Radioframe Networks, Inc.

OmniCell@Home

May 20, 2008

Report No. RAFN0085 Rev 2

Report Prepared By

NORTHWEST EMC

www.nwemc.com
1-888-EMI-CERT

EMC Test Report

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: May 20, 2008
Radioframe Networks, Inc.
Model: OmniCell@Home

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Effective Isotropic Radiated Power	FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Effective Radiated Power	FCC 22H:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Power Output	FCC 22H:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Power Output	FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Occupied Bandwidth	FCC 22H:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Occupied Bandwidth	FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Out of Band Emissions	FCC 22H:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Out of Band Emissions	FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Frequency Stability	FCC 22H:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Frequency Stability	FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Spurious Emissions at Antenna Terminals	FCC 22H:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Spurious Emissions at Antenna Terminals	FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Receiver Conducted Spurious Emissions	FCC 15.111:2007	ANSI C63.4:2003	**Pass**

Modifications made to the product
See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site Filing #3496A).

Approved By:

Ethan Schoonover, Sultan Lab Manager

NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
01	Retested output power due to damaged connector on original unit	7/22/08	65-69, 76-102, 130-141
02	Updated all PCS band data	7/24/2008	60-64, 103-129, 142-153,

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.

NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.

NVLAP LAB CODE 200629-0
NVLAP LAB CODE 200630-0
NVLAP LAB CODE 200676-0
NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.

CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.

TÜV Product Service: Included in TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories, available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV's CARAT Program requirements. Certificate No. USA0604C.

TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.

Accreditations and Authorizations

NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).

Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).

VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. *(Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294).*

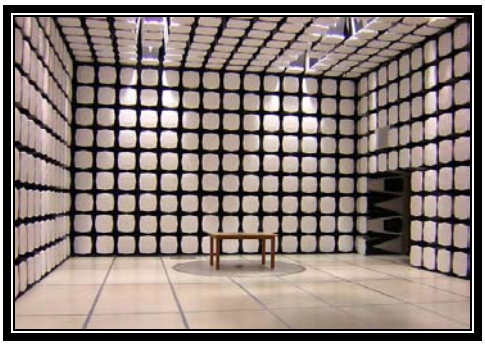
BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.

GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification

MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157)*

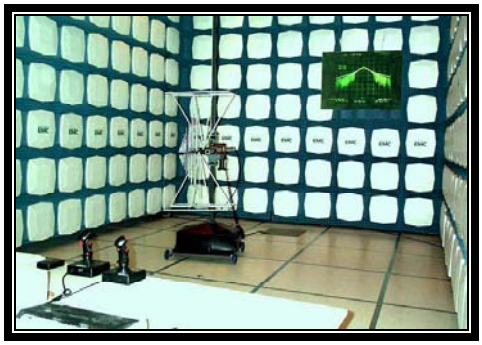
SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/accreditations/



California – Orange County Facility
Labs OC01 – OC13

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



Oregon – Evergreen Facility
Labs EV01 – EV11

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826

Washington – Sultan Facility
Labs SU01 – SU07

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Radioframe Networks, Inc.
Address:	9461 Willows Road NE, Suite 100
City, State, Zip:	Redmond, WA 98052
Test Requested By:	Dean Busch
Model:	OmniCell@Home
First Date of Test:	May 12, 2008
Last Date of Test:	July 23, 2008
Receipt Date of Samples:	May 12, 2008
Equipment Design Stage:	Preproduction
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Cellular basestation for in-home use. Designed to provide more reliable cell phone coverage in the home.

Testing Objective:
These tests were selected to satisfy the EMC requirements for the FCC.

CONFIGURATION 1 RAFN0085

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Pico Base Station	Radioframe Networks, Inc.	OmniCell@Home	Unknown

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC power adapter	CUI, Inc.	DP30B-1202000	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D400	8JTD141
PC Power Adapter	Dell	ADP-90FB	17971-2BG-7KCQ

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
DC Power	PA	1.85m	PA	AC Mains	EUT - Pico Base Station
LAN	No	4.25m	No	EUT - Pico Base Station	Remote PC
LAN	No	0.85m	No	EUT - Pico Base Station	Unterminated
LAN	No	0.85m	No	EUT - Pico Base Station	Unterminated
LAN	No	0.85m	No	EUT - Pico Base Station	Unterminated
LAN	No	0.85m	No	EUT - Pico Base Station	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 RAFN0085

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
EUT - Pico Base Station	Radioframe Networks, Inc.	OmniCell@Home	Unknown

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC power adapter	CUI, Inc.	DP30B-1202000	None

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote PC	Dell	Latitude D400	8JTD141
PC Power Adapter	Dell	ADP-90FB	17971-2BG-7KCQ

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
DC Power	PA	1.85m	PA	AC Mains	EUT - Pico Base Station
LAN	No	4.25m	No	EUT - Pico Base Station	Remote PC
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	5/12/2008	ERP / EiRP of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	5/14/2008	Out of Band Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	5/14/2008	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	5/14/2008	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	5/15/2008	Spurious Emissions at Antenna Terminals	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	5/16/2008	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	5/16/2008	Receiver Conducted Spurious Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was complete.
8	7/23/2008	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
9	7/23/2008	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
10	7/23/2008	ERP / EiRP of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was complete.

SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Pre-Amplifier	Hewlett-Packard	83017A	APL	10/24/2006	24
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT with 20dB of external attenuation on the RF input of the spectrum analyzer. Analyzer plots utilizing a 100 kHz resolution bandwidth and no video filtering were made for each modulation type from 0 to 10 GHz. The peak conducted power of spurious emissions, up to the 10th harmonic of the transmit frequency, were investigated to ensure they were less than or equal to –13 dBm.

NORTHWEST EMC

SPURIOUS EMISSIONS AT ANTENNA TERMINALS

XMit 2007.06.13

EUT:	OmniCell@Home			**Work Order:**	RAFN0085
Serial Number:	None			**Date:**	05/15/08
Customer:	Radioframe Networks, Inc.			**Temperature:**	23°C
Attendees:	None			**Humidity:**	44%
Project:	None			**Barometric Pres.:**	1027.9 mb
Tested by:	Rod Peloquin	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

None

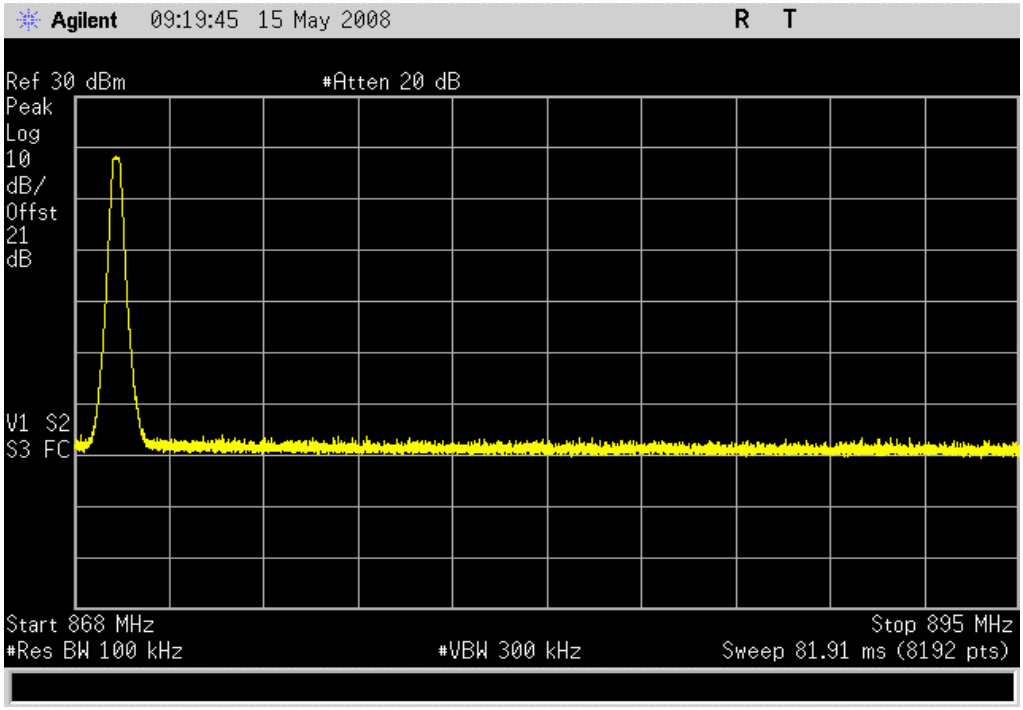
DEVIATIONS FROM TEST STANDARD

No Deviations

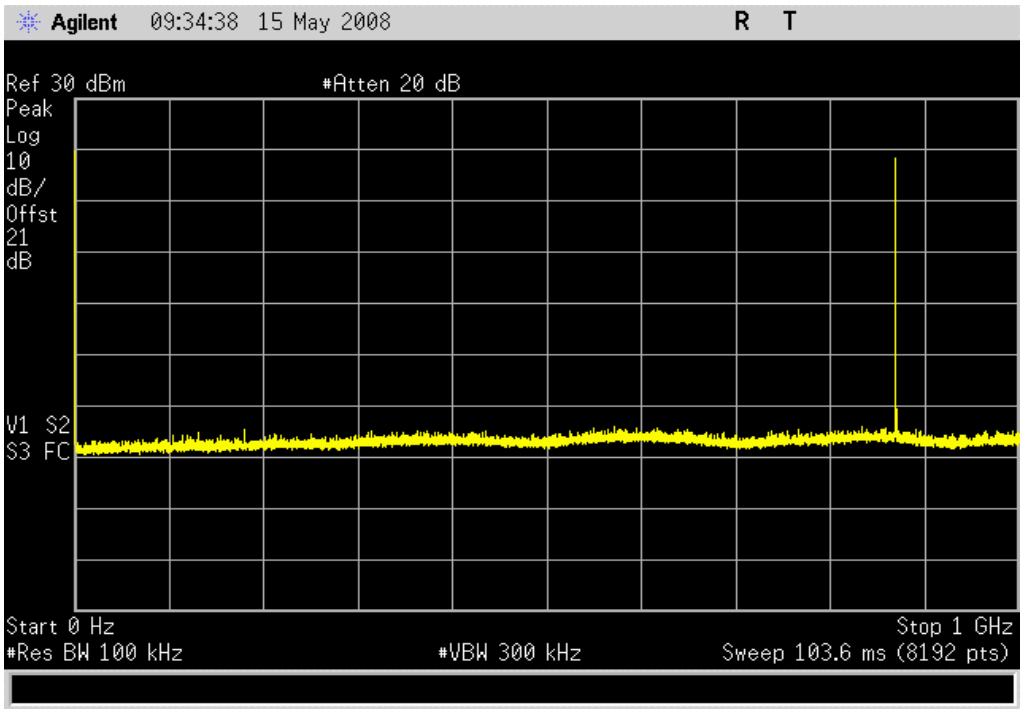
Configuration #	1	Signature

		Value	Limit	Results
GSM Modulation				
	Low Channel			
	In Band	≤ - 30 dBm	≤ -13 dBm	Pass
	0-1GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	995MHz-2.8GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	2.795GHz-4.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	4.495GHz-6GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	5.995GHz-7.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	7.495GHz-9.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	Mid Channel			
	In Band	≤ - 30 dBm	≤ -13 dBm	Pass
	0-1GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	995MHz-2.8GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	2.795GHz-4.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	4.495GHz-6GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	5.995GHz-7.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	7.495GHz-9.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	High Channel			
	In Band	≤ - 30 dBm	≤ -13 dBm	Pass
	0-1GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	995MHz-2.8GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	2.795GHz-4.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	4.495GHz-6GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	5.995GHz-7.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	7.495GHz-9.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
GPRS Modulation				
	Low Channel			
	In Band	≤ - 30 dBm	≤ -13 dBm	Pass
	0-1GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	995MHz-2.8GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	2.795GHz-4.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	4.495GHz-6GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	5.995GHz-7.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	7.495GHz-9.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	Mid Channel			
	In Band	≤ - 30 dBm	≤ -13 dBm	Pass
	0-1GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	995MHz-2.8GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	2.795GHz-4.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	4.495GHz-6GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	5.995GHz-7.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	7.495GHz-9.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	High Channel			
	In Band	≤ - 30 dBm	≤ -13 dBm	Pass
	0-1GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	995MHz-2.8GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	2.795GHz-4.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	4.495GHz-6GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	5.995GHz-7.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass
	7.495GHz-9.5GHz	≤ - 30 dBm	≤ -13 dBm	Pass

