FCC TEST REPORT

For

SHENZHEN NEWDELL SCIENCE & TECHNOLOGY CO., LTD

Smart Watch

Model No.: SW151G

Additional model No.: NW08, NW09

Prepared for SHENZHEN NEWDELL SCIENCE & TECHNOLOGY CO., LTD

Address 4/F, 3# BLD., NO. 139, ZHONGXING RD., BANTIAN.

LONGGANG DISTRICT, SHENZHEN, Guangdong Province,

China

Prepared by Shenzhen LCS Compliance Testing Laboratory Ltd.

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Mail webmaster@LCS-cert.com

Date of receipt of test sample : September 08, 2015

Number of tested samples

Serial number Prototype

Date of Test September 08, 2015 – September 16, 2015

Date of Report September 16, 2015

FCC TEST REPORT

FCC CFR 47 PART 22 SUBPART H AND PART 24 SUBPART E

Report Reference No.: LCS1509160845E

Date of Issue: September 16, 2015

Testing Laboratory Name......: Shenzhen LCS Compliance Testing Laboratory Ltd.

Bao'an District, Shenzhen, Guangdong, China

Full application of Harmonised standards

Testing Location/ Procedure......: Partial application of Harmonised standards \square

Other standard testing method \Box

Applicant's Name...... SHENZHEN NEWDELL SCIENCE & TECHNOLOGY

CO., LTD

4/F, 3# BLD., NO. 139, ZHONGXING RD., BANTIAN,

Address: LONGGANG DISTRICT, SHENZHEN, Guangdong Province,

China

Test Specification

Standard FCC CFR 47 PART 22 SUBPART H

AND PART 24 SUBPART E

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.: : Smart Watch

Trade Mark: Newsday

Model/ Type reference.....: SW151G

Ratings: DC 3.7V, 300 mAH; Charging voltage: DC 5V

Result: Positive

Compiled by: Supervised by:

Approved by:

Jacky Li/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No.: LCS1509160845E

September 16, 2015

Date of issue

Type / Model.....: : SW151G

EUT.....: Smart Watch

Applicant...... SHENZHEN NEWDELL SCIENCE & TECHNOLOGY CO.,

Address.....: 4/F, 3# BLD., NO. 139, ZHONGXING RD., BANTIAN,

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Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Smart Watch

Test Model : SW151G

Power Supply : DC 3.7V, 300 mAH; Charging voltage: DC 5V

Support Band : UMTS FDD Band II (U.S.-Band)

UMTS FDD Band V (U.S.-Band)

GSM 850: 824.2MHz ~ 848.8MHz

Uplink

PCS 1900: 1850.2MHz ~ 1909.8MHz

GSM 850: 869.2MHz ~ 893.8MHz

Downlink

PCS 1900: 1930.2MHz ~ 1989.8MHz

Type Of Modulation : GSM/GPRS:GMSK

Antenna Description : Internal Antenna, -4.6dBi for GSM850; -0.9dBi for PCS1900

Software Version : V1.0

Hardware Version : L9_MBPCB_V2.0

Additional models No.		
NW08	NW09	

Remark: PCB board, structure and internal of these model(s) are the same, So no additiona l models were tested.

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB	1	

1.4. Description of Test Facility

Site Description EMC Lab.

: CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1. VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5. Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
Radiation Uncertainty		30MHz~200MHz	±2.96dB	(1)
Radiation Officertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
Conduction Uncertainty		150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7. Test environment

All tests were performed under the following environmental conditions:

Condition	Minimum value	Maximum value	
Barometric pressure	86kPa	106kPa	
Temperature	15 ℃	30 ℃	
Relative Humidity	20 %	75 %	
Power supply range	±5% of rated voltages		

2. TEST METHODOLOGY

All tests and measurements indicated in this document were performed in accordance with FCC CFR 47 part 2, FCC CFR 47 part 22 subpart H and part 24 subpart E.

