



FCC RADIO TEST REPORT FCC ID: 2ANMU-WP7

Product : Smart Phone Trade Mark : OUKITEL Model Name : WP7 Family Model : N/A Report No. : S19111903206006

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA,SHENZHEN,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	SHENZH	IEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD			
Address	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA, SHENZHEN, China				
Manufacturer's Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD				
Address:		BUILDING ENET NEW INDUSTRIAL PARK, DAFU RIAL ZONE, GUANLAN, LONGHUA,SHENZHEN,China			
Product description					
Product name:	Smart Ph	none			
Model and/or type reference :	WP7				
Family Model:	N/A				
Standards	FCC Par	t15.225			
Test procedure	ANSI C6	3.10-2013			
	n compliar	sted by NTEK, and the test results show that the nce with the FCC requirements. And it is applicable only rt.			
	•	ot in full, without the written approval of NTEK, this TEK, personnel only, and shall be noted in the revision of			
Date of Test	:				
Date (s) of performance of tests.	:	21 Nov. 2019 ~ 06 Dec. 2019			
Date of Issue	:	09 Dec. 2019			
Test Result	:	Pass			
Testing Engine	er :	Allen Lin			
		(Allen Liu)			
Technical Man	ager :	Jasen chen			
		(Jason Chen)			
Authorized Sig	natory :	Sam. Chen			
		(Sam Chen)			





Table of Contents	Page
1. SUMMARY OF TEST RESULTS	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	-
2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)	ن ر 9
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	9 10
3 . ANTENNA REQUIREMENT	11
3.1 STANDARD REQUIREMENT	11
3.2 EUT ANTENNA	11
4 . EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12
4.1.2 TEST CONFIGURATION	12
4.1.3 TEST PROCEDURE	12
4.1.4 TEST RESULT	13
4.2 RADIATED EMISSION MEASUREMENT	17
4.2.1 RADIATED EMISSION LIMITS 4.2.2 TEST PROCEDURE	17
4.2.2 TEST PROCEDURE 4.2.3 DEVIATION FROM TEST STANDARD	18 18
4.2.4 TEST SETUP	19
4.2.5 TEST RESULTS (BELOW 30MHZ)	20
4.2.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	22
5 . BANDWIDTH TEST	24
5.1 TEST PROCEDURE	24
5.2 DEVIATION FROM STANDARD	24
5.3 TEST SETUP	24
5.4 TEST RESULTS	25
6. FREQUENCY TOLERANCE	26



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	Pass				
15.205(a) 15.209 15.225(abcd)	Radiated Spurious Emission	Pass				
15.225 15.215(c)	20dB Bandwidth	Pass				
15.225(e)	Frequency Tolerance	Pass				
15.203	Antenna Requirement	Pass				

NOTE:

(1) " N/A" denotes test is not applicable in this Test Report.



1.1 TEST FACILITY

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

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The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

Site Description

CNAS-Lab. :	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
IC-Registration	The Certificate Registration Number is L5516. The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm :	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location :	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

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 **k=2**, providing a level of confidence of approximately 95 % ·

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone			
Trade Mark	OUKITEL			
Model Name	WP7			
Family Model	N/A			
Model Difference	N/A			
Product Description	The EUT is a Smart PhoneOperation Frequency:13.56MHzModulation Type:ASKNumber Of Channel1CH.Antenna Designation:Induction coil			
Adapter	Model: HJ-FC010K7-US Input: 100-240V~50/60Hz 0.6A Output: 5V2.0A 9V2.0A 12V1.5A			
Rating	DC 3.85V/7800mAh from Battery or DC 5V from USB Port.			
HW Version	HCT-S900MB-A2			
SW Version	OUKITEL_WP7_EEA_V0	1_20191119		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Induction coil	N/A	N/A	Antenna



