

FCC Part 15B TEST REPORT

Report No: 1708209E01

Issued for

JALA GROUP

EDIFICIO JALA AV. MELCHOR PEREZ DE HOLGUIN N 2643
COCHABAMBA BOLIVIA (LATIN AMERICA)

Product Name:	Smartphone
Brand Name:	Jala
Test Model Name:	ACCIONE
Series Model:	N/A
FCC ID:	2ANHQACCIONE
Test Standard:	FCC Part 15B

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TEST RESULT CERTIFICATION**Applicant's name**..... : JALA GROUPAddress..... : EDIFICIO JALA AV. MELCHOR PEREZ DE HOLGUIN N 2643
COCHABAMBA BOLIVIA (LATIN AMERICA)**Manufacture's Name**..... : Shenzhen Kingsun Technology Co., Ltd.Address..... : 5th Floor, Block B1, Wisdom Plaza, No. 4068, Qiaoxiang Road,
Nanshan District, Shenzhen, China**Product description**

Product name..... : Smartphone

Brand name..... : Jala

Test Model Name ACCIONE

Series Model : N/A

Standards..... : FCC Part 15B

Test procedure..... ANSI C63.4-2014

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

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Date of Test.....

Date of performance of tests 28 June 2017~08 July. 2017

Date of Issue 09 July. 2017

Test Result **Pass**

Testing Engineer : _____



(Kyle Rao)

Technical Manager : _____



(Chopin Xiao)

Authorized Signatory : _____



(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	09 July. 2017	1708209E01	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 (10-1-05 Edition)	Conducted Emission	PASS	Meet Class B limit
	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 $y \pm U$, 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 %.

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	$\pm 2.88\text{dB}$
2	Conducted Emission (150KHz-30MHz)	$\pm 2.67\text{dB}$
3	All emissions,radiated(<30M) (9KHz-30MHz)	$\pm 2.45\text{dB}$
4	All emissions,radiated(<1G) 30MHz-200MHz	$\pm 3.80\text{dB}$
5	All emissions,radiated(<1G) 200MHz-1000MHz	$\pm 3.97\text{dB}$
6	All emissions,radiated(>1G)	$\pm 3.03\text{dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone
Trade Name	Jala
Model Name	ACCIONE
Series Model	N/A
Model Difference	N/A
Adapter	Input: AC 100-240V, 500mA,50/60 Hz Output: DC 5V,2400mA,9V,2000mA,9V,1500mA
Battery	Rated Voltage: 3.8V Capacity: 2500mAh Charge Limit: 4.35V
Hardware version number	PVT2.0
Software version number	J.A.00.01

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 generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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

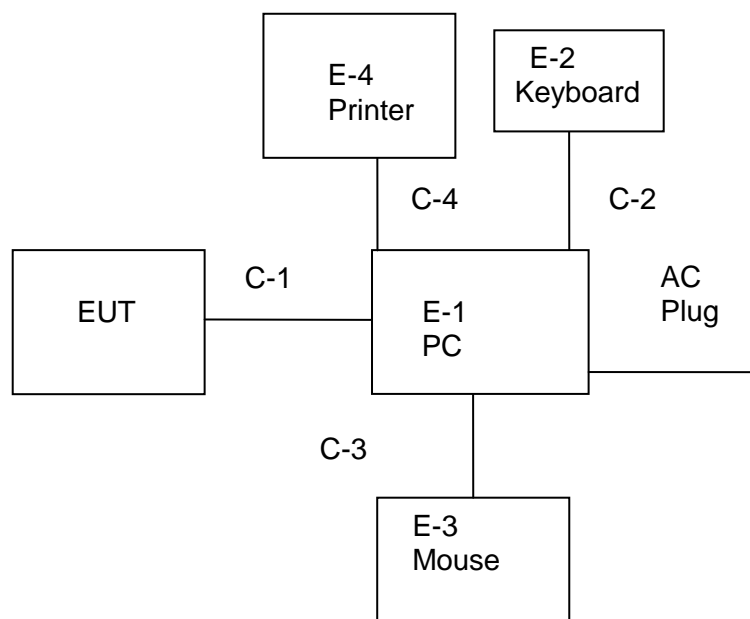
For Conducted Test	
Final Test Mode	Description
Mode 1	USB port communication with PC

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

NOTE:

1. The test modes were carried out for all operation modes. Only worst case will be shown in this report
2. We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz) for which the device is capable of operation.

