

# FCC Test Report FCC ID: 2AICV-1100

**Product:** Mobile Phone

Trade Name: SIMTEL

Model Number: 1100

Serial Model: N/A

Report No.: NTEK- 2016NT03284924F3-01

## **Prepared for**

#### PHONEPAC S.A.

Ciudadela Nueva Kennedy Calle 3rd and Av. Olimpo, Guayaquil, Ecuador.

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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# **TEST RESULT CERTIFICATION**

Applicant's name:	PHONEP	AC S.A.				
Address:		Ciudadela Nueva Kennedy Calle 3rd and Av. Olimpo, Guayaquil, Ecuador.				
Manufacturer's Name:	SINGLUN	SINGLUNGYU INT'S LIMITED				
Address:	4th floor, LongGan	FengQi Road, FuChengQo Industrial Park,PingHu, g District,ShenZhen				
Product description						
Product name:	Mobile Ph	none				
Model and/or type reference :	1100					
Standards:	FCC Part	:15B:01 Oct.2016 3.4:2014				
	n complian	sted by NTEK, and the test results show that the ace with Part 15 of FCC Rules. And it is applicable only to				
This report shall not be reproduc	ced excep	t in full, without the written approval of NTEK, this				
•	ised by N	ΓΕΚ, personnel only, and shall be noted in the revision of				
the document.						
Date of Test		28 Mar. 2016 ~ 04 May. 2016				
Date (s) of performance of tests		•				
Date of Issue		04 May. 2016				
Test Result	:	Pass				
Testing Engine	eer :	Susan				
		(Susan Su)				
Technical Man	ager :	Jason chen				
		(Jason Chen)				
Authorized Sig	natory:	Sam. Chen				
		(Sam Chen)				



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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS				
	Radiated Emission	Class B	PASS				

# NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



#### 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

# 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

# A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

## B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone					
Trade Name	SIMTEL					
Model Name	1100	1100				
Serial Model	N/A					
Model Difference	N/A					
	The EUT is a Mobile Pho Connecting I/O port: Operation Frequency:	one.  USB, DC in  BT:2402~2480 MHz  GSM: 824.2-848.8MHz/1850.2-1909.8MHz				
		WCDMA: 826.4-846.6MHz/				
Product Description		1852.4-1907.6MHz				
	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8-DPSK GSM / DCS: GMSK WCDMA:QPSK				
D	DO Velle ve					
Power Source	DC Voltage					
	Adapter1;					
	Model: M330					
	Input: 100-240V~, 50/60Hz, 0.15A					
Adapter	Output: 5.0V===, 500mA					
	Adapter2:					
	Model: 1100	17 120mA				
	Input: 100-240V~, 50/60H	IZ, IZUIIIA				
Detter	Output: 5.2V ===, 500mA					
Battery	DC 3.7V, 800mAh					



## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Connect to PC
Mode 2	REC
Mode 3	BT
Mode 4	GPS
Mode 5	GSM

For Conducted Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	GPS			
Mode 5	GSM			

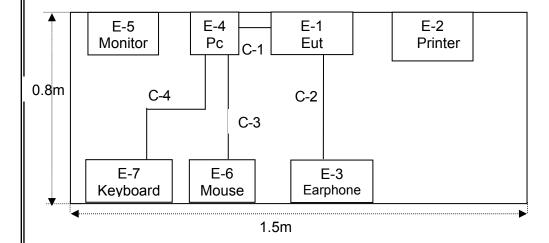
For Radiated Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	GPS			
Mode 5	GSM			

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.

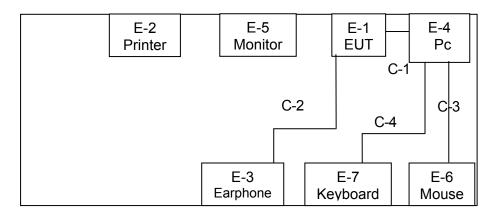


# 2.2 DESCRIPTION OF TEST SETUP

RE



CE





## 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Mobile Phone	SIMTEL	1100	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Earphone	N/A	L662	N/A	Peripherals
E-4	Personal computer	DELL	FT4Y23X	34413561645	PC
E-5	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67e s	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	
E-7	Keyboard	DELL	SK-8185	OY526KUS	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	Earphone	NO	NO	0.8m	
C-3	USB Cable	NO	NO	1.5m	
C-4	USB Cable	NO	NO	1.5m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



# 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2015.07.06	2016.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

# Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year



# 3. EMC EMISSION TEST

# 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
FREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

## Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

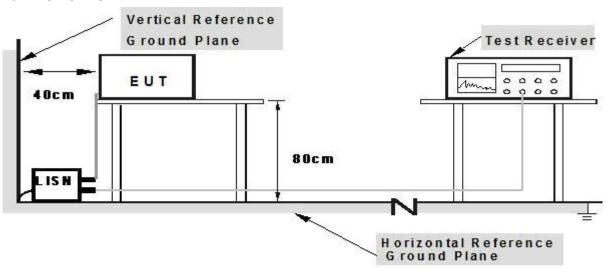
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



# 3.1.5 TEST RESULTS

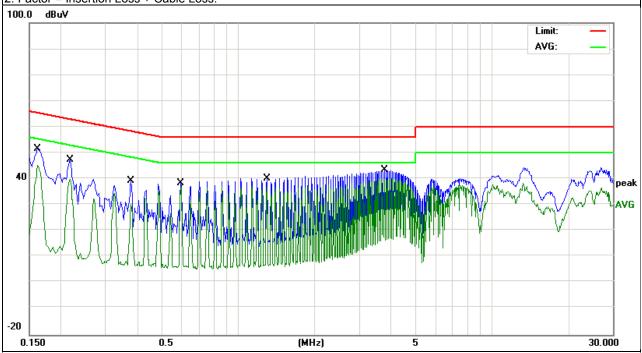
EUT:	Mobile Phone	Model Name. :	1100- Adapter1	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-4-18	
Test Mode:	Mode 1	Phase :	L	
Test Voltage:	DC 5V From PC AC 120V/60Hz			

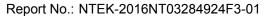
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	41.57	10.07	51.64	65.36	-13.72	QP
0.1620	35.33	10.07	45.40	55.36	-9.96	AVG
0.2179	37.26	10.04	47.30	62.89	-15.59	QP
0.2179	29.87	10.04	39.91	52.89	-12.98	AVG
0.3780	29.24	10.07	39.31	58.32	-19.01	QP
0.3780	20.24	10.07	30.31	48.32	-18.01	AVG
0.5939	28.63	9.82	38.45	56.00	-17.55	QP
0.5939	27.13	9.82	36.95	46.00	-9.05	AVG
1.2980	30.44	9.83	40.27	56.00	-15.73	QP
1.2980	27.01	9.83	36.84	46.00	-9.16	AVG
3.7820	33.61	9.72	43.33	56.00	-12.67	QP
3.7820	30.22	9.72	39.94	46.00	-6.06	AVG

# Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





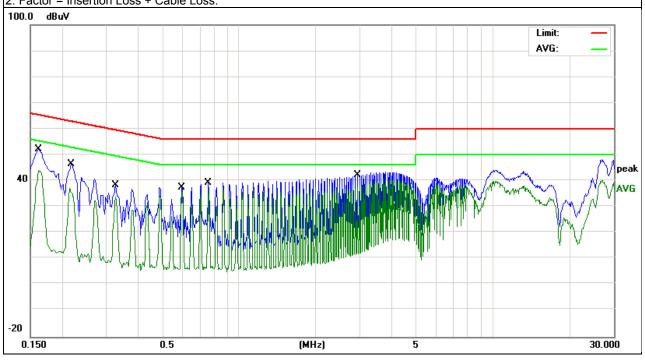


EUT:	Mobile Phone	Model Name. :	1100- Adapter1	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-4-18	
Test Mode:	Mode 1 Phase : N			
Test Voltage:	DC 5V From PC AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	42.12	10.07	52.19	65.36	-13.17	QP
0.1620	33.81	10.07	43.88	55.36	-11.48	AVG
0.2179	36.44	10.04	46.48	62.89	-16.41	QP
0.2179	26.29	10.04	36.33	52.89	-16.56	AVG
0.3260	28.26	10.11	38.37	59.55	-21.18	QP
0.3260	23.62	10.11	33.73	49.55	-15.82	AVG
0.5939	27.65	9.82	37.47	56.00	-18.53	QP
0.5939	25.57	9.82	35.39	46.00	-10.61	AVG
0.7580	29.53	9.82	39.35	56.00	-16.65	QP
0.7580	27.32	9.82	37.14	46.00	-8.86	AVG
2.9260	32.38	9.74	42.12	56.00	-13.88	QP
2.9260	13.39	9.74	23.13	46.00	-22.87	AVG

# Remark:

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.





