

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

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Report No.: SHEMO080200003IT

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EMC TEST REPORT

Application No.: SHEMO080200003IT

Applicant: ZTE CORPORATION

Equipment Under Test (EUT):

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

EUT Name: Mobile Cam

Model Name: MF68

Market Name: MF68

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

Date of Receipt: February 4, 2008

Date of Test: February 5, 2008 to February 18, 2008

Date of Issue: February 19, 2008

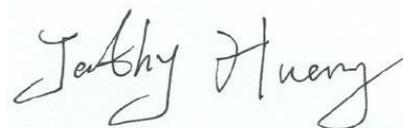
Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



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



Jathy Huang
E&E EMC Engineer
SGS-CSTC Co., Ltd

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

All test results in this report can be traceable to National or International Standards.

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2 Test Summary

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

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4 General Information

4.1 Client Information

Applicant: ZTE CORPORATION
Address of Applicant: ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan
District, Shenzhen, Guangdong, P.R. China 518057

4.2 General Description of E.U.T.

EUT Name: MOBILE CAM
Model No.: MF68
Marketing Name: MF68
Frequency Bands WCDMA850/WCDMA1900/WCDMA2100
Testing Bands WCDMA850/WCDMA1900

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 were 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

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						
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	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:	February 5, 2008 to February 18, 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: 22.0°C Humidity: 55 % RH Atmospheric Pressure: 1014 mbar

EUT Operation: EUT allocated WCDMA850, WCDMA1900 connected to PC with USB cable..

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 on emissions test data is in Pt.22/24 test report

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.

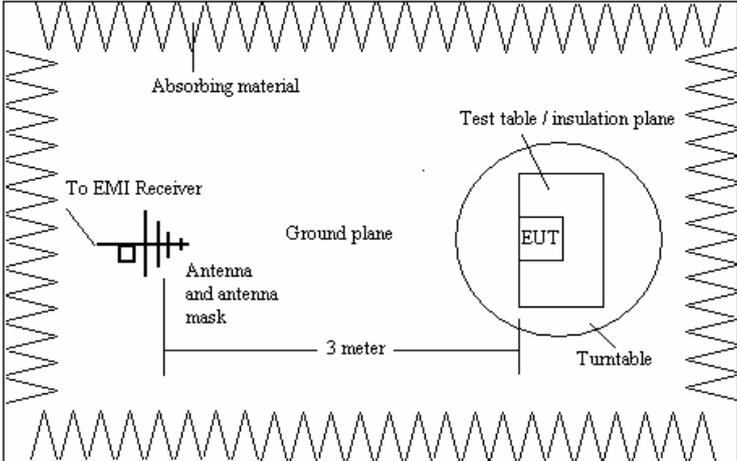
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6.1.2 Test setup:



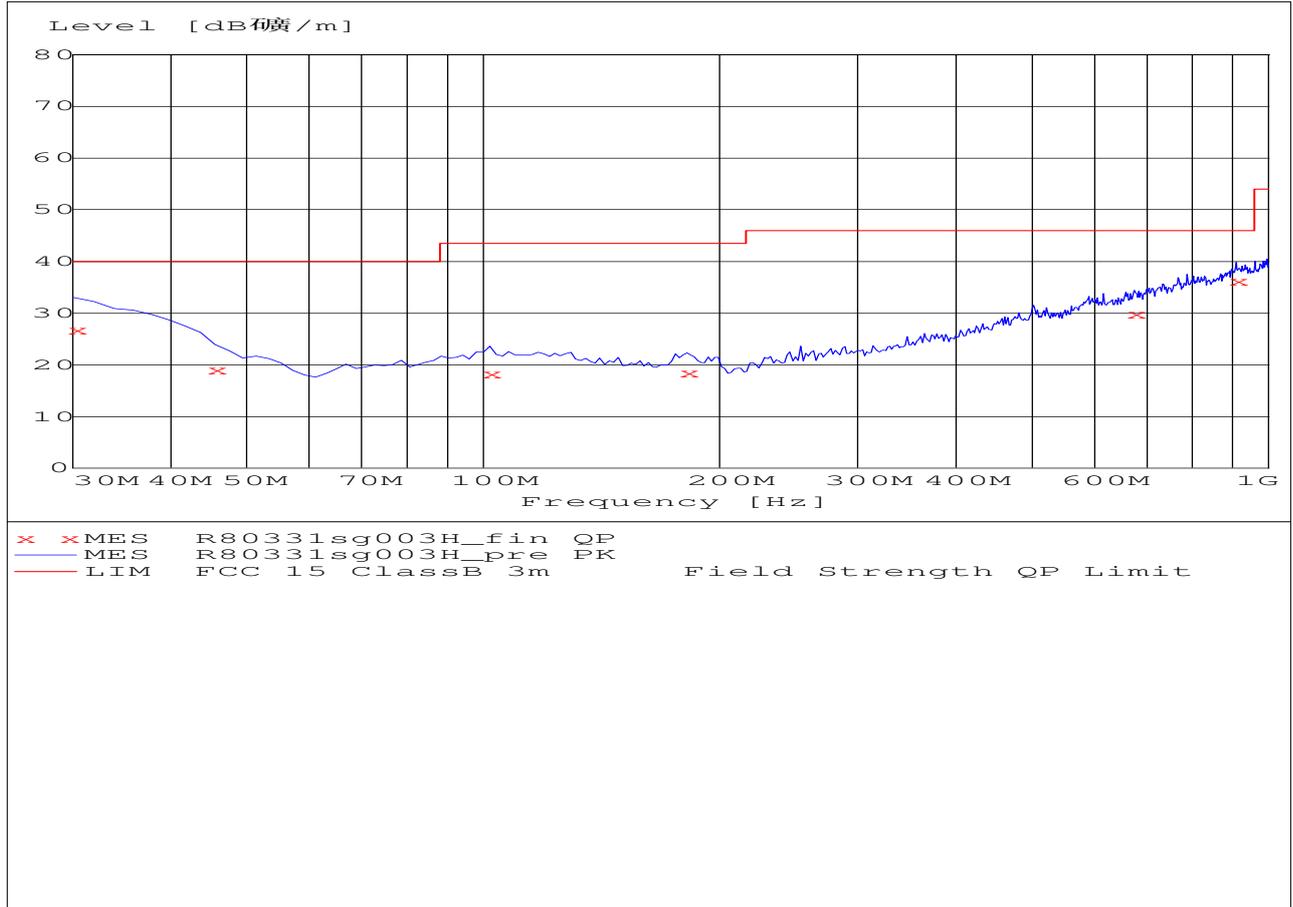
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WCDMA 1900 Idle mode:
Horizontal:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
30.200177	26.74	200.0	180.00	HORIZONTAL	40.00	13.26
45.551102	18.88	400.0	0.00	HORIZONTAL	40.00	21.12
101.923848	18.24	200.0	90.00	HORIZONTAL	43.52	25.28
181.623246	18.32	100.0	90.00	HORIZONTAL	43.52	25.20
675.370741	29.85	200.0	90.00	HORIZONTAL	46.02	16.17
910.581162	36.23	200.0	0.00	HORIZONTAL	46.02	9.79

