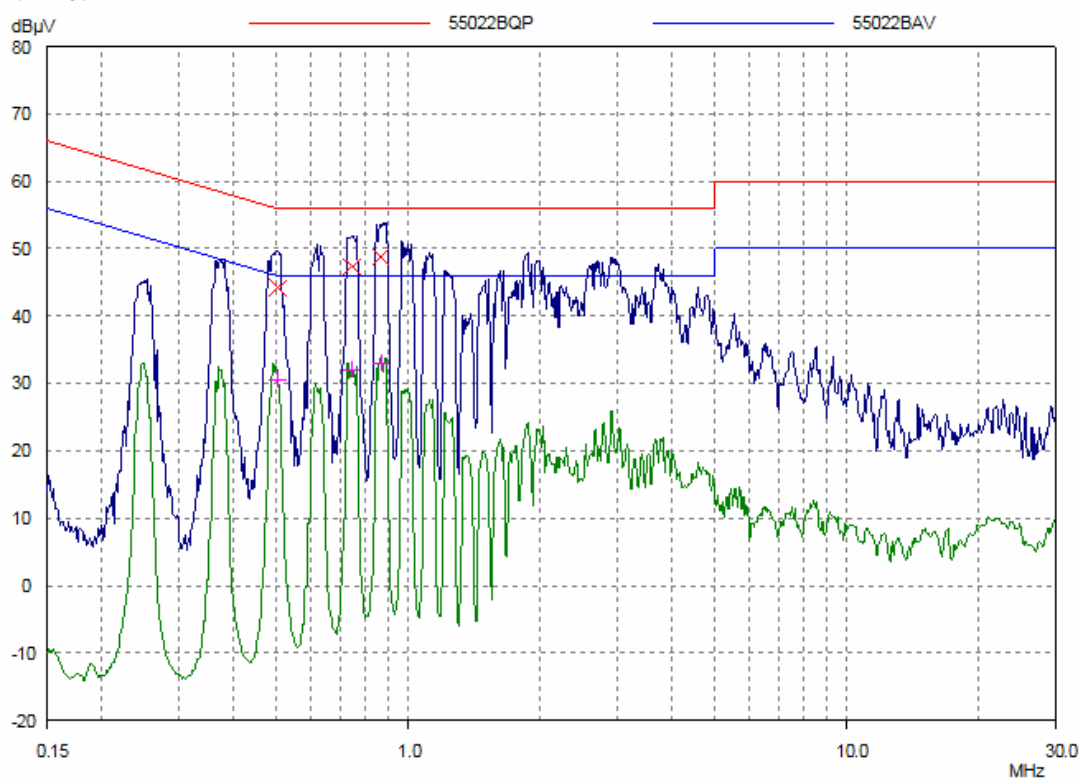
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N line:



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB
0.5036	44.16	56.00	11.84
0.74414	47.27	56.00	8.73
0.86578	48.66	56.00	7.34

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB
0.5036	30.59	46.00	15.41
0.74414	31.96	46.00	14.04
0.86578	32.93	46.00	13.07

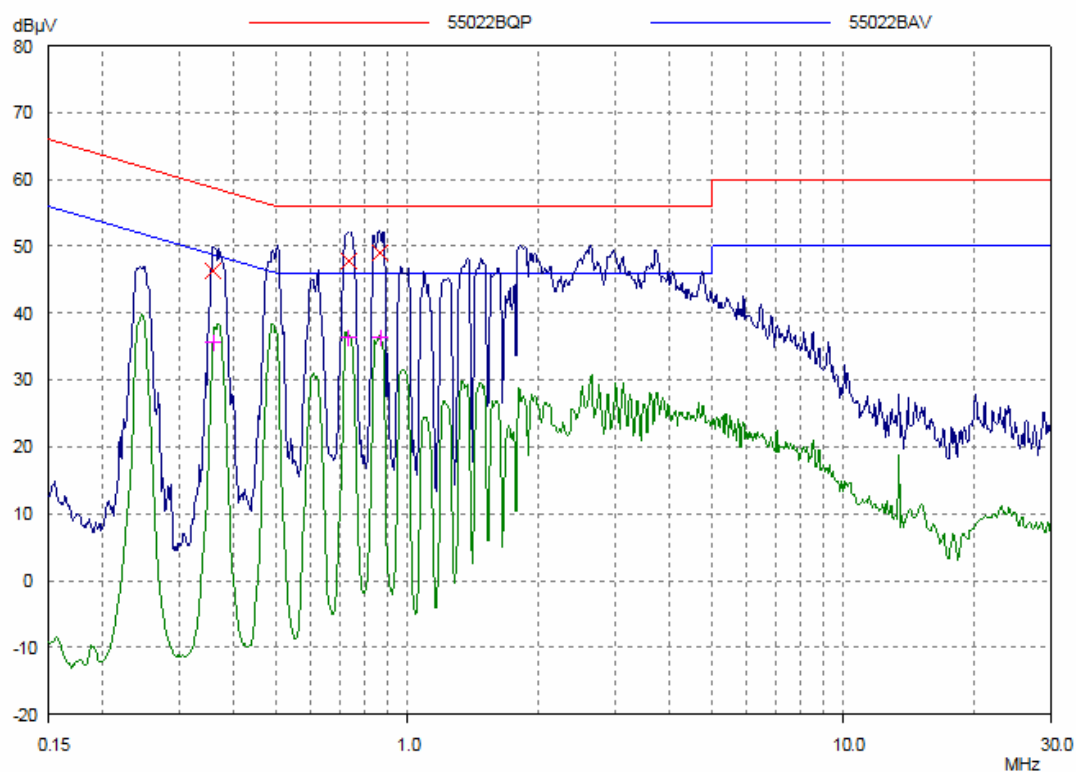
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PCS 1900 dedicated, charging with adaptor:
L Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.35751	46.38	58.79	12.41
0.73238	47.82	56.00	8.18
0.86578	48.92	56.00	7.08

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.35751	35.63	48.79	13.16
0.73238	36.24	46.00	9.76
0.86578	36.34	46.00	9.66

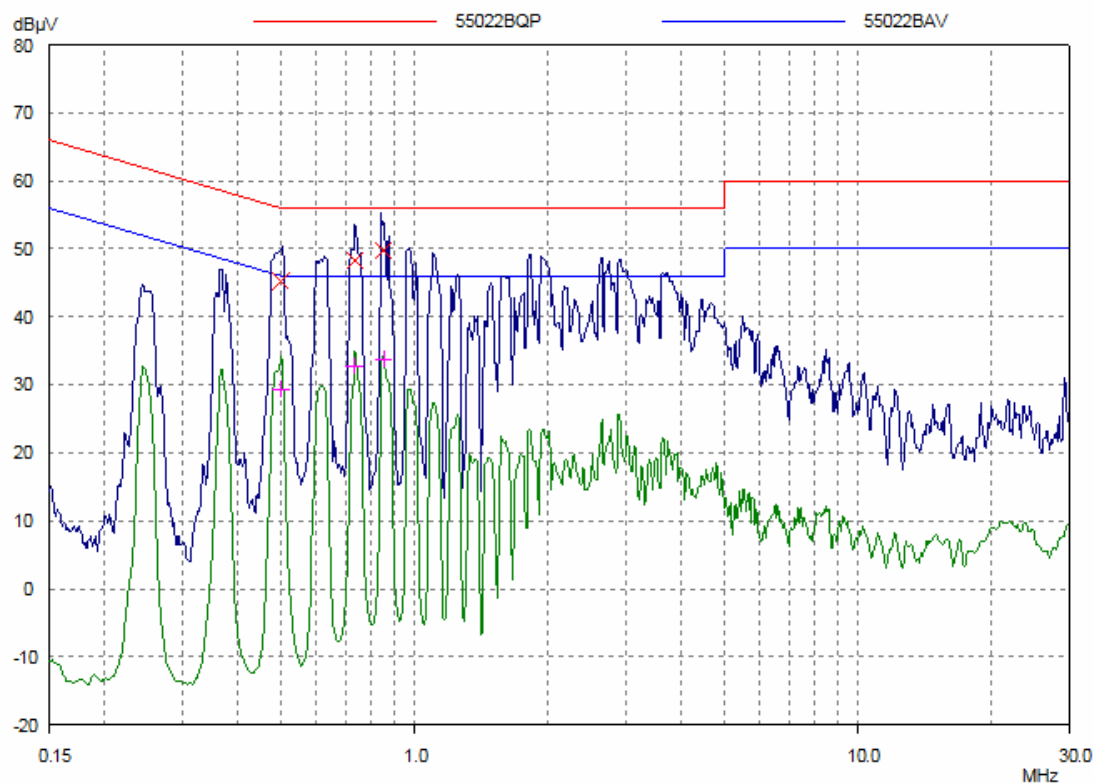
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N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.49961	45.20	56.01	10.81
0.73238	48.22	56.00	7.78
0.85209	49.65	56.00	6.35

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.49961	29.25	46.01	16.76
0.73238	32.68	46.00	13.32
0.85209	33.69	46.00	12.31

