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# TEST REPORT

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Report No.: SRTC2011-H024-E0012

Product Name: GSM/GPRS/EDGE/WCDMA

Digital Mobile Phone with Bluetooth

Marketing Name: one touch 905A

Product Model: MINI3G A

Applicant: TCT Mobile Limited

Manufacturer: TCT Mobile Limited

Specification: FCC Part15B (Certification)

(October 1, 2009 edition)

FCC ID: RAD153

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  
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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: 16<sup>th</sup> Feb 2011

Date of test: 24<sup>th</sup> Feb 2011 to 26<sup>th</sup> April 2011

## 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/WCDMA Digital Mobile Phone with Bluetooth
FCC ID	RAD153
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 Band II:24.0dBm WCDMA Band V:24.0dBm
E.R.P. & E.I.R.P.	E.R.P.: 30.2dBm E.I.R.P.: 27.1dBm
Modulation type	GSM/GPRS:GMSK EDGE:8PSK WCDMA:QPSK
Emission Designator	GSM:300KGXW GPRS/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	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	PIO
SW Version	sw132

### 1.7.2 EUT details

Product Name	Marketing Name	Product Model	IMEI
GSM/GPRS/EDGE/WCDMA Digital Mobile Phone with Bluetooth	one touch 905A	MINI3G A	012525000006769

### 1.7.3 Auxiliary equipment details

AE (Auxiliary Equipment) 1#: 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) 2#: Charger

Equipment	Charger
Manufacturer	HUIZHOU BYD ELECTRONIC CO., LTD.
Model Number	CBA3120AG0C1
Input Voltage	100V-240V a.c.
Output Voltage	5.0V d.c.
Frequency	50/60Hz

AE (Auxiliary Equipment) 3#: Battery

Equipment	Battery
Manufacturer	BYD LITHIUM BATTERY CO., LTD.
Model Number	CAB3120000C1
Capacity	850mAh
Rated Voltage	3.7V d.c.

AE (Auxiliary Equipment) 4#: Battery

Equipment	Battery
Manufacturer	TIANJIN LISHEN BATTERY JOINT-STOCK CO.,LTD
Model Number	CAB3120000C2
Capacity	850mAh
Rated Voltage	3.7V d.c.

AE (Auxiliary Equipment) 5#: Data Cable

Equipment	Data Cable
Manufacturer	Shen Zhen Ju Wei Electronic Co., LTD.
Model Number	CDA3122001C1
Length	120 cm

AE (Auxiliary Equipment) 6#: Data Cable

Equipment	Data Cable
Manufacturer	Huizhou Shenghua Industry Co., Ltd.
Model Number	CDA3122001C2
Length	120 cm

AE (Auxiliary Equipment) 7#: Headset

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

AE (Auxiliary Equipment) 8#: Headset

Equipment	Headset
Manufacturer	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
Model Number	CCB3160A10C3

Note:

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


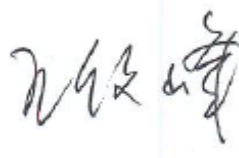

As the information described above, there are two different models of battery manufactured by two different companies, and two different models of headset manufactured by two different companies.

The relevant tests have been performed in order to verify in which combination case (EUT exercised by only one model of battery 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 the battery CAB3120000C1 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:  <p style="text-align: center;"><b>2011.05.03</b></p>

## 2.2 Test result

### 2.2.1 Conducted Emissions-FCC Part15.107

Ambient condition:

Temperature	Relative humidity	Pressure
19.3°C	49%	99.8kPa

Test Setup:

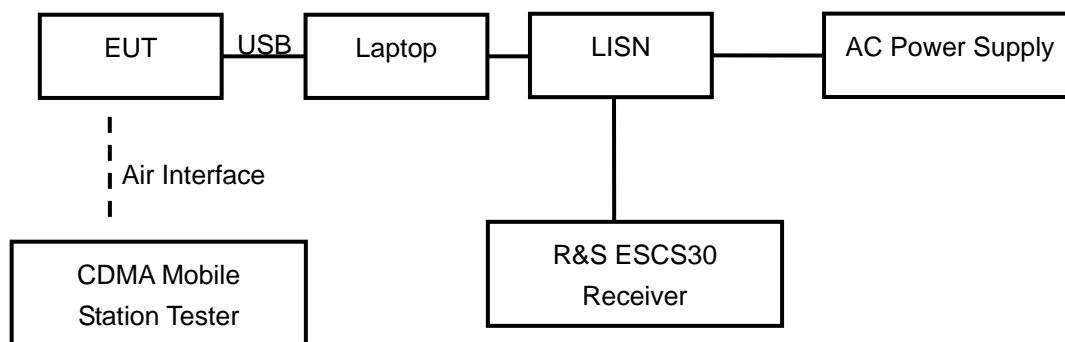


Figure 1

Test Procedure:

The EUT is placed on a non-metallic table 0.8m 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 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 reciever 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:

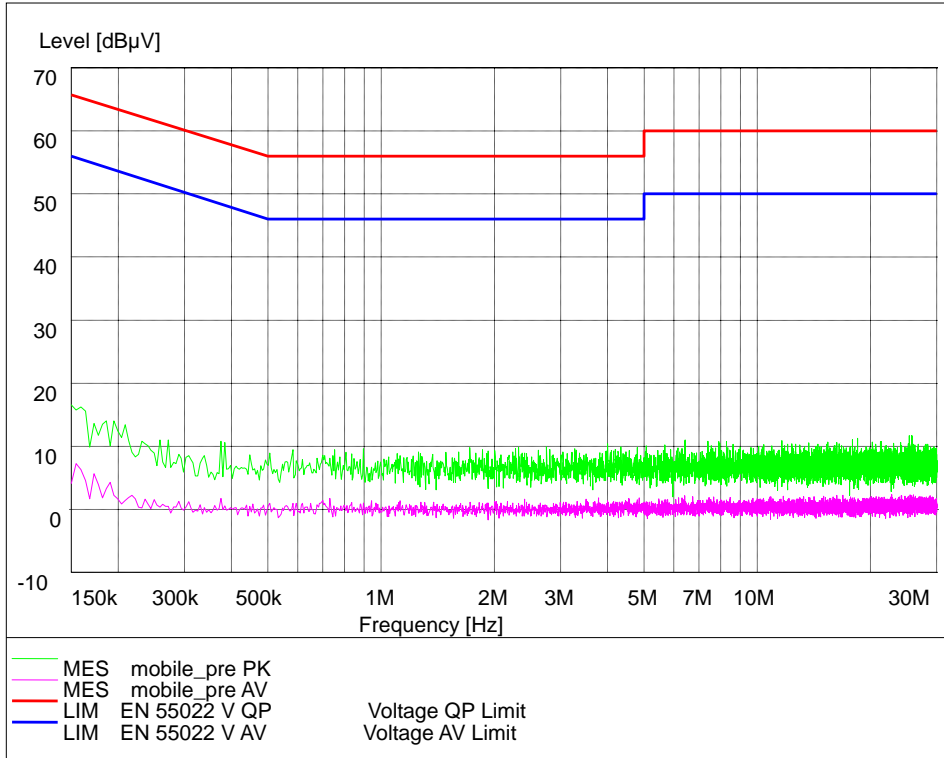
Frequency of Emission(MHz)	Limits(dB $\mu$ V)	
	Quasi-peak	Average
0.15~0.5	66 to 56*	56 to 46*
0.5~5	56	46
5~30	60	50

