



TEST REPORT

Report No.: SRTC2014-H024-E0026

Product Name: GSM/GPRS/EDGE/UMTS

Digital Mobile Phone with Bluetooth and WiFi

Product Model: 6037I

Applicant: TCT Mobile Limited

Manufacturer: TCT Mobile Limited

Specification: FCC Part15B (Certification)

(October 1, 2009 edition)

FCC ID: RAD458

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

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

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1. General information

1.1 Notes of the test report

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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)
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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, C 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@tcl.com

1.4 Manufacturer's details

Company: TCT Mobile Limited
Address: 5F, C 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@tcl.com

1.5 Application details

Date of reception of test sample: 25th March 2014

Date of test: 25th March 2014 to 25th April 2014

1.6 Reference specification

FCC Part 15B October 1, 2009 (Certification)

1.7 Information of EUT

1.7.1 General information

Name of EUT	GSM/GPRS/EDGE/UMTS Digital Mobile Phone with Bluetooth and WiFi
FCC ID	RAD458
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 PCS1900:33.0dBm WCDMA:24.0dBm
E.R.P. & E.I.R.P.	E.R.P.:32.9dBm E.I.R.P.:30.2dBm
Modulation Type	GSM/GPRS:GMSK EDGE:GMSK/8PSK WCDMA:QPSK/16QAM (RX only)
Emission Designator	GSM/GPRS:300KGXW EDGE:300KG7W WCDMA:4M50F9W
Duplex Mode	FDD
Equipment Class	Class B
Duplex Spacing	GSM850/WCDMA Band V:45MHz PCS1900/WCDMA Band II:80MHz
Antenna Type	Fixed Internal
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: 4.35V
HW Version	PIO
SW Version	v3EHG-US

1.7.2 EUT details

Product Name	Product Model	IMEI
GSM/GPRS/EDGE/UMTS Digital Mobile Phone with Bluetooth and WiFi	60371	864191020900330

1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: Charger

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	one touch UC12US
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 2#: Charger

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	one touch UC12EU
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 3#: Charger

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	one touch UC12UK
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 4#: Battery

Equipment	Battery
Manufacturer	SCUD (FUJIAN) Electronics Co., Ltd.
Model Number	TLp020C2
Capacity	2000mAh
Rated Voltage	4.35V d.c.

AE (Auxiliary Equipment) 5#: Headset

Equipment	Headset
Manufacturer	Shenzhen Juwei Electronics Co., Ltd
Model Number	CCB3001A15C2

AE (Auxiliary Equipment) 6#: Headset

Equipment	Headset
Manufacturer	Shenzhen Juwei Electronics Co., Ltd
Model Number	CCB3001A14C2

AE (Auxiliary Equipment) 7#: Headset

Equipment	Headset
Manufacturer	Dongguan Superfine Electronic CO., Ltd
Model Number	CCB3001A15C4

AE (Auxiliary Equipment) 8#: Headset

Equipment	Headset
Manufacturer	Dongguan Superfine Electronic CO., Ltd
Model Number	CCB3001A14C4

AE (Auxiliary Equipment) 9#: Data Cable

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co., Ltd.
Model Number	CDA0000025C1

AE (Auxiliary Equipment) 10#: Data Cable

Equipment	Data Cable
Manufacturer	Shenzhen Juwei Electronics Co., Ltd.
Model Number	CDA0000025C2

Note:

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


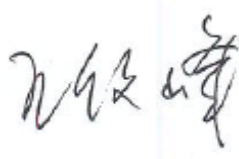

As the information described above, there are three different models of charger manufactured by the same company, four different models of headset manufactured by two different companies and two different models of data cable manufactured by two different companies.

The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of charger, one model of headset and one model of data cable) the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT exercised by the charger one touch UC12US, the headset CCB3001A15C2 and the data cable CDA0000025C1.

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. Gong Jian Test engineer 	Issued date: <p style="text-align: center;">2014.04.25</p>

2.2 Test result

2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
21.2°C	43.5%	100.9kPa

Test Setup:

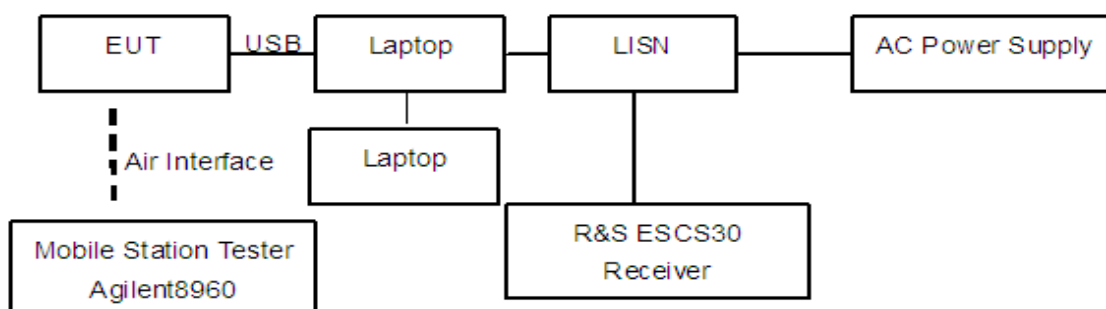


Figure 1

Test Procedure:

The EUT is placed on a non-metallic table 0.4m above the horizontal metal reference ground plane. The EUT connect with a laptop via the USB cable. The accessories of the EUT are connected with the EUT such as headset etc. During the test the data transferring via USB cable between EUT and laptop is maintained. The laptop's LAN port is connected with another laptop via cable. And the data transferring between two laptops is maintained.

The AC main power supply of the laptop is connected to LISN and LISN is connected to the reference ground. 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.

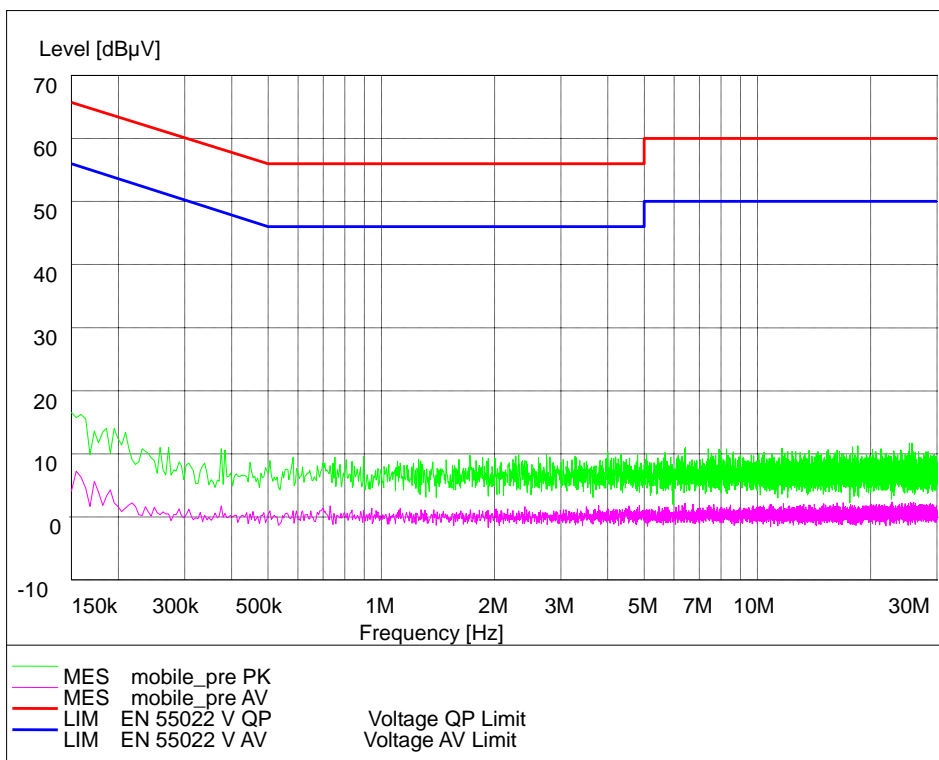
Limit:

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

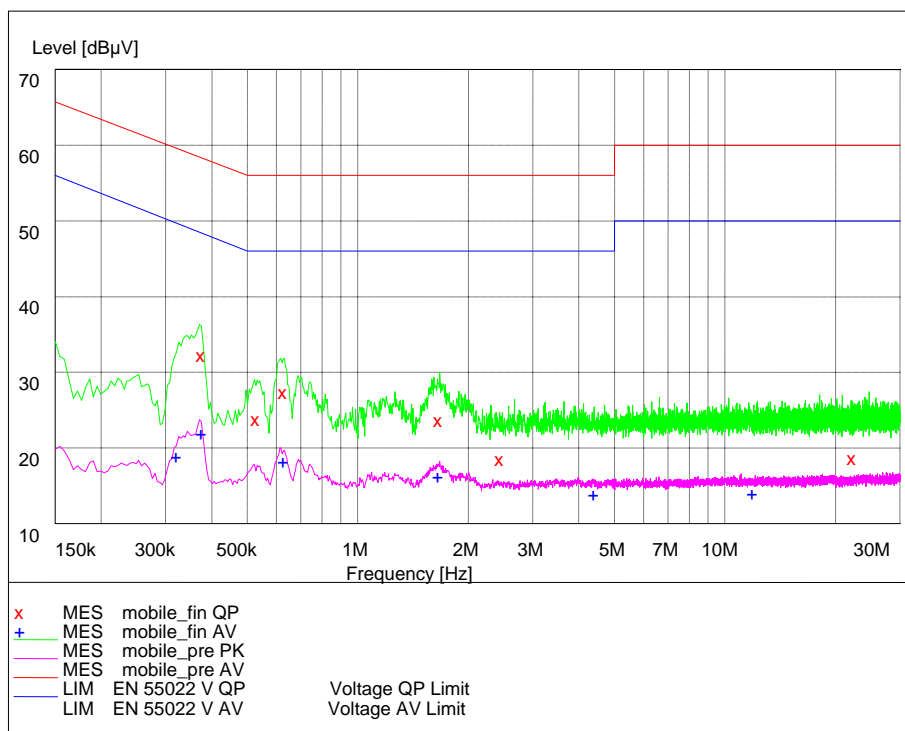
Test result:

Noise Level of The Measuring Instrument



L and N Line

GSM850 Laptop+ AE4#+AE5#+AE9#



L and N Line

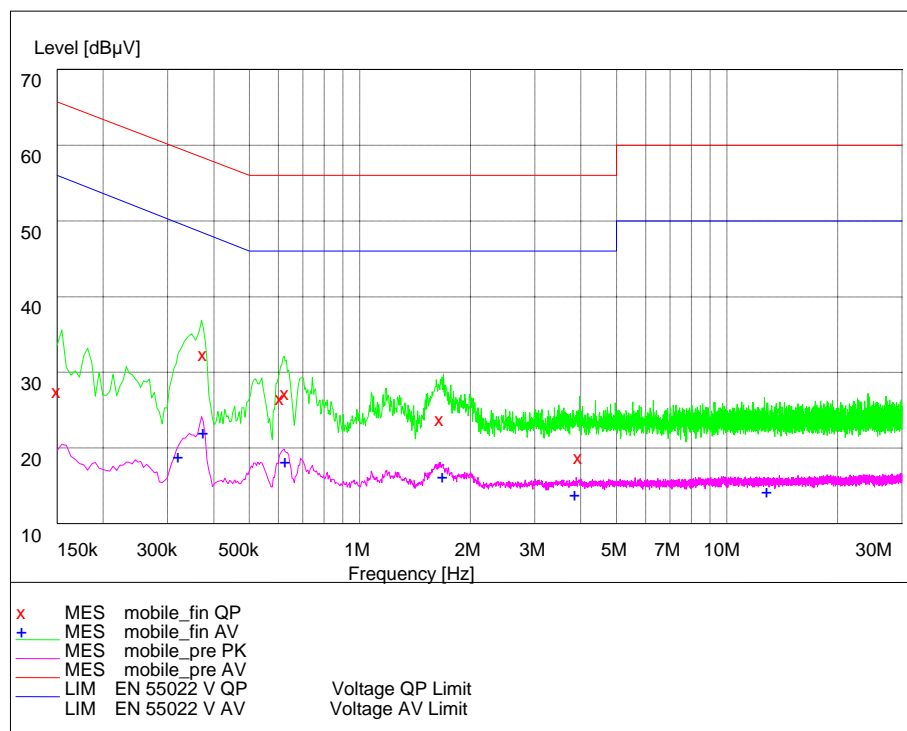
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dB	Margin dBμV	Line	PE
0.375000	33.70	20.2	58	24.6	L	---
0.528000	25.20	20.3	56	30.8	L	---
0.627000	28.80	20.3	56	27.2	L	---
1.662000	25.10	20.2	56	30.9	L	---
2.445000	19.90	20.3	56	36.1	L	---
22.245000	20.10	21.0	60	39.9	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dB	Margin dBμV	Line	PE
0.321000	20.30	20.2	50	29.4	L	---
0.375000	23.40	20.2	48	25.0	L	---
0.627000	19.70	20.3	46	26.3	L	---
1.653000	17.70	20.2	46	28.3	L	---
4.389000	15.40	20.4	46	30.6	N	---
11.877000	15.50	20.7	50	34.5	L	---

PCS1900 Laptop+ AE4#+AE5#+AE9#



L and N Line

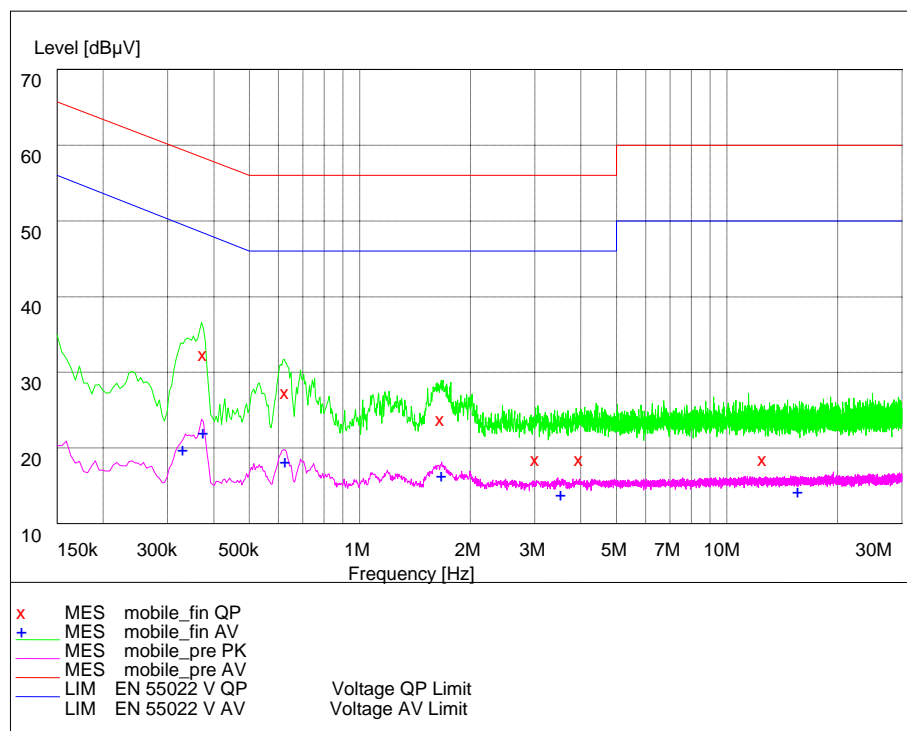
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.150000	28.90	20.1	66	36.8	L	---
0.375000	33.80	20.2	58	24.6	L	---
0.609000	28.00	20.3	56	28.0	L	---
0.627000	28.70	20.3	56	27.3	L	---
1.653000	25.20	20.2	56	30.8	L	---
3.948000	20.20	20.3	56	35.8	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.321000	20.30	20.2	50	29.4	L	---
0.375000	23.50	20.2	48	24.9	L	---
0.627000	19.70	20.3	46	26.3	L	---
1.680000	17.70	20.2	46	28.3	L	---
3.858000	15.40	20.3	46	30.6	L	---
12.876000	15.70	20.8	50	34.3	L	---