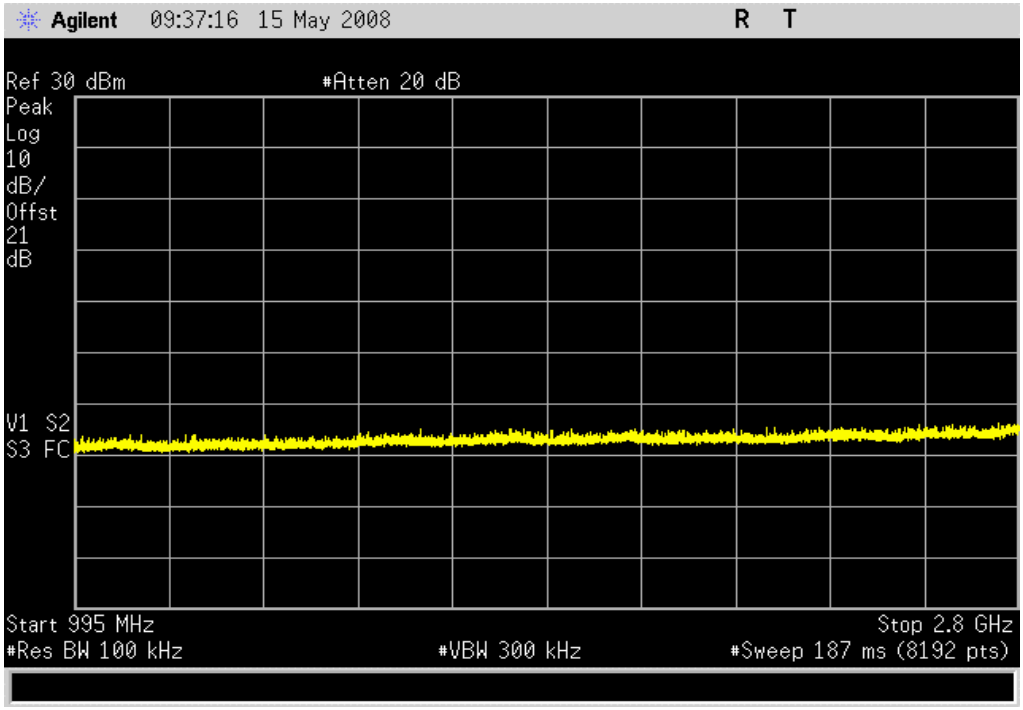
GSM Modulation, Low Channel, In Band					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



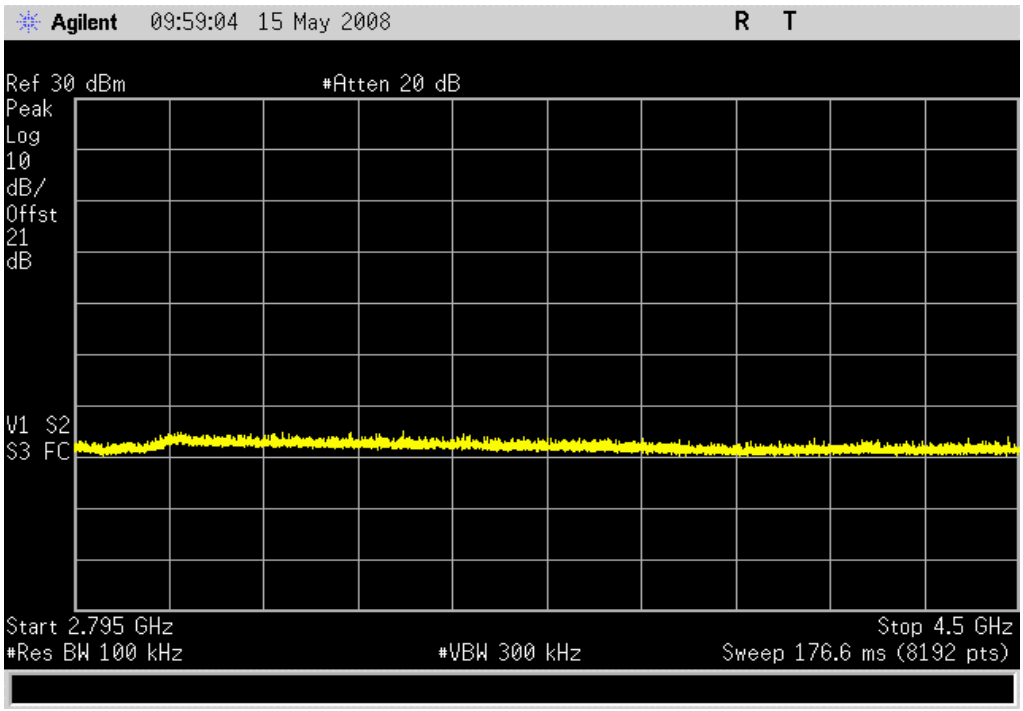
GSM Modulation, Low Channel, 0-1GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



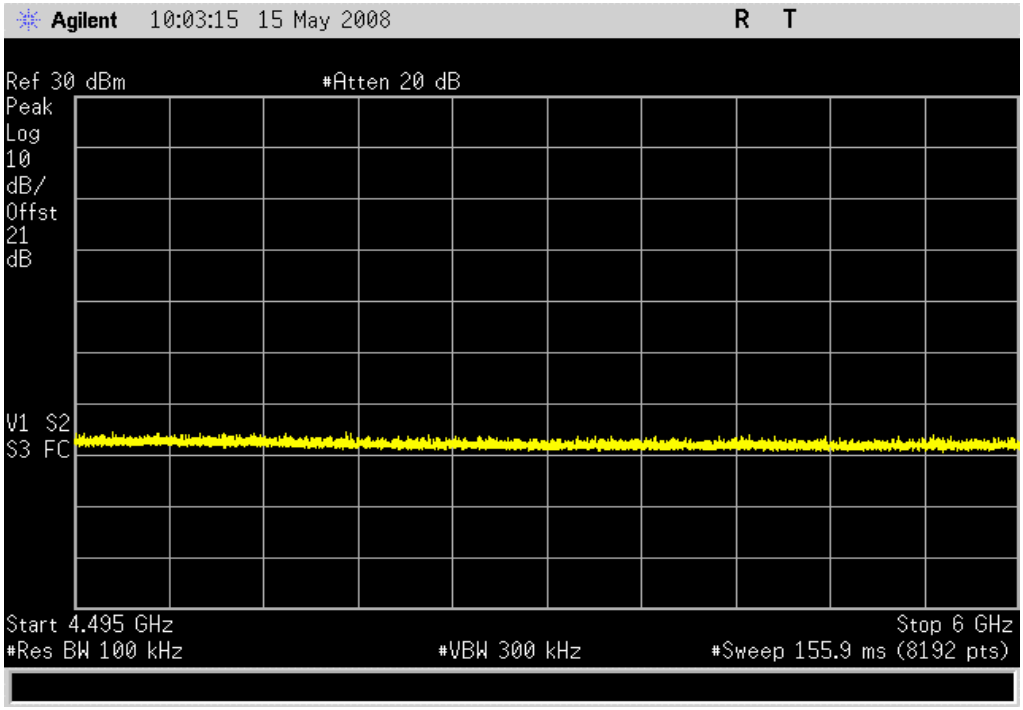
GSM Modulation, Low Channel, 995MHz-2.8GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



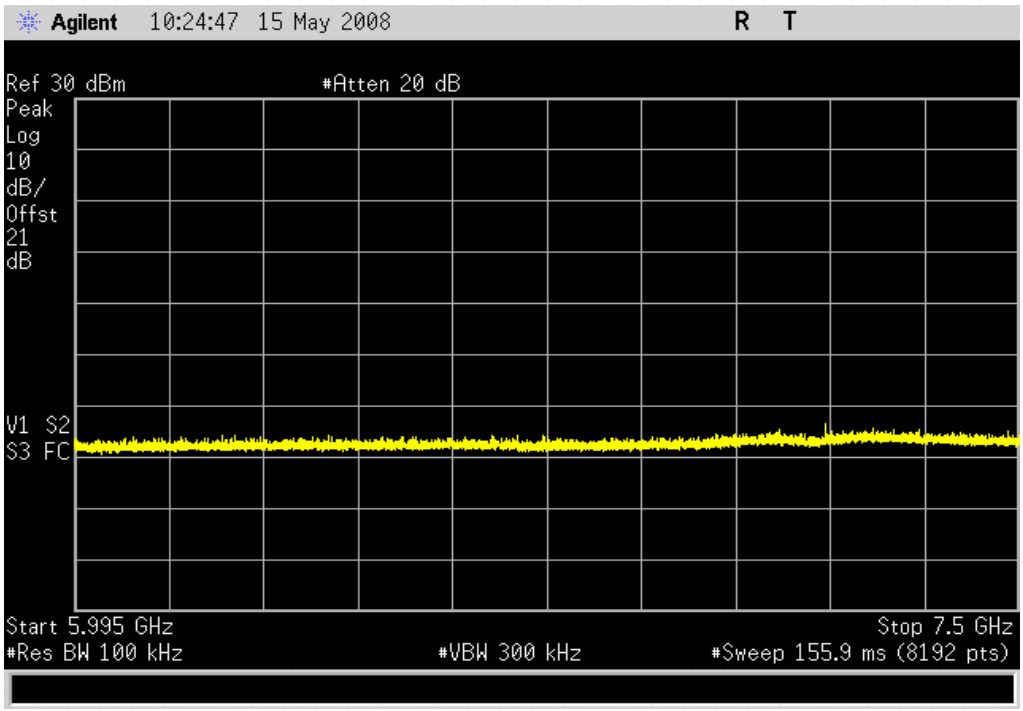
GSM Modulation, Low Channel, 2.795GHz-4.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



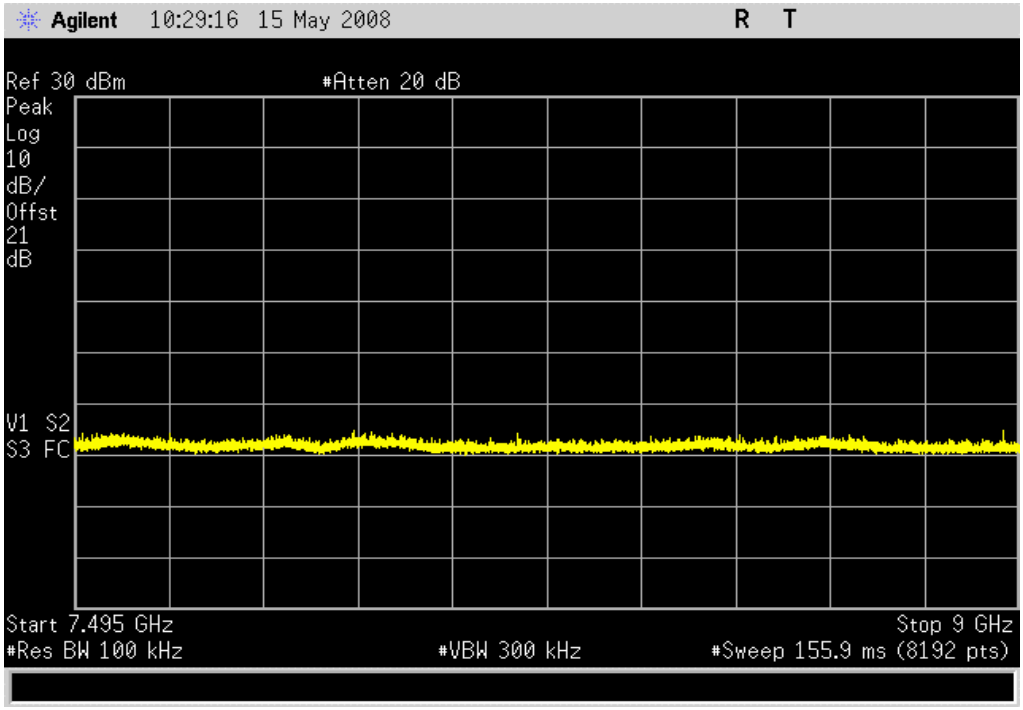
GSM Modulation, Low Channel, 4.495GHz-6GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



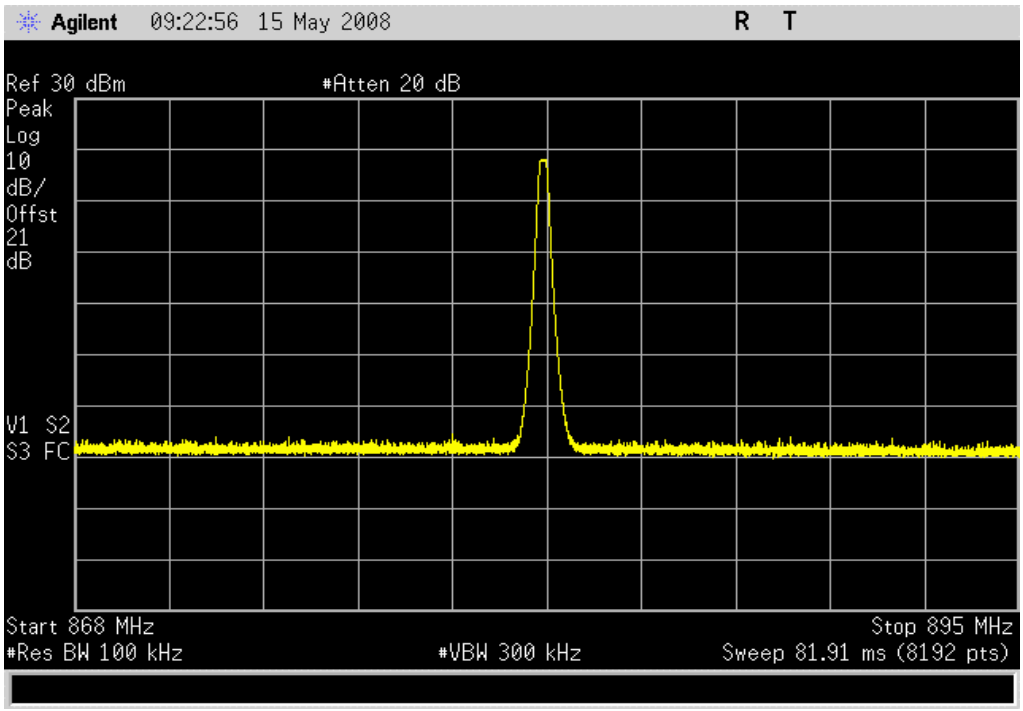
GSM Modulation, Low Channel, 5.995GHz-7.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



