FCC Test Report FCC ID: ZSHX70

Product: Mobile Phone

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

Model Number: X70 Family Model: N/A

Report No.: STR220209001007E

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 CO.,LTD

Address:	18TH FLOOR, FUCHUN ORIENT BUILDING, SHE 7006, SHENZHEN China	ENNAN AV
Manufacturer's Name:	SHENZHEN KENXINDA TECHNOLOGY CO.,LTD	
Address:	18TH FLOOR, FUCHUN ORIENT BUILDING, SHE 7006, SHENZHEN China	ENNAN AV
Product description		
Test sample Number	T220209001R003	
Product name:	Mobile Phone	
Model and/or type reference :	X70	
Family Model:		
Standards	FCC Part15B ANSI C63.4:2014	
	s been tested by NTEK, and the test results show to n compliance with Part 15 of FCC Rules. And it is a n the report.	
This report shall not be reproduc	ced except in full, without the written approval of N	ΓΕΚ, this
· ·	ised by NTEK, personnel only, and shall be noted i	n the revision
of the document.		
Date of Test		
	: Feb 09, 2022 ~Apr 08, 2022	
Date of Issue	: Apr 08, 2022	
Test Result	: Pass	
Testing Engine	er: Muhzi Lee	
	(Mukzi Lee)	
Authorized Sig	natory:	
	(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.: STR220209001007E

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	Measurement Frequency Range	U, (dB)	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	., Ken mobile			
Model Name	X70				
Family Model	N/A				
Model Difference	N/A				
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 5V==-2A				
Battery	DC 3.85V, 4000mAh, 15.4Wh				
Power supply	DC 3.85V from battery or DC 5V from Adapter.				
HW Version	S225_MB_V1.2				
SW Version	X70_mt6761_JZ_EL_V3	.0_20220317			

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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.

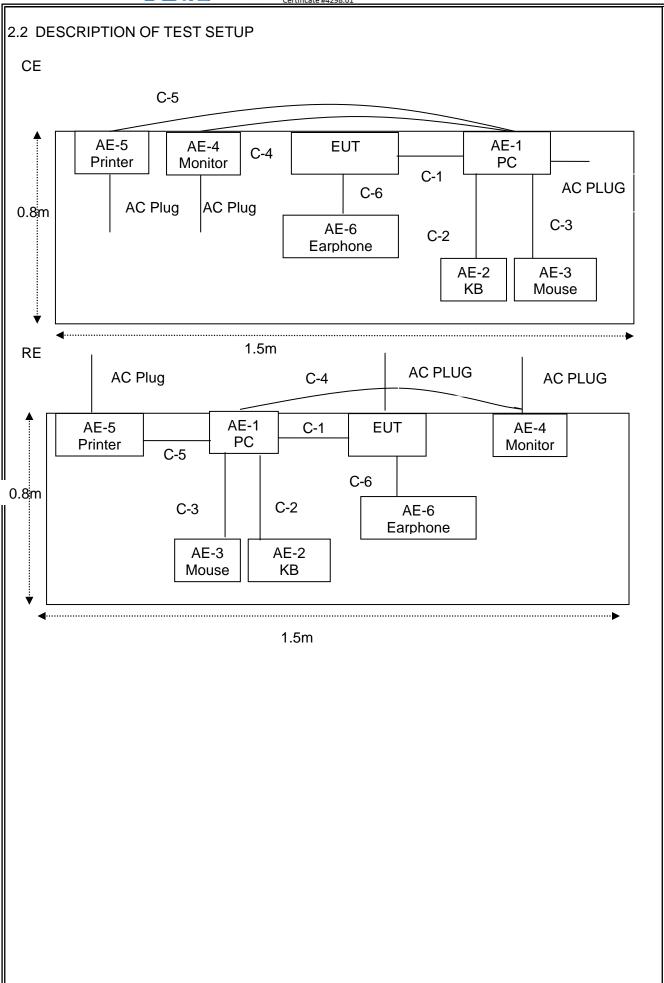
Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

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	КВ	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	ОИ	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 <code>[Length]</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

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2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

- Nauli	ation rest equip	JIIICIIL					:
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

Item	Vind of	Manufactu	Tuna Na	Serial No.	Loot	Calibrated	Calibratio
item	Kind of		Type No.	Serial No.	Last		
	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				

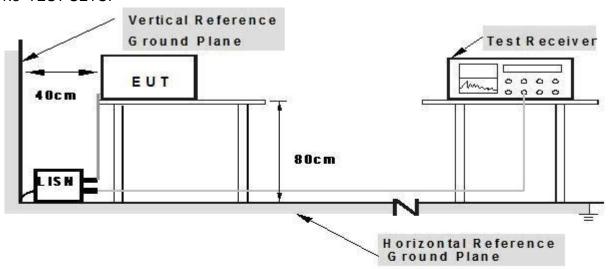
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3.1.2 TEST PROCEDURE

- 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 LISN.