Note: \* Decreases with the logarithm of the frequency

Test result:

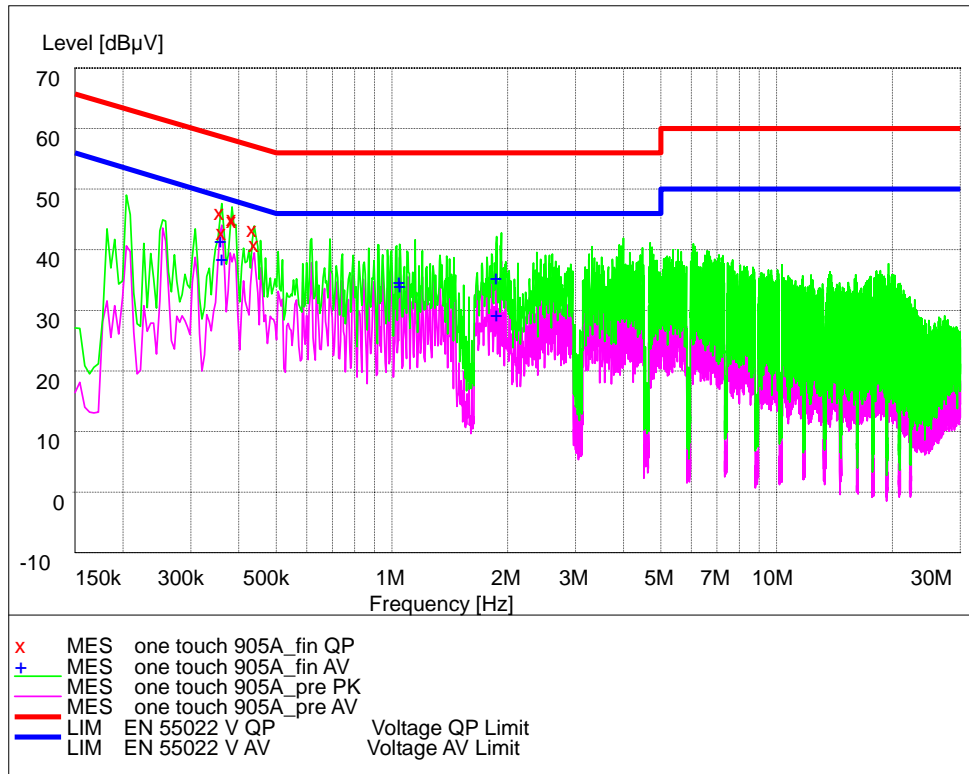
Refer to the following figures.

Noise Level of the Measuring Instrument



L and N Line

GSM 850 Laptop+AE3#+AE5#+AE7#



L and N Line

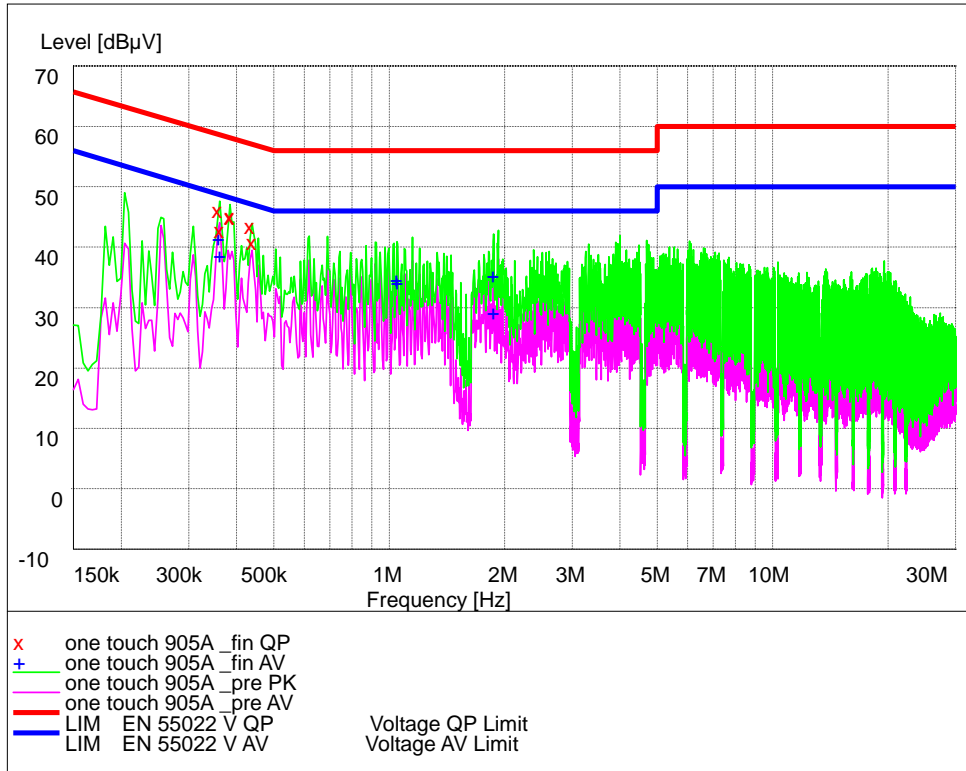
**MEASUREMENT RESULT: "one touch 905A\_fin QP"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.354500	46.80	20.1	59	12.2	N	GND
0.361300	43.40	20.1	59	15.6	L1	GND
0.376200	45.20	20.1	58	12.8	N	GND
0.376300	45.10	20.1	58	12.9	L1	GND
0.422400	44.50	20.1	57	12.5	N	GND
0.438800	40.90	20.1	57	16.1	N	GND

**MEASUREMENT RESULT: "one touch 905A\_fin AV"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµ	dB	dBµV	dB		
0.362100	42.70	20.1	49	6.3	L1	GND
0.362500	39.40	20.1	49	9.6	N	GND
1.141300	35.60	20.0	46	10.4	N	GND
1.146100	35.30	20.0	46	10.7	N	GND
1.916400	36.20	20.0	46	9.8	L1	GND
1.916100	29.80	20.0	46	16.2	N	GND

GSM 850 Laptop+AE3#+AE6#+AE7#



L and N Line

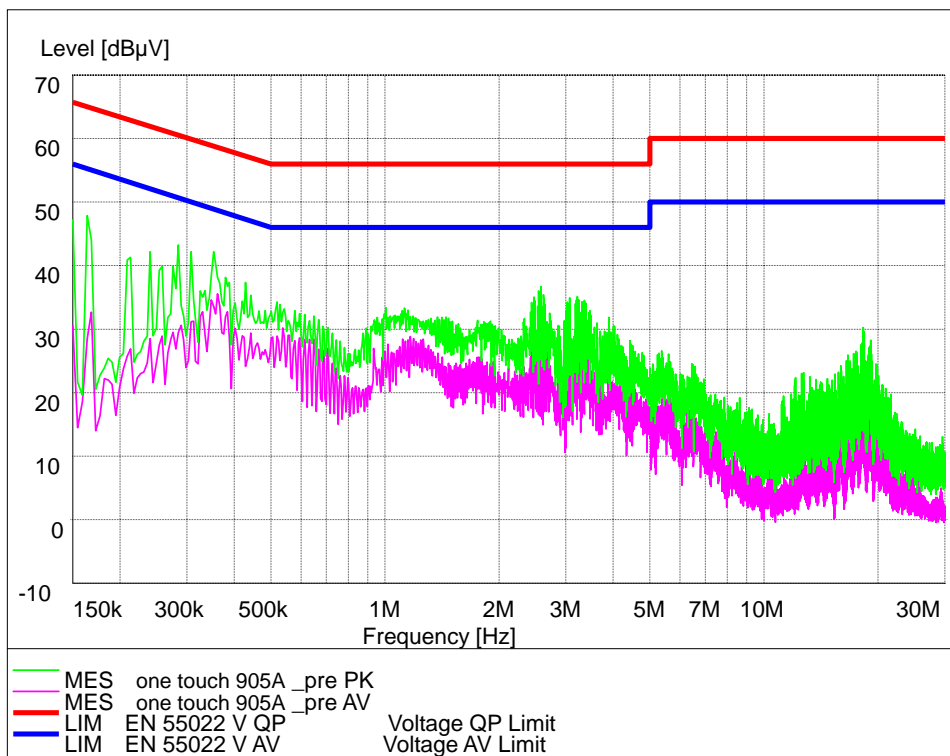
**MEASUREMENT RESULT: "one touch 905A\_fin QP"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.344800	47.20	20.1	59	12.2	N	GND
0.351600	43.80	20.1	59	15.6	N	GND
0.377100	45.60	20.1	58	12.8	L1	GND
0.379200	45.40	20.1	58	12.9	L1	GND
0.424500	43.90	20.1	57	12.5	N	GND
0.438600	40.50	20.1	57	16.1	N	GND

