

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

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FCC TEST REPORT(DOC)

Application No.: SHEMO070100017IT

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 850/1900 mobile phone with BT

Model No.: C7Ca

Marketing Name: OT-C701a

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: 12 January 2007

Date of Test: 13 January 2007 to 19 January 2007

Date of Issue: 22 January 2007

Test Result :	PASS
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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

Note: OT-C701a has two travel adapters and a cigar light adapter. As all the adapters are the same with which of OT-820a, the conducted emission test data of this report refers to OT-820a whose report number is SHEMA061100022IT

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4 General Information

4.1 Client Information

Applicant: T&A Mobile Phones
Address of Applicant: 4/F, No.2966, Jinke Rd, Zhangjiang High-Tech Park, Pudong
Shanghai 201203. P. R. China

4.2 General Description of E.U.T.

EUT Name: GSM 850/1900 mobile phone with BT
Model No.: C7Ca
Marketing Name: OT-C701a
Serial No.: N/A
Test GSM Frequency Bands GSM850/PCS1900

4.3 Details of E.U.T.

Power Supply01: 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 Cord01: 2.0m

Power Supply02: 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 Cord02: 2.0m

Power Supply03: DC charger (Model NO:3DS11023 AAAA
(Cigar lighter charger) Input: 12 - 24VDC, 0.3 A)
Manufactures: Leader

Battery01 DC 3.7V / 700mAh
modle: T5000572AAAA

Battery02 DC 3.7V / 750mAh
modle: T5001418AAAA

Data cable Model NO: T5001431AAAA
Manufacturers: Quancheng

Headset: Model NO: T5000361AAAA
Manufacturers: Quancheng

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Micro-SD CARD 512M Model NO: T5000332AAAA
(with adapter) Manufacturers: Sandisk

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 GSM 850/1900 mobile phone with BT
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

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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4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Monitoring of EUT for All Immunity Test

N/A

4.10 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:	17 January 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)

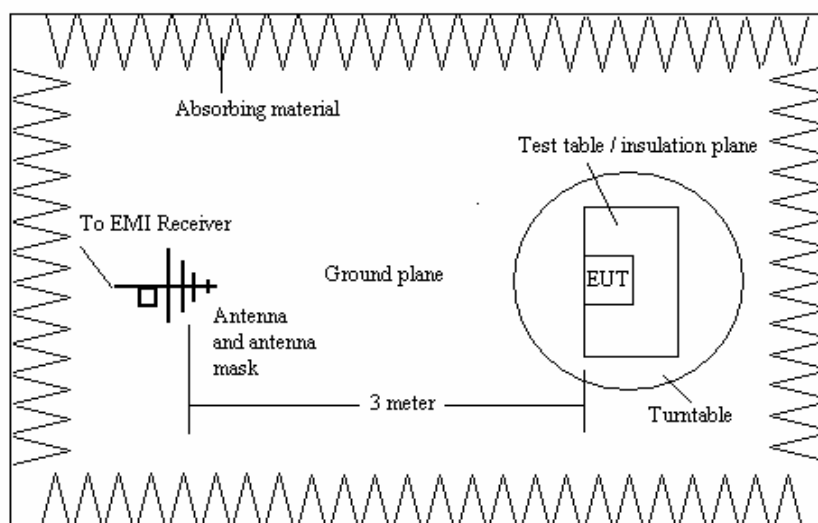
6.1.1 E.U.T. Operation

Operating Environment:

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

EUT Operation: EUT allocated channel mode GSM850&PCS 1900 with charger

6.1.2 Test setup:



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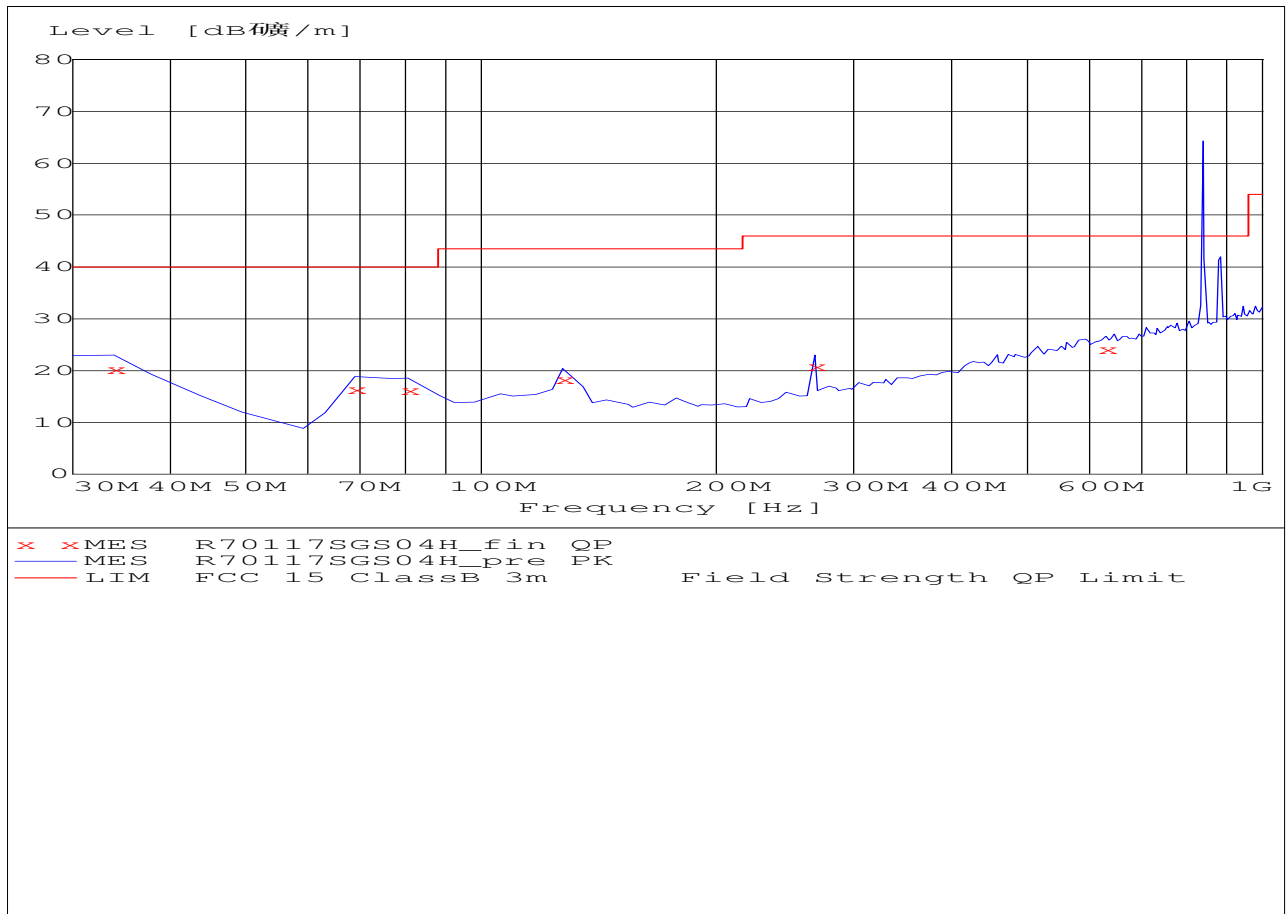
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6.1.3 Test Result:

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

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
33.887776	20.21	100.0	100.00	HORIZONTAL	40.00	19.79
68.877756	16.25	150.0	200.00	HORIZONTAL	40.00	23.75
80.541082	16.08	100.0	0.00	HORIZONTAL	40.00	23.92
127.194389	18.24	200.0	90.00	HORIZONTAL	43.50	25.26
267.154309	20.71	150.0	270.00	HORIZONTAL	46.00	25.29
630.661323	24.02	250.0	170.00	HORIZONTAL	46.00	21.98

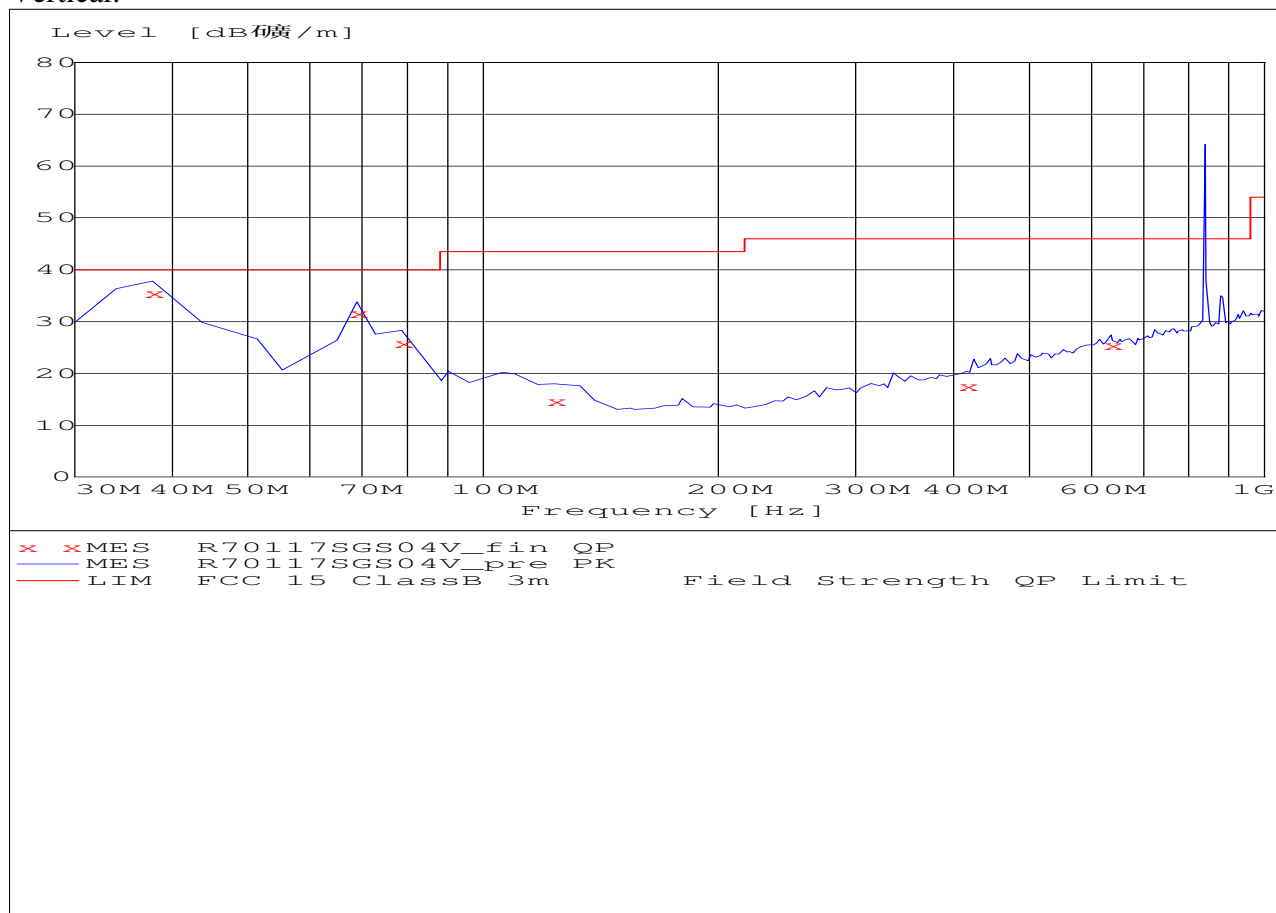
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
37.775551	35.24	100.0	90.00	VERTICAL	40.00	4.76
68.877756	31.45	120.0	180.00	VERTICAL	40.00	8.55
78.597194	25.68	200.0	240.00	VERTICAL	40.00	14.32
123.306613	14.56	100.0	0.00	VERTICAL	43.50	28.94
414.889780	17.28	200.0	120.00	VERTICAL	46.00	28.72
636.492986	25.28	250.0	120.00	VERTICAL	46.00	20.72

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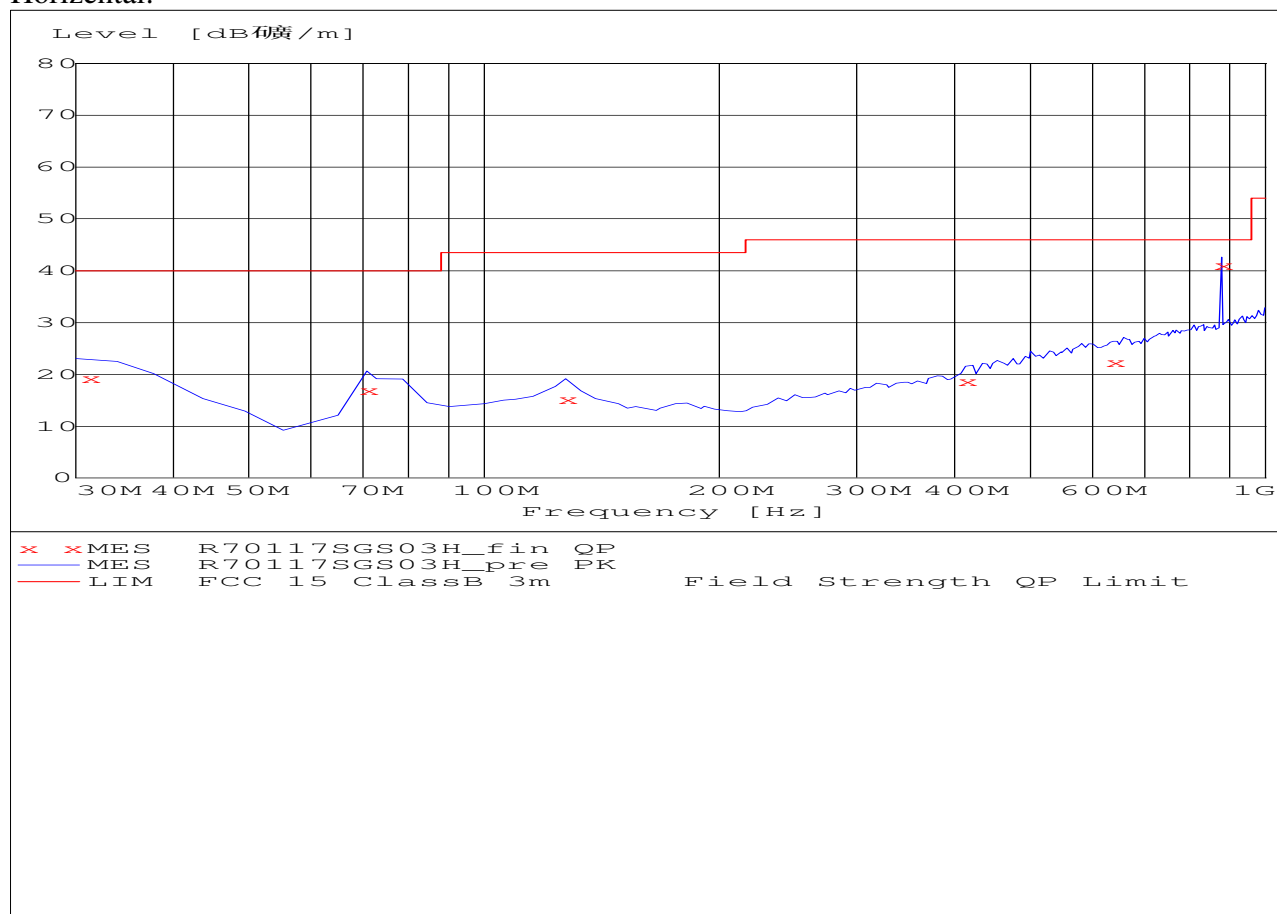
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GSM1900 dedicated: (test with the adapter of power supply 01)

