

FCC RF Test Report

APPLICANT : CT Asia
EQUIPMENT : GSM / WCDMA mobile phone
BRAND NAME : BLU
MODEL NAME : VIVO 4.3
FCC ID : YHLBLUVIVO43
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Aug. 15, 2012 and completely tested on Aug. 29, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG281501	Rev. 01	Initial issue of report	Aug. 29, 2012

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	N/A	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(a)	N/A	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 15.40 dB at 5640.000 MHz
3.8	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

CT Asia

RMA2011, 20/F, GOLDEN CENTRAL TOWER, NO.3037# JINTIAN ROAD, FUTIAN DISTRICT

1.2 Manufacturer

Gionee Communication Equipment Co., Ltd.

32F, Tower A, East Pacific International Center, No.7888, Shennan Avenue, Futian District, Shenzhen-518040, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	GSM / WCDMA mobile phone
Brand Name	BLU
Model Name	VIVO 4.3
FCC ID	YHLBLUVIVO43
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/WLAN 11bg/Bluetooth
HW Version	GN868H_Mainboard_P3
SW Version	GN868H_0301_v1014
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Product Specification subjective to this standard	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna	GSM850 : 32.63 dBm GSM1900 : 29.62 dBm WCDMA Band V : 23.79 dBm WCDMA Band II : 22.98 dBm
Antenna Type	Fixed Internal Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)

1.4 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (% , Hz, ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.8669	0.02 ppm	248KGXW
Part 22	GSM850 EDGE 8	8PSK	0.2086	0.02 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.1219	0.01 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	1.8836	0.01 ppm	250KGXW
Part 24	GSM1900 EDGE 8	8PSK	0.8299	0.02 ppm	248KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.4508	0.01 ppm	4M18F9W

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	TH01-KS	03CH01-KS	149928/4086E-1

1.6 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- ♦ IC RSS-132 Issue 2
- ♦ IC RSS-133 Issue 5

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.7 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GSM Link + SIM 1 ■ EDGE 8 Link + SIM 1	■ GSM Link + SIM 1 ■ EDGE 8 Link + SIM 1
GSM 1900	■ GSM Link + SIM 1 ■ EDGE 8 Link + SIM 1	■ GSM Link + SIM 1 ■ EDGE 8 Link + SIM 1
WCDMA Band V	■ RMC 12.2Kbps Link + SIM 1	■ RMC 12.2Kbps Link + SIM 1
WCDMA Band II	■ RMC 12.2Kbps Link + SIM 1	■ RMC 12.2Kbps Link + SIM 1

Note:

1. The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.
2. Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

The conducted power tables are as follows:

For Card Slot 1

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.63	32.48	32.44	28.96	29.29	29.62
GPRS 8	32.62	32.47	32.43	28.96	29.28	29.61
GPRS 10	31.92	31.76	31.55	28.11	28.43	28.78
GPRS 11	29.93	29.76	29.66	26.39	26.70	27.03
GPRS 12	28.87	28.71	28.61	25.57	25.91	26.24
EGPRS 8	26.27	26.12	26.15	24.90	24.73	25.00
EGPRS 10	25.32	25.06	25.20	23.90	23.67	24.01
EGPRS 11	23.18	22.92	23.03	21.90	21.67	22.00
EGPRS 12	22.07	21.90	21.95	20.72	20.58	20.84

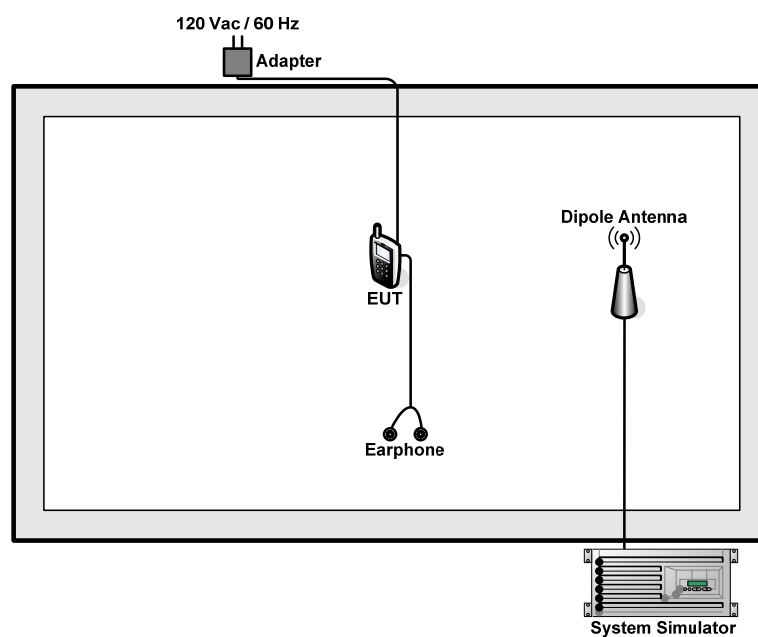
Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6
RMC 12.2K	23.75	23.79	23.63	22.98	22.71	22.80
HSDPA Subtest-1	23.69	23.74	23.64	22.95	22.71	22.79
HSDPA Subtest-2	22.59	22.70	22.62	21.82	21.63	21.66
HSDPA Subtest-3	22.10	22.22	22.14	21.31	21.16	21.22
HSDPA Subtest-4	22.08	22.23	22.11	21.32	21.12	21.24
HSUPA Subtest-1	20.86	20.92	20.85	20.65	20.41	20.52
HSUPA Subtest-2	19.69	19.78	19.68	19.55	19.35	19.45
HSUPA Subtest-3	20.71	20.70	20.55	20.26	20.06	20.22
HSUPA Subtest-4	19.78	19.76	19.66	19.55	19.23	19.33
HSUPA Subtest-5	20.90	20.88	20.77	20.75	20.43	20.61

For Card Slot 2

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.60	32.48	32.41	28.94	29.27	29.62
GPRS 8	32.60	32.47	32.41	28.93	29.27	29.61
GPRS 10	31.90	31.75	31.54	28.11	28.42	28.77
GPRS 11	29.91	29.75	29.64	26.38	26.70	27.01
GPRS 12	28.86	28.69	28.60	25.55	25.89	26.23
EGPRS 8	26.26	26.11	26.15	24.89	24.72	25.00
EGPRS 10	25.30	25.04	25.18	23.90	23.65	23.99
EGPRS 11	23.17	22.91	23.01	21.88	21.66	21.99
EGPRS 12	22.05	21.90	21.94	20.71	20.56	20.82

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6
RMC 12.2K	23.73	23.77	23.60	22.96	22.70	22.79
HSDPA Subtest-1	23.66	23.73	23.60	22.94	22.70	22.78
HSDPA Subtest-2	22.58	22.66	22.61	21.82	21.62	21.65
HSDPA Subtest-3	22.09	22.20	22.11	21.30	21.14	21.20
HSDPA Subtest-4	22.07	22.21	22.09	21.30	21.11	21.21
HSUPA Subtest-1	20.86	20.92	20.85	20.65	20.41	20.52
HSUPA Subtest-2	19.69	19.78	19.68	19.55	19.35	19.45
HSUPA Subtest-3	20.71	20.70	20.55	20.26	20.06	20.22
HSUPA Subtest-4	19.78	19.76	19.66	19.55	19.23	19.33
HSUPA Subtest-5	20.90	20.88	20.77	20.75	20.43	20.61

2.2 Connection Diagram of Test System



3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

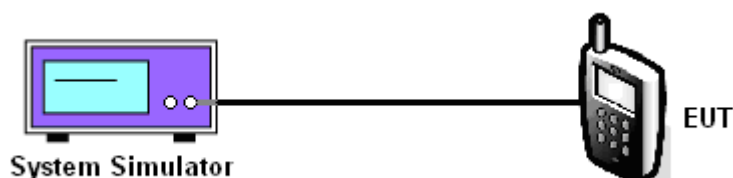
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Compare each band and different modulation combination to show the worst data rate.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Conducted Power (dBm)	32.63	32.48	32.44	26.27	26.12	26.15	23.75	23.79	23.63
Conducted Power (Watts)	1.83	1.77	1.75	0.42	0.41	0.41	0.24	0.24	0.23

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	28.96	29.29	29.62	24.90	24.73	25.00	22.98	22.71	22.80
Conducted Power (Watts)	0.79	0.85	0.92	0.31	0.30	0.32	0.20	0.19	0.19

Note: maximum burst average power for GSM, and maximum average power for WCDMA.

3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. The following guidelines are offered for performing a CCDF measurement.

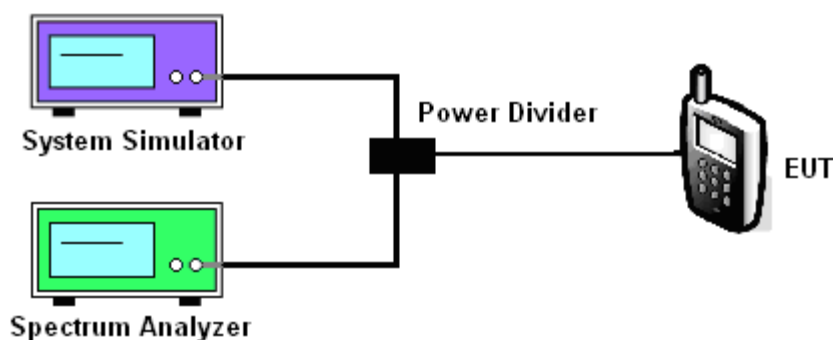
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The CCDF (Complementary Cumulative Distribution Function) of the middle channel for the highest RF powers were measured.

3.2.4 Test Setup



3.2.5 Test Result of Peak-to-Average Ratio

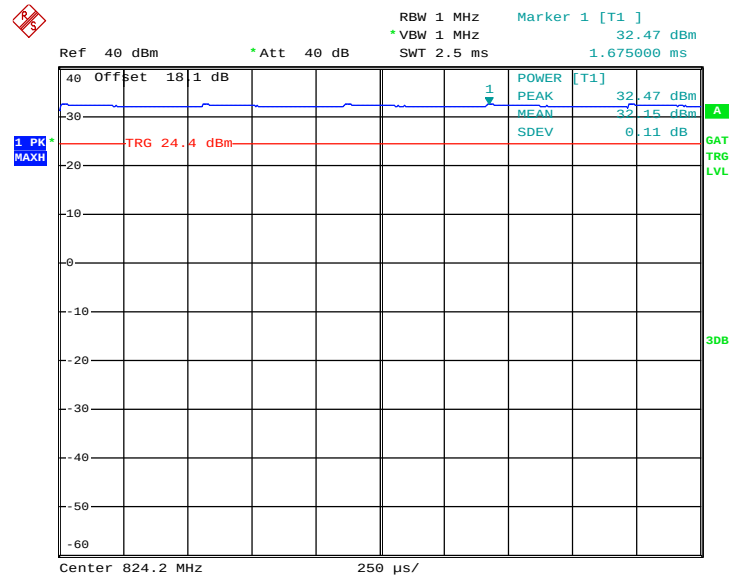
Cellular Band									
Modes	GSM850 (GSM)			GSM850 (EDGE 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6
Peak-to-Average Ratio (dB)	0.32	0.62	0.22	0.15	0.71	0.07	3.00	2.88	2.96

PCS Band									
Modes	GSM1900 (GSM)			GSM1900 (EDGE 8)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.15	0.14	0.15	0.12	0.13	0.10	3.44	3.28	3.12

3.2.6 Test Result (Plots) of Peak-to-Average Ratio

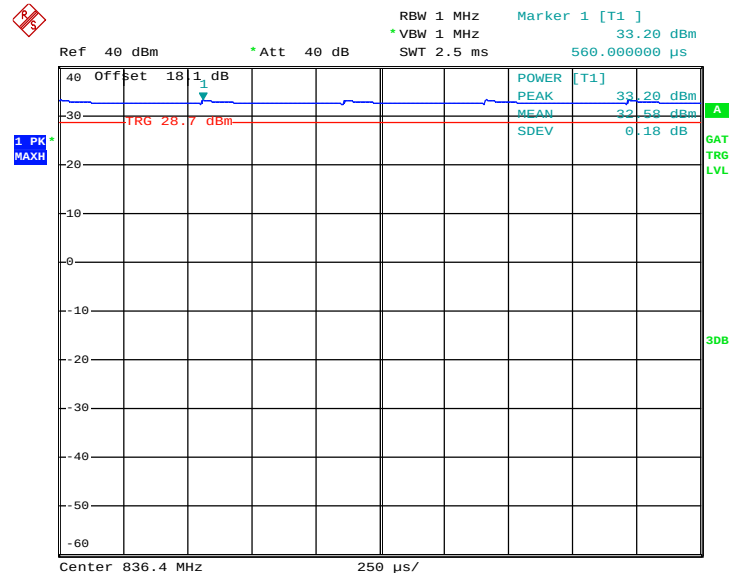
Band :	GSM 850	Test Mode :	GSM Link
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Peak-to-Average Ratio on Channel 128 (824.2 MHz)



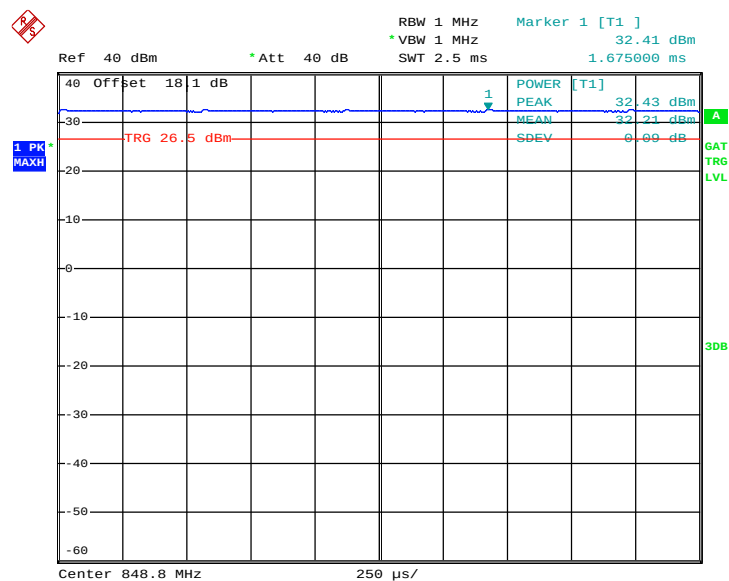
Date: 22.AUG.2012 23:35:30

Peak-to-Average Ratio on Channel 189 (836.4 MHz)



Date: 22.AUG.2012 23:34:04

Peak-to-Average Ratio on Channel 251 (848.8 MHz)

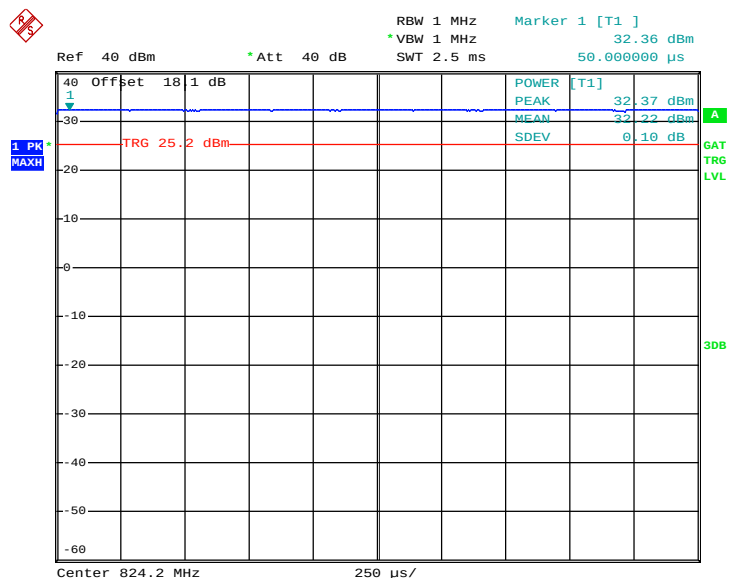


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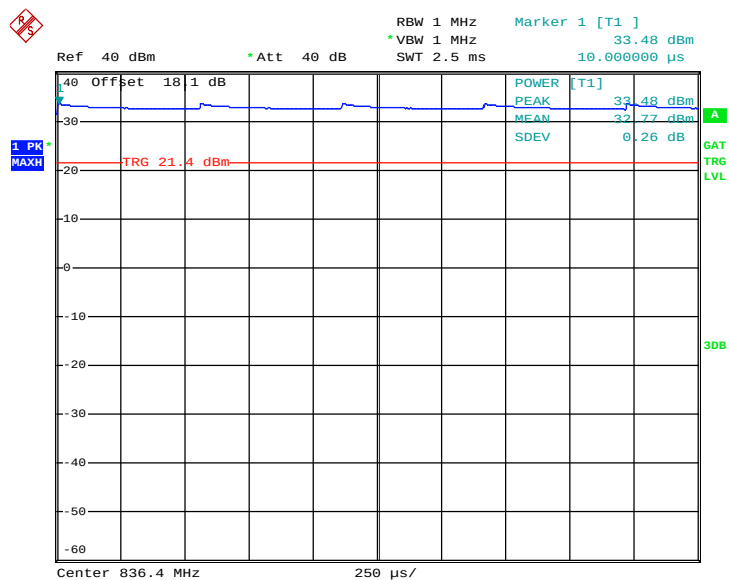
Band :	GSM 850	Test Mode :	EDGE 8 Link
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Peak-to-Average Ratio on Channel 128 (824.2 MHz)



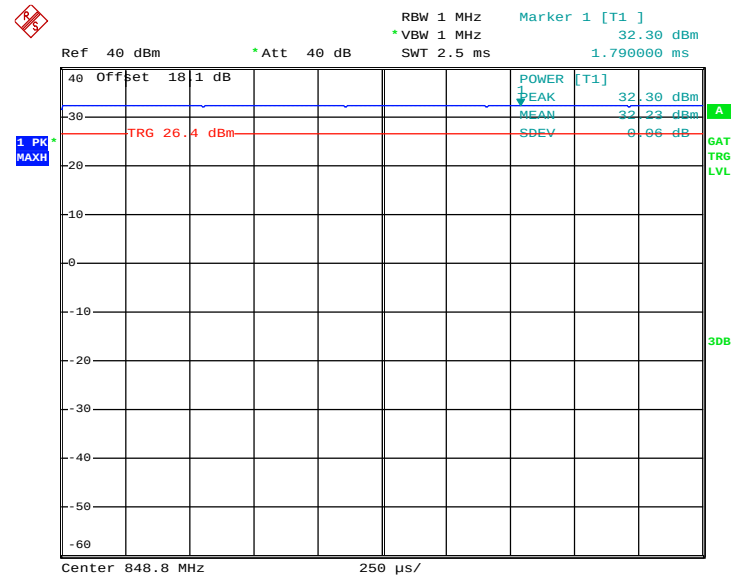
Date: 24.AUG.2012 02:06:41

Peak-to-Average Ratio on Channel 189 (836.4 MHz)



Date: 24.AUG.2012 02:05:49

Peak-to-Average Ratio on Channel 251 (848.8 MHz)

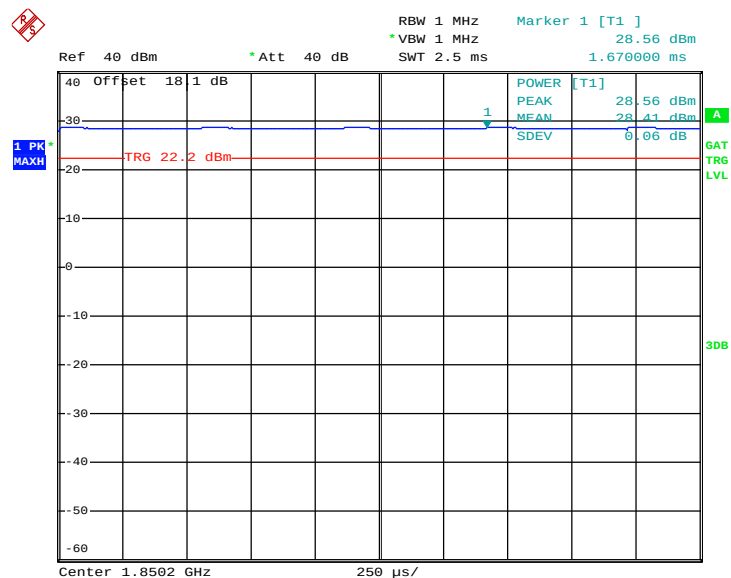


Date: 24.AUG.2012 02:03:45



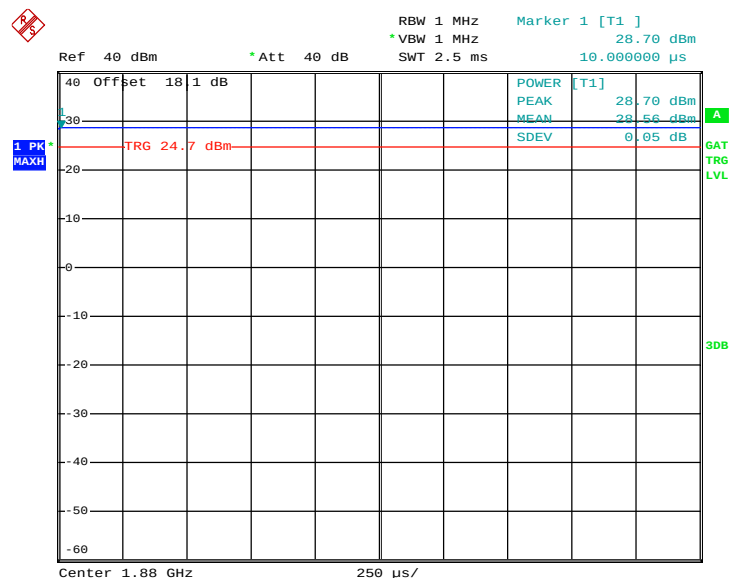
Band :	GSM 1900	Test Mode :	GSM Link
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



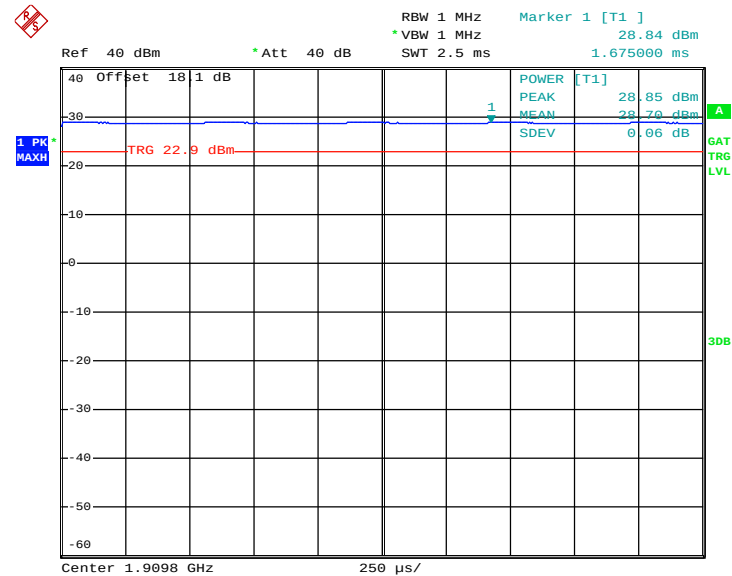
Date: 23.AUG.2012 05:42:42

Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 23.AUG.2012 05:41:54

Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

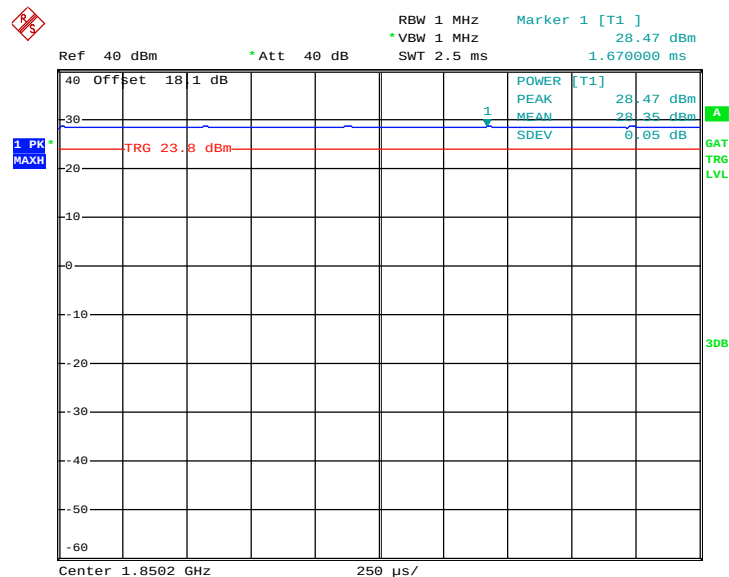


Date: 23.AUG.2012 05:40:41



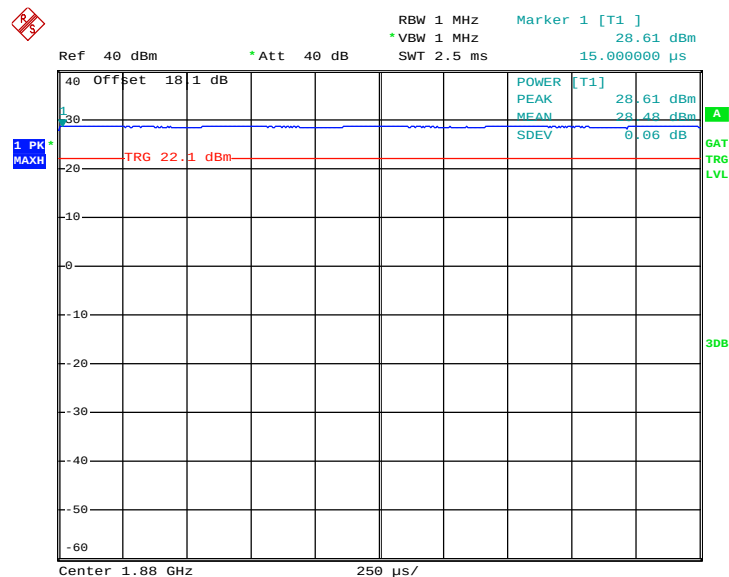
Band :	GSM 1900	Test Mode :	EDGE 8 Link
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



