

TEST REPORT

of

FCC Part 22 Subpart H and Part 24 Subpart E
FCC ID : BEJC900N

Equipment Under Test : Cellular/PCS GSM/EDGE & WCDMA Phone
with Bluetooth & WLAN
Model Name : LG-C900N, C900N, LG-C900n, C900n
Serial No. : N/A
Applicant : LG Electronics Inc.
Manufacturer : LG Electronics Inc.
Date of Test(s) : 2010.08.20 ~ 2010.09.07
Date of Issue : 2010.09.07

In the configuration tested, the EUT complied with the standards specified above.

Tested By:



Grant Lee

Date

2010.09.07

Approved By



Feel Jeong

Date

2010.09.07

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1. General information

1.1. Testing laboratory

SGS Testing Korea Co., Ltd.

- 705, Dongchun-Dong Sooji-Gu, Yongin-Shi, Kyungki-Do, South Korea.
- Wireless Div. 2FL, 18-34, Sanbon-dong, Gunpo-si, Gyeonggi-do, Korea 435-040

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1.2. Details of applicant

Applicant : LG Electronics Inc.
Address : 60-39, Gasan-dong, Gumchon-gu, Seoul, 153-023, Korea
Contact Person : Kim, Hyeon Kyun
Phone No. : +82 +2 2033 1113

1.3. Description of EUT

Kind of Product	Cellular/PCS GSM/EDGE/WCDMA Phone with Bluetooth & WLAN
Model Name	LG-C900N, C900N, LG-C900n,C900n
Serial Number	N/A
Power Supply	DC 3.7 V (Li-Ion Battery)
Rated Power	GSM850 : 33.0 dBm GSM1900 : 30.0 dBm WCDMA1900 : 23.5 dBm
Frequency Range	GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1 850.2 MHz ~ 1 909.8 MHz WCDMA1900 : 1 852.4 MHz ~ 1 907.6 MHz Bluetooth : 2 402 ~ 2 480 MHz WLAN : 2 412 ~ 2 462 MHz (11b/g/, 11n_Only_HT20_SISO)
Number of Channels	GSM850 : 125 GSM1900 : 300 WCDMA1900 : 277 Bluetooth : 79 WLAN : 11
Class of GPRS	Class 12, Class B

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1.4. Description of test mode

Band	Frequency (MHz)	Voice GSM (dBm)	GPRS Data			
			GPRS	GPRS	GPRS	GPRS
			1 TX Slot (dBm)	2 TX Slot (dBm)	3 TX Slot (dBm)	4 TX Slot (dBm)
GSM 850	824.2	33.06	33.06	30.97	30.00	29.03
	836.6	33.04	33.05	30.97	29.99	29.02
	848.8	33.05	33.04	30.94	29.98	29.03
GSM 1900	1850.2	29.99	29.99	28.51	27.50	26.56
	1880.0	30.10	30.11	28.62	27.61	26.64
	1909.8	29.98	29.97	28.46	27.47	26.52

Band	Frequency (MHz)	EDGE Data			
		EDGE	EDGE	EDGE	EDGE
		1 TX Slot (dBm)	2 TX Slot (dBm)	3 TX Slot (dBm)	4 TX Slot (dBm)
GSM 850	824.2	27.07	26.57	25.64	24.57
	836.6	27.09	26.59	25.56	24.61
	848.8	27.07	26.62	25.58	24.56
GSM 1900	1850.2	26.10	25.59	24.63	23.59
	1880.0	26.17	25.62	24.68	23.66
	1909.8	26.13	25.57	24.66	23.68

3GPP Release version	Mode	3GPP 34.121	PCS Band[dBm]		
		Sutest	9262	9400	9538
99	WCDMA	12.2kbps RMC	23.20	23.52	23.36
5	HSDPA	Sutest1	23.36	23.49	23.35
5		Sutest2	23.19	23.43	23.28
5		Sutest3	22.82	23.01	22.72
5		Sutest4	22.68	22.99	22.79
6	HSUPA	Sutest1	22.91	22.96	22.77
6		Sutest2	21.29	21.50	21.68
6		Sutest3	22.03	22.10	21.90
6		Sutest4	21.74	21.77	21.70
6		Sutest5	22.66	22.63	23.01

GSM (850 / 1900)

We found out the test mode with the highest power level after we analyze all the data rates. So we chose GSM voice (850 / 1900) and WCDMA 1900 12.2kbps RMC (worst case) as a representative.

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1.5. Test equipment list

Equipment	Manufacturer	Model	Cal Due.
Signal Generator	Agilent	E4438C	Mar. 31, 2011
Signal Generator	Rohde & Schwarz	SMR40	Sep. 25, 2010
Spectrum Analyzer	Rohde & Schwarz	FSV30	Mar. 31, 2011
Mobile Test Unit	Rohde & Schwarz	CMU200	Sep. 28, 2010
Directional Coupler	KRYTAR	152661	Jun. 01, 2011
High Pass Filter	Wainwright	WHK3.0/18G-10SS	Sep. 29, 2010
Band Reject Filter	Wainwright	WRCG824/849-814/85 960/10SS	Apr. 01, 2011
DC power Supply	Agilent	U8002A	Jan. 06, 2011
Preamplifier	H.P.	8447F	Jul. 05, 2011
Preamplifier	Rohde & Schwarz	8449B	Mar. 31, 2011
Test Receiver	R & S	ESU26	Apr. 08, 2011
Bilog Antenna	SCHWARZBECK MESSELEKTRONIK	396	Jul. 22, 2011
Horn Antenna	Rohde & Schwarz	HF 906	Oct. 08, 2011
Horn Antenna	SCHWARZBECK	BBH 9120D	Nov. 09, 2011
Dipole Antenna	VHAP/UHAP	975/958	Oct. 10, 2011
Antenna Master	EMCO	1050	N.C.R
Turn Table	Daeil EMC	DI-1500	N.C.R
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	Jan. 27, 2011

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1.6. Summary of test results

The EUT has been tested according to the following specifications:

APPLIED STANDARD : FCC Part 22, 24		
Section in FCC part	Test Item	Result
§2.1046 §22.913(a) §24.232(b)	RF Radiated Output Power	Complied
§2.1053 §22.917(e) §24.238(a)	Spurious Radiated Emission	Complied
§2.1046(a)	Conducted Output Power	Complied
§2.1049(h) (i)	Occupied Bandwidth	Complied
§2.1051 §22.917(e) §24.238(a)	Spurious Emission at Antenna Terminal	Complied
§2.1055 §22.355 §24.235	Frequency Stability	Complied
§22.917(e) §24.238(a)	Band Edge	Complied

1.7. Test report revision

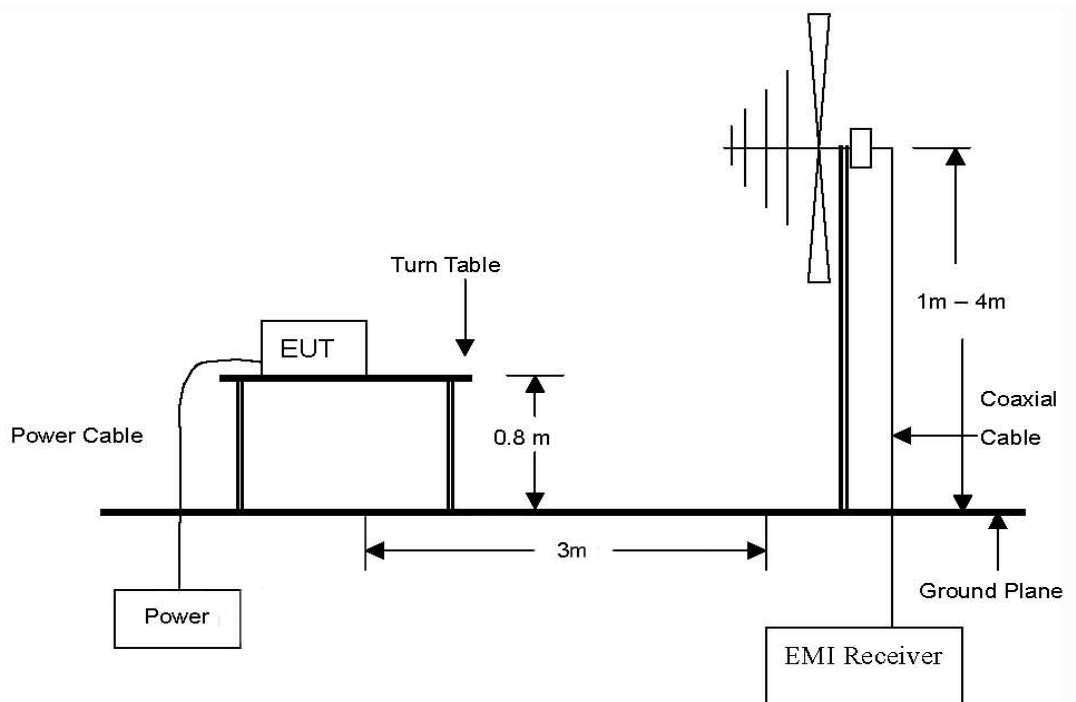
Revision	Report number	Description
0	F690501/RF-RTL004132	Initial

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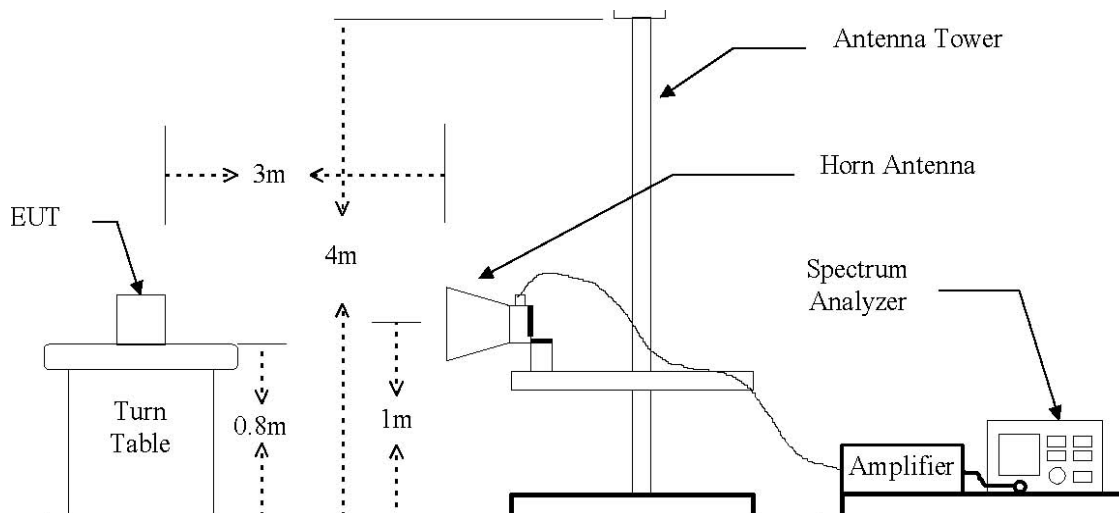
2. RF radiated output power & spurious radiated emission

2.1. Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 18 GHz Emissions.



