

FCC Test Report FCC ID:2AGLPTM-T2

Product Name:	Teemo Watch
Trademark:	N/A
Model Name:	TM-T2
Prepared For:	Beijing Sogou Technology Development Co.,Ltd.
Address:	19F,West Wing of Tower D,Tsinghua TongFang Hi-tech Plaza,No 1 Wangzhuang Road,Haidian District,Beijing,China
Prepared By:	Shenzhen BCTC Technology Co., Ltd.
Address:	No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	Nov. 3 - Nov. 20, 2015
Date of Report:	Nov. 20, 2015
Report No.:	BCTC-15103559

Applicant's name...... Beijing Sogou Technology Development Co.,Ltd.



VERIFICATION OF COMPLIANCE

Address 19F, West Wing of Tower D, Tsinghua TongFang Hi-tech Plaza, No 1

Manufacturala Nama	Wangzhuang Road, Haidian District, Beijing, China Beijing Sogou Technology Development Co., Ltd.		
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Address:	101, West Wing of Tower B, Tallighaa Tongrang Til teorr laza, No T		
	Wangzhuang Road,Haidian District,Beijing,China		
Product description			
Product name:			
Trademark:	N/A		
Model Name: TM-T2			
	FCC CFR Title 47 Part 2: 2014		
Test procedure	FCC CFR Title 47 Part22 Subpart H: 2014		
	FCC CFR Title 47 Part24 Subpart E: 2014		
	as been tested by BCTC, and the test results show that the in compliance with the requirements. And it is applicable only to the report.		
·	uced except in full, without the written approval of BCTC, this vised by BCTC, personal only, and shall be noted in the revision of		
Test Result	: Pass		
Testing Engineer	Frie Yang		
	(Eric Yang)		
Technical Manager	Sophie Lu		
	(Sophia Lee)		
Authorized Signatory	(Carson. Zhang)		
	(Odison, Zhang)		



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1.TEST SUMMARY

Test Items	Test Requirement	Result
DE E (OAD)	Part 1.1307	Passed*
RF Exposure (SAR)	Part 2.1093	(Please refer to SAR Report)
Conducted RF Output Power	2.1046	PASS
Peak to Average Radio	2.1055,22.355 24.235,27.54	PASS
	2.1049,	
99% & -26 dB Occupied Bandwidth	22.917	PASS
	24.238,	
	2.1055,	
Frequency Stability	22.355	PASS
	24.235,	
	2.1051,2.1057	
Conducted Out of Band Emissions	22.917,	PASS
	24.238	
	2.1051,2.1057	
Band Edge	22.917,	PASS
	24.238	
Toward the Dedicted Device (FIDD/FDD)	22.913,	D400
Transmitter Radiated Power (EIPR/ERP)	24.232	PASS
	2.1053,2.1057	
Radiated Out of Band Emissions	22.917,	PASS
	24.238	



2.GENERAL PRODUCT INFORMATION

2.1. Product Function

Refer to Technical Construction Form and User Manual.

2.2. Description of Device (EUT)

Product Name:	Teemo Watch
Model No.:	TM-T2
	GSM 850MHz:
	Tx: 824.20 - 848.80MHz (at intervals of 200kHz); Rx: 869.20 - 893.80MHz (at intervals of 200kHz)
Operation Frequency:	GSM 1900MHz:
	Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);
	Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)
Modulation technology:	GSM/GPRS Mode with GMSK, 8PSK Modulation
Antenna Type:	Integral Antenna
Antenna gain:	1.2dBi (GSM850/1900) ,
Dever evenly	DC 5V from adapter
Power supply:	Rechargeable lithium-ion battery 3.8V
GPRS Class:	12



2.3. Difference between Model Numbers

The product are different for model, outlook color and size.

2.4. Test Supporting System

None.

2.5. Independent Operation Modes

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes					
Band	Radiated Conducted				
GSM 850	■ GSM link	■ GSM link			
	■ GPRS 8 link	■ GPRS 8 link			
PCS 1900	■ GSM link	■ GSM link			

Note: The maximum power levels are GSM mode for GMSK link。

The conducted average power tables are as follows:

Conducted Average Power (dBm)						
Band	GSM850 PCS1900					
Channel	128	128 190 251 512 661			661	810
Frequency (MHz)	824.20	836.60	848.80	1850.20	1880.00	1909.80
GSM	32.27	32.35	32.70	30.27	30.42	30.55



3. TEST SITES

3.1. Test Facilities

Shenzhen BCTC Technology Co., Ltd.