Applicable Standards: TIA/EIA603-D, ANSI C63.4-2003. The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. Objective

This type approval report is prepared on behalf of **SHENZHEN NEWDELL SCIENCE & TECHNOLOGY CO., LTD** in accordance with FCC CFR 47 part 2, FCC CFR 47 part 22 subpart H and part 24 subpart E.

The objective is to determine compliance with FCC rules for RF output power, modulation characteristics, occupied bandwidth, spurious emissions at antenna terminal, field strength of spurious radiation, frequency stability, band edge, and conducted and radiated margin.

2.3. General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of TIA/EIA603-D, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of TIA/EIA603-D.

2.4. Test Mode

GSM / GPRS/EGRS 850: Channel Low (CH128), Channel Mid (CH190) and Channel High (CH251) were chosen for full testing. The test PCL(Power Control Level)/Class is level 5/class 3(For GPRS).

PCS / GPRS/ EGRS 1900: Channel Low (CH512), Channel Mid (CH661) and Channel High (CH810) were chosen for full testing. The test PCL(Power Control Level)/Class is level 0/class 3(For GPRS).

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

For the field strength of spurious emission, the worst emission was found in erect position (Y axis) for GSM /GPRS 850, erect position (Y axis) for PCS /GPRS1900 and the worst case was recorded.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The EUT had been tested under operating condition. EUT staying in continuous transmitting mode.

3.2. EUT Exercise Software

N/A.

3.3. Special Accessories

N/A.

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: 47 CFR FCC Part 22 Subpart H, Part 24 Subpart E					
FCC Rules	Descri	ption of Test	Result		
\$2.1046, \$22.913 /	DE Output Down	Conducted Output Power	Compliant		
§24.232	RF Output Power	Radiated Output Power	Compliant		
§2.1049, §22.905	Occupi	ed Bandwidth	Compliant		
§2.917, §24.238	Оссирі	eu Danuwium	Compilant		
§2.1053	Spurious P	adiated Emissions	Compliant		
§2.917, §24.238	Spurious K	Compilant			
§2.1051	Spurious Emissions at Antenna Terminals		Compliant		
§2.917, §24.238	Spurious Emissio	Compilant			
§2.917, §24.238	Band Edge		Compliant		
§2.1055	Frequency Stability		Compliant		
§22.355, §24.235	Treque	they Stability	Compilant		
§15.107 / §15.207	AC power line conducted emissions		Compliant		
§2.1047	Modulatio	Compliant			
§1.1310, §2.1091	RF Expos	Compliant			
\$24.232(d)	Peak-to-	-Average Ratio	Compliant		

5. TEST RESULT

5.1. RF OUTPUT POWER

5.1.1. Standard Applicable

According to FCC §2.1046 and §22.913, the maximum effective radiated power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC §2.1046 and §22.232, mobile and portable stations are limited to 2 Watts and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

5.1.2. Measuring Instruments

Please refer to section 6 of equipments list in this report.

5.1.3. Test Procedures

Conducted method:



Radiated method:

TIA 603-D section 2.2.17

5.1.4. Test Results

Temperature	25°C	Humidity	60%
ATM Pressure:	101.4kPa	Test Engineer	Jacky

Conducted Power:

Mode	Channel	Frequency	Output Power	Limit
	• · · · · · · · · · · · · · · · · · · ·	(MHz)	(Average, dBm)	(dBm)
	128	824.2	32.90	38.45
GSM 850	190	836.6	32.81	38.45
	251	848.8	32.92	38.45
ODDC 050	128	824.2	32.22	38.45
GPRS 850	190	836.6	32.16	38.45
(Slot 1)	251	848.8	32.25	38.45
ODDC 050	128	824.2	31.23	38.45
GPRS 850	190	836.6	31.11	38.45
(Slot 2)	251	848.8	31.24	38.45
ODDC 050	128	824.2	29.13	38.45
GPRS 850	190	836.6	29.10	38.45
(Slot 3)	251	848.8	29.17	38.45
0000 050	128	824.2	27.34	38.45
GPRS 850	190	836.6	27.31	38.45
(Slot 4)	251	848.8	27.33	38.45

