FCC Test Report FCC ID: ZSHX80

Product: Mobile Phone

Trade Mark: KXD,EL,Kenxinda,E&L,Ken mobile

Model Number: X80

Family Model: X85, X90

Report No.: STR220209002006E

Prepared for

SHENZHEN KENXINDA TECHNOLOGY CO.,LTD

18TH FLOOR, FUCHUN ORIENT BUILDING, SHENNAN AV 7006,
SHENZHEN China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn

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TEST RESULT CERTIFICATION

Applicant's name SHENZHEN KENXINDA TECHNOLOGY C	O.,LTD
---	--------

18TH FLOOR, FUCHUN ORIENT BUILDING, SHENNAN AV

7006, SHENZHEN China

Manufacturer's Name.....: SHENZHEN KENXINDA TECHNOLOGY CO.,LTD

18TH FLOOR, FUCHUN ORIENT BUILDING, SHENNAN AV Address....:

7006, SHENZHEN China

Product description

Test sample Number T220209002R003

Product name...... Mobile Phone

Model and/or type reference .: X80

Family Model..... X85, X90

FCC Part15B

Standards ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Date of Test

Date (s) of performance of tests Feb 09, 2022 ~Apr 21, 2022

Date of Issue Apr 21, 2022

Test Result Pass

Testing Engineer

(Mary Hu)

Authorized Signatory:

(Alex Li)

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1. TEST SUMMARY

Test procedures according to the technical standards:

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

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Report No.: STR220209002006E

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

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

Shenzhen 518126 P.R. China.

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

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	±2.80dB	

B. Radiated Measurement:

Test Site	Method	d Measurement Frequency Range		NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone	Mobile Phone			
Trade Mark	KXD,EL,Kenxinda,E&L,k	Ken mobile			
Model Name	X80				
Family Model	X85, X90				
Model Difference	All models are the same	circuit and RF module, except the Model name.			
Product Description	Manual, the EUT is cons	Micro USB, Earphone 5.825GHz , features, or specification exhibited in User's idered as an ITE/Computing Device. More details ation, please refer to the User's Manual.			
Adapter	Model: CD-28 Input: AC 100-240V~50/60Hz 0.3A Output: DC 5V2A				
Battery	DC 3.85V, 4900mAh,18.87Wh				
Power supply	DC 3.85V from battery or DC 5V from Adapter.				
HW Version	S225_MB_V1.2				
SW Version	X80_MT6762_JZ_EL_V2	2.0_oy_20220120			

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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.

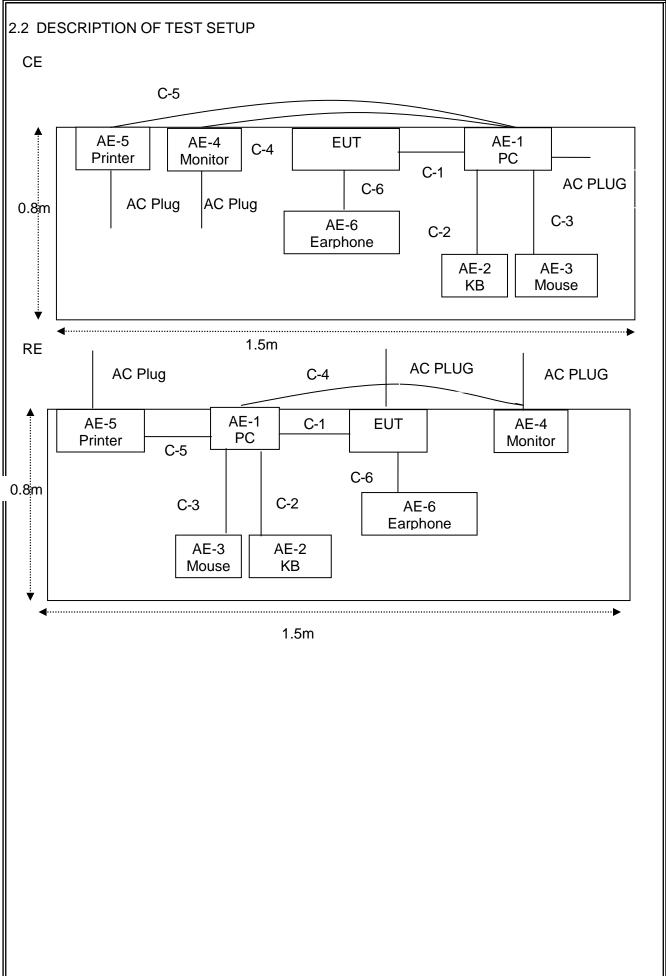
Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

