

FCC Part 15B TEST REPORT

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Report No: STS1504038F01

Issued for

HK AONYSTAR CO., LIMITED

ROOM 1103, HANG SENG MONGKOK BUILDING, 677 NATHAN ROAD, MONGKOK, KOWLOON HONGKONG

Product Name:	GSM MOBILE PHONE
Brand Name:	MYCOM,D3,N-Tech,AONY,Vinovo
Model No.:	DD
Series Model:	D300,C5,C2,G510
FCC ID:	2AB7A-201501
Test Standard:	FCC Part 15B

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TEST RESULT CERTIFICATION

	HK AONYSTAR CO.,LIMITED
Address	ROOM 1103, HANG SENG MONGKOK BUILDING, 677 NATHAN ROAD, MONGKOK, KOWLOON HONGKONG
Manufacture's Name	HK AONYSTAR CO., LIMITED
Address	ROOM 1103,HANG SENG MONGKOK BUILDING,677 NATHAN ROAD, MONGKOK,KOWLOON HONGKONG
Product description	
Product name	GSM MOBILE PHONE
Band name	MYCOM,D3,N-Tech,AONY,Vinovo
Model and/or type reference	DD
Standards	FCC Part 15B
Test procedure	ANSI C63.4-2014
under test (EUT) is in compliant sample identified in the report. This report shall not be rep	as been tested by STS, and the test results show that the equipment nee with the FCC requirements. And it is applicable only to the tested roduced except in full, without the written approval of STS, this evised by STS, personal only, and shall be noted in the revision of the
Date of Test	
Date of performance of tests	18 April. 2015 ~25 April. 2015
Date of Issue	27 April. 2015

Test Result Pass

Testing Engineer :	halim. hou
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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	27 April. 2015	STS1504038F01	ALL	Initial Issue



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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 (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 FACILITY

Shenzhen STS Test Services Co., Ltd. Add.: 1/F, Building B, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.

CNAS Registration No.: L7659

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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± 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 (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(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	GSM MOBILE PHONE
Trade Name	MYCOM,D3,N-Tech,AONY,Vinovo
Model Name	DD
Serial Model	D300,C5,C2,G510
Model Difference	They are different only for model name.
Channel List	Please refer to the Note 2.
Power Rating	Adapter: Input:AC 100-240V,50/60Hz,150mA Output:DC 5V,500mA Battery: Rated Voltage:3.7V capacity : 890mA
Hardware version number	N/A
Software versioning number	N/A
Connecting I/O Port(s)	N/A

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

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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.

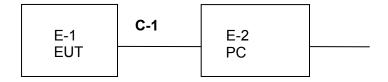
Pretest Mode	Description
Mode 1	USB
Mode 2	ВТ
Mode 3	GSM
Mode 4	Camera

For Conducted Test		
Final Test Mode	Description	
Mode 1	USB	

For Radiated Test		
Final Test Mode	Description	
Mode 1	USB	

NOTE: 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	GSM MOBILE PHONE	MYCOM,D3,N-Tech,AONY,Vinovo	DD	N/A	EUT
E-2	PC	Lenovo	B460	WB03928113	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	unshielded	NO	72.6cm	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".



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.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Loop Antenna	Daze	ZN30900N	SEL0097	2014.10.27	2015.10.26
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.25	2015.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.06	2016.03.05
PreAmplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Temperature & Humitidy	Mieo	HH660	N/A	2014.10.28	2015.10.27
Unversal radio communication tester	R&S	CMU200	111764	2014.10.25	2015.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24

Radiation Test equipment

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2014.11.20	2015.11.19
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
Absorbing clamp	R&S	MDS-21	100668	2014.10.27	2015.10.26

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
FREQUENCE (MIDZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
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

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

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.

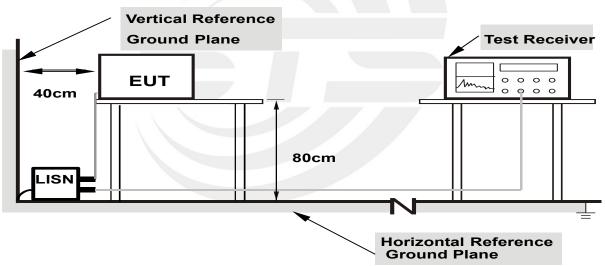
I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the

- 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.