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The diagram below shows the test setup for substituted method



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2.2. Limit

FCC §22.913(a), the ERP of mobile transmitters must not exceed 7 watts. FCC §24.232(b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

2.3. Test procedure : Based on ANSI/TIA 603C: 2004

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position closest to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. 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.
7. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. 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.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
11. In necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which 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.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

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2.4. Test result for RF radiated output power

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

GSM850

Frequency (MHz)	Ant. Pol. (H/V)	S.G level + Amp. (dB m)	Cable loss (dB)	Ant. gain (dB d)	E.R.P.	
					(dB m)	(mW)
824.2	V	39.16	3.42	-11.17	24.57	286.42
824.2	H	44.61	3.42	-11.17	30.02	1004.62
836.6	V	38.49	3.38	-11.47	23.64	231.21
836.6	H	43.37	3.38	-11.47	28.52	711.21
848.8	V	38.54	3.33	-11.76	23.44	220.80
848.8	H	44.60	3.33	-11.76	29.50	891.25

GSM850 (EDGE)

Frequency (MHz)	Ant. Pol. (H/V)	S.G level + Amp. (dB m)	Cable loss (dB)	Ant. gain (dB d)	E.R.P.	
					(dB m)	(mW)
824.2	V	39.24	3.42	-11.17	24.65	213.80
824.2	H	40.01	3.42	-11.17	25.42	389.05

GSM1900

Frequency (MHz)	Ant. Pol. (H/V)	S.G level + Amp. (dB m)	Cable loss (dB)	Ant. gain (dB i)	E.I.R.P.	
					(dB m)	(mW)
1 850.2	V	24.30	4.87	9.12	28.55	716.14
1 850.2	H	23.56	4.87	9.12	27.81	603.95
1 880.0	V	22.69	4.91	9.20	26.98	498.88
1 880.0	H	23.24	4.91	9.20	27.53	566.24
1 909.8	V	25.48	4.94	9.27	29.81	957.19
1 909.8	H	25.26	4.94	9.27	29.59	909.91

GSM1900 (EDGE)

Frequency (MHz)	Ant. Pol. (H/V)	S.G level + Amp. (dB m)	Cable loss (dB)	Ant. gain (dB d)	E.R.P.	
					(dB m)	(mW)
1 909.8	V	21.90	4.94	9.27	26.23	419.76
1 909.8	H	20.62	4.94	9.27	24.95	312.61

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WCDMA1900

Frequency (MHz)	Ant. Pol. (H/V)	S.G level + Amp. (dB m)	Cable loss (dB)	Ant. gain (dB i)	E.I.R.P.	
					(dB m)	(mW)
1 852.4	V	20.07	4.87	9.12	24.32	270.40
1 852.4	H	8.51	4.87	9.12	12.76	18.88
1 880.0	V	17.89	4.91	9.20	22.18	165.20
1 880.0	H	7.93	4.91	9.20	12.22	16.67
1 907.6	V	19.62	4.94	9.27	23.95	248.31
1 907.6	H	11.68	4.94	9.27	16.01	39.90

Remark:

1. $E.R.P. \ \& \ E.I.R.P = [S.G \ level + Amp.](dB \ m) - Cable \ loss(dB) + Ant. \ gain \ (dB \ d/dB \ i)$
2. The E.R.P. & E.I.R.P was measured in three orthogonal EUT position(x-axis, y-axis and z-axis). Worst cases are y-axis.

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2.5. Spurious radiated emission

- Modulation Signal : GSM850
- Measured output Power : 30.02 dB m = 1.005 W
- Distance : 3 meters
- Limit : $-(43 + 10\log_{10}(W)) = -43.02$ dB c

Frequency (MHz)	Ant. Pol. (H/V)	S.G level (dB m)	Cable loss (dB)	Ant. gain (dB d)	E.R.P (dB m)	dB c	Margin (dB)
Low Channel (824.2 MHz)							
1 648.40	V	-50.89	4.54	6.44	-48.99	-79.01	35.99
1 648.40	H	-49.53	4.54	6.44	-47.63	-77.65	34.63
Middle Channel (836.6 MHz)							
1 673.20	V	-50.91	4.58	6.51	-48.98	-79.00	35.98
1 673.20	H	-49.20	4.58	6.51	-47.27	-77.29	34.27
High Channel (848.8 MHz)							
1 697.60	V	-51.63	4.62	6.57	-49.68	-79.70	36.68
1 697.60	H	-57.14	4.62	6.57	-55.19	-85.21	42.19

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- Modulation Signal : GSM1900
- Measured output Power : 29.81 dB m = 0.957 W
- Distance : 3 meters
- Limit : $-(43 + 10\log_{10}(W)) = -44.21$ dB c

Frequency (MHz)	Ant. Pol. (H/V)	S.G level (dB m)	Cable loss (dB)	Ant. gain (dB i)	E.I.R.P (dB m)	dB c	Margin (dB)
Low Channel(1 850.2 MHz)							
3 700.40	V	-49.07	7.13	11.85	-44.35	-74.16	31.35
3 700.40	H	-41.50	7.13	11.85	-36.78	-66.59	23.78
Middle Channel(1 880.0 MHz)							
3 760.00	V	-48.35	7.23	11.85	-43.74	-73.55	30.74
3 760.00	H	-43.85	7.23	11.85	-39.24	-69.05	26.24
High Channel(1 909.8 MHz)							
3 819.60	V	-47.21	7.33	11.84	-42.70	-72.51	29.70
3 819.60	H	-47.37	7.33	11.84	-42.86	-72.67	29.86

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- Modulation Signal : WCDMA1900
- Measured output Power : 24.32 dB m = 0.270 W
- Distance : 3 meters
- Limit : $-(43 + 10\log_{10}(W)) = -37.31$ dB c

Frequency (MHz)	Ant. Pol. (H/V)	S.G level (dB m)	Cable loss (dB)	Ant. gain (dB i)	E.I.R.P (dB m)	dB c	Margin (dB)
Low Channel(1 852.40 MHz)							
3 704.80	V	-47.19	7.14	9.70	-44.63	-68.95	31.63
3 704.80	H	-44.07	7.14	9.70	-41.51	-65.83	28.51
Middle Channel(1 880.0 MHz)							
3 760.00	V	-44.62	7.23	9.70	-42.16	-66.48	29.16
3 760.00	H	-45.27	7.23	9.70	-42.81	-67.13	29.81
High Channel(1 907.60 MHz)							
3 815.20	V	-42.35	7.33	9.69	-39.98	-64.30	26.98
3 815.20	H	-45.83	7.33	9.69	-43.46	-67.78	30.46

Remark:

1. $E.R.P. \ \& \ E.I.R.P = S.G \ level \ (dB \ m) - Cable \ loss \ (dB) + Ant. \ gain \ (dB \ d/dB \ i)$
2. No more harmonic above 3rd harmonic for all channel.

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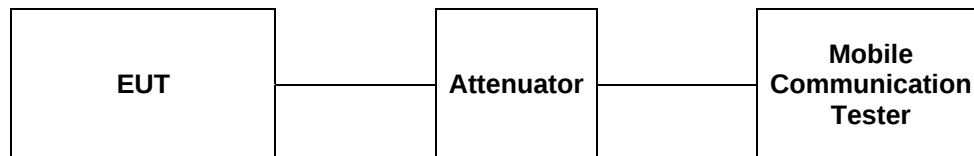
3. Conducted Output Power

3.1. Limit

Requirements: CFR 47, Section §2.1046

3.2. Test Procedure

1. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. The mobile was set up for the max. output power with pseudo random data modulation.
3. The power was measured with



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3.3. Test Result

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

Band	Frequency (MHz)	Voice GSM (dBm)	GPRS Data			
			GPRS 1 TX Slot (dBm)	GPRS 2 TX Slot (dBm)	GPRS 3 TX Slot (dBm)	GPRS 4 TX Slot (dBm)
GSM 850	824.2	33.06	33.06	30.97	30.00	29.03
	836.6	33.04	33.05	30.97	29.99	29.02
	848.8	33.05	33.04	30.94	29.98	29.03
GSM 1900	1850.2	29.99	29.99	28.51	27.50	26.56
	1880.0	30.10	30.11	28.62	27.61	26.64
	1909.8	29.98	29.97	28.46	27.47	26.52

Band	Frequency (MHz)	EDGE Data			
		EDGE 1 TX Slot (dBm)	EDGE 2 TX Slot (dBm)	EDGE 3 TX Slot (dBm)	EDGE 4 TX Slot (dBm)
GSM 850	824.2	27.07	26.57	25.64	24.57
	836.6	27.09	26.59	25.56	24.61
	848.8	27.07	26.62	25.58	24.56
GSM 1900	1850.2	26.10	25.59	24.63	23.59
	1880.0	26.17	25.62	24.68	23.66
	1909.8	26.13	25.57	24.66	23.68

3GPP Release version	Mode	3GPP 34.121	PCS Band[dBm]		
		Sutest	9262	9400	9538
99	WCDMA	12.2kbps RMC	23.20	23.52	23.36
5	HSDPA	Sutest1	23.36	23.49	23.35
5		Sutest2	23.19	23.43	23.28
5		Sutest3	22.82	23.01	22.72
5		Sutest4	22.68	22.99	22.79
6	HSUPA	Sutest1	22.91	22.96	22.77
6		Sutest2	21.29	21.50	21.68
6		Sutest3	22.03	22.10	21.90
6		Sutest4	21.74	21.77	21.70
6		Sutest5	22.66	22.63	23.01

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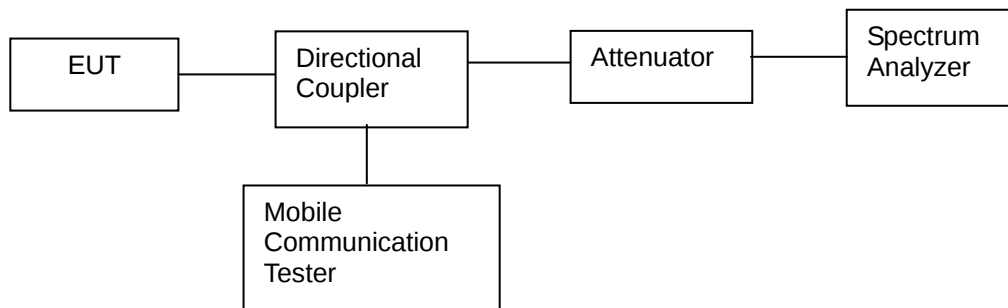
4. Occupied Bandwidth 99 %

4.1. Limit

Requirements: CFR 47, Section §2.1049.

