

FCC ID:WN7AMC000-007

FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Americhip Inc.

GSM Controller

Model No.: AMC000-007

FCC ID: WN7AMC000-007

Prepared for: Americhip Inc.

Room 212, Block 2, Nanhai Ecool No.6 Xing Hua Road,

She Kou, Shenzhen, China

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F14029

Date of Test : Jan.11, 2014

Date of Report : Apr.30, 2014



FCC ID:WN7AMC000-007

TABLE OF CONTENTS

Des	scription	Page
1.	SUMMARY OF STANDARDS AND RESULTS	1-1
	1.1. Description of Standards and Results	1-1
2.	GENERAL INFORMATION	2-1
	2.1. Description of Device (EUT)	2-1
	2.2. Tested Supporting System Details	
	2.3. Block diagram of connection between the EUT and simulators	
	2.4. Test Facility	2-3
	2.5. Measurement Uncertainty (95% confidence levels, k=2)	2-3
3.	EFFECTIVE ISOTROPIC RADIATED POWER	3-1
	3.1. Test Equipment	3-1
	3.1. Limit	
	3.2. Test Procedure:	3-2
	3.3. Test Results	
4.	OUT OF BAND EMISSIONS AT ANTENNA TERMINALS AND BAND	EDGE 4-1
	4.1. Test Equipment	4-1
	4.2. Limit	
	4.3. Test Procedure	
	4.4. Test result	4-1
5.	99% & 26dB Occupied Bandwidth Test	5-1
	5.1. Test Equipment	5-1
	5.2. Test Procedure	5-1
	5.3. Test Results	5-1
6.	RF POWER OUTPUT TEST	6-1
	6.1. Test Equipment	6-1
	6.2. Limit	6-1
	6.3. Test Procedure	6-1
	6.4. Test Results	6-2
7.	FIELD STRENGTH OF RADIATED SPURIOUS EMISSIONS	7-1
	7.1. Test Equipment	7-1
	7.2. Limit	7-2
	7.3. Test Procedure	
	7.4. Test Results	7-1
8.	FREQUENCY STABILITY V.S. TEMPERATURE AND VOLTAGE	8-1
	8.1. Test Equipment	8-1
	8.1. Limit	
	8.2. Test procedure:	8-2
9.	DEVIATION TO TEST SPECIFICATIONS	9-1
10.	PHOTOGRAPH OF TEST	10-1
11.	PHOTOS OF THE EUT	11-3



FCC ID: WN7AMC000-007

TEST REPORT CERTIFICATION

Applicant : Americhip Inc.

Manufacturer : Americhip Inc.

EUT Description : GSM Controller

FCC ID : WN7AMC000-007

(A) MODEL NO. : AMC000-007

(B) SERIAL NO. : N/A

(C) POWER SUPPLY: DC 3.7V; DC 5V

(D) TEST VOLTAGE: DC 3.7V

Tested for comply with: FCC part 2, 22H & 24E

Date of Test:

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC part 2, 22H & 24E requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements.

This Report is made under FCC part 2, 22H & 24E. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Report of date:

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Jan.11, 2014

Prepared by:	Sdēma Li	Reviewed by :	42	
	Selina Liu / Super		Sunny Lu / Assistant Manage 有限公司 (Shenzhen) Co., Ltd. 字 身 用 章	er
		Stamp only for EMC	Dept. Report	

Signature:

Approved & Authorized Signer:

David Jin / Manager

Apr.30, 2014



FCC ID: WN7AMC000-007 page 1-1

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION					
Description of Test Item	Standard	Results			
	2.1046(a)				
Effective Isotropic Radiated Power	22.913(a)	PASS			
	24.232(b)				
Out of Bould Fusionisms of	2.1051				
Out of Band Emissions at antenna Terminals and Band Edge	22.917(a)	PASS			
antenna Terminais and Dand Edge	24.238(a)				
99% & 26dB Occupied Bandwidth	2.1049(h)	PASS			
	2.1046(a)				
RF Output Power	22.913(a)	PASS			
	24.232(b)				
	2.1053				
Field Strength of Spurious Emissions	22.917(a)	PASS			
	24.238(a)				
Frequency Stability vs.	2 1055	DACC			
Temperature and Voltage	2.1055	PASS			



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:WN7AMC000-007 page 2-1

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product Name : GSM Controller

Model Number : AMC000-007

FCC ID : WN7AMC000-007

Operating Frequency : GSM 850: 824-849MHz PCS 1900: 1850-1910MHz

Antenna Assembly Gain

GSM :Integrated PCB Antenna, -4.1dBi

: PCS I | 1 PCB Antenna | 0.4 PCB | 1 PCB Antenna | 0.4 PCB | 1 PCB Antenna | 0.4 PCB | 1 PCB | 1

PCS: Integrated PCB Antenna, -0.4dBi

Applicant : Americhip Inc.

Room 212, Block 2, Nanhai Ecool No.6 Xing Hua Road,

She Kou, Shenzhen, China

Manufacturer : Americhip Inc.

Room 212, Block 2, Nanhai Ecool No.6 Xing Hua Road,

She Kou, Shenzhen, China

Date of Test : Jan.11, 2014

Date of Receipt : Jan.10, 2013

Sample Type : Prototype production

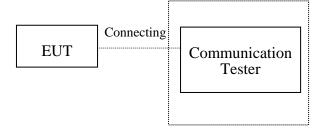


FCC ID: WN7AMC000-007 page 2-2

2.2.Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Wireless Communication Tester		Agilent	E5515C	GB44300243	

2.3.Block diagram of connection between the EUT and simulators



Outside the Chamber

(EUT: GSM Controller)



2-3 FCC ID:WN7AMC000-007

2.4. Test Facility

Site Description

Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Name of Firm

Science & Industrial Park, Nantou,

Shenzhen, Guangdong, China

3m Anechoic Chamber

Certificated by FCC, USA Registration Number: 90454

Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber

Certificated by FCC, USA Registration Number: 794232

Valid Date: Dec.31, 2015

Certificated by Industry Canada EMC Lab.

Registration Number: IC 5183A-1

Valid Date: Jun.13, 2014

Certificated by DAkkS, Germany Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA

NVLAP Code: 200372-0 Valid Date: Mar.31, 2014

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty		
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB		
Uncertainty for Conduction Spurious emission test	2.00 dB		
Uncertainty for Output power test	0.73 dB		
Uncertainty for Bandwidth test	83 kHz		
Uncertainty for DC power test	0.038 %		
Uncertainty for test site temperature and	0.6°C		
humidity	3%		



FCC ID:WN7AMC000-007 page 3-1

3. EFFECTIVE ISOTROPIC RADIATED POWER

3.1.Test Equipment

		1	T		1	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1Year
3.	Signal Generator	HP	83732B	VS34490501	May.08, 13	1 Year
4.	Power meter	Anritsu	ML2487A	6K00002472	May.08, 13	1Year
5.	Power sensor	Anritsu	MA2491A	0033005	May.08, 13	1Year
6.	Attenuator(10dB)	Agilent	8491A	MY39264375	May.08, 13	1 Year
7.	Attenuator(20dB)	Agilent	8491B	MY39262165	May.08, 13	1 Year
8.	Universal Radio Communication Tester	R&S	CMU200	117194	Oct. 31,13	1 Year
9.	Network Analyzer	Agilent	E5071B	MY42403549	May.08, 13	1 Year
10.	Bluetooth Test set	Agilent	MT8852B	6K00005966	May.18, 13	1 Year
11.	Wireless Communication Tester	Agilent	E5515C	GB44300243	May.18. 13	1 Year
12.	DC Power supply	King	DPS-1303D	821956	N/A	N/A
13.	PreAmplifier	Agilent	8449B	3008A02495	May.08, 13	1 Year
14.	PreAmplifier	Agilent	8447D	2944A11159	May.08, 13	1Year
15.	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
16.	Bilog Antenna	Schaffner	CBL6111C	2598	Mar.14, 13	1 Year
17.	Power divider	Mini-Circuits	ZFRSC-183-S+	572800942	N/A	N/A
18.	Power divider	Mini-Circuits	ZA3PD-4-S+	347100912	N/A	N/A
19.	Power divider	Mini-Circuits	ZA4PD-4-S+	544000937	N/A	N/A
20.	Antenna and turn table controller	СТ	SC100	CT-0091	N/A	N/A
21.	Temperature controller	Terchy	MHQ-120cluB	A60223	May.08, 13	1Year
22.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 13	1 Year
23.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1 Year
24.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,13	1 Year
25.	RF Cable	Hubersuhner	SUCOFLEX102	274094/4	May.08,13	1 Year
26.	Loop Antenna	Chase	HLA6120	1062	May.21, 13	1 Year
27.	Horn Antenna	EMCO	3116	00060089	Aug.28, 13	1 Year