Horizontal:



Frequency MHz	Level dBμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
31.204241	19.25	100.0	80.00	HORIZONTAL	40.00	20.75
70.821643	16.87	150.0	180.00	HORIZONTAL	40.00	23.13
127.194389	15.02	200.0	210.00	HORIZONTAL	43.50	28.48
412.945892	18.54	100.0	250.00	HORIZONTAL	46.00	27.46
638.436874	22.35	150.0	0.00	HORIZONTAL	46.00	23.65
877.535070	41.05	300.0	180.00	HORIZONTAL	46.00	4.95

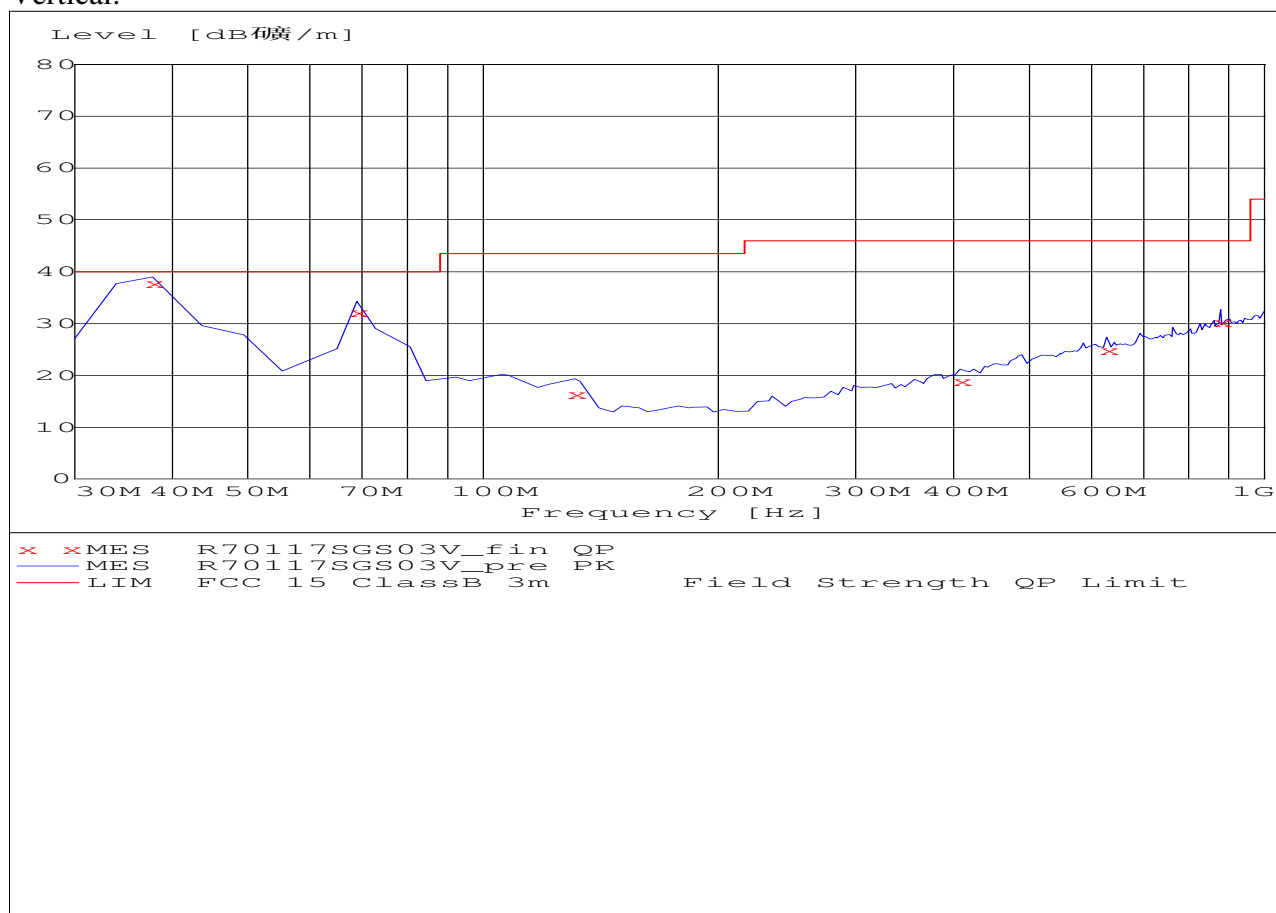
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
37.775551	37.52	100.0	80.00	VERTICAL	40.00	2.48
68.877756	32.08	150.0	180.00	VERTICAL	40.00	7.92
131.082164	16.28	200.0	120.00	VERTICAL	43.50	27.22
407.114228	18.68	100.0	250.00	VERTICAL	46.00	27.32
628.717435	24.77	200.0	0.00	VERTICAL	46.00	21.23
877.535070	30.15	300.0	60.00	VERTICAL	46.00	15.85

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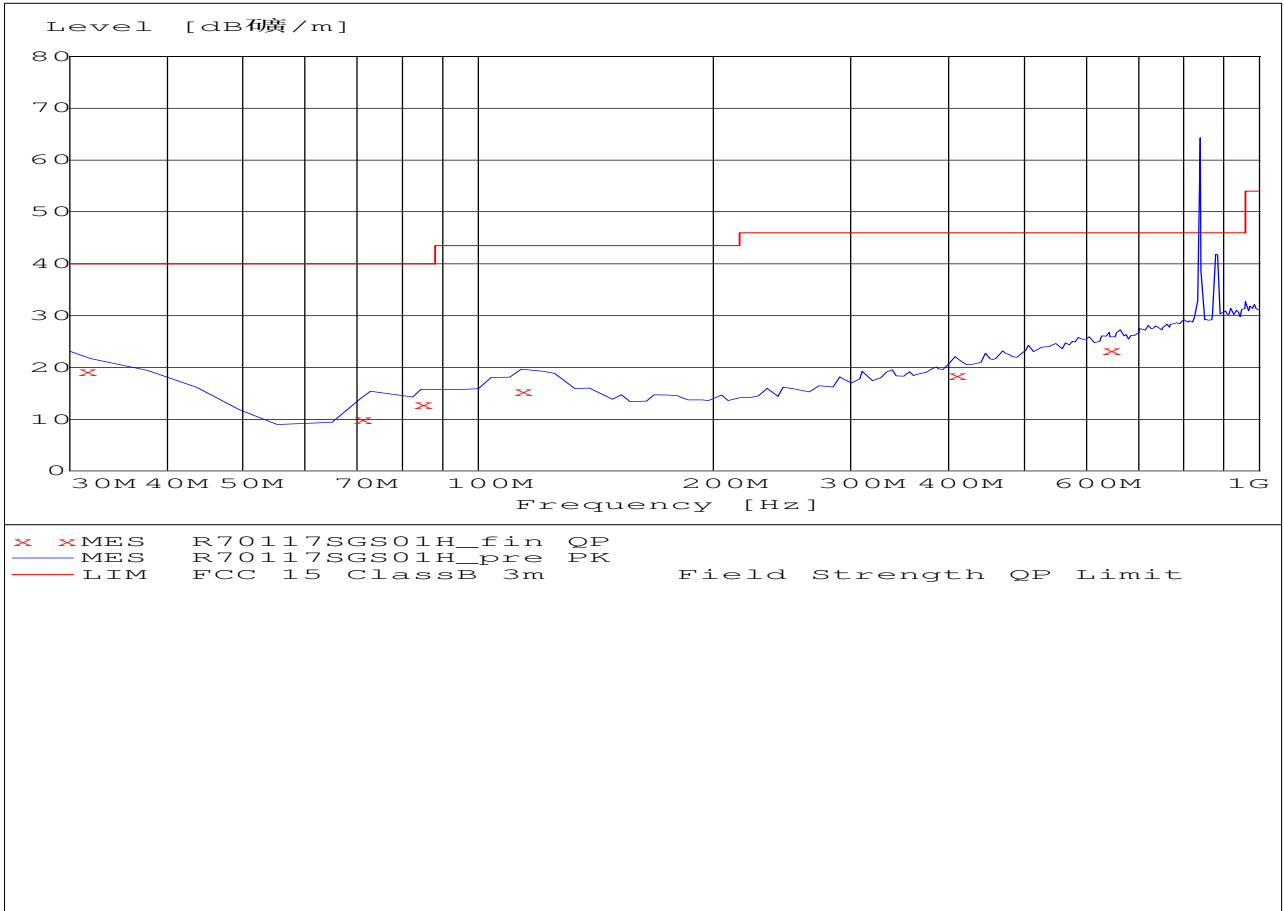
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GSM850 dedicated: (test with the adapter of power supply 02)

Horizontal:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
31.452782	19.12	120.0	60.00	HORIZONTAL	40.00	20.88
70.821643	10.02	100.0	120.00	HORIZONTAL	40.00	29.98
84.428858	12.89	190.0	70.00	HORIZONTAL	40.00	27.11
113.587174	15.32	150.0	30.00	HORIZONTAL	43.50	28.18
407.114228	18.38	100.0	180.00	HORIZONTAL	46.00	27.62
642.324649	23.11	250.0	240.00	HORIZONTAL	46.00	22.89

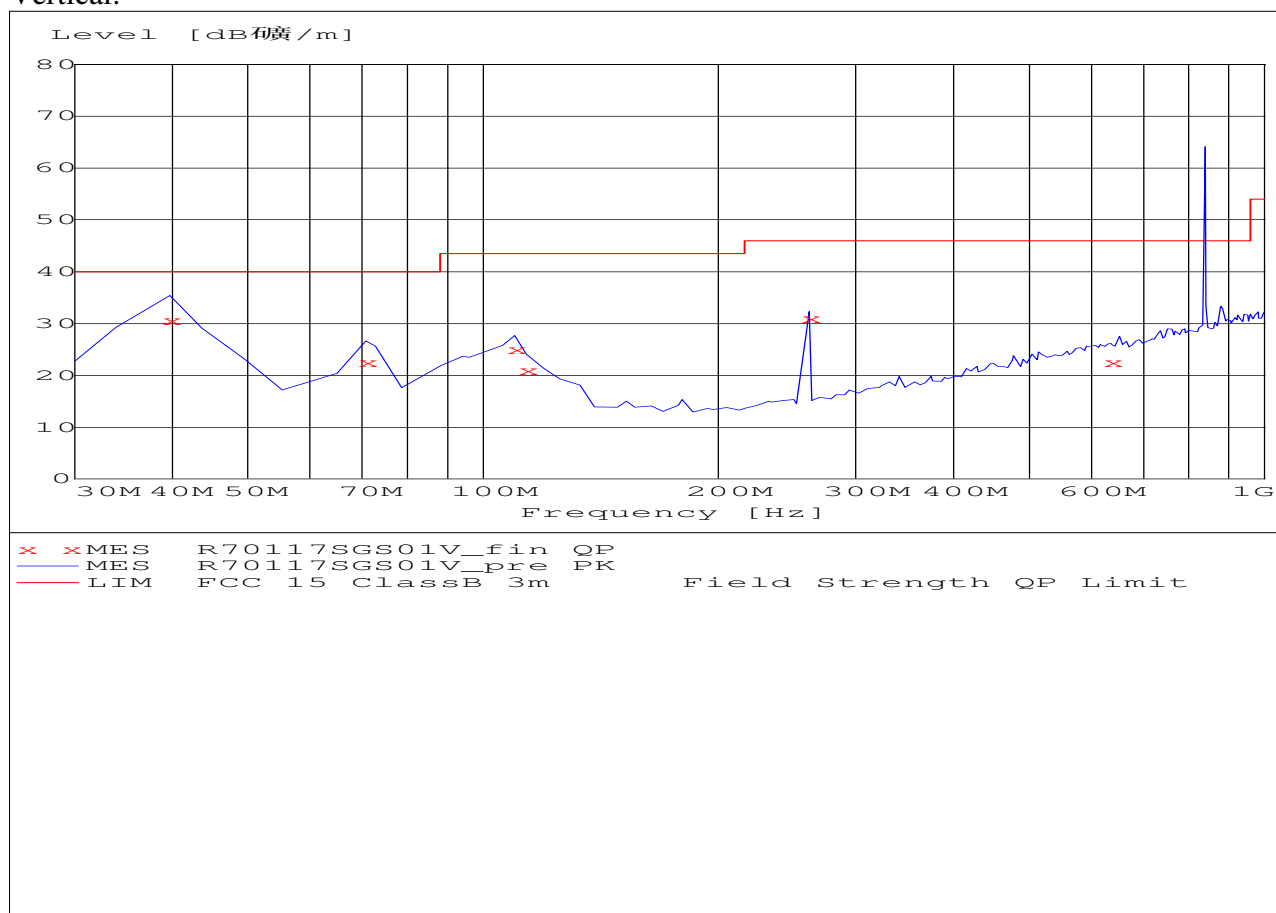
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Vertical:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
39.719439	30.58	100.0	80.00	VERTICAL	40.00	9.42
70.821643	22.45	120.0	210.00	VERTICAL	40.00	17.55
109.699399	24.96	200.0	170.00	VERTICAL	43.50	18.54
113.587174	21.02	200.0	180.00	VERTICAL	43.50	22.48
261.322645	30.85	120.0	40.00	VERTICAL	46.00	15.15
636.492986	22.55	300.0	0.00	VERTICAL	46.00	23.45

