



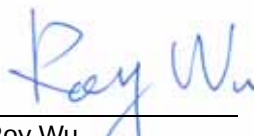
FCC/IC TEST REPORT

for

47 CFR Part 22H, 24E, IC RSS-132, and IC RSS-133

Equipment : Expedite module
Trade Name : Novatel Wireless Expedite EU860D
Model No. : Expedite EU860D
FCC ID : NBZNRM-EU860D
IC ID : 3229A-EU860D
Tx Frequency Range : GSM850 : 824~849 MHz
PCS1900 : 1850~1910 MHz
WCDMA Band V : 824~849 MHz
WCDMA Band II : 1850~1910 MHz
Max. ERP/EIRP Power : GSM850(GSM) : 0.76 W
GSM850(EDGE) : 0.24 W
PCS1900(GSM) : 0.79 W
PCS1900(EDGE) : 0.38 W
WCDMA Band V : 0.13 W
WCDMA Band V (HSDPA) : 0.12 W
WCDMA Band II : 0.25 W
WCDMA Band II (HSDPA) : 0.26 W
Emission Designator : GSM : 300KGXW
EDGE : 300KG7W
WCDMA : 4M20F9W
Applicant : **Novatel Wireless, Inc.**
9645 Scranton Road, Suite 205, San Diego, CA 92121, U.S.A.

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- The data shown in this test report were carried out on Jan. 12, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG710513, Report Version: Rev. 01.


Roy Wu
Deputy Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.



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History of this test report

Report Issue Date: Jan. 17, 2007

Report No.	Description



1. General Information

1.1. Applicant

Novatel Wireless, Inc.

9645 Scranton Road, Suite 205, San Diego, CA 92121, U.S.A.

1.2 Manufacturer

Novatel Wireless, Inc.

9645 Scranton Road, Suite 205, San Diego, CA 92121, U.S.A.

1.3 Basic Description of Equipment under Test

Equipment : Expedite module
Trade Name : Novatel Wireless Expedite EU860D
Model No. : Expedite EU860D
FCC ID : NBZNRM-EU860D
IC ID : 3229A-EU860D
Power Supply Type : Switching
DC Power Cable : AC 120V, Wall-mount, 1.6m, 2 pin



1.4 Feature of Equipment under Test

DUT Type :	Expedite module
Trade Name :	Novatel Wireless Expedite EU860D
Model Name :	Expedite EU860D
FCC ID :	NBZNRM-EU860D
IC ID :	3229A-EU860D
Tx Frequency :	GSM850 : 824 ~ 849 MHz PCS1900 : 1850 ~ 1910 MHz WCDMA Band V : 824 ~ 849 MHz WCDMA Band II : 1850 ~ 1910 MHz
Rx Frequency :	GSM850 : 869 ~ 894 MHz PCS1900 : 1930 ~ 1990 MHz WCDMA Band V : 869 ~ 894 MHz WCDMA Band II : 1930 ~ 1990 MHz
Maximum Output Power to Antenna :	GSM850(GSM) : 32.04 dBm GSM850(EDGE) : 28.7 dBm PCS1900(GSM) : 28.88 dBm PCS1900(EDGE) : 25.2 dBm WCDMA Band V : 24.18 dBm WCDMA Band V (HSDPA) : 23.9 dBm WCDMA Band II : 24.57 dBm WCDMA Band II (HSDPA) : 24.21 dBm
Maximum ERP/EIRP :	GSM850(GSM) : 0.76 W (28.83 dBm) GSM850(EDGE) : 0.24 W (23.78 dBm) PCS1900(GSM) : 0.79 W (28.96 dBm) PCS1900(EDGE) : 0.38 W (25.82 dBm) WCDMA Band V : 0.13 W (20.99 dBm) WCDMA Band V (HSDPA) : 0.12 W (20.82 dBm) WCDMA Band II : 0.25 W (23.91 dBm) WCDMA Band II (HSDPA) : 0.26 W (24.19 dBm)
Antenna Type :	Fixed External
Type of Antenna Connector :	SMA
HW Version :	Rev. 1
SW Version :	10.7.00.01-01
Power Rating (DC/AC , Voltage and Current of RF element or PA) :	DC 3.3 V / 2000 mA
Digital Modulation Emission :	GSM : GMSK EDGE : 8PSK WCDMA / HSDPA : QPSK
Type of Emission :	GSM : 300KGXW EDGE : 300KG7W WCDMA : 4M20F9W
Device Power Class :	GSM850 : 4 PCS1900 : 1 WCDMA Band V : 3 WCDMA Band II : 3
DUT Stage :	Identical Prototype



1.5 Report Date

EUT Received : Jan. 05, 2007

Report Date : Jan. 17, 2007

2 Test Configuration of Equipment under Test

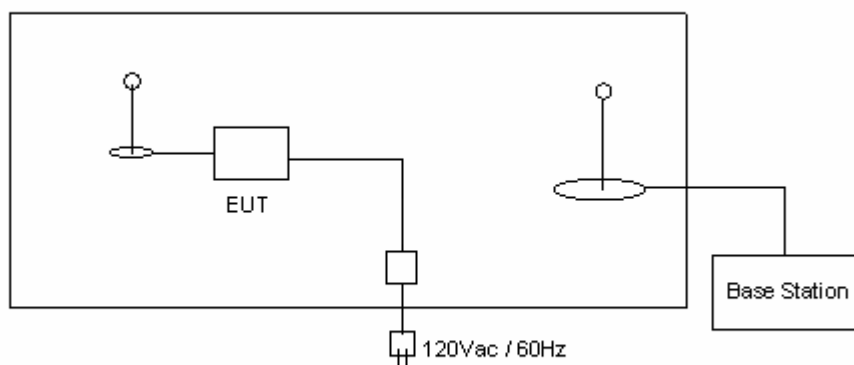
2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850 and WCDMA Band V; 30MHz to 19000 MHz for PCS1900 and WCDMA Band II.

2.2 Test Mode

Application	GSM850	PCS1900	WCDMA Band V	WCDMA Band II
Radiated Emission	☒ Mode 1: GSM Link	☒ Mode 3: GSM Link	☒ Mode 5: WCDMA Link	☒ Mode 7: WCDMA Link
	☒ Mode 2: EDGE Link	☒ Mode 4: EDGE Link	☒ Mode 6: HSDPA Link	☒ Mode 8: HSDPA Link
Conducted Measurement	☒ Mode 1: GSM Link	☒ Mode 3: GSM Link	☒ Mode 5: WCDMA Link	☒ Mode 7: WCDMA Link
	☒ Mode 2: EDGE Link	☒ Mode 4: EDGE Link	☒ Mode 6: HSDPA Link	☒ Mode 8: HSDPA Link

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Model No.	Serial No.
1.	Base Station(R&S)	CMU200	106656



3. General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055
Test Site No : 03CH06-HY

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC.

3.1 Test Voltage

AC 120V

3.2 Test in Compliance with

47 CFR Part 22H, 24E, Part 2, IC RSS-132 Issued 2 and RSS-133 Issued 3

3.3 Frequency Range Investigated

- a. Radiation: from 30MHz to 9000MHz for GSM850 and WCDMA Band V.
- b. Radiation: from 30 MHz to 19000 MHz for PCS and WCDMA Band II.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4. Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	IC Rule	DESCRIPTION OF TEST	Result	Section
§2.1046	RSS-132 §4.4 RSS-133 §6.4	RF Output Power	Passed	4.2
§ 22.913 §24.232	RSS-132 §4.4 RSS-133 §6.4	ERP / EIRP	Passed	4.3
§2.1049, § 22.917, § 24.238(b)	RSS-132 §4.5 RSS-133 §6.5	Occupied Bandwidth & Band Edge Measurement	Passed	4.4
§2.1051	RSS-132 §4.5 RSS-133 §6.5	Conducted Emission	Passed	4.5
§2.1053	RSS-132 §4.5 RSS-133 §6.5	Field Strength of Spurious Radiation	Passed	4.6
§2.1055, § 22.355, §24.235	RSS-132 §4.3 RSS-133 §6.3	Frequency Stability vs. Temperature	Passed	4.7
§2.1055, §22.355, §24.235	RSS-132 §4.3 RSS-133 §6.3	Frequency Stability vs. Voltage	Passed	4.8

4.2 RF Output Power

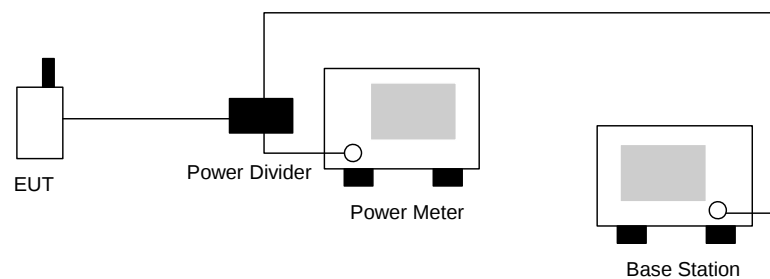
4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

4.2.2 Test Procedure :

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT at PCL=5 for GSM850 and/or PCL=0 for PCS1900 and WCDMA maximum power through base station.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout :



4.2.4 Test Result :

Bands	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
GSM850 (GSM)	128	824.2 (Low)	31.92	1.556
	189	836.4 (Mid)	32.00	1.585
	251	848.8 (High)	32.04	1.600
GSM850 (EDGE12)	128	824.2 (Low)	28.40	0.692
	189	836.4 (Mid)	28.60	0.724
	251	848.8 (High)	28.70	0.741
PCS1900 (GSM)	512	1850.2 (Low)	28.84	0.766
	661	1880.0 (Mid)	28.88	0.773
	810	1909.8 (High)	28.85	0.767
PCS1900 (EDGE12)	512	1850.2 (Low)	25.20	0.331
	661	1880.0 (Mid)	25.10	0.324
	810	1909.8 (High)	25.20	0.331
WCDMA Band V	4132	826.4 (Low)	23.80	0.240
	4182	836.4 (Mid)	23.85	0.243
	4233	846.6 (High)	24.18	0.262
WCDMA Band V (HSDPA)	4132	826.4 (Low)	23.60	0.229
	4182	836.4 (Mid)	22.77	0.189
	4233	846.6 (High)	23.90	0.245
WCDMA Band II	9262	1852.4 (Low)	24.57	0.286
	9400	1880.0 (Mid)	24.46	0.279
	9538	1907.6 (High)	24.03	0.253
WCDMA Band II (HSDPA)	9262	1852.4 (Low)	24.21	0.264
	9400	1880.0 (Mid)	23.89	0.245
	9538	1907.6 (High)	23.73	0.236



4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was placed on a rotatable table with 1.0 meter height in an fully anechoic chamber.
2. The EUT was set 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 also kept at 1.0M height.
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.

$E_t = R_t + AF$

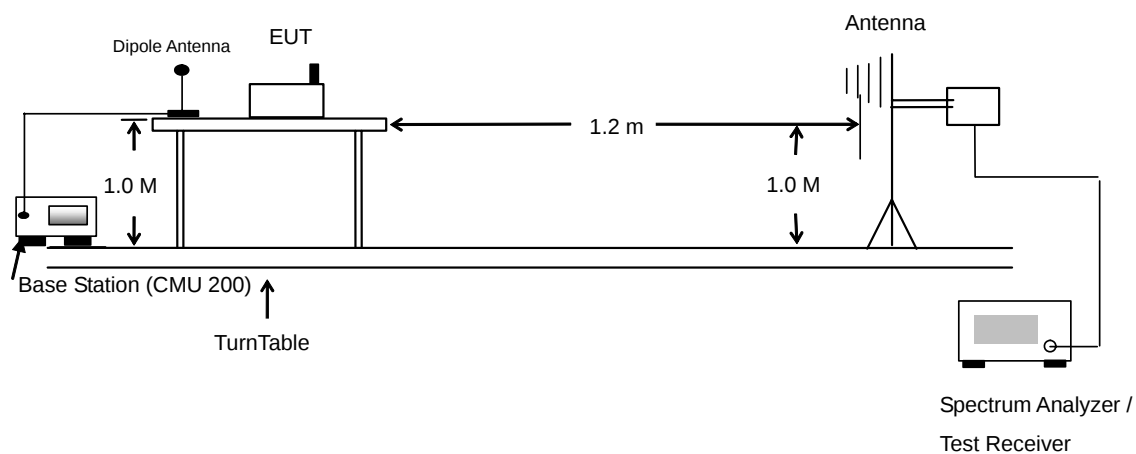
$E_s = R_s + AF$

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.

4.3.3 Test Setup Layout of ERP/EIRP





4.3.4 Test Result

GSM850 (GSM) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-18.63	-48.12	0.00	-1.08	28.41	0.69
836.40	-18.52	-48.28	0.00	-0.93	28.83	0.76
848.80	-18.90	-48.35	0.00	-0.76	28.69	0.74
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-26.69	-47.97	0.00	-1.08	20.20	0.10
836.40	-26.15	-48.01	0.00	-0.93	20.93	0.12
848.80	-25.72	-48.05	0.00	-0.76	21.57	0.14

GSM850 (EDGE) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-24.21	-48.12	0.00	-1.08	22.83	0.19
836.40	-23.57	-48.28	0.00	-0.93	23.78	0.24
848.80	-24.10	-48.35	0.00	-0.76	23.49	0.22
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.20	-32.45	-47.97	0.00	-1.08	14.44	0.03
836.40	-31.03	-48.01	0.00	-0.93	16.05	0.04
848.80	-32.31	-48.05	0.00	-0.76	14.98	0.03



PCS1900 (GSM) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-25.31	-51.88	0.00	1.96	28.53	0.71
1880.00	-26.22	-52.99	0.00	2.00	28.77	0.75
1909.80	-27.30	-54.28	0.00	1.98	28.96	0.79
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-42.71	-52.13	0.00	1.96	11.38	0.01
1880.00	-42.89	-53.17	0.00	2.00	12.28	0.02
1909.80	-42.61	-54.13	0.00	1.98	13.50	0.02

PCS1900 (EDGE) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-28.79	-51.88	0.00	1.96	25.05	0.32
1880.00	-29.86	-52.99	0.00	2.00	25.13	0.33
1909.80	-30.44	-54.28	0.00	1.98	25.82	0.38
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1850.20	-46.13	-52.13	0.00	1.96	7.96	0.01
1880.00	-46.71	-53.17	0.00	2.00	8.46	0.01
1909.80	-48.92	-54.13	0.00	1.98	7.19	0.01

WCDMA Band V Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-27.30	-48.12	0.00	-1.08	19.74	0.09
836.40	-27.30	-48.28	0.00	-0.93	20.05	0.10
846.60	-26.60	-48.35	0.00	-0.76	20.99	0.13
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-37.11	-47.97	0.00	-1.08	9.78	0.01
836.40	-36.17	-48.01	0.00	-0.93	10.91	0.01
846.60	-34.61	-48.05	0.00	-0.76	12.68	0.02

WCDMA Band V (HSDPA) Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-27.67	-48.12	0.00	-1.08	19.22	0.08
836.40	-26.26	-48.28	0.00	-0.93	20.82	0.12
846.60	-27.31	-48.35	0.00	-0.76	19.98	0.10
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-36.68	-47.97	0.00	-1.08	10.36	0.01
836.40	-35.95	-48.01	0.00	-0.93	11.40	0.01
846.60	-35.59	-48.05	0.00	-0.76	12.00	0.02



WCDMA Band II Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-29.93	-51.88	0.00	1.96	23.91	0.25
1880.00	-31.45	-52.99	0.00	2.00	23.54	0.23
1907.60	-32.49	-54.28	0.00	1.98	23.77	0.24
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-48.26	-52.13	0.00	1.96	5.83	0.00
1880.00	-47.48	-53.17	0.00	2.00	7.69	0.01
1907.60	-49.61	-54.13	0.00	1.98	6.50	0.00

WCDMA Band II (HSDPA) Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-29.90	-51.88	0.00	1.96	24.19	0.26
1880.00	-31.45	-52.99	0.00	2.00	23.72	0.24
1907.60	-32.21	-54.28	0.00	1.98	23.90	0.25
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-47.15	-52.13	0.00	1.96	6.69	0.00
1880.00	-47.47	-53.17	0.00	2.00	7.52	0.01
1907.60	-48.24	-54.13	0.00	1.98	8.02	0.01

4.4 Occupied Bandwidth and Band Edge Measurement

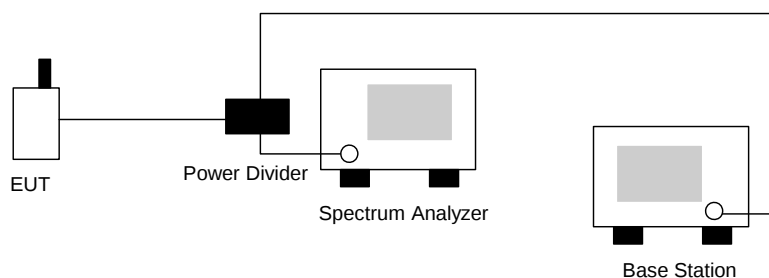
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 99% occupied bandwidth of middle channel for the highest and lowest RF powers were measured.
3. The bandedge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.

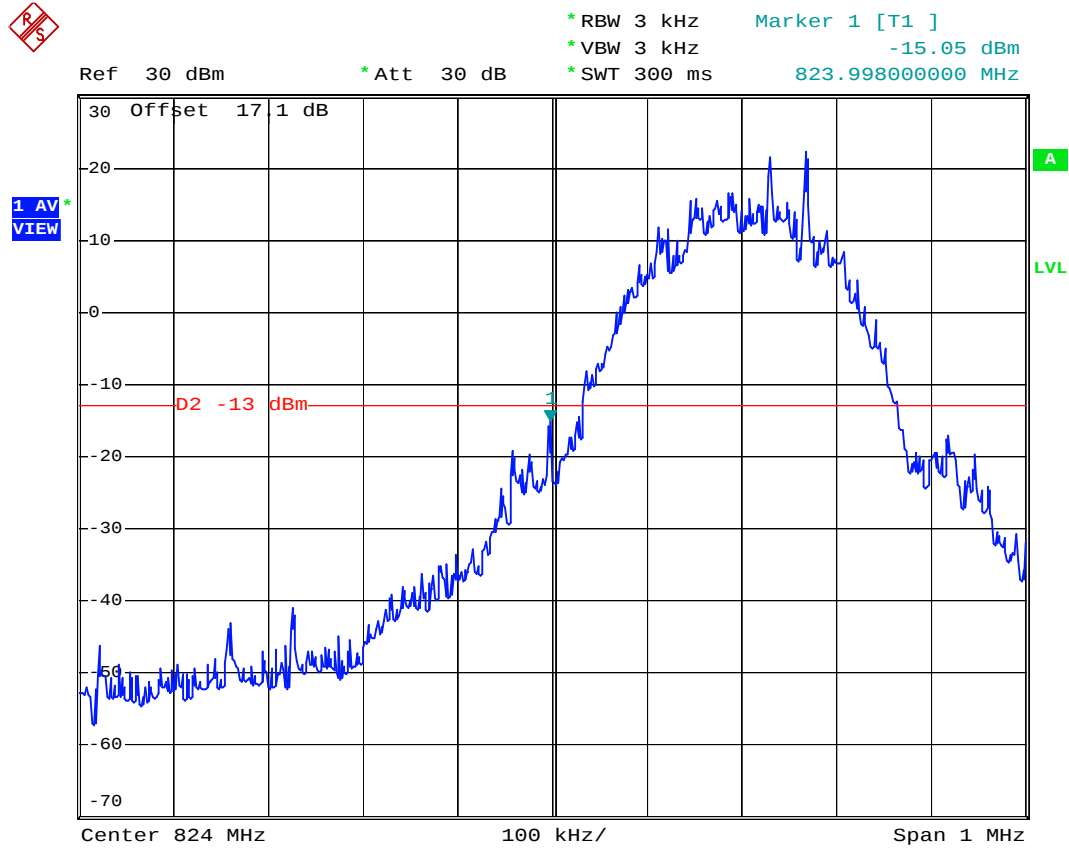
4.4.3 Test Setup Layout





4.4.4 Test Result

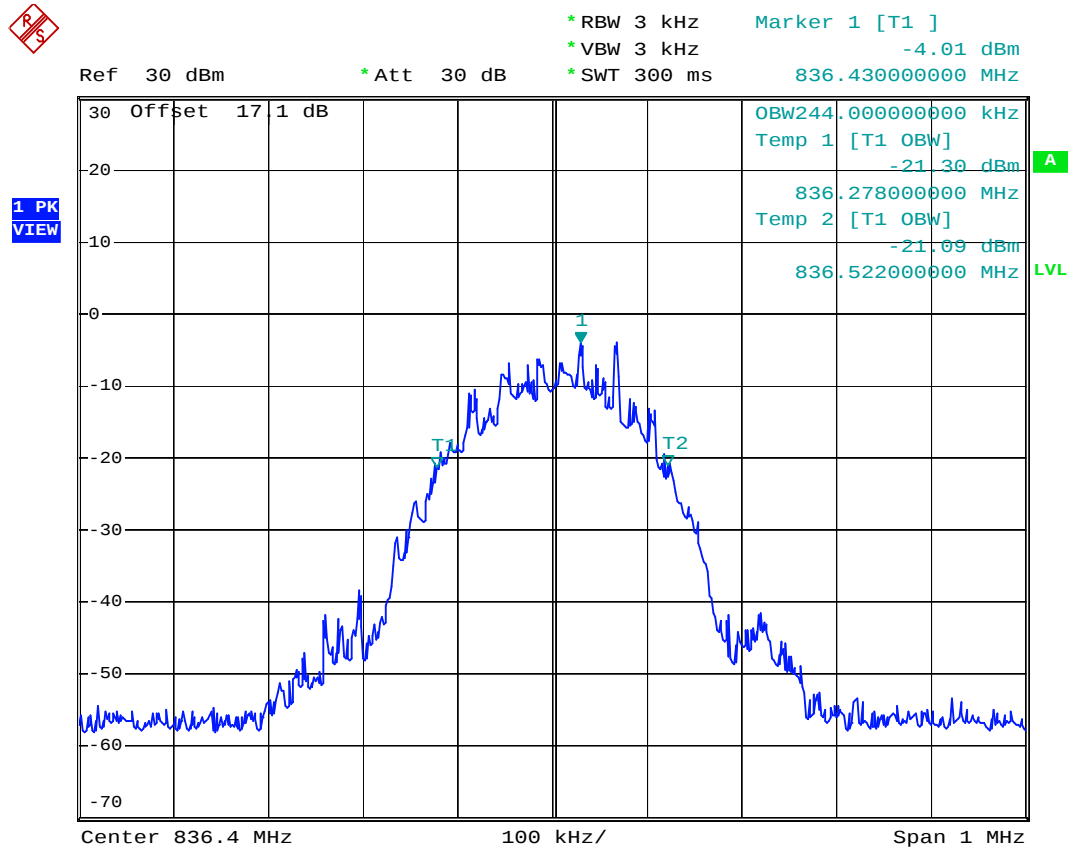
- Mode 1
- Test Mode : GSM850 (GSM) CH128 Lower Band Edge
- Power State : High



Date: 6.JAN.2007 10:26:50



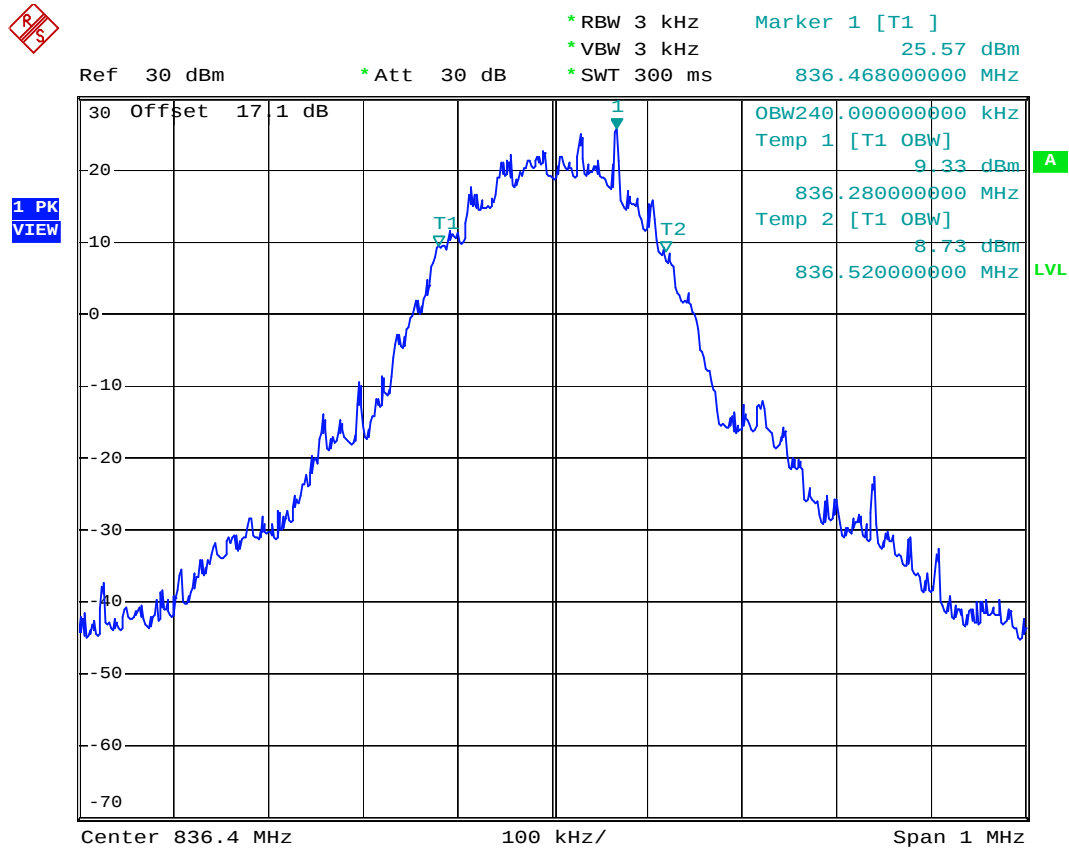
- Test Mode : GSM850 (GSM) CH189 99% Occupied Bandwidth
- Power State : Low



Date: 6.JAN.2007 10:23:18



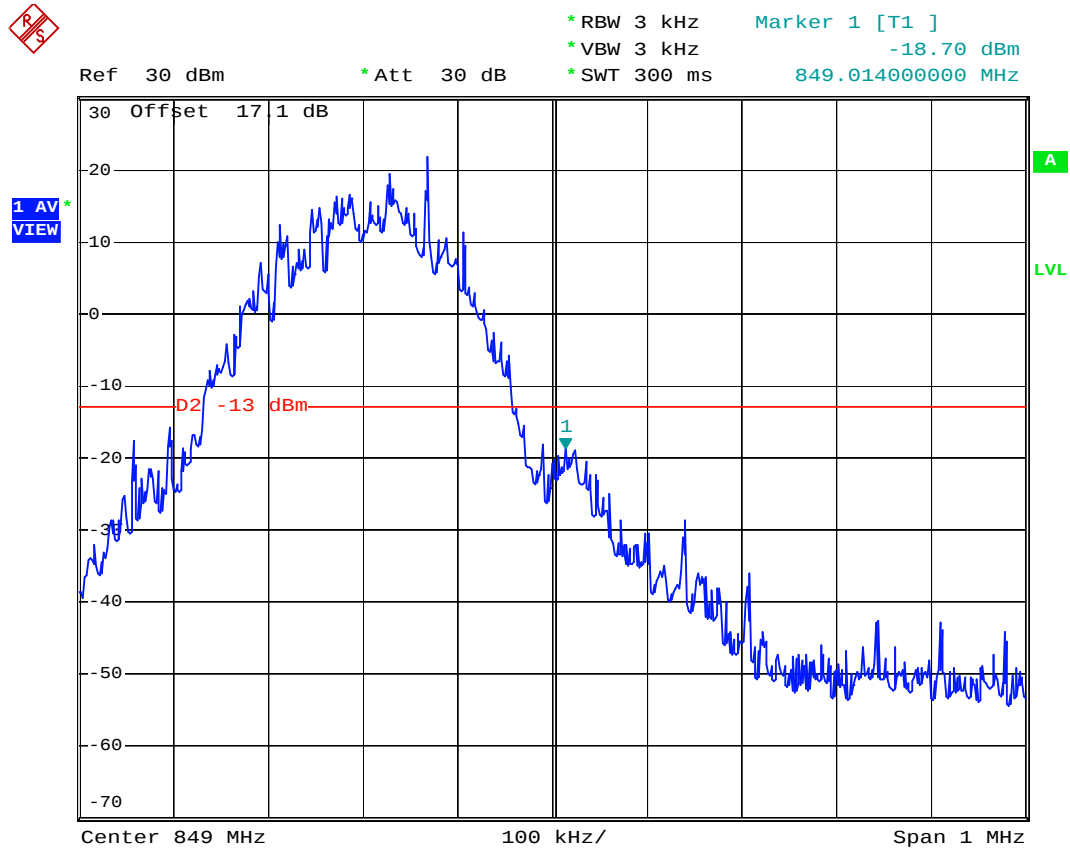
- Test Mode : GSM850 (GSM) CH189 99% Occupied Bandwidth
- Power State : High



Date: 6.JAN.2007 10:21:28



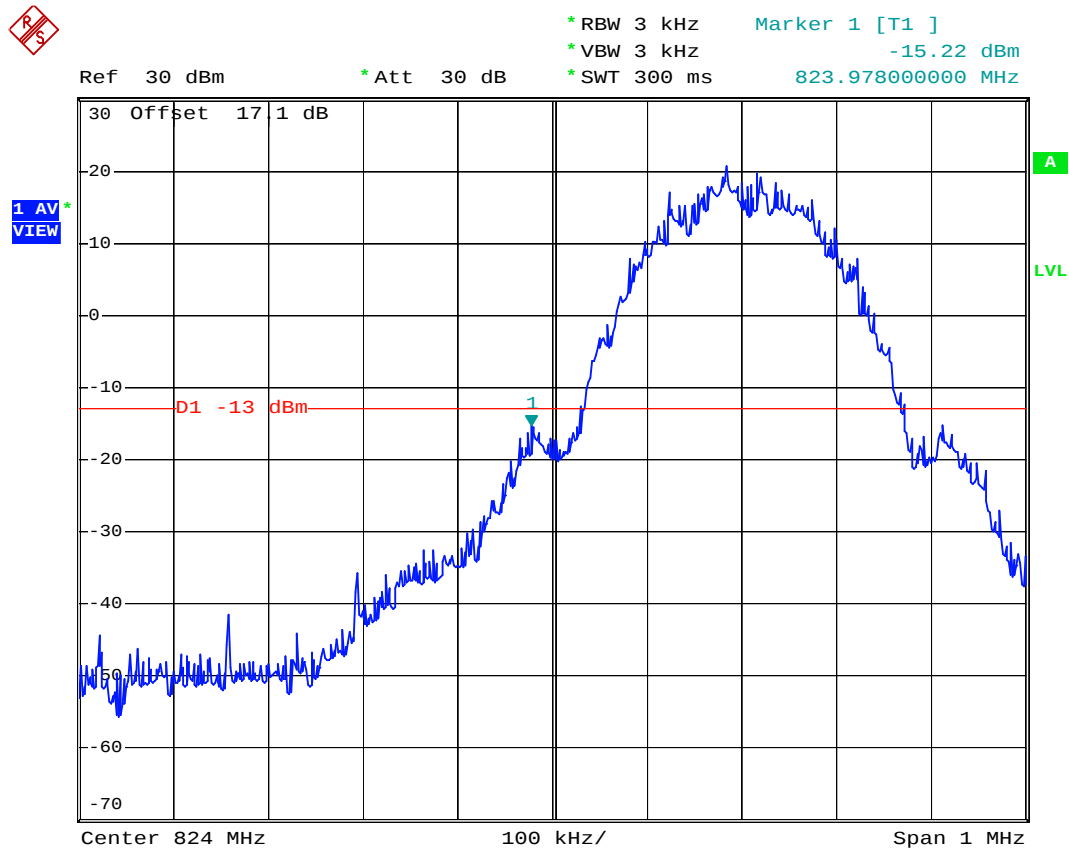
- Test Mode : GSM850 (GSM) CH251 Higher Band Edge
- Power State : High



