

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE160201501

FCC REPORT

(GSM)

Applicant: Shenzhen Concox Information Technology Co., Ltd

Address of Applicant: 4/F, BuildingB, Gaoxinqi Industrial Park, Liuxian 1st Road, No.

67 Bao'an Distract, Shenzhen, P.R China

Equipment Under Test (EUT)

Product Name: GSM Digital Mobile Telephone

Model No.: JI08, JI88, JI07, JI10

FCC ID: X7ICTJI08W

FCC CFR Title 47 Part 2

Applicable standards: FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

Date of sample receipt: 17 Feb., 2016

Date of Test: 17 Feb., to 26 Feb., 2016

Date of report issued: 26 Feb., 2016

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.

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2. Version

Version No.	Date	Description
00	26 Feb., 2016	Original

Steven Giu Test Engineer Tested by: Date: 26 Feb., 2016

26 Feb., 2016 Reviewed by: Date:

Project Engineer



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4. Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Peak-to-Average Power Ratio	Part 24.232 (d)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	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.





5. General Information

5.1 Client Information

Applicant:	Shenzhen Concox Information Technology Co., Ltd
Address of Applicant:	4/F, BuildingB, Gaoxinqi Industrial Park, Liuxian 1st Road, No.67 Bao'an Distract, Shenzhen, P.R China

5.2 General Description of E.U.T.

Product Name:	GSM Digital Mobile Telephone
Model No.:	JI08, JI88, JI07, JI10
Operation Frequency range:	GSM 850: 824.20MHz-848.80MHz
	PCS1900: 1850.20MHz-1909.80MHz
Modulation type:	GSM/GPRS:GMSK
Antenna type:	Internal Antenna
Antenna gain:	GSM 850: 1.0 dBi
	PCS 1900:0.5 dBi
	GPS: 3.4 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1250mAh
AC adapter:	Model: HJ-050100-US
	Input:100-240V AC, 50/60Hz 0.15A
	Output:5V DC MAX 1.0A
Remark:	Item No.: JI08, JI88, JI07, JI10 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being the model name, color, keypad design (keypad size and color)





Operation Frequency List:

GSN	Л 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	

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		
Channe	el	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



5.3 Test modes

Voice mode	Keep the EUT in voice mode on GSM 850 and PCS 1900 respectively.
Data mode (GPRS)	Keep the EUT in GPRS mode on GSM 850 and PCS 1900 respectively.
Remark:	Just the worst case mode shown in report.

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.

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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 Description of Support Units

N/A

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





5.9 Test Instruments list

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016
Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016
Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016
Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016
EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016
Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016
Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	03-28-2015	03-28-2016



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6. System test configuration

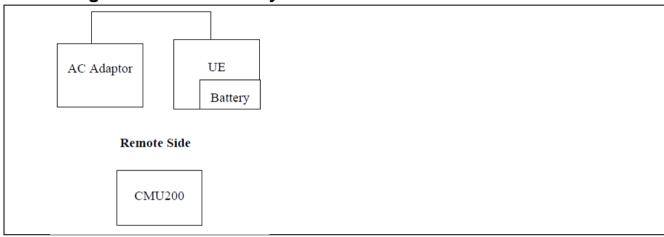
6.1 EUT Configuration

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



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 and Data cable. The worst-case H mode for GSM850, PCS1900.

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No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
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6.5 Conducted Output Power

Test Requirement:	FCC part 22.913(a), 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 simulated station. 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