Mode	Channel	Frequency	Output Power	Limit
	Gnamer	(MHz)	(Average, dBm)	(dBm)
	512	1850.2	30.45	33
PCS 1900	661	1880.0	30.44	33
	810	1909.8	30.45	33
CDDC 4000	512	1850.2	29.34	33
GPRS 1900	661	1880.0	29.35	33
(Slot 1)	810	1909.8	29.31	33
CDDC 4000	512	1850.2	28.67	33
GPRS 1900 - (Slot 2) -	661	1880.0	28.71	33
	810	1909.8	28.73	33
CDDC 4000	512	1850.2	26.55	33
GPRS 1900	661	1880.0	26.51	33
(Slot 3)	810	1909.8	26.58	33
CDDC 4000	512	1850.2	24.41	33
GPRS 1900	661	1880.0	24.39	33
(Slot 4)	810	1909.8	24.50	33

Radiated Power:

The worst test data as follow:

			Test Result		
Mode	Channel	Frequency (MHz)	Max. Peak ERP (dBm)	Polarization	Limit (dBm)
	128	824.2	28.22	Н	38.45
GSM 850	190	836.6	28.13	Н	38.45
	251	848.8	28.29	Н	38.45

			Test Result		
Mode	Channel	Frequency (MHz)	Max. Peak EIRP (dBm)	Polarization	Limit (dBm)
	512	1850.2	29.44	Н	33
PCS 1900	661	1880.0	29.37	Н	33
	810	1909.8	29.48	Н	33

NOTE:All conditions have been tested and we only record the worst results in each bands.

5.2. OCCUPIED BANDWIDTH

5.2.1. Standard Applicable

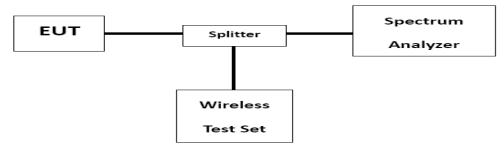
FCC §2.1049, §22.917, §22.905 and §24.238.

5.2.2. Measuring Instruments

Please refer to section 6 of equipments list in this report.

5.2.3. Test Procedures

The RF output of the transmitter was connected to the wireless communication tester and spectrum analyzer through attenuation.



The -26dB & 99% bandwidth was recorded.

5.2.4. Test Results

Temperature	25°C	Humidity	60%
ATM Pressure:	101.4kPa	Test Engineer	Jacky

The worst test data as follow:

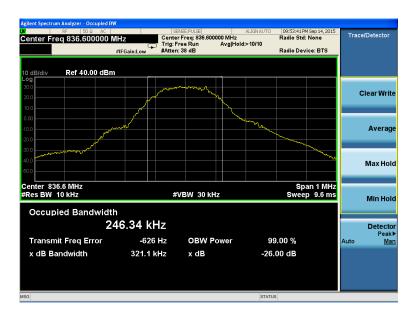
Mode	Channel	Frequency (MHz)	Emission Bandwidth (-26dBc) (kHz)	Occupied Bandwidth (99%) (kHz)
	128	824.2	312.70	239.32
GSM 850	190	836.6	321.10	246.34
	251	848.8	320.50	244.52

Mode	Channel	Frequency (MHz)	Emission Bandwidth (-26dBc) (kHz)	Occupied Bandwidth (99%) (kHz)
	512	1850.2	309.40	241.96
PCS 1900	661	1880.0	325.70	247.81
	810	1909.8	318.60	243.26

NOTE:All conditions have been tested and we only record the worst results in each bands.

