D-PL-12111-01-01

CNAS L0447

Registration No.910917

TEST REPORT

Report No.: SRTC2011-H024-E0039

Product Name: GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth

Marketing Name: one touch 900A

Product Model: yippee 3G_A2

Applicant: TCT Mobile Limited

Manufacturer: TCT Mobile Limited

Specification: FCC Part15B (Verification) (October 1, 2009 edition)

FCC ID: RAD197

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

Tel: 86-10-68009202 Fax: 86-10-68009205

CONTENTS

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Fax: 86-10-68009195 68009205

1. General information

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).
The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company: The State Radio_monitoring_center Testing Center (SRTC)
Address: No.80 Beilishi Road, Xicheng District, Beijing China
City: Beijing
Country or Region: China
Contacted person: Wang Junfeng
Tel: +86 10 68009181 +86 10 68009202
Fax: +86 10 68009195 +86 10 68009205
Email: wangjf@srrc.org.cn / wangjunfeng@srtc.org.cn

1.3 Applicant's details

Company: TCT Mobile Limited
Address: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Grantee Code: RAD
Contacted Person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@jrdcom.com

1.4 Manufacturer's details

Company: TCT Mobile Limited
Address: 5F, E building, No. 232, Liang Jing Road ZhangJiang High-Tech Park, Pudong Area
City: Shanghai
Country or Region: P.R.China
Contacted Person: Gong Zhizhou
Tel: +86-21-61460890
Fax: +86-21-61460602
Email: zhizhou.gong@jrdcom.com

1.5 Application details

Date of reception of test sample: 8th Mar 2011
Date of test: 9th Mar 2011 to 12th Apr 2011

1.6 Reference specification

FCC Part 15B October 1, 2009 (Verification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth
FCC ID	RAD197
Frequency range	GSM850/WCDMA Band V: Tx:824~849MHz Rx:869~894MHz PCS1900/WCDMA Band II: Tx:1850~1910MHz Rx:1930~1990MHz
Rated output power	GSM850:33.0dBm PCS1900:30.0dBm WCDMA:24.0dBm
E.R.P. & E.I.R.P.	E.R.P.: 31.7dBm E.I.R.P.: 26.2dBm
Modulation type	GSM/GPRS:GMSK EDGE: GMSK(Uplink direction) 8PSK(Downlink direction) WCDMA:QPSK
Emission Designator	GSM/GPRS/EDGE(GMSK):300KGXW WCDMA:4M50F9W
Duplex mode	FDD
Equipment Class	Class B
Duplex spacing	GSM850/WCDMA Band V:45MHz PCS1900/WCDMA Band II:80MHz
Antenna type	Integral
Power Supply	Battery or charger
Rated Power Supply Voltage	3.8V
Extreme Temperature	Lowest: -30°C Highest: +50°C
Extreme Voltage	Minimum: 3.5V Maximum: 4.2V
HW Version	LOT1
SW Version	sw53K

1.7.2 EUT details

Product Name	Marketing Name	Product Model	IMEI
GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth	one touch 900A	yippee 3G_A2	012787000001080

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Charger

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	CBA3001AG0C1
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 2#: Battery

Equipment	Battery
Manufacturer	BYD LITHIUM BATTERY CO., LTD
Model Number	CAB31L0000C1
Capacity	1000mAh
Rated Voltage	3.7V d.c.

AE (Auxiliary Equipment) 3#: Headset

Equipment	Headset
Manufacturer	HuiZhou Lianyun Electronic Technology Co,.Ltd
Model Number	CCB3160A10C2

AE (Auxiliary Equipment) 4#: Charger

Equipment	Charger
Manufacturer	Ten Pao International Ltd.
Model Number	CBA3120AG0C2
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 5#: Battery

Equipment	Battery
Manufacturer	SHENZHEN BAK BATTERY CO., LTD
Model Number	CAB31L0000C2
Capacity	1000mAh
Rated Voltage	3.7V d.c.

AE (Auxiliary Equipment) 6#: Headset

Equipment	Headset
Manufacturer	Shen Zhen Ju Wei Electronic Co.,LTD
Model Number	CCB3160A10C0

AE (Auxiliary Equipment) 7#: Data Cable

Equipment	Data Cable
Manufacturer	Shen Zhen Ju Wei Electronic Co.,LTD
Model Number	CDA3122001C1

AE (Auxiliary Equipment) 8#: Data Cable

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co.,Ltd
Model Number	CDA3122001C2

Note:

All the auxiliary equipments have been labeled with number in order to identify the test sample.

As the information described above, there are two different models of charger manufactured by two different companies, two different models of battery manufactured by two different companies, and two different models of headset manufactured by two different companies.

The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of battery, one model of charger, and one model of headset) the EUT would have the worst features. So all the tests except conducted emissions (please refer to the section 2.2.1 for details) shown in this test report are performed when the EUT exercised by the charger CBA3001AG0C1, the battery CAB31L0000C1 and the headset CCB3160A10C2.

2. Test information

2.1 Summary of the test results

No.	Test case	FCC reference	Verdict
1	Conducted emissions	15.107	Pass
2	Radiated emissions	15.109	Pass

This Test Report Is Issued by: Mr. Song Qizhu Director of the test lab	Checked by: Mr. Wang Junfeng Deputy director of the test lab
Tested by: Mr. Wang Zheng Test engineer	Issued date: **2011.06.08**

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
20°C	48.6%	99.7kPa

Test Setup:

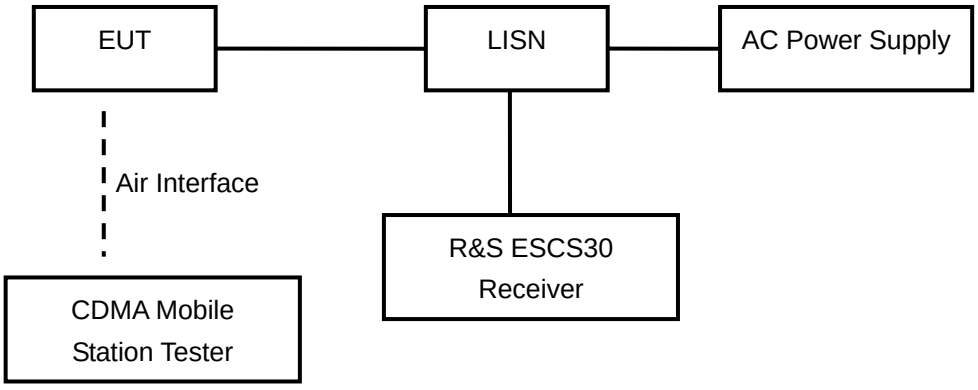


Figure 1

Test Procedure:

The EUT is placed on a non-matellic table 0.8m above the horizontal metal reference ground plane. The EUT is connected with LISN via the charger. The LISN is connected to the reference ground. The accessories of the EUT are connected with the EUT such as headset etc.
The test set-up and the test methods are performed according to ANSI C63.4:2009.
Then start the test software ES-K1. Sweep the whole frequency band through the range from 150 KHz to 30 MHz. The measurement should be done for both L line and N line. During pre-test, the receiver uses both peak detector and average detector. And the final test, the receiver uses both average detector and Quasi-peak detector.
The data of cable loss has been calibrated in full testing frequency range before the testing.

Limit:

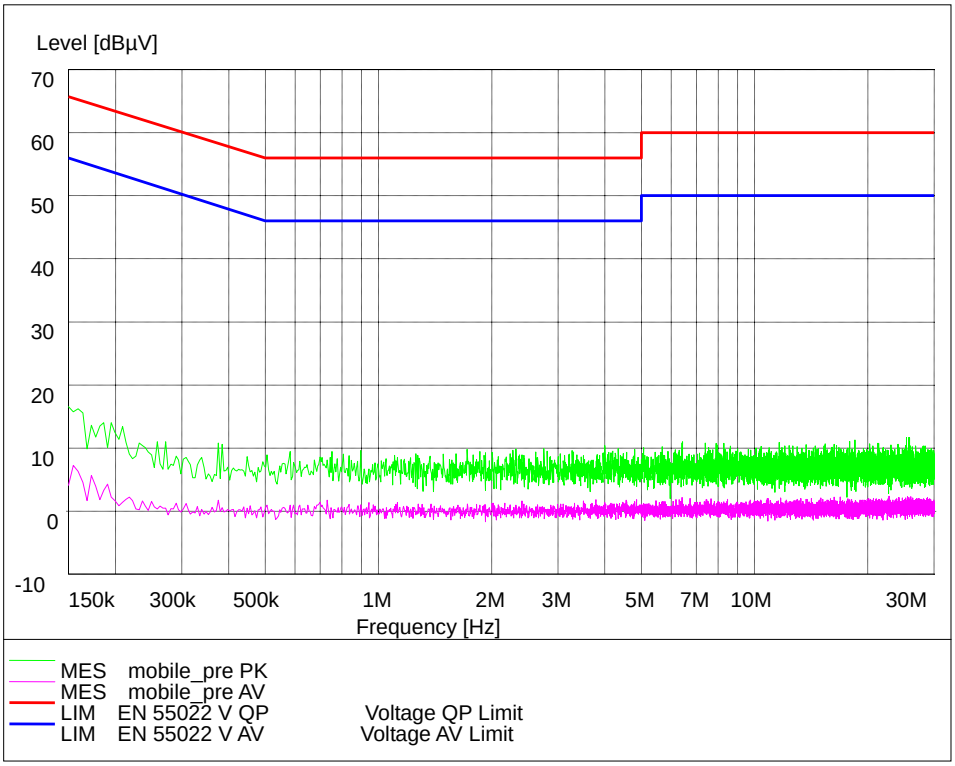
Frequency of Emission(MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15～0.5	66 to 56*	56 to 46*
0.5～5	56	46
5～30	60	50

Note: * Decreases with the logarithm of the frequency

Test result:

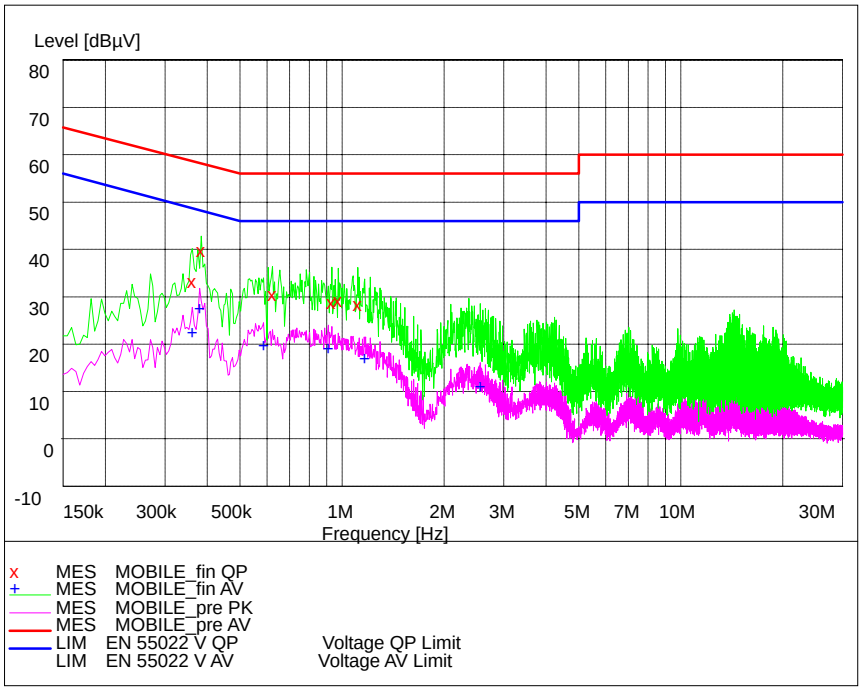
Refer to the following figures.