For Conducted Test				
Final Test Mode	Description			
Mode 1	USB Data Transmission			
Mode 2	TF card Playing			
Mode 3	REC			
Mode 4	FM			
Mode 5	GPS			

For Radiated Test				
Final Test Mode	Description			
Mode 1	USB Data Transmission			
Mode 2	TF card Playing			
Mode 3	REC			
Mode 4	FM			
Mode 5	GPS			

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.

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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
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	N/A	N/A	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	DELL	IN2020MB	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals
AE-6	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	USB Cable	NO	NO	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	
C-6	Earphone Cable	NO	NO	1.2m	

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.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

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2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2021.04.27	2022.04.26	1 year
2	Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2021.04.27	2022.04.26	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2021.04.27	2022.04.26	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2021.04.27	2022.04.26	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2021.04.27	2022.04.26	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2021.04.27	2022.04.26	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2021.04.27	2022.04.26	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2019.06.28	2022.06.27	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2019.06.28	2022.06.27	3 year
15	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year

AC Conduction Test equipment

	AC Conduction Test equipment						
Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	n 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	SCHWAR ZBECK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (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

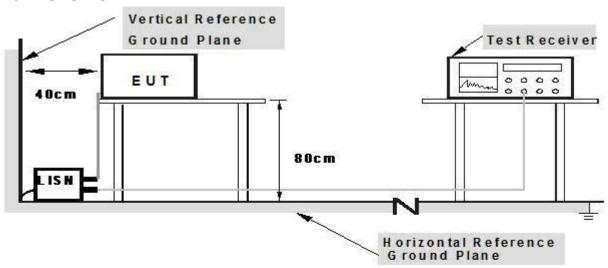
The following table is the setting of the receiver				
Receiver Parameters	Setting			
Attenuation	10 dB			
Start Frequency	0.15 MHz			
Stop Frequency	30 MHz			
IF Bandwidth	9 kHz			

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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 (AMN) 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.

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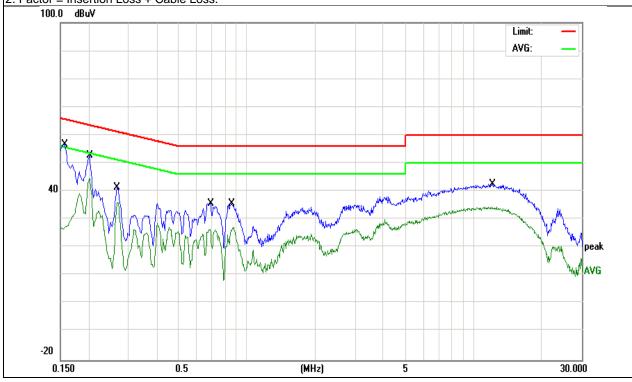
3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name. :	X80
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-04-07
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
0.1580	47.08	9.71	56.79	65.56	-8.77	QP
0.1580	18.06	9.71	27.77	55.56	-27.79	AVG
0.2020	43.02	9.63	52.65	63.52	-10.87	QP
0.2020	34.90	9.63	44.53	53.52	-8.99	AVG
0.2660	31.80	9.63	41.43	61.24	-19.81	QP
0.2660	26.36	9.63	35.99	51.24	-15.25	AVG
0.6900	25.86	9.73	35.59	56.00	-20.41	QP
0.6900	16.75	9.73	26.48	46.00	-19.52	AVG
0.8540	25.83	9.74	35.57	56.00	-20.43	QP
0.8540	17.65	9.74	27.39	46.00	-18.61	AVG
12.1819	32.82	9.76	42.58	60.00	-17.42	QP
12.1819	24.72	9.76	34.48	50.00	-15.52	AVG

Remark:

2. Factor = Insertion Loss + Cable Loss.



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^{1.} All readings are Quasi-Peak and Average values.

