

Report No: CCIS15010006801

FCC REPORT

Applicant: Interglobe Connection Corp

Address of Applicant: 7500 NW 25th Street 112 Miami, Florida 33122 USA

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: SOLE F250

Trade mark: SOLE

FCC ID: 2AC7ISOLE-F250

FCC CFR Title 47 Part 2

Applicable standards: FCC CFR Title 47 Part22 Subpart H

FCC CFR Title 47 Part24 Subpart E

Date of sample receipt: 27 Jan., 2015

Date of Test: 27 Jan., 2015 to 10 Mar., 2015

Date of report issued: 10 Mar., 2015

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2. Version

Version No.	Date	Description
00	10 Mar., 2015	Original

Luna Gas Report Clerk Prepared by: 10 Mar., 2015 Date:

Reviewed by: Date: 10 Mar., 2015

Project Engineer





3. Contents

			Page
1.	CO	VER PAGE	1
2.	VEF	RSION	2
3.		NTENTS	
4.	TES	ST SUMMARY	4
5.	GEI	NERAL INFORMATION	5
5	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	
5	5.3	TEST MODES	
5	5.4	RELATED SUBMITTAL(S) / GRANT (S)	
5	5.5	TEST METHODOLOGY	8
5	5.6	LABORATORY FACILITY	8
5	5.7	LABORATORY LOCATION	8
5	5.8	TEST INSTRUMENTS LIST	9
6.	SYS	STEM TEST CONFIGURATION	10
6	6.1	EUT CONFIGURATION	10
6	6.2	EUT Exercise	10
6	3.3	CONFIGURATION OF TESTED SYSTEM	10
6	6.4	DESCRIPTION OF TEST MODES	10
6	6.5	CONDUCTED OUTPUT POWER	11
6	6.6	OCCUPY BANDWIDTH	13
6	3.7	MODULATION CHARACTERISTIC	19
6	8.6	OUT OF BAND EMISSION AT ANTENNA TERMINALS	
6	6.9	ERP, EIRP MEASUREMENT	
	5.10	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	
	5.11	FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	
6	5.12	FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	34
7	TES	ST SETUP PHOTO	36
8	EUT	T CONSTRUCTIONAL DETAILS	37





4. Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.



Report No: CCIS15010006801

5. General Information

5.1 Client Information

Applicant:	Interglobe Connection Corp
Address of Applicant:	7500 NW 25th Street 112 Miami, Florida 33122 USA

5.2 General Description of E.U.T.

MOBILE PHONE
SOLE F250
GSM 850: 824.20MHz-848.80MHz
PCS1900: 1850.20MHz-1909.80MHz
GSM/GPRS:GMSK
Internal Antenna
GSM 850: 1.6 dBi
PCS 1900: 1.4 dBi
BT : 1.1 dBi
Input:100-240V AC,50/60Hz
Output:5V DC MAX 0.5A
Rechargeable Li-ion Battery DC3.7V-800mAh





Operation Frequency List:

GS	SM 850	PCS1900		
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)	
128	824.20	512	1850.20	
129	824.40	513	1850.40	
189	836.40	660	1879.80	
190	836.60	661	1880.00	
191	836.80	662	1880.20	
			•••	
250	848.60	809	1909.60	
251	848.80	810	1909.80	



Report No: CCIS15010006801

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

GSM850			PCS1900		
Channel Frequency(MHz)		Frequency(MHz)		Channel	Frequency(MHz)
Lowest channel	128	824.20	Lowest channel	512	1850.20
Middle channel	190	836.60	Middle channel	661	1880.00
Highest channel	251	848.80	Highest channel	810	1909.80



Remark:

5.3 Test modes

3.3 Test modes	
Communicate mode (GSM850)	Keep the EUT in communicating mode on GSM 850 band.
Data mode (GPRS850)	Keep the EUT in data communicating mode on GPRS 850 band.
Communicate mode (PCS1900)	Keep the EUT in communicating mode on PCS1900 band.
Data mode (GPRS1900)	Keep the EUT in data communicating mode on GPRS1900 band.

Report No: CCIS15010006801

5.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

Pre-test output power of all modes, and found GSM 850, PCS

1900 were the worst case. The details please refer to section 6.5.