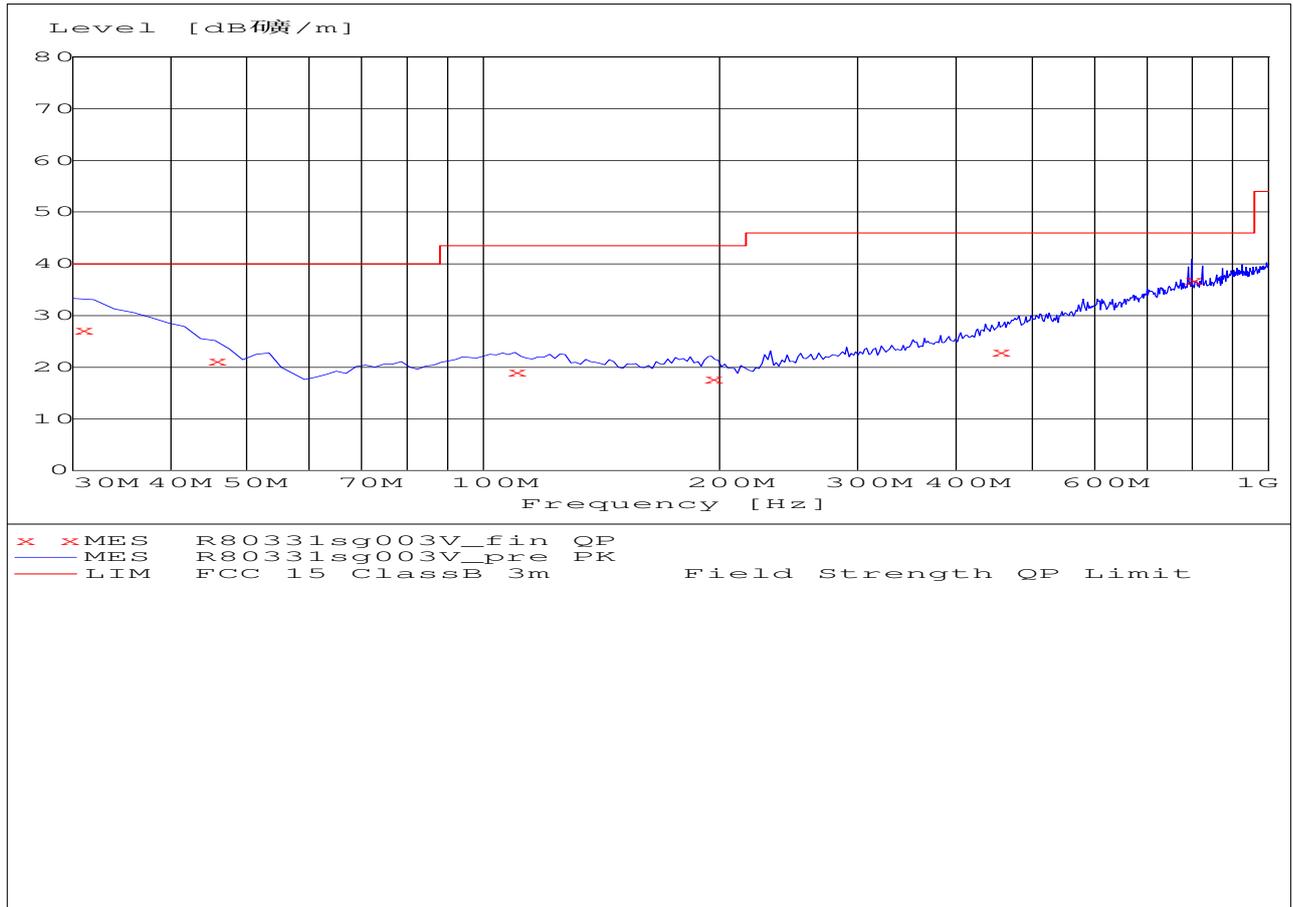
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
30.778571	27.21	400.0	180.00	VERTICAL	40.00	12.79
45.551102	21.11	200.0	0.00	VERTICAL	40.00	18.89
109.699399	18.88	200.0	270.00	VERTICAL	43.52	24.64
195.230461	17.76	300.0	0.00	VERTICAL	43.52	25.76
453.767535	22.96	300.0	90.00	VERTICAL	46.02	23.06
797.835671	36.67	300.0	270.00	VERTICAL	46.02	9.35