2.2 DESCRIPTION OF TEST MODES

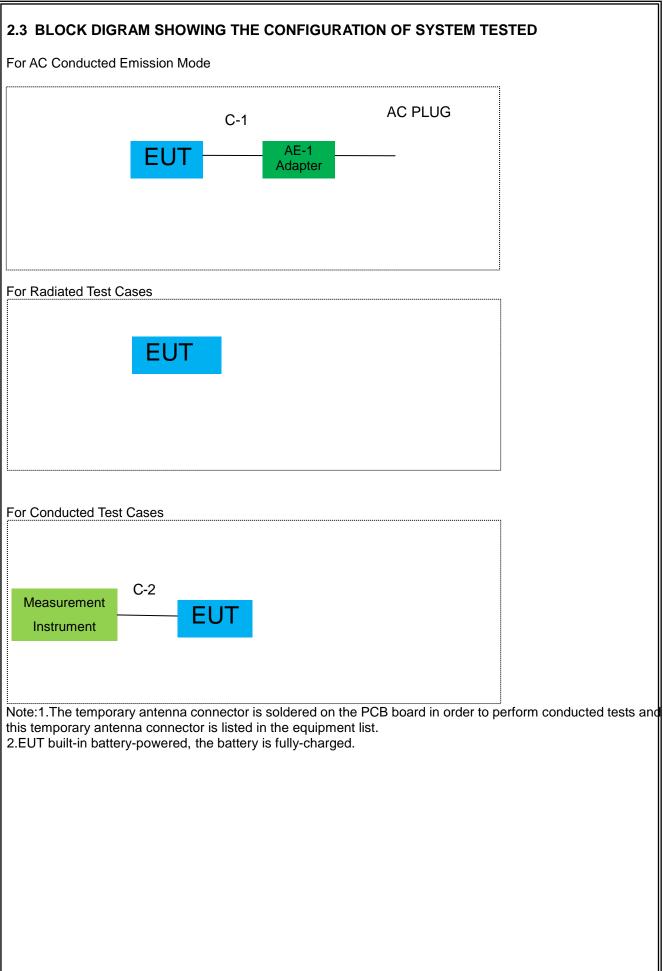
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	TX-13.56MHz

For Conducted Emission				
Final Test Mode Description				
Mode 1 TX-13.56MHz				

For Radiated Emission				
Final Test Mode Description				
Mode 1 TX-13.56MHz				







2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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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
AE-1	Adapter	OUKITEL	HJ-FC010K7-US	N/A	Peripherals

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB cable	NO	NO	0.5m
C-2	RF cable	YES	NO	0.1m

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 $\[$ Length $\]$ column.

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Page 10 of 27 Report No.: S19111903206006

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radia	Radiation& Conducted Test equipment						
Iten	N Kind of Equipment	Manufacturer	Туре No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019.08.28	2020.08.27	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2019.08.28	2020.08.27	1 year
4	Test Receiver	R&S	ESPI7	101318	2019.05.13	2020.05.12	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2019.04.15	2020.04.14	1 year
8	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.12.11	2019.12.10	1 year
9	LF Cable	N/A	R-03	N/A	2018.06.05	2021.06.05	3 year
10	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2019.08.06	2020.08.05	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2019.05.13	2020.05.12	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note:

1.We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.



3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.



4. EMC EMISSION TEST

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4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

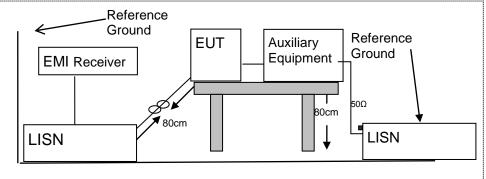
	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency

2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 TEST CONFIGURATION



4.1.3 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT 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.
- 4. 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 40cm long.
- 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



4.1.4 TEST RESULT

EUT :	Smart Phone	Model Name :	WP7
Temperature :	DG 1	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