Date: 6.JAN.2007 10:29:23

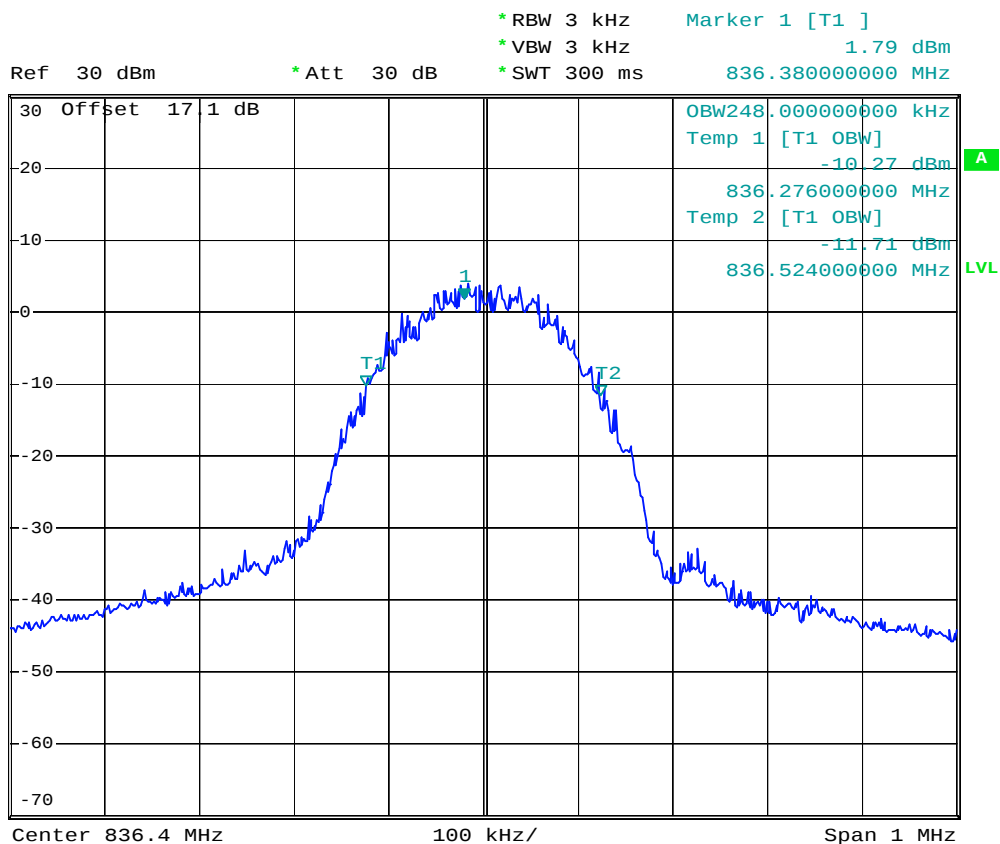


- Mode 2
- Test Mode : GSM850 (EDGE) CH128 Lower Band Edge
- Power State : High



Date: 11.JAN.2007 06:09:29

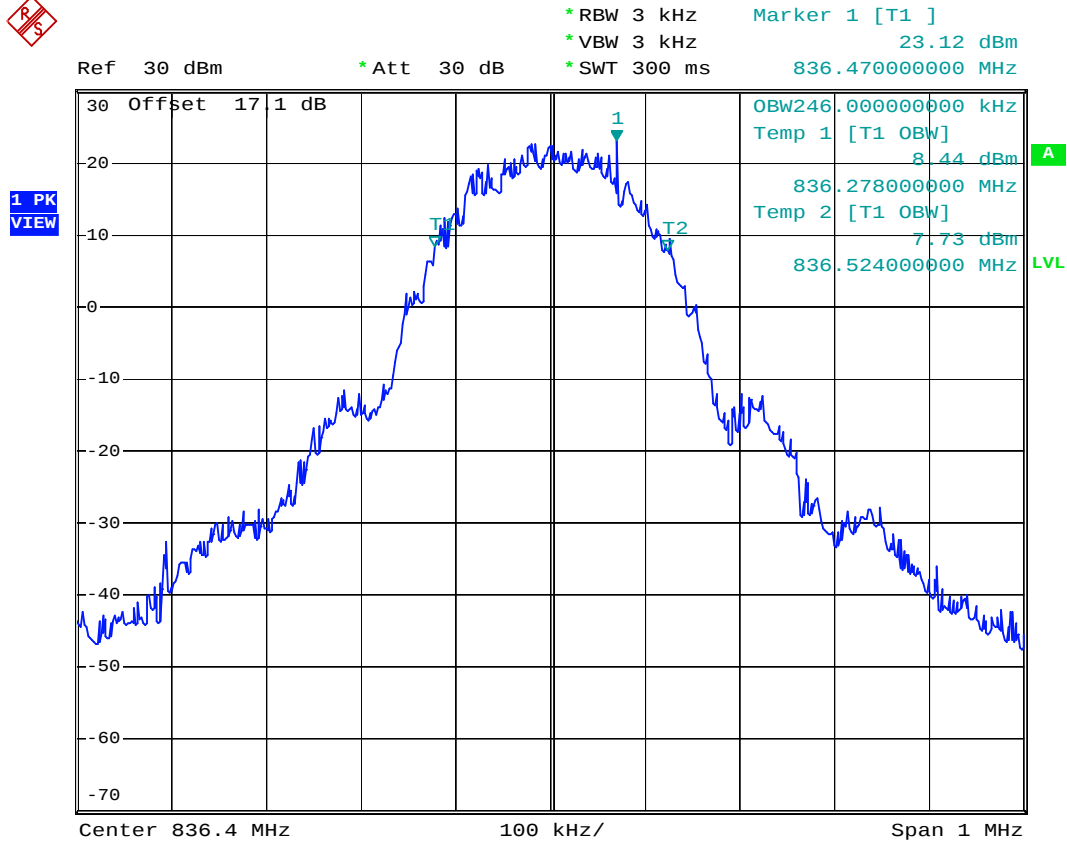
- Test Mode : GSM850 (EDGE) CH189 99% Occupied Bandwidth
- Power State : Low



Date: 11.JAN.2007 05:55:44

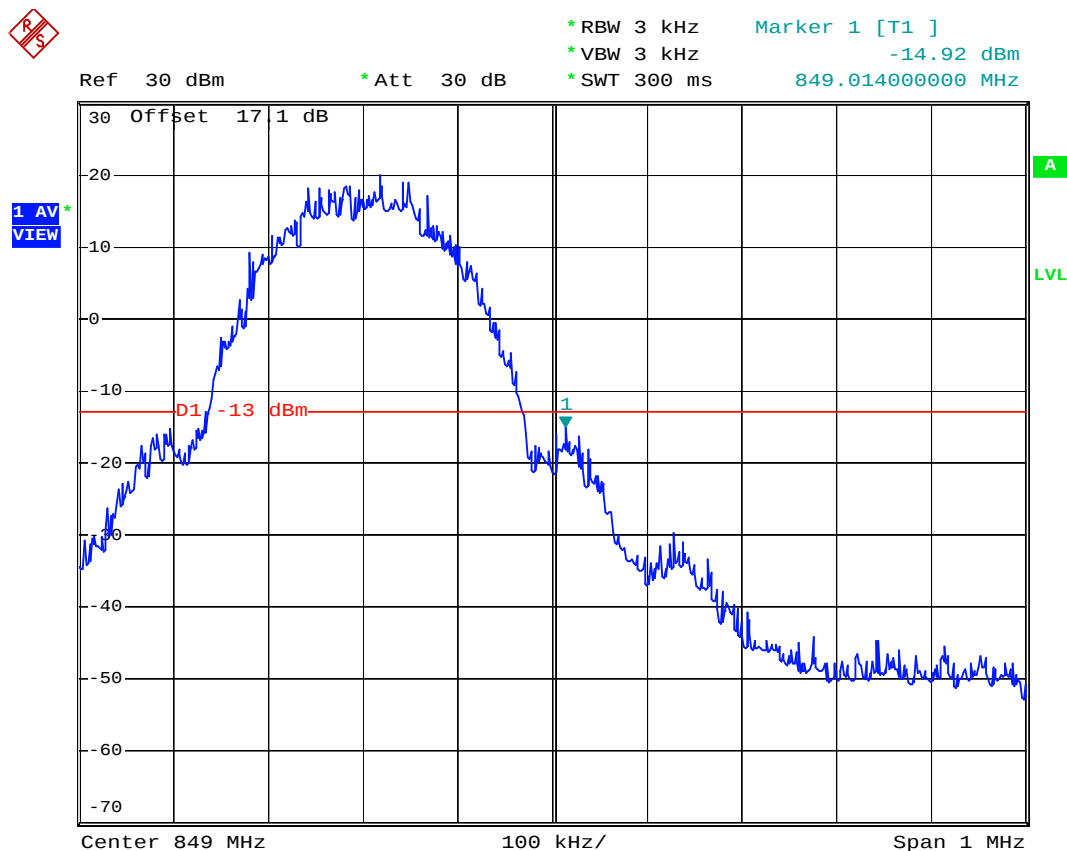


- Test Mode : GSM850 (EDGE) CH189 99% Occupied Bandwidth
- Power State : High



Date: 11.JAN.2007 06:11:12

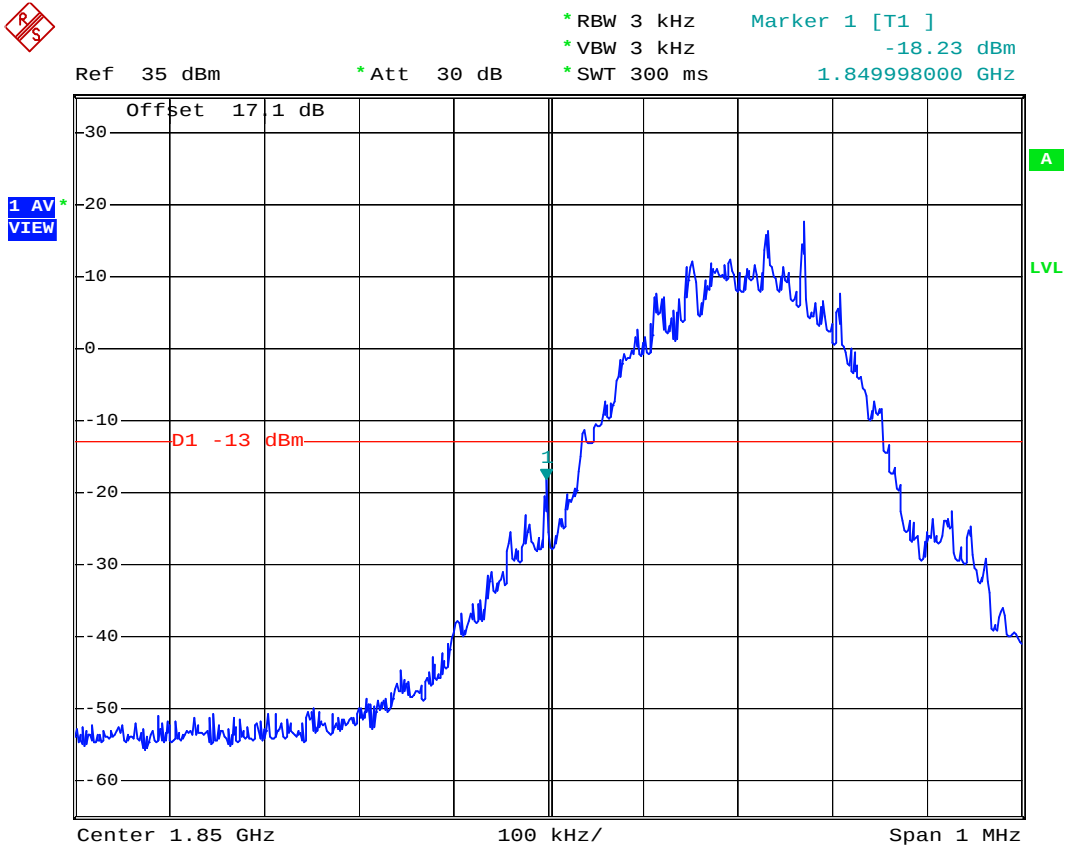
- Test Mode : GSM850 (EDGE) CH251 Higher Band Edge
- Power State : High



Date: 11.JAN.2007 06:10:17



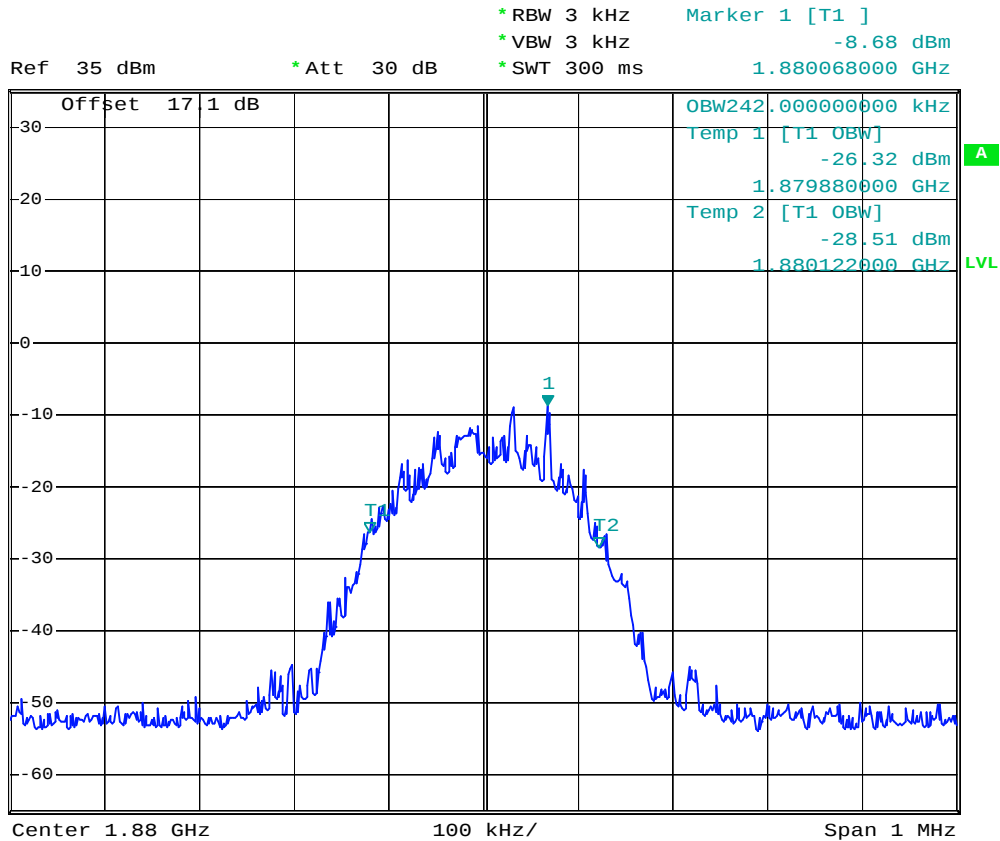
- Mode 3
- Test Mode : PCS1900 (GSM) CH512 Lower Band Edge
- Power State : High



Date: 6.JAN.2007 12:24:13



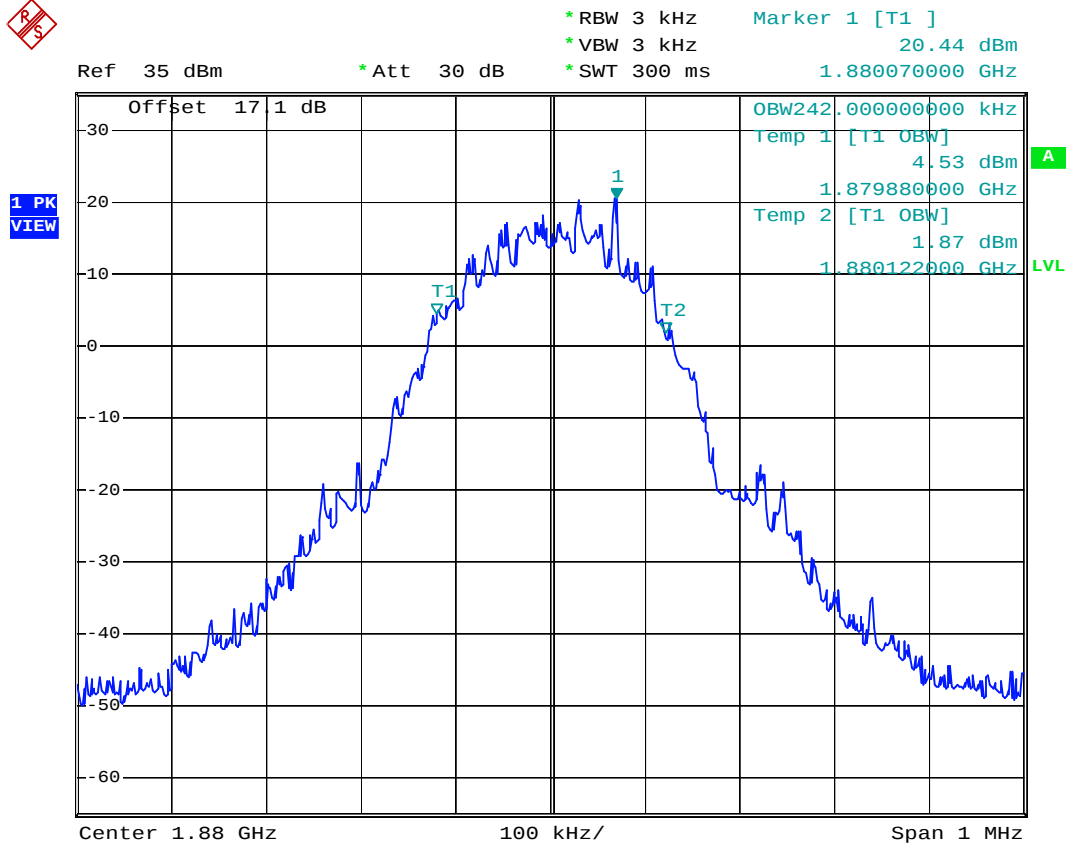
- Test Mode : PCS1900 (GSM) CH661 99% Occupied Bandwidth
- Power State : Low



Date: 6.JAN.2007 12:20:20



- Test Mode : PCS1900 (GSM) CH661 99% Occupied Bandwidth
- Power State : High



Date: 6.JAN.2007 12:21:24

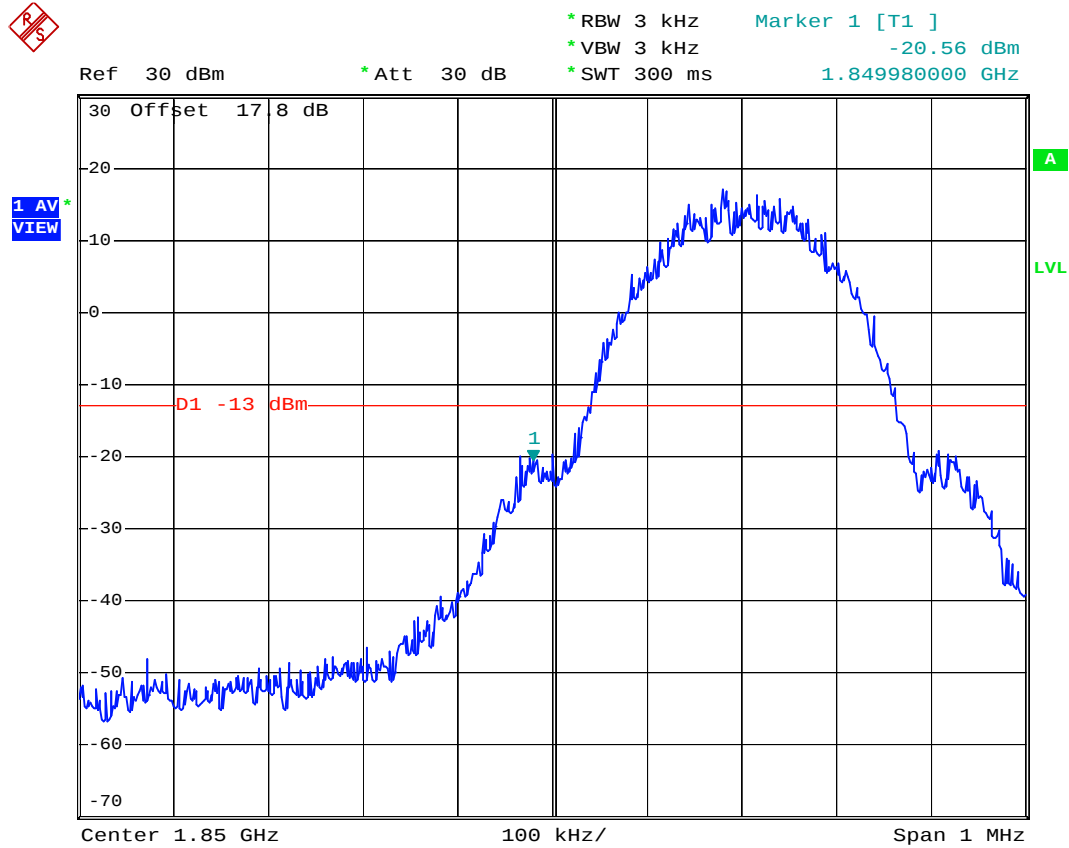
- Test Mode : PCS1900 (GSM) CH810 Higher Band Edge
- Power State : High



Date: 6.JAN.2007 12:25:25



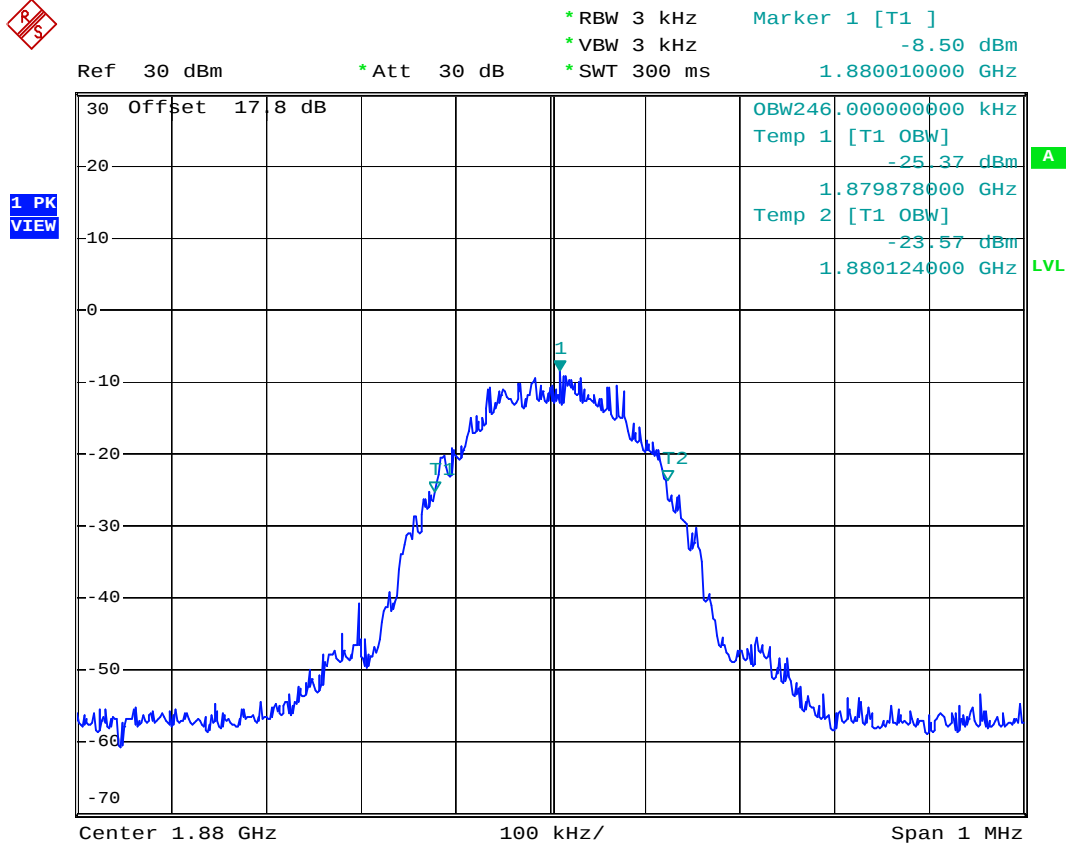
- Mode 4
- Test Mode : PCS1900 (EDGE) CH512 Lower Band Edge
- Power State : High



Date: 11.JAN.2007 06:04:25

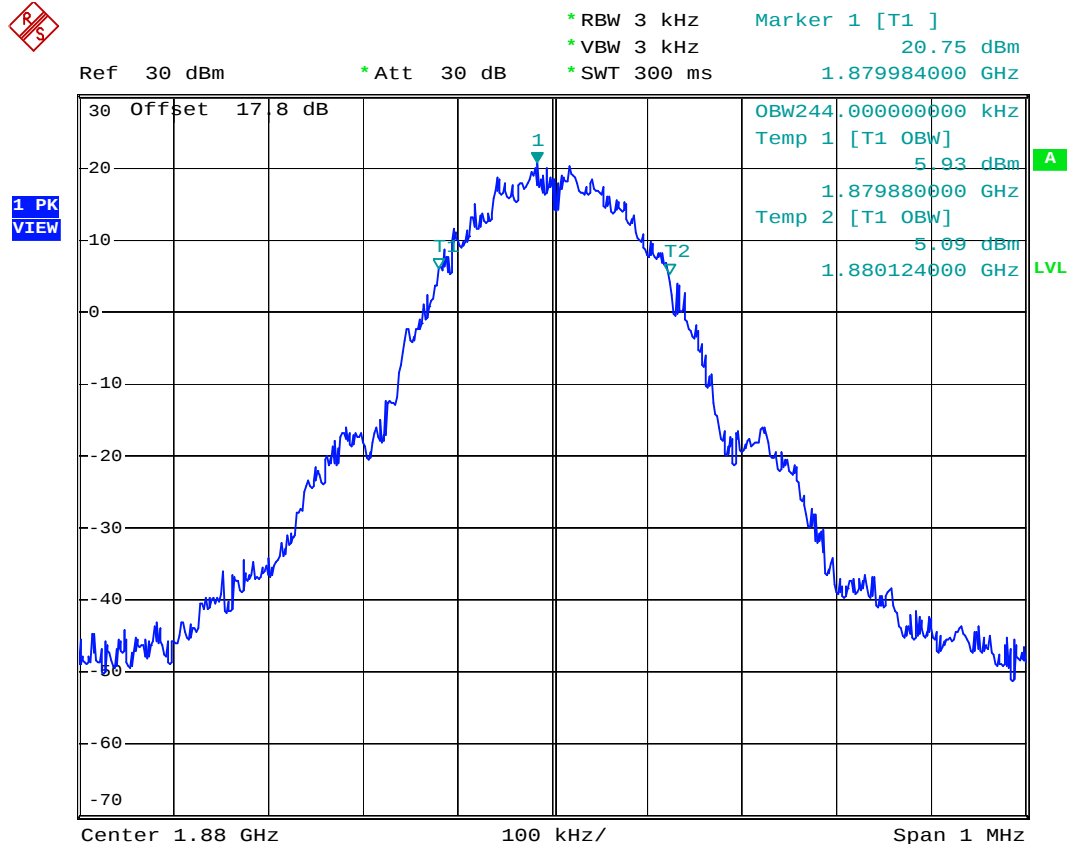


- Test Mode : PCS1900 (EDGE) CH661 99% Occupied Bandwidth
- Power State : Low



Date: 11.JAN.2007 05:59:47

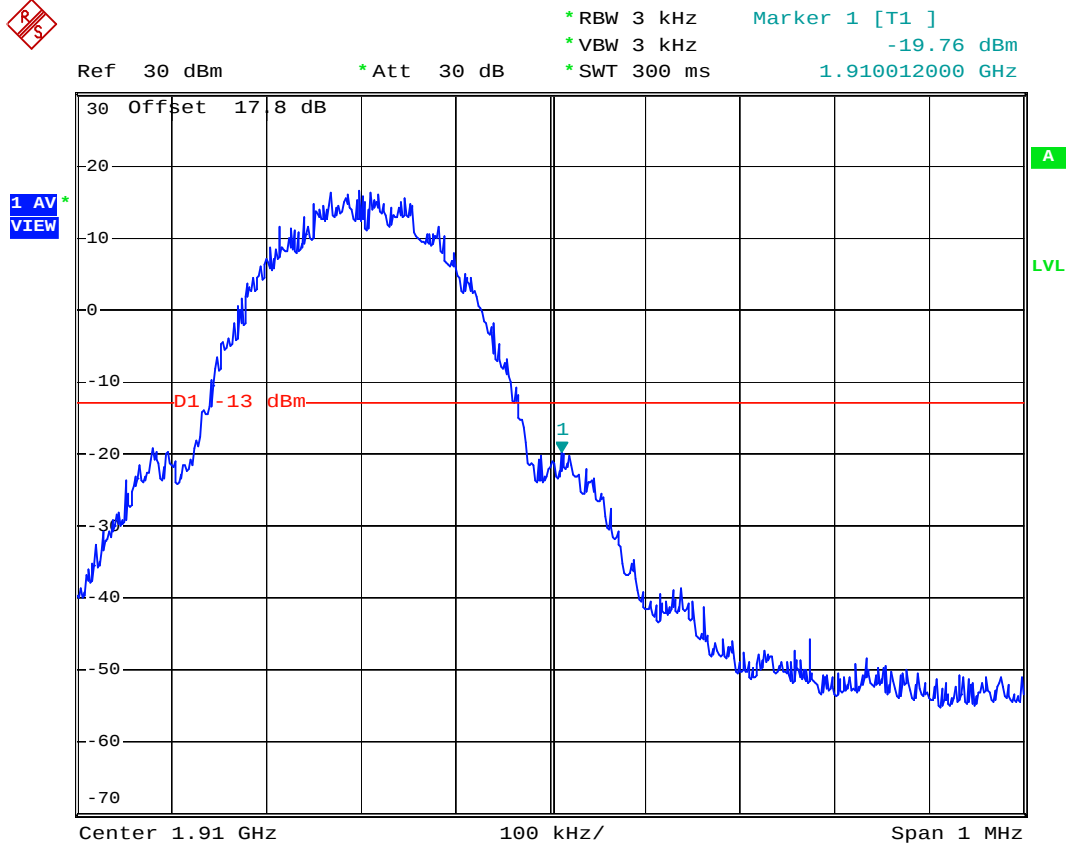
- Test Mode : PCS1900 (EDGE) CH661 99% Occupied Bandwidth
- Power State : High



Date: 11.JAN.2007 06:03:15



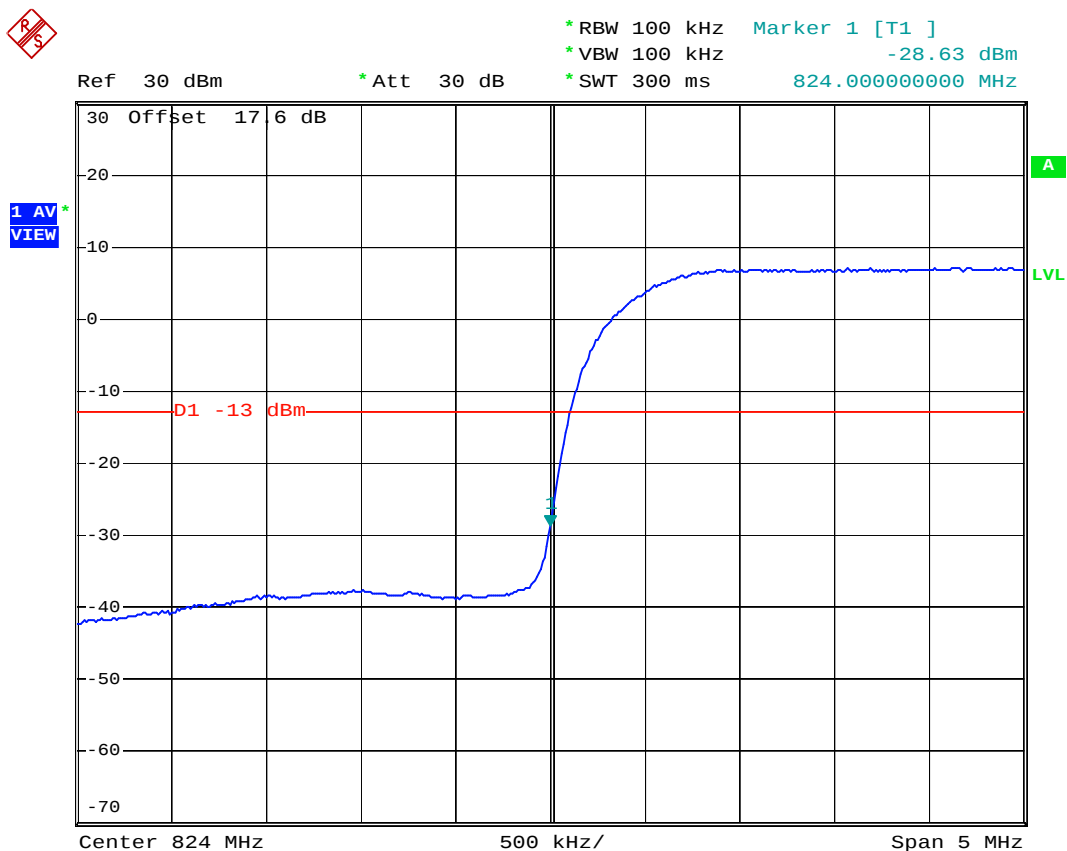
- Test Mode : PCS1900 (EDGE) CH810 Higher Band Edge
- Power State : High



