FCC Test Report FCC ID:055131324

Product: 3G DESK PHONE

Trade Mark: LOGIC, UNONU, iSWAG

Model Number: FIXO 800

Family Model: Q800

Report No.: \$24040802801002

Prepared for

SWAGTEK 10205 NW 19th Street STE101Miami, FL 33172

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community,
Xixiang Street Bao'an District, Shenzhen 518126 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

Αp	plicant's	name:	SWAGTEK
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Manufacturer's Name...... SWAGTEK

Address...... 10205 NW 19th Street STE101Miami, FL 33172

Product description

Test Sample Number...... S240408028001 Product name...... 3G DESK PHONE

Model and/or type reference .: FIXO 800

Family Model..... Q800

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 Apr 08, 2024 ~ Apr 25, 2024

Date of Issue Apr 25, 2024

Test Result: **Pass**

Prepared Βv

(Project Engineer)

Reviewed

Ву :-Aaron Cheng (Supervisor)

Approved Ву

(Manager)

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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.: S24040802801002

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community,

Hangcheng Street, Baoan District, Shenzhen, Guangdong, 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	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	3G DESK PHONE		
Trade Mark	LOGIC, UNONU, iSWAG		
Model Name	FIXO 800		
Family Model	Q800		
Model Difference	All models are the same circuit and RF module, except for the model name.		
Product Description	Connecting I/O port: USB Operation Frequency: 2.4GHz Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Model: XH005W050100USCD Adapter INPUT: AC 100-240V 50-60Hz 0.2A 5W MAX OUTPUT: DC 5.0V == 1.0A 5W MAX			
Battery	DC 3.7V/1000mAh		
Power supply	DC 3.7V from battery or DC 5V from Adapter.		
HW Version	KL1701_HW_V01		
SW Version T107_N18_FIXO_800_0004_20220623_1406			

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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	Charging+Working
Mode 2	FM

For Conducted Test				
Final Test Mode Description				
Mode 1	Charging+Working			
Mode 2	FM			

For Radiated Test				
Final Test Mode	Description			
Mode 1	Charging+Working			
Mode 2	FM			

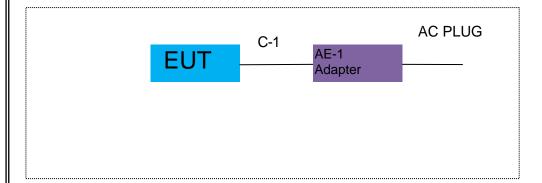
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.

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2.2 DESCRIPTION OF TEST SETUP

CE



C-1 AC PLUG

AC-1
Adapter
AC-1
Adapter

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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
EUT	3G DESK PHONE	LOGIC, UNONU, iSWAG	FIXO 800	N/A	EUT
AE-1	Adapter	N/A	XH005W050100US CD	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	1.0m	

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

	ation rest equip						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.03.12	2025.03.11	1 year
2	Test Receiver	R&S	ESPI	101318	2024.03.12	2025.03.11	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2024.03.12	2025.03.11	1 year
6	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2025.03.30	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	3 year
8	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2023.05.29	2024.05.28	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN O84	2023.05.29	2024.05.28	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619.0 5	2024.03.12	2025.03.11	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
13	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2023.05.06	2026.05.05	3 year
15	Test Receiver	R&S	ESCI	101160	2024.03.12	2025.03.11	1 year

AC Conduction Test equipment

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	2024.03.12	2025.03.11	1 year
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.03.12	2025.03.11	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	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)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MINZ)	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

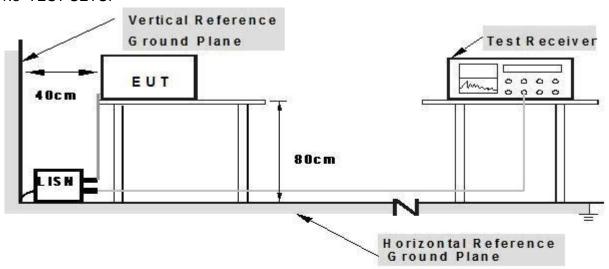
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3.1.2 TEST PROCEDURE