FCC ID: WN7AMC000-007 page 3-2

3.1.Limit

22.913(a) Mobile station are limited to 7W ERP. Part 24.232(b) Mobile station are Limited to 2W EIRP.

3.2.Test Procedure:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength(E in dBuV/m) was calculated.

ERP in frequency band 824.2-848.8MHz were measured using substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follow:

EIRP in frequency band 1850.2-1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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



FCC ID:WN7AMC000-007 page 3-3

3.3.Test Results

EUT: GSM Controller					
M/N: AMC000-007					
Test date: 2014-01-11	Pressure: 101.2±1.0 kpa	Humidity: 48.4±3.0%			
Tested by: Kevin_hu	Test site: RF site	Temperature:20.7±0.6			

GSM 850

Test Result:

The RBW,VBW of SPA for frequency Below 1GHz was RBW=300KHz,VBW=1MHz; Above 1GHz was RBW=1MHz,VBW=3MHz;

Test Mode	Frequenc y (MHz)	СН	Antenna Pol.	SPA Reading (dBuv)	Receive Antenna Factor (dB/m)	Receive Cable Loss (dB)	Field Strength (dBuv/m)
	824.2	824.2 128	V	105.83	22.5	3.67	132.00
			Н	106.05	22.5	3.67	132.22
GSM	836.6	6 190	V	103.97	22.7	3.69	130.36
850			Н	105.54	22.7	3.69	131.93
	848.8	251	V	103.56	22.8	3.70	130.06
	848.8		Н	105.12	22.8	3.70	131.62

S.G.output	Antenna Gain	Tx Cable loss	Result	Limit
(dBm)	(dBd)	(dB)	ERP (dBm)	ERP(dBm)
20.83	8.60	1.20	28.23	38.45
23.99	8.60	1.20	31.39	38.45
21.82	8.82	1.52	29.12	38.45
24.42	8.82	1.52	31.72	38.45
20.83	8.96	1.79	28.00	38.45
24.50	8.96	1.79	31.67	38.45



FCC ID:WN7AMC000-007 page 3-4

PCS 1900

Test Result:

The RBW,VBW of SPA for frequency Below 1GHz was RBW=300KHz,VBW=1MHz; Above 1GHz was RBW=1MHz,VBW=3MHz;

Test Mode	Frequency (MHz)	СН	Antenna Pol.	SPA Reading (dBuv)	Receive Antenna Factor (dB/m)	Receive Cable Loss (dB)	Field Strength (dBuv/m)
	1950.2	512	V	98.78	22.77	5.79	127.34
	1850.2	312	Н	100.34	22.77	5.79	128.9
PCS	1880.0	880.0 661	V	98.95	22.82	5.92	127.69
1900			Н	101.54	22.82	5.92	130.28
	1909.8	810	V	98.64	22.89	6.05	127.58
			Н	101.79	22.89	6.05	130.73

S.G.output	Antenna Gain	Tx Cable loss	Result	Limit
(dBm)	(dBi)	(dB)	EIRP (dBm)	EIRP(dBm)
21.26	7.20	2.25	26.21	33
24.17	7.20	2.25	29.12	33
21.52	7.32	2.42	26.42	33
23.76	7.32	2.42	28.66	33
22.33	7.54	2.60	27.27	33
23.64	7.54	2.60	28.58	33
Conclusion: PA	SS			_



FCC ID:WN7AMC000-007 page 4-1

4. OUT OF BAND EMISSIONS AT ANTENNA TERMINALS AND BAND EDGE

4.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,13	1Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 13	1Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,13	1Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,13	1Year
6.	Power divider	Mini-Circuits	ZFRSC-183-S+	572800942	N/A	N/A
7.	Wireless Communication Test set	Agilent	E5515C	GB44300243	May.08,13	1Year

4.2.Limit

FCC part 22.917(a), 24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specification in the instruction manual and/or alignment procedure, shall not be less than 43+10log(Mean power in watts) dBc below the mean power output outside a license's frequency block(-13dBm).

4.3.Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emission is any up to 10th harmonic. For the out of band: set RBW, VBW=1MHz, stat=30MHz, stop= 10 th harmonic. Limit=-13dBm Band Edge requirements: In 1Mhz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 % of bandwidth of fundamental emission of the transmitter any be employed to measure the out of band emission. Limit=-13dBm.

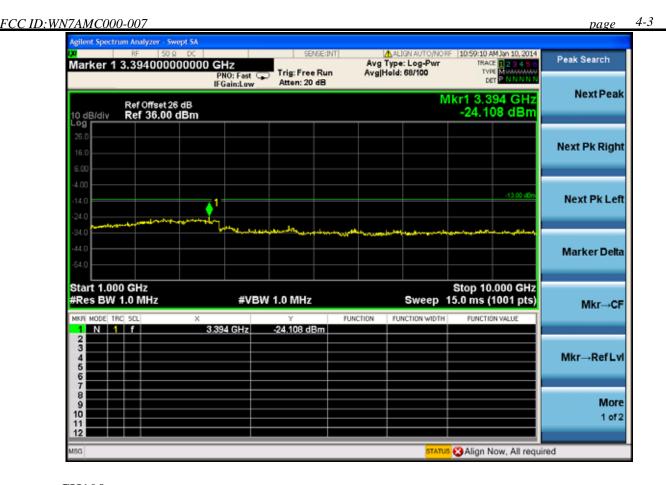
4.4.Test result

PASS (The testing data was attached in the next pages.)









CH190



4-4

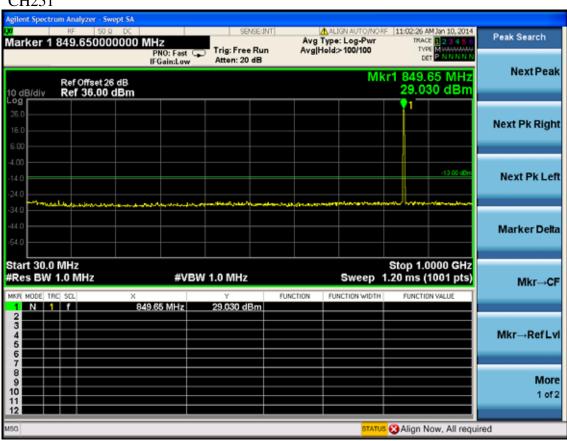


FCC ID:WN7AMC000-007 lgilent Spectrum Analyzer - Swept SA Aug Type: Log-Pwr
Avg|Hold:>100/100