WCDMA BAND II Laptop+ AE4#+AE5#+AE9#



L and N Line

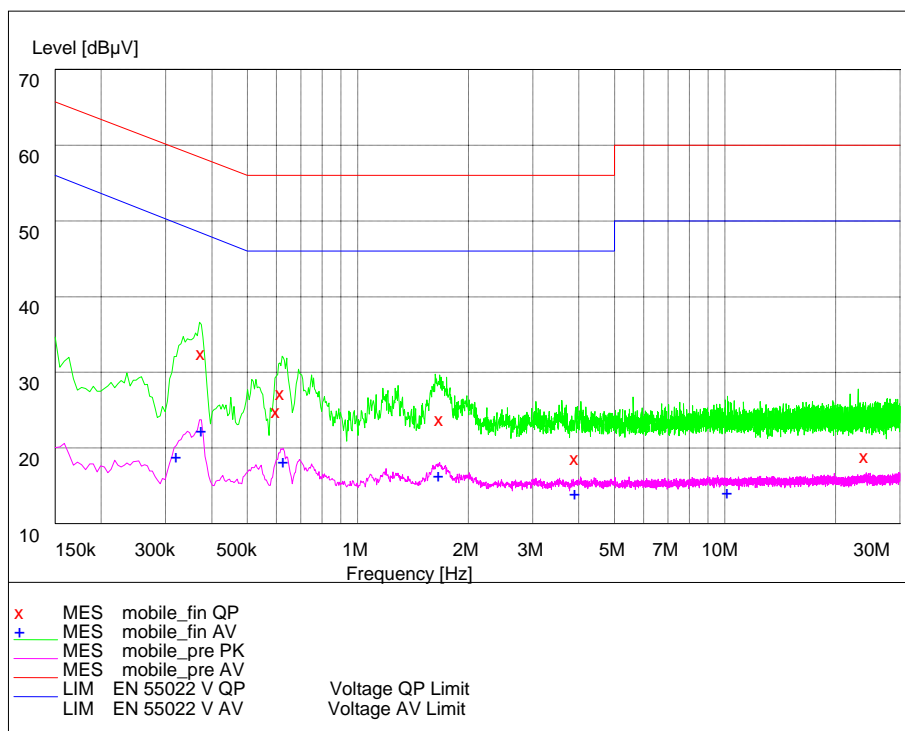
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.375000	33.80	20.2	58	24.5	L	---
0.627000	28.80	20.3	56	27.2	L	---
1.662000	25.20	20.2	56	30.8	L	---
3.012000	19.90	20.3	56	36.1	L	---
3.966000	19.90	20.3	56	36.1	L	---
12.552000	20.00	20.7	60	40.0	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.330000	21.30	20.2	50	28.2	L	---
0.375000	23.50	20.2	48	24.9	L	---
0.627000	19.70	20.3	46	26.3	L	---
1.671000	17.80	20.2	46	28.2	L	---
3.534000	15.40	20.3	46	30.6	L	---
15.630000	15.70	20.8	50	34.3	N	---

WCDMA BAND V Laptop+ AE4#+AE5#+AE9#



L and N Line

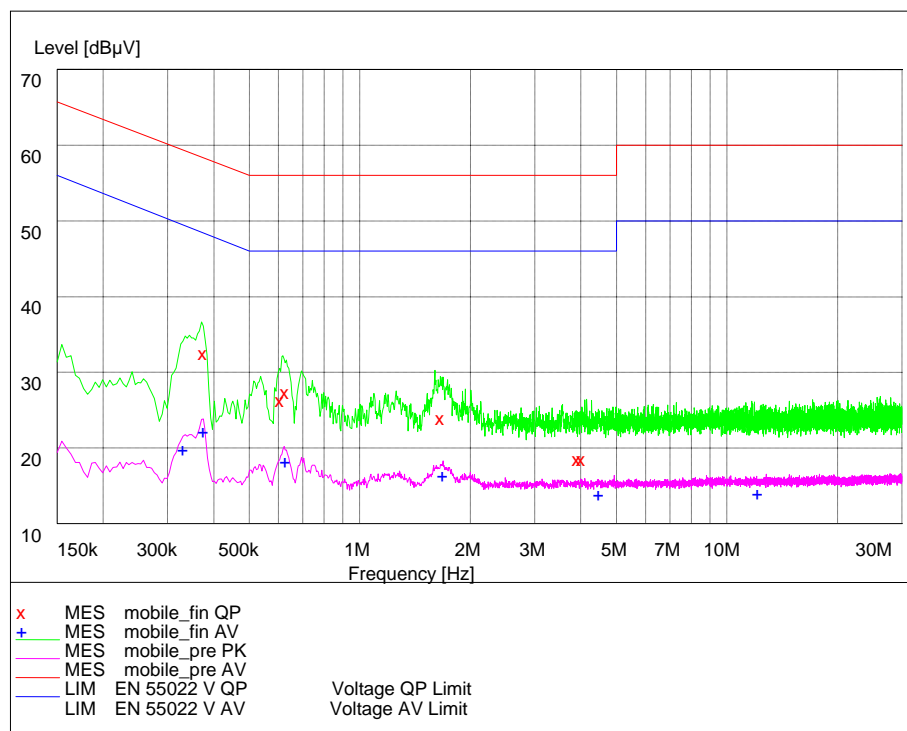
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.375000	34.00	20.2	58	24.4	L	---
0.600000	26.30	20.3	56	29.7	L	---
0.618000	28.70	20.3	56	27.3	L	---
1.671000	25.20	20.2	56	30.8	L	---
3.912000	20.10	20.3	56	35.9	L	---
24.045000	20.40	21.0	60	39.6	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.321000	20.30	20.2	50	29.4	L	---
0.375000	23.80	20.2	48	24.6	L	---
0.627000	19.70	20.3	46	26.3	L	---
1.662000	17.80	20.2	46	28.2	L	---
3.912000	15.50	20.3	46	30.5	L	---
10.176000	15.60	20.6	50	34.4	L	---

FM Radio Laptop+ AE4#+AE5#+AE9#



L and N Line

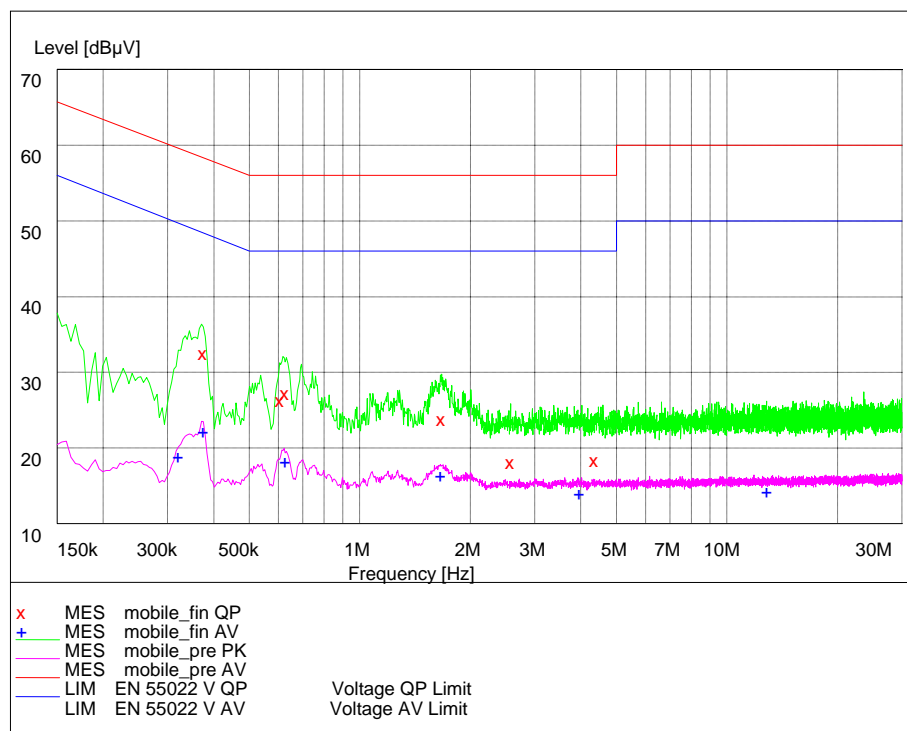
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.375000	34.00	20.2	58	24.3	L	---
0.609000	27.80	20.3	56	28.2	L	---
0.627000	28.80	20.3	56	27.2	L	---
1.662000	25.40	20.2	56	30.6	L	---
3.921000	19.90	20.3	56	36.1	L	---
4.020000	20.00	20.3	56	36.0	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.330000	21.30	20.2	50	28.2	L	---
0.375000	23.70	20.2	48	24.7	L	---
0.627000	19.70	20.3	46	26.3	L	---
1.680000	17.80	20.2	46	28.2	L	---
4.479000	15.40	20.4	46	30.6	L	---
12.129000	15.50	20.7	50	34.5	L	---