4.2. Test Procedure

1. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. The resolution bandwidth of the spectrum analyzer was set.
Occupied Bandwidth 99 % was tested under



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4.3 Test Results

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

Band	Mode	Frequency (MHz)	Occupied Bandwidth (MHz)
GSM850	GMSK	824.2	0.243
		836.6	0.245
		848.8	0.245
	EDGE	836.6	0.233
GSM1900	GSM	1850.2	0.246
		1880.0	0.245
		1909.8	0.246
	EDGE	1880.0	0.243
WCDMA1900	Voice	1852.4	4.18
		1880.0	4.18
		1907.6	4.19

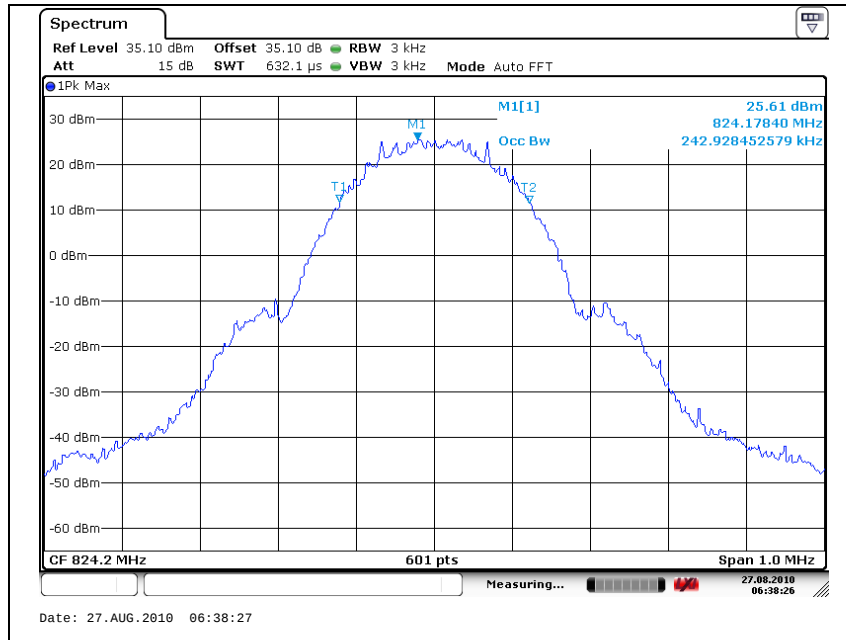
Please refer to the following plots.

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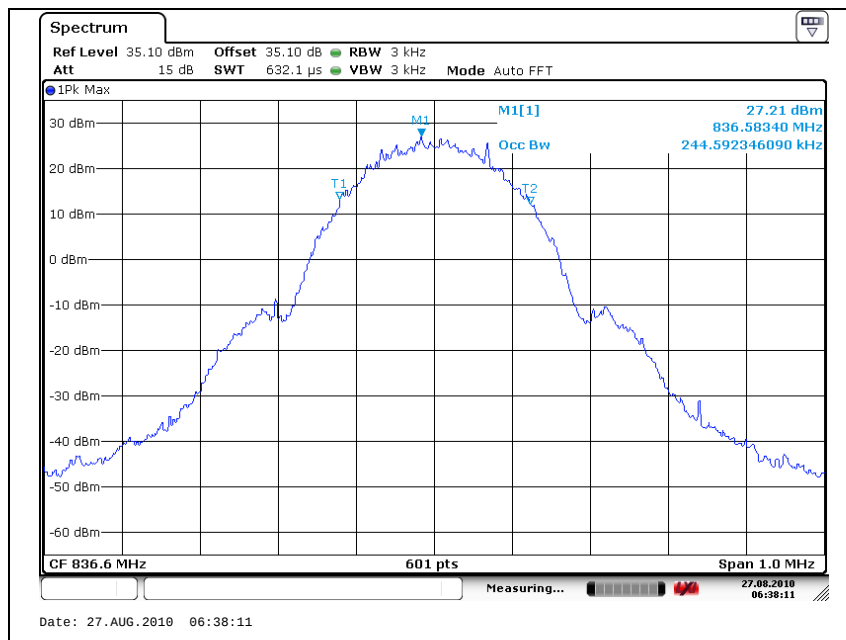
GSM850

99 %

Low Channel

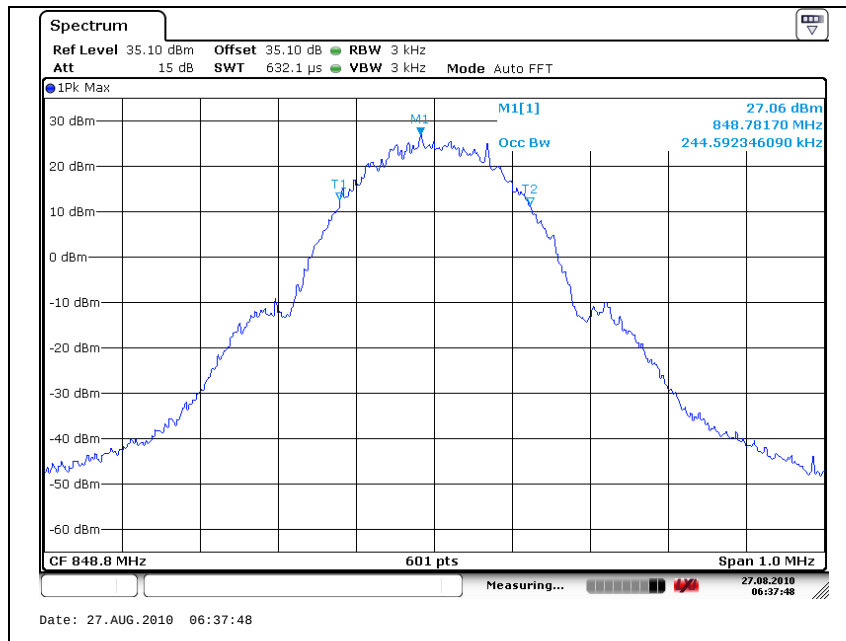


Middle Channel

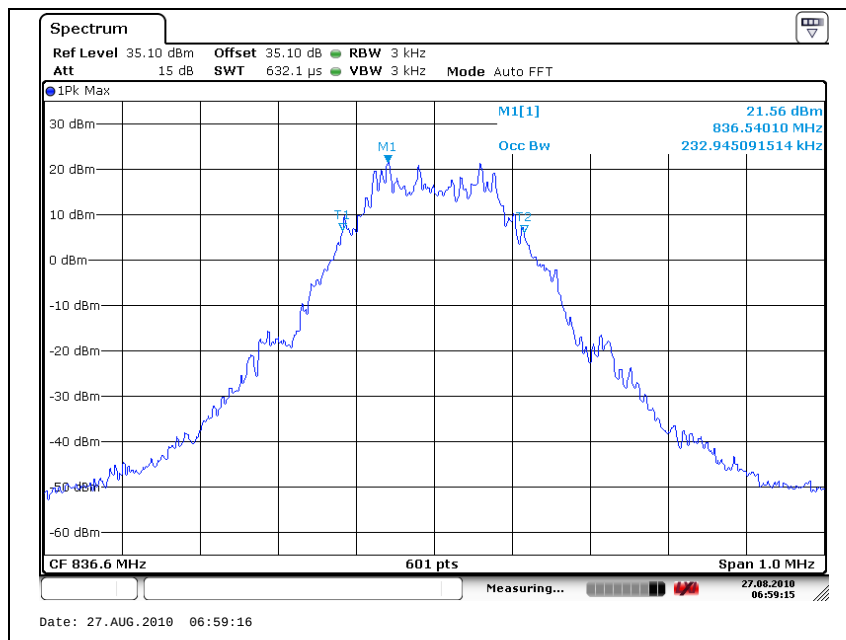


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High Channel



GSM850 EDGE 99 % Middle Channel

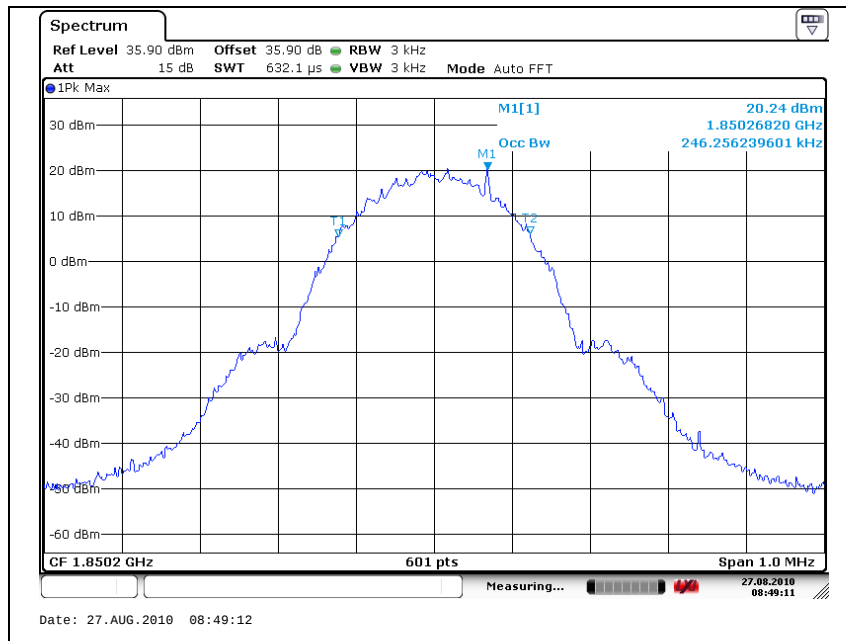


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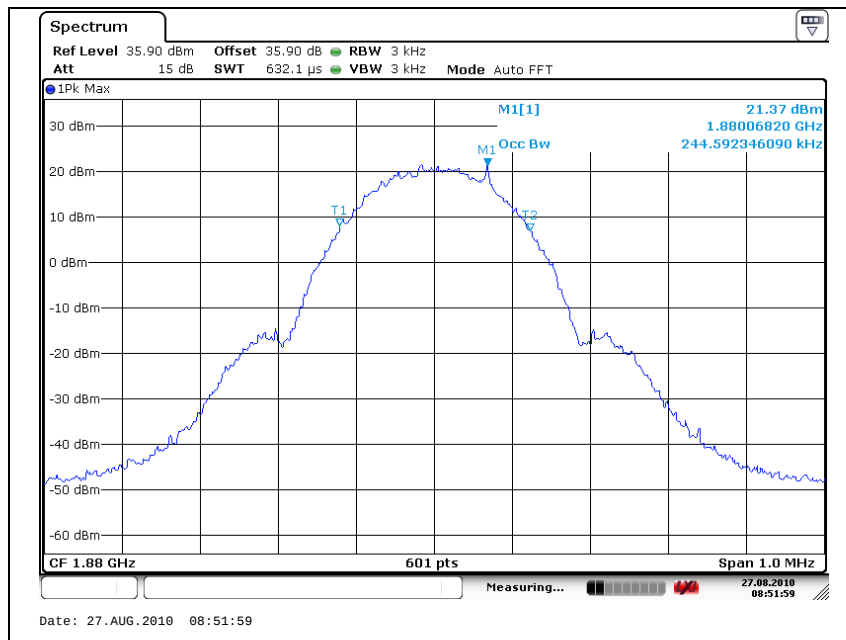
GSM1900