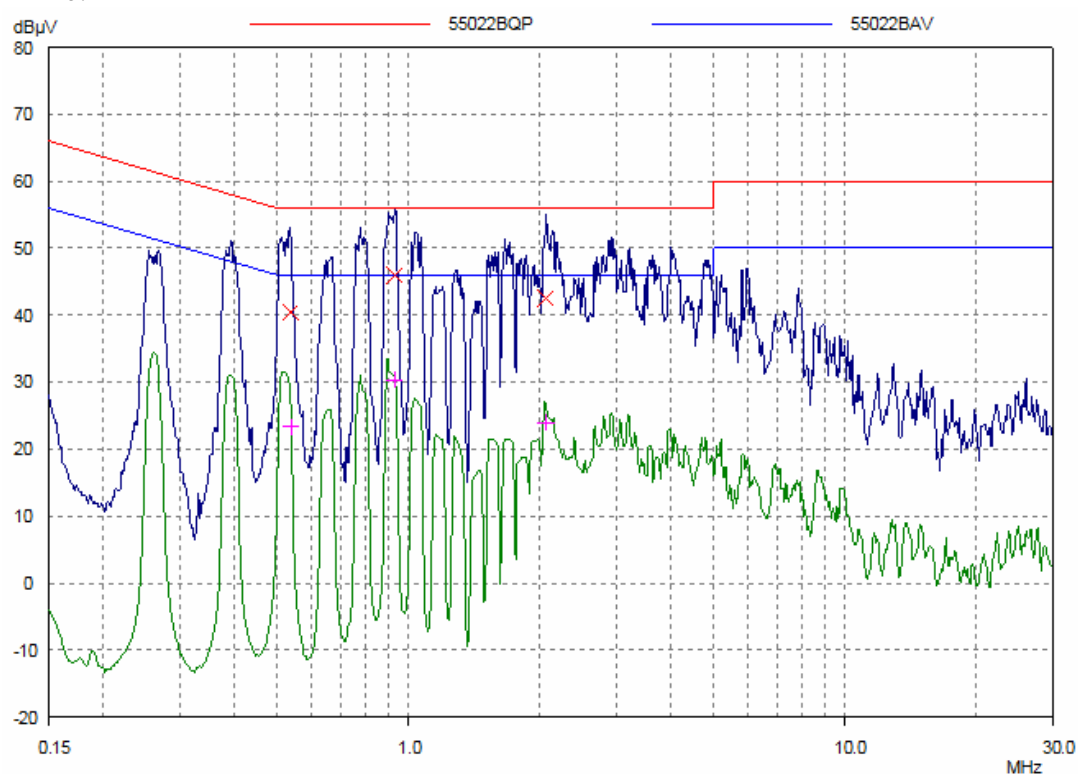
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Power supply 03
GSM850 dedicated, charging with adaptor:
L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.53675	40.32	56.00	15.68
0.93015	45.87	56.00	10.13
2.0635	42.50	56.00	13.50

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.53675	23.30	46.00	22.70
0.93015	30.23	46.00	15.77
2.0635	23.96	46.00	22.04

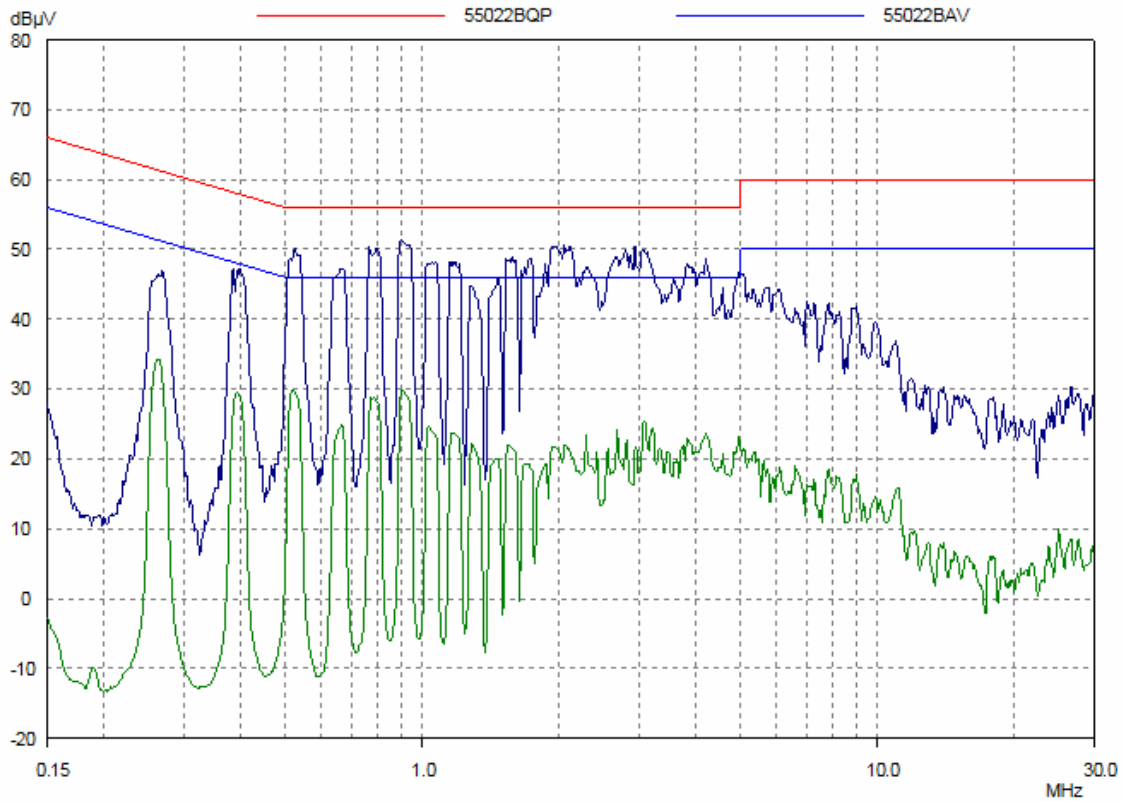
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N line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

“*” means the emission level is 6dB lower than the relevant limit.

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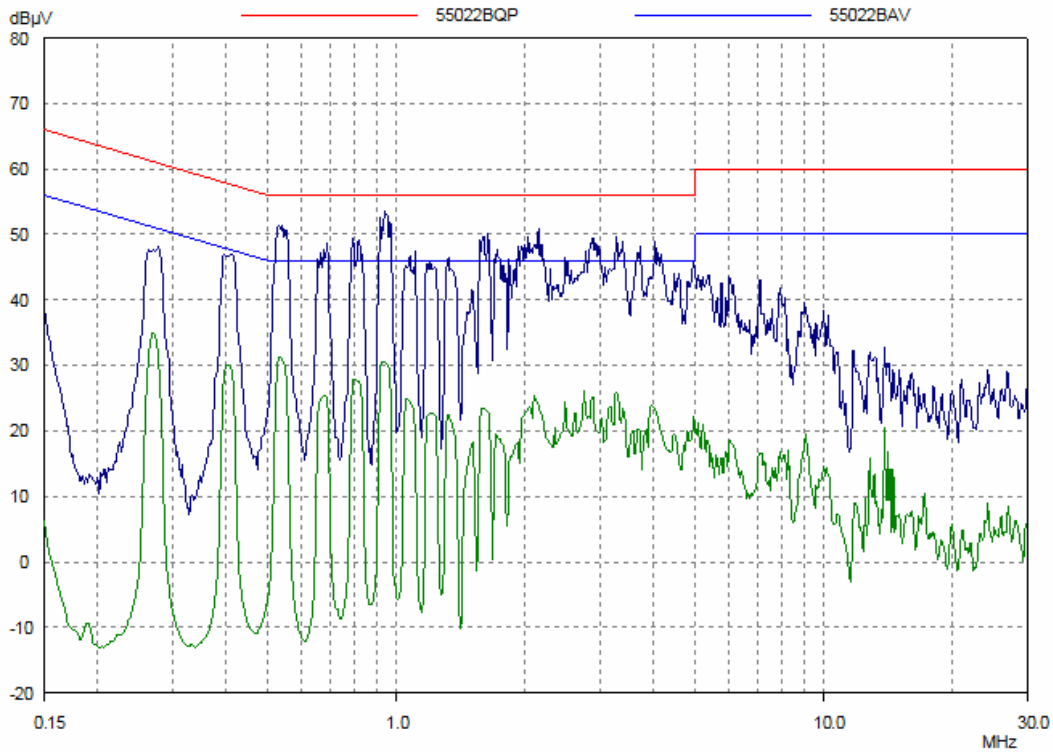
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PCS1900 dedicated, charging with adaptor:

L line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

“*” means the emission level is 6dB lower than the relevant limit.

