

FCC Part22H&24E Test Report Industry Canada RSS-132/RSS-133

Product Name : GSM/GPRS/EGPRS mobile phone
Model No. : Sonim XP1301-A-R1
Type No. : P25B005AN
FCC ID : WYPP25B005AN
IC : 8090A-P25B005AN

Applicant : Sonim Technologies Inc

Address : 1875 S. Grant Street Suite 620 San Mateo, 94402
USA

Date of Receipt : 15/08/2011
Test Date : 15/08/2011~16/08/2011
Issued Date : 17/08/2011
Report No. : 116S087R-HP-US-P07V01
Report Version : V 1.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, NVLAP, NIST or any agency of the Government.

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Test Report Certification

Issued Date : 17/08/2011

Report No. : 116S087R-HP-US-P07V01



Product Name : GSM/GPRS/EGPRS mobile phone

Applicant : Sonim Technologies Inc

Address : 1875 S. Grant Street Suite 620 San Mateo, 94402 USA

Manufacturer : Sonim Technologies Inc

Address : 1875 S. Grant Street Suite 620 San Mateo, 94402 USA

Model No. : Sonim XP1301-A-R1

Type No. : P25B005AN

FCC ID : WYPP25B005AN

IC : 8090A-P25B005AN

EUT Voltage : DC 3.7V

Brand Name : Sonim

Applicable Standard : FCC CFR Title 47 Part 2, TIA/EIA 603-C
 FCC Part22 Subpart H, FCC Part24 Subpart E
 Industry Canada RSS-132, Issue 2
 Industry Canada RSS-133, Issue 5

Test Result : Complied

Performed Location : Suzhou EMC Laboratory
 No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech
 Development Zone., Suzhou, China
 TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
 FCC Registration Number: 800392; IC Lab Code: 4075B

Documented By : Alice Ni
 (Engineering ADM: Alice Ni)

Reviewed By : Robin Wu
 (Senior Engineer: Robin Wu)

Approved By : Marlin Chen
 (Engineering Supervisor: Marlin Chen)

Laboratory Information

We, **QuietTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	: BSMI, NCC, TAF
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from QuietTek Corporation's Web Site : <http://www.quietek.com/tw/ctg/cts/accreditations.htm>
 The address and introduction of QuietTek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



LinKou Testing Laboratory :

No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.
 TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



Suzhou (China) Testing Laboratory :

No. 99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., Suzhou,China.
 TEL : +86-512-6251-5088 / FAX : +86-512-6251-5098 E-Mail : service@quietek.com



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1. General Information

1.1. EUT Description

Product Name	GSM/GPRS/EGPRS mobile phone
Model No.	Sonim XP1301-A-R1
Type No.	P25B005AN
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V2.1 + EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	2.78dBi
2G	
Support Band	GSM 850/PCS 1900
GPRS Type	Class B
GPRS Class	Class 12
Tx Frequency Range	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Rx Frequency Range	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	GSM/GPRS/EDGE: R99
Type of modulation	GMSK for GSM/GPRS, 8PSK for EDGE
Antenna Gain	0dBi for GSM850 2dBi for PCS1900
Components	
Headset Model Number	ME-816B5-C
Battery	Brand Name: Sonim Rated Voltage and Capacitance: 3.7V/1750mAh
Adapter	Brand Name: Sonim M/N: DSA-3RNA-05 FEU Input: 100-240V~50/60Hz 0.3A Output: 5Vdc, 0.65A

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: GSM 850 Link
Mode 2: PCS 1900 Link
Mode 3: EDGE 850 Link
Mode 4: EDGE 1900 Link

Note:

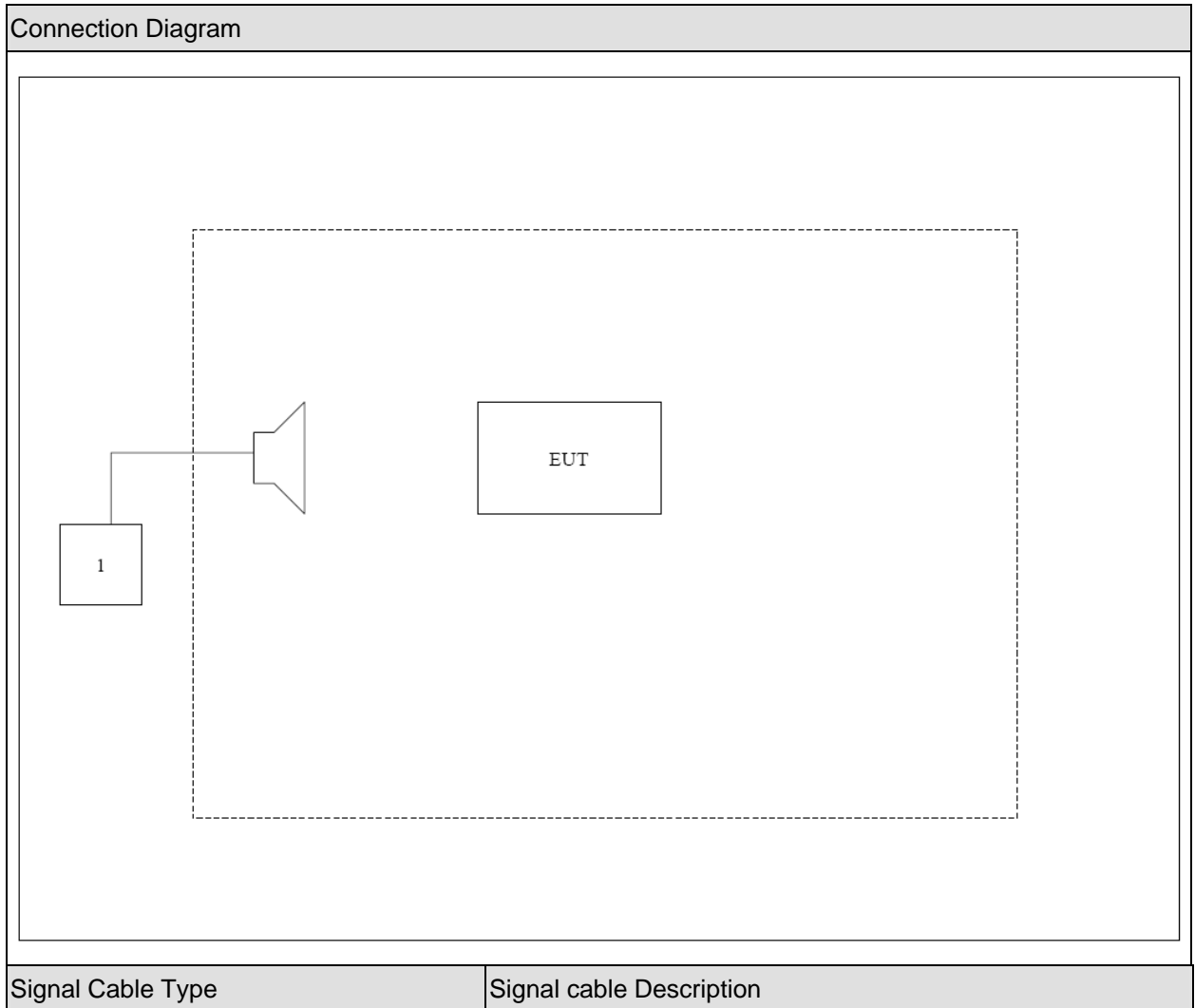
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. Radiated power output working at GSM link was higher than that working at GPRS link, so all of test items were done working at GSM mode. Refer to peak power output for more details.
3. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.
4. This device is a composite device in accordance with Part 15 Subpart B regulations. The report number is 116S087R-ITUSP01V02.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	CMU200	R&S	CMU200	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT Communicate with CMU200, then select channel to test.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

For GSM 850 (FCC Part 22H & Part 2)

Performed Item	Section in CFR 47	Section in RSS GEN or RSS-132	Test Performed	Deviation
Peak Output Power	FCC Part 22.913(a)(2) and Part 2.1046	4.4	Yes	No
Modulation Characteristic	FCC Part 2.1047(d)	4.2	N/A	N/A
Occupied Bandwidth	FCC Part 2.1049	RSS GEN 4.6	Yes	No
Spurious Emission At Antenna Terminals (+/- 1MHz)	FCC Part 22.917(a) and Part 2.1049	4.5	Yes	No
Spurious Emission	FCC Part 22.917(b) and Part 2.1051, 2.1053	4.5, 4.6	Yes	No
Frequency Stability Under Temperature & Voltage Variations	FCC Part 22.355 and 2.1055	4.3	Yes	No

For PCS 1900 (FCC Part 24E & Part 2)

Performed Item	Section in CFR 47	Section in RSS GEN or RSS-133	Test Performed	Deviation
Peak Output Power	FCC Part 24.232(b) and Part 2.1046	6.4	Yes	No
Modulation Characteristic	FCC Part 2.1047(d)	6.2	N/A	N/A
Occupied Bandwidth	FCC Part 24.238(b) and Part 2.1049	RSS GEN 4.6	Yes	No
Spurious Emission At Antenna Terminals (+/- 1MHz)	FCC Part 24.238(a) and Part 2.1049	6.5	Yes	No
Spurious Emission	FCC Part 24.238(b) and Part 2.1051, 2.1053	6.5, 6.6	Yes	No
Frequency Stability Under Temperature & Voltage Variations	FCC Part 24.235 and 2.1055	6.3	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	23
Humidity (%RH)	25-75	52
Barometric pressure (mbar)	860-1060	950-1000

3. Peak Output Power

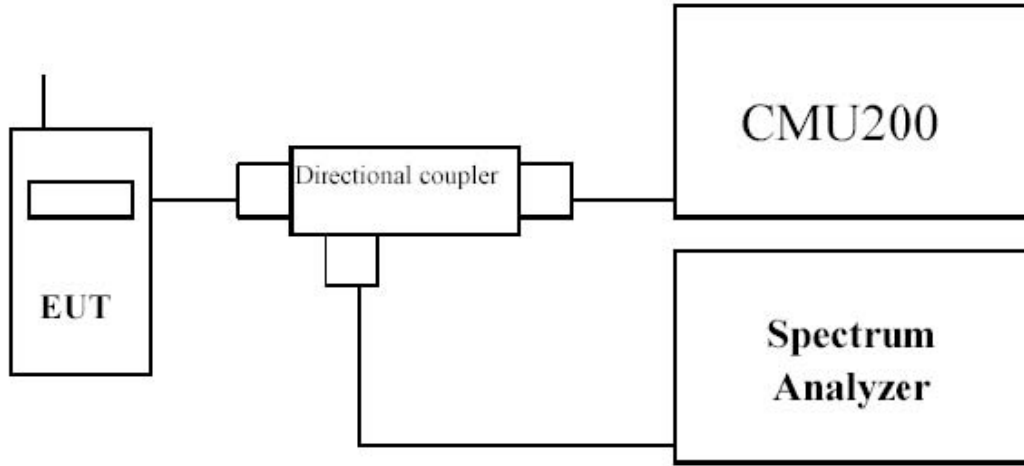
3.1. Test Equipment

Peak Output Power / AC-5

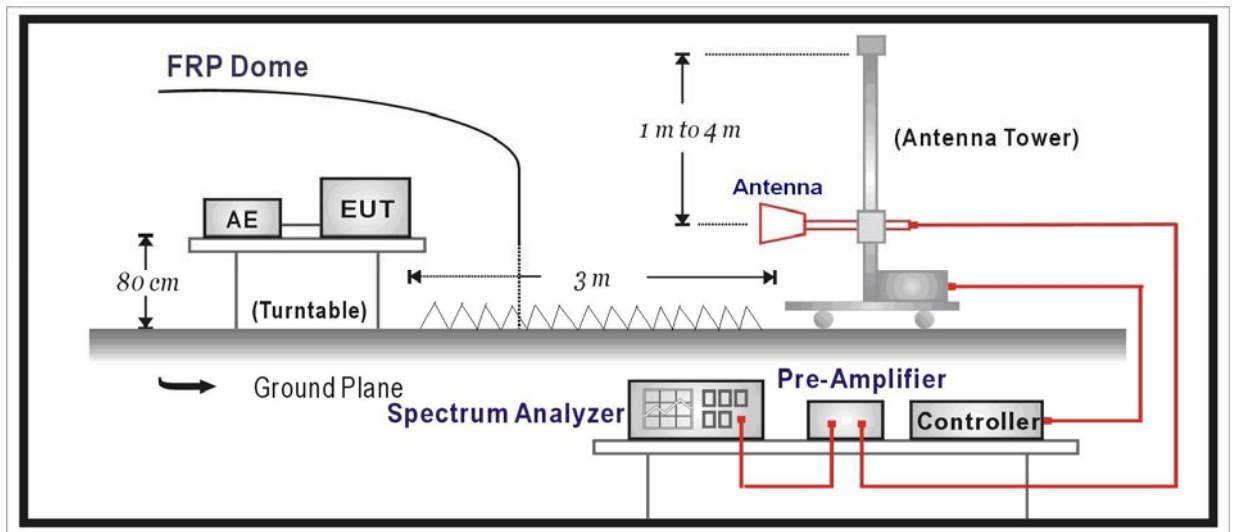
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2012.04.10
Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Dual Directional Coupler	Agilent	778D	20160	2012.04.20
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2012.04.20
PSG Analog Signal Generator	Agilent	E8257D	MY44321116	2012.04.23
Preamplifier	QuieTek	AP-025C	CHM-0503006	2012.05.05
Preamplifier	Miteq	NSP1800-25	1364185	2012.05.05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2011.10.18
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2011.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2011.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2012.01.14

3.2. Test Setup

Conducted Power Measurement:



Radiated Power Measurement:



3.3. Limit

For FCC Part 22.913(a)(2):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b):

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

3.4. Test Procedure

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- c) EUT Communicate with CMU200, then selects a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- e) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- f) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- g) The output of the test antenna shall be connected to the measuring receiver.
- h) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- i) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- j) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- k) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- l) The maximum signal level detected by the measuring receiver shall be noted.
- m) The transmitter shall be replaced by a substitution antenna.
- n) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- o) The substitution antenna shall be connected to a calibrated signal generator.
- p) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- q) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- r) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- s) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- t) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if

necessary.

