

FCC Test Report FCC ID: 0556522923

Product:4G Smart PhoneTrade Mark:LOGIC, iSWAG, UNONUModel Number:L66 PROFamily Model:FOX, 6605Report No.:S23080403201007Issue Date:Aug 30, 2023

Prepared for

SWAGTEK

10205 NW 19th Street STE101 Miami, FL 33172, United States

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



TEST RESULT CERTIFICATION

Applicant's name:	SWAGTEK
Address:	10205 NW 19th Street STE101 Miami, FL 33172, United States
Manufacturer's Name:	SWAGTEK
Address:	10205 NW 19th Street STE101 Miami, FL 33172, United States
Product description	
Product name:	4G Smart Phone
Trade Mark	LOGIC, ISWAG, UNONU
Model and/or type reference :	L66 PRO
Family Model:	FOX, 6605
Test Sample Number:	S230804032001
Standards	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.

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Date of Test	
Date (s) of performance of tests:	Aug 04, 2023 ~Aug 30, 2023
Date of Issue:	Aug 30, 2023
Test Result	Pass

Testing Engineer

(Mukzi Lee)

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 ANSI C63.4: 2014	Conducted Emission	Class B	PASS			
	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.



1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., LtdAdd. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,
Shenzhen 518126 P.R. China.IC-RegistrationThe 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 $y \pm U$, 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 %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	±2.80dB	

B. Radiated Measurement :

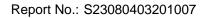
Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	4G Smart Phone			
Trade Mark	LOGIC, iSWAG, UNON	U		
Model Name	L66 PRO			
Family Model	FOX, 6605			
Model Difference	All the model are the sa names.	All the model are the same circuit and RF module, except the model		
	Connecting I/O port:	Micro USB, Earphone		
Product	Operation Frequency:	5GHz		
Description	Based on the application, features, or specification exhibited in User' Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Adapter	Model: CMAX2U Input: AC100-240V, 50-60Hz 0.2A Output: DC 5.0V2000mA			
Battery	DC 3.87V, 5000mAh, 19.35Wh			
Power supply	DC 3.87V from battery or DC 5V from Adapter.			
Hardware version	E93A_C41_30M15			
Software version	LOGIC_L66_PRO_GEN	JERIC_V1.0		



NTEK JL 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.

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

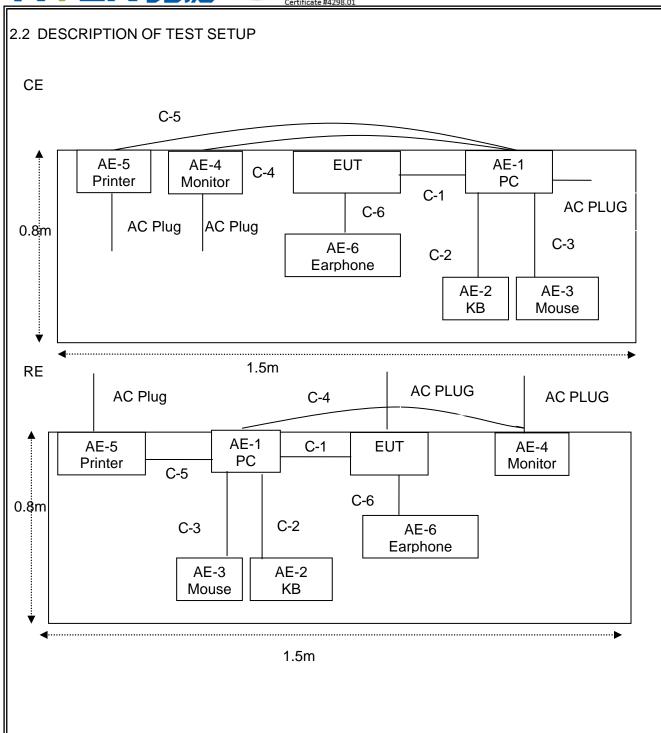
For Conducted Test			
Final Test Mode	Description		
Model 1	USB Data Transmission		
Model 2	TF card Playing		
Model 3	REC		
Model 4	FM		

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

Note: Final Test Mode: Through Pre-scan, find the model 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	1.5m	

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".

NTEK 北测 Certificate #4298.0 2.4 MEASUREMENT INSTRUMENTS LIST

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Radiation Test equipment							
Item		Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Aglient	E4440A	MY4100013 0	2023.03.27	2024.03.26	1 year
2	Test Receiver	R&S	ESPI	101318	2023.03.27	2024.03.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	ADVANTEST		150900201	2023.03.27	2024.03.26	1 year
6	Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
7	Horn Ant	Schwarzbeck	1	9170-181	2022.11.07	2023.11.06	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B		2023.05.29	2024.05.28	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2023.05.29	2024.05.28	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2023.05.29	2024.05.28	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2022.06.17	2025.06.16	3 year
15	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
<u>.</u>							
Item	Conduction Test Kind of Equipment	Manufactu	Type No.	Serial No.	Last calibration	Calibrated until	Calibration n period
1	Test Receive		ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129		2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	CORP	MP59B	620098370 4	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MHz	z) N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz	z) N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable	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.