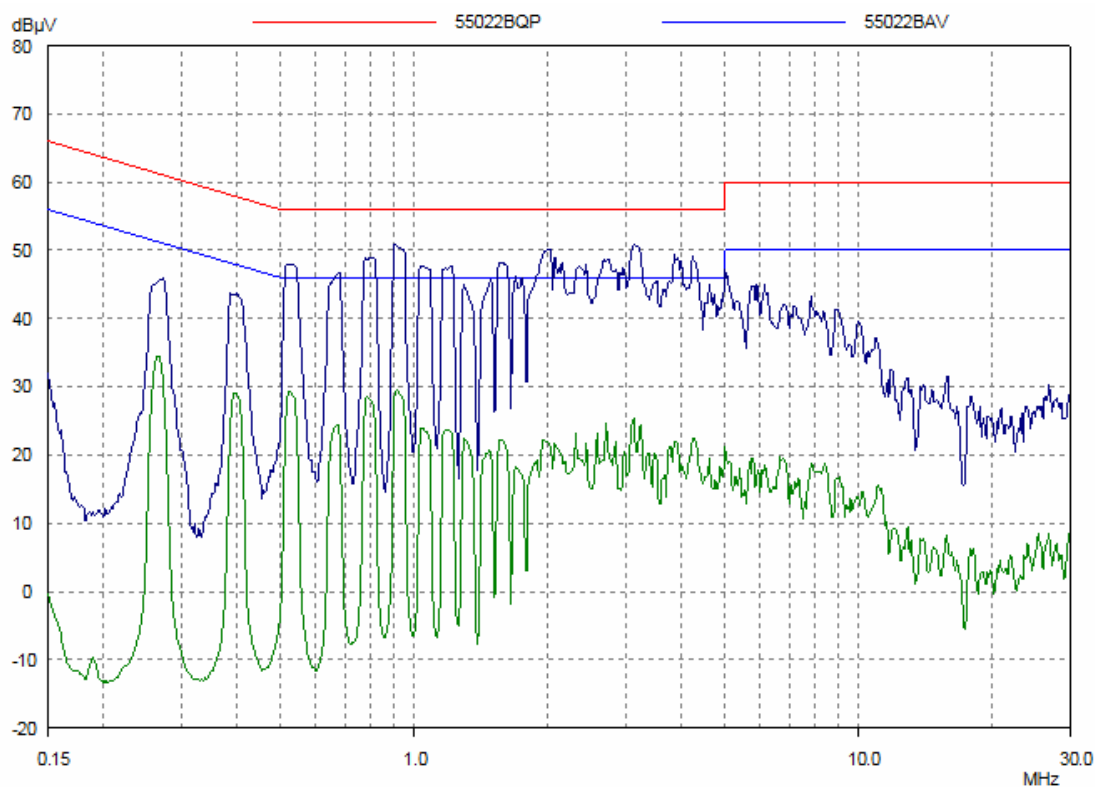
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N line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

“*” means the emission level is 6dB lower than the relevant limit.

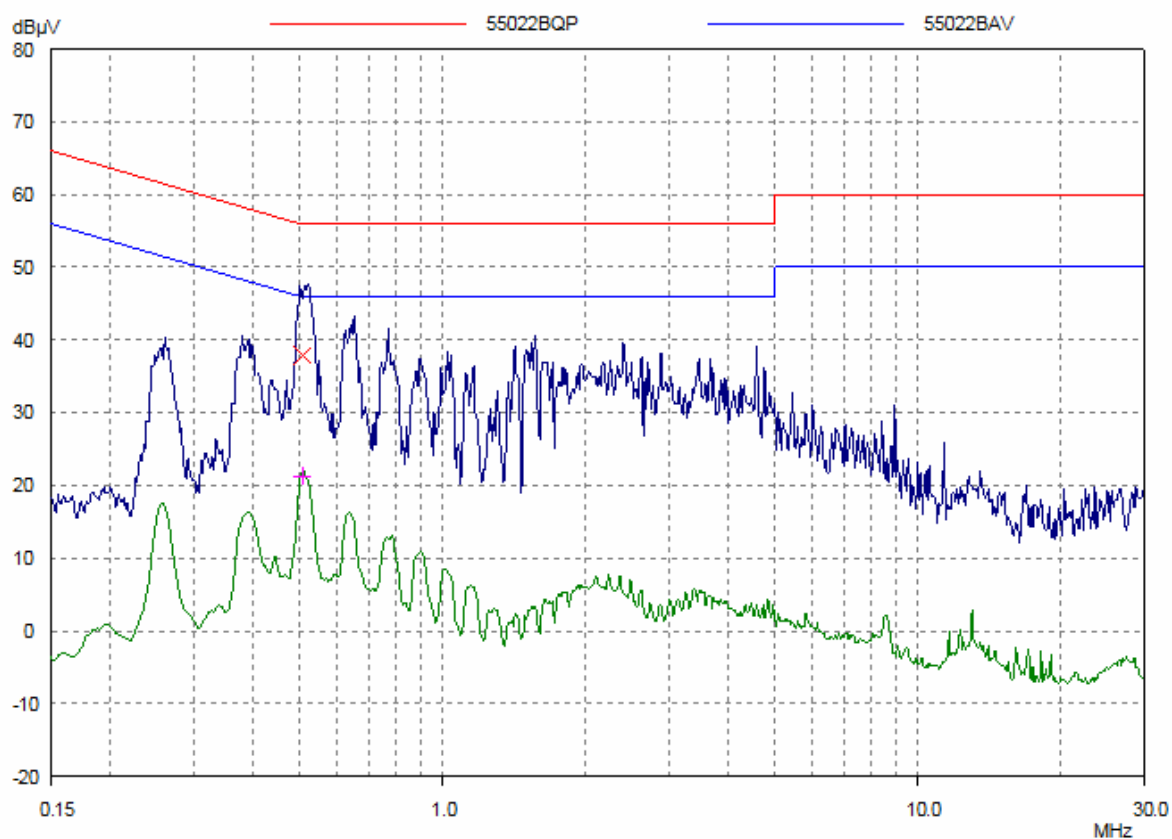
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Power supply 04
GSM850 dedicated, charging with adaptor:
L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.50763	37.85	56.00	18.15

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.50763	21.19	46.00	24.81

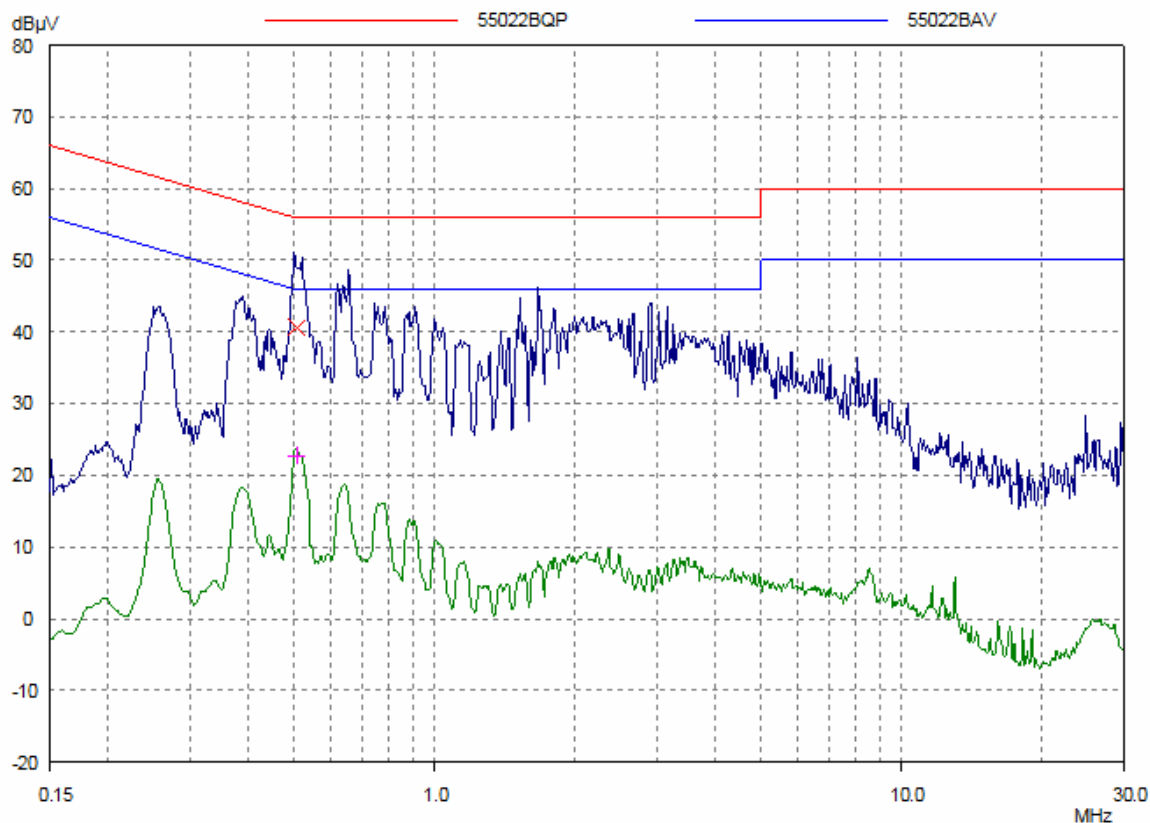
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.50763	40.62	56.00	15.38