**MEASUREMENT RESULT: "one touch 905A\_fin AV"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBµV	dB	dBµV	dB		
0.371800	42.50	20.1	49	6.5	N	GND
0.372500	38.90	20.1	49	10.1	N	GND
1.147300	35.70	20.0	46	10.3	L1	GND
1.148100	35.20	20.0	46	10.8	N	GND
1.917600	37.40	20.0	46	8.6	L1	GND
1.918900	29.30	20.0	46	16.7	N	GND

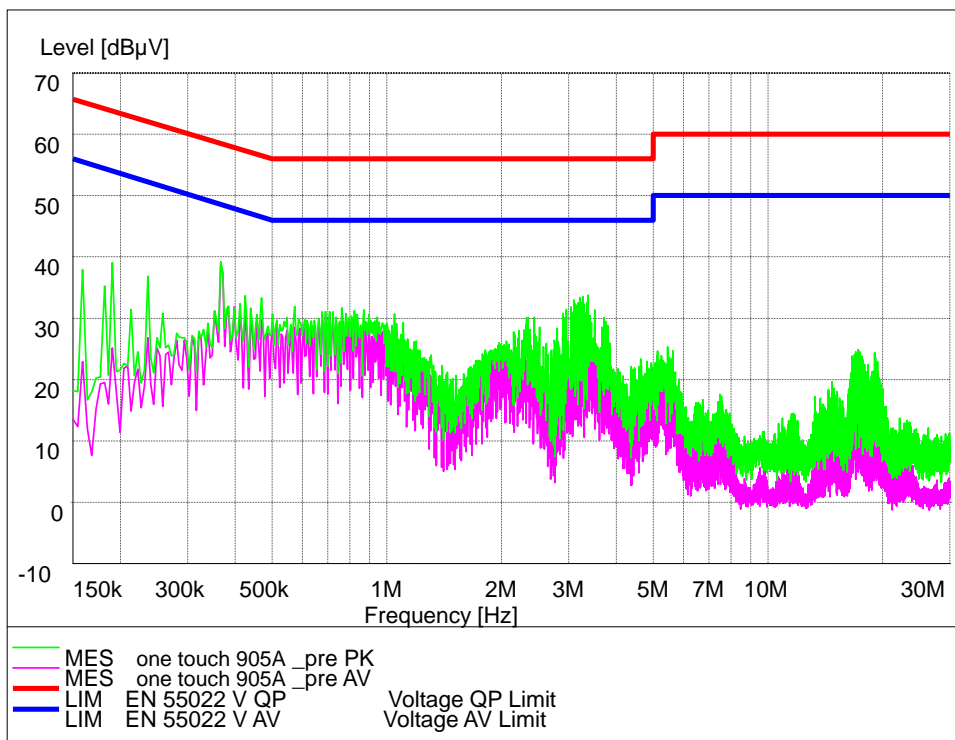
GSM 1900 Laptop+AE3#+AE5#+AE7#



L and N Line

Note: Measuring instruments' noise level refers to the figure of "Noise Level of the Measuring Instrument".

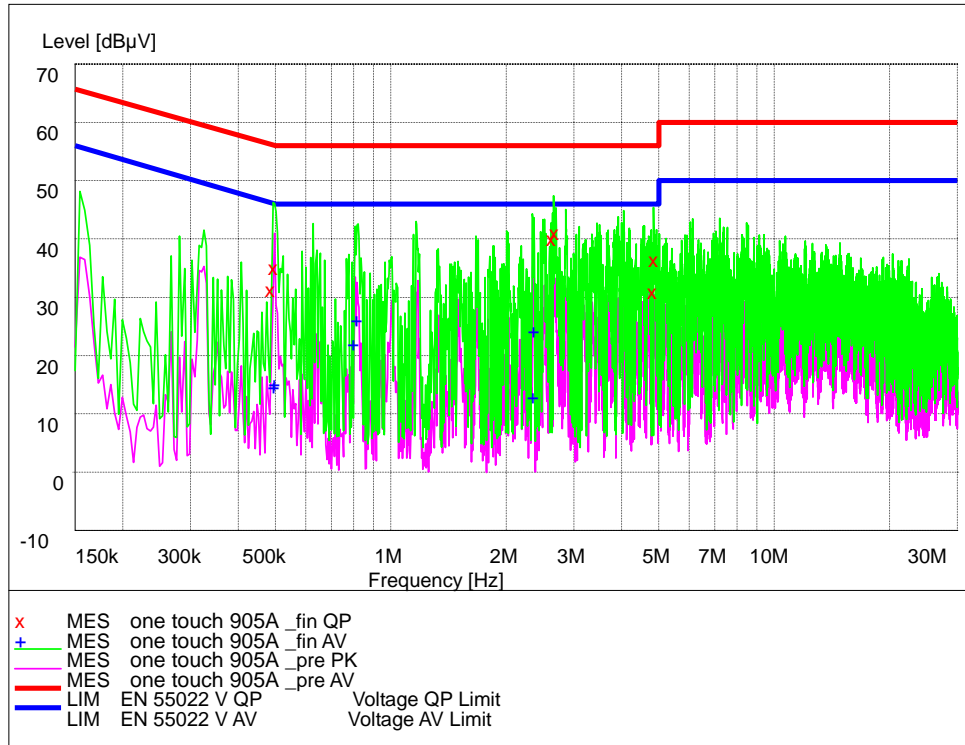
GSM 1900 Laptop+AE3#+AE6#+AE7#



L and N Line

Note: Measuring instruments' noise level refers to the figure of "Noise Level of the Measuring Instrument".

