



FCC PART 15B REPORT

Report No: STS1412042E01

Issued for

DaNo Mobile com LTD

Mail box 1010 Karmiel, isreal

Product Name:	Flip old man phone
Brand Name:	DaNo
Model No.:	l534
Series Model:	N/A
FCC ID:	2ADW D-1534
Test Standard:	FCC Part 15B

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TEST RESULT CERTIFICATION

Applicant's name DaNo Mobile com LTD

Address Mail box 1010 Karmiel, isreal

Manufacture's Name ZINI MOBILES LIMITED

2nd floor, Tower A, No, 111, Pinshun Rd, Guanlan, Longhua, Address Shenzhen, China

Product description

Product name Flip old man phone

Band name DaNo

Model and/or type reference I534

Standards FCC Part 15B

Test procedure...... ANSI C63.4-2009

This device described above has been tested by STS, 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..... 16 Dec. 2014 ~24 Dec. 2014

Date of Issue 25 Dec. 2014

Test Result......Pass

Testing Engineer

Technical Manager

Authorized Signatory:

(Bovey Yang)





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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 FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F A, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District,

Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

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 % \circ

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Flip old man phone		
Trade Name	DaNo		
Model Name	1534		
Serial Model	N/A		
Model Difference	N/A		
Channel List	Please refer to the Note 2.		
A dente.	Input:AC 100-240V,50/60Hz,0.4A		
Adapter	Output:DC 5V,1000mA		
	Rated Voltage: 3.7V		
Battery	Charge Limit: 4.2V		
	capacity :800mAh		
Hardware version number			
Software versioning number			
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

1. 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 Model
Mode 2	MP3/MP4 Mode
Mode 3	Idle Mode

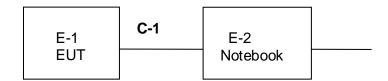
For Conducted Emission			
Final Test Mode Description			
Mode1	USB Model		

For Radiated Emission				
Final Test Mode Description				
Mode 1 USB Model				

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.

2.3 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.	Series No.	Note
E-1	Flip old man phone	DaNo	I534	N/A	EUT
E-2	Notebook	Lenovo	B460	WB03928113	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.5m	
C-2	NO	NO	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.
- "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



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
Universal Radio Communication Tester	R&S	CMU200	112012	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.25	2015.10.24
Test Cable	N/A	R-01	N/A	2014.10.25	2015.10.24
Test Cable	N/A	R-02	N/A	2014.10.25	2015.10.24
EMI Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Antenna Mast	EM	SC100_1	N/A	N/A	N/A
Turn Table	EM	SC100	060531	N/A	N/A
50Ω Switch	Anritsu Corp	MP59B	6200983705	2014.07.06	2015.07.05
Spectrum Analyzer	Aglient	E4407B	MY50140340	2014.10.25	2015.10.24
Horn Antenna	Schwarbeck	BBHA 9120D	9120D-963	2014.10.25	2015.10.24
Pre-Amplifier	DASY 5	NO. WL-42W	9638	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Absorbing clamp	R&S	MDS-21	100668	2014.10.27	2015.10.26
Temperature & Humitidy Chamber	Mieo	HH660	N/A	2014.10.27	2015.10.26
Conduction Cable	EM	C01	N/A	2014.10.25	2015.10.24
Clamp Cable	EM	C02	N/A	2014.10.25	2015.10.24



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

Class A		(dBuV)	Class B	(dBuV)	Ctondord
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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

3	
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



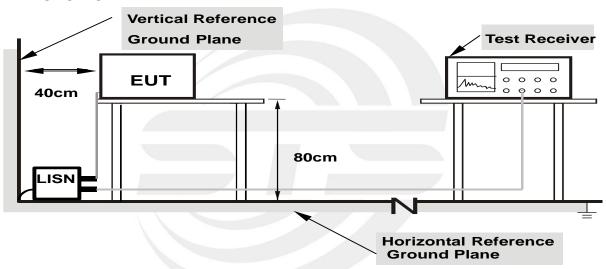
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 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 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