Date: 11.JAN.2007 06:05:29

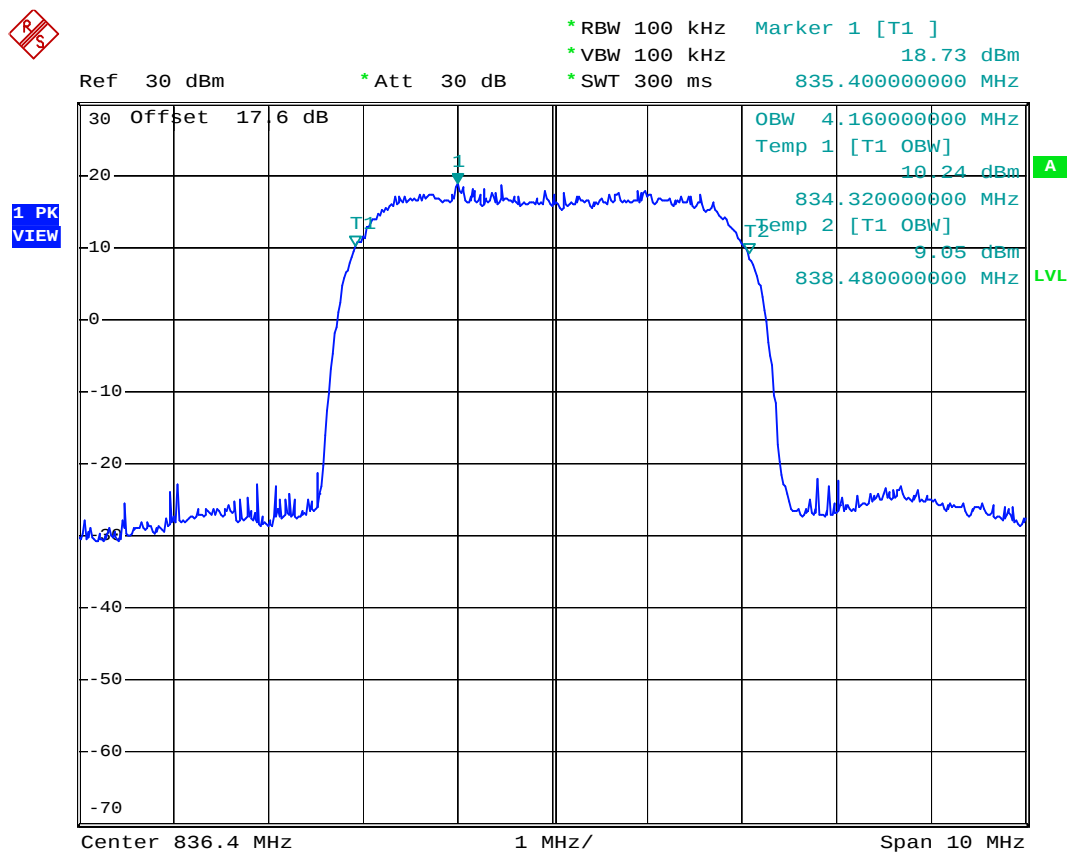


- Mode 5
- Test Mode : WCDMA Band V CH4132 Lower Band Edge
- Power State : High



Date: 6.JAN.2007 16:27:30

- Test Mode : WCDMA Band V CH4182 99% Occupied Bandwidth
- Power State : High



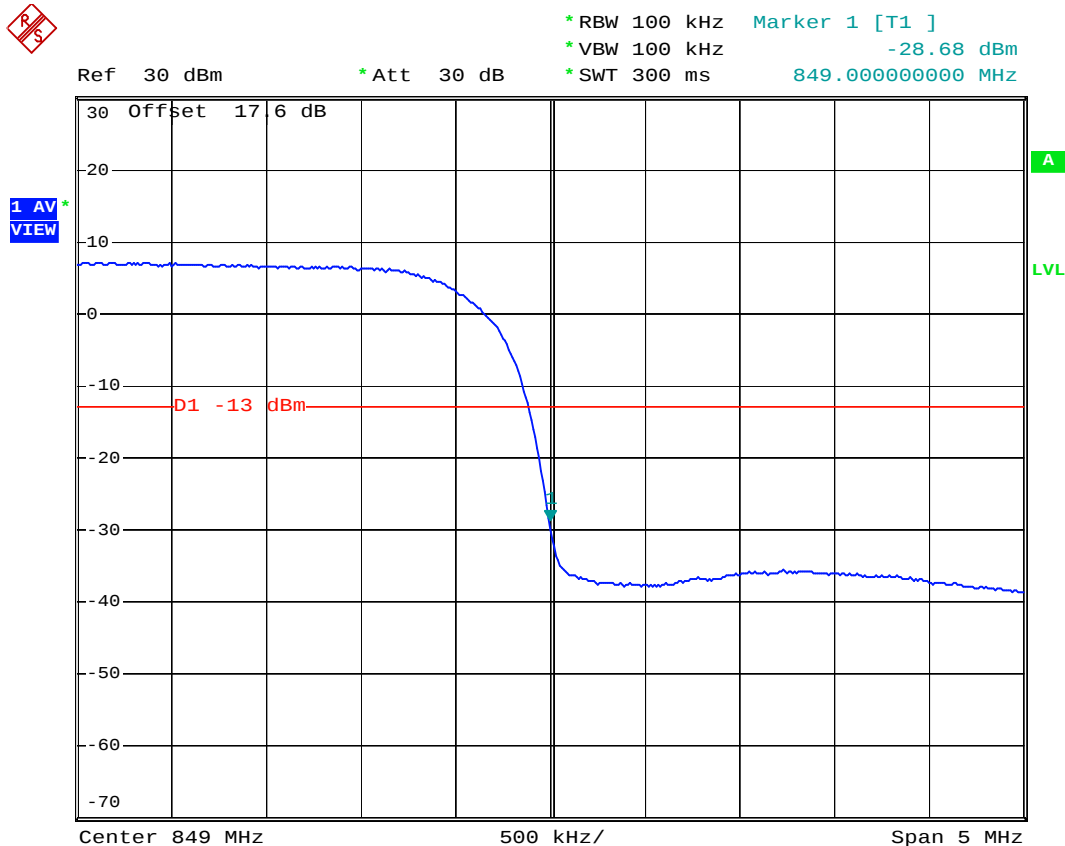
Date: 6.JAN.2007 16:23:27



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band V CH4233 Higher Band Edge
- Power State : High



Date: 6.JAN.2007 16:28:43

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : NBZNRM-EU860D

IC ID : 3229A-EU860D

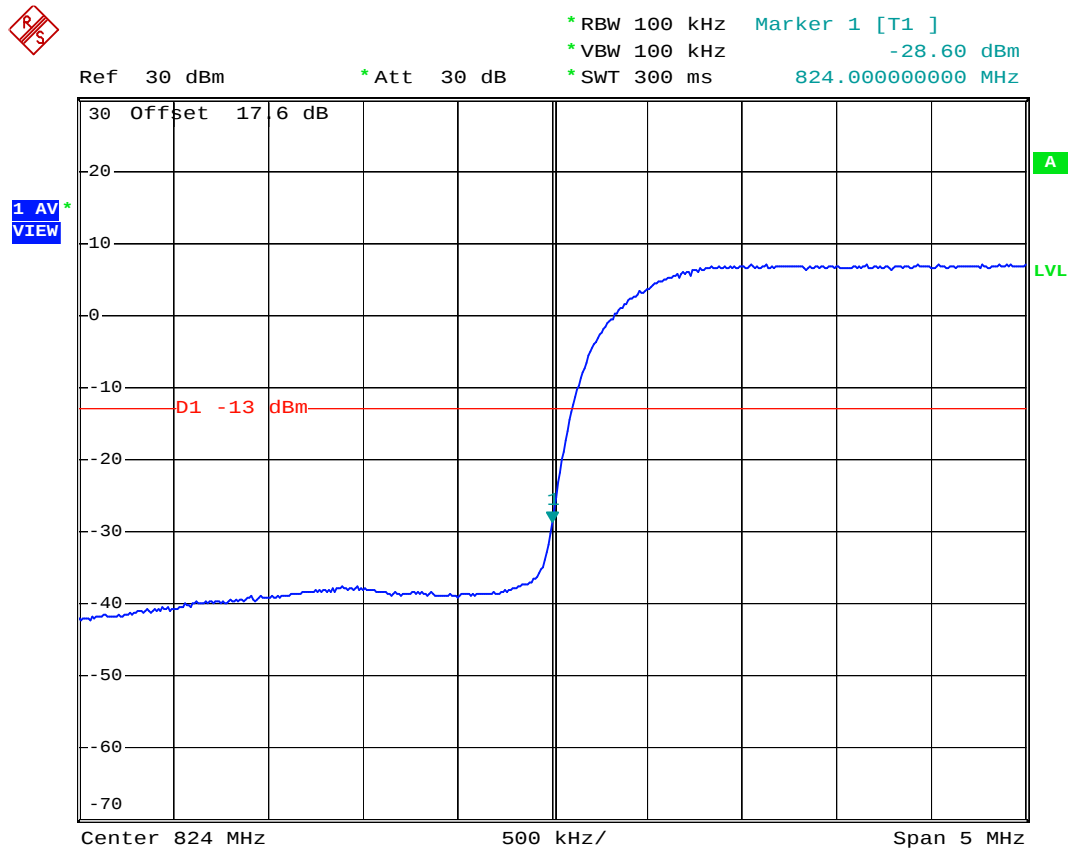
Page No. : 34 of 146

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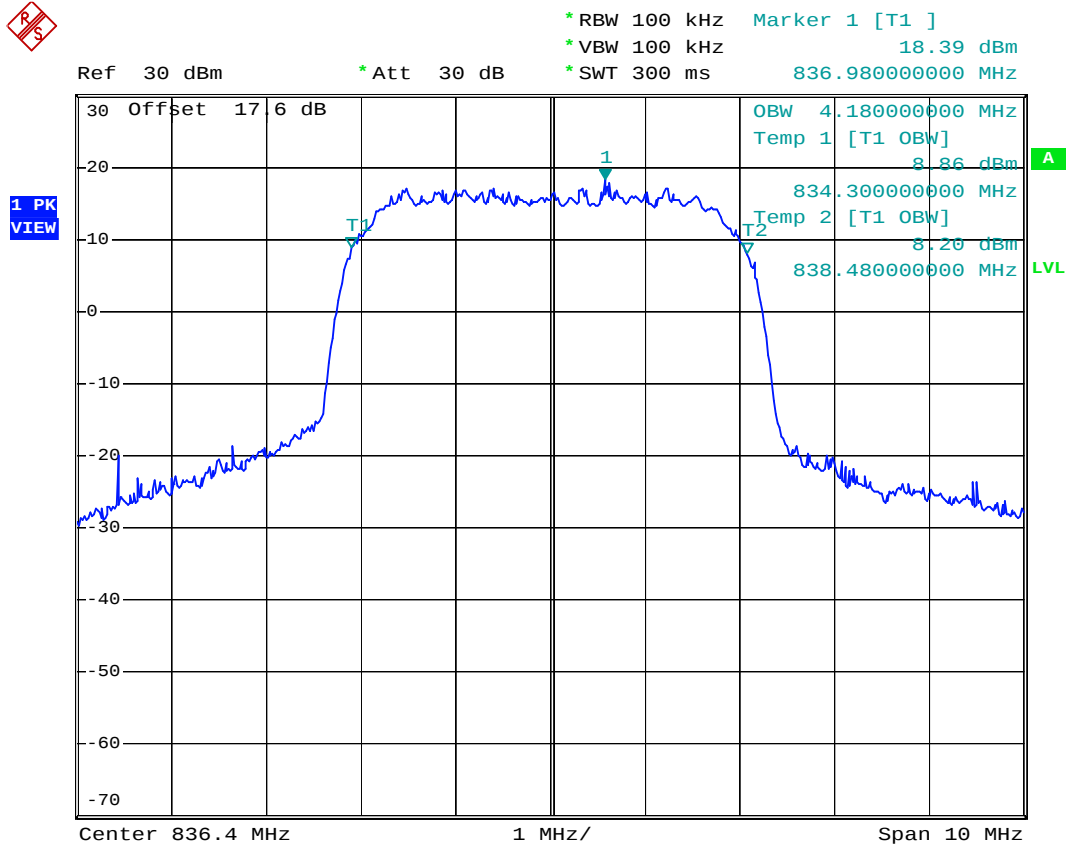
- Mode 6
- Test Mode : WCDMA Band V (HSDPA) CH4132 Lower Band Edge
- Power State : High



Date: 6.JAN.2007 16:28:00



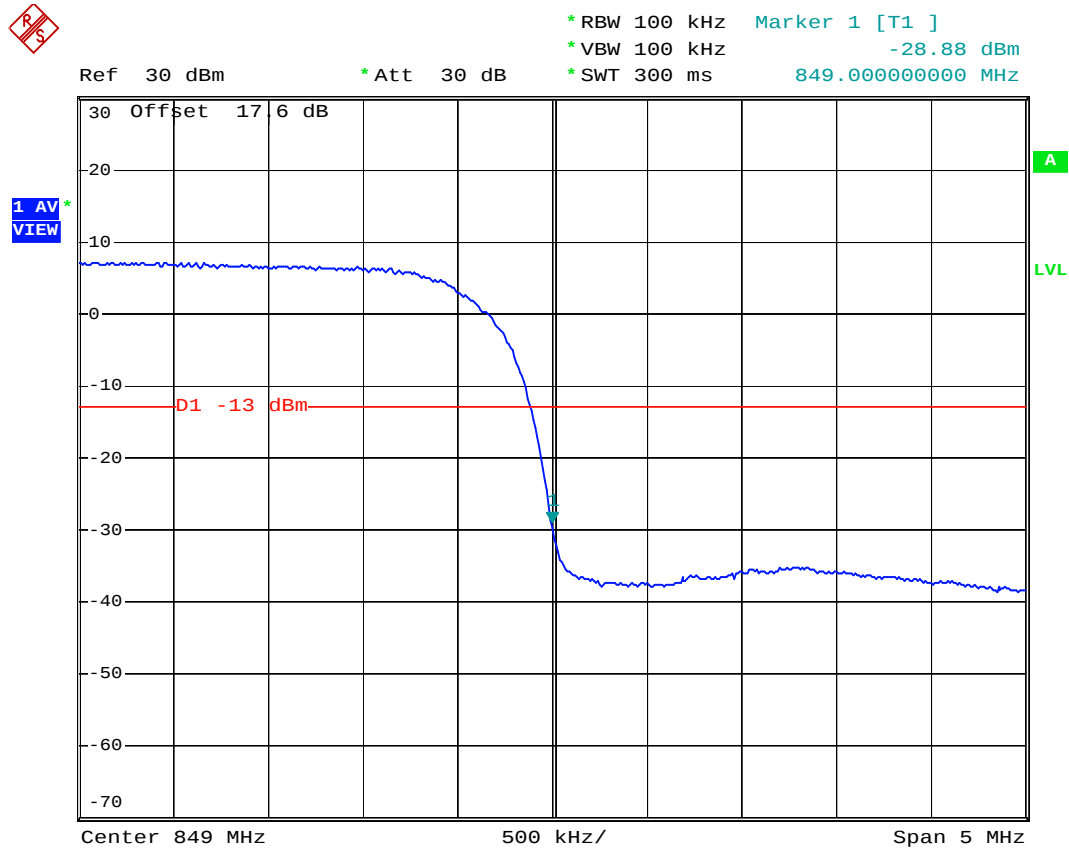
- Test Mode : WCDMA Band V (HSDPA) CH4182 99% Occupied Bandwidth
- Power State : High



Date: 6.JAN.2007 19:27:28

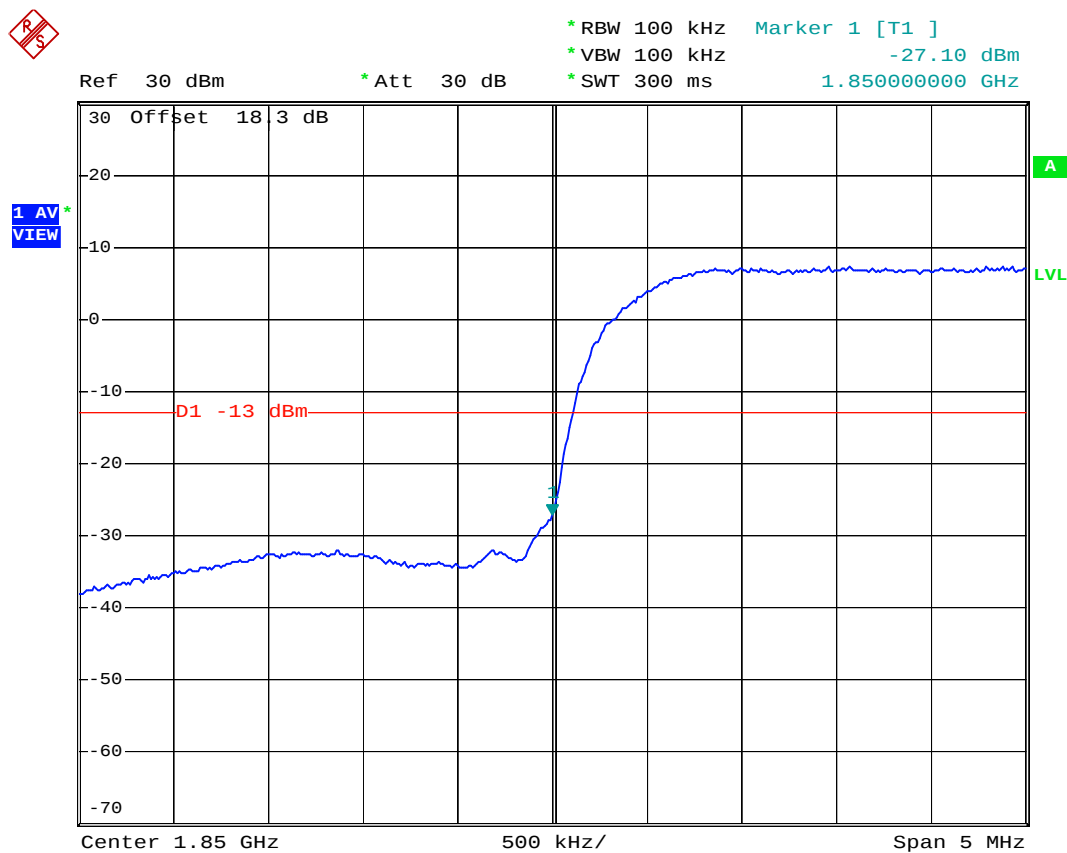


- Test Mode : WCDMA Band V (HSDPA) CH4233 Higher Band Edge
- Power State : High



Date: 6.JAN.2007 16:29:03

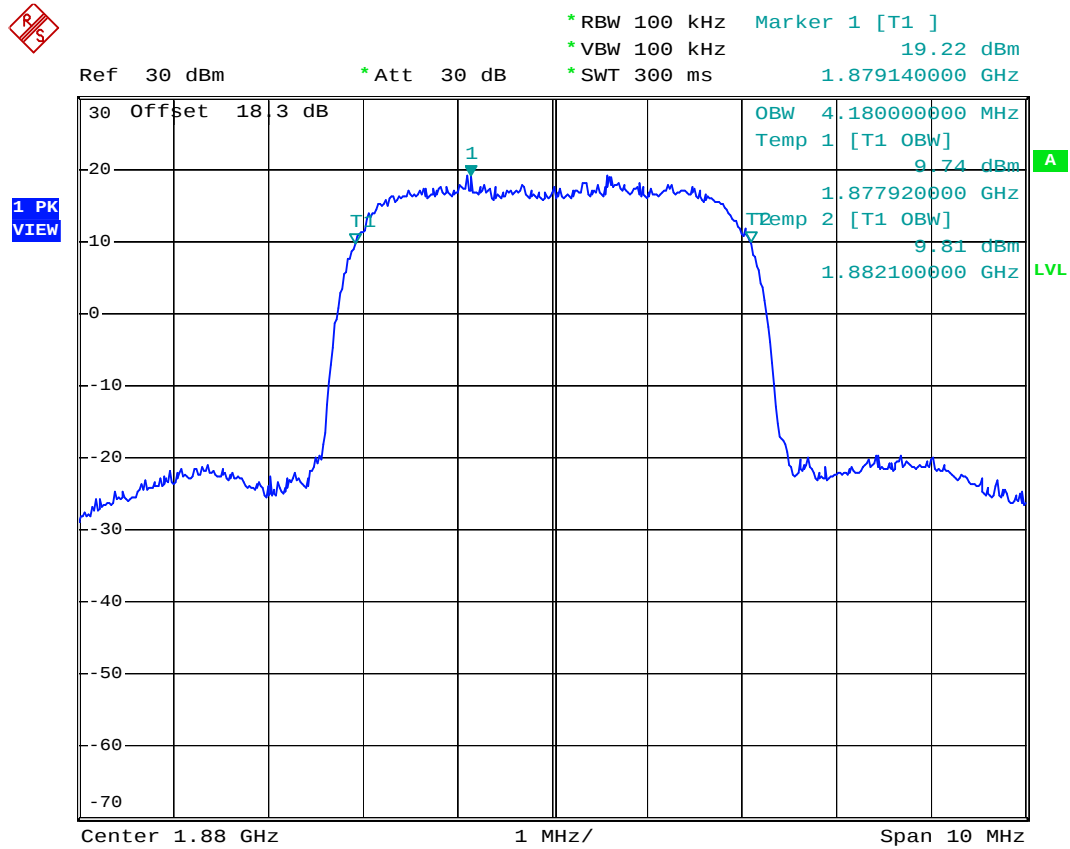
- Mode 7
- Test Mode : WCDMA Band II CH9262 Lower Band Edge
- Power State : High



Date: 6.JAN.2007 16:40:31



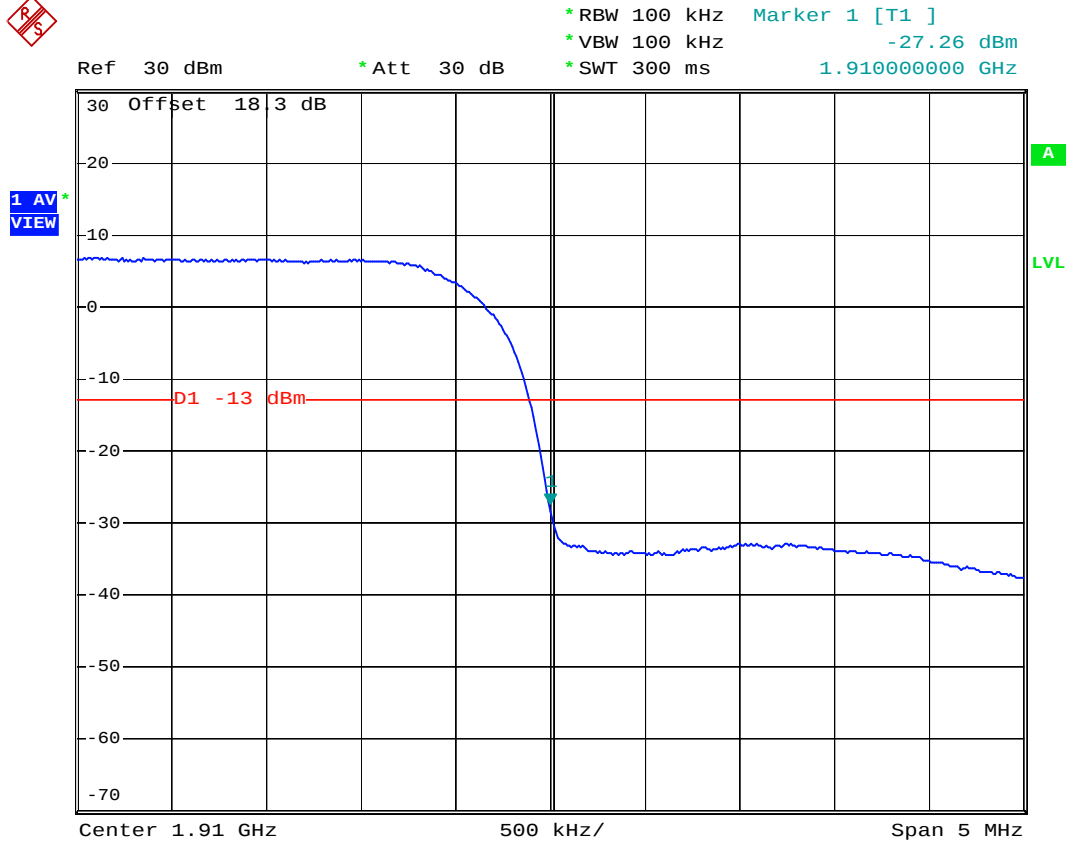
- Test Mode : WCDMA Band II CH9400 99% Occupied Bandwidth
- Power State : High



Date: 6.JAN.2007 16:42:49



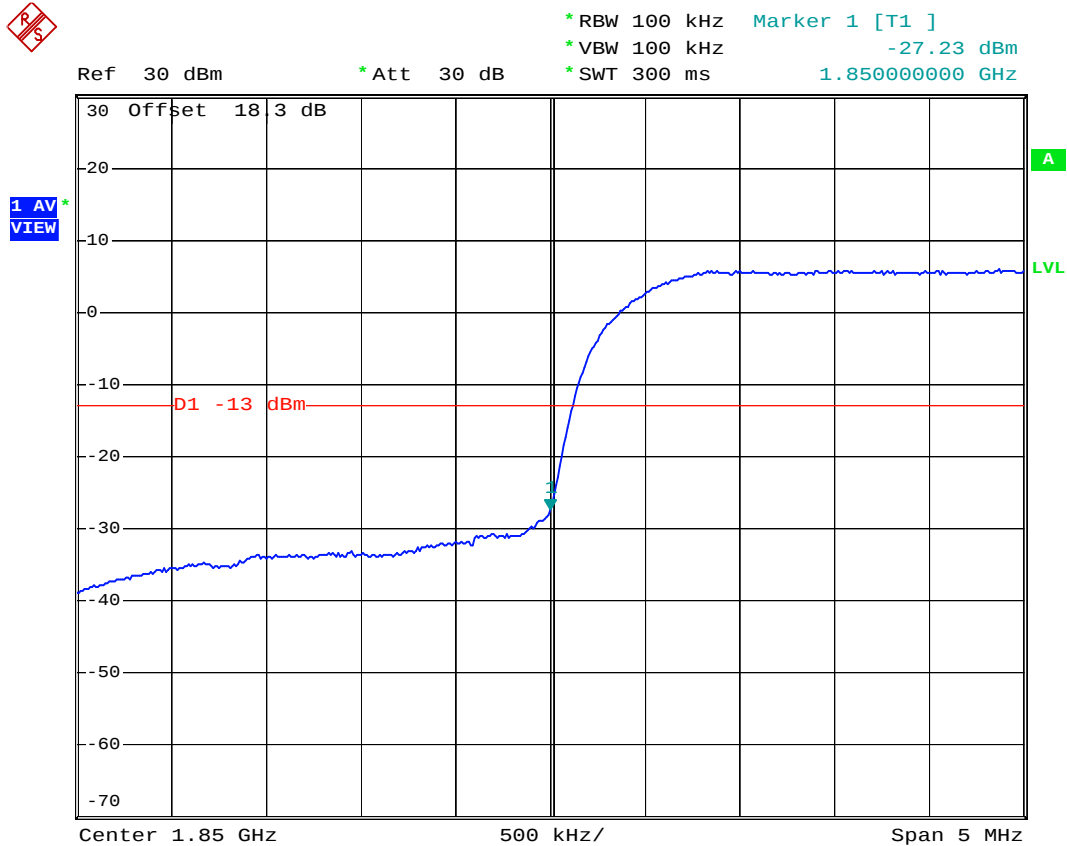
- Test Mode : WCDMA Band II CH9538 Higher Band Edge
- Power State : High



Date: 6.JAN.2007 16:41:51



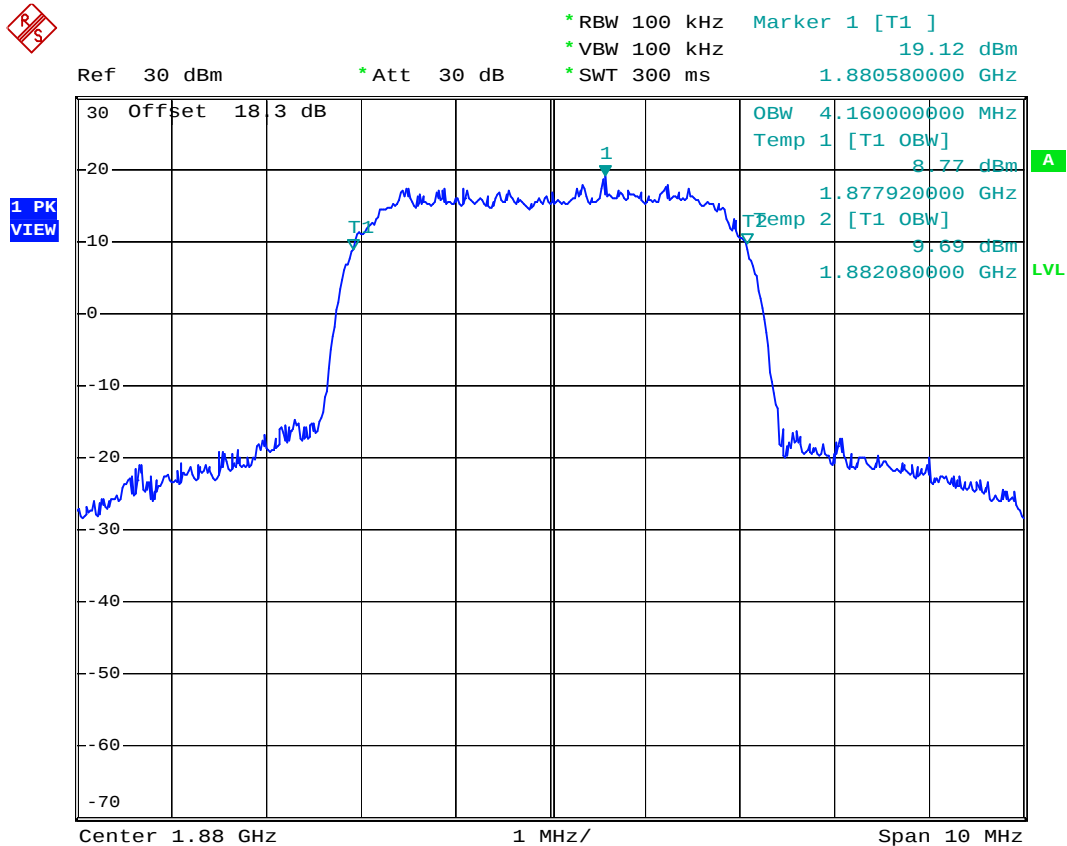
- Mode 8
- Test Mode : WCDMA Band II (HSDPA) CH9262 Lower Band Edge
- Power State : High



Date: 6.JAN.2007 19:47:44



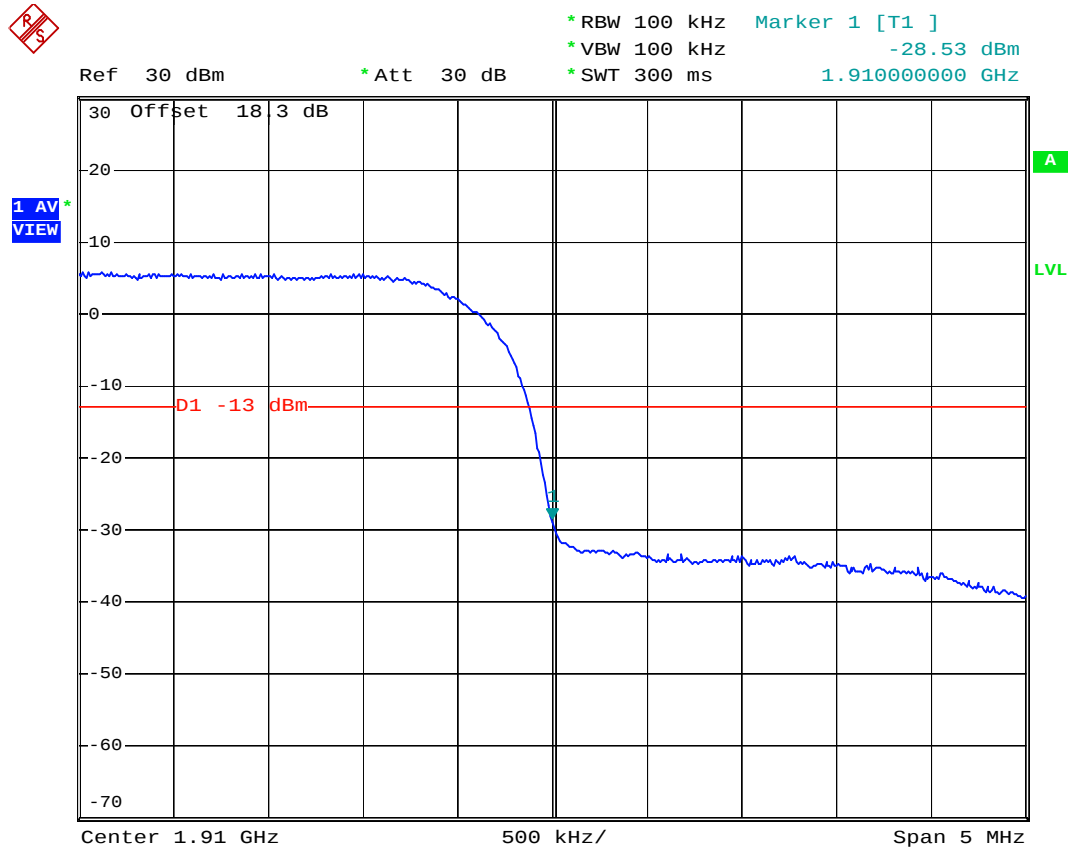
- Test Mode : WCDMA Band II (HSDPA) CH9400 99% Occupied Bandwidth
- Power State : High



Date: 6.JAN.2007 19:45:55



- Test Mode : WCDMA Band II (HSDPA) CH9538 Higher Band Edge
- Power State : High



Date: 6.JAN.2007 19:48:31

4.4 Conducted Emission

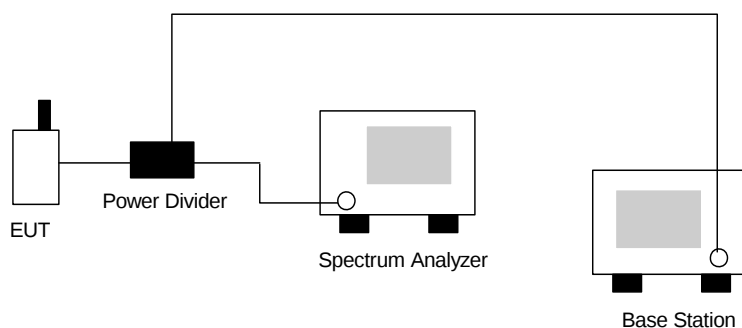
4.5.1 Measurement Instruments

As described in chapter 5 of this test report.