Noise Level of The Measuring Instrument



L and N Line

GSM 850 AE1#+AE2#+AE3#+AE7#



L and N Line

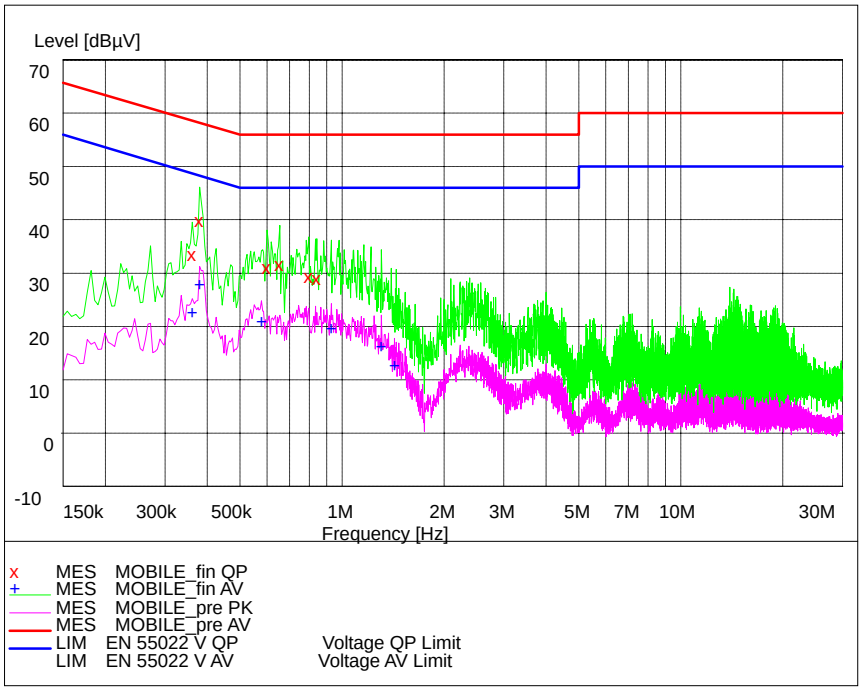
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	35.70	20.2	59	22.9	L1	GND
0.384000	42.30	20.2	58	15.8	N	GND
0.622500	32.90	20.3	56	23.1	L1	GND
0.933000	31.20	20.3	56	24.8	L1	GND
0.973500	31.70	20.2	56	24.3	L1	GND
1.113000	30.90	20.2	56	25.1	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	25.00	20.2	49	23.7	L1	GND
0.379500	30.10	20.2	48	18.2	L1	GND
0.586500	22.30	20.3	46	23.7	L1	GND
0.910500	21.60	20.2	46	24.4	N	GND
1.167000	19.40	20.2	46	26.6	L1	GND
2.557500	13.60	20.3	46	32.4	L1	GND

GSM 850 AE1#+AE2#+AE3#+AE8#



L and N Line

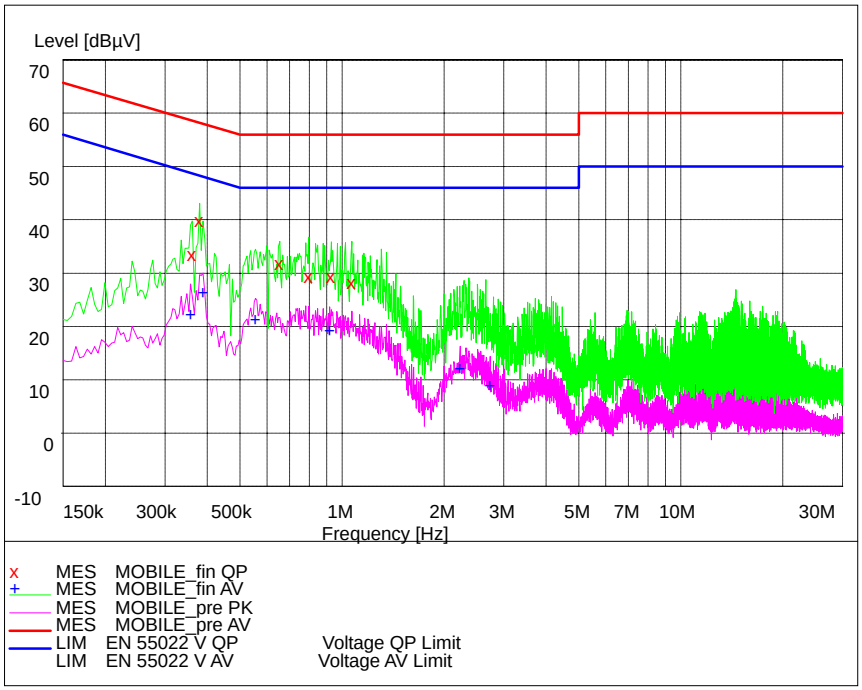
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	35.70	20.2	59	22.9	L1	GND
0.379500	42.20	20.2	58	16.0	L1	GND
0.600000	33.30	20.3	56	22.7	N	GND
0.654000	33.90	20.3	56	22.1	L1	GND
0.798000	31.60	20.3	56	24.4	N	GND
0.843000	31.20	20.3	56	24.8	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	24.80	20.2	49	23.9	L1	GND
0.379500	30.00	20.2	48	18.3	L1	GND
0.577500	23.20	20.3	46	22.8	L1	GND
0.928500	21.80	20.3	46	24.2	N	GND
1.306500	18.50	20.2	46	27.5	L1	GND
1.428000	14.90	20.2	46	31.1	L1	GND

GSM 850 AE1#+AE2#+AE4#



L and N Line

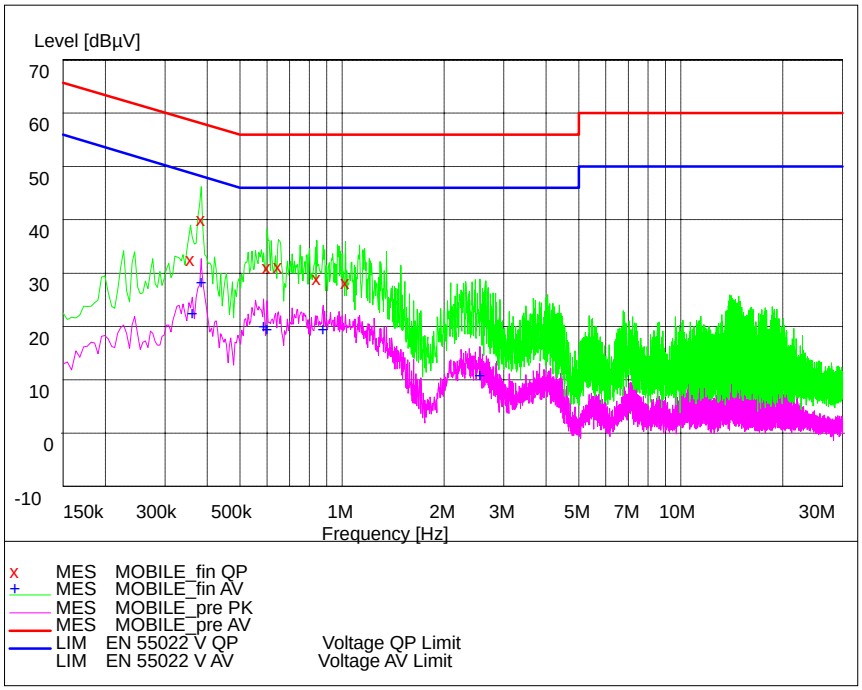
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	35.70	20.2	59	22.9	N	GND
0.379500	42.20	20.2	58	16.0	L1	GND
0.654000	34.00	20.3	56	22.0	L1	GND
0.798000	31.60	20.3	56	24.4	L1	GND
0.928500	31.50	20.3	56	24.5	L1	GND
1.068000	30.50	20.2	56	25.5	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	24.40	20.2	49	24.4	L1	GND
0.388500	28.60	20.2	48	19.5	L1	GND
0.555000	23.50	20.3	46	22.5	N	GND
0.919500	21.40	20.2	46	24.6	L1	GND
2.229000	14.40	20.3	46	31.6	L1	GND
2.733000	11.20	20.3	46	34.8	N	GND