2.3 BLOCK DIAGRAM 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.	Note
E-1	PC	HP	500-320cx	N/A
E-2	Keyboard	Acer	SK-9624	N/A
E-3	Mouse	HP	MODGUO	N/A
E-4	Printer	LENOVO	LJ2400L	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable (FTP)	NO	100cm	N/A
C-2	Shielded	NO	110cm	N/A
C-3	Shielded	NO	115cm	N/A
C-4	Shielded	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 『Length』 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
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2017.03.06	2018.03.05
Power Amplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.25	2017.10.24
Pre-mpifier(0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11
Spectrum Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
EMI Test Receiver	ESW	R&S	101535	2017.06.01	2018.05.31

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	2016.10.26	2017.10.25
LISN	EMCO	3810/2NM	000-23625	2016.10.26	2017.10.25
Absorbing clamp	R&S	MDS-21	100668	2016.10.23	2017.10.22

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Conducted Emission Limits (dBuV)			
	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

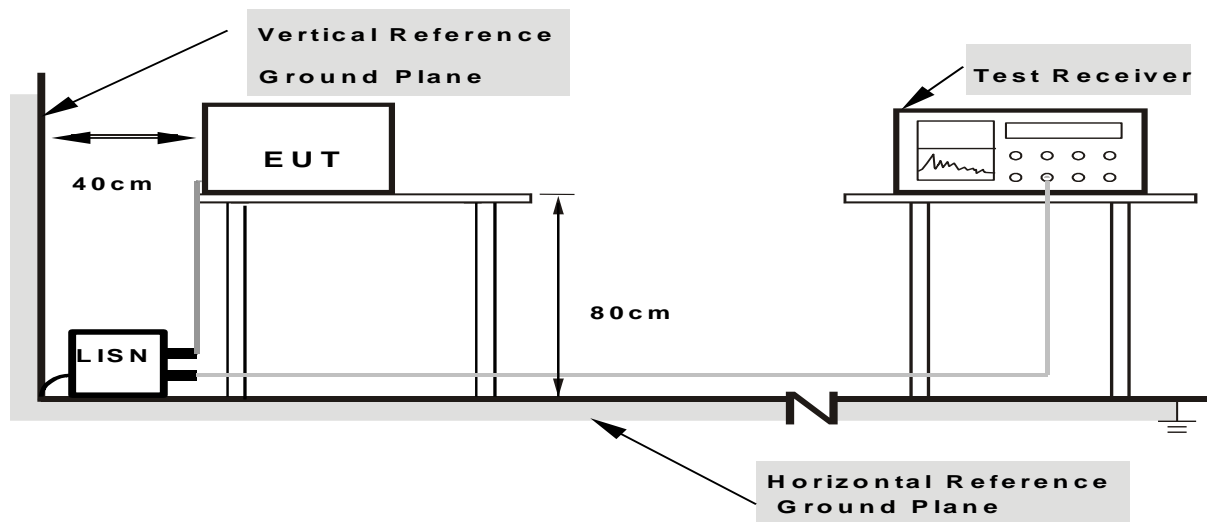
3.1.2 TEST PROCEDURE

- 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 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 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 cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
 - LISN at least 80 cm from nearest part of EUT chassis.
 - 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 cm 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.