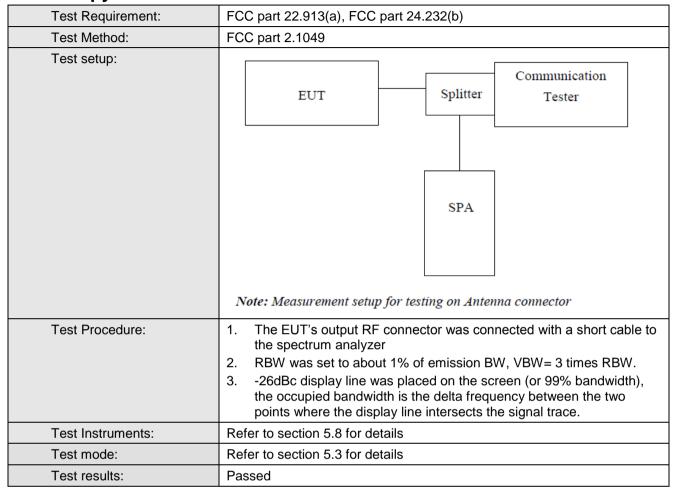




	Bur			
EUT Mode	128	190	251	Limit(dBm)
	824.20MHz	836.60MHz	848.80MHz	
GSM 850	31.22	31.25	31.23	
GPRS 850 (1 Uplink slot)	31.26	31.26	31.22	
GPRS 850 (2 Uplink slot)	30.52	30.55	30.52	38.45
GPRS 850 (3 Uplink slot)	29.04	29.06	29.04	
GPRS 850 (4 Uplink slot)	28.26	28.26	28.25	
	Bur			
			•	
EUT Mode	512	661	810	Limit(dBm)
EUT Mode	512 1850.20MHz	661 1880.00MHz	810 1909.80MHz	Limit(dBm)
EUT Mode PCS 1900				Limit(dBm)
	1850.20MHz	1880.00MHz	1909.80MHz	Limit(dBm)
PCS 1900	1850.20MHz 31.29	1880.00MHz 30.32	1909.80MHz 30.75	Limit(dBm) 33.00
PCS 1900 GPRS 1900 (1 Uplink slot)	1850.20MHz 31.29 31.20	1880.00MHz 30.32 30.10	1909.80MHz 30.75 30.65	



6.6 Occupy Bandwidth



Measurement Data





EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
	128	824.2	242	320
GSM 850	190	836.6	240	314
	251	848.8	240	320
	512	1850.2	242	308
PCS 1900	661	1880.0	246	320
	810	1909.8	242	320

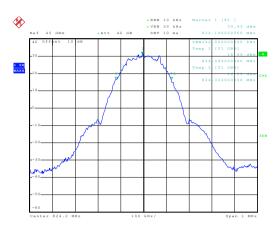
Note: GSM & GPRS use the same modulation technical (GMSK), and with the same channels, so the 99% OBW and the -26dB of GPRS not performed.

Test plot as follows:



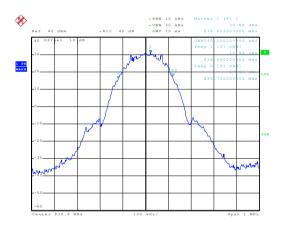
99% Occupy bandwidth

GSM850



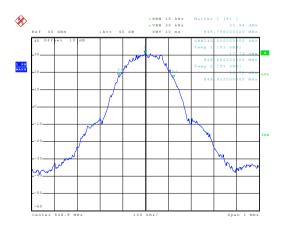
Date: 17.FEB.2016 01:27:49

Lowest channel



Date: 17.FEB.2016 01:28:41

Middle channel



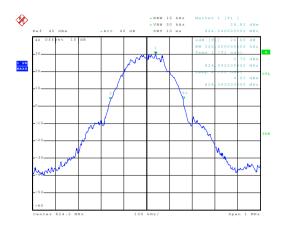
Date: 17.FEB.2016 01:29:42

Highest channel



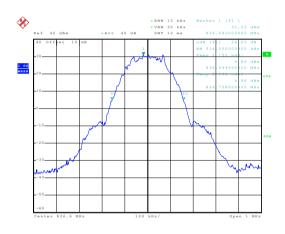
26dB Emission Bandwidth

GSM850



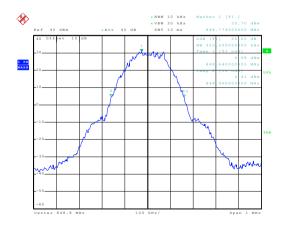
Date: 17.FEB.2016 01:32:42

Lowest channel



Date: 17.FEB.2016 01:31:55

Middle channel



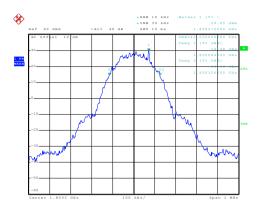
Date: 17.FEB.2016 01:30:40

Highest channel



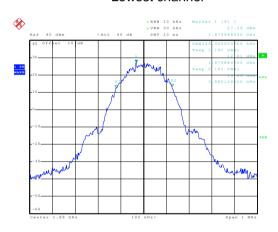
99% Occupy bandwidth

PCS 1900



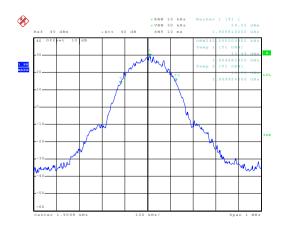
Date: 21.FEB.2016 21:01:32

Lowest channel



Date: 21.FEB.2016 21:01:53

Middle channel



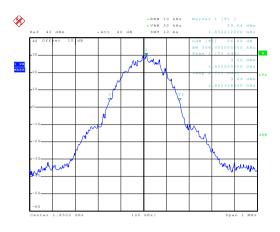
Date: 21.FEB.2016 21:02:24

Highest channel



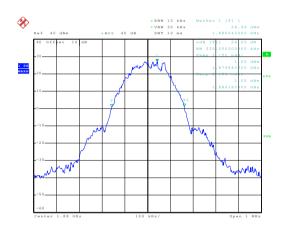
26dB Emission Bandwidth

PCS 1900



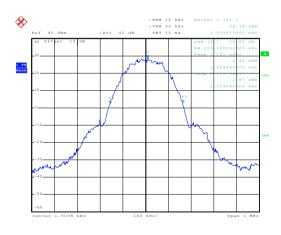
Date: 21.FEB.2016 20:50:44

Lowest channel



Date: 21.FEB.2016 20:49:57

Middle channel



Date: 21.FEB.2016 20:49:34

Highest channel



6.7 Peak-to-Average Power Ratio

Test Requirement:	FCC part 24.232(d)
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test setup:	EUT Splitter Communication Tester ATT SPA Note: Measurement setup for testing on Antenna connector
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Set the CCDF option in spectrum analyzer, RBW ≥ OBW, Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. Repeat step 1~3 at other frequency and modulations.
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)

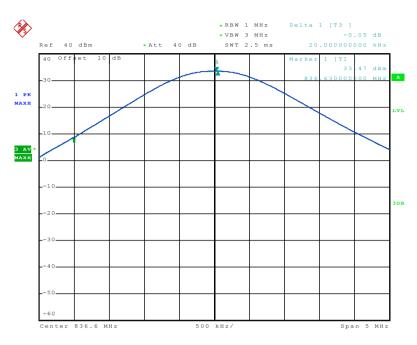
Modulation	Test channel	PAPR
GSM 850	190	0.05
PCS 1900	661	0.10



Test plots as below:

Middle channel

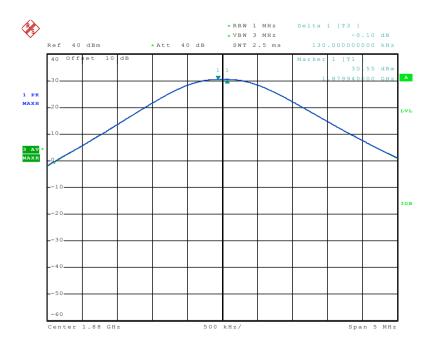
Modulation: GSM 850



Date: 17.FEB.2016 18:29:22

Middle channel

Modulation: PCS 1900



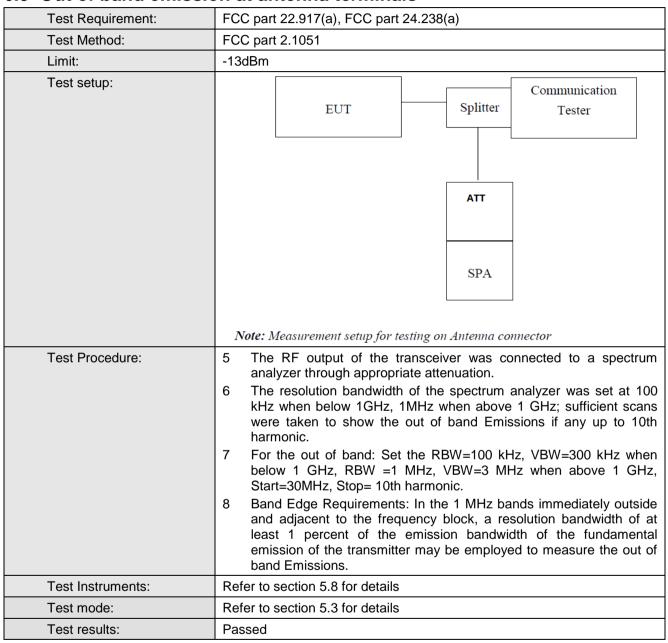
Date: 21.FEB.2016 21:10:31



6.8 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.