GSM 1900 AE1#+AE2#+AE3#+AE7#



L and N Line

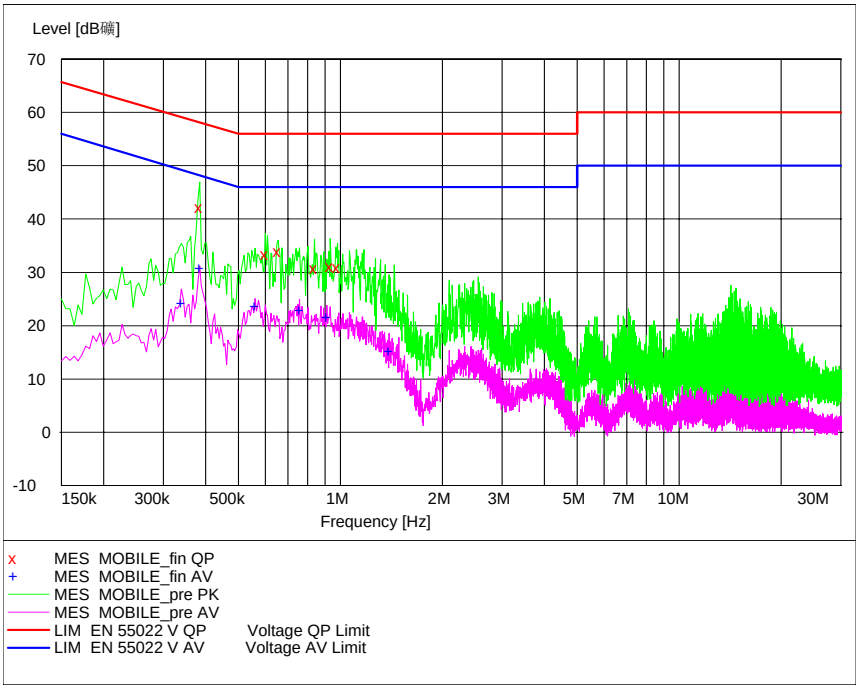
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	34.70	20.2	59	24.0	L1	GND
0.384000	42.30	20.2	58	15.8	N	GND
0.600000	33.30	20.3	56	22.7	L1	GND
0.649500	33.40	20.3	56	22.6	N	GND
0.843000	31.20	20.3	56	24.8	L1	GND
1.023000	30.40	20.2	56	25.6	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	24.70	20.2	49	23.9	L1	GND
0.384000	30.60	20.2	48	17.6	L1	GND
0.586500	22.20	20.3	46	23.8	L1	GND
0.600000	21.70	20.3	46	24.3	L1	GND
0.879000	21.70	20.3	46	24.3	N	GND
2.553000	13.00	20.3	46	33.0	N	GND

GSM 1900 AE1#+AE2#+AE3#+AE8#



L and N Line

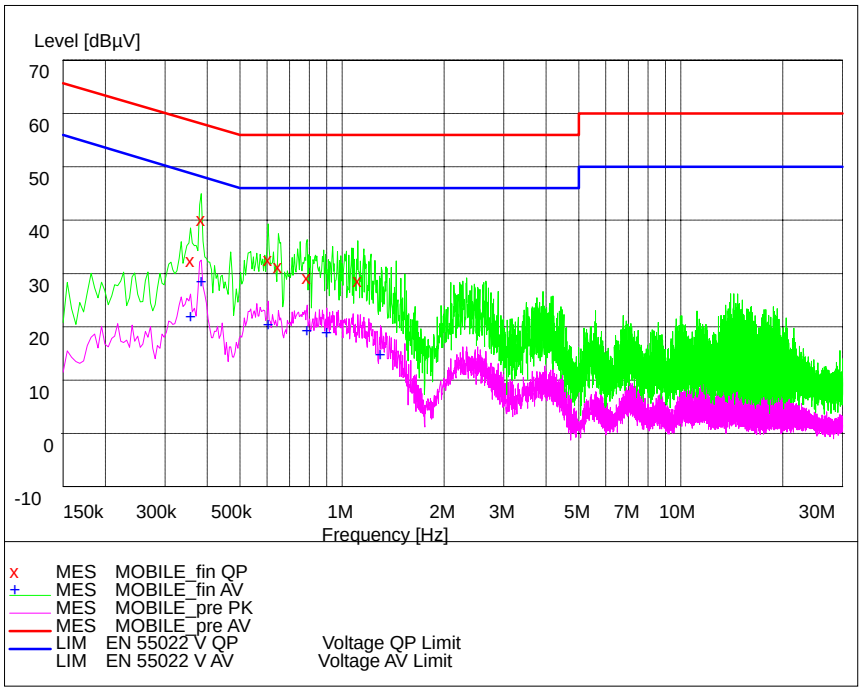
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.384000	42.20	20.2	58	15.9	L1	GND
0.600000	33.40	20.3	56	22.6	L1	GND
0.654000	34.00	20.3	56	22.0	L1	GND
0.838500	30.70	20.3	56	25.3	L1	GND
0.933000	31.20	20.3	56	24.8	N	GND
0.978000	30.90	20.2	56	25.1	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.339000	24.30	20.2	49	25.0	L1	GND
0.384000	30.70	20.2	48	17.5	N	GND
0.559500	23.60	20.3	46	22.4	L1	GND
0.757500	22.80	20.3	46	23.2	L1	GND
0.910500	21.50	20.2	46	24.5	N	GND
1.392000	15.20	20.2	46	30.8	L1	GND

GSM 1900 AE1#+AE2#+AE4#



L and N Line

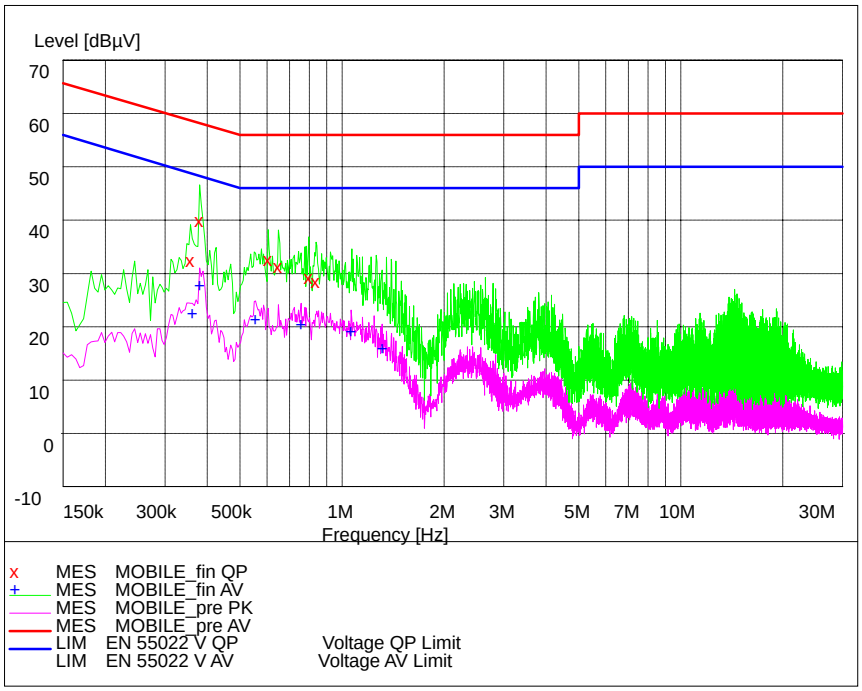
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	34.70	20.2	59	24.0	L1	GND
0.384000	42.40	20.2	58	15.7	L1	GND
0.604500	34.90	20.3	56	21.1	N	GND
0.649500	33.60	20.3	56	22.4	L1	GND
0.789000	31.50	20.3	56	24.5	L1	GND
1.113000	31.00	20.2	56	25.0	N	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	24.20	20.2	49	24.6	L1	GND
0.384000	30.70	20.2	48	17.5	L1	GND
0.604500	22.60	20.3	46	23.4	L1	GND
0.789000	21.50	20.3	46	24.5	L1	GND
0.901500	21.20	20.2	46	24.8	L1	GND
1.297500	17.00	20.2	46	29.0	L1	GND

WCDMA BAND II AE1#+AE2#+AE3#+AE7#



L and N Line

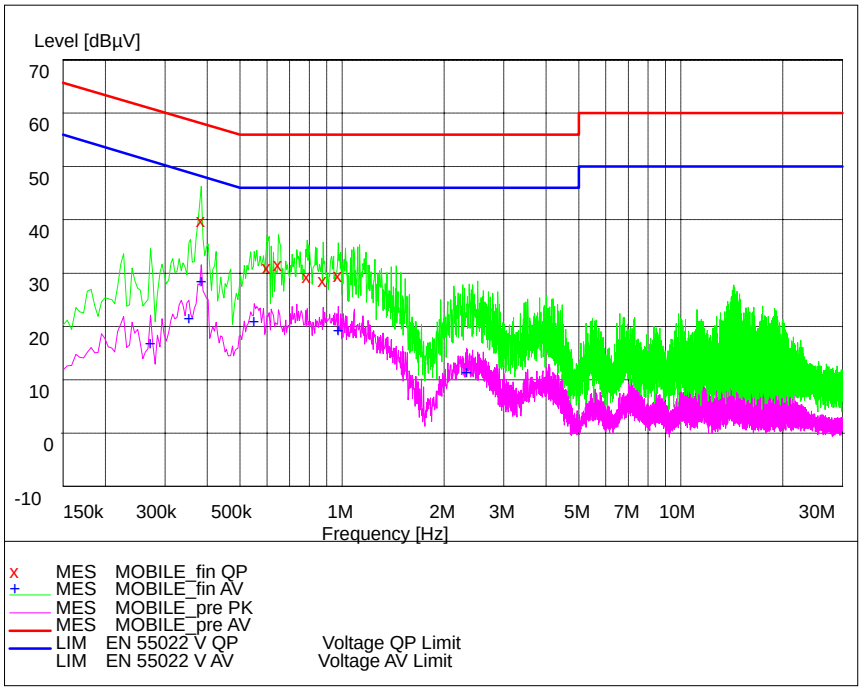
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	34.70	20.2	59	24.0	L1	GND
0.379500	42.20	20.2	58	16.1	L1	GND
0.604500	34.90	20.3	56	21.1	L1	GND
0.649500	33.60	20.3	56	22.4	N	GND
0.798000	31.60	20.3	56	24.4	L1	GND
0.838500	30.80	20.3	56	25.2	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	24.80	20.2	49	23.9	L1	GND
0.379500	30.00	20.2	48	18.3	L1	GND
0.555000	23.50	20.3	46	22.5	L1	GND
0.757500	22.70	20.3	46	23.3	L1	GND
1.063500	21.40	20.2	46	24.6	L1	GND
1.311000	18.00	20.2	46	28.0	N	GND