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.50763	22.73	46.00	23.27

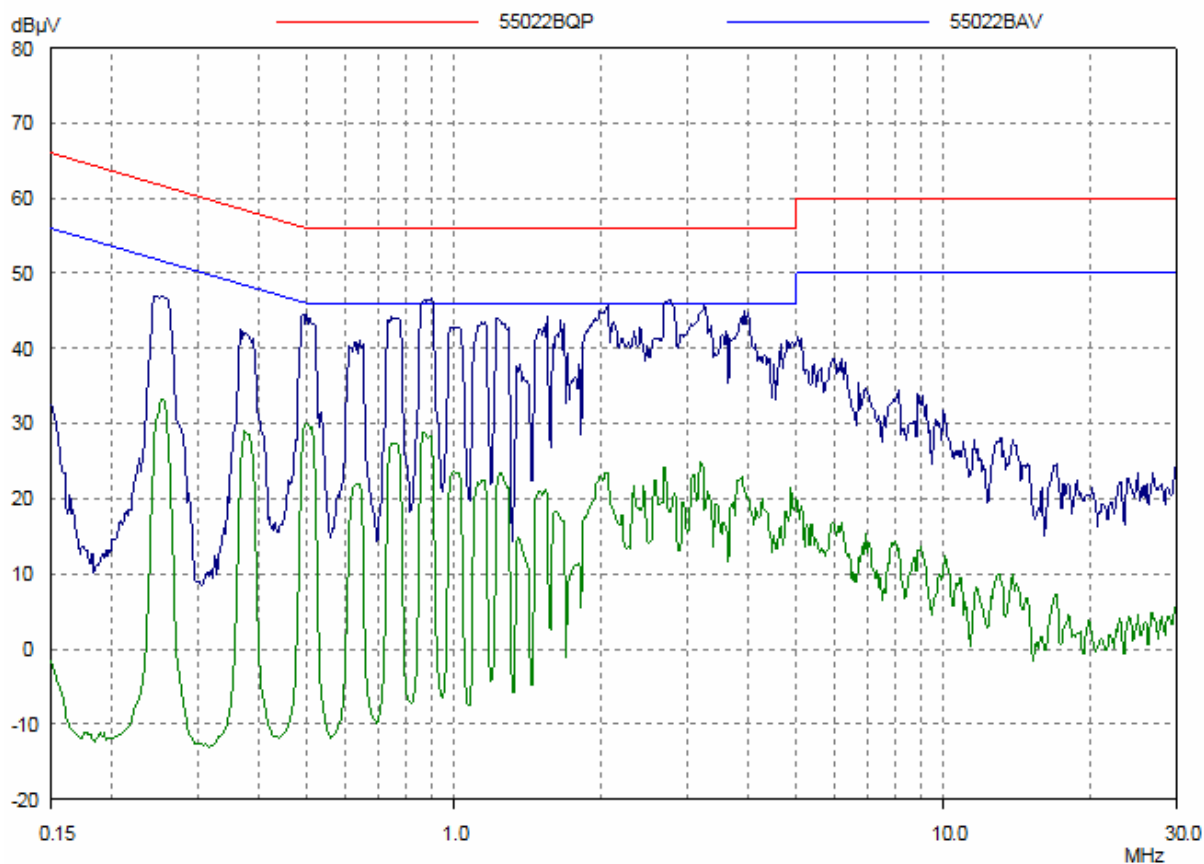
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PCS1900 dedicated, charging with adaptor:
L line:



Frequency (MHz)	Receiver QP Level (dBuV)	Limit (dBuV)	Margin (dB)	Receiver AV Level (dBuV)	Limit (dBuV)	Margin (dB)
0.15	*	66	*	*	56	*
0.24	*	63.43	*	*	53.44	*
0.543	*	56	*	*	46	*
5.00	*	56	*	*	46	*
10.00	*	60	*	*	50	*
22.00	*	60	*	*	50	*
30.00	*	60	*	*	50	*

“*” means the emission level is 6dB lower than the relevant limit.

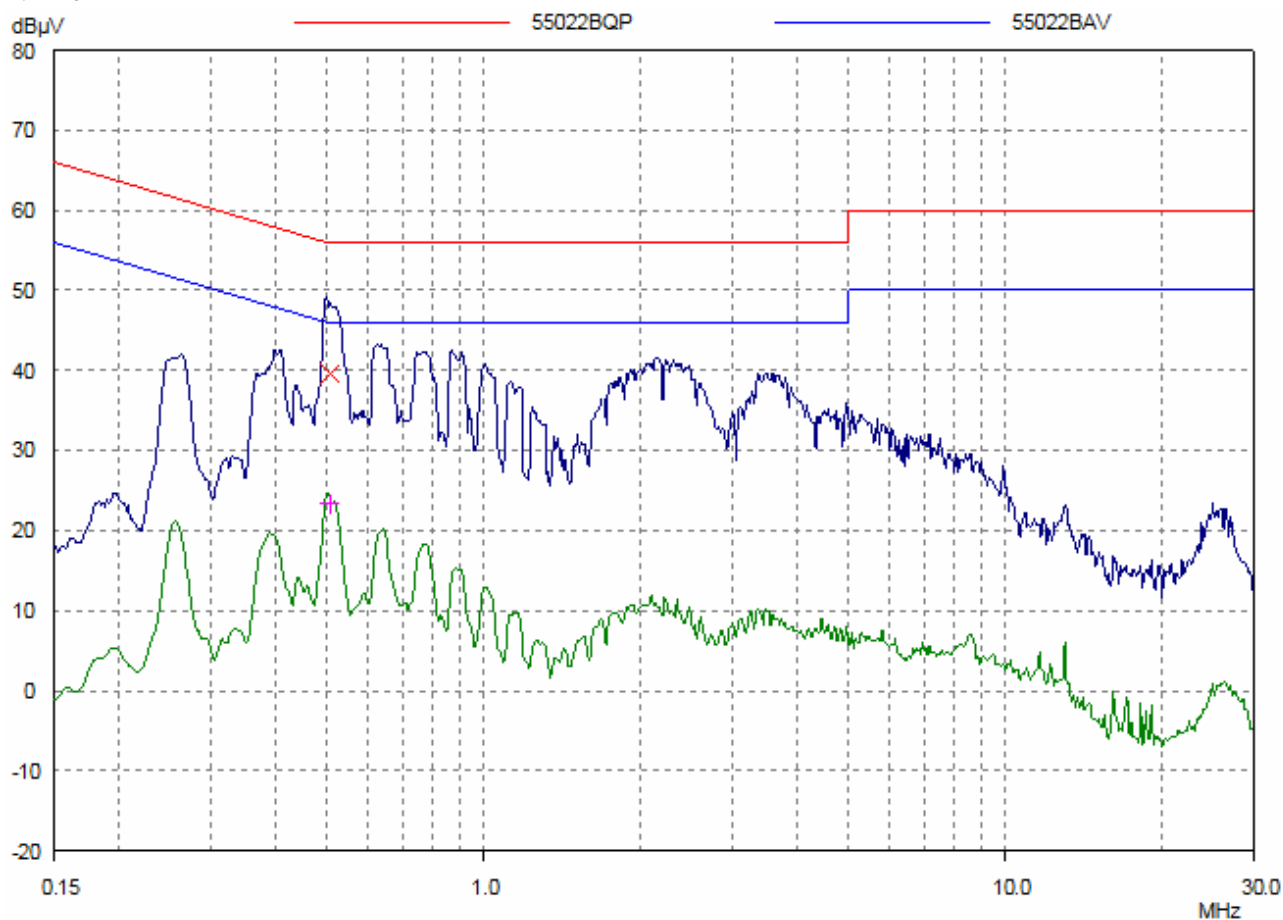
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N line