Avg Type: Log-Pwr
Avg|Hold:>100/100

Avg|Hold:>100/100 Peak Search Marker 1 838.010000000 MHz Trig: Free Run Atten: 20 dB Next Peak Mkr1 838.01 MHz 28.798 dBm Ref Offset 26 dB Ref 36.00 dBm Next Pk Right Next Pk Left Marker Delta Stop 1.0000 GHz Start 30.0 MHz #Res BW 1.0 MHz **#VBW 1.0 MHz** Sweep 1.20 ms (1001 pts) Mkr→CF FUNCTION FUNCTION WIDTH 838.01 MHz 28.798 dBm Mkr-→Ref Lvl More 1 of 2 Input Overload;ADC over range

CH251



4-5



FCC ID:WN7AMC000-007

ALIGN AUTO/NORF 11:02:55 AM Ion 10, 2014

Type: Log-Pwr TRACE 12:34:56
Hold: 24/100 TYPE MARKET 10, 2014 Peak Search Avg Type: Log-Pwr Avg|Hold: 24/100 Marker 1 3.2680000000000 GHz Trig: Free Run PNO: Fast 🖵 IFGain:Low Next Peak Mkr1 3.268 GHz Ref Offset 26 dB Ref 36.00 dBm -24.947 dBm **Next Pk Right Next Pk Left** Marker Delta Start 1.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 15.0 ms (1001 pts) Mkr→CF FUNCTION WIDTH -24.947 dBm Mkr→Ref Lvl More 1 of 2 Align Now, All required







Align Now, All required

4-7

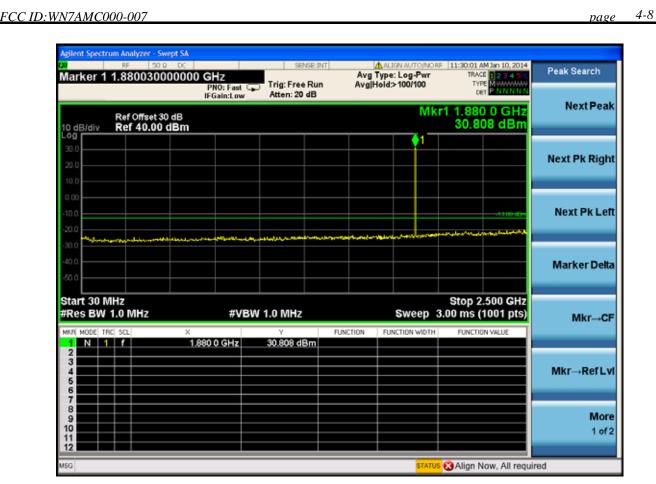


FCC ID:WN7AMC000-007 ALIGN AUTO/NORF | 11:28:47 AM 3m 10, 2014 Type: Log-Pwr TRACE | 2 3 4 5 6 Hold: 37/100 Type Peak Search Avg Type: Log-Pwr Avg|Hold: 37/100 Marker 1 3.175000000000 GHz Trig: Free Run PNO: Fast 🖵 IFGain:Low Next Peak Mkr1 3.175 0 GHz Ref Offset 30 dB Ref 40.00 dBm -20.715 dBm **Next Pk Right Next Pk Left** Marker Delta Start 2.50 GHz Stop 25.00 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 37.5 ms (1001 pts) Mkr→CF FUNCTION WIDTH 3.175 0 GHz -20.715 dBm Mkr---Ref Lvl More 1 of 2

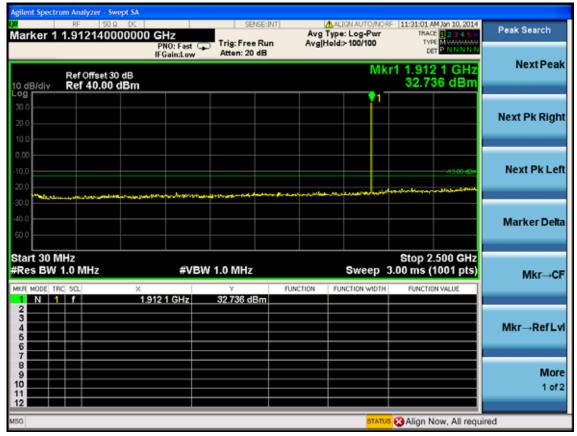
CH661





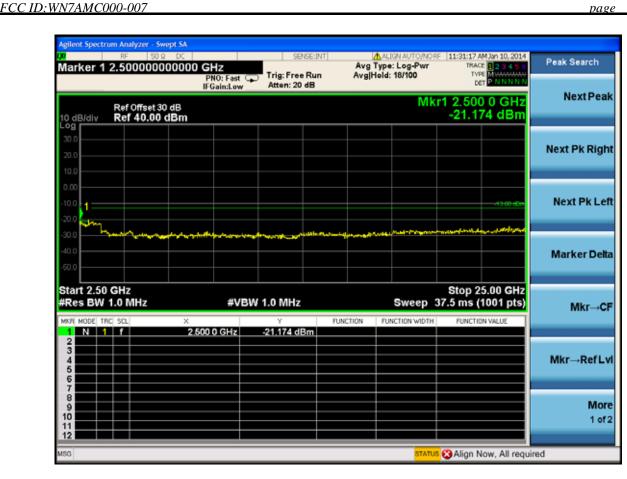


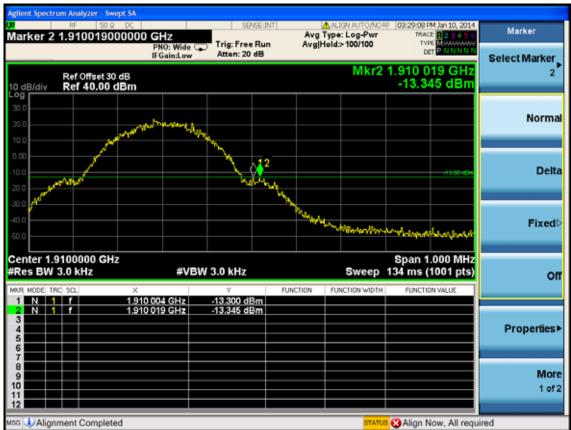
CH810



4-9









FCC ID:WN7AMC000-007 page 5-1

5. 99% & 26dB Occupied Bandwidth Test

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,13	1Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,13	1Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,13	1Year
6.	Power divider	Mini-Circuits	ZFRSC-183-S+	572800942	N/A	N/A
7.	Wireless Communication Test set	Agilent	E5515C	GB44300243	May.08,13	1Year

5.2.Test Procedure

The EUT output RF connector was connected with a short a cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW>=3 times RBW, 99% bandwidth were measured, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

5.3.Test Results

99% Bandwidth

EUT:GSM Controller		
M/N: AMC000-007		
Test date: 2013-01-11	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Kevin_hu	Test site: RF Site	Temperature: 22.5±0.6°C

Test Mode	Frequency (MHz)	СН	99% bandwidth (KHz)	Limit (KHz)
CCM	824.2	128	250.33	N/A
GSM 850	836.6	190	248.45	N/A
830	848.8	251	249.84	N/A
DCG	1850.2	512	245.89	N/A
PCS 1900	1880.0	661	248.05	N/A
1900	1909.8	810	248.38	N/A