WCDMA BAND II Laptop+AE3#+AE5#+AE7#



L and N Line

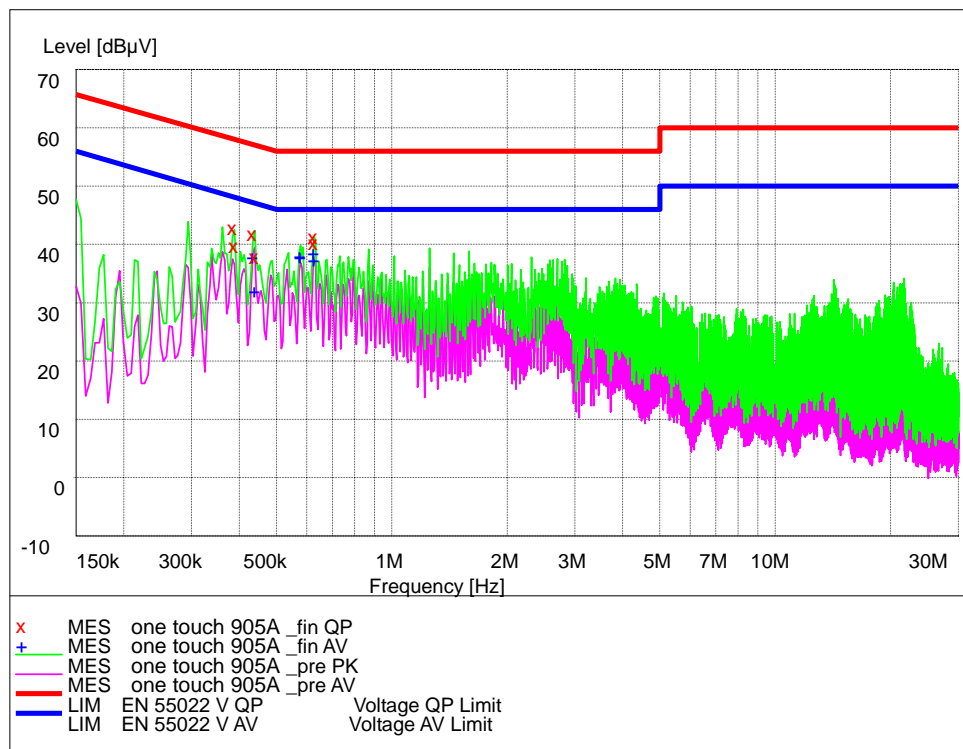
**MEASUREMENT RESULT: "one touch 905A\_fin QP"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.487600	32.30	20.1	56	23.7	N	GND
0.489100	36.40	20.1	56	19.6	N	GND
2.683400	39.70	20.1	56	16.3	L1	GND
2.698900	41.20	20.1	56	14.8	L1	GND
4.926800	30.6	20.1	56	25.4	N	GND
4.955900	37.8	20.1	56	18.2	N	GND

**MEASUREMENT RESULT: "one touch 905A\_fin AV"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.495800	15.40	20.1	46	30.6	L1	GND
0.497600	15.60	20.1	46	30.4	N	GND
0.814200	22.30	20.0	46	23.7	L1	GND
0.828700	27.50	20.0	46	18.5	L1	GND
2.367500	13.70	20.1	46	32.3	N	GND
2.371900	24.80	20.1	46	21.2	N	GND

WCDMA BAND II Laptop+AE3#+AE6#+AE7#



L and N Line

**MEASUREMENT RESULT: "one touch 905A\_fin QP"**

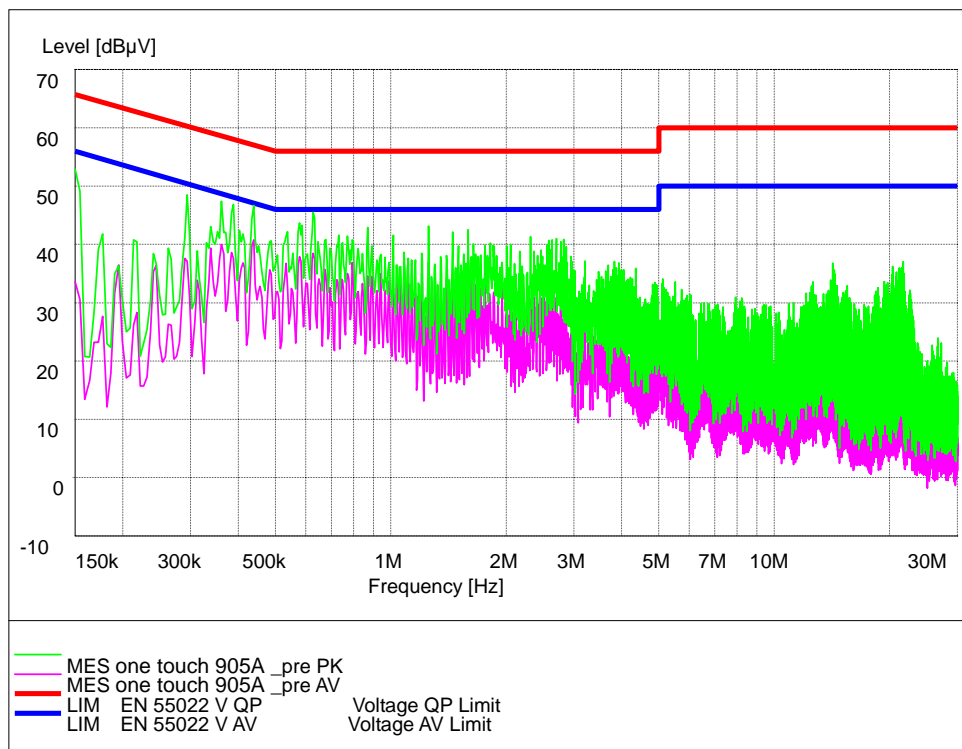
Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.379700	47.20	20.1	58	10.8	N	GND
0.381400	43.80	20.1	58	14.2	N	GND
0.432600	45.60	20.1	57	11.4	L1	GND
0.445800	45.40	20.1	57	11.6	L1	GND
0.614200	43.90	19.9	56	12.1	N	GND
0.628400	40.50	19.9	56	15.5	N	GND

**MEASUREMENT RESULT: "one touch 905A\_fin AV"**

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.445800	38.40	20.1	49	10.6	N	GND
0.461500	32.60	20.1	49	16.4	N	GND
0.583400	38.70	19.9	46	7.3	L1	GND
0.583500	38.70	19.9	46	7.3	N	GND
0.634300	39.50	19.9	46	6.5	L1	GND
0.635100	37.80	19.9	46	8.2	N	GND