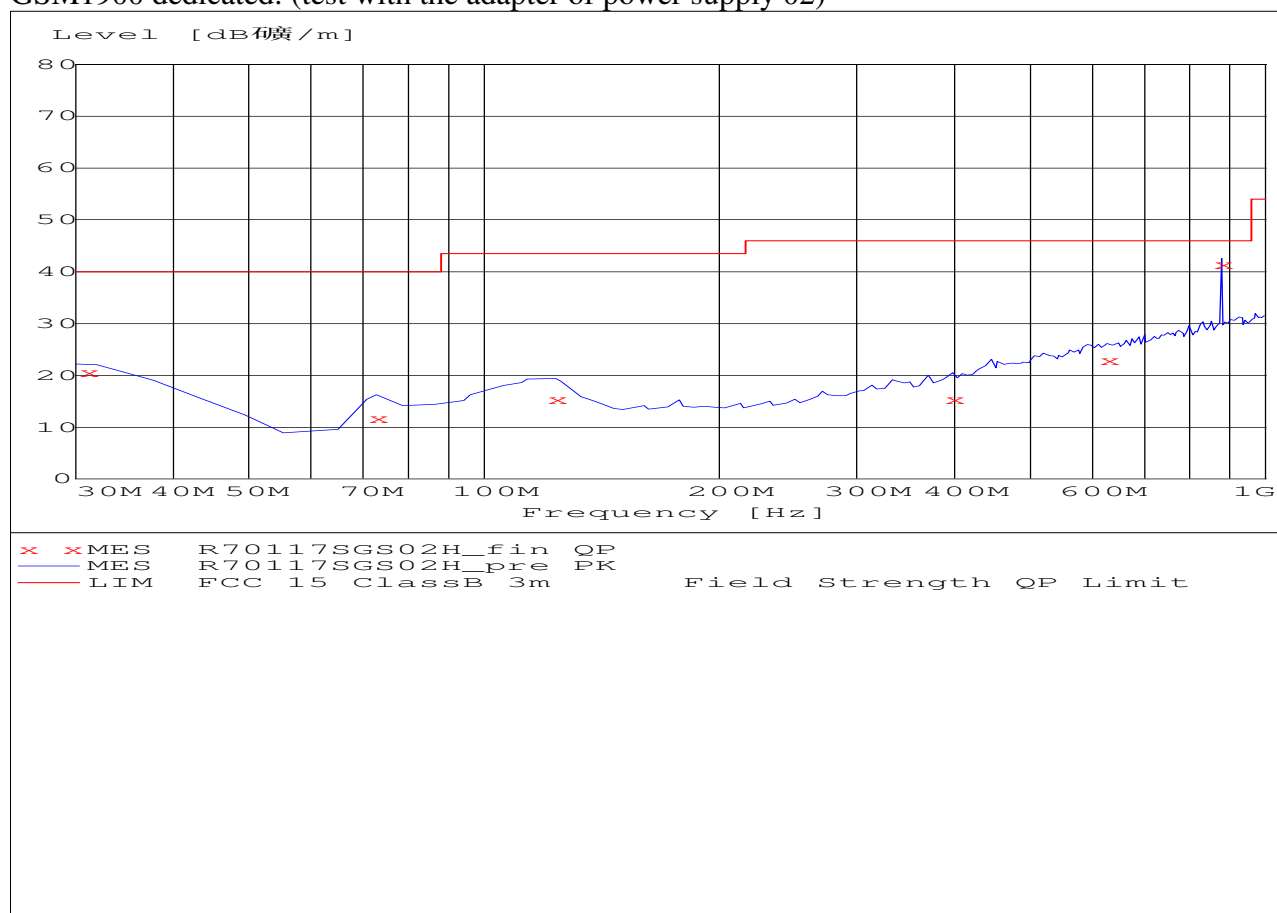
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GSM1900 dedicated: (test with the adapter of power supply 02)



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
31.022454	20.45	100.0	90.00	HORIZONTAL	40.00	19.55
72.765531	11.68	120.0	180.00	HORIZONTAL	40.00	28.32
123.306613	15.24	200.0	0.00	HORIZONTAL	43.50	28.36
397.394790	15.24	150.0	210.00	HORIZONTAL	46.00	30.76
626.773547	22.85	200.0	180.00	HORIZONTAL	46.00	23.15
877.535070	41.28	250.0	120.00	HORIZONTAL	46.00	4.72

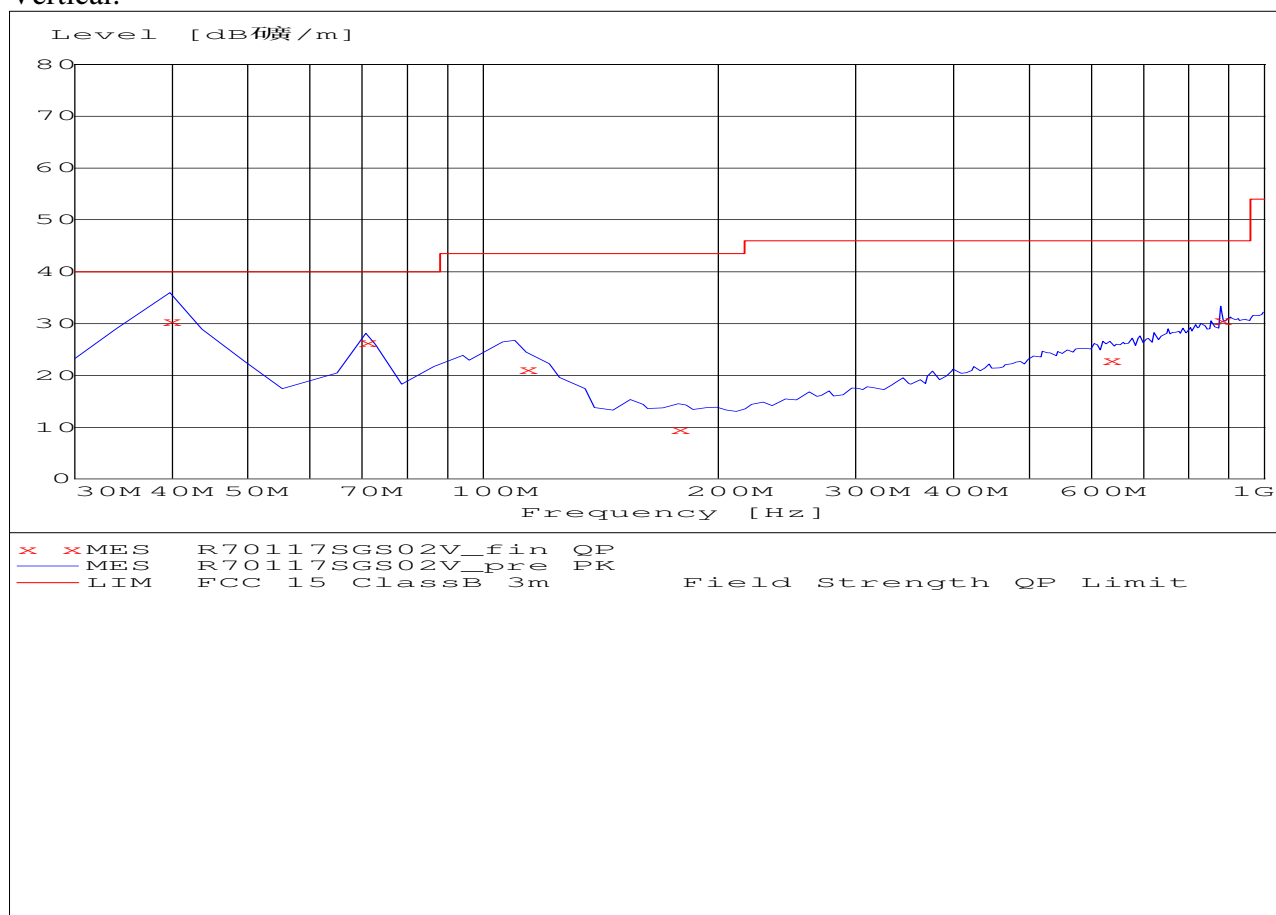
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
39.719439	30.28	100.0	80.00	VERTICAL	40.00	9.72
70.821643	26.21	120.0	210.00	VERTICAL	40.00	13.79
113.587174	21.15	200.0	120.00	VERTICAL	43.50	22.35
177.735471	9.38	100.0	180.00	VERTICAL	43.50	34.12
634.549098	22.74	200.0	100.00	VERTICAL	46.00	23.26
877.535070	30.54	250.0	0.00	VERTICAL	46.00	15.46

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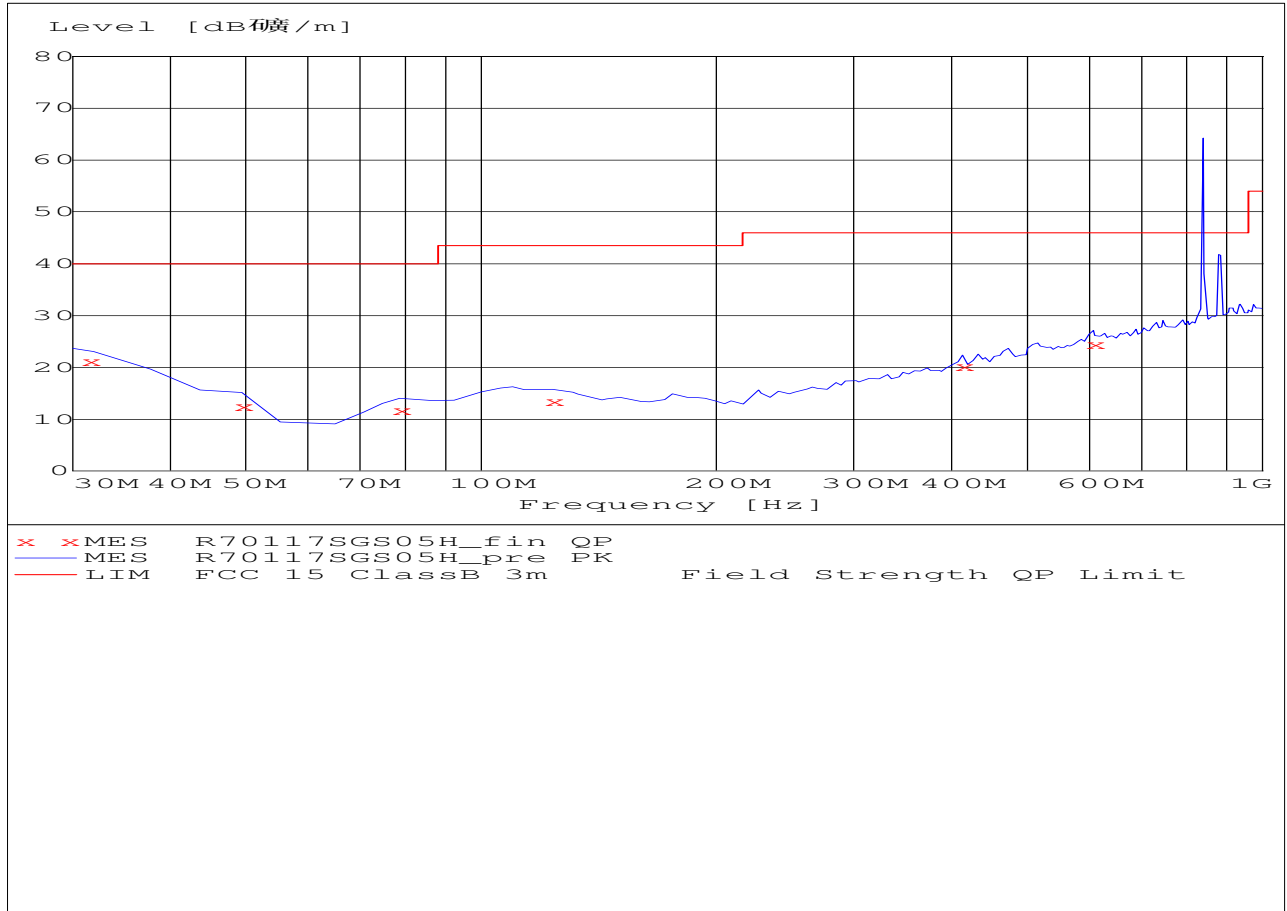
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GSM850 dedicated: (test with the adapter of power supply 03)

Horizontal:



Frequency	Level	Height	Azimuth	Polarisation	Limit	Margin
MHz	dB μ V/m	cm	deg		dB μ V/m	dB μ V/m
31.524241	21.12	100.0	80.00	HORIZONTAL	40.00	18.88
49.438878	12.37	120.0	150.00	HORIZONTAL	40.00	27.63
78.597194	11.61	100.0	0.00	HORIZONTAL	40.00	28.39
123.306613	13.28	200.0	220.00	HORIZONTAL	43.50	29.72
412.945892	20.18	300.0	120.00	HORIZONTAL	46.00	25.82
607.334669	24.36	250.0	90.00	HORIZONTAL	46.00	21.64

