Report No: CCIS13070021201

FCC REPORT (Mobile Phone)

Applicant:	Verykool USA Inc
Address of Applicant:	3636 Nobel Drive, Suite 325,San Diego, CA 92122 USA

Equipment Under Test (EUT)

Product Name:	Mobile Phone
Model No.:	i126S
FCC ID:	WA6I126S
Applicable standards:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E
Date of sample receipt:	12 Jul., 2013
Date of Test:	12 Jul., to 17 Jul., 2013
Date of report issued:	17 Jul., 2013
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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

2. Version

Version No.	Date	Description
00	*17 Jul.,2013*	*Original*

Prepared by: Sera ***Date:*** *17 Jul., 2013*

Report Clerk

Reviewed by: Vincent chen ***Date:*** *17 Jul., 2013*

Project Engineer

3. Contents

Page

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 Emission	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:	Verykool USA Inc
Address of Applicant:	3636 Nobel Drive,Suite 325,San Diego,CA 92122 USA
Manufacturer:	Wingtech Group
Address of Manufacturer:	1-3F,YinFeng,Mansion,No.5097,Luosha Road,Luohu district, Shenzhen, 518003

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	i126S
Operation Frequency range:	GSM 850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz
Type of Emission:	244KGXW
IMEI:	IMEI 1: 355202014004876, IMEI 2: 355202014054871
Antenna type:	Internal Antenna
Antenna gain:	GSM850: 0.8 dBi PCS1900: 0.5 dBi
AC adapter:	Model No.: XT-AB-0108-018-K Input:100-300V AC,50/60Hz 0.2A Output: 5.0V DC MAX 500mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/650mAh
Remark:	The EUT has two versions, double SIM and single SIM. The electrical circuit design, layout, components used and internal wiring was identical .We selected double SIM Version for full test.

Operation Frequency List:

GSM 850		PCS 1900	
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		
	Channel	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 mode

Communicate mode (GSM850)	Keep the EUT in communicating mode on GSM 850 band.
Communicate mode (PCS1900)	Keep the EUT in communicating mode on PCS1900 band.

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.

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: 0755-23118282

Fax: 0755-23116366

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	June 09 2013	June 08 2014
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
10	Amplifier(10kHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
11	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014
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	CCIS0023	May. 25 2013	May. 24 2014
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2012	Aug. 11 2013
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 25 2013	May. 24 2014
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014

6. System test configuration and test results

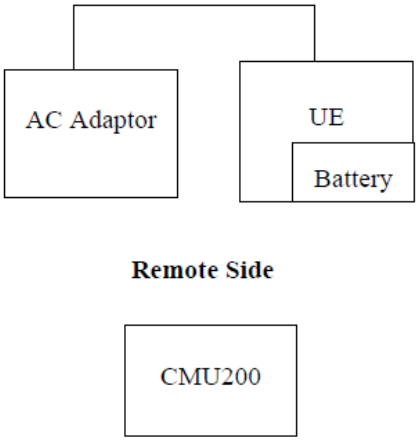
6.1 EUT Configuration

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.

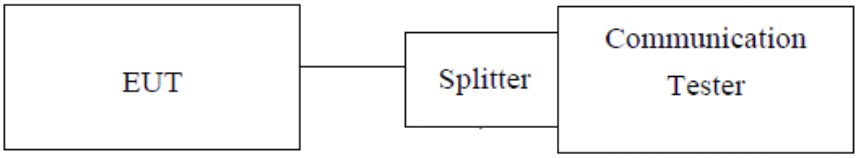
6.3 Configuration of Tested System



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 both GSM/PCS with power adaptor, earphone and Data cable. The worst-case H mode for GSM 850 band, PCS1900 band.

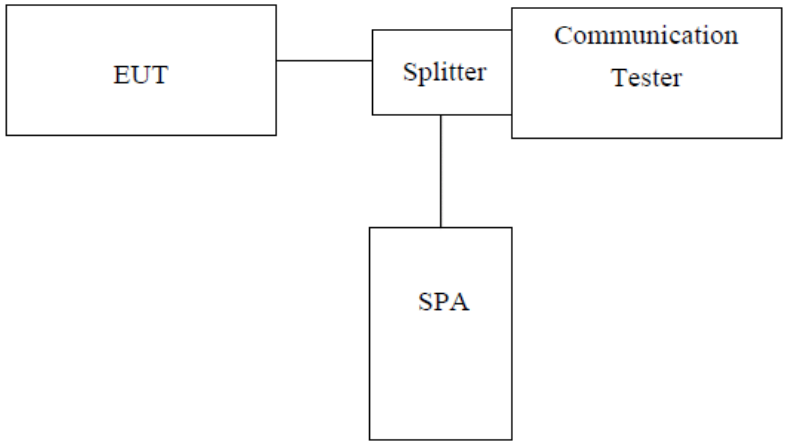
6.5 Conducted Peak Output Power

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:	 *Note: Measurement setup for testing on Antenna connector*
Test Procedure:	The transmitter output was connected to a calibrated attenuator; the other end was connected to the simulator base station. Transmitter output was read off the power meter 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

EUT Mode	Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
GSM 850	128	824.20	31.81	38.45	Pass
	190	836.60	31.97		
	251	**848.80**	**32.06**		
PCS 1900	**512**	**1850.20**	**30.23**	33.00	Pass
	661	1880.00	30.12		
	810	1909.80	29.88		