Conclusion: PASS



5-2 FCC ID:WN7AMC000-007 Test GSM 850 CH128 lent Spectrum Analyzer - Occupied BW Center Freq: 824 200000 MHz
Trig: Free Run Avg|Hold>10/10
#Atten: 20 dB Radio Std: None Trace/Detector Center Freq 824.200000 MHz #IFGain:Low Radio Device: BTS Ref Offset 26 dB Ref 36.00 dBm Clear Write Average Max Hold Min Hold Center 824.2 MHz Span 1 MHz #ResBW 10 kHz #VBW 30 kHz Sweep 9.6 ms Detector **Total Power** 35.2 dBm Occupied Bandwidth Peak▶ 250.33 kHz Auto Man 587 Hz **OBW Power** Transmit Freq Error 99.00 % x dB Bandwidth 320.3 kHz x dB -26.00 dB Align Now, All required CH190 nt Spectrum Analyzer - Occupied BW 11:08:53 AM Jan 10, 2014 Frequency Center Freq: 836.600000 MHz Radio Std: None Center Freq 836.600000 MHz Avg|Hold:>10/10 Trig: Free Run Radio Device: BTS #IFGain:Low Ref Offset 26 dB Ref 36.00 dBm 10 dB/div Center Freq 836.600000 MHz **CF Step** 100,000 kHz Center 836.6 MHz Span 1 MHz Man Auto #Res BW 10 kHz #VBW 30 kHz Sweep 9.6 ms Freq Offset **Total Power** 35.6 dBm Occupied Bandwidth 0 Hz 248.45 kHz Transmit Freq Error -1.004 kHz **OBW Power** 99.00 % x dB Bandwidth 314.2 kHz x dB -26.00 dB

STATUS Align Now, All required

Align Now, All required



FCC ID:WN7AMC000-007 5-3 CH251 SENSE:INT ALIGN AUTOMORI
Center Freq: 848.800000 MHz
Trig: Free Run Avg|Hold:>10/10
#Atten: 20 dB 11:08:21 AM Jan 10, 2014 Trace/Detector Radio Std: None VBW 30.000 kHz #IFGain:Low Radio Device: BTS Ref Offset 26 dB Ref 36.00 dBm 10 dB/div Clear Write Average Max Hold Min Hold Center 848.8 MHz #Res BW 10 kHz Span 1 MHz Sweep 9.6 ms #VBW 30 kHz Detector 35.9 dBm Total Power Occupied Bandwidth Peak▶ 249.84 kHz Auto Man 358 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 321.5 kHz x dB -26.00 dB

Test PCS 1900

ss Alignment Completed



5-4



FCC ID:WN7AMC000-007 page CH661 11:33:23 AM Jan 10, 2014 Center Freq: 1.880000000 GHz Trig: Free Run Avg|Hol #Atten: 20 dB Frequency Center Freq 1.880000000 GHz Radio Std: None Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS Ref Offset 30 dB Ref 40.00 dBm 10 dB/div Center Freq 1.880000000 GHz CF Step 100.000 kHz Center 1.88 GHz #Res BW 10 kHz Span 1 MHz Sweep 9.6 ms <u>Auto</u> Man #VBW 30 kHz **Total Power** 37.2 dBm Freq Offset Occupied Bandwidth 0 Hz 248.05 kHz -405 Hz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 315.0 kHz x dB -26.00 dB Align Now, All required

CH810





AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID: WN7AMC000-007 page 5-5

26dB Bandwidth

EUT: GSM Controller		
M/N: AMC000-007		
Test date: 2014-01-11	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Kevin_hu	Test site: RF Site	Temperature: 22.5±0.6°C

Test Mode	Frequency (MHz)	СН	26dB bandwidth (KHz)	Limit (KHz)
CCM	824.2	128	320.3	N/A
GSM 850	836.6	190	314.2	N/A
830	848.8	251	321.5	N/A
DCC	1850.2	512	318.7	N/A
PCS 1900	1880.0	661	315.0	N/A
1900	1909.8	810	323.9	N/A

Conclusion: PASS



5-6 FCC ID:WN7AMC000-007 Test GSM 850 CH128 lent Spectrum Analyzer - Occupied BW Center Freq: 824 200000 MHz
Trig: Free Run Avg|Hold>10/10
#Atten: 20 dB Radio Std: None Trace/Detector Center Freq 824.200000 MHz #IFGain:Low Radio Device: BTS Ref Offset 26 dB Ref 36.00 dBm Clear Write Average Max Hold Min Hold Center 824.2 MHz Span 1 MHz #ResBW 10 kHz #VBW 30 kHz Sweep 9.6 ms Detector **Total Power** 35.2 dBm Occupied Bandwidth Peak▶ 250.33 kHz Auto Man 587 Hz **OBW Power** Transmit Freq Error 99.00 % x dB Bandwidth 320.3 kHz x dB -26.00 dB Align Now, All required CH190 nt Spectrum Analyzer - Occupied BW 11:08:53 AM Jan 10, 2014 Frequency Center Freq: 836.600000 MHz Radio Std: None Center Freq 836.600000 MHz Avg|Hold:>10/10 Trig: Free Run Radio Device: BTS #IFGain:Low Ref Offset 26 dB Ref 36.00 dBm 10 dB/div Center Freq 836.600000 MHz **CF Step** 100,000 kHz Center 836.6 MHz Span 1 MHz Man Auto #Res BW 10 kHz #VBW 30 kHz Sweep 9.6 ms Freq Offset **Total Power** 35.6 dBm Occupied Bandwidth 0 Hz 248.45 kHz Transmit Freq Error -1.004 kHz **OBW Power** 99.00 % x dB Bandwidth 314.2 kHz x dB -26.00 dB

STATUS Align Now, All required



FCC ID:WN7AMC000-007 5-7 page CH251 SENSE:INT ALIGN AUTOMORI
Center Freq: 848.800000 MHz
Trig: Free Run Avg|Hold:>10/10
#Atten: 20 dB 11:08:21 AM Jan 10, 2014 Trace/Detector Radio Std: None VBW 30.000 kHz #IFGain:Low Radio Device: BTS Ref Offset 26 dB Ref 36.00 dBm 10 dB/div Clear Write Average Max Hold Min Hold Center 848.8 MHz #Res BW 10 kHz Span 1 MHz Sweep 9.6 ms #VBW 30 kHz Detector 35.9 dBm Total Power Occupied Bandwidth Peak▶ 249.84 kHz Auto Man

OBW Power

x dB

99.00 %

Align Now, All required

-26.00 dB

358 Hz

321.5 kHz

Test PCS 1900

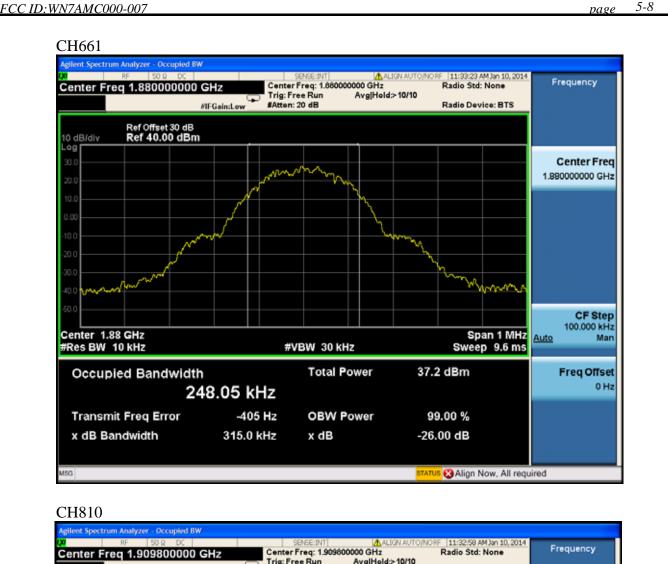
Transmit Freq Error

x dB Bandwidth

ss Alignment Completed











FCC ID:WN7AMC000-007 page 6-1

6. RF POWER OUTPUT TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,13	1Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,13	1Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,13	1Year
6.	Power divider	Mini-Circuits	ZFRSC-183-S+	572800942	N/A	N/A
7.	Wireless Communication Test set	Agilent	E5515C	GB44300243	May.08,13	1Year

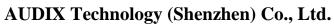
6.2.Limit

Part 22.913(a) Mobile station are limited to 7W Part 24.232(b) Peak power measurement, Mobile station are limited to 2W

6.3.Test Procedure

The transmitter output was connected to calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power in dBm. The power output at the transmitter antenna port was determined by adding the value of attenuator to the power meter reading.