4.5.2 Test Procedure

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.

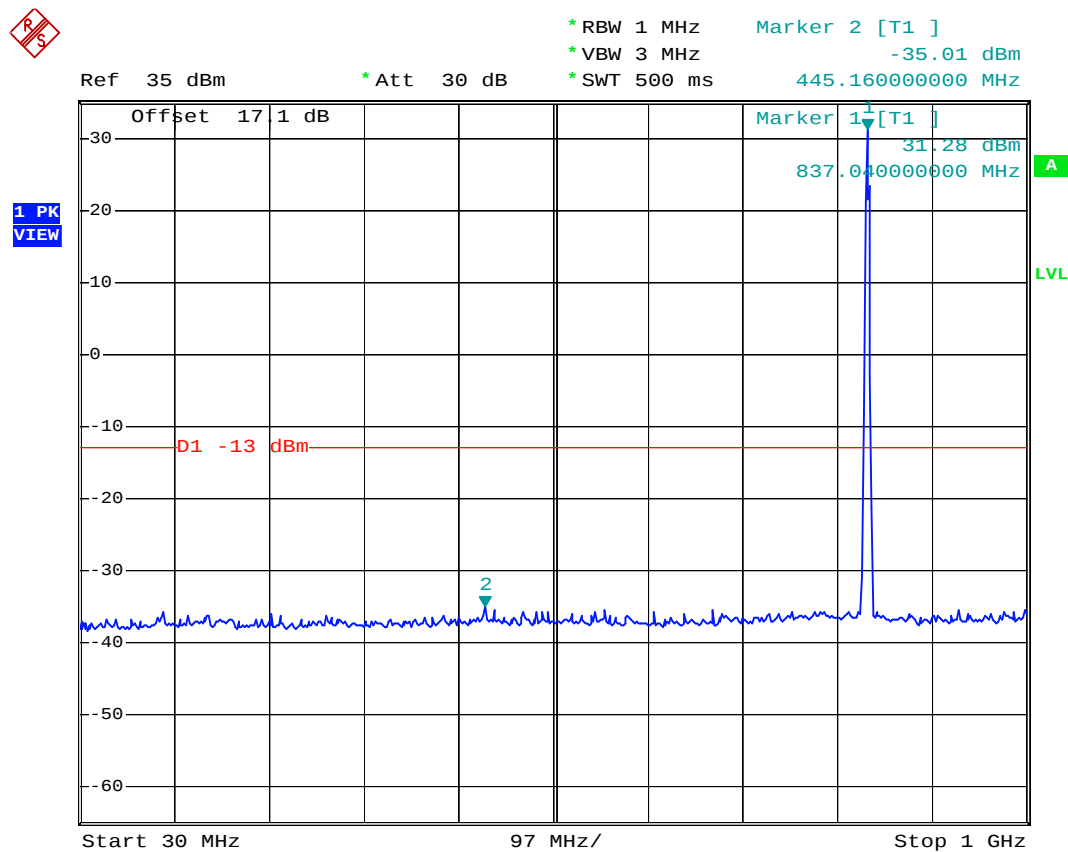
4.5.3 Test Setup Layout





4.5.4 Test Result

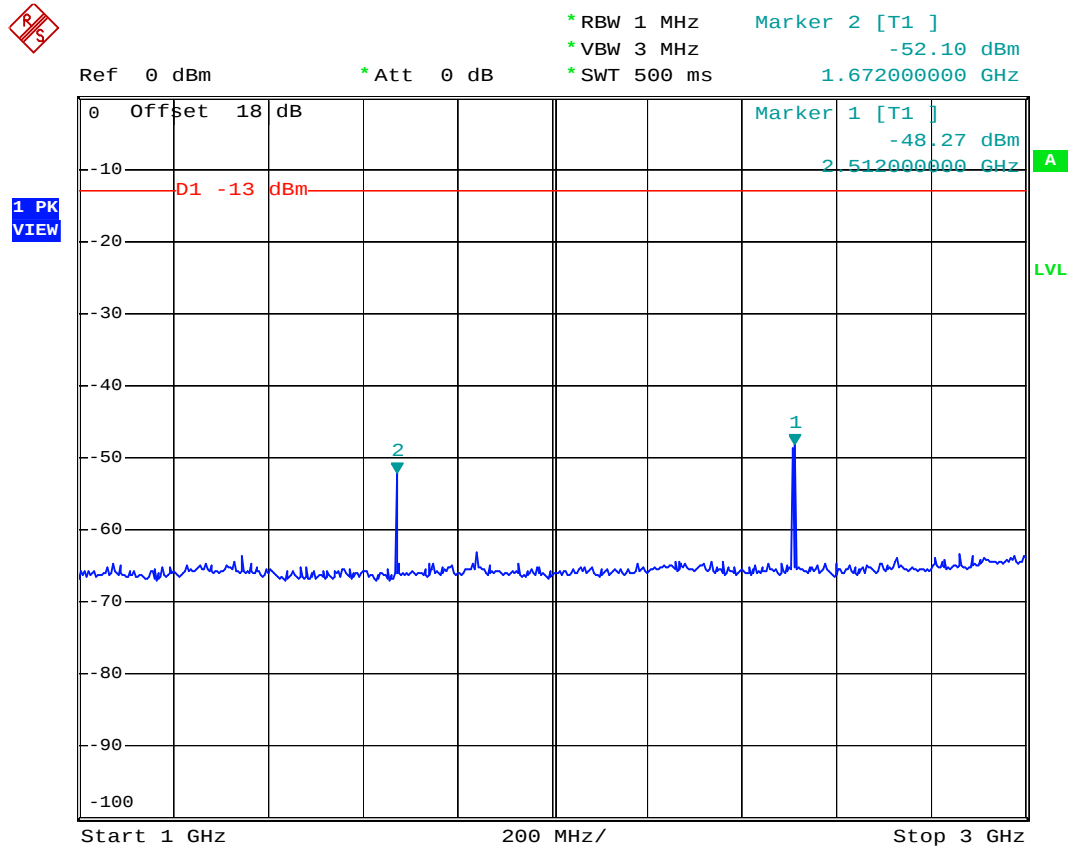
- Mode 1
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 30M-1G



Date: 6.JAN.2007 10:52:22



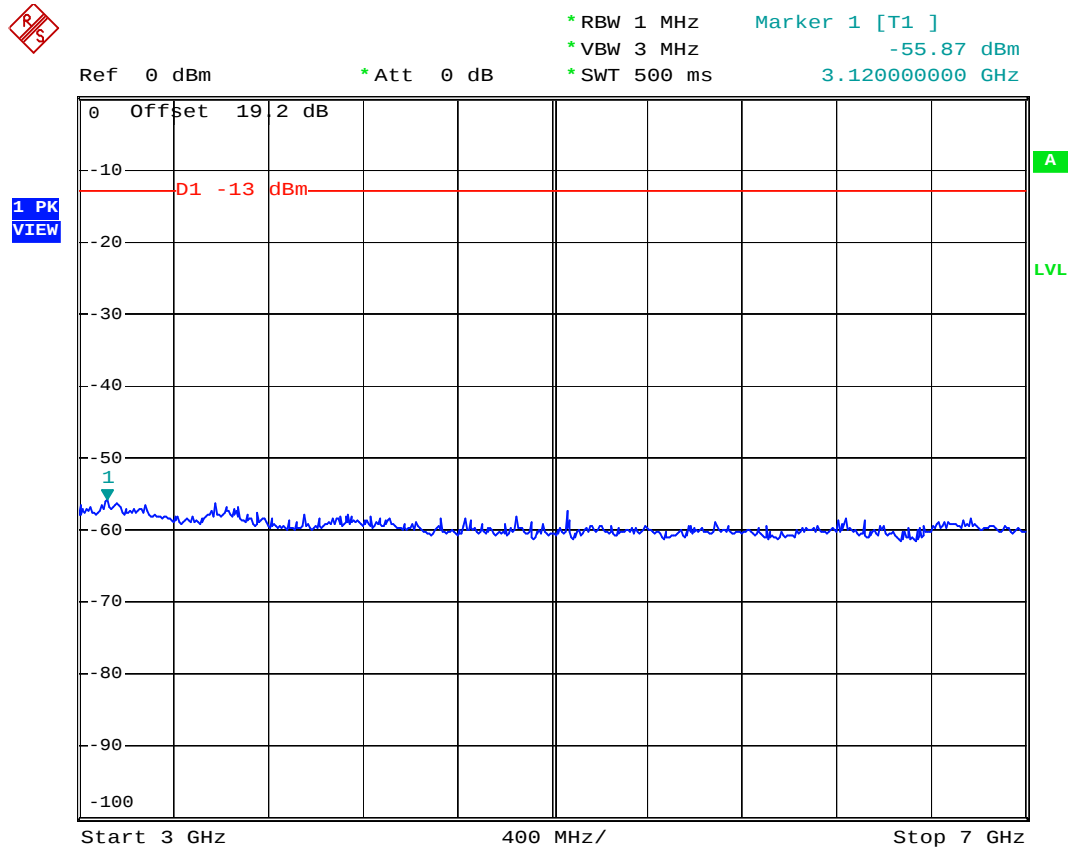
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 1G-3G



Date: 6.JAN.2007 10:53:37



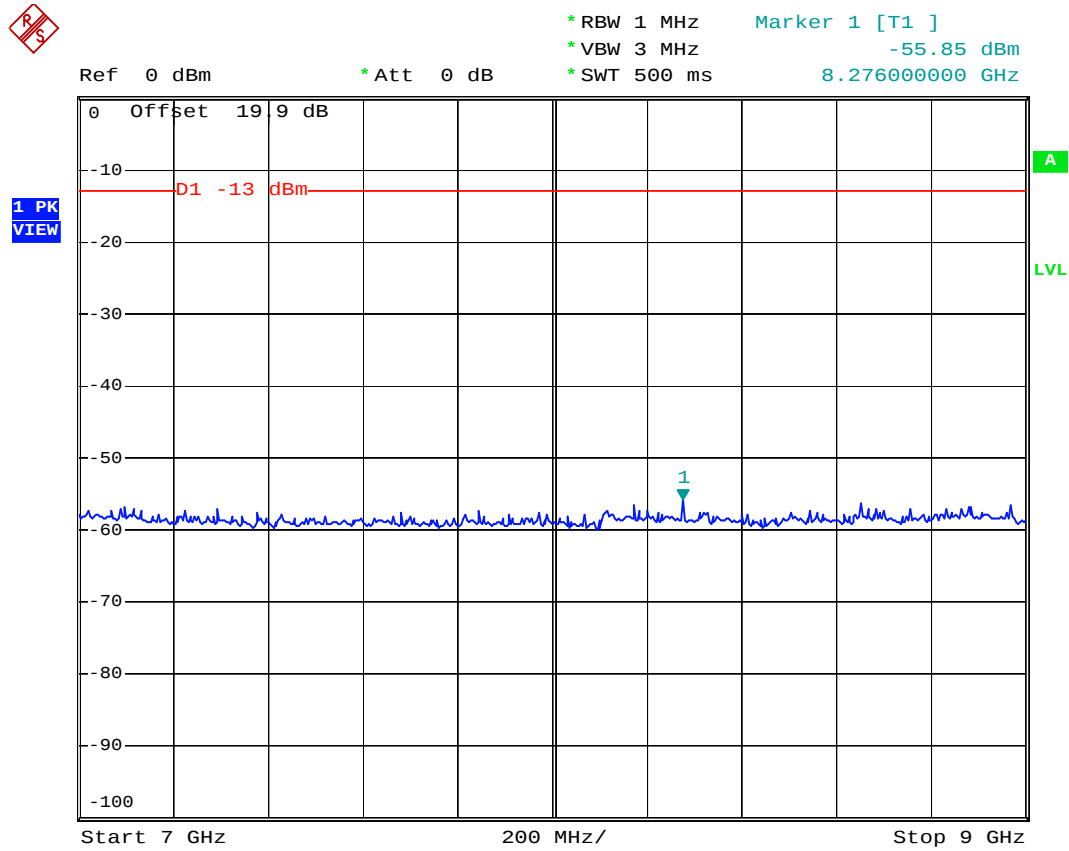
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 3G-7G



Date: 6.JAN.2007 10:54:04



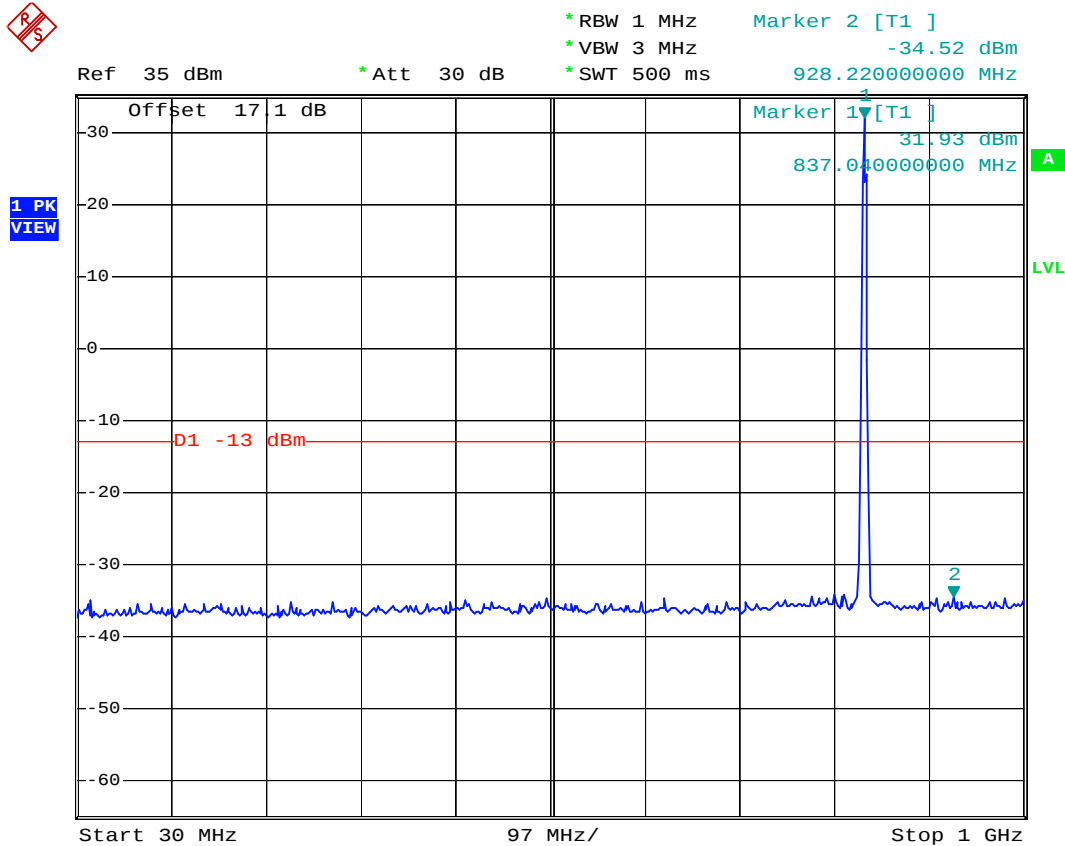
- Test Mode : GSM850 (GSM) CH189
- Frequency Range : 7G-9G



Date: 6.JAN.2007 10:54:54



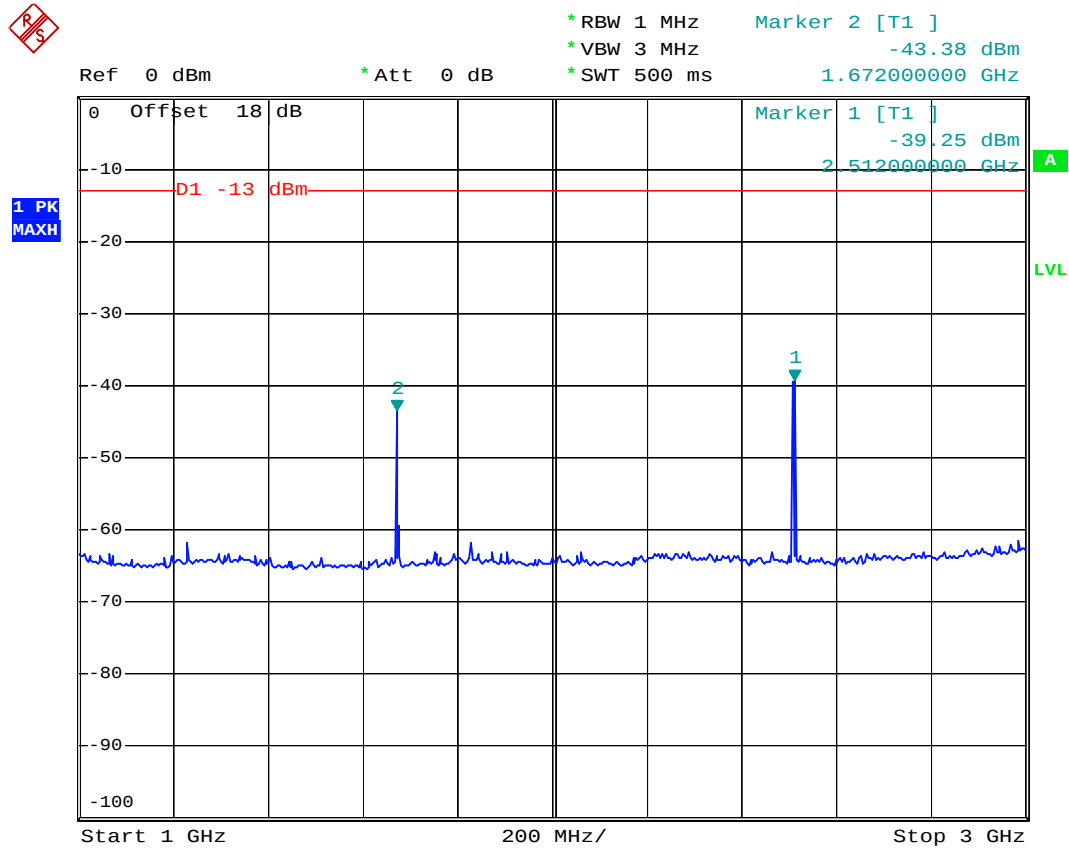
- Mode 2
- Test Mode : GSM850 (EDGE) CH189
- Frequency Range : 30M-1G



Date: 11.JAN.2007 06:18:48



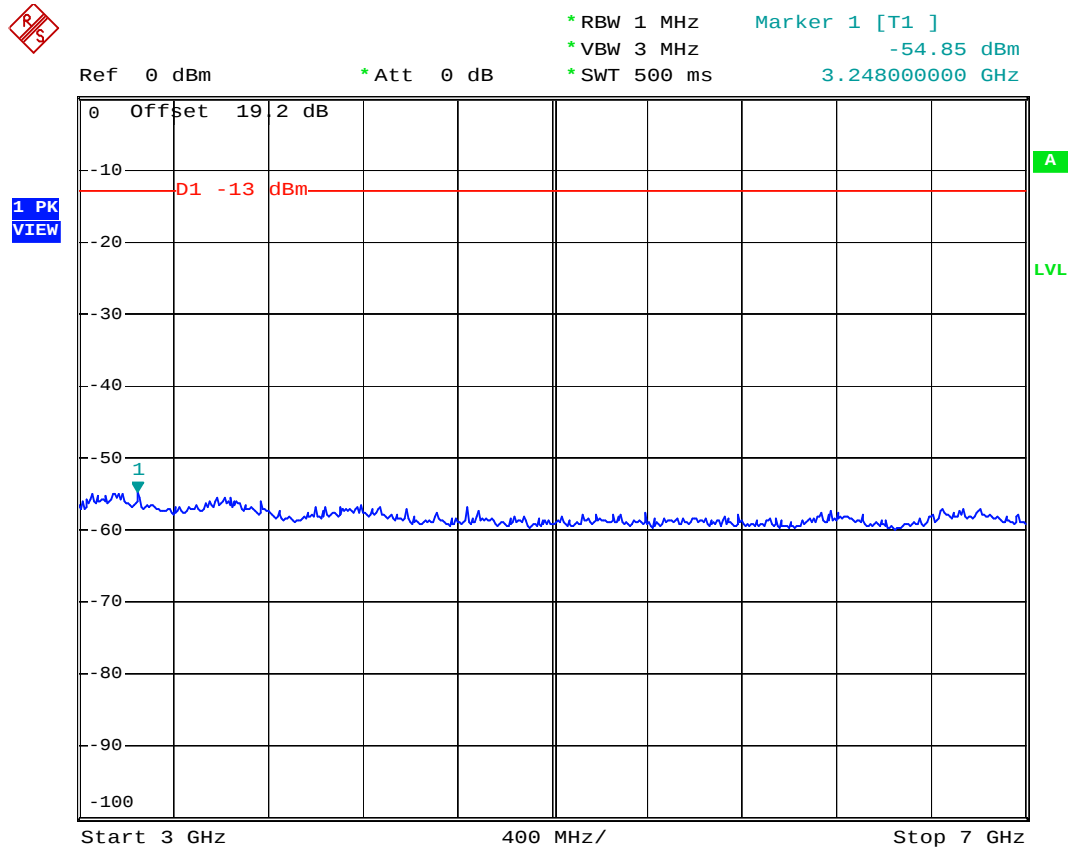
- Test Mode : GSM850 (EDGE) CH189
- Frequency Range : 1G-3G



Date: 11.JAN.2007 06:37:01



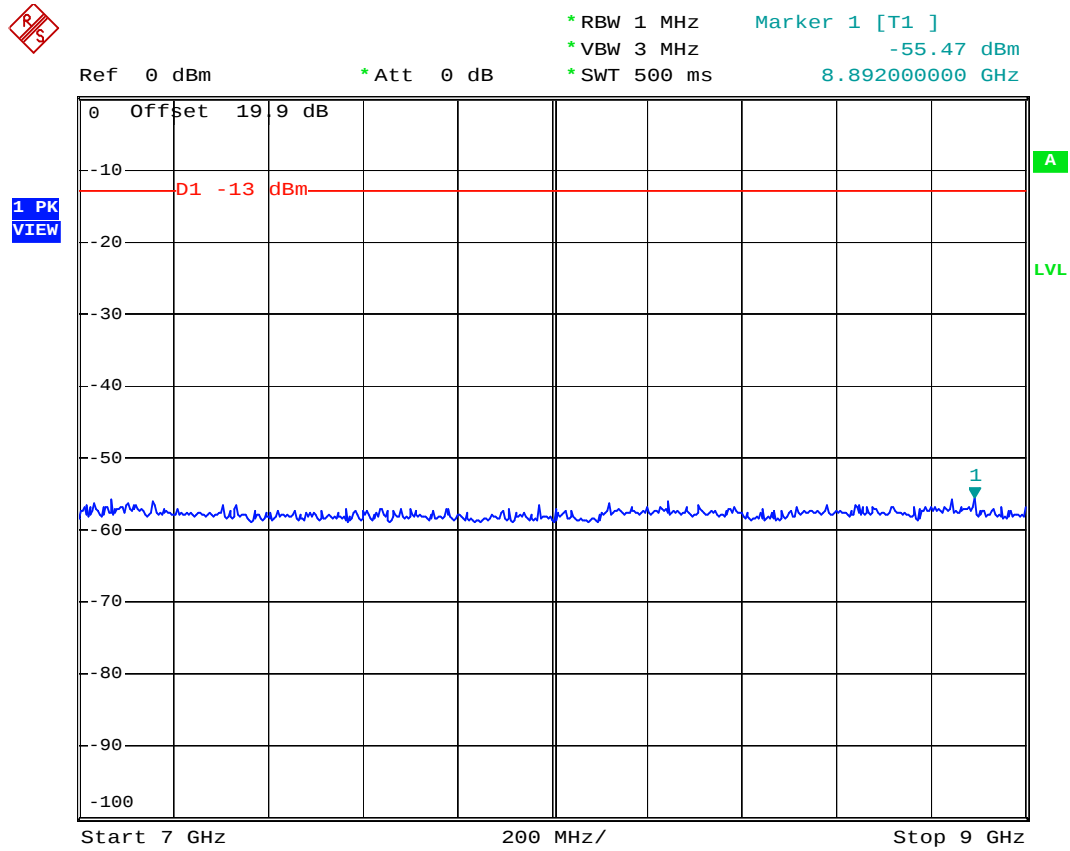
- Test Mode : GSM850 (EDGE) CH189
- Frequency Range : 3G-7G



Date: 11.JAN.2007 06:39:12



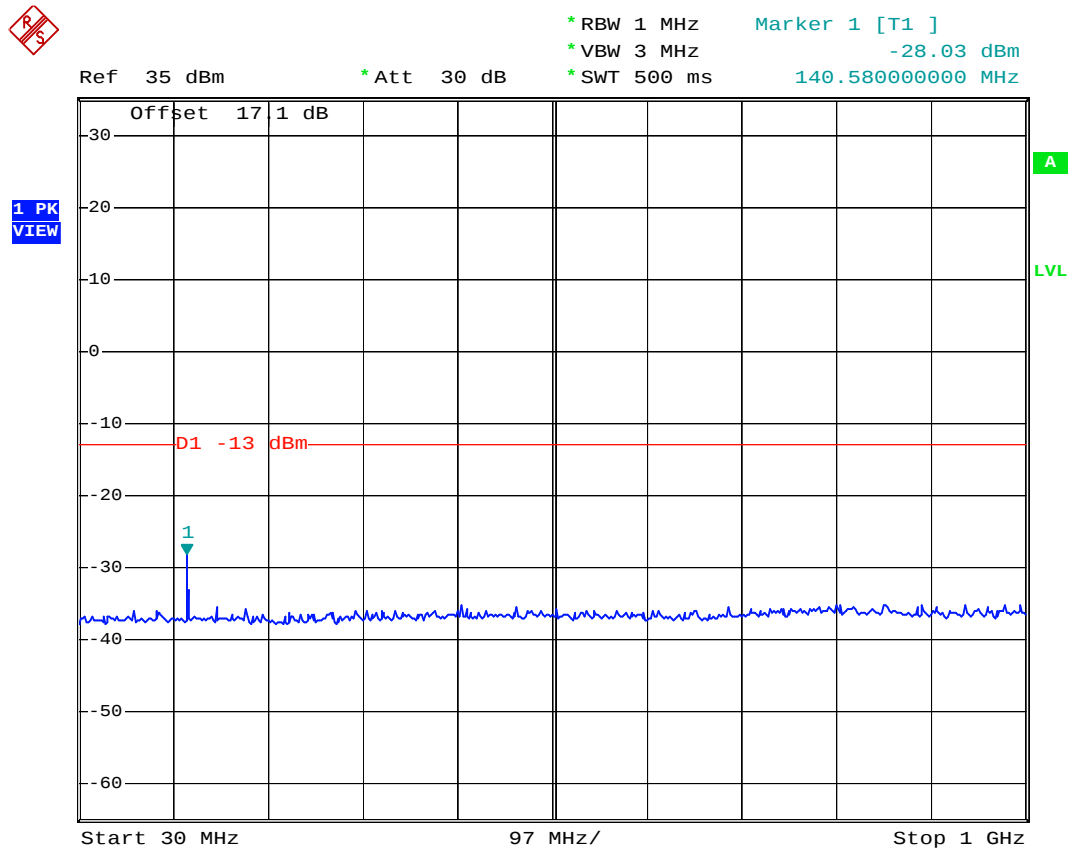
- Test Mode : GSM850 (EDGE) CH189
- Frequency Range : 7G-9G



