



FCC RADIO TEST REPORT FCC ID: 055182522

Product: 3G FLIP PHONE Trade Mark: LOGIC,UNONU,iSWAG Model No.: F6G Family Model: JET, FLIPPER G Report No.: STR220518001002E Issue Date: Jul 11, 2022

Prepared for

SWAGTEK

10205 NW 19th Street STE101Miami, FL 33172

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	SWAGTEK
Address	10205 NW 19th Street STE101Miami, FL 33172
Manufacturer's Name	SWAGTEK
Address	10205 NW 19th Street STE101Miami, FL 33172
Product description	
Product name	3G FLIP PHONE
Model and/or type reference	F6G
Family Model	JET, FLIPPER G
TestSample Number:	STR220518001

Certificate #4298.01

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
47 CFR Part 2, Part 22H, Part 24E, Part 27	
ANSI/TIA-603-E-2016	Complied
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied
ANSI C63.26:2015	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., 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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The test results of this report relate only to the tested sample identified in this report.

Date of Test	: May 18. 2022 ~ Jul 11. 2022		
	Krang. Hu		
Testing Engineer			
	(Mary Hu)		
	Aless		
Authorized Signatory	Ģ		
	(Alex Li)		



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& ANSI C63.26-2015 FCC Rule Test Item Verdict Remark								
FCC Rule	l est item	verdict	Remark					
2.1046	Conducted Output Power	PASS						
24.232 27.50 KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS						
2.1049 22.917 24.238 KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS						
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	Band Edge	PASS						
22.913 KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS						
24.232 27.50 KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS						
2.1053 22.917 24.238 27.53 KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS						
2.1055 22.355 24.235 27.54 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS						
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	Conducted Emission	PASS						
Remark: 1. "N/A" denotes test is not a 2. All test items were verified the test.	pplicable in this Test Report. d and recorded according to the standards and recorded according to the standards and record and reco	without any dev	iation duri					





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.26 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description CNAS-Lab. IC-Registration	: The Certificate Registration Number is L5516. The Certificate Registration Number is 9270A-1.
FCC- Accredited	Test Firm Registration Number: 463705.
A2LA-Lab.	Designation Number: CN1184 The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, 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	Measuring Uncertainty for a Level of Confidence of 95% (U = $2Uc(y)$)	2.5dB





4 GENERAL DESCRIPTION OF EUT					
Product Feature and Specification					
Equipment	3G FLIP PHONE				
Trade Mark	LOGIC,UNONU,iSWAG				
FCC ID	O55182522				
Model No.	F6G				
Family Model	JET, FLIPPER G				
Model Difference	All models are the same circuit and RF module, except the Model name.				
Operating Frequency	GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; UMTS-FDD Band IV:TX1710MHz~1755MHz /RX2110MHz~2155MHz				
Modulation	☐GMSK for GSM/GPRS; ☐QPSK for UMTS bands;				
Power Class	4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900) 3, tested with power control "all 1"(WCDMA Band II//V)				
GPRS Class	⊠Multi-Class12 ⊠Only 4 timeslots are used for GPRS				
SIM CARD	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The two SIM been tested, the SIM 1 is worst. The SIM 1 is chosen for test.				
Antenna Type	PIFA Antenna				
Antenna Gain	GSM 850: -0.3dBi; GSM:1900:-0.8dBi Band II: -0.8dBi; Band V: -0.3dBi				
	DC supply: DC 3.7V/ 800mAh from battery or DC 5V from Adapter.				
Power supply	Adapter supply: Model:V8 Input: AC 100-240V~50/60Hz 0.15A Output: DC 5V500mA				
HW Version	C750L_MB_V1.1				
SW Version	LOGIC_F6G_GENERIC_V7.0_12_05_2022				
as an ITE/Computing D	Dication, features, or specification exhibited in User's Manual, the EUT is considered Device. More details of EUT technical specification, please refer to the User's Manual. and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate lower voltage.				





Certificate #4298.01 Revision History						
Report No.	Version	Description	Issued Date			
STR220518001002E	Rev.01	Initial issue of report	Jul 11, 2022			
	<u> </u>					





5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on, GSM/GPRS 850, GSM/GPRS 1900, HSDPA band II, HSDPA band II, HSDPA band V, HSUPA band V frequency band.