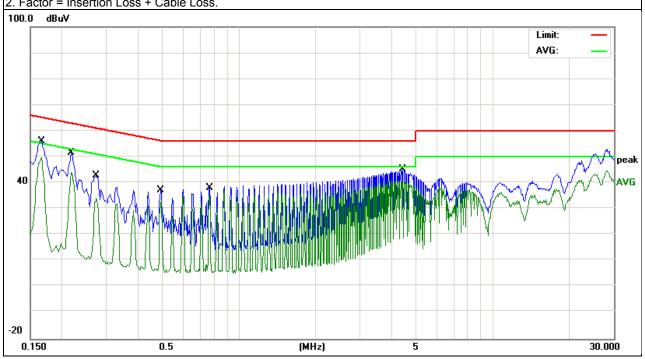
EUT:	Mobile Phone	Model Name. :	1100- Adapter1	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-4-18	
Test Mode:	Mode 1 Phase : L			
Test Voltage:	DC 5V From PC AC 240V/60Hz			

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	45.88	10.06	55.94	65.15	-9.21	QP
0.1660	39.62	10.06	49.68	55.15	-5.47	AVG
0.2179	41.40	10.04	51.44	62.89	-11.45	QP
0.2179	34.13	10.04	44.17	52.89	-8.72	AVG
0.2740	32.86	10.10	42.96	60.99	-18.03	QP
0.2740	24.07	10.10	34.17	50.99	-16.82	AVG
0.4899	27.37	9.84	37.21	56.17	-18.96	QP
0.4939	23.13	9.83	32.96	46.10	-13.14	AVG
0.7660	28.23	9.82	38.05	56.00	-17.95	QP
0.7660	25.12	9.82	34.94	46.00	-11.06	AVG
4.4138	35.38	9.72	45.10	56.00	-10.90	QP
4.4138	31.10	9.72	40.82	46.00	-5.18	AVG

# Remark:

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.



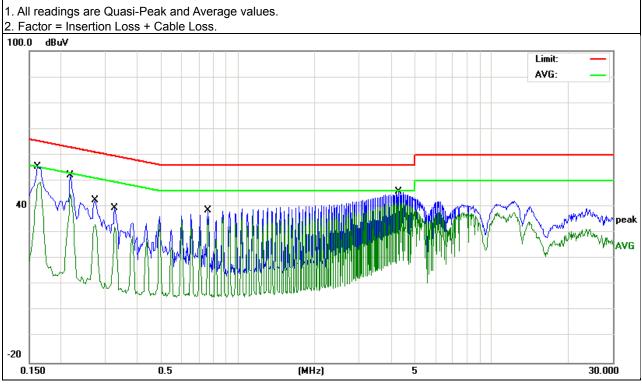


EUT:	Mobile Phone	Model Name. :	1100- Adapter1	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-4-18	
Test Mode:	Mode 1 Phase : N			
Test Voltage:	DC 5V From PC AC 240V/60Hz			

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	45.23	10.07	55.30	65.36	-10.06	QP
0.1620	35.41	10.07	45.48	55.36	-9.88	AVG
0.2179	41.99	10.04	52.03	62.89	-10.86	QP
0.2179	30.58	10.04	40.62	52.89	-12.27	AVG
0.2740	32.47	10.10	42.57	60.99	-18.42	QP
0.2740	22.34	10.10	32.44	50.99	-18.55	AVG
0.3260	29.44	10.11	39.55	59.55	-20.00	QP
0.3260	22.13	10.11	32.24	49.55	-17.31	AVG
0.7620	28.87	9.82	38.69	56.00	-17.31	QP
0.7620	25.62	9.82	35.44	46.00	-10.56	AVG
4.2979	36.07	9.72	45.79	56.00	-10.21	QP
4.2979	30.95	9.72	40.67	46.00	-5.33	AVG

# Remark:





#### 3.2 RADIATED EMISSION MEASUREMENT

## 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

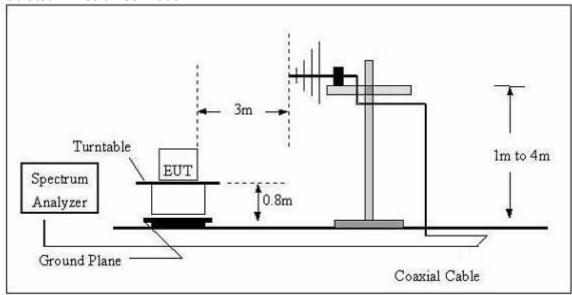
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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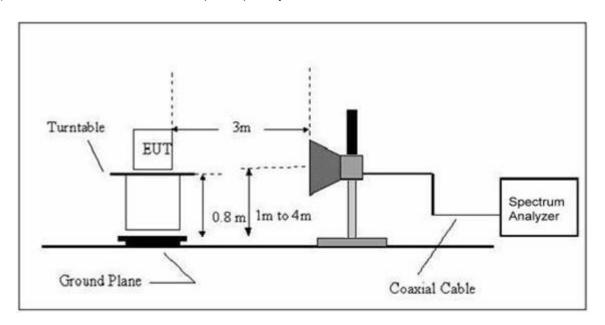
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000 QP		120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Avg	1 MHz	10 Hz	