Date: 11.JAN.2007 06:40:10



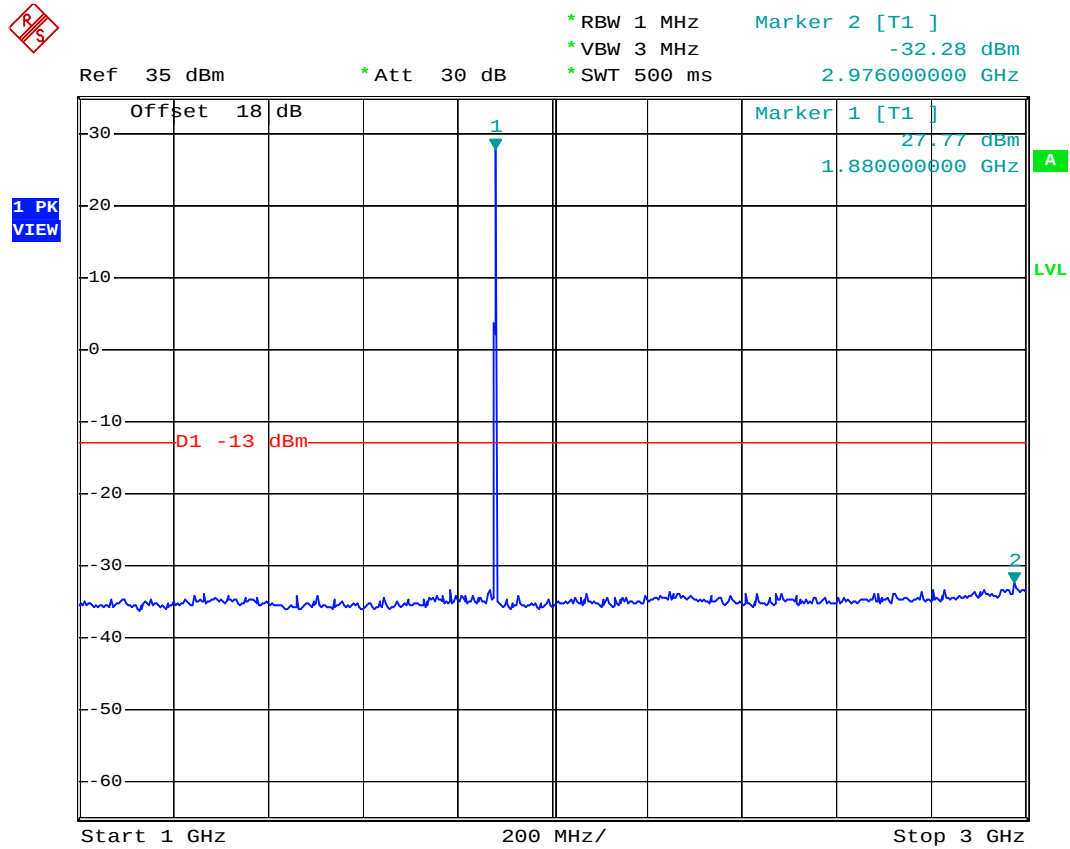
- Mode 3
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 30M-1G



Date: 6.JAN.2007 12:13:18



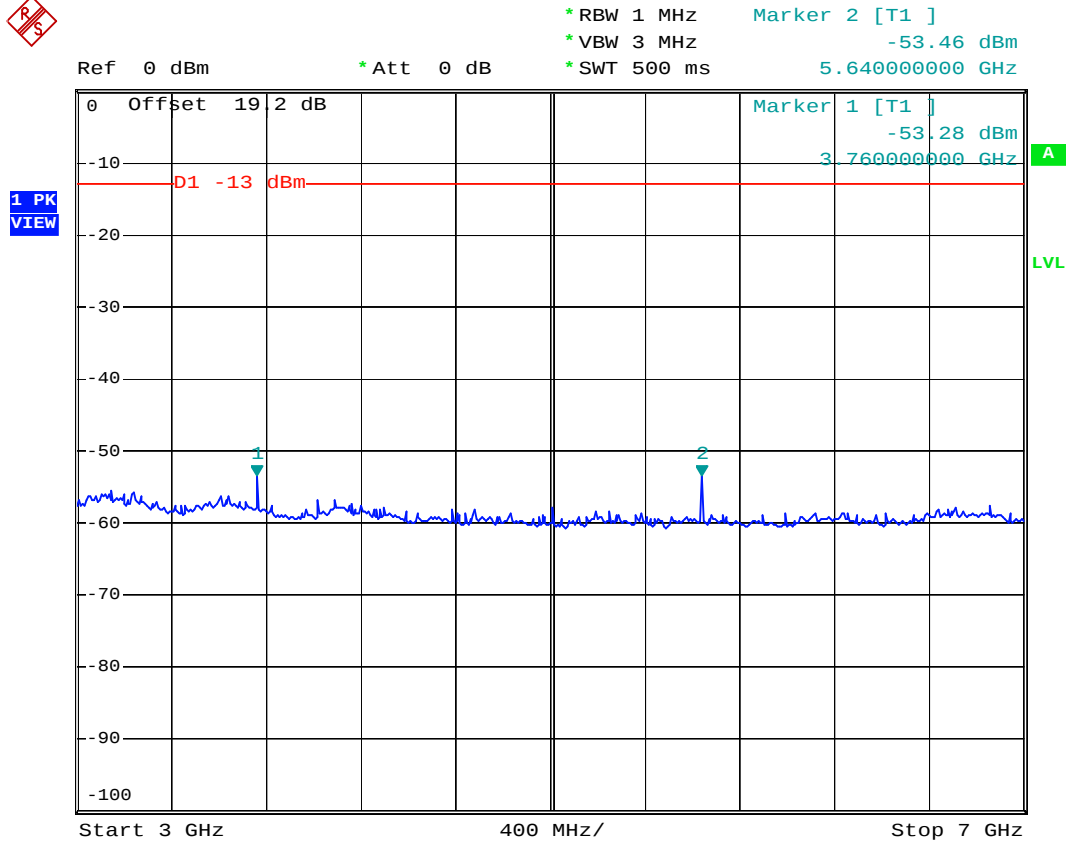
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 1G-3G



Date: 6.JAN.2007 12:15:21



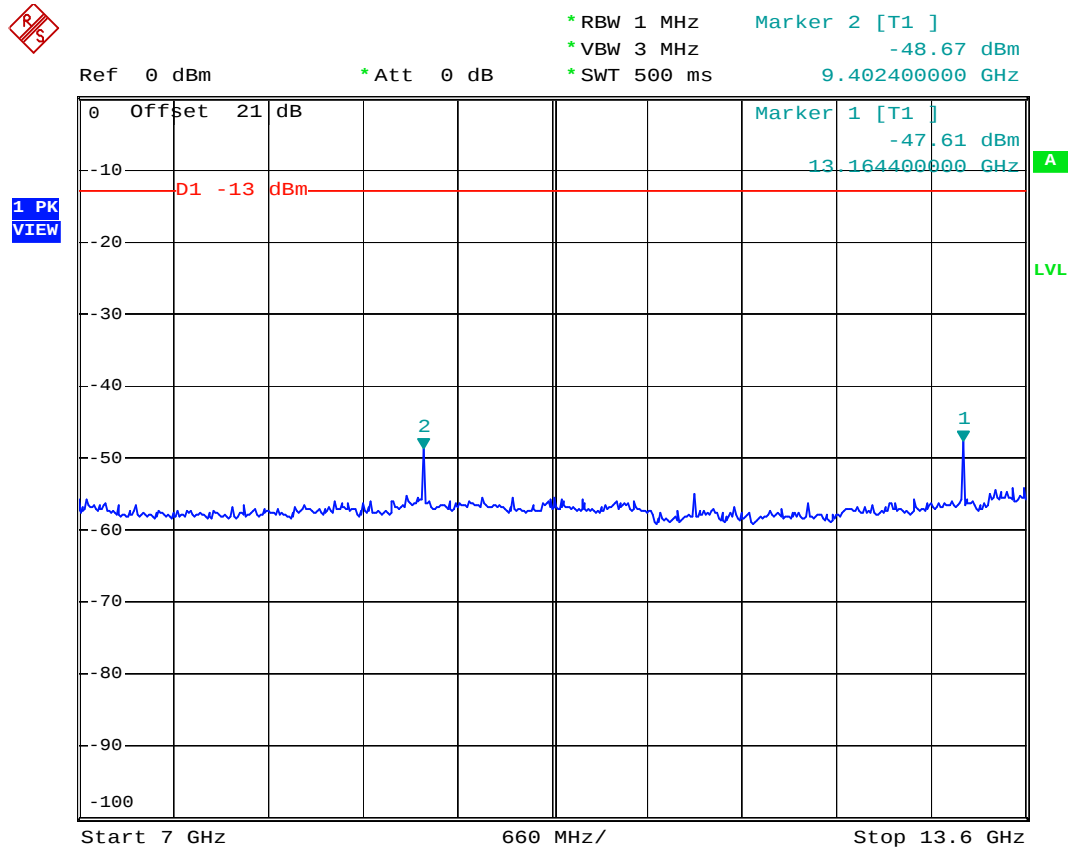
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 3G-7G



Date: 6.JAN.2007 12:16:26



- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 7G-13.6G



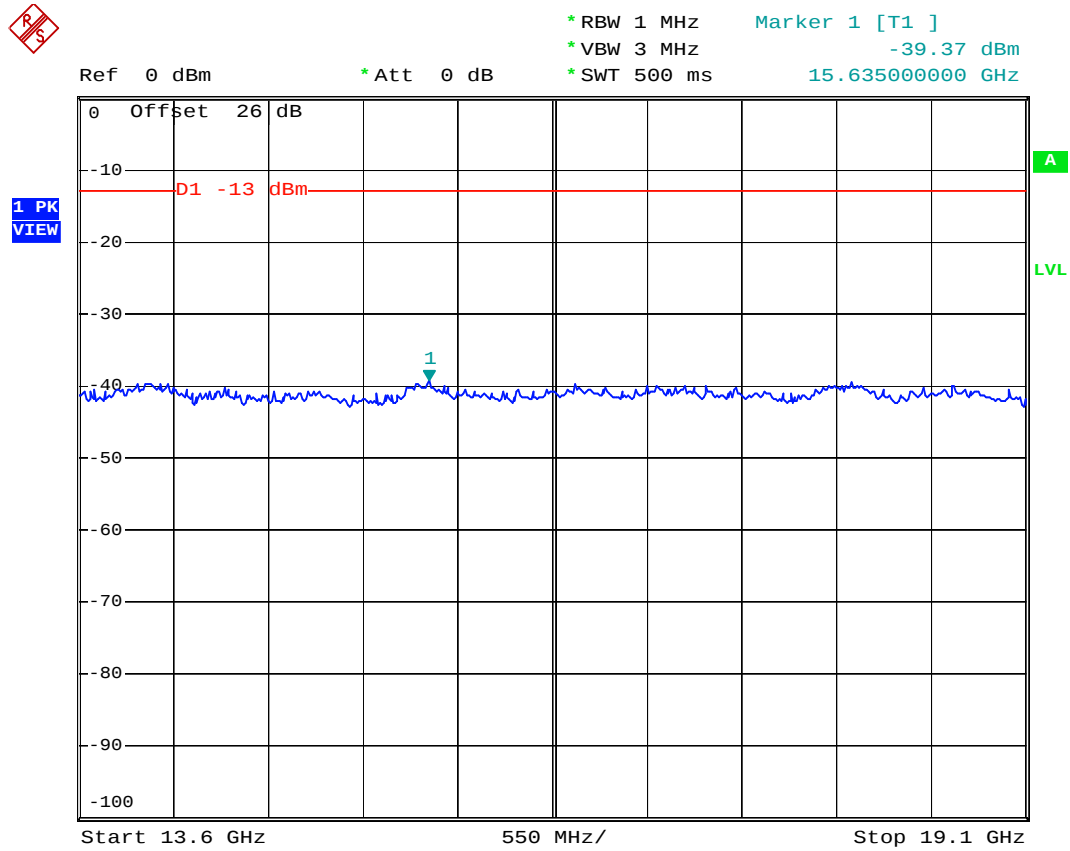
Date: 6.JAN.2007 12:17:25



FCC/IC TEST REPORT

Report No. : FG710513

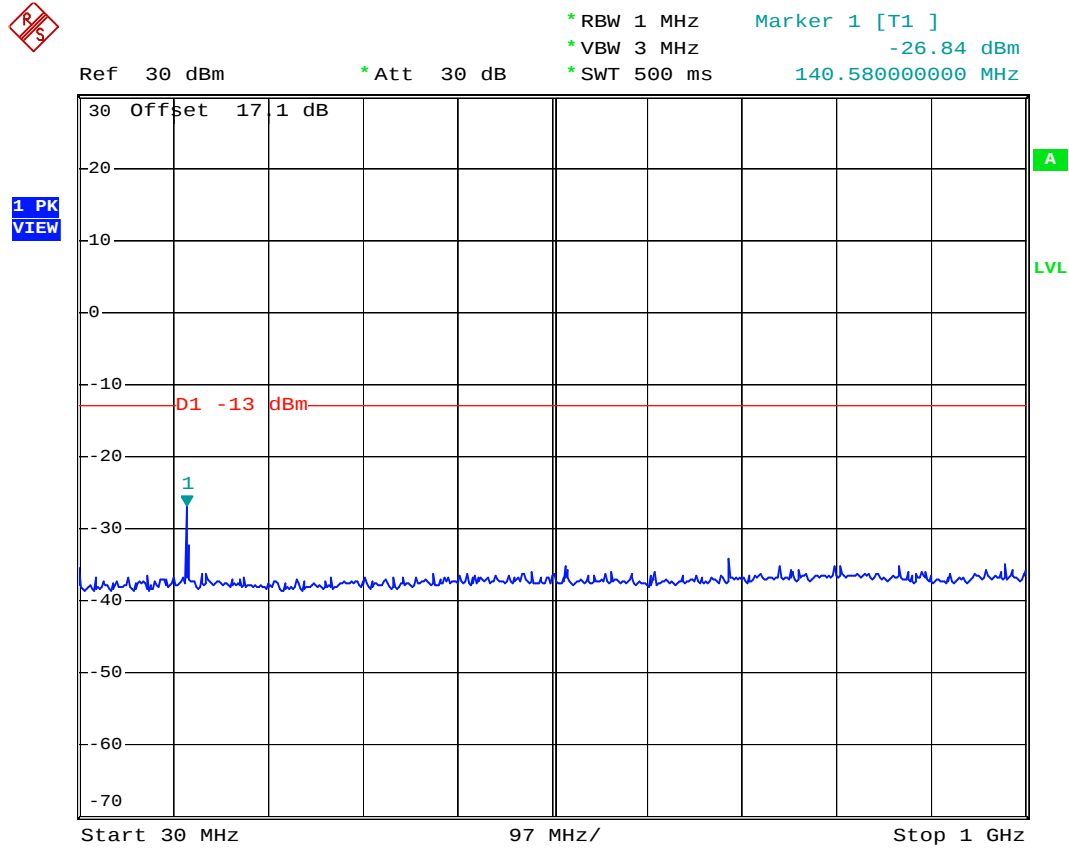
- Test Mode : PCS1900 (GSM) CH661
- Frequency Range : 13.6G-19.1G



Date: 6.JAN.2007 12:18:14



- Mode 4
- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 30M-1G



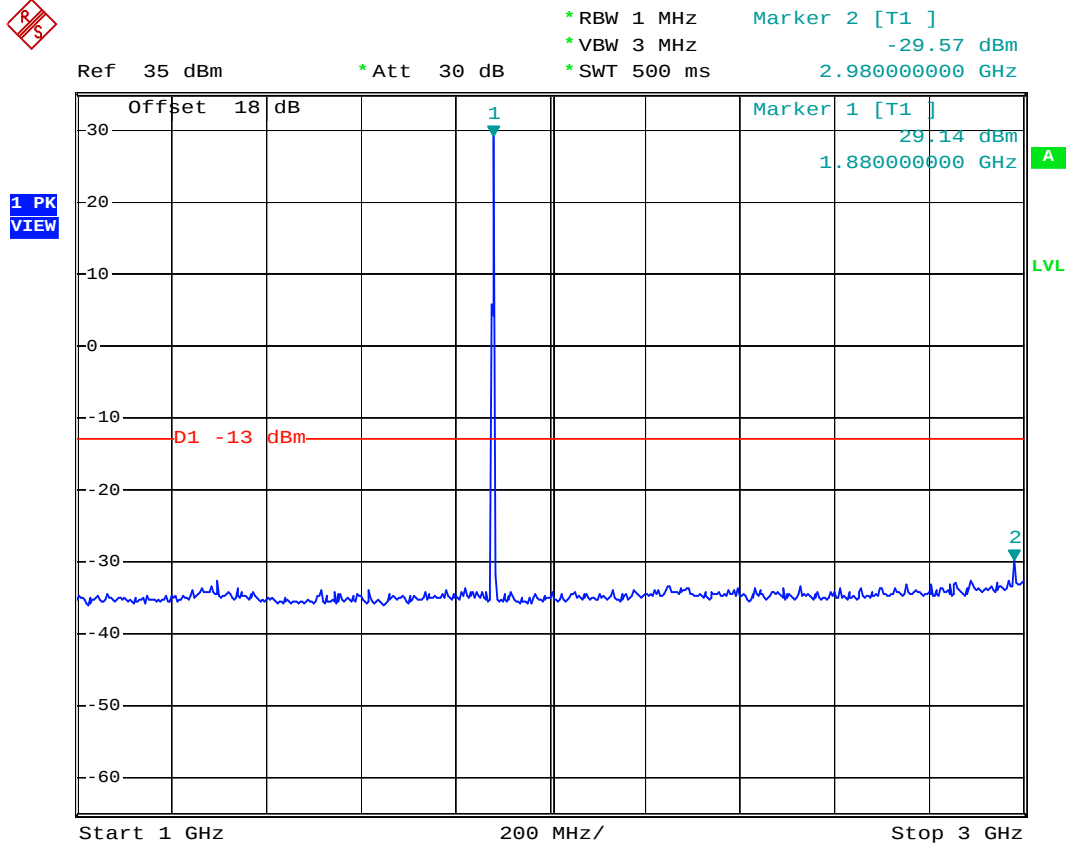
Date: 11.JAN.2007 06:43:16



FCC/IC TEST REPORT

Report No. : FG710513

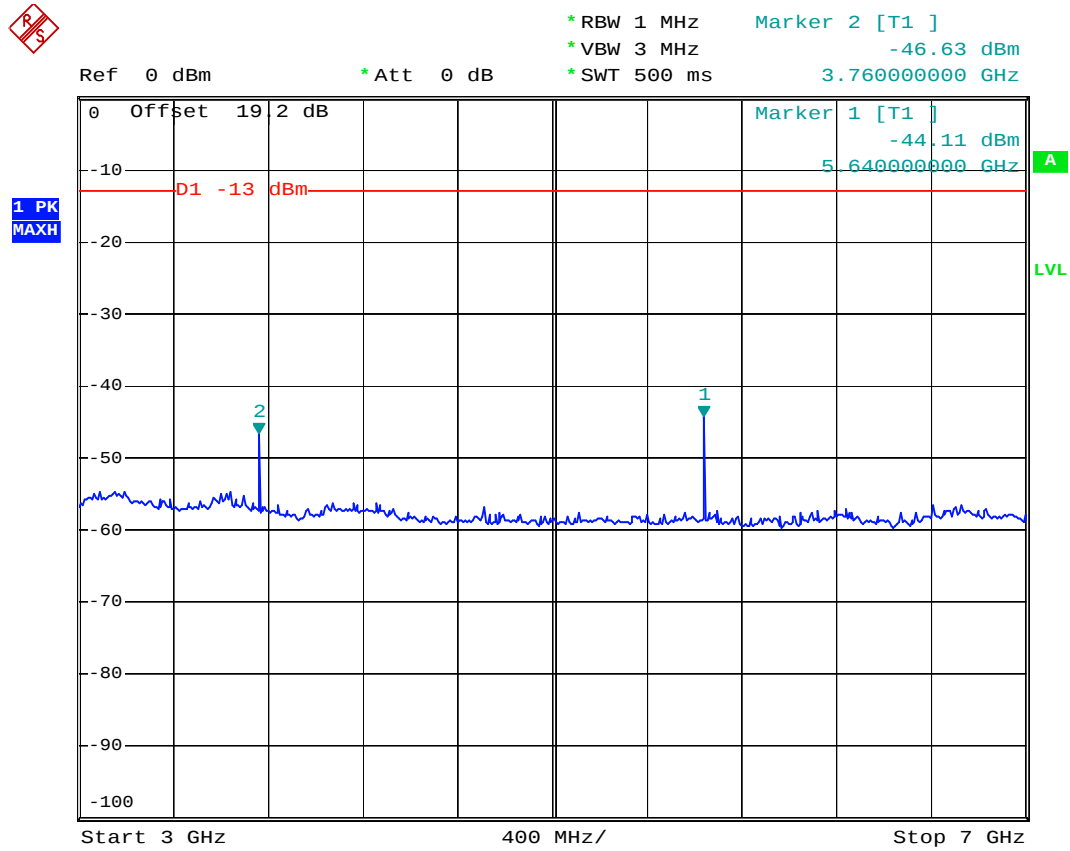
- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 1G-3G



Date: 11.JAN.2007 06:44:31



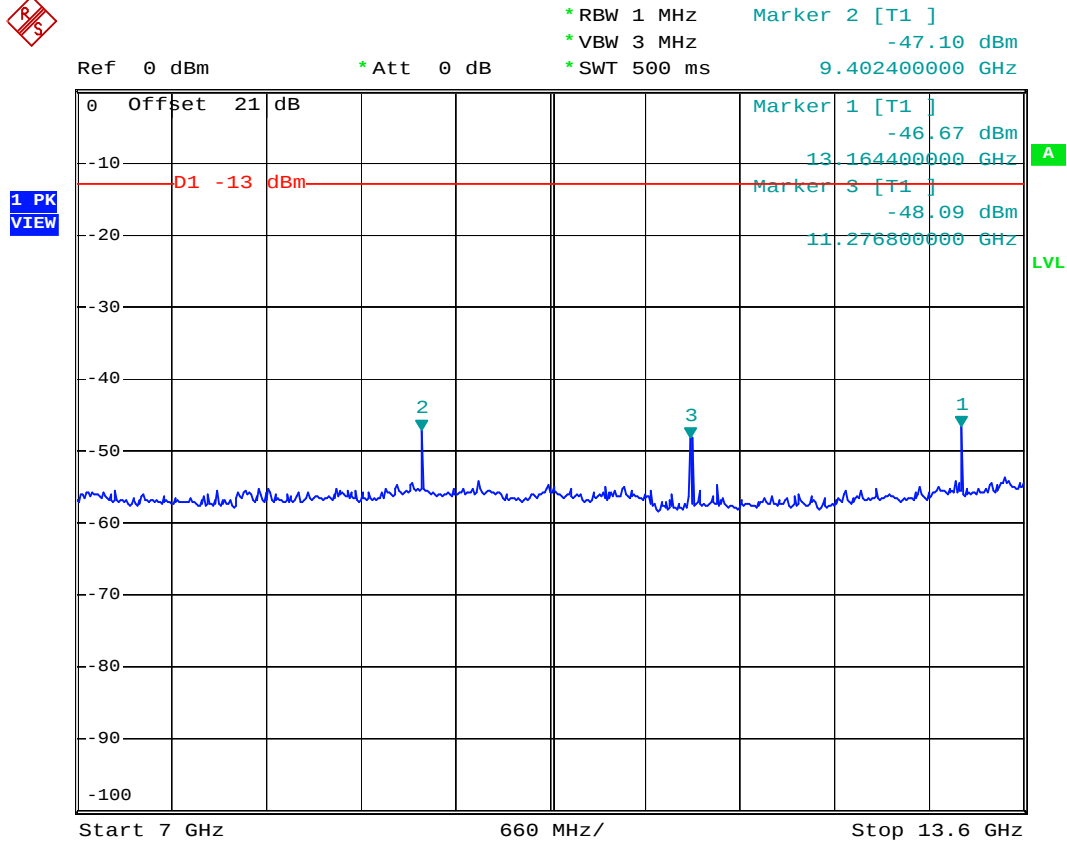
- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 3G-7G



Date: 11.JAN.2007 06:46:56



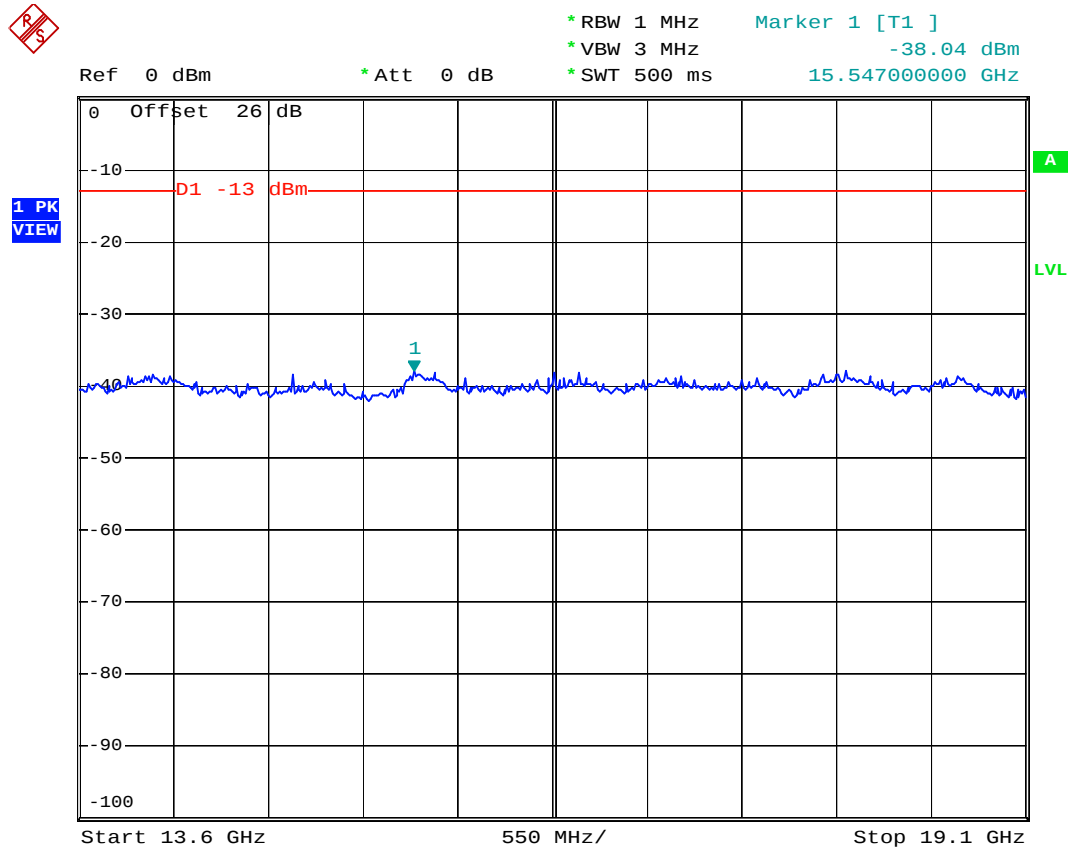
- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 7G-13.6G



Date: 11.JAN.2007 06:49:41



- Test Mode : PCS1900 (EDGE) CH661
- Frequency Range : 13.6G-19.1G



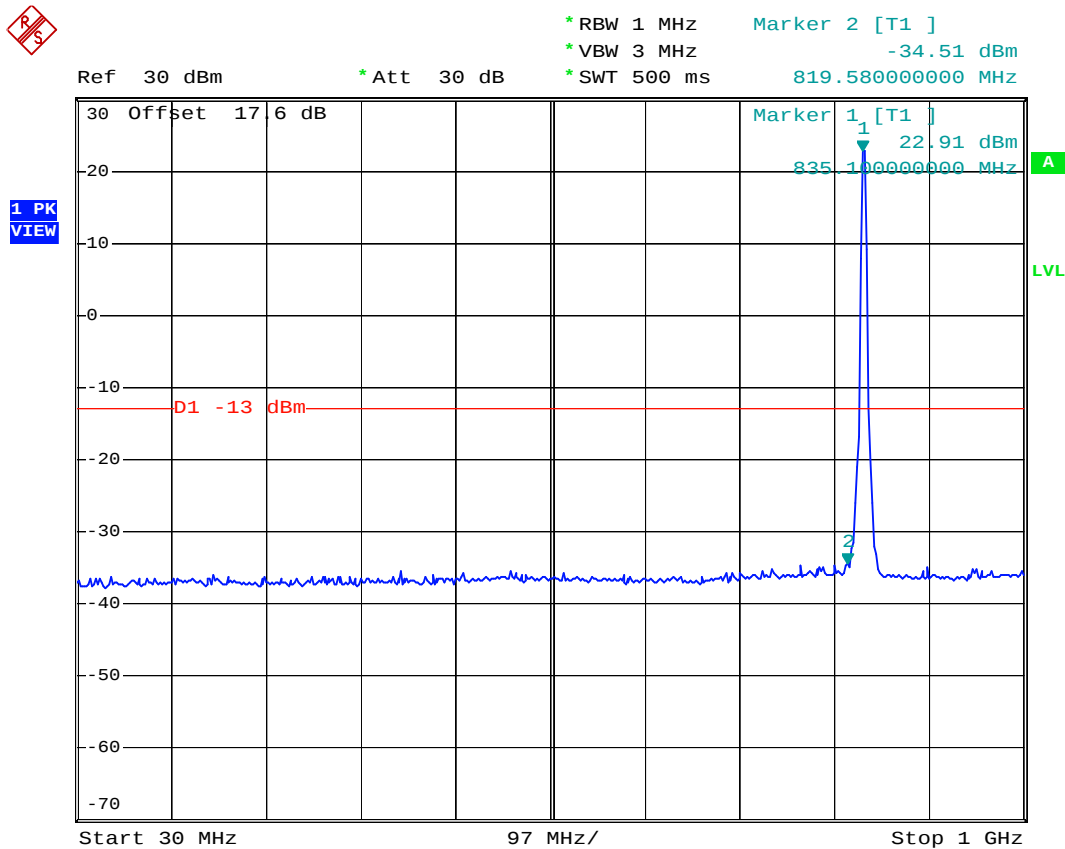
Date: 11.JAN.2007 06:50:55



FCC/IC TEST REPORT

Report No. : FG710513

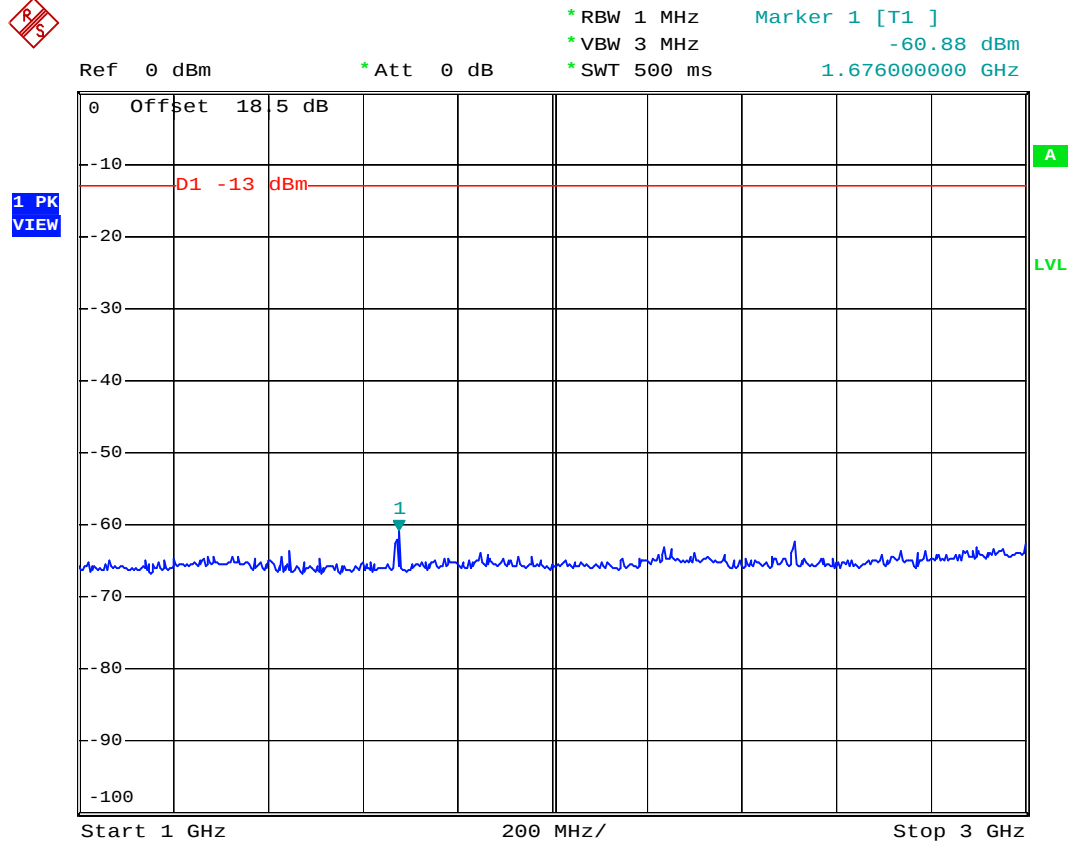
- Mode 5
- Test Mode : WCDMA Band V CH4182
- Frequency Range : 30M-1G