Add.:No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registration No.:187086

3.1.1. Measurement Uncertainty

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}$ %.

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



3.2. List of Test and Measurement Instruments

3.2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	R&S	ESCI	101160	2015.06.07	2016.06.06
LISN	SCHWARZBECK	ENV216	101313	2015.08.25	2016.08.24
LISN	EMCO	3816/2	00042990	2015.08.25	2016.08.24
50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06
RF cables	R&S	R204	R20X	2015.07.06	2015.07.05

3.2.2. For radiated emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06
System Simulator	Agilent	E5515C	GB43130252	2015.06.07	2016.06.06
Power Splitter	Weinschel	1506A	NW534	2015.06.07	2016.06.06
Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05
Bilog Antenna	TESEQ	CBL6111D	31217	2015.06.07	2017.06.06
Loop antenna	ARA	PLA-1030/B	1029	2015.06.07	2016.06.06
Spectrum Analyzer	Agilent	E4411B	MY4511235	2015.07.06	2016.07.05
Signal Amplifier	SONOMA	313	187022	2015.07.06	2016.07.05
Signal Amplifier	Agilent	8449B	3008A00213	2015.07.06	2016.07.05
RF Cable	R&S	R203	R20X	2015.07.06	2016.07.05
MULTI-DEVICE Controller	ETS-LINDGREEN	31250	126821	N/A	N/A
Horn Antenna	EM	EM-AH-10180	2011071402	2015.07.06	2016.07.05
Horn Antenna	EM	EM-AH-10180	2011071401	2015.06.07	2017.06.06
Horn Antenna	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05
Spectrum Analyzer	Agilent	8593E	3911A03928	2015.07.06	2016.07.05
Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05
Signal Amplifier	DAZE	ZN3380B	11235	2015.08.25	2016.08.24
High Pass filter	KANGMAI	WHKX1.0/1.5G-10SS	40	2015.08.25	2016.08.24
Filter	COM-MW	ZBSF-C836.5-25-X	BCTC042	2015.08.25	2016.08.24
Filter	COM-MW	ZBSF-C1747.5-75-X2	BCTC045	2015.08.25	2016.08.24
Filter	COM-MW	ZBSF-C1880-60-X2	BCTC047	2015.08.25	2016.08.24
DC Power Supply	LongWei	PS-305D	010965682	2015.07.06	2016.07.05
Constant temperature and humidity box	GF	GTH-800-40-2P	MAA9906-012	2015.06.07	2016.06.06
Universal radio communication tester	R&S	CMU200	115295	2015.08.25	2016.08.24
Splitter	Agilent	11435B	1125162	2015.07.06	2016.07.05



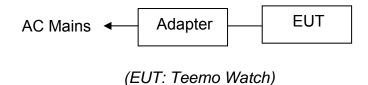
4. TEST SET-UP AND OPERATION MODES

4.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



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- 4.3. Test Operation Mode and Test Software None.
- 4.4. Special Accessories and Auxiliary Equipment None.
- 4.5. Countermeasures to Achieve EMC Compliance None.

4.6. Test Environment:

Ambient conditions in the test laboratory:

Items	Actual
Temperature (°C)	21~23
Humidity (%RH)	50~65



5. EMISSION TEST RESULTS

5.1. Conducted RF Output Power

5.1.1. Limit

According to FCC section 2.1046(a), FCC part22.913(a) and FCC part24.232(b), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

5.1.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.1.3. Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

Measurement data

The conducted power tables are as follows:

Average Conducted Power (dBm)							
Band		GSM850			PCS1900		
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80	
GSM (GMSK, 1 TX slot)	32.27	32.35	32.70	30.27	30.42	30.55	
GPRS (GMSK, 1 TX slot)	31.09	31.28	31.62	30.14	30.60	30.56	
GPRS (GMSK, 2 TX slot)	30.35	30.53	30.87	28.96	29.42	29.37	
GPRS (GMSK, 3 TX slot)	28.39	28.58	28.41	26.93	27.40	27.34	
GPRS (GMSK, 4 TX slot)	27.29	27.48	27.72	24.88	25.34	25.28	
Limit	38.45				33.01		
Result	Pass						

Note: Measurement Uncertainty: ±2.6 dB.



5.2. Peak to Average Radio

5.2.1. Limit

According to FCC section 27.50(d)(5), the peak to average ratio(PAR) of the transmission may not exceed 13dB.

5.2.2. Test Setup

See section 5.1.2 of this report.