2.Both of LISNs (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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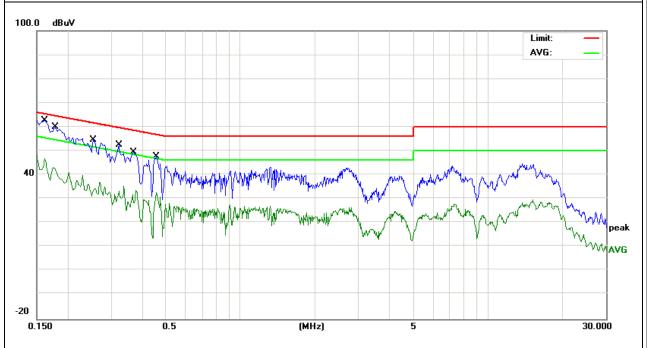
3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name. :	X70	
Temperature:	24.5 ℃	Relative Humidity:	52%	
Pressure:	1010hPa	Test Date:	2022-03-12	
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	52.91	9.71	62.62	65.36	-2.74	QP
0.1620	36.93	9.71	46.64	55.36	-8.72	AVG
0.1779	50.29	9.67	59.96	64.58	-4.62	QP
0.1779	33.11	9.67	42.78	54.58	-11.80	AVG
0.2540	44.95	9.63	54.58	61.62	-7.04	QP
0.2540	24.46	9.63	34.09	51.62	-17.53	AVG
0.3220	42.67	9.63	52.30	59.65	-7.35	QP
0.3220	23.49	9.63	33.12	49.65	-16.53	AVG
0.3659	39.83	9.64	49.47	58.59	-9.12	QP
0.3659	22.16	9.64	31.80	48.59	-16.79	AVG
0.4580	38.03	9.64	47.67	56.73	-9.06	QP
0.4580	22.93	9.64	32.57	46.73	-14.16	AVG

Remark:

^{2.} Factor = Insertion Loss + Cable Loss.



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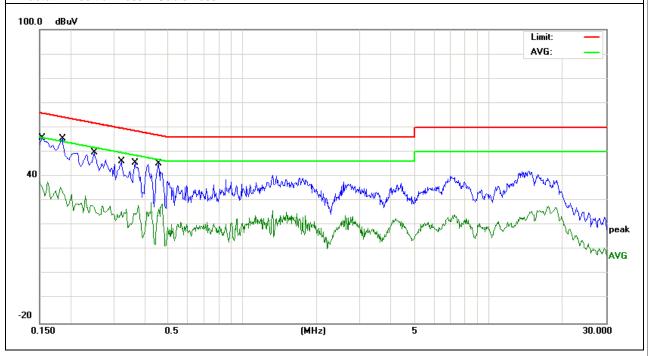
^{1.} All readings are Quasi-Peak and Average values.



	Certificate #4298	3.01	
EUT:	Mobile Phone	Model Name. :	X70
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-03-12
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
0.1547	45.50	9.63	55.13	65.74	-10.61	QP
0.1547	24.30	9.63	33.93	55.74	-21.81	AVG
0.1859	45.79	9.63	55.42	64.21	-8.79	QP
0.1859	23.82	9.63	33.45	54.21	-20.76	AVG
0.2500	40.02	9.65	49.67	61.75	-12.08	QP
0.2500	17.17	9.65	26.82	51.75	-24.93	AVG
0.3220	36.34	9.67	46.01	59.65	-13.64	QP
0.3220	15.34	9.67	25.01	49.65	-24.64	AVG
0.3659	35.77	9.70	45.47	58.59	-13.12	QP
0.3659	15.00	9.70	24.70	48.59	-23.89	AVG
0.4580	35.37	9.73	45.10	56.73	-11.63	QP
0.4580	17.05	9.73	26.78	46.73	-19.95	AVG

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



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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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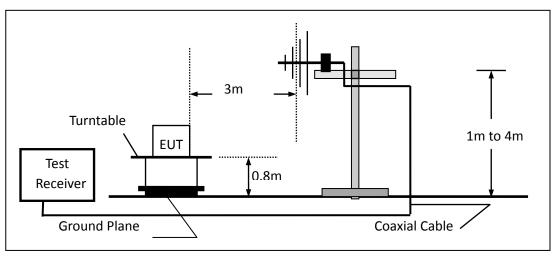