ACCREDITED Certificate #4298.01

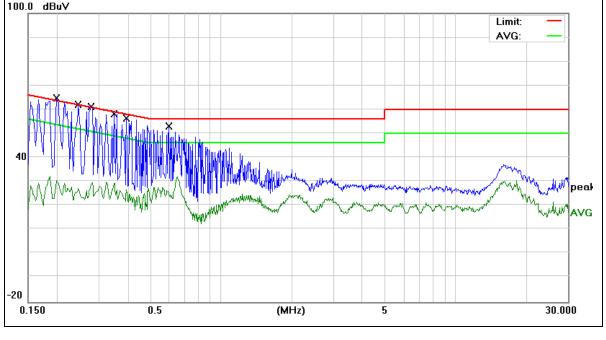
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demente
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1980	44.36	9.76	54.12	63.69	-9.57	QP
0.1980	31.57	9.76	41.33	53.69	-12.36	AVG
0.2459	42.49	9.76	52.25	61.89	-9.64	QP
0.2459	31.93	9.76	41.69	51.89	-10.20	AVG
0.2779	41.60	9.75	51.35	60.88	-9.53	QP
0.2779	30.47	9.75	40.22	50.88	-10.66	AVG
0.3497	40.41	9.73	50.14	58.97	-8.83	QP
0.3497	30.60	9.73	40.33	48.97	-8.64	AVG
0.3940	38.56	9.74	48.30	57.98	-9.68	QP
0.3940	32.28	9.74	42.02	47.98	-5.96	AVG
0.5977	40.41	9.74	50.15	56.00	-5.85	QP
0.5977	22.28	9.74	32.02	46.00	-13.98	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV

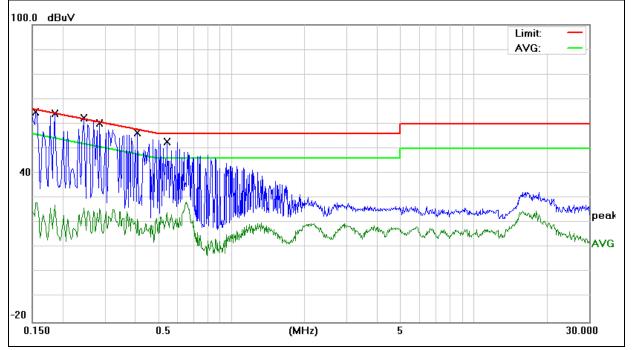




EUT :	Smart Phone	Model Name :	WP7
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1547	44.28	9.74	54.02	65.74	-11.72	QP
0.1547	30.58	9.74	40.32	55.74	-15.42	AVG
0.1859	43.60	9.73	53.33	64.21	-10.88	QP
0.1859	31.52	9.73	41.25	54.21	-12.96	AVG
0.2459	42.51	9.74	52.25	61.89	-9.64	QP
0.2459	30.95	9.74	40.69	51.89	-11.20	AVG
0.2857	40.73	9.74	50.47	60.65	-10.18	QP
0.2857	30.38	9.74	40.12	50.65	-10.53	AVG
0.4097	40.58	9.75	50.33	57.65	-7.32	QP
0.4097	30.50	9.75	40.25	47.65	-7.40	AVG
0.5420	37.57	9.75	47.32	56.00	-8.68	QP
0.5420	26.90	9.75	36.65	46.00	-9.35	AVG

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

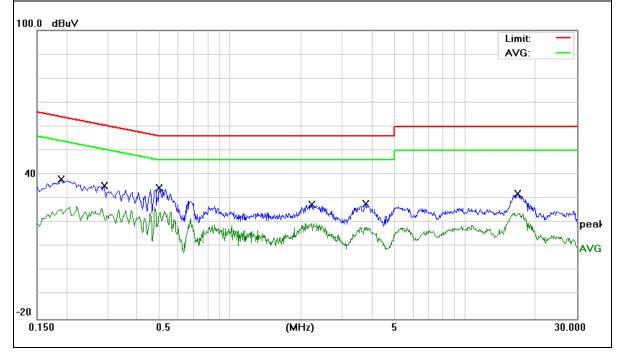




EUT :	Smart Phone	Model Name :	WP7
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode :	Mode 1