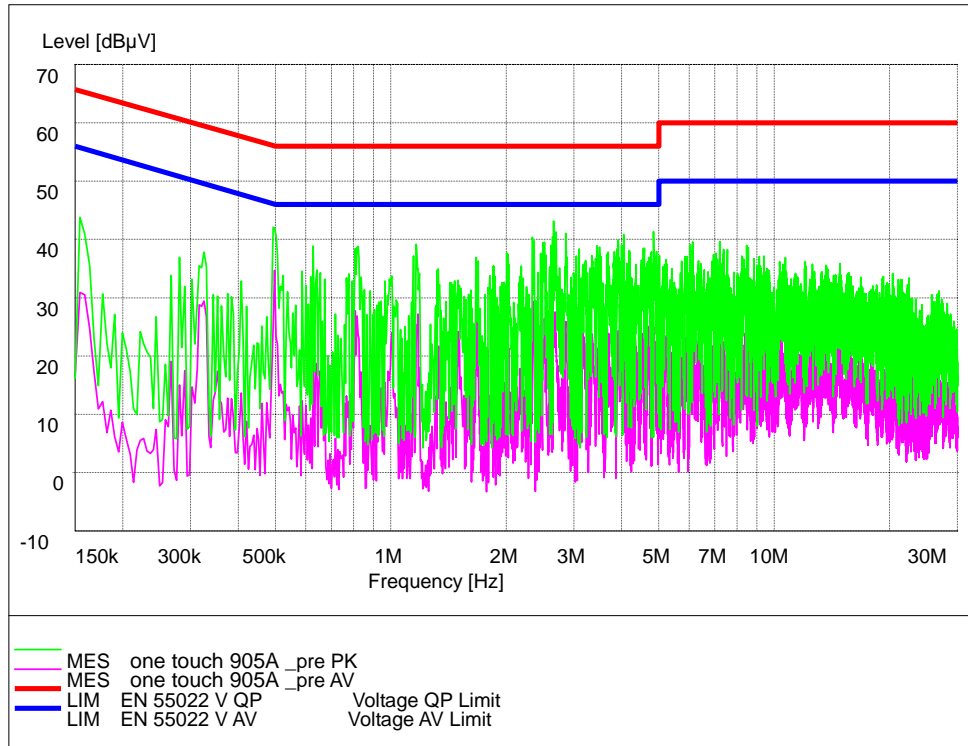
WCDMA BAND V Laptop+AE3#+AE5#+AE7#



L and N Line

Note: Measuring instruments' noise level refers to the figure of "Noise Level of the Measuring Instrument".

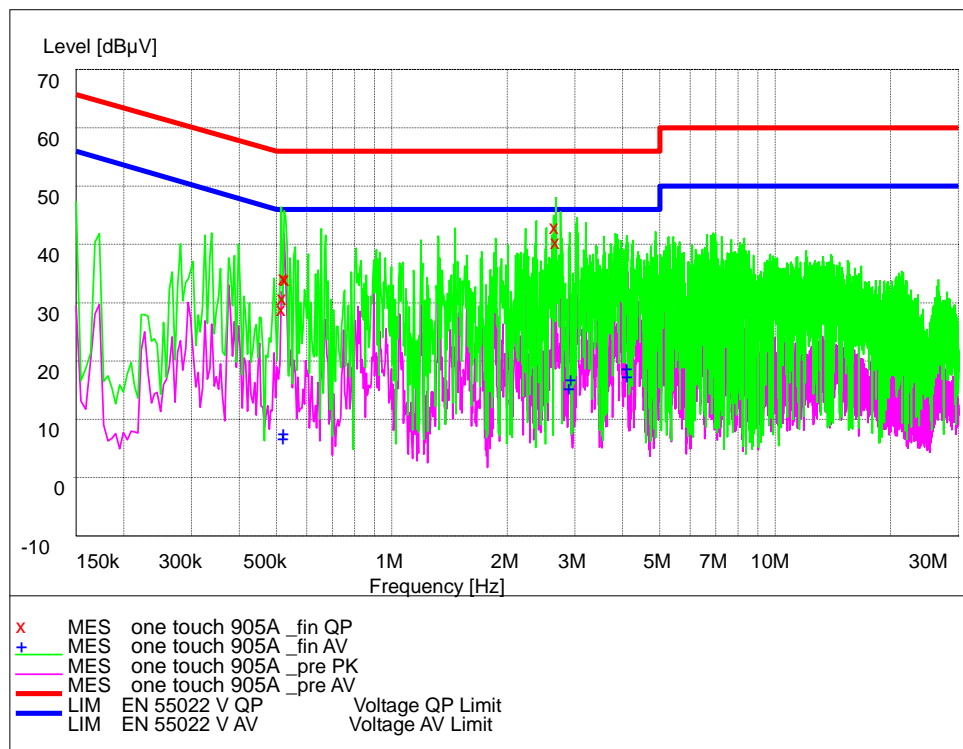
WCDMA BAND V Laptop+AE3#+AE6#+AE7#



L and N Line

Note: Measuring instruments' noise level refers to the figure of "Noise Level of the Measuring Instrument".

FM Radio Laptop+AE3#+AE6#+AE7#



L and N Line

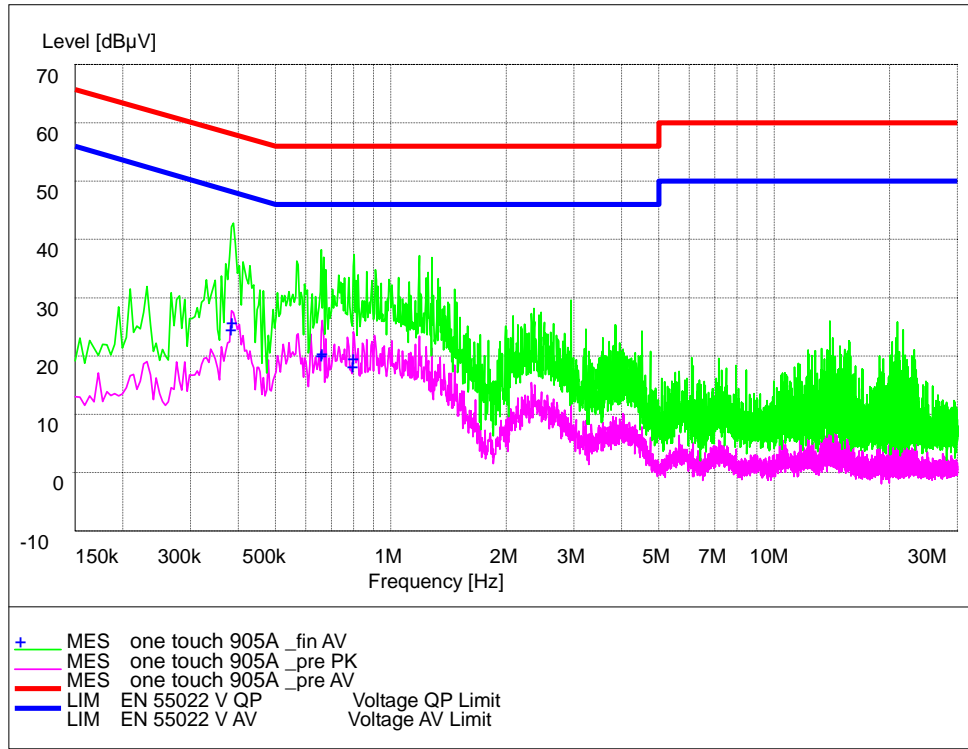
MEASUREMENT RESULT: "one touch 905A\_fin QP"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.516300	29.60	19.9	56	26.4	N	GND
0.517400	30.50	19.9	56	25.5	N	GND
0.518200	34.80	19.9	56	21.2	L1	GND
0.519800	34.80	19.9	56	21.2	L1	GND
2.637700	43.70	20.1	56	12.3	N	GND
2.638900	40.30	20.1	56	15.7	N	GND

MEASUREMENT RESULT: "one touch 905A\_fin AV"

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dBμV	dB	dBμV	dB		
0.516100	7.40	19.9	46	38.6	L1	GND
0.518500	8.60	19.9	46	37.4	N	GND
2.984500	16.50	20.1	46	29.5	L1	GND
2.988100	17.40	20.1	46	28.6	L1	GND
4.095800	18.10	20.1	46	27.9	N	GND
4.098900	19.30	20.1	46	25.7	N	GND