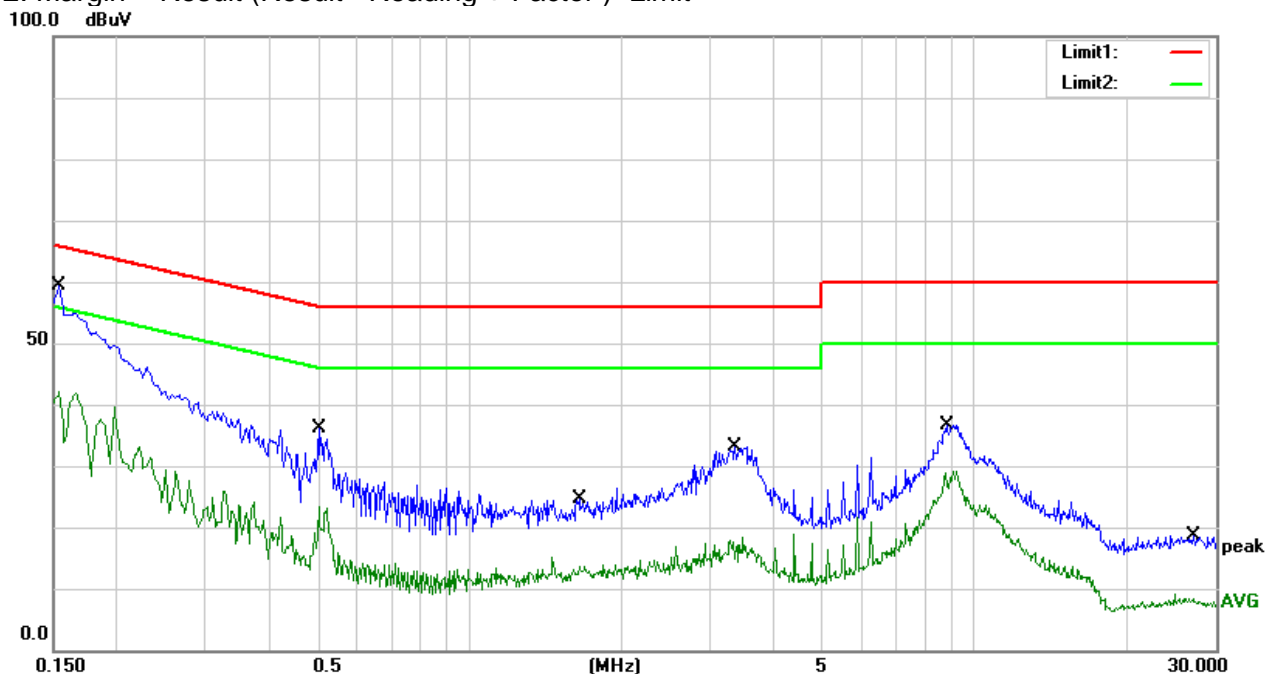
3.1.6 TEST RESULTS

Temperature:	25.4°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	49.61	9.79	59.40	65.78	-6.38	QP
2	0.1540	28.77	9.79	38.56	55.78	-17.22	AVG
3	0.5020	25.97	10.03	36.00	56.00	-20.00	QP
4	0.5020	10.31	10.03	20.34	46.00	-25.66	AVG
5	1.6460	14.78	9.79	24.57	56.00	-31.43	QP
6	1.6460	3.14	9.79	12.93	46.00	-33.07	AVG
7	3.3540	23.40	9.82	33.22	56.00	-22.78	QP
8	3.3540	5.11	9.82	14.93	46.00	-31.07	AVG
9	8.7940	26.58	10.08	36.66	60.00	-23.34	QP
10	8.7940	18.07	10.08	28.15	50.00	-21.85	AVG
11	27.0020	8.51	10.21	18.72	60.00	-41.28	QP
12	27.0020	-2.42	10.21	7.79	50.00	-42.21	AVG

Remark:

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

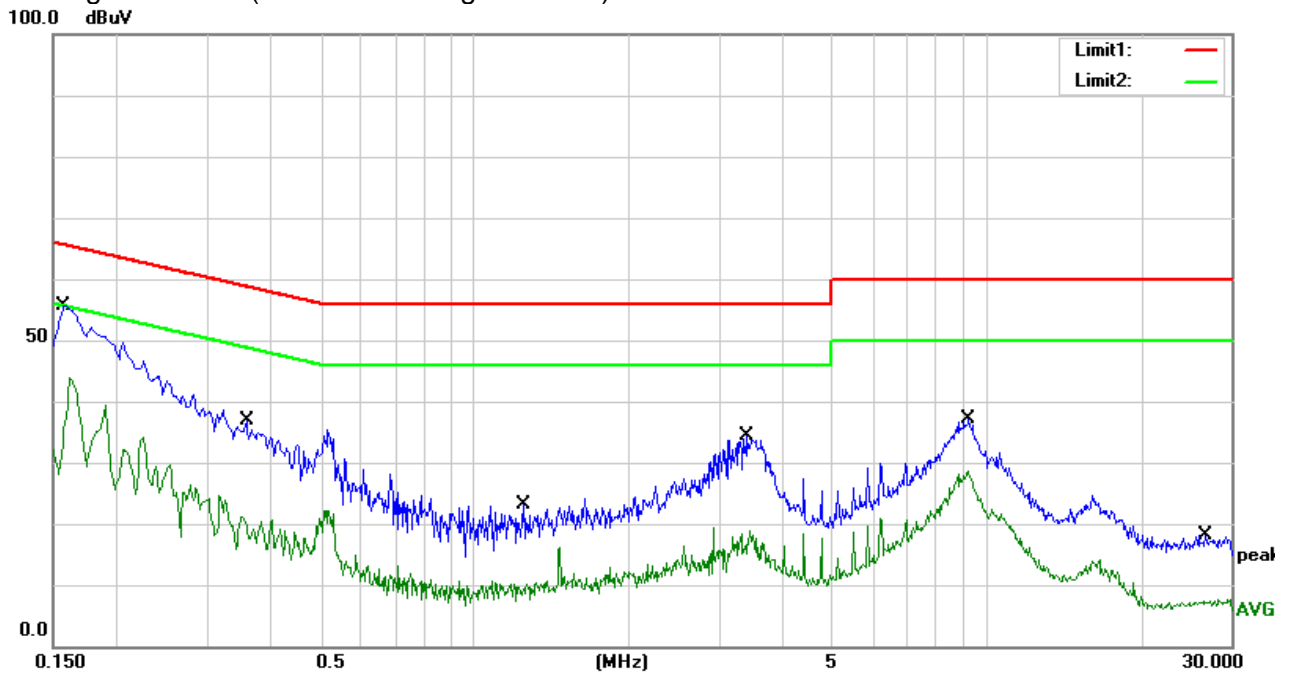


Temperature:	25.4°C	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	45.96	9.77	55.73	65.57	-9.84	QP
2	0.1580	26.24	9.77	36.01	55.57	-19.56	AVG
3	0.3580	26.84	10.14	36.98	58.77	-21.79	QP
4	0.3580	8.71	10.14	18.85	48.77	-29.92	AVG
5	1.2460	13.39	9.82	23.21	56.00	-32.79	QP
6	1.2460	-0.41	9.82	9.41	46.00	-36.59	AVG
7	3.4140	24.53	9.92	34.45	56.00	-21.55	QP
8	3.4140	6.74	9.92	16.66	46.00	-29.34	AVG
9	9.2180	27.23	9.92	37.15	60.00	-22.85	QP
10	9.2180	17.61	9.92	27.53	50.00	-22.47	AVG
11	26.7780	7.84	10.36	18.20	60.00	-41.80	QP
12	26.7780	-3.28	10.36	7.08	50.00	-42.92	AVG

Remark:

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



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)	
	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 or on which the device operates or tunes (MHz)	Range (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

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	5th harmonic (Peak/AV)
RB / VB (emission in restricted band)	30MHz to 1000MHz: 100 KHz / 300 KHz 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 anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- c. 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 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 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.