- 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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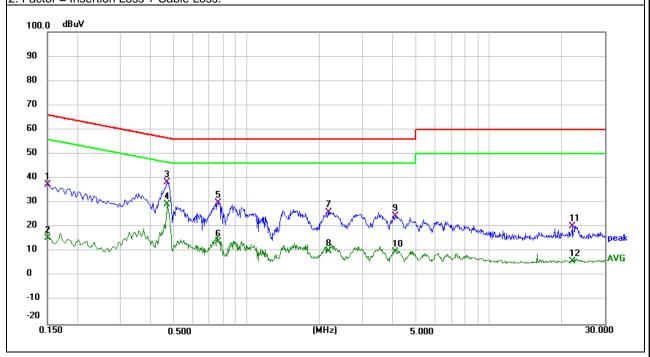
3.1.5 TEST RESULTS

EUT:	3G DESK PHONE	Model Name. :	FIXO 800
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2024-04-22
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
0.1500	27.62	9.93	37.55	66.00	-28.45	QP
0.1500	5.54	9.93	15.47	56.00	-40.53	AVG
0.4700	27.78	10.59	38.37	56.51	-18.14	QP
0.4700	18.72	10.59	29.31	46.51	-17.20	AVG
0.7620	18.72	11.18	29.90	56.00	-26.10	QP
0.7620	2.85	11.18	14.03	46.00	-31.97	AVG
2.1780	16.52	9.66	26.18	56.00	-29.82	QP
2.1780	0.62	9.66	10.28	46.00	-35.72	AVG
4.1060	15.03	9.67	24.70	56.00	-31.30	QP
4.1060	0.24	9.67	9.91	46.00	-36.09	AVG
21.9740	10.61	9.69	20.30	60.00	-39.70	QP
21.9740	-3.75	9.69	5.94	50.00	-44.06	AVG

Remark:

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



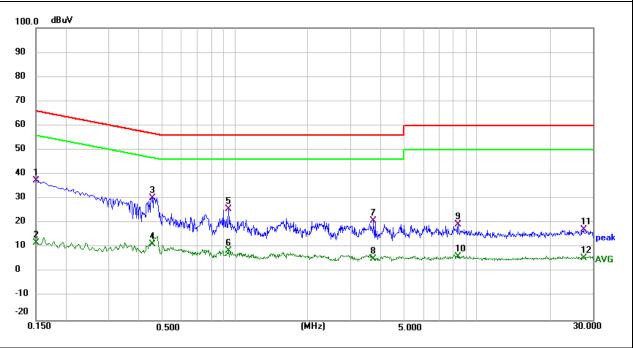
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EUT:	3G DESK PHONE	Model Name. :	FIXO 800
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2024-04-22
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	27.57	9.93	37.50	66.00	-28.50	QP
0.1500	2.07	9.93	12.00	56.00	-44.00	AVG
0.4540	19.74	10.55	30.29	56.80	-26.51	QP
0.4540	0.86	10.55	11.41	46.80	-35.39	AVG
0.9420	14.08	11.54	25.62	56.00	-30.38	QP
0.9420	-3.00	11.54	8.54	46.00	-37.46	AVG
3.7300	11.30	9.67	20.97	56.00	-35.03	QP
3.7300	-4.39	9.67	5.28	46.00	-40.72	AVG
8.3580	9.69	9.68	19.37	60.00	-40.63	QP
8.3580	-3.40	9.68	6.28	50.00	-43.72	AVG
27.4260	7.81	9.59	17.40	60.00	-42.60	QP
27.4260	-3.86	9.59	5.73	50.00	-44.27	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. 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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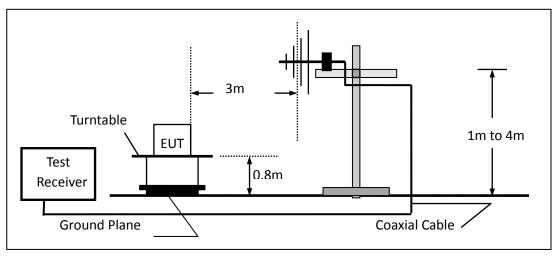


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

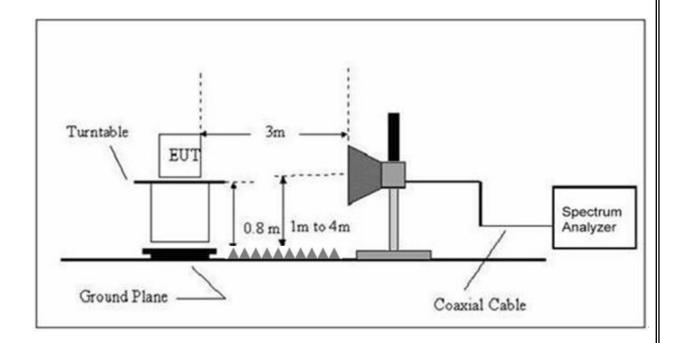
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