WCDMA BAND II AE1#+AE2#+AE3#+AE8#



L and N Line

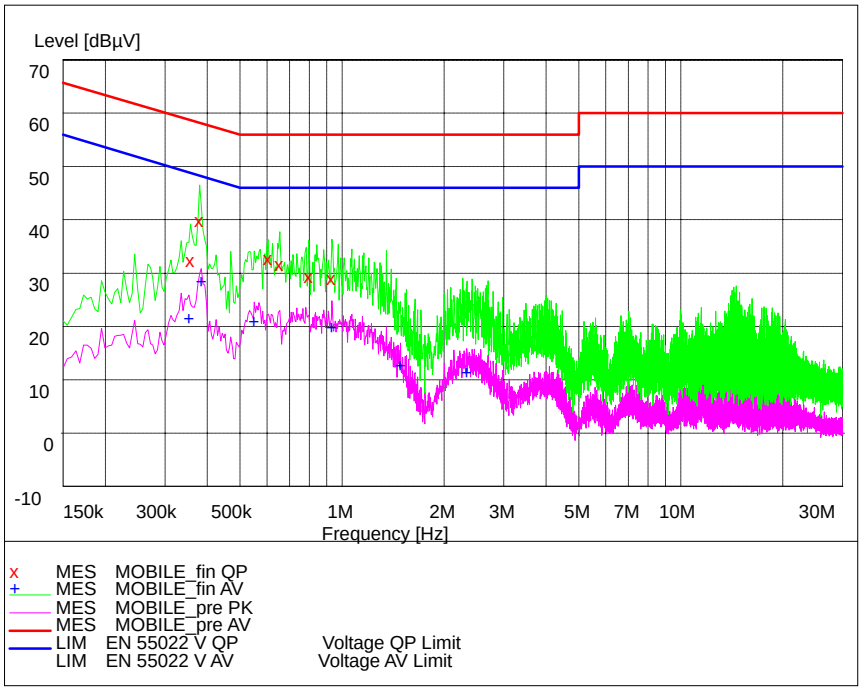
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.384000	42.20	20.2	58	15.9	L1	GND
0.600000	33.30	20.3	56	22.7	N	GND
0.649500	33.70	20.3	56	22.3	L1	GND
0.789000	31.50	20.3	56	24.5	L1	GND
0.879000	30.90	20.3	56	25.1	L1	GND
0.973500	31.70	20.2	56	24.3	N	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.271500	19.00	20.2	51	32.1	L1	GND
0.352500	23.70	20.2	49	25.2	L1	GND
0.384000	30.70	20.2	48	17.5	N	GND
0.550500	23.20	20.3	46	22.8	L1	GND
0.973500	21.40	20.2	46	24.6	L1	GND
2.328000	13.60	20.3	46	32.4	L1	GND

WCDMA BAND II AE1#+AE2#+AE4#



L and N Line

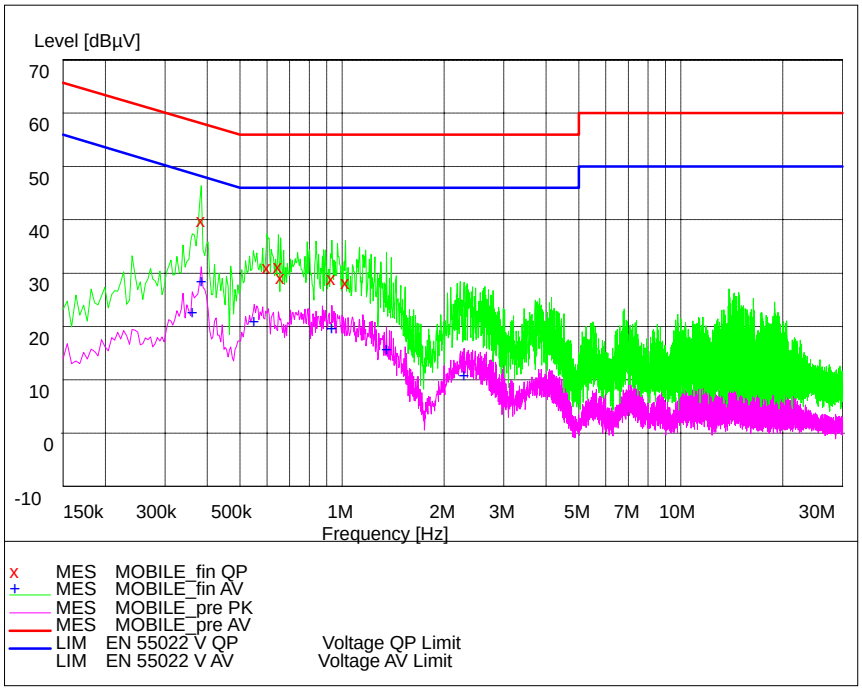
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	34.60	20.2	59	24.1	L1	GND
0.379500	42.20	20.2	58	16.0	L1	GND
0.604500	35.00	20.3	56	21.0	L1	GND
0.654000	33.90	20.3	56	22.1	L1	GND
0.798000	31.60	20.3	56	24.4	L1	GND
0.933000	31.30	20.3	56	24.7	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.352500	23.70	20.2	49	25.2	L1	GND
0.384000	30.70	20.2	48	17.5	N	GND
0.550500	23.20	20.3	46	22.8	L1	GND
0.933000	22.00	20.3	46	24.0	L1	GND
1.486500	14.90	20.2	46	31.1	L1	GND
2.332500	13.60	20.3	46	32.4	L1	GND

WCDMA BAND V AE1#+AE2#+AE3#+AE7#



L and N Line

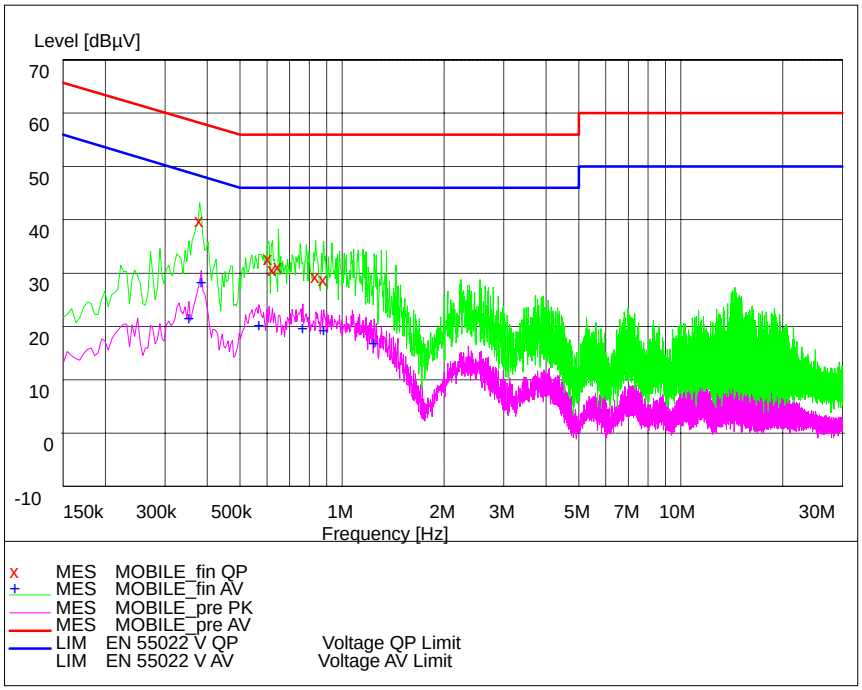
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.384000	42.20	20.2	58	15.9	L1	GND
0.600000	33.30	20.3	56	22.7	N	GND
0.649500	33.50	20.3	56	22.5	L1	GND
0.658500	31.40	20.3	56	24.6	L1	GND
0.933000	31.20	20.3	56	24.8	L1	GND
1.023000	30.40	20.2	56	25.6	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.361500	24.80	20.2	49	23.9	L1	GND
0.384000	30.70	20.2	48	17.5	L1	GND
0.550500	23.20	20.3	46	22.8	L1	GND
0.933000	21.90	20.3	46	24.1	N	GND
1.351500	17.80	20.2	46	28.2	L1	GND
2.287500	13.00	20.3	46	33.0	L1	GND

WCDMA BAND V AE1#+AE2#+AE3#+AE8#



L and N Line

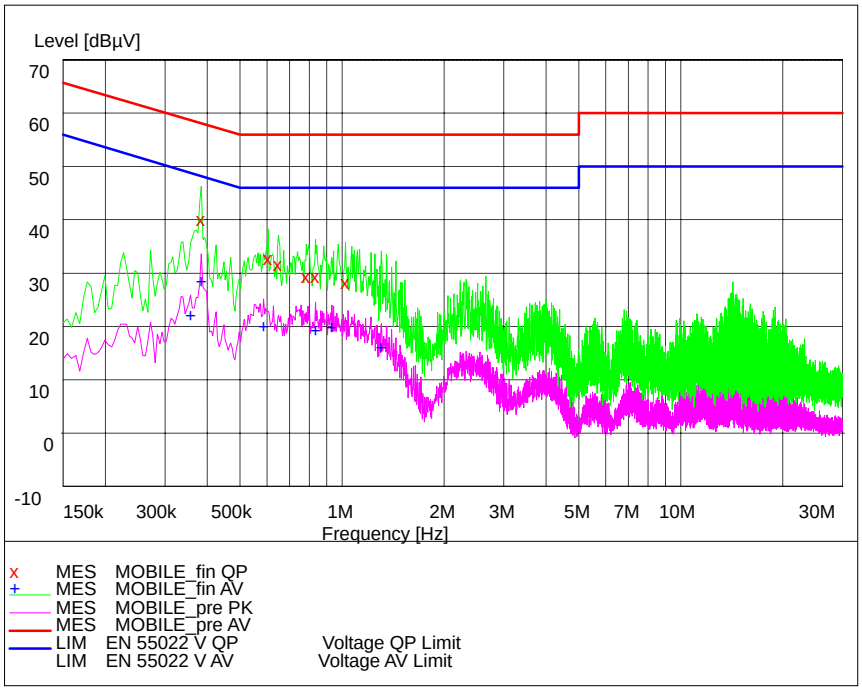
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.379500	42.10	20.2	58	16.2	L1	GND
0.604500	35.00	20.3	56	21.0	L1	GND
0.622500	32.80	20.3	56	23.2	N	GND
0.649500	33.40	20.3	56	22.6	L1	GND
0.834000	31.50	20.3	56	24.5	N	GND
0.883500	31.00	20.3	56	25.0	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.352500	23.70	20.2	49	25.2	L1	GND
0.384000	30.60	20.2	48	17.6	N	GND
0.568500	22.40	20.3	46	23.6	L1	GND
0.766500	21.90	20.2	46	24.1	N	GND
0.883500	21.50	20.3	46	24.5	L1	GND
1.243500	19.00	20.2	46	27.0	L1	GND