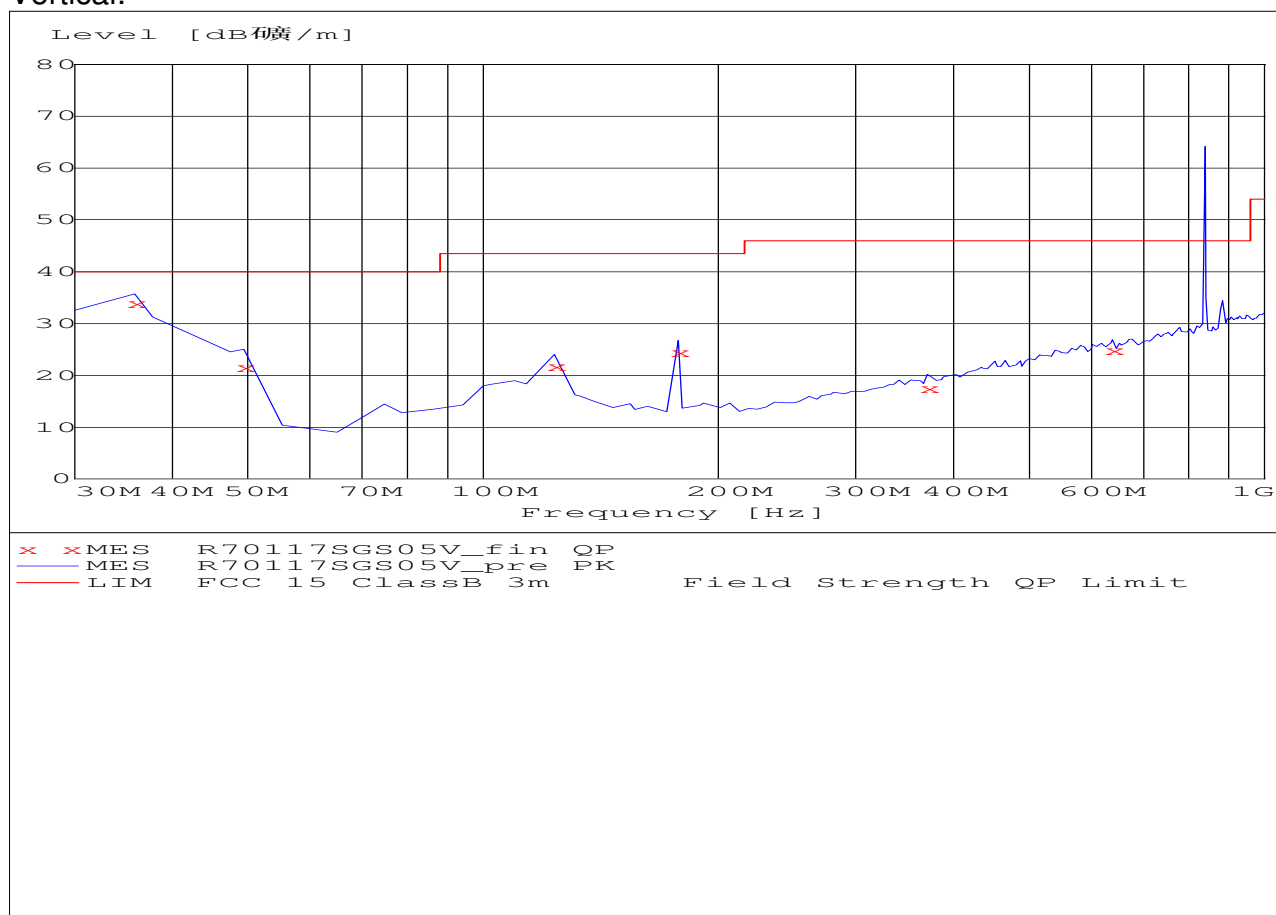
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
35.831663	33.89	100.0	90.00	VERTICAL	40.00	6.11
49.438878	21.43	100.0	180.00	VERTICAL	40.00	18.57
123.306613	21.56	150.0	240.00	VERTICAL	43.50	21.94
177.735471	24.25	100.0	0.00	VERTICAL	43.50	19.25
370.180361	17.35	200.0	120.00	VERTICAL	46.00	28.65
638.436874	24.71	300.0	130.00	VERTICAL	46.00	21.29

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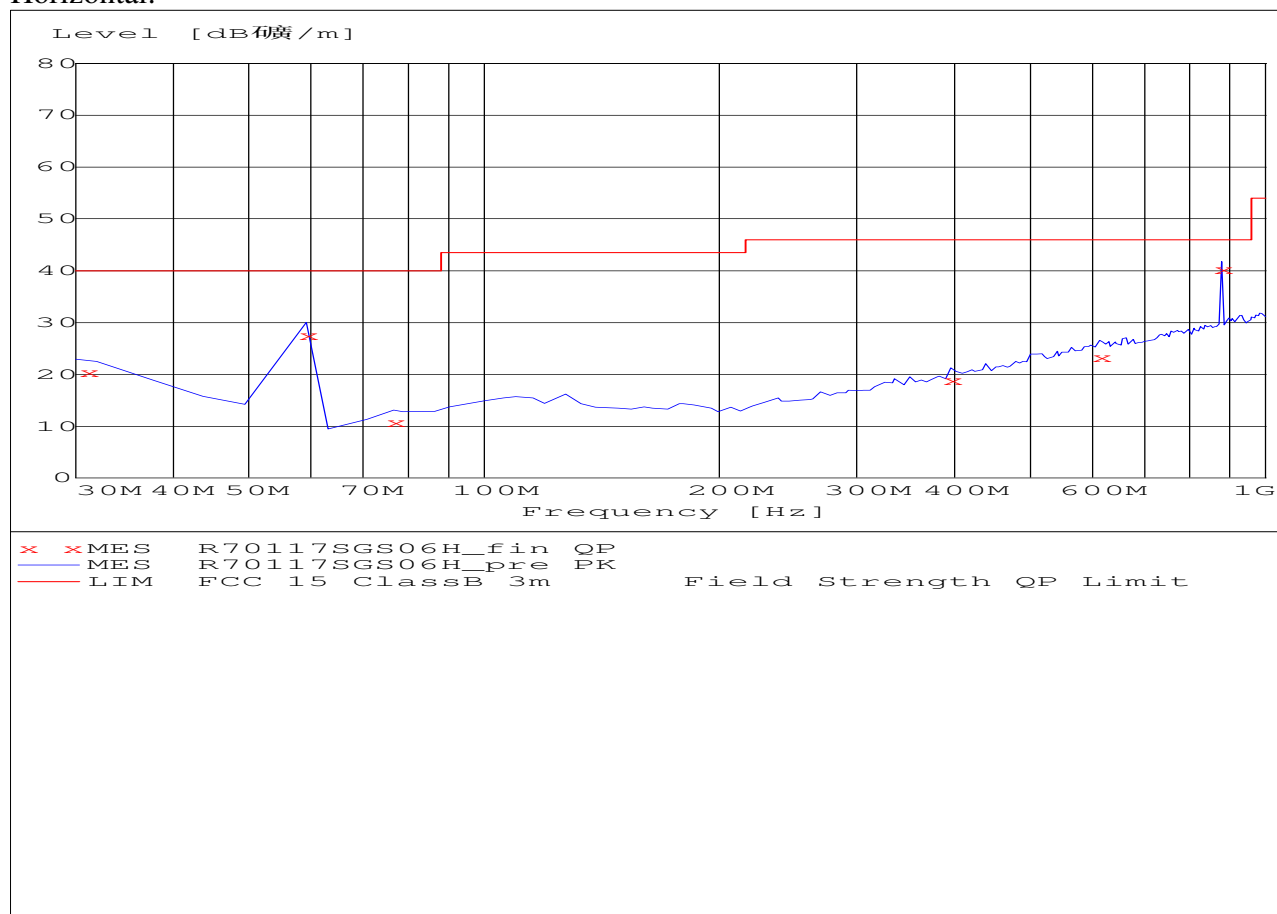
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PCS1900 dedicated: (test with the adapter of power supply 03)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
31.047365	20.34	100.0	90.00	HORIZONTAL	40.00	19.66
59.158317	27.36	100.0	180.00	HORIZONTAL	40.00	12.64
76.653307	10.58	150.0	270.00	HORIZONTAL	40.00	29.42
395.450902	18.69	200.0	0.00	HORIZONTAL	46.00	27.31
613.166333	23.28	200.0	90.00	HORIZONTAL	46.00	22.72
877.535070	40.14	100.0	80.00	HORIZONTAL	46.00	5.86

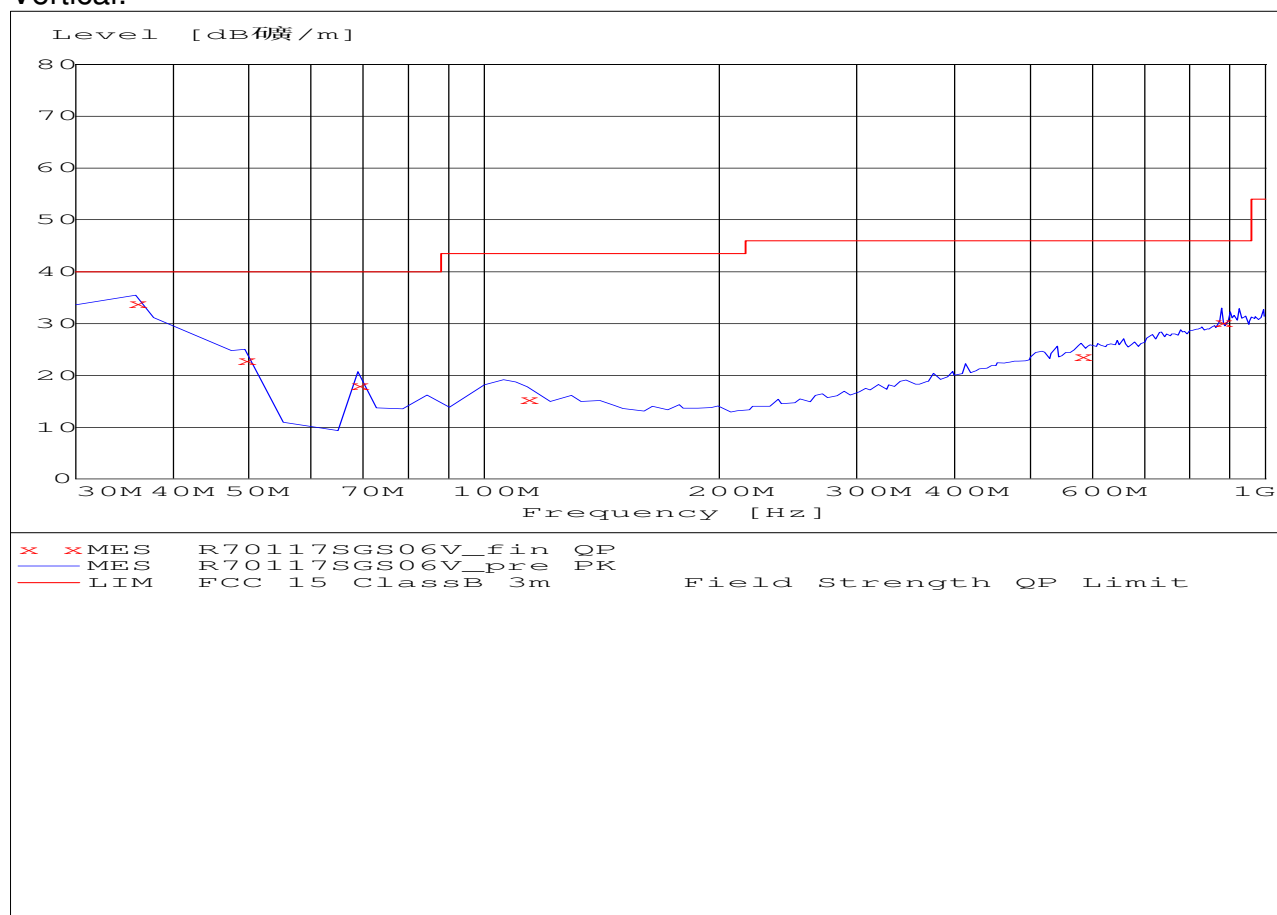
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
35.831663	33.86	100.0	100.00	VERTICAL	40.00	6.14
49.438878	22.74	200.0	60.00	VERTICAL	40.00	17.26
68.877756	18.04	100.0	180.00	VERTICAL	40.00	21.96
113.587174	15.28	150.0	270.00	VERTICAL	43.50	28.22
580.120240	23.46	200.0	0.00	VERTICAL	46.00	22.54
877.535070	30.08	100.0	90.00	VERTICAL	46.00	15.92

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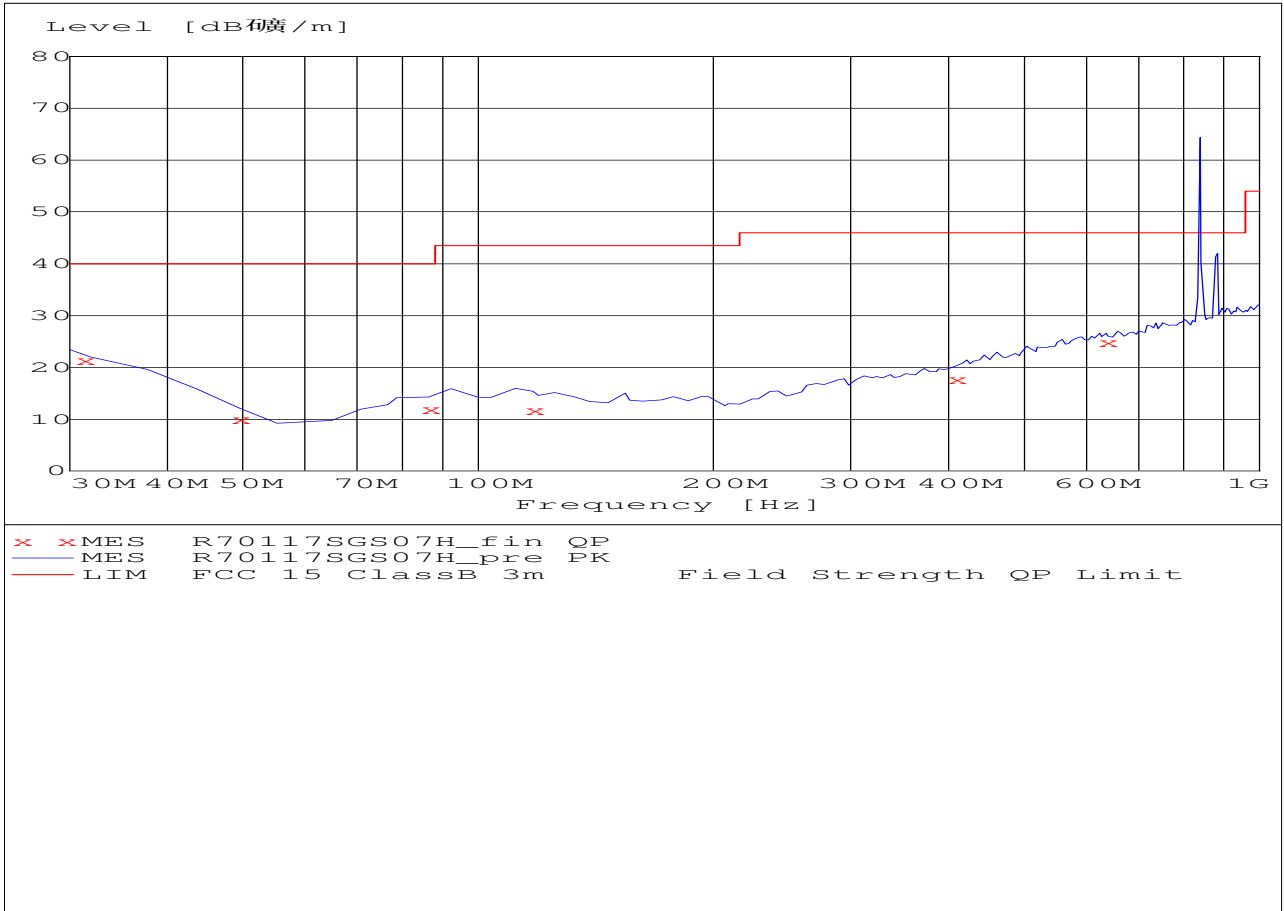
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GSM850 dedicated: (test with the headset)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
31.275756	21.23	100.0	110.00	HORIZONTAL	40.00	18.77
49.438878	9.87	100.0	180.00	HORIZONTAL	40.00	30.13
86.372745	11.85	150.0	90.00	HORIZONTAL	40.00	28.15
117.474950	11.64	200.0	0.00	HORIZONTAL	43.50	31.86
407.114228	17.58	250.0	240.00	HORIZONTAL	46.00	28.42
636.492986	24.75	300.0	0.00	HORIZONTAL	46.00	21.25