Date: 6.JAN.2007 16:16:22



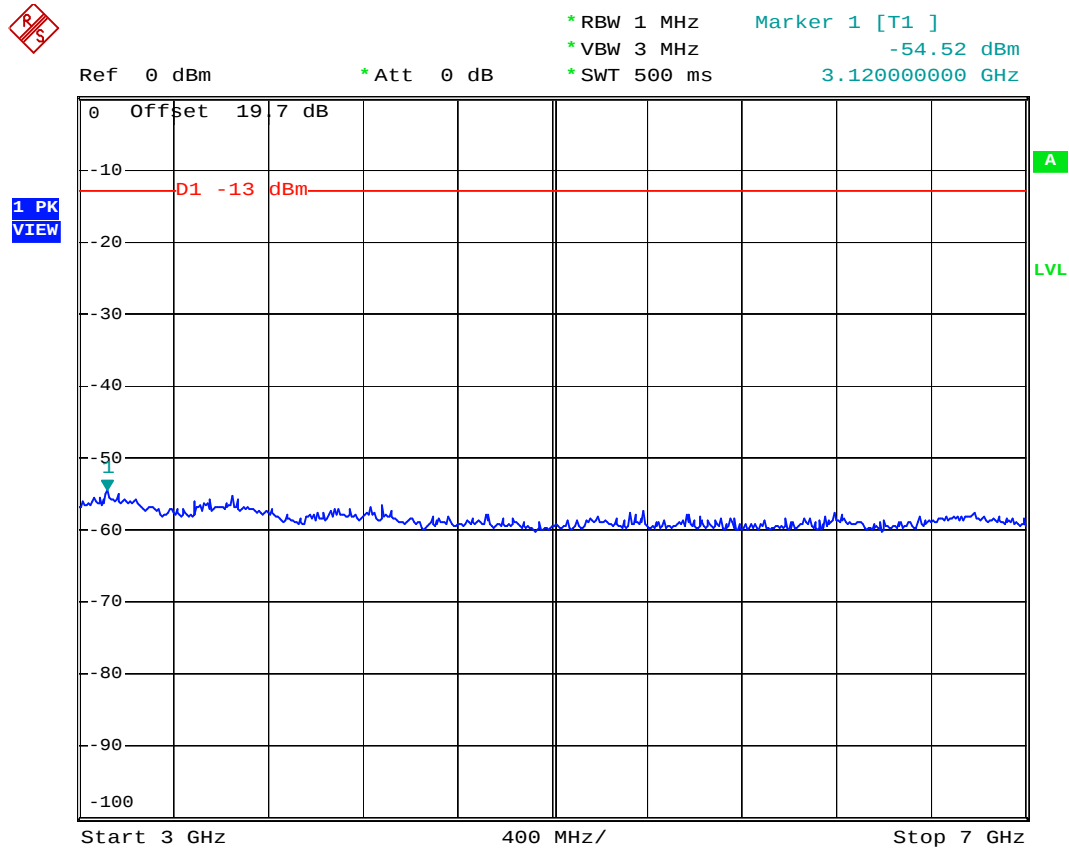
- Test Mode : WCDMA Band V CH4182
- Frequency Range : 1G-3G



Date: 6.JAN.2007 16:18:18



- Test Mode : WCDMA Band V CH4182
- Frequency Range : 3G-7G



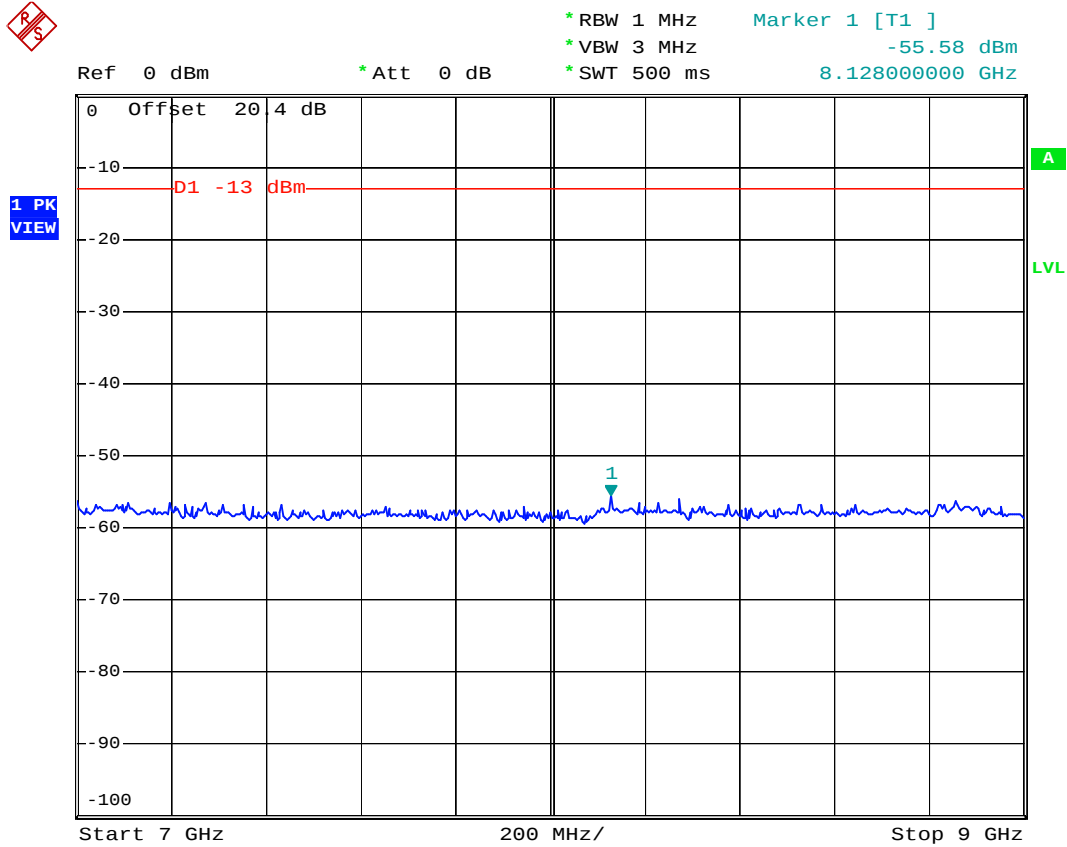
Date: 6.JAN.2007 16:19:37



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band V CH4182
- Frequency Range : 7G-9G



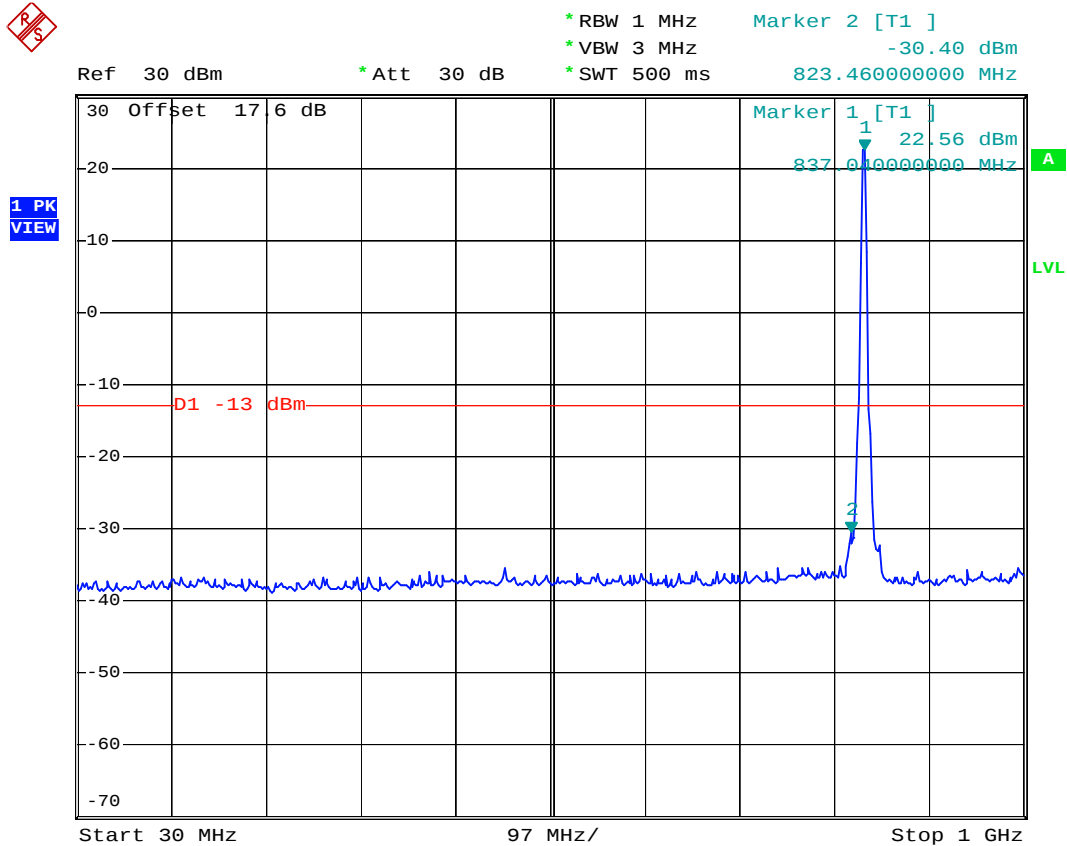
Date: 6.JAN.2007 16:20:52



FCC/IC TEST REPORT

Report No. : FG710513

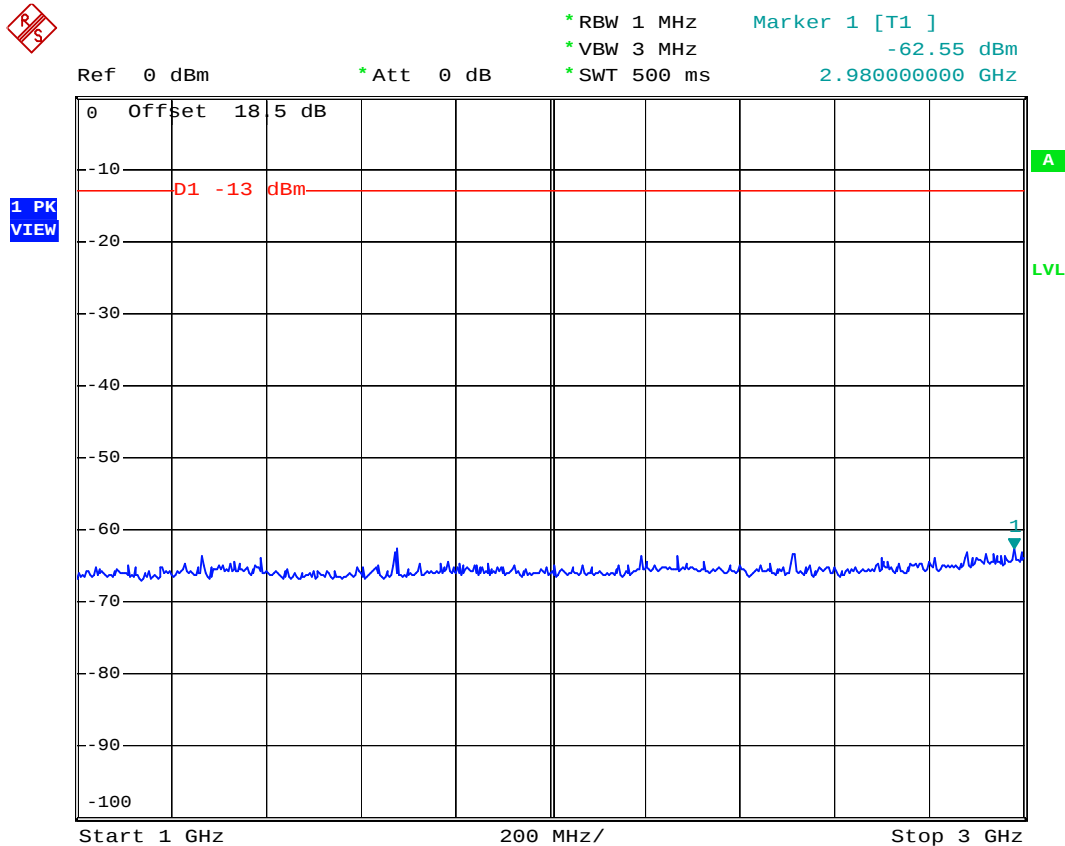
- Mode 6
- Test Mode : WCDMA Band V (HSDPA) CH4182
- Frequency Range : 30M-1G



Date: 6.JAN.2007 19:22:10



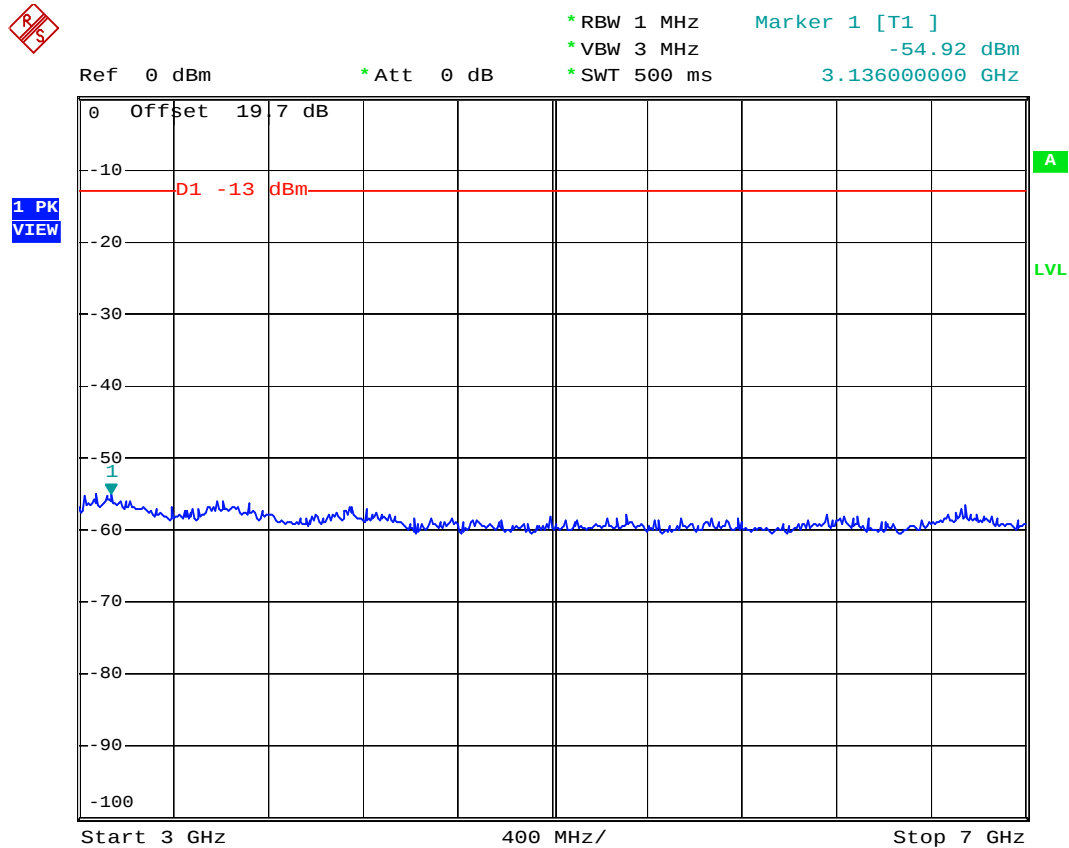
- Test Mode : WCDMA Band V (HSDPA) CH4182
- Frequency Range : 1G-3G



Date: 6.JAN.2007 19:23:44



- Test Mode : WCDMA Band V (HSDPA) CH4182
- Frequency Range : 3G-7G



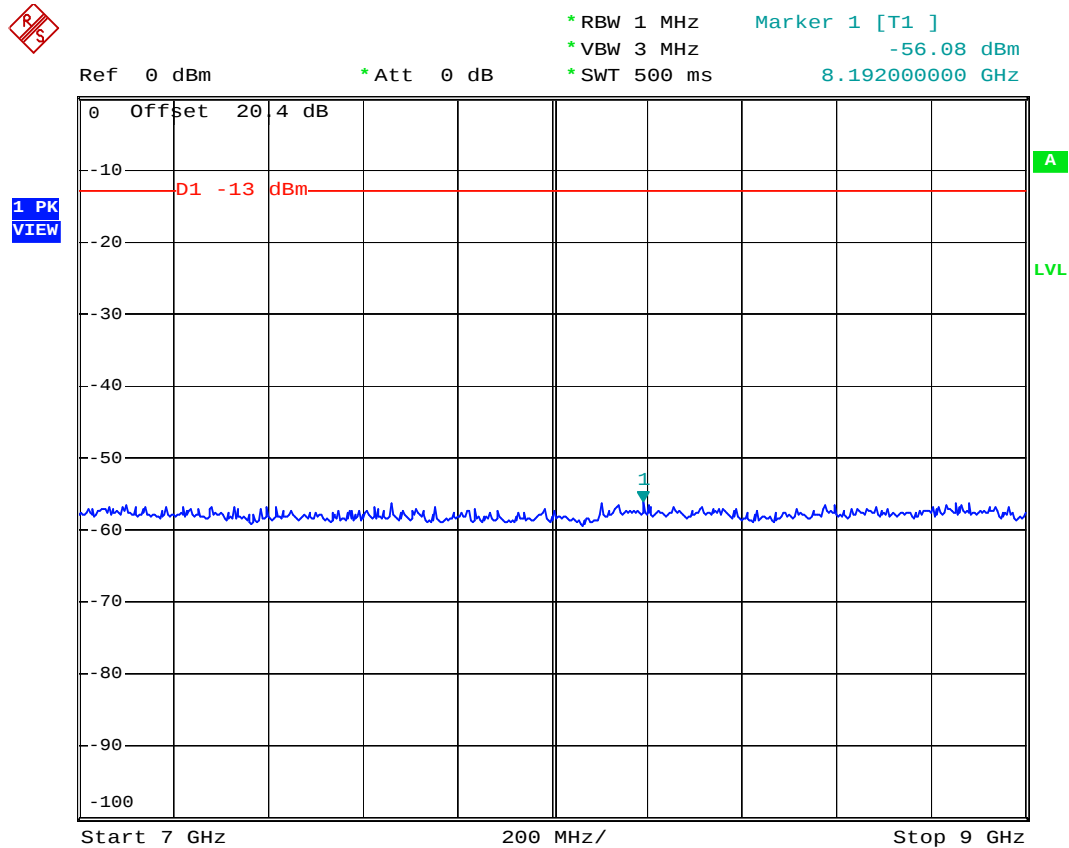
Date: 6.JAN.2007 19:24:43



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band V (HSDPA) CH4182
- Frequency Range : 7G-9G



Date: 6.JAN.2007 19:25:48

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : NBZNR-EU860D

IC ID : 3229A-EU860D

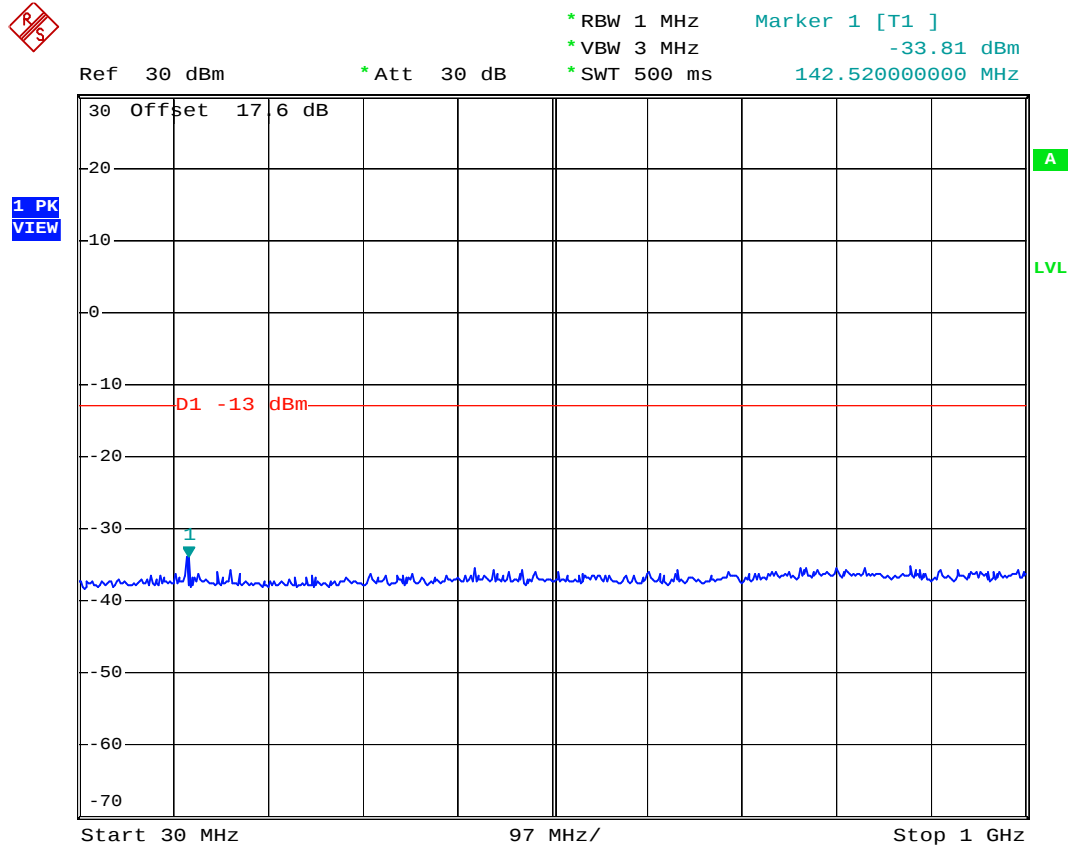
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- Mode 7
- Test Mode : WCDMA Band II CH9400
- Frequency Range : 30M-1G



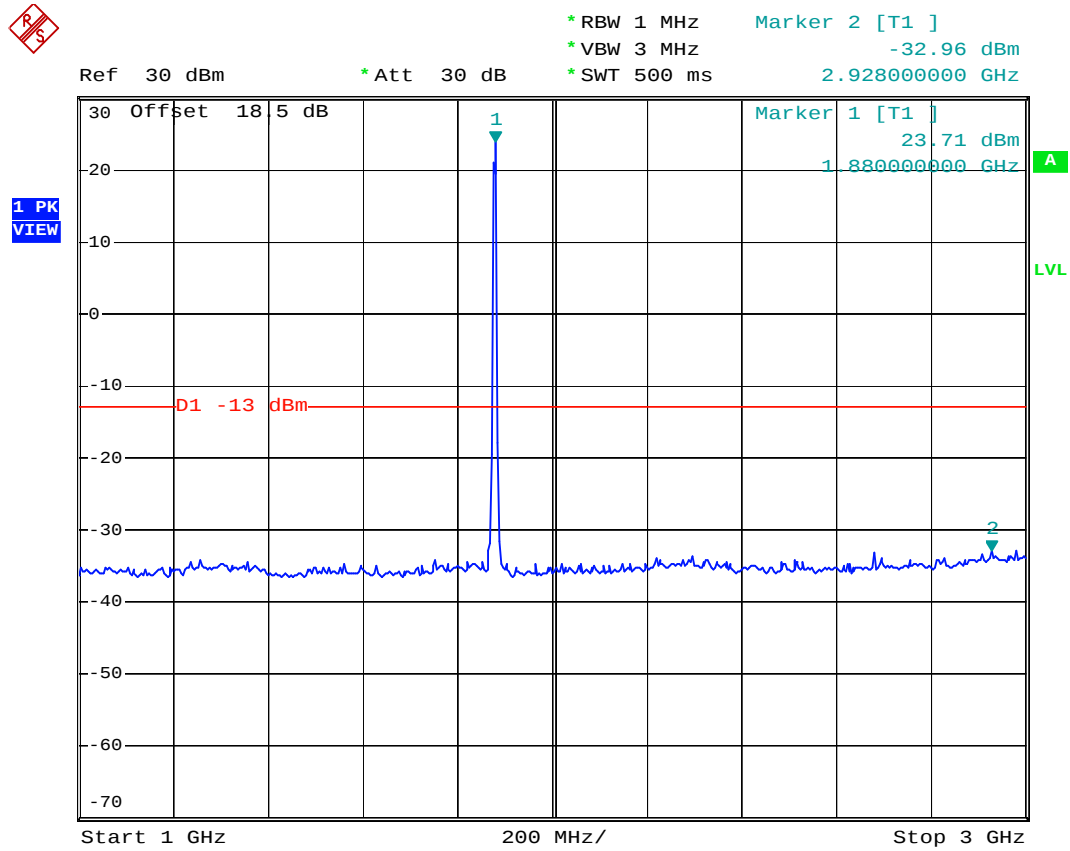
Date: 6.JAN.2007 16:48:28



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band II CH9400
- Frequency Range : 1G-3G



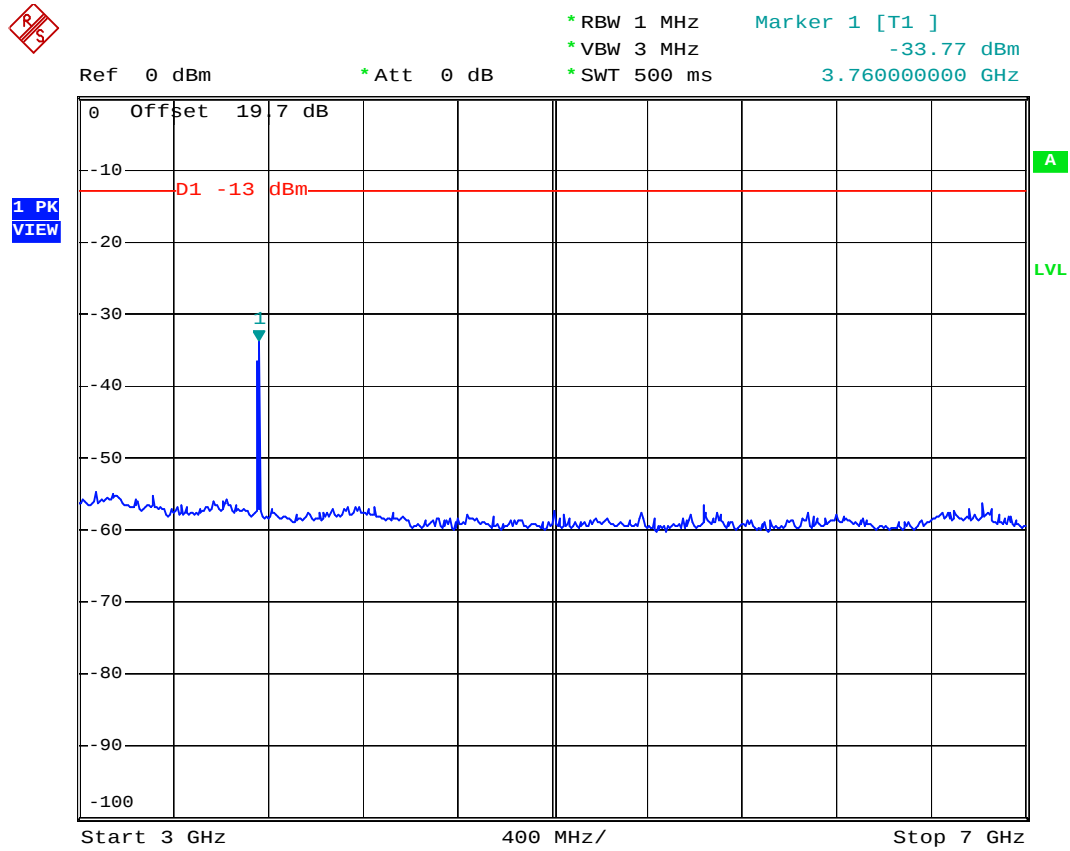
Date: 6.JAN.2007 16:49:49



FCC/IC TEST REPORT

Report No. : FG710513

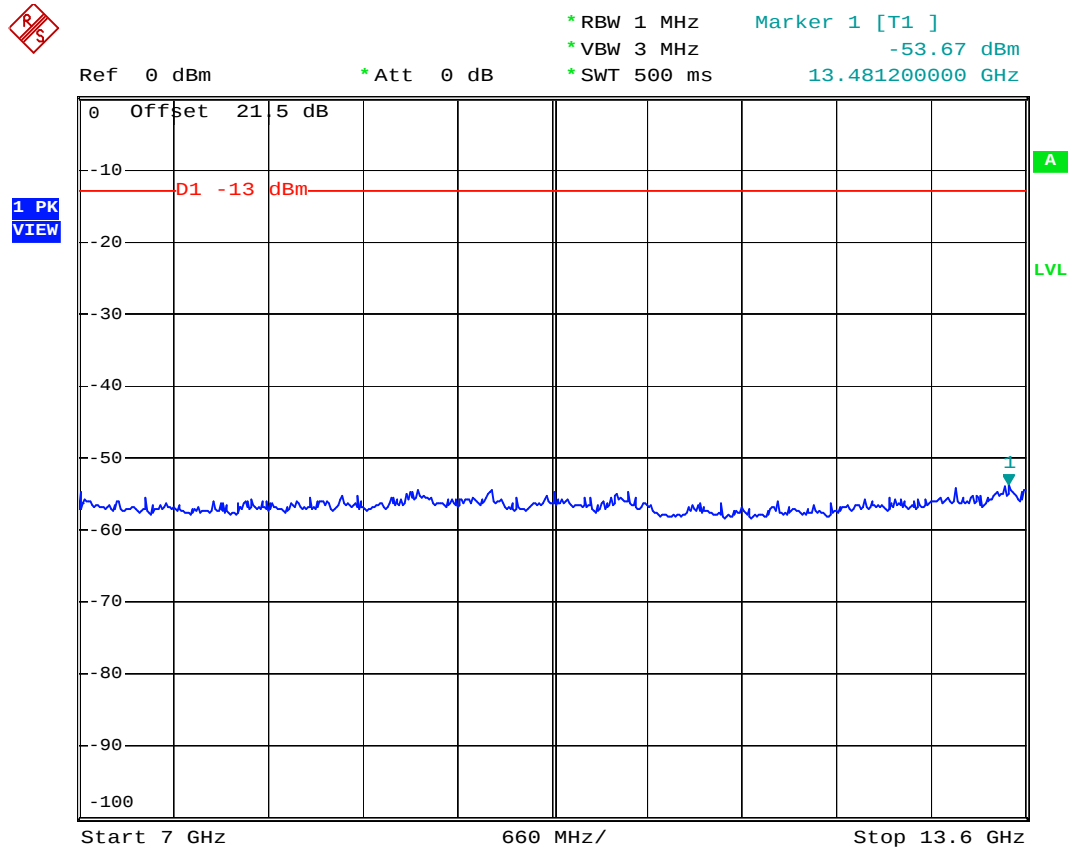
- Test Mode : WCDMA Band II CH9400
- Frequency Range : 3G-7G