6-2

6.4.Test Results

FCC ID:WN7AMC000-007

EUT: GSM Controller		
M/N: AMC000-007		
Test date: 2014-01-11	Pressure: 101.5±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Kevin_hu	Test site: RF Site	Temperature: 22.5±0.6°C
Cable loss: 2dB	Attenuator loss: 20 dB	Spliter attenuation: 6dB

Frequency (MHz)	СН	Output power (dBm)	Limit (dBm)
824.2	128	31.70	38.45
836.6	190	31.65	38.45
848.8	251	31.72	38.45
1850.2	512	28.32	33
1880.0	661	28.40	33
1909.8	810	28.49	33
	(MHz) 824.2 836.6 848.8 1850.2 1880.0	(MHz) CH 824.2 128 836.6 190 848.8 251 1850.2 512 1880.0 661	(MHz) CH (dBm) 824.2 128 31.70 836.6 190 31.65 848.8 251 31.72 1850.2 512 28.32 1880.0 661 28.40

Conclusion: PASS



FCC ID: WN7AMC000-007 page 7-1

7. FIELD STRENGTH OF RADIATED SPURIOUS EMISSIONS

7.1.Test Equipment

28. Spectrum Analyzer Agilent E4446A US44300459 May.08, 13 1 Year	Item	Equipment	Managerata	Model No	Serial No.	Last Cal.	Cal. Interval
29. Spectrum Analyzer Agilent N9030A MY51380221 Oct.31, 13 1 Year 30. Signal Generator HP 83732B VS34490501 May.08, 13 1 Year 31. Power meter Anritsu ML2487A 6K00002472 May.08, 13 1 Year 32. Power sensor Anritsu MA2491A 0033005 May.08, 13 1 Year 33. Attenuator(10dB) Agilent 8491B MY39264375 May.08, 13 1 Year 34. Attenuator(20dB) Agilent 8491B MY39262165 May.08, 13 1 Year 35. Universal Radio Communication Tester R&S CMU200 117194 Oct. 31,13 1 Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 1 Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 572800942 N/		Equipment					
30. Signal Generator HP 83732B VS34490501 May.08, 13 1 Year 31. Power meter Anritsu ML2487A 6K00002472 May.08, 13 1 Year 32. Power sensor Anritsu MA2491A 0033005 May.08, 13 1 Year 33. Attenuator(10dB) Agilent 8491A MY39264375 May.08, 13 1 Year 34. Attenuator(20dB) Agilent 8491B MY39262165 May.08, 13 1 Year 35. Communication Tester R&S CMU200 117194 Oct. 31,13 1 Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 1 Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 47. Antenna and turn table CT SC100 CT-0091 N/A N/A N/A 47. Antenna and turn table CT SC100 CT-0091 N/A N/A N/A N/A N/A CT SC100 CT-0091 N/A N/A N/A N/A N/A CT SC100 CT-0091 N/A N/A		1	<u> </u>				
31. Power meter Anritsu ML2487A 6K00002472 May.08, 13 IYear 32. Power sensor Anritsu MA2491A 0033005 May.08, 13 IYear 33. Attenuator(10dB) Agilent 8491A MY39264375 May.08, 13 I Year 34. Attenuator(20dB) Agilent 8491B MY39262165 May.08, 13 I Year 35. Universal Radio Communication Tester R&S CMU200 117194 Oct. 31,13 I Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 I Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 I Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 I Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 I Year <td< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td></td<>		•					
32. Power sensor Anritsu MA2491A 0033005 May.08, 13 I Year 33. Attenuator(10dB) Agilent 8491A MY39264375 May.08, 13 I Year 34. Attenuator(20dB) Agilent 8491B MY39262165 May.08, 13 I Year 35. Universal Radio Communication Tester R&S CMU200 117194 Oct. 31,13 I Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 I Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 I Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 I Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 I Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 I Year <t< td=""><td></td><td>Signal Generator</td><td></td><td>83732B</td><td>VS34490501</td><td>May.08, 13</td><td>1 Year</td></t<>		Signal Generator		83732B	VS34490501	May.08, 13	1 Year
33. Attenuator(10dB) Agilent 8491A MY39264375 May.08, 13 1 Year 34. Attenuator(20dB) Agilent 8491B MY39262165 May.08, 13 1 Year 35. Universal Radio Communication Tester R&S CMU200 117194 Oct. 31,13 1 Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 1 Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.14, 13 1 Year 43		Power meter	_	ML2487A	6K00002472	May.08, 13	1Year
34. Attenuator(20dB) Agilent 8491B MY39262165 May.08, 13 1 Year 35. Universal Radio Communication Tester R&S CMU200 117194 Oct. 31,13 1 Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 1 Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.08, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. <td></td> <td>Power sensor</td> <td>Anritsu</td> <td>MA2491A</td> <td>0033005</td> <td>May.08, 13</td> <td>1Year</td>		Power sensor	Anritsu	MA2491A	0033005	May.08, 13	1Year
35. Universal Radio Communication Tester R&S CMU200 117194 Oct. 31,13 1 Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 1 Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A N/A 47. Antenna and turn table CT SC100 CT-0091 N/A N/A N/A N/A CT SC100 CT-0091 N/A N/A N/A N/A N/A N/A CT SC100 CT-0091 N/A	33.	Attenuator(10dB)	Agilent	8491A	MY39264375	May.08, 13	1 Year
35. Communication Tester R&S CMU200 117194 Oct. 31,13 1 Year 36. Network Analyzer Agilent E5071B MY42403549 May.08, 13 1 Year 37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table CT SC100 CT-0091 N/A N/A 48. Temperature Terchy MHQ-120cluB A60223 May.08, 13 1 Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08, 13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08, 13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08, 13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year 54. Power divider Agilent E5071B May.08, 13 1 Year 55. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08, 13 1 Year 55. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year 55. Power divider Hubersuhner SUCOFLEX102 1062 May.21, 13 1 Year 56. Power divider Hubersuhner SUCOFLEX102 1062 May.21, 13 1 Year 57. Power divider Hubersuhner SUCOFLEX102 1062 May.21, 13 1 Year 58. Power divider Hubersuhner SUCOFLEX102	34.	Attenuator(20dB)	Agilent	8491B	MY39262165	May.08, 13	1 Year
37. Bluetooth Test set Agilent MT8852B 6K00005966 May.18, 13 1 Year 38. Wireless Communication Tester Agilent E5515C GB44300243 May.18, 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenn	35.		R&S	CMU200	117194	Oct. 31,13	1 Year
38. Wireless Communication Tester Agilent E5515C GB44300243 May.18. 13 1 Year 39. DC Power supply King DPS-1303D 821956 N/A N/A 40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 49. RF Cable <td>36.</td> <td>Network Analyzer</td> <td>Agilent</td> <td>E5071B</td> <td>MY42403549</td> <td>May.08, 13</td> <td>1 Year</td>	36.	Network Analyzer	Agilent	E5071B	MY42403549	May.08, 13	1 Year
Second S	37.	Bluetooth Test set	Agilent	MT8852B	6K00005966	May.18, 13	1 Year
40. PreAmplifier Agilent 8449B 3008A02495 May.08, 13 1 Year 41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1 Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 51. RF Ca	38.		Agilent	E5515C	GB44300243	May.18. 13	1 Year
41. PreAmplifier Agilent 8447D 2944A11159 May.08, 13 1Year 42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08, 13 1 Year 51. RF C	39.	DC Power supply	King	DPS-1303D	821956	N/A	N/A
42. Horn Antenna EMCO 3115 9510-4580 May.28, 13 1 Year 43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08, 13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08, 13 1 Year 52. <td< td=""><td>40.</td><td>PreAmplifier</td><td>Agilent</td><td>8449B</td><td>3008A02495</td><td>May.08, 13</td><td>1 Year</td></td<>	40.	PreAmplifier	Agilent	8449B	3008A02495	May.08, 13	1 Year
43. Bilog Antenna Schaffner CBL6111C 2598 Mar.14, 13 1 Year 44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1 Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08, 13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08, 13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08, 13 1 Year 53.	41.	PreAmplifier	Agilent	8447D	2944A11159	May.08, 13	1Year
44. Power divider Mini-Circuits ZFRSC-183-S+ 572800942 N/A N/A 45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08, 13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08, 13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08, 13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	42.	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
45. Power divider Mini-Circuits ZA3PD-4-S+ 347100912 N/A N/A 46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08,13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	43.	Bilog Antenna			2598	Mar.14, 13	1 Year
46. Power divider Mini-Circuits ZA4PD-4-S+ 544000937 N/A N/A 47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08,13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	44.	Power divider	Mini-Circuits	ZFRSC-183-S+	572800942	N/A	N/A
47. Antenna and turn table controller CT SC100 CT-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08,13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	45.	Power divider	Mini-Circuits	ZA3PD-4-S+	347100912	N/A	N/A
description C1 SC100 C1-0091 N/A N/A 48. Temperature controller Terchy MHQ-120cluB A60223 May.08, 13 1Year 49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08,13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	46.	Power divider	Mini-Circuits	ZA4PD-4-S+	544000937	N/A	N/A
49. RF Cable Hubersuhner SUCOFLEX102 28620/2 May.08, 13 1 Year 50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08, 13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	47.		СТ	SC100	CT-0091	N/A	N/A
50. RF Cable Hubersuhner SUCOFLEX102 28618/2 May.08,13 1 Year 51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	48.		Terchy	MHQ-120cluB	A60223	May.08, 13	1Year
51. RF Cable Hubersuhner SUCOFLEX102 28610/2 May.08,13 1 Year 52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	49.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 13	1 Year
52. RF Cable Hubersuhner SUCOFLEX102 274094/4 May.08,13 1 Year 53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	50.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	•	
53. Loop Antenna Chase HLA6120 1062 May.21, 13 1 Year	51.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,13	1 Year
	52.	RF Cable	Hubersuhner	SUCOFLEX102	274094/4	May.08,13	1 Year
	53.	Loop Antenna	Chase	HLA6120	1062	May.21, 13	1 Year
	54.		EMCO	3116	00060089	Aug.28, 13	1 Year