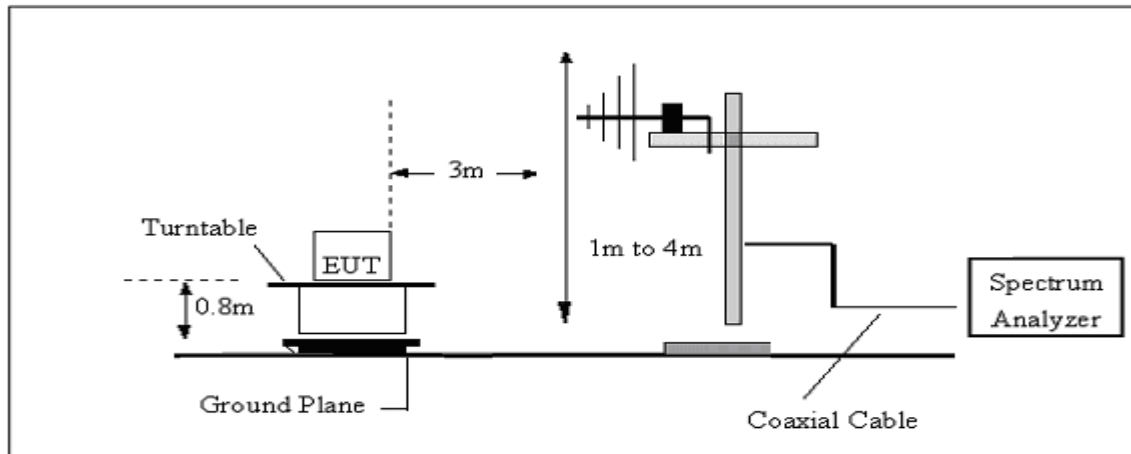
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