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.50763	39.59	56.00	16.41

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.50763	23.22	46.00	22.78

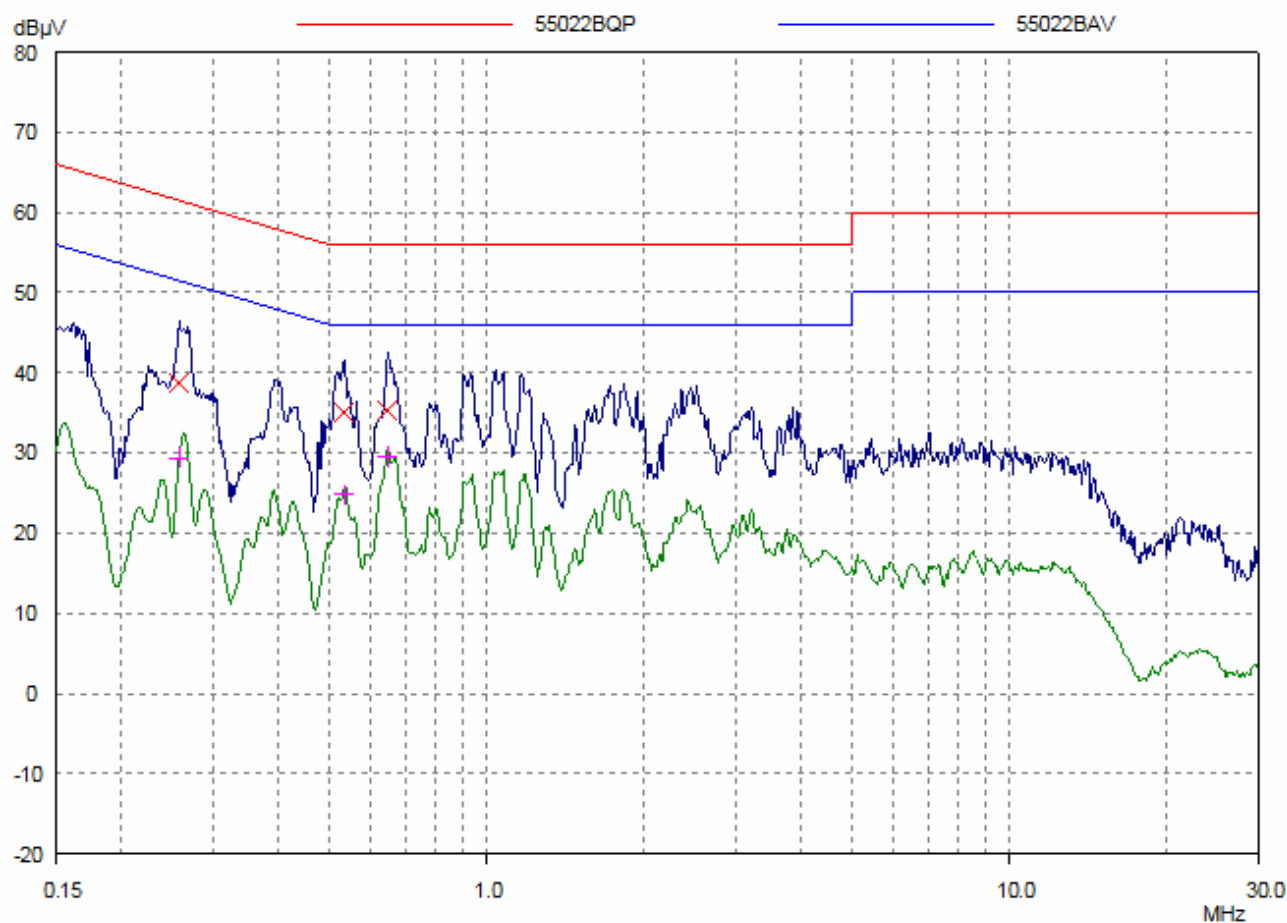
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Power supply 05
GSM850 dedicated, charging with adaptor:
L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25787	38.78	61.50	22.72
0.53249	35.07	56.00	20.93
0.64471	35.34	56.00	20.66

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25787	29.35	51.50	22.15
0.53249	24.79	46.00	21.21
0.64471	29.44	46.00	16.56

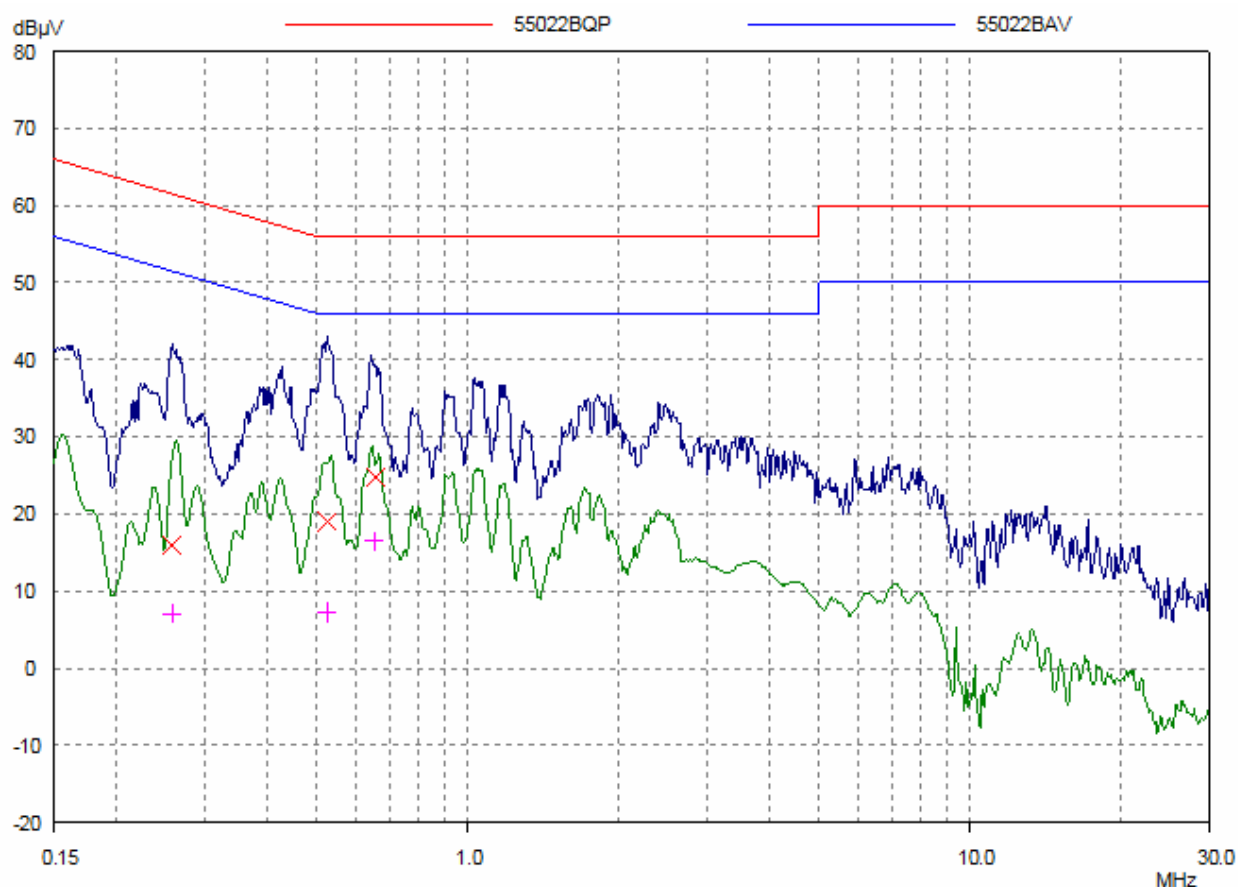
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.25787	15.92	61.50	45.58
0.52407	18.95	56.00	37.05
0.65507	24.69	56.00	31.31

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.25787	6.93	51.50	44.57
0.52407	7.17	46.00	38.83
0.65507	16.49	46.00	29.51

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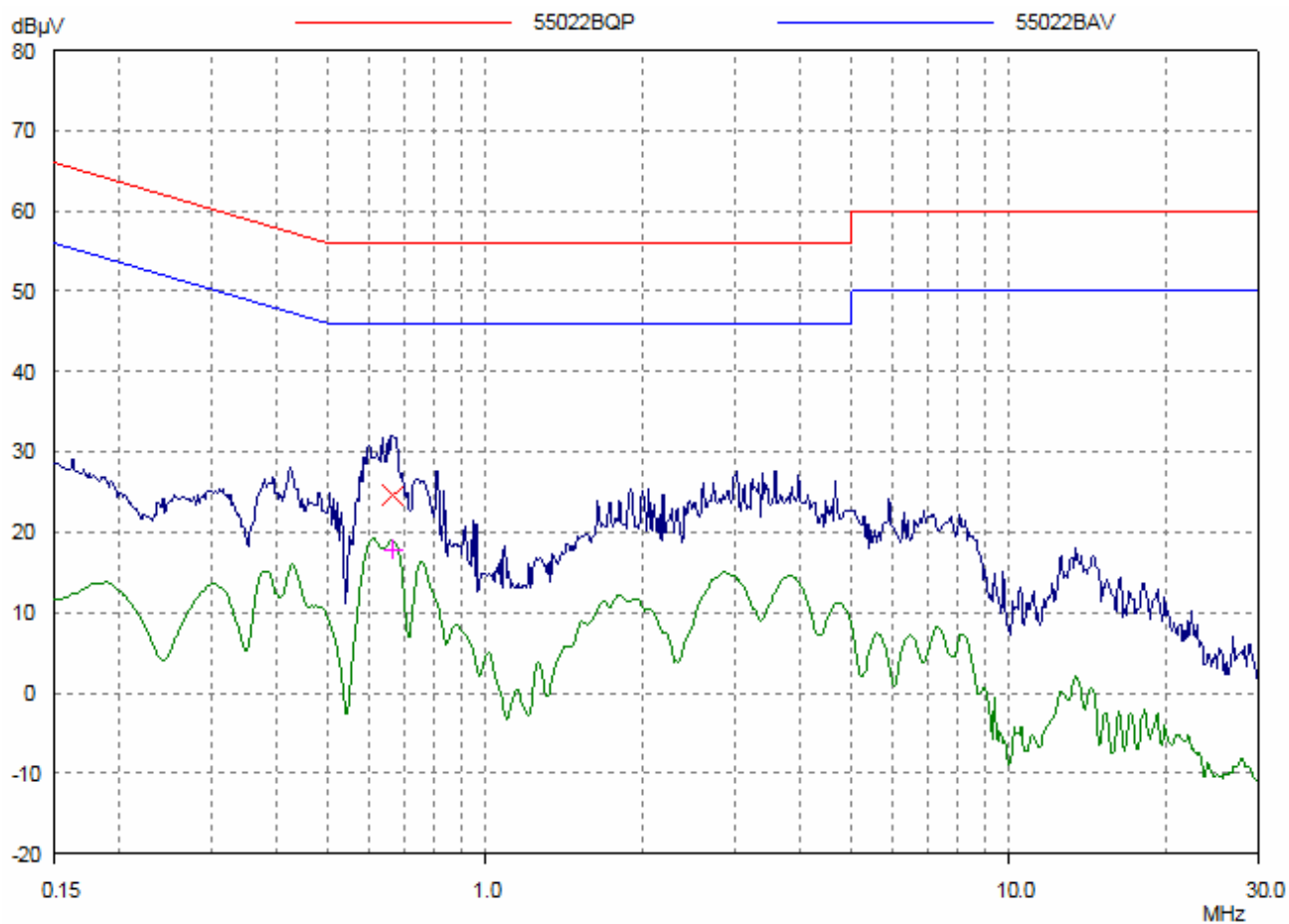
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PCS1900 dedicated, charging with adaptor:

L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.66559	24.57	56.00	31.43

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.66559	17.83	46.00	28.17

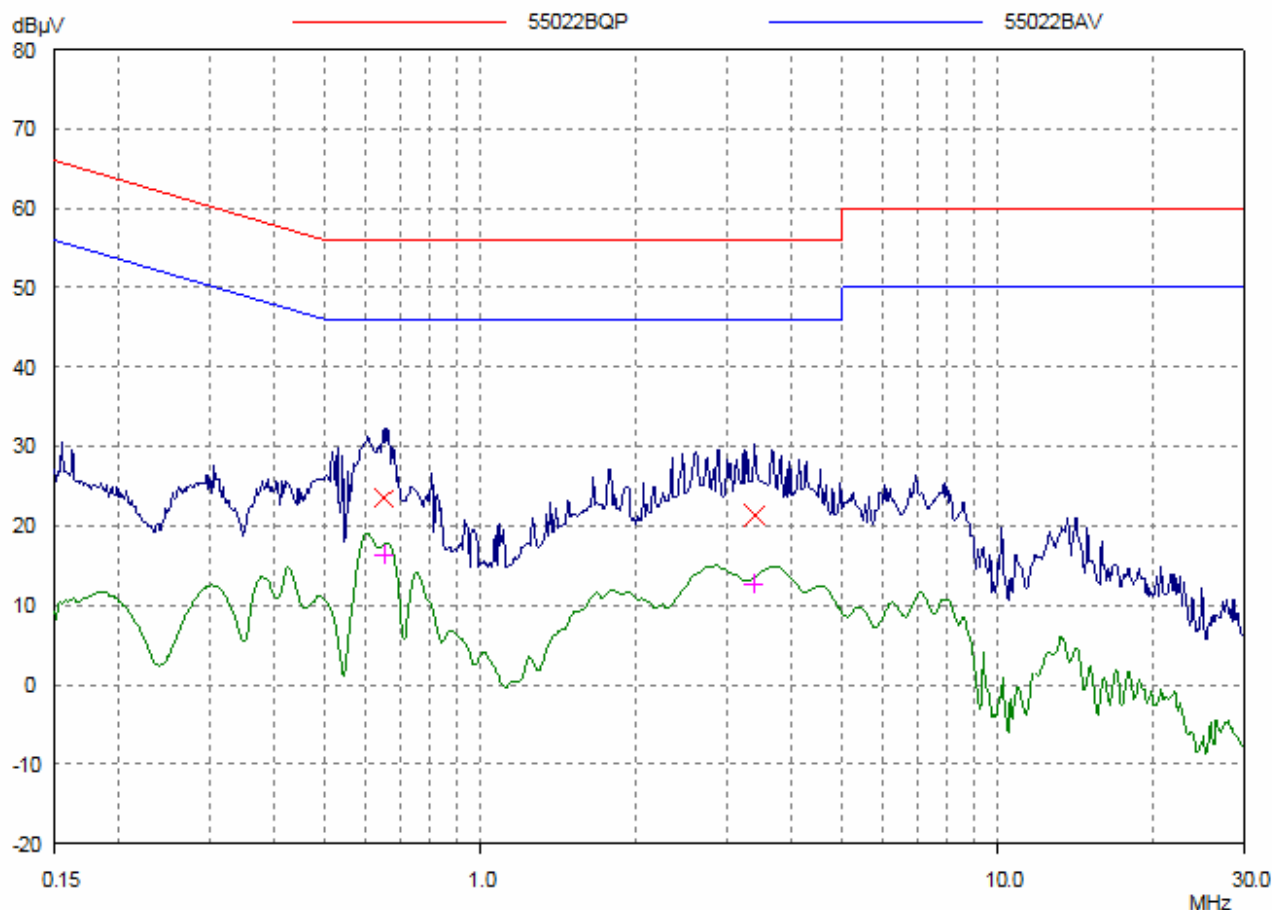
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N line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.64987	23.44	56.00	32.56
3.38188	21.29	56.00	34.71

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.64987	16.36	46.00	29.64
3.38188	12.67	46.00	33.33

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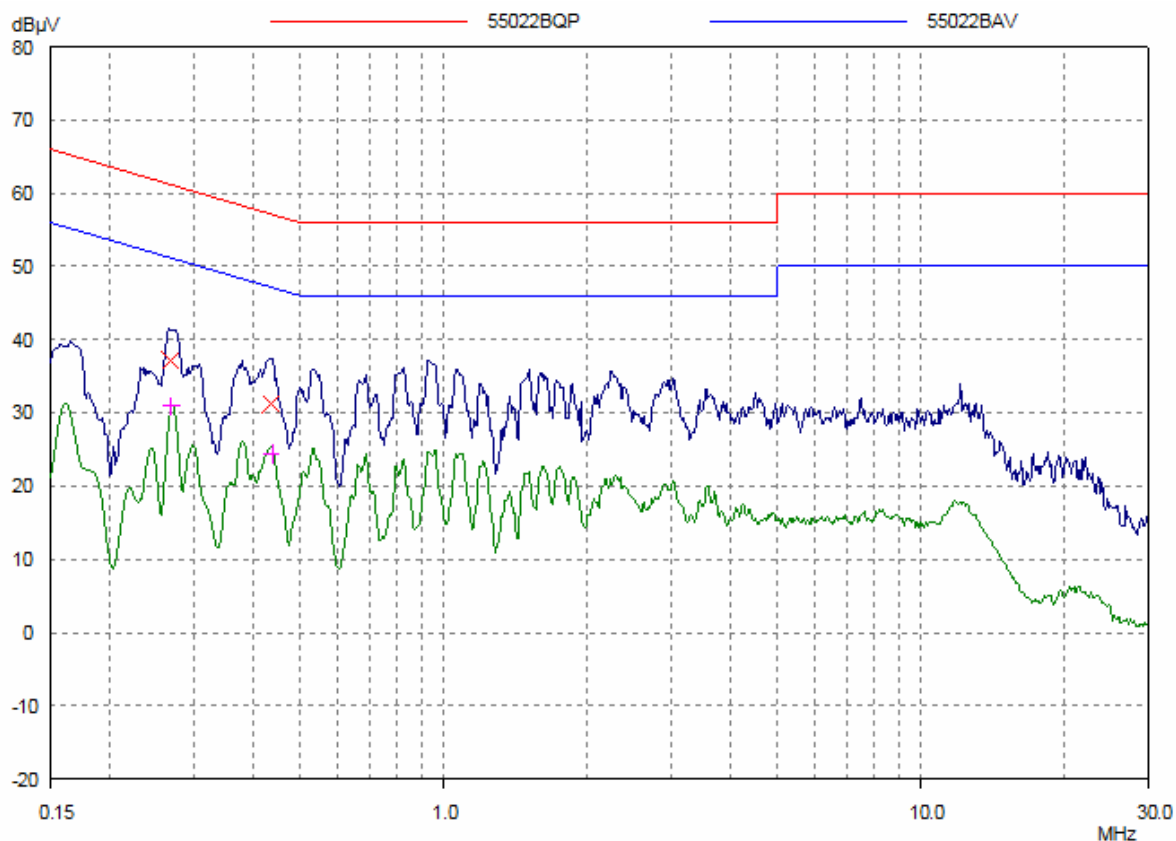
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GSM850 dedicated, charging with adaptor:

L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.26835	37.21	61.17	23.96
0.43631	31.22	57.13	25.91

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.26835	30.90	51.17	20.27
0.43631	24.35	47.13	22.78