MP3/MP4 Laptop+ AE4#+AE5#+AE9#



L and N Line

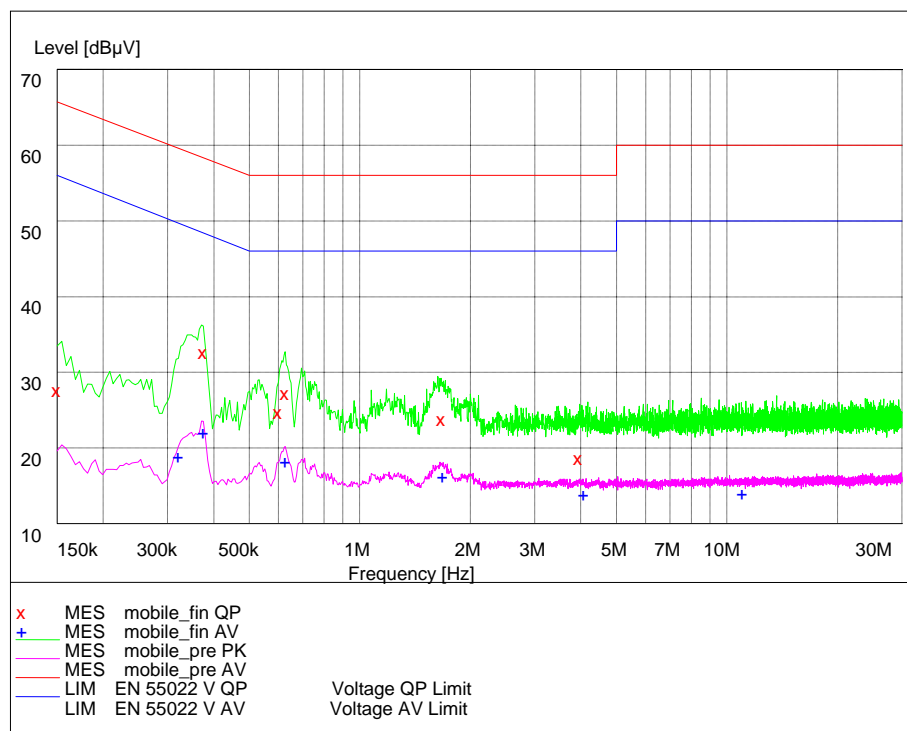
MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.375000	34.00	20.2	58	24.4	L	---
0.609000	27.80	20.3	56	28.2	L	---
0.627000	28.70	20.3	56	27.3	L	---
1.671000	25.20	20.2	56	30.8	L	---
2.580000	19.60	20.3	56	36.4	L	---
4.362000	19.80	20.4	56	36.2	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.321000	20.30	20.2	50	29.4	L	---
0.375000	23.70	20.2	48	24.7	L	---
0.627000	19.70	20.3	46	26.3	L	---
1.662000	17.80	20.2	46	28.2	L	---
3.966000	15.50	20.3	46	30.5	N	---
12.867000	15.70	20.8	50	34.3	L	---

Camera Laptop+ AE4#+AE5#+AE9#



L and N Line

MEASUREMENT RESULT: "MOBILE_fin QP"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.150000	29.10	20.1	66	36.6	L	---
0.375000	34.10	20.2	58	24.3	L	---
0.600000	26.20	20.3	56	29.8	L	---
0.627000	28.70	20.3	56	27.3	L	---
1.671000	25.30	20.2	56	30.7	L	---
3.957000	20.10	20.3	56	35.9	L	---

MEASUREMENT RESULT: "MOBILE_fin AV"

Frequency MHz	Level dBμV	Transd	Limit dB	Margin dBμV	Line	PE
0.321000	20.30	20.2	50	29.4	L	---
0.375000	23.60	20.2	48	24.8	L	---
0.627000	19.70	20.3	46	26.3	N	---
1.680000	17.70	20.2	46	28.3	L	---
4.074000	15.40	20.4	46	30.6	L	---
11.022000	15.50	20.7	50	34.5	L	---

2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
21.2°C	43.5%	100.9kPa

Test Setup:

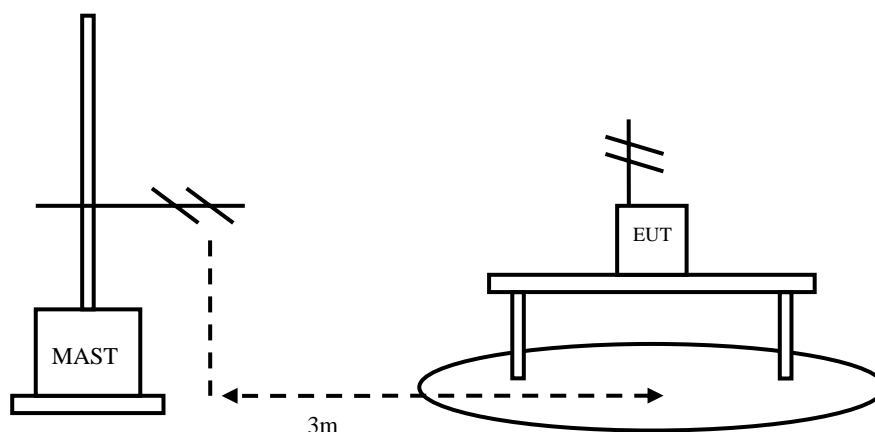


Figure 2

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:

$$\text{Result} = P_{\text{mea}} + A_{Rpl}$$

Limit:

Frequency of Emission(MHz)	Limits	
	Detector	Unit (dB μ V/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	54
	Peak	74

Test result:

GSM850 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
64.789579	17.8	6.1	11.7	Vertical
85.551102	16.6	8.0	8.6	Horizontal
168.13627	12.4	7.4	5.0	Vertical
174.5491	7.9	7.7	0.2	Vertical
184.16834	25.7	7.9	17.8	Vertical
607.21443	19.8	19.3	0.5	Vertical

PCS1900 Mode

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity
65.350701	15.6	6.1	9.5	Vertical
85.551102	16.0	8.0	8.0	Vertical
168.13627	13.9	7.4	6.5	Vertical
174.5491	8.0	7.7	0.3	Vertical
184.16834	25.9	7.9	18.0	Vertical
786.57315	21.0	22.2	-1.2	Vertical

WCDMA BAND II Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
65.07014	17.6	6.1	11.5	Vertical
85.551102	16.0	8.0	8.0	Vertical
168.13627	12.8	7.4	5.4	Horizontal
174.5491	8.6	7.7	0.9	Vertical
184.16834	26.4	7.9	18.5	Vertical
951.90381	23.5	24.4	-0.9	Vertical

WCDMA BAND V Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
63.527054	17.5	5.9	11.6	Vertical
79.378758	13.2	7.6	5.6	Vertical
85.551102	15.9	8.0	7.9	Vertical
174.5491	8.7	7.7	1.0	Vertical
184.16834	26.2	7.9	18.3	Vertical
605.21042	19.7	19.3	0.4	Vertical

FM Radio Mode

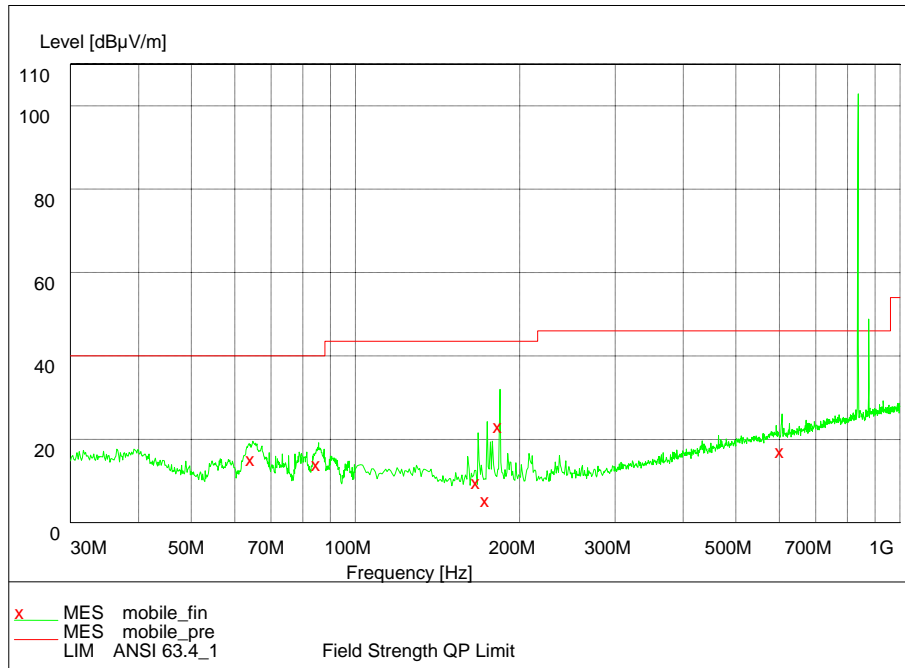
Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
65.350701	17.4	6.1	11.3	Vertical
85.691383	15.7	8.0	7.7	Vertical
168.13627	13.4	7.4	6.0	Horizontal
174.5491	7.0	7.7	-0.7	Vertical
184.16834	26.0	7.9	18.1	Vertical
872.74549	22.3	23.5	-1.2	Vertical