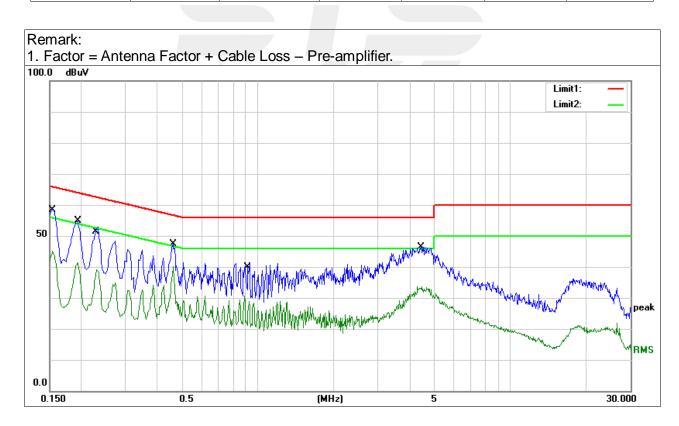
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.6 TEST RESULTS

EUT:	Flip old man phone	Model Name. :	1534
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter with AC 120V/60Hz	Test Mode:	1

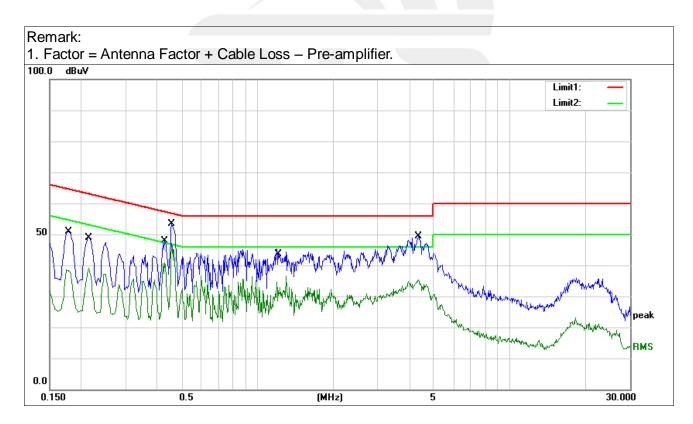
Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remaik
0.1493	24.26	11.93	36.19	66.04	-29.85	QP
0.1493	19.76	11.93	31.69	56.04	-24.35	AVG
0.1921	36.10	10.44	46.54	63.95	-17.41	QP
0.1921	22.84	10.44	33.28	53.95	-20.67	AVG
0.2260	36.54	10.44	46.98	62.60	-15.62	QP
0.2260	24.56	10.44	35.00	52.60	-17.60	AVG
0.4594	21.55	10.41	31.96	56.70	-24.74	QP
0.4594	12.09	10.41	22.50	46.70	-24.20	AVG
0.9164	27.01	10.41	37.42	56.00	-18.58	QP
0.9164	18.48	10.41	28.89	46.00	-17.11	AVG
4.4587	29.79	10.64	40.43	56.00	-15.57	QP
4.4587	20.70	10.64	31.34	46.00	-14.66	AVG





EUT:	Flip old man phone	Model Name. :	1534
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage:	DC 5V from Adapter with AC 120V/60Hz	Test Mode:	1

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remaik
0.1760	39.74	10.37	50.11	64.67	-14.56	QP
0.1760	28.62	10.37	38.99	54.67	-15.68	AVG
0.2101	37.10	10.43	47.53	63.20	-15.67	QP
0.2101	27.92	10.43	38.35	53.20	-14.85	AVG
0.4332	29.62	10.41	40.03	57.19	-17.16	QP
0.4332	19.21	10.41	29.62	47.19	-17.57	AVG
0.4568	38.88	10.41	49.29	56.75	-7.46	QP
0.4568	30.73	10.41	41.14	46.75	-5.61	AVG
1.2094	30.95	10.45	41.40	56.00	-14.60	QP
1.2094	20.44	10.45	30.89	46.00	-15.11	AVG
4.3778	32.29	10.66	42.95	56.00	-13.05	QP
4.3778	23.05	10.66	33.71	46.00	-12.29	AVG





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (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	5 th 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	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted	1 MHz / 1 MHz, AV=1 MHz / 10Hz
band)	I IVIDZ / I IVIDZ, AV = I IVIDZ / IVDZ

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 1 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 1 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. 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.