					1
Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
28.26	9.76	38.02	64.03	-26.01	QP
13.26	9.76	23.02	54.03	-31.01	AVG
25.74	9.74	35.48	60.53	-25.05	QP
11.82	9.74	21.56	50.53	-28.97	AVG
24.58	9.74	34.32	56.03	-21.71	QP
12.71	9.74	22.45	46.03	-23.58	AVG
17.64	9.78	27.42	56.00	-28.58	QP
10.33	9.78	20.11	46.00	-25.89	AVG
17.94	9.85	27.79	56.00	-28.21	QP
6.48	9.85	16.33	46.00	-29.67	AVG
21.99	10.15	32.14	60.00	-27.86	QP
8.30	10.15	18.45	50.00	-31.55	AVG
	(dBµV) 28.26 13.26 25.74 11.82 24.58 12.71 17.64 10.33 17.94 6.48 21.99	(dBµV) (dB) 28.26 9.76 13.26 9.76 25.74 9.74 11.82 9.74 24.58 9.74 12.71 9.74 17.64 9.78 17.94 9.85 6.48 9.85 21.99 10.15	(dBµV)(dB)(dBµV)28.269.7638.0213.269.7623.0225.749.7435.4811.829.7421.5624.589.7434.3212.719.7422.4517.649.7827.4210.339.7820.1117.949.8527.796.489.8516.3321.9910.1532.14	$(dB\mu V)$ (dB) $(dB\mu V)$ $(dB\mu V)$ 28.269.7638.0264.0313.269.7623.0254.0325.749.7435.4860.5311.829.7421.5650.5324.589.7434.3256.0312.719.7422.4546.0317.649.7827.4256.0010.339.7820.1146.0017.949.8527.7956.006.489.8516.3346.0021.9910.1532.1460.00	$(dB\mu V)$ (dB) $(dB\mu V)$ $(dB\mu V)$ (dB) 28.26 9.76 38.02 64.03 -26.01 13.26 9.76 23.02 54.03 -31.01 25.74 9.74 35.48 60.53 -25.05 11.82 9.74 21.56 50.53 -28.97 24.58 9.74 34.32 56.03 -21.71 12.71 9.74 22.45 46.03 -23.58 17.64 9.78 27.42 56.00 -28.58 10.33 9.78 20.11 46.00 -25.89 17.94 9.85 27.79 56.00 -28.21 6.48 9.85 16.33 46.00 -29.67 21.99 10.15 32.14 60.00 -27.86

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







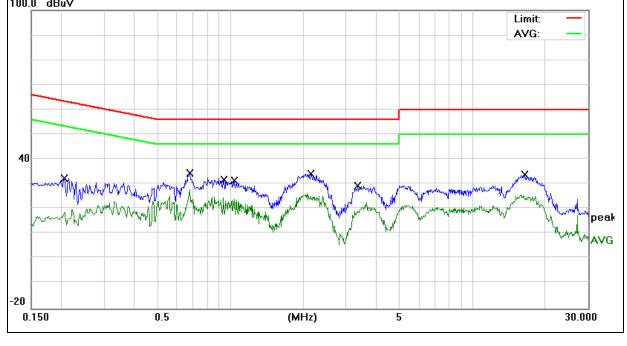
EUT :	Smart Phone	Model Name :	WP7
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 240V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2058	22.67	9.73	32.40	63.37	-30.97	QP
0.2058	13.29	9.73	23.02	53.37	-30.35	AVG
0.6820	24.84	9.75	34.59	56.00	-21.41	QP
0.6820	11.70	9.75	21.45	46.00	-24.55	AVG
0.9415	22.00	9.75	31.75	56.00	-24.25	QP
1.0339	10.83	9.75	20.58	46.00	-25.42	AVG
2.1538	24.40	9.80	34.20	56.00	-21.80	QP
2.1538	11.65	9.80	21.45	46.00	-24.55	AVG
3.3620	19.47	9.89	29.36	56.00	-26.64	QP
3.3620	16.47	9.89	26.36	46.00	-19.64	AVG
16.4695	23.81	10.13	33.94	60.00	-26.06	QP
16.4695	11.34	10.13	21.47	50.00	-28.53	AVG

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

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV





4.2 RADIATED EMISSION MEASUREMENT

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4.2.1 Radiated Emission Limits (FCC 15.209)					
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)			
0.009~0.490	2400/F(KHz)	300			
0.490~1.705	24000/F(KHz)	30			
1.705~30.0	30	30			
30~88	100	3			
88~216	150	3			
216~960	200	3			
Above 960	500	3			

Note:

(1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m)=20log Emission level (uV/m).