- u) Test site anechoic chamber refer to ANSI C63.4: 2009.

3.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power Measurement ± 1.2 dB,
for Radiated Power Measurement ± 3.2 dB

3.6. Test Result

Table 1

No. of timeslots	1	2	3	4
Duty Cycle	1 : 8	1 : 4	1 : 2.66	1 : 2
Timebased avg. power compared to slotted avg. power	-9 dB	-6 dB	-4.25 dB	-3 dB

The following table shows the conducted power measured and time based average power calculated:

Table 2

GSM850

Channel No.	Frequency (MHz)	Modulation	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	ERP (dBm)	Limit (dBm)
128	824.2	GMSK	31.86	-9	22.54	31.27	38.50
189	836.4	GMSK	31.82	-9	22.52	30.65	38.50
251	848.8	GMSK	31.74	-9	22.56	31.16	38.50

PCS1900

Channel No.	Frequency (MHz)	Modulation	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	EIRP (dBm)	Limit (dBm)
512	1850.2	GMSK	29.06	-9	19.67	29.64	33.00
661	1880.0	GMSK	29.25	-9	19.55	29.96	33.00
810	1909.8	GMSK	29.40	-9	19.54	29.91	33.00

GPRS 850

Channel No.	Frequency (MHz)	Modulation	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	ERP (dBm)	Limit (dBm)
128	824.2	GMSK	31.80	-9	22.50	30.88	38.50
189	836.4	GMSK	31.76	-9	22.46	30.55	38.50
251	848.8	GMSK	31.70	-9	22.50	30.98	38.50

GPRS1900

Channel No.	Frequency (MHz)	Modulation	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	EIRP (dBm)	Limit (dBm)
512	1850.2	GMSK	29.02	-9	19.46	29.54	33.00
661	1880.0	GMSK	29.24	-9	19.54	29.81	33.00
810	1909.8	GMSK	29.32	-9	19.52	29.80	33.00

EDGE 850

Channel No.	Frequency (MHz)	Modulation	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	ERP (dBm)	Limit (dBm)
128	824.2	GMSK	26.92	-9	16.86	28.07	38.50
189	836.4	GMSK	26.44	-9	16.74	27.16	38.50
251	848.8	GMSK	26.60	-9	17.19	27.99	38.50

EDGE1900

Channel No.	Frequency (MHz)	Modulation	Avg. Burst Power (dBm)	Duty Cycle Factor (dB)	Frame Power (dBm)	EIRP (dBm)	Limit (dBm)
512	1850.2	GMSK	24.82	-9	15.02	26.74	33.00
661	1880.0	GMSK	24.99	-9	14.99	26.75	33.00
810	1909.8	GMSK	25.18	-9	15.03	26.77	33.00

Radiated Measurement

GSM850

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
824.2	-9.34	H	24.35	1.76	-0.02	22.57	38.50	-15.93
824.2	-1.38	V	33.05	1.76	-0.02	31.27	38.50	-7.23
Middle Channel 189 (836.40MHz)								
836.4	-11.24	H	23.42	1.75	0.10	21.77	38.50	-16.73
836.4	-2.36	V	32.30	1.75	0.10	30.65	38.50	-7.85
High Channel 251 (848.80MHz)								
848.8	-11.83	H	22.16	1.78	0.13	20.51	38.50	-17.99
848.8	-1.78	V	32.81	1.78	0.13	31.16	38.50	-7.34

PCS1900

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
1850.2	23.85	H	21.92	2.68	10.40	29.64	33.00	-3.36
1850.2	15.94	V	13.82	2.68	10.40	21.54	33.00	-11.46
Middle Channel 661 (1880.00MHz)								
1880.0	24.16	H	22.21	2.68	10.43	29.96	33.00	-3.04
1880.0	15.07	V	12.77	2.68	10.43	20.52	33.00	-12.48
High Channel 810 (1909.80MHz)								
1909.8	23.94	H	22.17	2.70	10.44	29.91	33.00	-3.09
1909.8	14.58	V	12.37	2.70	10.44	20.11	33.00	-12.89

GPRS 850

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
824.2	-9.96	H	23.73	1.76	-0.02	21.95	38.50	-16.55
824.2	-1.78	V	32.66	1.76	-0.02	30.88	38.50	-7.62
Middle Channel 189 (836.40MHz)								
836.4	-11.47	H	22.32	1.75	0.10	20.67	38.50	-17.83
836.4	-2.47	V	32.20	1.75	0.10	30.55	38.50	-7.95
High Channel 251 (848.80MHz)								
848.8	-11.44	H	22.55	1.78	0.13	20.90	38.50	-17.6
848.8	-1.95	V	32.63	1.78	0.13	30.98	38.50	-7.52

GPRS1900

Frequency (MHz)	SA Reading (dBm)	Ant .Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
1850.2	23.75	H	21.82	2.68	10.40	29.54	33.00	-3.46
1850.2	15.71	V	13.59	2.68	10.40	21.31	33.00	-11.69
Middle Channel 661 (1880.00MHz)								
1880.0	24.02	H	22.06	2.68	10.43	29.81	33.00	-3.19
1880.0	14.56	V	12.27	2.68	10.43	20.02	33.00	-12.98
High Channel 810 (1909.80MHz)								
1909.8	23.83	H	22.06	2.70	10.44	29.80	33.00	-3.20
1909.8	15.70	V	13.49	2.70	10.44	21.23	33.00	-11.77

EDGE 850

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
824.2	-11.28	H	22.41	1.76	-0.02	20.63	38.50	-17.87
824.2	-4.58	V	29.85	1.76	-0.02	28.07	38.50	-10.43
Middle Channel 189 (836.40MHz)								
836.4	-15.21	H	18.58	1.75	0.10	16.93	38.50	-21.57
836.4	-5.85	V	28.81	1.75	0.10	27.16	38.50	-11.34
High Channel 251 (848.80MHz)								
848.8	-15.17	H	18.82	1.78	0.13	17.17	38.50	-21.33
848.8	-4.95	V	29.64	1.78	0.13	27.99	38.50	-10.51

EDGE1900

Frequency (MHz)	SA Reading (dBm)	Ant .Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
1850.2	20.95	H	19.02	2.68	10.40	26.74	33.00	-6.26
1850.2	13.81	V	11.69	2.68	10.40	19.41	33.00	-13.59
Middle Channel 661 (1880.00MHz)								
1880.0	20.96	H	19.00	2.68	10.43	26.75	33.00	-6.25
1880.0	12.52	V	10.23	2.68	10.43	17.98	33.00	-15.02
High Channel 810 (1909.80MHz)								
1909.8	20.80	H	19.03	2.70	10.44	26.77	33.00	-6.23
1909.8	13.91	V	11.70	2.70	10.44	19.44	33.00	-13.56

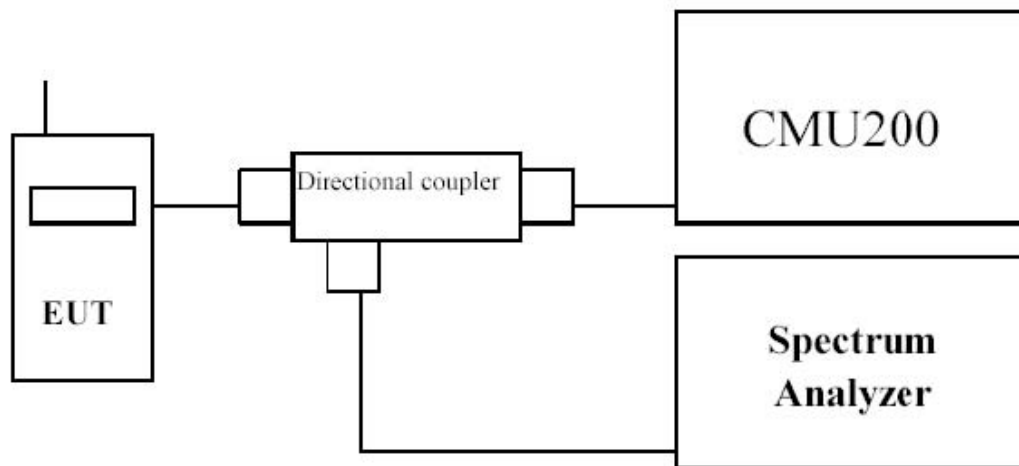
4. Occupied Bandwidth

4.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2012.04.10
Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Dual Directional Coupler	Agilent	778D	20160	2012.04.20
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2012.04.20
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2012.01.14

4.2. Test Setup



4.3. Limit

N/A

4.4. Test Procedure

Using Occupied Bandwidth measurement function of spectrum analyzer, and setting as follows:

For GSM 850/1900 test --- RBW = 3 kHz and VBW = 10 kHz

4.5. Uncertainty

The measurement uncertainty is defined as ± 10 Hz

4.6. Test Result

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: GSM850 Link		
Date of Test	2011/08/16	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
128	824.20	309.61	243.48
189	836.40	311.75	250.05
251	848.80	312.19	245.97

Figure Channel 128 (824.20MHz)

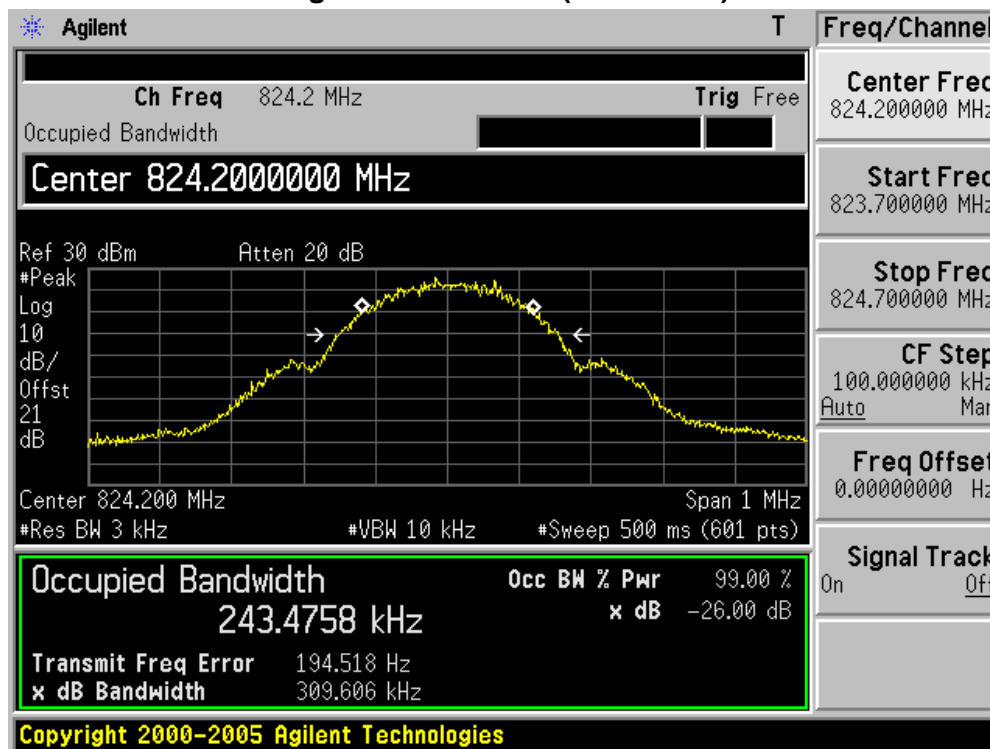
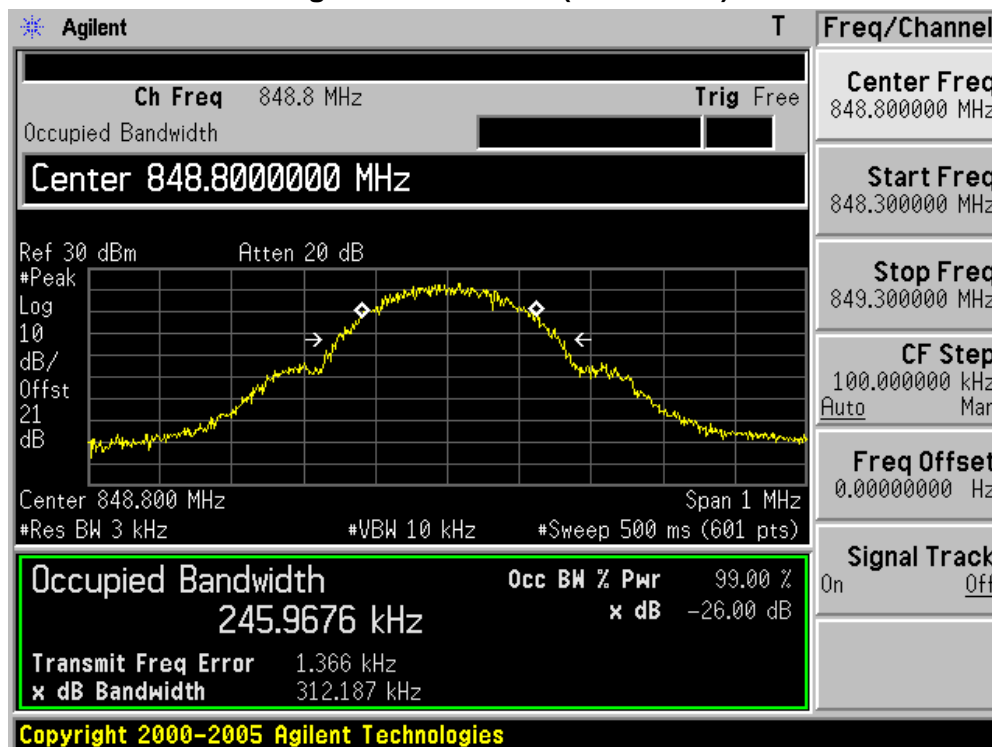