Note: GSM/GPRS 850, GSM/GPRS 1900, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band V modes have been tested during the test. the worst condition be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V

2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes					
Band	For Radiated Test Cases				
GSM 850/1900	GSM Link	GSM Link			
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link			
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link			

Test Frequency and Channels:

Frequency Band	🖂 GSM 850		⊠GSM 1900		UMTS Band II		UMTS Band V	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	189	836.4	661	1880.0	9400	1880.0	4182	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4



6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For Radia	ted Test Cas	Ses					
		EUT					
For Condu	ucted Outpu	t Power					
	easurement	Attenuator -	C1 EU	т			
	nstrument			<u> </u>			
For Peak-	to Average I	Ratio, Occupio	ed Bandwidth	, Conducted	l Band edge ar	nd Conduct	ted Spurious Em
Syste	m Simulator	·	C3	wer Divider			
Spect	rum Analyze	r Attenuator			C2 EU	т	
			C4				
For Frequ	ency Stabilit	·····					.;
		. y					
	easurement	Attenuator	C5 EU	T C6	DC Power Source		
			Thermal C	Chamber	Boulee		

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6.2 SUPPORT EQUIPMENT

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

Notes:

- (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".





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.06.16	2023.06.15	1 year
2	Test Receiver	R&S	ESPI	101318	2022.04.06	2023.04.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.11.07	2022.11.06	1 year
7	Amplifier	EM	EM-30180	060538	2022.03.31	2023.03.30	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2022.03.31	2023.03.30	1 year
9	Power Meter	R&S	NRVS	100696	2022.03.31	2023.03.30	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2022.04.06	2023.04.05	1 year
11	Test Cable	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
12	Test Cable	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable	N/A	R-03	N/A	2019.08.06	2022.08.05	3 year
14	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
15	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
16	LISN	EMCO	3816/2	00042990	2022.04.06	2023.04.05	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2020.05.11	2023.05.10	3 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2020.05.11	2023.05.10	3 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2023.05.10	3 year
22	Spectrum Analyzer	agilent	e4440a	us44300399	2022.04.01	2023.03.31	1 year
23	test receiver	R&S	ESCI	a0304218	2022.04.06	2023.04.05	1 year
24	Communication Tester	R&S	CMU200	A0304247	2022.06.17	2023.06.16	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2022.04.01	2023.03.31	1 year
26	DC Power Source	N/A	PS-6005D	2017040292 3	2020.05.11	2023.05.10	3 year

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Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.



7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

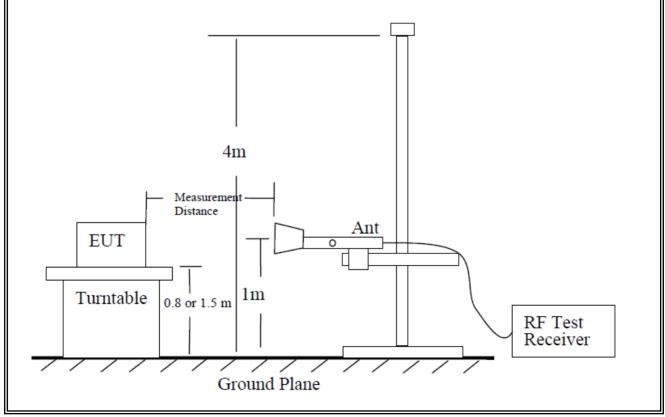
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration

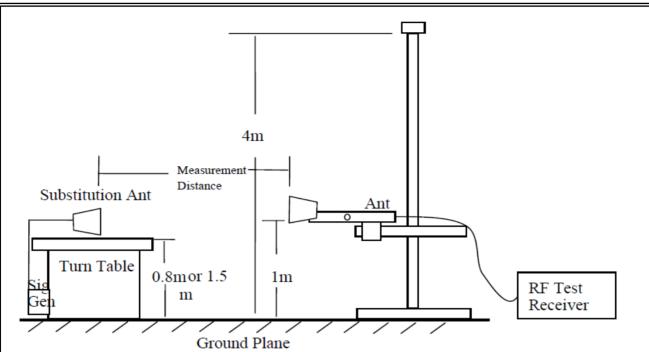
According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / V / IV / GSM 850 / 1900.

TEST CONFIGURATION









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7.1.5 Test Procedure

- EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test. The measurement results are obtained as described below:
 - Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.