5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366





5.8 Test Instruments list

Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	04-19-2014	04-19-2015	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	04-19-2014	04-19-2015	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS	N/A	CCIS0016	04-01-2014	03-31-2015	
6	Coaxial Cable	CCIS	N/A	CCIS0017	04-01-2014	03-31-2015	
7	Coaxial cable	CCIS	N/A	CCIS0018	04-01-2014	03-31-2015	
8	Coaxial Cable	CCIS	N/A	CCIS0019	04-01-2014	03-31-2015	
9	Coaxial Cable	CCIS	N/A	CCIS0087	04-01-2014	03-31-2015	
10	Amplifier(10kHz- 1.3GHz)	НР	8447D	CCIS0003	04-01-2014	03-31-2015	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	06-09-2014	06-08-2015	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2014	03-31-2015	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	03-30-2014	03-29-2015	
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A	
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A	
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP 30	CCIS0023	04-19-2014	04-19-2015	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	04-01-2014	03-31-2015	
18	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2014	03-31-2015	
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	05-29-2014	05-28-2015	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-19-2014	04-19-2015	



Report No: CCIS15010006801

6. System test configuration

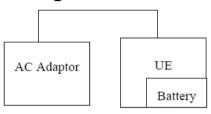
6.1 EUT Configuration

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

6.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

6.3 Configuration of Tested System



Remote Side

CMU200

6.4 Description of Test Modes

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for three modes (GSM850, PCS1900) with power adaptor, earphone and Data cable. The worst-case H mode for GSM850, PCS1900.





6.5 Conducted Output Power

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)			
Test Method:	FCC part 2.1046			
Limit:	GSM 850 7W PCS 1900 2W			
Test setup:	EUT ATT Communication Tester Note: Measurement setup for testing on Antenna connector			
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMU200. Transmitter output power was read off in dBm.			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data



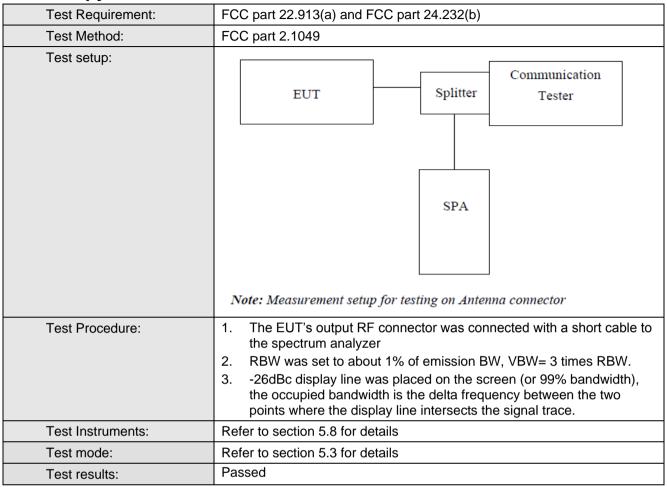
Report No: CCIS15010006801

Report No. CCIS 150 100000					1301000001
EUT Mode	Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
	128	824.20	32.86		
GSM 850	190	836.60	32.82		
	251	848.80	32.78		
GPRS 850	128	824.20	32.85		
(1 Uplink slot)	190	836.60	32.79		
(1 Opinik Siot)	251	848.80	32.72		
GPRS 850	128	824.20	30.91		
(2 Uplink slots)	190	836.60	30.89	38.45	Pass
(2 opinik dioto)	251	848.80	30.84		
GPRS 850	128	824.20	28.96		
(3 Uplink slots)	190	836.60	28.94		
(o opiniit dioto)	251	848.80	28.89		
GPRS 850	128	824.20	26.96		
(4 Uplink slots)	190	836.60	26.83		
(251	848.80	26.93		
	512	1850.20	29.74	_	
PCS 1900	661	1880.00	29.58		
	810	1909.80	29.40		
0000 4000	512	1850.20	29.64		
GPRS 1900 (1 Uplink slot)	661	1880.00	29.53		
(1 Opinik slot)	810	1909.80	29.42		
0000 4000	512	1850.20	27.27		
GPRS 1900 (2 Uplink slots)	661	1880.00	27.20	33.00	Pass
(2 Opinik 3i0t3)	810	1909.80	27.00		
ODDC 4000	512	1850.20	25.73		
GPRS 1900 (3 Uplink slots)	661	1880.00	25.64		
(o opinik siots)	810	1909.80	25.39		
GPRS 1900	512	1850.20	23.56		
(4 Uplink slots)	661	1880.00	23.42		
(+ Opinik siots)	810	1909.80	23.10		