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

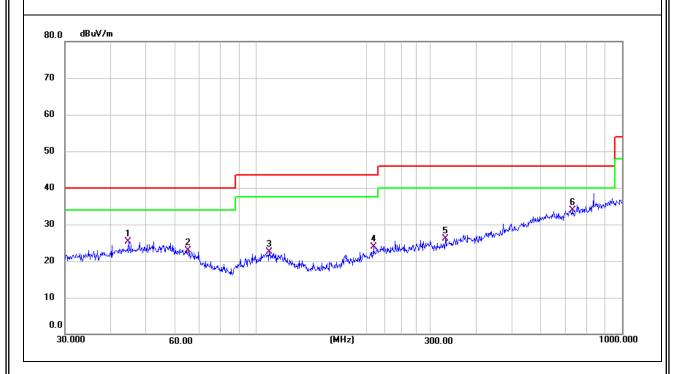
TEST RESULTS (30~1000 MHz)

EUT:	3G DESK PHONE	Model Name:	FIXO 800
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024-04-22
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	44.9004	5.90	19.42	25.32	40.00	-14.68	QP
Н	65.1144	4.56	18.25	22.81	40.00	-17.19	QP
Н	108.6470	4.74	17.75	22.49	43.50	-21.01	QP
Н	209.3130	5.78	18.07	23.85	43.50	-19.65	QP
Н	329.0390	5.63	20.55	26.18	46.00	-19.82	QP
Н	731.9202	6.05	27.91	33.96	46.00	-12.04	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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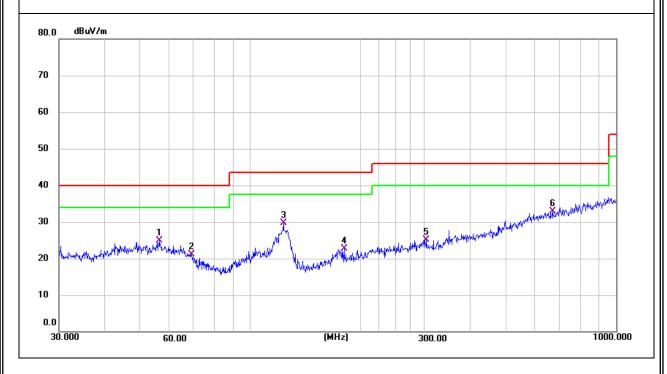


EUT:	3G DESK PHONE	Model Name :	FIXO 800
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024-04-22
Test Mode:	Mode 1	Polarization:	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	56.5929	5.38	19.43	24.81	40.00	-15.19	QP
V	69.1141	4.32	16.87	21.19	40.00	-18.81	QP
V	123.2655	13.76	15.90	29.66	43.50	-13.84	QP
V	180.6488	6.70	16.03	22.73	43.50	-20.77	QP
V	303.5437	4.90	20.18	25.08	46.00	-20.92	QP
V	670.4893	5.86	26.98	32.84	46.00	-13.16	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	3G DESK PHONE	Model Name :	FIXO 800
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024-04-23
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)	remark
V	7188.000	48.55	-8.45	40.10	74.00	-33.90	peak
V	8276.000	48.87	-7.39	41.48	74.00	-32.52	peak
V	9415.000	47.02	-5.40	41.62	74.00	-32.38	peak
V	11268.000	45.10	-2.91	42.19	74.00	-31.81	peak
V	13886.000	44.69	-1.25	43.44	74.00	-30.56	peak
V	14838.000	42.46	-1.09	41.37	74.00	-32.63	peak
Н	6695.000	51.11	-9.53	41.58	74.00	-32.42	peak
Н	7375.000	50.11	-8.45	41.66	74.00	-32.34	peak
Н	9993.000	47.69	-5.00	42.69	74.00	-31.31	peak
Н	11234.000	45.70	-2.92	42.78	74.00	-31.22	peak
Н	13597.000	44.29	-1.07	43.22	74.00	-30.78	peak
Н	14685.000	42.91	-1.00	41.91	74.00	-32.09	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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