WCDMA BAND V AE1#+AE2#+AE4#



L and N Line

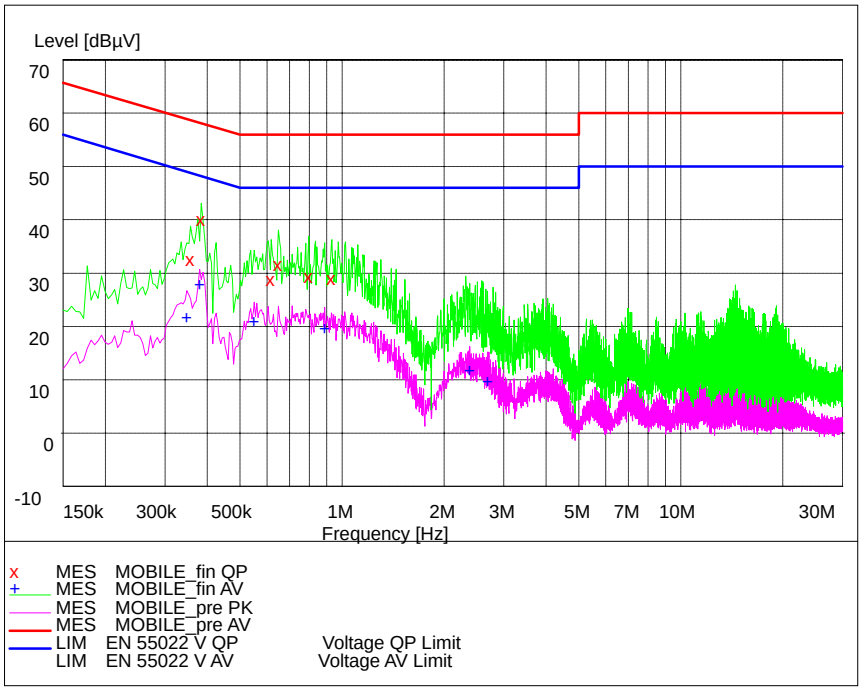
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.384000	42.30	20.2	58	15.8	L1	GND
0.604500	34.90	20.3	56	21.1	L1	GND
0.649500	33.70	20.3	56	22.3	L1	GND
0.784500	31.50	20.3	56	24.5	N	GND
0.834000	31.60	20.3	56	24.4	N	GND
1.023000	30.50	20.2	56	25.5	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	24.20	20.2	49	24.6	L1	GND
0.384000	30.70	20.2	48	17.5	L1	GND
0.586500	22.30	20.3	46	23.7	N	GND
0.834000	21.50	20.3	46	24.5	L1	GND
0.933000	22.00	20.3	46	24.0	N	GND
1.306500	18.30	20.2	46	27.7	L1	GND

FM Radio AE1#+AE2#+AE3#+AE7#



L and N Line

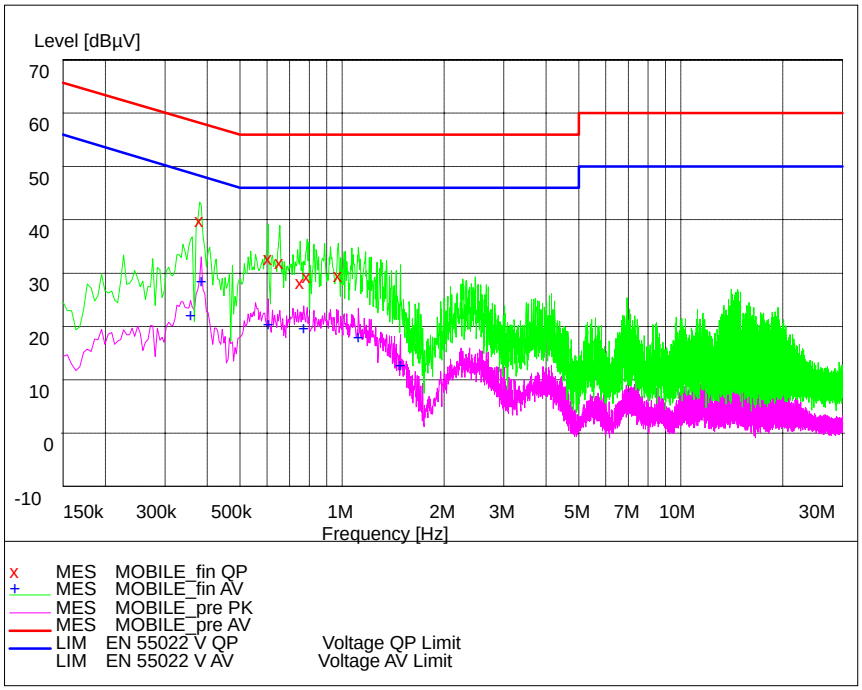
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	34.70	20.2	59	24.0	L1	GND
0.384000	42.30	20.2	58	15.8	L1	GND
0.618000	31.00	20.3	56	25.0	N	GND
0.649500	33.70	20.3	56	22.3	L1	GND
0.798000	31.50	20.3	56	24.5	L1	GND
0.933000	31.20	20.3	56	24.8	N	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.348000	23.90	20.2	49	25.1	L1	GND
0.379500	30.00	20.2	48	18.3	N	GND
0.550500	23.10	20.3	46	22.9	L1	GND
0.888000	21.80	20.3	46	24.2	N	GND
2.382000	14.00	20.3	46	32.0	L1	GND
2.688000	11.90	20.3	46	34.1	L1	GND

MP3/MP4 AE1#+AE2#+AE3#+AE7#



L and N Line

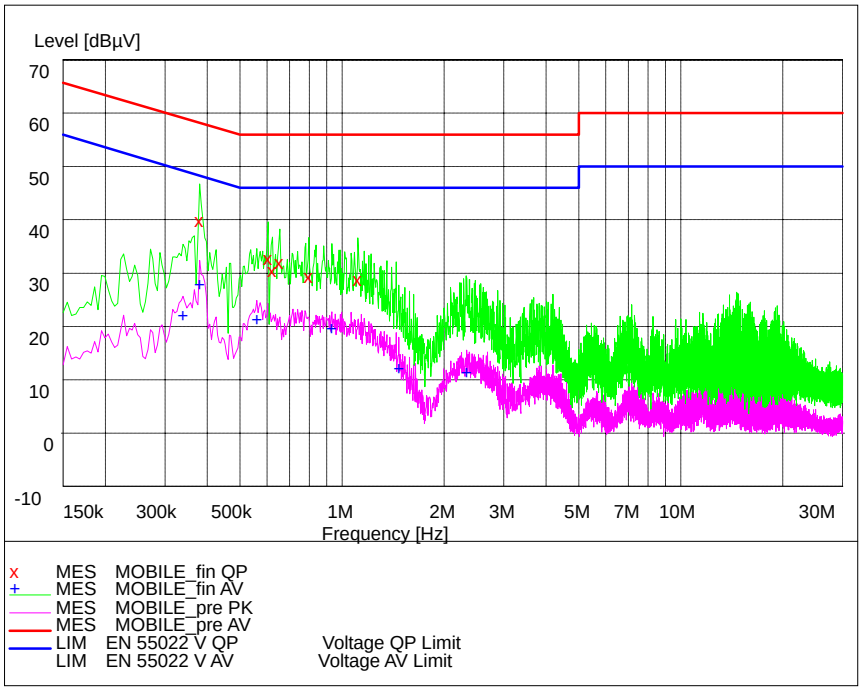
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.379500	42.10	20.2	58	16.1	L1	GND
0.604500	34.90	20.3	56	21.1	L1	GND
0.654000	34.10	20.3	56	21.9	L1	GND
0.753000	30.60	20.3	56	25.4	L1	GND
0.789000	31.50	20.3	56	24.5	L1	GND
0.973500	31.70	20.2	56	24.3	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.357000	24.20	20.2	49	24.6	N	GND
0.384000	30.70	20.2	48	17.5	L1	GND
0.604500	22.50	20.3	46	23.5	L1	GND
0.771000	21.80	20.2	46	24.2	L1	GND
1.117500	20.20	20.2	46	25.8	L1	GND
1.486500	14.90	20.2	46	31.1	N	GND

Camera AE1#+AE2#+AE3#+AE7#



L and N Line

MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.379500	42.00	20.2	58	16.2	L1	GND
0.604500	34.90	20.3	56	21.1	L1	GND
0.622500	32.70	20.3	56	23.3	L1	GND
0.654000	34.10	20.3	56	21.9	L1	GND
0.798000	31.60	20.3	56	24.4	N	GND
1.113000	31.00	20.2	56	25.0	L1	GND

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.339000	24.30	20.2	49	25.0	L1	GND
0.379500	30.00	20.2	48	18.3	N	GND
0.559500	23.60	20.3	46	22.4	L1	GND
0.933000	21.90	20.3	46	24.1	L1	GND
1.468500	14.30	20.2	46	31.7	N	GND
2.332500	13.60	20.3	46	32.4	L1	GND

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
20.5°C	50.1%	99.8kPa

Test Setup:

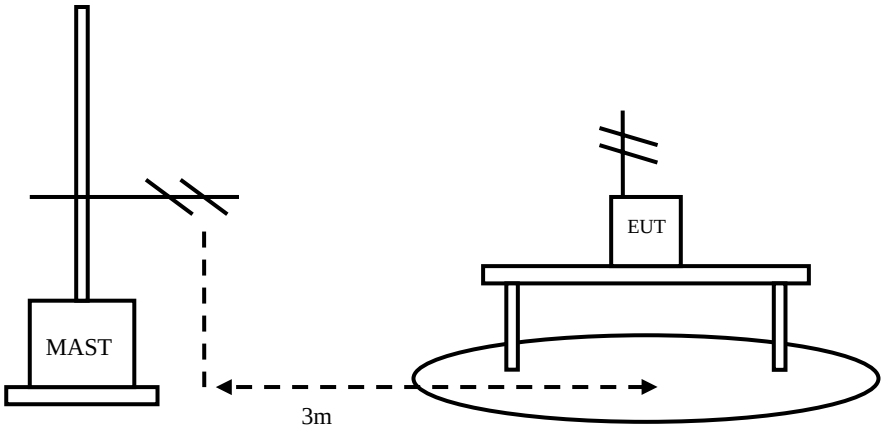


Figure 2

Test Procedure:
The EUT should be placed on a non-metallic table 80cm above the ground plane. The receive antennas shall be moved from 1 to 4 meters. The distance between EUT and receive antenna should be 3 meters.
The EUT should work in idle mode. The accessories of the EUT are connected with the EUT such as headset etc. The test set-up and the test methods are performed according to ANSI C63.4:2009.
Then start the test software ES-K1. Sweep the whole frequency band through the range from 30MHz to 1GHz, using receive log period antenna HL562.
During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The EUT is laid in two modes as follow: 1. put the EUT in horizontal direction; 2. put the EUT in vertical direction.
The data of cable loss and antenna factor have been calibrated in full testing frequency range before the testing.

