

FCC Part 15B TEST REPORT

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Report No: STS1610008E01

Issued for

Mobile commodity corporation

20955 pathfinder road, Suite 200, Diamond bar, CA 91765 United States

Product Name:	3G Phone
Brand Name:	Cellacom
Model Name:	M531
Series Model:	N/A
FCC ID:	2AF6M3396993M531
Test Standard:	FCC Part 15B

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TEST RESULT CERTIFICATION

Applicant's name	Mobile commodity corporation
Address	20955 pathfinder road, Suite 200, Diamond bar, CA 91765 United States
Manufacture's Name	Cellacom incorporation
Address:	20955 pathfinder road, ste 200, diamond bar, ca 91765, USA
Product description	
Product name:	3G Phone

Brand name.....: Cellacom

Model and/or type reference..: M531

Standards..... FCC Part 15B

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

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 08 Oct. 2016~12 Oct. 2016

Date of Issue 13 Oct. 2016

Test Result Pass

Testing Engineer :	Junta	
	(Tony Liu)	ESTING · CONSUL
Technical Manager :	Meati	
	(Vita Li)	APPROVAL 6
Authorized Signatory :	Honey Yoney	20 No.
	(Bovey Yang)	

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	13 Oct. 2016	STS1610008E01	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION				
Standard	ltem	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

Shenzhen STS Test Services Co., Ltd. Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± 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%

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	3G Phone
Trade Name	Cellacom
Model Name	M531
Series Model	N/A
Model Difference	N/A
MCU Operating frequency	1.2GHz
Adapter	Input: AC 100-240V, 200mA, 50/60 Hz Output: DC 5V, 1000mA
Battery	Rated Voltage: 3.8V Capacity: 2450mAh
Hardware version number	C179_V1.1
Software version number	V01
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.

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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 port communication with PC

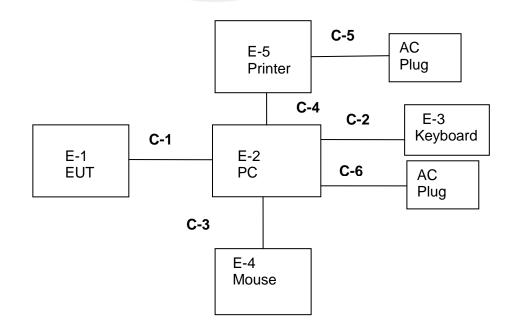
For Conducted Test		
Final Test Mode	Description	
Mode 1	USB port communication with PC	

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

NOTE:

- 1. 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



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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	3G Phone	Cellacom	M531	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 $\[\]$ Length $\[\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.

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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	2015.10.25	2016.10.24
Loop Antenna	Daze	ZN30900N	SEL0097	2015.10.27	2016.10.26
Bilog Antenna	TESEQ	CBL6111D	34678	2015.11.25	2016.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2016.03.06	2017.03.05
PreAmplifier	Agilent	8449B	60538	2015.10.25	2016.10.24
Temperature & Humitidy	Mieo	HH660	N/A	2015.10.28	2016.10.27
Unversal radio communication tester	R&S	CMU200	111764	2015.10.25	2016.10.24
Spectrum Analyzer	Agilent	E4407B	MY50140340	2015.10.25	2016.10.24
Low frequency cable	EM	R01	N/A	N/A	N/A
High frequency cable	SCHWARZBE CK	AK9515H	SN-96286/9628 7	N/A	N/A
Semi-anechoic chamber	Changling	966	N/A	2015.10.25	2016.10.24

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	2015.11.20	2016.11.19
LISN	R&S	ENV216	101242	2015.10.25	2016.10.24
LISN	EMCO	3810/2NM	000-23625	2015.10.25	2016.10.24
Conduction Cable	EM	C01	N/A	N/A	N/A
Shielding Room	Changling	854	N/A	2015.10.25	2016.10.24

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Clas	ss 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		

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3.1.2 TEST PROCEDURE

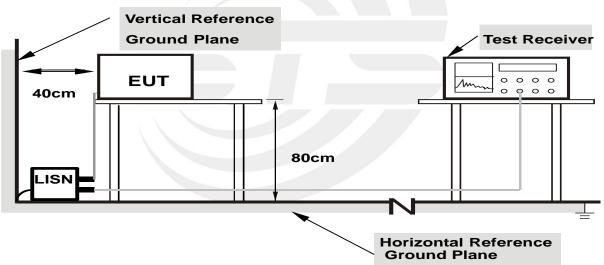
The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance

- 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
- 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:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