99 %

Low Channel

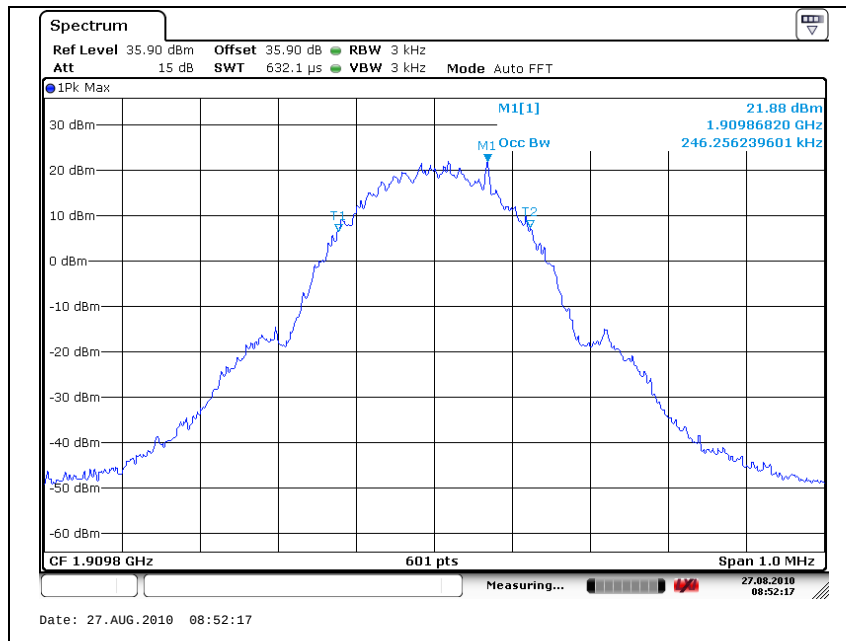


Middle Channel



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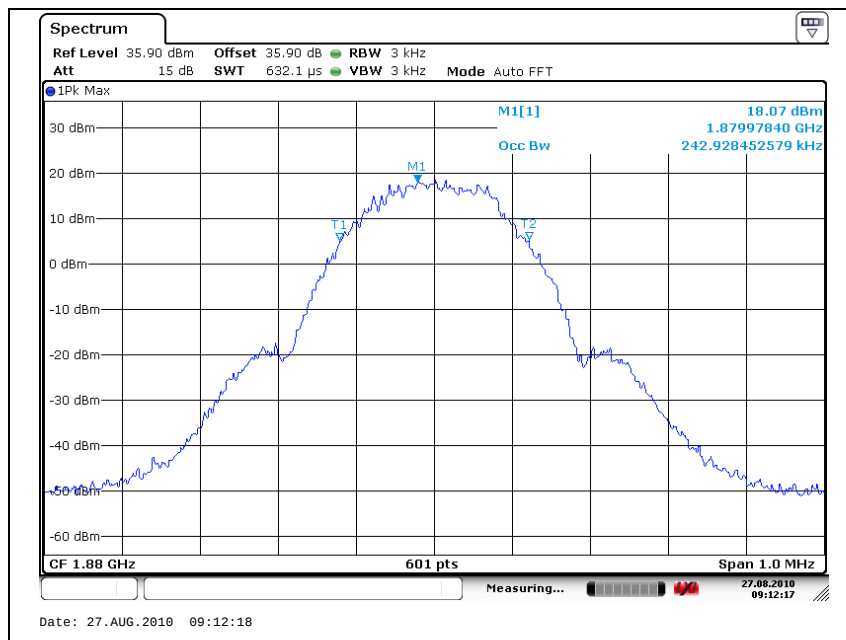
High Channel



GSM1900 EDGE

99 %

Middle Channel

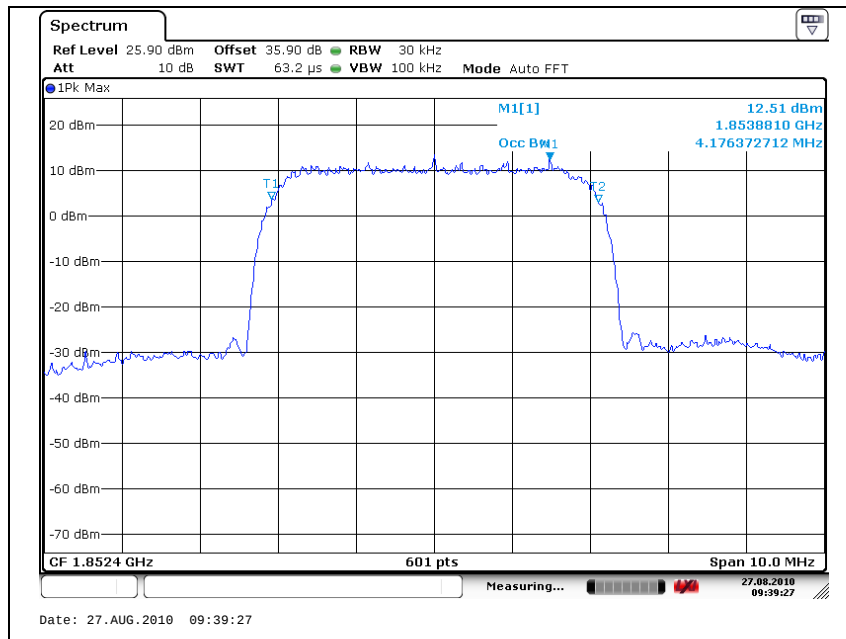


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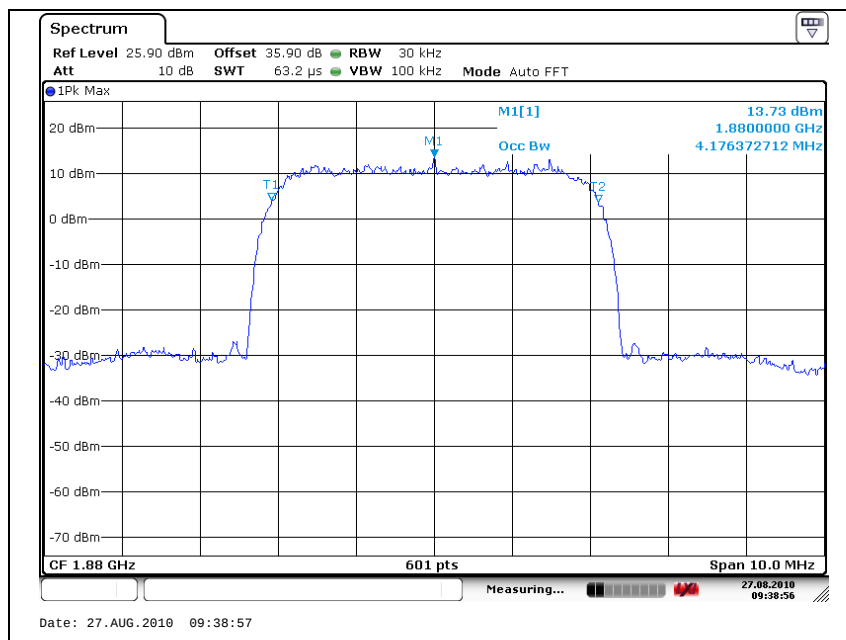
WCDMA1900

99 %

Low Channel

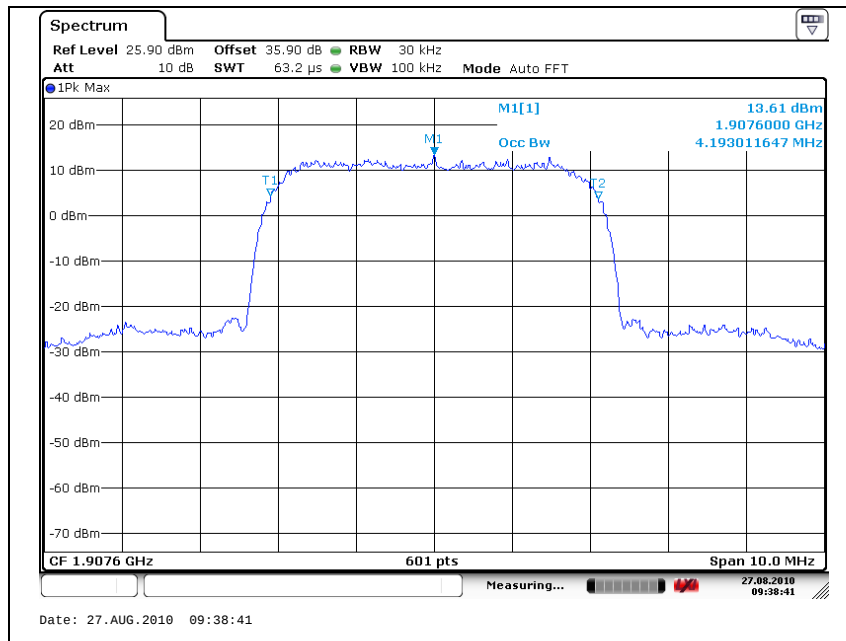


Middle Channel



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High Channel



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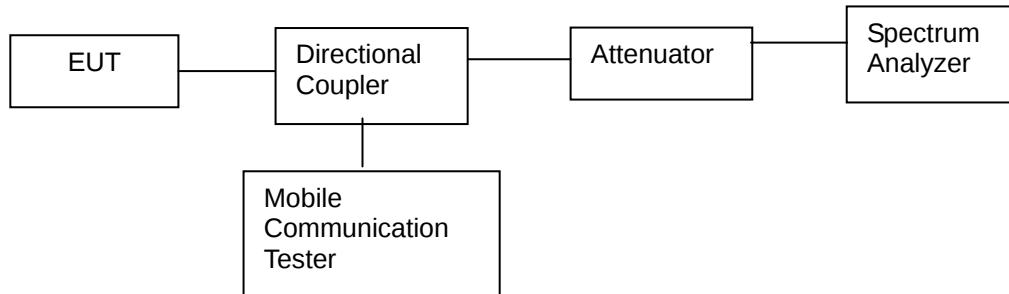
5. Spurious Emissions at Antenna Terminal

5.1. Limit

§ 22.917(e) and §24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency must be attenuated below the transmitting (P) by a factor of at least $43 + 10\log(P)$ dB.