Figure Channel 189 (836.40MHz)



Figure Channel 251 (848.80MHz)



Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: PCS 1900 Link		
Date of Test	2011/08/16	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
512	1850.20	316.17	244.09
661	1880.00	313.32	242.79
810	1909.80	314.78	242.77

Figure Channel 512 (1850.20MHz)

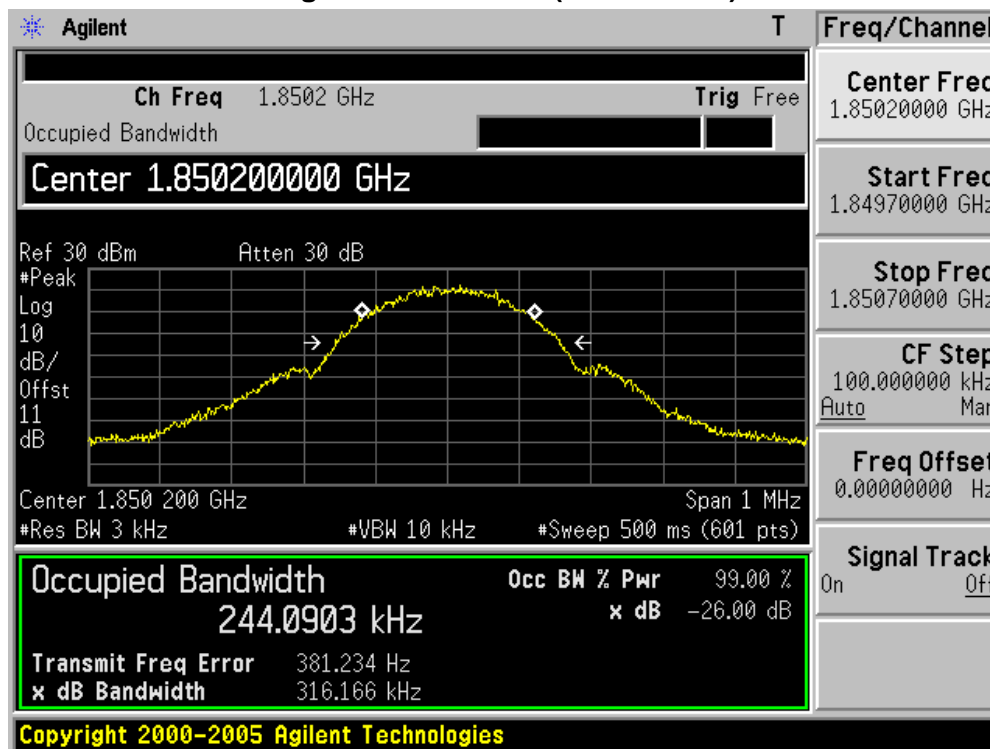


Figure Channel 661 (1880.00MHz)

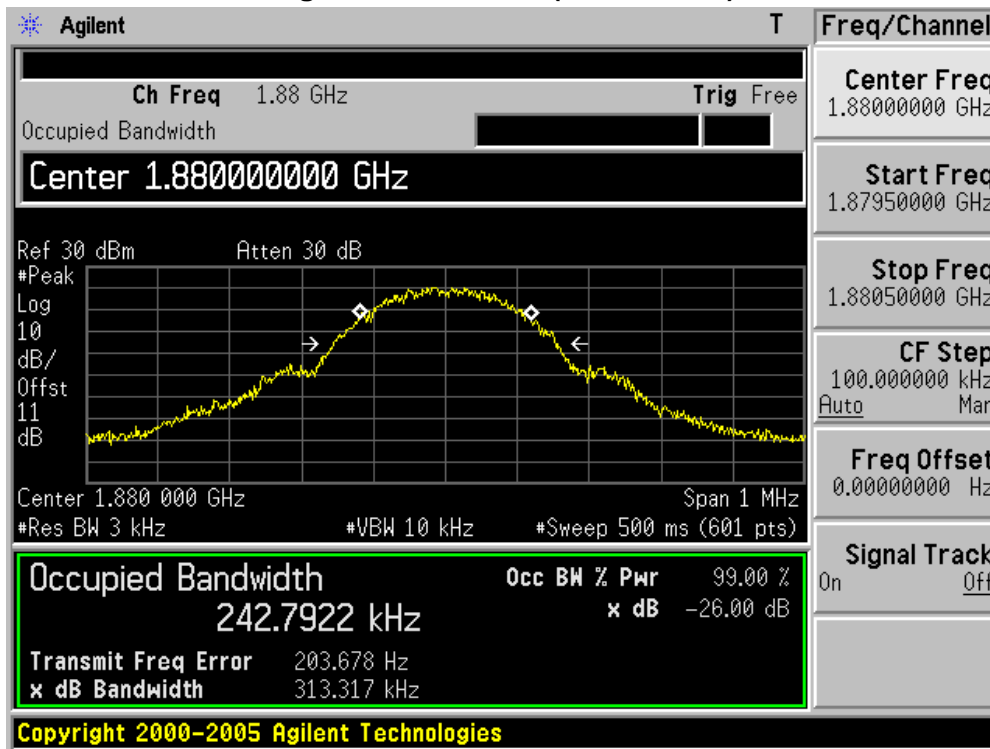


Figure Channel 810 (1909.80MHz)



Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: EDGE850 Link		
Date of Test	2011/08/16	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
128	824.20	313.63	245.80
189	836.40	310.05	246.34
251	848.80	310.44	245.38

Figure Channel 128 (824.20MHz)

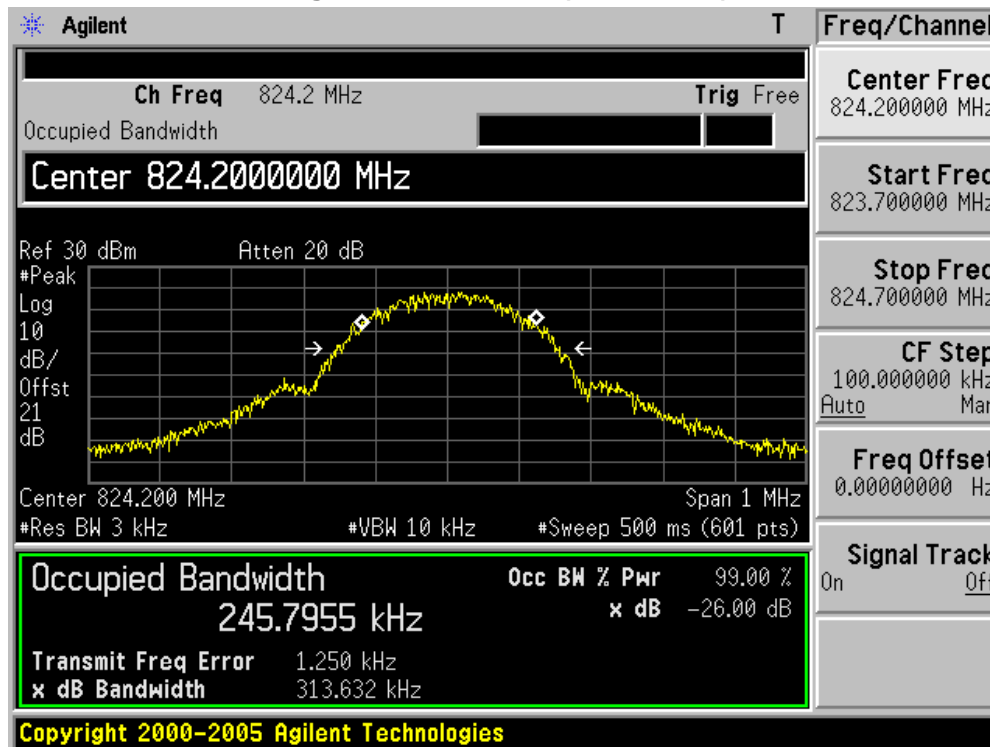


Figure Channel 189 (836.40MHz)

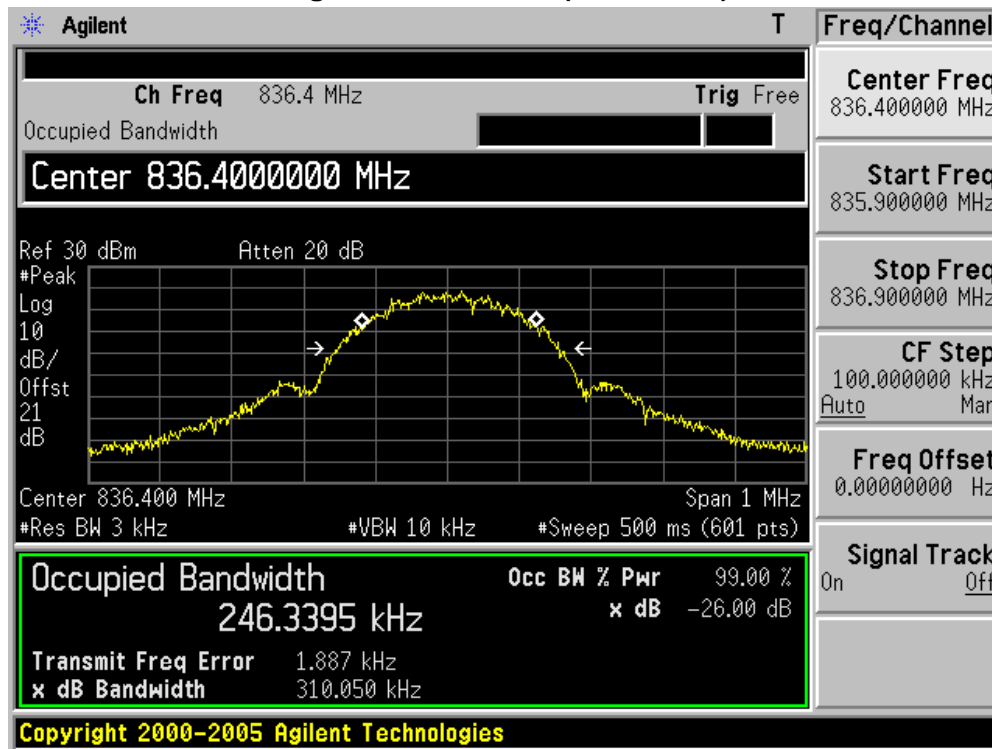
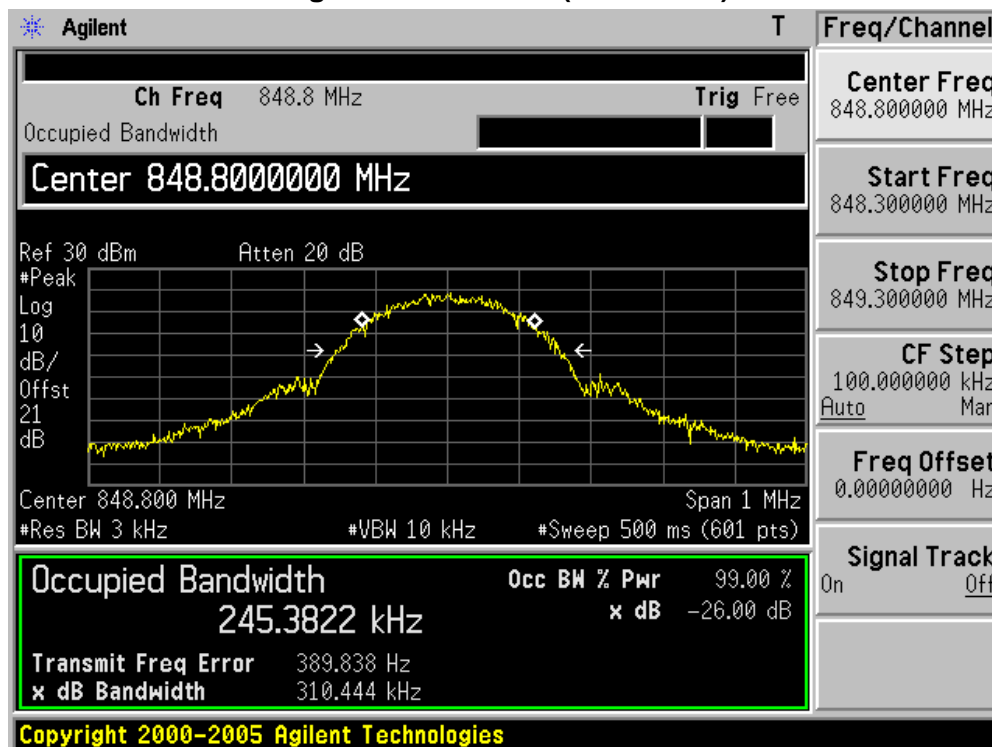


Figure Channel 251 (848.80MHz)



Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4: EDGE1900 Link		
Date of Test	2011/08/16	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
512	1850.20	310.56	250.73
661	1880.00	310.60	244.99
810	1909.80	299.27	247.39

Figure Channel 512 (1850.20MHz)