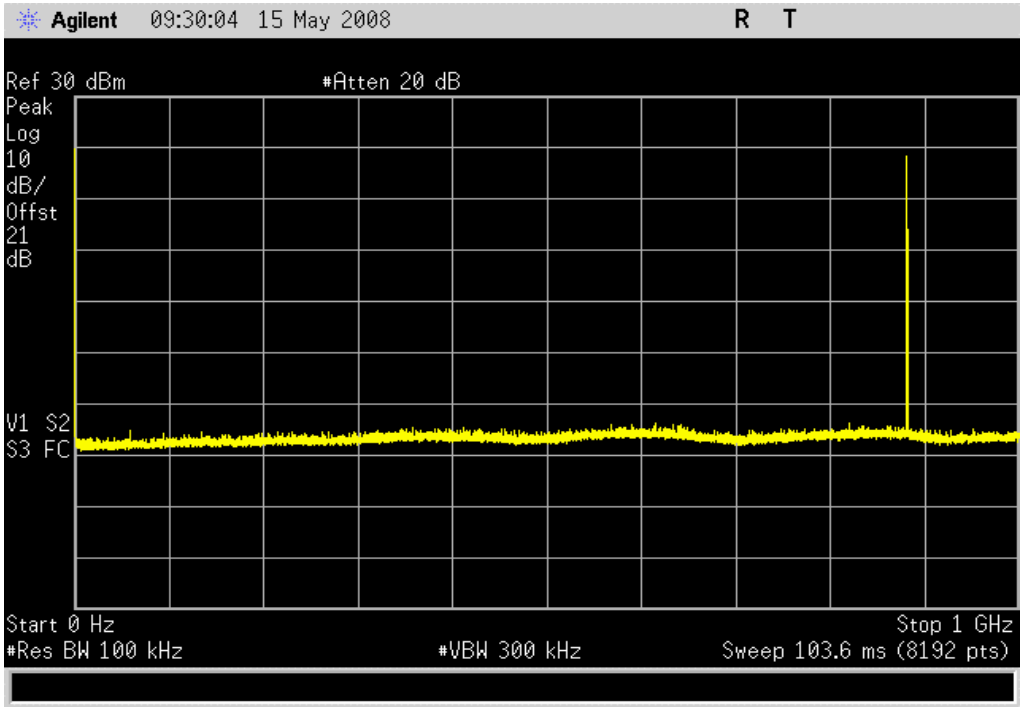
GSM Modulation, Low Channel, 7.495GHz-9.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



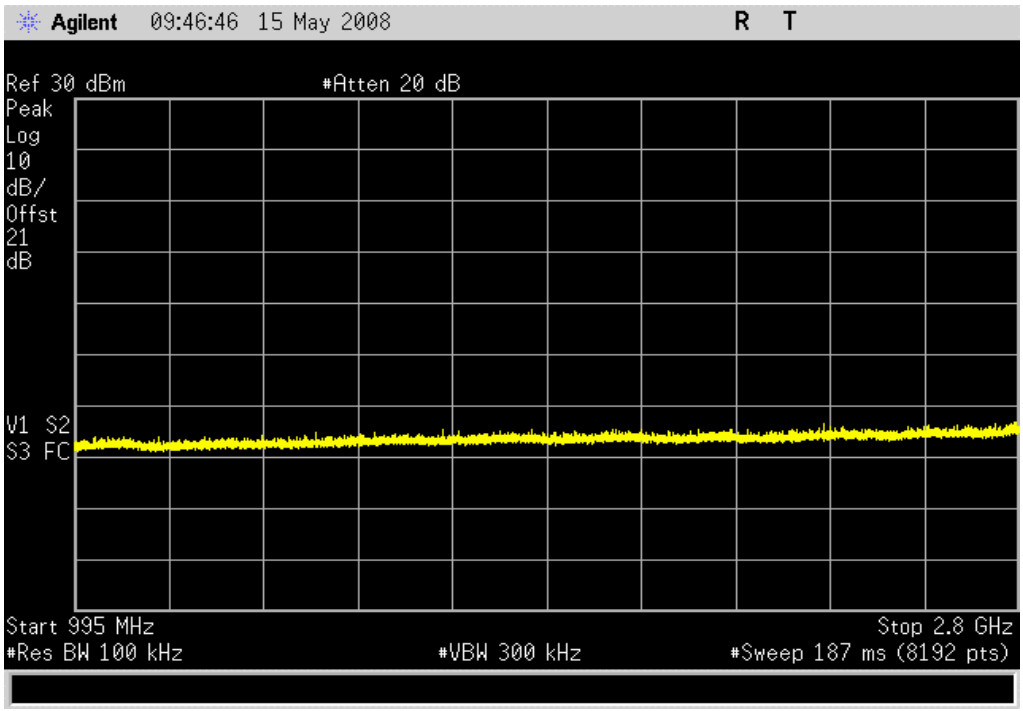
GSM Modulation, Mid Channel, In Band					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



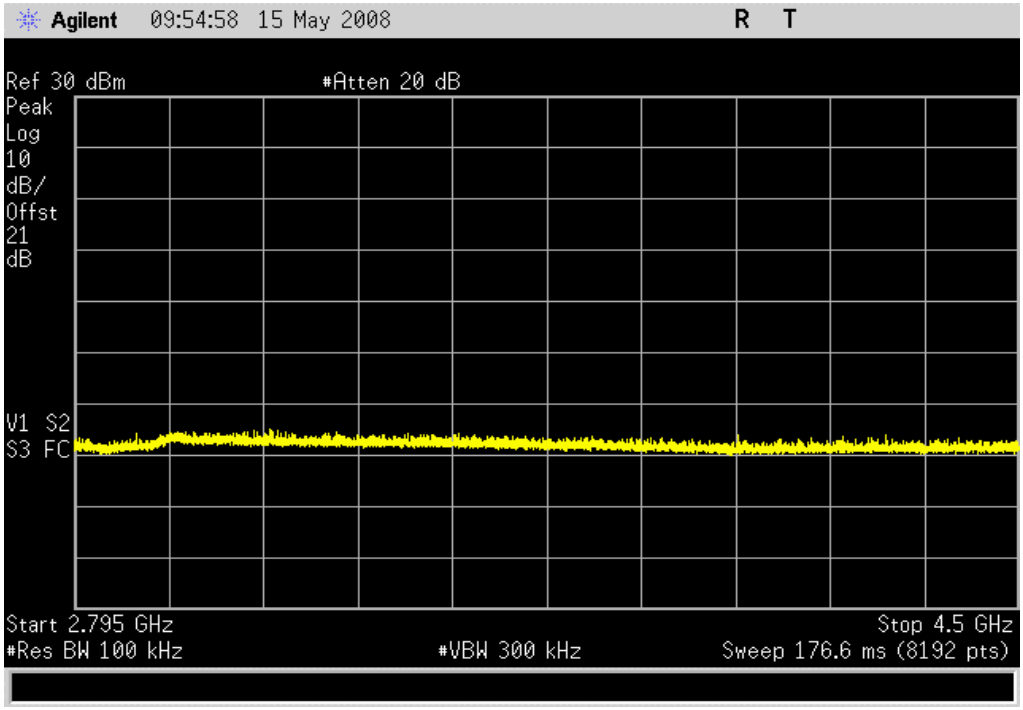
GSM Modulation, Mid Channel, 0-1GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



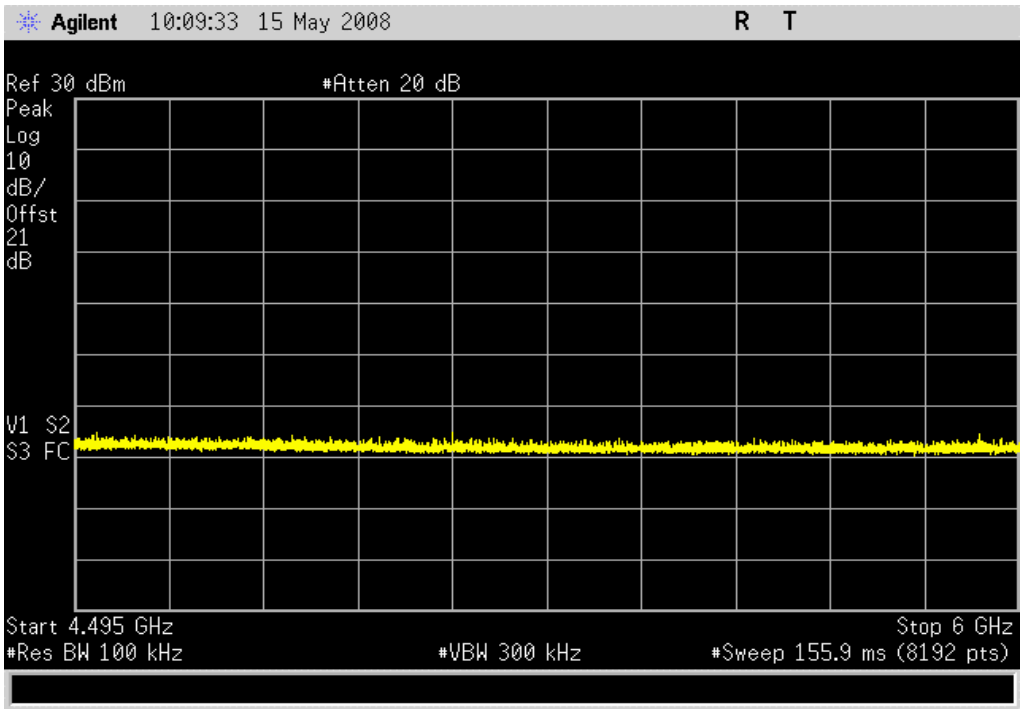
GSM Modulation, Mid Channel, 995MHz-2.8GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



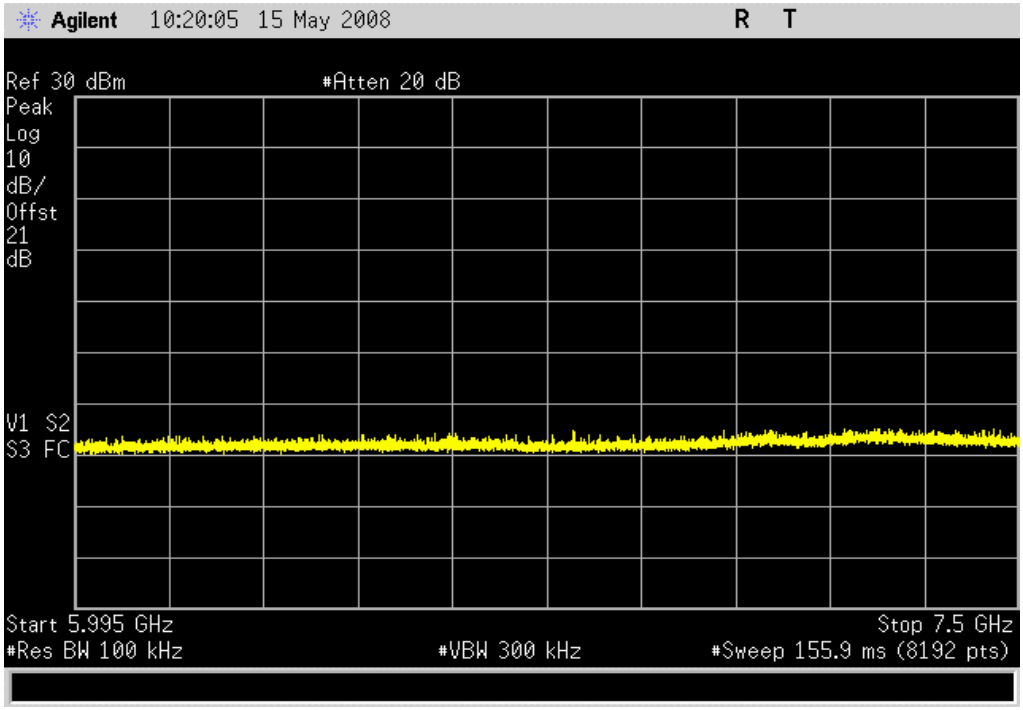
GSM Modulation, Mid Channel, 2.795GHz-4.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



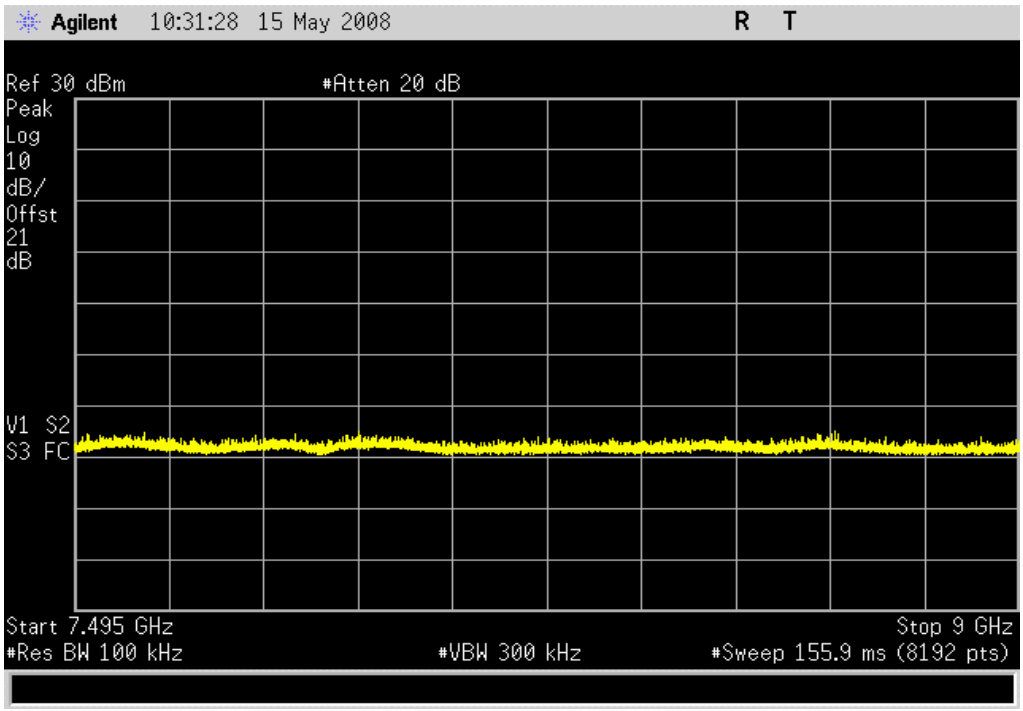
GSM Modulation, Mid Channel, 4.495GHz-6GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