MP3/MP4 Laptop+AE3#+AE5#+AE7#

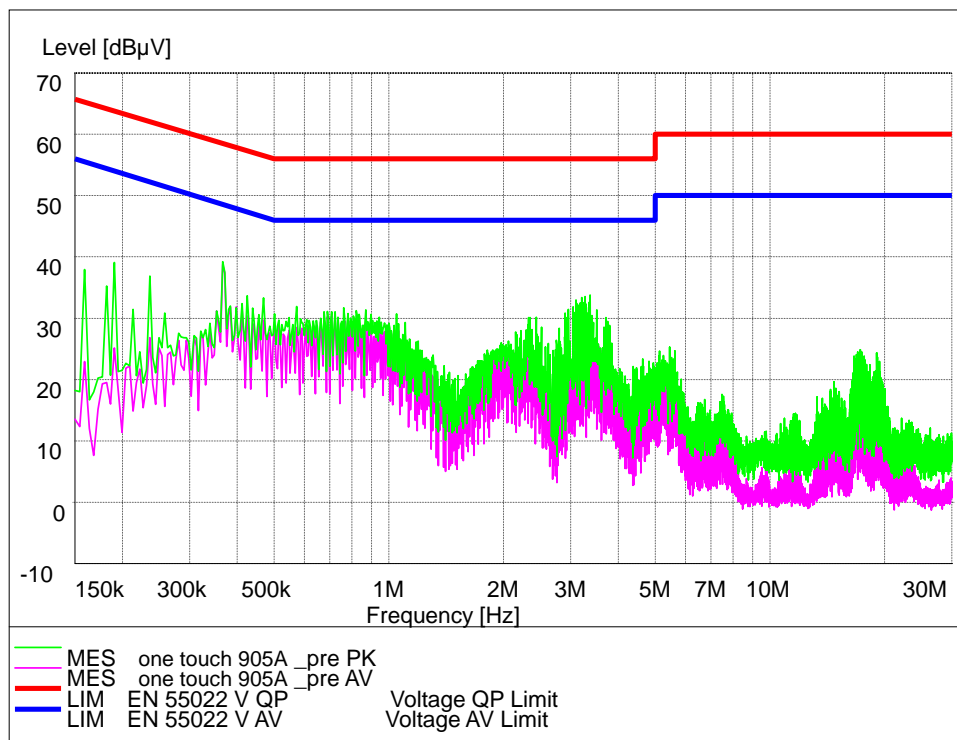


L and N Line

MEASUREMENT RESULT: "MOBILE\_fin AV"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.383500	26.40	20.1	48	21.8	L1	GND
0.386000	27.70	20.1	48	20.4	N	GND
0.661000	22.00	19.9	46	24.0	L1	GND
0.663000	22.40	19.9	46	23.6	L1	GND
0.796500	20.10	19.9	46	25.9	N	GND
0.800500	21.50	20.0	46	24.5	N	GND

Camera Laptop+AE3#+AE5#+AE7#



L and N Line

Note: Measuring instruments' noise level refers to the figure of "Noise Level of the Measuring Instrument".

## 2.2.2 Radiated Emissions-FCC Part15.109

Ambient condition:

Temperature	Relative humidity	Pressure
19.3°C	47.5%	101.1kPa

Test Setup:

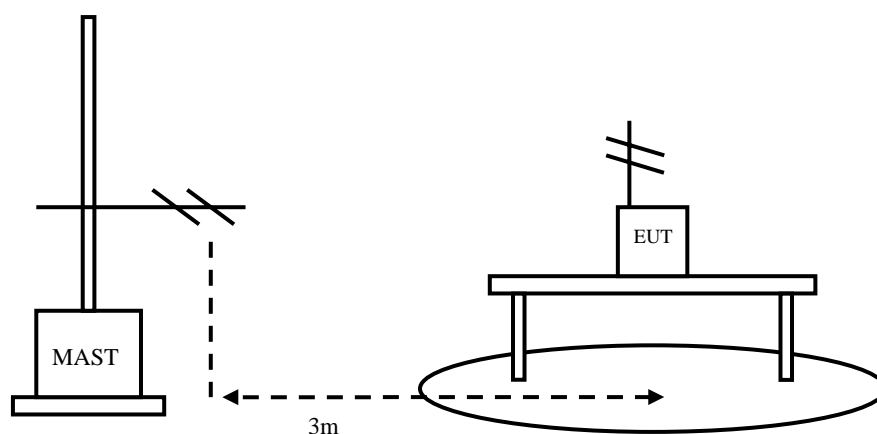


Figure 2

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 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 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 $\mu$ 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:

#### GSM 850 Mode

Frequency(MHz)	Result(dBuV/m)	$A_{Rpl}$ (dB)	$P_{\text{mea}}$ (dBuV/m)	Polarity
300.26	23.3	3.2	20.1	Horizontal
546.73	25.1	4.2	20.9	Horizontal
589.61	24.8	4.4	20.4	Vertical
623.54	28.7	4.5	24.2	Horizontal
786.81	29.4	5.2	24.2	Vertical
966.98	33.1	5.8	27.3	Vertical

#### PCS1900 Mode

Frequency(MHz)	Result(dBuV/m)	$A_{Rpl}$ (dB)	$P_{\text{mea}}$ (dBuV/m)	Polarity
300.15	23.6	3.2	20.4	Vertical
513.82	26.2	4.2	22.0	Vertical
651.74	28.4	4.8	23.6	Vertical
668.79	28.9	4.5	24.4	Horizontal
854.27	29.5	5.5	24.0	Vertical
907.78	31.8	5.4	26.4	Vertical

### WCDMA Band II Mode

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>mea</sub> (dBuV/m)	Polarity
301.43	16.7	3.2	13.5	Vertical
497.65	21.6	4.1	17.5	Horizontal
548.33	24.4	4.3	20.1	Vertical
652.94	25.6	4.8	20.8	Horizontal
865.52	28.7	5.5	23.2	Vertical
969.81	30.5	5.8	24.7	Horizontal

### WCDMA Band V Mode

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>mea</sub> (dBuV/m)	Polarity
299.77	18.9	3.2	15.7	Horizontal
473.65	22.7	4.0	18.7	Horizontal
551.59	28.8	4.3	24.5	Vertical
637.92	26.1	4.6	21.5	Vertical
874.63	31.6	5.5	26.1	Vertical
948.69	36.5	5.7	30.8	Vertical

### FM Radio Mode

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>mea</sub> (dBuV/m)	Polarity
184.87	23.6	2.5	21.1	Vertical
297.65	16.5	3.2	13.3	Vertical
499.21	22.9	4.1	18.8	Horizontal
537.74	29.7	4.2	25.5	Vertical
887.56	31.8	5.6	26.2	Horizontal
958.79	38.4	5.7	32.7	Vertical

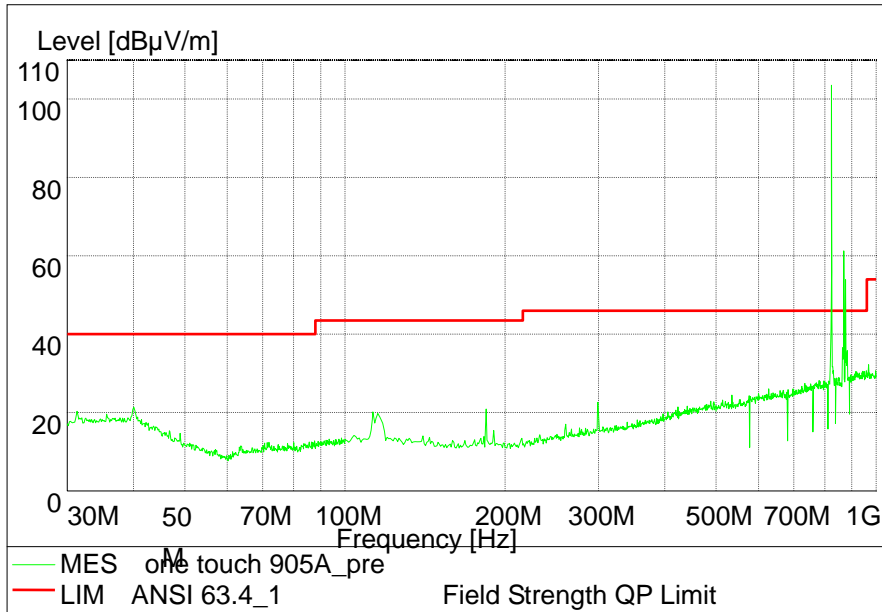
### MP3/MP4 Mode

Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>mea</sub> (dBuV/m)	Polarity
186.79	22.8	2.5	20.3	Vertical
368.83	17.3	3.5	13.8	Horizontal
447.67	22.7	3.9	18.8	Vertical
536.34	26.4	4.2	22.2	Vertical
782.29	28.6	5.1	23.5	Vertical
957.58	38.1	5.7	32.4	Horizontal