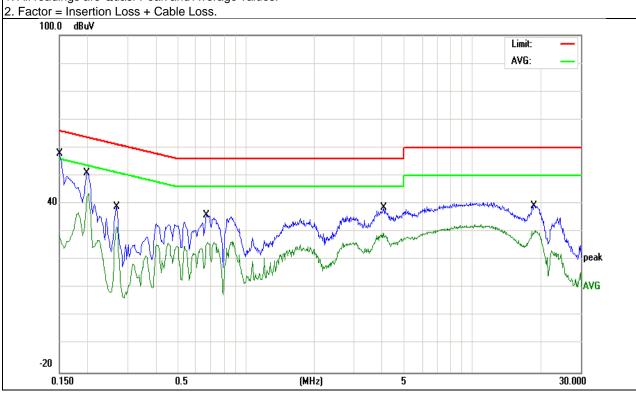


EUT:	Mobile Phone	Model Name. :	X80
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-04-07
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	48.30	9.63	57.93	65.99	-8.06	QP
0.1500	18.47	9.63	28.10	55.99	-27.89	AVG
0.1980	41.44	9.63	51.07	63.69	-12.62	QP
0.1980	34.02	9.63	43.65	53.69	-10.04	AVG
0.2700	29.43	9.65	39.08	61.12	-22.04	QP
0.2700	22.13	9.65	31.78	51.12	-19.34	AVG
0.6700	26.35	9.65	36.00	56.00	-20.00	QP
0.6700	16.67	9.65	26.32	46.00	-19.68	AVG
4.0579	28.87	9.77	38.64	56.00	-17.36	QP
4.0579	19.80	9.77	29.57	46.00	-16.43	AVG
18.7099	29.47	9.74	39.21	60.00	-20.79	QP
18.7099	20.75	9.74	30.49	50.00	-19.51	AVG

Remark:

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



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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 worst case is recorded in the report

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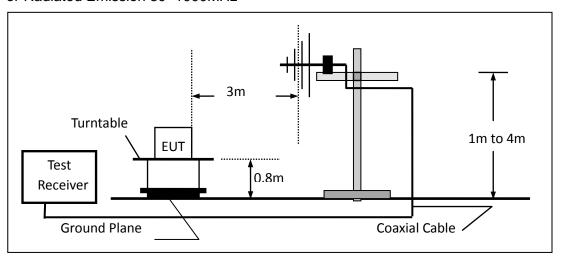


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

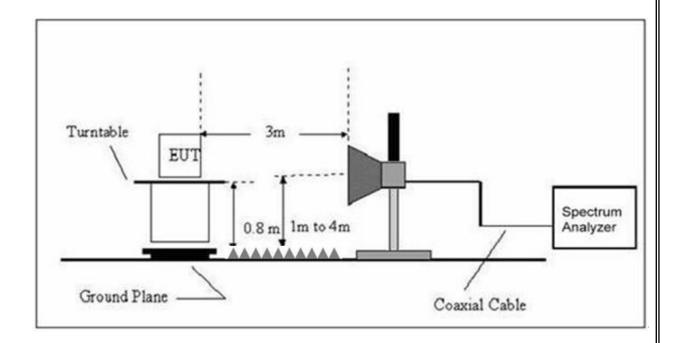
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



