



FCC Part 15B TEST REPORT

Report No: STS1508130E01

Issued for

DaNo Mobile com LTD

hagve 4 netania, isreal

L A B

Product Name:	Flip phone	
Brand Name:	DaNo	
Model No.:	1524	
Series Model:	N/A	
FCC ID:	2ADWD-I524	
Test Standard:	FCC Part 15B	

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Shenzhen STS Test Services Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name	DaNo Mobile com LTD
Address	hagve 4 netania ,isreal
Manufacture's Name	DaNo Mobile com LTD
Address	hagve 4 netania ,isreal
Product description	
Product name	Flip phone
Brand name	DaNo
Model and/or type reference	1524
Standards	FCC Part 15B
Test procedure	ANSI C63.4-2014
sample identified in the report. This report shall not be reprodumay be altered or revised by S Date of Test Date of performance of tests	
Date of Issue	11 Sep. 2015
Test Result	Pass
Testing Engi	neer : hakim hou (Hakim Hou)
Technical Ma	anager : (Vita Li)
Authorized S	Signatory: Lowey Juney

(Bovey Yang)







Table of Contents

1.	SUMMARY OF TEST RESULTS	5
	1.1 TEST FACTORY	5
	1.2 MEASUREMENT UNCERTAINTY	5
2.	GENERAL INFORMATION	6
	2.1 GENERAL DESCRIPTION OF EUT	6
	2.2 DESCRIPTION OF TEST MODES	7
	2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	7
	2.4 DESCRIPTION OF SUPPORT UNITS	8
	2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
3.	EMC EMISSION TEST	10
	3.1 CONDUCTED EMISSION MEASUREMENT 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD 3.1.4 TEST SETUP 3.1.5 EUT OPERATING CONDITIONS 3.1.6 TEST RESULTS	10 10 11 11 11 11
	3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS	14 14 15 15 16 17
4	PHOTOS OF TEST SETUP	22



Page 4 of 23 Report No.: STS1508130E01

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	11 Sep. 2015	STS1508130E01	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

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 \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)	±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%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Flip phone
Trade Name	DaNo
Model Name	1524
Serial Model	N/A
Model Difference	N/A
Channel List	Please refer to the Note 2.
Power Rating	Battery: Rated Voltage:3.7V capacity: 800mA
Hardware version number	A116-MB-V1.1
Software versioning number	EHRA_PAGMENU LCD991027735YD CA61233901_R
Connecting I/O Port(s)	USB Port

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 do data communication with PC

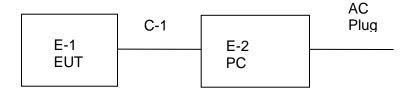
For Conducted Test			
Final Test Mode	Description		
Mode 1	USB port do data communication with PC		

For Radiated Test			
Final Test Mode Description			
Mode 1	USB port do data 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.	Series No.	Note
E-1	Flip phone	DaNo	l524	N/A	EUT
E-2	PC	HP	500-320cx	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	unshielded	NO	100cm	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 <code>"Length_"</code> 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	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

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
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



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	
PREQUENCY (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Staridard
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	



3.1.2 TEST PROCEDURE

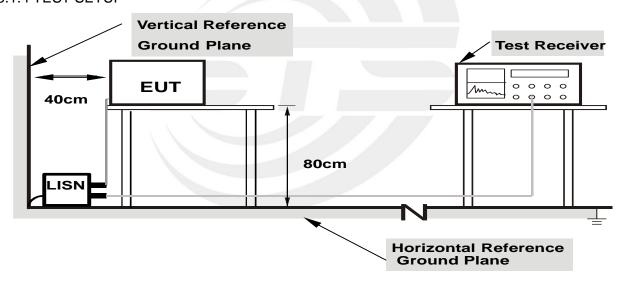
The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support

- a. 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.



