FCC Part 15B TEST REPORT

Report No: STS1704060F01

Issued for

Prophet LLC

11345 VENTURA BLVD, STUDIO CITY, CA 91604, USA

Product Name:	Rokit Jupiter	
Brand Name:	Rokit	
Model Name:	104	
Series Model:	N/A	
FCC ID:	2ALTHI04	
Test Standard:	FCC Part 15B	

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TEST RESULT CERTIFICATION

Applicant's name:	Prophet LLC		
Address:	11345 VENTURA BLVD, STUDIO CITY, CA 91604, USA		
Manufacture's Name:	Shenzhen Fengteng Weiye Technology Co., Ltd.		
Address:	2nd Floor, Building A1, Silicon Valley Power Qinghu Park, Longhua District, Shenzhen, China		
Product description			
Product name:	Rokit Jupiter		
Brand name:	104		
Model and/or type reference:	N/A		
Standards:	FCC Part 15B		
Test procedure	. ANSI C63.4-2014		
under test (EUT) is in complian sample identified in the report. This report shall not be reprodu	as been tested by BZT, and the test results show that the equipment ce with the FCC requirements. And it is applicable only to the tested ced except in full, without the written approval of BZT, this document T, personal only, and shall be noted in the revision of the document.		
Date of Test	•		
Date of performance of teBZT	. 12 April. 2017 ~27 April. 2017		
Date of Issue	. 28 April. 2017		
Test Result	. Pass		
Testing Engi	neer: Barry Li		
	(Barry Li)		
Technical Ma	anager:		
	(Chopin Xiao)		
Authorized S	signatory:		

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	28 April. 2017	STS1704060F01	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION				
Standard	Item	Result	Remarks	
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit	
(10-1-05 Edition)	Radiated Emission	PASS	Meet Class B limit	

NOTE:

(1) " N/A" denotes test is not applicable in this Test Report

1.1 TEST FACTORY

BZT Testing Technology Co., Ltd

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong, Baoan District,

Shenzhen, Guangdong, China

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 \cdot providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Rokit Jupiter
Trade Name	Rokit
Model Name	104
Series Model	N/A
Model Difference	N/A
MCU Operating frequency	2480MHz
Adapter	Input: AC100-240V, 200mA, 50/60Hz Output: DC5V,1500mA
Battery	Rated Voltage: 3.8V capacity :3220mAh
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the User's Manual

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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	USB port communication with PC
Mode 2	Camera Mode
Mode 3	GSM Mode
Mode 4	WCDMA Mode
Mode 5	Video Mode
Mode 6	Audio Mode
Mode 7	Play Music Mode
Mode 8	WIFI Mode
Mode 9	BT Mode
Mode 10	Charge Mode
Mode 11	LTE Mode

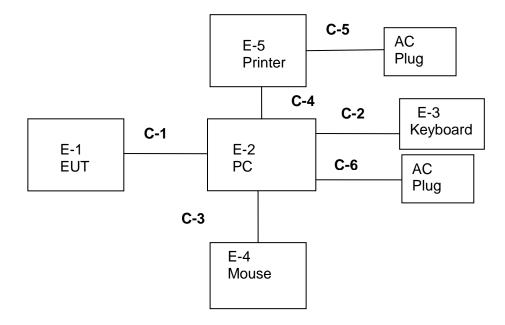
For Conducted Test			
Final Test Mode Description			
Mode 1	USB port communication with PC		

For Radiated Test			
Final Test Mode Description			
Mode 1 USB port communication with PC			

NOTE:

- 1. Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse modeis reported by this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 DESCRIPTION OF SUPPORT UNITS