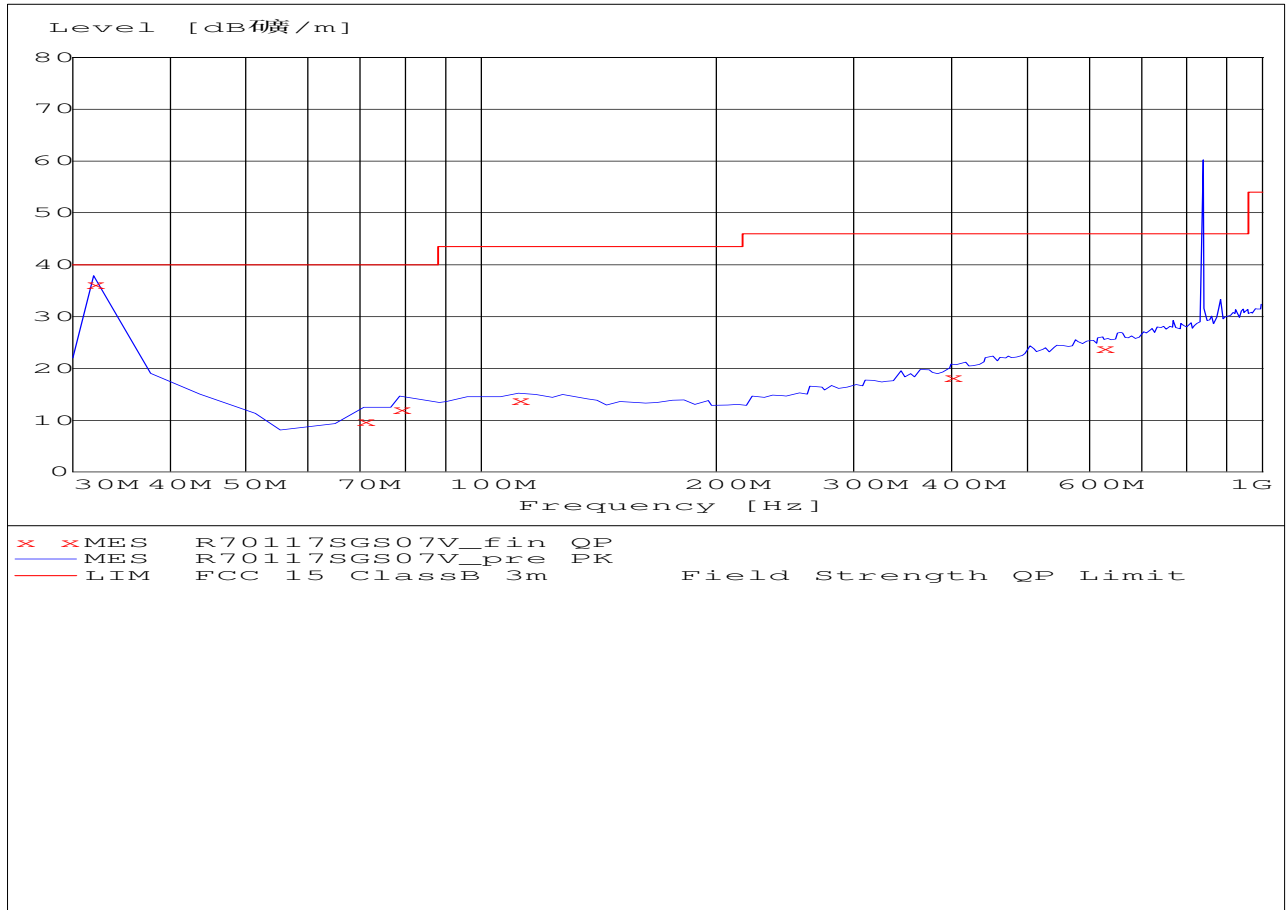
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
31.943888	36.11	100.0	110.00	VERTICAL	40.00	3.89
70.821643	9.65	100.0	180.00	VERTICAL	40.00	30.35
78.597194	12.03	200.0	0.00	VERTICAL	40.00	27.97
111.643287	13.67	150.0	90.00	VERTICAL	43.50	29.83
399.338677	18.27	200.0	270.00	VERTICAL	46.00	27.73
624.829659	23.89	300.0	90.00	VERTICAL	46.00	22.11

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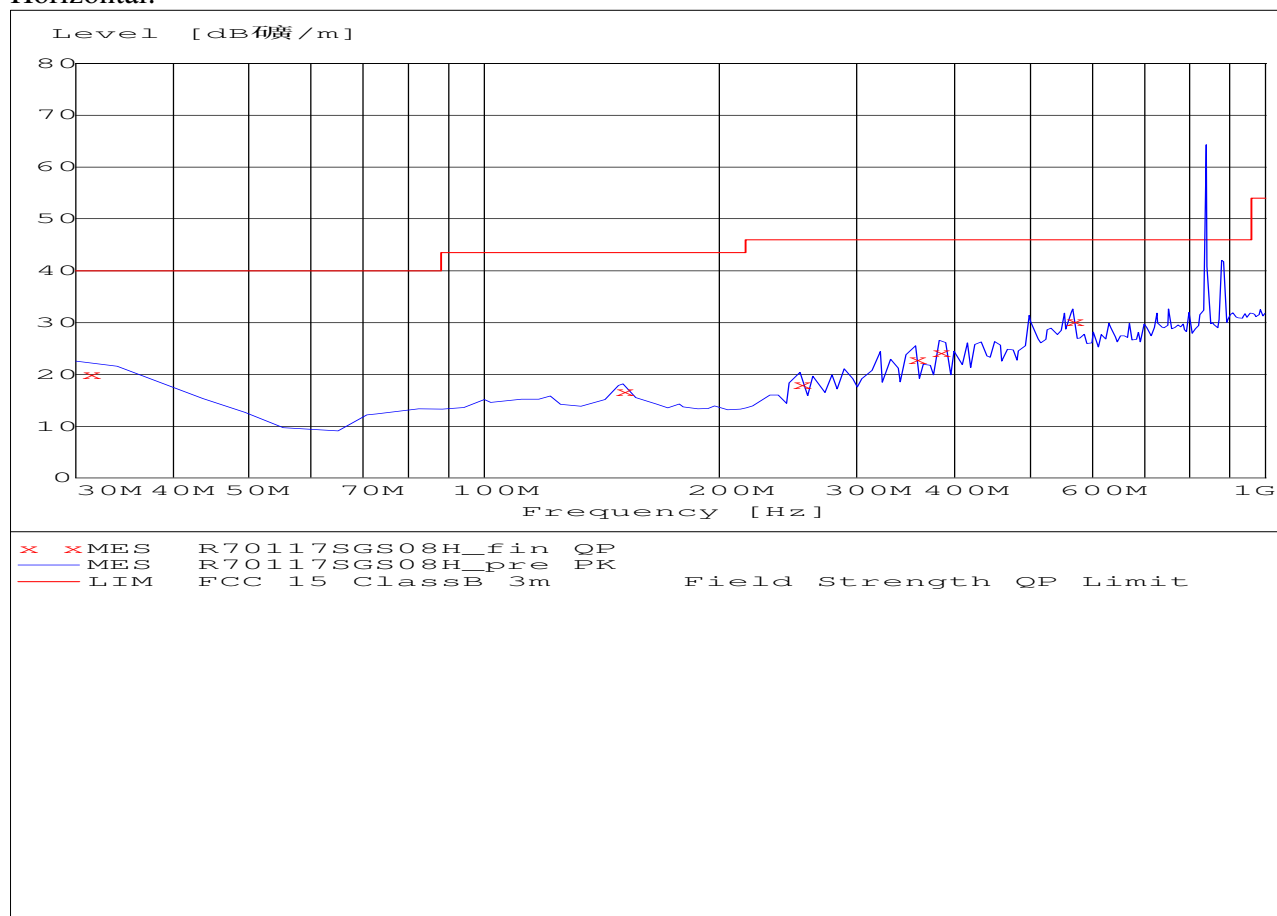
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GSM850 dedicated: (test the mobile phone with SD card and USB connected to the PC)

Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
31.276561	19.91	100.0	90.00	HORIZONTAL	40.00	20.09
150.521042	16.54	150.0	270.00	HORIZONTAL	43.50	26.96
253.547094	18.07	200.0	0.00	HORIZONTAL	46.00	27.93
356.573146	22.75	150.0	180.00	HORIZONTAL	46.00	23.25
381.843687	24.21	200.0	200.00	HORIZONTAL	46.00	21.79
566.513026	30.15	300.0	60.00	HORIZONTAL	46.00	15.85

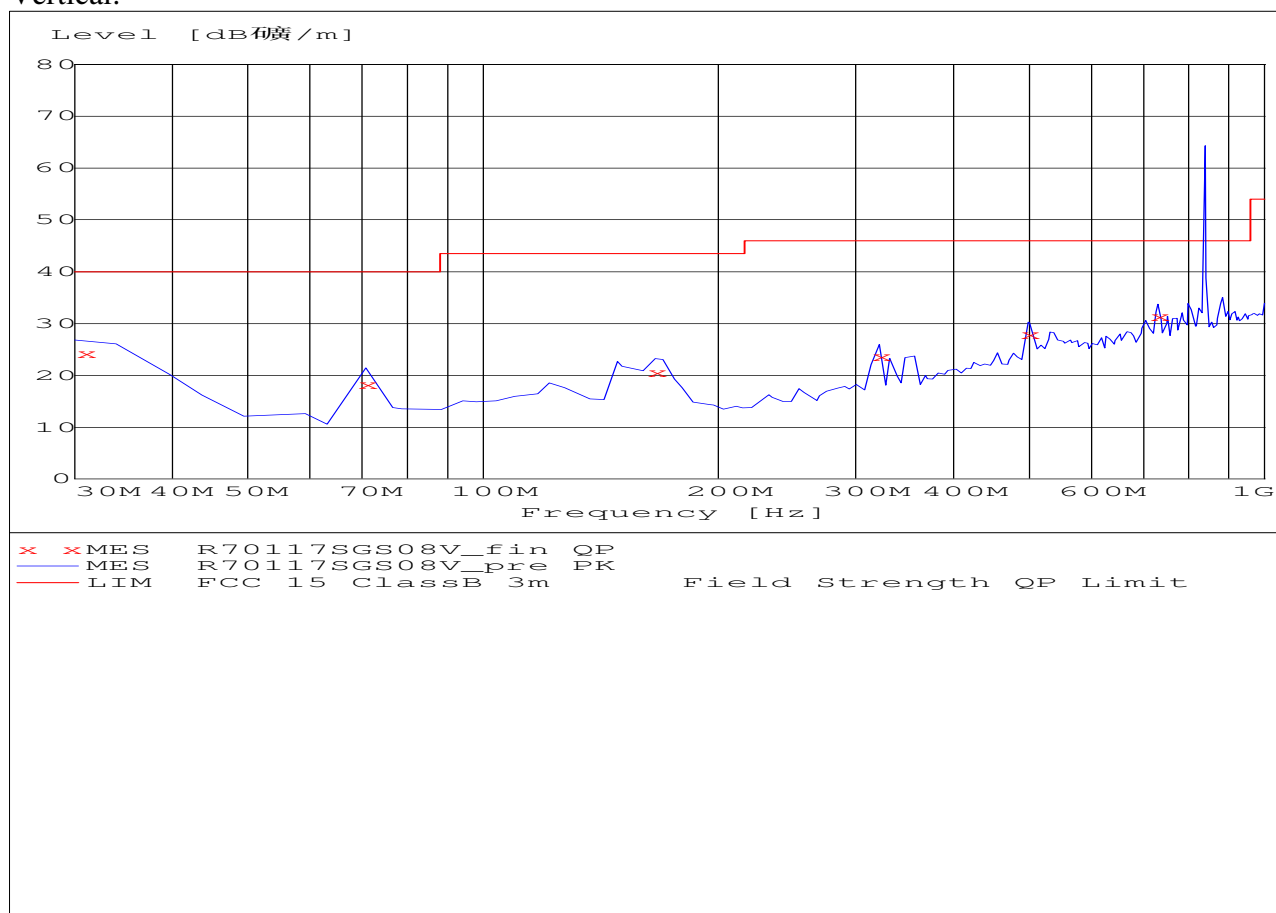
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
30.852427	24.18	100.0	90.00	VERTICAL	40.00	15.82
70.821643	18.24	150.0	180.00	VERTICAL	40.00	21.76
166.072144	20.45	100.0	270.00	VERTICAL	43.50	23.05
321.583166	23.46	200.0	0.00	VERTICAL	46.00	22.54
498.476954	27.86	200.0	200.00	VERTICAL	46.00	18.14
729.799599	31.28	300.0	120.00	VERTICAL	46.00	14.72

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6.2 Conducted Emissions, 150kHz to 30MHz

Test Requirement:	CFR 47 part 15
Test Method:	ANSI C63.4
Test Date:	N/A
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

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.