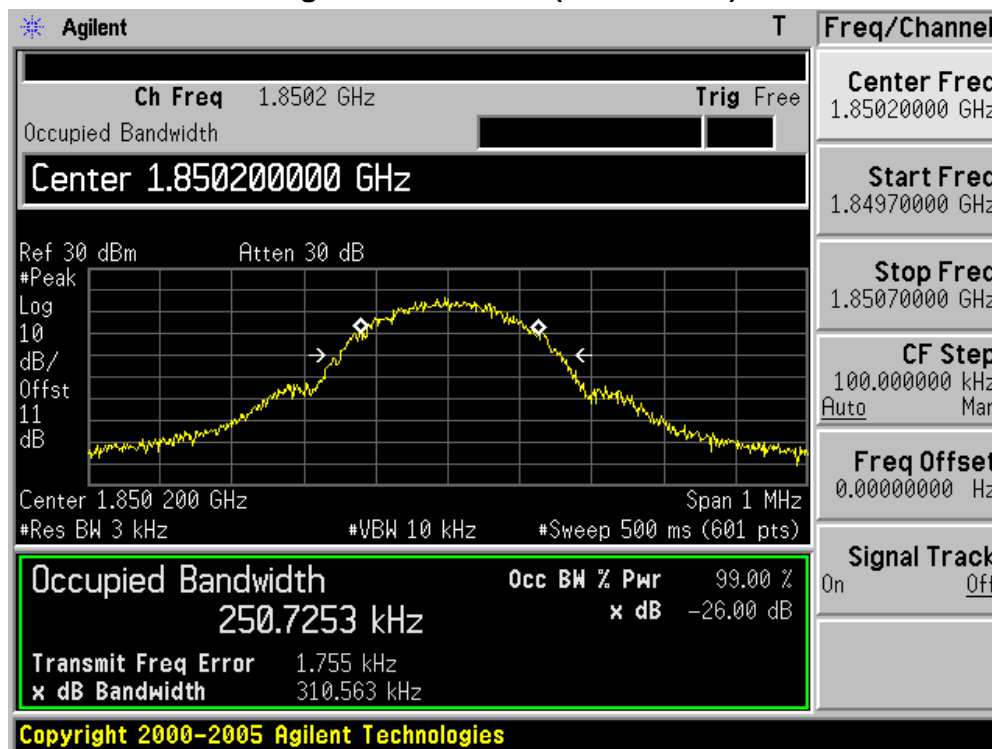


Figure Channel 661 (1880.00MHz)

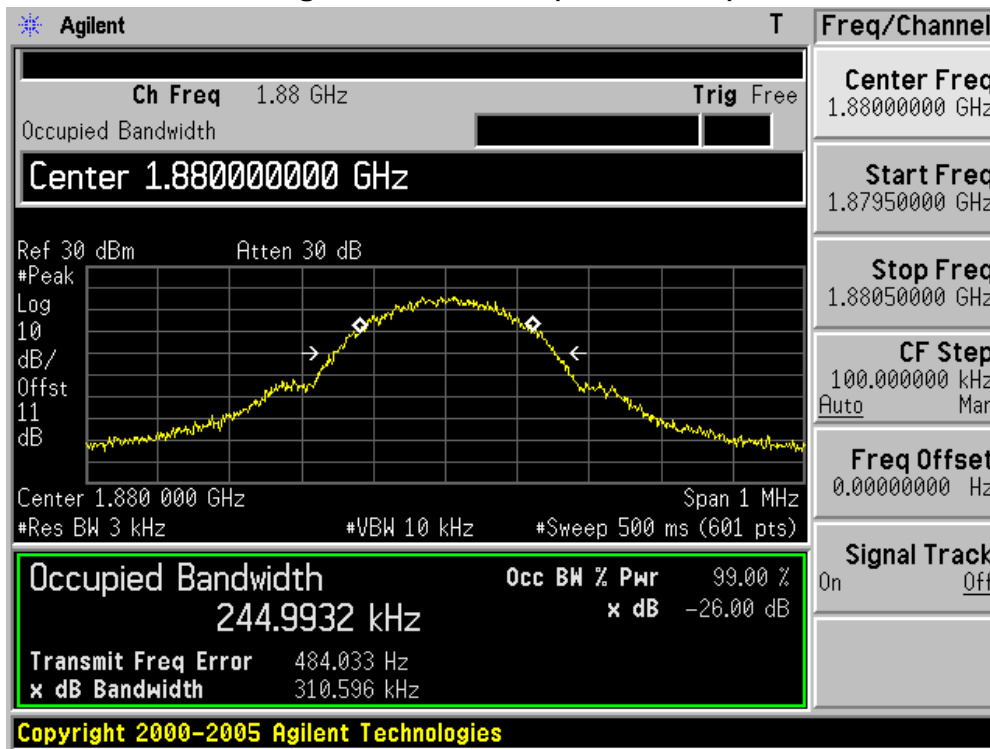
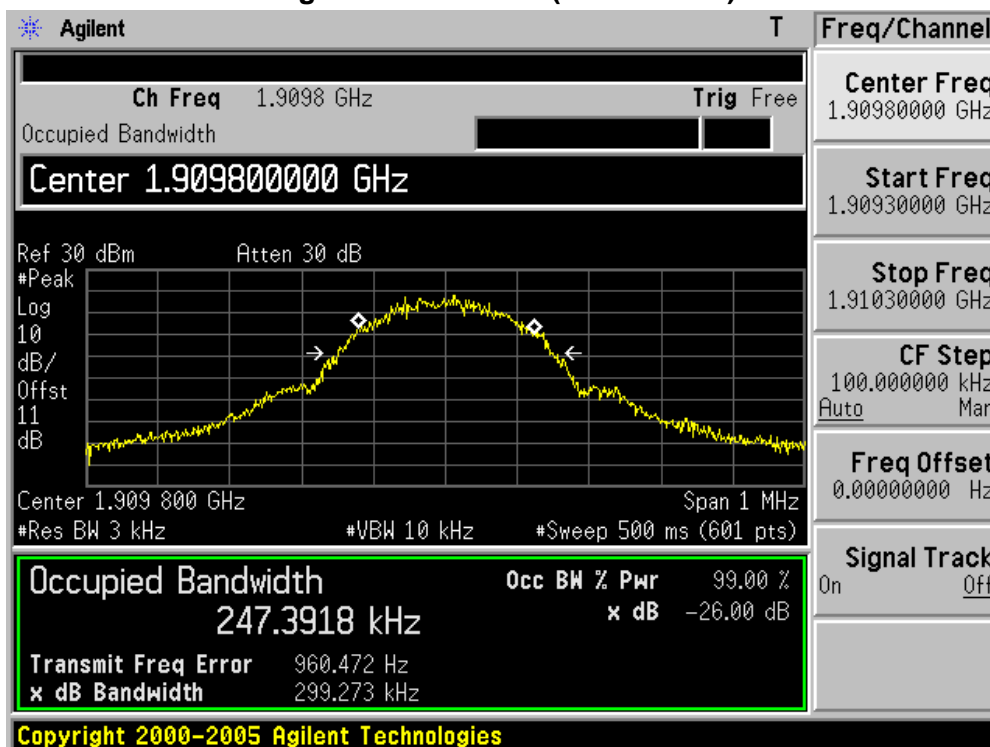


Figure Channel 810 (1909.80MHz)



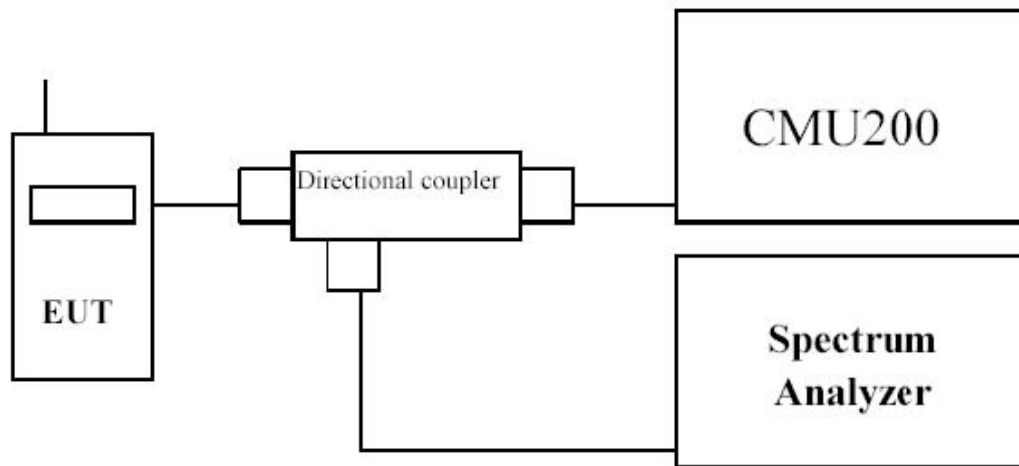
5. Spurious Emission At Antenna Terminals (+/- 1MHz)

5.1. Test Equipment

Spurious Emission At Antenna Terminals (+/- 1MHz) / AC-6

Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2012.04.10
Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Dual Directional Coupler	Agilent	778D	20160	2012.04.20
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2012.04.20
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2012.01.14

5.2. Test Setup



5.3. Limit

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.

5.4. Test Procedure

In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.2 dB.

5.6. Test Result

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 1: GSM 850 Link		
Date of Test	2011/08/16	Test Site	AC-6

Figure Channel 128 (824.20MHz)

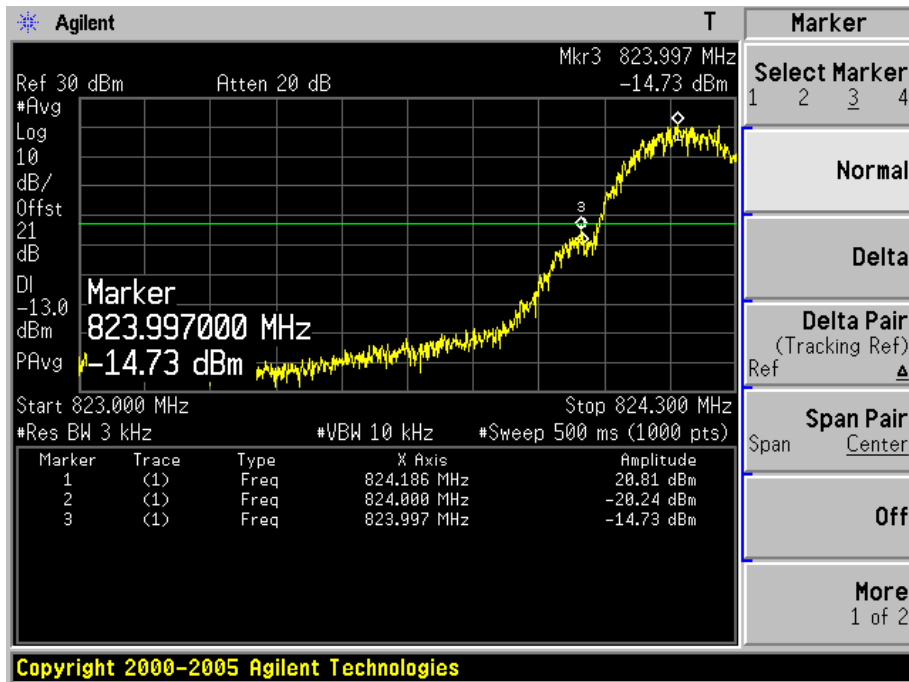
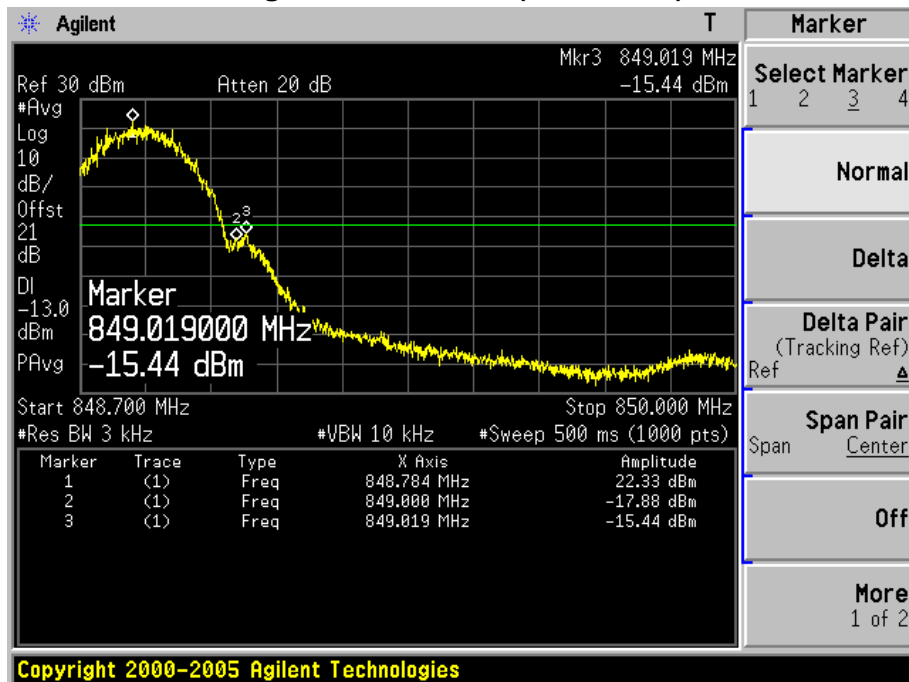


Figure Channel 251 (848.80MHz)



Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 2: PCS1900 Link		
Date of Test	2011/08/16	Test Site	AC-6

Figure Channel 512 (1850.20MHz)