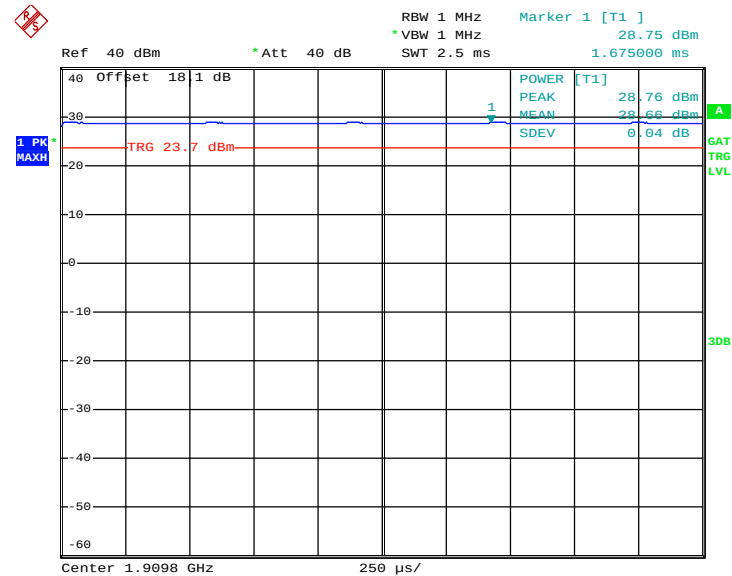
Date: 23.AUG.2012 06:15:23

Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 23.AUG.2012 06:14:16

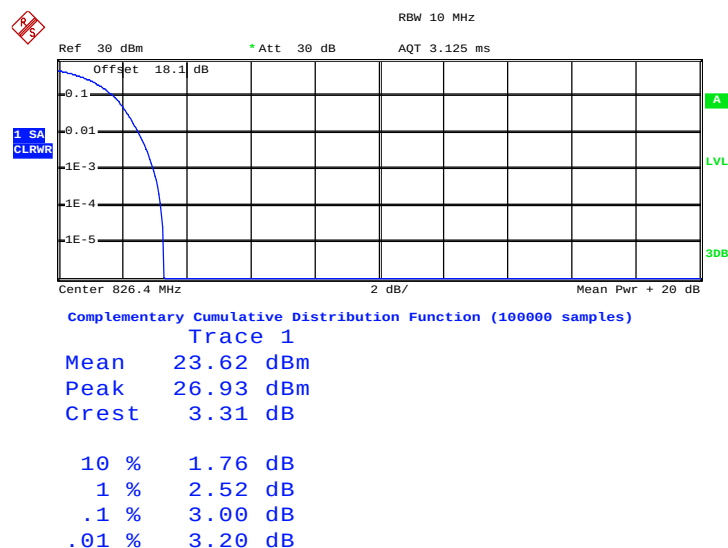
Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 23.AUG.2012 06:13:26

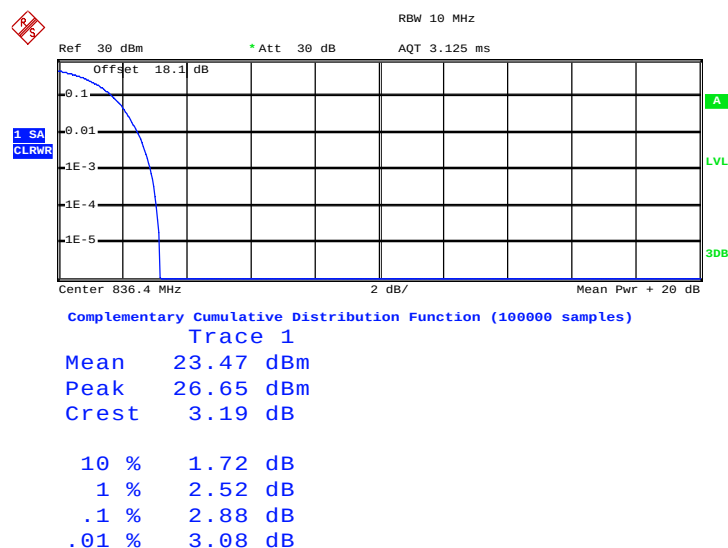
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
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Peak-to-Average Ratio on Channel 4132 (826.4 MHz)



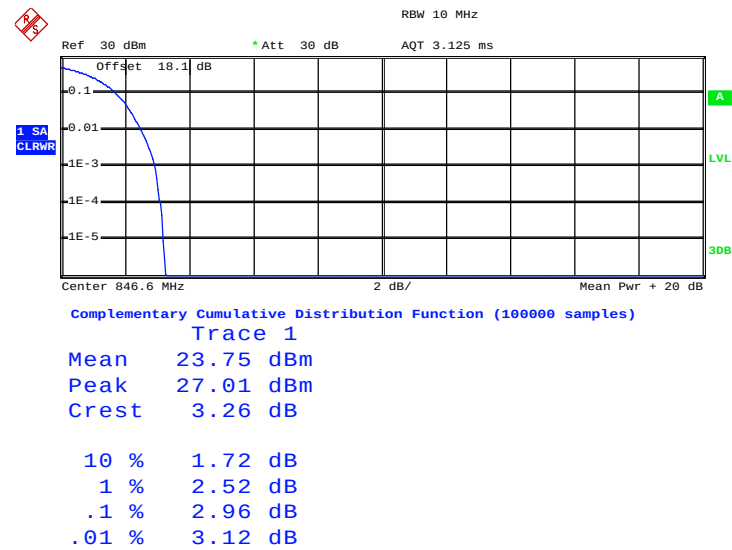
Date: 24.AUG.2012 06:10:15

Peak-to-Average Ratio on Channel 4182 (836.4 MHz)



Date: 24.AUG.2012 06:12:02

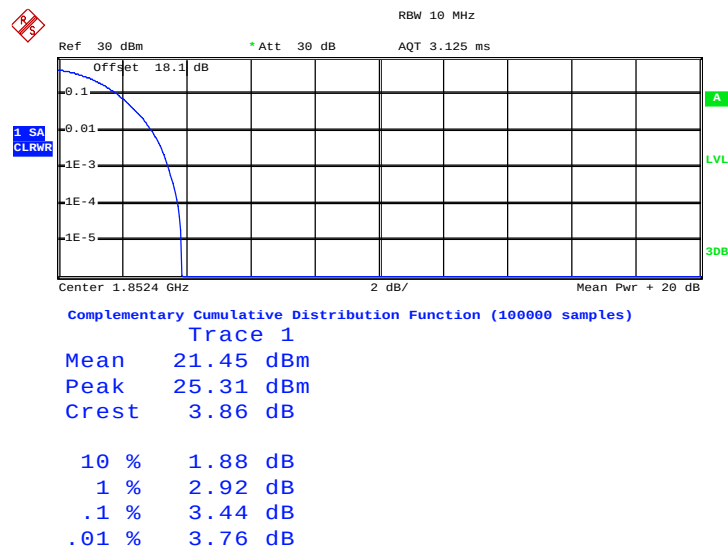
Peak-to-Average Ratio on Channel 4233 (846.6 MHz)



Date: 24.AUG.2012 06:18:18

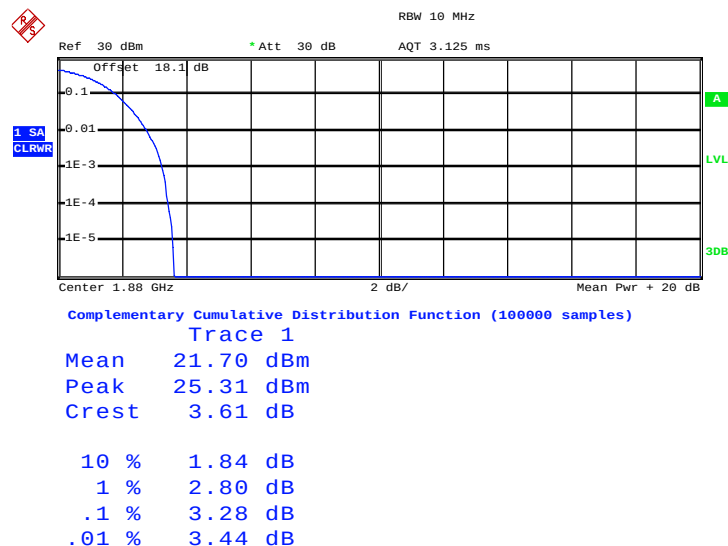
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
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Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



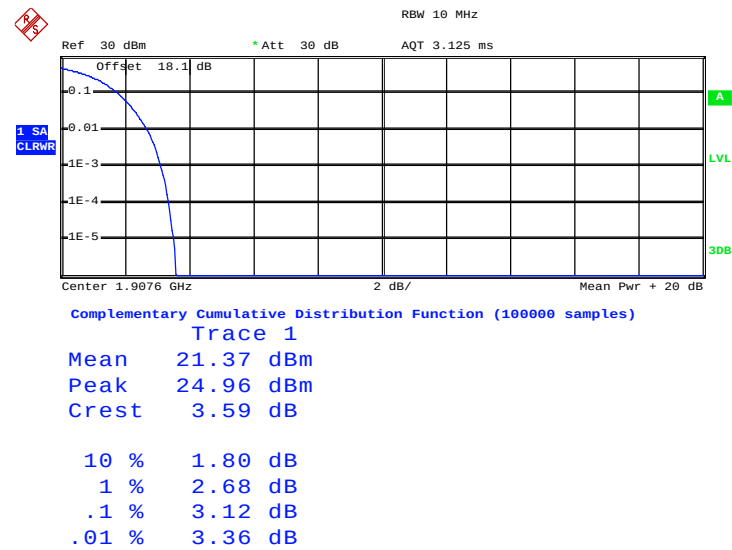
Date: 24.AUG.2012 04:11:51

Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)



Date: 24.AUG.2012 04:10:24

Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 24.AUG.2012 04:09:29

3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
2. The EUT was set at 1.2 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
5. Taking the record of maximum ERP/EIRP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

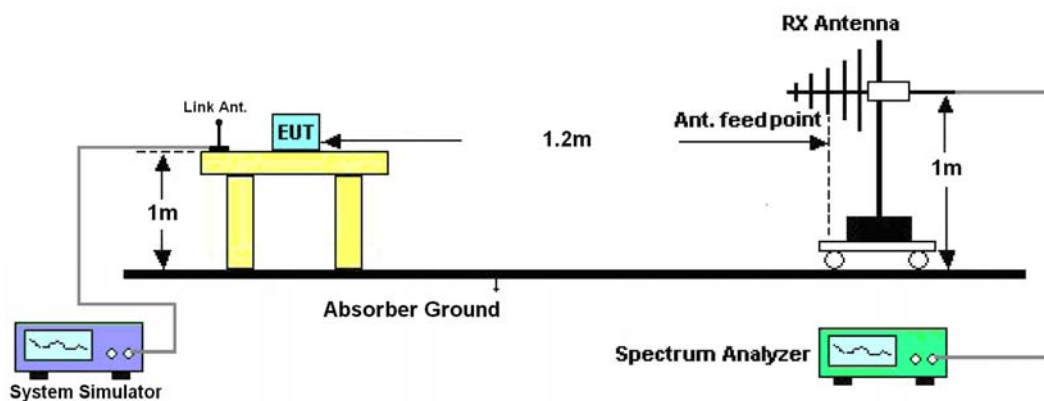
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

3.3.4 Test Setup



3.3.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-17.66	-48.12	0.00	-1.08	29.38	0.8669
836.40	-18.26	-48.28	0.00	-0.93	29.09	0.8102
848.80	-19.02	-48.35	0.00	-0.76	28.57	0.7200
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-19.58	-47.97	0.00	-1.08	27.31	0.5381
836.40	-19.11	-48.01	0.00	-0.93	27.97	0.6273
848.80	-18.91	-48.05	0.00	-0.76	28.38	0.6884

GSM850 (EDGE 8) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-23.85	-48.12	0.00	-1.08	23.19	0.2086
836.40	-24.42	-48.28	0.00	-0.93	22.93	0.1962
848.80	-25.70	-48.35	0.00	-0.76	21.89	0.1546
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-35.06	-47.97	0.00	-1.08	11.83	0.0152
836.40	-35.76	-48.01	0.00	-0.93	11.32	0.0135
848.80	-36.13	-48.05	0.00	-0.76	11.16	0.0131

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-27.04	-48.12	0.00	-1.08	20.00	0.0999
836.40	-26.65	-48.28	0.00	-0.93	20.70	0.1174
846.60	-26.73	-48.35	0.00	-0.76	20.86	0.1219
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-38.13	-47.97	0.00	-1.08	8.76	0.0075
836.40	-37.66	-48.01	0.00	-0.93	9.42	0.0088
846.60	-37.06	-48.05	0.00	-0.76	10.23	0.0105

3.3.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-21.71	-51.88	0.00	1.96	32.13	1.6331
1880.00	-22.56	-52.99	0.00	2.00	32.43	1.7498
1909.80	-23.51	-54.28	0.00	1.98	32.75	1.8836
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-21.83	-52.13	0.00	1.96	32.26	1.6827
1880.00	-22.67	-53.17	0.00	2.00	32.50	1.7783
1909.80	-23.56	-54.13	0.00	1.98	32.55	1.7989

GSM1900 (EDGE 8) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-25.10	-51.88	0.00	1.96	28.74	0.7482
1880.00	-26.13	-52.99	0.00	2.00	28.86	0.7691
1909.80	-27.07	-54.28	0.00	1.98	29.19	0.8299
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-25.34	-52.13	0.00	1.96	28.75	0.7499
1880.00	-26.33	-53.17	0.00	2.00	28.84	0.7656
1909.80	-27.25	-54.13	0.00	1.98	28.86	0.7691

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-27.74	-51.88	0.00	1.96	26.10	0.4074
1880.00	-28.62	-52.99	0.00	2.00	26.37	0.4335
1907.60	-29.72	-54.28	0.00	1.98	26.54	0.4508
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-27.95	-52.13	0.00	1.96	26.14	0.4111
1880.00	-28.79	-53.17	0.00	2.00	26.38	0.4345
1907.60	-29.78	-54.13	0.00	1.98	26.33	0.4295

3.4 Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

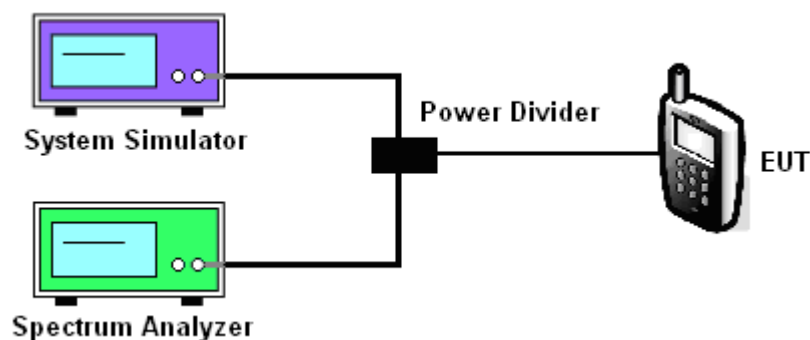
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

3.4.4 Test Setup



3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes	GSM850 (GSM)			GSM850 (EDGE 8)		
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8
99% OBW (KHz)	248.00	244.00	248.00	246.00	248.00	248.00
26dB BW (KHz)	306.00	312.00	308.00	314.00	314.00	312.00

PCS Band						
Modes	GSM1900 (GSM)			GSM1900 (EDGE 8)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (KHz)	250.00	244.00	248.00	248.00	246.00	248.00
26dB BW (KHz)	312.00	310.00	312.00	314.00	312.00	314.00

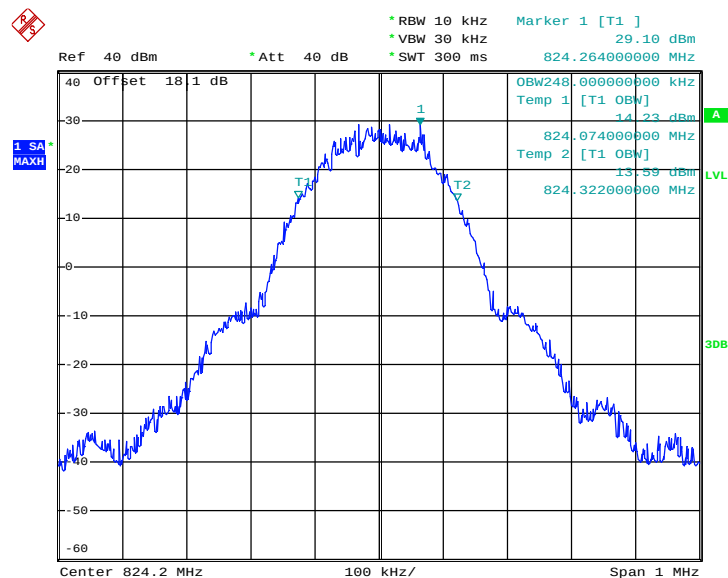
Cellular Band			
Modes	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132 (Low)	4182 (Mid)	4233 (High)
Frequency (MHz)	826.4	836.4	846.6
99% OBW (MHz)	4.18	4.18	4.14
26dB BW (MHz)	4.68	4.68	4.68

PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880.0	1907.6
99% OBW (MHz)	4.18	4.18	4.16
26dB BW (MHz)	4.68	4.68	4.68

3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

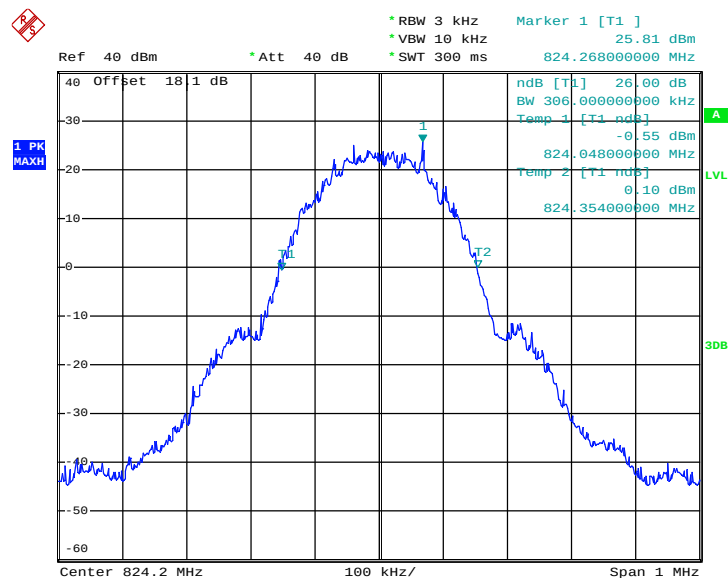
Band :	GSM 850	Test Mode :	GSM Link
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