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.

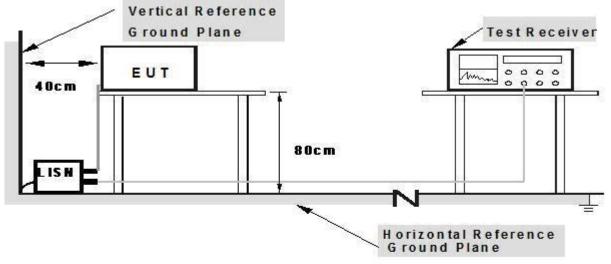
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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.



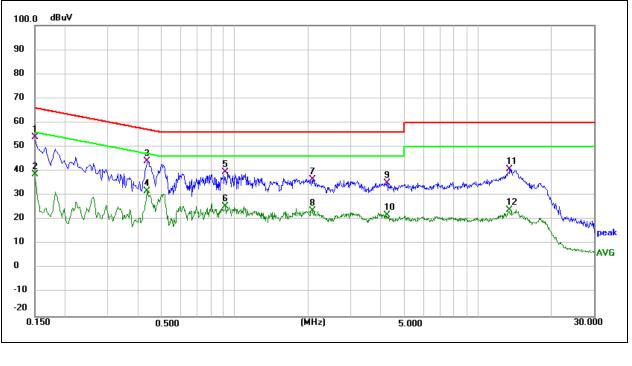
3.1.5 TEST RESULTS

FUT	EUT: 4G Smart Phone			del Name. :	L66 PRO	
Temperature: 24.5 °C				ative Humidity:	52%	
Pressure:	1010hPa			t Date:	2023-08-08	
Test Mode:	Mode 1			ase :	1	
		n PC AC 120V		156.	L	
Test Voltage:		TPCAC 1200	/0002			
Frequency	Reading Level	Correct Factor	Measure-me t	n Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remain
0.1500	43.91	9.93	53.84	66.00	-12.16	QP
0.1500	28.85	9.93	38.78	56.00	-17.22	AVG
0.4340	33.56	10.51	44.07	57.18	-13.11	QP
0.4340	21.39	10.51	31.90	47.18	-15.28	AVG
0.9140	28.09	11.48	39.57	56.00	-16.43	QP
0.9140	13.86	11.48	25.34	46.00	-20.66	AVG
2.0900	27.03	9.66	36.69	56.00	-19.31	QP
2.0900	13.88	9.66	23.54	46.00	-22.46	AVG
4.2420	25.46	9.67	35.13	56.00	-20.87	QP
4.2420	12.09	9.67	21.76	46.00	-24.24	AVG
13.5500	31.06	9.70	40.76	60.00	-19.24	QP
13.5500	14.14	9.70	23.84	50.00	-26.16	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



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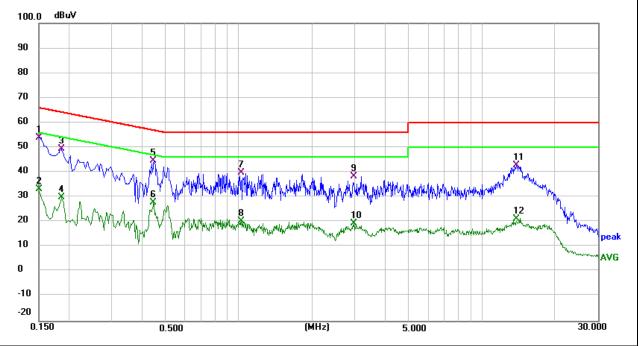
	Certificate #4298	.01	
EUT:	4G Smart Phone	Model Name. :	L66 PRO
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023-08-08
Test Mode:	Mode 1	Phase :	Ν
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	44.08	9.93	54.01	66.00	-11.99	QP
0.1500	23.26	9.93	33.19	56.00	-22.81	AVG
0.1860	39.39	10.01	49.40	64.21	-14.81	QP
0.1860	19.83	10.01	29.84	54.21	-24.37	AVG
0.4460	34.19	10.55	44.74	56.95	-12.21	QP
0.4460	17.36	10.55	27.91	46.95	-19.04	AVG
1.0260	27.98	11.72	39.70	56.00	-16.30	QP
1.0260	8.72	11.72	20.44	46.00	-25.56	AVG
2.9700	28.76	9.67	38.43	56.00	-17.57	QP
2.9700	9.74	9.67	19.41	46.00	-26.59	AVG
13.8740	33.11	9.70	42.81	60.00	-17.19	QP
13.8740	11.70	9.70	21.40	50.00	-28.60	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