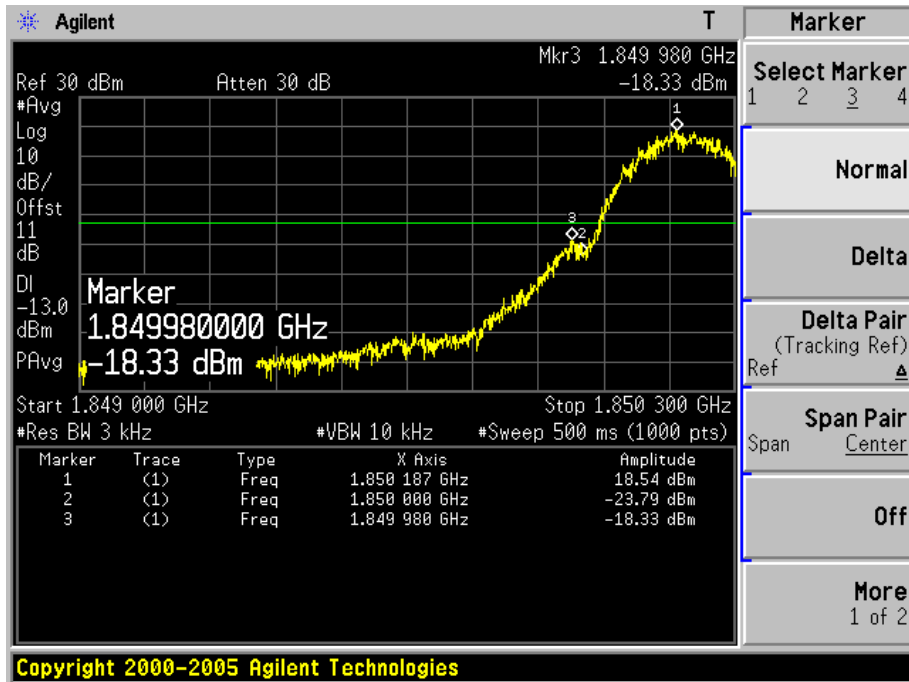
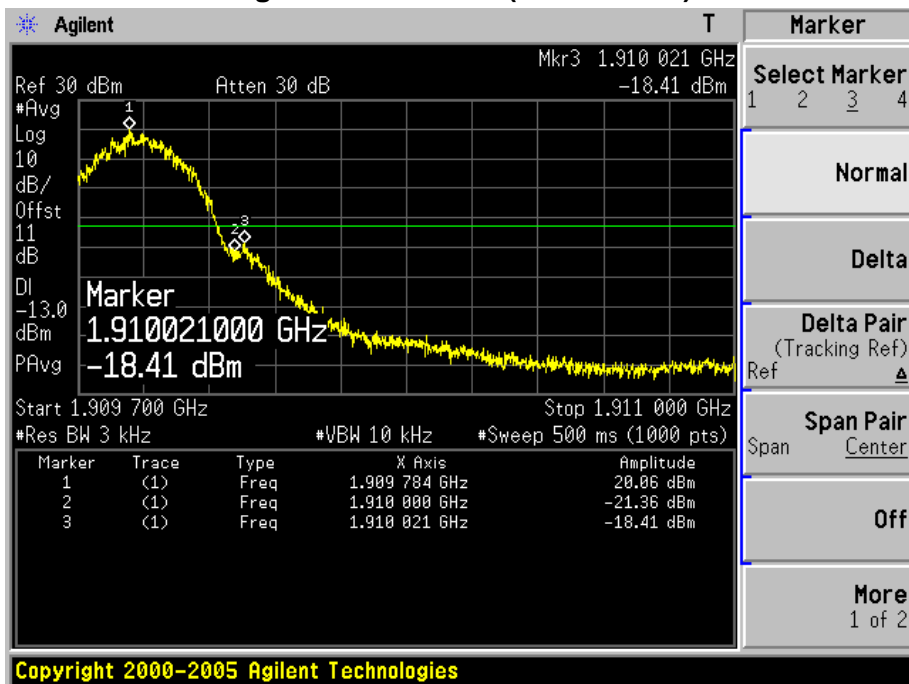


Figure Channel 810 (1909.80MHz)



Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 3: EDGE 850 Link		
Date of Test	2011/08/16	Test Site	AC-6

Figure Channel 128 (824.20MHz)

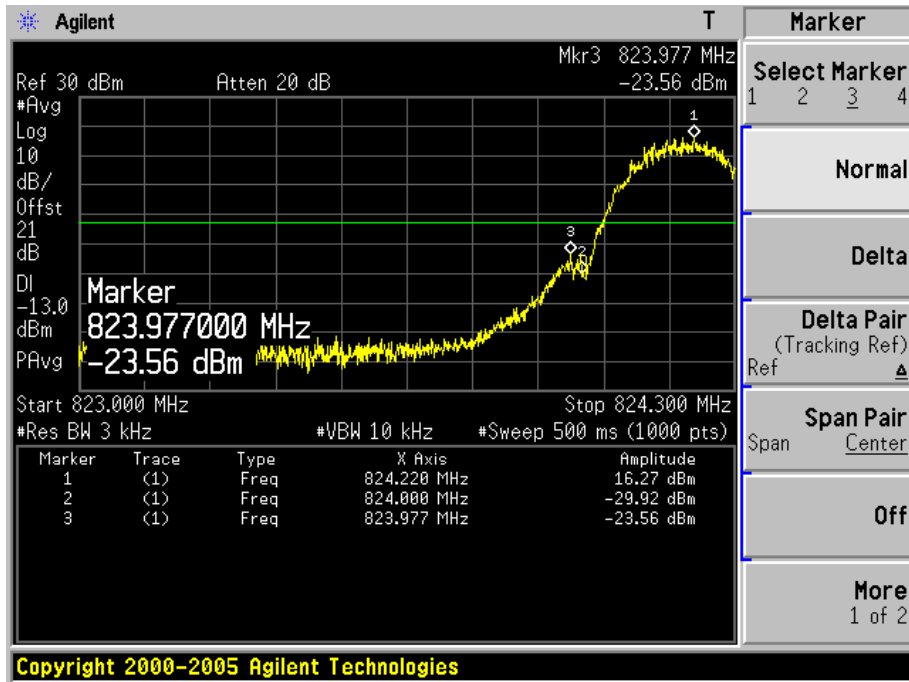
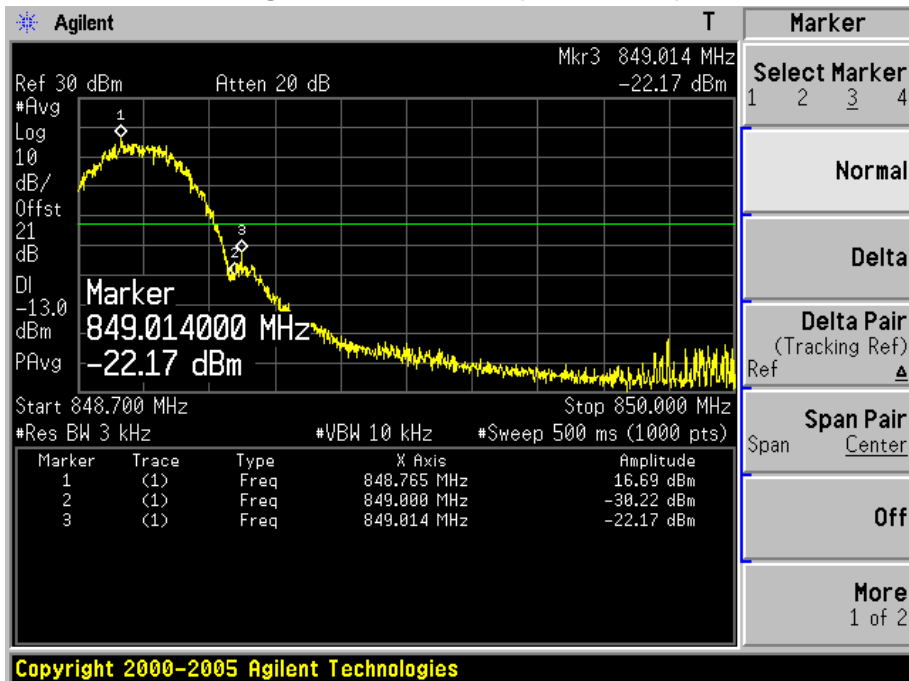


Figure Channel 251 (848.80MHz)



Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 4: EDGE1900 Link		
Date of Test	2011/08/16	Test Site	AC-6

Figure Channel 512 (1850.20MHz)

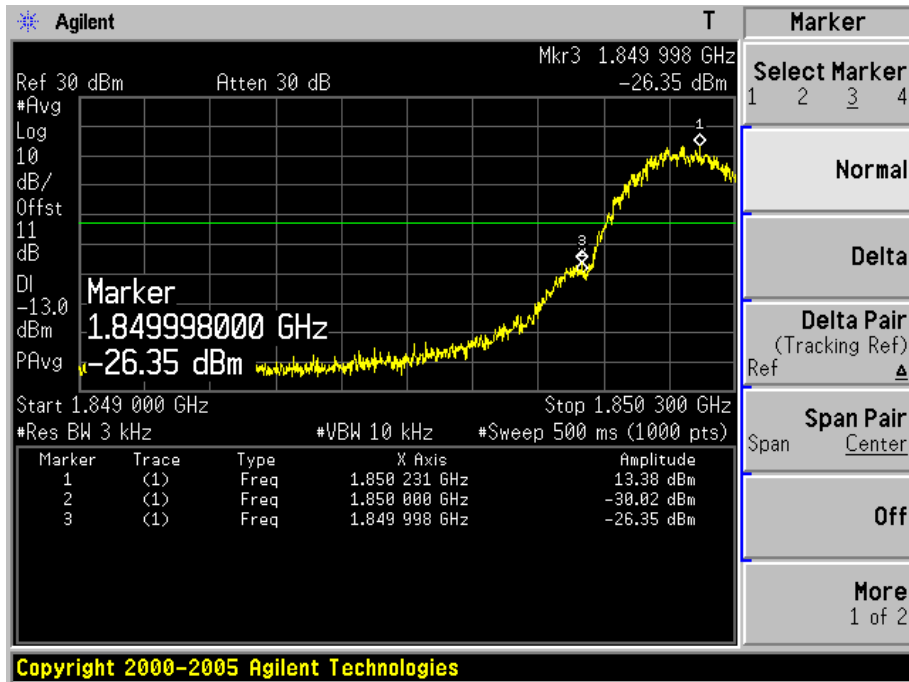
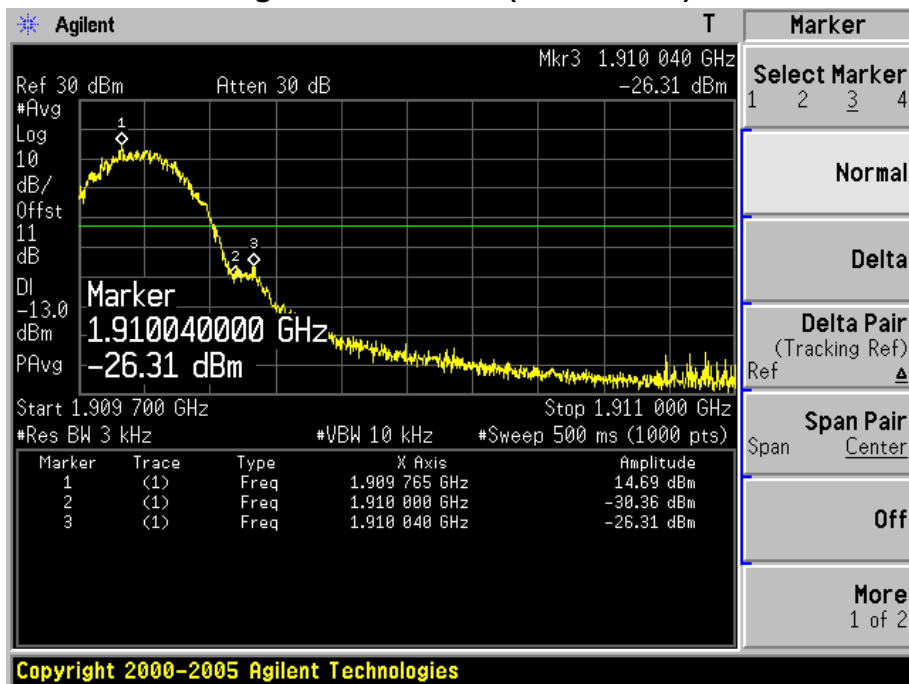


Figure Channel 810 (1909.80MHz)