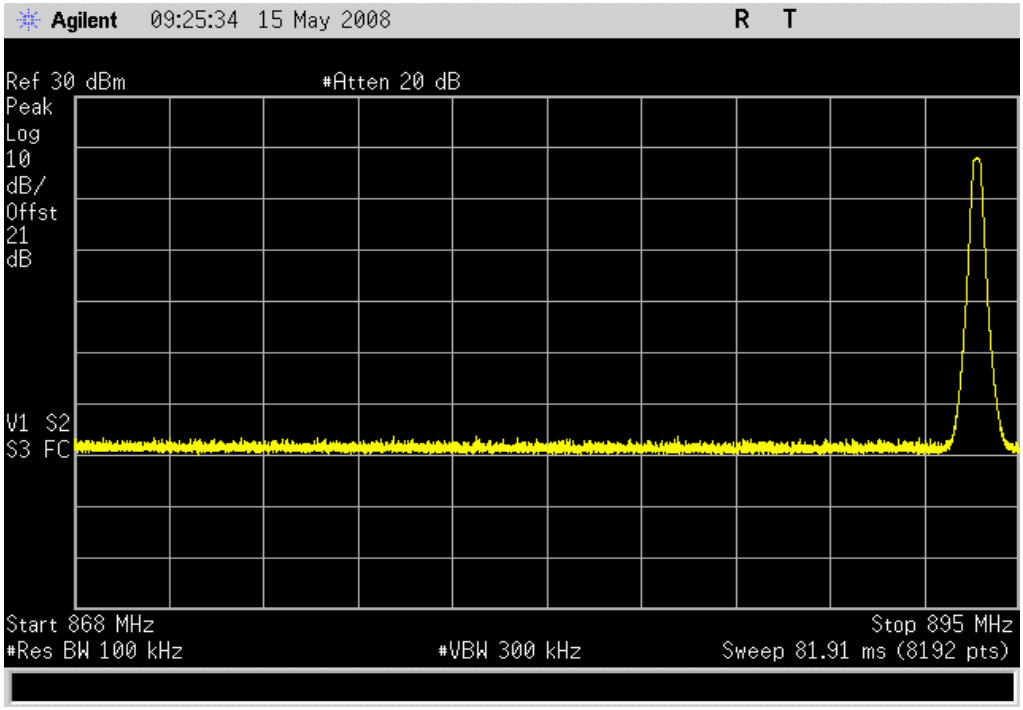
GSM Modulation, Mid Channel, 5.995GHz-7.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



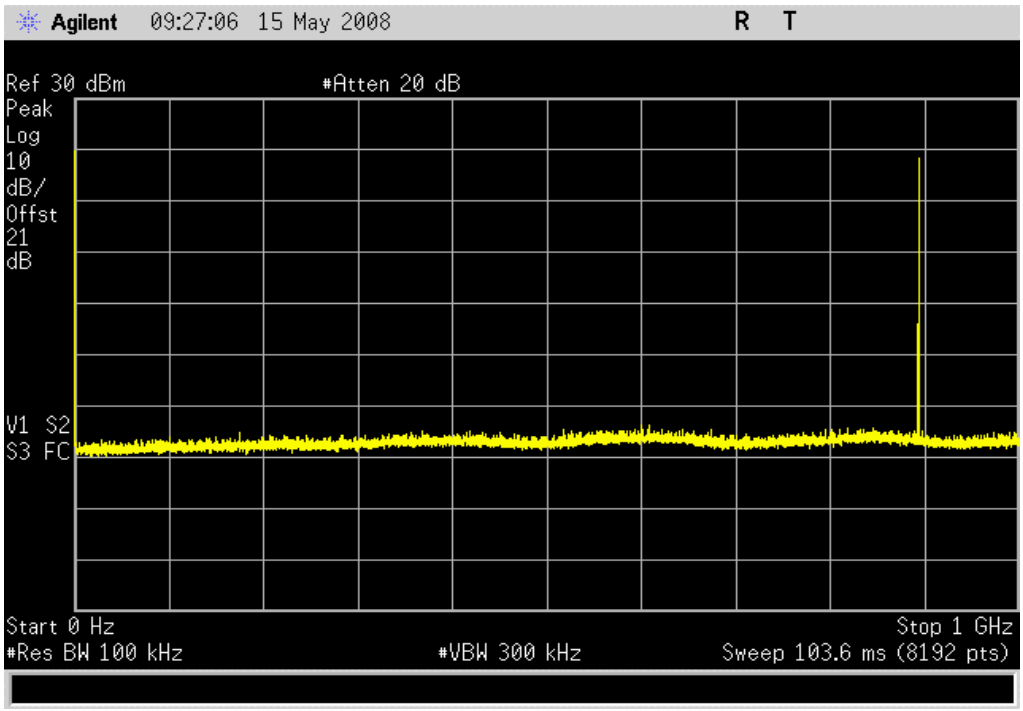
GSM Modulation, Mid Channel, 7.495GHz-9.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



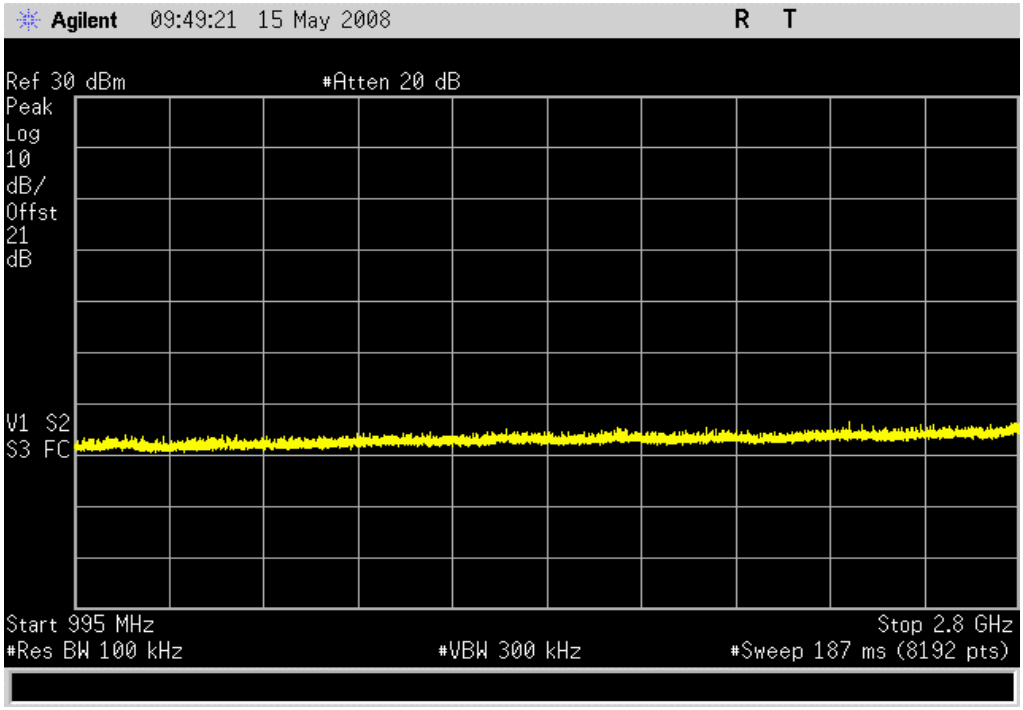
GSM Modulation, High Channel, In Band					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



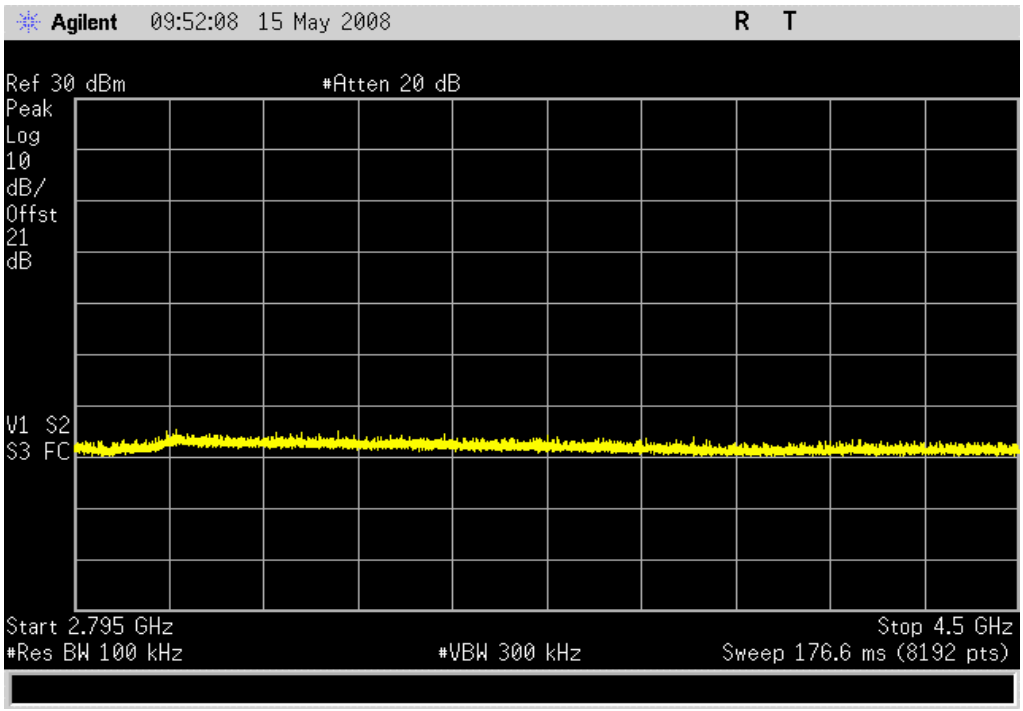
GSM Modulation, High Channel, 0-1GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



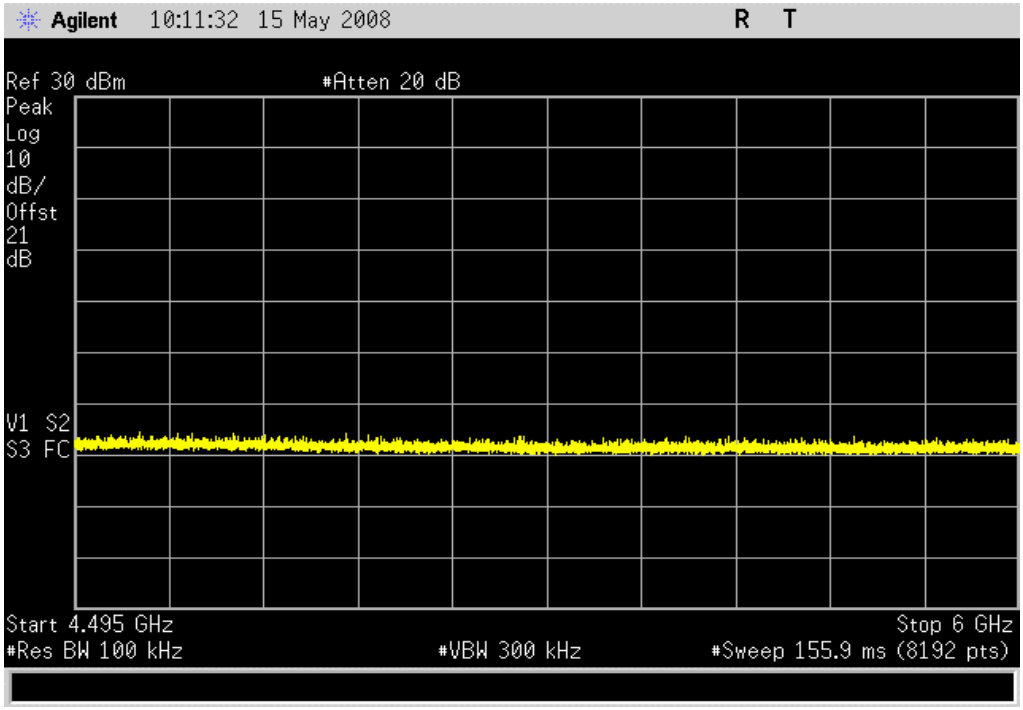
GSM Modulation, High Channel, 995MHz-2.8GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