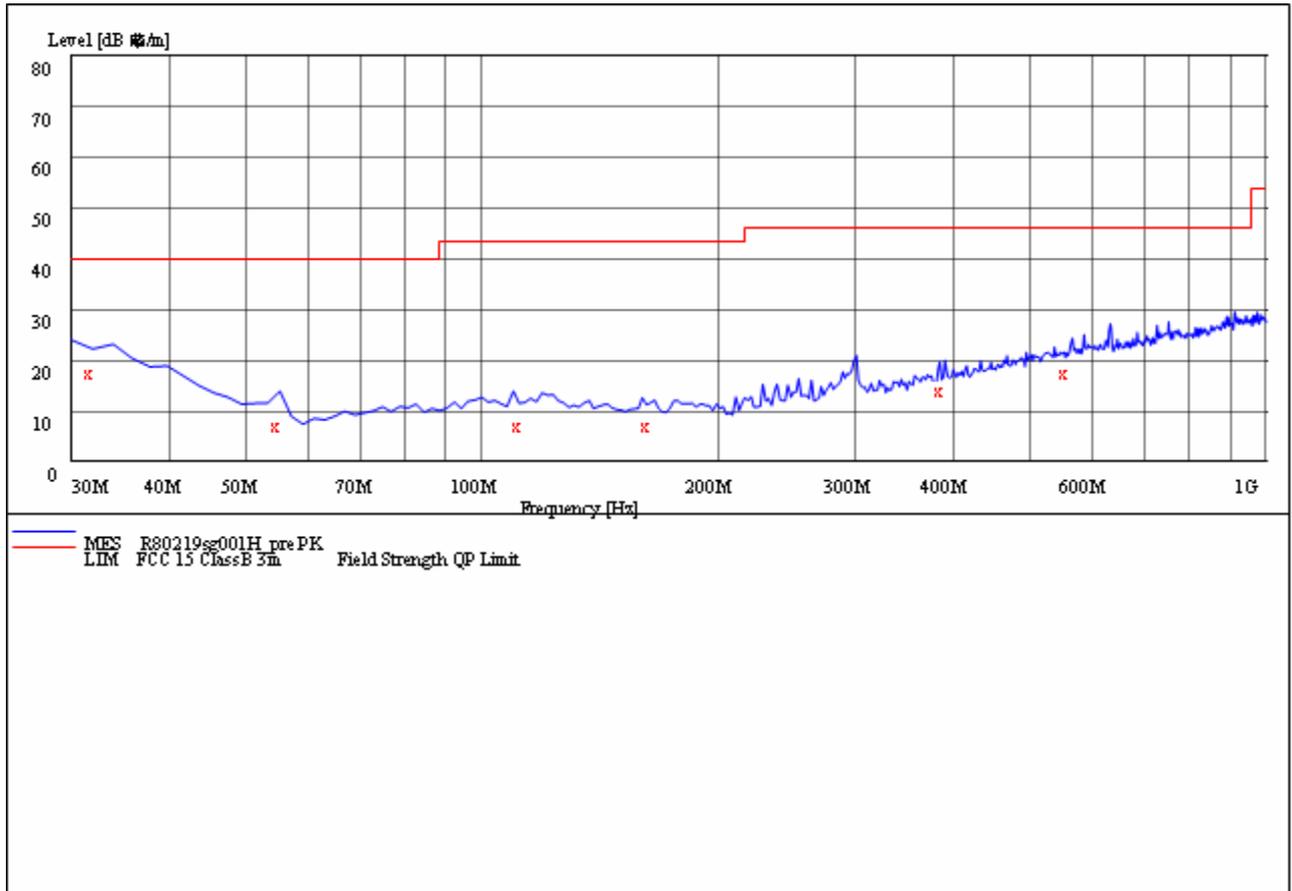
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WCDMA 850 Idle mode:
Horizontal:



Frequency MHz	Level BμV/m	Height cm	Azimuth deg	Polarisation	Limit dBμV/m	Margin dB
32.370735	28.18	400.0	00.00	HORIZONTAL	40.00	11.82
54.831422	9.13	400.0	180.00	HORIZONTAL	40.00	30.87
120.423659	9.25	200.0	180.00	HORIZONTAL	43.52	34.39
178.266871	9.30	300.0	270.00	HORIZONTAL	43.52	34.22
388.235647	14.45	200.0	270.00	HORIZONTAL	46.02	31.57
545.571142	19.47	200.0	90.00	HORIZONTAL	46.02	26.55

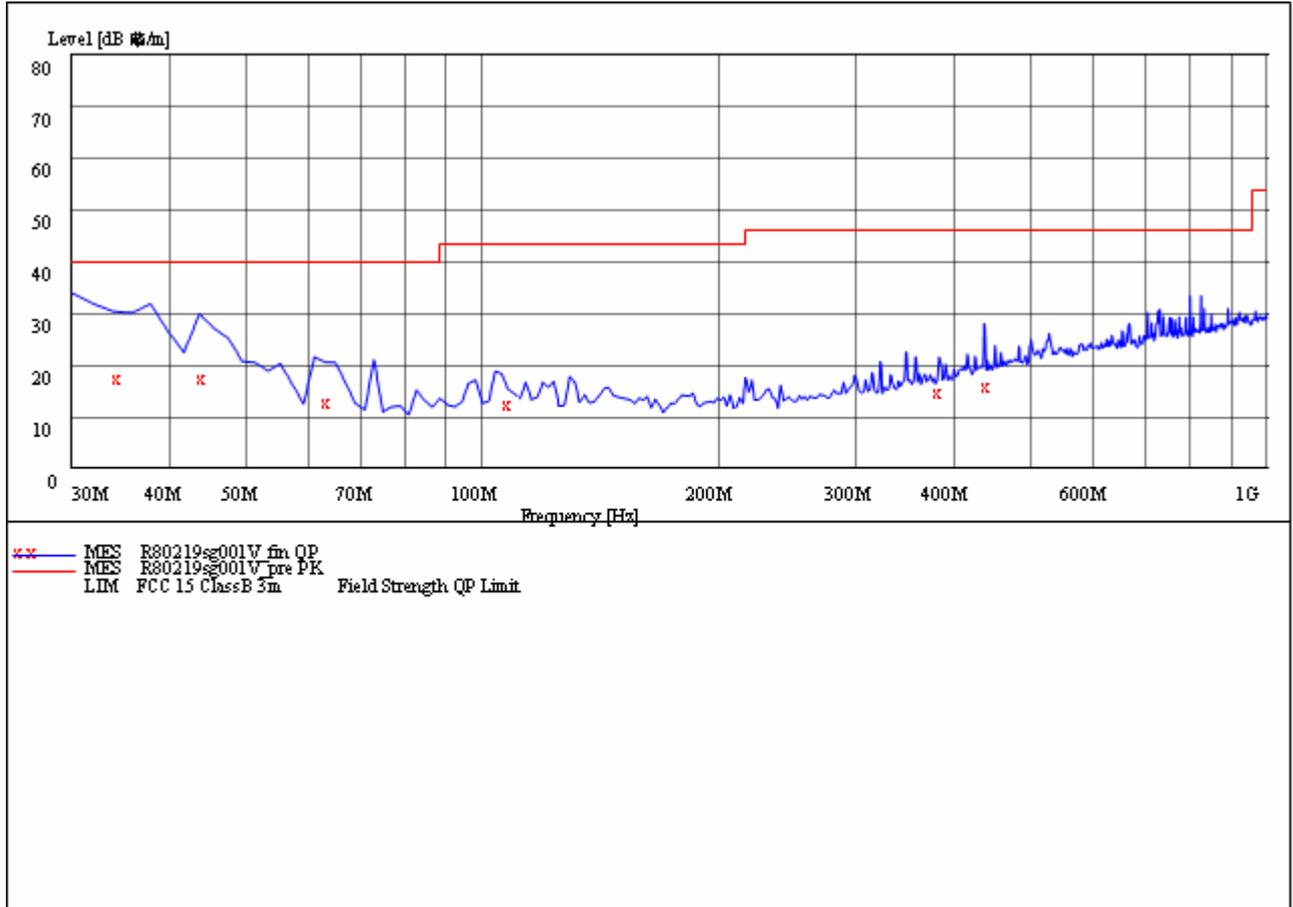
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
34.709419	19.97	0.0	0.00	VERTICAL	40.00	20.03
44.811623	18.53	400.0	90.00	VERTICAL	40.00	21.47
63.082164	13.69	400.0	0.00	VERTICAL	40.00	26.31
115.384770	13.68	400.0	180.00	VERTICAL	43.52	29.84
392.478966	16.62	300.0	270.00	VERTICAL	46.02	29.40
443.236584	17.36	200.0	0.00	VERTICAL	46.02	28.66