5.2.3. Test Result

Measurement data as follows:

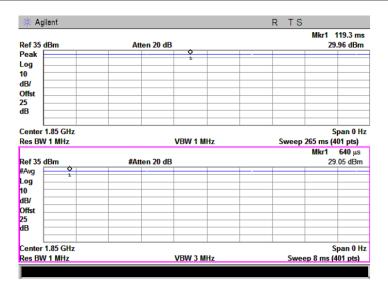
Band	GSM850					
Daliu	Low	Middle	High			
Frequency	824.20	836.60	848.80			
Peak-to average ratio(dB)/GSM	0.79	0.69	0.42			

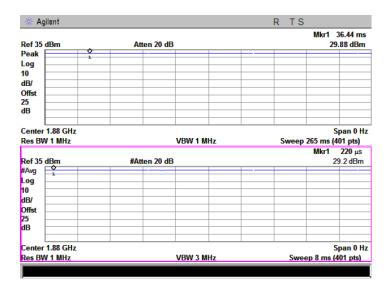
Band	PCS1900				
Dallu	Low	Middle	High		
Frequency	1850.20	1880.00	1909.8		
Peak-to average ratio(dB)/GSM	0.81	0.68	0.84		

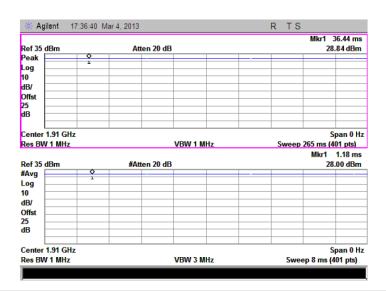
Note: Measurement Uncertainty: ±0.2 dB.



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5.3. -26dB and 99% Occupied Bandwidth

5.3.1. Limit

According to FCC section 2.1049 and FCC part22.913(a) and FCC part24.232(b), the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

5.3.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.3.3. Test Result

Measurement Data

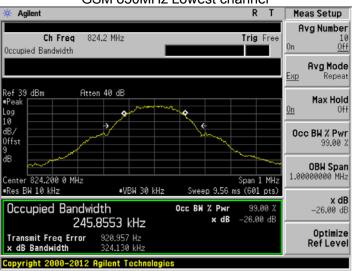
EUT Mode			26dBOccupy bandwidth (kHz)
0011050	824.20	245.855	324.130
GSM 850 (GSM link)	836.60	245.644	325.999
(COM IIIIK)	848.80	245.645	319.518
D00 1000	1850.20	248.127	319.777
PCS 1900 (GSM link)	1880.00	247.670	319.635
(SSM mm)	1909.80	246.914	320.443

Note: Measurement Uncertainty: ±20Hz.

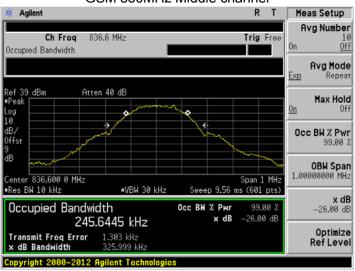


Test plot as follows:

GSM 850MHz Lowest channel



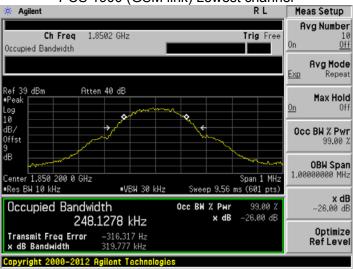
GSM 850MHz Middle channel



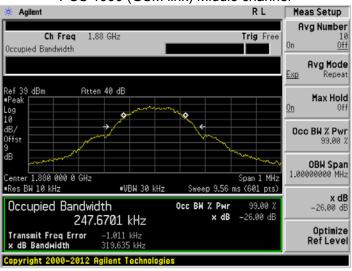
GSM 850MHz Highest channel:



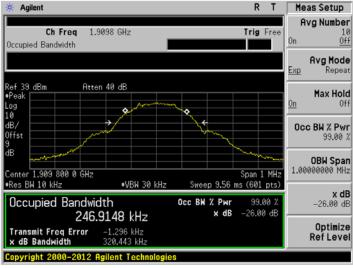
PCS 1900 (GSM link) Lowest channel



PCS 1900 (GSM link) Middle channel



PCS 1900 (GSM link) Highest channel





5.4. Frequency Stability

5.4.1. Limit

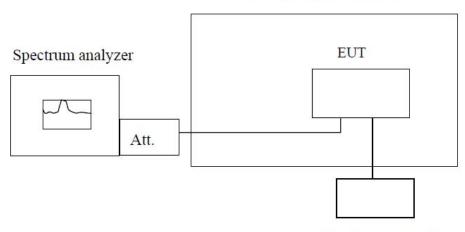
According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30 $^{\circ}$ C to +50 $^{\circ}$ C at intervals of not more than 10 $^{\circ}$ C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

5.4.2. Test Setup

Temperature Chamber

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Variable Power Supply

Note: Measurement setup for testing on Antenna connector

The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber.