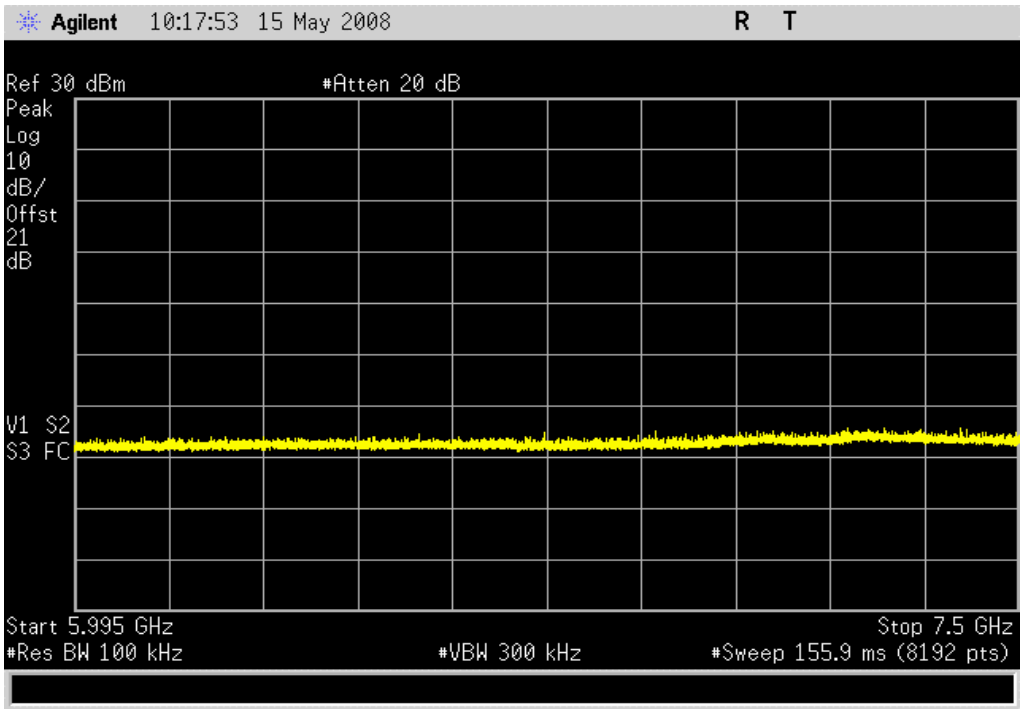
GSM Modulation, High Channel, 2.795GHz-4.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



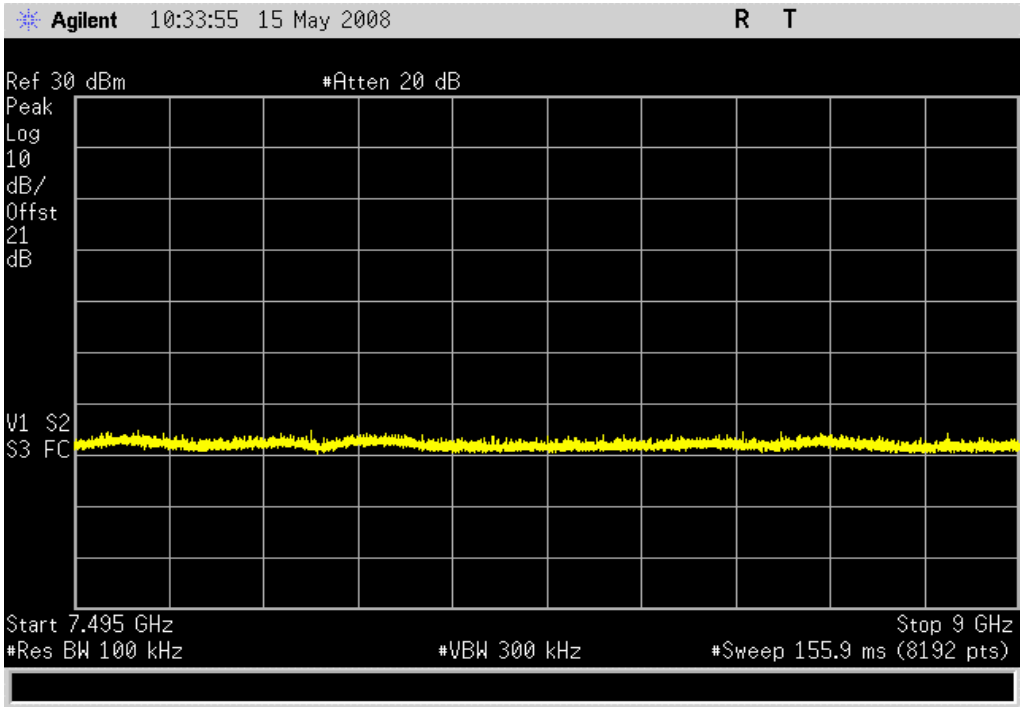
GSM Modulation, High Channel, 4.495GHz-6GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



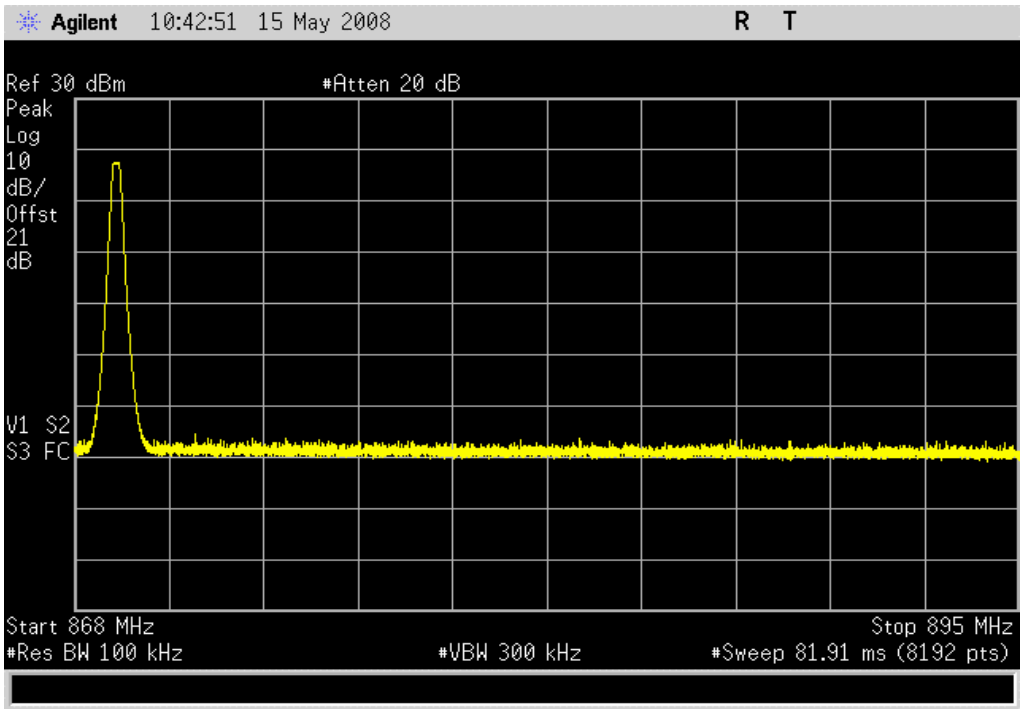
GSM Modulation, High Channel, 5.995GHz-7.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



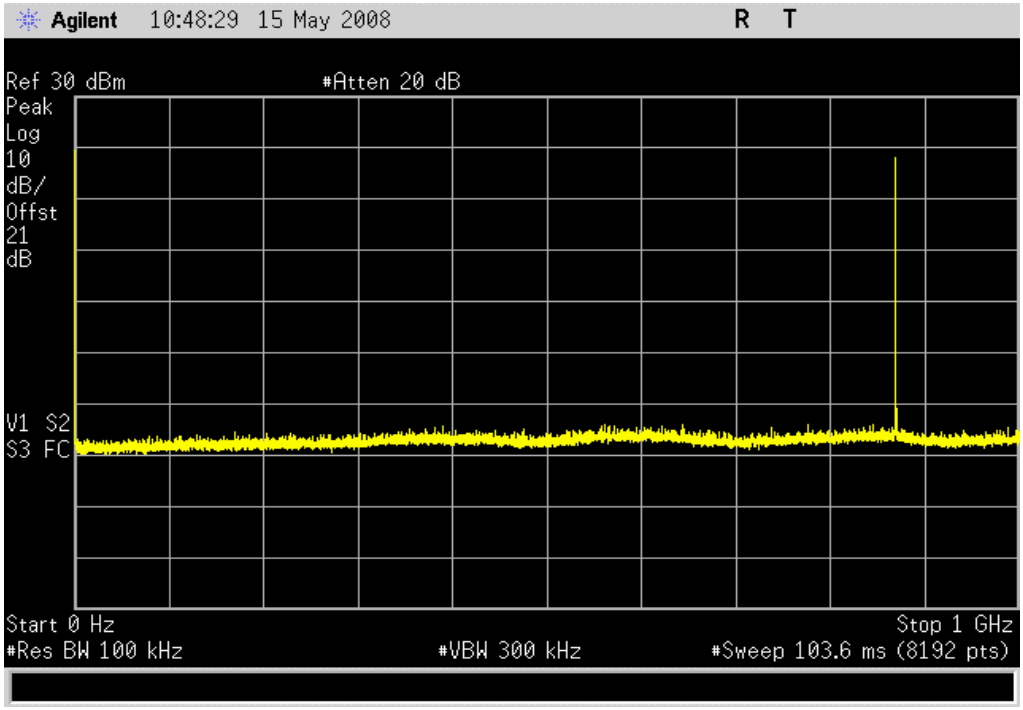
GSM Modulation, High Channel, 7.495GHz-9.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



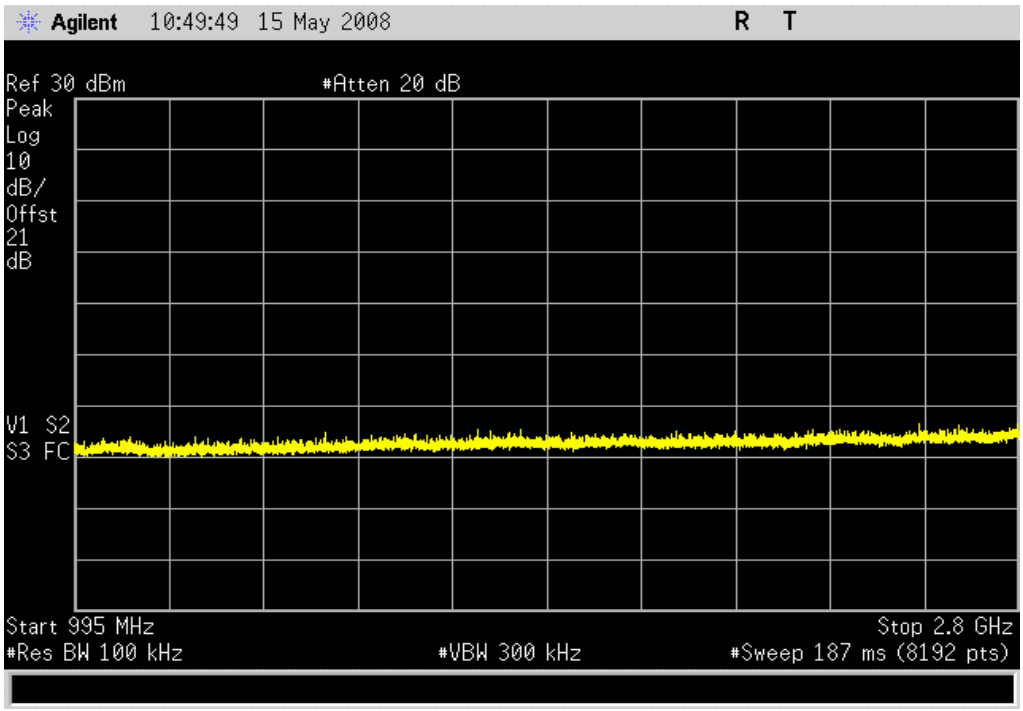
GPRS Modulation, Low Channel, In Band					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



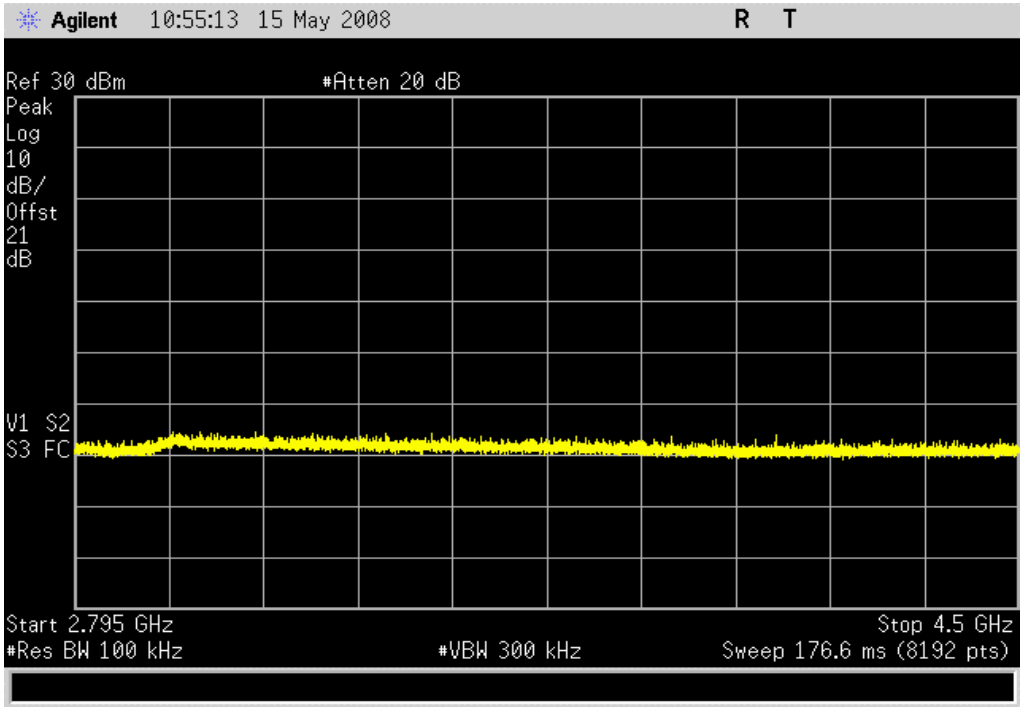
GPRS Modulation, Low Channel, 0-1GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