According to FCC Part 15.205: radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.225)

(a)The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 124dBuV/m at 3 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 90.5dBuV/m at 3 meters.
(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 80.5dBuV/m at 3 meters.
(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2.2 TEST PROCEDURE

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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz And above 1GHz,
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested

and performed pretest to three orthogonal axis. The worst case emissions were reported

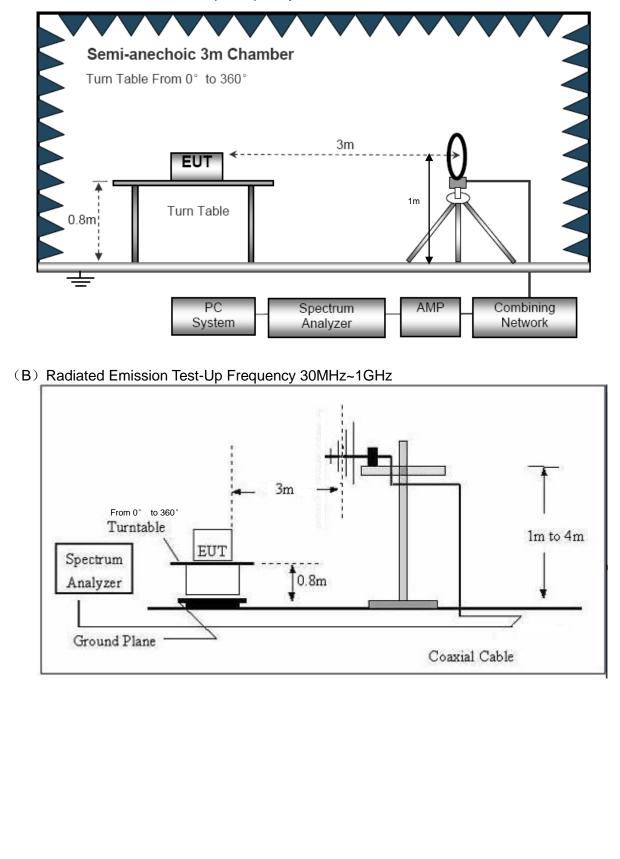
4.2.3 DEVIATION FROM TEST STANDARD

No deviation



4.2.4 TEST SETUP

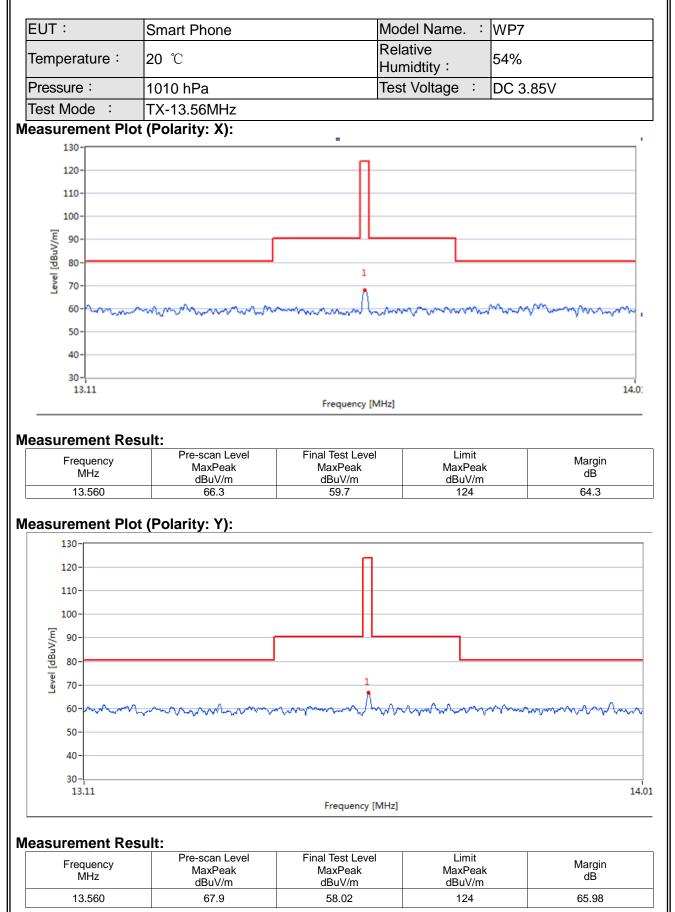
(A) Radiated Emission Test-Up Frequency Below 30MHz