6.6 Occupy Bandwidth

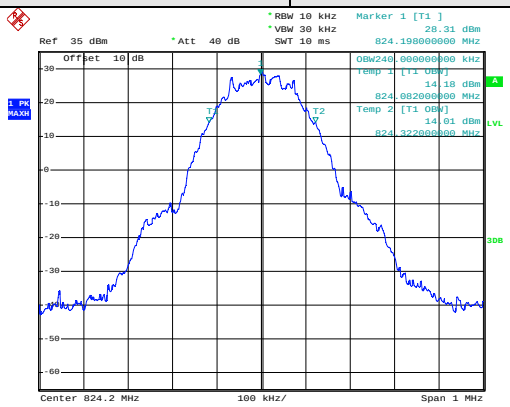
Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)
Test Method:	FCC part 2.1049
Test setup:	 *Note: Measurement setup for testing on Antenna connector*
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
GSM 850	128	824.20	240	322
	190	836.60	244	314
	251	848.80	244	318
PCS 1900	512	1850.20	244	318
	661	1880.00	240	318
	810	1909.80	242	318

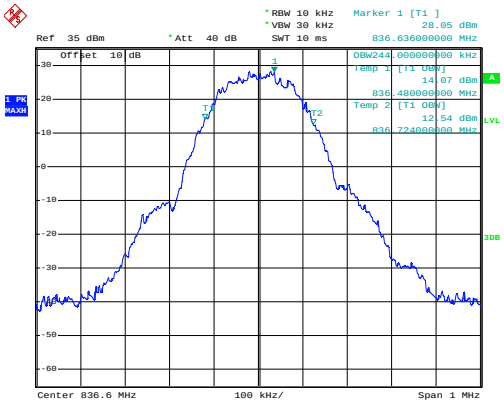
Test plot as follows:

Test Item:	99% Occupy bandwidth	Test Mode:	GSM850



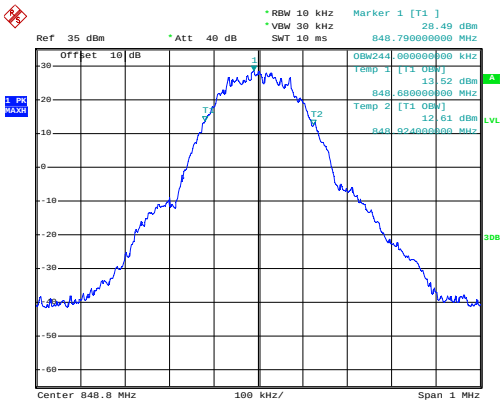
Date: 12.JUL.2013 17:47:48

Lowest channel



Date: 12.JUL.2013 17:47:12

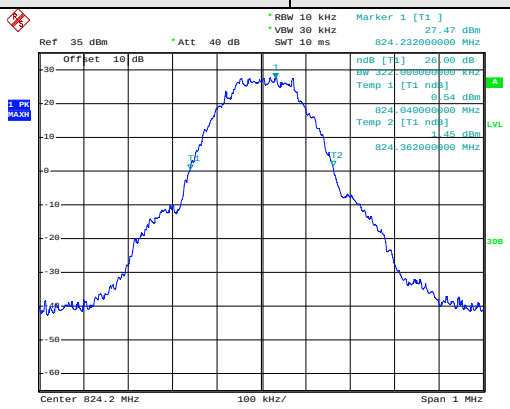
Middle channel



Date: 12.JUL.2013 17:46:34

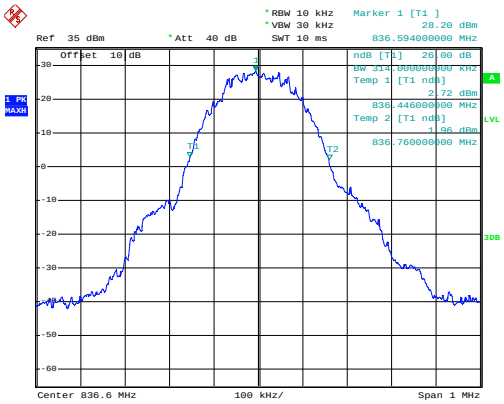
Highest channel

Test Item:	-26dB bandwidth	Test Mode:	GSM850



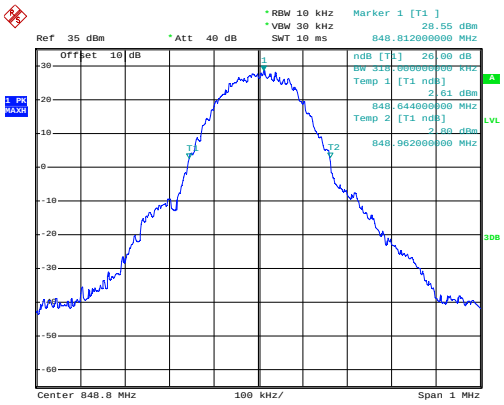
Date: 12.JUL.2013 17:44:50

Lowest channel



Date: 12.JUL.2013 17:45:24

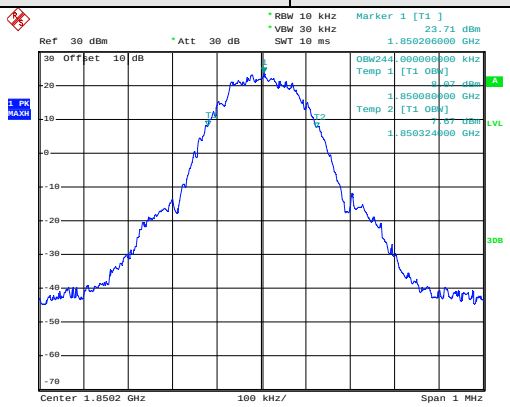
Middle channel



Date: 12.JUL.2013 17:45:54

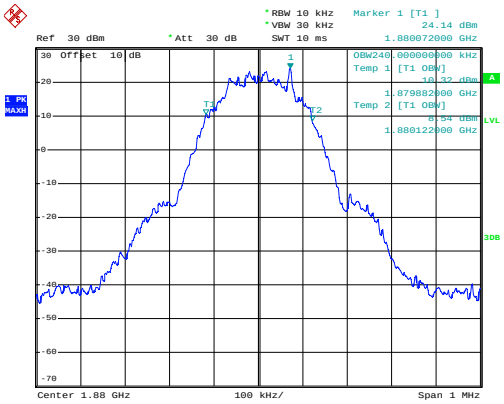
Highest channel

Test Item:	99% Occupy bandwidth	Test Mode:	PCS 1900



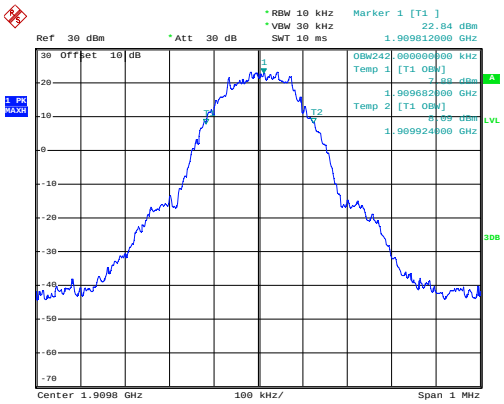
Date: 12.JUL.2013 18:06:16

Lowest channel



Date: 12.JUL.2013 18:05:39

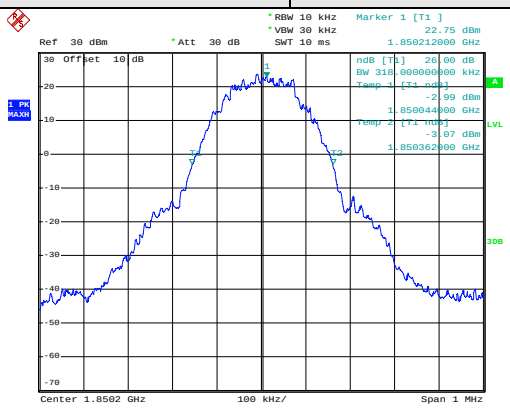
Middle channel



Date: 12.JUL.2013 18:05:12

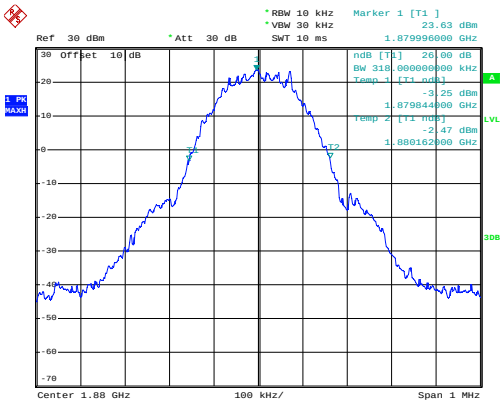
Highest channel

Test Item:	-26dB bandwidth	Test Mode:	PCS 1900



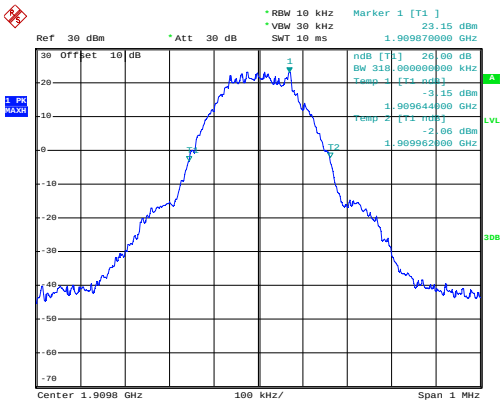
Date: 12.JUL.2013 18:03:18

Lowest channel



Date: 12.JUL.2013 18:04:03

Middle channel



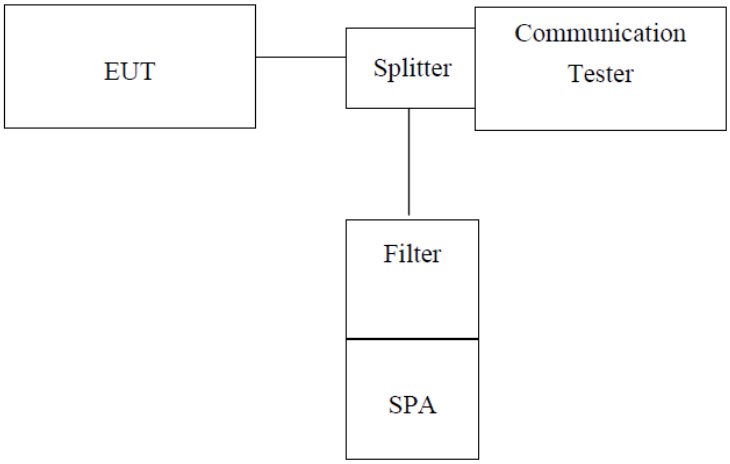
Date: 12.JUL.2013 18:04:41

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.