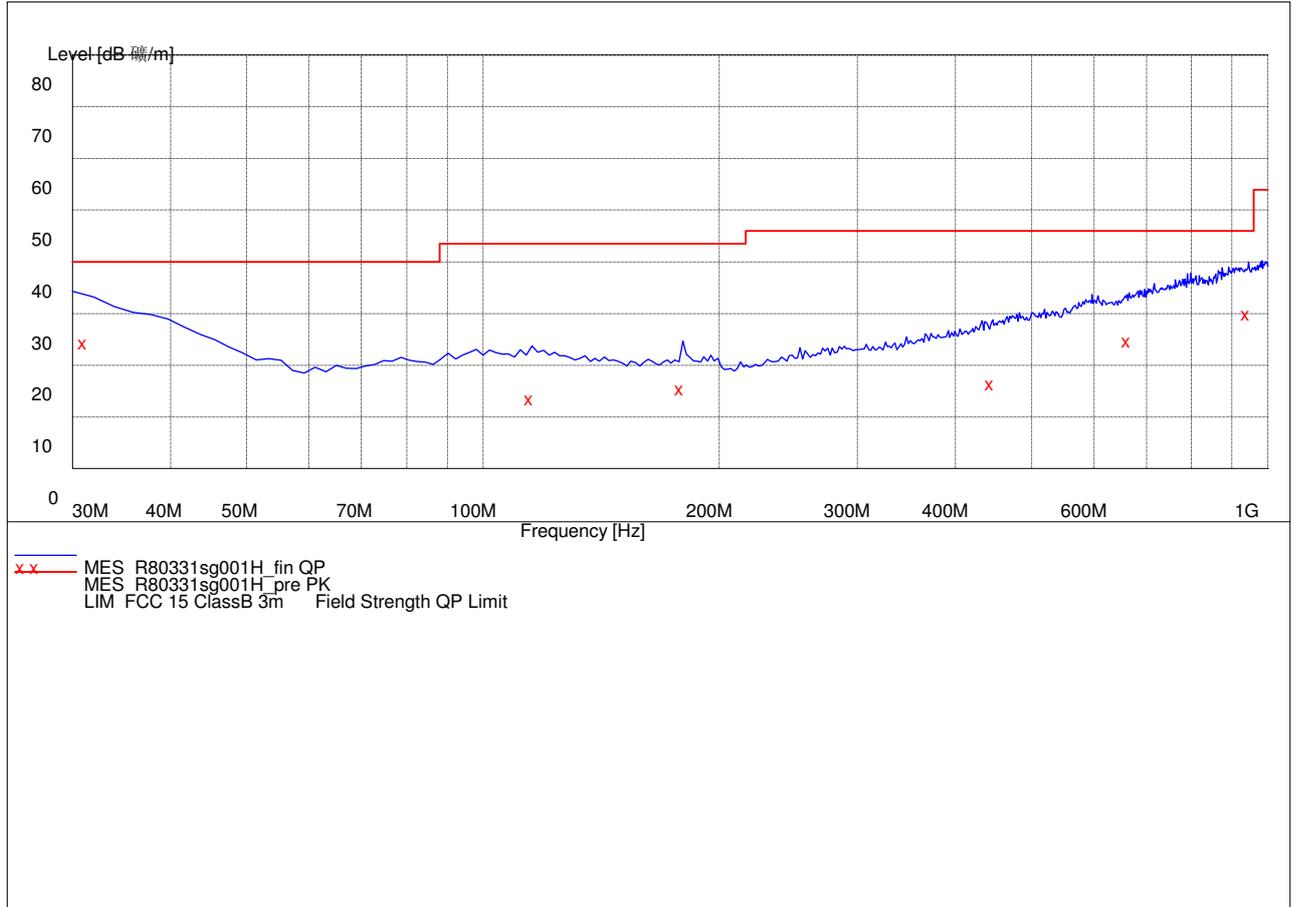
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WCDMA1900 dedicated:
Horizontal:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
31.140635	29.98	400.0	90.00	HORIZONTAL	40.00	10.02
115.531062	19.10	400.0	180.00	HORIZONTAL	43.52	24.42
179.679359	20.96	200.0	180.00	HORIZONTAL	43.52	22.56
445.991984	22.03	300.0	270.00	HORIZONTAL	46.02	23.99
665.651303	30.38	200.0	270.00	HORIZONTAL	46.02	15.64
945.571142	35.47	200.0	180.00	HORIZONTAL	46.02	10.55