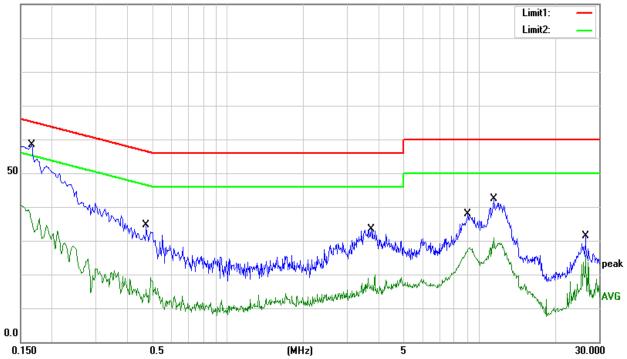
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	49.10	9.23	58.33	65.16	-6.83	QP
2	0.1660	25.11	9.23	34.34	55.16	-20.82	AVG
3	0.4740	25.48	9.22	34.70	56.44	-21.74	QP
4	0.4740	6.32	9.22	15.54	46.44	-30.90	AVG
5	3.7340	24.01	9.26	33.27	56.00	-22.73	QP
6	3.7340	7.52	9.26	16.78	46.00	-29.22	AVG
7	9.0580	28.42	9.43	37.85	60.00	-22.15	QP
8	9.0580	18.57	9.43	28.00	50.00	-22.00	AVG
9	11.4660	33.00	9.48	42.48	60.00	-17.52	QP
10	11.4660	18.34	9.48	27.82	50.00	-22.18	AVG
11	26.4860	21.50	9.79	31.29	60.00	-28.71	QP
12	26.4860	15.93	9.79	25.72	50.00	-24.28	AVG

Remark:

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

2. Margin = Result (Result = Reading + Factor)-Limit

100.0 dBu¥



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

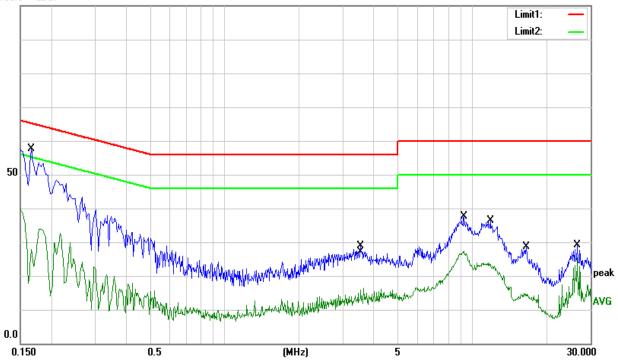
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	48.34	9.23	57.57	65.16	-7.59	QP
2	0.1660	15.54	9.23	24.77	55.16	-30.39	AVG
3	3.5380	19.57	9.26	28.83	56.00	-27.17	QP
4	3.5980	3.78	9.26	13.04	46.00	-32.96	AVG
5	9.2620	28.08	9.45	37.53	60.00	-22.47	QP
6	9.2620	17.29	9.45	26.74	50.00	-23.26	AVG
7	11.8380	26.84	9.47	36.31	60.00	-23.69	QP
8	11.8380	12.77	9.47	22.24	50.00	-27.76	AVG
9	16.5540	18.98	9.61	28.59	60.00	-31.41	QP
10	16.5540	3.69	9.61	13.30	50.00	-36.70	AVG
11	26.6100	19.28	9.80	29.08	60.00	-30.92	QP
12	26.6100	15.52	9.80	25.32	50.00	-24.68	AVG

Remark:

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

2. Margin = Result (Result = Reading + Factor)-Limit

100.0 dBu¥



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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	Range (MHz)
(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)		
	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.

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 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

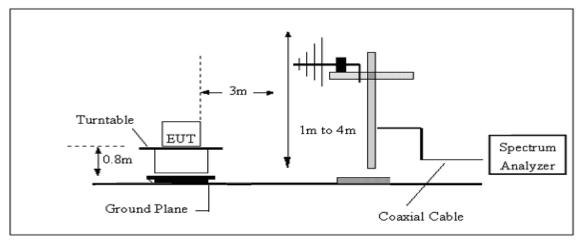
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

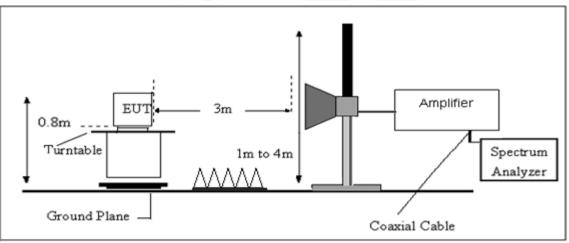


3.2.4 TEST SETUP

(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 ℃	Relative Humidity:	54%
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	44.53	-20.53	24.00	40.00	-16.00	QP
2	166.0680	50.04	-19.00	31.04	43.50	-12.46	QP
3	239.9873	58.63	-17.76	40.87	46.00	-5.13	QP
4	389.3550	49.43	-11.97	37.46	46.00	-8.54	QP
5	480.5276	44.64	-9.38	35.26	46.00	-10.74	QP
6	766.0571	39.32	-3.46	35.86	46.00	-10.14	QP