7.1.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V,	Test By:	Mary Hu

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Radiated Spurious Emission

			GS	M 850					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
	Test Results for Channel 128/824.2 MHz								
1648.4	-50.13	2.80	27.50	-25.43	-13	-12.43	Vertical		
1648.4	-53.57	2.80	27.50	-28.87	-13	-15.87	Horizontal		
2472.6	-49.65	2.91	27.80	-24.76	-13	-11.76	Vertical		
2472.6	-53.65	2.91	27.80	-28.76	-13	-15.76	Horizontal		
3296.8	-53.42	4.02	29.87	-27.57	-13	-14.57	Vertical		
3296.8	-51.00	4.02	29.87	-25.15	-13	-12.15	Horizontal		
	Test Results for Channel 190/836.6 MHz								
1672.8	-50.45	2.80	27.48	-25.77	-13	-12.77	Vertical		
1672.8	-53.85	2.80	27.48	-29.17	-13	-16.17	Horizontal		
2509.2	-50.75	2.91	27.70	-25.96	-13	-12.96	Vertical		
2509.2	-51.73	2.91	27.70	-26.94	-13	-13.94	Horizontal		
3345.6	-52.85	4.02	29.82	-27.05	-13	-14.05	Vertical		
3345.6	-53.01	4.02	29.82	-27.21	-13	-14.21	Horizontal		
		Test Re	esults for Ch	annel 251/8	48.8 MHz				
1697.6	-51.83	2.80	27.42	-27.21	-13	-14.21	Vertical		
1697.6	-53.57	2.80	27.42	-28.95	-13	-15.95	Horizontal		
2546.4	-50.77	2.91	27.68	-26.00	-13	-13.00	Vertical		
2546.4	-53.99	2.91	27.68	-29.22	-13	-16.22	Horizontal		
3395.2	-50.59	4.02	29.80	-24.81	-13	-11.81	Vertical		
3395.2	-53.40	4.02	29.80	-27.62	-13	-14.62	Horizontal		

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain





			GPR	S 850			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 128/824	4.2 MHz		
1648.4	-52.99	2.80	27.50	-28.29	-13	-15.29	Vertical
1648.4	-53.33	2.80	27.50	-28.63	-13	-15.63	Horizontal
2472.6	-52.87	2.91	27.80	-27.98	-13	-14.98	Vertical
2472.6	-53.09	2.91	27.80	-28.20	-13	-15.20	Horizontal
3296.8	-52.88	4.02	29.87	-27.03	-13	-14.03	Vertical
3296.8	-54.58	4.02	29.87	-28.73	-13	-15.73	Horizontal
Test Results for Channel 190/836.6 MHz							
1672.8	-53.34	2.80	27.48	-28.66	-13	-15.66	Vertical
1672.8	-52.12	2.80	27.48	-27.44	-13	-14.44	Horizontal
2509.2	-51.78	2.91	27.70	-26.99	-13	-13.99	Vertical
2509.2	-53.90	2.91	27.70	-29.11	-13	-16.11	Horizontal
3345.6	-50.29	4.02	29.82	-24.49	-13	-11.49	Vertical
3345.6	-54.72	4.02	29.82	-28.92	-13	-15.92	Horizontal
		Test Res	sults for Cha	nnel 251/84	8.8 MHz		•
1697.6	-50.56	2.80	27.42	-25.94	-13	-12.94	Vertical
1697.6	-50.51	2.80	27.42	-25.89	-13	-12.89	Horizontal
2546.4	-53.28	2.91	27.68	-28.51	-13	-15.51	Vertical
2546.4	-51.33	2.91	27.68	-26.56	-13	-13.56	Horizontal
3395.2	-52.36	4.02	29.80	-26.58	-13	-13.58	Vertical
3395.2	-53.37	4.02	29.80	-27.59	-13	-14.59	Horizontal

We were tested all Configuration refer 3GPP TS134 121.
Absolute Level = SG Level- Cable Loss+ Antenna Gain