5.2. Test Procedure

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set at 1 MHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.
3. Spurious Emission was tested under



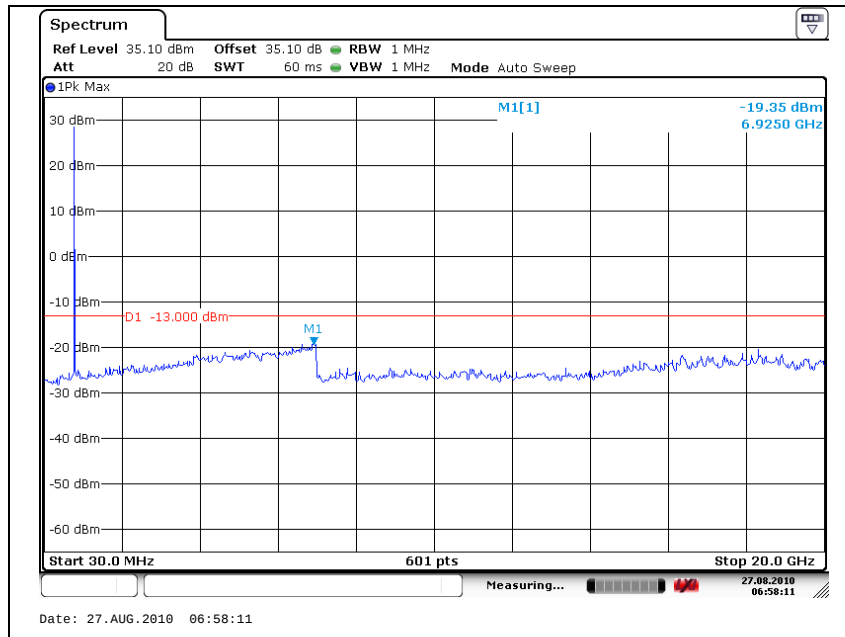
5.3. Test Results

Ambient temperature : $(24 \pm 2) ^\circ\text{C}$
 Relative humidity : 47 % R.H.

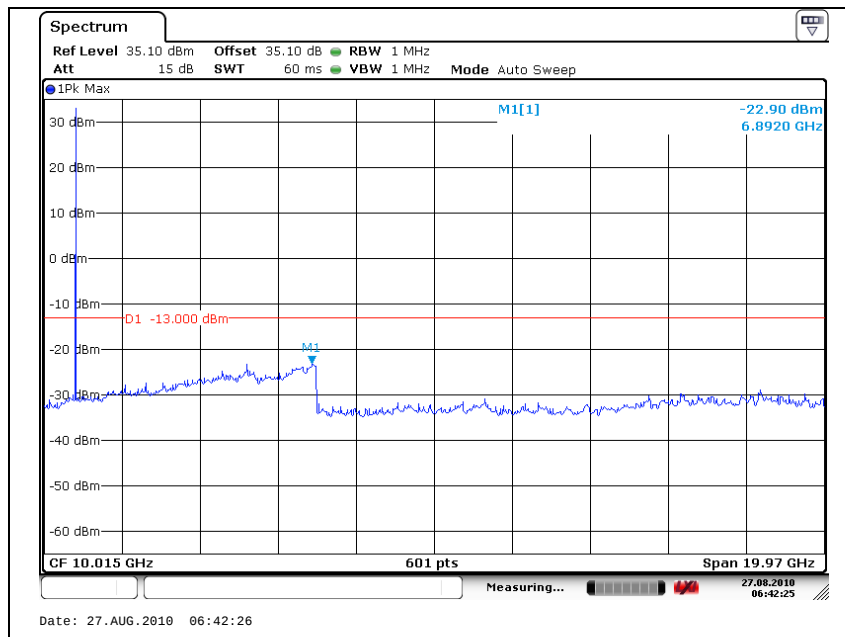
Please refer to the following plots.