MP3/MP4 Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
65.210421	17.8	6.1	11.7	Vertical
85.831663	16.2	8.0	8.2	Vertical
168.13627	12.7	7.4	5.3	Vertical
174.5491	7.0	7.7	-0.7	Vertical
184.16834	26.4	7.9	18.5	Vertical
949.8998	23.4	24.4	-1.0	Vertical

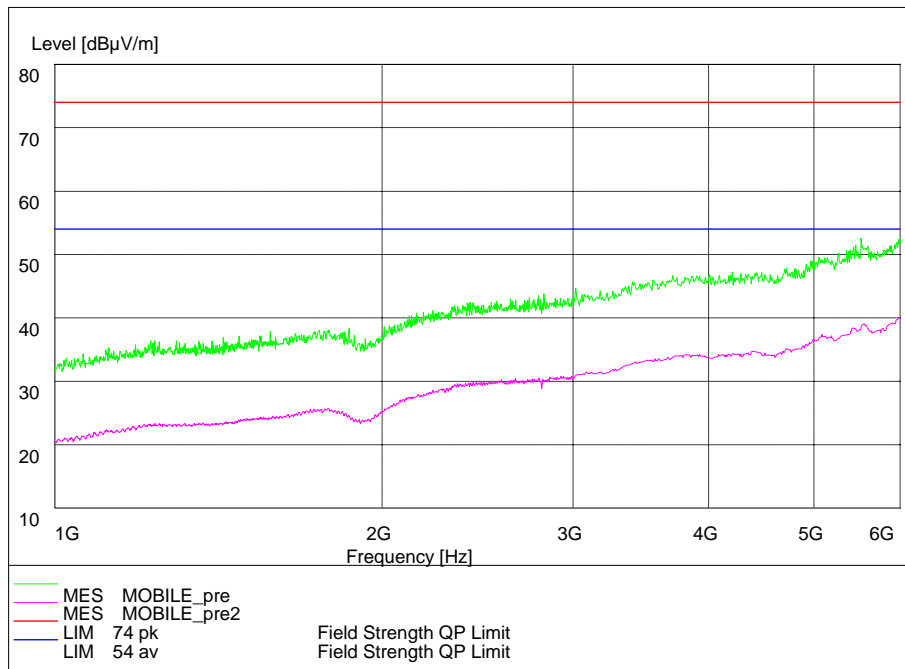
Camera Mode

Frequency(MHz)	Result(dBuV/m)	A _{Rpl} (dB)	P _{mea} (dBuV/m)	Polarity
39.819639	12.7	15.8	-3.1	Vertical
64.789579	15.3	6.1	9.2	Vertical
85.410822	15.8	8.0	7.8	Vertical
174.5491	7.2	7.7	-0.5	Horizontal
184.16834	26.0	7.9	18.1	Vertical
897.79559	22.7	23.9	-1.2	Vertical

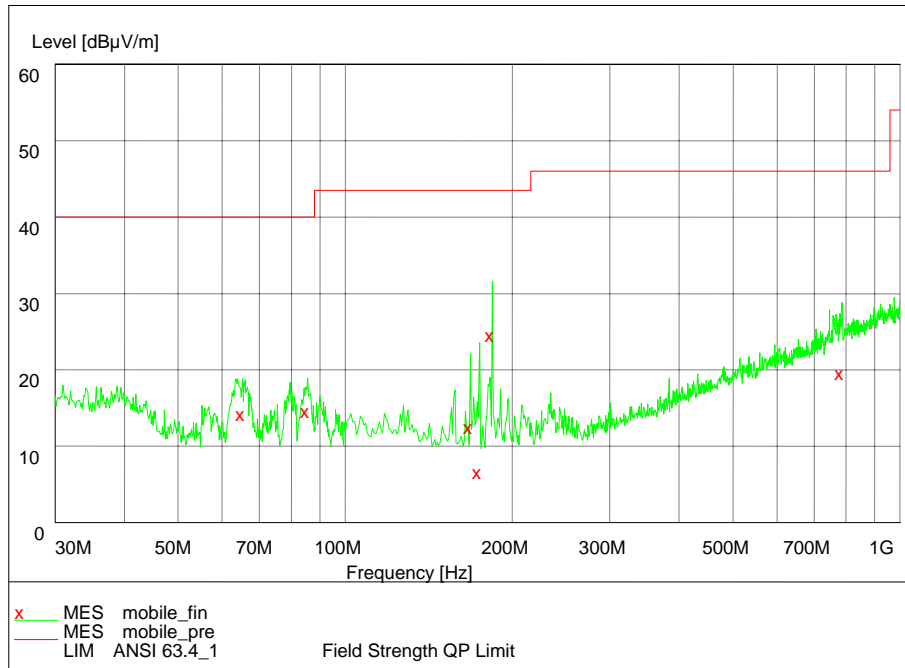


GSM850 (30MHz – 1GHz)

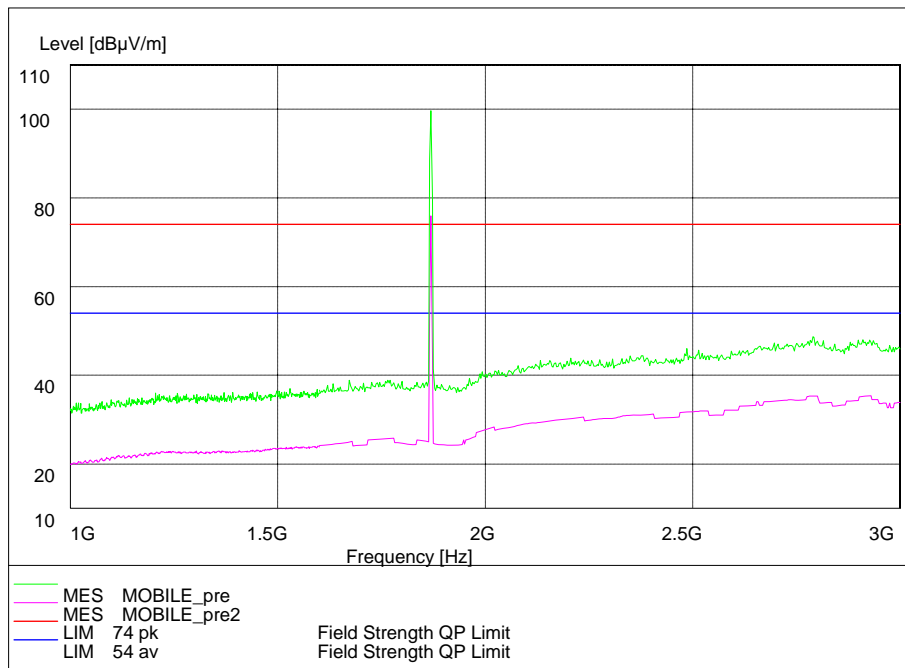
Note: The signal beyond the limit is the base station simulator carrier.