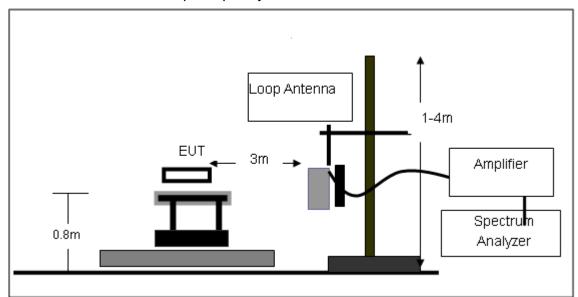
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD No deviation

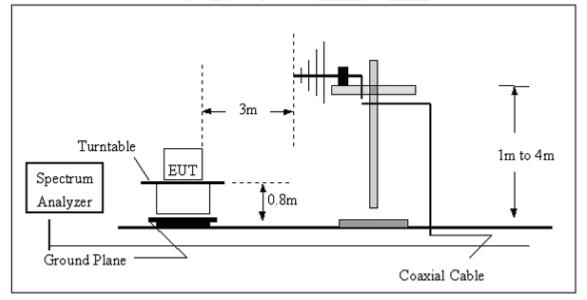


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

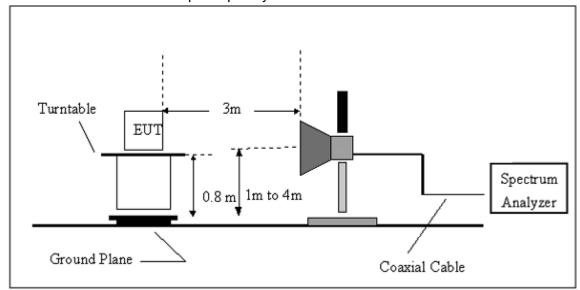


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) 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

Below 30MHz

EUT:	Flip old man phone	Model Name. :	1534			
Temperature:	20 ℃	Relative Humidity:	48%			
Pressure: 1010 hPa		Polarization :				
Test Voltage :	DC 5V from Adapter AC 120V/60Hz					
Test Mode :	Mode 1					

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



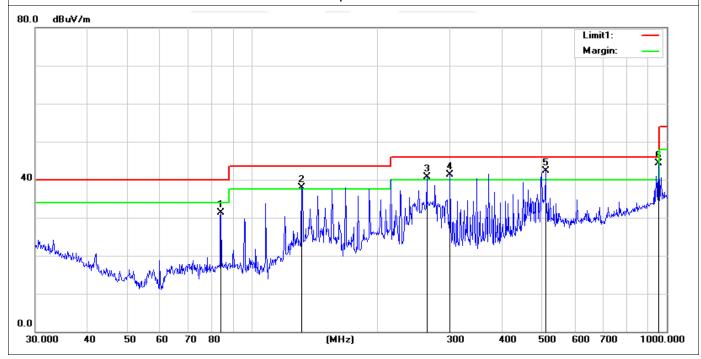
Between 30MHz - 1000 MHz

EUT:	Flip old man phone	Model Name. :	1534		
Temperature:	20 ℃	Relative Humidity:	48%		
Pressure:	1010 hPa	Polarization :	Horizontal		
Test Voltage :	DC 5V from Adapter AC 120V/60Hz				
Test Mode :	Mode 1				

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
84.1100	22.44	8.77	31.21	40.00	-8.79	QP
131.7575	25.23	12.75	37.98	43.50	-5.52	QP
263.8190	25.39	15.39	40.78	46.00	-5.22	QP
300.3672	26.14	15.23	41.37	46.00	-4.63	QP
510.0436	21.59	20.75	42.34	46.00	-3.66	QP
955.4380	15.15	29.23	44.38	46.00	-1.62	QP

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.