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.
The measurement results are obtained as described below:
Result= P_{mea} + A_{Rpl}

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dBμV/m)
30～88	Quasi-peak	40
88～216	Quasi-peak	43.5
216～960	Quasi-peak	46
960～1000	Quasi-peak	54
1000～5th harmonic of the highest frequency or 40GHz, whichever is lower	Average Peak	54 74

Test result:

GSM 850 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
48.52	20.15	8.1	12.05	Vertica
60.69	20.28	7.6	12.68	Horizontal
98.48	21.75	8.9	12.85	Horizontal
101.87	20.44	9.1	11.34	Vertical
183.89	20.94	10.2	10.74	Vertical
960.36	29.58	24.3	5.28	Vertical

PCS1900 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
48.48	19.92	8.1	11.82	Vertical
61.36	20.07	7.6	12.47	Horizontal
98.47	21.39	8.9	12.49	Vertical
102.58	20.91	9.1	11.81	Vertical
183.37	21.27	10.2	11.07	Vertical
959.58	29.83	24.3	5.53	Vertical

WCDMA Band II Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
48.50	19.39	8.1	11.29	Vertical
60.89	20.30	7.6	12.70	Horizontal
98.70	21.27	8.9	12.37	Vertical
102.61	21.03	9.1	11.93	Vertical
183.64	21.53	10.2	11.33	Vertical
960.01	29.56	24.3	5.26	Vertical

WCDMA Band V Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
49.19	19.85	8.1	11.75	Vertical
60.99	19.57	7.6	11.97	Vertical
98.02	21.95	8.9	13.05	Vertical
102.35	20.74	9.1	11.64	Horizontal
183.94	21.40	10.2	11.20	Vertical
960.23	29.36	24.3	5.06	Vertical

FM Radio Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
48.78	20.30	8.1	12.20	Vertical
60.54	20.33	7.6	12.73	Vertical
98.91	21.68	8.9	12.78	Horizontal
102.29	21.38	9.1	12.28	Vertical
183.66	20.68	10.2	10.48	Vertical
959.97	29.32	24.3	5.02	Vertical

MP3/MP4 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
48.97	20.06	8.1	11.96	Vertical
61.26	19.78	7.6	12.18	Vertical
98.22	21.24	8.9	12.34	Vertical
102.51	20.50	9.1	11.40	Horizontal
183.65	20.71	10.2	10.51	Vertical
960.01	29.43	24.3	5.13	Vertical

Camera Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
48.63	19.92	8.1	11.82	Vertica
61.03	20.03	7.6	12.43	Horizontal
98.92	21.52	8.9	12.62	Vertical
102.26	21.00	9.1	11.90	Vertical
183.32	20.67	10.2	10.47	Vertical
959.56	29.16	24.3	4.86	Vertical

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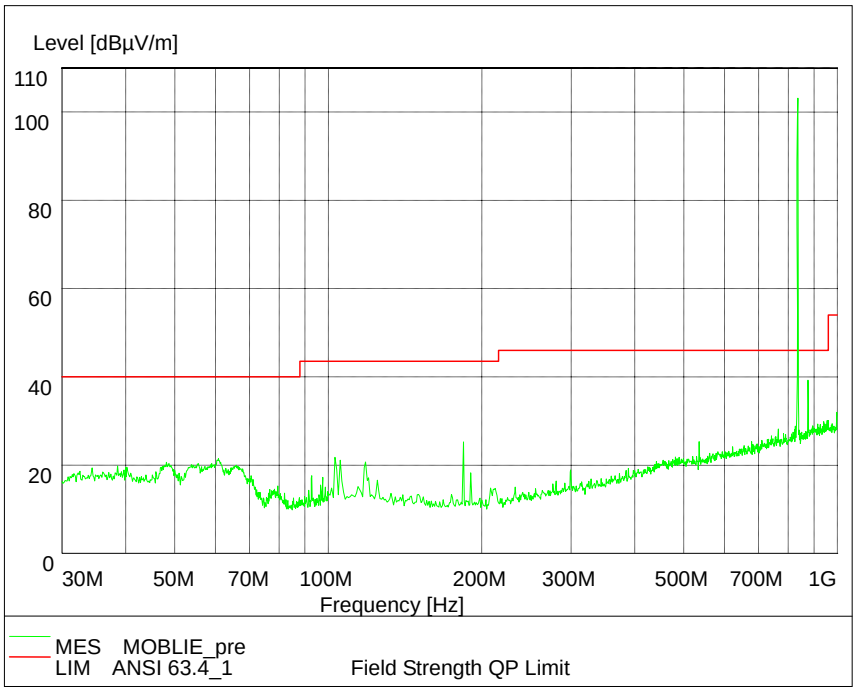
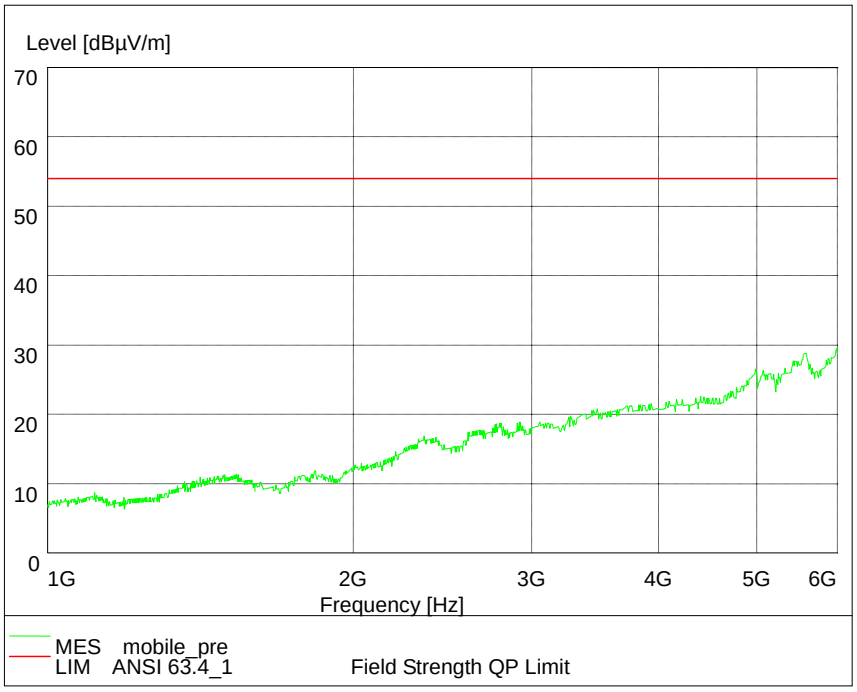
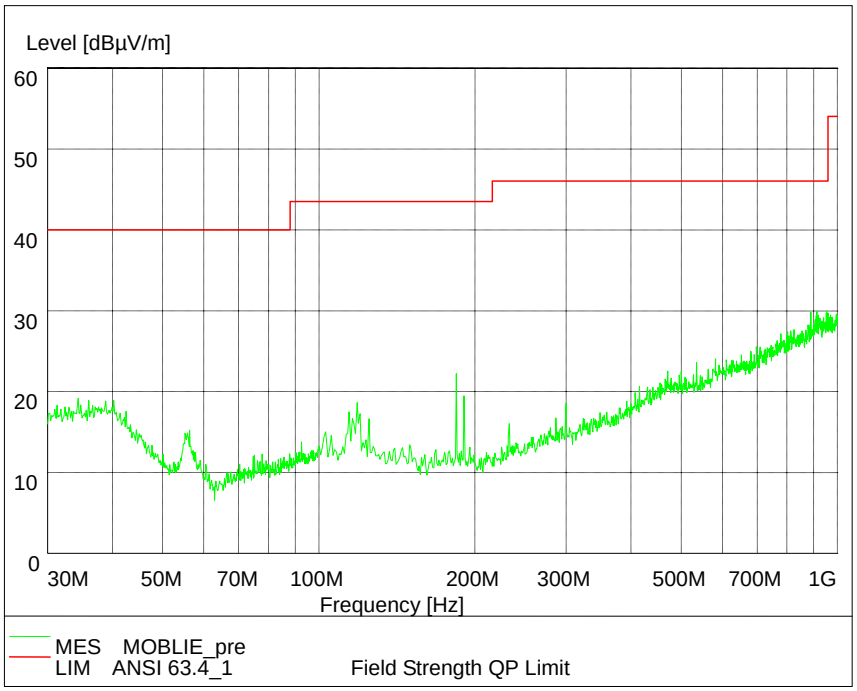


GSM 850(30MHz – 1GHz)

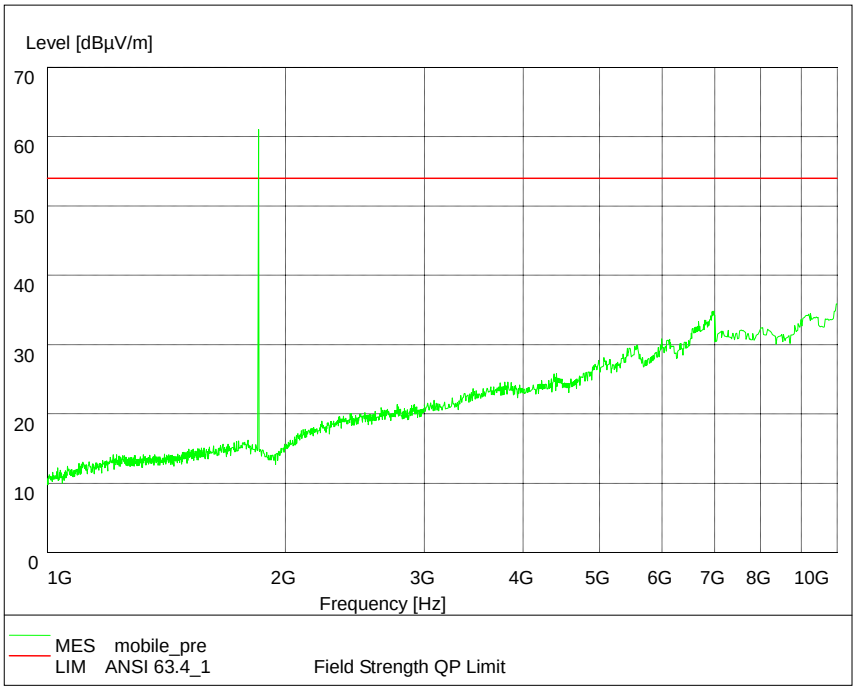
Note: The signal beyond the limit is the base station simulator carrier.