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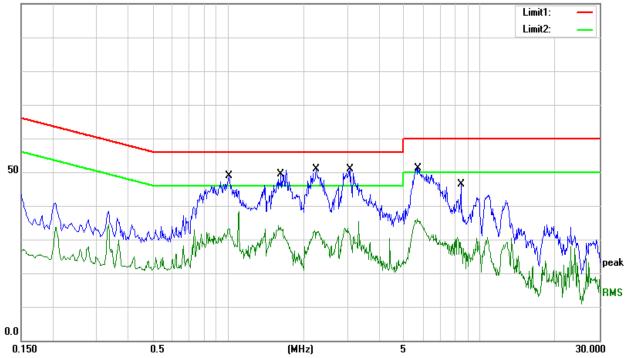
3.1.6 TEST RESULTS

EUT:	GSM MOBILE PHONE	Model Name.:	DD
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	1.0100	35.92	9.90	45.82	56.00	-10.18	QP
2	1.0100	23.27	9.90	33.17	46.00	-12.83	AVG
3	1.6220	36.38	9.96	46.34	56.00	-9.66	QP
4	1.6220	24.17	9.96	34.13	46.00	-11.87	AVG
5	2.2420	37.94	10.00	47.94	56.00	-8.06	QP
6	2.2420	22.55	10.00	32.55	46.00	-13.45	AVG
7	3.0620	37.79	10.00	47.79	56.00	-8.21	QP
8	3.0620	23.30	10.00	33.30	46.00	-12.70	AVG
9	5.6860	37.00	10.20	47.20	60.00	-12.80	QP
10	5.6860	23.96	10.20	34.16	50.00	-15.84	AVG
11	8.4500	33.17	10.29	43.46	60.00	-16.54	QP
12	8.4500	20.43	10.29	30.72	50.00	-19.28	AVG

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier. 100.0 dBuV





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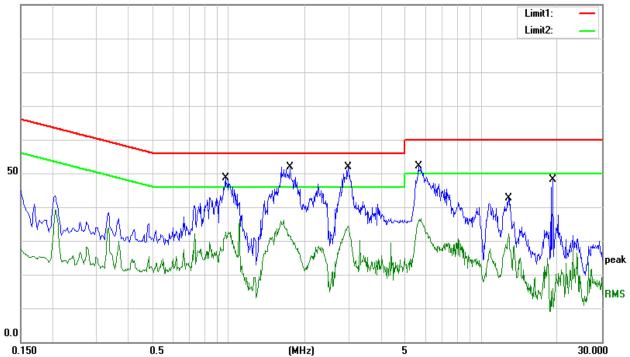
EUT:	GSM MOBILE PHONE	Model Name.:	DD
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.9700	35.69	10.00	45.69	56.00	-10.31	QP
2	0.9700	22.70	10.00	32.70	46.00	-13.30	AVG
3	1.7460	38.95	10.00	48.95	56.00	-7.05	QP
4	1.7460	24.23	10.00	34.23	46.00	-11.77	AVG
5	2.9700	38.86	10.00	48.86	56.00	-7.14	QP
6	2.9700	24.29	10.00	34.29	46.00	-11.71	AVG
7	5.6420	38.85	10.20	49.05	60.00	-10.95	QP
8	5.6420	26.31	10.20	36.51	50.00	-13.49	AVG
9	12.8100	29.30	10.30	39.60	60.00	-20.40	QP
10	12.8100	19.75	10.30	30.05	50.00	-19.95	AVG
11	19.1900	34.65	10.55	45.20	60.00	-14.80	QP
12	19.1900	9.26	10.55	19.81	50.00	-30.19	AVG

Remark:

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

100.0 dBuV



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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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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)

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

Note:

- (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

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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 band)	1 MHz / 1 MHz, AV=1 MHz / 10Hz		

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.

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter b. open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test

c. antenna shall vary between 0.8 m 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

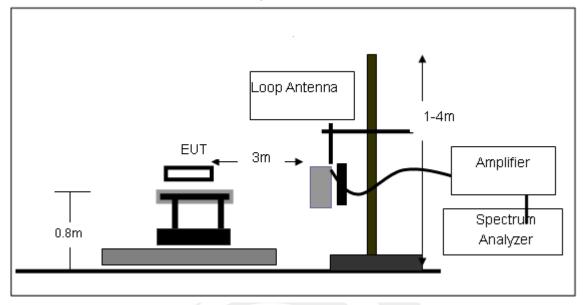
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

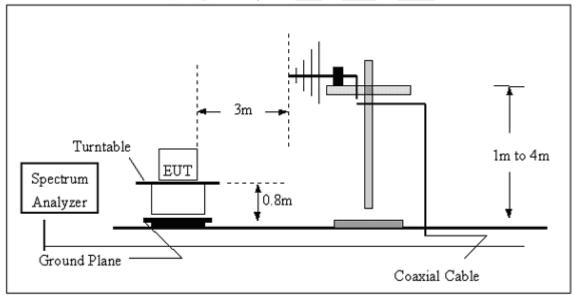


3.2.4 TEST SETUP

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

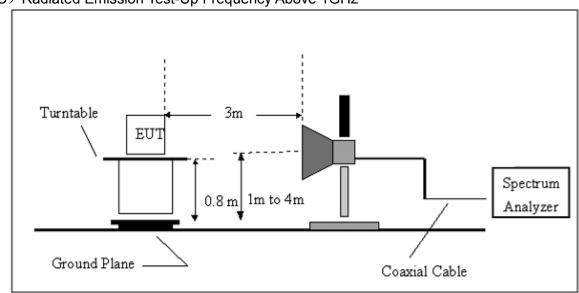


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz









(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:	GSM MOBILE PHONE	Model Name.:	DD
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 5V	Test Mode:	N/A