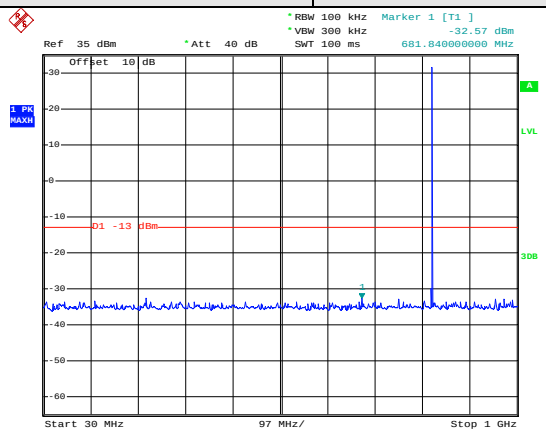
6.8 Out of band emission at antenna terminals

Test Requirement:	FCC part 22.917(a) and FCC part 24.238(a)
Test Method:	FCC part 2.1051
Limit:	-13 dBm
Test setup:	 ***Note:*** *Measurement setup for testing on Antenna connector*
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1 MHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW = 100 kHz, VBW = 300 kHz when below 1 GHz, RBW = 1 MHz, VBW = 3 MHz when above 1 GHz, Start = 30 MHz, Stop = 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

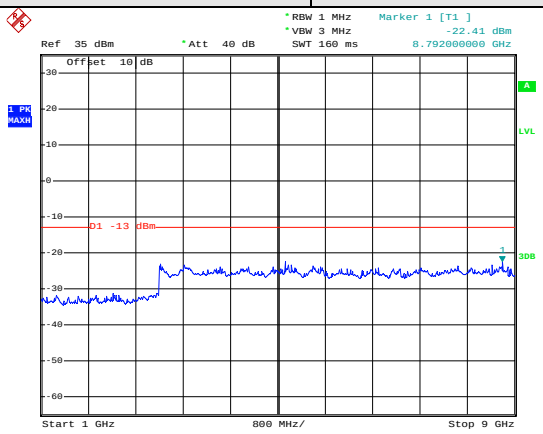
Test plot as follows:

Spurious emission

Test Mode:	GSM850	Test Channel:	Lowest channel

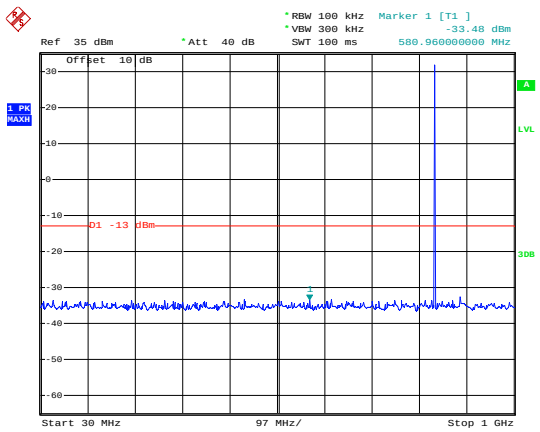


30MHz~1GHz

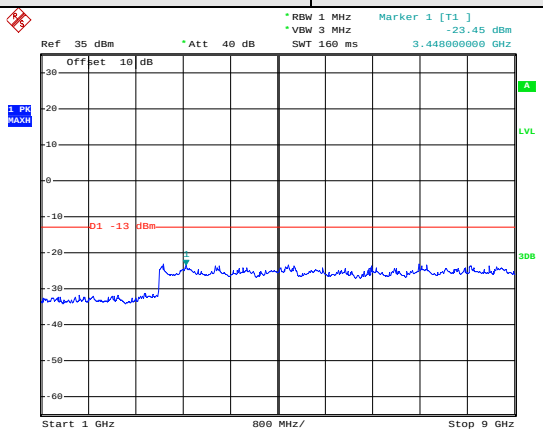


1GHz~9GHz

Test Mode:	GSM850	Test Channel:	Middle channel

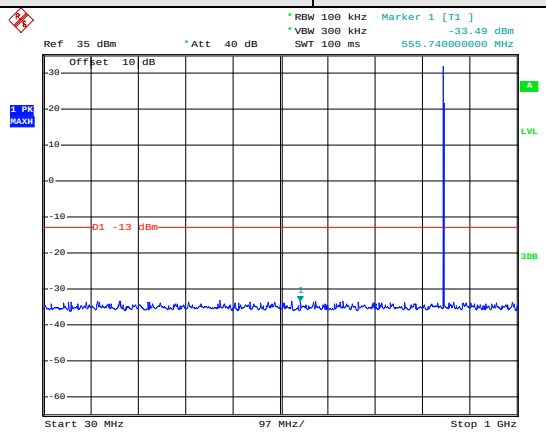


30MHz~1GHz



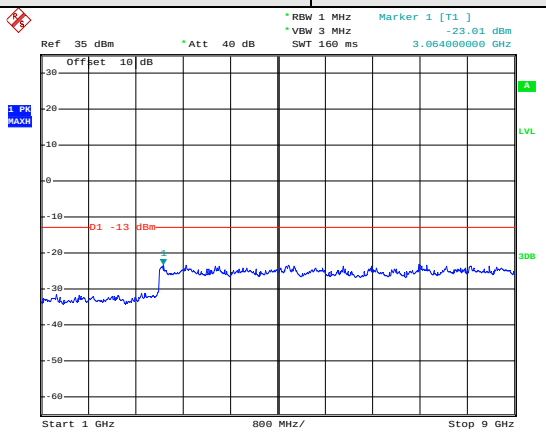
1GHz~9GHz

Test Mode:	GSM850	Test Channel:	Highest channel



Date: 12.JUL.2013 17:52:58

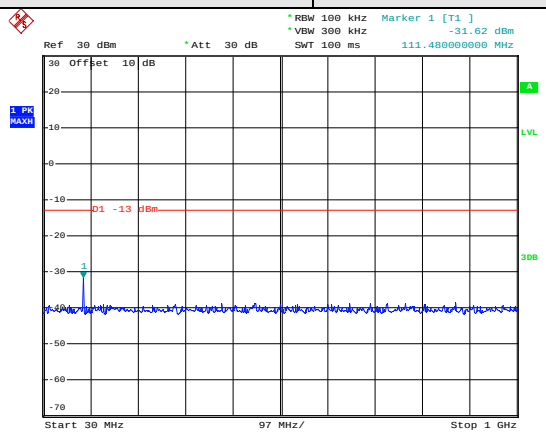
30MHz~1GHz



Date: 12.JUL.2013 17:55:23

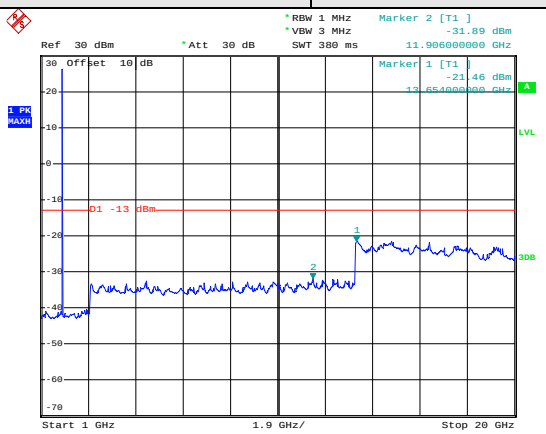
1GHz~9GHz

Test Mode:	PCS1900	Test Channel:	Lowest channel