GSM 850(1GHz – 6GHz)

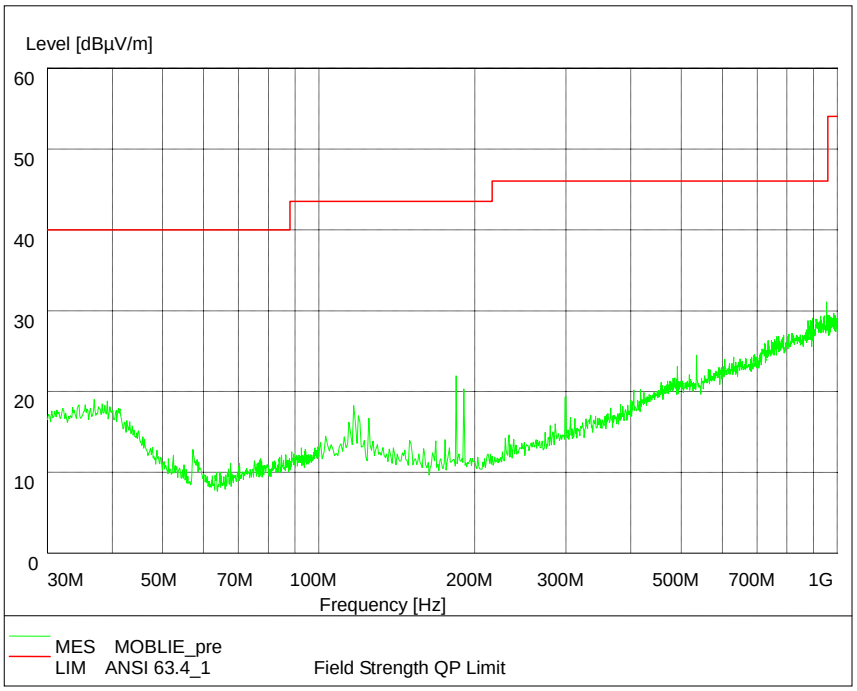


PCS 1900(30MHz – 1GHz)

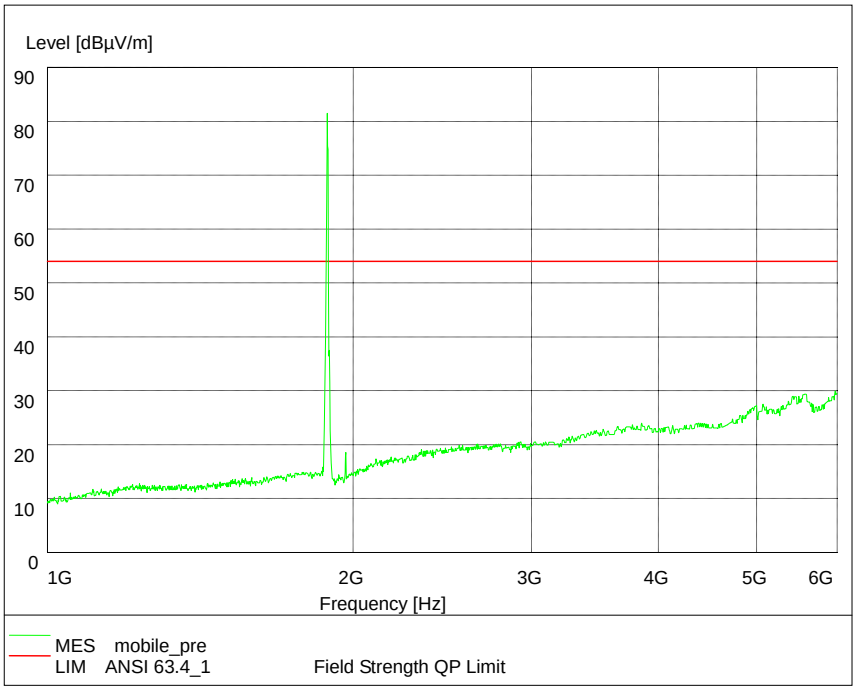


PCS 1900(1GHz – 10GHz)

Note: The signals beyond the limit are the base station and simulator carrier.

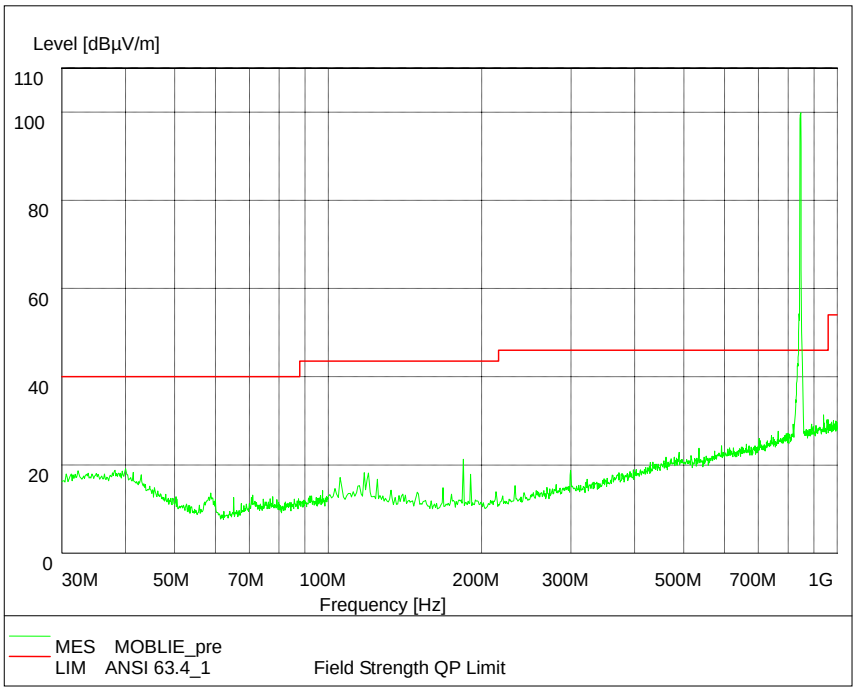


WCDMA BAND II(30MHz – 1GHz)



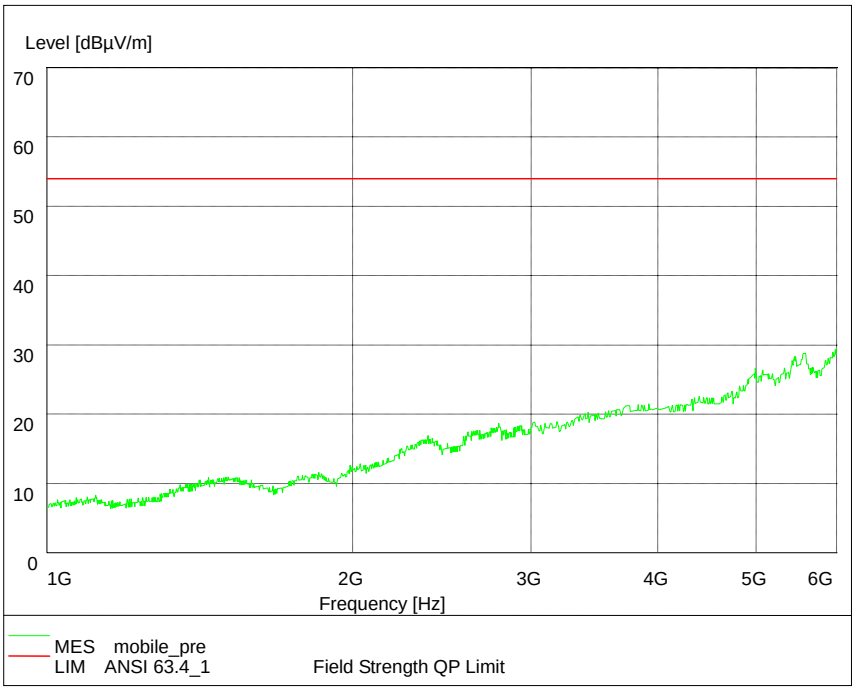
WCDMA BAND II(1GHz – 10GHz)

Note: The signals beyond the limit are the base station and simulator carrier.

