



## FCC RADIO TEST REPORT FCC ID: 2ANMU-WP16

Product : Smart Phone Trade Mark : OUKITEL Model Name : WP16 Family Model : N/A Report No. : S21101103909007

## **Prepared for**

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

## Prepared by

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## **TEST RESULT CERTIFICATION**

	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China			
	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD			
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China			
Product description				
Product name:	Smart Phone			
Model and/or type reference :	WP16			
Family Model:	N/A			
Standards	FCC Part15.225			
Test procedure	ANSI C63.10-2013			
	s been tested by NTEK, and the test results show that the n compliance with the FCC requirements. And it is applicable only n the report.			
•	ced except in full, without the written approval of NTEK, this ised by NTEK, personnel only, and shall be noted in the revision of			
Data (s) of parformance of tests	13 Oct. 2021 ~ 01 Nov, 2021			
Date of Issue				
Test Result				
Testing Engine	er: <u>Allen Liu</u> (Allen Liu)			
	(************			
Authorized Sig	natory : Aless			
	(Alex Li)			





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## **1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)				
Standard Section	Lest Item		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.

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 Certificate Registration Number is L5516.
IC-Registration	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
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  $y \pm U$ , where expended uncertainty 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%



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## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone		
Trade Mark	OUKITEL		
Model Name	WP16		
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-FC017K7-US Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.0A OR 7.0V2.0A OR 9.0V2.0A OR 12.0V1.5A 18.0W		
Rating	DC 3.87V/10600mAh from battery or DC 5V from Adapter.		
HW Version	LV978_MB_V1.0		
SW Version	OUKITEL_WP16_EEA_V01		

#### 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	



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED
For AC Conducted Emission Mode
C-1 AE-1 Adapter Adapter
For Radiated Test Cases
EUT
For Conducted Test Cases C-2 Measurement Instrument EUT
Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list. 2.EUT built-in battery-powered, the battery is fully-charged.





### 2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	Model/Type No.	Series No.	Note
AE-1	Adapter	HJ-FC017K7-US	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
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 <sup>[]</sup> Length <sup>[]</sup> column.



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiatic	on& Conducted	Test equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.04.27	2022.04.26	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.19	2021.11.18	1 year
9	LF Cable	N/A	R-03	N/A	2020.05.11	2023.05.10	3 year
10	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2021.07.01	2022.06.30	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
AC Con	duction Test equ	lipment					
Item	Kind of	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	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

## 4.1 CONDUCTED EMISSION MEASUREMENT

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

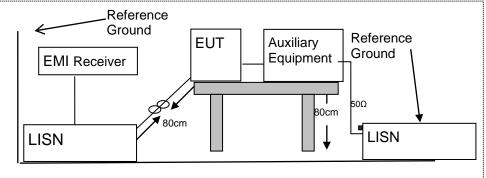
	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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

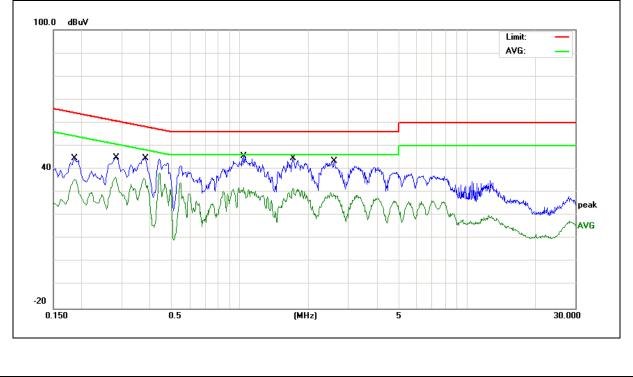
EUT :	Smart Phone	Model Name :	WP16
Temperature :	197 Y	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1859	34.96	9.66	44.62	64.21	-19.59	QP
0.1859	24.60	9.66	34.26	54.21	-19.95	AVG
0.2859	35.36	9.63	44.99	60.64	-15.65	QP
0.2859	24.52	9.63	34.15	50.64	-16.49	AVG
0.3820	35.12	9.64	44.76	58.23	-13.47	QP
0.3820	24.38	9.64	34.02	48.23	-14.21	AVG
1.0380	35.84	9.75	45.59	56.00	-10.41	QP
1.0380	25.61	9.75	35.36	46.00	-10.64	AVG
1.7139	34.74	9.76	44.50	56.00	-11.50	QP
1.7139	24.46	9.76	34.22	46.00	-11.78	AVG
2.5979	33.58	9.73	43.31	56.00	-12.69	QP
2.5979	23.48	9.73	33.21	46.00	-12.79	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