FCC ID: WN7AMC000-007 page 7-2

7.2.Limit

FCC part 22.917(a), 24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specification in the instruction manual and/or alignment procedure, shall not be less than 43+10log(Mean power in watts) dBc below the mean power output outside a license's frequency block(-13dBm).

7.3.Test Procedure

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and lowering of the test antenna from 4m to 1m.

ERP in frequency band below 1GHz were measured using substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follow: ERP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and ERP was calculated as follows:

Below 1GHz:

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

Above 1GHz:

ERP=S.G. output (dBm) + Antenna Gain (dBi)-Cable Loss (dB)-2.15



FCC ID:WN7AMC000-007 page 7-1

7.4. Test Results

GSM 850 Mode

Spurious emissions

EUT:GSM Controller

M/N:AMC000-007

Power: DC 3.7V

Test Date: 2014-01-11 Test site: RF Chamber Tested by: Kevin_hu

Temperature: 22.8±0.6°C Humidity: 50.3±3.0% Pressure: 100.7±1.0kpa

Test result

Test Mode: GSM 850 TX CH Low Mode 824.2MHz

Frequency (MHz)	Antenna polarization	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Conclusion
168	Н	-57.64	2.41	1.2	-56.43	-13	43.43	PASS
195	Н	-58.98	2.80	1.4	-57.58	-13	44.58	PASS
312	Н	-56.75	2.84	1.5	-55.41	-13	42.41	PASS
444	Н	-55.89	2.99	1.7	-54.6	-13	41.6	PASS
1618	Н	-53.62	6.96	2.4	-51.21	-13	38.21	PASS
2209	Н	-49.23	7.20	2.9	-47.08	-13	34.08	PASS
2845	Н	-45.34	8.20	3.3	-42.59	-13	29.59	PASS
150	V	-56.87	2.09	1.0	-55.78	-13	42.78	PASS
169	V	-57.43	2.41	1.2	-56.22	-13	43.22	PASS
196	V	-55.22	2.80	1.4	-53.82	-13	40.82	PASS
444	V	-56.88	2.99	1.7	-55.59	-13	42.59	PASS
1618	V	-53.74	6.96	2.4	-51.33	-13	38.33	PASS
2209	V	-51.36	7.20	2.9	-49.21	-13	36.21	PASS
2845	V	-47.83	8.20	3.3	-45.08	-13	32.08	PASS



est Mode:	GSM 850	TX CH Mid	Mode 836.6	6MHz				
168	Н	-56.54	2.41	1.2	-55.33	-13	42.33	PASS
195	Н	-56.75	2.80	1.4	-55.35	-13	42.35	PASS
312	Н	-57.57	2.84	1.5	-56.23	-13	43.23	PASS
444	Н	-56.23	2.99	1.7	-54.94	-13	41.94	PASS
1628	Н	-52.45	7.05	2.4	-49.95	-13	36.95	PASS
2214	Н	-51.76	7.23	2.9	-49.58	-13	36.58	PASS
2846	Н	-46.54	8.20	3.3	-43.79	-13	30.79	PASS
150	V	-54.45	2.09	1.0	-53.36	-13	40.36	PASS
169	V	-55.67	2.41	1.2	-54.46	-13	41.46	PASS
196	V	-57.58	2.80	1.4	-56.18	-13	43.18	PASS
444	V	-55.23	2.99	1.7	-53.94	-13	40.94	PASS
1628	V	-49.56	7.05	2.4	-47.06	-13	34.06	PASS
2214	V	-46.87	7.23	2.9	-44.69	-13	31.69	PASS
2846	V	-46.22	8.20	3.3	-43.47	-13	30.47	PASS
est Mode:	GSM 850	TX CH High	Mode 848.	8MHz				
168	Н	-56.45	2.41	1.2	-55.24	-13	42.24	PASS
195	Н	-55.66	2.80	1.4	-54.26	-13	41.26	PASS
312	Н	-57.55	2.84	1.5	-56.21	-13	43.21	PASS
444	Н	-53.47	2.99	1.7	-52.18	-13	39.18	PASS
1668	Н	-48.30	7.11	2.5	-45.84	-13	32.84	PASS
2209	Н	-46.31	7.20	2.9	-44.16	-13	31.16	PASS
2845	Н	-44.09	8.20	3.3	-41.34	-13	28.34	PASS
150	V	-57.34	2.09	1.0	-56.25	-13	43.25	PASS
169	V	-55.49	2.41	1.2	-54.28	-13	41.28	PASS
196	V	-57.57	2.80	1.4	-56.17	-13	43.17	PASS
444	V	-54.76	2.99	1.7	-53.47	-13	40.47	PASS
1668	V	-50.86	7.11	2.5	-48.40	-13	35.40	PASS
2209	V	-49.44	7.20	2.9	-47.29	-13	34.29	PASS
2845	V	-48.48	8.20	3.3	-45.73	-13	32.73	PASS