6. Spurious Emission

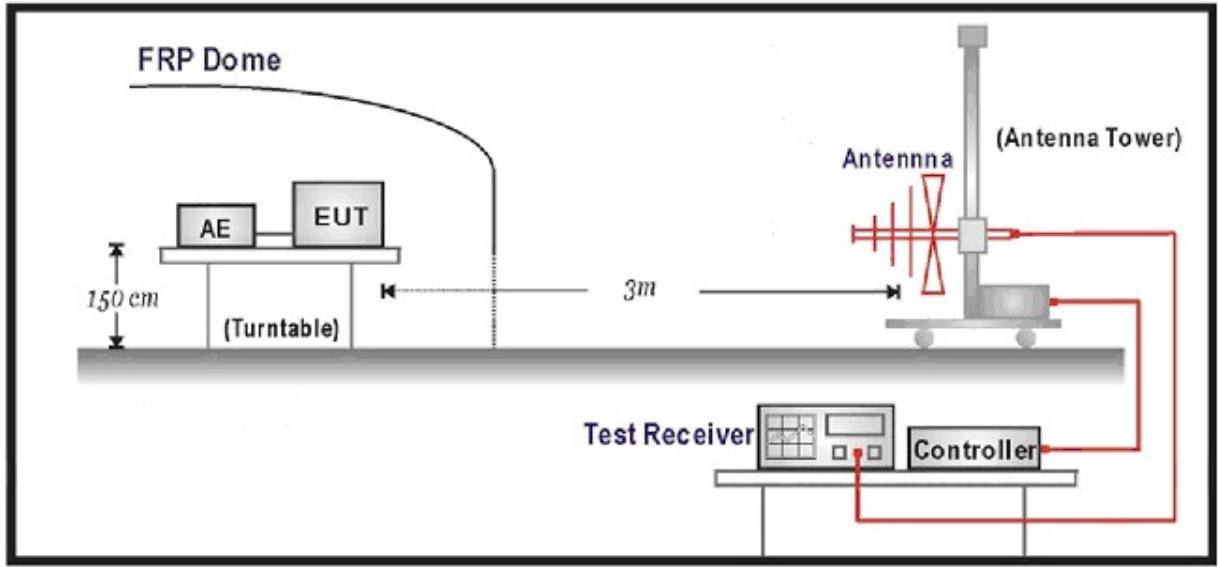
6.1. Test Equipment

Spurious Emission / AC-5

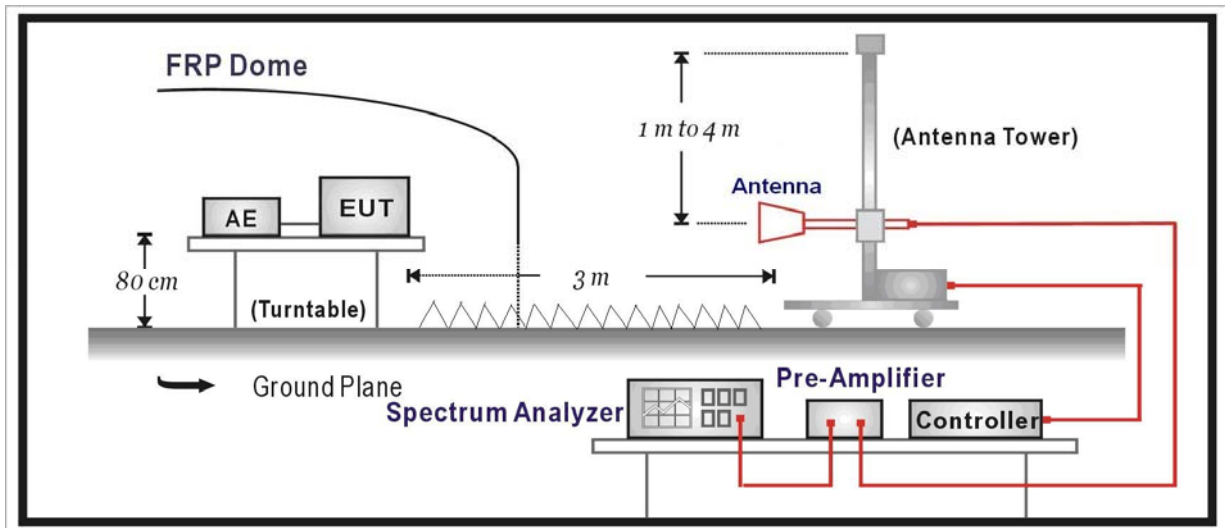
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2012.04.10
Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Dual Directional Coupler	Agilent	778D	20160	2012.04.20
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2012.04.20
PSG Analog Signal Generator	Agilent	E8257D	MY44321116	2012.04.23
Preamplifier	QuieTek	AP-025C	CHM-0503006	2012.05.05
Preamplifier	Miteq	NSP1800-25	1364185	2012.05.05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2011.10.18
Half Wave Tuned Dipole Antenna	COM-POWER	AD-100	40137	2011.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2011.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2012.01.14

6.2. Test Setup

Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



6.3. Limit

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.

6.4. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- c) EUT Communicate with CMU200, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
- d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- v) The maximum signal level detected by the measuring receiver shall be noted.
- h) The transmitter shall be replaced by a substitution antenna.
- i) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- j) The substitution antenna shall be connected to a calibrated signal generator.
- k) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- l) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- m) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

- n) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- o) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- p) The frequency range was checked up to 10th harmonic.
- q) Test site anechoic chamber refer to ANSI C63.4: 2009

6.5. Uncertainty

The measurement uncertainty is defined as 3.2 dB for Radiated Power Measurement.

6.6. Test Result

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission		
Test Mode	Mode 1: GSM850 Traffic		
Date of Test	2011/08/16	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
1646.00	-55.17	V	-59.98	2.50	9.75	-52.73	-13.00	-39.73
2470.50	-62.39	V	-63.43	3.12	10.48	-56.07	-13.00	-43.07
1646.00	-55.23	H	-60.04	2.50	9.75	-52.79	-13.00	-39.79
2470.50	-58.96	H	-60.00	3.12	10.48	-52.64	-13.00	-39.64
Middle Channel 189 (836.40MHz)								
1671.50	-52.51	V	-57.33	2.52	9.95	-49.90	-13.00	-36.90
2513.00	-59.85	V	-61.32	3.18	10.62	-53.88	-13.00	-40.88
1671.50	-56.31	H	-60.88	2.52	9.95	-53.45	-13.00	-40.45
2513.00	-61.07	H	-62.15	3.18	10.62	-54.71	-13.00	-41.71
High Channel 251 (848.80MHz)								
1697.00	-48.00	V	-52.88	2.54	10.06	-45.36	-13.00	-32.36
2547.00	-61.85	V	-62.43	3.14	10.68	-54.89	-13.00	-41.89
1697.00	-55.59	H	-59.74	2.54	10.06	-52.22	-13.00	-39.22
2547.00	-61.35	H	-61.68	3.14	10.68	-54.14	-13.00	-41.14

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission		
Test Mode	Mode 2: PCS1900 Traffic		
Date of Test	2011/08/16	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
3703.00	-61.09	V	-59.87	3.84	12.69	-51.02	-13.00	-38.02
5547.50	-50.40	V	-44.66	4.82	13.15	-36.33	-13.00	-23.33
3703.00	-56.69	H	-55.47	3.84	12.69	-46.62	-13.00	-33.62
5547.50	-41.32	H	-35.58	4.82	13.15	-27.25	-13.00	-14.25
Middle Channel 661 (1880.00MHz)								
3762.50	-58.73	V	-57.66	3.73	12.72	-48.67	-13.00	-35.67
5641.00	-61.99	V	-56.21	4.93	13.14	-48.00	-13.00	-35.00
3762.50	-55.70	H	-54.55	3.73	12.72	-45.56	-13.00	-32.56
5641.00	-41.33	H	-35.87	4.93	13.14	-27.66	-13.00	-14.66
High Channel 810 (1909.80MHz)								
3822.00	-54.47	V	-52.91	4.02	12.73	-44.20	-13.00	-31.20
5726.00	-61.27	V	-54.80	4.87	13.11	-46.56	-13.00	-33.56
3822.00	-54.70	H	-52.98	4.02	12.73	-44.27	-13.00	-31.27
5726.00	-62.18	H	-56.09	4.87	13.11	-47.85	-13.00	-34.85

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission		
Test Mode	Mode 3: EDGE850 Traffic		
Date of Test	2011/08/16	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 128 (824.20MHz)								
1646.00	-57.35	V	-62.07	2.50	9.75	-54.82	-13.00	-41.82
2470.50	-62.89	V	-63.29	3.12	10.48	-55.93	-13.00	-42.93
1646.00	-57.18	H	-61.99	2.50	9.75	-54.74	-13.00	-41.74
2470.50	-62.19	H	-62.60	3.12	10.48	-55.24	-13.00	-42.24
Middle Channel 189 (836.40MHz)								
1671.50	-58.29	V	-63.10	2.52	9.95	-55.67	-13.00	-42.67
2513.00	-62.73	V	-63.37	3.18	10.62	-55.93	-13.00	-42.93
1671.50	-60.31	H	-64.88	2.52	9.95	-57.45	-13.00	-44.45
2513.00	-62.83	H	-62.32	3.18	10.62	-54.88	-13.00	-41.88
High Channel 251 (848.80MHz)								
1697.00	-53.66	V	-58.54	2.54	10.06	-51.02	-13.00	-38.02
2547.00	-62.25	V	-61.97	3.14	10.68	-54.43	-13.00	-41.43
1697.00	-59.97	H	-64.12	2.54	10.06	-56.60	-13.00	-43.60
2547.00	-63.54	H	-63.14	3.14	10.68	-55.60	-13.00	-42.60

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Spurious Emission		
Test Mode	Mode 4: EDGE1900 Traffic		
Date of Test	2011/08/16	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 512 (1850.20MHz)								
3703.00	-57.21	V	-55.90	3.84	12.69	-47.05	-13.00	-34.05
5547.50	-50.40	V	-44.05	4.82	13.15	-35.72	-13.00	-22.72
3703.00	-61.66	H	-60.43	3.84	12.69	-51.58	-13.00	-38.58
5547.50	-48.43	H	-42.69	4.82	13.15	-34.36	-13.00	-21.36
Middle Channel 661 (1880.00MHz)								
3762.50	-59.07	V	-58.00	3.73	12.72	-49.01	-13.00	-36.01
5641.00	-63.71	V	-59.21	4.93	13.14	-51.00	-13.00	-38.00
3762.50	-58.83	H	-57.68	3.73	12.72	-48.69	-13.00	-35.69
5641.00	-65.20	H	-59.07	4.93	13.14	-50.86	-13.00	-37.86
High Channel 810 (1909.80MHz)								
3822.00	-59.23	V	-57.66	4.02	12.73	-48.95	-13.00	-35.95
5726.00	-65.05	V	-58.58	4.87	13.11	-50.34	-13.00	-37.34
3822.00	-63.48	H	-62.55	4.02	12.73	-53.84	-13.00	-40.84
5726.00	-65.04	H	-59.08	4.87	13.11	-50.84	-13.00	-37.84

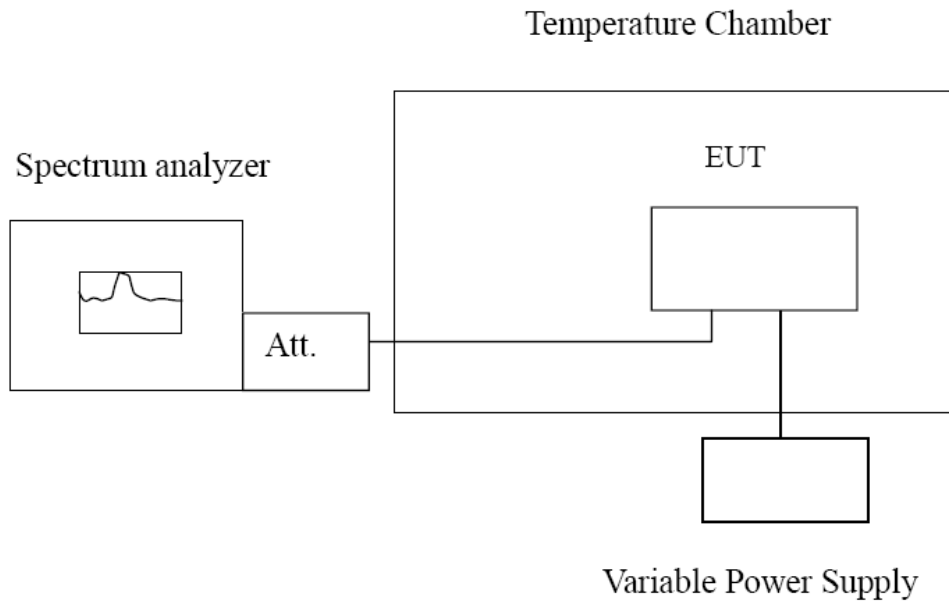
7. Frequency Stability Under Temperature & Voltage Variations

7.1. Test Equipment

Frequency Stability Under Temperature & Voltage Variations / AC-6

Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2012.04.10
Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Dual Directional Coupler	Agilent	778D	20160	2012.04.20
10dB Coaxial Coupler	Agilent	87300C	MY44300299	2012.04.20
DC Power Supply	IDRC	CD-035-020PR	977272	2011.10.21
Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2012.01.19
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC6-TH	2012.01.14

7.2. Test Setup



7.3. Limit

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limit	$< \pm 2.5 \text{ ppm}$
-------	-------------------------

7.4. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or 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 20°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.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / 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 ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.5. Uncertainty

The measurement uncertainty is defined as $\pm 10 \text{ Hz}$.

7.6. Test Result

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: GSM 850 Link		
Date of Test	2011/08/16	Test Site	AC6

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (kHz)
-10	836.40	-42	± 2091
0	836.40	-39	± 2091
10	836.40	-38	± 2091
20	836.40	-32	± 2091
30	836.40	-31	± 2091
40	836.40	-39	± 2091
50	836.40	-38	± 2091

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (KHz)
4.200	836.40	-34	± 2091
3.700	836.40	-39	± 2091
3.400	836.40	-33	± 4700

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 2: PCS1900 Link		
Date of Test	2011/08/16	Test Site	AC6

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (kHz)
-10	1880.00	-41	± 4700
0	1880.00	-39	± 4700
10	1880.00	-36	± 4700
20	1880.00	-41	± 4700
30	1880.00	-43	± 4700
40	1880.00	-35	± 4700
50	1880.00	-32	± 4700

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (KHz)
4.200	1880.00	-33	± 4700
3.700	1880.00	-36	± 4700
3.400	1880.00	-38	± 4700

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: EDGE 850 Link		
Date of Test	2011/08/16	Test Site	AC6

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (kHz)
-10	836.40	-36	± 2091
0	836.40	-37	± 2091
10	836.40	-34	± 2091
20	836.40	-32	± 2091
30	836.40	-39	± 2091
40	836.40	-41	± 2091
50	836.40	-43	± 2091

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (KHz)
4.200	836.40	-44	± 2091
3.700	836.40	-39	± 2091
3.400	836.40	-36	± 4700

Product	GSM/GPRS/EGPRS mobile phone		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 4: EDGE1900 Link		
Date of Test	2011/08/16	Test Site	AC6

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (kHz)
-10	1880.00	-46	± 4700
0	1880.00	-41	± 4700
10	1880.00	-40	± 4700
20	1880.00	-44	± 4700
30	1880.00	-39	± 4700
40	1880.00	-37	± 4700
50	1880.00	-39	± 4700

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (KHz)
4.200	1880.00	-35	± 4700
3.700	1880.00	-38	± 4700
3.400	1880.00	-42	± 4700