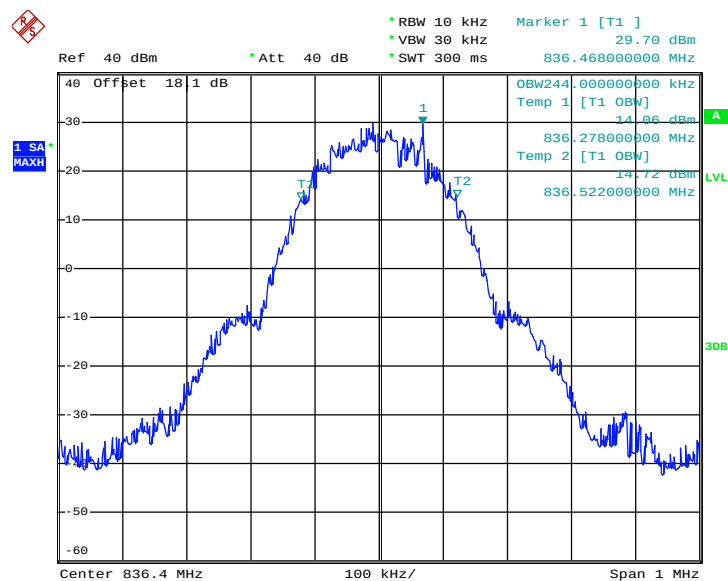
Date: 22.AUG.2012 06:09:37

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



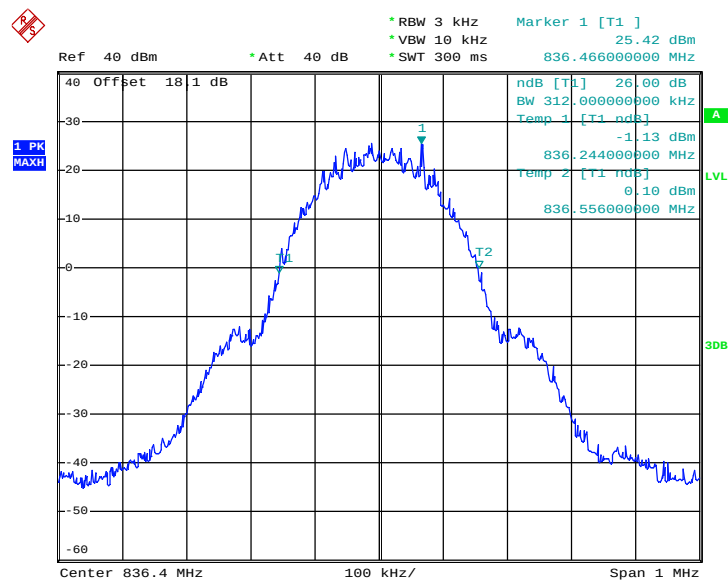
Date: 22.AUG.2012 06:16:36

99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



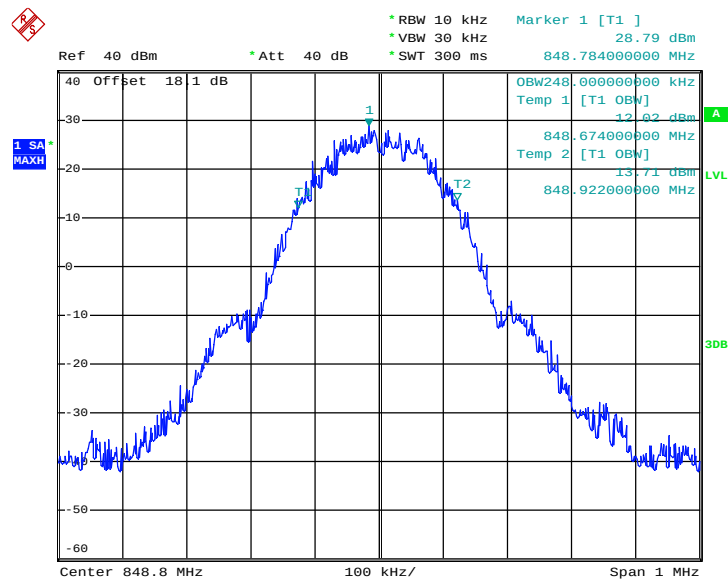
Date: 22.AUG.2012 06:11:07

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



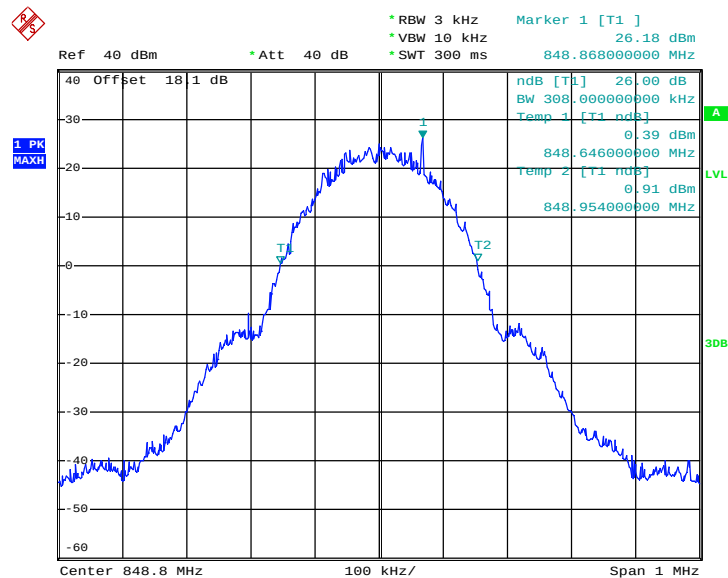
Date: 22.AUG.2012 06:15:28

99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 22.AUG.2012 06:12:15

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

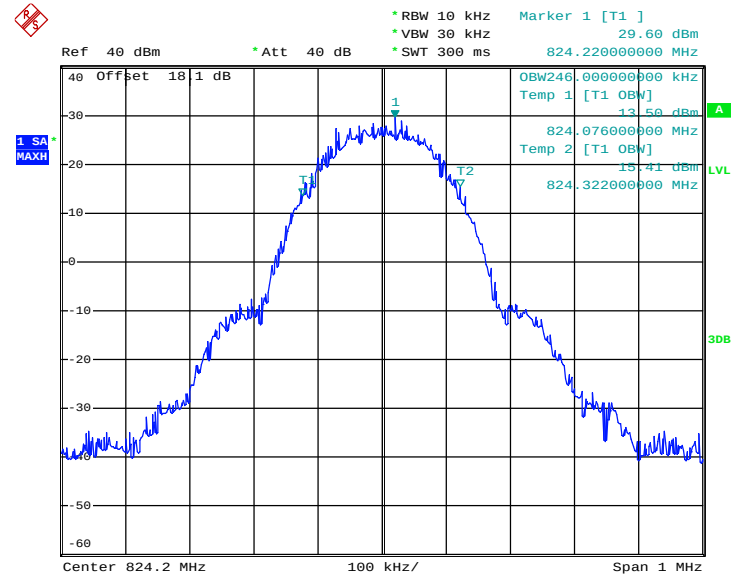


Date: 22.AUG.2012 06:14:17



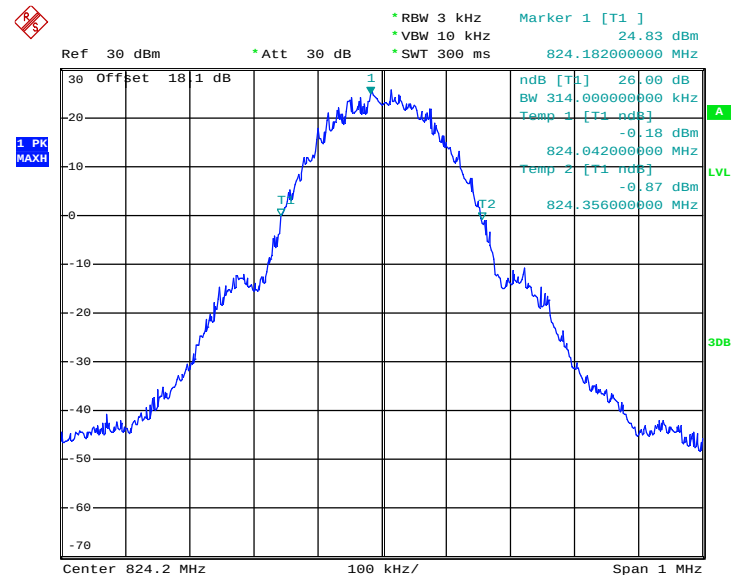
Band :	GSM 850	Test Mode :	EDGE 8 Link
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



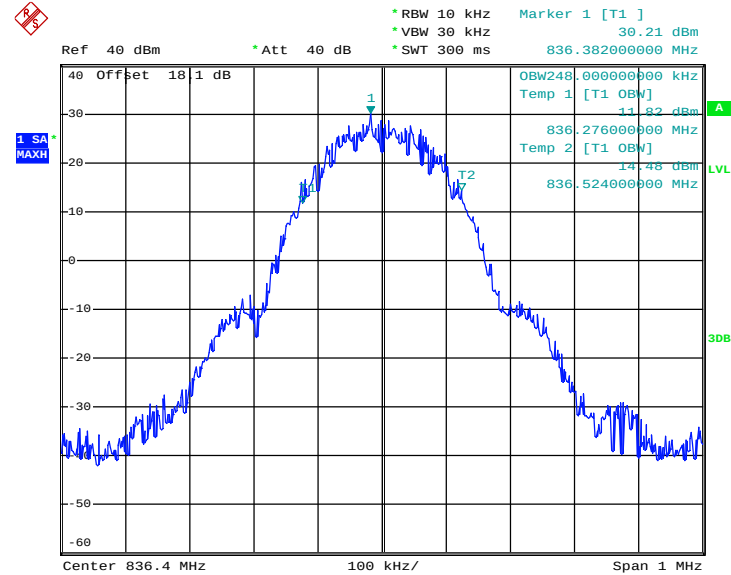
Date: 24.AUG.2012 01:50:51

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



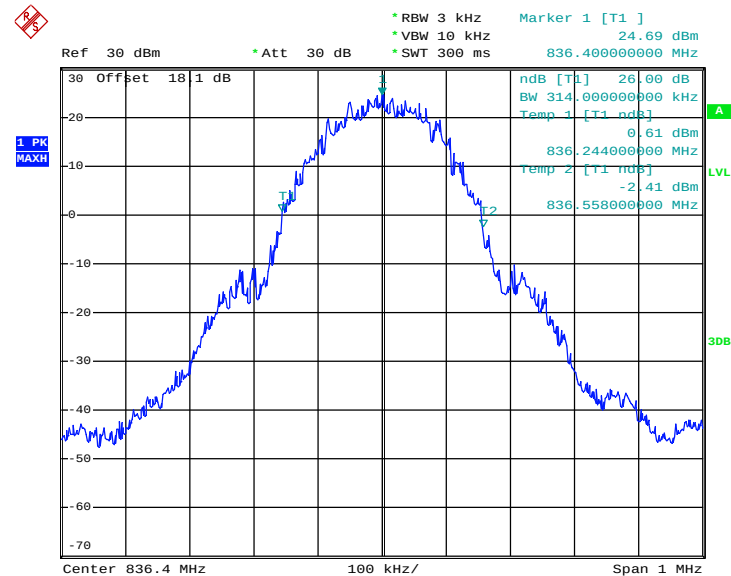
Date: 25.AUG.2012 04:52:33

99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)

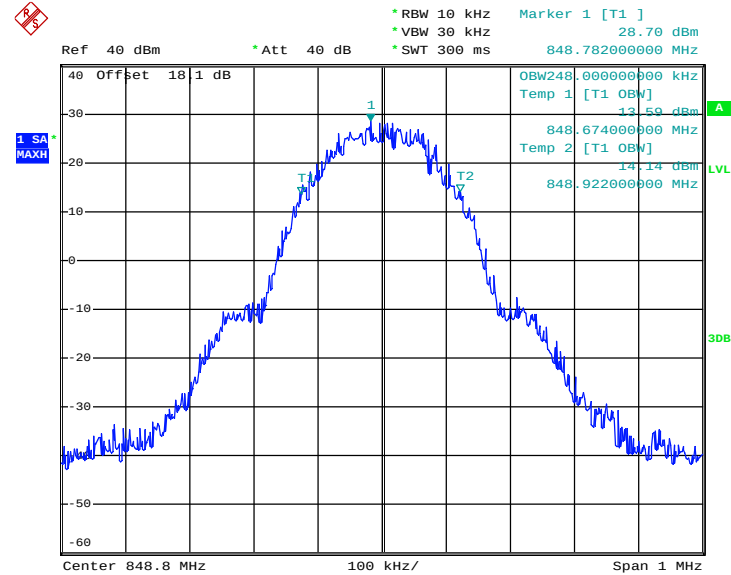


Date: 24.AUG.2012 01:52:24

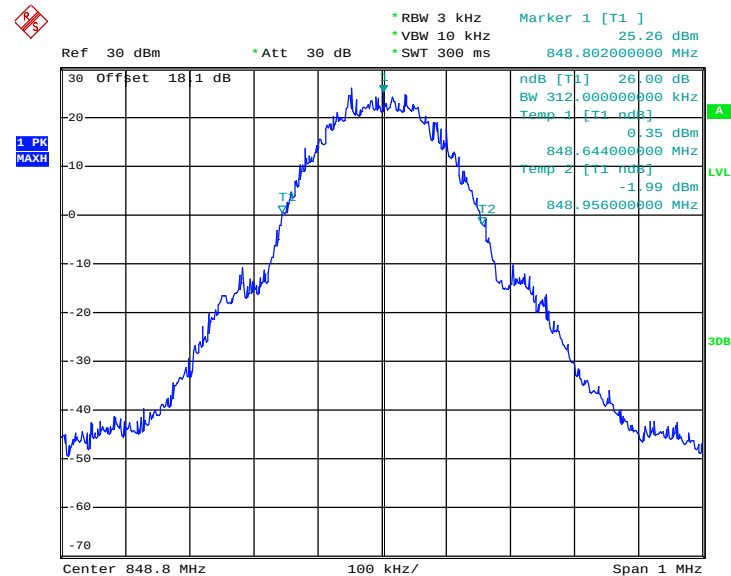
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 25.AUG.2012 04:51:18

99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)


Date: 24.AUG.2012 01:54:16

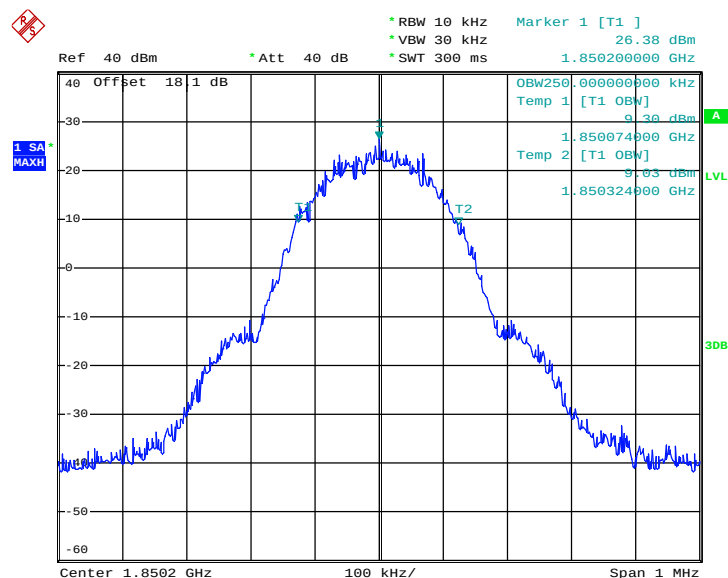
26dB Bandwidth Plot on Channel 251 (848.8 MHz)


Date: 25.AUG.2012 04:50:49



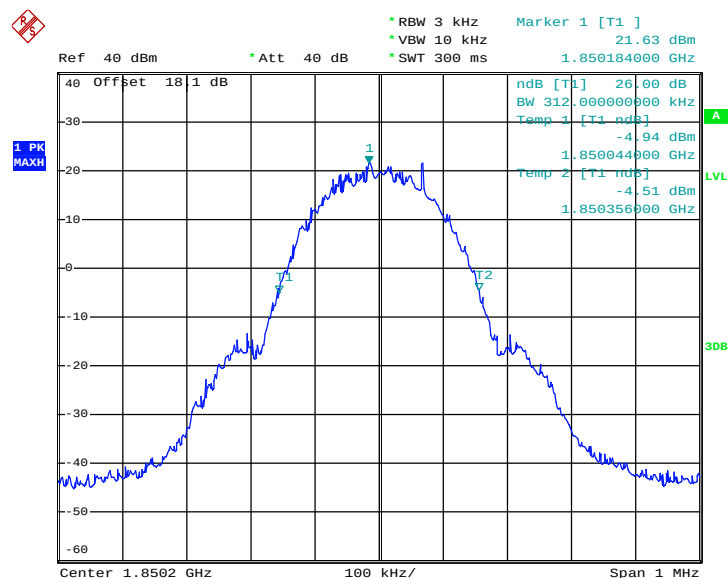
Band :	GSM 1900	Test Mode :	GSM Link
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99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



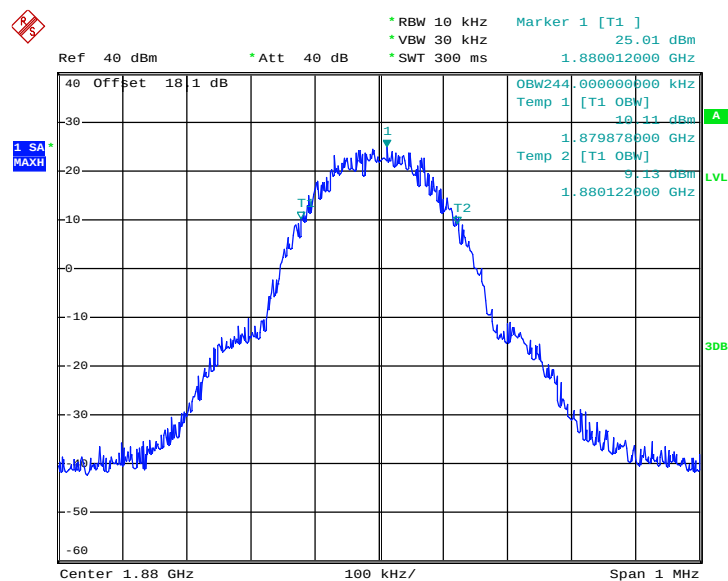
Date: 23.AUG.2012 04:18:48

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



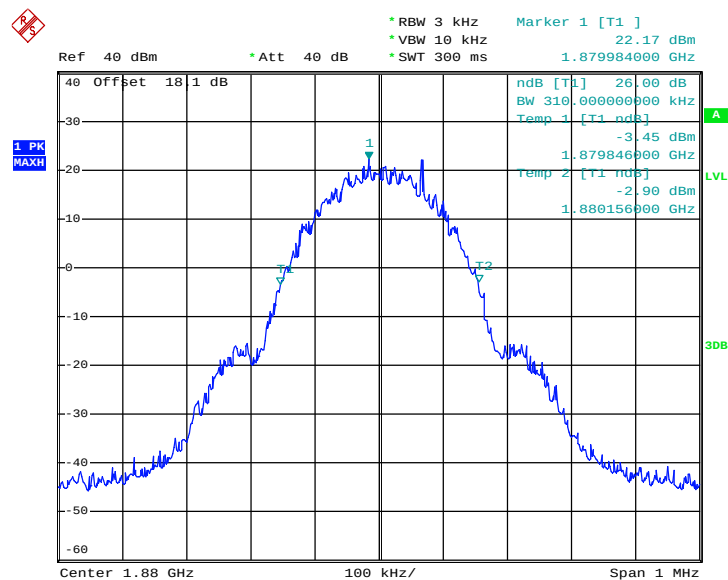
Date: 23.AUG.2012 04:27:05

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



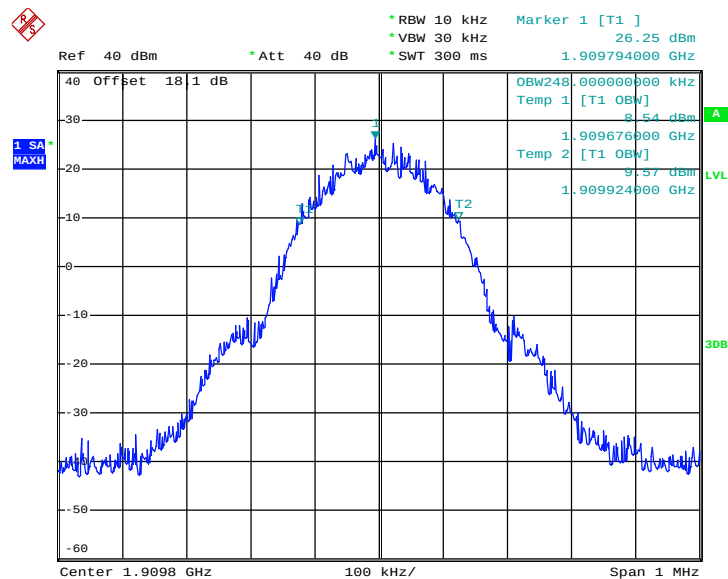
Date: 23.AUG.2012 04:20:18

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



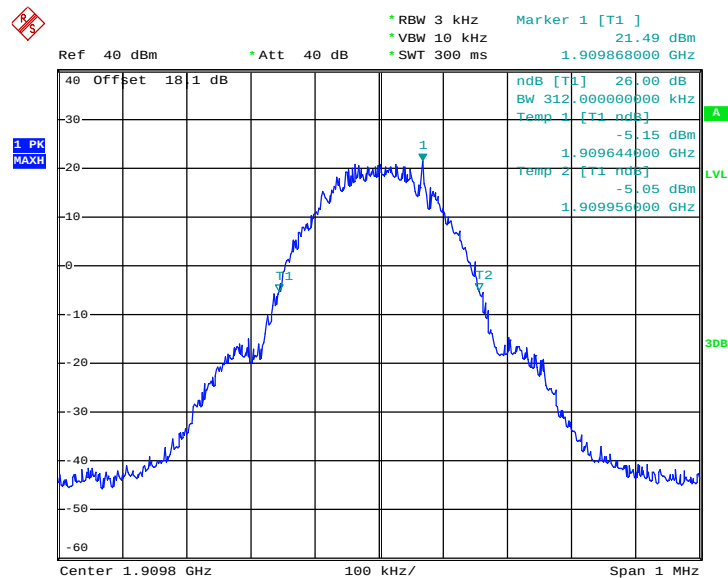
Date: 23.AUG.2012 04:24:28

99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 23.AUG.2012 04:21:19

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

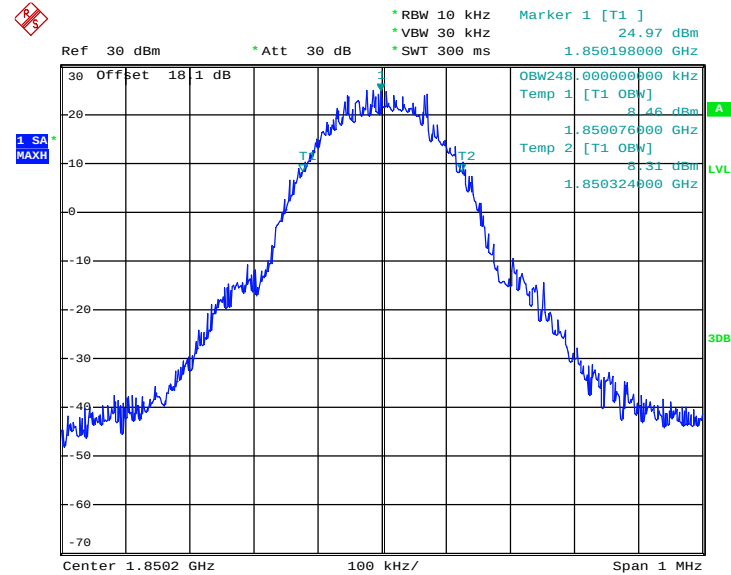


Date: 23.AUG.2012 04:23:15



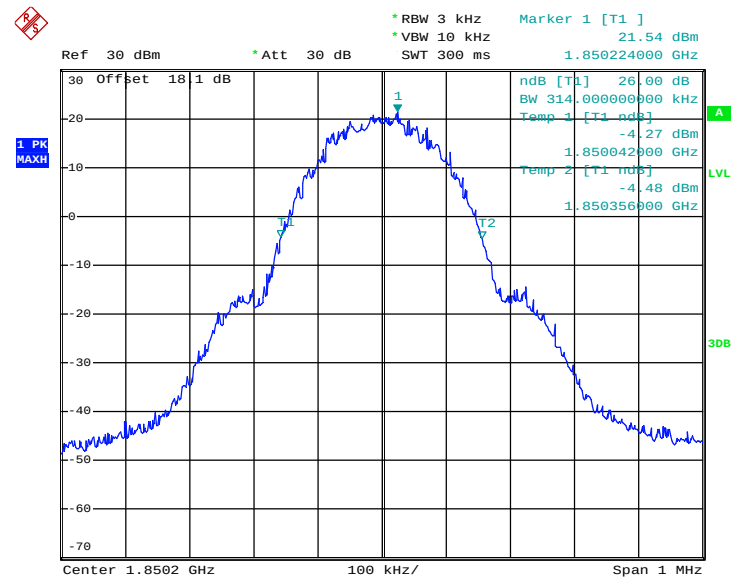
Band :	GSM 1900	Test Mode :	EDGE 8 Link
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99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