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			WCDMA	Band V			
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 4233/84	16.6MHz		
1673.2	-49.55	2.80	27.50	-24.85	-13	-11.85	Vertical
1673.2	-49.61	2.80	27.50	-24.91	-13	-11.91	Horizontal
2509.8	-49.03	2.91	27.80	-24.14	-13	-11.14	Vertical
2509.8	-53.21	2.91	27.80	-28.32	-13	-15.32	Horizontal
3346.4	-48.76	4.02	29.87	-22.91	-13	-9.91	Vertical
3346.4	-48.87	4.02	29.87	-23.02	-13	-10.02	Horizontal
Test Results for Channel 4182/836.4MHz							
1672.8	-48.79	2.80	27.48	-24.11	-13	-11.11	Vertical
1672.8	-51.26	2.80	27.48	-26.58	-13	-13.58	Horizontal
2509.2	-52.75	2.91	27.70	-27.96	-13	-14.96	Vertical
2509.2	-52.65	2.91	27.70	-27.86	-13	-14.86	Horizontal
3345.6	-48.94	4.02	29.82	-23.14	-13	-10.14	Vertical
3345.6	-50.86	4.02	29.82	-25.06	-13	-12.06	Horizontal
		Test Res	sults for Cha	nnel 4132/82	26.4MHz		
1652.8	-55.48	2.80	27.42	-30.86	-13	-17.86	Vertical
1652.8	-48.00	2.80	27.42	-23.38	-13	-10.38	Horizontal
2479.2	-52.77	2.91	27.68	-28.00	-13	-15.00	Vertical
2479.2	-54.43	2.91	27.68	-29.66	-13	-16.66	Horizontal
3305.6	-51.57	4.02	29.80	-25.79	-13	-12.79	Vertical
3305.6	-52.98	4.02	29.80	-27.20	-13	-14.20	Horizontal

We were tested all Configuration refer 3GPP TS134 121.
Absolute Level = SG Level- Cable Loss+ Antenna Gain

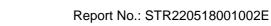




			GSN	1900				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
Test Results for Channel 512/1850.2MHz								
3700.4	-50.34	4.04	33.51	-20.87	-13	-7.87	Vertical	
3700.4	-48.85	4.04	33.51	-19.38	-13	-6.38	Horizontal	
5550.6	-50.25	5.24	35.84	-19.65	-13	-6.65	Vertical	
5550.6	-51.65	5.24	35.84	-21.05	-13	-8.05	Horizontal	
		Test Re	sults for Cha	innel 661/18	80.0MHz			
3760	-50.61	4.04	33.56	-21.09	-13	-8.09	Vertical	
3760	-52.59	4.04	33.56	-23.07	-13	-10.07	Horizontal	
5640	-51.46	5.24	35.91	-20.79	-13	-7.79	Vertical	
5640	-52.16	5.24	35.91	-21.49	-13	-8.49	Horizontal	
		Test Re	sults for Cha	innel 810/19	09.8MHz			
3819.6	-51.54	4.04	34.00	-21.58	-13	-8.58	Vertical	
3819.6	-50.82	4.04	34.00	-20.86	-13	-7.86	Horizontal	
5729.4	-49.20	5.24	36.04	-18.40	-13	-5.40	Vertical	
5729.4	-53.14	5.24	36.04	-22.34	-13	-9.34	Horizontal	

1. We were tested all Configuration refer 3GPP TS134 121.

2. Absolute Level = SG Level- Cable Loss+ Antenna Gain





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			GPR	S 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
Test Results for Channel 512/1850.2MHz							
3700.4	-53.36	4.04	33.51	-23.89	-13	-10.89	Vertical
3700.4	-52.80	4.04	33.51	-23.33	-13	-10.33	Horizontal
5550.6	-53.79	5.24	35.84	-23.19	-13	-10.19	Vertical
5550.6	-52.66	5.24	35.84	-22.06	-13	-9.06	Horizontal
Test Results for Channel 661/1880.0MHz							
3760	-55.83	4.04	33.56	-26.31	-13	-13.31	Vertical
3760	-55.10	4.04	33.56	-25.58	-13	-12.58	Horizontal
5640	-53.90	5.24	35.91	-23.23	-13	-10.23	Vertical
5640	-51.65	5.24	35.91	-20.98	-13	-7.98	Horizontal
		Test Re	sults for Cha	innel 810/19	09.8MHz		
3819.6	-48.60	4.04	34.00	-18.64	-13	-5.64	Vertical
3819.6	-52.03	4.04	34.00	-22.07	-13	-9.07	Horizontal
5729.4	-53.91	5.24	36.04	-23.11	-13	-10.11	Vertical
5729.4	-51.67	5.24	36.04	-20.87	-13	-7.87	Horizontal

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Remark:

We were tested all Configuration refer 3GPP TS134 121.
Absolute Level = SG Level- Cable Loss+ Antenna Gain