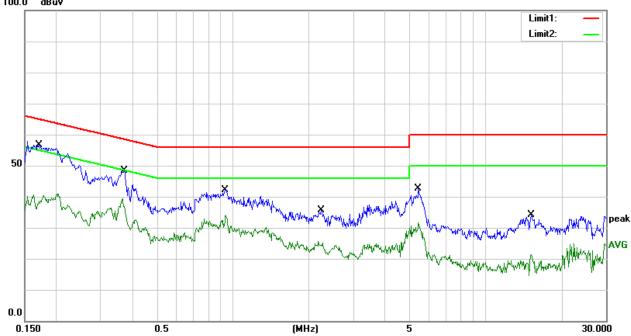
3.1.6 TEST RESULTS

EUT:	Flip phone	Model Name.:	1524
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 3.7V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1711	46.66	10.00	56.66	64.91	-8.25	QP
2	0.1711	28.74	10.00	38.74	54.91	-16.17	AVG
3	0.3710	38.17	10.11	48.28	58.48	-10.20	QP
4	0.3710	26.81	10.11	36.92	48.48	-11.56	AVG
5	0.9340	32.32	9.92	42.24	56.00	-13.76	QP
6	0.9340	23.83	9.92	33.75	46.00	-12.25	AVG
7	2.2460	25.73	10.00	35.73	56.00	-20.27	QP
8	2.2460	14.34	10.00	24.34	46.00	-21.66	AVG
9	5.4460	32.51	10.20	42.71	60.00	-17.29	QP
10	5.4460	21.43	10.20	31.63	50.00	-18.37	AVG
11	15.1500	23.90	10.32	34.22	60.00	-25.78	QP
12	15.1500	10.98	10.32	21.30	50.00	-28.70	AVG

Remark:

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





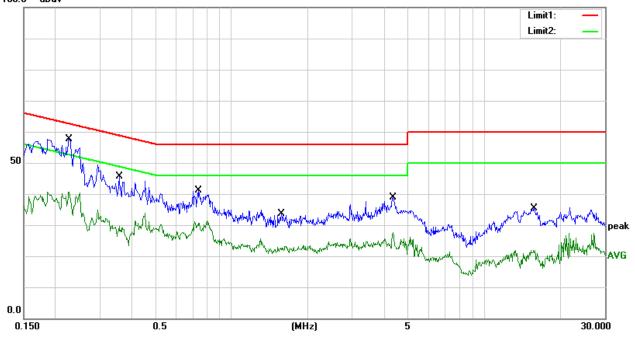
Page 13 of 23 Report No.: STS1508130E01

EUT:	Flip phone	Model Name.:	1524
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 3.7V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2268	47.76	9.97	57.73	62.57	-4.84	QP
2	0.2268	30.58	9.97	40.55	52.57	-12.02	AVG
3	0.3580	35.63	9.96	45.59	58.77	-13.18	QP
4	0.3580	18.29	9.96	28.25	48.77	-20.52	AVG
5	0.7420	31.10	10.00	41.10	56.00	-14.90	QP
6	0.7420	20.56	10.00	30.56	46.00	-15.44	AVG
7	1.5700	23.59	10.00	33.59	56.00	-22.41	QP
8	1.5700	12.23	10.00	22.23	46.00	-23.77	AVG
9	4.3420	28.60	10.20	38.80	56.00	-17.20	QP
10	4.3420	17.30	10.20	27.50	46.00	-18.50	AVG
11	15.7300	25.05	10.34	35.39	60.00	-24.61	QP
12	15.7300	10.69	10.34	21.03	50.00	-28.97	AVG

Remark:

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





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In the emission fall within the restricted band specified on 15.105(a), then the 15.109(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)

FREQUENCY (MHz)	Class A (d	IBuV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MITZ)	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 measurement used in the device or on which device operates or tunes (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

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Page 15 of 23 Report No.: STS1508130E01

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=3 MHz

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 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

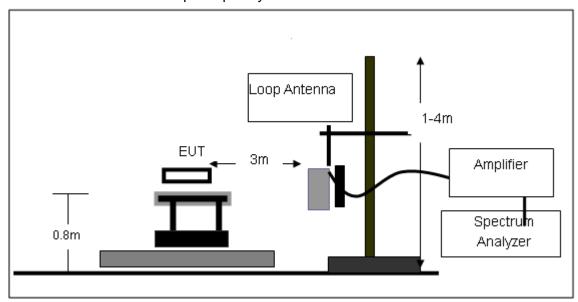
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

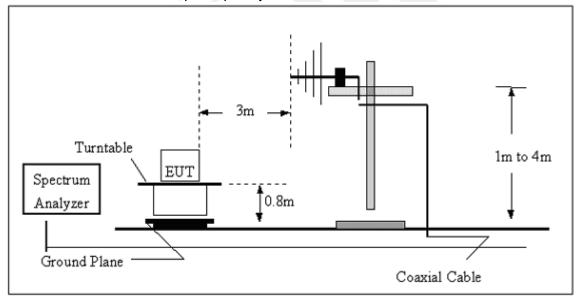


3.2.4 TEST SETUP

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

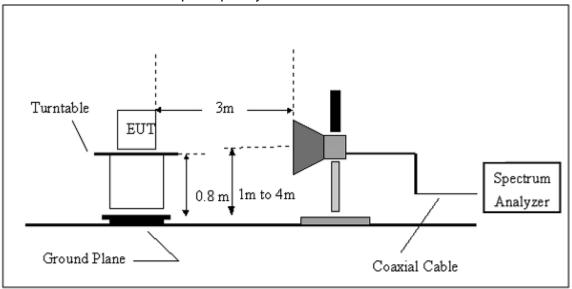


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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 phone	Model Name.:	1524
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N/A
Test Voltage:	DC 3.7V	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.