Remark:

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





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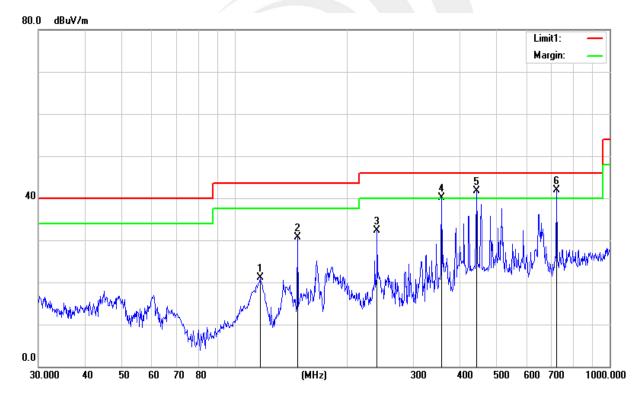
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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	116.9495	38.89	-17.88	21.01	43.50	-22.49	QP
2	147.4036	48.51	-17.85	30.66	43.50	-12.84	QP
3	239.9873	50.03	-17.76	32.27	46.00	-13.73	QP
4	356.6758	53.46	-13.28	40.18	46.00	-5.82	QP
5	441.7426	52.52	-10.82	41.70	46.00	-4.30	QP
6	721.7260	46.42	-4.54	41.88	46.00	-4.12	QP

Remark:

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



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(1 GHz to 13GHz.)

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

PK

_	Ant.	_	A 110		Antenna	Orrected		_	<u> </u>
Freq.	Peak Peak	Peak	Amplifier	Loss	Factor	Factor	Actual Fs	Peak	Peak
		Reading			(dB/m)		Peak	Limit	margin
(MHz)	H/V	(dBuV)	(dB)	(dB)	(ub/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
2052.8	Н	57.64	43.8	5.4	25.9	-12.5	45.14	74.00	-28.86
2523.5	Н	52.86	44.4	6.0	27.6	-10.8	42.06	74.00	-31.94
3007.2	Н	57.65	44.7	6.7	28.2	-9.8	47.85	74.00	-26.15
3503.6	Н	52.86	44.4	7.1	28.5	-8.8	44.06	74.00	-29.94
N/A									
2052.8	V	52.34	43.8	5.4	25.9	-12.5	39.84	74.00	-34.16
2523.5	V	49.86	44.4	6.0	27.6	-10.8	39.06	74.00	-34.94
3007.2	V	52.76	44.7	6.7	28.2	-9.8	42.96	74.00	-31.04
3503.6	V	49.68	44.4	7.1	28.5	-8.8	40.88	74.00	-33.12
N/A									
۸۷		1						<u> </u>	

AV

Freq.	Ant.	AV	Amplifier	Loss	Antenna	Orrected		AV	AV
	Pol			Factor	Factor				
	1107	Reading			(dD/ma)		AV	Limit	margin
(MHz)	H/V	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)
2052.8	H	41.76	43.8	5.4	25.9	-12.5	29.26	54.00	-24.74
2523.5	H	38.87	44.4	6.0	27.6	-10.8	28.07	54.00	-25.93
3007.2	Н	41.65	44.7	6.7	28.2	-9.8	31.85	54.00	-22.15
3503.6	Н	38.76	44.4	7.1	28.5	-8.8	29.96	54.00	-24.04
N/A									
2052.8	V	37.54	43.8	5.4	25.9	-12.5	25.04	54.00	-28.96
2523.5	V	33.97	44.4	6.0	27.6	-10.8	23.17	54.00	-30.83
3007.2	V	37.89	44.7	6.7	28.2	-9.8	28.09	54.00	-25.91
3503.6	V	32.67	44.4	7.1	28.5	-8.8	23.87	54.00	-30.13
N/A									

Notes:

1. Measuring frequencies from 1 GHz to 13GHz.

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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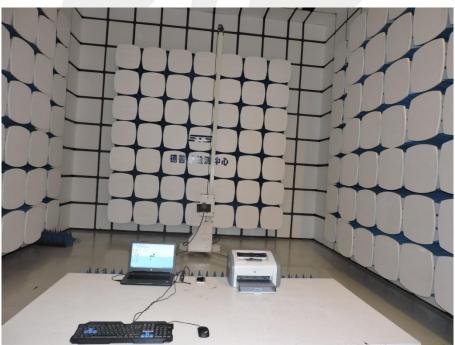
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz- 1GHz



Above 1GHz



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Conducted Measurement Photos



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

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