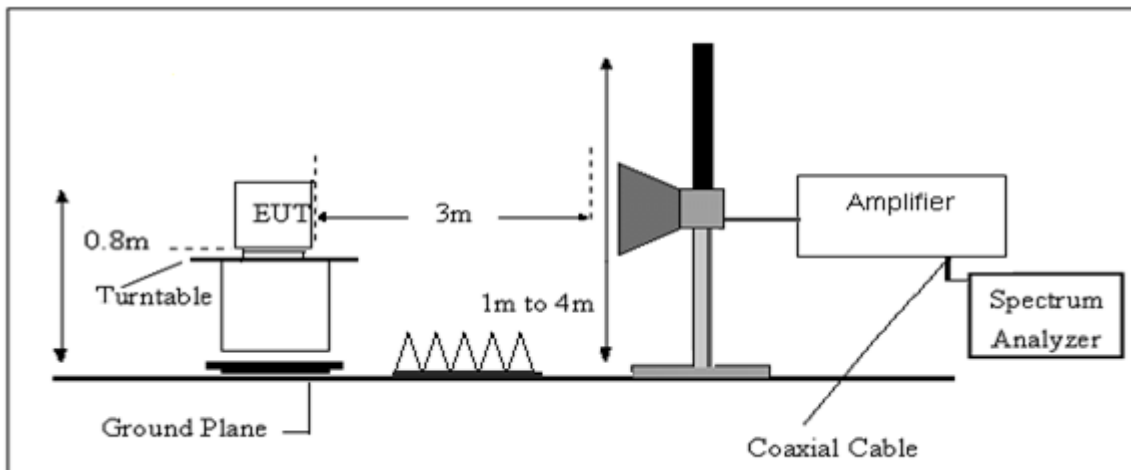
No deviation

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

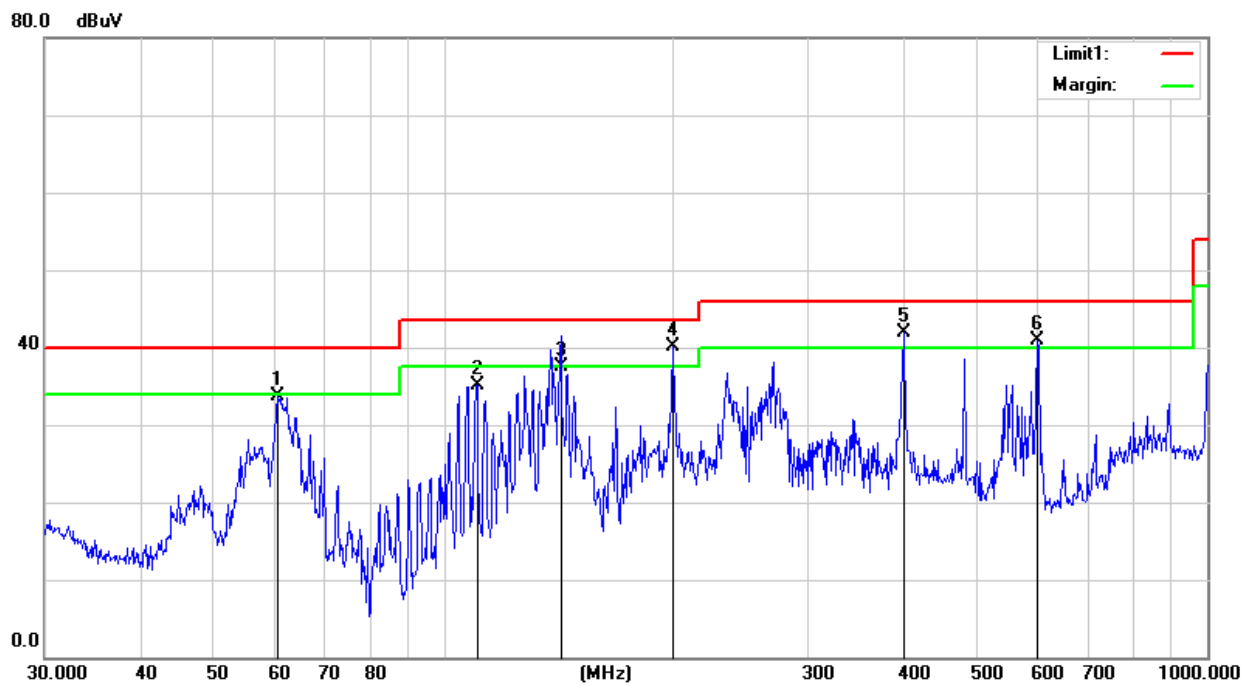
30MHz -1000MHz

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	60.4920	58.07	-24.33	33.74	40.00	-6.26	QP
2	110.5687	53.41	-18.31	35.10	43.50	-8.40	QP
3	142.1444	55.17	-17.61	37.56	43.50	-5.94	QP
4	199.2855	60.30	-20.17	40.13	43.50	-3.37	QP
5	400.4320	53.21	-11.22	41.99	46.00	-4.01	QP
6	599.3212	47.98	-7.14	40.84	46.00	-5.16	QP

Remark:

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

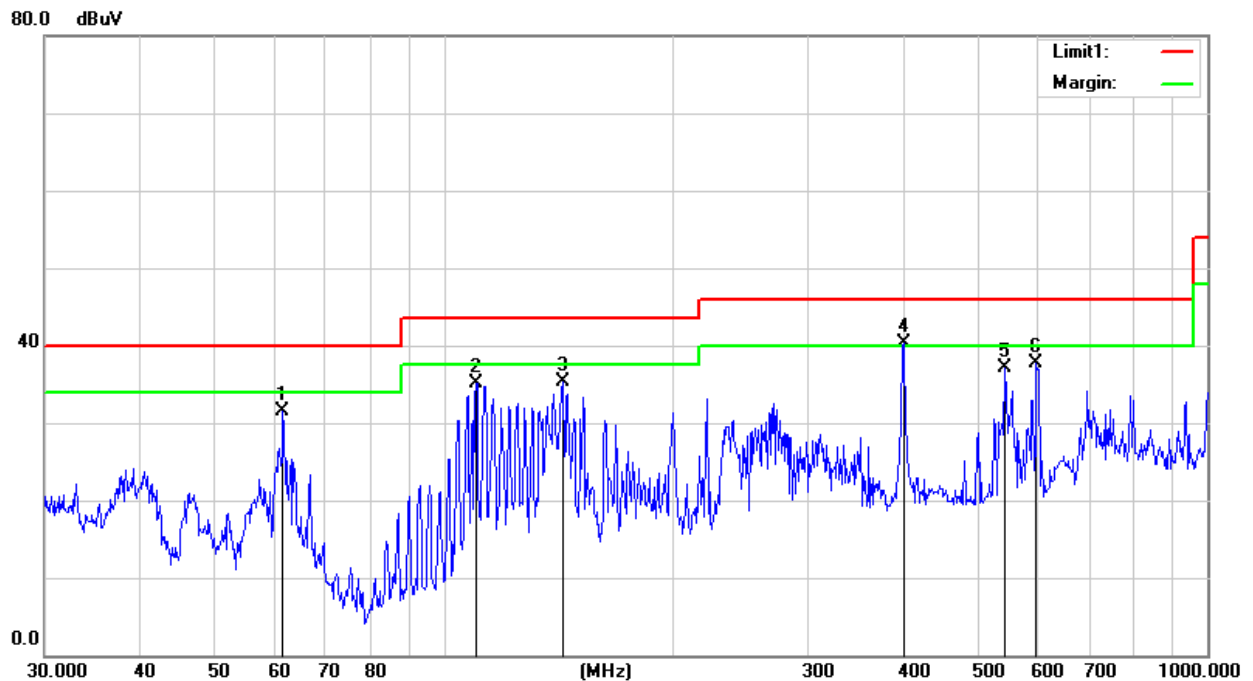


Temperature:	26 °C	Relative Humidity:	60%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	61.5617	55.83	-24.31	31.52	40.00	-8.48	QP
2	110.1816	53.52	-18.33	35.19	43.50	-8.31	QP
3	143.3260	53.00	-17.67	35.33	43.50	-8.17	QP
4	400.4318	51.50	-11.22	40.28	46.00	-5.72	QP
5	543.2741	44.05	-6.92	37.13	46.00	-8.87	QP
6	597.2233	44.71	-7.10	37.61	46.00	-8.39	QP

Remark:

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



(1 GHz to 25GHz.)

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical/Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

PK

Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna Factor	Orrected Factor	Actual Fs	Peak	Peak
(MHz)	H/V	Reading (dBuV)	(dB)	(dB)	(dB/m)	(dB)	Peak (dBuV/m)	Limit (dBuV/m)	margin (dB)
1403.35	H	66.78	45.1	4.0	25.1	-16.0	51.78	74.00	-22.22
3000.76	H	55.54	44.7	6.7	28.2	-9.8	46.74	74.00	-27.26
4002.47	H	64.34	44.2	7.9	29.7	-6.6	55.74	74.00	-18.26
5506.84	H	51.13	44.2	9.7	32.0	-2.5	49.63	74.00	-24.37
N/A									
1403.35	V	53.96	45.1	4.0	25.1	-16.0	37.96	74.00	-36.04
3000.76	V	54.15	44.7	6.7	28.2	-9.8	44.35	74.00	-29.65
4002.47	V	65.83	44.2	7.9	29.7	-6.6	57.23	74.00	-16.77
5506.84	V	59.67	44.2	9.7	32.0	-2.5	55.17	74.00	-18.83
N/A									

AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor		AV	AV
(MHz)	H/V	Reading (dBuV)	(dB)	(dB)	(dB/m)	(dB)	AV (dBuV/m)	Limit (dBuV/m)	margin (dB)
1403.35	H	46.61	45.1	4.0	25.1	-16.0	33.61	54.00	-20.39
3000.76	H	44.18	44.7	6.7	28.2	-9.8	36.38	54.00	-17.62
4002.47	H	50.03	44.2	7.9	29.7	-6.6	45.43	54.00	-8.57
5506.84	H	53.11	44.2	9.7	32.0	-2.5	47.61	54.00	-6.39
N/A									
1403.35	V	39.69	45.1	4.0	25.1	-16.0	21.69	54.00	-32.31
3000.76	V	41.59	44.7	6.7	28.2	-9.8	31.79	54.00	-22.21
4002.47	V	35.57	44.2	7.9	29.7	-6.6	26.97	54.00	-27.03
5506.84	V	30.26	44.2	9.7	32.0	-2.5	27.76	54.00	-26.24
N/A									