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3.2.4 TEST RESULTS

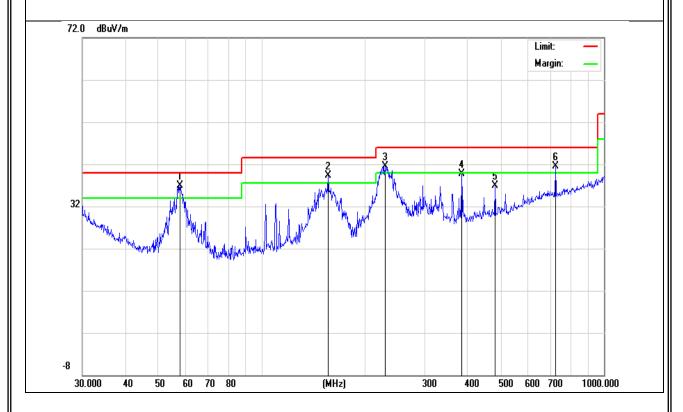
TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	X80
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-04-06
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)	reman
Н	57.7961	25.16	11.84	37.00	40.00	-3.00	QP
Н	156.4577	21.72	17.63	39.35	43.50	-4.15	QP
Н	229.2931	24.48	17.02	41.50	46.00	-4.50	QP
Н	383.9318	17.19	22.51	39.70	46.00	-6.30	QP
Н	480.5276	12.24	24.59	36.83	46.00	-9.17	QP
Н	721.7259	13.41	28.19	41.60	46.00	-4.40	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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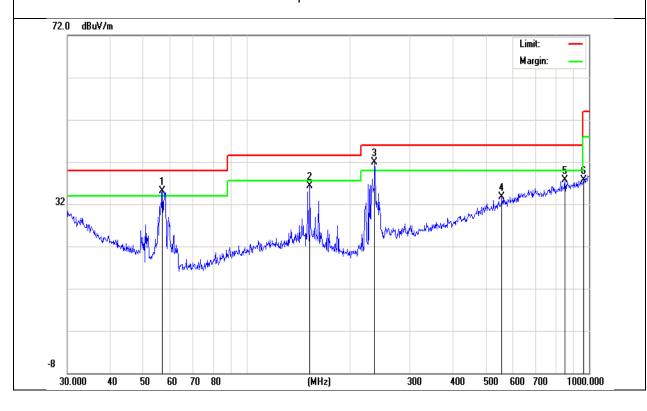


EUT:	Mobile Phone	Model Name :	X80
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-04-06
Test Mode:	Mode 1	Polarization :	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	56.7916	23.02	12.04	35.06	40.00	-4.94	QP
V	153.2004	18.53	17.73	36.26	43.50	-7.24	QP
V	236.6447	24.44	17.56	42.00	46.00	-4.00	QP
V	556.7744	7.77	25.93	33.70	46.00	-12.30	QP
V	851.0353	7.94	29.80	37.74	46.00	-8.26	QP
V	965.5421	6.54	31.24	37.78	54.00	-16.22	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	X80		
Temperature:	24.5 ℃	Relative Humidity:	55%		
Pressure:	1010 hPa	Test Date :	2022-04-07		
Test Mode:	Mode 1				
Test Power:	Power: DC 5V from PC AC 120V/60Hz				

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

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	2955	39.67	4.78	44.45	74	-29.55	peak
V	4272.5	36.95	6.76	43.71	74	-30.29	peak
V	5420	36.75	7.75	44.5	74	-29.5	peak
V	7885	36.44	9.58	46.02	74	-27.98	peak
V	13962.5	36.28	13.44	49.72	74	-24.28	peak
V	16980	36.16	14.89	51.05	74	-22.95	peak
Н	2955	39.56	4.78	44.34	74	-29.66	peak
Н	4230	36.64	6.68	43.32	74	-30.68	peak
Н	7715	35.93	9.43	45.36	74	-28.64	peak
Н	9032.5	35.94	10.45	46.39	74	-27.61	peak
Н	14472.5	36.91	12.93	49.84	74	-24.16	peak
Н	16725	36.2	14.78	50.98	74	-23.02	peak

Remark:

Result = Reading + Correct, Over Limit= Result - Limit

Note: Only the worst results data points are reported in the report.

Other emissions are attenuated 20dB below the limit that does not recorded in the report.

END OF REPORT

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