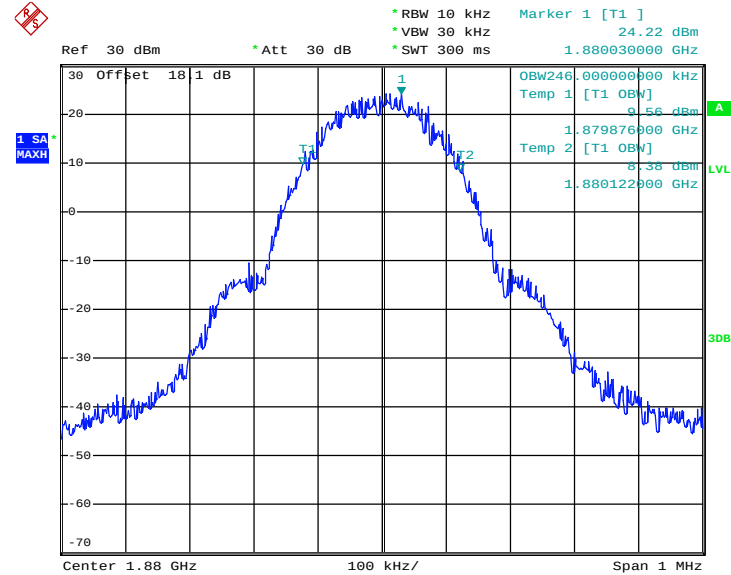
Date: 23.AUG.2012 06:05:42

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



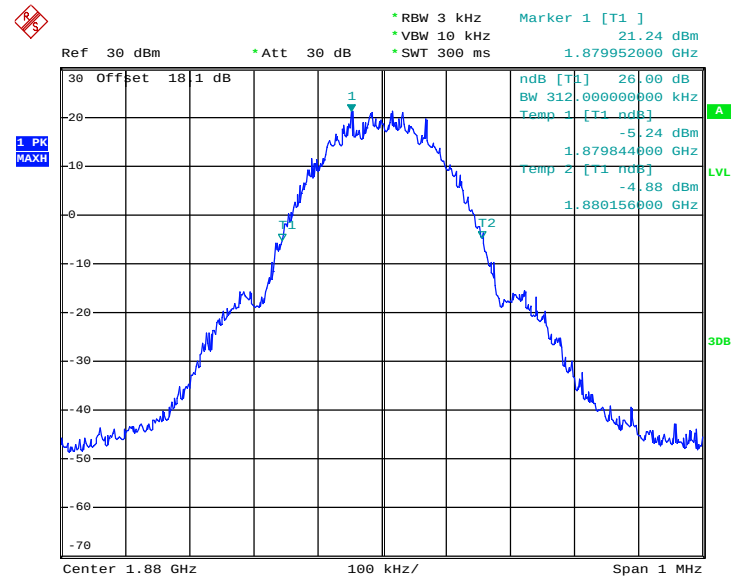
Date: 23.AUG.2012 05:59:10

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



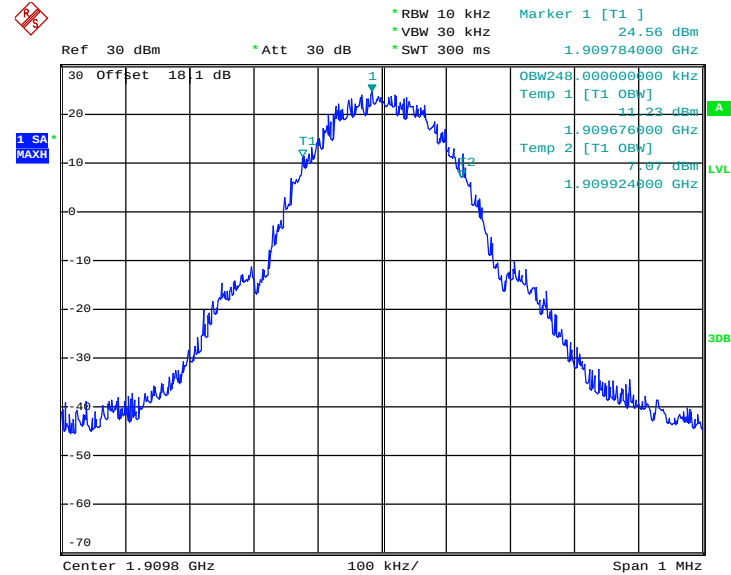
Date: 23.AUG.2012 06:04:17

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



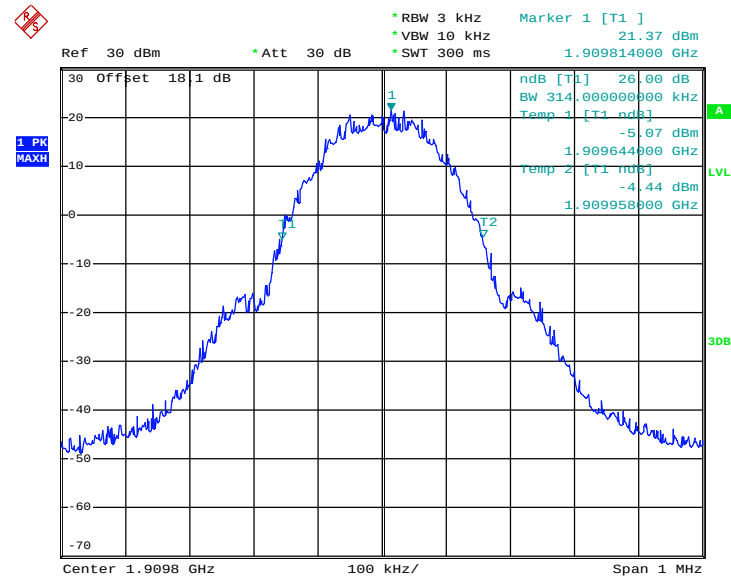
Date: 23.AUG.2012 06:00:15

99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 23.AUG.2012 06:03:15

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

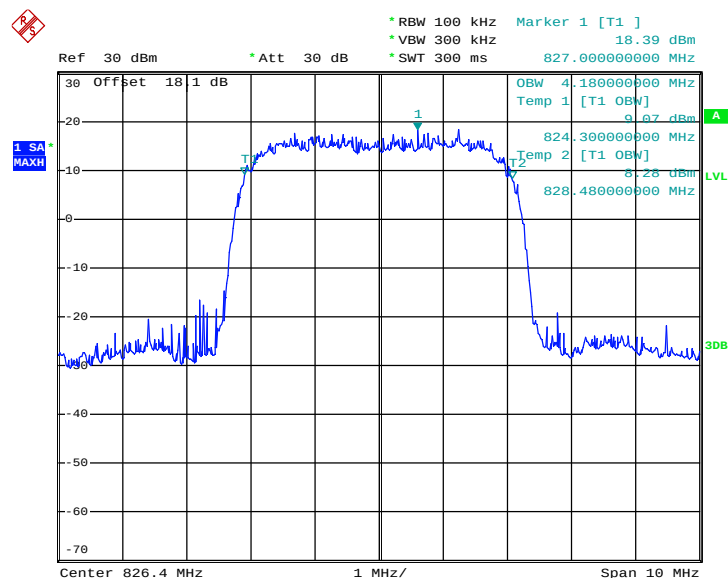


Date: 23.AUG.2012 06:01:17



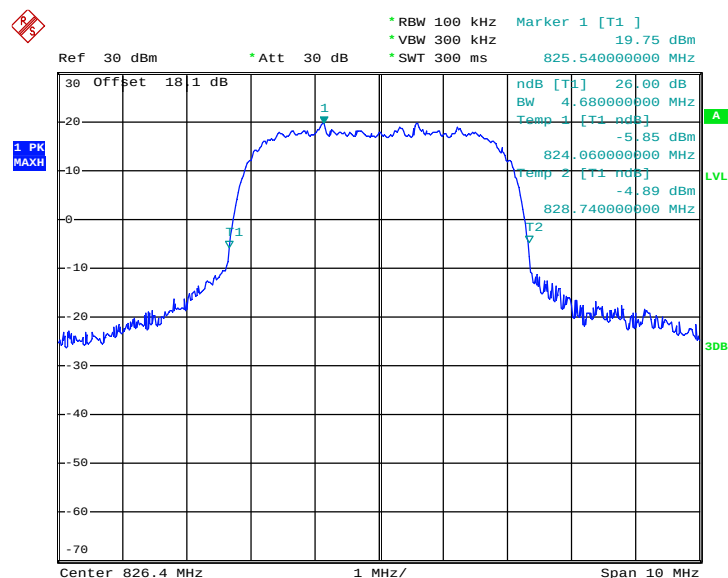
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
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99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



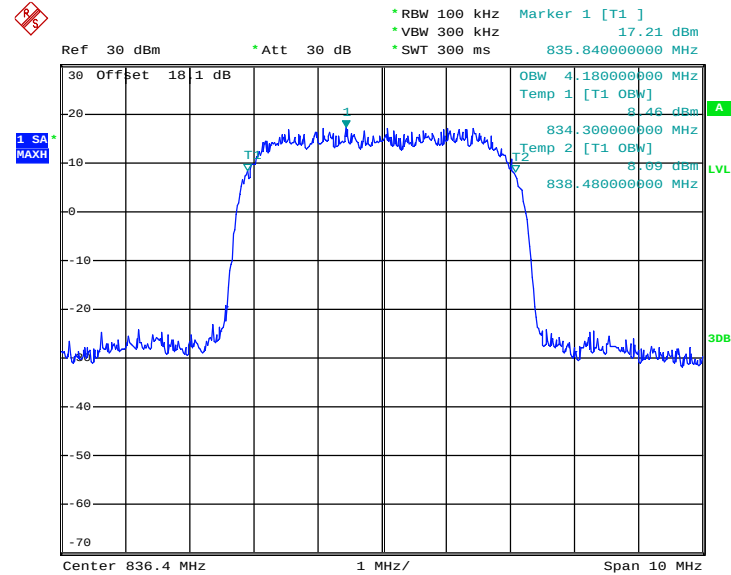
Date: 24.AUG.2012 06:06:20

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



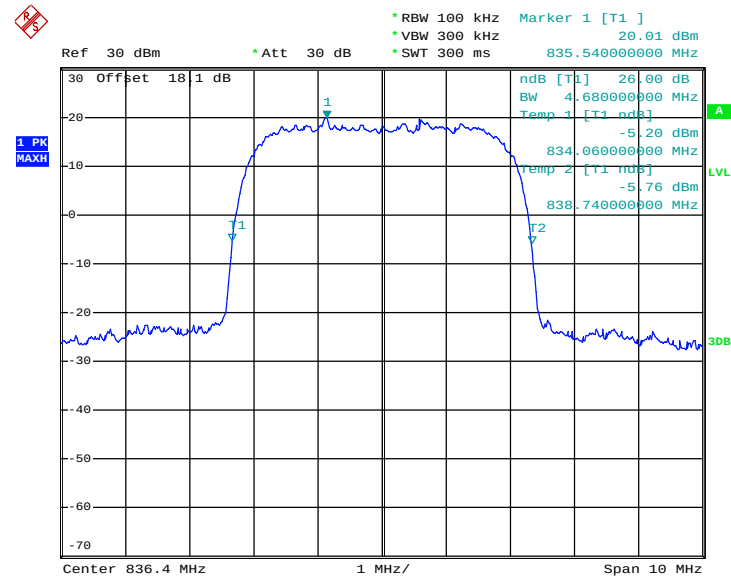
Date: 24.AUG.2012 06:04:48

99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



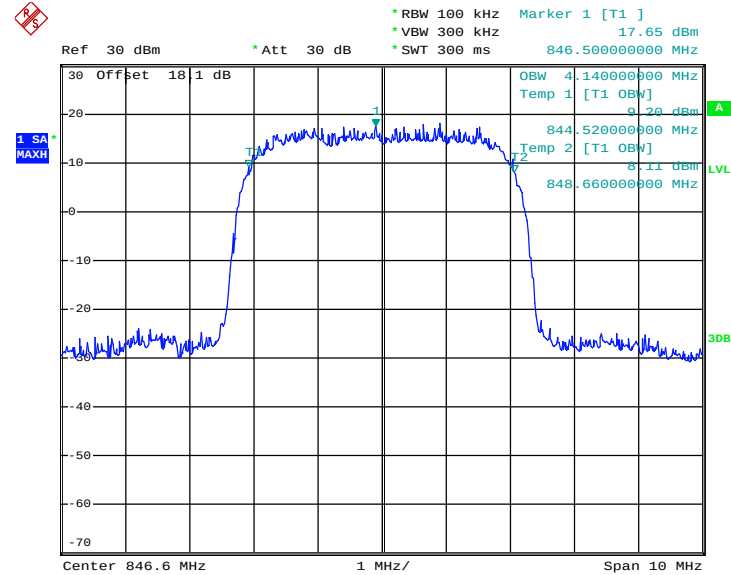
Date: 24.AUG.2012 06:14:37

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



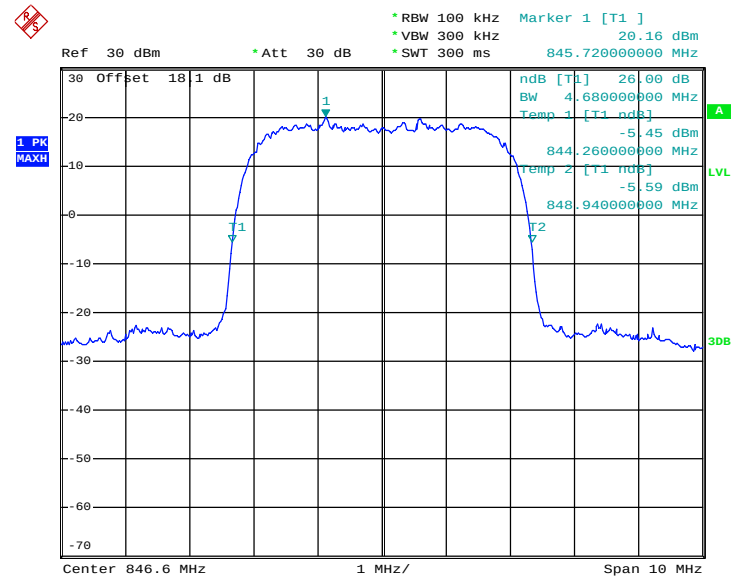
Date: 24.AUG.2012 06:13:33

99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 24.AUG.2012 06:16:01

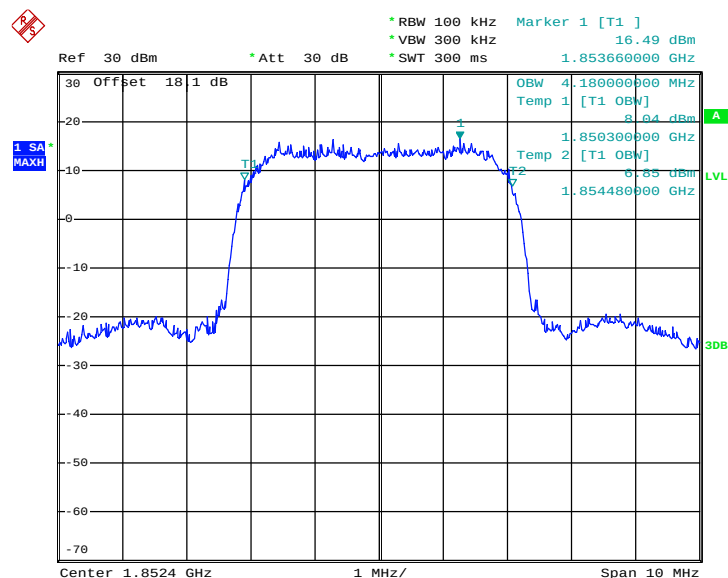
26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 24.AUG.2012 06:17:41

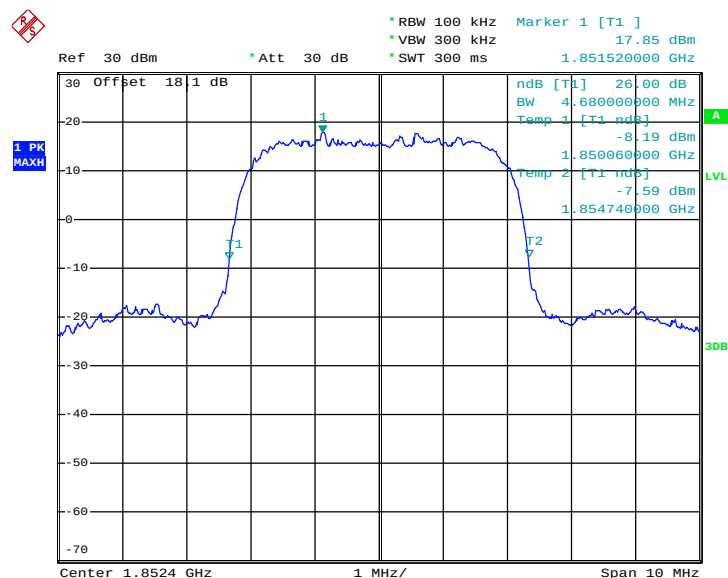
Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
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99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



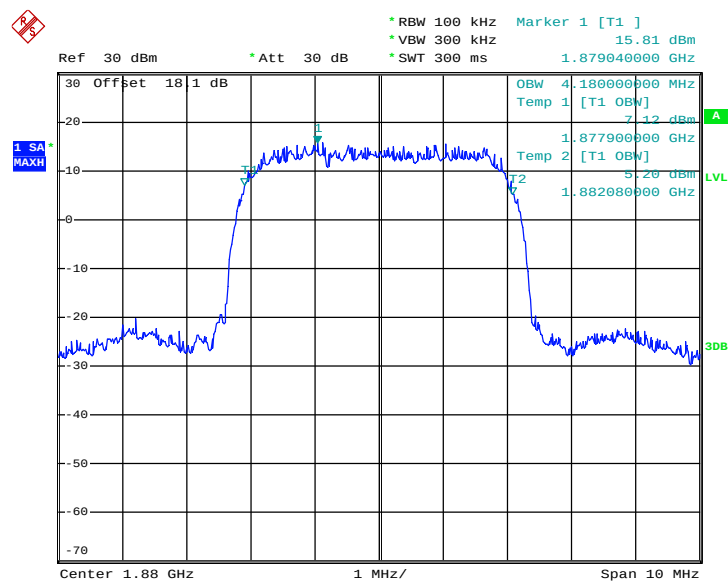
Date: 24.AUG.2012 03:19:50

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



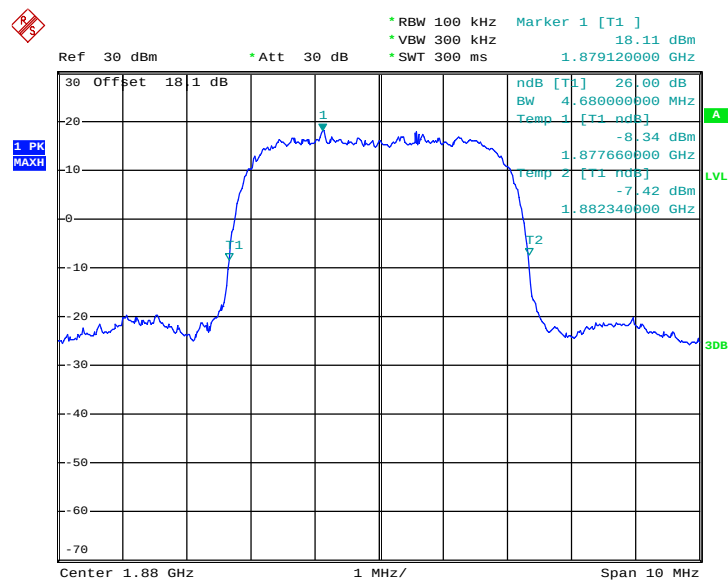
Date: 24.AUG.2012 03:18:21

99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



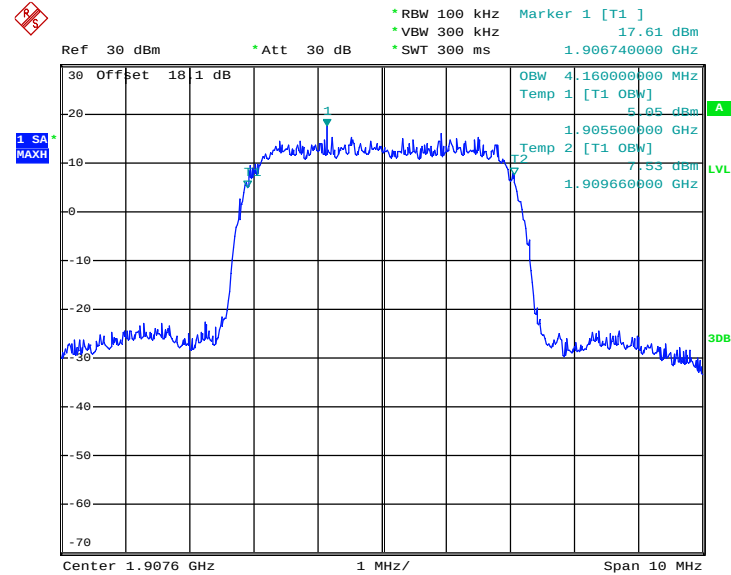
Date: 24.AUG.2012 03:16:15

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



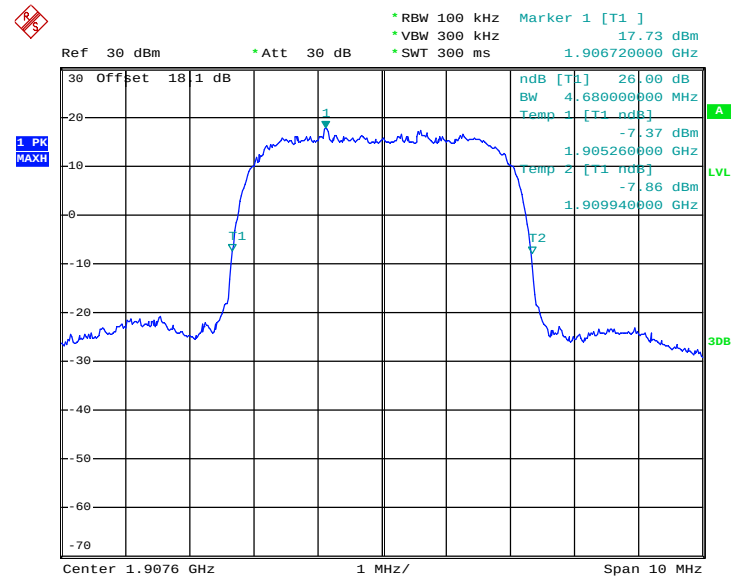
Date: 24.AUG.2012 03:16:49

99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 24.AUG.2012 03:14:48

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 24.AUG.2012 03:13:53

3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

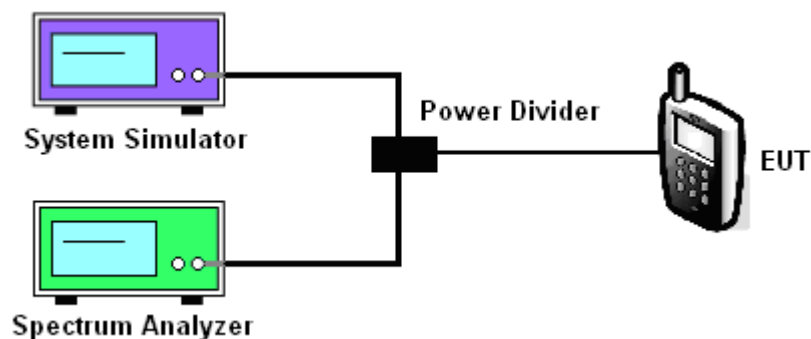
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

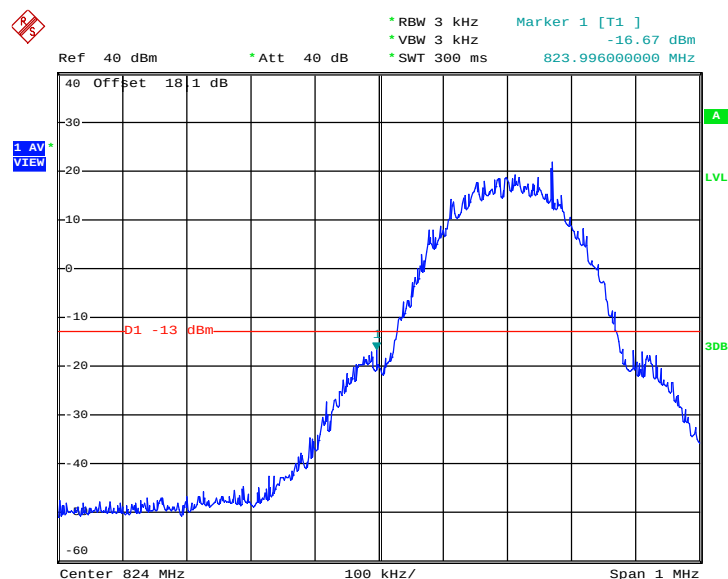
3.5.4 Test Setup



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-16.50dBm	Measurement Value :	-16.67dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)

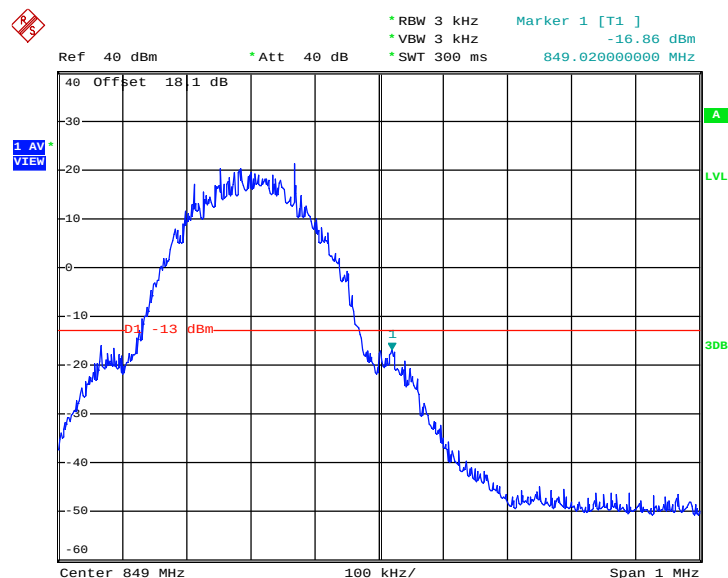


Date: 22.AUG.2012 22:20:25

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
 2. Band Edge= Measurement Value + Correction Factor(dB)
- For example, $-16.67\text{dBm} + 0.17\text{dB} = -16.50\text{dBm}$

Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-16.69dBm	Measurement Value :	-16.86dBm

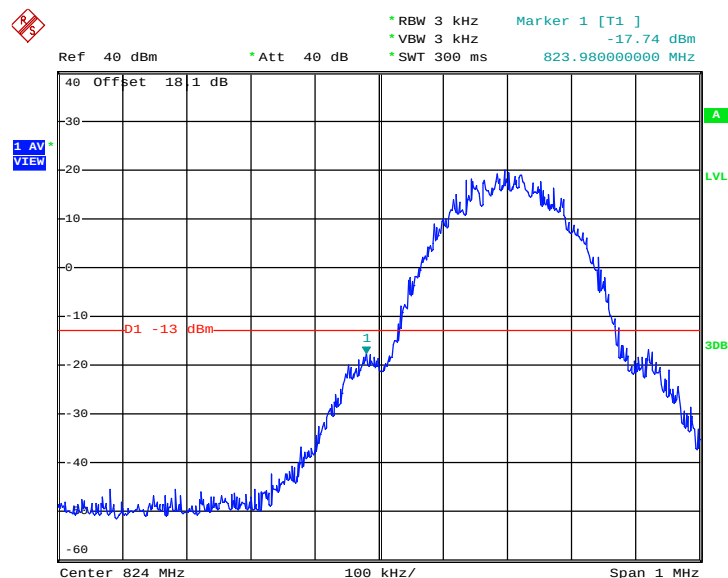
Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 22.AUG.2012 22:23:00

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	GSM850	Test Mode :	EDGE 8 Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-17.54dBm	Measurement Value :	-17.74dBm

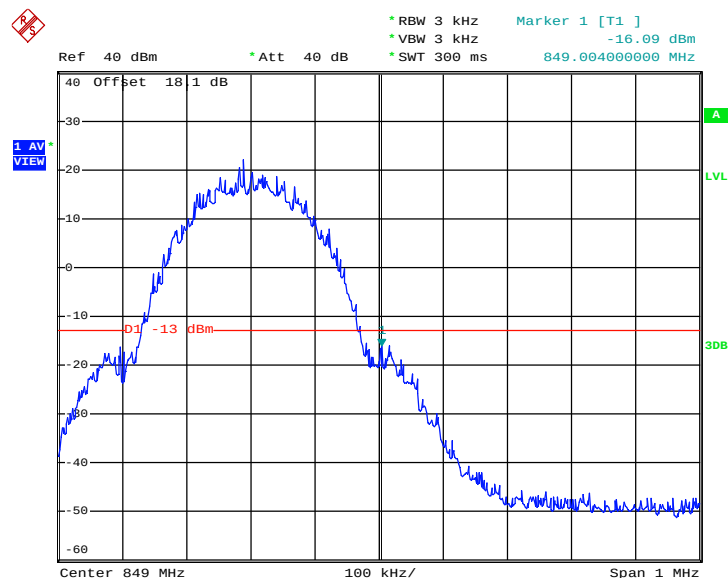
Lower Band Edge Plot on Channel 128 (824.2 MHz)


Date: 24.AUG.2012 01:59:32

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	GSM850	Test Mode :	EDGE 8 Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-15.89dBm	Measurement Value :	-16.09dBm

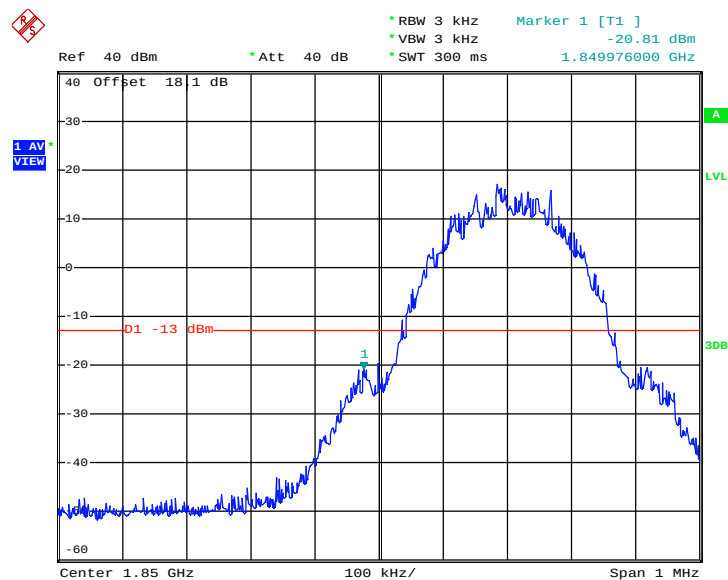
Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 24.AUG.2012 02:01:05

1. Correction Factor(dB)= $10\log(1\% \text{ Emission BW/RBW})$
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-20.64dBm	Measurement Value :	-20.81dBm

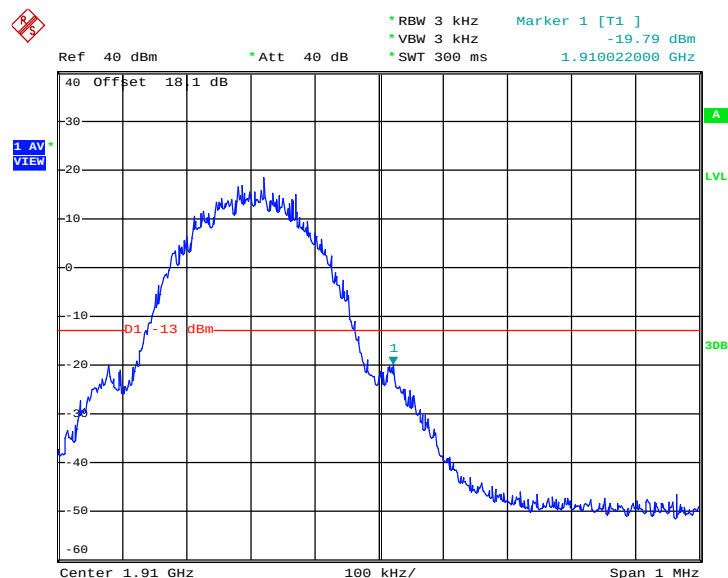
Lower Band Edge Plot on Channel 512 (1850.2 MHz)


Date: 23.AUG.2012 05:34:15

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-19.62dBm	Measurement Value :	-19.79dBm

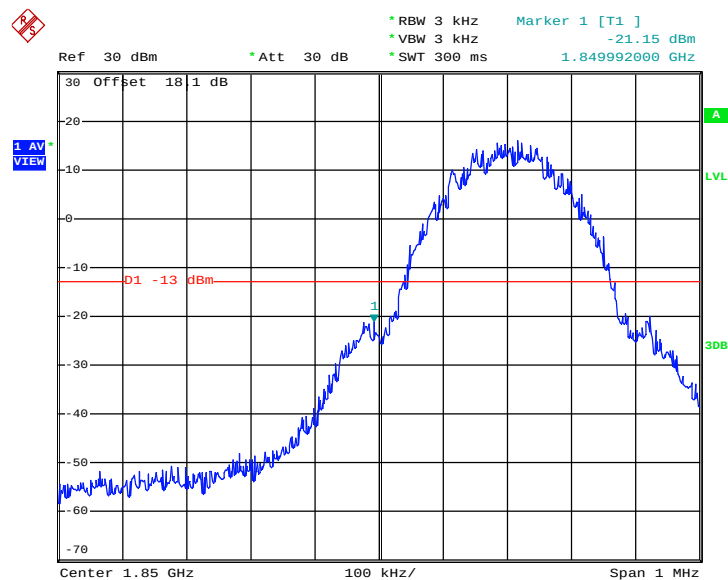
Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 23.AUG.2012 05:36:00

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

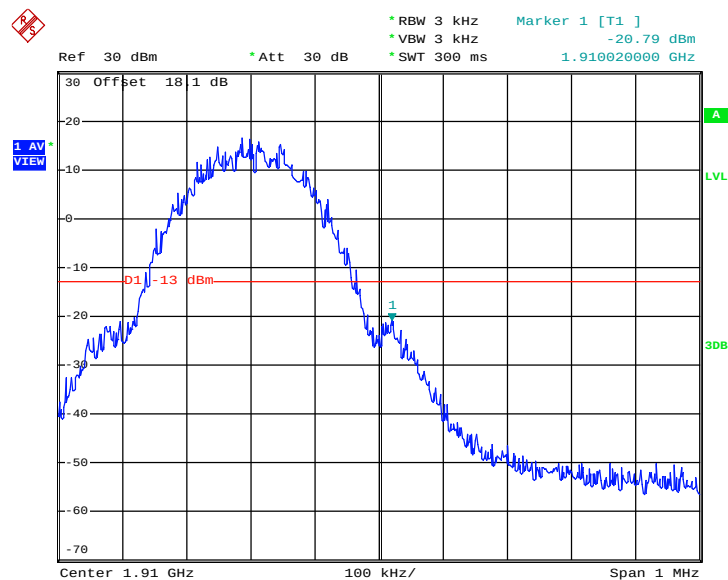
Band :	GSM1900	Test Mode :	EDGE 8 Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-20.95dBm	Measurement Value :	-21.15dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)


Date: 23.AUG.2012 06:07:41

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

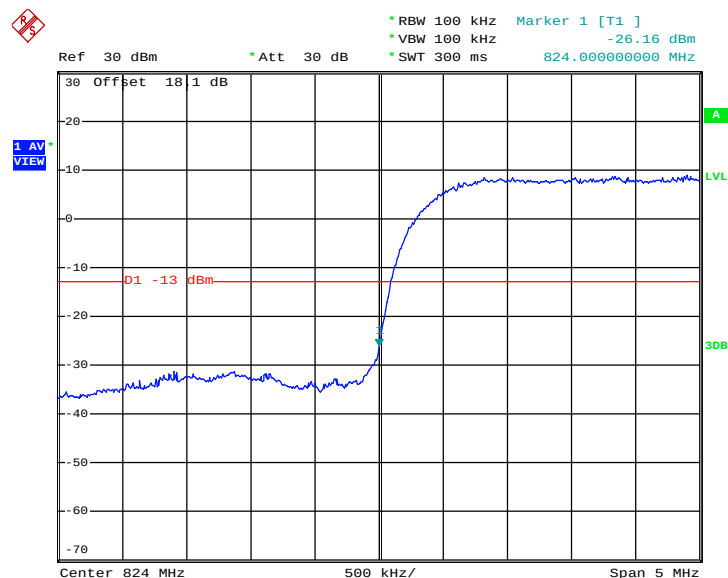
Band :	GSM1900	Test Mode :	EDGE 8 Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-20.59dBm	Measurement Value :	-20.79dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)


Date: 23.AUG.2012 06:08:53

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

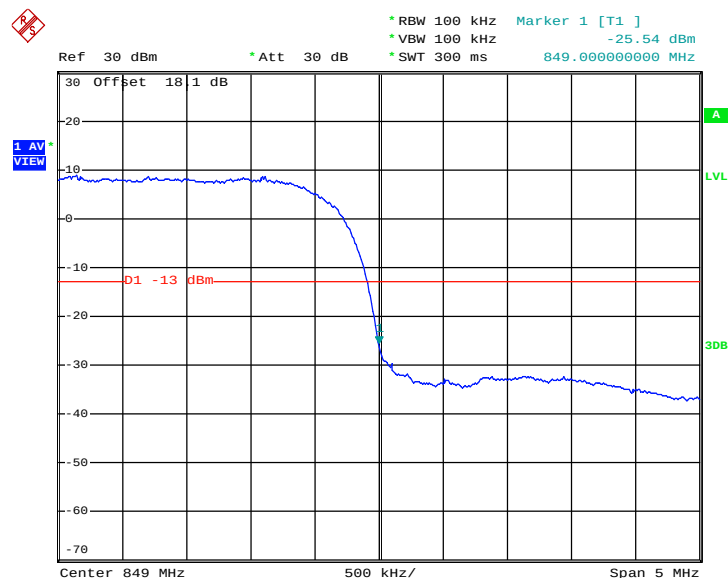
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-29.46dBm	Measurement Value :	-26.16dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)


Date: 24.AUG.2012 06:33:31

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-28.84dBm	Measurement Value :	-25.54dBm

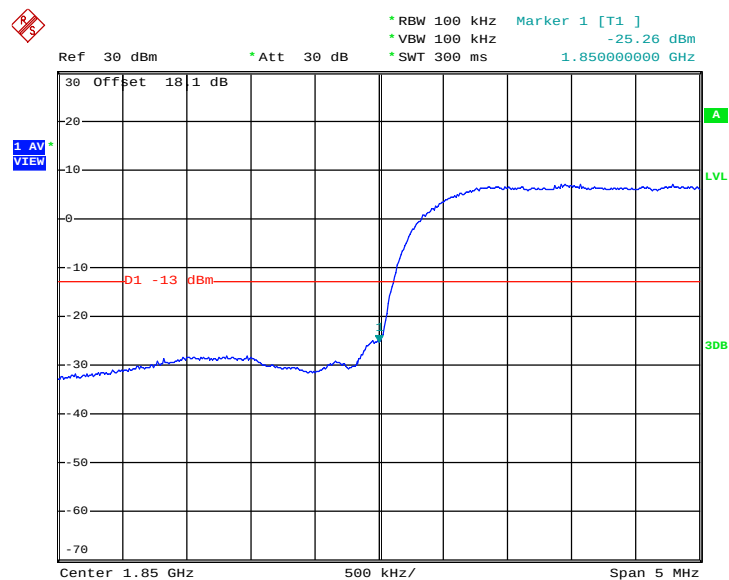
Higher Band Edge Plot on Channel 4233 (846.6 MHz)


Date: 24.AUG.2012 06:32:38

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-28.56dBm	Measurement Value :	-25.26dBm

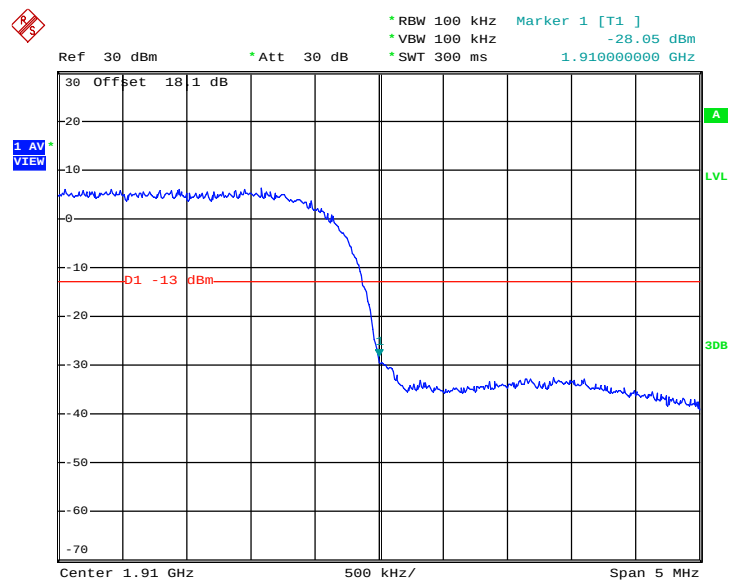
Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 24.AUG.2012 06:30:30

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31.35dBm	Measurement Value :	-28.05dBm

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)


Date: 24.AUG.2012 06:28:57

1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
2. Band Edge= Measurement Value + Correction Factor(dB)

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

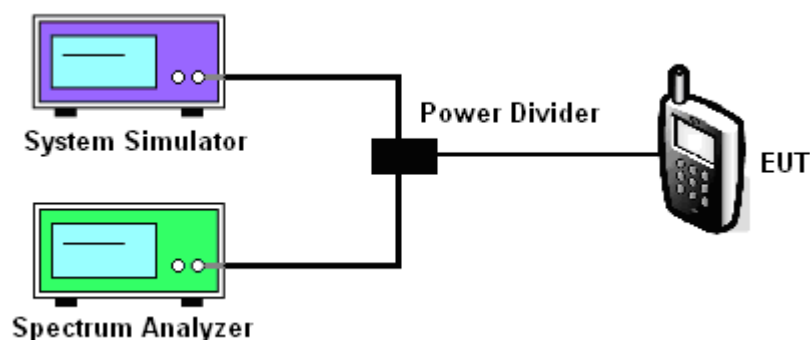
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

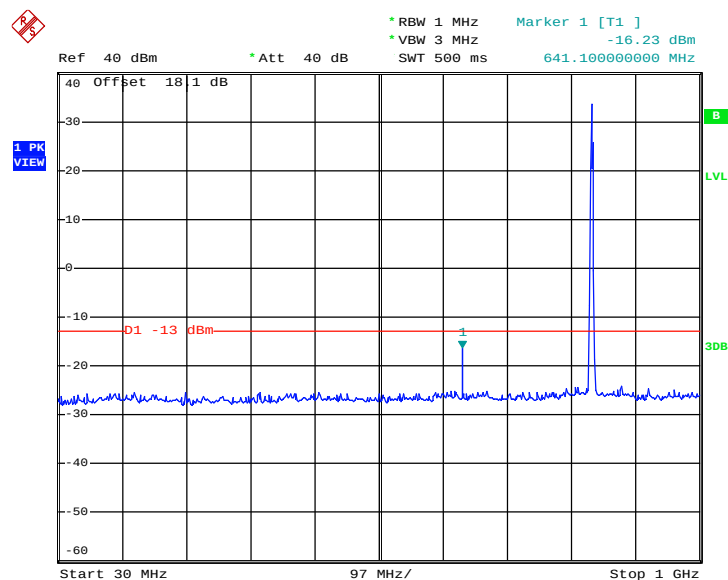
1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

3.6.4 Test Setup

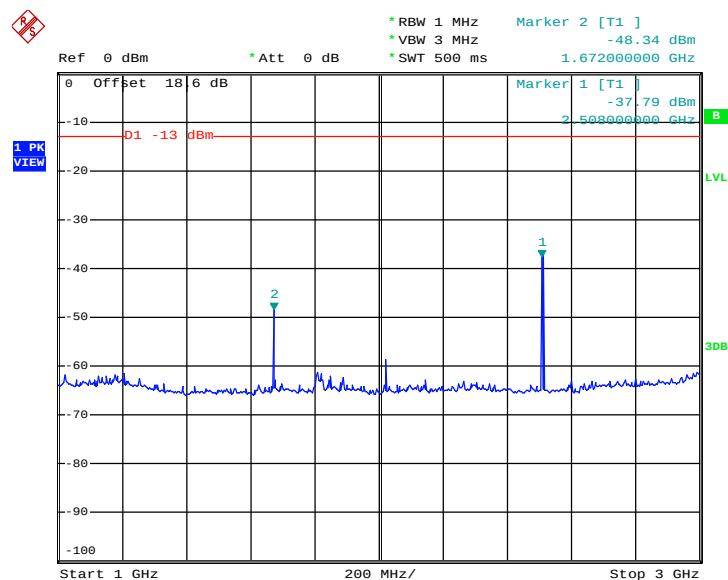


3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	GSM850	Channel :	CH189
Test Mode :	GSM Link	Frequency :	836.4 MHz

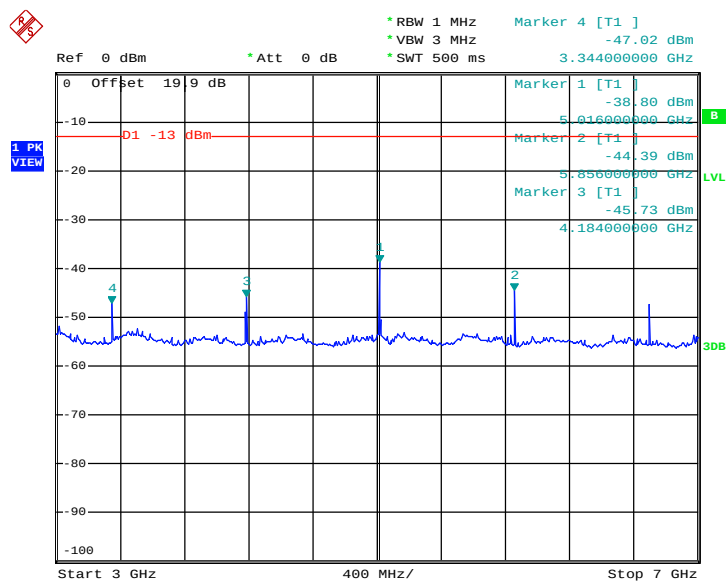
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 29.AUG.2012 04:16:08

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


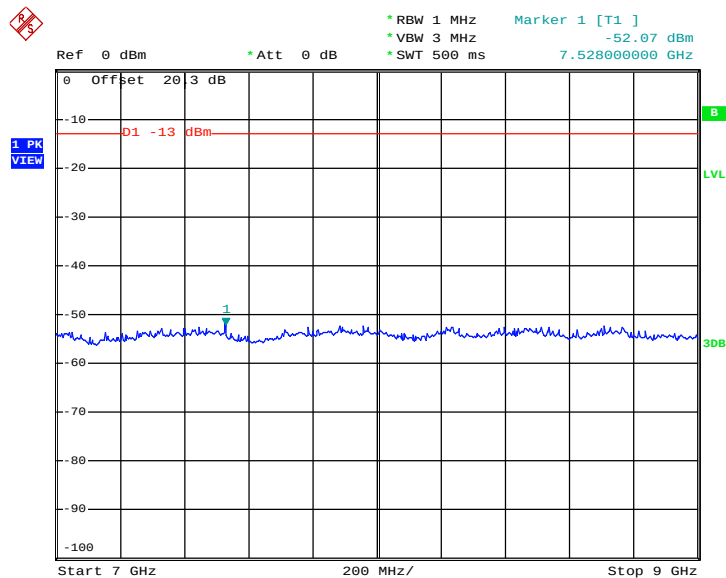
Date: 29.AUG.2012 03:19:00

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



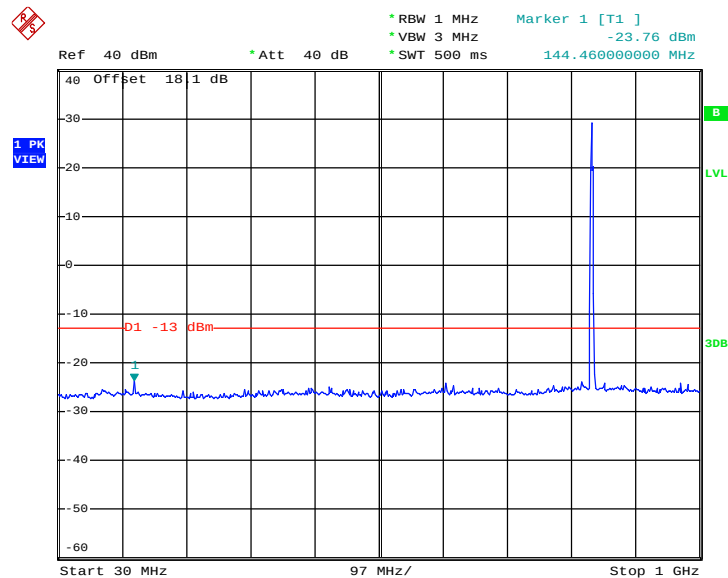
Date: 29.AUG.2012 03:33:00

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

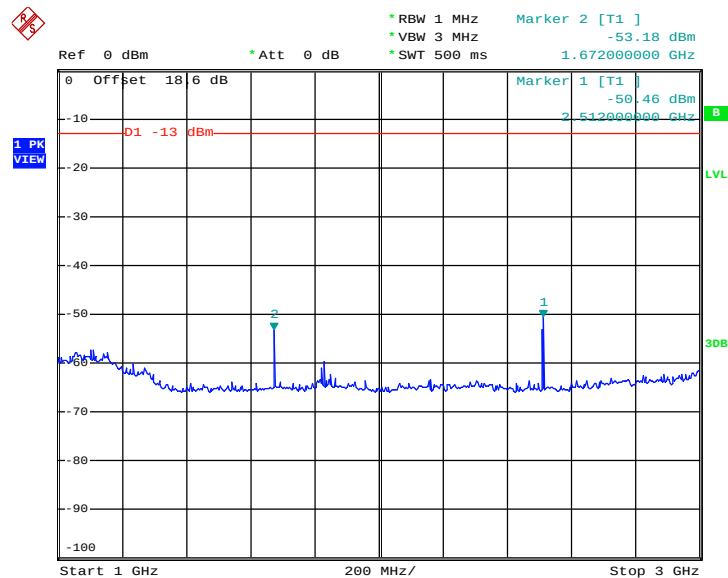


Date: 29.AUG.2012 03:21:53

Band :	GSM850	Channel :	CH189
Test Mode :	EDGE 8 Link	Frequency :	836.4 MHz

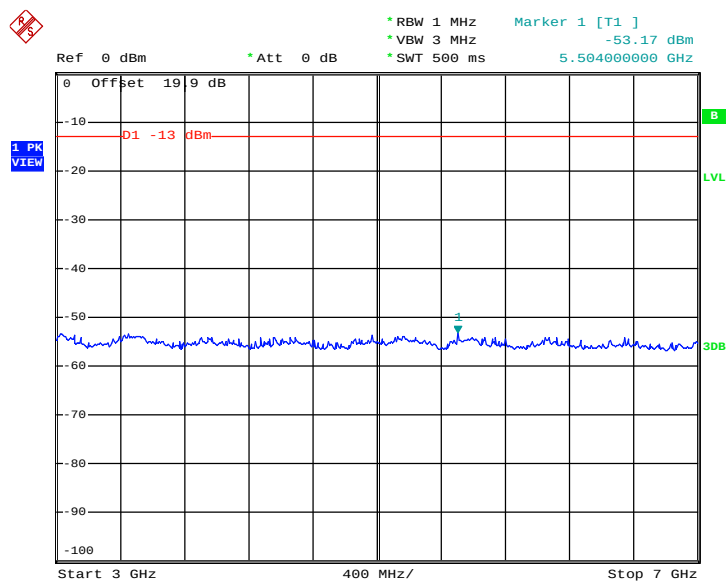
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 29.AUG.2012 04:17:10