The EUT is commanded by the System Simulator (SS) to operate at the maximum output power

5.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.6VDC which are specified by the applicant; the normal temperature here used is 25°C. The frequency deviation limit of 850MHz band is ±2.5ppm, and 1900MHz is ±1ppm



Normal

Т	est Conditions		Frequ	ency Devia	tion	
Band	Power(Vdc)	Temperatu re(°C)	Frequency Error(Hz)	ppm	Limit	Result
	3.7	-30	36	0.0430		
	3.7	-20	38	0.0454		
	3.7	-10	42	0.0502		
GSM850	3.7	0	38	0.0454		
(GSM link)	3.7	10	37	0.0442		
Middle	3.7	20	42	0.0502	12.5	DACC
channel=190	3.7	30	30	0.0359	±2.5	PASS
channel=836.	3.7	40	43	0.0514		
6MHz	3.7	50	35	0.0418		
	4.25	25	26	0.0311		
	3.70	25	21	0.0251		
	3.40	25	43	0.0514		

Т	est Conditions		Frequ	iency Deviat	tion	
Band	Power(Vdc)	Temperatu re(°C)	Frequency Error(Hz)	ppm	Limit	Result
	3.7	-30	82	0.0456		
	3.7	-20	63	0.0350		
	3.7	-10	72	0.0400		
PCS1900	3.7	0	31	0.0172		
(GSM link)	3.7	10	64	0.0356		
Middle	3.7	20	72	0.0400	. 1	DACC
channel=661	3.7	30	29	0.0161	±1	PASS
channel=188	3.7	40	43	0.0239		
0MHz	3.7	50	61	0.0339		
	4.25	25	74	0.0411		
	3.70	25	67	0.0372		
	3.40	25	81	0.0450		

Note: Measurement Uncertainty: ±20Hz.

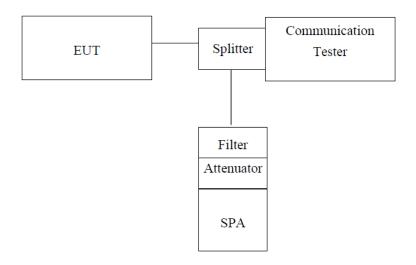


5.5. Conducted Spurious Emissions

5.5.1. Limit

According to FCC section 22.917(a) and FCC section 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

5.5.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.5.3. Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 100KHz, Start=30MHz, Stop= 10th harmonic.

Limit = -13dBm

5.5.4. Test Result

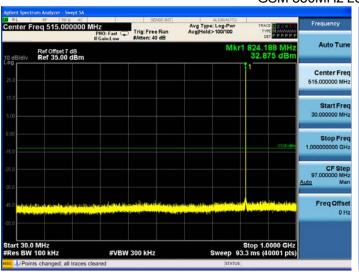
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

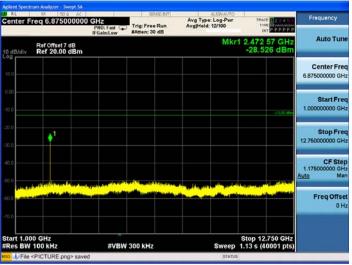
Test plot as follows:



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GSM 850MHz Lowest channel





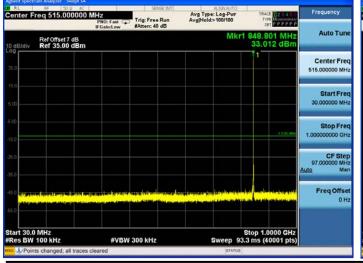
Report No.: BCTC-15103559

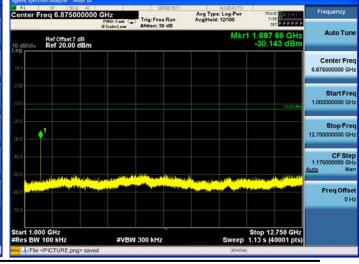
GSM 850MHz Middle channel





GSM 850MHz Highest channel





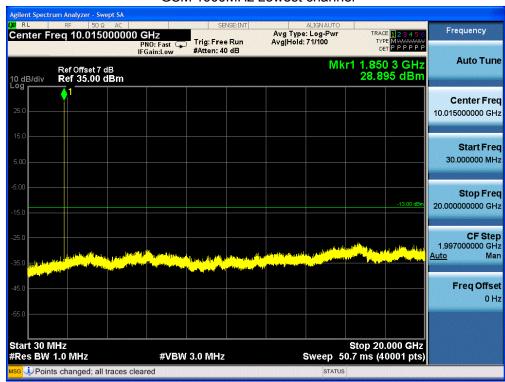
FCC Report To

Tel: 400-788-9558 0755-33019988

Web:Http://www.bctc-lab.com.cn

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GSM 1900MHz Lowest channel





GSM 1900MHz Middle channel







Points changed; all traces cleared

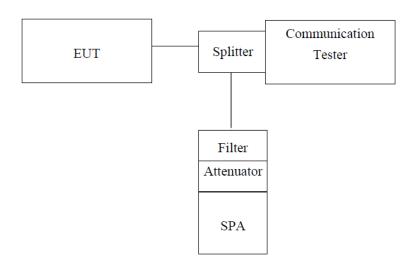


5.6. Conducted Out of Band Emissions

5.6.1. Limit

According to FCC section 22.917(b) and FCC section 24.238(b), 27.53(g)(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

5.6.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.6.3. Measurement Procedure

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer and the System Simulator with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the System Simulator to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the System Simulator.

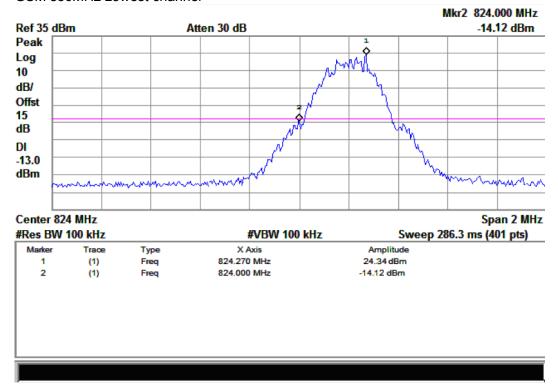
5.6.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

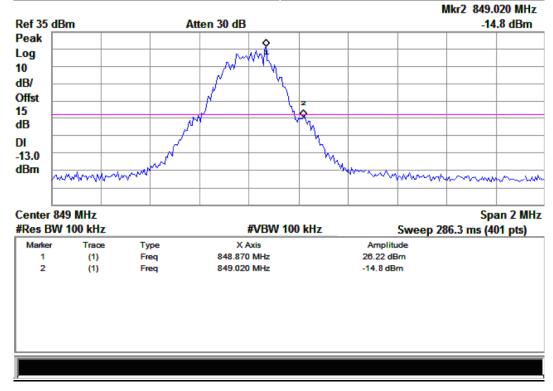
Test plot as follows:



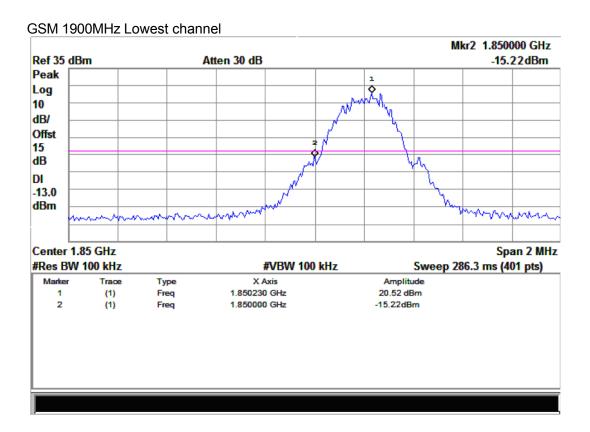
GSM 850MHz Lowest channel



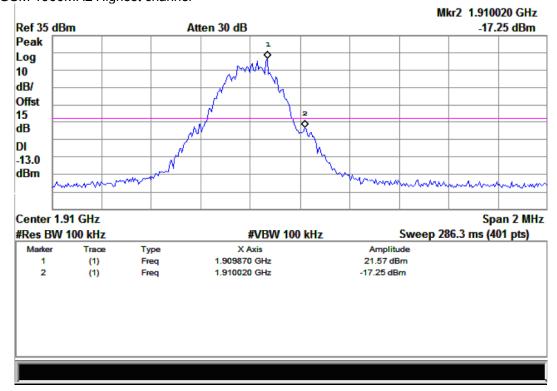
GSM 850MHz Highest channel







GSM 1900MHz Highest channel





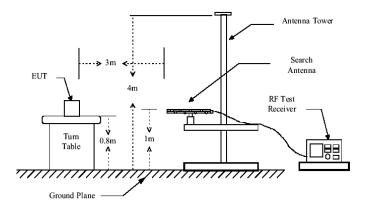
5.7. Transmitter Radiated Power (EIRP/ERP)