8. Receiver Spurious Emission for RSS 132/133

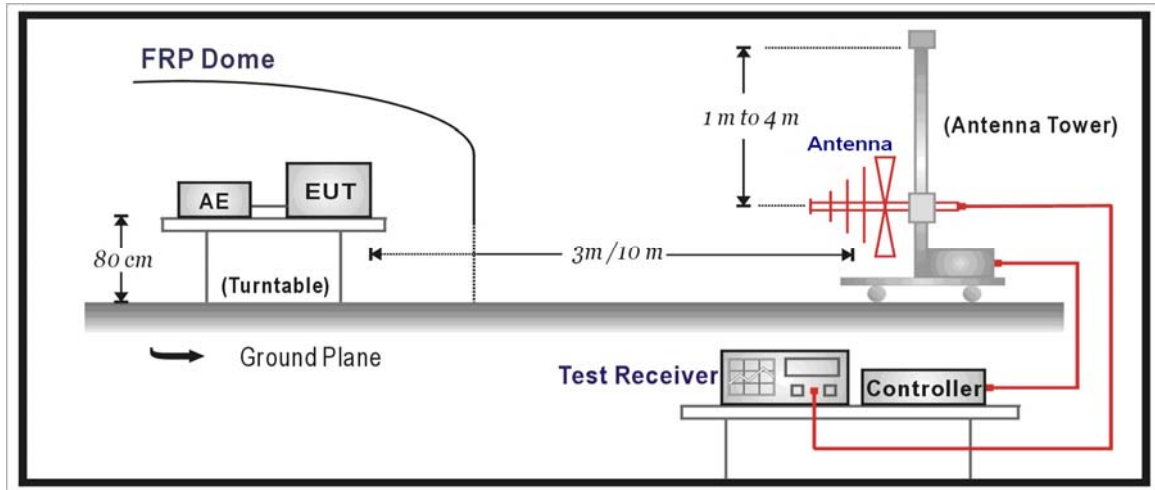
8.1. Test Equipment

Spurious Emission / AC-5

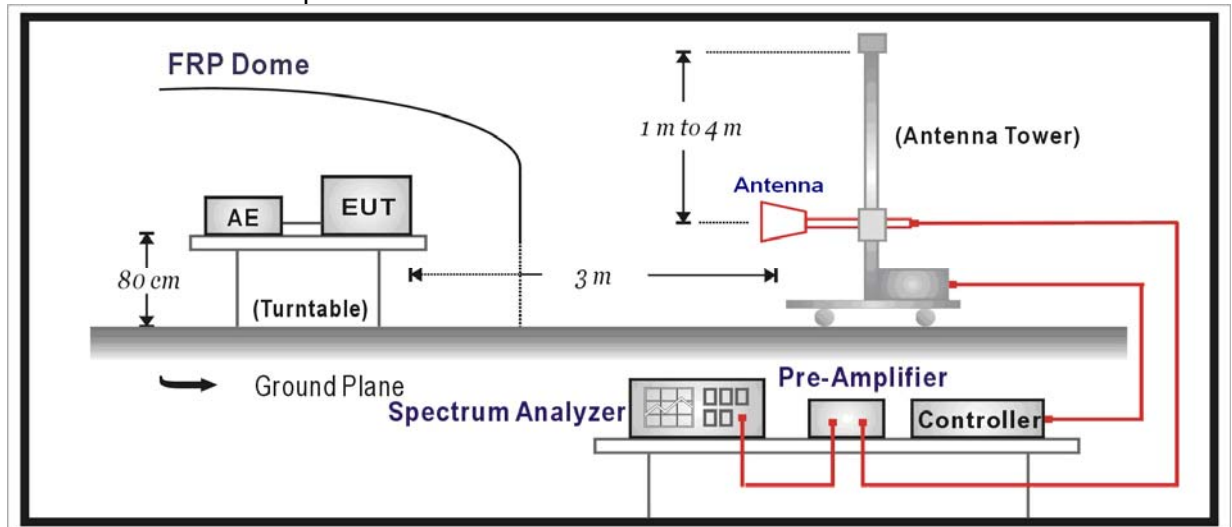
Instrument	Manufacturer	Type No.	Serial No	Cali. Due Date
PSA Series Spectrum Analyzer	Agilent	E4440A	MY49420184	2012.04.10
Radio Communication Tester	R&S	CMU 200	117088	2012.04.29
Preamplifier	QuieTek	AP-025C	CHM-0503006	2012.05.05
Preamplifier	Miteq	NSP1800-25	1364185	2012.05.05
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2011.10.18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2012.06.11
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2012.01.14

8.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



8.3. Limit

According to Standard RSS132/133 refer to RSS-Gen Issue 2.

Field Strength micro-volts/m at 3 meters		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

8.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 10 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

For class A, the measurement distance between the EUT and antenna is 10 meters for under

1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT

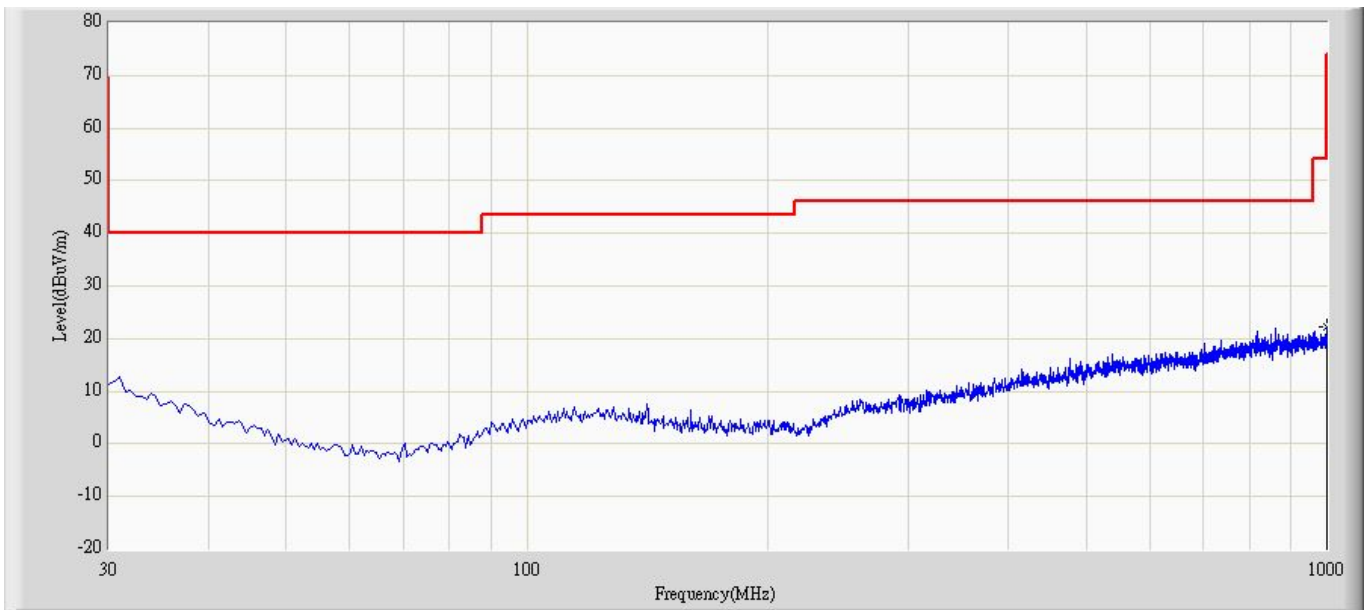
8.5. Uncertainty

The measurement uncertainty is defined as 3.2 dB for Radiated Power Measurement.

8.6. Test Result

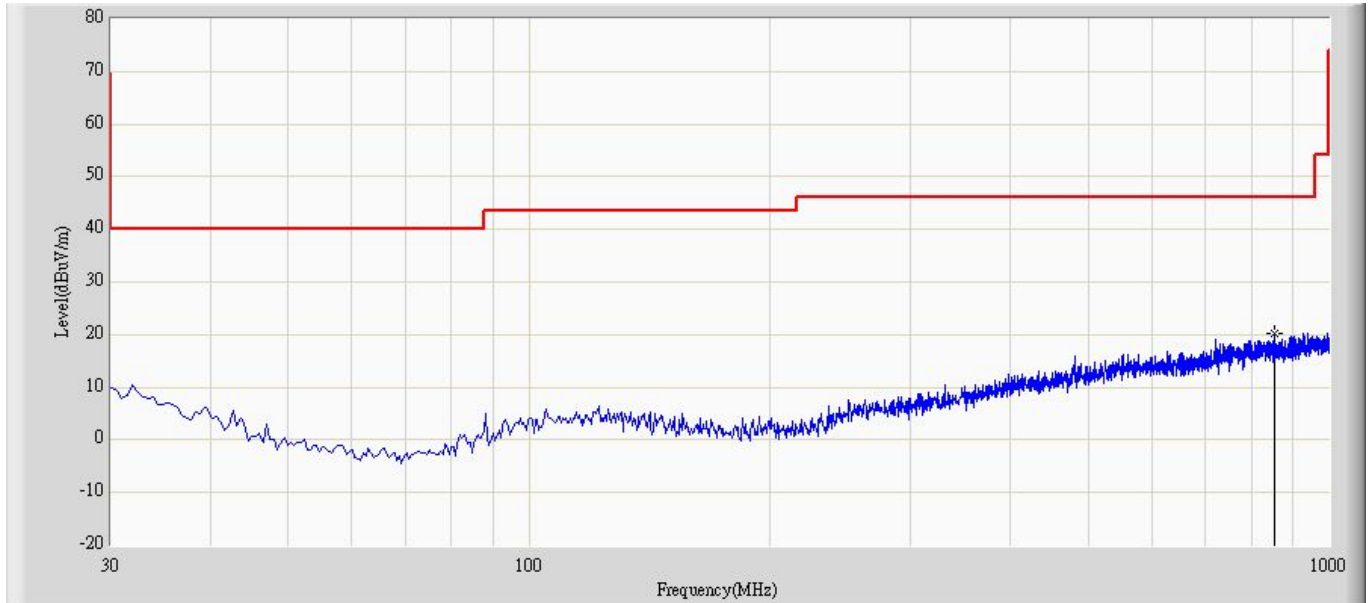
No significant emissions measurable. Plots reported here represent the worse case emissions.

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 11:12
Limit: RSS_GEN_Radiation_03M_QP	Margin: 0
Probe: CBL6112D_(30-2000MHz) - HORIZONTAL	Polarity: Horizontal
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: GSM850 Idle	



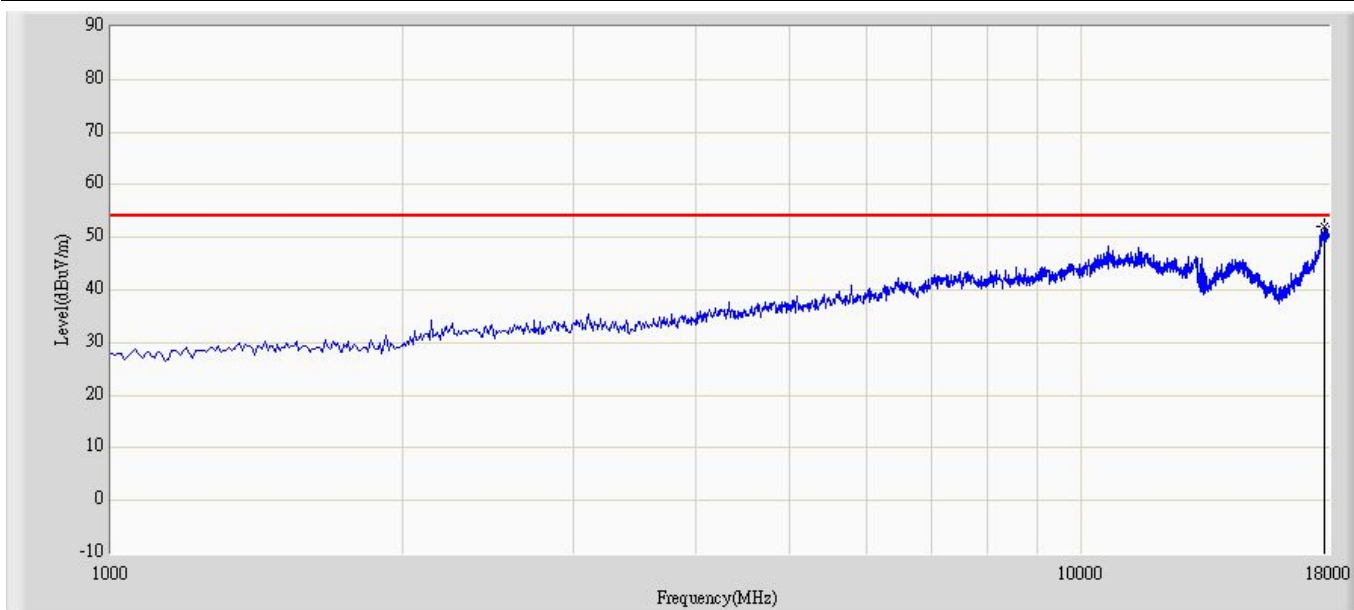
This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 11:14
Limit: RSS_GEN_Radiation_03M_QP	Margin: 0
Probe: CBL6112D_(30-2000MHz) - HORIZONTAL	Polarity: Vertical
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: GSM850 Idle	