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	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Rokit Jupiter	N/A	104	N/A	EUT
E-2	PC	4CV428DQXR	500-320cx	4CV428DQYN	N/A
E-3	Keyboard	HP	PR1101U	DKUSB1B06Q42209FBK800	N/A
E-4	Mouse	MOTOSPEED	F66	697738-001	N/A
E-5	Printer	HP	HP1020	CNBB102765	N/A
C-6	AC (PC Adapter)	LITEON	PA-1650-86	3X06399004	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable (FTP)	NO	90cm	N/A
C-2	USB Cable (FTP)	NO	100cm	N/A
C-3	USB Cable (FTP)	NO	100cm	N/A
C-4	USB Cable (FTP)	NO	110cm	N/A
C-5	AC (Printer Cable) (FTP)	NO	100cm	N/A
C-6	AC (PC Cable) (FTP)	NO	120cm	N/A

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 FLength a column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.03
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.05	2018.03.04
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Temperature & Humitidy	Mieo	HH660	N/A	2016.10.23	2017.10.22
Unversal radio communication tester	R&S	CMU200	111764	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBE CK	AK9515H	SN-96286/9628 7	NCR	NCR
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR
Shielding Room	Changling	854	N/A	2016.10.23	2017.10.22

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Class A		Class B		
	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

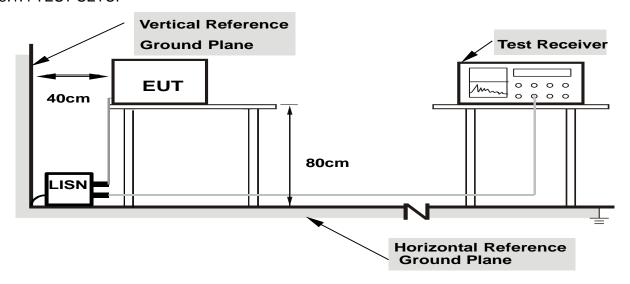
The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance

- a. 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.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back b. and forth in the center forming a bundle 30 to 40 cm long.
 - I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the
- c. 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 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

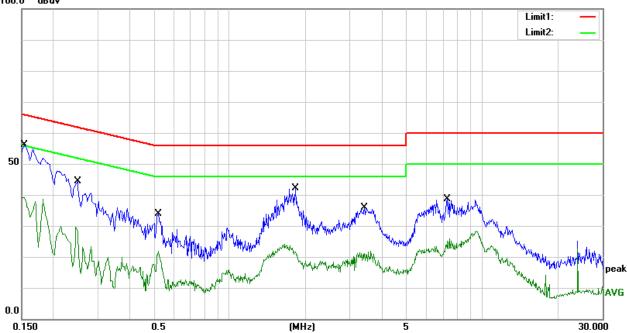
3.1.6 TEST RESULTS

Temperature:	23.1 °C	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	46.99	9.23	56.22	65.78	-9.56	QP
2	0.1540	29.86	9.23	39.09	55.78	-16.69	AVG
3	0.2500	35.09	9.18	44.27	61.76	-17.49	QP
4	0.2500	16.84	9.18	26.02	51.76	-25.74	AVG
5	0.5220	24.81	9.15	33.96	56.00	-22.04	QP
6	0.5220	12.75	9.15	21.90	46.00	-24.10	AVG
7	1.8260	32.98	9.25	42.23	56.00	-13.77	QP
8	1.8260	12.44	9.25	21.69	46.00	-24.31	AVG
9	3.4220	26.69	9.26	35.95	56.00	-20.05	QP
10	3.4220	11.89	9.26	21.15	46.00	-24.85	AVG
11	7.3020	29.37	9.29	38.66	60.00	-21.34	QP
12	7.3020	15.79	9.29	25.08	50.00	-24.92	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)—Limit 100.0 dBuV