GSM850 (1GHz – 6GHz)

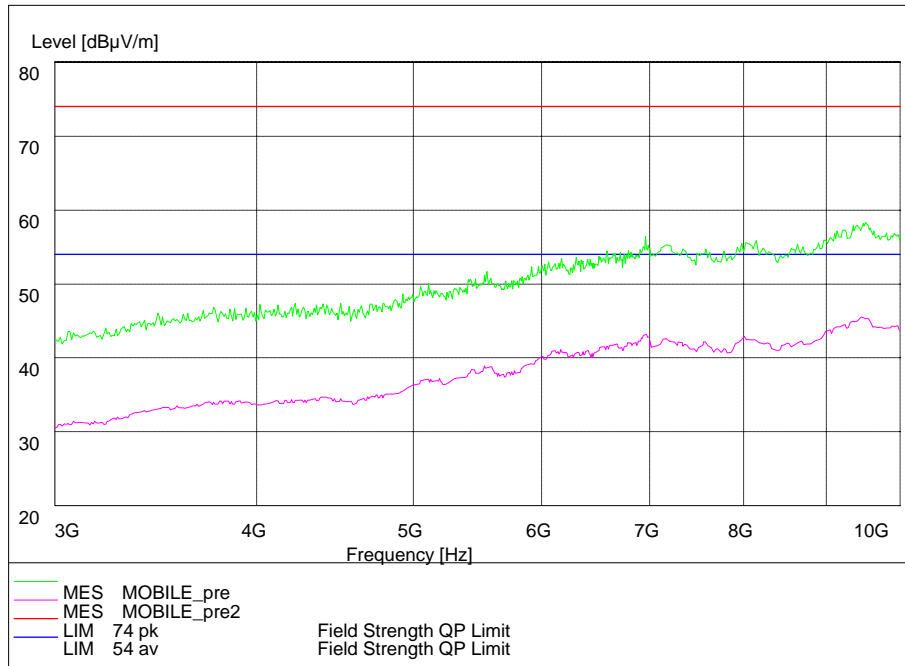


PCS1900 (30MHz – 1GHz)

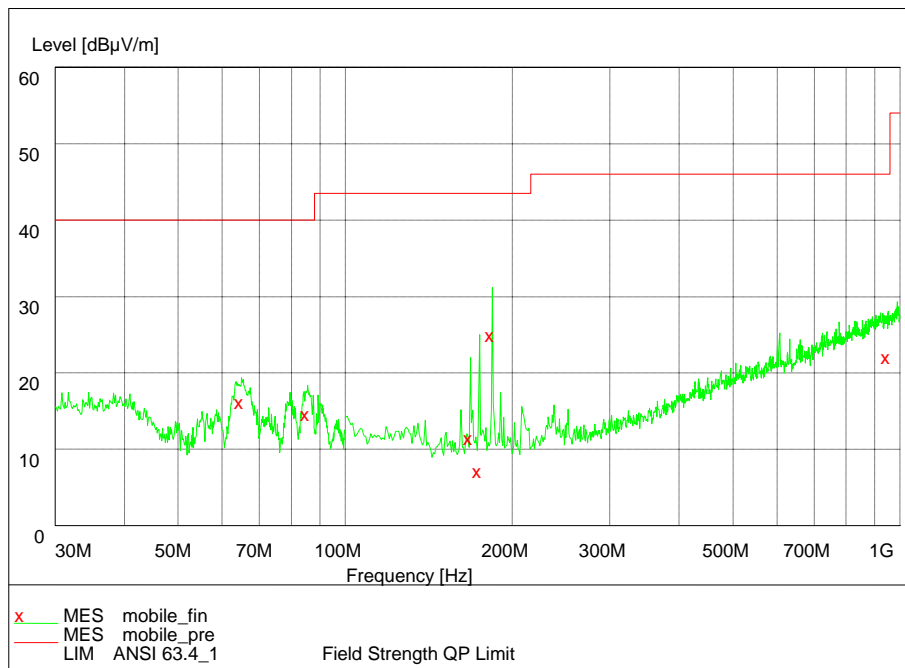


PCS1900 (1GHz – 3GHz)

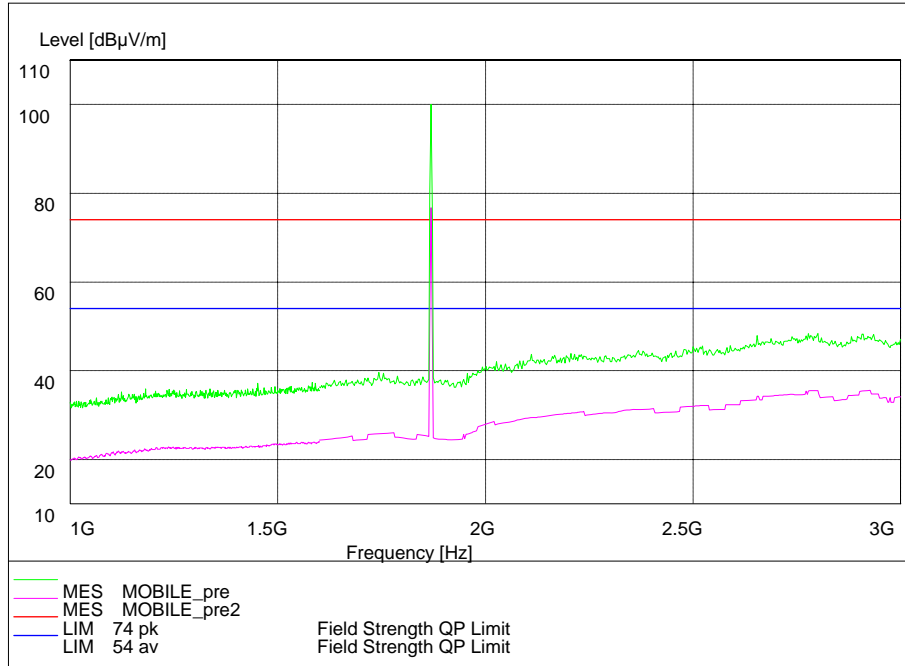
Note: The signals beyond the limit are the base station and simulator carrier.



PCS1900 (3GHz – 10GHz)

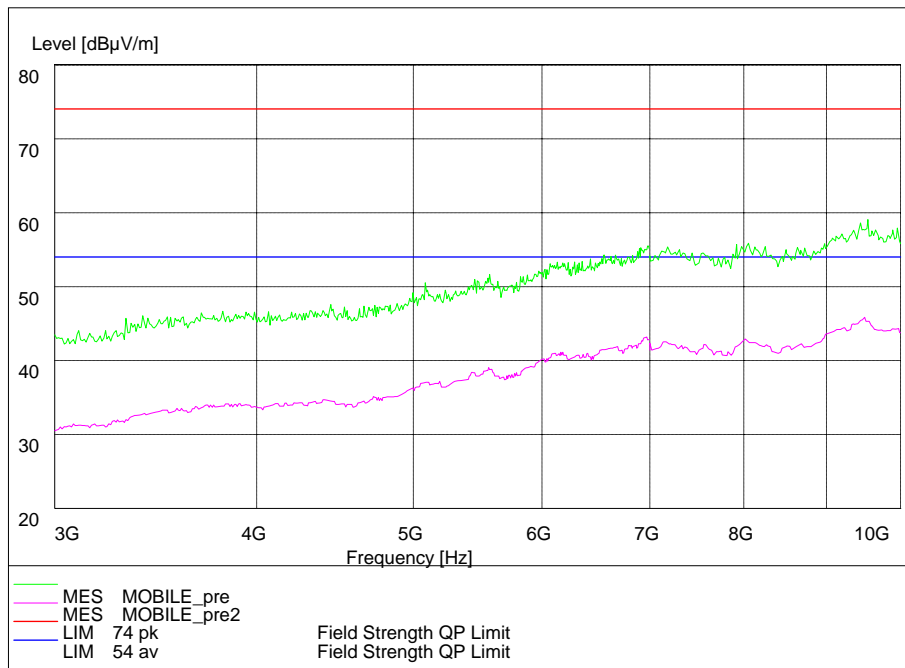


WCDMA BAND II (30MHz – 1GHz)