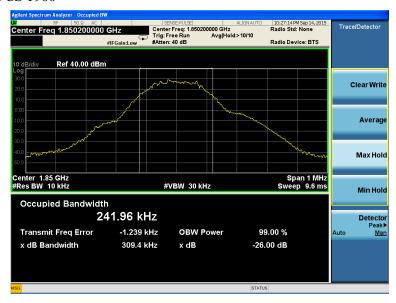
Test Plots For GSM 850



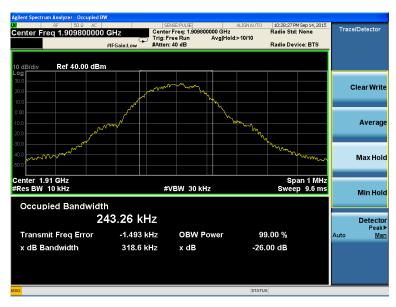




Test Plots For PCS 1900







5.3. SPURIOUS AND HARMONIC EMISSION AT ANTENNA TERMINAL

5.3.1. Standard Applicable

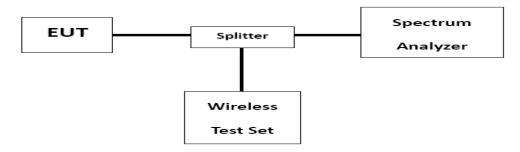
FCC §2.1051, §22.917 and §24.238.

5.3.2. Measuring Instruments

Please refer to section 6 of equipments list in this report.

5.3.3. Test Procedures

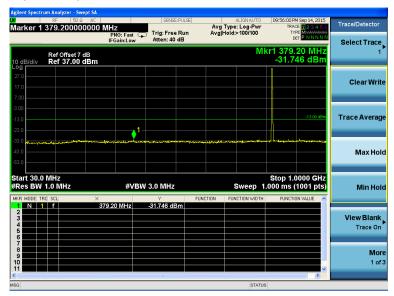
The RF output of the transmitter was connected to the wireless communication tester and spectrum analyzer through attenuation.

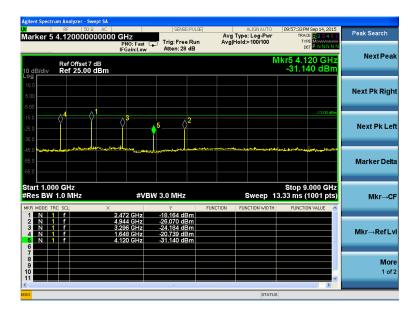


5.3.4. Test Results

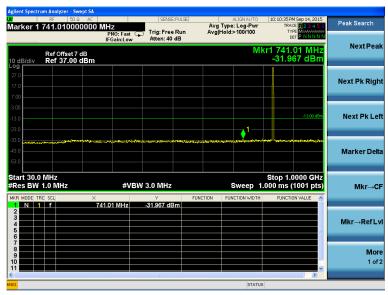
Please refer to the following plots.