Date: 6.JAN.2007 16:50:40



- Test Mode : WCDMA Band II CH9400
- Frequency Range : 7G-13.6G



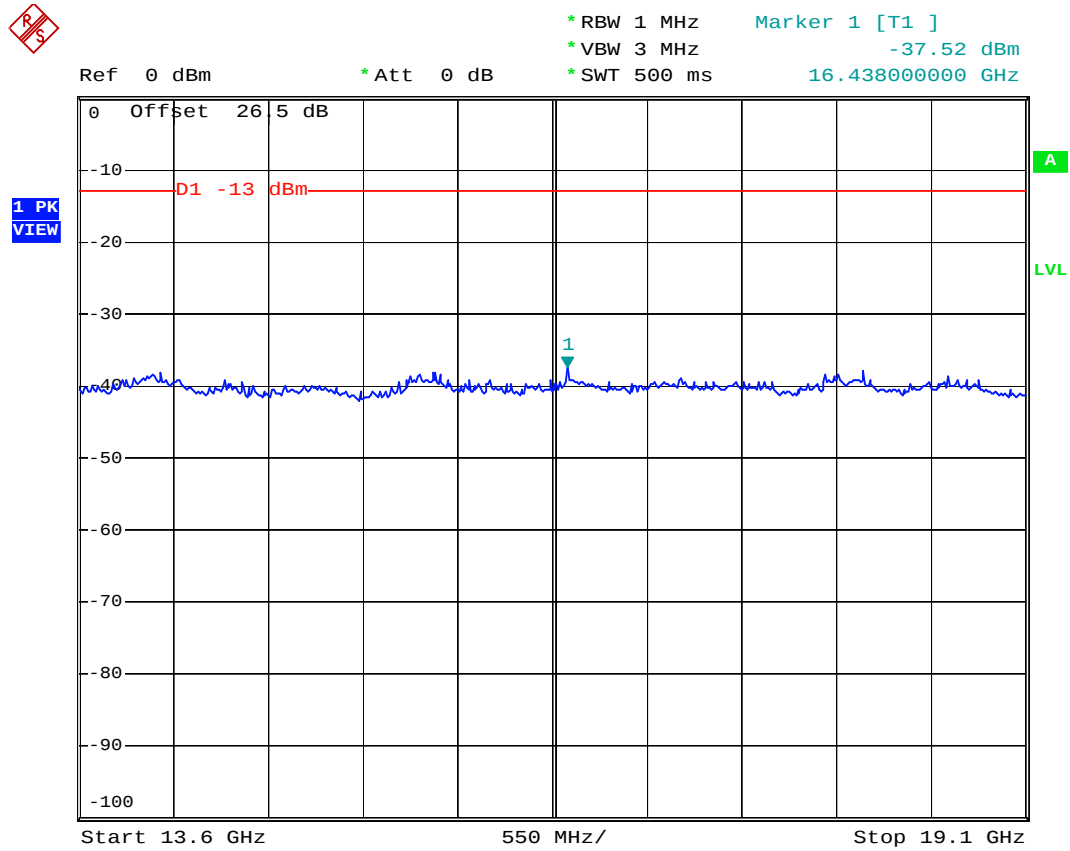
Date: 6.JAN.2007 16:51:37



FCC/IC TEST REPORT

Report No. : FG710513

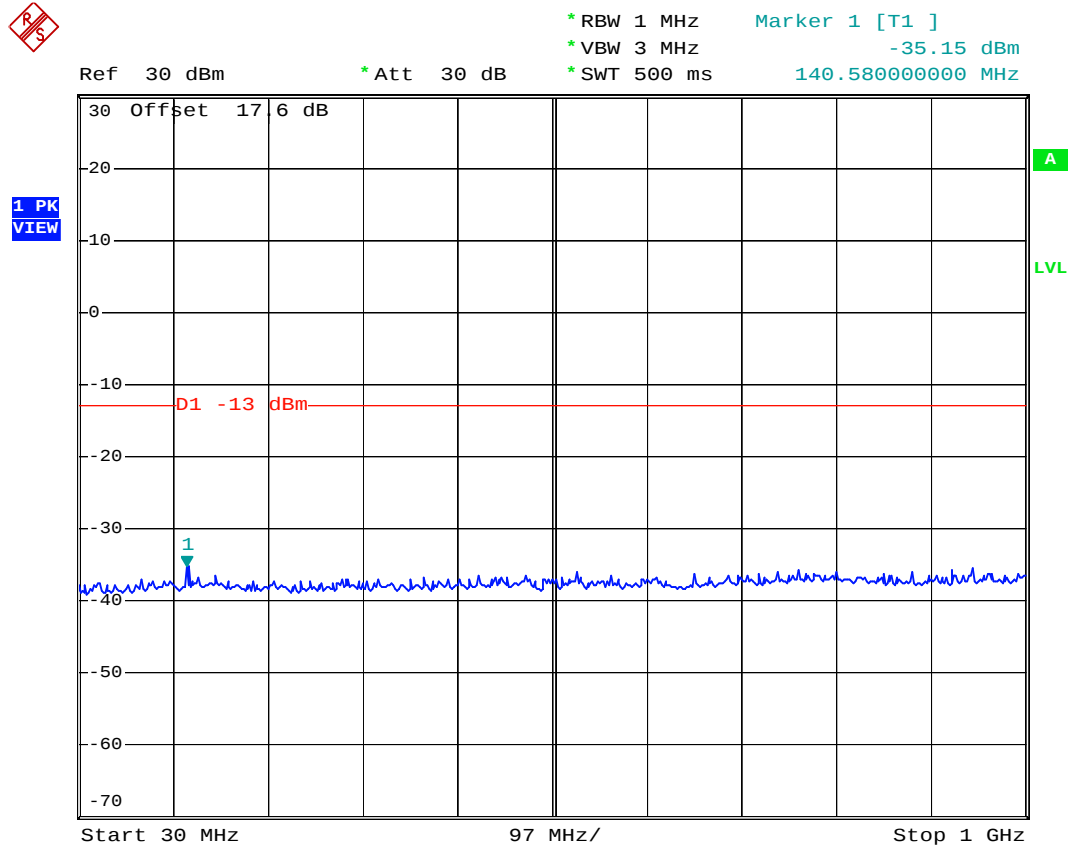
- Test Mode : WCDMA Band II CH9400
- Frequency Range : 13.6G-19.1G



Date: 6.JAN.2007 16:52:37



- Mode 8
- Test Mode : WCDMA Band II (HSDPA) CH9400
- Frequency Range : 30M-1G



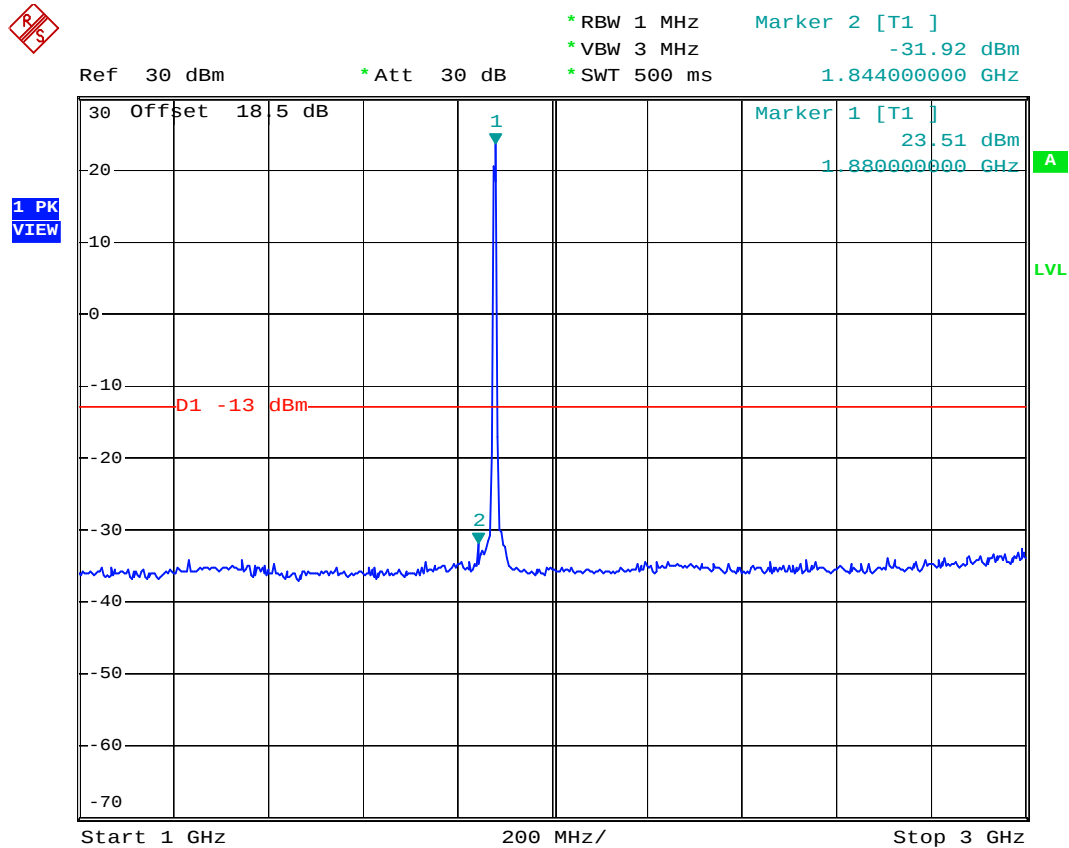
Date: 6.JAN.2007 19:50:29



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band II (HSDPA) CH9400
- Frequency Range : 1G-3G



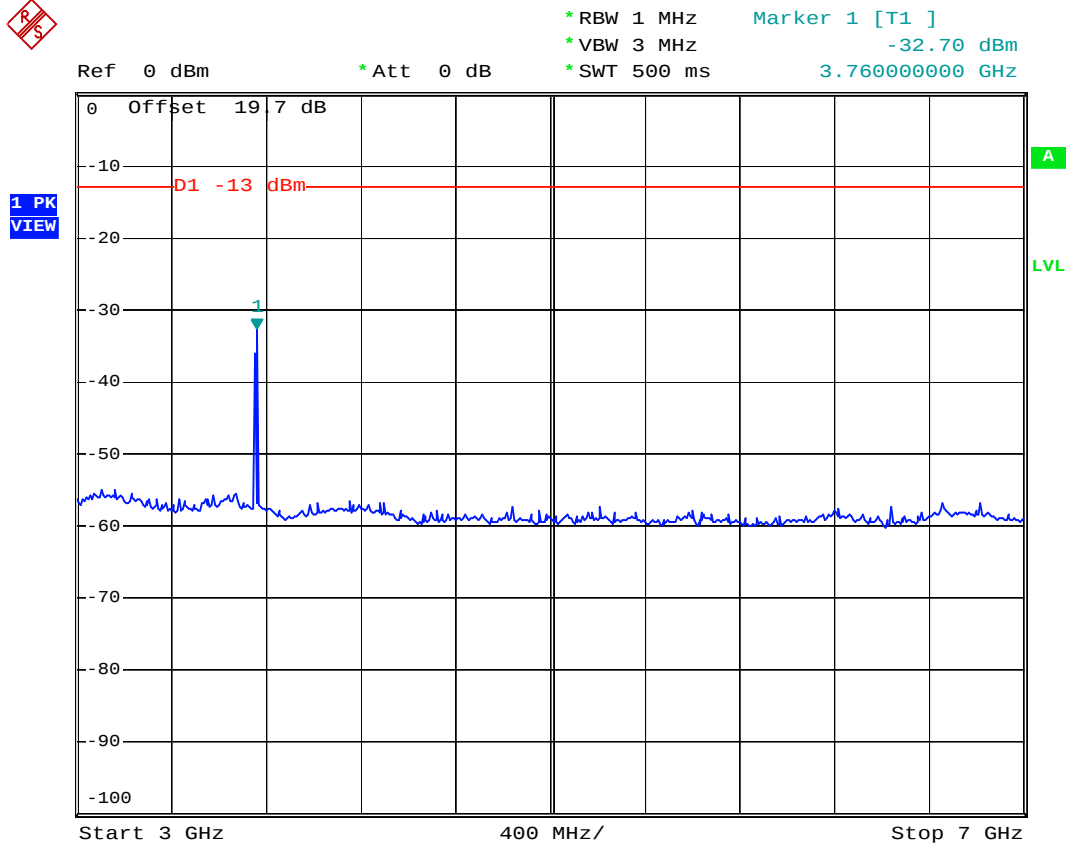
Date: 6.JAN.2007 19:52:31



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band II (HSDPA) CH9400
- Frequency Range : 3G-7G



Date: 6.JAN.2007 19:53:55

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID : NBZNR-EU860D

IC ID : 3229A-EU860D

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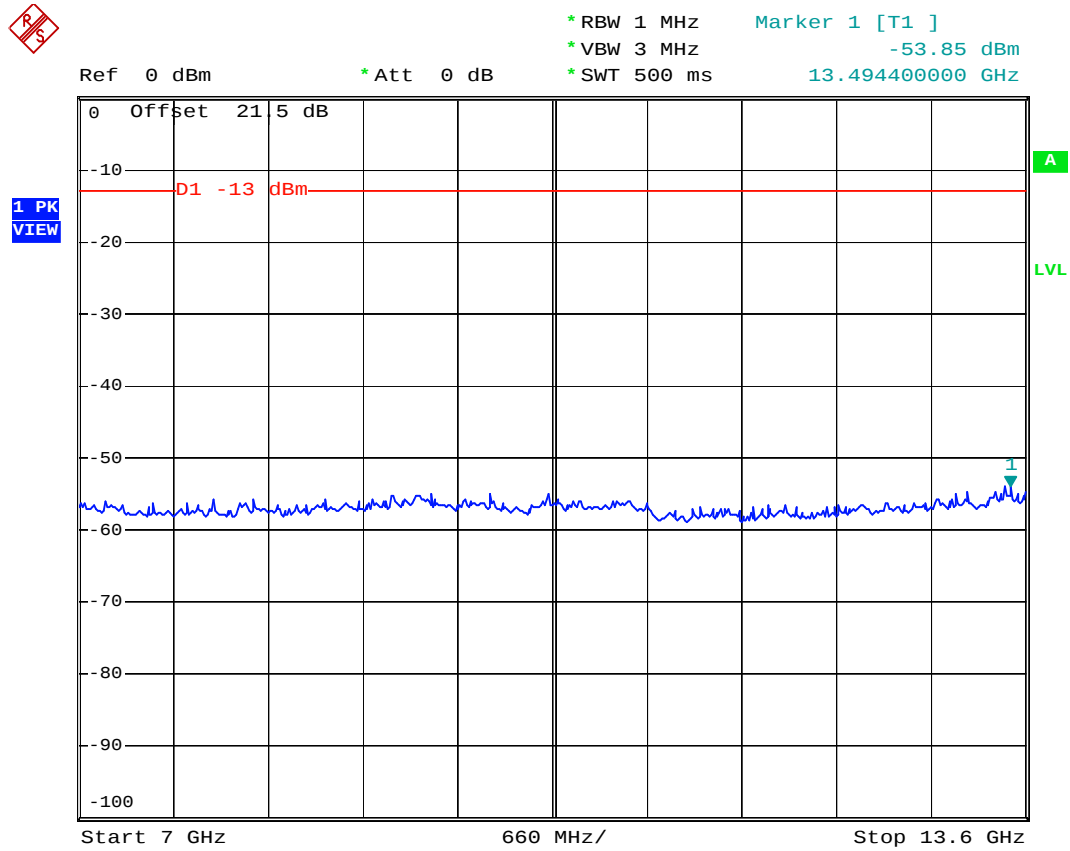
Report Version : Rev. 01



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band II (HSDPA) CH9400
- Frequency Range : 7G-13.6G



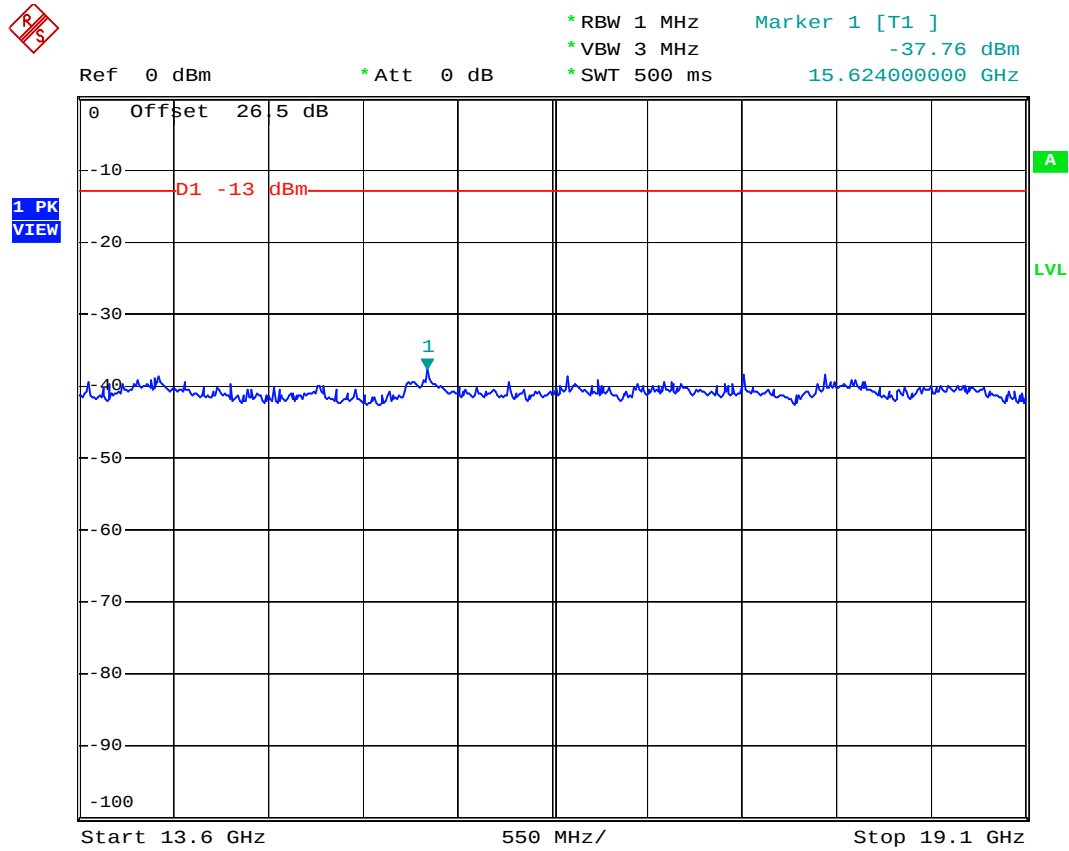
Date: 6.JAN.2007 19:55:31



FCC/IC TEST REPORT

Report No. : FG710513

- Test Mode : WCDMA Band II (HSDPA) CH9400
- Frequency Range : 13.6G-19.1G



Date: 6.JAN.2007 19:56:13

4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-A.

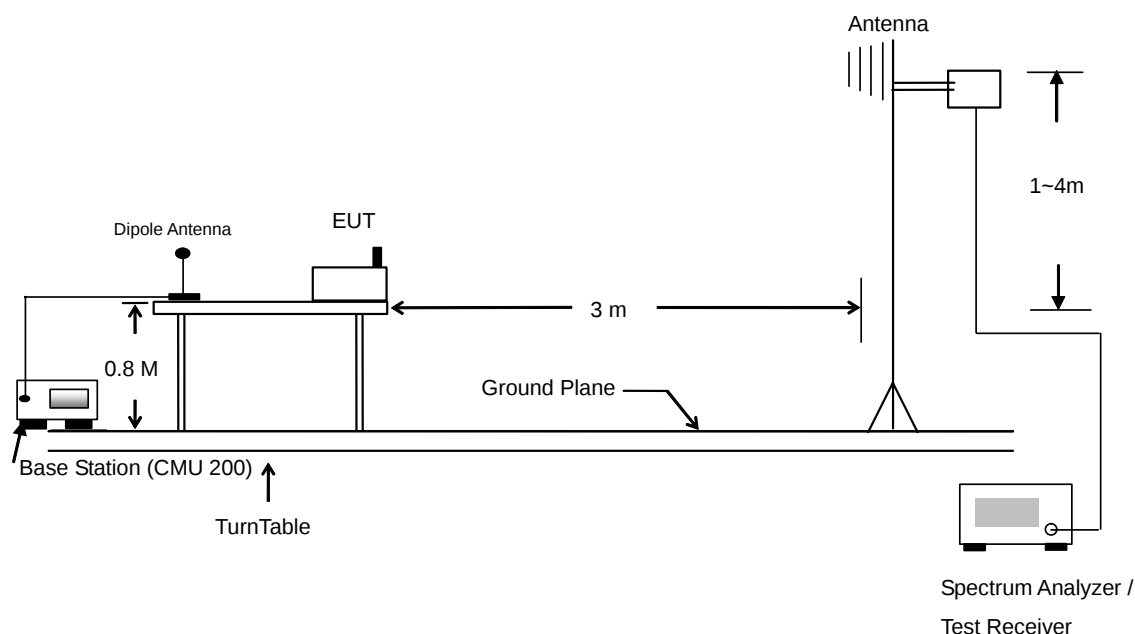
4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

4.6.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about 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 reach the maximum spurious emission for both horizontal and vertical polarizations.
5. 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. Emission level (dBm) = output power + substitution Gain.

4.6.3 Test Setup Layout



4.6.4 Test Result

- Test Mode : Mode 1

GSM850 (GSM) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
60.240	-52.330	-13	-39.33	61.590	-46.470	-13	-33.47
87.240	-50.110	-13	-37.11	92.640	-47.770	-13	-34.77
103.440	-55.610	-13	-42.61	159.330	-49.780	-13	-36.78
318.900	-66.020	-13	-53.02	323.800	-64.880	-13	-51.88
1674.000	-60.180	-13	-47.18	1674.000	-58.110	-13	-45.11

Remark: There's no more obvious spurious emission except the listings above.

- Test Mode : Mode 2

GSM850 (EDGE) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
62.940	-52.070	-13	-39.07	38.640	-48.840	-13	-35.84
84.540	-52.380	-13	-39.38	71.040	-47.860	-13	-34.86
153.930	-53.880	-13	-40.88	156.090	-47.050	-13	-34.05
325.900	-67.170	-13	-54.17	323.800	-65.430	-13	-52.43
873.300	-43.160	-13	-30.16	873.300	-42.470	-13	-29.47
				1674.000	-53.900	-13	-40.90
				2508.000	-53.870	-13	-40.87

Remark: There's no more obvious spurious emission except the listings above.

- Test Mode : Mode 3

PCS1900 (GSM) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
60.240	-50.360	-13	-37.36	64.290	-45.040	-13	-32.04
87.240	-47.940	-13	-34.94	87.780	-44.860	-13	-31.86
103.440	-51.750	-13	-38.75	93.180	-44.220	-13	-31.22
316.800	-61.250	-13	-48.25	316.800	-57.970	-13	-44.97
323.800	-62.700	-13	-49.70	827.800	-62.140	-13	-49.14
337.800	-63.520	-13	-50.52	990.900	-61.720	-13	-48.72
9398.000	-35.260	-13	-22.26	9398.000	-38.030	-13	-25.03
				11278.000	-40.000	-13	-27.00
				13158.000	-45.030	-13	-32.03

- Test Mode : Mode 4

PCS1900 (EDGE) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
62.940	-50.500	-13	-37.50	37.830	-47.880	-13	-34.88
83.190	-49.150	-13	-36.15	71.580	-46.130	-13	-33.13
103.440	-53.860	-13	-40.86	158.790	-50.740	-13	-37.74
320.300	-64.260	-13	-51.26	320.300	-60.030	-13	-47.03
913.900	-64.120	-13	-51.12	850.900	-61.550	-13	-48.55
994.400	-63.530	-13	-50.53	981.800	-61.160	-13	-48.16
9398.000	-40.450	-13	-27.45	3758.000	-52.750	-13	-39.75
11278.000	-38.880	-13	-25.88	9398.000	-36.230	-13	-23.23
				11278.000	-35.180	-13	-22.18
				13158.000	-44.650	-13	-31.65

- Test Mode : Mode 5

WCDMA Band V Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
73.740	-55.040	-13	-42.04	73.740	-46.150	-13	-33.15
109.380	-63.580	-13	-50.58	98.580	-53.040	-13	-40.04
135.030	-67.500	-13	-54.50	211.440	-64.310	-13	-51.31
962.900	-65.720	-13	-52.72	992.300	-63.820	-13	-50.82
1198.000	-53.710	-13	-40.71	2698.000	-53.010	-13	-40.01

- Test Mode : Mode 6

WCDMA Band V (HSDPA) Radiated Spurious ERP							
H Polarization				V Polarization			
Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)
60.780	-57.670	-13	-44.67	33.240	-58.140	-13	-45.14
72.930	-54.830	-13	-41.83	70.230	-51.620	-13	-38.62
93.180	-56.830	-13	-43.83	91.290	-57.840	-13	-44.84
393.800	-71.040	-13	-58.04	729.800	-62.200	-13	-49.20

- Test Mode : Mode 7

WCDMA Band II Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
48.630	-60.390	-13	-47.39	73.740	-44.210	-13	-31.21
74.280	-52.890	-13	-39.89	134.490	-60.190	-13	-47.19
109.380	-62.750	-13	-49.75	211.980	-61.820	-13	-48.82
633.900	-66.950	-13	-53.95	798.400	-62.640	-13	-49.64
861.400	-64.790	-13	-51.79	890.800	-61.360	-13	-48.36
994.400	-63.940	-13	-50.94	983.900	-61.110	-13	-48.11
1058.000	-51.000	-13	-38.00	3758.000	-40.330	-13	-27.33
3764.000	-40.000	-13	-27.00	9404.000	-39.340	-13	-26.34
9394.000	-40.970	-13	-27.97				

- Test Mode : Mode 8

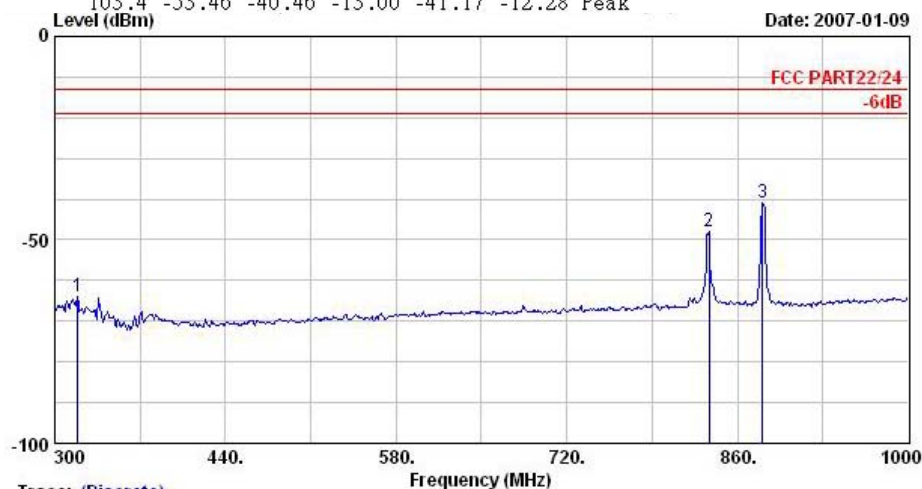
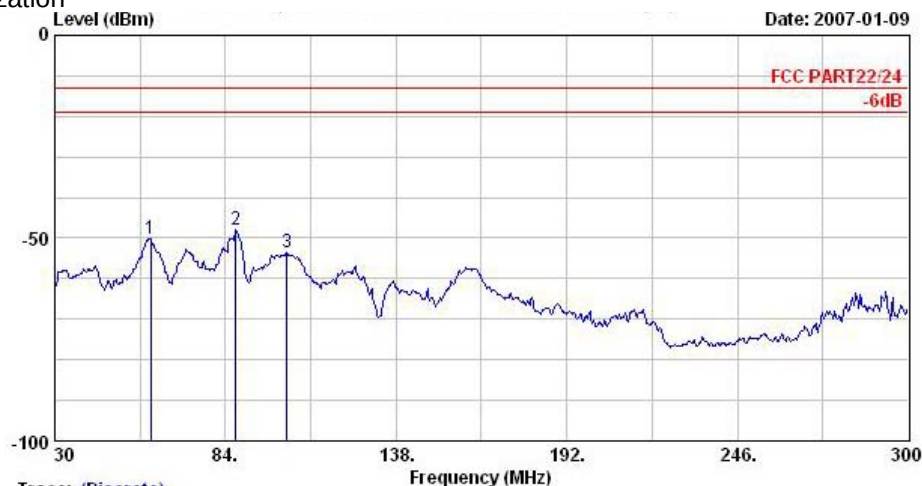
WCDMA Band II (HSDPA) Radiated Spurious EIRP							
H Polarization				V Polarization			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)
72.390	-52.470	-13	-39.47	37.830	-51.720	-13	-38.72
84.540	-50.630	-13	-37.63	71.040	-48.540	-13	-35.54
91.290	-54.040	-13	-41.04	139.080	-53.330	-13	-40.33
397.300	-68.260	-13	-55.26	315.400	-65.930	-13	-52.93
883.800	-64.380	-13	-51.38	955.900	-62.060	-13	-49.06
945.400	-64.060	-13	-51.06	995.800	-61.130	-13	-48.13
3764.000	-48.600	-13	-35.60	3758.000	-39.270	-13	-26.27
9404.000	-42.140	-13	-29.14	9394.000	-36.760	-13	-23.76



4.6.5 Test Data

4.6.5.1 Mode 1

Horizontal Polarization



Remark:

1. #2: MS Signal

2. #3: BS Signal

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

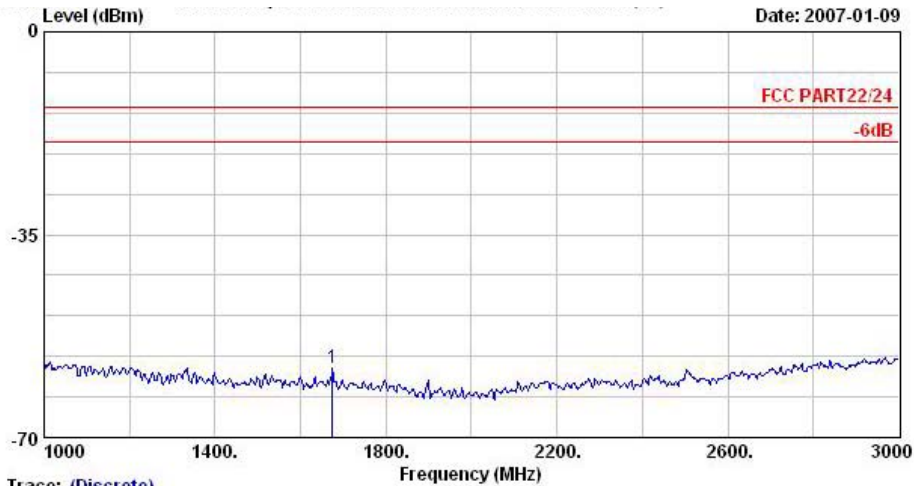
FCC ID : NBZNR-EU860D

IC ID : 3229A-EU860D

Page No. : 86 of 146

Report Issued Date : Jan. 17, 2007

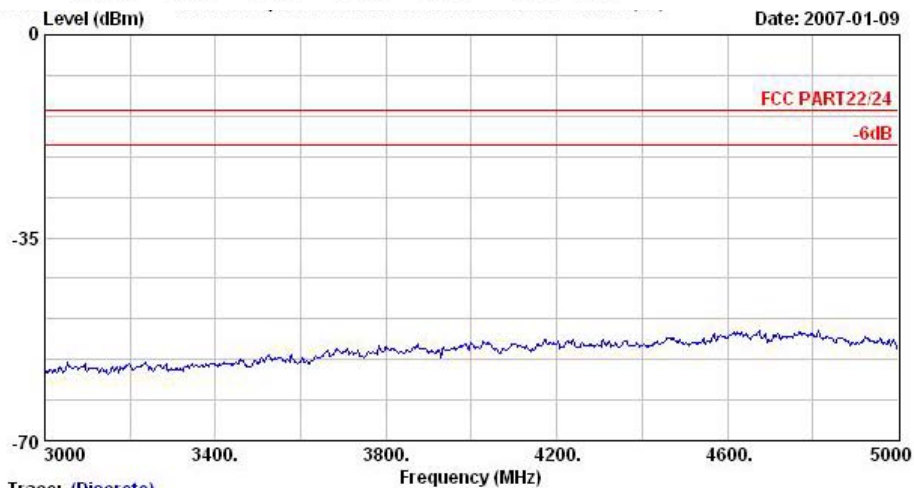
Report Version : Rev. 01



Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-SFURIOUS HORIZONTAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : GSM 850 Link, CH189+Adaptor

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dB	dBm	dB	dBm	dB
1	1674.0	-58.03	-45.03	-13.00	-58.25	0.22 Peak



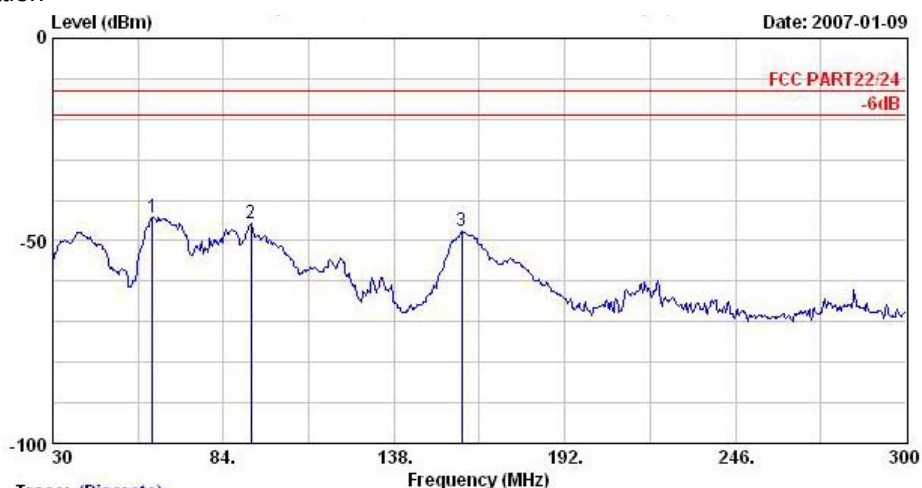
Trace: (Discrete)

Site : 03CH06-HY
Condition : HP-SFURIOUS HORIZONTAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : GSM 850 Link, CH189+Adaptor

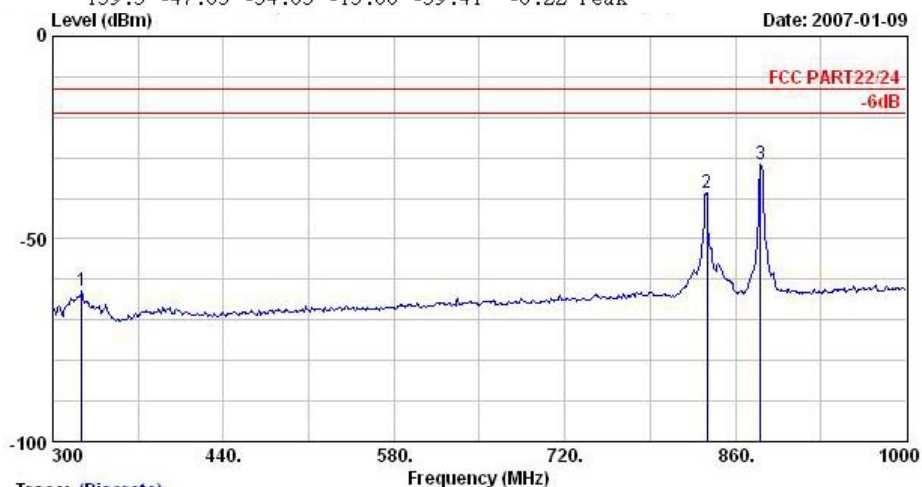
Remark : There is no more obvious emission except the listings above.