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


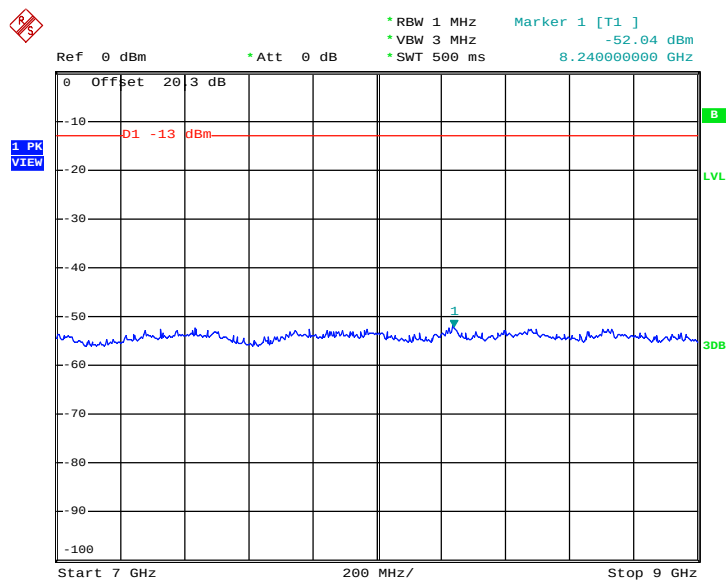
Date: 29.AUG.2012 03:29:16

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 29.AUG.2012 03:25:29

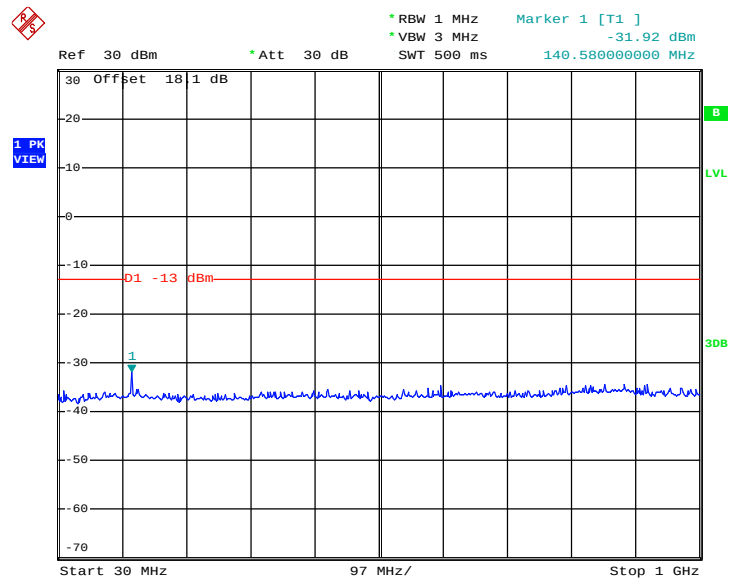
Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 29.AUG.2012 03:23:20

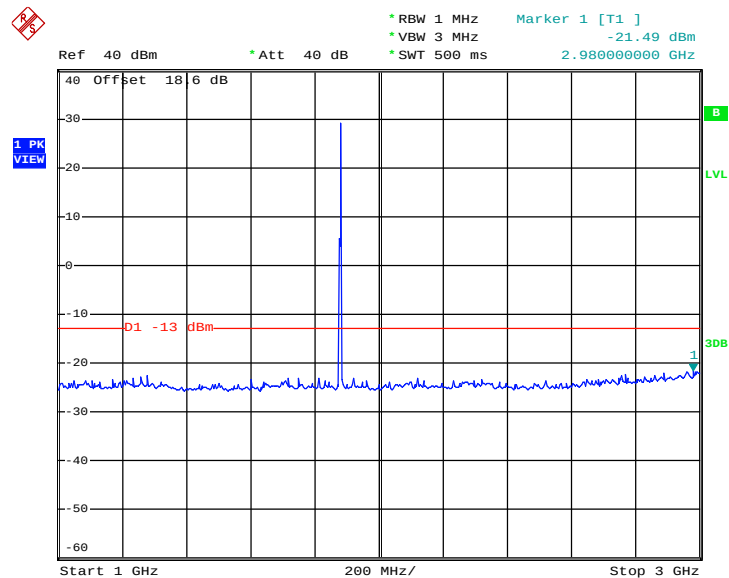
Band :	GSM1900	Channel :	CH661
Test Mode :	GSM Link	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz

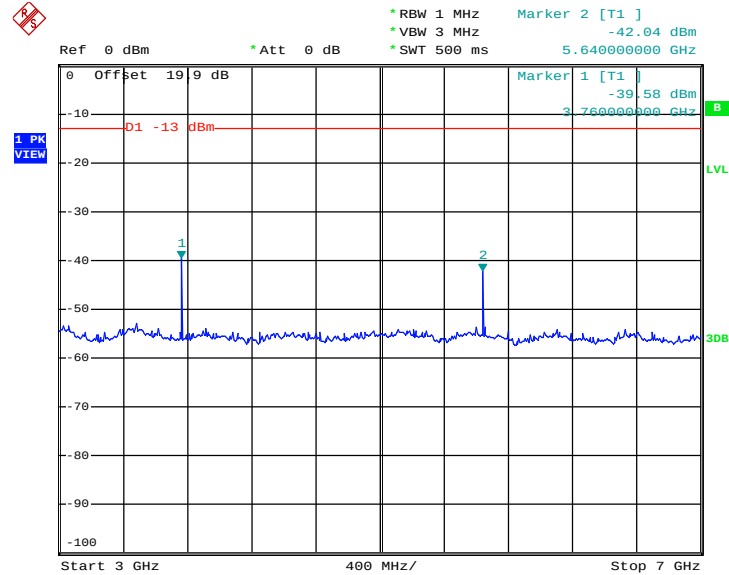


Date: 29.AUG.2012 04:08:38

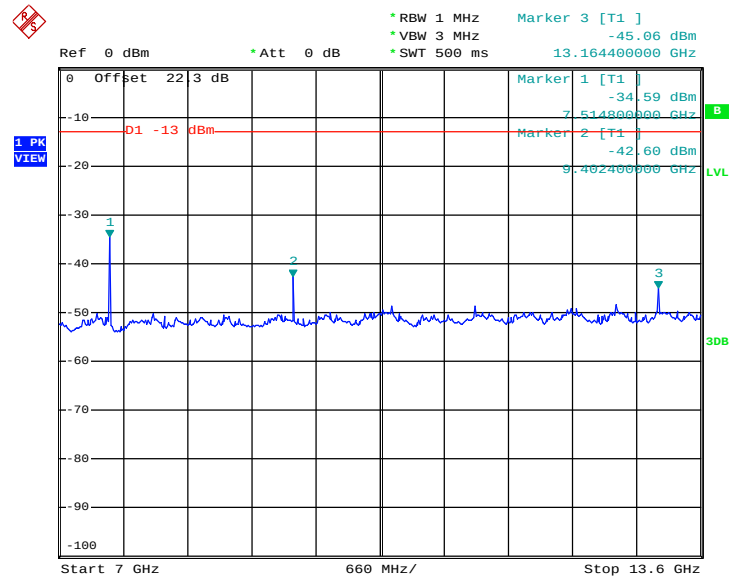
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 29.AUG.2012 04:09:45

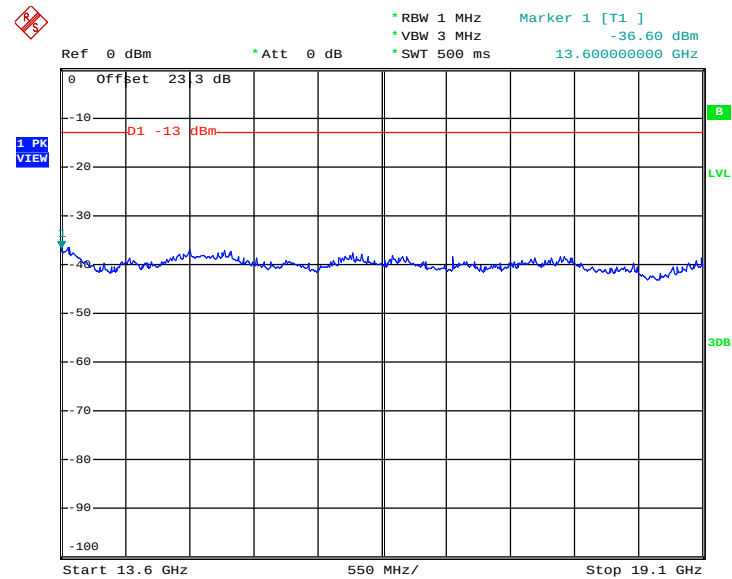
Conducted Spurious Emission Plot between 3GHz ~ 7GHz


Date: 29.AUG.2012 03:49:31

Conducted Emission Plot between 7GHz ~ 13.6GHz


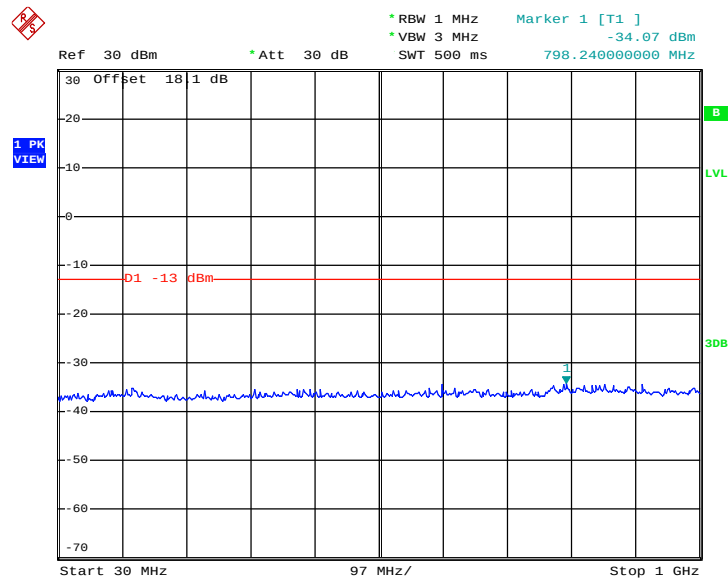
Date: 29.AUG.2012 03:48:31

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

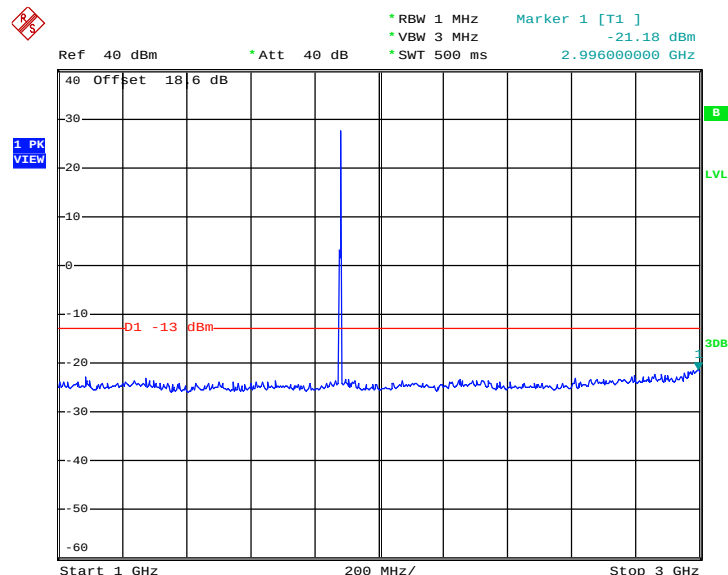


Date: 29.AUG.2012 03:46:27

Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE 8 Link	Frequency :	1880.0 MHz

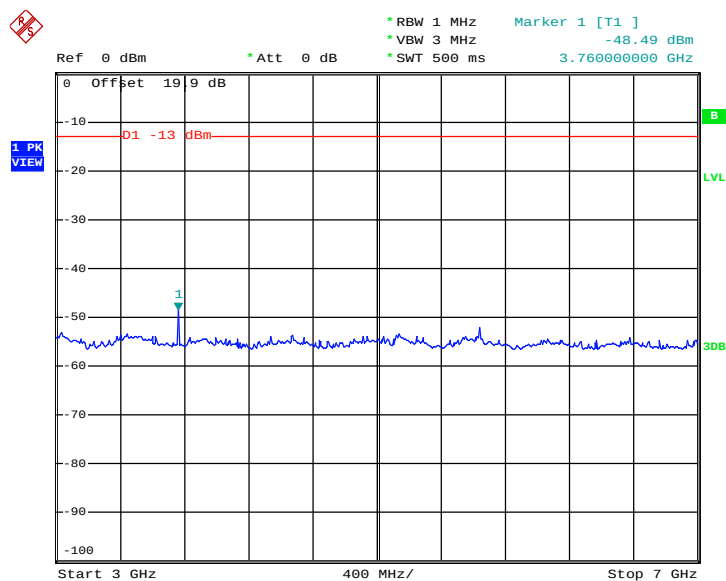
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 29.AUG.2012 04:26:47

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


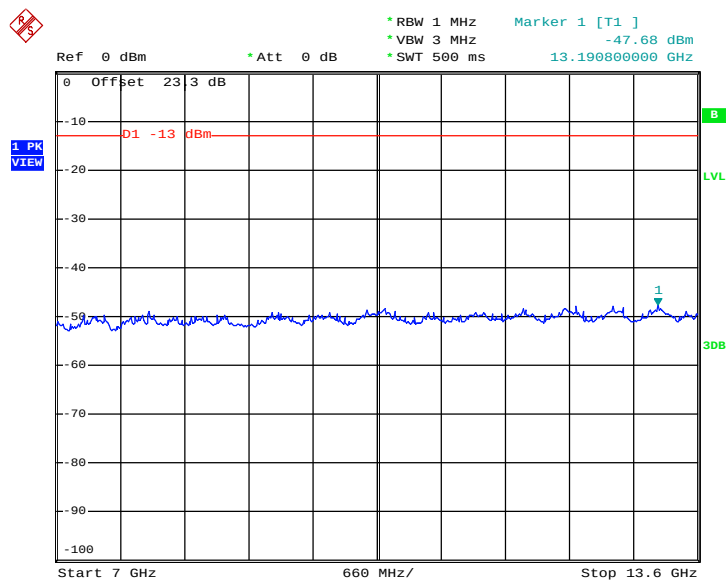
Date: 29.AUG.2012 04:27:50

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



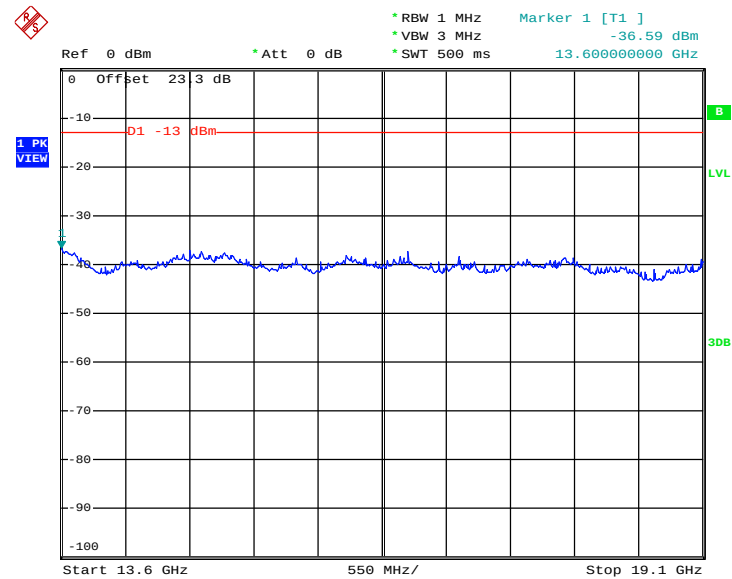
Date: 29.AUG.2012 03:51:26

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



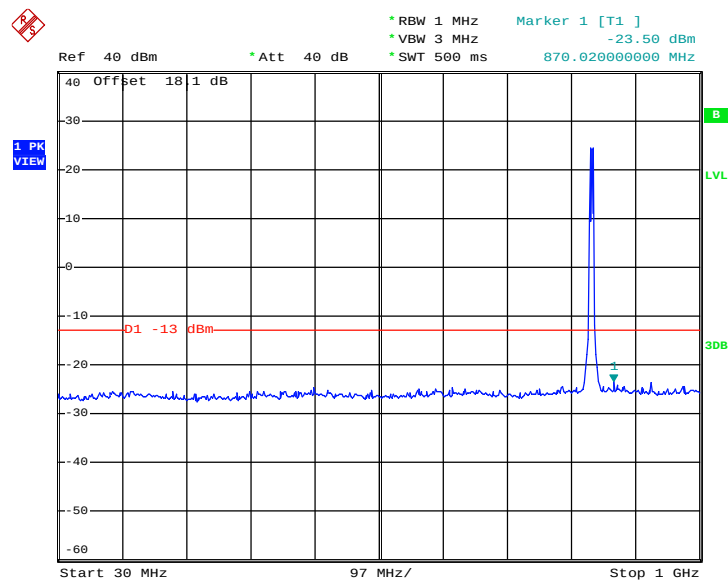
Date: 29.AUG.2012 03:53:41

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

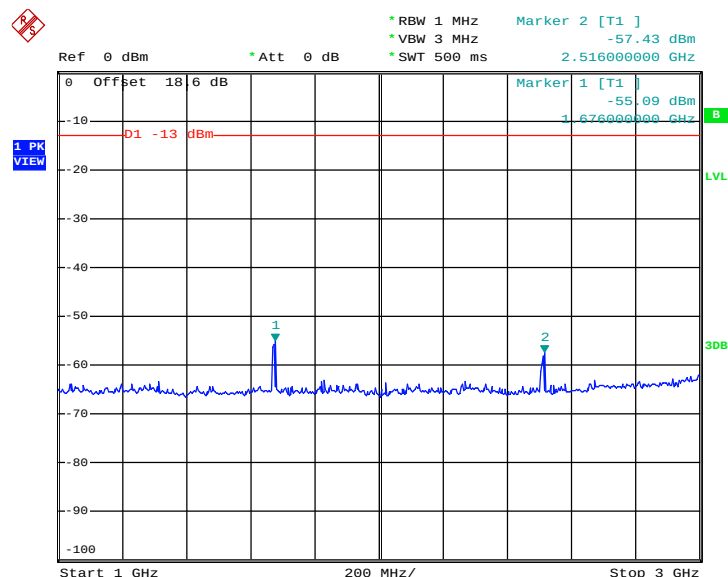


Date: 29.AUG.2012 05:01:53

Band :	WCDMA Band V	Channel :	CH4182
Test Mode :	RMC 12.2Kbps Link	Frequency :	836.4 MHz

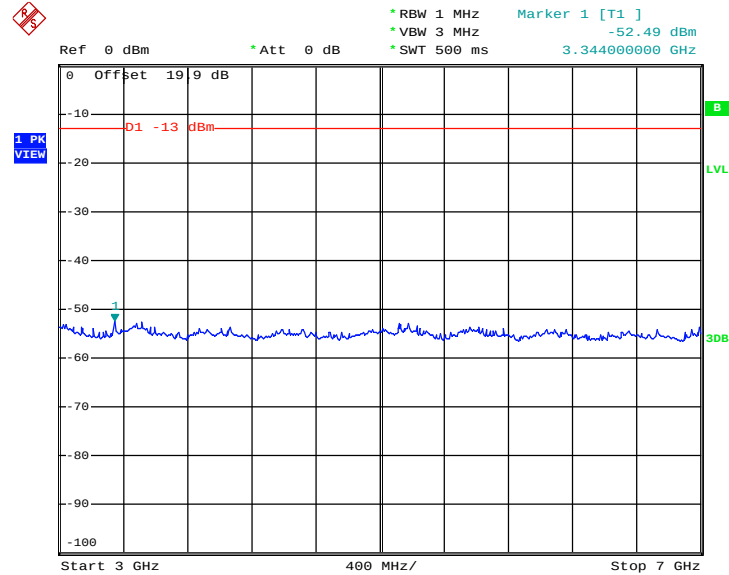
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 29.AUG.2012 04:34:44

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


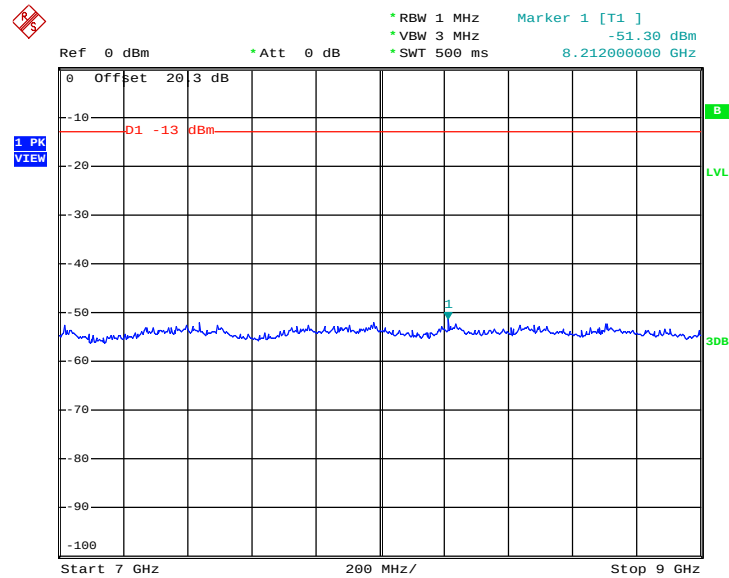
Date: 29.AUG.2012 04:20:40

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



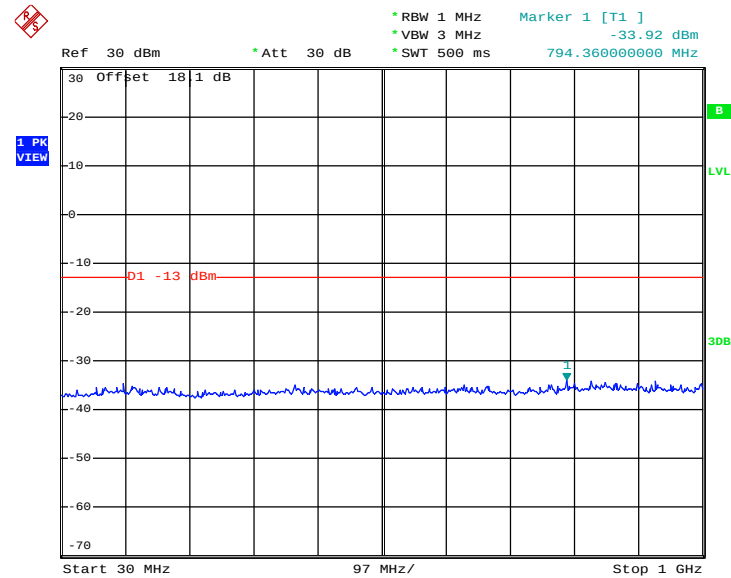
Date: 29.AUG.2012 03:35:01

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

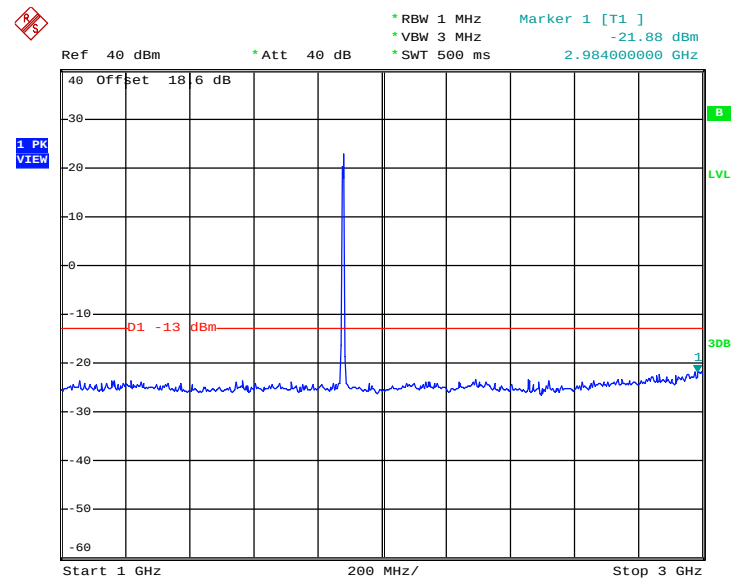


Date: 29.AUG.2012 04:49:37

Band :	WCDMA Band II	Channel :	CH9400
Test Mode :	RMC 12.2Kbps Link	Frequency :	1880.0 MHz