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GSM850 Low Channel

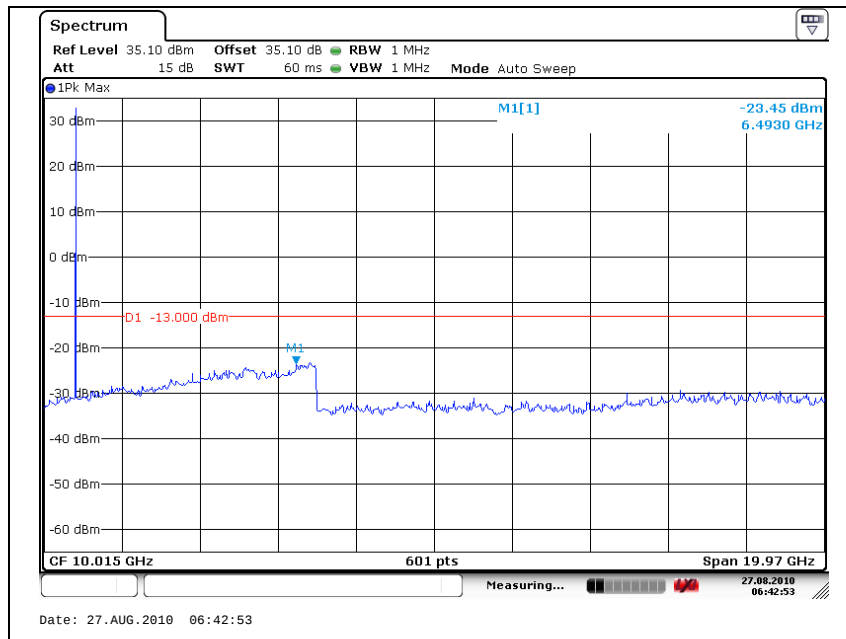


Middle Channel

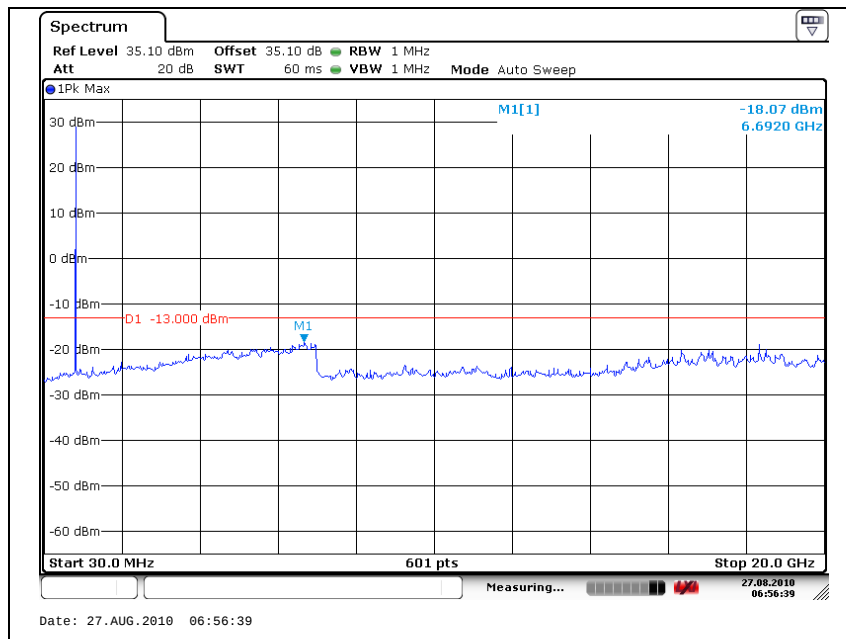


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High Channel

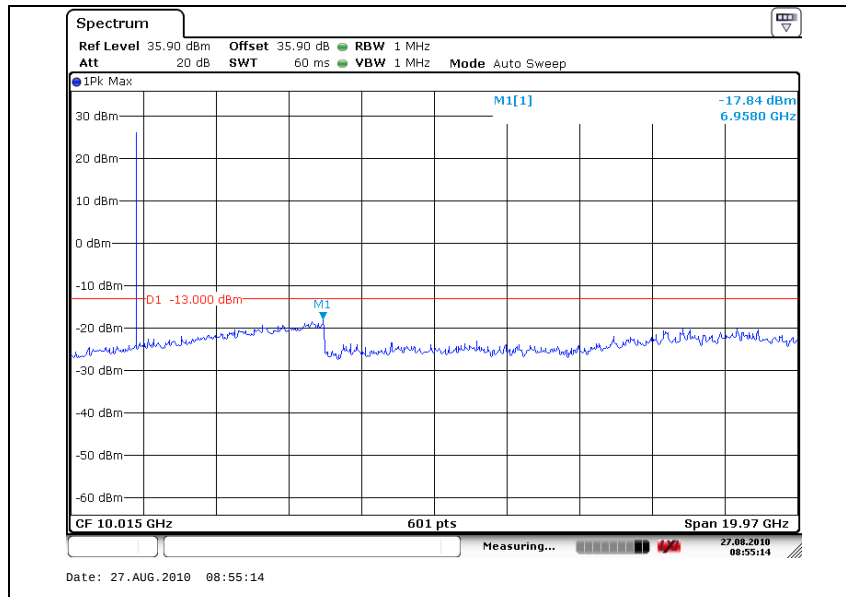


GSM850 EDGE Middle Channel

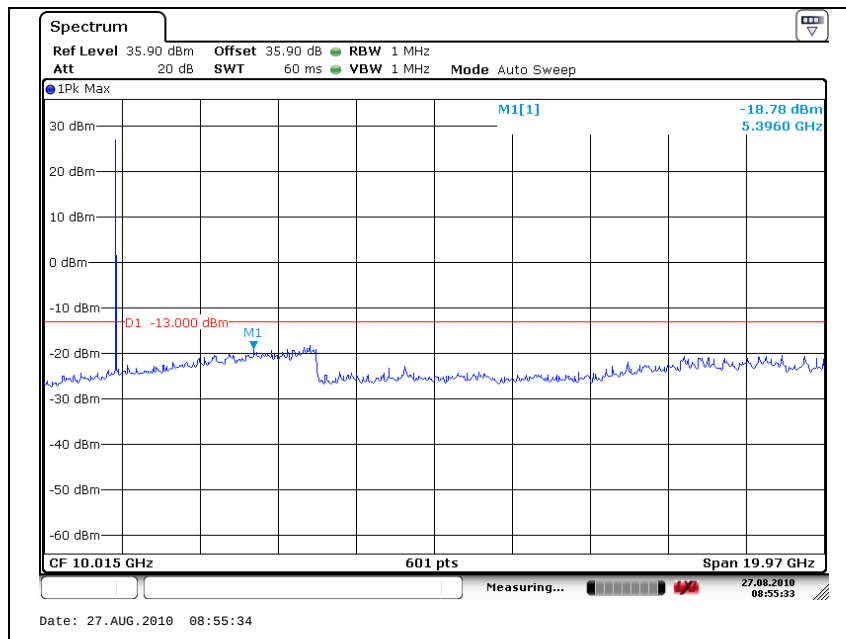


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GSM1900 Low Channel

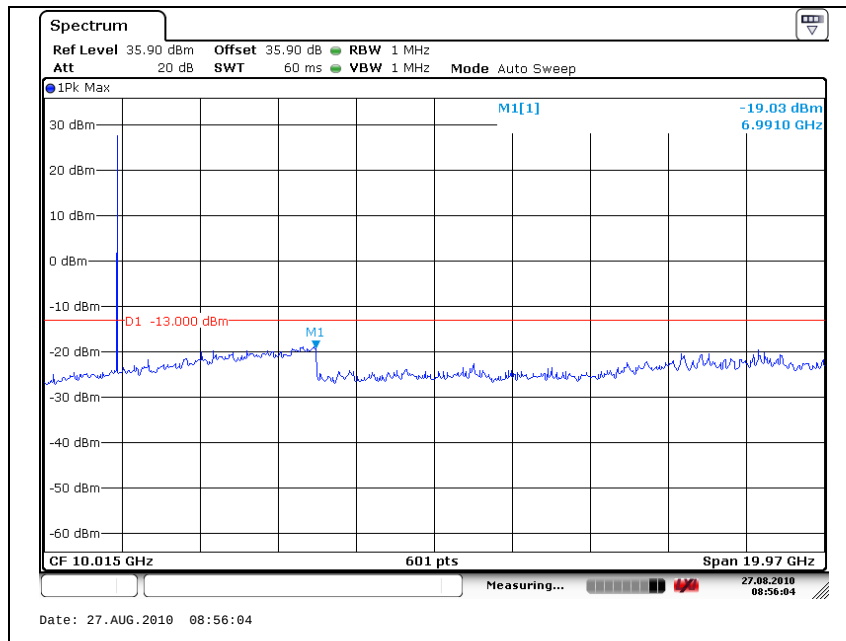


Middle Channel

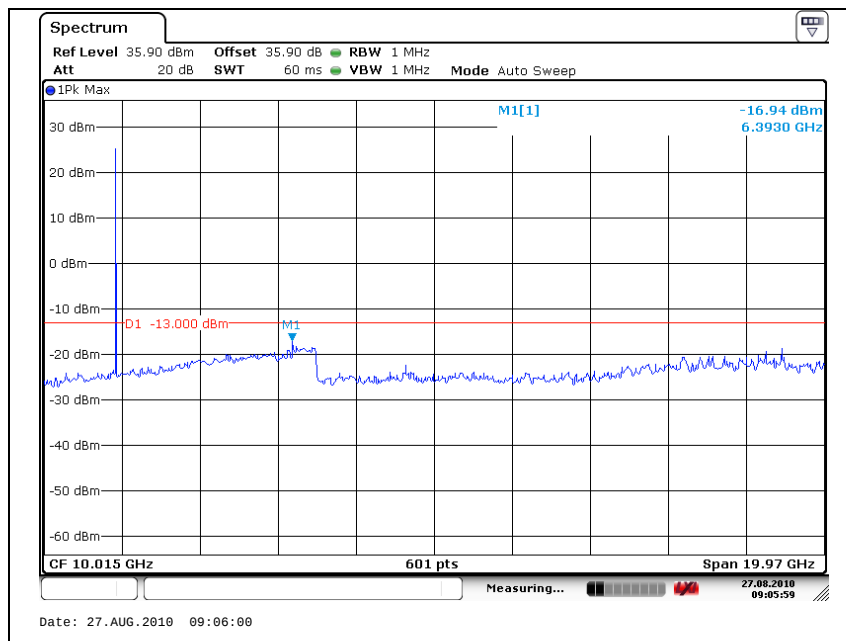


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High Channel

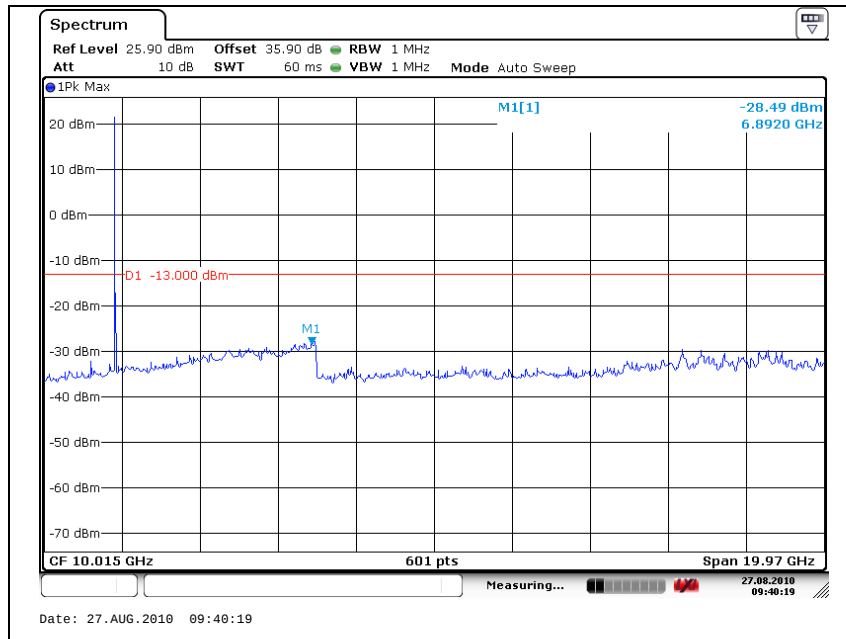


EDGE1900 Middle Channel

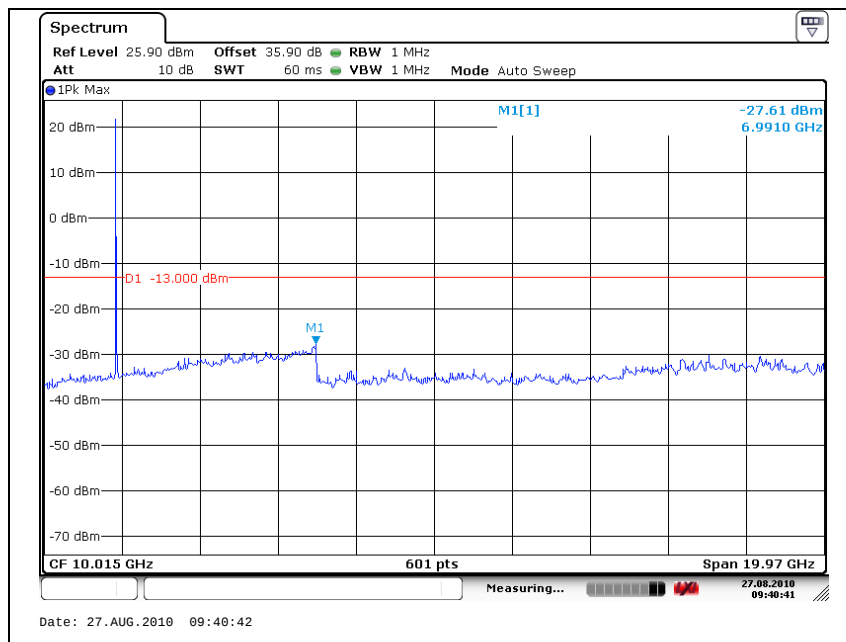


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WCDMA1900 Low Channel

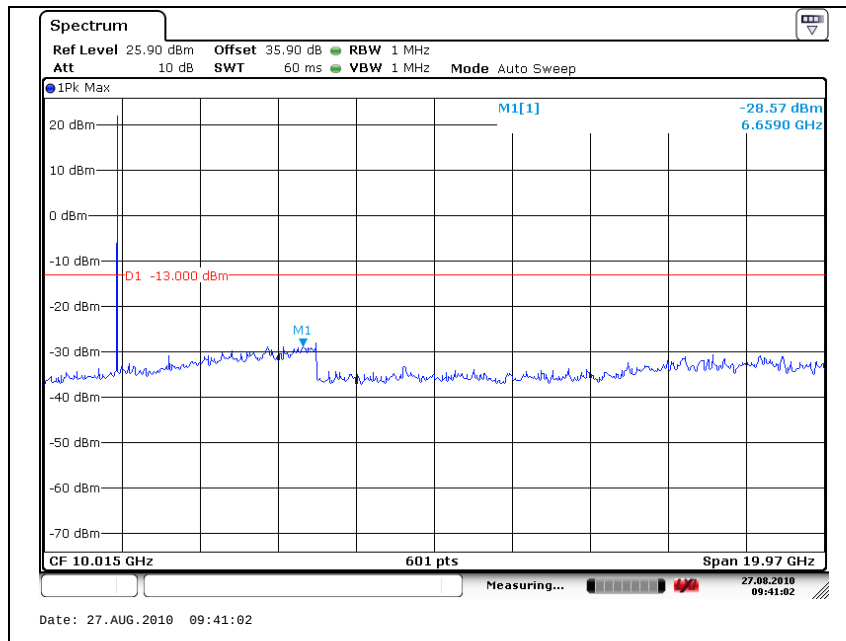


Middle Channel



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High Channel



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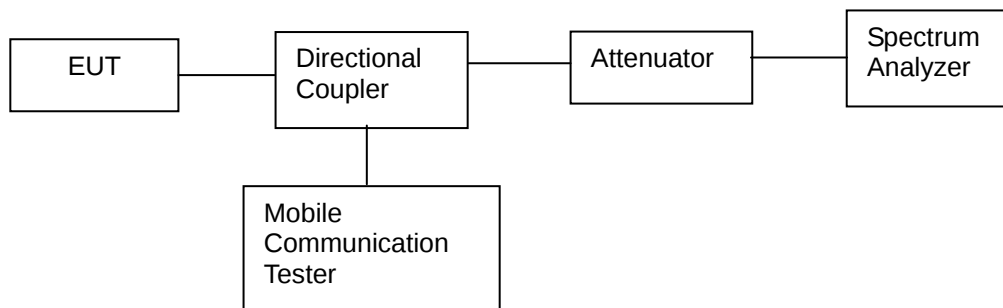
6. Band Edge

6.1. Limit

§ 22.917(e) and §24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency must be attenuated below the transmitting (P) by a factor of at least $43+10\log(P)$ dB.