## 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



# (B) Radiated Emission Test Set-Up Frequency Above 1GHz



# 3.2.4 TEST RESULTS



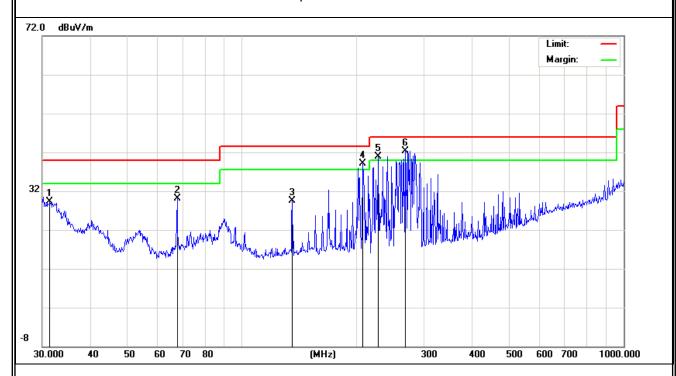
# TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	1100	
Temperature:	<b>24</b> ℃	Relative Humidity:	54%	
Pressure:	1010 hPa	Test Date :	2016-4-18	
Test Mode :	Mode 1	Polarization :	Horizontal	
Test Power: DC 5V From PC AC 120V/60Hz				

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	1101110111
Н	31.3992	10.28	19.07	29.35	40.00	-10.65	QP
Н	67.6751	22.35	7.79	30.14	40.00	-9.86	QP
Н	135.5062	18.49	10.97	29.46	43.50	-14.04	QP
Н	207.1226	27.87	11.33	39.20	43.50	-4.30	QP
Н	227.6904	30.13	10.86	40.99	46.00	-5.01	QP
Н	267.5455	30.91	11.49	42.40	46.00	-3.60	QP

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



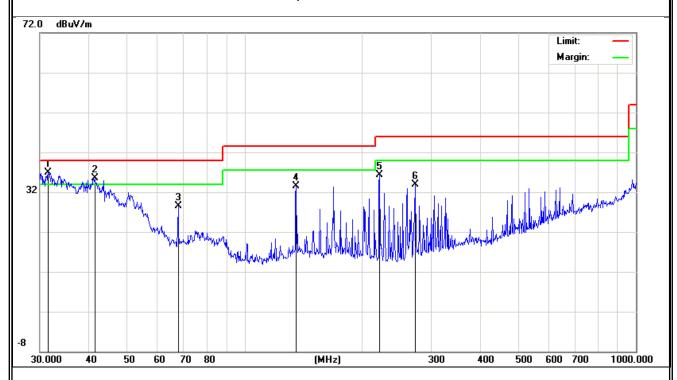


EUT:	Mobile Phone	Model Name :	1100	
Temperature:	<b>24</b> ℃	Relative Humidity:	54%	
Pressure:	1010 hPa	Test Date :	2016-4-18	
Test Mode:	Mode 1	Polarization :	Vertical	
Test Power:	Power: DC 5V From PC AC 120V/60Hz			

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.5093	17.97	19.03	37.00	40.00	-3.00	QP
V	41.4215	21.72	13.78	35.50	40.00	-4.50	QP
V	67.6751	20.69	7.79	28.48	40.00	-11.52	QP
V	135.5062	22.63	10.97	33.60	43.50	-9.90	QP
V	221.3919	25.43	10.86	36.29	46.00	-9.71	QP
V	273.2341	22.32	11.65	33.97	46.00	-12.03	QP

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~25000MHz)

EUT:	Mobile Phone	Model Name :	1100		
Temperature:	<b>24</b> °C	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-4-18		
Test Mode :	Mode 1	Polarization :	Vertical		
Test Power :	t Power: DC 5V From PC AC 120V/60Hz				

Report No.: NTEK-2016NT03284924F3-01

All the modulation modes have been tested, and the worst result was report as below:

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	3505.144	46.44	-4.8	41.64	74	-32.36	peak
V	3505.144	33.58	-4.8	28.78	54	-25.22	AVG
V	4874.002	43.96	1.57	45.53	74	-28.47	peak
V	4874.002	31.69	1.57	33.26	54	-20.74	AVG
Н	3164.8360	45.73	-6.00	39.73	74.00	-34.27	peak
Н	3164.8360	32.65	-6.00	26.65	54.00	-27.35	AVG
Н	4865.2770	44.14	1.52	45.66	74.00	-28.34	peak
Н	4865.2770	31.27	1.52	32.79	54.00	-21.21	AVG

#### Remark:

Note: (1) All other emissions more than 20dB below the limit.

(2) Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level – Limit





# 4. EUT TEST PHOTO