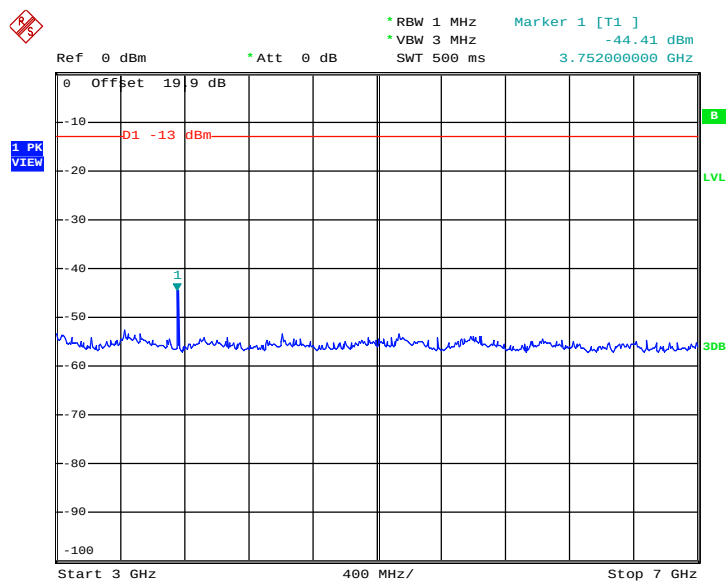
Conducted Spurious Emission Plot between 30MHz ~ 1GHz


Date: 29.AUG.2012 04:12:35

Conducted Spurious Emission Plot between 1GHz ~ 3GHz


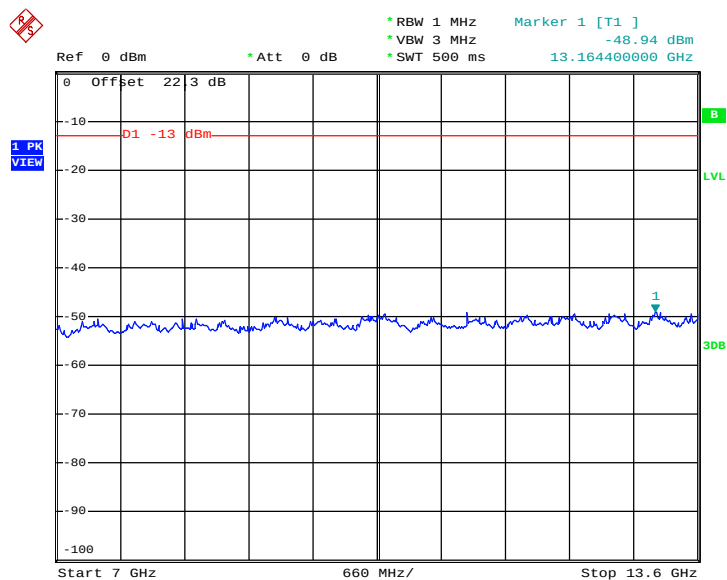
Date: 29.AUG.2012 04:11:27

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



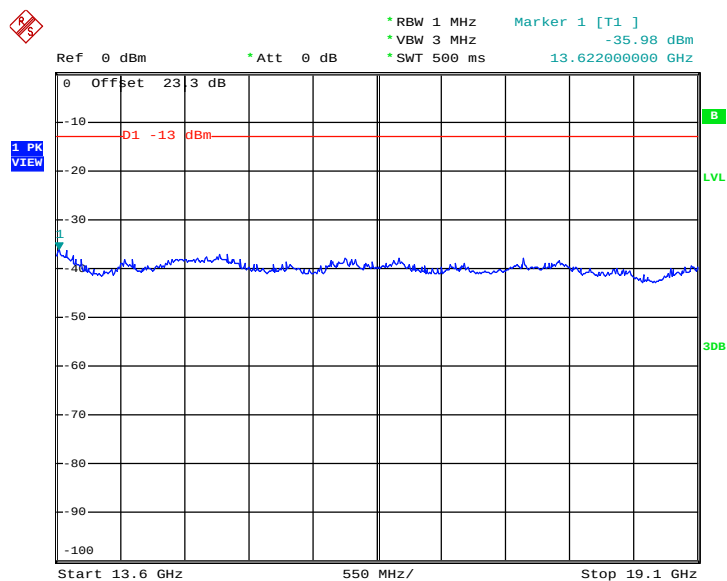
Date: 29.AUG.2012 03:42:22

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.AUG.2012 03:43:24

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 29.AUG.2012 03:44:42

3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

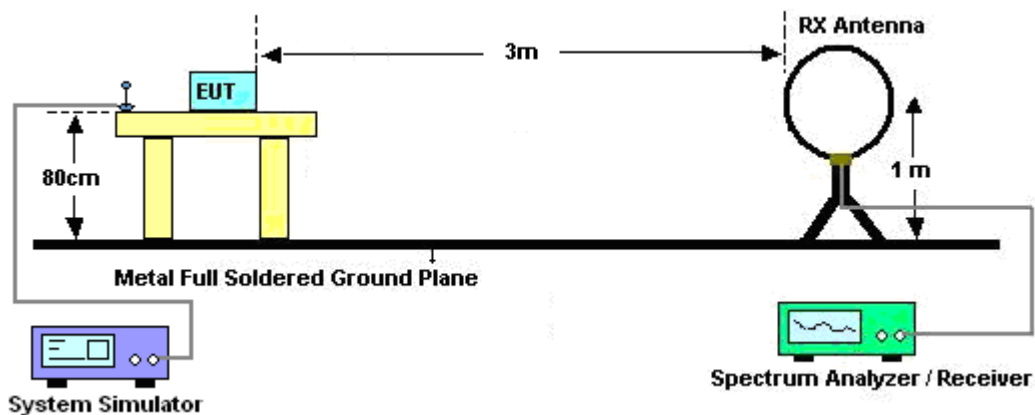
See list of measuring instruments of this test report.

3.7.3 Test Procedures

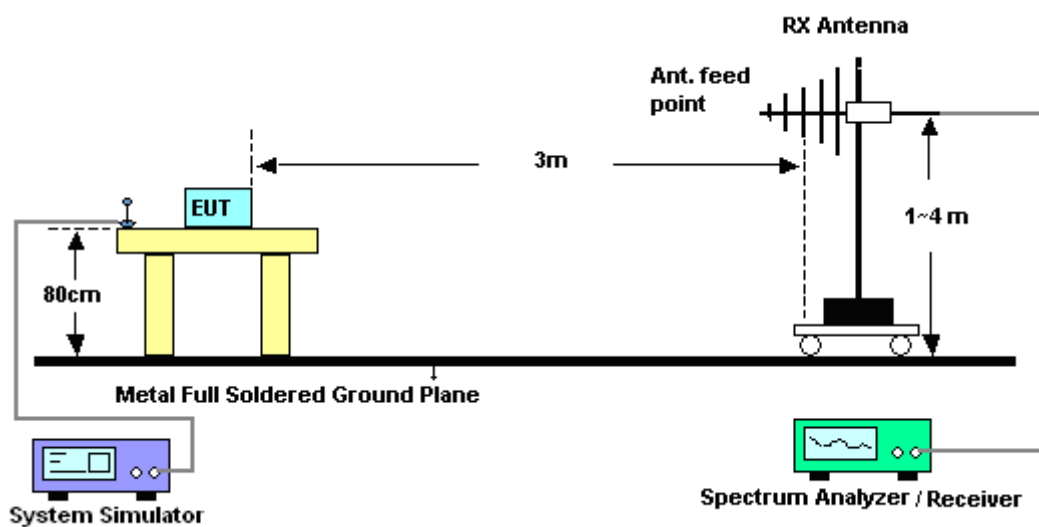
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$

3.7.4 Test Setup

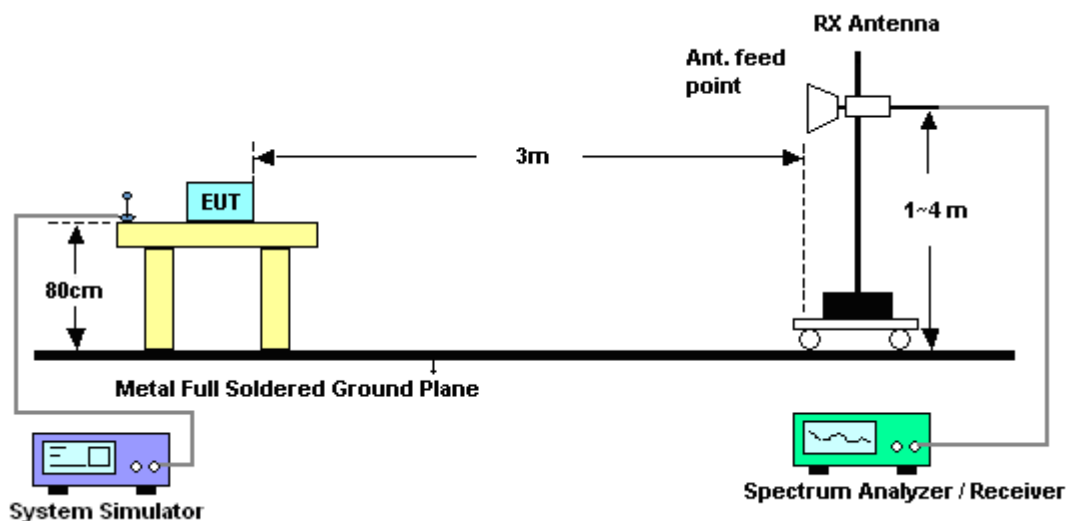
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

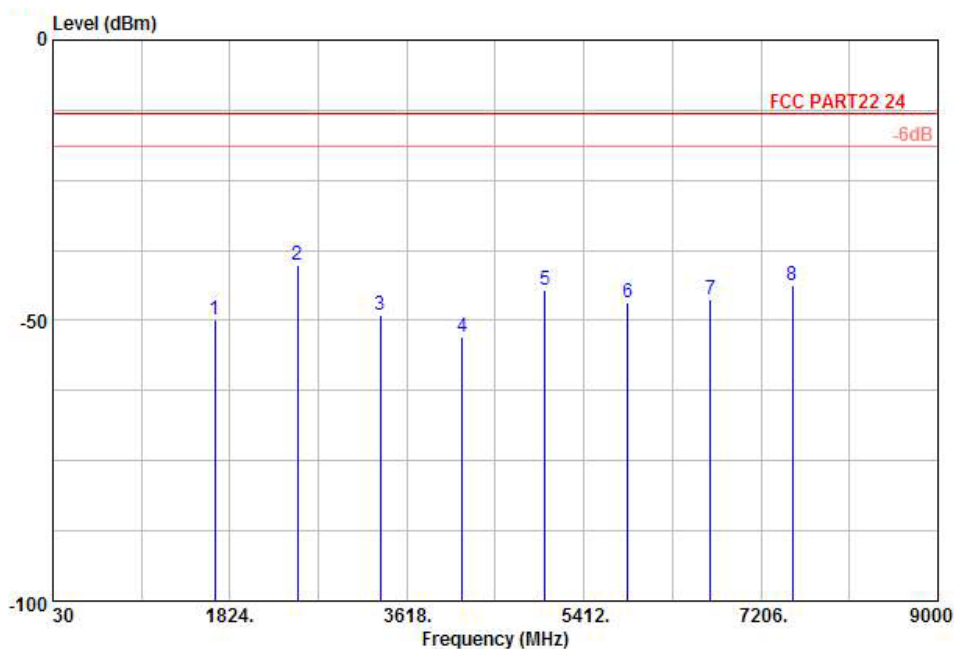


3.7.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.7.6 Test Result of Field Strength of Spurious Radiated

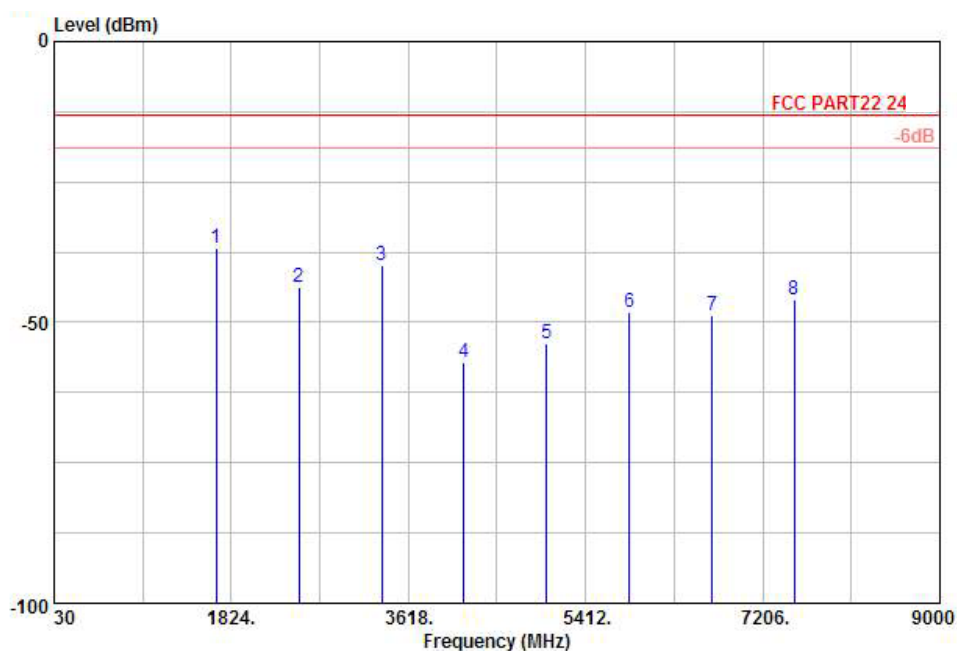
Band :	GSM850	Temperature :	19~20°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL
 Project : (FG) 281501
 Plan : E1

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-49.88	-13	-36.88	-50.15	-50.61	1.2	4.08	H	Pass
2509	-40.19	-13	-27.19	-46.78	-42.72	1.55	6.23	H	Pass
3345	-48.98	-13	-35.98	-54.58	-52.16	2.1	7.43	H	Pass
4182	-52.96	-13	-39.96	-61.25	-56.39	2.89	8.47	H	Pass
5018	-44.58	-13	-31.58	-58.65	-49.06	3.17	9.80	H	Pass
5854	-46.84	-13	-33.84	-61.55	-51.78	3.12	10.21	H	Pass
6691	-46.24	-13	-33.24	-63.74	-51.82	3	10.73	H	Pass
7527	-43.85	-13	-30.85	-64.01	-50.18	3.11	11.59	H	Pass

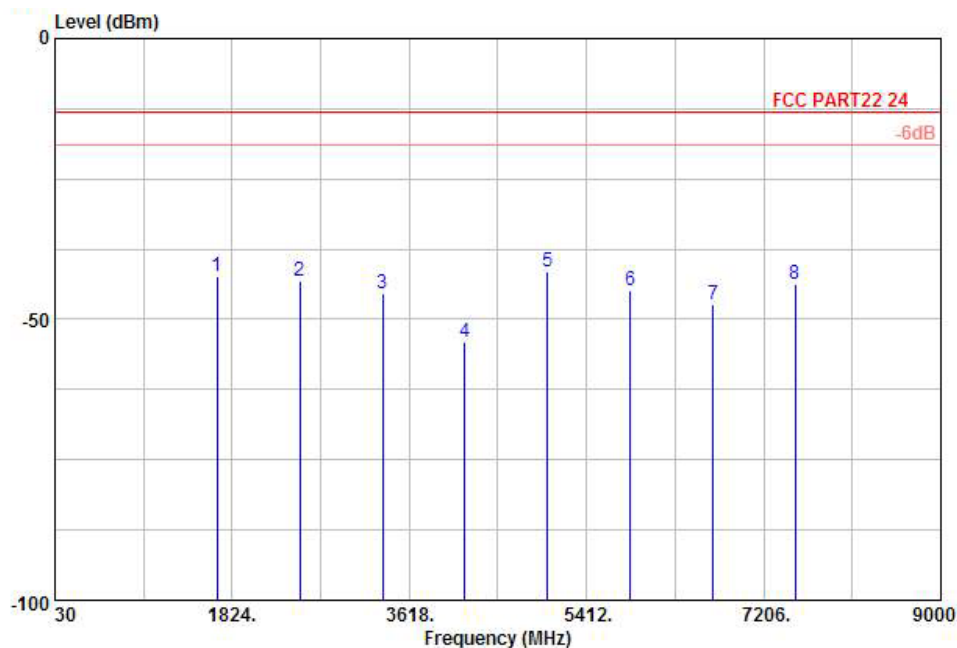
Band :	GSM850	Temperature :	19~20°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-36.72	-13	-23.72	-38.43	-37.45	1.20	4.08	V	Pass
2509	-43.69	-13	-30.69	-50.09	-46.22	1.55	6.23	V	Pass
3345	-39.81	-13	-26.81	-47.37	-42.99	2.10	7.43	V	Pass
4182	-57.09	-13	-44.09	-64.37	-60.52	2.89	8.47	V	Pass
5018	-53.76	-13	-40.76	-62.78	-58.24	3.17	9.80	V	Pass
5854	-48.12	-13	-35.12	-62.58	-53.06	3.12	10.21	V	Pass
6691	-48.86	-13	-35.86	-65.20	-54.44	3.00	10.73	V	Pass
7527	-45.83	-13	-32.83	-65.53	-52.16	3.11	11.59	V	Pass

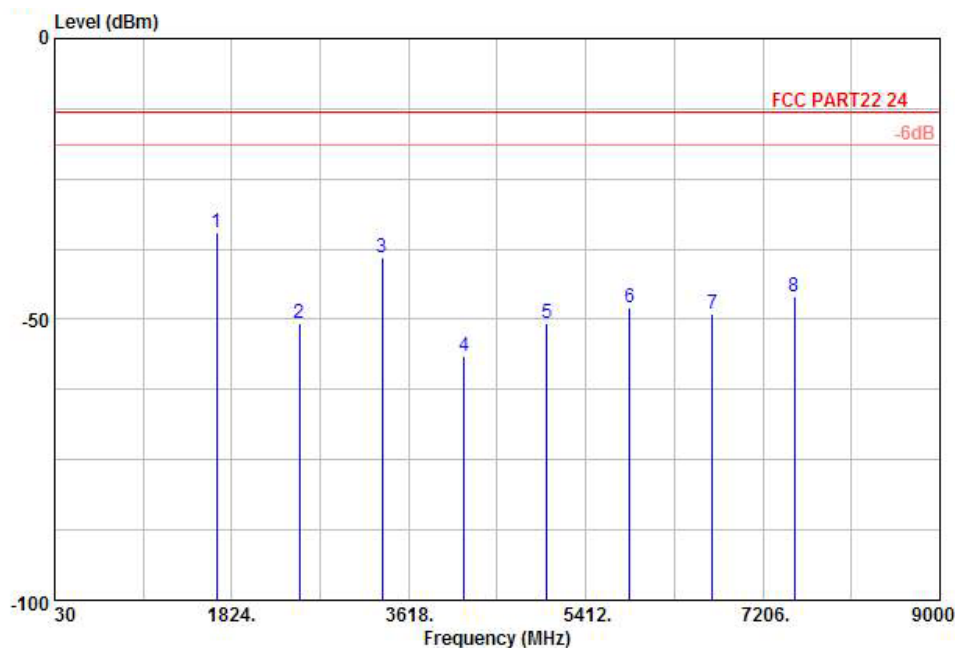
Band :	GSM850	Temperature :	19~20°C
Test Mode :	EDGE 8 Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-42.42	-13	-29.42	-42.97	-43.15	1.2	4.08	H	Pass
2509	-43.19	-13	-30.19	-49.56	-45.72	1.55	6.23	H	Pass
3345	-45.47	-13	-32.47	-52.14	-48.65	2.1	7.43	H	Pass
4182	-54.06	-13	-41.06	-62.35	-57.49	2.89	8.47	H	Pass
5018	-41.52	-13	-28.52	-56.31	-46.00	3.17	9.80	H	Pass
5854	-44.87	-13	-31.87	-59.62	-49.81	3.12	10.21	H	Pass
6691	-47.47	-13	-34.47	-64.97	-53.05	3	10.73	H	Pass
7527	-43.70	-13	-30.70	-63.86	-50.03	3.11	11.59	H	Pass

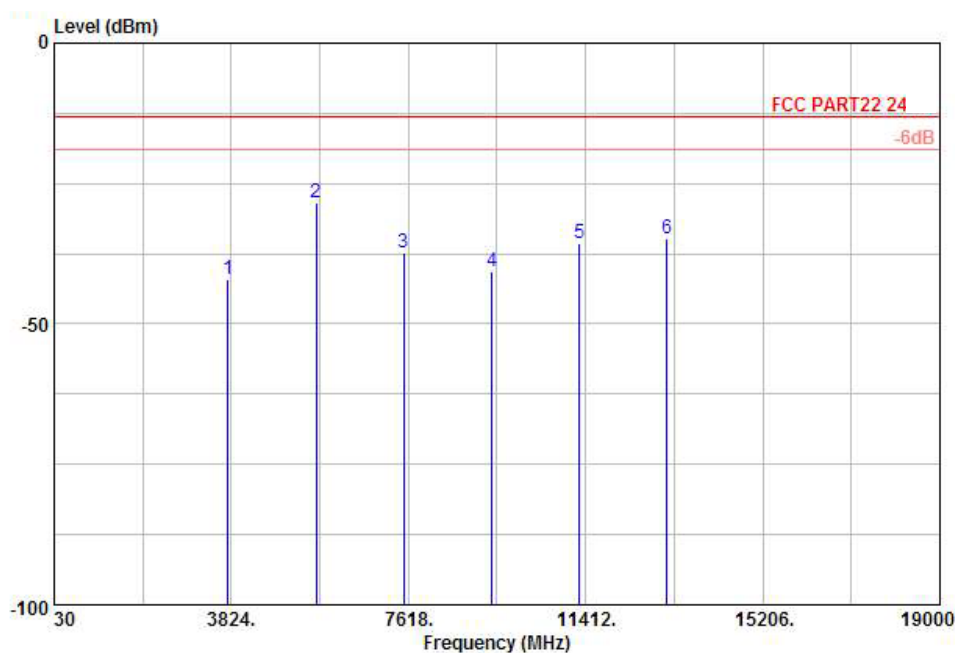
Band :	GSM850	Temperature :	19~20°C
Test Mode :	EDGE 8 Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-34.42	-13	-21.42	-36.34	-35.15	1.20	4.08	V	Pass
2509	-50.76	-13	-37.76	-55.35	-53.29	1.55	6.23	V	Pass
3345	-39.09	-13	-26.09	-46.53	-42.27	2.10	7.43	V	Pass
4182	-56.44	-13	-43.44	-63.72	-59.87	2.89	8.47	V	Pass
5018	-50.65	-13	-37.65	-59.67	-55.13	3.17	9.80	V	Pass
5854	-47.78	-13	-34.78	-62.24	-52.72	3.12	10.21	V	Pass
6691	-48.95	-13	-35.95	-65.29	-54.53	3.00	10.73	V	Pass
7527	-45.83	-13	-32.83	-65.53	-52.16	3.11	11.59	V	Pass