### Camera Mode

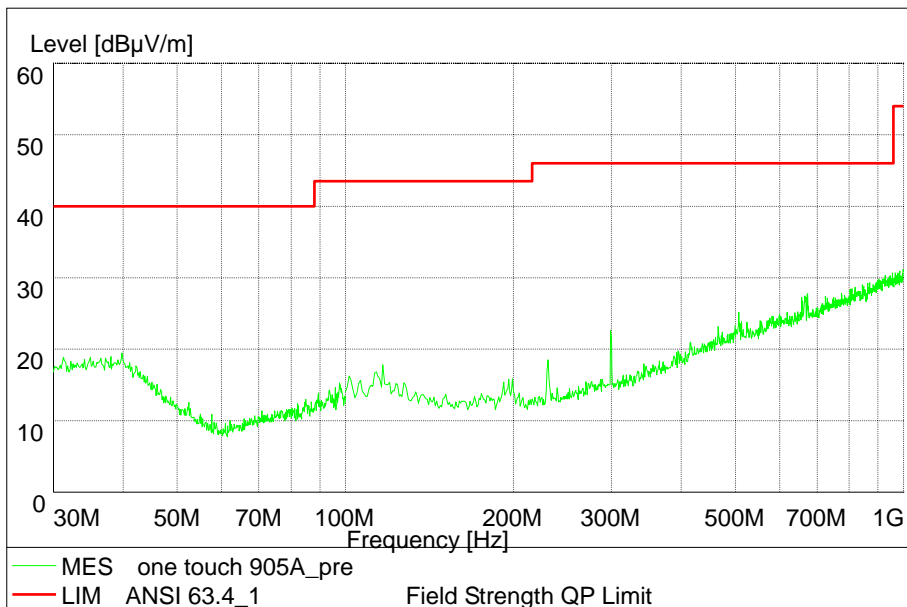
Frequency(MHz)	Result(dBuV/m)	A <sub>Rpl</sub> (dB)	P <sub>mea</sub> (dBuV/m)	Polarity
299.91	23.9	3.2	20.7	Vertical
426.77	26.1	3.8	22.3	Horizontal
633.85	28.4	4.6	23.8	Horizontal
779.26	32.7	5.1	27.6	Vertical
817.82	31.5	5.3	26.2	Vertical
961.97	34.6	5.8	28.8	Vertical





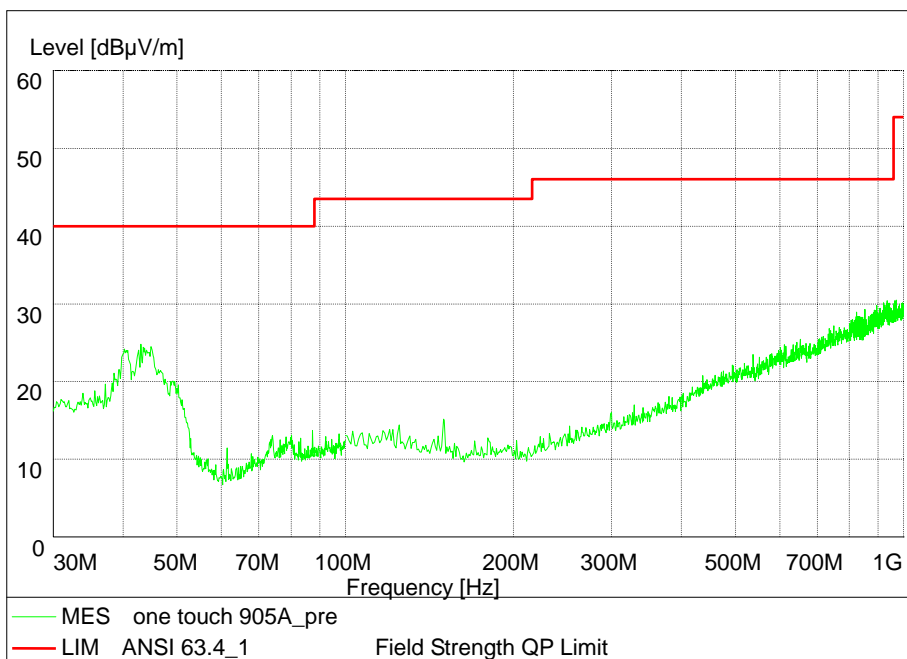
**GSM 850 (30MHz - 1GHz)**

Note: The signals beyond the limit are the base station and simulator carriers.  
 For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.



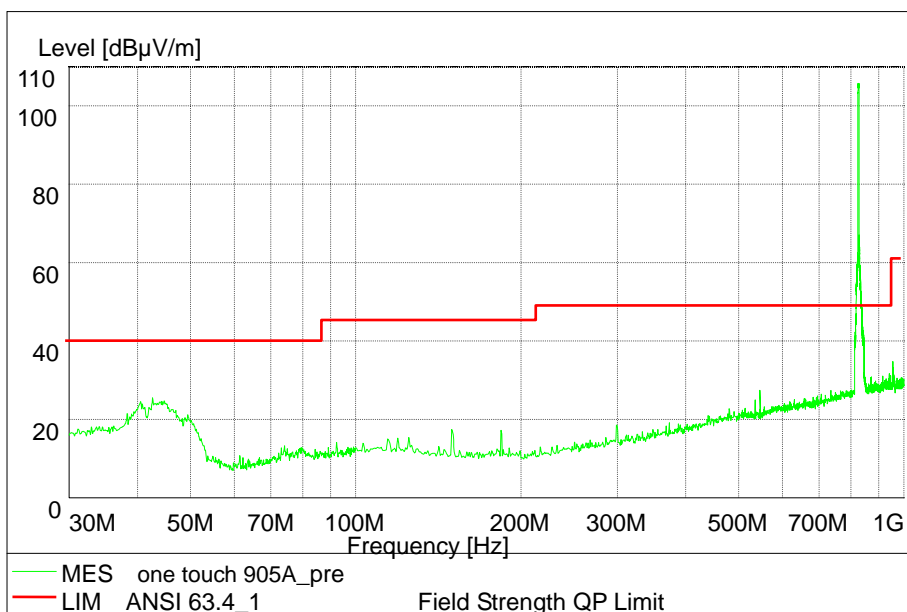
**PCS 1900 (30MHz – 1GHz)**

Note: For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.