6.9 Out of band emission at antenna terminals



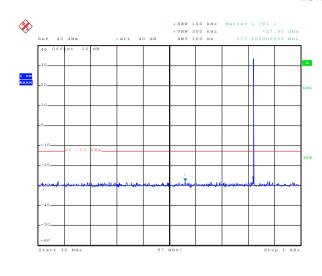
Test plots as follows:

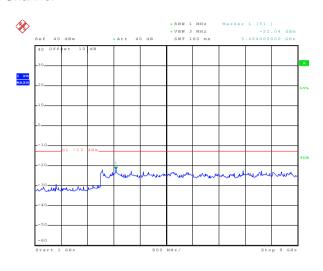


Spurious emission

GSM 850

Lowest Channel





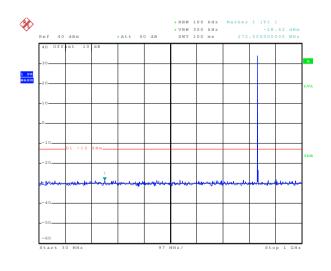
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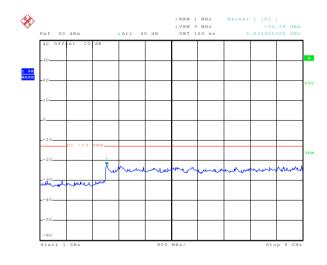
30MHz~1GHz