6.6 Occupy Bandwidth



Measurement Data





EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
	128	824.2	244	314
GSM 850	190	836.6	250	312
	251	848.8	242	322
	512	1850.2	242	322
PCS 1900	661	1880.0	244	318
	810	1909.8	246	326

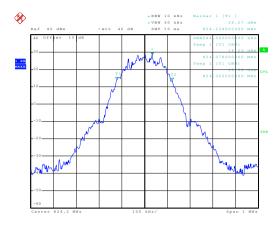
Note: GSM & GPRS use the same modulation technical (GMSK), and with the same channels, so the 99% OBW and the -26dB of GPRS not performed.

Test plot as follows:



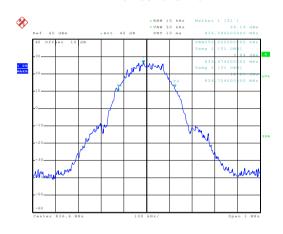
99% Occupy bandwidth

GSM850



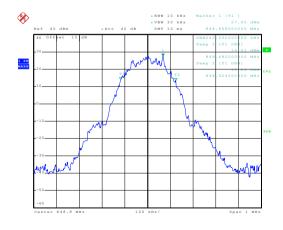
Date: 27.JAN.2015 21:29:19

Lowest channel



Date: 27.JAN.2015 21:30:0

Middle channel



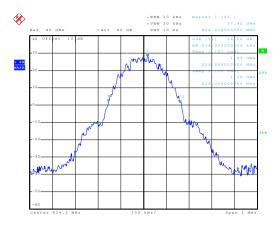
Date: 27.JAN.2015 21:30:23

Highest channel



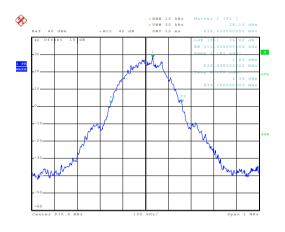
26dB Emission Bandwidth

GSM850



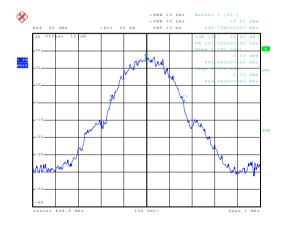
Date: 27.JAN.2015 21:29:29

Lowest channel



Date: 27.JAN.2015 21:29:52

Middle channel



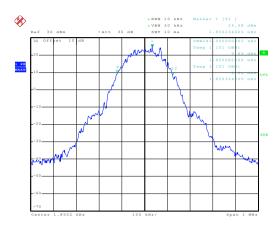
Date: 27.JAN.2015 21:30:33

Highest channel



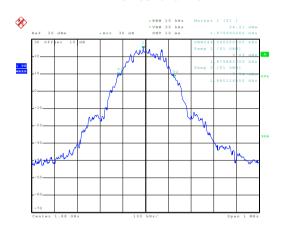
99% Occupy bandwidth

PCS 1900



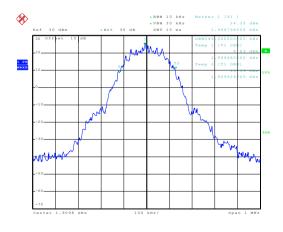
Date: 27.JAN.2015 21:35:55

Lowest channel



Date: 27.JAN.2015 21:36:3

Middle channel



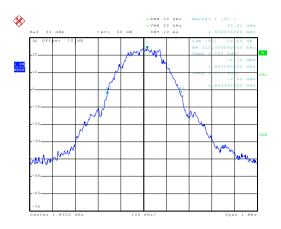
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Highest channel