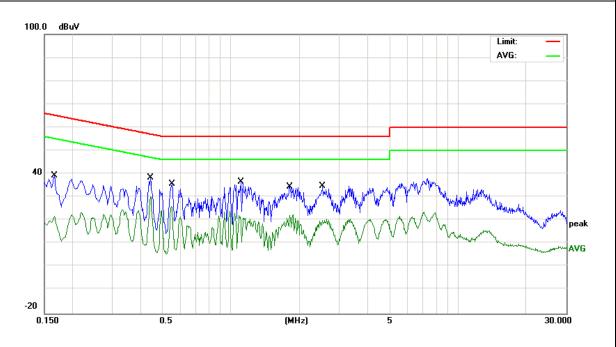
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EUT :	Smart Phone	Model Name :	WP16
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	29.65	9.63	39.28	65.15	-25.87	QP
0.1660	19.70	9.63	29.33	55.15	-25.82	AVG
0.4420	28.48	9.72	38.20	57.02	-18.82	QP
0.4420	18.43	9.72	28.15	47.02	-18.87	AVG
0.5500	25.99	9.71	35.70	56.00	-20.30	QP
0.5500	15.94	9.71	25.65	46.00	-20.35	AVG
1.1019	26.77	9.74	36.51	56.00	-19.49	QP
1.1019	16.61	9.74	26.35	46.00	-19.65	AVG
1.8180	24.80	9.68	34.48	56.00	-21.52	QP
1.8180	14.47	9.68	24.15	46.00	-21.85	AVG
2.5300	25.09	9.69	34.78	56.00	-21.22	QP
2.5300	14.97	9.69	24.66	46.00	-21.34	AVG

#### Remark:

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





### 4.2 RADIATED EMISSION MEASUREMENT

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 15.247(d): 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

- 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

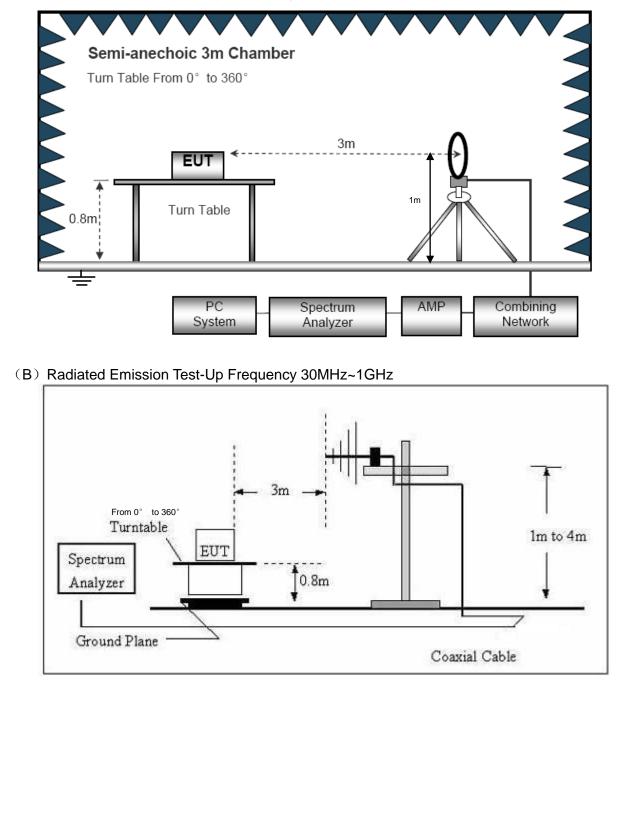
No deviation





### 4.2.4 TEST SETUP

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





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## 4.2.5 TEST RESULTS (BELOW 30MHz)