FCC ID: WN7AMC000-007 page 7-3

PCS 1900 Mode

Spurious emissions

EUT:GSM Controller

M/N:AMC000-007

Power: DC 3.7V

Test Date: 2014-01-11 Test site: RF Chamber Tested by:Kevin_Hu

Temperature: 22.8±0.6°C Humidity: 50.3±3.0% Pressure: 100.7±1.0kpa

Test result

Test Mode: PCS 1900 TX CH Low Mode 1850.2MHz

1 CSt 1410 dC	. 1 C5 1700	177 CIT LO	w Mode 165	70.21 VII I2				
Frequency (MHz)	Antenna polarization	S.G Output (dBm)	Antenna Gain (dBi/dBd)	Cable Loss (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Conclusion
168	Н	-57.98	2.41	1.2	-56.77	-13	43.77	PASS
195	Н	-55.96	2.80	1.4	-54.56	-13	41.56	PASS
312	Н	-54.24	2.84	1.5	-52.9	-13	39.9	PASS
444	Н	-55.41	2.99	1.7	-54.12	-13	41.12	PASS
2208	Н	-49.55	7.20	2.9	-47.40	-13	34.40	PASS
2844	Н	-51.61	8.20	3.3	-48.86	-13	35.86	PASS
3670	Н	-43.92	8.95	3.8	-40.92	-13	27.92	PASS
150	V	-56.45	2.09	1.0	-55.36	-13	42.36	PASS
169	V	-57.67	2.41	1.2	-56.46	-13	43.46	PASS
196	V	-56.64	2.80	1.4	-55.24	-13	42.24	PASS
444	V	-54.35	2.99	1.7	-53.06	-13	40.06	PASS
2208	V	-50.57	7.20	2.9	-48.42	-13	35.42	PASS
2844	V	-51.44	8.20	3.3	-48.69	-13	35.69	PASS
3670	V	-44.76	8.95	3.8	-41.76	-13	28.76	PASS



7-4 *FCC ID:WN7AMC000-007* page Test Mode: PCS 1900 TX CH Mid Mode 1880.0MHz 168 -56.81 2.41 1.2 -55.6 -13 42.6 **PASS** Η 195 Η -57.42 2.80 1.4 -56.02 -13 43.02 **PASS** 312 Η -55.15 2.84 1.5 -53.81 -13 40.81 **PASS** 444 Η -54.98 2.99 1.7 -53.69 -13 40.69 **PASS** 1818 Η -46.53 7.15 2.7 -44.23 -13 31.23 **PASS** 2214 Η -51.91 7.23 2.9 -49.73 -13 36.73 **PASS** 3720 -45.34 9.01 3.9 29.38 **PASS** Η -42.38-13 150 V 2.09 40.64 **PASS** -54.73 1.0 -53.64 -13 169 V -53.18 2.41 1.2 -51.97 -13 38.97 **PASS** 196 V **PASS** -52.67 2.80 1.4 -51.27 -13 38.27 444 V 2.99 -52.19 1.7 -50.9 -13 37.9 **PASS** 1818 V 7.15 -46.65 2.7 -44.35 -13 31.35 **PASS** 2214 V -44.66 7.23 2.9 29.48 **PASS** -42.48 -13 3720 V -43.14 9.01 3.9 27.18 -40.18 -13 **PASS** Test Mode: PCS 1900 TX CH High Mode 1909.8MHz 168 Η -54.45 2.41 1.2 -53.24 -13 40.24 **PASS** 195 Η -53.24 2.80 1.4 -51.84 -13 38.84 **PASS PASS** 312 Η -56.43 2.84 -55.09 -13 42.09 1.5 **PASS** 444 -54.55 2.99 1.7 -53.26 -13 40.26 Η 1918 Η -45.56 7.17 2.8 -43.34 -13 30.34 **PASS** 2209 Η -45.91 7.22 2.9 -43.74 -13 30.74 **PASS** 3820 Η -42.73 9.08 4.0 -39.80 -13 26.80 **PASS** 150 V 2.09 41.48 -55.57 1.0 -54.48 -13 **PASS PASS** 169 V 1.2 -53.87 2.41 -52.66 -13 39.66 **PASS** 196 V -52.76 2.80 1.4 -51.36 -13 38.36 444 V -54.82 2.99 1.7 -53.53 -13 40.53 **PASS** 1918 V -46.68 7.17 2.8 -44.46 -13 31.46 **PASS** 2209 V -47.19 7.22 2.9 -45.02 -13 32.02 **PASS** 3820 V -47.63 9.08 4.0 -44.70-13 31.70 **PASS** Remark: All the emission were detected belong to narrowband spurious emission



FCC ID:WN7AMC000-007 page 8-1

8. FREQUENCY STABILITY V.S. TEMPERATURE AND VOLTAGE

8.1.Test Equipment

_		_			_	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
55.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 13	1 Year
56.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
57.	Signal Generator	HP	83732B	VS34490501	May.08, 13	1 Year
58.	Power meter	Anritsu	ML2487A	6K00002472	May.08, 13	1 Year
59.	Power sensor	Anritsu	MA2491A	0033005	May.08, 13	1 Year
60.	Attenuator(10dB)	Agilent	8491A	MY39264375	May.08, 13	1 Year
61.	Attenuator(20dB)	Agilent	8491B	MY39262165	May.08, 13	1 Year
62.	Universal Radio Communication Tester	R&S	CMU200	117194		1 Year
63.	Network Analyzer	Agilent	E5071B	MY42403549	May.08, 13	1 Year
64.	Bluetooth Test set	Agilent	MT8852B	6K00005966	May.18, 13	1 Year
65.	Wireless Communication Tester	Agilent	E5515C	GB44300243		
66.	DC Power supply	King	DPS-1303D	821956	N/A	N/A
67.	PreAmplifier	Agilent	8449B	3008A02495	May.08, 13	1 Year
68.	PreAmplifier	Agilent	8447D	2944A11159	May.08, 13	1Year
69.	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
70.	Bilog Antenna	Schaffner	CBL6111C	2598	Mar.14, 13	1 Year
71.	Power divider	Mini-Circuits	ZFRSC-183-S+	572800942	N/A	N/A
72.	Power divider	Mini-Circuits	ZA3PD-4-S+	347100912	N/A	N/A
73.	Power divider	Mini-Circuits	ZA4PD-4-S+	544000937	N/A	N/A
74.	Antenna and turn table controller	СТ	SC100	CT-0091	N/A	N/A
75.	Temperature controller	Terchy	MHQ-120cluB	A60223	May.08, 13	1 Year
76.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 13	1 Year
77.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1 Year
78.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,13	1 Year
79.	RF Cable	Hubersuhner	SUCOFLEX102	274094/4	May.08,13	1 Year
80.	Loop Antenna	Chase	HLA6120	1062	May.21, 13	1 Year
81.	Horn Antenna	EMCO	3116	00060089	Aug.28, 13	1 Year



FCC ID: WN7AMC000-007 page 8-2

8.1.Limit

Frequency Tolerance: +/-2.5ppm for 850MHz band +/-2.5ppm for 1900MHz band

8.2. Test procedure:

The equipment under test was connected to an external DC power supply and input rated voltage. Reference power supply voltage for these tests is DC 4.0V. 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 25 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes record the frequency. Repeat step measure with 10 degree per stage until the highest temperature of 50 degree reached.



AUDIX Technology (Shenzhen) Co., Ltd.