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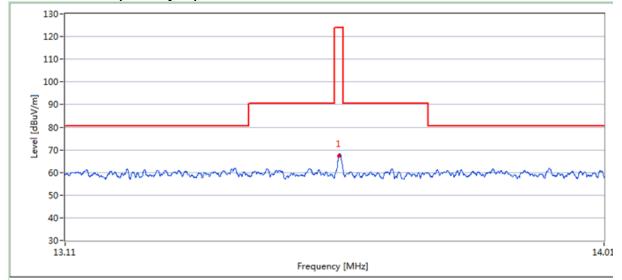
4.2.5 TEST RESULTS (BELOW 30MHz)

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Measurement Plot (Polarity: Z):

NTEK北测



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.560	67.3	60.02	124.0	63.98

Spurious emissions at 9KHz~13.110MHz & 14.010MHz~30MHz

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	Ant.Pol.	Emission			
Frequency	Ant.FOI.	Level	Limits	Margin	Detector
		(dBuV/m)			
(MHz)	dBµV	@3m	dBµV/m	(dP)	
(10112)	@3m	@5III	@3m	(dB)	
0.229	Х	67.39	100.408	-33.485	QP
1.411	Х	29.05	84.614	-36.176	QP
9.678	Х	38.73	69.542	-30.812	QP
16.332	Х	41.88	69.542	-27.662	QP
23.587	Х	38.13	69.542	-31.412	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data. X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees



4.2.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

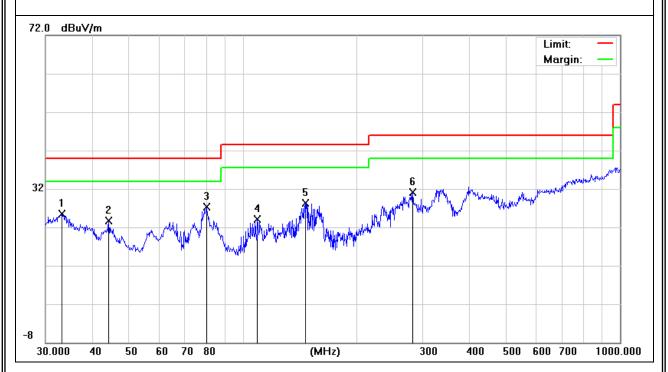
NTEK北测

EUT :	Smart Phone	Model Name :	WP7
Temperature :	20 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	ТХ	Polarization :	Horizontal

Freq.	Reading	Factor	Measurement	Limit	Over	Detector	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector	
33.2111	8.04	17.54	25.58	40.00	-14.42	QP	
44.1200	11.79	11.97	23.76	40.00	-16.24	QP	
80.0806	18.59	8.74	27.33	40.00	-12.67	QP	
109.4116	11.76	12.27	24.03	43.50	-19.47	QP	
146.3735	15.18	13.03	28.21	43.50	-15.29	QP	
281.9945	14.39	16.63	31.02	46.00	-14.98	QP	

Remark:

Factor = Antenna Factor + Cable Loss.

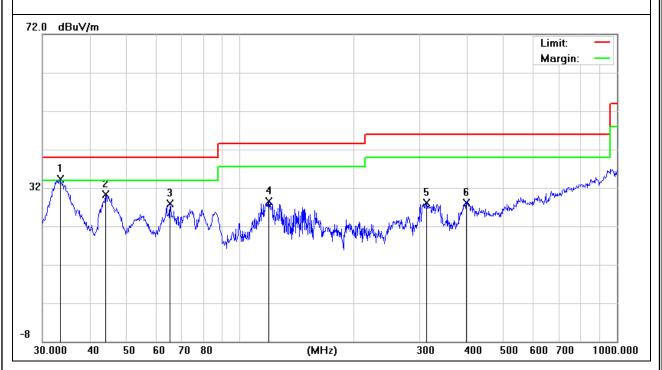




EUT:	Smart Phone	Model Name :	WP7
Temperature :	20 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	ТХ	Polarization :	Vertical

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector
33.4448	16.88	17.42	34.30	40.00	-5.70	QP
44.1200	18.28	11.97	30.25	40.00	-9.75	QP
65.3431	21.38	6.54	27.92	40.00	-12.08	QP
119.4360	15.32	13.18	28.50	43.50	-15.00	QP
313.2760	11.65	16.40	28.05	46.00	-17.95	QP
399.0300	8.53	19.57	28.10	46.00	-17.90	QP

Factor = Antenna Factor + Cable Loss.