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

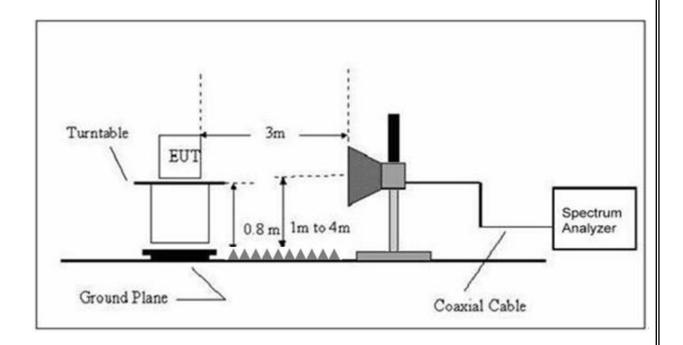
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

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

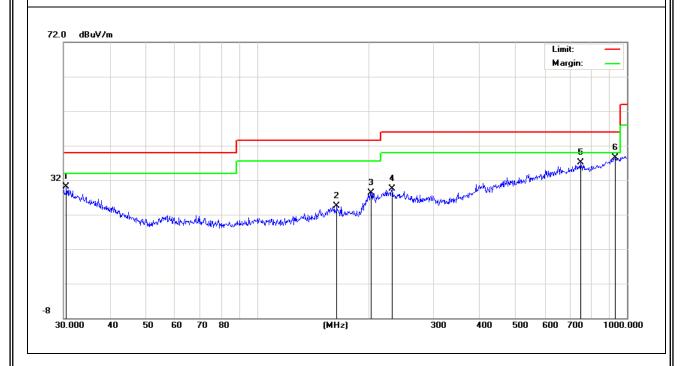
TEST RESULTS (30~1000 MHz)

	(00 1000 1111 1=)		
EUT:	Mobile Phone	Model Name:	X70
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-03-10
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	30.5304	6.70	23.33	30.03	40.00	-9.97	QP
Н	164.3300	7.52	16.89	24.41	43.50	-19.09	QP
Н	203.5226	11.00	17.39	28.39	43.50	-15.11	QP
Н	231.7178	10.98	18.51	29.49	46.00	-16.51	QP
Н	750.1082	7.86	29.30	37.16	46.00	-8.84	QP
Н	929.0081	6.67	31.87	38.54	46.00	-7.46	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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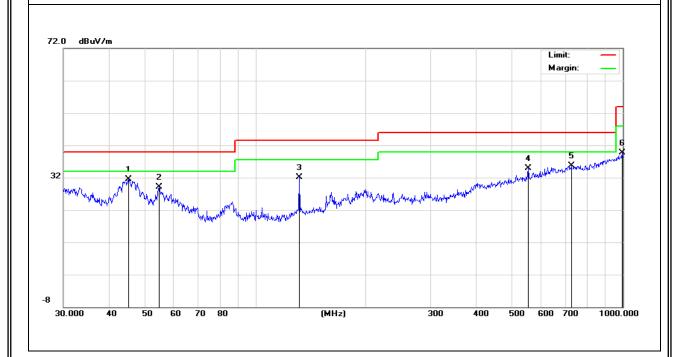


EUT:	Mobile Phone	Model Name :	X70
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-03-10
Test Mode :	Mode 1	Polarization :	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	45.0583	15.26	16.34	31.60	40.00	-8.40	QP
V	54.6429	14.83	14.35	29.18	40.00	-10.82	QP
V	131.7577	16.25	15.82	32.07	43.50	-11.43	QP
V	552.8832	8.15	26.83	34.98	46.00	-11.02	QP
V	724.2611	6.79	28.87	35.66	46.00	-10.34	QP
V	996.4996	7.21	32.50	39.71	54.00	-14.29	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	X70		
Temperature:	24.5 ℃	Relative Humidity:	55%		
Pressure:	1010 hPa	Test Date :	2022-03-11		
Test Mode:	Mode 1				
Test 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	38.99	2.46	41.45	74	-32.55	peak
V	4230	38.17	4.3	42.47	74	-31.53	peak
V	6525	35.57	8.63	44.2	74	-29.8	peak
V	9075	36.19	12.25	48.44	74	-25.56	peak
V	11200	35.29	14.12	49.41	74	-24.59	peak
V	14005	36.39	15.59	51.98	74	-22.02	peak
Н	2955	39.93	2.46	42.39	74	-31.61	peak
Н	4230	38.3	4.3	42.6	74	-31.4	peak
Н	7715	36.66	11.28	47.94	74	-26.06	peak
Н	11200	35.62	14.12	49.74	74	-24.26	peak
Н	13367.5	36.16	14.96	51.12	74	-22.88	peak
Н	13962.5	36.62	15.57	52.19	74	-21.81	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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