EUT :	Smart Phone	Model Name.	WP16
Femperature :	20 °C	Relative Humidtity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Fest Mode :	TX-13.56MHz		
easurement Plot	(Polarity: X):		
130-			
120-			
110-			
100-			
N <sup>n</sup>		1	
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13.11			14

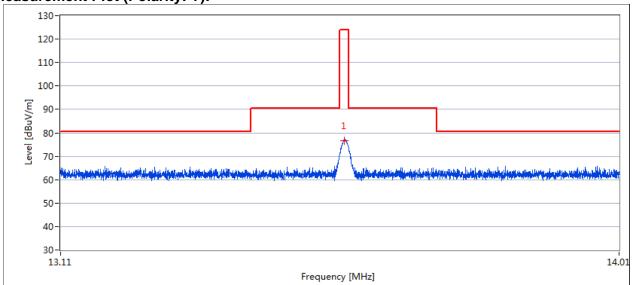
#### Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.560	77.8	77.8	124.0	46.2



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### Measurement Plot (Polarity: Y):



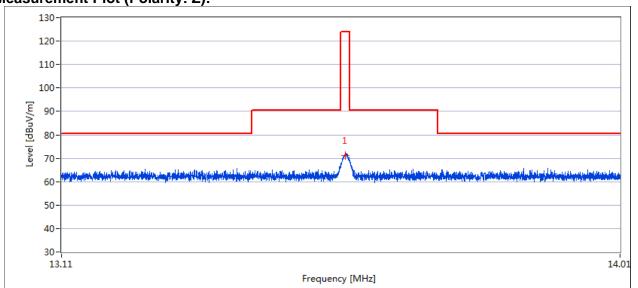
#### **Measurement Result:**

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.560	76.9	77.3	124.0	46.7



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### Measurement Plot (Polarity: Z):



#### **Measurement Result:**

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.561	73.2	72.3	124.0	51.7





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

Frequency	Ant.Pol.	Emission Level (dBuV/m)	Limits	Margin	Detector
(MHz)	dBµV @3m	@3m	dBµV/m @3m	(dB)	
0.315	Х	43.59	99.640	-56.05	Avg
1.392	Х	36.1	64.730	-28.63	QP
7.419	Х	42.57	69.542	-26.97	QP
15.714	Х	37.00	69.542	-32.54	QP
23.664	Х	39.43	69.542	-30.11	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



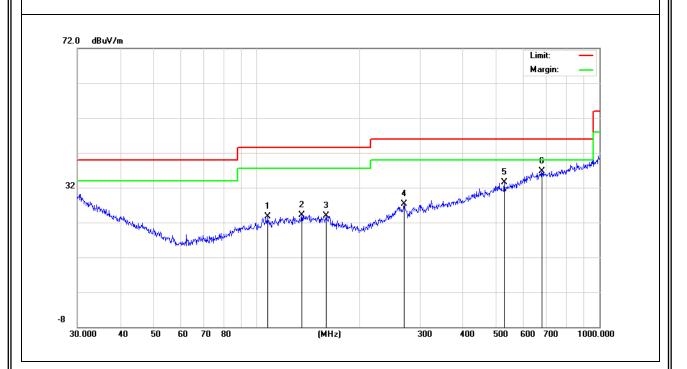
## 4.2.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

EUT:	Smart Phone	Model Name :	WP16
Temperature :	<b>24</b> ℃	Relative Humidity :	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	ТХ	Polarization :	Horizontal

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
107.8876	6.68	17.12	23.80	43.50	-19.70	QP
135.5062	5.66	18.45	24.11	43.50	-19.39	QP
159.2250	5.74	18.15	23.89	43.50	-19.61	QP
269.4284	6.14	21.22	27.36	46.00	-18.64	QP
528.2458	7.13	26.42	33.55	46.00	-12.45	QP
679.9600	7.03	29.65	36.68	46.00	-9.32	QP

#### Remark:

Factor = Antenna Factor + Cable Loss.