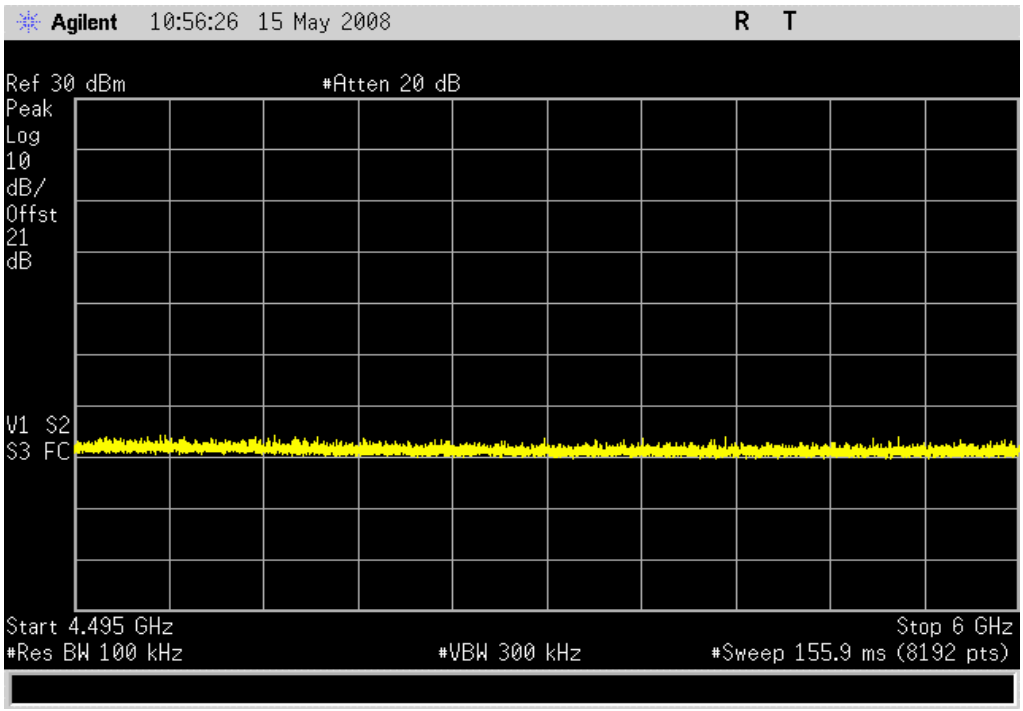
GPRS Modulation, Low Channel, 995MHz-2.8GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



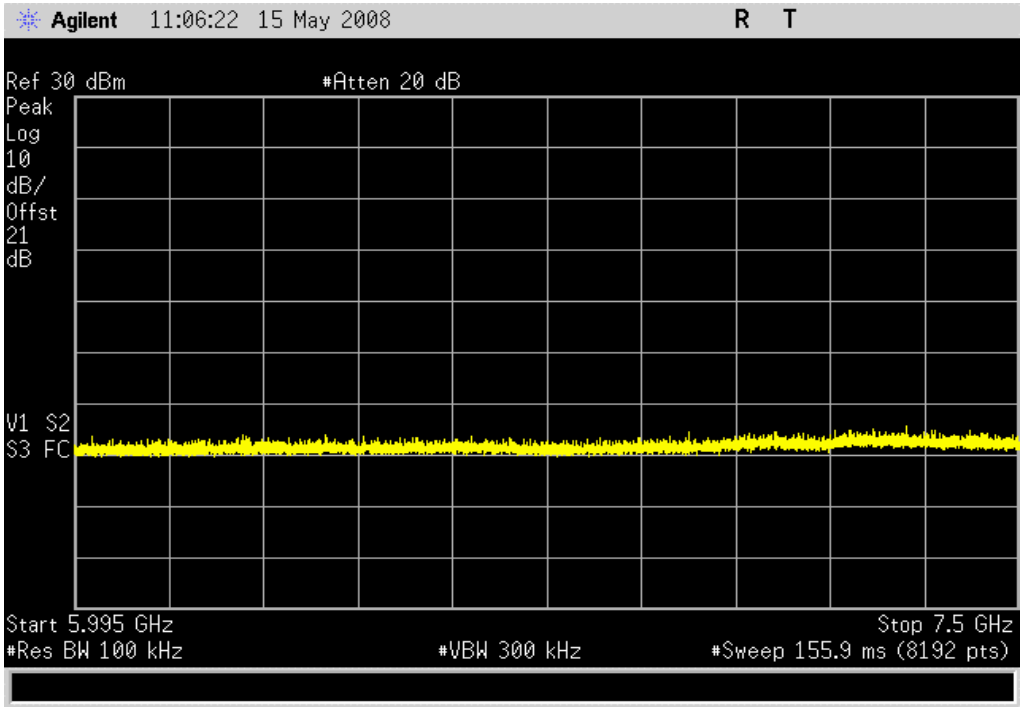
GPRS Modulation, Low Channel, 2.795GHz-4.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



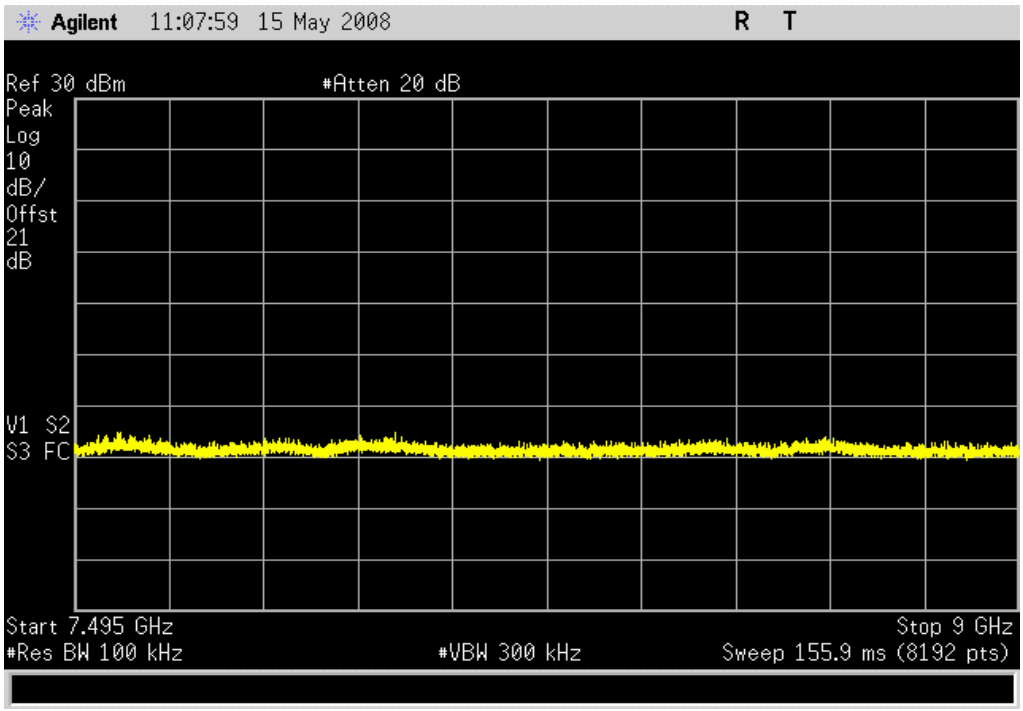
GPRS Modulation, Low Channel, 4.495GHz-6GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



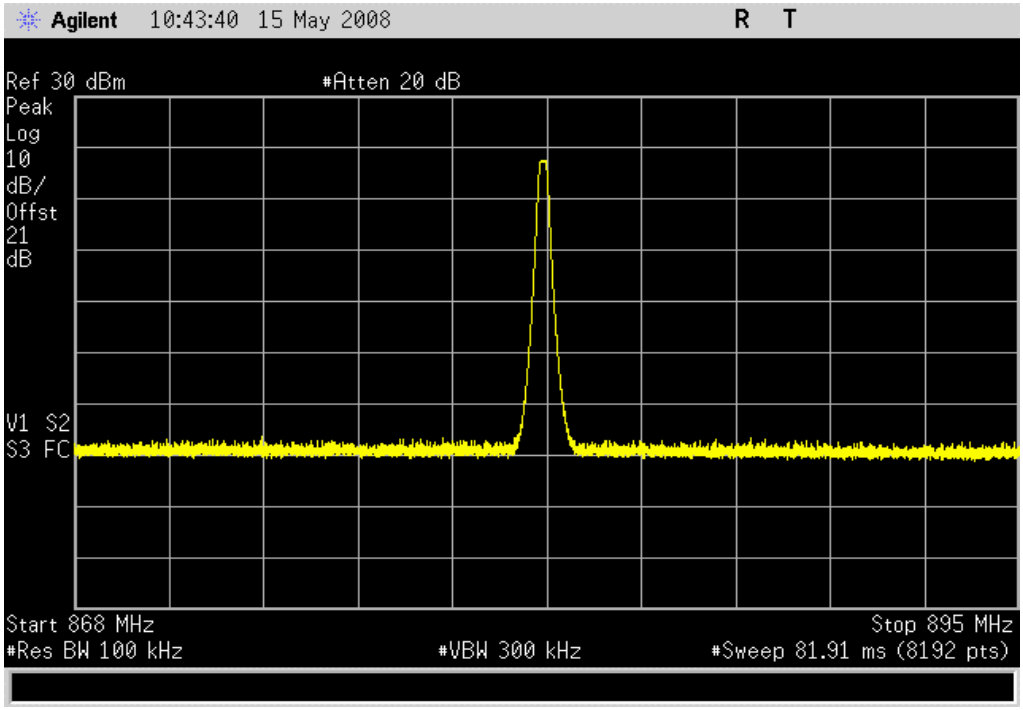
GPRS Modulation, Low Channel, 5.995GHz-7.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



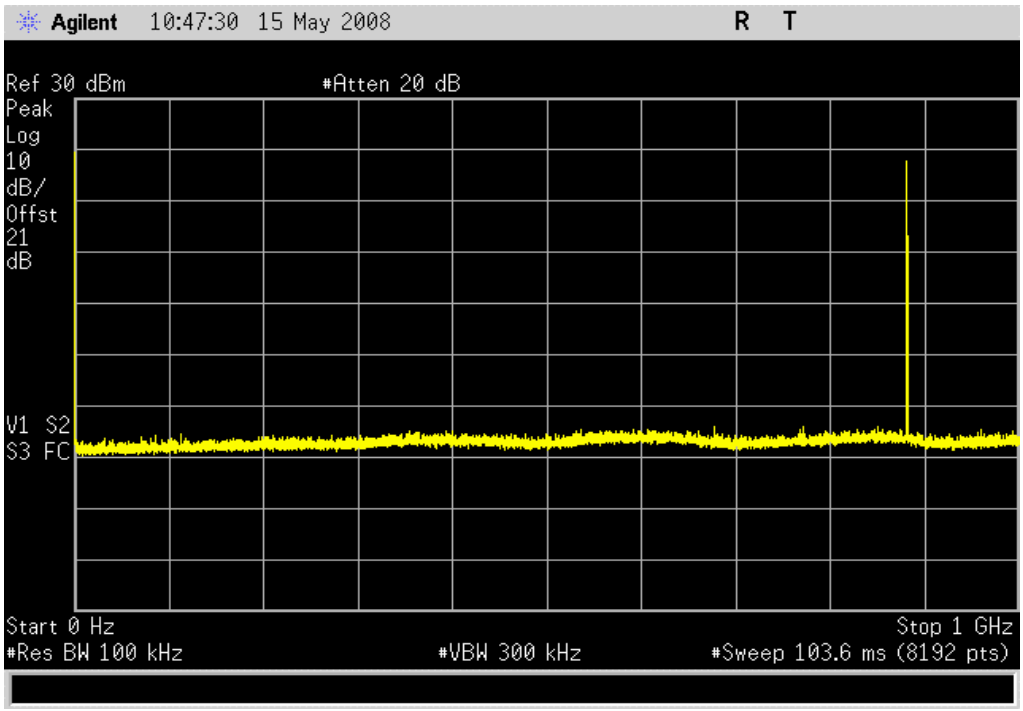
GPRS Modulation, Low Channel, 7.495GHz-9.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



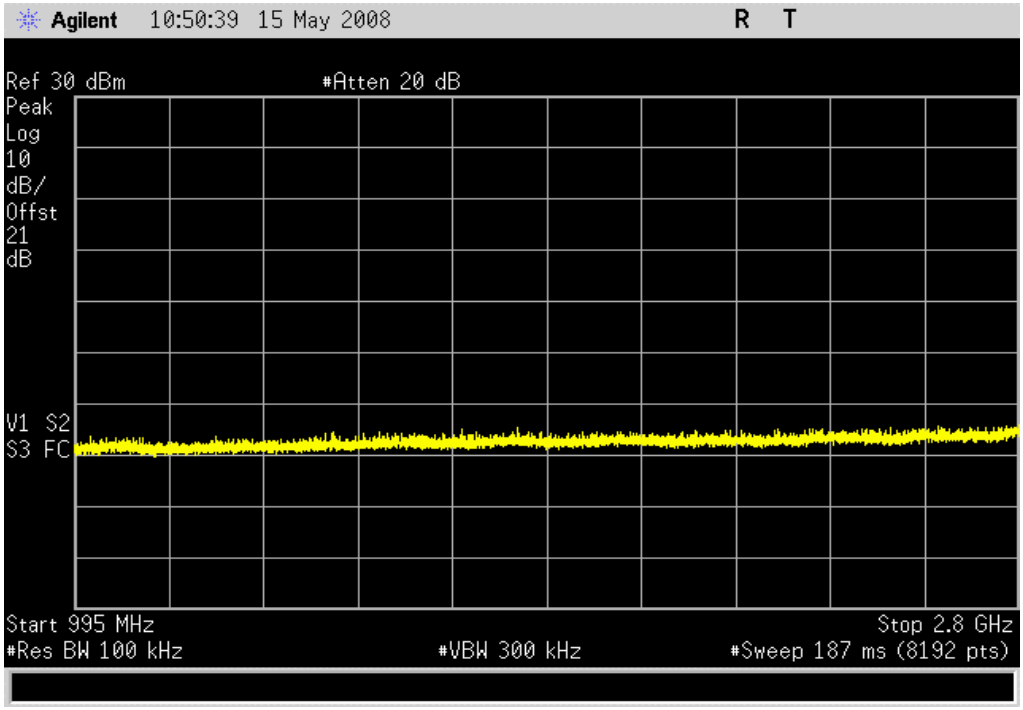
GPRS Modulation, Mid Channel, In Band					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