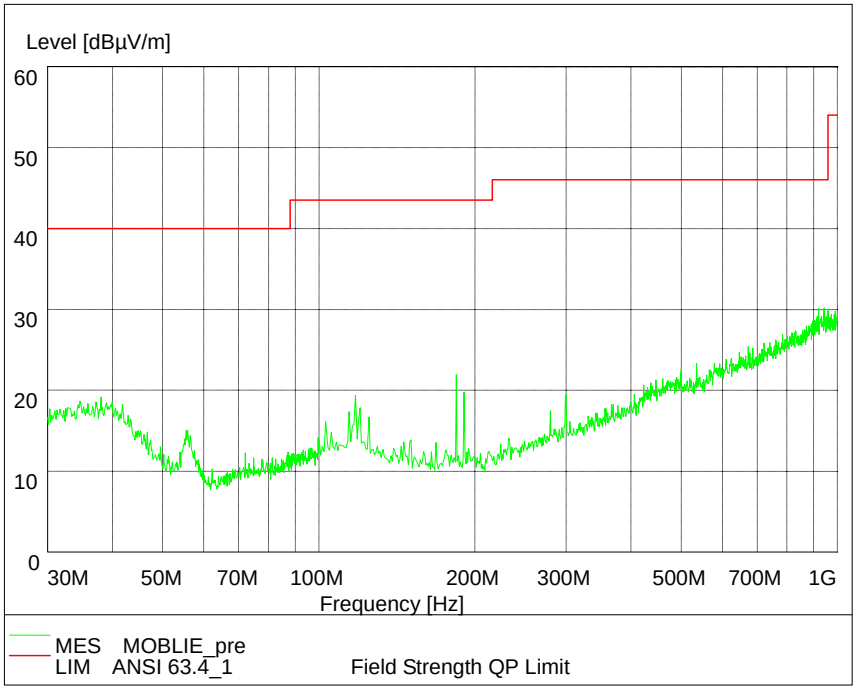


WCDMA BAND V (30MHz – 1GHz)

Note: The signal beyond the limit is the base station simulator carrier.

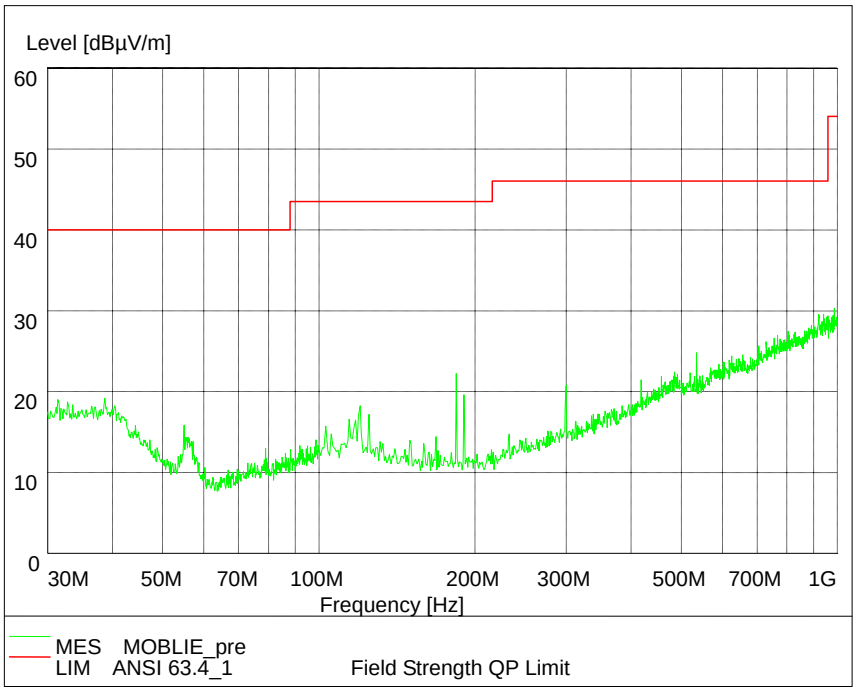


WCDMA BAND V(1GHz – 6GHz)

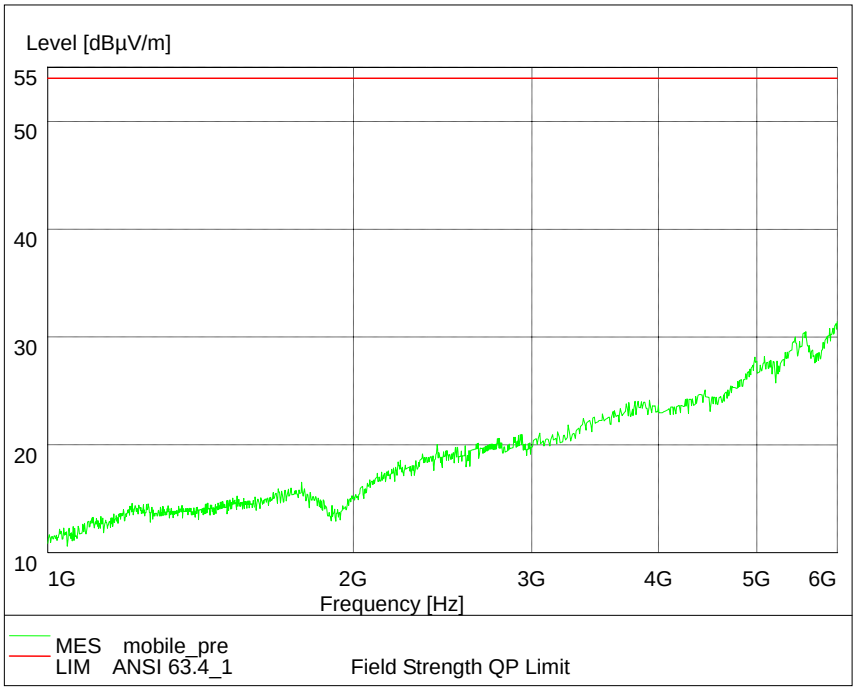


FM Radio (30MHz – 1GHz)

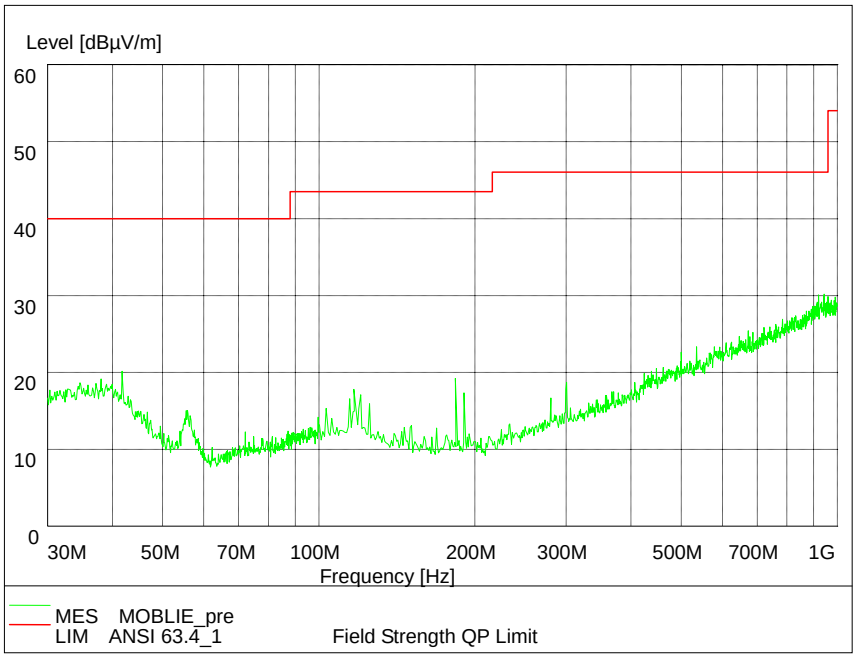
FM Radio (1GHz – 6GHz)



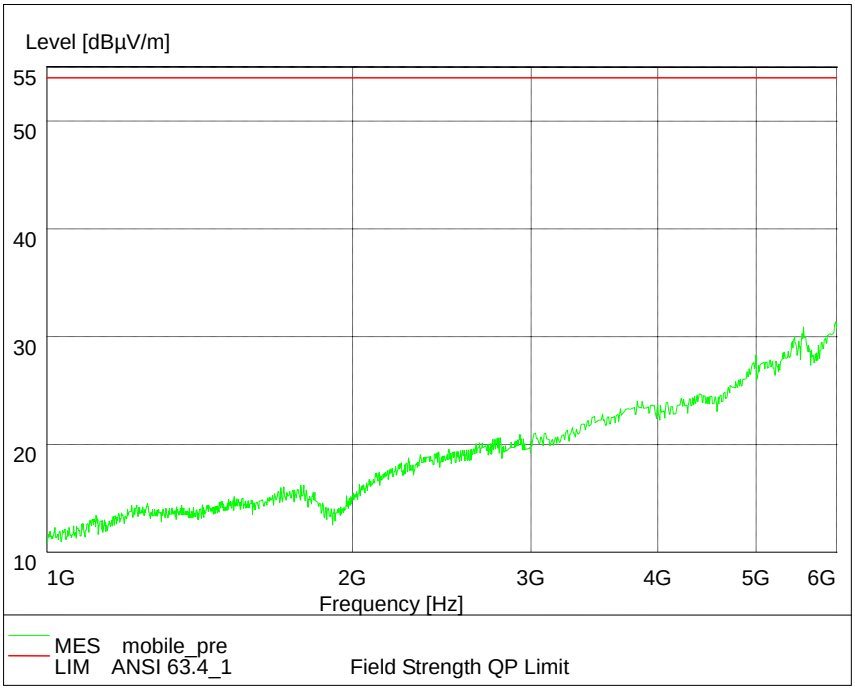
MP3/MP4 (30MHz – 1GHz)



MP3/MP4 (1GHz – 6GHz)



Camera (30MHz – 1GHz)



Camera (1GHz – 6GHz)

2.3. List of test equipments

No.	Name/Model	Manufacturer	S/N	Calibration Due Date
1	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	-----	19th Aug. 2011
2	ESI 40 EMI test receiver	R&S	100015	19th Aug. 2011
3	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19th Aug. 2011
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	19th Aug. 2011
5	ESCS30 EMI test receiver	R&S	100029	19th Aug. 2011
6	HL562 Ultra log test antenna	R&S	100016	19th Aug. 2011
7	ESH3-Z2 Pulse limiter	R&S	10002	19th Aug. 2011
8	ESH3-Z5 Attenuator	R&S	100020	19th Aug. 2011
9	ESH2Z11 LISN	R&S	50FH-020-10	19th Aug. 2011
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19th Aug. 2011
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19th Aug. 2011
12	PS2000 Turn Table	FRANKONIA	-----	19th Aug. 2011
13	MA260 Antenna Master	FRANKONIA	-----	19th Aug. 2011
14	ES-K1EMI test software	R&S	-----	19th Aug. 2011
15	HL562 Receive antenna	R&S	100167	19th Aug. 2011

Appendix

Tel: 86-10-68009202 68009203
Fax: 86-10-68009195 68009205