Date: 12.JUL.2013 18:02:03

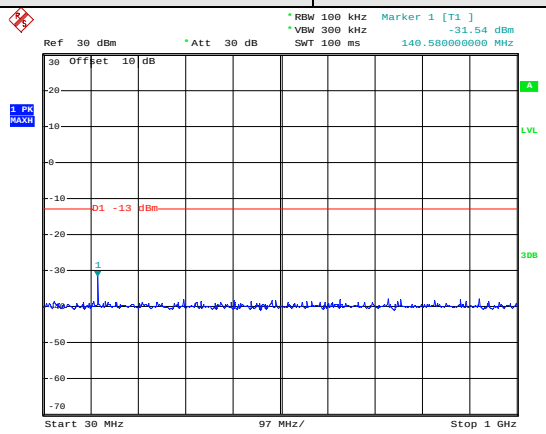
30MHz~1GHz



Date: 12.JUL.2013 17:58:10

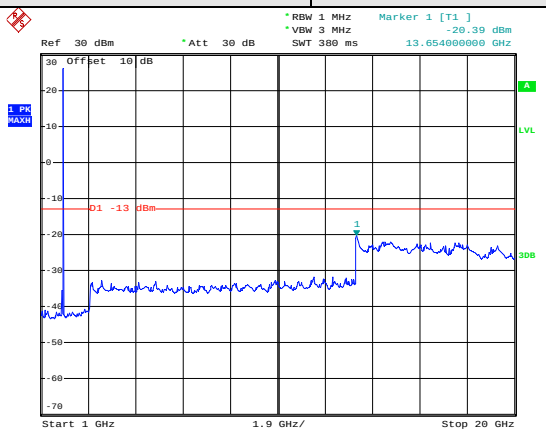
1GHz~20GHz

Test Mode:	PCS1900	Test Channel:	Middle channel



Date: 12.JUL.2013 18:01:39

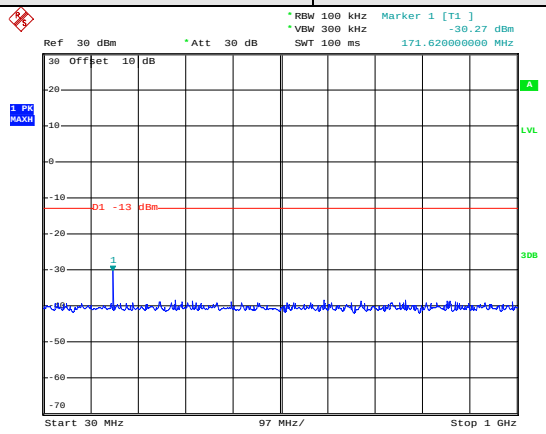
30MHz~1GHz



Date: 12.JUL.2013 17:58:49

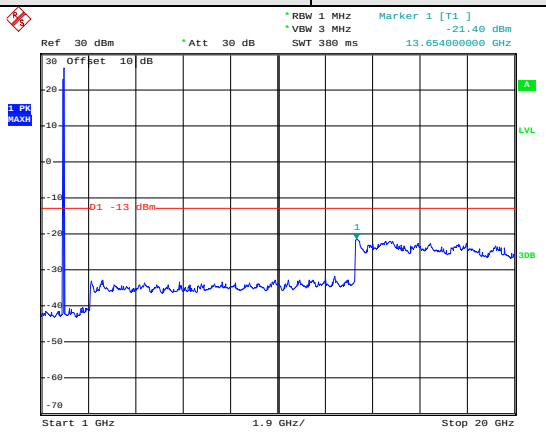
1GHz~20GHz

Test Mode:	PCS1900	Test Channel:	Highest channel



Date: 12.JUL.2013 18:00:18

30MHz~1GHz

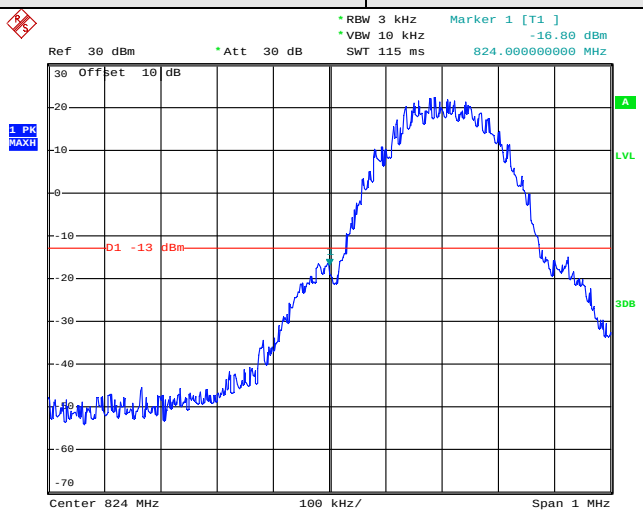


Date: 12.JUL.2013 17:59:37

1GHz~20GHz

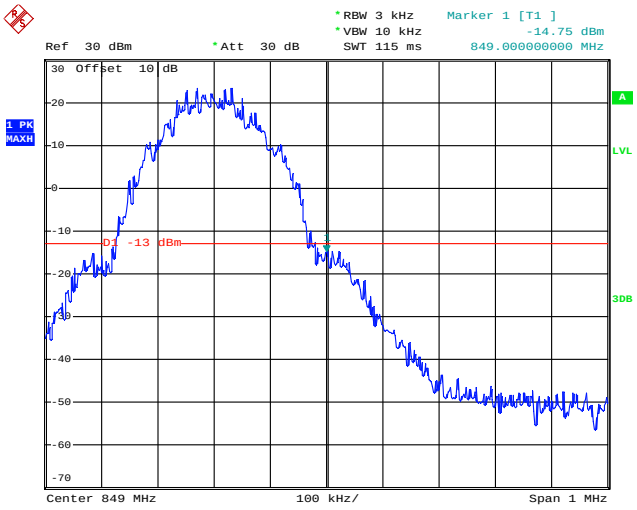
Band edge emission:

Test Mode:	GSM850



Date: 12.JUL.2013 17:49:48

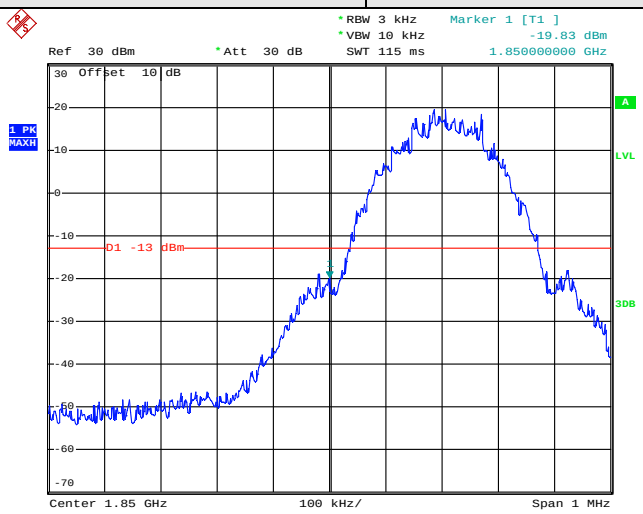
Lowest channel



Date: 12.JUL.2013 17:51:39

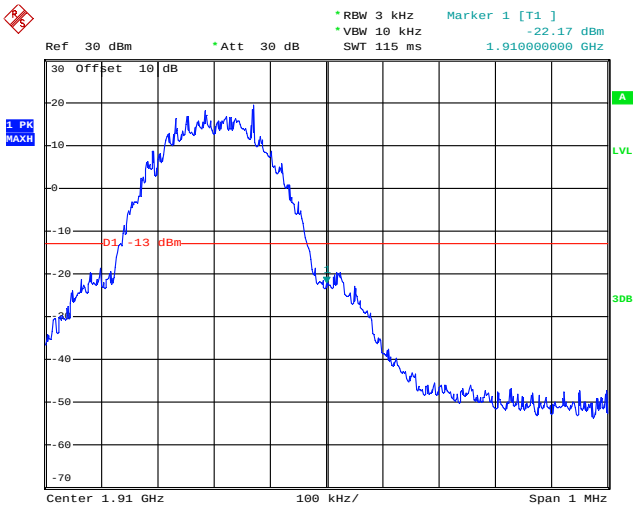
Highest channel

Test Mode:	PCS1900



Date: 12.JUL.2013 18:07:00

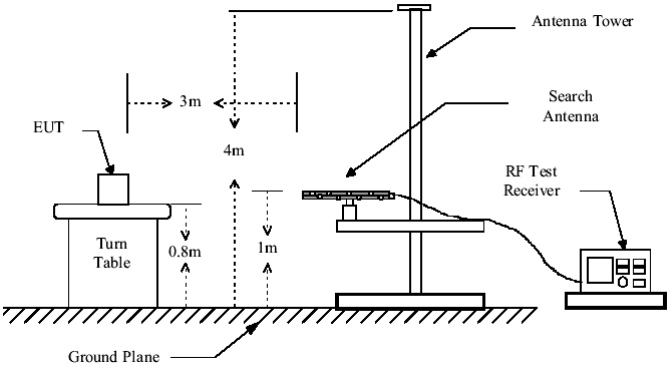
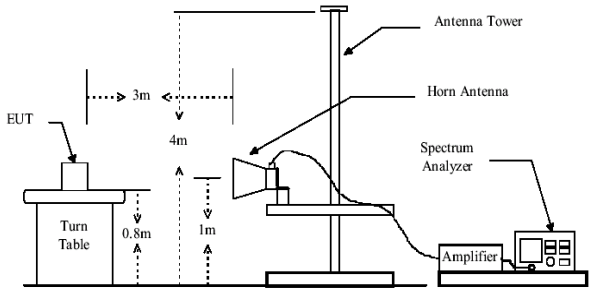
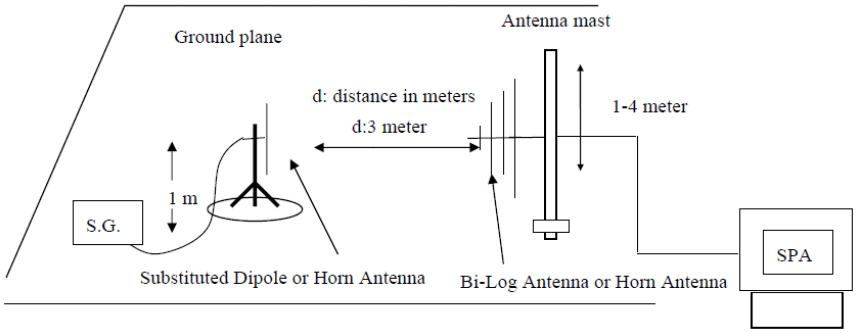
Lowest channel



Date: 12.JUL.2013 18:08:40

Highest channel

6.9 ERP, EIRP Measurement

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  Above 1GHz  Substituted method: 

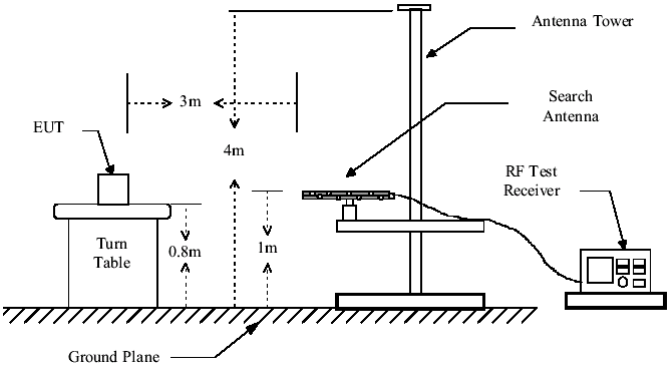
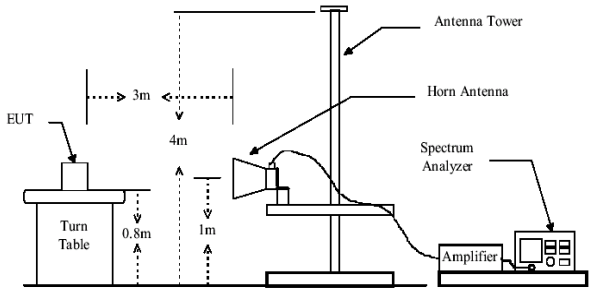
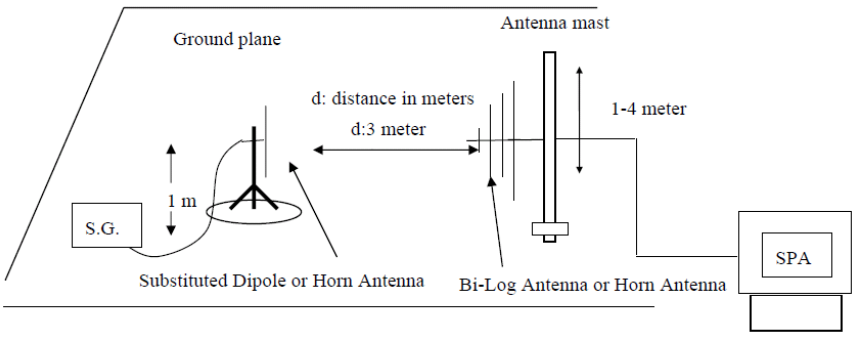
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest 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 asfollows: 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
Remark:	All three channels of GSM850 and PCS1900 are tested, but the test data of this report only shows the worst channel.

Measurement Data (worst case)

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850	251	H	V	31.76	38.50	Pass
			H	27.79		
		E1	V	31.52		
			H	27.31		
		E2	V	30.98		
			H	26.87		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
PCS1900	512	H	V	30.63	33.00	Pass
			H	20.92		
		E1	V	29.58		
			H	20.63		
		E2	V	29.42		
			H	20.05		