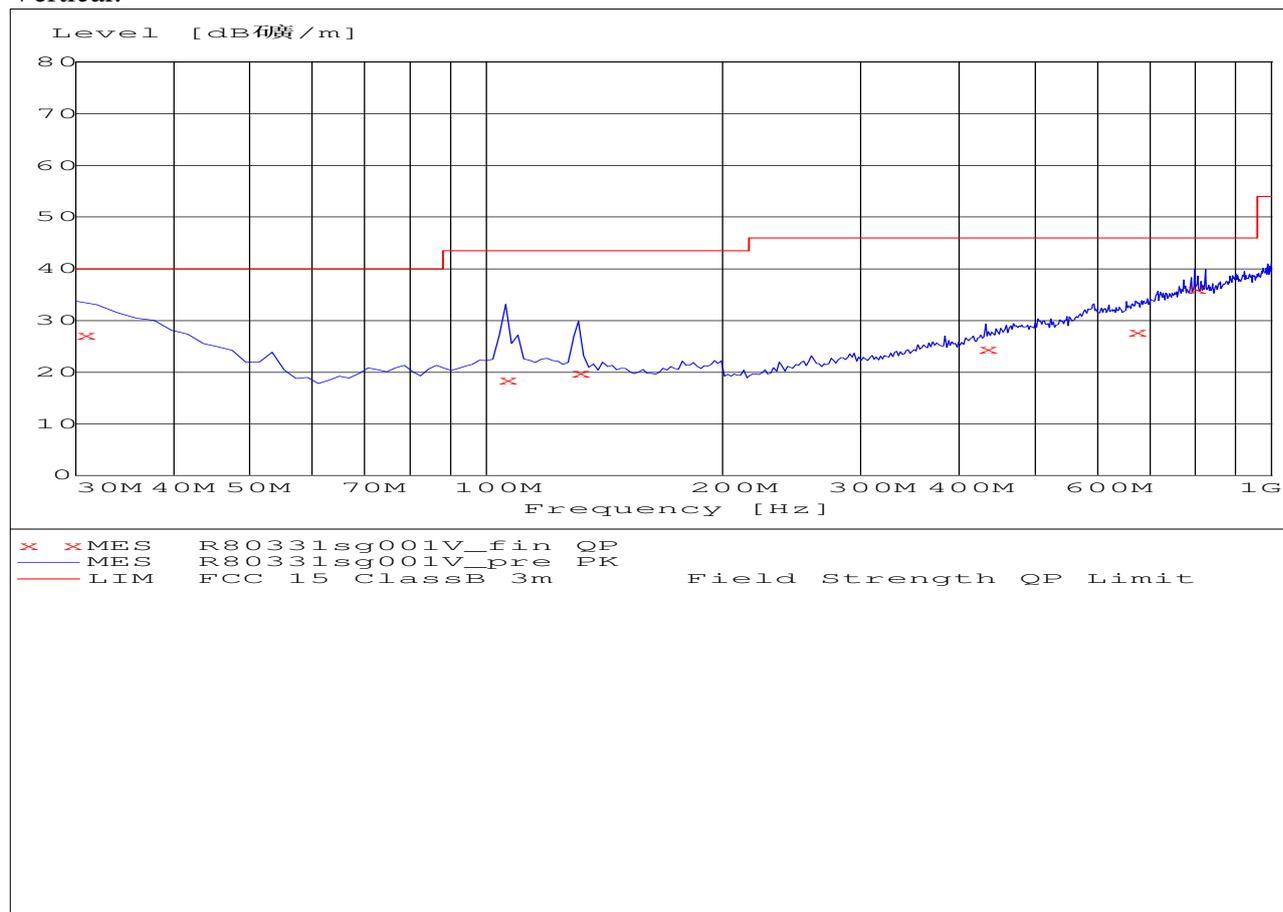
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
30.729255	27.22	400.0	180.00	VERTICAL	40.00	12.78
105.811623	18.53	400.0	90.00	VERTICAL	43.52	24.99
131.082164	19.69	400.0	0.00	VERTICAL	43.52	13.83
432.384770	24.39	400.0	180.00	VERTICAL	46.02	21.63
671.482966	27.62	300.0	270.00	VERTICAL	46.02	18.40
797.835671	35.86	200.0	0.00	VERTICAL	46.02	10.16