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

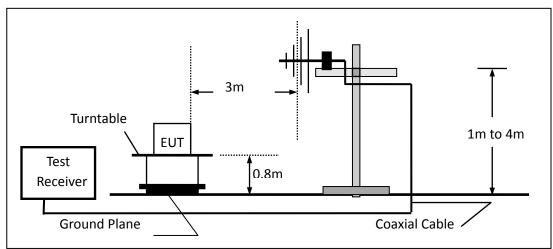


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

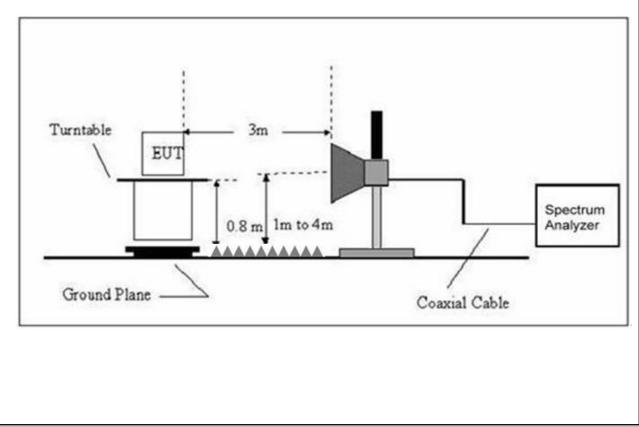
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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





3.2.4 TEST RESULTS

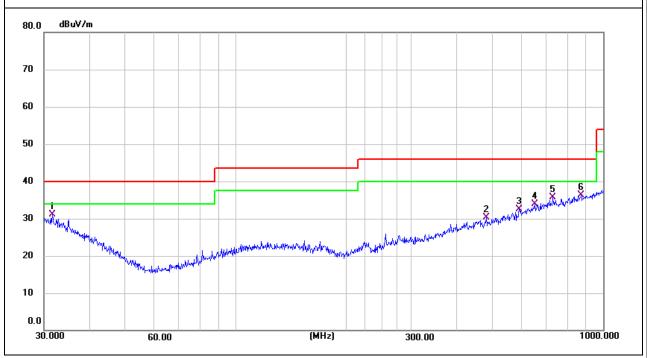
TEST RESULTS (30~1000 MHz)

EUT:	4G Smart Phone	Model Name:	L66 PRO
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-08-08
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)	
Н	31.6201	5.60	25.57	31.17	40.00	-8.83	QP
Н	480.5276	5.58	24.65	30.23	46.00	-15.77	QP
Н	590.9737	6.22	26.32	32.54	46.00	-13.46	QP
Н	651.9416	6.73	27.22	33.95	46.00	-12.05	QP
Н	729.3582	7.16	28.46	35.62	46.00	-10.38	QP
Н	872.1832	5.76	30.47	36.23	46.00	-9.77	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



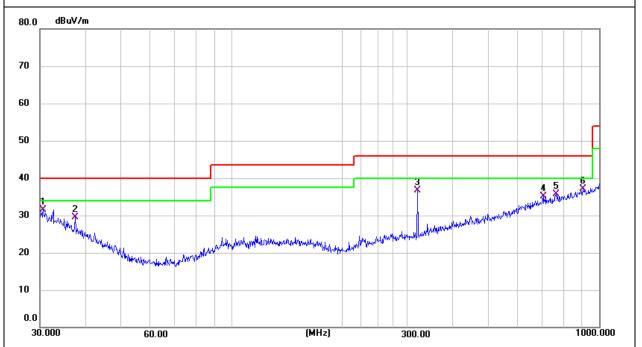


EUT:	4G Smart Phone	Model Name :	L66 PRO
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-08-08
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	The mark
V	30.6379	5.44	26.11	31.55	40.00	-8.45	QP
V	37.4164	7.19	22.41	29.60	40.00	-10.40	QP
V	319.9370	16.12	20.52	36.64	46.00	-9.36	QP
V	704.2261	7.13	28.01	35.14	46.00	-10.86	QP
V	763.3757	6.66	29.03	35.69	46.00	-10.31	QP
V	903.3094	6.26	30.82	37.08	46.00	-8.92	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~18000MHz)

			1					
EUT:	4G Smart Phone	Model Name :	L66 PRO					
Temperature:	24.5 ℃	Relative Humidity:	55%					
Pressure:	1010 hPa	Test Date :	2023-08-09					
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	11370.000	29.45	23.38	52.83	74.00	-21.17	peak	
V	11370.000	16.90	23.38	40.28	54.00	-13.72	AVG	
V	13886.000	29.01	25.63	54.64	74.00	-19.36	peak	
V	13886.000	16.71	25.63	42.34	54.00	-11.66	AVG	
V	17915.000	31.71	25.50	57.21	74.00	-16.79	peak	
V	17915.000	17.62	25.50	43.12	54.00	-10.88	AVG	
Н	11132.000	30.34	23.00	53.34	74.00	-20.66	peak	
Н	11132.000	18.24	23.00	41.24	54.00	-12.76	AVG	
Н	14396.000	29.93	25.17	55.10	74.00	-18.90	peak	
Н	14396.000	17.46	25.17	42.63	54.00	-11.37	AVG	
Н	17949.000	31.81	25.61	57.42	74.00	-16.58	peak	
Н	17949.000	17.67	25.61	43.28	54.00	-10.72	AVG	

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