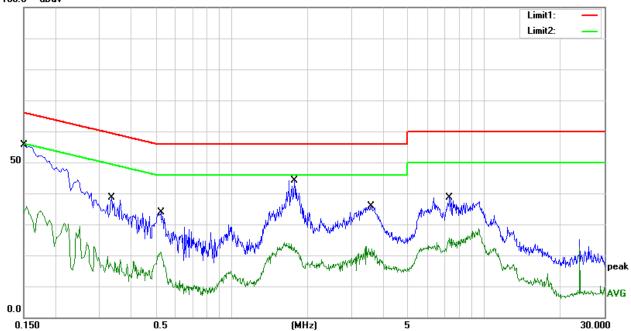


Temperature:	23.1°C	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	46.40	9.23	55.63	66.00	-10.37	QP
2	0.1500	24.41	9.23	33.64	56.00	-22.36	AVG
3	0.3340	29.41	9.16	38.57	59.35	-20.78	QP
4	0.3340	7.13	9.16	16.29	49.35	-33.06	AVG
5	0.5260	24.72	9.15	33.87	56.00	-22.13	QP
6	0.5260	11.54	9.15	20.69	46.00	-25.31	AVG
7	1.7780	34.78	9.25	44.03	56.00	-11.97	QP
8	1.7780	13.30	9.25	22.55	46.00	-23.45	AVG
9	3.5660	26.52	9.26	35.78	56.00	-20.22	QP
10	3.5660	10.38	9.26	19.64	46.00	-26.36	AVG
11	7.3020	29.37	9.29	38.66	60.00	-21.34	QP
12	7.3020	16.31	9.29	25.60	50.00	-24.40	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Margin = Result (Result = Reading + Factor) Limit 100.0 dBuV



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
FREQUENCT (IVII 12)	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device	Range (MHz)
or on which the device operates or tunes	ixarige (ivii iz)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	5th harmonic (Peak/AV)		
DD ///D /aminaion in reativisted bond)	30MHz to 1000MHz: 100 KHz / 300 KHz		
RB / VB (emission in restricted band)	Above 1000MHz: 1 MHz / 3 MHz		

Receiver Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz		
	Above 1000MHz: 1 MHz / 3 MHz		

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- the height of the antenna shall vary between 1m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector d. mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the e. 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.

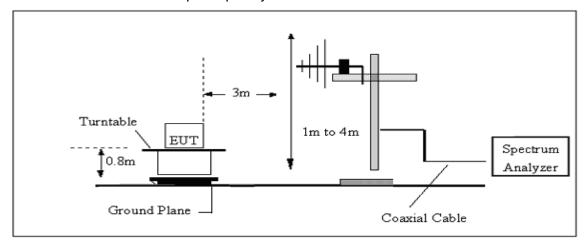
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

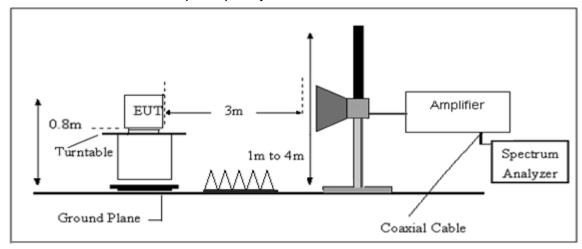
No deviation

3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS

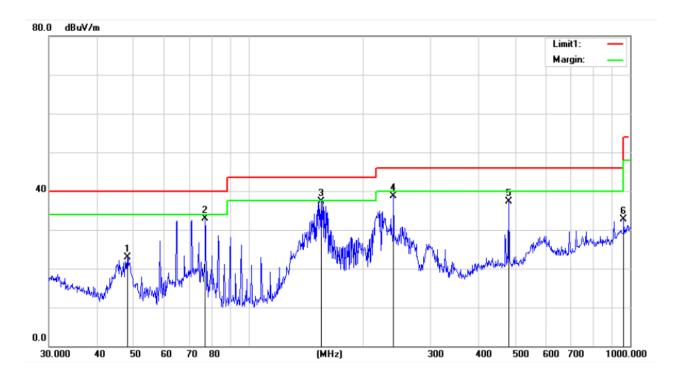
30MHz -1000MHz

Temperature:	26 °C	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.1626	43.34	-20.53	22.81	40	-17.19	QP
2	77.0505	55.93	-23.1	32.83	40	-7.17	QP
3	154.8204	55.52	-18.22	37.3	43.5	-6.2	QP
4	239.9873	56.49	-17.76	38.73	46	-7.27	QP
5	480.5276	46.78	-9.38	37.4	46	-8.6	QP
6	962.1623	32.82	-0.12	32.7	54	-21.3	QP