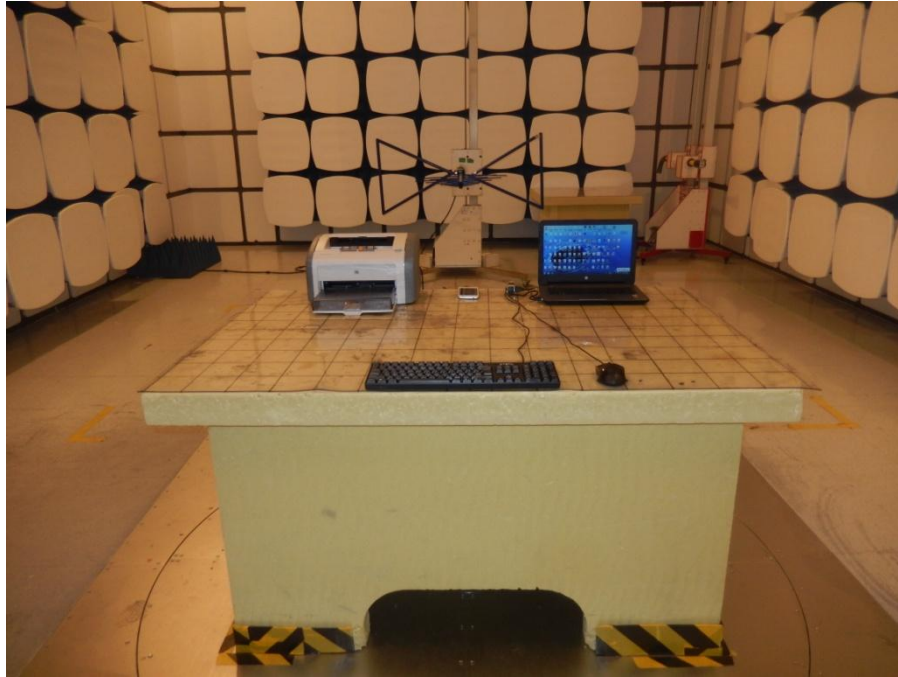
Notes:

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 5.5GHz is mainly from the environment noise.

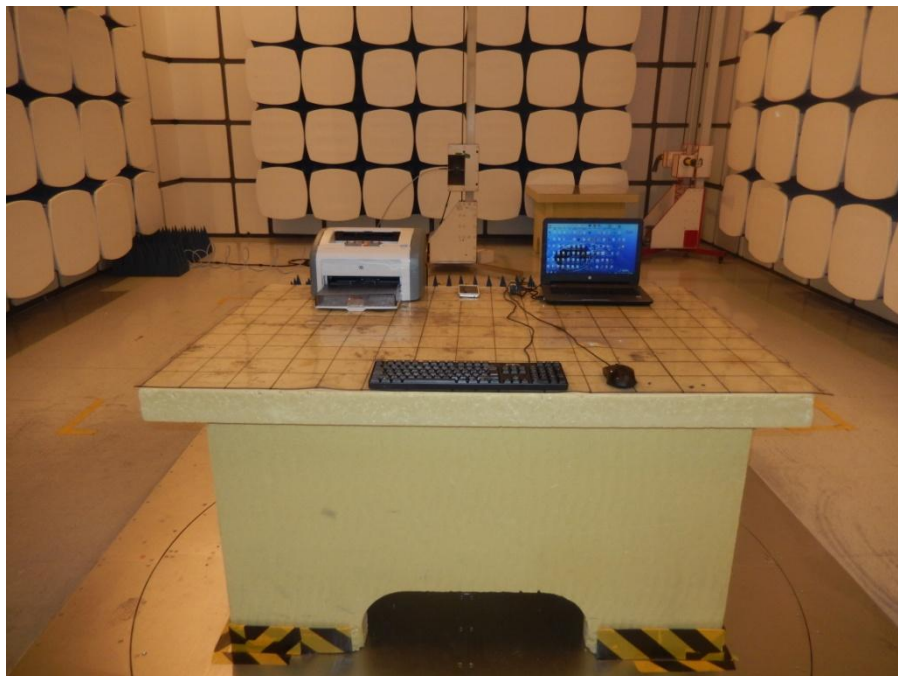
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz- 1GHz



Above 1GHz



Conducted Measurement Photos



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