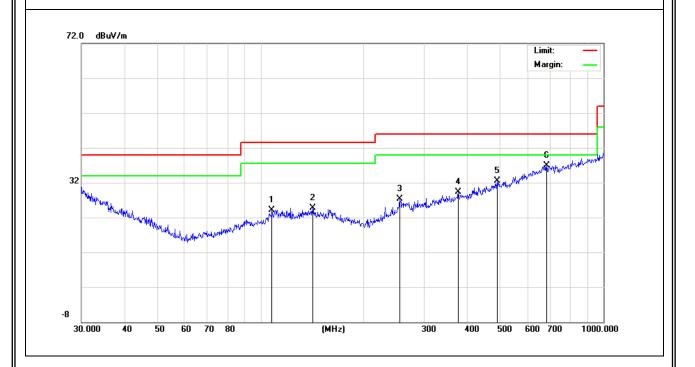
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EUT :	Smart Phone	Model Name :	WP16
Temperature :	<b>24</b> ℃	Relative Humidity :	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	ТХ	Polarization :	Vertical

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
107.8876	7.08	17.12	24.20	43.50	-19.30	QP
141.8262	5.96	18.82	24.78	43.50	-18.72	QP
254.7283	6.56	20.69	27.25	46.00	-18.75	QP
377.2590	6.04	23.26	29.30	46.00	-16.70	QP
489.0269	6.04	26.37	32.41	46.00	-13.59	QP
682.3483	7.24	29.63	36.87	46.00	-9.13	QP

#### Remark:

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.

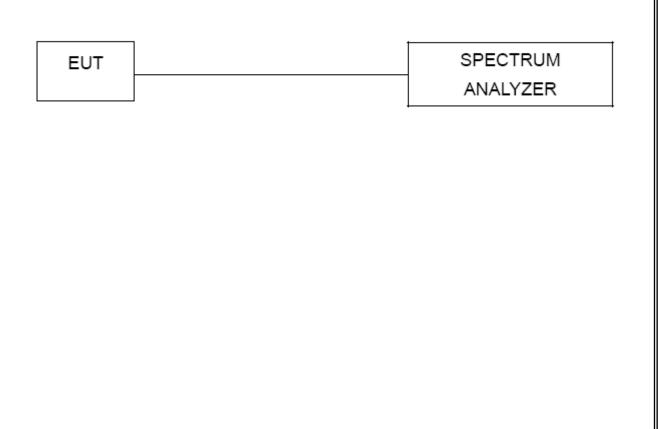
## 5.2 DEVIATION FROM STANDARD

## 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



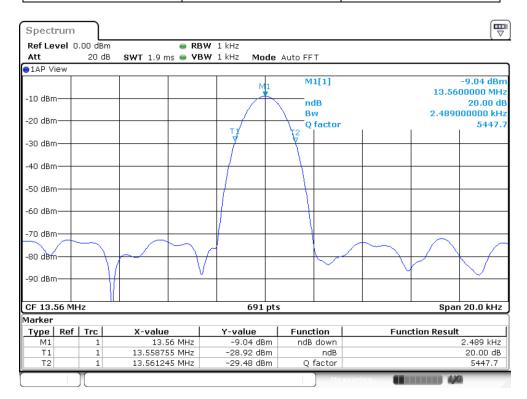




### 5.4 TEST RESULTS

EUT :	Smart Phone	Model Name :	WP16
Temperature :	<b>26</b> °C	Relative Humidity :	54%
Pressure :	1020 hPa	Test Power :	DC 3.87V
Test Mode :	ТХ		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (kHz)
CH01	13.56	2.489







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## **6. FREQUENCY TOLERANCE**

6.1 Requirement: Test Requirement:	FCC Part15.225
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	9

### 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
	-20	13.56009	0.00009	6.64	+/- 0.01%(100ppm)
DC 3.4V	20	13.5601	0.00010	7.37	+/- 0.01%(100ppm)
	50	13.56011	0.00011	8.11	+/- 0.01%(100ppm)
	-20	13.56012	0.00012	8.85	+/- 0.01%(100ppm)
DC 3.87V	20	13.56008	0.00008	5.90	+/- 0.01%(100ppm)
	50	13.56011	0.00011	8.11	+/- 0.01%(100ppm)
	-20	13.56009	0.00009	6.64	+/- 0.01%(100ppm)
DC 4.2V	20	13.5601	0.00010	7.37	+/- 0.01%(100ppm)
	50	13.56012	0.00012	8.85	+/- 0.01%(100ppm)

END REPORT