			WCDM/	A Band II			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 9262/18	52.4MHz		
3700.8	-54.66	4.04	33.51	-25.19	-13	-12.19	Vertical
3700.8	-52.63	4.04	33.51	-23.16	-13	-10.16	Horizonta
5551.2	-52.62	5.24	35.84	-22.02	-13	-9.02	Vertical
5551.2	-50.39	5.24	35.84	-19.79	-13	-6.79	Horizonta
		Test Re	sults for Cha	annel 9400/1	880MHz		
3760	-53.43	4.04	33.56	-23.91	-13	-10.91	Vertical
3760	-50.47	4.04	33.56	-20.95	-13	-7.95	Horizonta
5640	-50.94	5.24	35.91	-20.27	-13	-7.27	Vertical
5640	-51.68	5.24	35.91	-21.01	-13	-8.01	Horizonta
		Test Res	sults for Cha	nnel 9538/19	07.6MHz		
3819.2	-53.50	4.04	34.00	-23.54	-13	-10.54	Vertical
3819.2	-51.18	4.04	34.00	-21.22	-13	-8.22	Horizonta
5728.8	-51.89	5.24	36.04	-21.09	-13	-8.09	Vertical
5728.8	-52.06	5.24	36.04	-21.26	-13	-8.26	Horizonta

We were tested all Configuration refer 3GPP TS134 121.
Absolute Level = SG Level- Cable Loss+ Antenna Gain







7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements Please refer to the section 7.1.4 in this report.

7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.





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

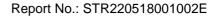
Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

	, , ,	
	GSM/GPRS	UMTS band/ CDMA2000
Span	500KHz	10MHz
RBW	10KHz	300KHz
VBW	30KHz	1MHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100





7.2.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V	Test By:	Mary Hu

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Effective Radiated Power

	Radiated Power (ERP) for GSM850								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	31.32	2.11	5.30	2.15	32.36	1.72187		
836.4	Н	30.19	2.13	5.30	2.15	31.21	1.32130		
848.8	Н	29.67	2.13	5.30	2.15	30.69	1.17220		
824.2	V	30.54	2.11	5.30	2.15	31.58	1.43880		
836.4	V	30.24	2.13	5.30	2.15	31.26	1.33660		
848.8	V	29.56	2.13	5.30	2.15	30.58	1.14288		

	Radiated Power (ERP) for GPRS850								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	30.99	2.11	5.30	2.15	32.03	1.59588		
836.4	Н	29.99	2.13	5.30	2.15	31.01	1.26183		
848.8	Н	29.12	2.13	5.30	2.15	30.14	1.03276		
824.2	V	30.22	2.11	5.30	2.15	31.26	1.33660		
836.4	V	29.12	2.13	5.30	2.15	30.14	1.03276		
848.8	V	29.09	2.13	5.30	2.15	30.11	1.02565		





	Radiated Power (ERP) for UMTS band V							
		Radiated I	Power (ER	P) for UMTS	band V			
		SG		Ga				
Frequency	Polarization	Level	Pcl	Antenna Gain	Correction	ERP	ERP	
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)	
826.4	Н	21.65	2.11	5.30	2.15	22.69	0.185780	
836.4	Н	20.43	2.13	5.30	2.15	21.45	0.139637	
846.6	Н	20.68	2.13	5.30	2.15	21.70	0.147911	
826.4	V	20.50	2.11	5.30	2.15	21.54	0.142561	
836.4	V	20.67	2.13	5.30	2.15	21.69	0.147571	
846.6	V	20.59	2.13	5.30	2.15	21.61	0.144877	

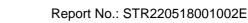
	Radiated Power (E.I.R.P) for GSM1900							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1850.2	Н	24.45	3.76	8.90	28.83	0.76384		
1880	Н	24.32	3.91	8.90	28.59	0.72277		
1909.8	Н	23.50	3.93	8.90	27.86	0.61094		
1850.2	V	22.99	3.76	8.90	27.56	0.57016		
1880	V	22.87	3.91	8.90	27.32	0.53951		
1909.8	V	23.05	3.93	8.90	27.46	0.55719		

	Radiated Power (E.I.R.P) for GPRS1900							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1850.2	Н	25.47	3.76	8.90	29.68	0.92897		
1880	Н	22.90	3.91	8.90	27.35	0.54325		
1909.8	Н	22.68	3.93	8.90	27.13	0.51642		
1850.2	V	22.93	3.76	8.90	27.51	0.56364		
1880	V	22.67	3.91	8.90	27.14	0.51761		
1909.8	V	23.19	3.93	8.90	27.59	0.57412		





	Radiated Power (E.I.R.P) for UMTS band II							
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1852.4	Н	17.22	3.76	8.90	22.36	0.172187		
1880	Н	16.27	3.91	8.90	21.26	0.133660		
1907.6	Н	16.38	3.93	8.90	21.35	0.136458		
1852.4	V	16.07	3.76	8.90	21.21	0.132130		
1880	V	16.25	3.91	8.90	21.24	0.133045		
1907.6	V	16.72	3.93	8.90	21.69	0.147571		







7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2)) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW \geq 3 × RBW.