CC ID:WN7AMC000-	007					page 8-1
Frequency Stability						
EUT:GSM Controlle	er					
M/N:AMC000-007						
Power: DC 3.7V						
Test Date: 2014-01-11 Test site: RF Chamber					Tested by:Key	vin_hu
*		Humidity:	Humidity: $50.3 \pm 3.0\%$ Pressure: 100.7 ± 1.0 k			.7 ± 1.0kpa
Frequency stability V		(Temperature	:25)		•	
Test Mode: GSM 850	0 CH 128	824.2MHz				
Supply Voltage (V)	СН	Frequency (MHz)	Test result (MHz)	Deviation (ppm)	Limit (ppm)	Conclusion
102	128	824.2	824.1985	1.8	+/- 2.5	PASS
112	128	824.2	824.1986	1.7	+/- 2.5	PASS
120	128	824.2	824.1989	1.3	+/- 2.5	PASS
130	128	824.2	824.1996	0.5	+/- 2.5	PASS
138	128	824.2	824.1992	1.0	+/- 2.5	PASS
Test Mode: GSM 850	0 CH190	836.6MHz				
Supply Voltage (V)	СН	Frequency (MHz)	Test result (MHz)	Deviation (ppm)	Limit (ppm)	Conclusion
102	190	836.6	836.5996	0.5	+/- 2.5	PASS
112	190	836.6	836.5989	1.3	+/- 2.5	PASS
120	190	836.6	836.5992	1.0	+/- 2.5	PASS
130	190	836.6	836.5995	0.6	+/- 2.5	PASS
138	190	836.6	836.5991	1.1	+/- 2.5	PASS
Test Mode: GSM 850	0 CH251	848.8MHz				
Supply Voltage (V)	СН	Frequency (MHz)	Test result (MHz)	Deviation (ppm)	Limit (ppm)	Conclusion
102	251	848.8	848.7995	0.6	+/-2.5	PASS
112	251	848.8	848.7992	0.9	+/-2.5	PASS
120	251	848.8	848.7989	1.3	+/-2.5	PASS
130	251	848.8	848.7990	1.2	+/-2.5	PASS
138	251	848.8	848.7994	0.7	+/-2.5	PASS



FCC ID:WN7AMC000-007

AUDIX Technology (Shenzhen) Co., Ltd.

8-2

Test Mode: PCS 1900 CH 512 1850.2MHz Supply Voltage Deviation Frequency Test result Limit CH Conclusion (V) (MHz) (ppm) (MHz) (ppm) 102 512 1850.2 1850.1996 0.2 +/- 2.5 **PASS** 112 512 1850.2 1850.1992 0.4 +/- 2.5 **PASS** 120 512 1850.2 1850.1990 0.5 +/- 2.5 **PASS** 130 512 1850.1899 +/- 2.5 1850.2 0.5 **PASS** 138 512 1850.2 1850.1994 0.3 +/- 2.5 **PASS** Test Mode: PCS 1900 CH 661 1880.0MHz Supply Voltage Deviation Frequency Test result Limit CH Conclusion (V) (MHz) (ppm) (MHz) (ppm) 102 661 1880.0 1879.9986 0.7 +/- 2.5 **PASS** 112 1880.0 +/- 2.5 **PASS** 661 1879.9979 1.1 120 661 1880.0 1879.9989 +/- 2.5 **PASS** 0.6 130 1880.0 1879.9992 +/- 2.5 **PASS** 661 0.4 138 661 1880.0 1879.9987 0.7 +/- 2.5 **PASS** Test Mode: PCS 1900 CH 810 1909.8MHz Supply Voltage Frequency Deviation Test result Limit CH Conclusion (V) (MHz) (MHz) (ppm) (ppm) 102 810 1909.8 1909.7982 0.9 +/- 2.5 **PASS** 112 810 1909.8 1909.7980 1.0 +/- 2.5 **PASS** 120 1909.8 1909.7985 810 0.8 +/- 2.5 **PASS** 130 810 1909.8 1909.7979 +/- 2.5 **PASS** 1.1 138 810 1909.8 1909.7988 +/- 2.5 0.6 **PASS**



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID: WN7AMC000-007 page 8-3

Frequency stability Fest Mode: GSM 8		824.2MHz				
Temperature	CII	Frequency	Test result	Deviation	Limit	Canalasian
()	СН	(MHz)	(MHz)	(ppm)	(ppm)	Conclusion
-30	128	824.2	824.1992	1.0	+/- 2.5	PASS
-20	128	824.2	824.1998	0.2	+/- 2.5	PASS
-10	128	824.2	824.1995	0.6	+/- 2.5	PASS
10	128	824.2	824.1996	0.5	+/- 2.5	PASS
20	128	824.2	824.1994	0.7	+/- 2.5	PASS
30	128	824.2	824.1991	1.0	+/- 2.5	PASS
40	128	824.2	824.1997	0.4	+/- 2.5	PASS
50	128	824.2	824.1999	0.1	+/- 2.5	PASS
Test Mode: GSM 8	50 CH190	836.6MHz				
-30	190	836.6	836.5998	0.2	+/- 2.5	PASS
-20	190	836.6	836.5994	0.7	+/- 2.5	PASS
-10	190	836.6	836.5995	0.6	+/- 2.5	PASS
10	190	836.6	836.5997	0.4	+/- 2.5	PASS
20	190	836.6	836.5993	0.8	+/- 2.5	PASS
30	190	836.6	836.5996	0.5	+/- 2.5	PASS
40	190	836.6	836.5992	1.0	+/- 2.5	PASS
50	190	836.6	836.5999	0.1	+/- 2.5	PASS
Гest Mode: GSM 8	50 CH251	848.8MHz				
-30	251	848.8	848.7992	0.9	+/-2.5	PASS
-20	251	848.8	848.7995	0.6	+/-2.5	PASS
-10	251	848.8	848.7997	0.4	+/-2.5	PASS
10	251	848.8	848.7993	0.8	+/-2.5	PASS
20	251	848.8	848.7999	0.1	+/-2.5	PASS
30	251	848.8	848.7996	0.5	+/-2.5	PASS
40	251	848.8	848.7998	0.2	+/-2.5	PASS
50	251	848.8	848.7994	0.7	+/-2.5	PASS



AUDIX Technology (Shenzhen) Co., Ltd.

CC ID:WN7AMC000	<u>0-007</u>					page 8-4
Test Mode: PCS 19	900 CH 512 1	1850 2MHz				
-30	512	1850.2	1850.1995	0.3	+/- 2.5	PASS
-20	512	1850.2	1850.1998	0.1	+/- 2.5	PASS
-10	512	1850.2	1850.1996	0.2	+/- 2.5	PASS
10	512	1850.2	1850.1997	0.2	+/- 2.5	PASS
20	512	1850.2	1850.1992	0.4	+/- 2.5	PASS
30	512	1850.2	1850.1991	0.5	+/- 2.5	PASS
40	512	1850.2	1850.1993	0.4	+/- 2.5	PASS
50	512	1850.2	1850.1994	0.3	+/- 2.5	PASS
est Mode: PCS 19	00 CH 661 1	880.0MHz				
-30	661	1880.0	1879.9986	0.7	+/- 2.5	PASS
-20	661	1880.0	1879.9975	1.3	+/- 2.5	PASS
-10	661	1880.0	1879.9965	1.7	+/- 2.5	PASS
10	661	1880.0	1879.9962	2.0	+/- 2.5	PASS
20	661	1880.0	1879.9958	2.2	+/- 2.5	PASS
30	661	1880.0	1879.9964	1.9	+/- 2.5	PASS
40	661	1880.0	1879.9971	1.5	+/- 2.5	PASS
50	661	1880.0	1879.9982	1.0	+/- 2.5	PASS
Test Mode: PCS 19	00 CH 810 1	909.8MHz				
-30	810	1909.8	1909.7984	0.8	+/- 2.5	PASS
-20	810	1909.8	1909.7957	2.2	+/- 2.5	PASS
-10	810	1909.8	1909.7973	1.4	+/- 2.5	PASS
10	810	1909.8	1909.7982	0.9	+/- 2.5	PASS
20	810	1909.8	1909.7955	2.3	+/- 2.5	PASS
30	810	1909.8	1909.7963	1.9	+/- 2.5	PASS
40	810	1909.8	1909.7969	1.6	+/- 2.5	PASS
50	810	1909.8	1909.7966	1.8	+/- 2.5	PASS



ID:WN7AMC000-007	page	9-1
9. DEVIATION TO TEST SPECIFICATIONS		
[NONE]		