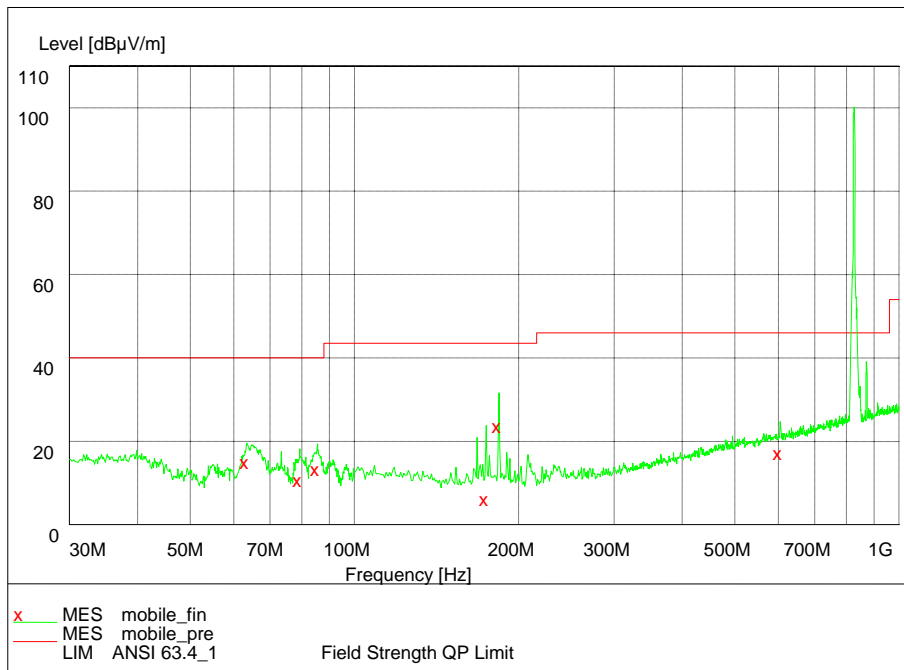


WCDMA BAND II (1GHz – 3GHz)

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

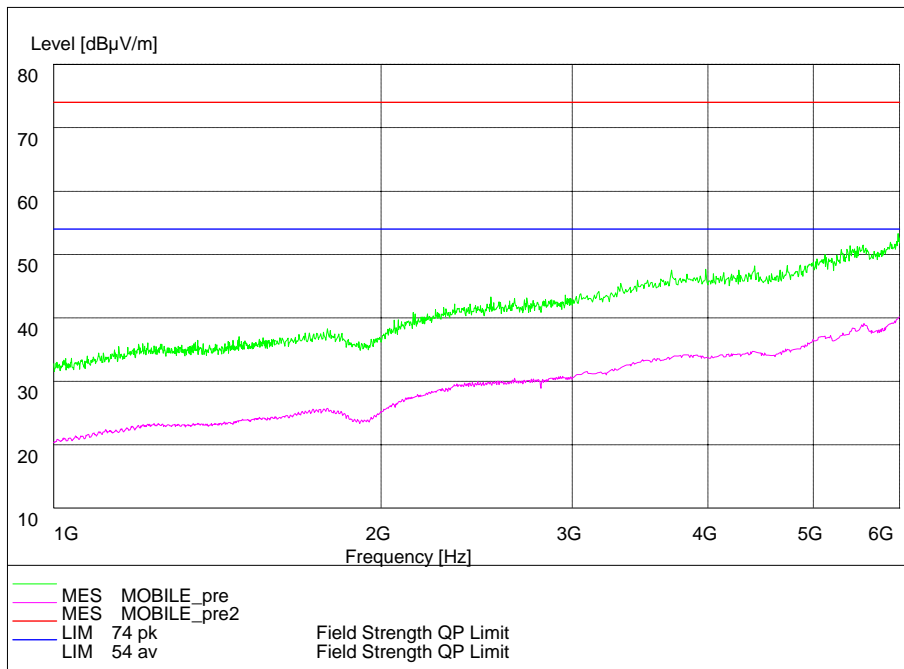


WCDMA BAND II (3GHz – 10GHz)

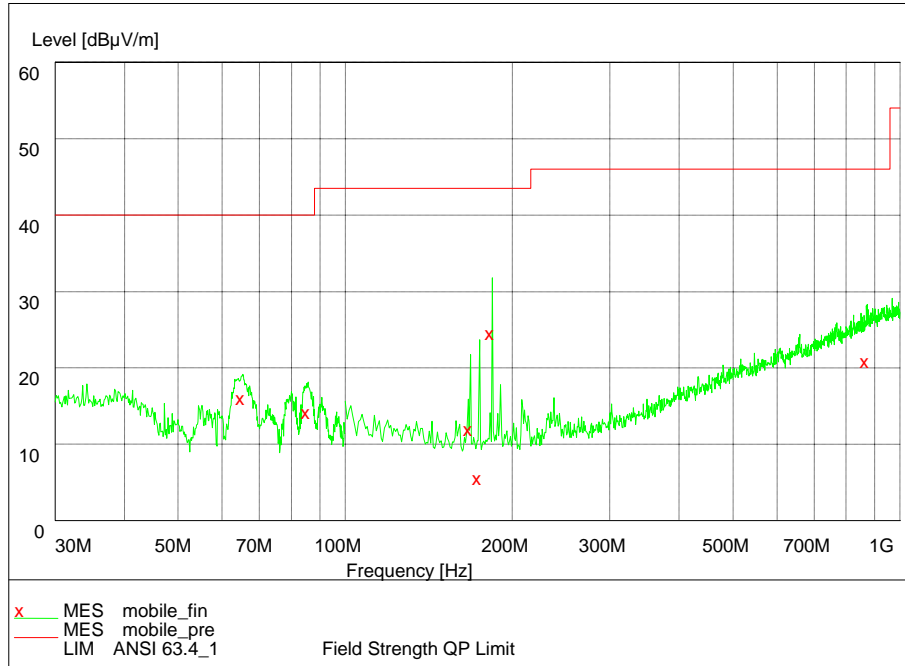


WCDMA BAND V (30MHz – 1GHz)

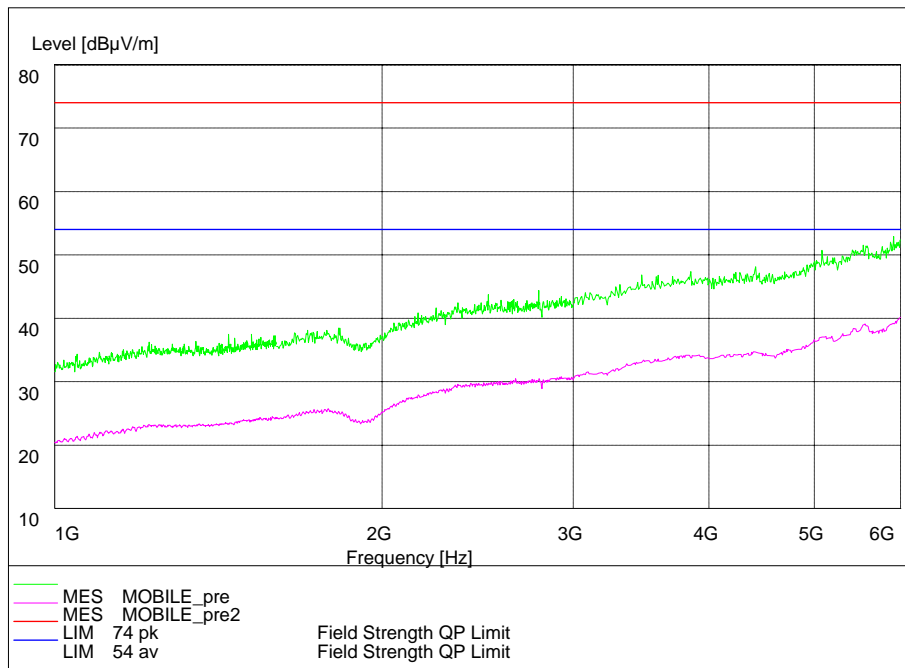
Note: The signals beyond the limit are the base station and simulator carrier.