6.2. Test Procedure

1. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. The center of the spectrum analyzer was set to block edge frequency.



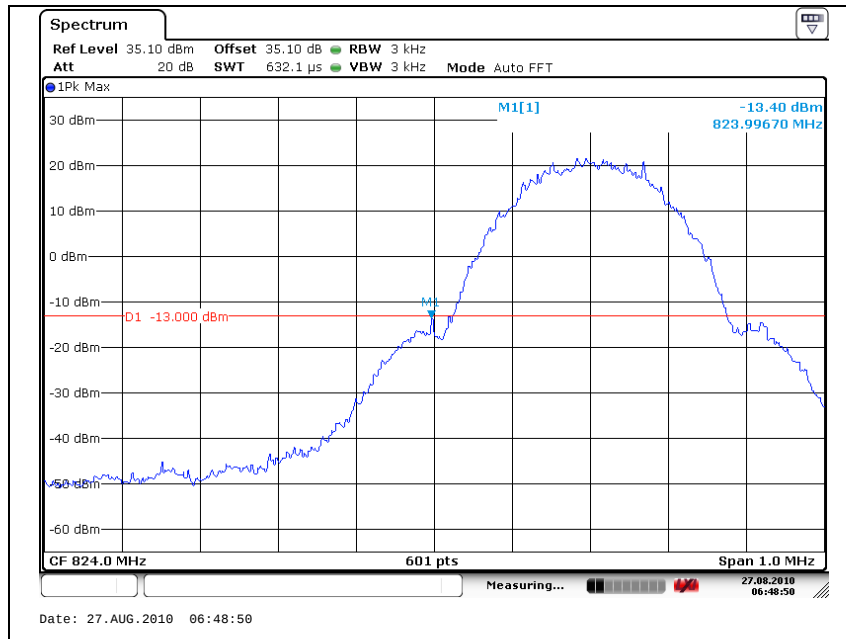
6.3. Test Results

Ambient temperature : $(24 \pm 2) ^\circ\text{C}$
Relative humidity : 47 % R.H.

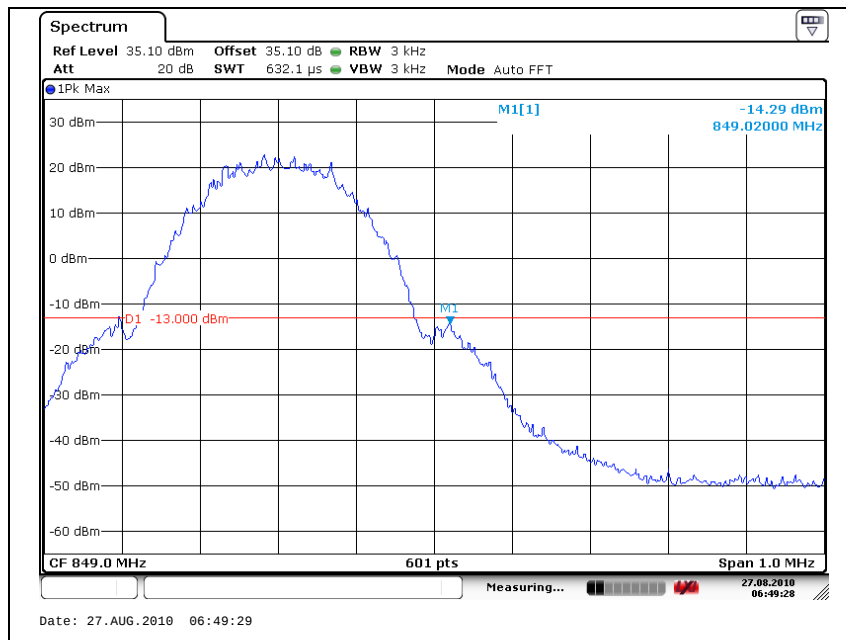
Please refer to the following plots.