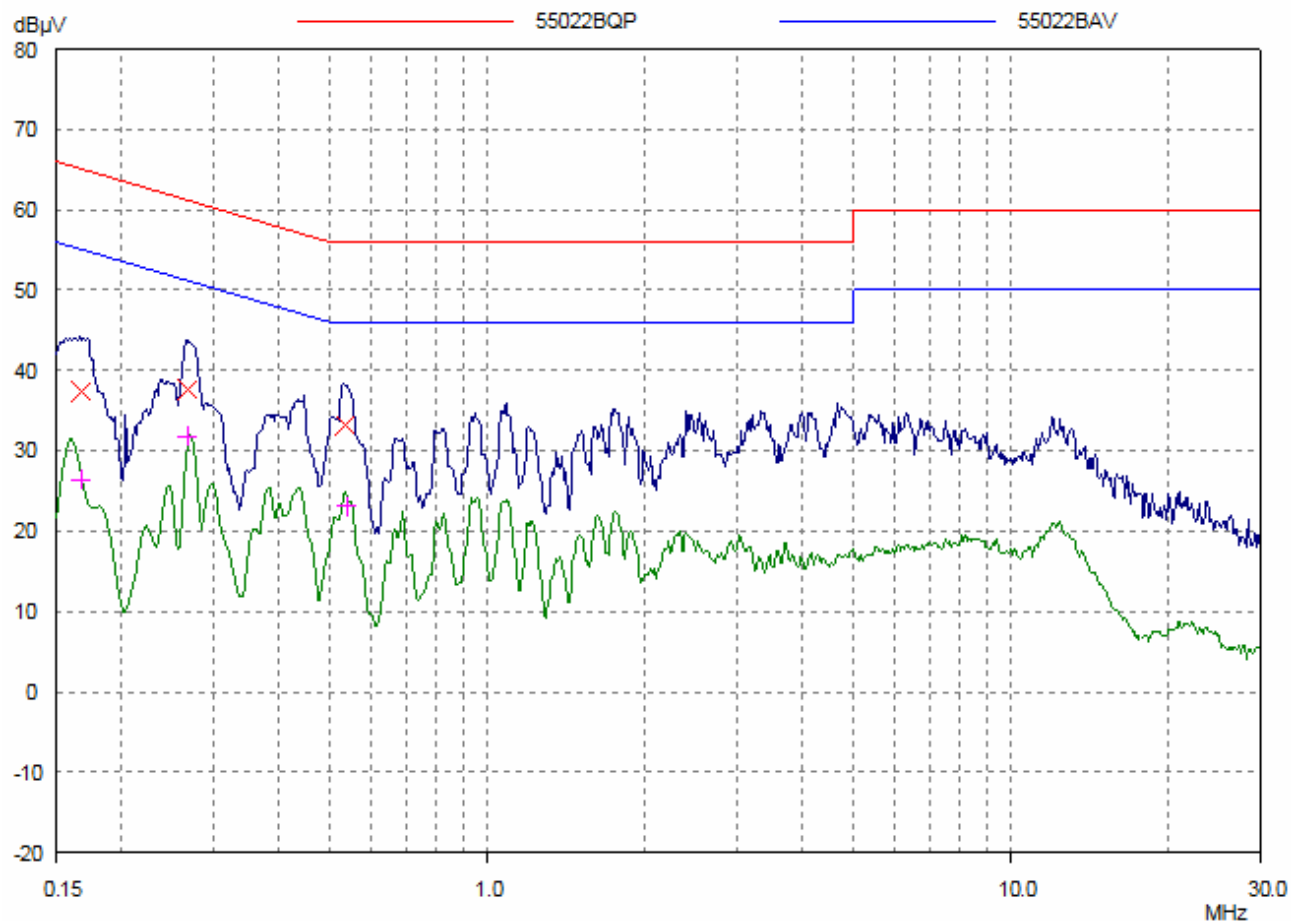
N line:

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Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.1677	37.36	65.07	27.71
0.26835	37.67	61.17	23.50
0.53675	33.19	56.00	22.81

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.1677	26.37	55.07	28.70
0.26835	31.71	51.17	19.46
0.53675	23.04	46.00	22.96

PCS1900 dedicated, charging with adaptor:

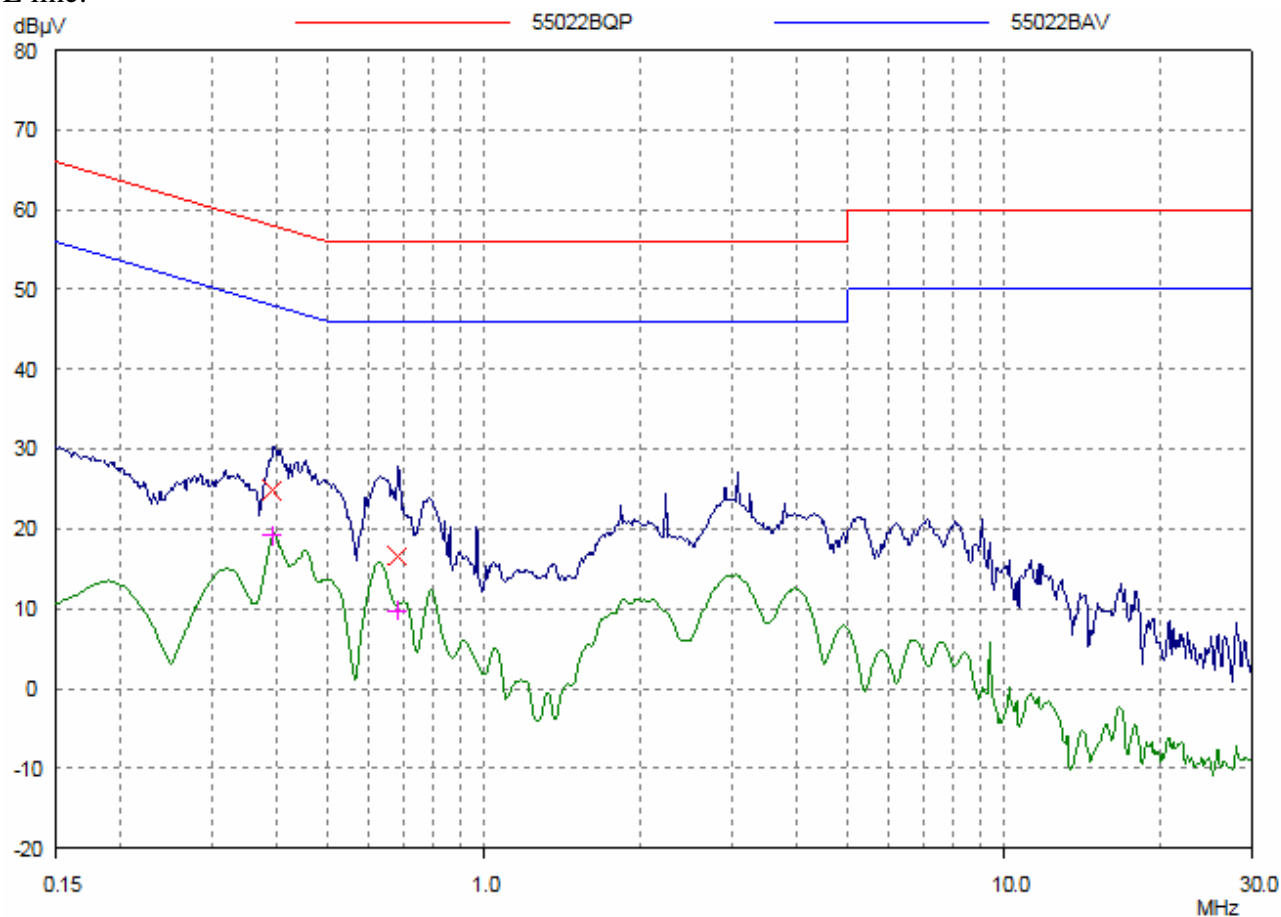
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L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.39026	24.82	58.06	33.24
0.68169	16.63	56.00	39.37

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.39026	19.08	48.06	28.98
0.68169	9.62	46.00	36.38