6.10 Field strength of spurious radiation measurement

Test Requirement:	FCC part 22.917 (a) and FCC part 24.238 (a)
Test Method:	FCC part 2.1053
Limit:	-13 dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	1. 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. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT

	positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 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(dBd/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Test mode:	GSM850		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.40	Vertical	-44.50	-13.00	Pass
2472.60	V	-44.44		
3296.80	V	-29.35		
4121.00	V	-31.14		
4945.20	V	-34.56		
5769.40	V	-40.25		
1648.40	Horizontal	-47.22	-13.00	Pass
2472.60	H	-46.88		
3296.80	H	-33.52		
4121.00	H	-34.15		
4945.20	H	-38.13		
5769.40	H	-37.65		
Test mode:	**GSM850**		**Test channel:**	**Middle**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-39.73	-13.00	Pass
2509.80	V	-45.21		
3346.40	V	-32.09		
4183.00	V	-34.46		
5019.60	V	-30.44		
5856.20	V	-39.62		
1673.20	Horizontal	-44.42	-13.00	Pass
2509.80	H	-46.36		
3346.40	H	-30.95		
4183.00	H	-34.34		
5019.60	H	-36.17		
5856.20	H	-39.65		

Remark:

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

Test mode:	GSM850		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.60	Vertical	-33.26	-13.00	Pass
2546.40	V	-46.81		
3395.20	V	-30.91		
4244.00	V	-29.59		
5092.80	V	-31.71		
5941.60	V	-40.22		
1697.60	Horizontal	-38.34	-13.00	Pass
2546.40	H	-46.33		
3395.20	H	-26.52		
4244.00	H	-32.24		
5092.80	H	-36.50		
5941.60	H	-39.52		
Test mode:	**PCS1900**		**Test channel:**	**Lowest**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.40	Vertical	-42.05	-13.00	Pass
5550.60	V	-37.50		
7400.80	V	-36.04		
9251.00	V	-32.63		
11101.20	V	---		
12951.40	V	---		
3700.40	Horizontal	-40.48	-13.00	Pass
5550.60	H	-37.43		
7400.80	H	-35.18		
9251.00	H	-31.96		
11101.20	H	---		
12951.40	H	---		

Remark:

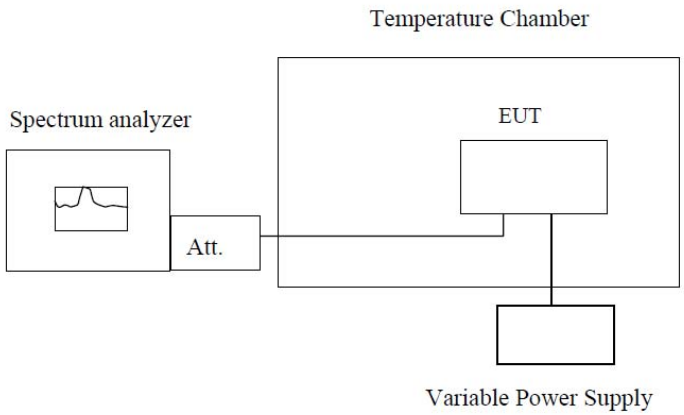
The emission levels of below 1 GHz are very lower than the limit and not show in test report.

Test mode:	PCS1900		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-42.21	-13.00	Pass
5640.00	V	-37.50		
7520.00	V	-36.58		
9400.00	V	-32.82		
11280.00	V	---		
13160.00	V	---		
3760.00	Horizontal	-41.96	-13.00	Pass
5640.00	H	-39.85		
7520.00	H	-40.12		
9400.00	H	-41.23		
11280.00	H	---		
13160.00	H	---		
Test mode:	**PCS1900**		**Test channel:**	**Highest**
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-40.84	-13.00	Pass
5729.40	V	-40.36		
7639.20	V	-36.68		
9549.00	V	-32.69		
11458.80	V	---		
13368.60	V	---		
3819.60	Horizontal	-41.45	-13.00	Pass
5729.40	H	-39.41		
7639.20	H	-35.35		
9549.00	H	-31.29		
11458.80	H	---		
13368.60	H	---		

Remark:

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

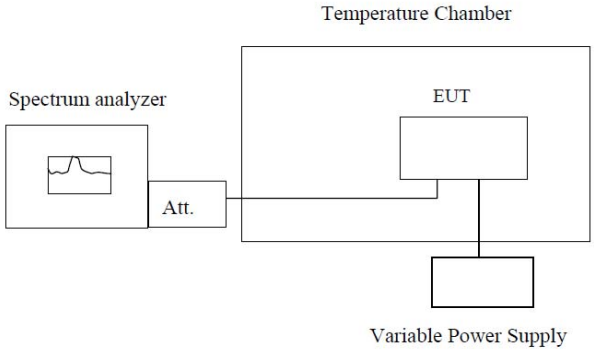
6.11 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	± 2.5 ppm
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25℃ operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ 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 GSM 850 and PCS1900 have been tested, but only show the worst channel in this test item.

Measurement Data (the worst channel):

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	100	0.119531	± 2.5	Pass
	-20	120	0.143438		
	-10	90	0.107578		
	0	65	0.077695		
	10	53	0.063352		
	20	48	0.057375		
	30	110	0.131485		
	40	98	0.117141		
	50	83	0.099211		
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error			Result
		Hz	ppm		
3.70	-30	115	0.061170	± 2.5	Pass
	-20	125	0.066489		
	-10	96	0.051064		
	0	82	0.043617		
	10	70	0.037234		
	20	85	0.045213		
	30	76	0.040426		
	40	95	0.050532		
	50	87	0.046277		

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:	± 2.5 ppm
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25℃. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. 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
Test results:	Passed
Remark:	All three channels of GSM 850 and PCS1900 have been tested, but only show the worst channel in this test item.

Measurement Data (the worst channel):

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	100	0.119531	± 2.5	Pass
	3.70	105	0.125508		
	3.40	90	0.107578		
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	107	0.056915	± 2.5	Pass
	3.70	85	0.045213		
	3.40	95	0.050532		