5.7.1. Limit

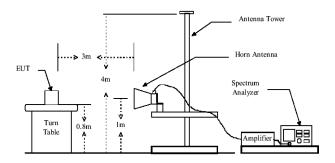
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

5.7.2. Test Setup

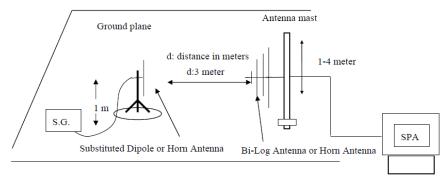
Below 1GHz



Above 1GHz



Substituted method:





5.7.3. Measurement 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. all test in Full-Anechoic Chamber.

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.

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:

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:

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

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

Note: The EUT polarize means three polarize, H means X polarize, E1 means Y polarize, E2 means Z polarize.

5.7.4. Test Result



EUT mode	Channel	EUT Pol.	Antenna Pol.	S.G. output (dBm)	Anten na Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
		11	V	29.34	3.68	1.65	31.37		
		Н	Н	27.35	3.68	1.65	29.38		
	1	F4	V	23.23	3.68	1.65	25.26	00.45	Pass
	Lowest	E1	Н	27.30	3.68	1.65	29.33	38.45	
		F0	V	22.59	3.68	1.65	24.62		
		E2	Н	25.56	3.68	1.65	27.59		
	Middle	Н	V	29.91	3.70	1.67	31.94		Pass
			Н	27.76	3.70	1.67	29.79	38.45	
GSM850		Middle E1	V	23.35	3.70	1.67	25.38		
(GSM link)			Н	27.65	3.70	1.67	29.68		
			V	23.91	3.70	1.67	25.94		
		E2	Н	26.71	3.70	1.67	28.74		
		Н	V	30.58	3.70	1.71	32.57		
		П	Н	27.32	3.70	1.71	29.31		
	l limbaat	E1	V	23.30	3.70	1.71	25.29	20.45	Desa
	Highest		Н	26.76	3.70	1.71	28.75	38.45	Pass
		F2	V	22.39	3.70	1.71	24.38		
		E2	Н	26.28	3.70	1.71	28.27		



EUT mode	Channel	EUT Pol.	Antenna Pol.	S.G. output (dBm)	Anten na Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
			V	24.88	7.35	2.54	29.69		
		Н	Н	22.93	7.35	2.54	27.74		
	1	E1	V	18.43	7.35	2.54	23.24	00.45	Pass
	Lowest		Н	22.48	7.35	2.54	27.29	38.45	
		F0	V	17.82	7.35	2.54	22.63		
		E2	Н	20.97	7.35	2.54	25.78		
	Middle	Н	V	25.82	7.51	2.62	30.71	38.45	Pass
			Н	23.64	7.51	2.62	28.53		
PCS1900		1iddle E1	V	19.98	7.51	2.62	24.87		
(GSM link)			Н	24.75	7.51	2.62	29.64		
		F0	V	20.85	7.51	2.62	25.74		
		E2	Н	22.73	7.51	2.62	27.62		
		Н	V	25.08	7.96	2.69	30.35		
		П	Н	22.00	7.96	2.69	27.27		
	l limbaat	E1	V	19.25	7.96	2.69	24.52	20.45	Dasa
	Highest		Н	22.37	7.96	2.69	27.64	38.45	Pass
		E2 -	V	17.11	7.96	2.69	22.38		
		EZ	Н	22.34	7.96	2.69	27.61		



5.8. Radiated Out of Band Emissions

5.8.1. Limit

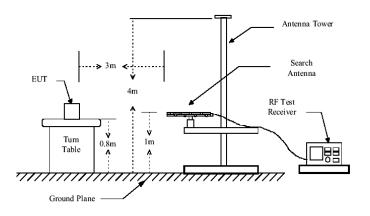
According to FCC section 22.917(a) and section 24.238(a), 27.53(g) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power

(P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

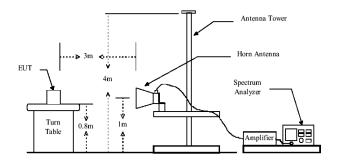
The spurious emission with frequency band 1900 according to FCC section 2.1057.