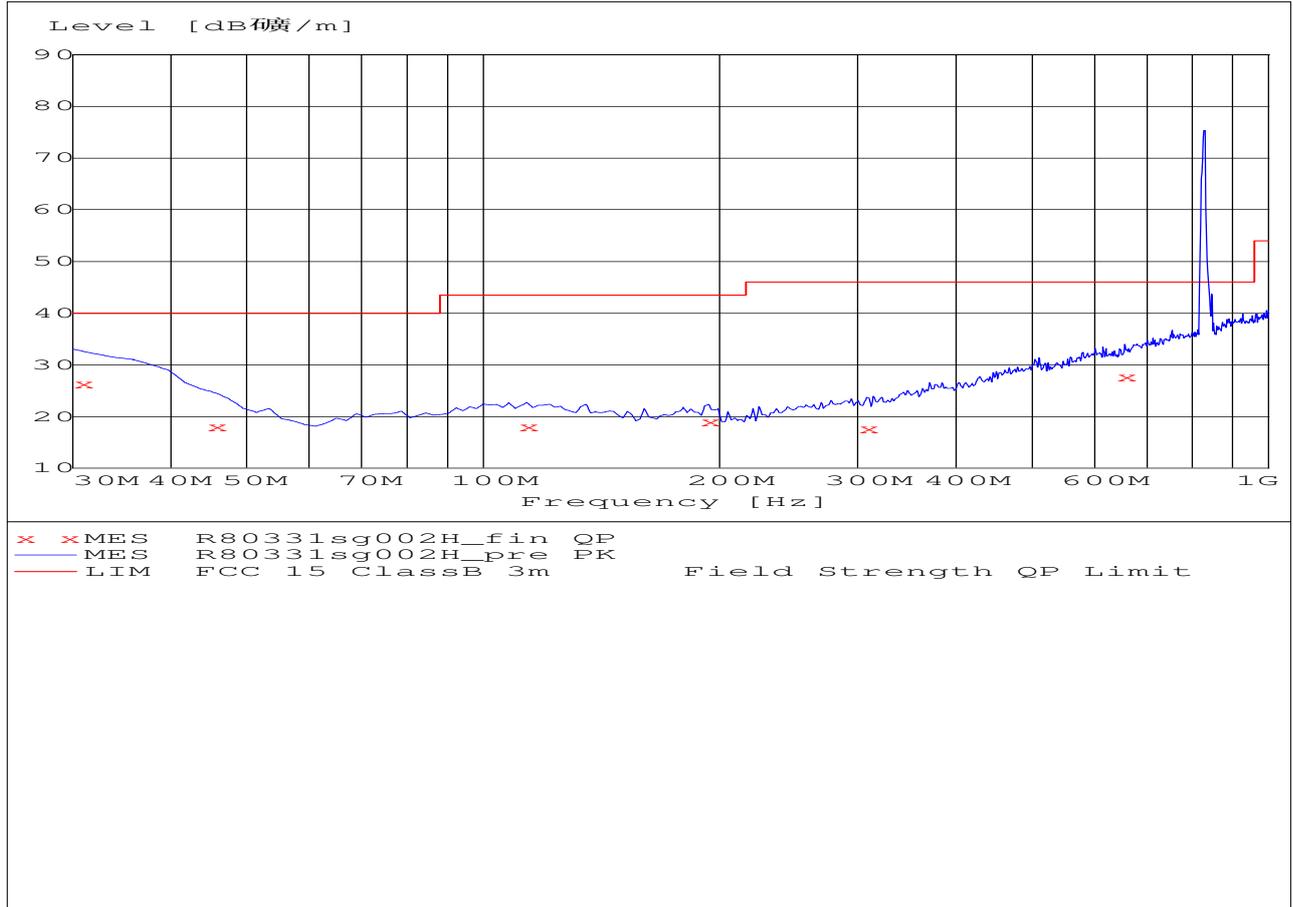
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WCDMA850 dedicated:
Horizontal:



Frequency MHz	Level dBµV/m	Height cm	Azimuth deg	Polarisation	Limit dBµV/m	Margin dB
30.795094	26.20	300.0	180.00	HORIZONTAL	40.00	13.80
45.551102	18.06	400.0	0.00	HORIZONTAL	40.00	21.94
113.587174	18.04	200.0	180.00	HORIZONTAL	43.52	25.48
193.286573	18.86	200.0	90.00	HORIZONTAL	43.52	24.66
307.975952	17.61	400.0	180.00	HORIZONTAL	46.02	28.41
655.931864	27.68	200.0	90.00	HORIZONTAL	46.02	18.34

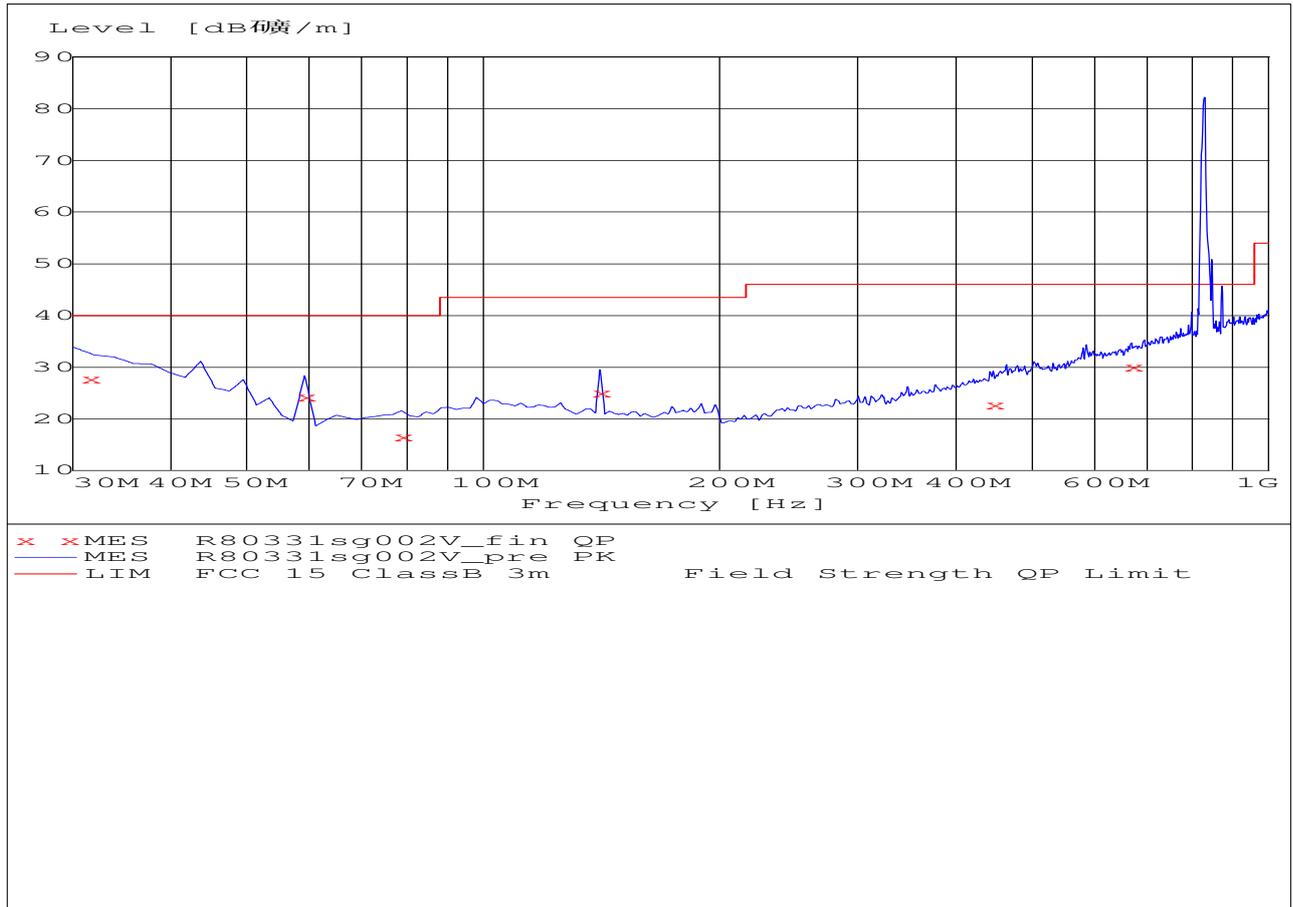
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Vertical:



Frequency MHz	Level dB μ V/m	Height cm	Azimuth deg	Polarisation	Limit dB μ V/m	Margin dB
31.494444	27.57	400.0	90.00	VERTICAL	40.00	12.43
59.158317	24.20	300.0	0.00	VERTICAL	40.00	15.80
78.597194	16.43	400.0	180.00	VERTICAL	40.00	23.57
140.801603	24.97	100.0	270.00	VERTICAL	43.52	18.55
445.991984	22.67	100.0	270.00	VERTICAL	46.02	23.35
669.539078	30.04	200.0	90.00	VERTICAL	46.02	15.98

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7 EQUIPMENT UNDER TEST PICTURES

7.1.1 Radiated Emission Test Setup



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8 EUT Construcational Details



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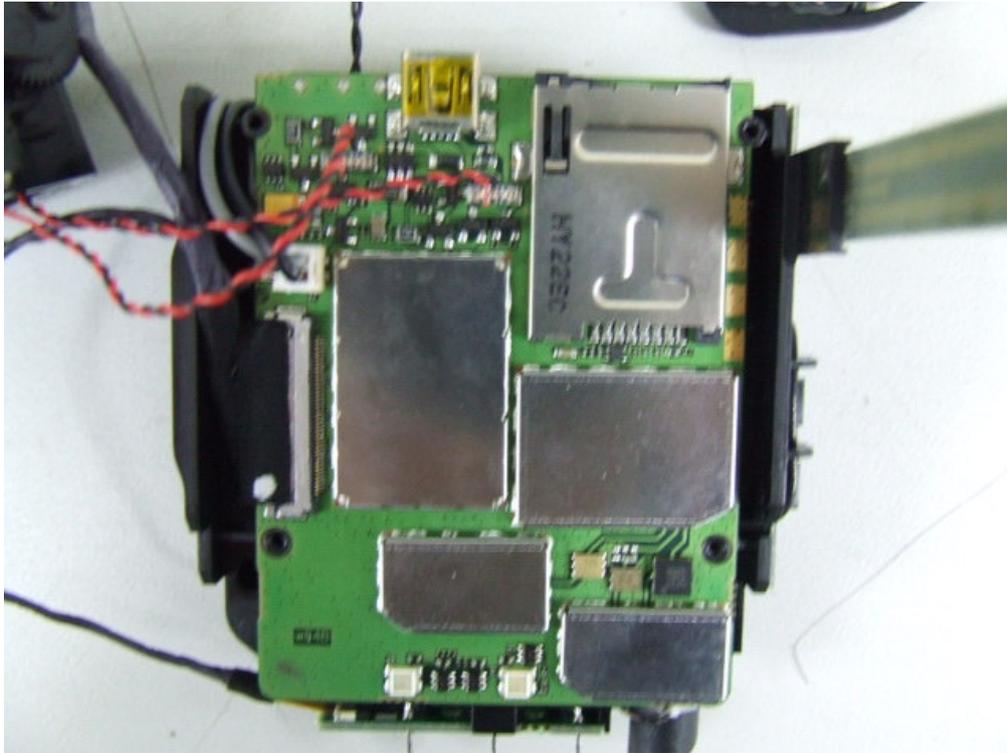


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