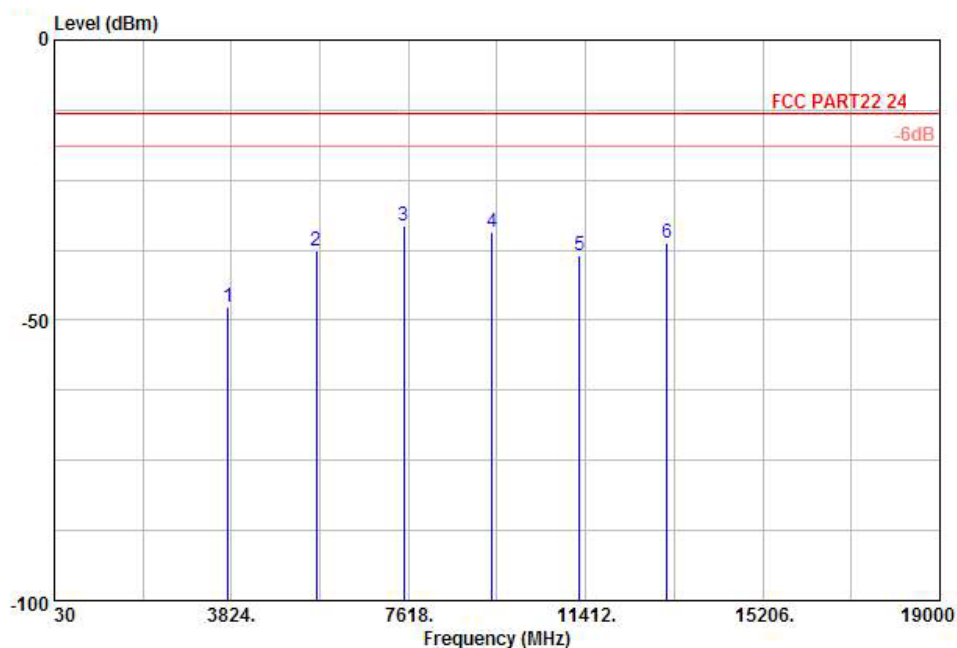
Band :	GSM1900	Temperature :	19~20°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-42.20	-13	-29.20	-53.63	-47.60	2.51	7.91	H	Pass
5640	-28.40	-13	-15.40	-47.43	-35.44	3.09	10.13	H	Pass
7520	-37.26	-13	-24.26	-59.22	-45.73	3.11	11.58	H	Pass
9400	-40.65	-13	-27.65	-62.11	-50.11	3.07	12.53	H	Pass
11280	-35.71	-13	-22.71	-61.74	-44.57	3.98	12.84	H	Pass
13160	-34.95	-13	-21.95	-63.06	-43.03	4.73	12.81	H	Pass

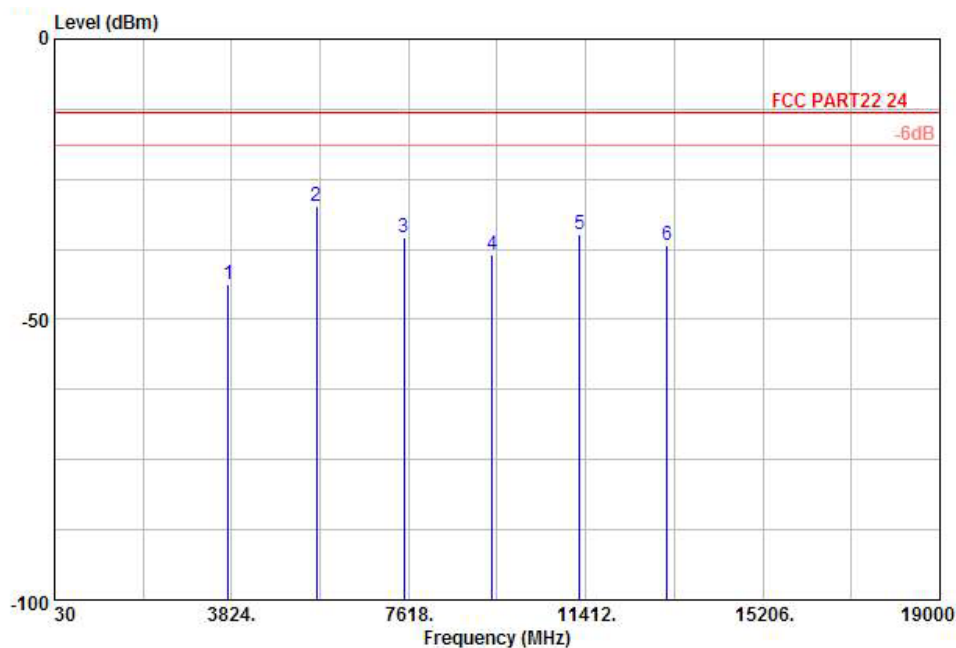
Band :	GSM1900	Temperature :	19~20°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-47.65	-13	-34.65	-56.32	-53.05	2.51	7.91	V	Pass
5640	-37.50	-13	-24.50	-53.58	-44.54	3.09	10.13	V	Pass
7520	-33.25	-13	-20.25	-55.72	-41.72	3.11	11.58	V	Pass
9400	-34.21	-13	-21.21	-57.86	-43.67	3.07	12.53	V	Pass
11280	-38.31	-13	-25.31	-64.03	-47.17	3.98	12.84	V	Pass
13160	-36.08	-13	-23.08	-62.9	-44.16	4.73	12.81	V	Pass

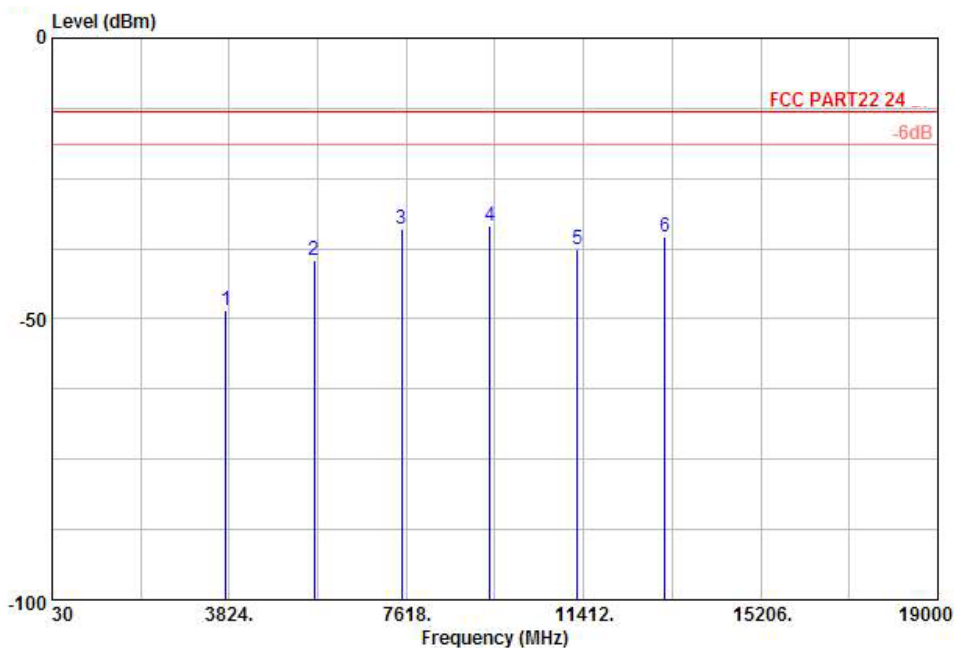
Band :	GSM1900	Temperature :	19~20°C
Test Mode :	EDGE 8 Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL
 Project : (FG) 281501
 Plan : E1

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-43.71	-13	-30.71	-55.52	-49.11	2.51	7.91	H	Pass
5640	-29.77	-13	-16.77	-48.78	-36.81	3.09	10.13	H	Pass
7520	-35.24	-13	-22.24	-58.14	-43.71	3.11	11.58	H	Pass
9400	-38.57	-13	-25.57	-60.86	-48.03	3.07	12.53	H	Pass
11280	-34.91	-13	-21.91	-61.37	-43.77	3.98	12.84	H	Pass
13160	-36.69	-13	-23.69	-63.99	-44.77	4.73	12.81	H	Pass

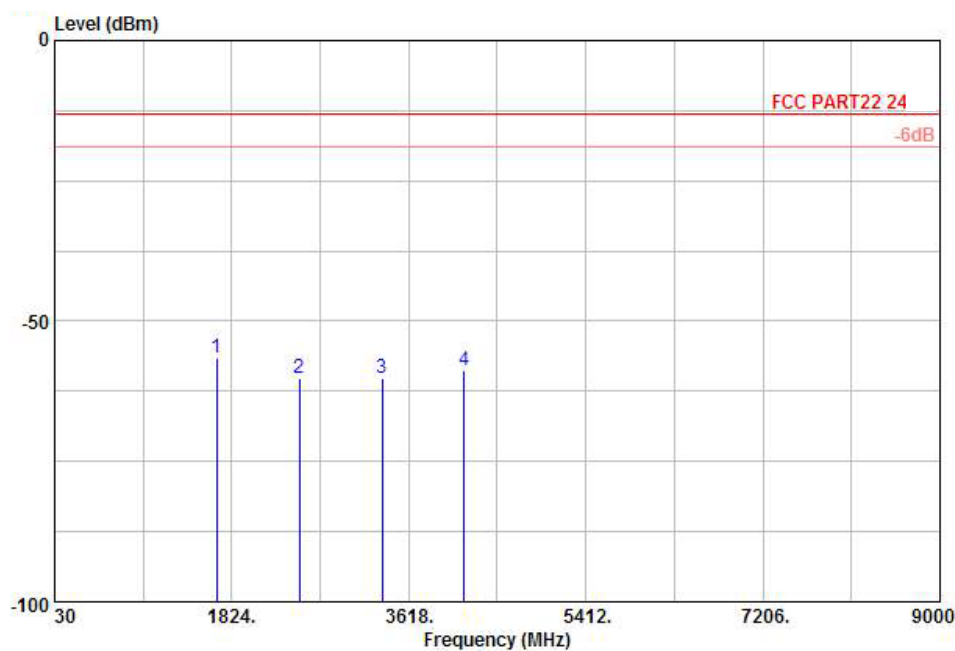
Band :	GSM1900	Temperature :	19~20°C
Test Mode :	EDGE 8 Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-48.44	-13	-35.44	-56.73	-53.84	2.51	7.91	V	Pass
5640	-39.42	-13	-26.42	-55.29	-46.46	3.09	10.13	V	Pass
7520	-33.93	-13	-20.93	-56.32	-42.40	3.11	11.58	V	Pass
9400	-33.51	-13	-20.51	-57.24	-42.97	3.07	12.53	V	Pass
11280	-37.48	-13	-24.48	-63.2	-46.34	3.98	12.84	V	Pass
13160	-35.50	-13	-22.50	-62.58	-43.58	4.73	12.81	V	Pass

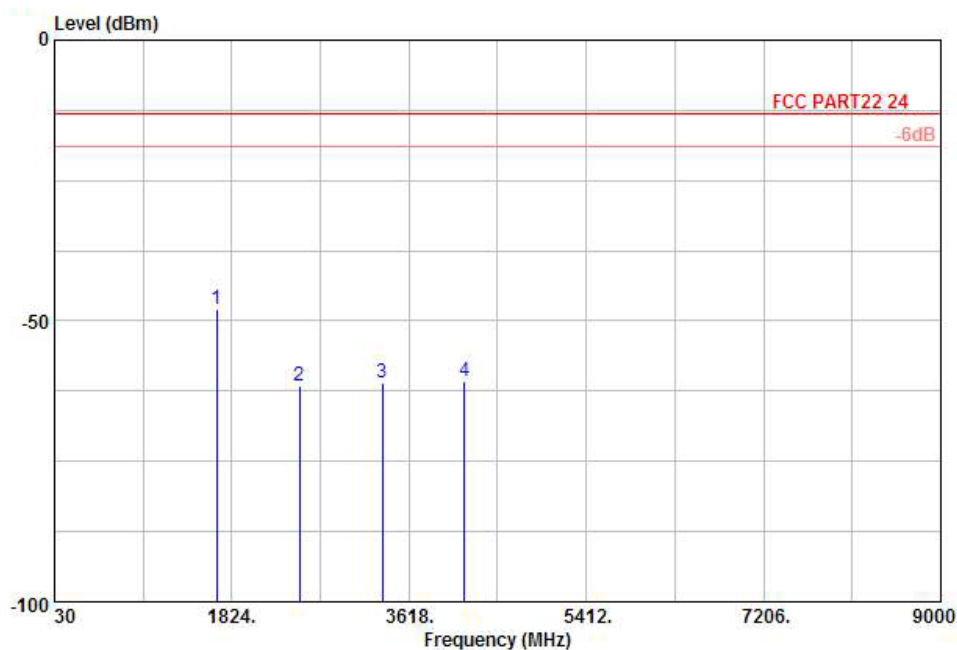
Band :	WCDMA Band V	Temperature :	19~20°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-56.46	-13	-43.46	-54.95	-57.19	1.2	4.08	H	Pass
2509	-60.17	-13	-47.17	-65.29	-62.70	1.55	6.23	H	Pass
3345	-60.28	-13	-47.28	-65.46	-63.46	2.1	7.43	H	Pass
4182	-58.80	-13	-45.80	-67.09	-62.23	2.89	8.47	H	Pass

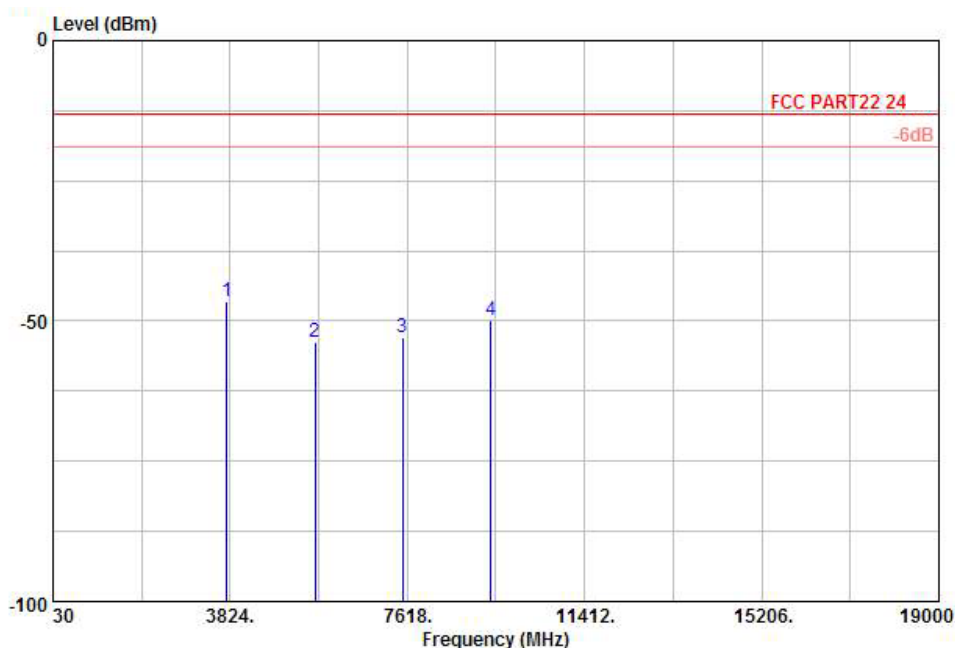
Band :	WCDMA Band V	Temperature :	19~20°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL
 Project : (FG) 281501
 Plan : E1

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-47.82	-13	-34.82	-48.75	-48.55	1.20	4.08	V	Pass
2509	-61.43	-13	-48.43	-66.02	-63.96	1.55	6.23	V	Pass
3345	-60.97	-13	-47.97	-65.87	-64.15	2.10	7.43	V	Pass
4182	-60.86	-13	-47.86	-68.14	-64.29	2.89	8.47	V	Pass

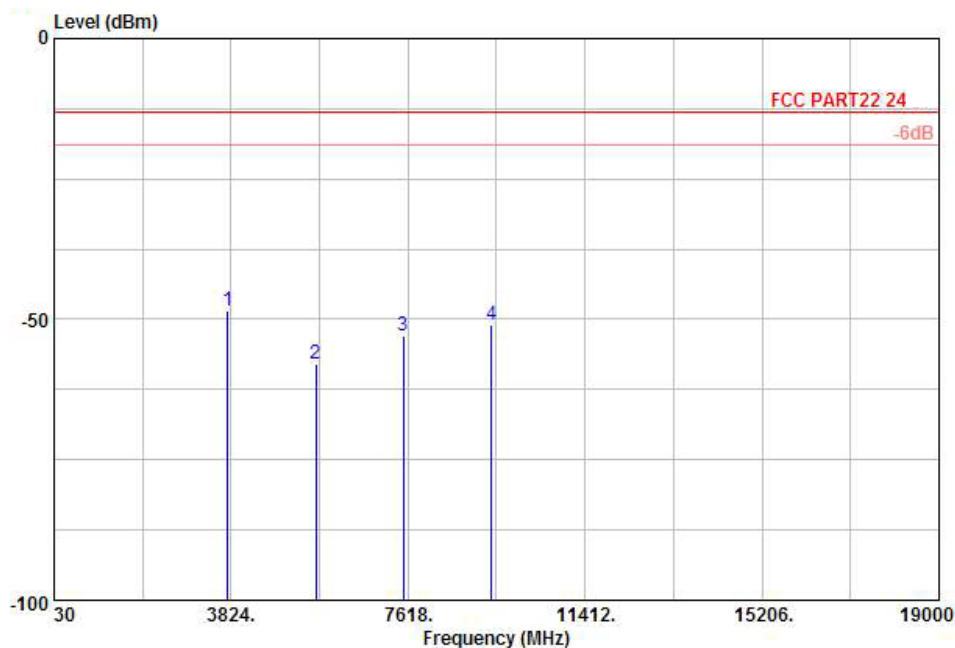
Band :	WCDMA Band II	Temperature :	19~20°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
 Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL
 Project : (FG) 281501
 Plan : E1

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-46.64	-13	-33.64	-57.76	-52.04	2.51	7.91	H	Pass
5640	-53.83	-13	-40.83	-65.65	-60.87	3.09	10.13	H	Pass
7520	-52.90	-13	-39.90	-68.78	-61.37	3.11	11.58	H	Pass
9400	-49.80	-13	-36.80	-68.89	-59.26	3.07	12.53	H	Pass

Band :	WCDMA Band II	Temperature :	19~20°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Jack Li	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS
Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL
Project : (FG) 281501
Plan : E1

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-48.36	-13	-35.36	-56.71	-53.76	2.51	7.91	V	Pass
5640	-58.02	-13	-45.02	-68.95	-65.06	3.09	10.13	V	Pass
7520	-52.94	-13	-39.94	-68.25	-61.41	3.11	11.58	V	Pass
9400	-51.11	-13	-38.11	-69.27	-60.57	3.07	12.53	V	Pass

3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

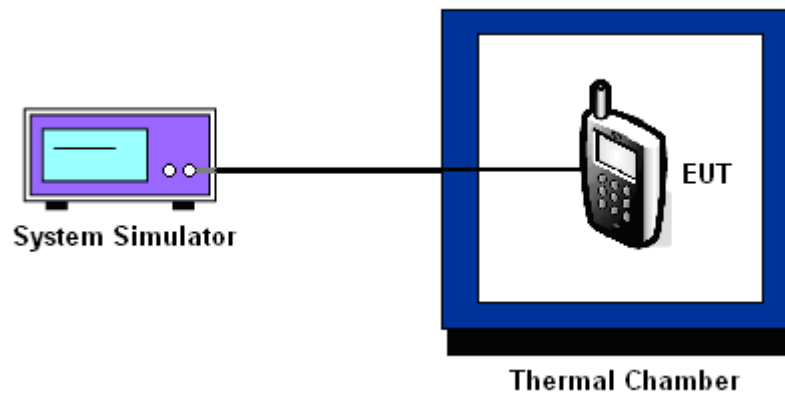
3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT cannot be turned on at -30°C , the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.8.5 Test Setup



3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel :	189
Limit (ppm) :	2.5	Frequency :	836.4 MHz

Temperature (°C)	GSM		EDGE 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-16	-0.02	-16	-0.02	PASS
-20	-16	-0.02	-12	-0.01	
-10	-15	-0.02	-11	-0.01	
0	-12	-0.01	-15	-0.02	
10	-13	-0.02	-13	-0.01	
20	-17	-0.02	-13	-0.02	
30	-16	-0.02	-10	-0.01	
40	-16	-0.02	-7	-0.01	
50	-8	-0.01	-6	-0.01	
55	-9	-0.01	-5	-0.01	

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

Band :	GSM 1900	Channel :	661
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	GSM		EDGE 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	25	0.01	31	0.02	PASS
-20	23	0.01	30	0.02	
-10	22	0.01	30	0.02	
0	20	0.01	26	0.01	
10	20	0.01	29	0.02	
20	21	0.01	28	0.01	
30	22	0.01	30	0.02	
40	24	0.01	31	0.02	
50	26	0.01	30	0.02	
55	22	0.01	33	0.02	

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

Band :	WCDMA Band V	Channel :	4182
Limit (ppm) :	2.5	Frequency :	836.4 MHz

Temperature (°C)	RMC 12.2Kbps		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-6.5	-0.01	PASS
-20	-6	-0.01	
-10	5.75	0.01	
0	-7.3	-0.01	
10	-5.3	-0.01	
20	-4.1	0.00	
30	5.06	0.01	
40	2.46	0.00	
50	3.9	0.00	
55	-3.03	0.00	

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

Band :	WCDMA Band II	Channel :	9400
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	RMC 12.2Kbps		Result
	Freq. Dev. (Hz)	Deviation (ppm)	
-30	12	0.01	PASS
-20	10	0.01	
-10	13	0.01	
0	10	0.01	
10	11	0.01	
20	12	0.01	
30	13	0.01	
40	11	0.01	
50	12	0.01	
55	11	0.01	

Note: The manufacturer declared that the EUT could work properly at temperature 55°C.

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	3.7	-16	-0.02	2.5	PASS
		BEP	-15	-0.02		
		4.2	-15	-0.02		
	EDGE 8	3.7	-9	-0.01		
		BEP	8	0.01		
		4.2	-6	-0.01		
GSM 1900 CH661	GSM	3.7	21	0.01		
		BEP	24	0.01		
		4.2	23	0.01		
	EDGE 8	3.7	28	0.01		
		BEP	29	0.02		
		4.2	30	0.02		
WCDMA Band V CH4182	RMC 12.2Kbps	3.7	-5.01	-0.01		
		BEP	-4.23	0.00		
		4.2	-4.27	-0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	3.7	10	0.01		
		BEP	11	0.01		
		4.2	12	0.01		

Note:

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.4 V.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Aug. 22, 2012~ Aug. 29, 2012	Dec. 29, 2012	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Aug. 22, 2012~ Aug. 29, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Aug. 22, 2012~ Aug. 29, 2012	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 30, 2011	Aug. 22, 2012~ Aug. 29, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Aug. 20, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Aug. 20, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Aug. 20, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Aug. 20, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Aug. 20, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Aug. 20, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15GHz~40GHz	Oct. 11, 2011	Aug. 20, 2012	Oct. 10, 2012	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Aug. 20, 2012	Jul. 02, 2013	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep. 20, 2011	Aug. 20, 2012	Sep. 19, 2012	Radiation (03CH01-KS)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72
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Appendix A. Photographs of EUT

Please refer to Sporton report number EP281501 as below.