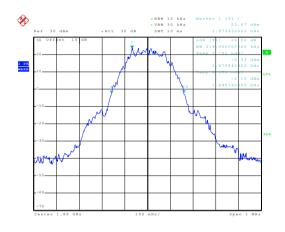
26dB Emission Bandwidth

PCS 1900



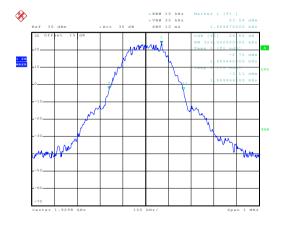
Date: 27.JAN.2015 21:36:06

Lowest channel



Date: 27.JAN.2015 21:36:22

Middle channel



Date: 27.JAN.2015 21:36:59

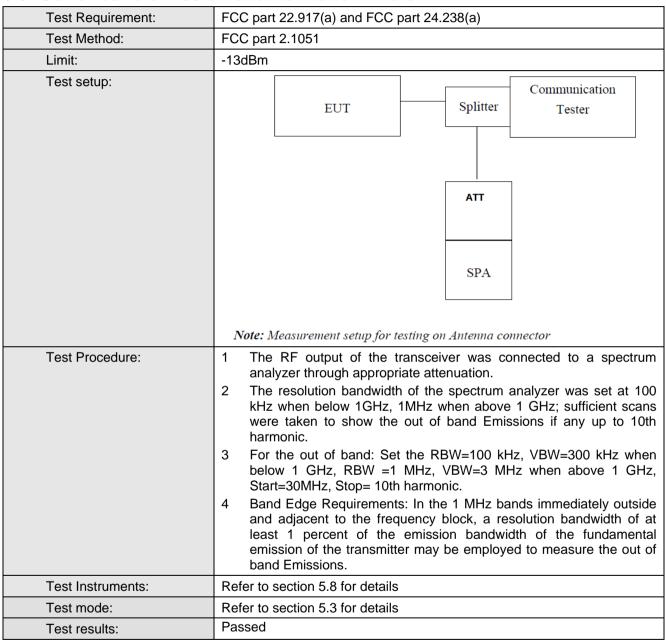
Highest channel



6.7 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.

6.8 Out of band emission at antenna terminals



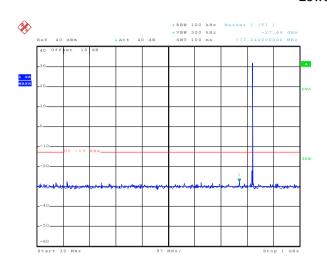
Test plots as follows:

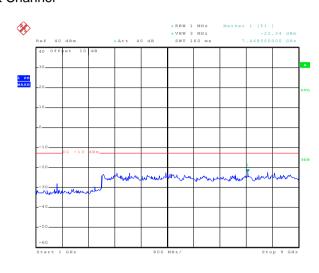


Spurious emission

GSM 850

Lowest Channel

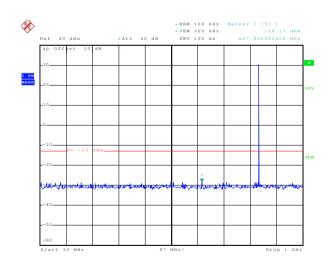


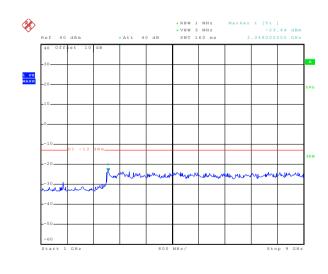


Date: 27..TAN.2015 21:27:59

30MHz~1GHz

Middle channel





Date: 27.JAN.2015 21:28:29

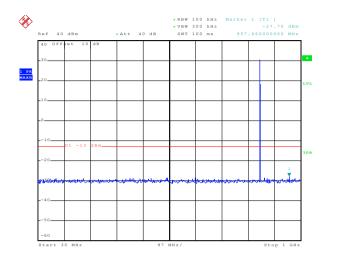
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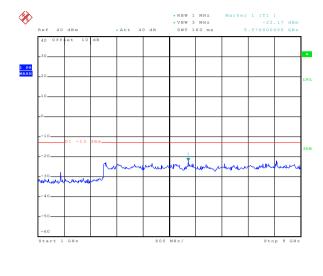
30MHz~1GHz