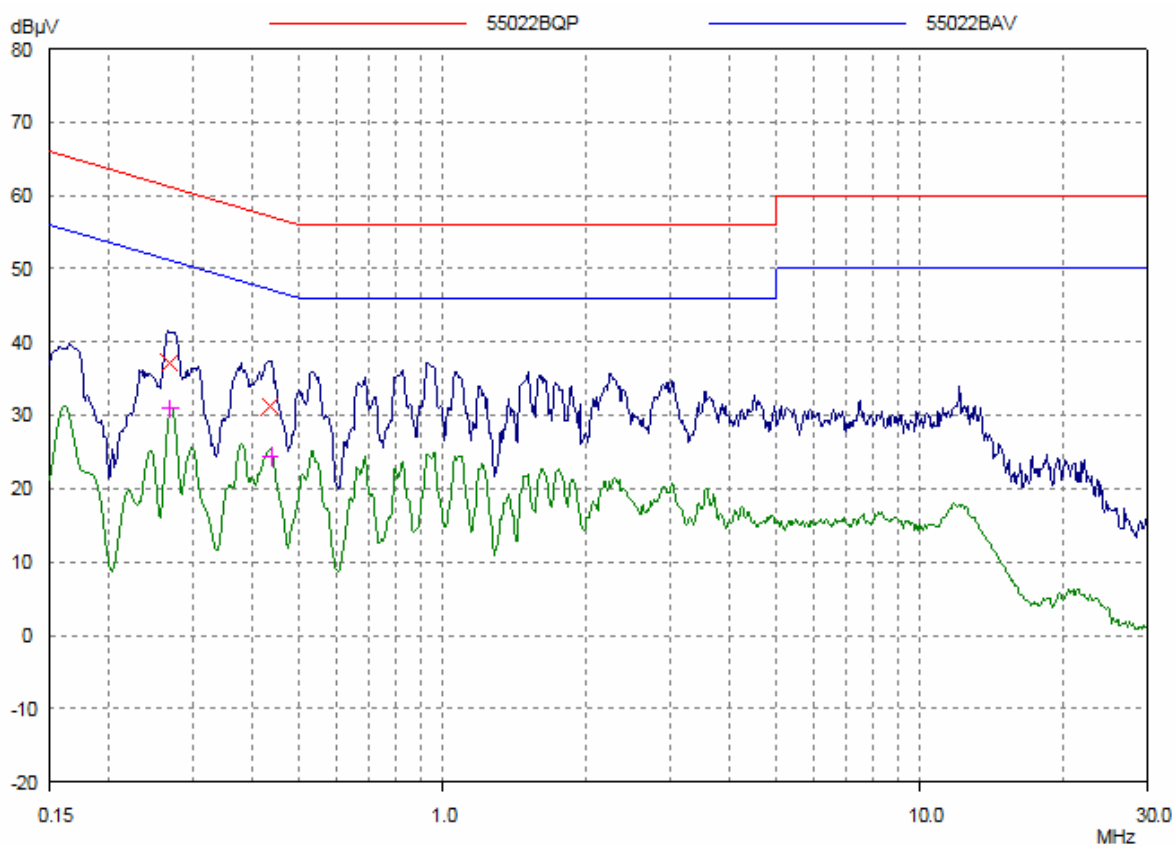
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Power supply 01
GSM850 dedicated, charging with adaptor:
L line:



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

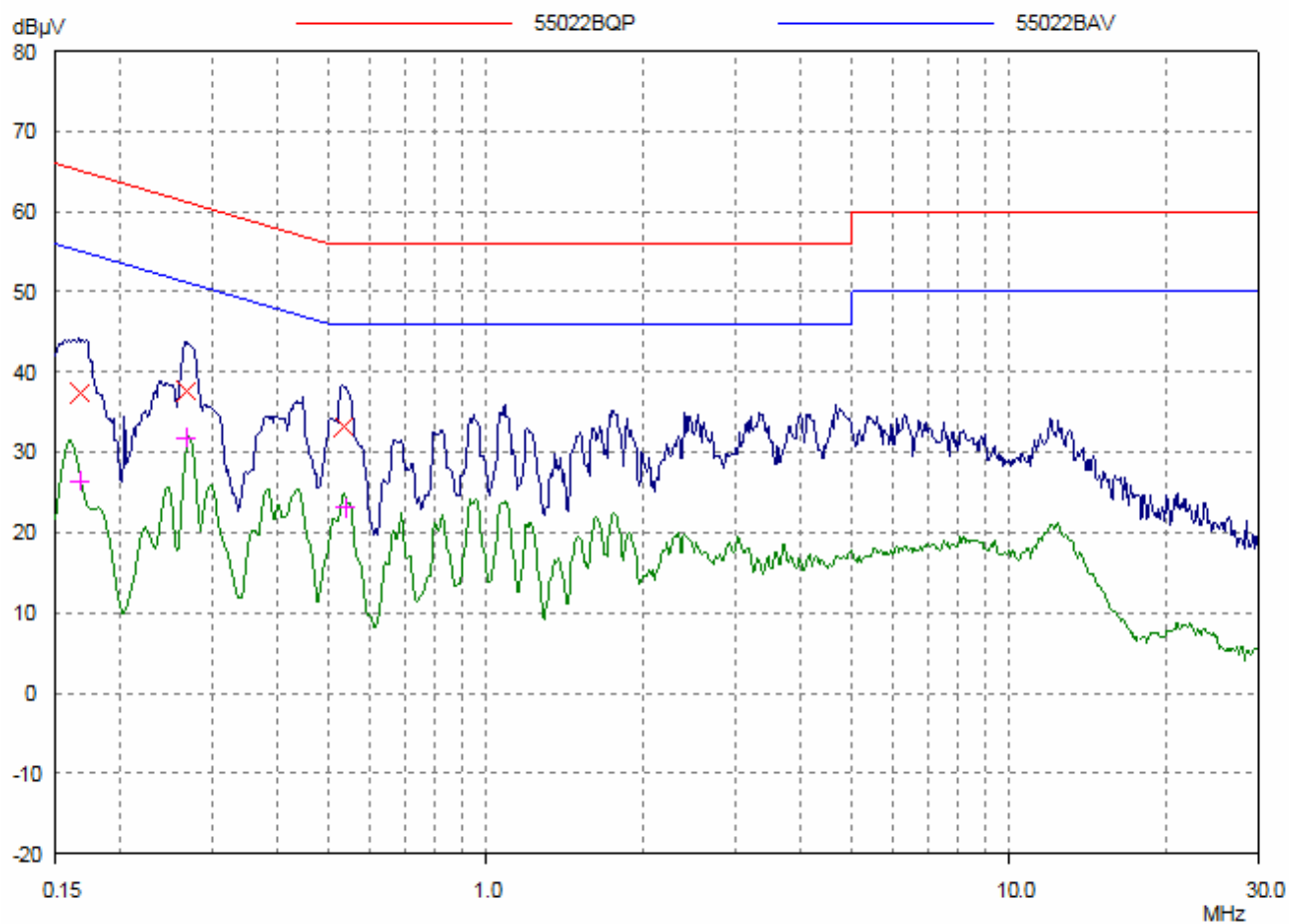
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N line:



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

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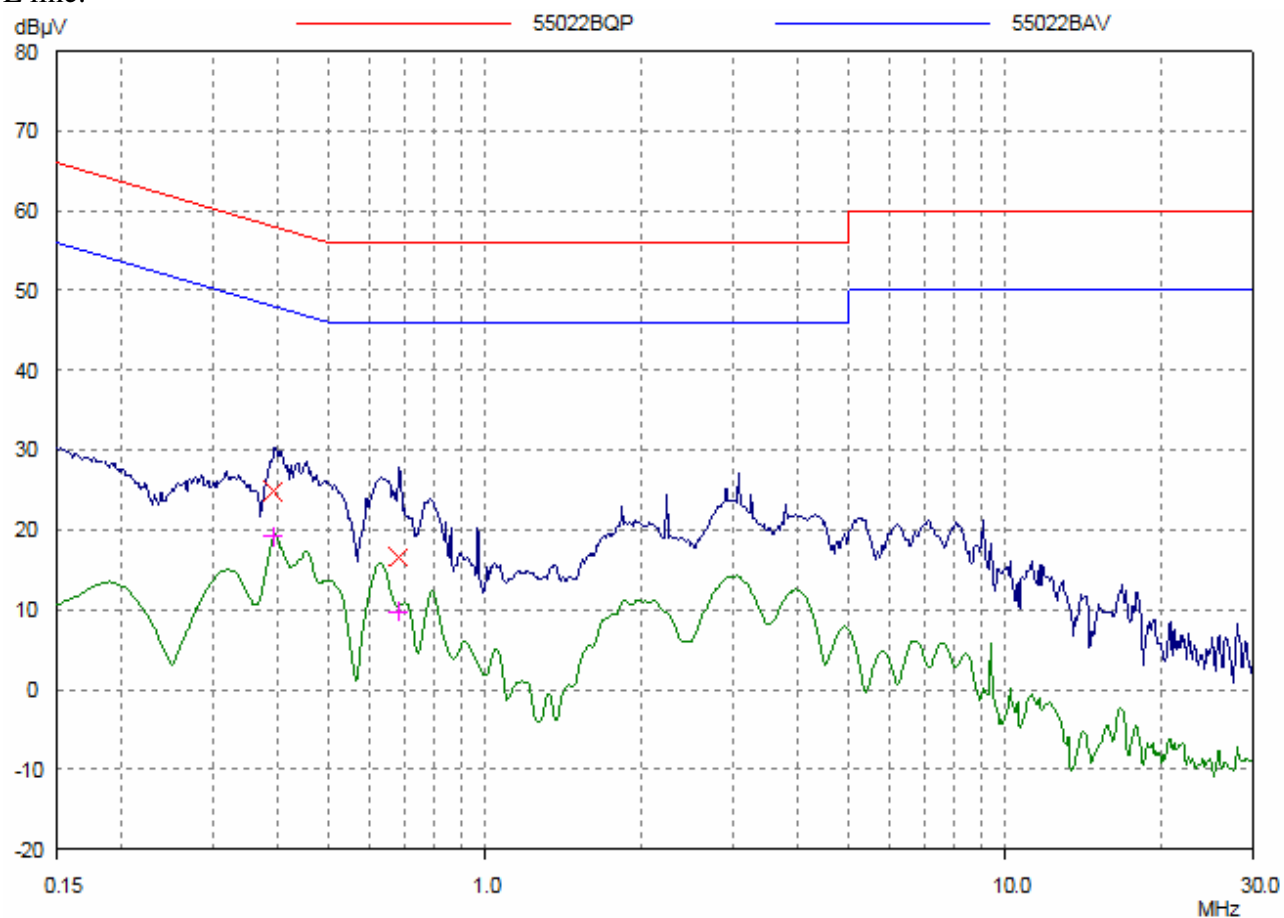
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PCS1900 dedicated, charging with adaptor:

L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.39026	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

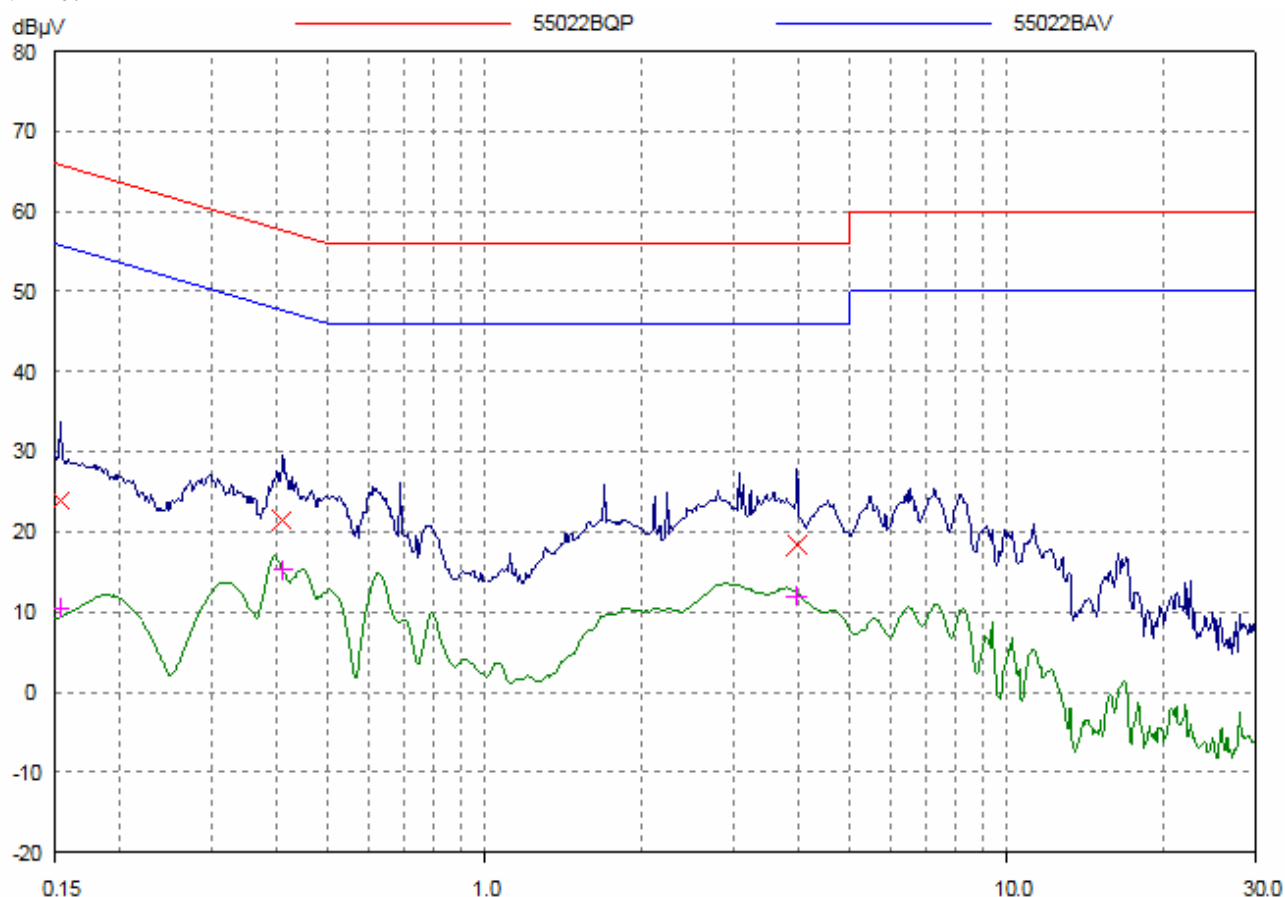
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N line:



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

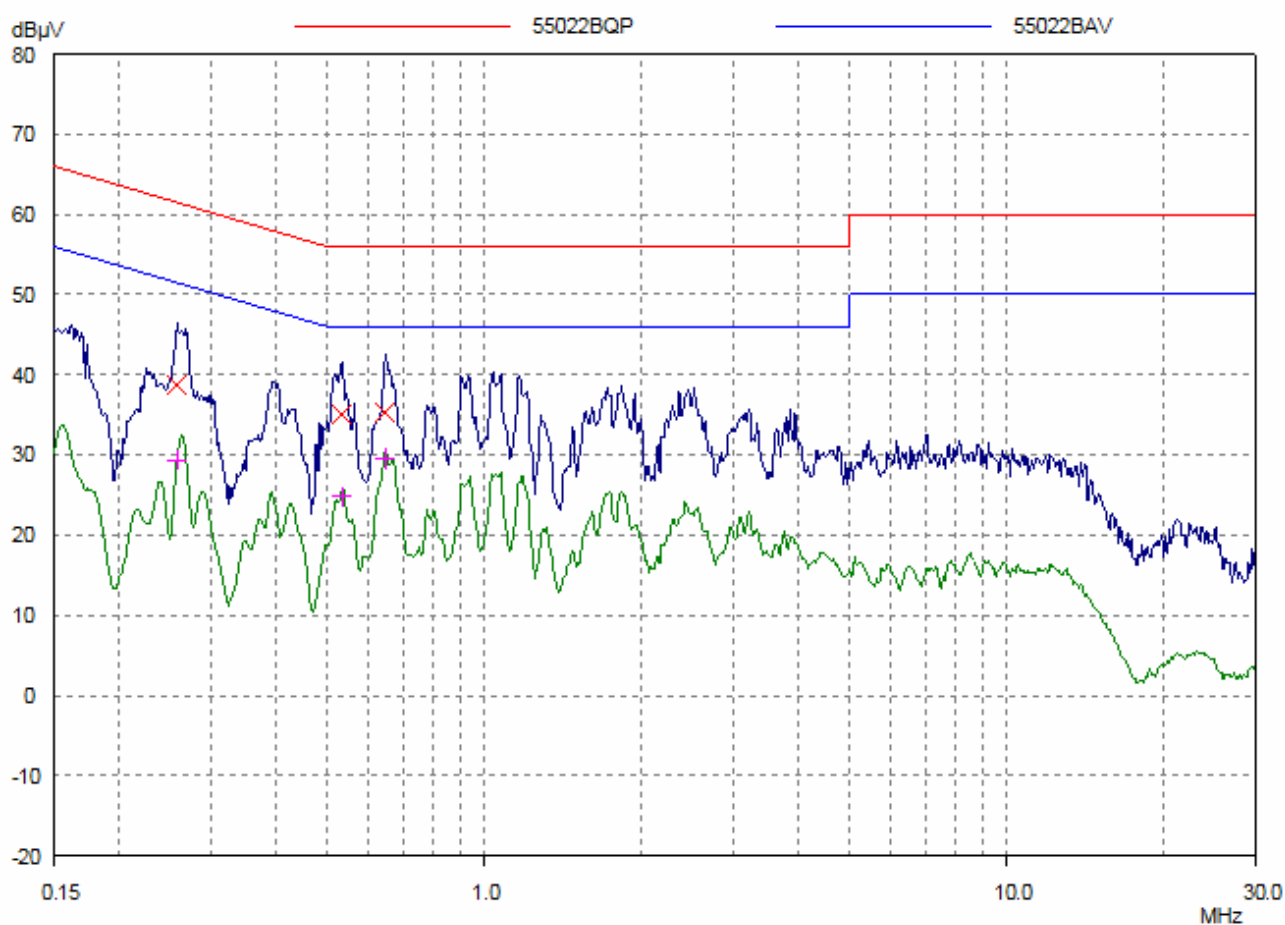
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Power supply 02
GSM850 dedicated, charging with adaptor:
L line:



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

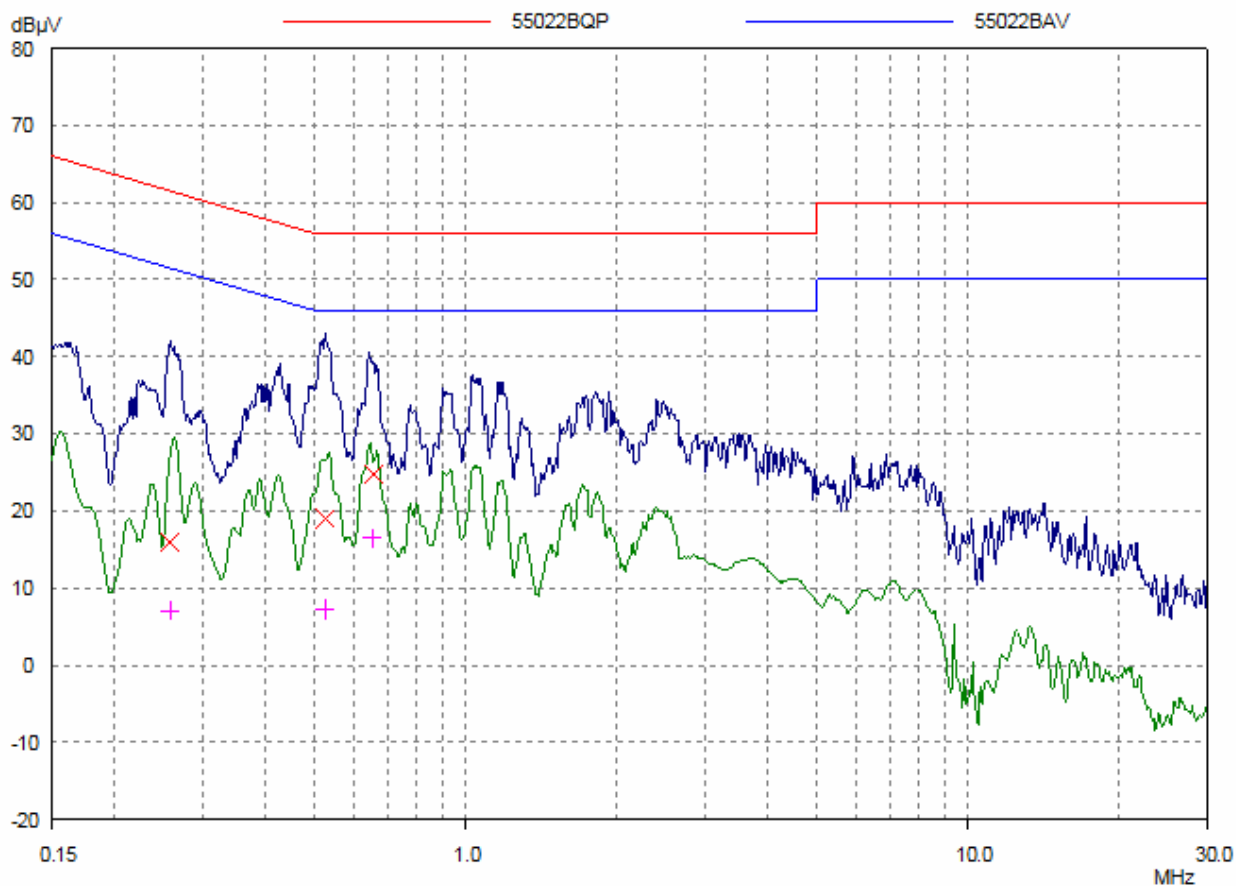
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N line:



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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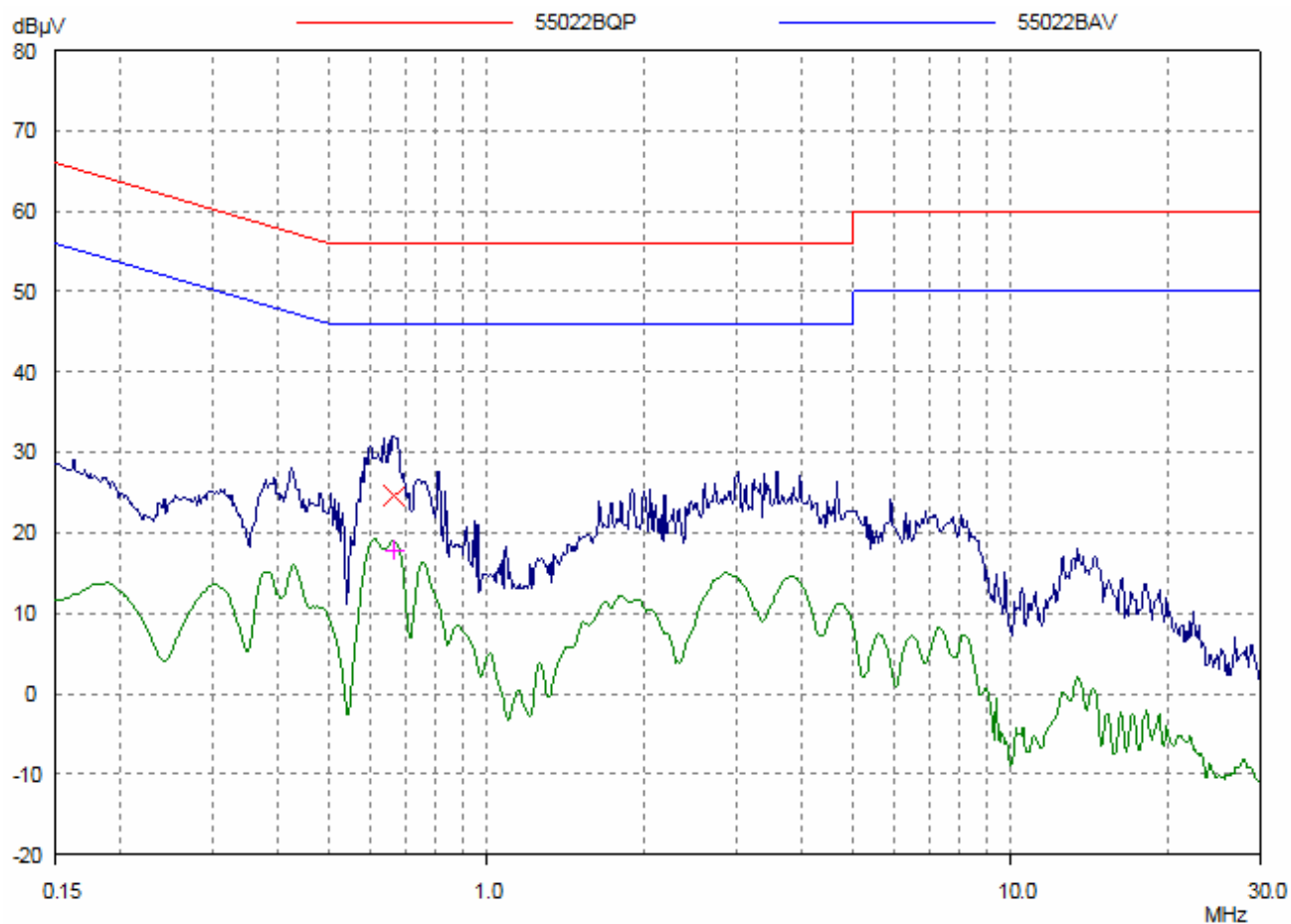
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PCS1900 dedicated, charging with adaptor:

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

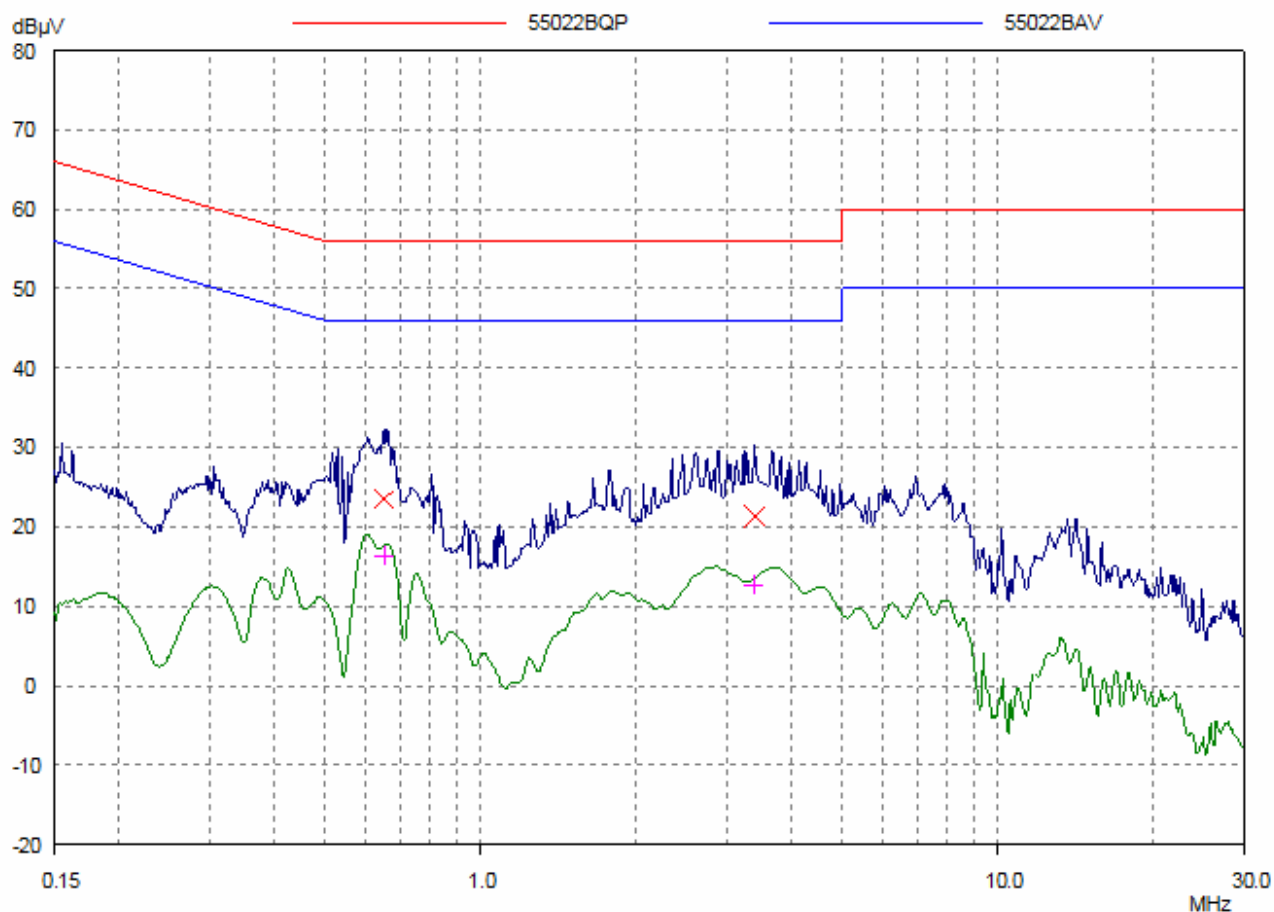
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N line:



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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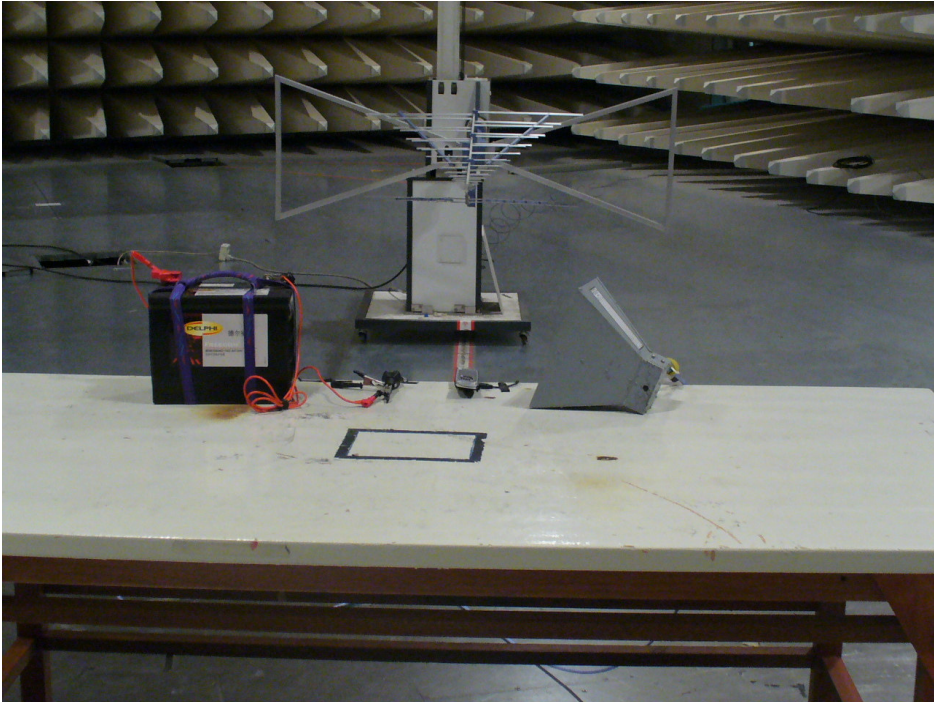
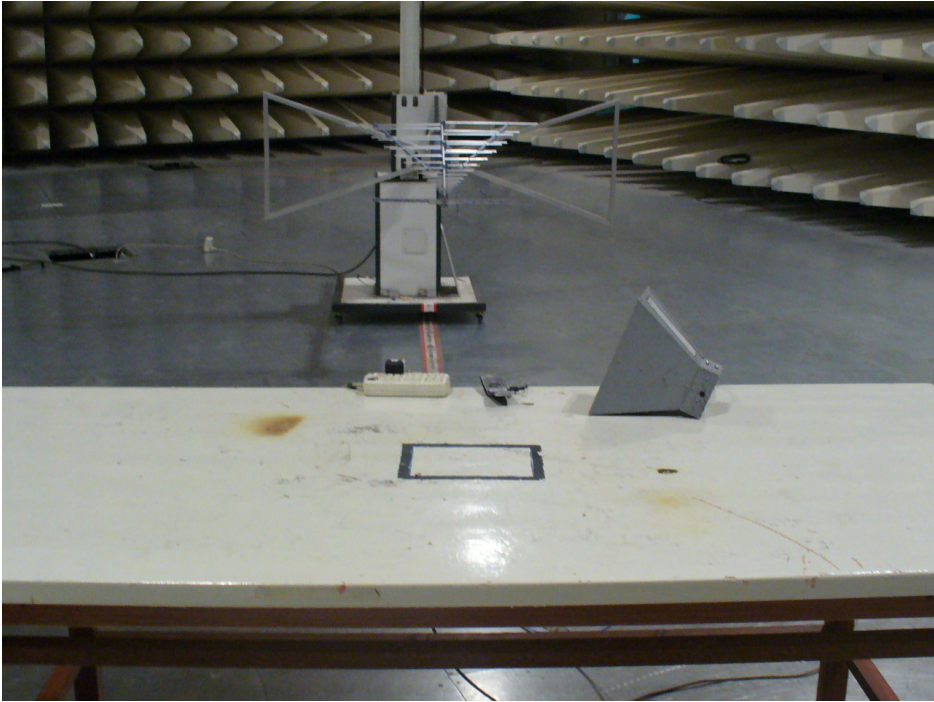
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7 Photographs

7.1 Radiated Emission Test Setup

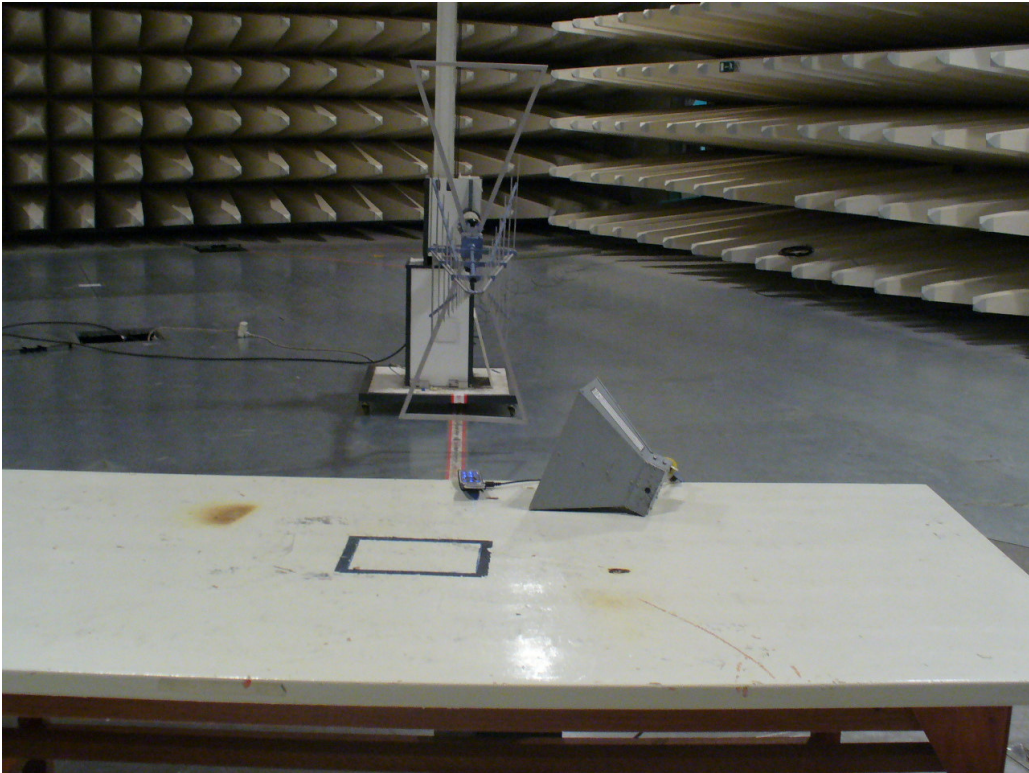
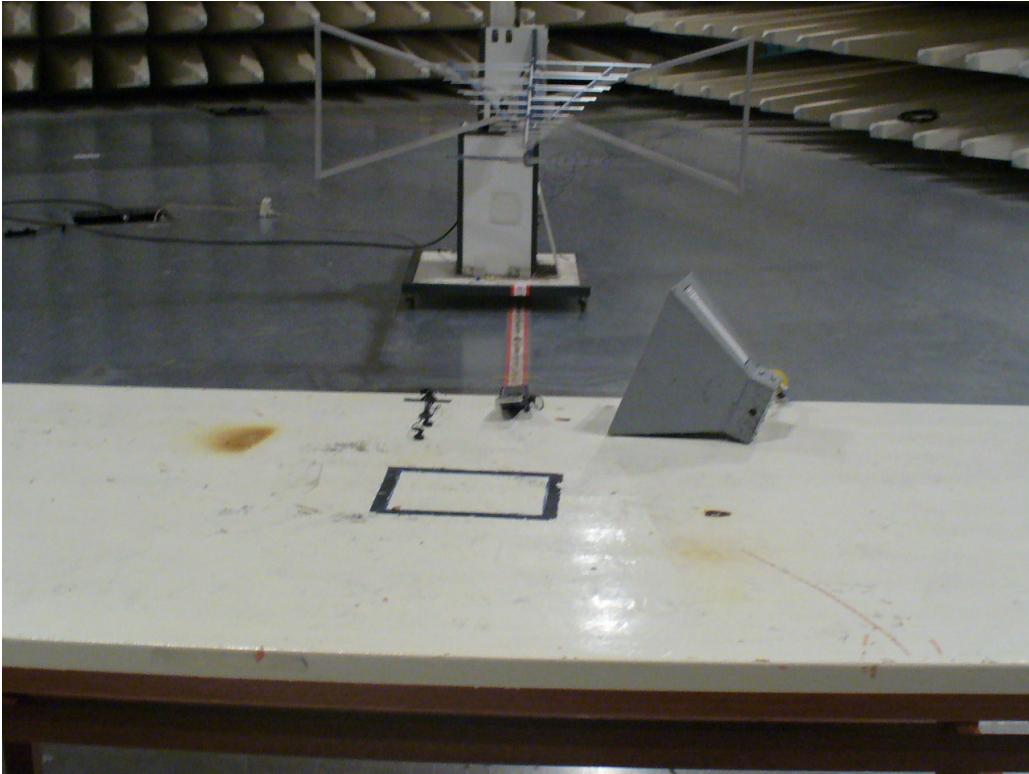


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7.2 EUT Constructional Details



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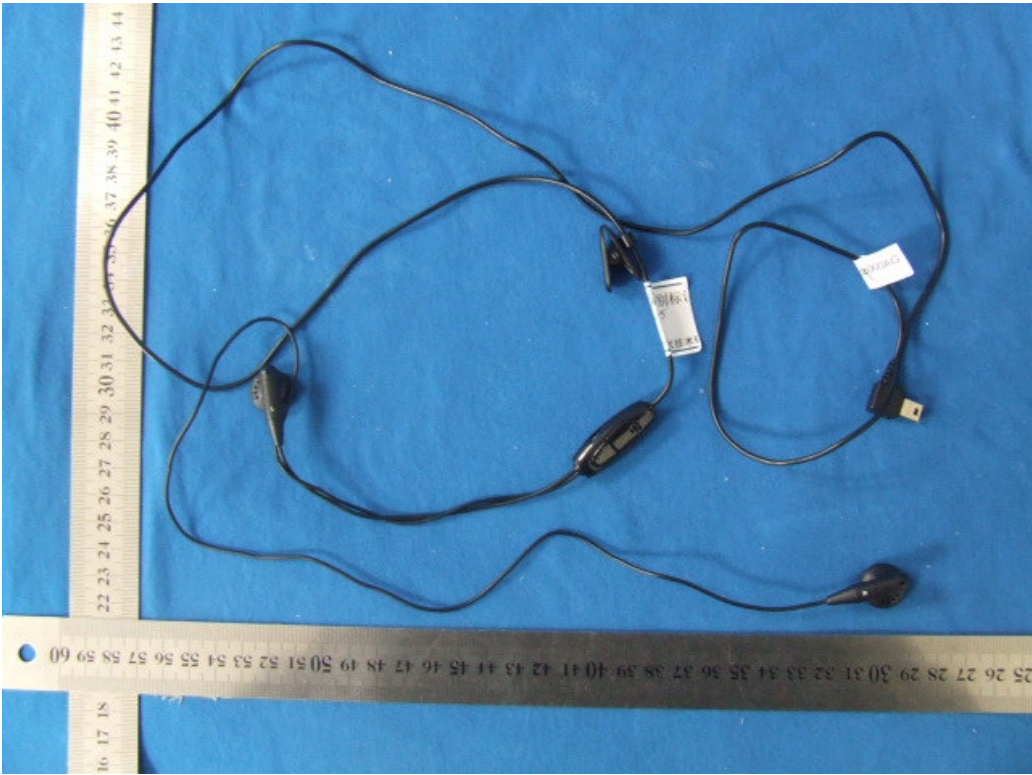


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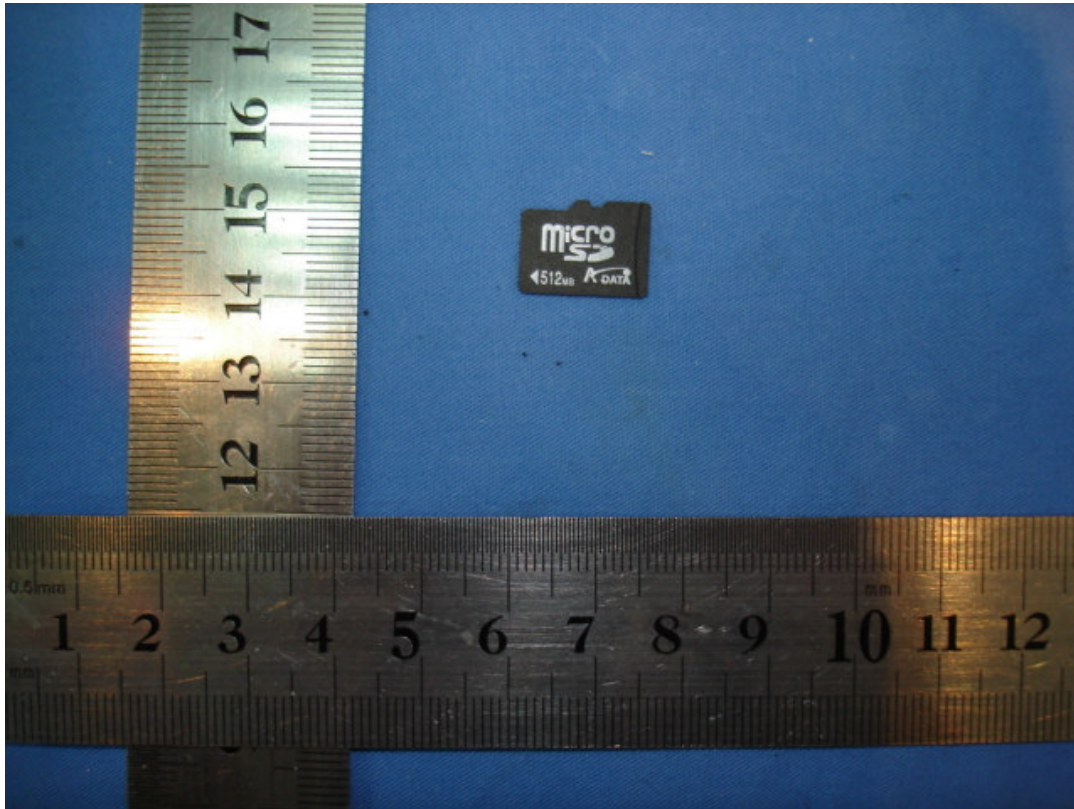


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