5.8.2. Test Setup

Below 1GHz

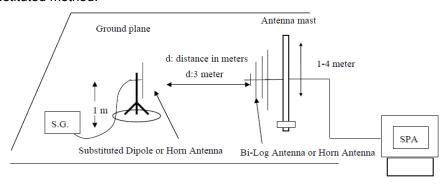


Above 1GHz





Substituted method:



5.8.3. Measurement Procedure

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

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

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

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

Note: Measurement Uncertainty: ±3.6 dB.



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	Гиоличено <i>и</i>		Spur	rious Emission			Limait	
Band	Frequency (MHz)	Polarization	S.G. output	Antenna	Cable	Level	Limit (dBm)	Result
	(1011 12)	Folalization	(dBm)	Gain (dBd)	Loss (dB)	(dBm)	(dDIII)	
	87.35	Vertical	-76.22	3.35	0.38	-73.25		
	1648.40	Vertical	-29.50	6.51	1.35	-24.34		
	2472.60	Vertical	-35.76	6.88	2.53	-31.41		DAGG
	3296.80	Vertical	-37.61	7.61	3.67	-33.67		
	4121.00	Vertical	-45.80	8.67	4.06	-41.19		
GSM 850	4945.20	Vertical	-40.30	9.35	4.38	-35.33	40	
Lowest	138.62	Horizontal	-76.34	4.12	0.51	-72.73	-13	PASS
	2472.40	Horizontal	-34.28	6.88	1.35	-28.75		
	3296.80	Horizontal	-37.55	7.61	3.67	-33.61		
	4121.00	Horizontal	-46.25	8.67	4.06	-41.64		
	4945.20	Horizontal	-49.57	9.35	4.38	-44.60		
	5769.40	Horizontal	-43.75	9.94	4.87	-38.68		

	Eroguenov		Spur	ious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output	Antenna	Cable	Level	(dBm)	Result
	(1411 12)	T Olarization	(dBm)	Gain (dBd)	Loss (dB)	(dBm)	(ubiii)	
	87.57	Vertical	-74.31	3.35	0.38	-71.34		
	1648.70	Vertical	-32.47	6.51	1.35	-27.31		
	2472.10	Vertical	-33.02	6.88	2.53	-28.67		
	3296.50	Vertical	-40.57	7.61	3.67	-36.63		PASS
CCM	4121.30	Vertical	-48.19	8.67	4.06	-43.58		
GSM	4945.70	Vertical	-43.66	9.35	4.38	-38.69	-13	
850 Middle	138.76	Horizontal	-76.24	4.12	0.51	-72.63		
Middle	2472.10	Horizontal	-29.78	6.88	1.35	-24.25		
	3296.20	Horizontal	-32.46	7.61	3.67	-28.52		
	4121.70	Horizontal	-48.88	8.67	4.06	-44.27		
	4945.00	Horizontal	-50.30	9.35	4.38	-45.33		
	5769.60	Horizontal	-40.22	9.94	4.87	-35.15		

	Fraguency		Spui	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	87.76	Vertical	-75.41	3.35	0.38	-72.44		
	1648.30	Vertical	-31.36	6.51	1.35	-26.20		
	2472.10	Vertical	-33.29	6.88	2.53	-28.94		
	3296.50	Vertical	-36.46	7.61	3.67	-32.52		
CCM	4121.40	Vertical	-41.83	8.67	4.06	-37.22		PASS
GSM 850	4945.20	Vertical	-47.29	9.35	4.38	-42.32	-13	
Highest	138.51	Horizontal	-76.04	4.12	0.51	-72.43	-13	
riigiiest	2472.90	Horizontal	-30.17	6.88	1.35	-24.64		
	3296.30	Horizontal	-33.08	7.61	3.67	-29.14		
	4121.20	Horizontal	-38.85	8.67	4.06	-34.24		
	4945.70	Horizontal	-47.54	9.35	4.38	-42.57		
	5769.60	Horizontal	-53.84	9.94	4.87	-48.77		