1GHz~9GHz



Highest Channel





Date: 27.JAN.2015 21:26:48

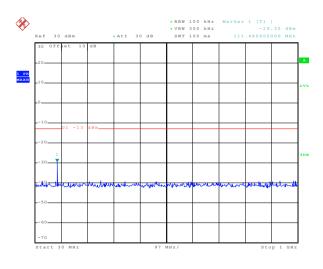
30MHz~1GHz

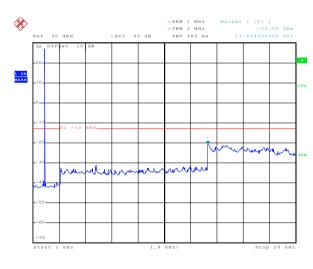
Date: 27.JAN.2015 21:28:43

1GHz~9GHz

PCS 1900

Lowest Channel





Date: 27.JAN.2015 21:33:45

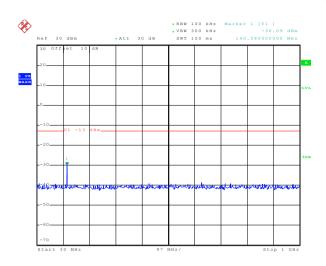
30MHz~1GHz

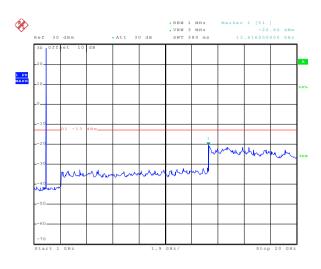
Date: 27.JAN.2015 21:34:38

1GHz~20GHz



Middle Channel





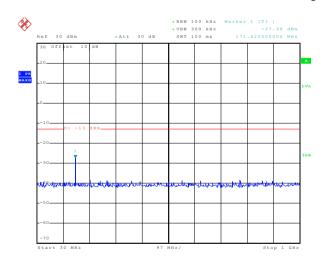
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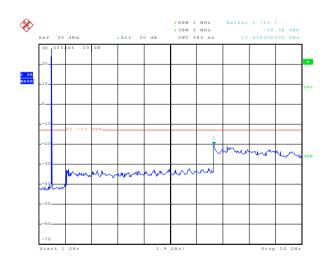
30MHz~1GHz

Date: 27.JAN.2015 21:34:54

1GHz~20GHz

Highest Channel





Date: 27..TAN.2015 21:33:17

30MHz~1GHz

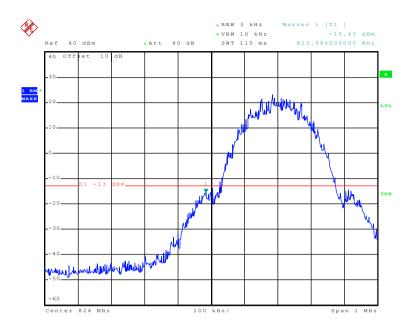
Date: 27..TAN.2015 21:35:16

1GHz~20GHz



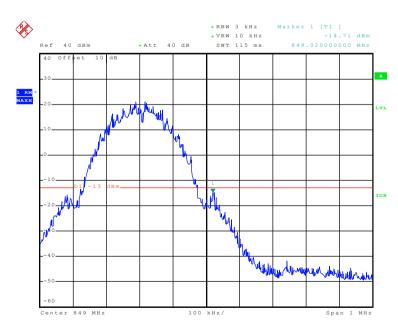
Band edge emission

GSM850



Date: 27.JAN.2015 21:25:18

Lowest channel

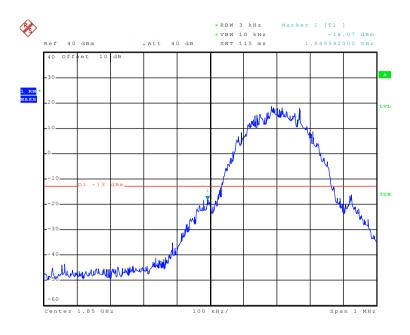


Date: 27.JAN.2015 21:25:45

Highest channel

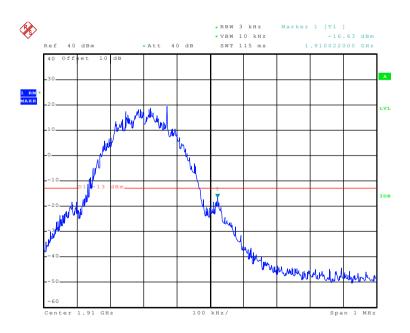


PCS1900



Date: 27.JAN.2015 21:32:15

Lowest channel



Date: 27.JAN.2015 21:32:45

Highest channel



6.9 ERP, EIRP Measurement

0.3	Litti , Liitti iweasurement					
	Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)				
	Test Method:	FCC part 2.1046				
	Limit:	GSM850 7W ERP PCS1900 2W EIRP				
	Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz				
		Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier				
		Substituted method:				
		Ground plane d: distance in meters d:3 meter 1-4 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna				