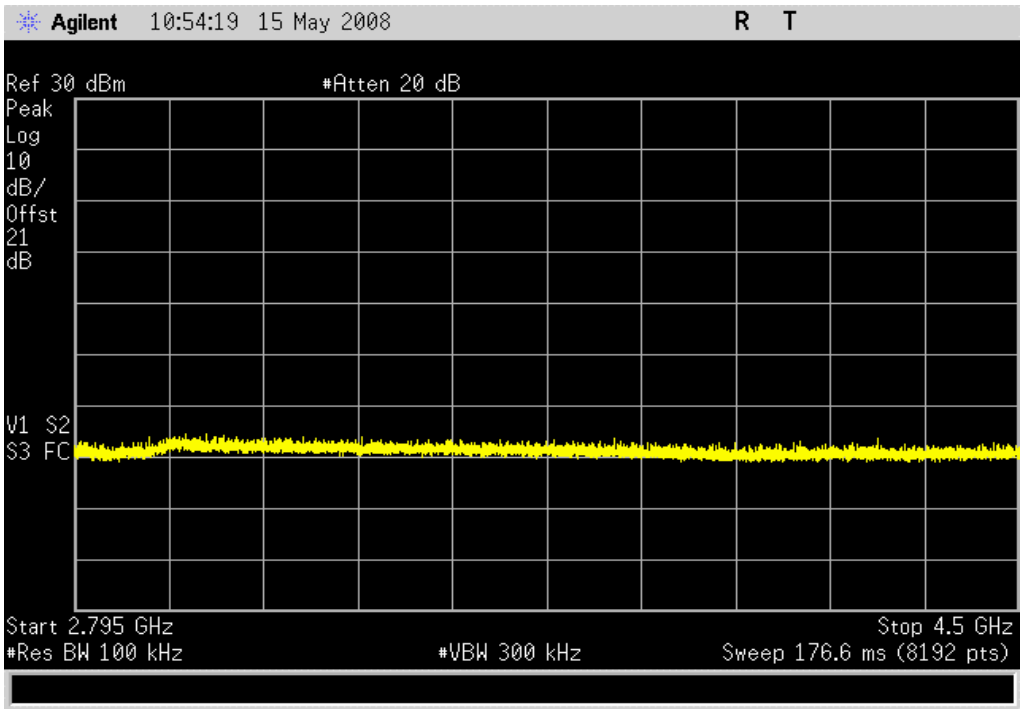
GPRS Modulation, Mid Channel, 0-1GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



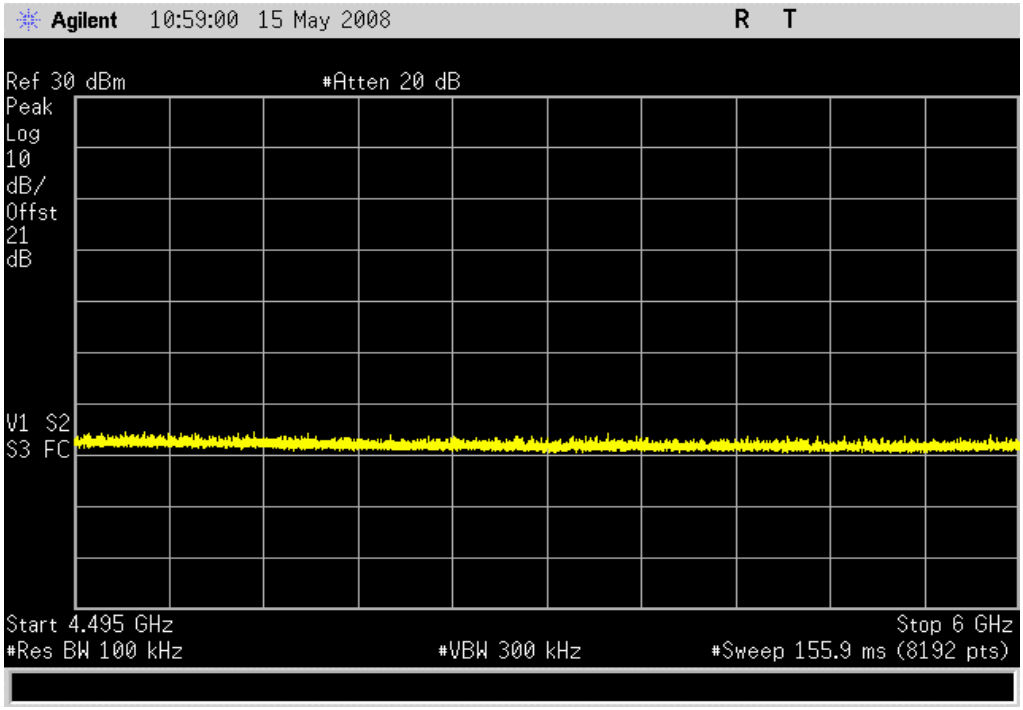
GPRS Modulation, Mid Channel, 995MHz-2.8GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



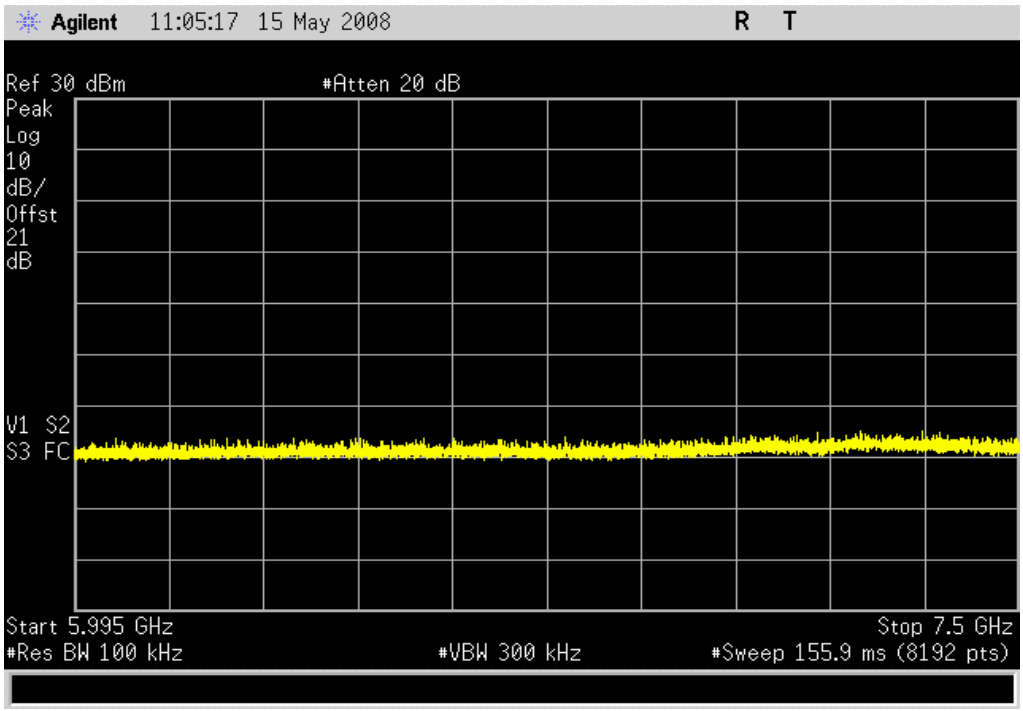
GPRS Modulation, Mid Channel, 2.795GHz-4.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



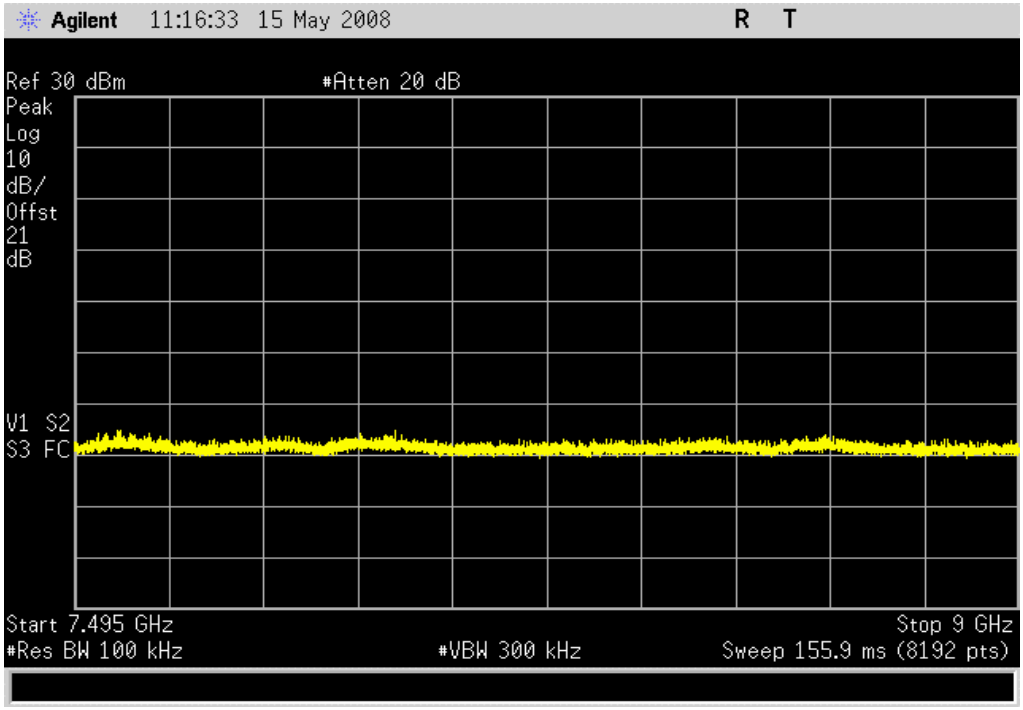
GPRS Modulation, Mid Channel, 4.495GHz-6GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



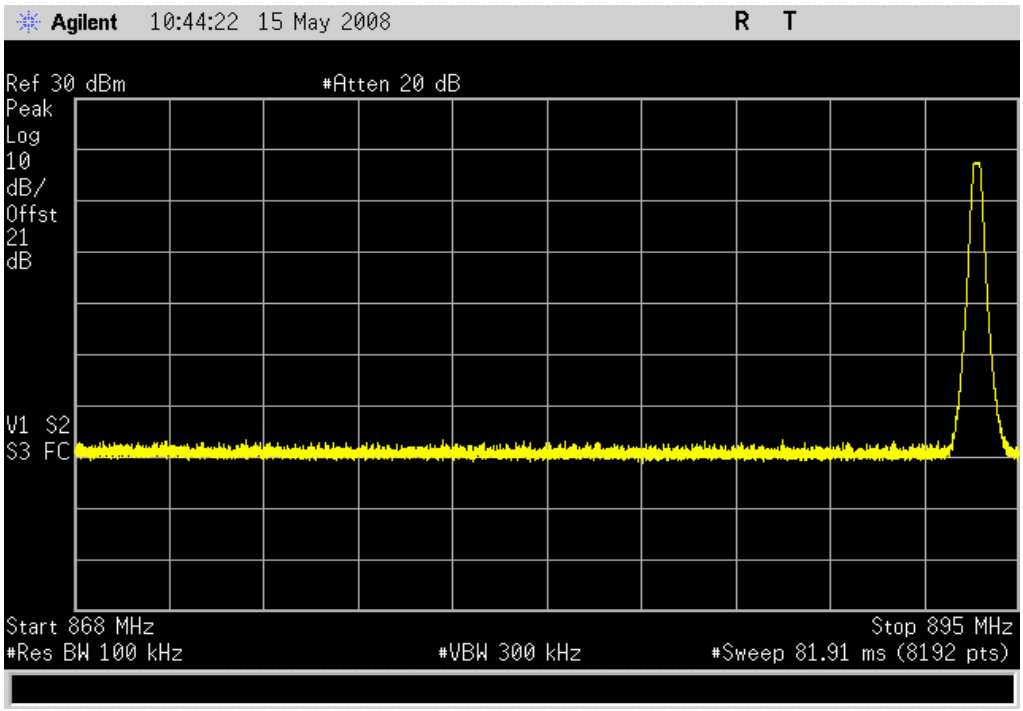
GPRS Modulation, Mid Channel, 5.995GHz-7.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