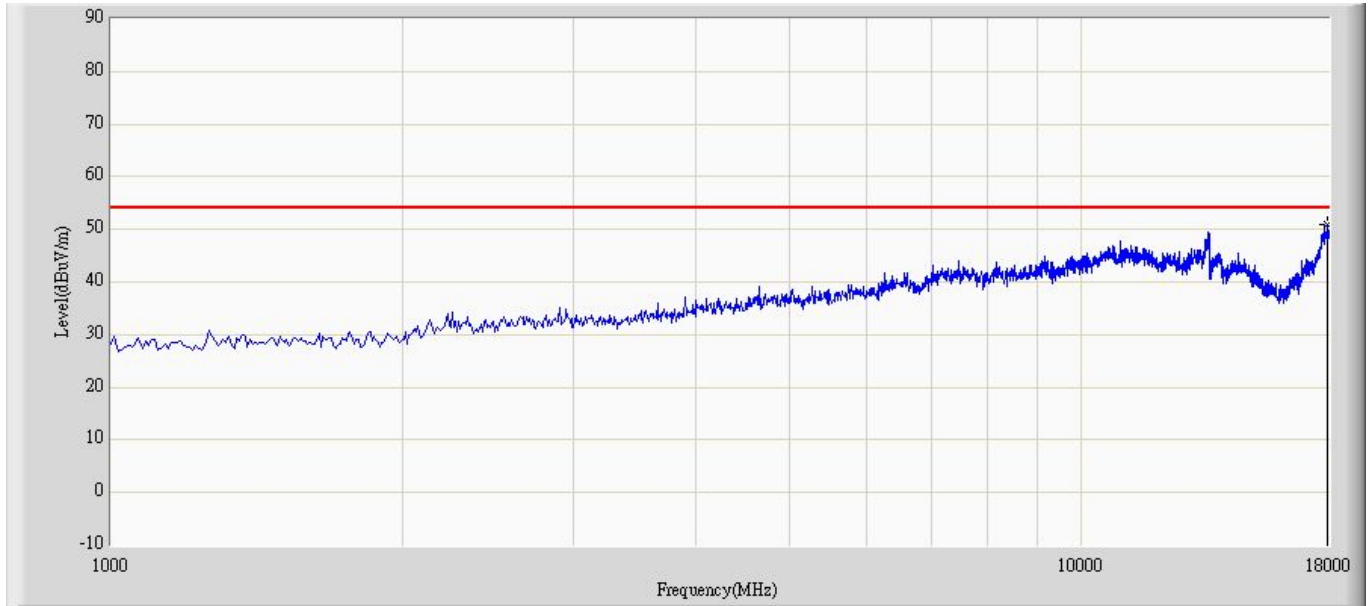
This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 10:51
Limit: RSS_GEN_Radiation_03M_PK	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: GSM850 Idle	



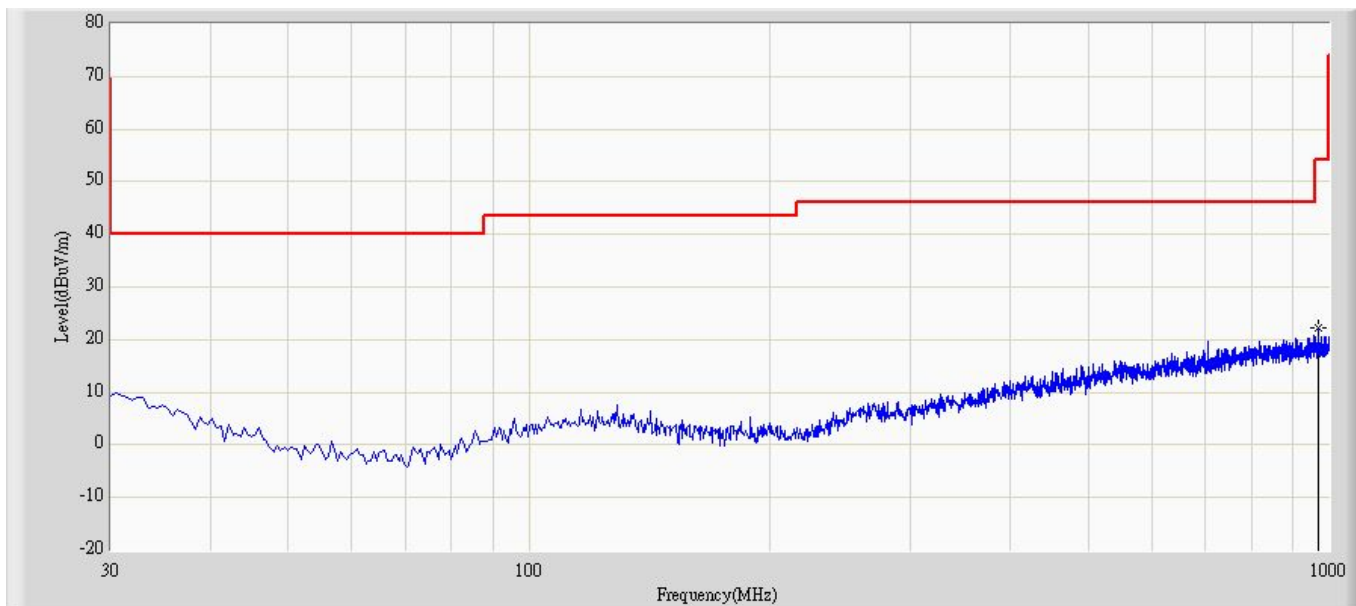
This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 10:55
Limit: RSS_GEN_Radiation_03M_PK	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: GSM850 Idle	



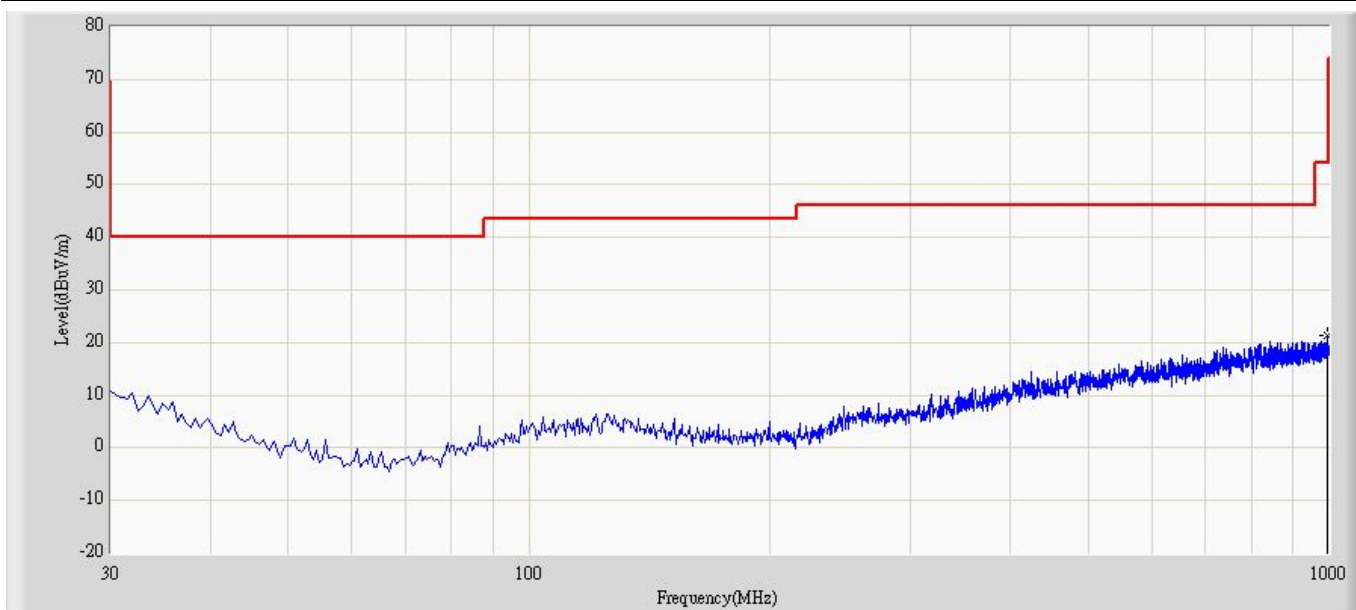
This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 11:17
Limit: RSS_GEN_Radiation_03M_QP	Margin: 0
Probe: CBL6112D_(30-2000MHz) - HORIZONTAL	Polarity: Horizontal
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: PCS1900 Idle	



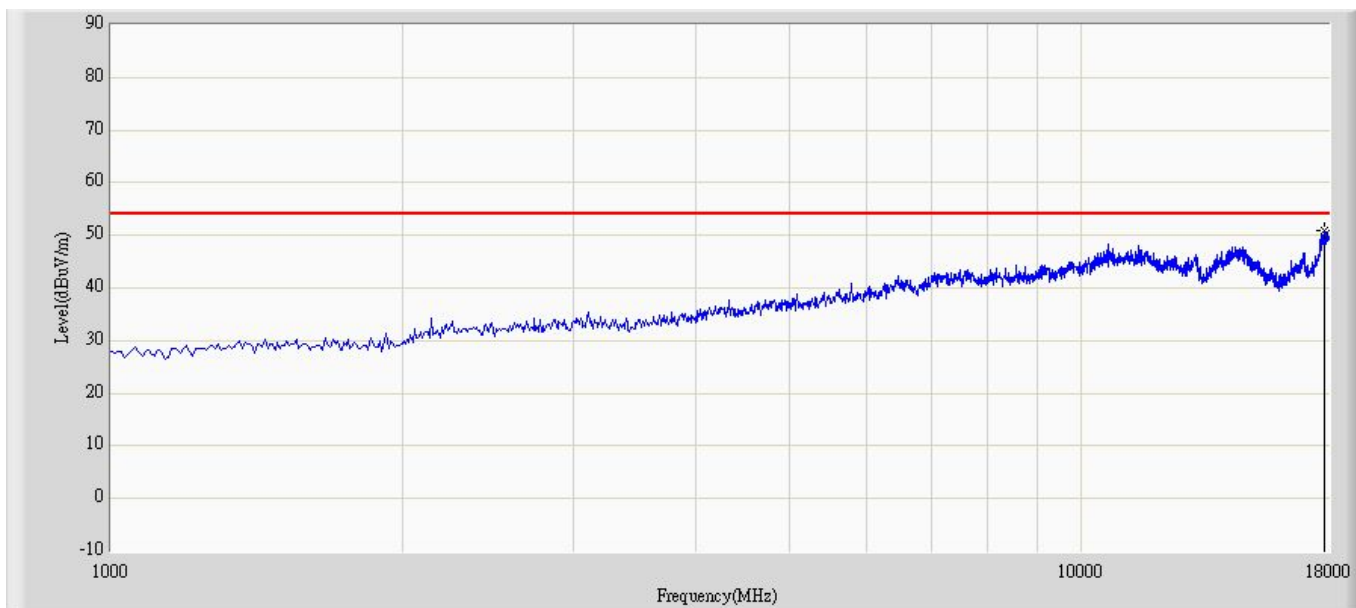
This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 11:16
Limit: RSS_GEN_Radiation_03M_QP	Margin: 0
Probe: CBL6112D_(30-2000MHz) - HORIZONTAL	Polarity: Vertical
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: PCS1900 Idle	



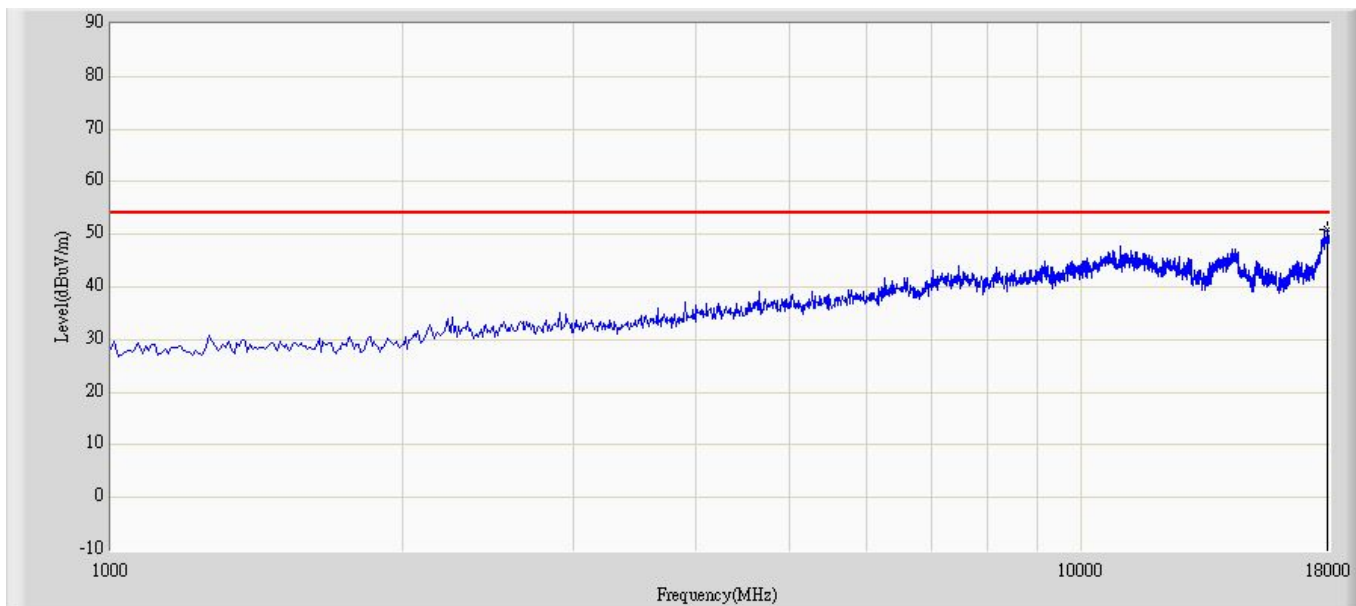
This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 10:56
Limit: RSS_GEN_Radiation_03M_PK	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Horizontal
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: PCS1900 Idle	



This plot is valid for low, mid & high channels (worst-case plot).

Engineer: Sunny	
Site: AC5	Time: 2011/08/15 - 10:56
Limit: RSS_GEN_Radiation_03M_PK	Margin: 0
Probe: BBHA9120D_499(1-18GHz)	Polarity: Vertical
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: PCS1900 Idle	



This plot is valid for low, mid & high channels (worst-case plot).