Test Procedure:	 The EUT was placed on an 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.
	2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.
	3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
	4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)
	5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case)

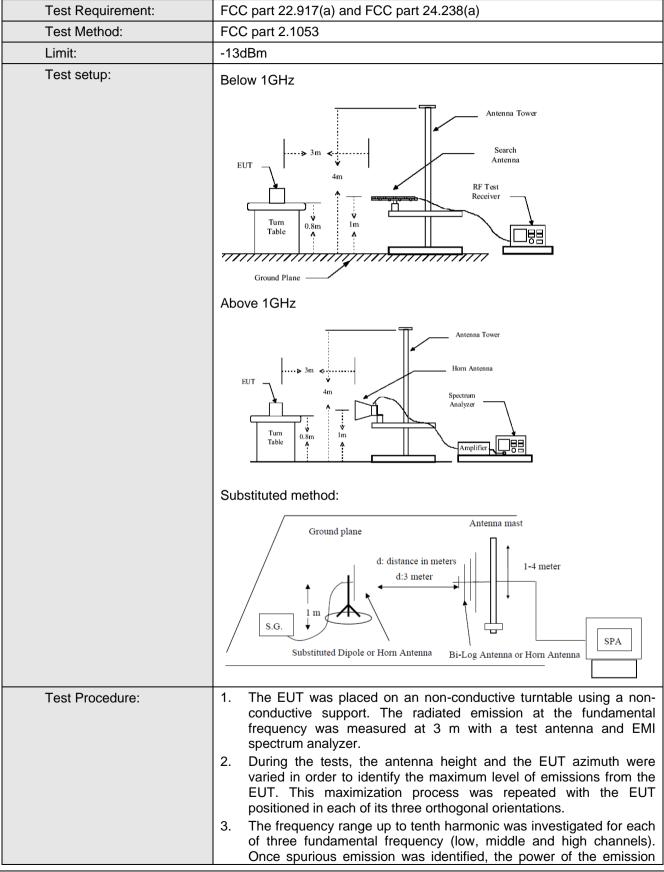


Report No: CCIS15010006801

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	24.89	, ,	Pass
		Н	Н	24.99		
CCMOFO	400	E1	V	24.86	20.45	
GSM850	128		Н	24.97	38.45	
		E2	V	24.83		
			Н	24.91		
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		Н	V	20.84	33.00	Pass
			Н	15.63		
PCS1900	E40	512 E1	V	20.81		
PC31900	512		Н	15.59		
		E2	V	20.77		
			Н	15.55		



6.10 Field strength of spurious radiation measurement



Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





	 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 / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details. Based on the ERP/EIRP results, we selected GSM850, PCS1900 for Radiated spurious emission test, other modes were not test.
Test results:	Passed





Measurement Data (worst case)

Test mode:	GSM850		Test channel:	Lowest	
Fraguency (MHz)	Spurious Emission		Limit (dDm)	D !!	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1648.40	Vertical	-40.89			
2472.60	V	-41.36			
3296.80	V	-45.98	-13.00	Pass	
4121.00	V	-48.90			
4945.20	V	-43.31			
1648.40	Horizontal	-40.08			
2472.60	Н	-35.80			
3296.80	Н	-44.22	-13.00	Pass	
4121.00	Н	-45.40			
4945.20	Н	-39.14			
Test mode:	GSN	1850	Test channel:	Middle	
Fragues av (MHz)	Spurious	Emission		Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)		
1673.20	Vertical	-40.38			
2509.80	V	-44.53		Pass	
3346.40	V	-42.37	-13.00		
4183.00	V	-48.12			
5019.60	V	-37.87			
1673.20	Horizontal	-40.55		Pass	
2509.80	Н	-35.01			
3346.40	Н	-42.06	-13.00		
4183.00	Н	-39.82			
5019.60	Н	-37.21			
Test mode:	GSN	1850	Test channel:	Highest	
[Spurious	Emission	Limit (dDas)	Danult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1697.60	Vertical	-41.73			
2546.40	V	-44.61			
3395.20	V	-46.15	-13.00	Pass	
4244.00	V	-45.37			
5092.80	V	-36.56]		
1697.60	Horizontal	-38.14			
2546.40	Н	-34.73]		
3395.20	Н	-43.09	-13.00	Pass	
4244.00	Н	-38.49			
5092.80	Н	-37.82	7		

Remark:

^{1.} The emission levels of below 1 GHz are very lower than the limit and not show in test report.