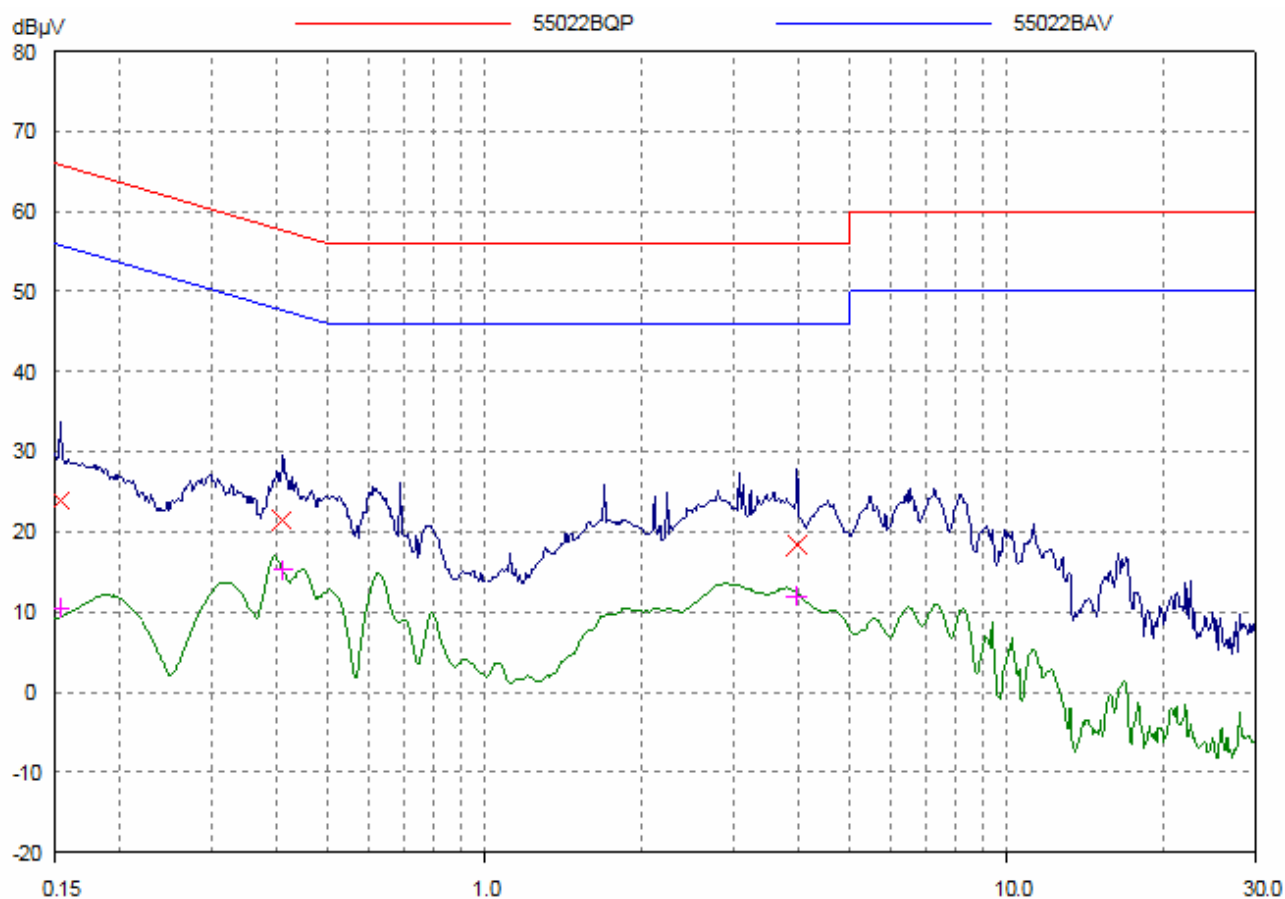
N line:

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Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15362	23.87	65.80	41.93
0.40937	21.39	57.66	36.27
3.96615	18.31	56.00	37.69

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15362	10.36	55.80	45.44
0.40937	15.15	47.66	32.51
3.96615	11.83	46.00	34.17

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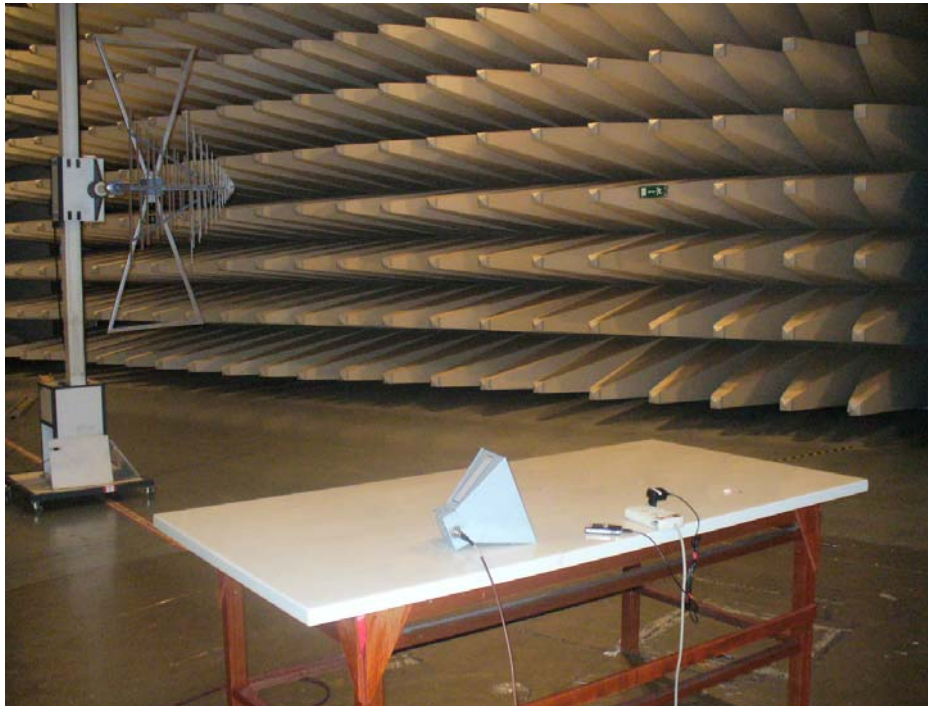
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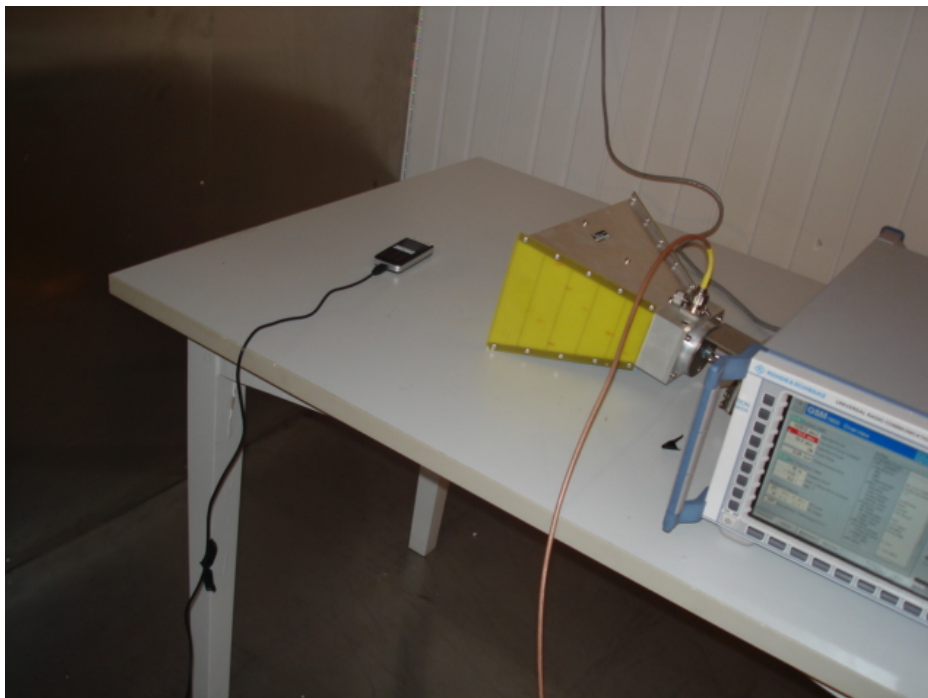
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7 Photographs

7.1 Radiated Emission Test Setup



7.2 Conducted Emission Test Setup



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7.3 EUT Constructional Details



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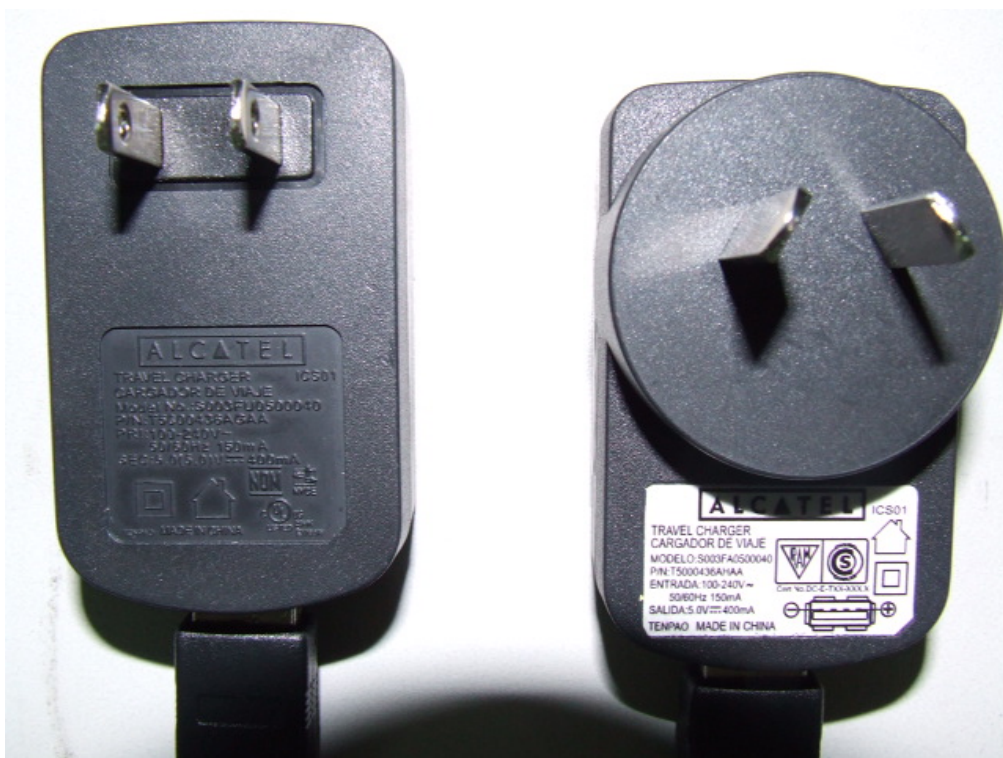


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