Vertical Polarization



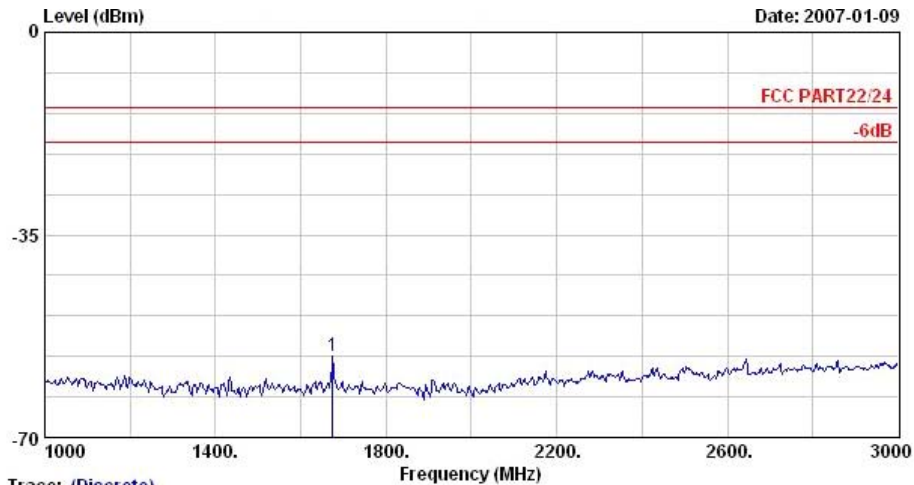
	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1 @	61.6	-44.32	-31.32	-13.00	-31.18	-13.14	Peak
2 @	92.6	-45.62	-32.62	-13.00	-36.95	-8.67	Peak
3 @	159.3	-47.63	-34.63	-13.00	-39.41	-8.22	Peak



	Freq MHz	Level dBm	Over Limit dB	Limit Line dBm	Read Level dBm	Factor dB	Remark
1	323.8	-62.73	-49.73	-13.00	-56.79	-5.94	Peak
2 @	836.9	-38.71			-40.07	1.36	Peak
3 @	880.3	-31.69			-33.40	1.71	Peak

Remark:

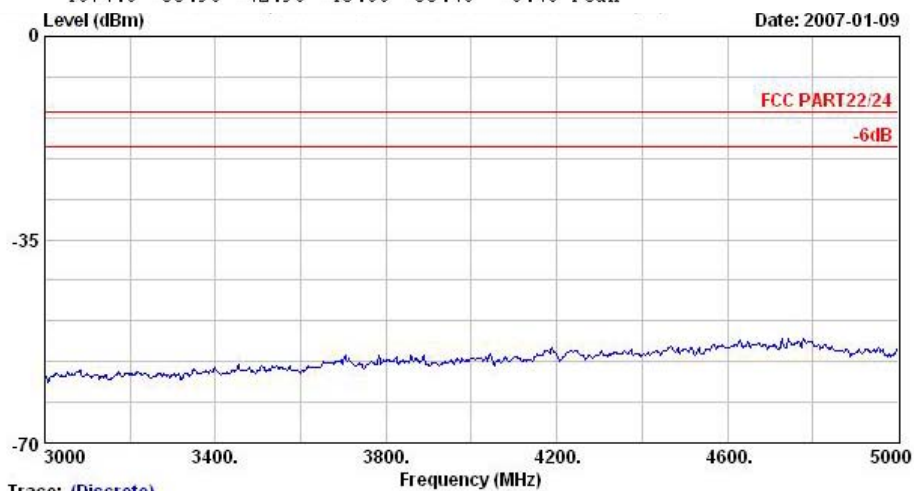
- #2: MS Signal
- #3: BS Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : GSM 850 Link, CH189+ Adaptor

1	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	1674.0	-55.96	-42.96	-13.00	-55.48	-0.48	Peak



Trace: (Discrete)

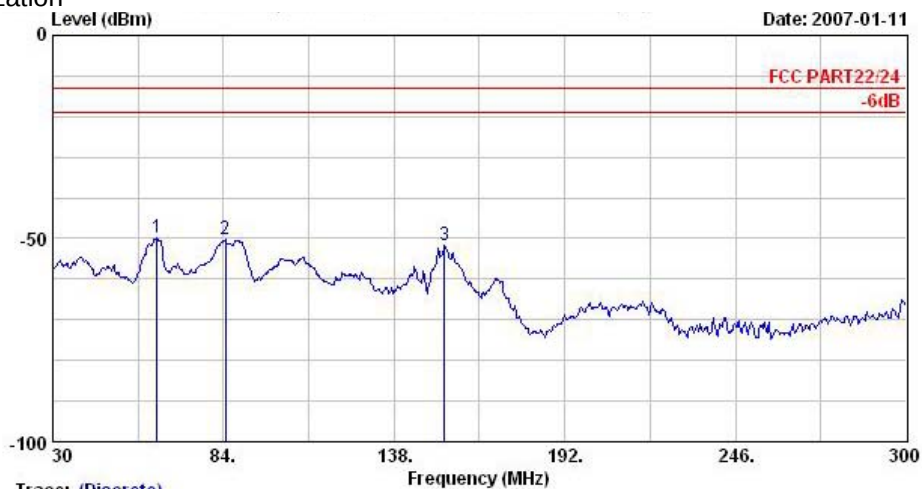
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : GSM 850 Link, CH189+ Adaptor

Remark : There is no more obvious emission except the listings above.

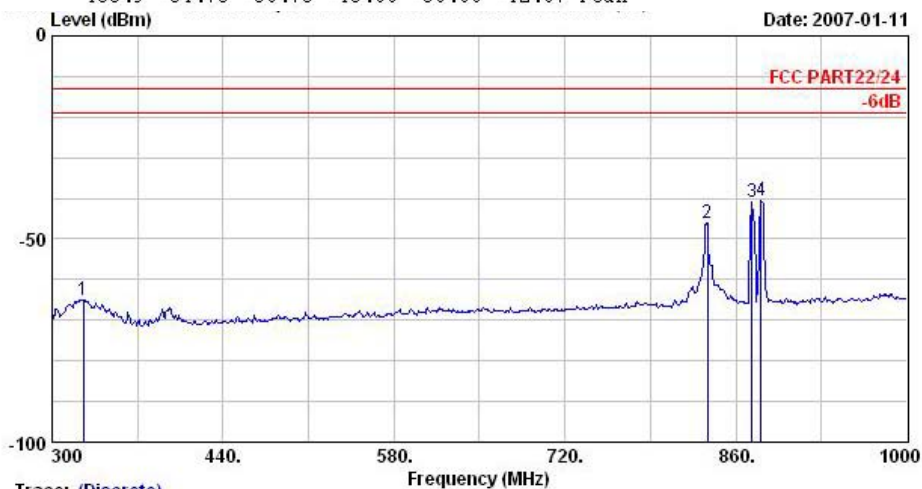


4.6.5.2 Mode 2

Horizontal Polarization



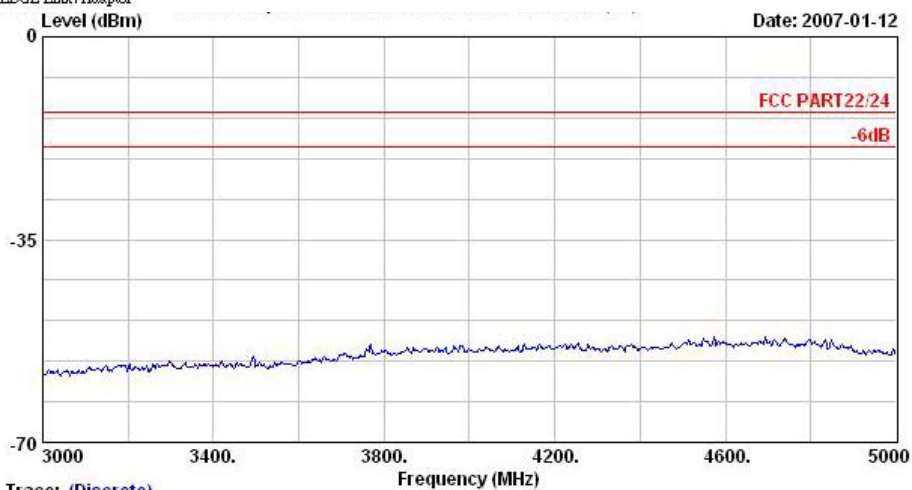
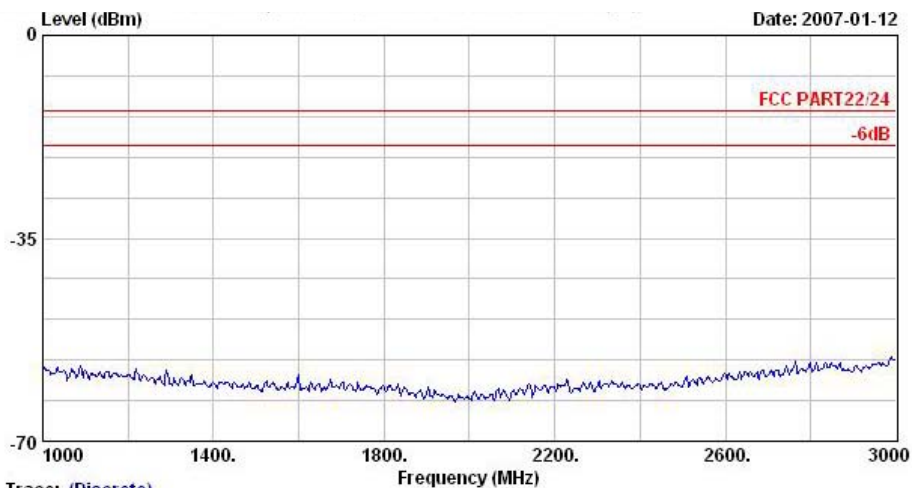
	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor
			dB	dBm	dBm	dB
1 @	62.9	-49.92	-36.92	-13.00	-37.54	-12.38
2	84.5	-50.23	-37.23	-13.00	-37.93	-12.30
3	153.9	-51.73	-38.73	-13.00	-38.86	-12.87



	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor
			dB	dBm	dBm	dB
1	325.9	-65.02	-52.02	-13.00	-55.97	-9.04
2 @	836.9	-46.11			-44.78	-1.33
3 @	873.3	-41.01			-40.02	-0.99
4 @	880.3	-40.48			-39.57	-0.91

Remark:

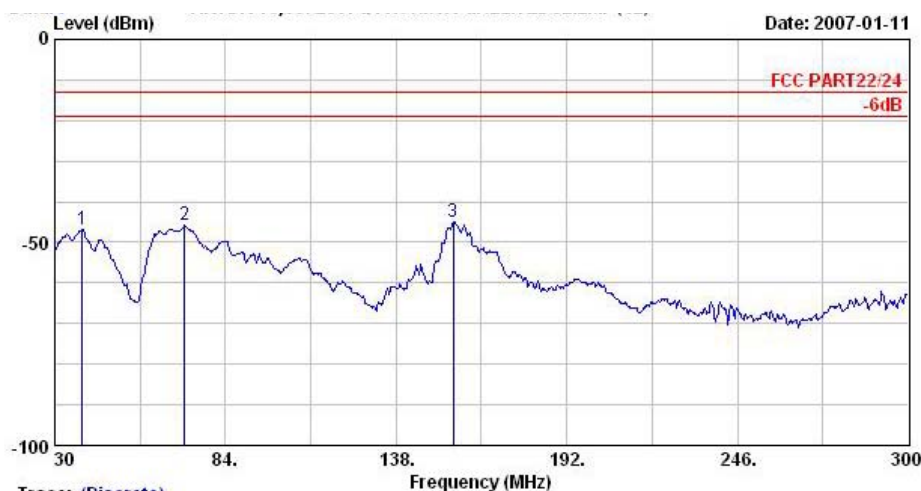
1. #2: MS Signal
2. #3: BS Signal
3. #4: RF Signal



Remark : There is no more obvious emission except the listings above.

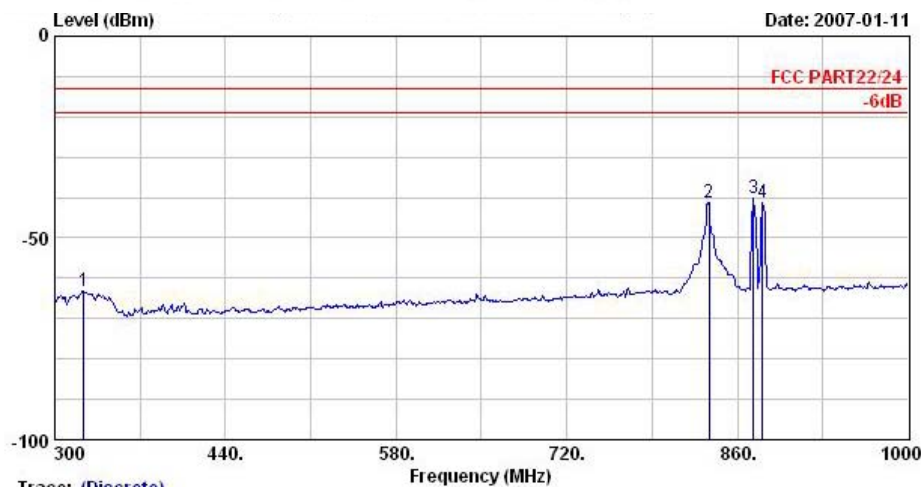


Vertical Polarization



Trace: (Discrete)
Site : 08CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : EDGE Link+Adaptor

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1 @	38.6	-46.69	-33.69	-13.00	-35.16	-11.53	Peak
2 @	71.0	-45.71	-32.71	-13.00	-33.82	-11.88	Peak
3 @	156.1	-44.90	-31.90	-13.00	-36.71	-8.20	Peak

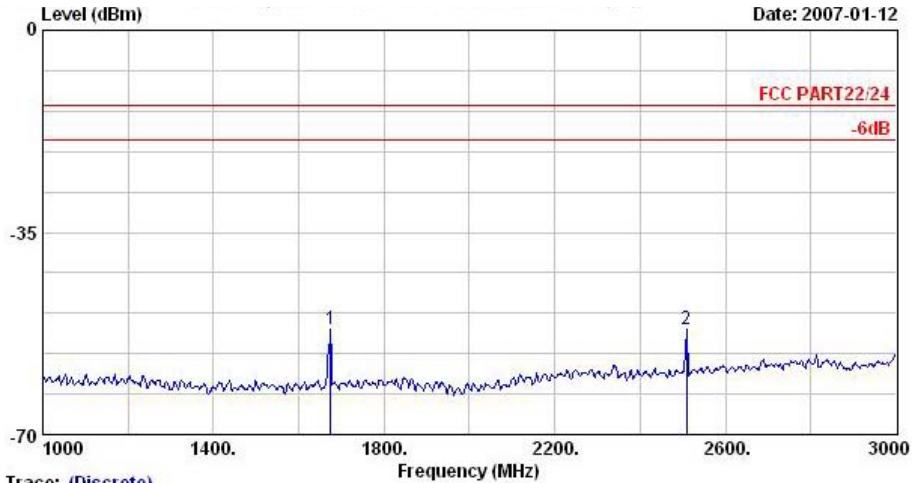


Trace: (Discrete)
Site : 08CH06-HY
Condition : LF-SPURIOUS VERTICAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : EDGE Link+Adaptor

	Freq	Level	Over	Limit	Read	Factor	Remark
	MHz	dBm	dB	dBm	dBm	dB	
1	323.8	-63.28	-50.28	-13.00	-57.34	-5.94	Peak
2 @	836.9	-41.23			-42.60	1.36	Peak
3 @	873.3	-40.32			-41.97	1.65	Peak
4 @	880.3	-41.17			-42.88	1.71	Peak

Remark:

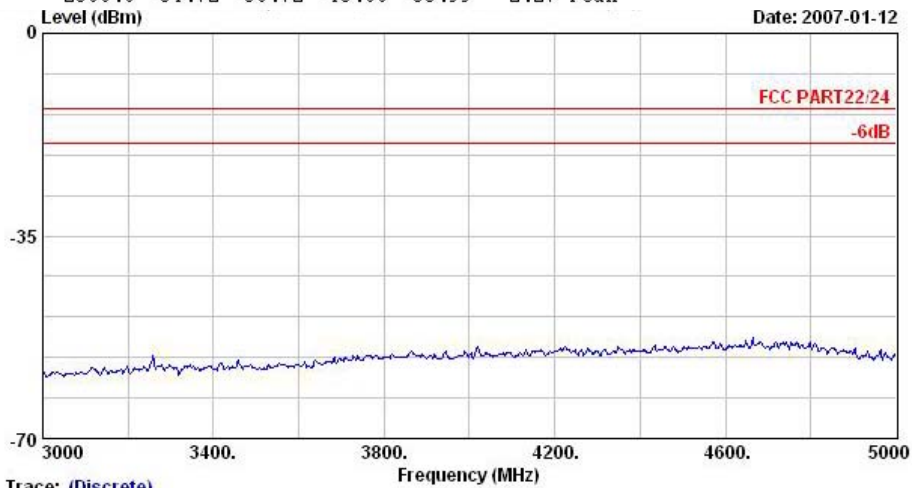
1. #2: MS Signal
2. #3: BS Signal
3. #4: RF Signal



Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : EDGE Link+Adaptor

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
1	1674.0	-51.75	-38.75	-13.00	-51.27	-0.48 Peak
2	2508.0	-51.72	-38.72	-13.00	-53.99	2.27 Peak



Trace: (Discrete)

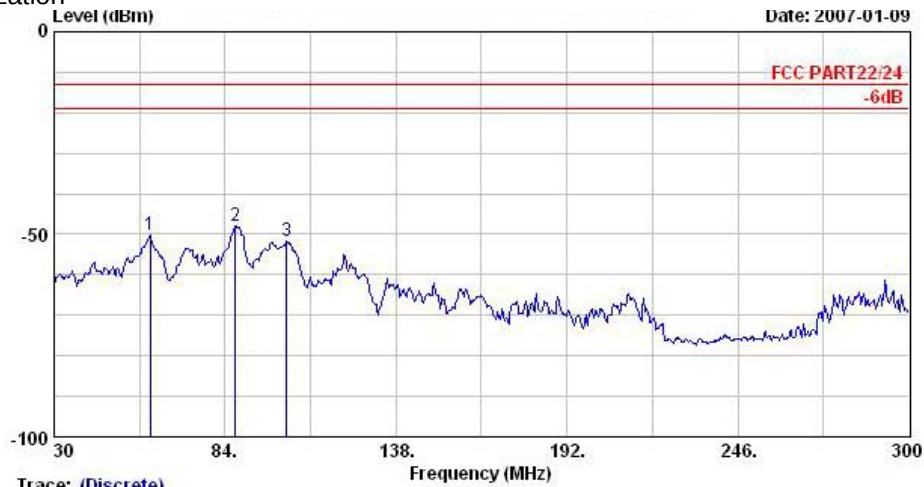
Site : 03CH06-HY
Condition : HF-SPURIOUS VERTICAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : EDGE Link+Adaptor

Remark : There is no more obvious emission except the listings above.

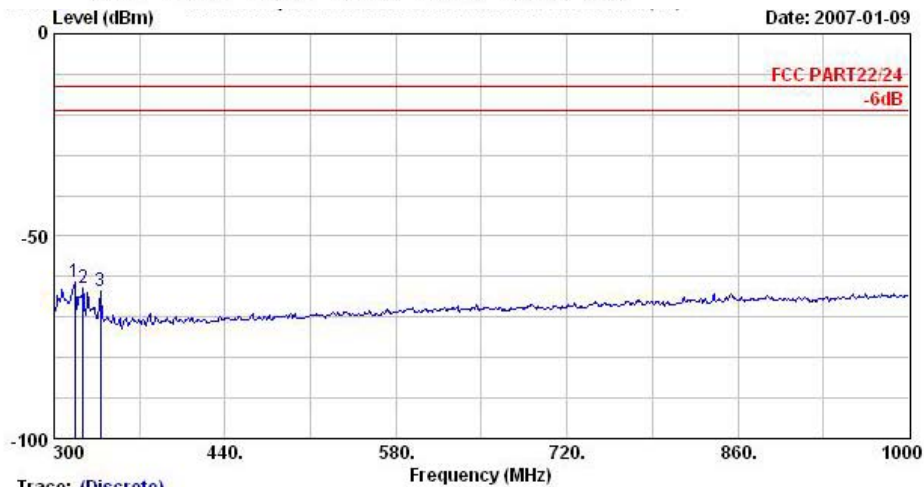


4.6.5.3 Mode 3

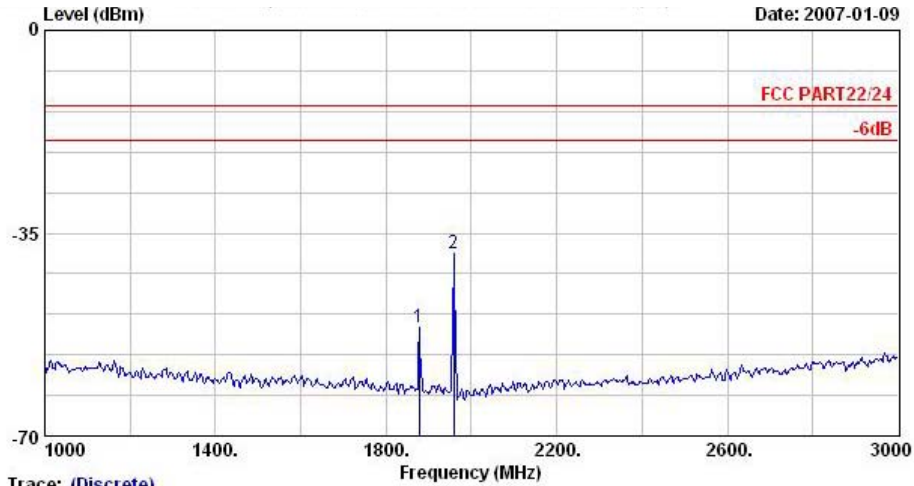
Horizontal Polarization



	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor
			dB	dBm	dBm	dB
1	60.2	-50.36	-37.36	-13.00	-37.97	-12.39
2	87.2	-47.94	-34.94	-13.00	-35.65	-12.29
3	103.4	-51.75	-38.75	-13.00	-39.47	-12.28



	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor
			dB	dBm	dBm	dB
1	316.8	-61.25	-48.25	-13.00	-51.91	-9.34
2	323.8	-62.70	-49.70	-13.00	-53.59	-9.11
3	337.8	-63.52	-50.52	-13.00	-54.88	-8.64



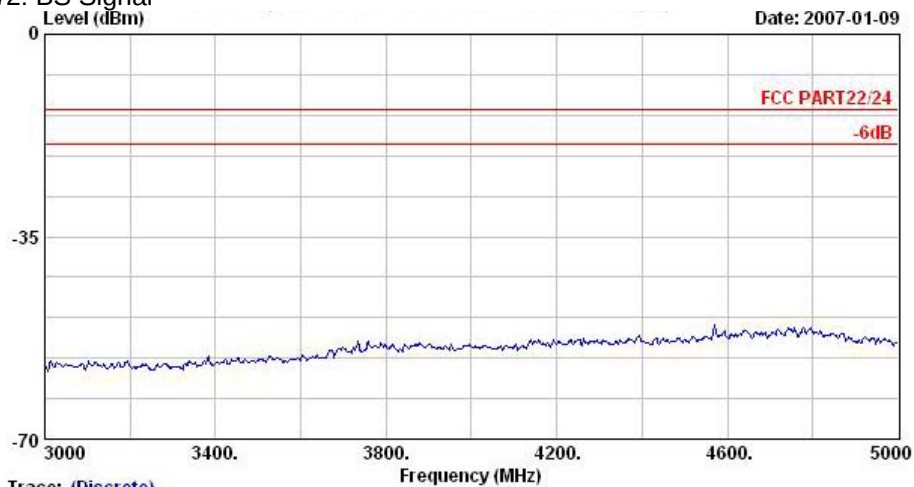
Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-SFURIOUS HORIZONTAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : PCS 1900 Link,CH699H Adaptor

	Freq	Level	Over	Limit	Read	
	MHz	dBm	Limit	Line	Level	Factor Remark
		dB		dBm	dB	
1	1878.0	-51.33			-50.82	-0.51 Peak
2 @	1958.0	-38.45			-37.34	-1.11 Peak

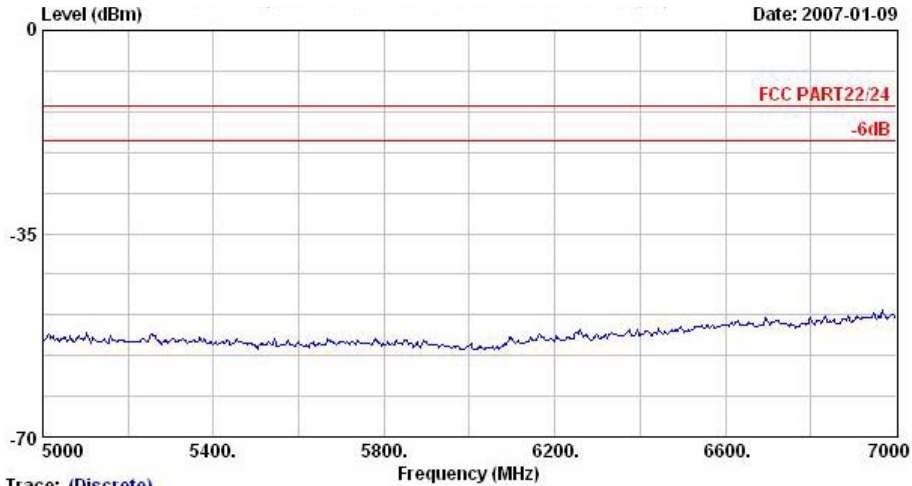
Remark:

1. #1: MS Signal
2. #2: BS Signal



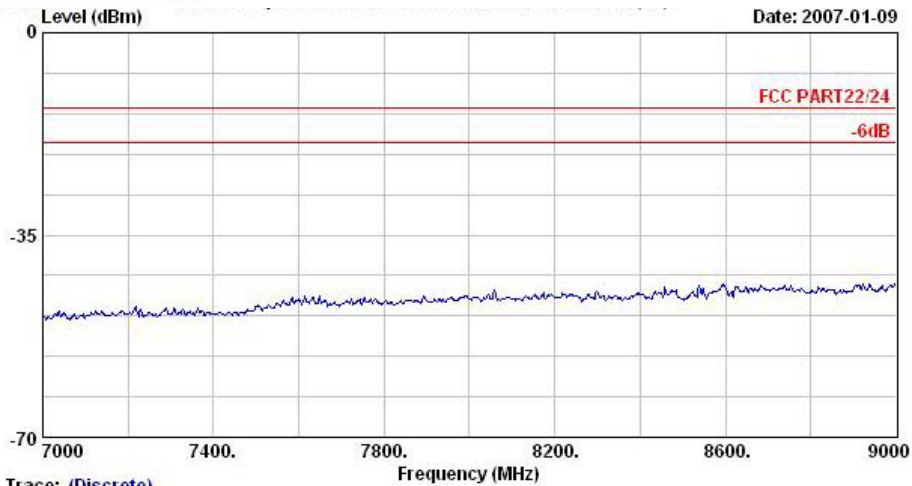
Trace: (Discrete)

Site : 08CH06-HY
Condition : HF-SFURIOUS HORIZONTAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : PCS 1900 Link,CH699H Adaptor



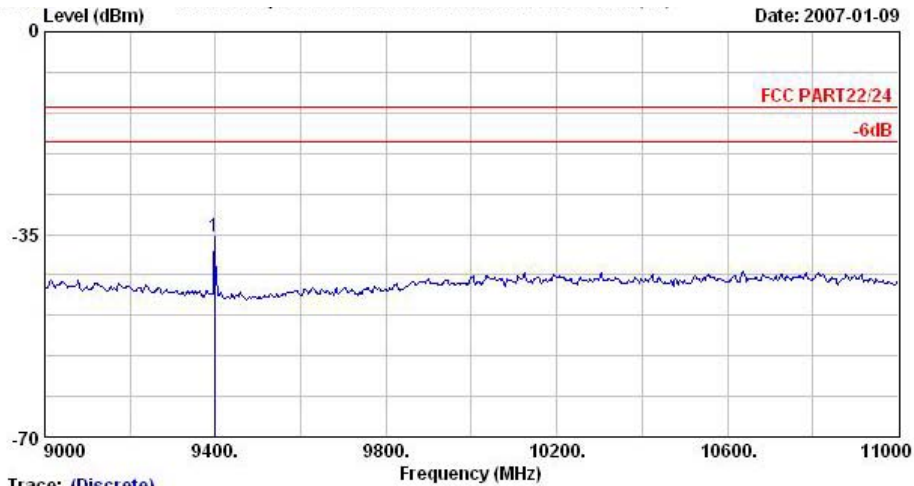
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : PCS 1900 Link,CH699+Adaptor



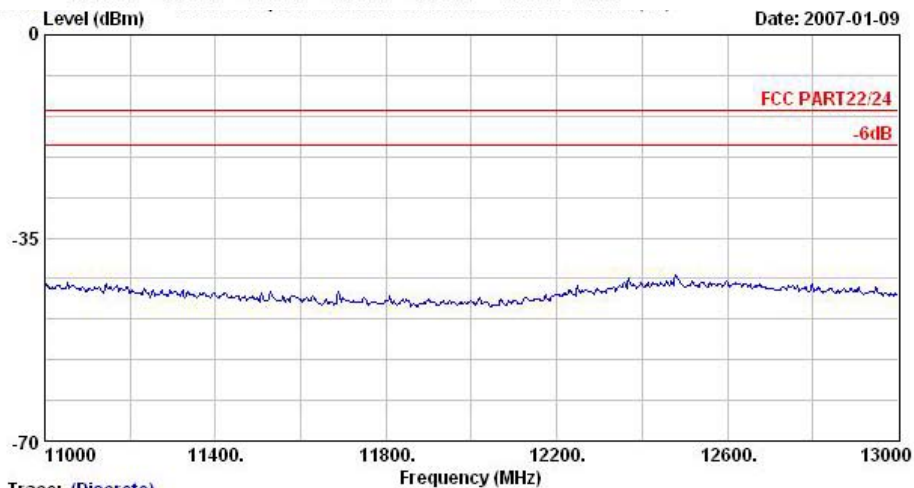
Trace: (Discrete)

Site : 03CH06-HY
Condition : HF-SPURIOUS HORIZONTAL
EUT : Module
Power : 120Vac/60Hz
Model : FG 710513
Memo : PCS 1900 Link,CH699+Adaptor



1 @

Freq	Level	Over	Limit	Read	Factor	Remark
MHz	dBm	dB	dBm	dBm	dB	
9398.0	-35.26	-22.26	-13.00	-53.49	18.22	Peak



1 @