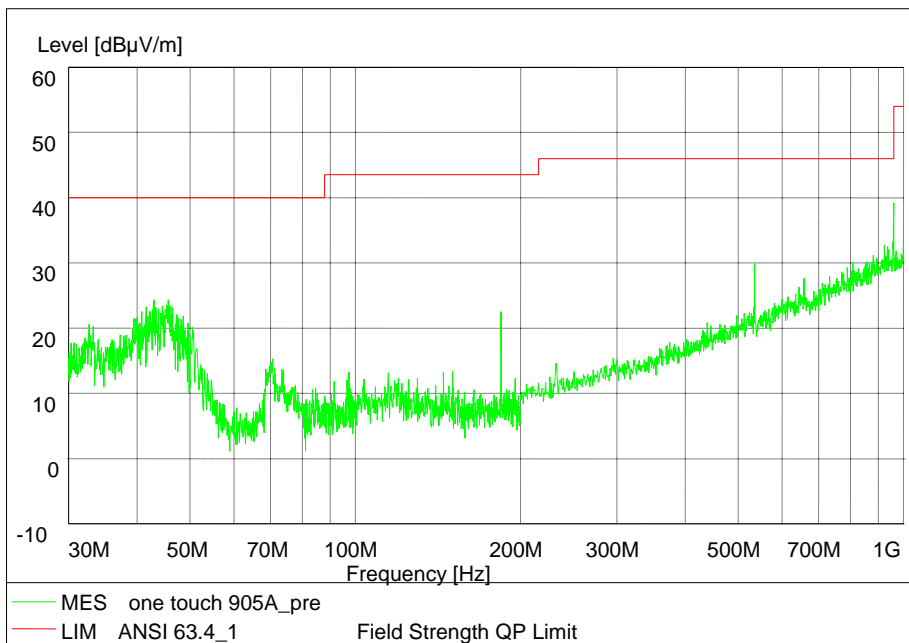
### WCDMA BAND II (30MHz – 1GHz)

Note: For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.



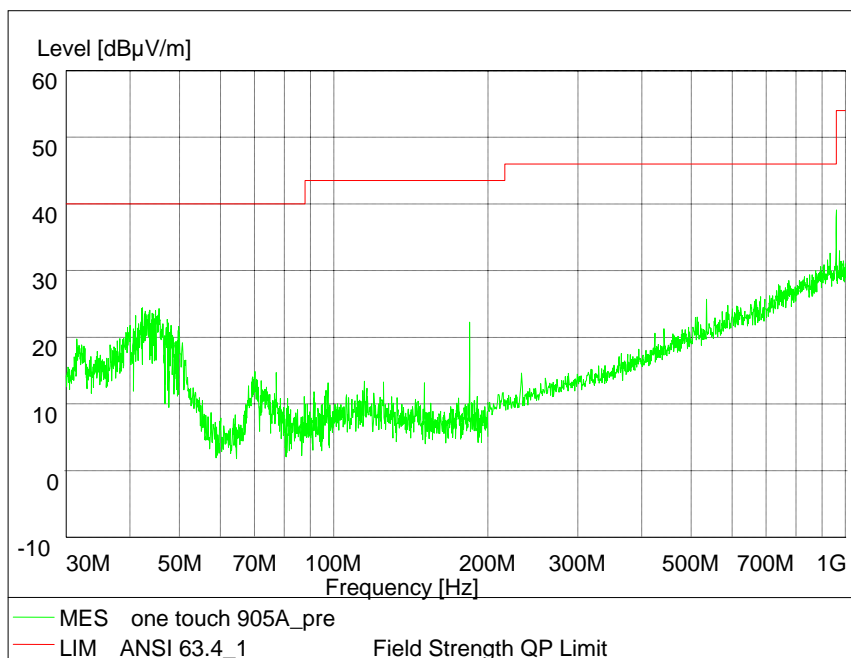
### WCDMA BAND V (30MHz – 1GHz)

Note: The signals beyond the limit are the base station and simulator carriers.  
 For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.



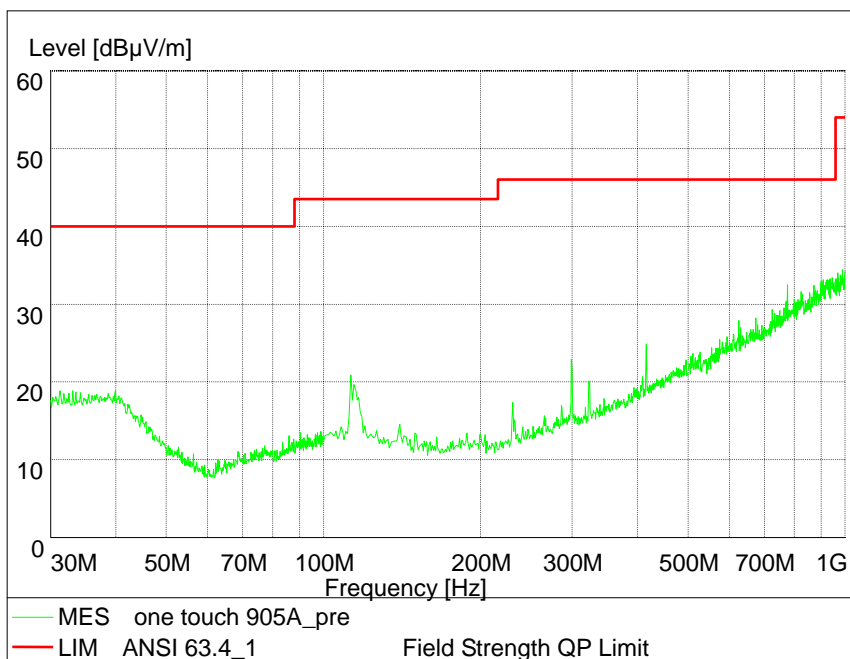
FM Radio (30MHz – 1GHz )

Note: For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.



MP3/MP4 (30MHz – 1GHz)

Note: For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.



Camera (30MHz – 1GHz)

Note: For measurement above 1GHz, all emissions level measured are more than 10dB below the limit.

### 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 <sup>th</sup> Aug. 2011
2	ESI 40 EMI test receiver	R&S	100015	19 <sup>th</sup> Aug. 2011
3	E5515C(8960) Mobile Station Tester	Agilent	GB44050904	19 <sup>th</sup> Aug. 2011
4	9.080m×5.255m×3.525m Shielding room	FRANKONIA	-----	19 <sup>th</sup> Aug. 2011
5	ESCS30 EMI test receiver	R&S	100029	19 <sup>th</sup> Aug. 2011
6	HL562 Ultra log test antenna	R&S	100016	19 <sup>th</sup> Aug. 2011
7	ESH3-Z2 Pulse limiter	R&S	10002	19 <sup>th</sup> Aug. 2011
8	ESH3-Z5 Attenuator	R&S	100020	19 <sup>th</sup> Aug. 2011
9	ESH2Z11 LISN	R&S	50FH-020-10	19 <sup>th</sup> Aug. 2011
10	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	19 <sup>th</sup> Aug. 2011
11	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100029	19 <sup>th</sup> Aug. 2011
12	PS2000 Turn Table	FRANKONIA	-----	19 <sup>th</sup> Aug. 2011
13	MA260 Antenna Master	FRANKONIA	-----	19 <sup>th</sup> Aug. 2011
14	ES-K1EMI test software	R&S	-----	19 <sup>th</sup> Aug. 2011
15	HL562 Receive antenna	R&S	100167	19 <sup>th</sup> Aug. 2011

## Appendix