5. BANDWIDTH TEST

5.1 TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.

2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.

3. Measured the spectrum width with power higher than 20dB below carrier.

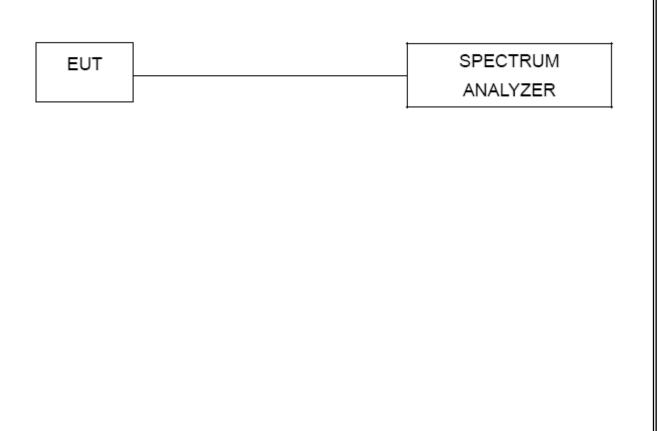
5.2 DEVIATION FROM STANDARD

15.215

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

FCC Part15.225 Operation within the band 13.110 - 14.010MHz

5.3 TEST SETUP



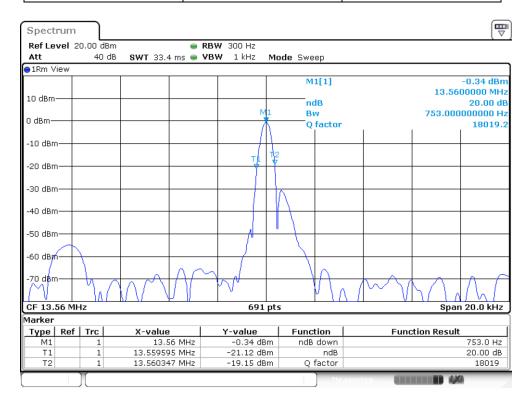


5.4 TEST RESULTS

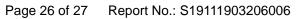
EUT :	Smart Phone	Model Name :	WP7
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1020 hPa	Test Power :	DC 3.85V
Test Mode :	ТХ		

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Test Channel	Frequency (MHz)	20 dBc Bandwidth (kHz)
CH01	13.56	0.753







6. FREQUENCY TOLERANCE

6.1 Requirement: Test	FCC Part15.225
Requirement:	
Test Method:	ANSI C63.4:2014
Requirement:	The frequency tolerance of the carrier signal shall be maintained
	within +/- 0.01% of the operating frequency over a temperature
	variation of –20 degrees to +50 degrees C at normal supply
	voltage, and for a variation in the primary supply voltage from
	85% to 115% of the rated supply voltage at a temperature of 20
	degrees C. For battery operated equipment, the equipment tests
	shall be performed using a new battery.
6.2 Test Procedure	

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1. The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.



Test Result

Power Supply	Temperature (℃)	Measured Frequency (MHz)	Frequency Error (MHz)	Result (ppm)	Part 15.225 Limit
DC 3.4V	-20	13.56033	0.00033	24.33628319	+/- 0.01%(100ppm)
	20	13.56029	0.00029	21.38643068	+/- 0.01%(100ppm)
	50	13.56004	-0.00002	-1.474926254	+/- 0.01%(100ppm)
DC 3.85V	-20	13.56014	0.00014	10.32448378	+/- 0.01%(100ppm)
	20	13.56025	0.00025	18.43657817	+/- 0.01%(100ppm)
	50	13.56068	0.00068	50.14749263	+/- 0.01%(100ppm)
DC 4.4V	-20	13.56039	0.00039	28.76106195	+/- 0.01%(100ppm)
	20	13.56029	0.00029	21.38643068	+/- 0.01%(100ppm)
	50	13.56014	0.00014	10.32448378	+/- 0.01%(100ppm)

END REPORT