Date: 17.FEB.2016 01:41:43

1GHz~9GHz

Middle channel





Date: 17.FEB.2016 01:39:11

30MHz~1GHz

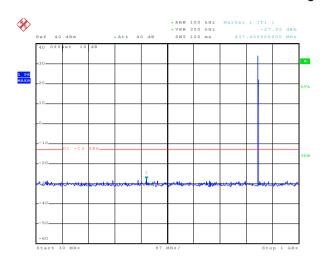
Date: 17.FEB.2016 01:42:39

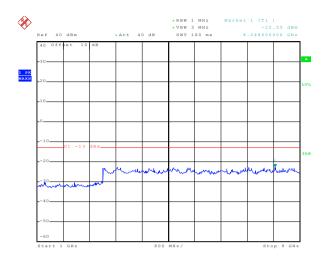
1GHz~9GHz





Highest Channel





Date: 17.FEB.2016 01:39:52

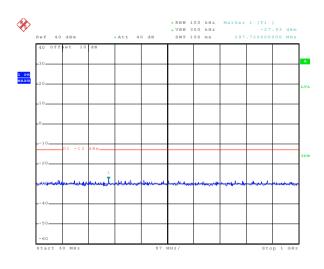
30MHz~1GHz

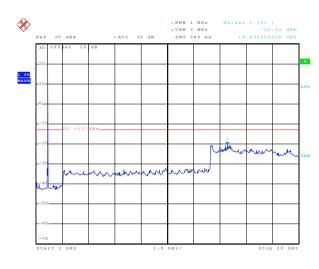
Date: 17.FEB.2016 01:43:41

1GHz~9GHz

PCS 1900

Lowest Channel





Date: 21.FEB.2016 20:53:05

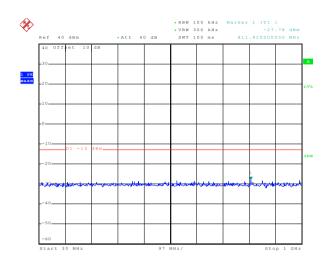
30MHz~1GHz

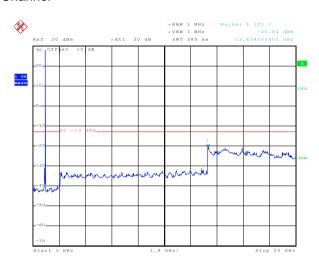
Date: 21.FEB.2016 20:56:55

1GHz~20GHz



Middle Channel

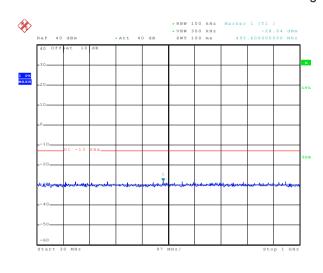


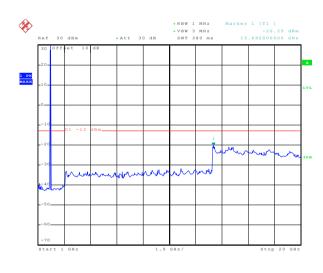


Date: 21.FEB.2016 20:53:39

30MHz~1GHz

Highest Channel





Date: 21.FEB.2016 20:54:40

30MHz~1GHz

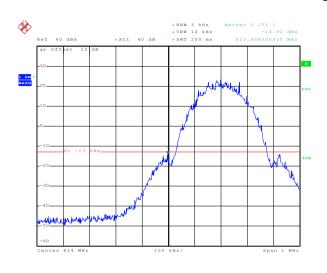
Date: 21.FEB.2016 20:58:45

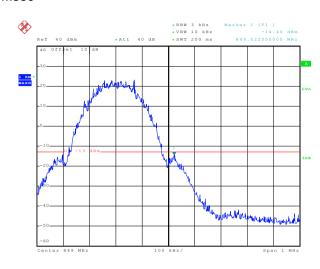
1GHz~20GHz



Band edge emission

GSM850





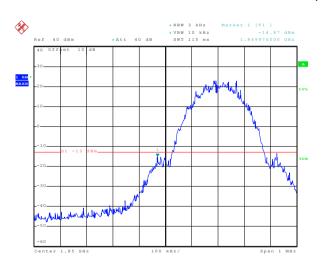
Date: 17.FEB.2016 01:49:20

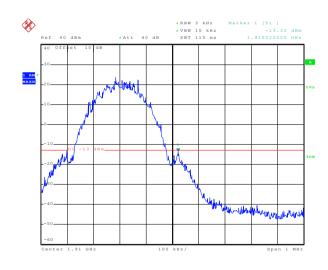
Lowest channel

Date: 17.FEB.2016 01:51:16

Highest channel

PCS1900





Date: 21.FEB.2016 21:04:18

Lowest channel

Date: 21.FRB.2016 21:05:06

Highest channel



6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 22.913(a), FCC part 24.232(b)
Test Method:	FCC part 2.1046
Limit:	GSM850 7W: ERP PCS1900 2W: EIRP
Test setup:	Below 1GHz Antenna Tower Forum Plane Above 1GHz Antenna Tower Antenna Tower





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 (All three channels were tested, and just the worst case data were shown in the report.)	

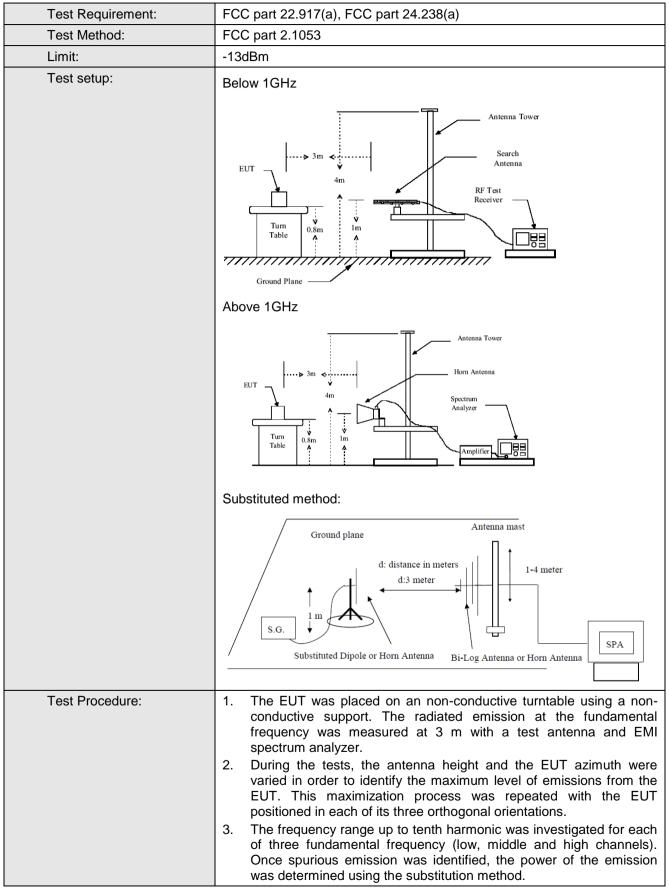
Measurement Data (worst case)

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850	251	Ш	V	28.23	38.45	Pass
GSIVIOSU	251	Н	Н	26.91	30.43	Fa55