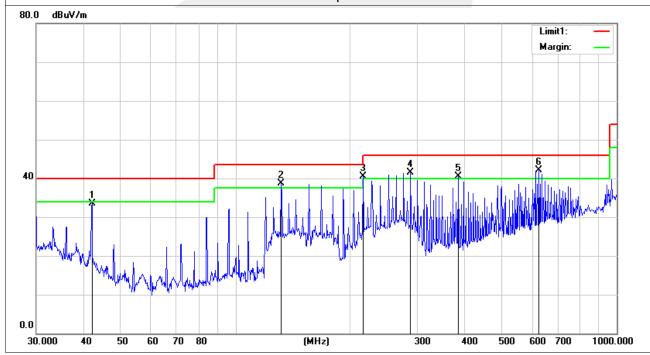


EUT: Flip old man phone		Model Name. :	1534			
Temperature:	20 ℃	Relative Humidity:	48%			
Pressure:	1010 hPa	Polarization :	Vertical			
Test Voltage :	DC 5V from Adapter AC 120V/60Hz					
Test Mode :	Mode 1					

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
42.0065	20.77	12.67	33.44	40.00	-6.56	QP
131.7576	25.92	12.75	38.67	43.50	-4.83	QP
216.0240	30.12	10.35	40.47	46.00	-5.53	QP
287.9904	26.61	14.85	41.46	46.00	-4.54	QP
383.9318	22.61	17.94	40.55	46.00	-5.45	QP
625.0780	18.96	23.18	42.14	46.00	-3.86	QP

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.



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Above 1GHz

The worst test data above 1 GHz was showed as thefollow:

EUT:	Flip old man phone	Model Name. :	I534			
Temperature:	20 ℃	Relative Humidity:	48%			
Pressure :	1010 hPa	Test Mode: Mode 1				
Test Voltage :	age : DC 5V from Adapter AC 120V/60Hz					

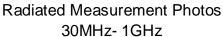
Freq.	Ant. Pol	Peak	AV	Ant./CL	Actual Fs		Peak	AV	Peak	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	margin	margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)
					(dBuV/m)	(dBuV/m)				
1097.22	Н	57.33	41.32	5.15	62.48	46.47	74	54	-11.52	-7.53
2866.4	Н	53.25	38.24	9.45	62.7	47.69	74	54	-11.3	-6.31
N/A										
1069.22	V	52.88	37.55	5.15	58.03	42.7	74	54	-15.97	-11.3
2896.40	V	49.87	32.14	9.45	59.32	41.59	74	54	-14.68	-12.41
N/A										

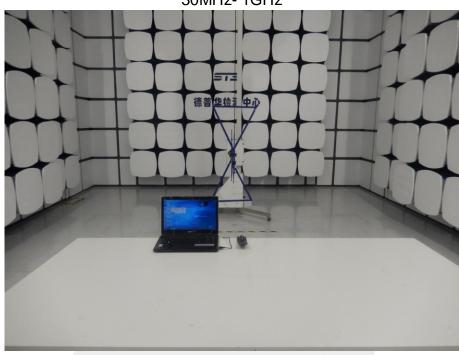
Notes:

- 1. Measuring frequencies from 1 GHz to 6GHz.
- 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.

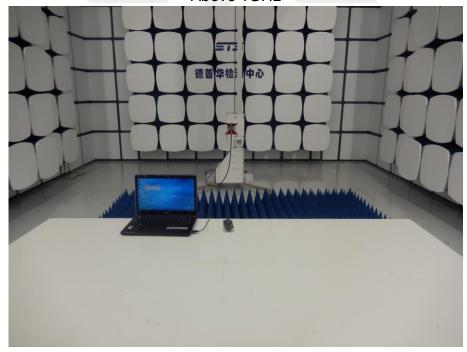


4. PHOTOS OF TEST SETUP





Above 1GHz





Conducted Measurement Photos