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	Глодиологи		Spur	ious Emission			Limait	
Band	Frequency (MHz)	Polarization	S.G. output	Antenna	Cable	Level	Limit (dBm)	Result
	(1011 12)	Folalization	(dBm)	Gain (dBi)	Loss (dB)	(dBm)	(ubiii)	
	49.68	Vertical	-76.45	2.36	0.26	-74.35		
	3700.40	Vertical	-46.65	7.76	3.75	-42.64		
	5550.60	Vertical	-47.78	9.84	4.94	-42.88		
	7400.80	Vertical	-40.14	10.21	5.32	-35.25		
	9251.00	Vertical	-43.55	11.36	6.02	-38.21		
PCS190	11101.20	Vertical	-45.10	14.52	6.68	-37.26	40	DACC
0 Lowest	158.26	Horizontal	-77.10	4.37	0.59	-73.32	-13	PASS
	3700.40	Horizontal	-48.88	7.76	3.75	-44.87		
	5550.60	Horizontal	-48.15	9.84	4.94	-43.25		
	7400.80	Horizontal	-42.77	10.21	5.32	-37.88		
	9251.00	Horizontal	-48.04	11.36	6.02	-42.70		
	11101.20	Horizontal	-47.82	14.52	6.68	-39.98		

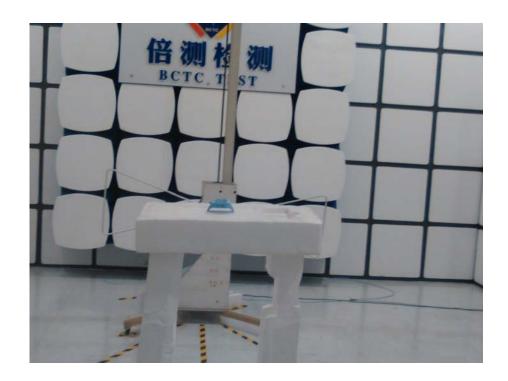
	Eroguenov		Spur	ious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output	Antenna	Cable	Level	(dBm)	Result
	(IVII IZ)	r olarization	(dBm)	Gain (dBi)	Loss (dB)	(dBm)	(ubiii)	
	48.62	Vertical	-74.05	2.36	0.26	-71.95		
	3760.00	Vertical	-47.99	7.76	3.75	-43.98		
	5640.00	Vertical	-47.59	9.84	4.94	-42.69		
	7520.00	Vertical	-43.16	10.21	5.32	-38.27	10	DACC
	9400.00	Vertical	-42.55	11.36	6.02	-37.21		
PCS1900	11280.00	Vertical	-46.55	14.52	6.68	-38.71		
Middle	186.35	Horizontal	-77.60	4.37	0.59	-73.82	-13	PASS
	3760.00	Horizontal	-46.40	7.76	3.75	-42.39		
	5640.00	Horizontal	-47.14	9.84	4.94	-42.24		
	7520.00	Horizontal	-39.73	10.21	5.32	-34.84	_	
	9400.00	Horizontal	-43.65	11.36	6.02	-38.31		
	11280.00	Horizontal	-45.55	14.52	6.68	-37.71		

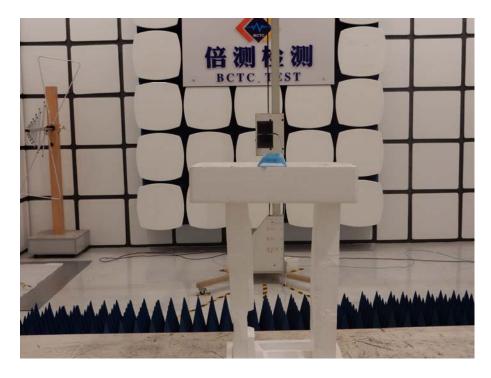
Band	Frequency (MHz)	Spurious Emission					Limit	
		Polarization	S.G. output	Antenna	Cable	Level	Limit (dBm)	Result
			(dBm)	Gain (dBi)	Loss (dB)	(dBm)		
PCS190 0 Highest	53.94	Vertical	-74.61	2.36	0.29	-72.54	-13	PASS
	3819.60	Vertical	-47.61	7.79	3.53	-43.35		
	5729.40	Vertical	-42.01	9.88	5.02	-37.15		
	7639.20	Vertical	-38.16	10.25	5.54	-33.45		
	9549.00	Vertical	-45.09	11.38	6.16	-39.87		
	11458.80	Vertical	-47.56	14.56	6.72	-39.72		
	167.53	Horizontal	-76.65	4.31	0.61	-72.95		
	3819.60	Horizontal	-45.95	7.79	3.53	-41.69		
	5729.40	Horizontal	-41.91	9.88	5.02	-37.05		
	7639.20	Horizontal	-37.53	10.25	5.54	-32.82		
	9549.00	Horizontal	-43.17	11.38	6.16	-37.95		
	11458.80	Horizontal	-45.09	14.56	6.72	-37.25		



6. PHOTOGRAPHS OF TEST SET-UP

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7. PHOTOGRAPHS OF THE EUT