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
PCS1900	512	Ш	V	22.71	33	Pass
FC31900	512	Н	Н	27.58		rass



6.11 Field strength of spurious radiation measurement







	4. 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 Uncertainty:	± 4.88 dB
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)

Test mode:	GSM850		Test channel:	Lowest	
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result	
riequency (MHZ)	Polarization	Level (dBm)	Lilliit (ubili)	Result	
1648.40	Vertical	-39.63			
2472.60	V	-33.98			
3296.80	V	-46.22	-13.00	Pass	
4121.00	V	-36.17			
4945.20	V	-36.25			
1648.40	Horizontal	-51.66			
2472.60	Н	-33.88			
3296.80	Н	-39.45	-13.00	Pass	
4121.00	Н	-37.91			
4945.20	Н	-41.50			
Test mode:	GSN	1850	Test channel:	Middle	
(NALL=)	Spurious	Emission			
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
1673.20	Vertical	-43.63		Pass	
2509.80	V	-33.19			
3346.40	V	-43.48	-13.00		
4183.00	V	-37.47			
5019.60	V	-36.11			
1673.20	Horizontal	-53.58			
2509.80	Н	-32.66	-13.00	Pass	
3346.40	Н	-40.45			
4183.00	Н	-39.36			
Test mode:	GSN	1850	Test channel:	Highest	
Frequency (MHz)	Spurious	Spurious Emission		Result	
Frequency (IVIF12)	Polarization	Level (dBm)	Limit (dBm)	Result	
1697.60	Vertical	-46.88			
2546.40	V	-34.59			
3395.20	V	-44.52	-13.00	Pass	
4244.00	V	-35.61			
5092.80	V	-37.55			
2546.40	Н	-34.77			
3395.20	Н	-42.23	-13.00 Pass		
4244.00	Н	-39.89			

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	
Fraguency (MUz)	Spurious	Emission	Limit (dRm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)		
3700.40	Vertical	-41.56	-13.00	Door	
5550.60	V	-39.16	-13.00	Pass	
3700.40	Horizontal	-41.40	-13.00	Pass	
5550.60	Н	-43.00	-13.00	Pass	
Test mode:	PCS	1900	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	LIIIII (UDIII)	Result	
3760.00	Vertical	-46.82	-13.00	Pass	
5640.00	٧	-37.88	-13.00	F d 5 5	
3760.00	Horizontal	-45.27	-13.00	Pass	
5640.00	I	-43.13	-13.00	F d 5 5	
Test mode:	PCS	1900	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dPm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dBm)	Result	
3819.60	Vertical	-46.24	-13.00	Pass	
5729.40	V	-40.36	-13.00	rass	
3819.60	Horizontal	-43.81	12.00	Door	
5729.40	Н	-42.37	-13.00	Pass	

Remark:

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



6.12 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:	Temperature Chamber Spectrum analyzer EUT Att. 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:

1/6	rierence Frequency. G	Sivioso ivildule	channel=190 channel	EI=030.0IVITIZ	
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Dogult
(Vdc)	remperature (C)	Hz	ppm	Еппі (рріп)	Result
	-30	168	0.200813		
	-20	152	0.181688		
	-10	103	0.123117		
	0	132	0.157781		
3.70	10	114	0.136266	±2.5	Pass
	20	145	0.173321		
	30	109	0.130289		
	40	117	0.139852		
	50	159	0.190055		
Re	eference Frequency: PO	CS1900 Middle	e channel=661 chann	nel=1880MHz	
Power supplied	Tamparatura (°C)	Frequency error		Limit (nnm)	Decult
(Vdc)	Temperature (℃)	Hz	ppm	Limit (ppm)	Result
	-30	180	0.095745		
	-20	120	0.063830		
	-10	132	0.070213		
	0	125	0.066489		
3.70	10	164	0.087234	±2.5	Pass
	20	171	0.090957		
	30	155	0.082447	- -	
	40	102	0.054255		
	50	117	0.062234		



6.13 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			Limit (ppm)	Result
	(Vuc)	ПZ	ppm	(PP)	
25	4.25	65	0.077695	±2.5	Pass
	3.70	78	0.093235		
	3.40	98	0.117141		
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied	Frequency error		Limit (mmm)	Dooult
	(Vdc)	Hz	ppm	Limit (ppm)	Result
25	4.25	77	0.040957	±2.5	Pass
	3.70	48	0.025532		
	3.40	79	0.042021		