Test mode:	PCS1900		Test channel:	Lowest	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result	
Frequency (Miriz)	Polarization	Level (dBm)	Lilliit (dBill)	Result	
3700.40	Vertical	-31.50	-13.00	Pass	
5550.60	V	-33.06	-13.00		
3700.40	Horizontal	-41.24	-13.00	Door	
5550.60	Н	-34.29	-13.00	Pass	
Test mode:	PCS	1900	Test channel:	Middle	
Fraguency (MHz)	Spurious Emission		Limit (dPm)	Dogult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3760.00	Vertical	-36.43	-13.00	Door	
5640.00	V	-34.07	-13.00	Pass	
3760.00	Horizontal	-46.75	12.00	Door	
5640.00	Н	-35.42	-13.00	Pass	
Test mode:	PCS	1900	Test channel:	Highest	
Fraguency (MHz)	Spurious Emission		Limit (dPm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Kesuit	
3819.60	Vertical	-39.69	-13.00	Door	
5729.40	V	-31.66	-13.00	Pass	
3819.60	Horizontal	-45.38	-13.00	Pass	
5729.40	Н	-40.22	-13.00		

Remark:

^{1.} The emission levels of below 1 GHz are very lower than the limit and not show in test report.





6.11 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)		
Test Method:	FCC Part 2.1055(a)(1)(b)		
Limit:	2.5 ppm		
Test setup:	Spectrum analyzer EUT Att.		
Testanda	Variable Power Supply Note: Measurement setup for testing on Antenna connector		
Test procedure:	 The equipment under test was connected to an external 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 25°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°C reached 		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.		





Measurement Data:

asurement Data:					
Re	ference Frequency: G	SM850 Midd	dle channel=190 channe	el=836.6MHz	
Power supplied Temperature (°C) Frequency error			equency error	Limit (ppm)	Result
(Vdc)	Temperature (c)	Hz	ppm	Еппі (рріп)	Nesuit
	-30	161	0.192446		Pass
	-20	152	0.181688		
	-10	143	0.170930		
	0	134	0.160172		
3.70	10	98	0.117141	2.5	
	20	91	0.108774	- - -	
	30	103	0.123117		
	40	119	0.142242		
	50	138	0.164953		
Re	ference Frequency: P0	CS1900 Mid	dle channel=661 chann	el=1880MHz	
Power supplied	Towns a roture (°C)	Fr	equency error	Limit (mmm)	Result
(Vdc)	Temperature (℃)	Hz	ppm	Limit (ppm)	
	-30	178	0.094681		
	-20	92	0.048936		
	-10	151	0.080319	2.5 P	Pass
	0	157	0.083511		
3.70	10	133	0.070745		
	20	146	0.077660		
	30	95	0.050532		
	40	102	0.054255		
	50	101	0.053723	1	





6.12 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)					
Test Method:	FCC Part 2.1055(d)(1)(2)					
Limit:	2.5ppm					
Test setup:	Temperature Chamber					
	Spectrum analyzer EUT Variable Power Supply Note: Measurement setup for testing on Antenna connector					
Test procedure:	 Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change. 					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.					
Test results:	Passed					

Measurement Data (the worst channel):





Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz								
Temperature (°C)	Power supplied (Vdc)	Frequency error Hz ppm		Limit (ppm)	Result			
	4.25	102	0.121922					
25	3.70	67	0.080086	2.5	Pass			
	3.40	91	0.108774					
Refe	erence Frequency: Po	CS1900 Middle ch	annel=661 chann	el=1880MHz				
Temperature (°C)	Power supplied (Vdc)	Frequency error Hz ppm		Limit (ppm)	Result			
	4.25	92	0.048936					
25	3.70	55	0.029255	2.5	Pass			
	3.40	63	0.033511					