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GSM850 Low Channel

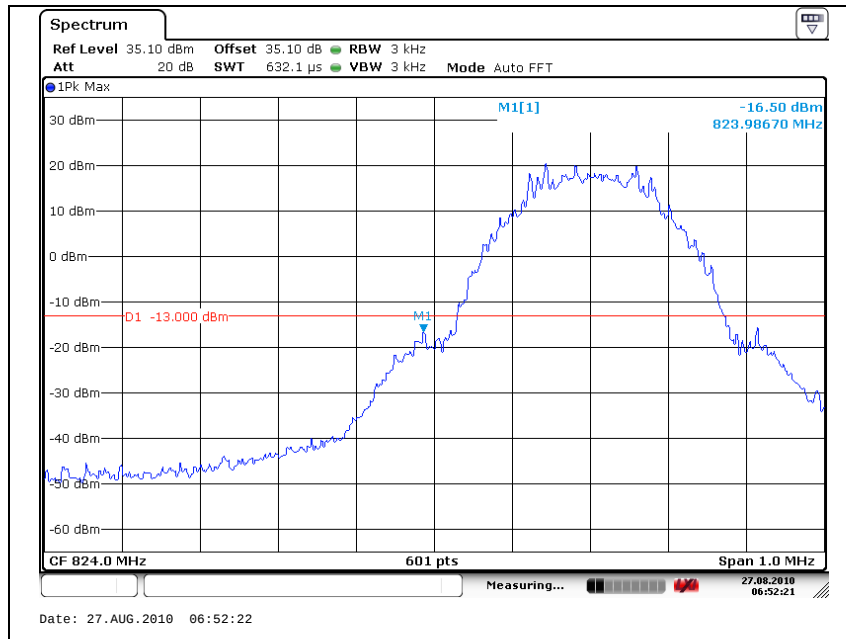


High Channel

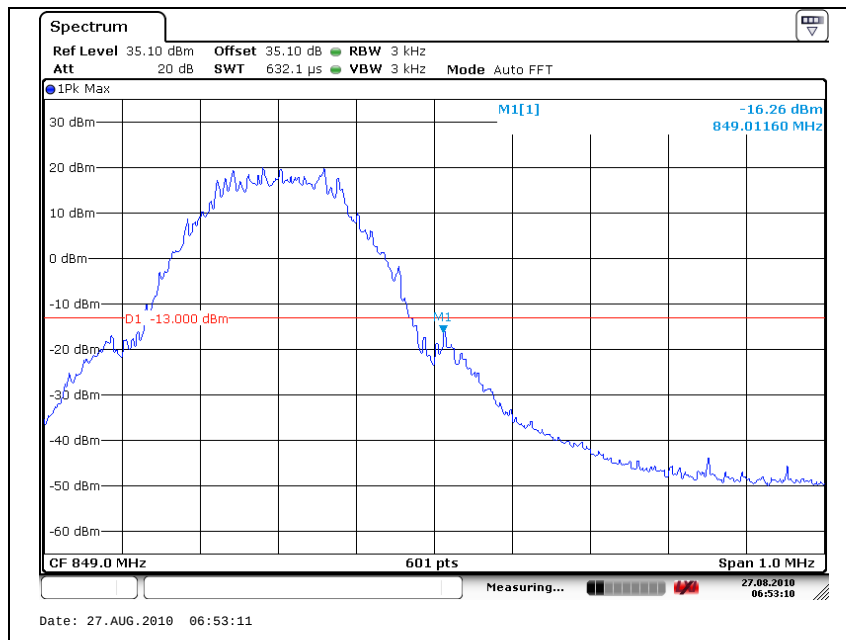


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GSM850 EDGE Low Channel

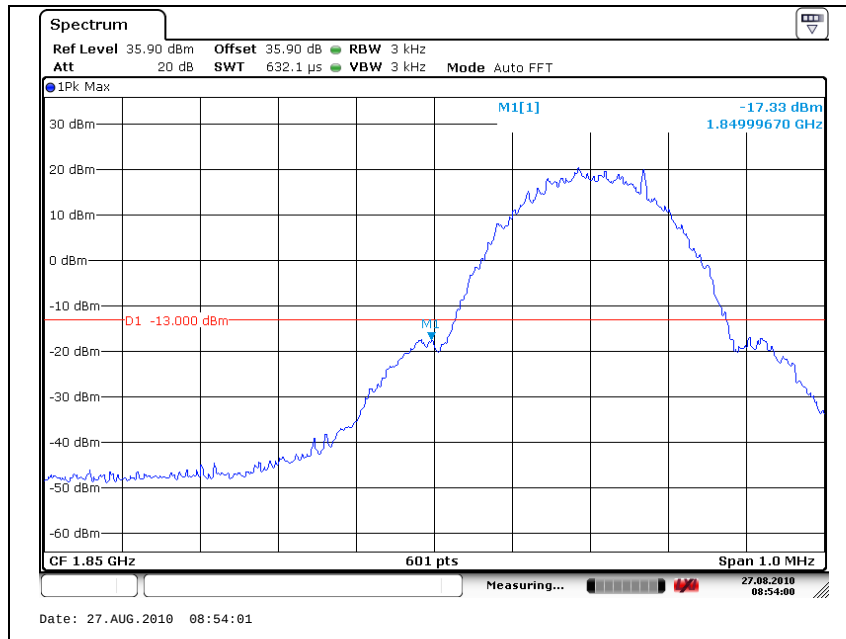


High Channel

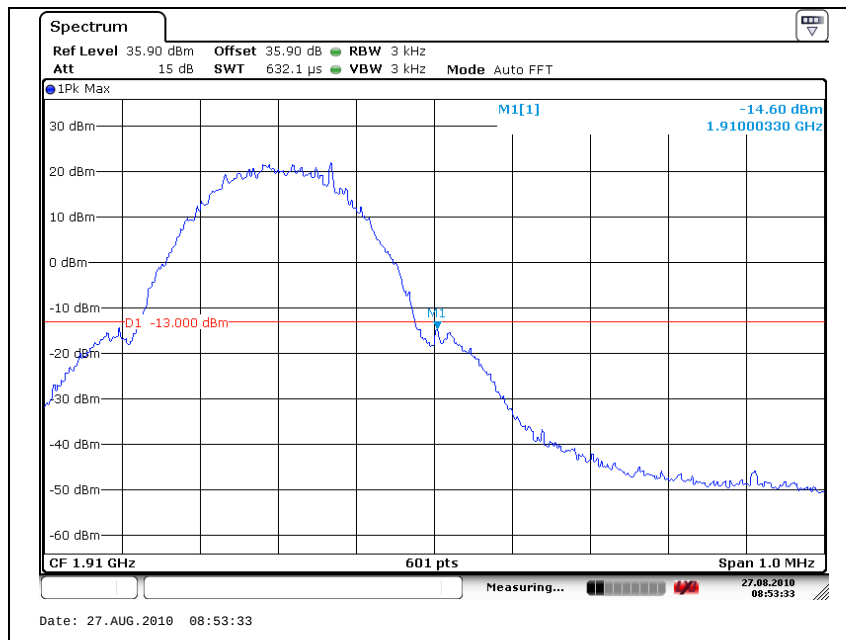


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GSM1900 Low Channel

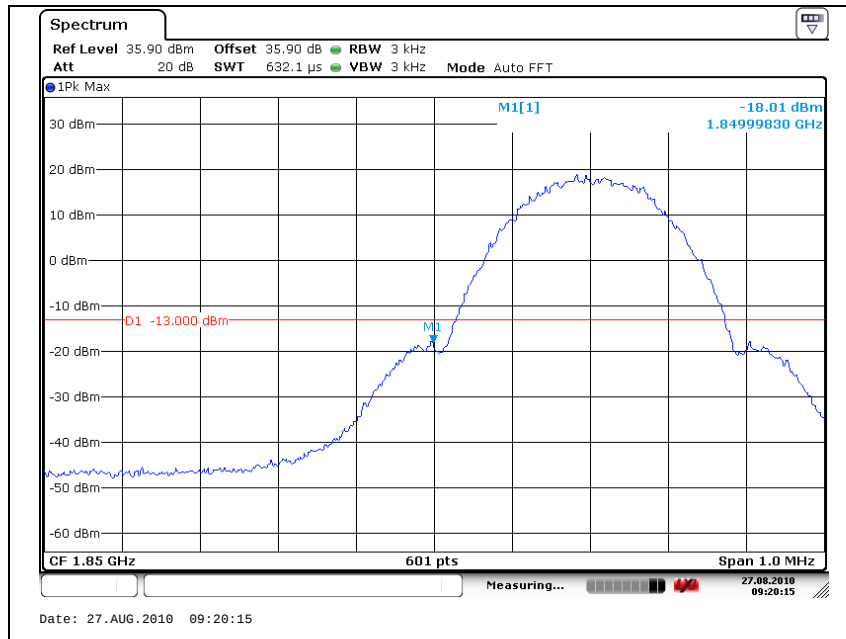


High Channel

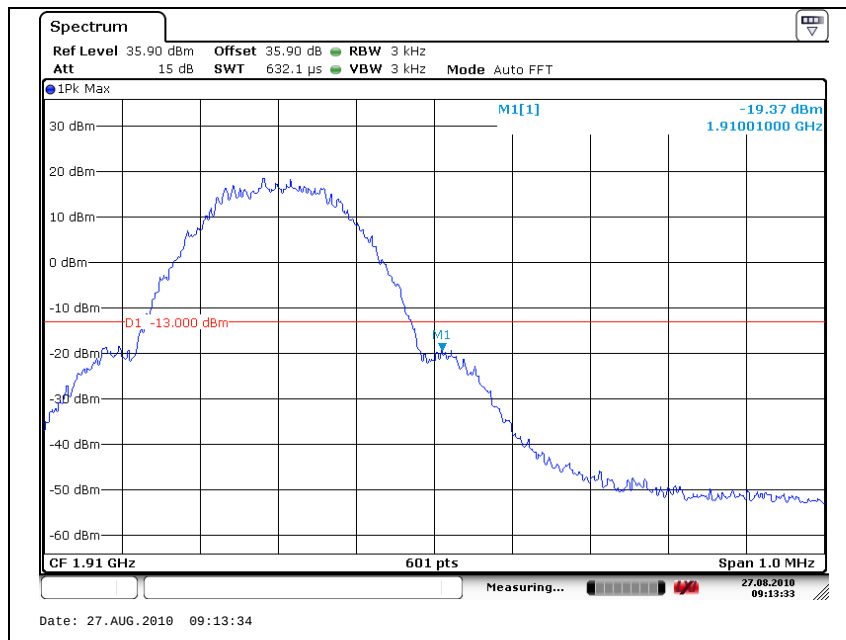


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GSM1900 EDGE Low Channel

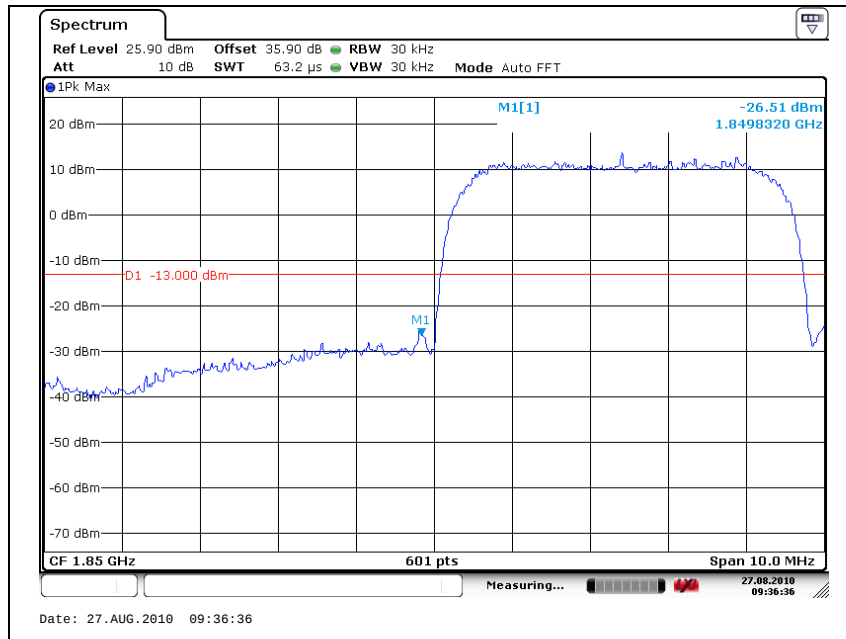


High Channel

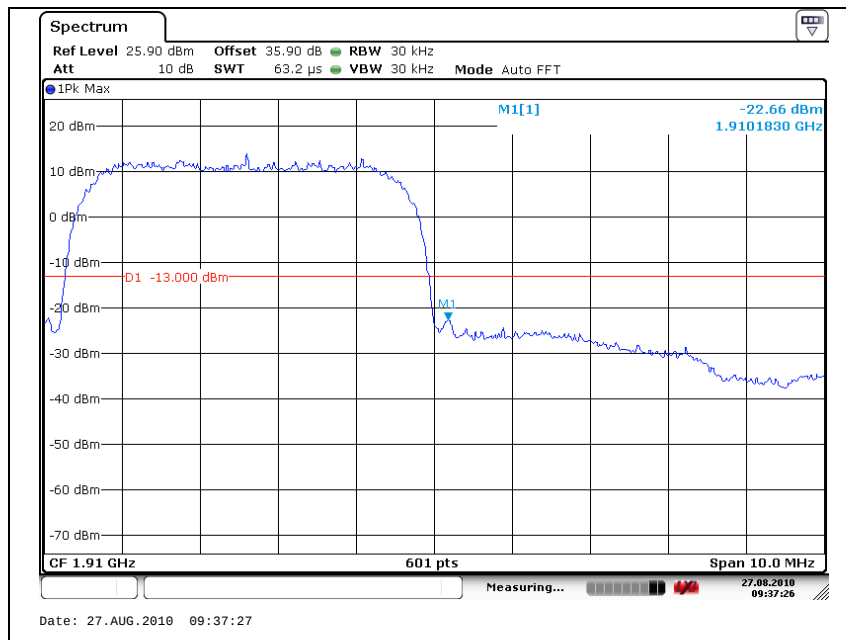


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WCDMA1900 Low Channel



High Channel



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7. Frequency Stability

7.1. Limit

Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

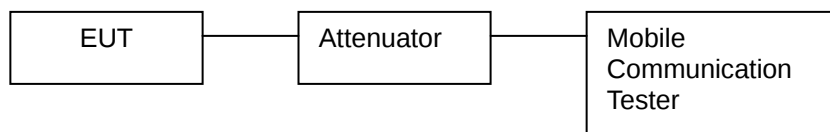
According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table of this section.

For Mobile devices operating in the 824 to 849 MHz band at a power level less than or equal to 3 Watts, the limit specified in Table C-1 is ± 2.5 ppm.

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

7.2. Test Procedure

1. Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators.
2. The EUT was placed inside the temperature chamber.
3. After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.



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7.3. Test Results

Ambient temperature : (24 ± 2) °C
Relative humidity : 47 % R.H.

GSM850 mode at middle channel

Reference Frequency: 836.6 MHz, Limit: 2.5 ppm			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.7	-79	-0.094
40		-82	-0.098
30		-60	-0.072
24		-88	-0.105
10		-65	-0.078
0		-68	-0.081
-10		-78	-0.093
-20		-76	-0.091
-30		-85	-0.102
Frequency Stability versus power Supply			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
24	4.255	-86	-0.103
	2.70 (batt. End point)	-70	-0.084

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GSM1900 mode at middle channel

Reference Frequency: 1880.0 MHz, Limit: 2.5 ppm			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.7	-67	-0.036
40		-66	-0.035
30		-88	-0.047
24		-75	-0.040
10		-61	-0.032
0		-66	-0.035
-10		-78	-0.041
-20		-77	-0.041
-30		-61	-0.032
Frequency Stability versus power Supply			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
24	4.255	-68	-0.036
	2.70 (batt. End point)	-69	-0.037

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WCDMA1900 mode at middle channel

Reference Frequency: 1880.0 MHz, Limit: 2.5 ppm			
Frequency Stability versus Temperature			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
50	3.7	-88	-0.047
40		-60	-0.032
30		-74	-0.039
24		-67	-0.036
10		-81	-0.043
0		-84	-0.045
-10		-78	-0.041
-20		-90	-0.048
-30		-82	-0.044
Frequency Stability versus power Supply			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapse	
		Frequency Error (Hz)	ppm
24	4.255	-65	-0.035
	2.70 (batt. End point)	-63	-0.034

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