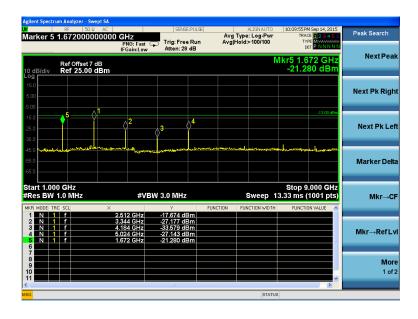
Transmitting Mode, CH 128, GSM 850



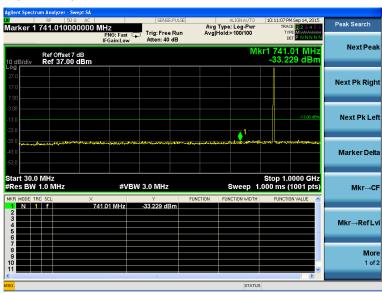


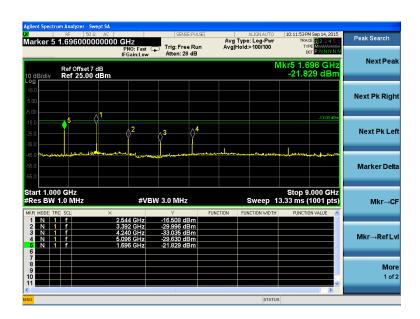
Transmitting Mode, CH 190, GSM 850



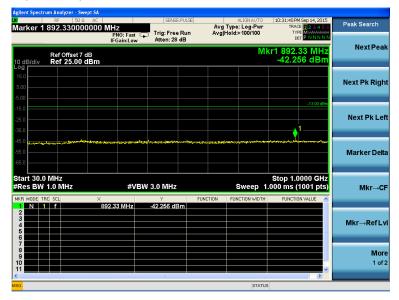


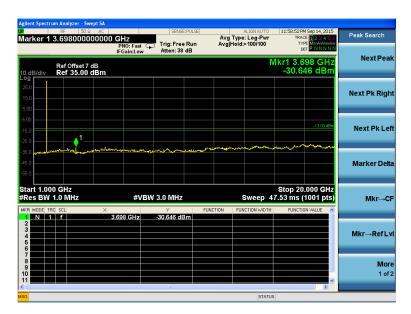
Transmitting Mode, CH 251, GSM 850



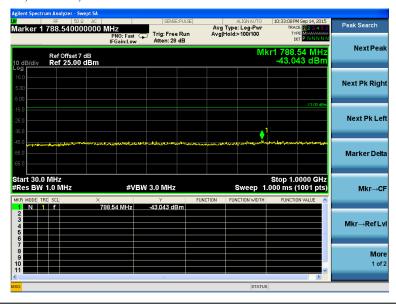


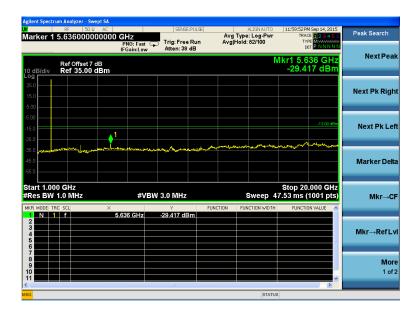
Transmitting Mode, CH 512, PCS 1900



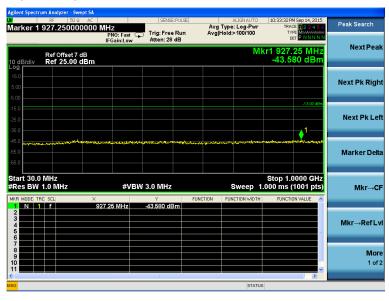


Transmitting Mode, CH 661, PCS 1900





Transmitting Mode, CH 810, PCS 1900





Test Result of Band Edge Emissions, GSM 850





Test Result of Band Edge Emissions, PCS 1900





NOTE:All conditions have been tested and we only record the worst results in each bands.

5.4. RADIATED SPURIOUS EMISSIONS MEASUREMENT

5.4.1. Standard Applicable

FCC §2.1053, §22.917 and §24.238.

5.4.2. Measuring Instruments

Please refer to section 6 of equipments list in this report.

5.4.3. Test Procedures

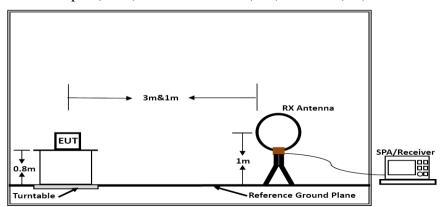
The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

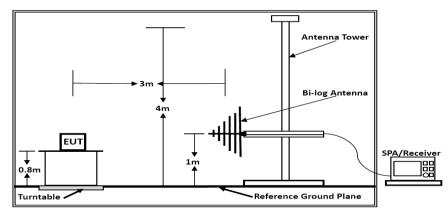
The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable (dB)

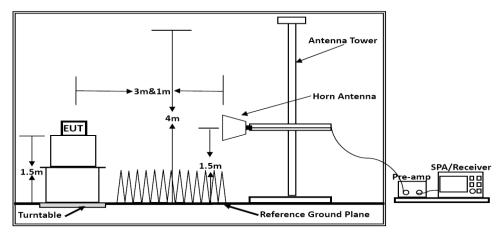
EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable (dB)



Below 30MHz



Below 1GHz



Above 1GHz

5.4.4. Test Results

The worst test data as follow:

30MHz~10GHz

The Worst Test Result For GSM 850, CH 128						
Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Result	Polarity		
935.55	-72.56	-13		Н		
1648.41	-19.22	-13	Pass			
2472.05	-22.03	-13				
935.55	-73.14	-13				
1648.41	-21.74	-13	Pass	V		
2472.05	-25.45	-13				

The Worst Test Result For GSM 850, CH 190						
Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Result	Polarity		
935.55	-72.44	-13				
1672.23	-19.46	-13	Pass	Н		
2508.65	-22.27	-13				
935.55	-73.02	-13				
1672.23	-21.36	-13	Pass	V		
2508.65	-25.18	-13				

The Worst Test Result For GSM 850, CH 251						
Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Result	Polarity		
935.55	-72.62	-13		Н		
1697.47	-19.74	-13	Pass			
2546.12	-22.58	-13				
935.55	-73.42	-13				
1697.47	-21.36	-13	Pass	V		
2546.12	-25.14	-13				

30MHz~20GHz

The Worst Test Result For PCS 1900, CH 512						
Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Result	Polarity		
935.55	-72.18	-13		Н		
3700.69	-24.23	-13	Pass			
5550.71	-27.39	-13				
935.55	-73.33	-13				
3700.69	-25.86	-13	Pass	V		
5550.71	-29.12	-13				

The Worst Test Result For PCS 1900, CH 661						
Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Result	Polarity		
935.55	-72.47	-13				
3760.42	-24.76	-13	Pass	Н		
5640.31	-27.81	-13				
935.55	-73.63	-13				
3760.42	-26.69	-13	Pass	V		
5640.31	-29.58	-13				

The Worst Test Result For PCS 1900, CH 810						
Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Result	Polarity		
935.55	-72.26	-13				
3819.46	-24.11	-13	Pass	Н		
5729.75	-27.57	-13				
935.55	-73.54	-13				
3819.46	-26.64	-13	Pass	V		
5729.75	-29.36	-13				

NOTE: The result below 30MHz is too low, there is only base environmental noise. We Only record the worst results above 30MHz.

5.5.MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

FCC ID: 2AFWKNW09

5.6. FREQUENCY STABILITY OVER TEMPERATURE AND VOLTAGE

VARIATIONS

5.6.1. Standard Applicable

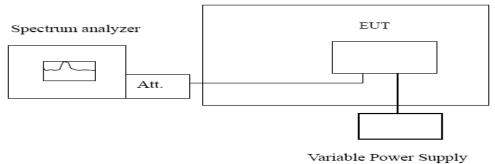
FCC §2.1055, §22.355 and §24.235, Frequency Tolerance: 2.5ppm

5.6.2. Test Procedures

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency.

Turn EUT off and set the chamber temperature to -30° C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10° C increased per stage until the highest temperature of $+50^{\circ}$ C reached.

Temperature Chamber



5.6.3. Test Results

Pass

The worst test data as follow:

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz							
Power supplied (Vdc)	Temperature (°C)	F	requency error	Limit (ppm)	Result		
11	· · · · · · · · · · · · · · · · · · ·	Hz	ppm	- 41 /			
	-30	5	0.0060				
	-20	6	0. 0059				
	-10	4	0.0048				
	0	2	0.0024				
3.70	10	6	0.0059	2.5	Pass		
	20	5	0.0060				
	30	7	0.0083		Pass Result		
	40	4	0.0048	_			
	50	2	0.0024				
R	Reference Frequency: P	CS1900 Mid	dle channel=661 channel=	=1880MHz			
Power supplied (Vdc)	Temperature (°C)		requency error		Result		
		Hz	ppm				
	-30	6	0.0032				
	-20	2	0.0011				
	-10	4	0.0022				
	0	7	0.0037				
3.70	10	6	0.0032	2.5	Pass		
	20	5	0.0026				
	30	3	0.0016				
	40	4	0.0022				
	50	3	0.0016				

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz						
Temperature (°C)	Power supplied Frequency error		Frequency error		Result	
	(Vdc)	Hz	ppm	Limit (ppm)		
	4.25	5	0. 0059			
25	3.70	2	0. 0024	2.5	Pass	
	3.40	4	0. 0048			
F	Reference Frequency: P	CS1900 Middle cha	nnel=661 channel=	-1880MHz		
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result	
, T	(Vdc)	Hz	ppm	(PP)		
	4.25	3	0. 0016			
25	3.70	2	0. 0011	2.5	Pass	
	3.40	6	0. 0032			

NOTE: All conditions have been tested and we only record the worst results in each bands.