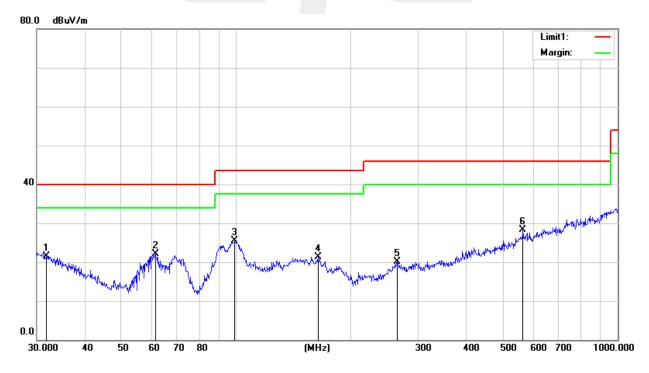
Between 30-1000MHz

EUT:	Flip phone	Model Name.:	1524
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 3.7V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.7313	3.78	17.81	21.59	40.00	-18.41	QP
2	61.3462	16.64	5.40	22.04	40.00	-17.96	QP
3	99.1795	14.99	10.60	25.59	43.50	-17.91	QP
4	163.7550	10.14	11.17	21.31	43.50	-22.19	QP
5	264.7456	5.14	14.97	20.11	46.00	-25.89	QP
6	564.6390	5.72	22.63	28.35	46.00	-17.65	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





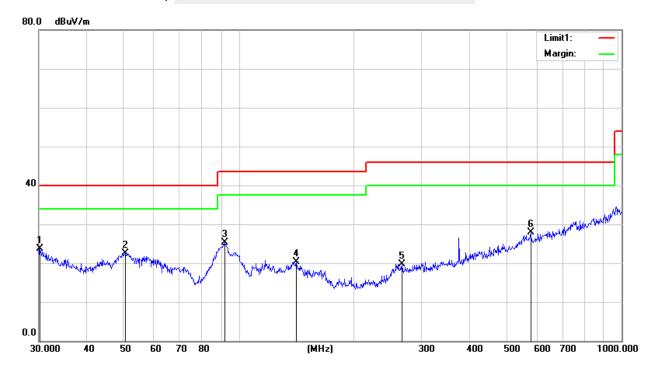
Page 20 of 23 Report No.: STS1508130E01

EUT:	Flip phone	Model Name.:	1524
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 3.7V	Test Mode:	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2110	5.08	18.60	23.68	40.00	-16.32	QP
2	50.4090	14.68	7.90	22.58	40.00	-17.42	QP
3	91.8162	15.51	9.72	25.23	43.50	-18.27	QP
4	141.3298	7.85	12.49	20.34	43.50	-23.16	QP
5	266.6090	4.96	14.78	19.74	46.00	-26.26	QP
6	578.6698	5.57	22.36	27.93	46.00	-18.07	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





Above 1GHz

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

EUT:	Flip phone	Model Name.:	1524
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	Mode 1

Freq.	Ant. Pol	Peak	AV	Ant./CL	Λotu	al Fs	Peak	AV	Peak	AV
(MHz)	H/V	Reading	Reading	CF	Actu	ai FS	Limit	Limit	margin	margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m	(dBuV/m	(dBuV/
					(dBuV/m	(dBuV/m				
1097.67	Н	57.93	41.28	5.15	63.08	46.43	74.00	54.00	-10.92	-7.57
2866.93	Н	52.36	38.29	9.45	61.81	47.74	74.00	54.00	-12.19	-6.26
N/A										
1069.32	V	52.69	37.55	5.15	57.84	42.70	74.00	54.00	-16.16	-11.30
2896.86	V	49.51	32.14	9.45	58.96	41.59	74.00	54.00	-15.04	-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.



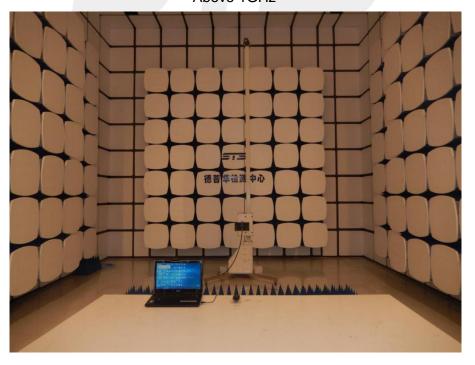
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz-1GHz



Above 1GHz





Conducted Measurement Photos



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