Number of points in sweep $\ge 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\le \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation. Measure and record the results in the test report.



7.3.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	120 C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V,	Test By:	Mary Hu

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Test data reference attachment





7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMW500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

7.4.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V	Test By:	Mary Hu
Results: PASS			





Frequ	Frequency Error Against Voltage for GSM 850 band(Mid CH)						
Voltage (V)	Frequency Error (ppm)						
3.4	14	0.01674					
3.7	12	0.01435					
4.2	19	0.02272					

Frequency Error Against Temperature for GSM 850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	10	0.01196	
-20	18	0.02152	
-10	21	0.02511	
0	6	0.00717	
10	11	0.01315	
20	6	0.00717	
30	21	0.02511	
40	22	0.02630	
50	1	0.00120	

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)Frequency Error (Hz)Frequency Error (ppm)			
3.4 17 0.02033		0.02033	
3.7 12 0.01435		0.01435	
4.2 15 0.01793			

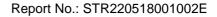
Frequency Error Against Temperature for GPRS850 band(Mid CH)				
Temperature (°C)	Frequency Error (Hz)	rror (Hz) Frequency Error (ppm)		
-30	16	0.01913		
-20	6	0.00717		
-10	20	0.02391		
0	23	0.02750		
10	13	0.01554		
20	12	0.01435		
30	7	0.00837		
40	5	0.00598		
50	8	0.00956		

Note:

1. Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V

2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





Frequency Error Against Voltage for UMTS band V(Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 12		0.01434	
3.7 17 0.02032		0.02032	
4.2 18 0.02152			

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Frequency Error Against Temperature for UMTS band V (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	20	0.02391	
-20	18	0.02152	
-10	15	0.01793	
0	23	0.02749	
10	16	0.01913	
20	15	0.01793	
30	21	0.02510	
40	22	0.02630	
50	5	0.00598	

Note:

1. Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V

2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





Frequency Error Against Voltage for PCS 1900 band (Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 15 0.00798		0.00798	
3.7 10 0.00532		0.00532	
4.2 9 0.00479			

Frequency Error Against Temperature for PCS 1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	22	0.01170	
-20	14	0.00745	
-10	1	0.00053	
0	17	0.00904	
10	10	0.00532	
20	12	0.00638	
30	15	0.00798	
40	19	0.01011	
50	16	0.00851	

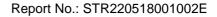
Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 19 0.01011		0.01011	
3.7 10 0.00532		0.00532	
4.2 5 0.00266		0.00266	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)				
Temperature (℃)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	22	0.01170		
-20	14	0.00745		
-10	1	0.00053		
0	17	0.00904		
10	10	0.00532		
20	12	0.00638		
30	15	0.00798		
40	19	0.01011		
50	16	0.00851		

Note:

- 1. Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





Frequency Error Against Voltage for UMTS band II (Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 18		0.00957	
3.7 10 0.00532		0.00532	
4.2 21 0.01117			

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Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	22	0.01170	
-20	12	0.00638	
-10	1	0.00053	
0	25	0.01330	
10	17	0.00904	
20	19	0.01011	
30	6	0.00319	
40	25	0.01330	
50	18	0.00957	

Note:

1. Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V

2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to Subclause 5.2.3.4 of ANSI C63.26-2015 and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;

c) Set the number of counts to a value that stabilizes the measured CCDF curve;

d) Set the measurement interval as follows:

1) for continuous transmissions, set to 1 ms,

2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.





7.5.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V,	Test By:	Mary Hu
Results: PASS			

The Test data reference attachment:





7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC KDB 971168 D01 Section 4

7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



7.6.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G	
Temperature:	20 °C	Relative Humidity:	48%	
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V,	Test By:	Mary Hu	
Results: PASS				

ACCREDITED Certificate #4298.01

The Test data reference attachment:



7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

Certificate #4298.01

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

7.7.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V	Test By:	Mary Hu
Results: PASS			

The Test data reference attachment:



7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

NTEK 北测

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10log(P)] (dB)$$

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.



7.8.6 Test Results

EUT:	3G FLIP PHONE	Model No.:	F6G
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS 850, GSM/GPRS 1900, UMTS band II/ UMTS band V	Test By:	Mary Hu
Results: PASS			

ACCREDITED Certificate #4298.01

The Test data reference attachment:

END OF REPORT