5.8. PEAK-TO-AVERAGE RATIO

5.8.1. Standard Applicable

According to FCC §2.1046 and §24.232(d), the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.8.2. Measuring Instruments

Please refer to section 6 of equipments list in this report.

5.8.3. Test Procedures

The following steps outline the procedure used to measure the Peak-to-Average Ratio from the EUT.

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. For GSM/EGPRS operating modes:
- a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
- b. Set EUT in maximum power output, and triggered the burst signal.
- c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
- 3. For UMTS operating modes:
- a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

5.8.4. Test Results

Modes	PCS 1900				
Channel	512	661	810		
Chamie	Low	Mid	High		
Frequency(MHz)	1850.2	1880	1909.8		
Peak-To-Average Ratio (dB)	0.24	0.55	0.43		

6. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	June 18, 2015	June 17, 2016
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 18, 2015	July 17, 2016
Signal analyzer	Agilent	N9020A	MY50510140	9kHz~26.5GHz	October 27, 2014	October 26, 2015
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 25, 2015	June 24, 2016
LISN	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 25, 2015	June 24, 2016
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 25, 2015	June 24, 2016
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 25, 2015	June 24, 2016
3m Semi Anechoic	SIDT	SAC-3M	03CH03-HY	30M-1GHz	June 18, 2015	June 17, 2016
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	June 16, 2015	June 15, 2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16, 2015	July 15, 2016
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16, 2015	July 15, 2016
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 16, 2015	June 15, 2016
Loop Antenna	R&S	HFH2-Z2	860024/003	9k-30MHz	June 16, 2015	June 15, 2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 16, 2015	June 15, 2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-475	30MHz-1GHz	June 16, 2015	June 15, 2016
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 16, 2015	June 15, 2016
Horn Antenna	SCHWARZBECK	ВВНА9170	BBHA9170154	15GHz-40GHz	June 16, 2015	June 15, 2016
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 25, 2015	June 24, 2016
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03СН03-НҮ	1GHz-40GHz	June 25, 2015	June 24, 2016
Spectrum Meter	R&S	FSP 30	100023	9kHz-30GHz	July 16, 2015	July 15, 2016
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18, 2015	June 17, 2016
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18, 2015	June 17, 2016
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18, 2015	June 17, 2016
AC Power Source	НРС	HPA-500E	HPA-9100024	AC 0~300V	June 18, 2015	June 17, 2016
DC power Soure	GW	GPC-6030D	C671845	DC 1V-60V	June 18, 2015	June 17, 2016
Temp. and	Giant Force	GTH-225-20-S	MAB0103-00	N/A	June 18, 2015	June 17, 2016
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 25, 2015	June 24, 2016
RF CABLE-2m	JYE Bao	RG142	CB)35-2m	20MHz-1GHz	June 25, 2015	June 24, 2016
Vector signal	R&S	SMU200A	102098	100kHz~6GHz	June 18, 2015	June 17, 2016
Signal Generator	R&S	SMR40	10016	10MHz~40GHz	July 16, 2015	July 15, 2016

Universal Radio R&S CMU200 112012 N/A July 18, 2015 July 17, 2016	HENZHEN LCS CO	OMPLIANCE TEST	ING LABORATORY	LTD. FO	CC ID: 2AFWKNW09	Report No.	: LCS1509160845E
	Universal Radio	R&S	CMU200	112012	N/A	July 18, 2015	July 17, 2016
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