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict

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 30-1000MHz

EUT:	GSM MOBILE PHONE	Model Name.:	DD
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.8746	18.16	15.89	34.05	40.00	-5.95	QP
2	84.1100	26.33	8.77	35.10	40.00	-4.90	QP
3	131.7574	26.31	12.75	39.06	43.50	-4.44	QP
4	287.9904	25.64	14.85	40.49	46.00	-5.51	QP
5	480.5276	20.41	20.40	40.81	46.00	-5.19	QP
6	625.0780	16.76	23.18	39.94	46.00	-6.06	QP
	•					•	·

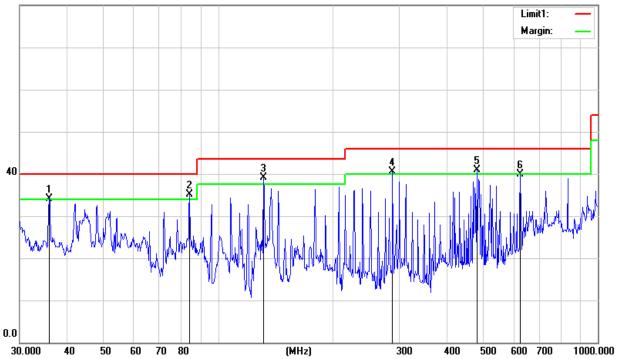
Remark:

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

2. Factor = Antenna Factor + Cable Loss.

3. N/A means All Data have pass Limit

80.0 dBuV/m





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EUT:	GSM MOBILE PHONE	Model Name.:	DD
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 5V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	59.8588	29.17	5.69	34.86	40.00	-5.14	QP
2	132.2204	26.40	12.75	39.15	43.50	-4.35	QP
3	167.8240	26.38	11.06	37.44	43.50	-6.06	QP
4	276.1235	23.40	14.69	38.09	46.00	-7.91	QP
5	473.8346	21.02	20.26	41.28	46.00	-4.72	QP
6	833.3170	12.89	27.32	40.21	46.00	-5.79	QP

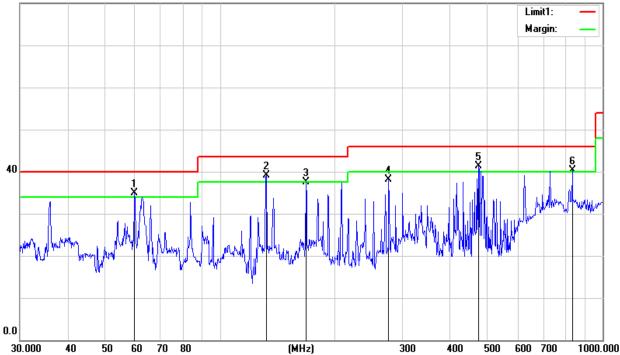
Remark:

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

2. Factor = Antenna Factor + Cable Loss.

3. N/A means All Data have pass Limit

80.0 dBuV/m







Above 1GHz

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

EUT:	GSM MOBILE PHONE	Model Name.:	DD
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	Mode 1

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	Peak AV		(dBuV/m	(dBuV/m	(dBuV/
					(dBuV/m	(dBuV/m				
1097.85	Н	57.53	41.28	5.15	62.68	46.43	74.00	54.00	-11.32	-7.57
2866.81	Н	52.72	38.29	9.45	62.17	47.74	74.00	54.00	-11.83	-6.26
N/A										
1069.96	V	52.85	37.55	5.15	58.00	42.70	74.00	54.00	-16.00	-11.30
2896.24	V	49.91	32.14	9.45	59.36	41.59	74.00	54.00	-14.64	-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.

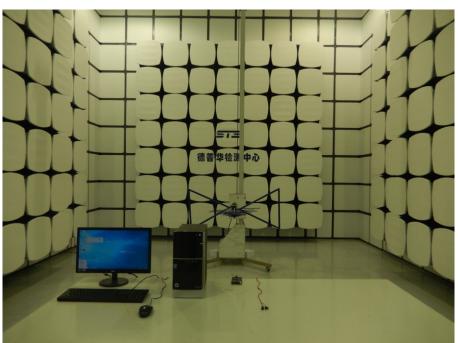
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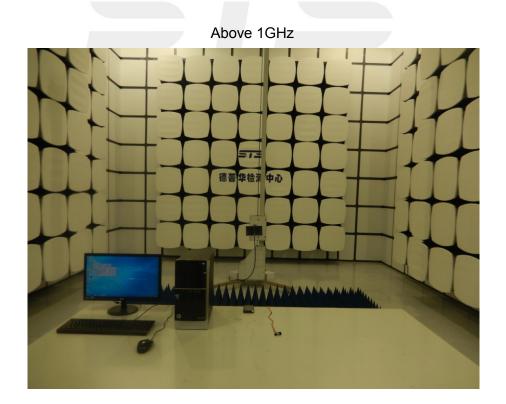


4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz- 1GHz





Shenzhen STS Test Services Co., Ltd.

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Conducted Measurement Photos



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