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit

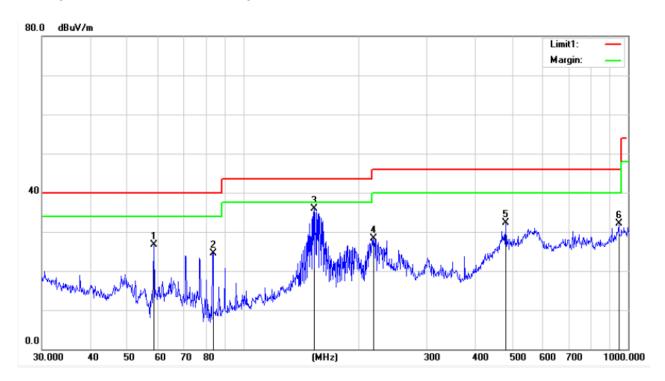


Temperature:	26 °C	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	58.6126	50.73	-23.94	26.79	40	-13.21	QP
2	83.5222	46.41	-21.81	24.6	40	-15.4	QP
3	153.2004	53.97	-18.14	35.83	43.5	-7.67	QP
4	218.3085	47.43	-19.22	28.21	46	-17.79	QP
5	480.5276	41.64	-9.38	32.26	46	-13.74	QP
6	945.44	32.65	-0.54	32.11	46	-13.89	QP

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit



(1 GHz to 25GHz.)

Temperature:	26 °C	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Vertical/Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

Freq. (MHz)	Reading (dBuV)	Corr.Factor (dB)	Measured (dBuV/m)	Limits (dBuV/m)	Margins (dBuV/m)	Ant. H/V	Mark
2056.72	78.40	-10.98	67.42	74.00	-6.58	V	PK
2056.72	57.36	-10.98	46.38	54.00	-7.62	V	AVG
2985.70	69.56	-10.54	59.02	74.00	-14.98	V	PK
2985.70	56.05	-10.54	45.51	54.00	-8.49	V	AVG
2056.72	71.20	-11.52	59.68	74.00	-14.32	Н	PK
2056.72	59.03	-11.52	47.51	54.00	-6.49	Н	AVG
2985.70	69.98	-10.08	59.90	74.00	-14.10	Н	PK
2985.70	57.21	-10.08	47.13	54.00	-6.87	Н	AVG

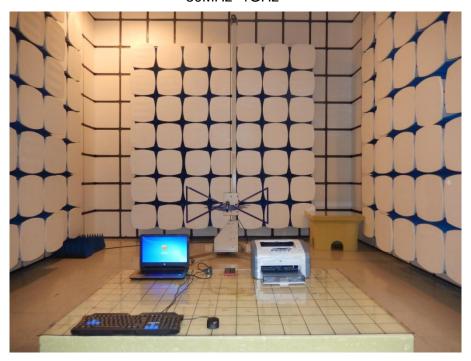
Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 3. The frequency that above 3GHz is mainly from the environment noise.

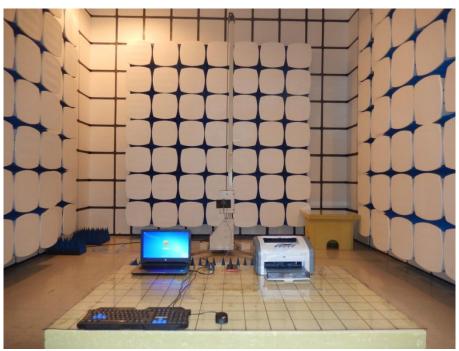
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz- 1GHz



Above 1GHz



Conducted Measurement Photos





* * * * * END OF THE REPORT * * * * *