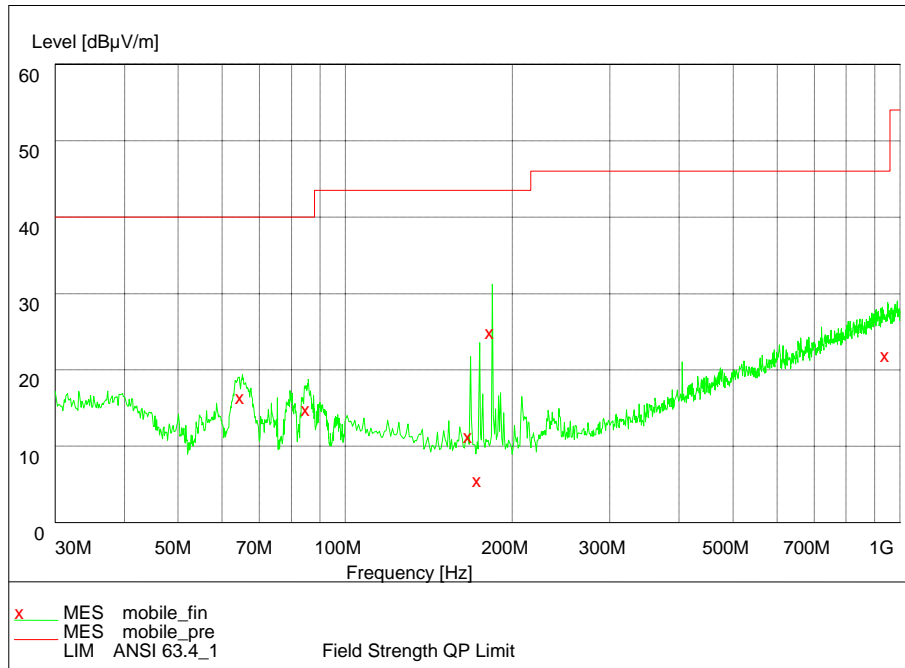
WCDMA BAND V (1GHz – 6GHz)



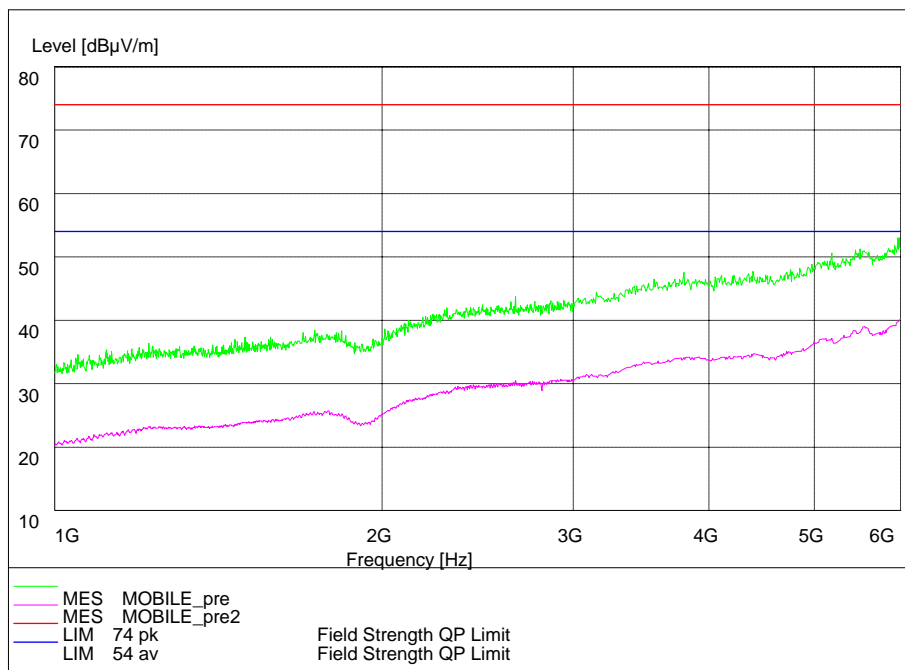
FM Radio (30MHz – 1GHz)



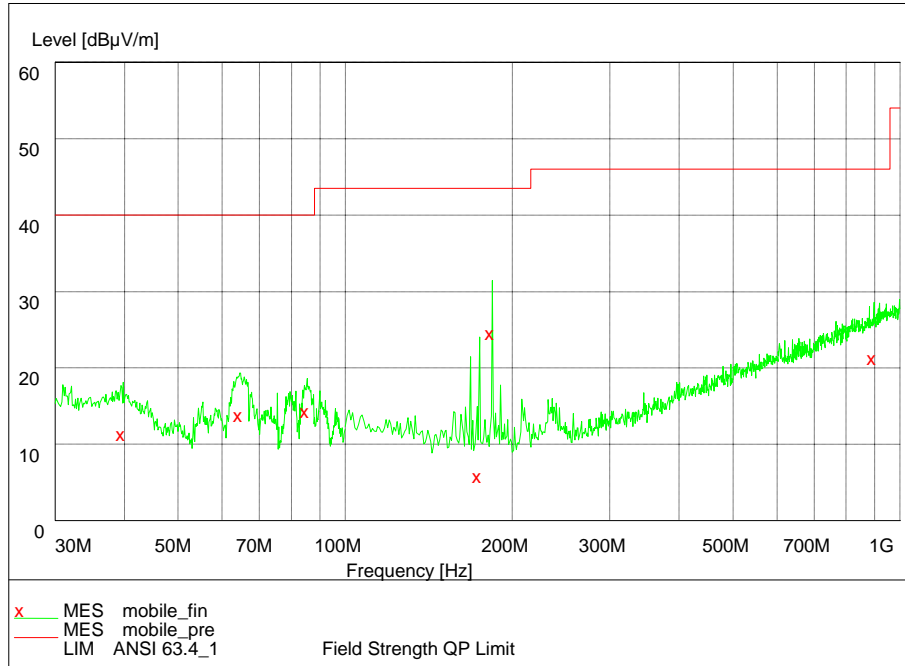
FM Radio (1GHz – 6GHz)



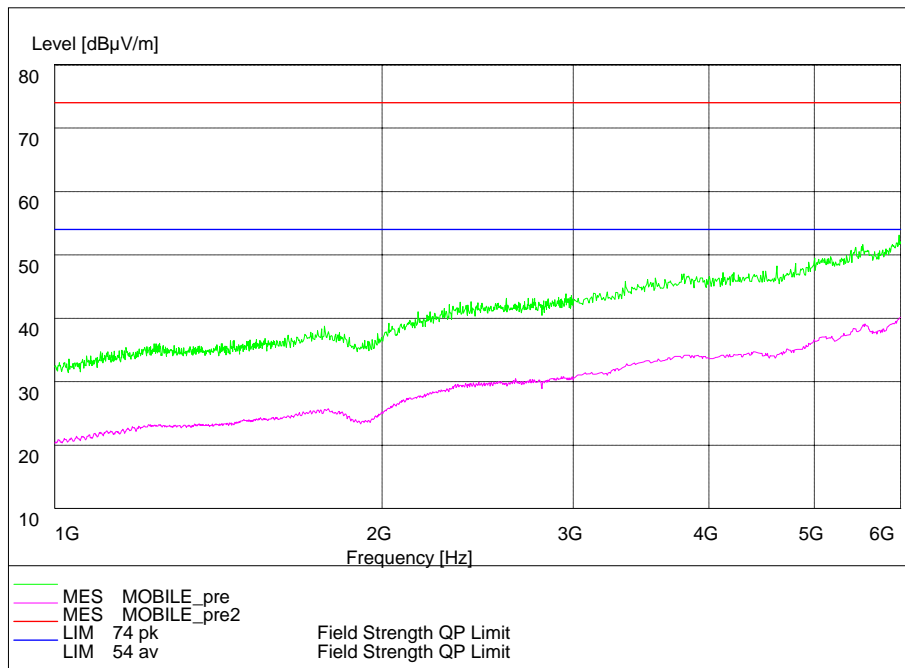
MP3/MP4 (30MHz – 1GHz)



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	-----	19 th Aug. 2014
2	ESI 40 EMI test receiver	R&S	100015	19 th Aug. 2014
3	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19 th Aug. 2014
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	19 th Aug. 2014
5	ESCS30 EMI test receiver	R&S	100029	19 th Aug. 2014
6	HL562 Ultra log test antenna	R&S	100016	19 th Aug. 2014
7	ESH3-Z2 Pulse limiter	R&S	10002	19 th Aug. 2014
8	ESH3-Z5 Attenuator	R&S	100020	19 th Aug. 2014
9	ESH2Z11 LISN	R&S	50FH-020-10	19 th Aug. 2014
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19 th Aug. 2014
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19 th Aug. 2014
12	PS2000 Turn Table	FRANKONIA	-----	19 th Aug. 2014
13	MA260 Antenna Master	FRANKONIA	-----	19 th Aug. 2014
14	ES-K1EMI test software	R&S	-----	19 th Aug. 2014
15	HL562 Receive antenna	R&S	100167	19 th Aug. 2014

Appendix

Appendix1 Test Setup