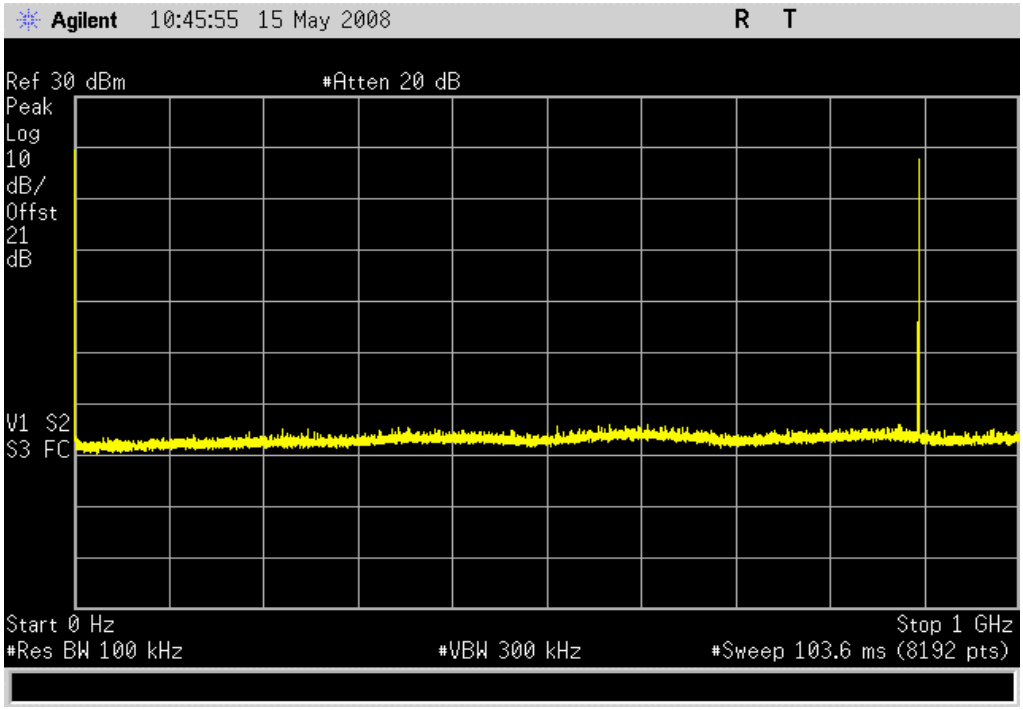
GPRS Modulation, Mid Channel, 7.495GHz-9.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



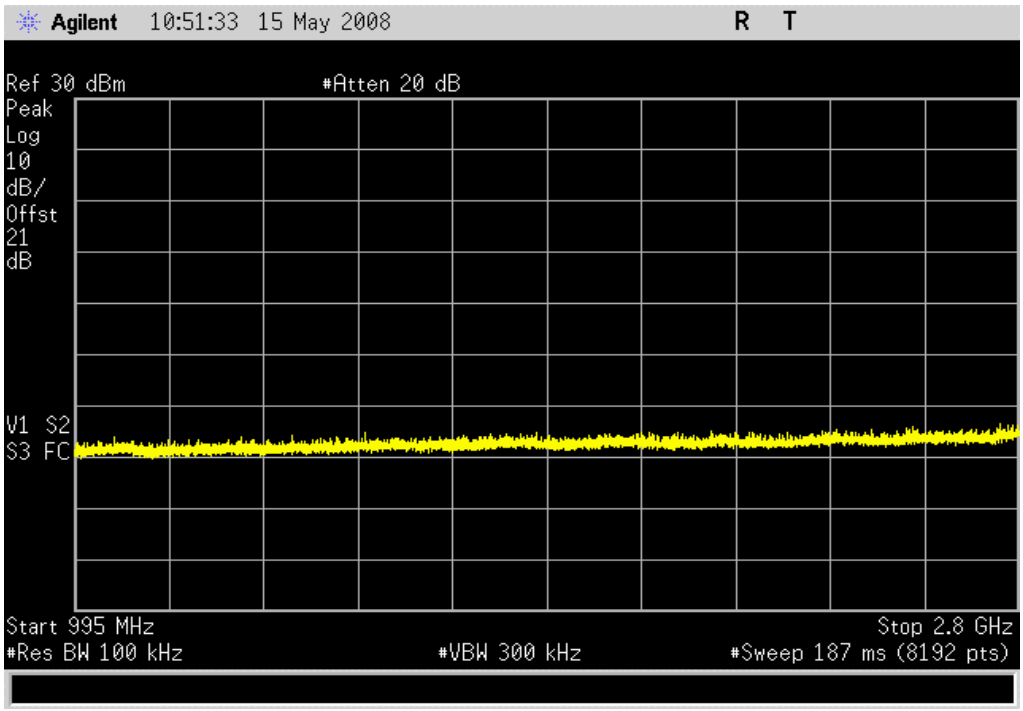
GPRS Modulation, High Channel, In Band					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



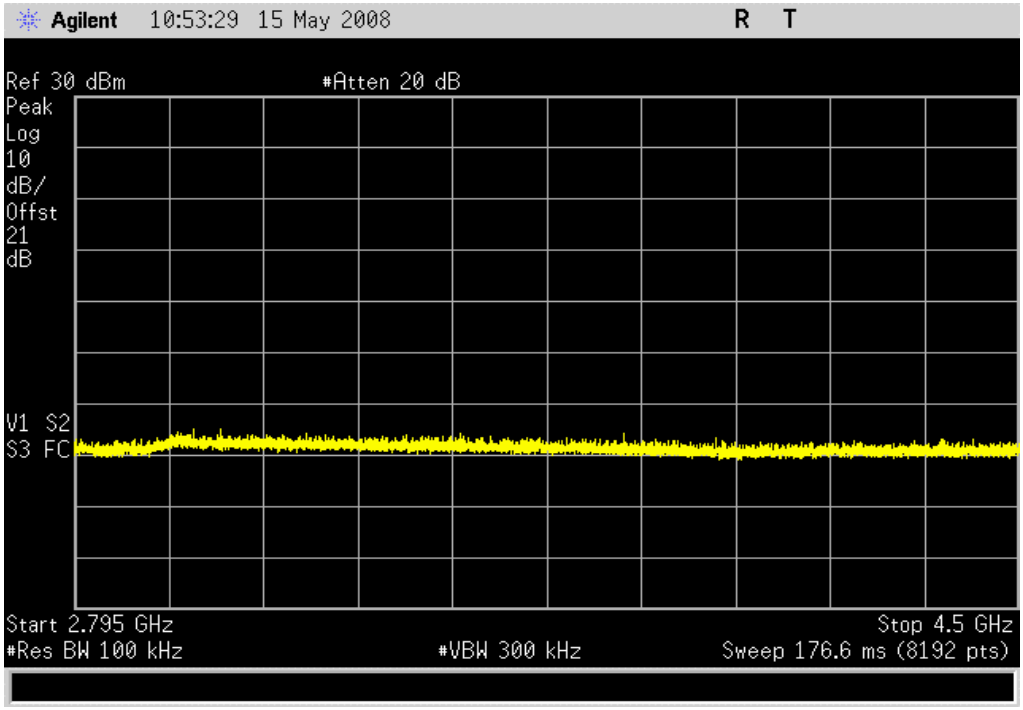
GPRS Modulation, High Channel, 0-1GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



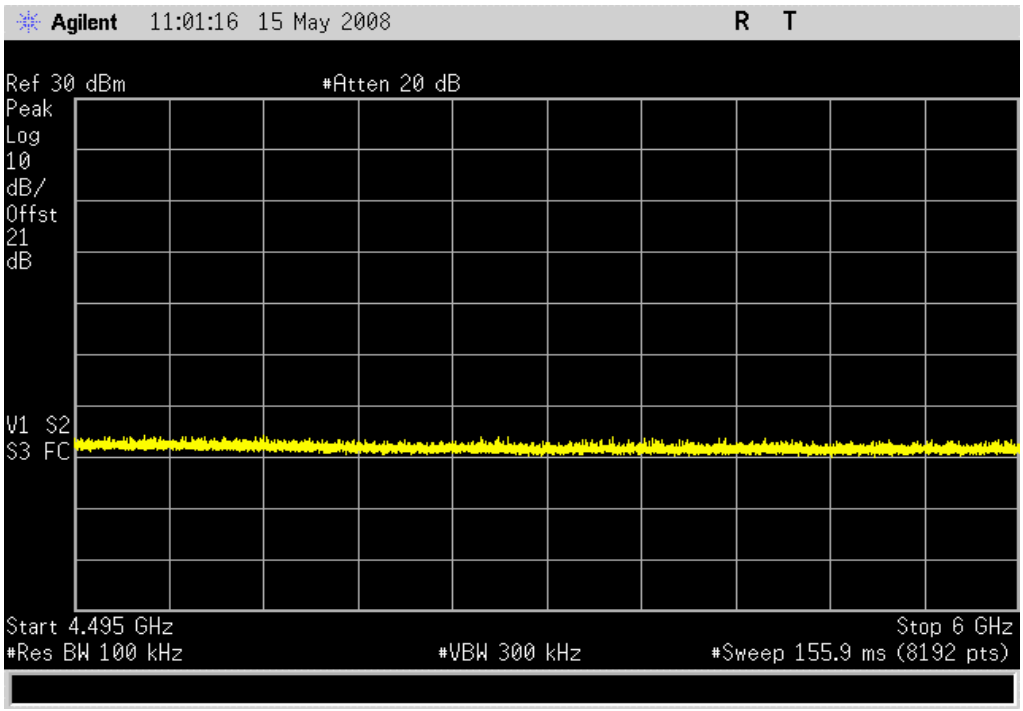
GPRS Modulation, High Channel, 995MHz-2.8GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



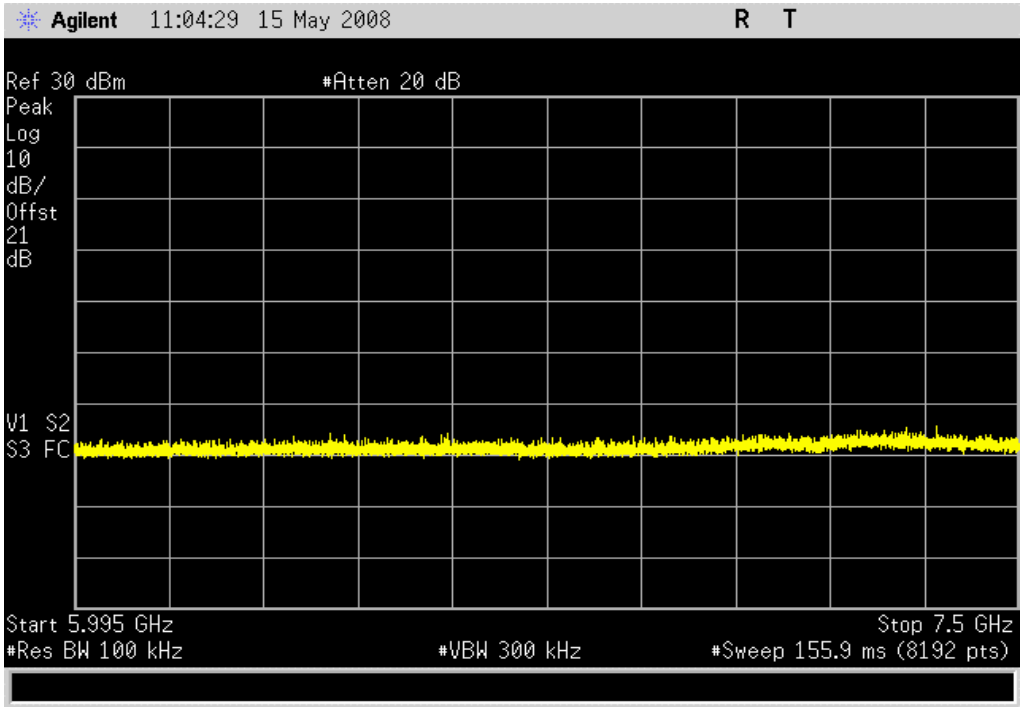
GPRS Modulation, High Channel, 2.795GHz-4.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



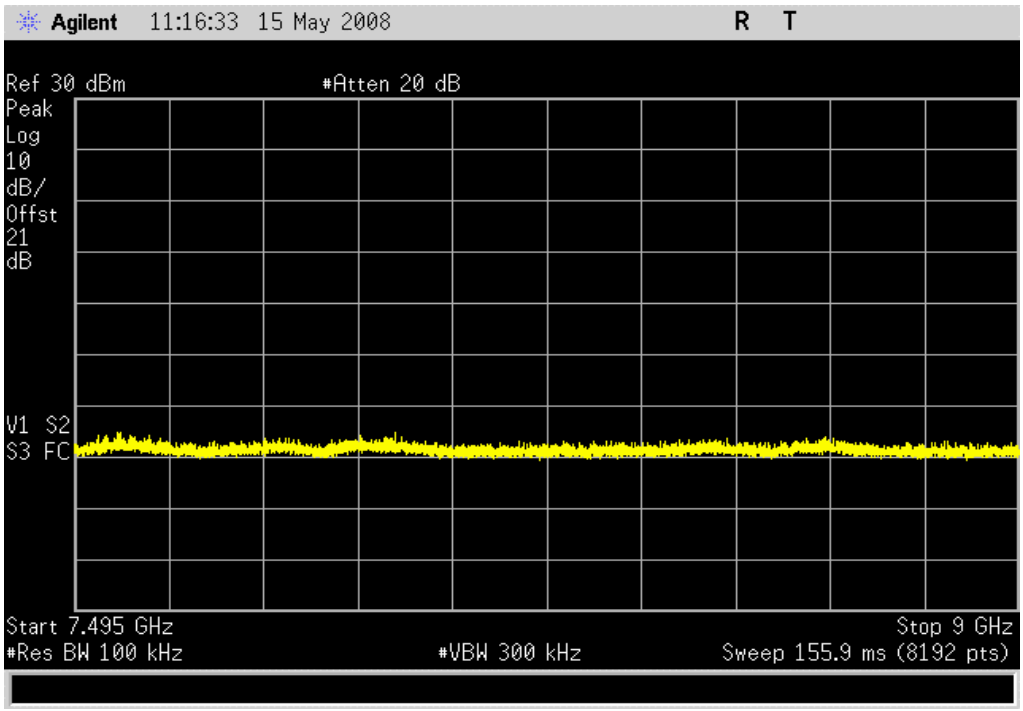
GPRS Modulation, High Channel, 4.495GHz-6GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm

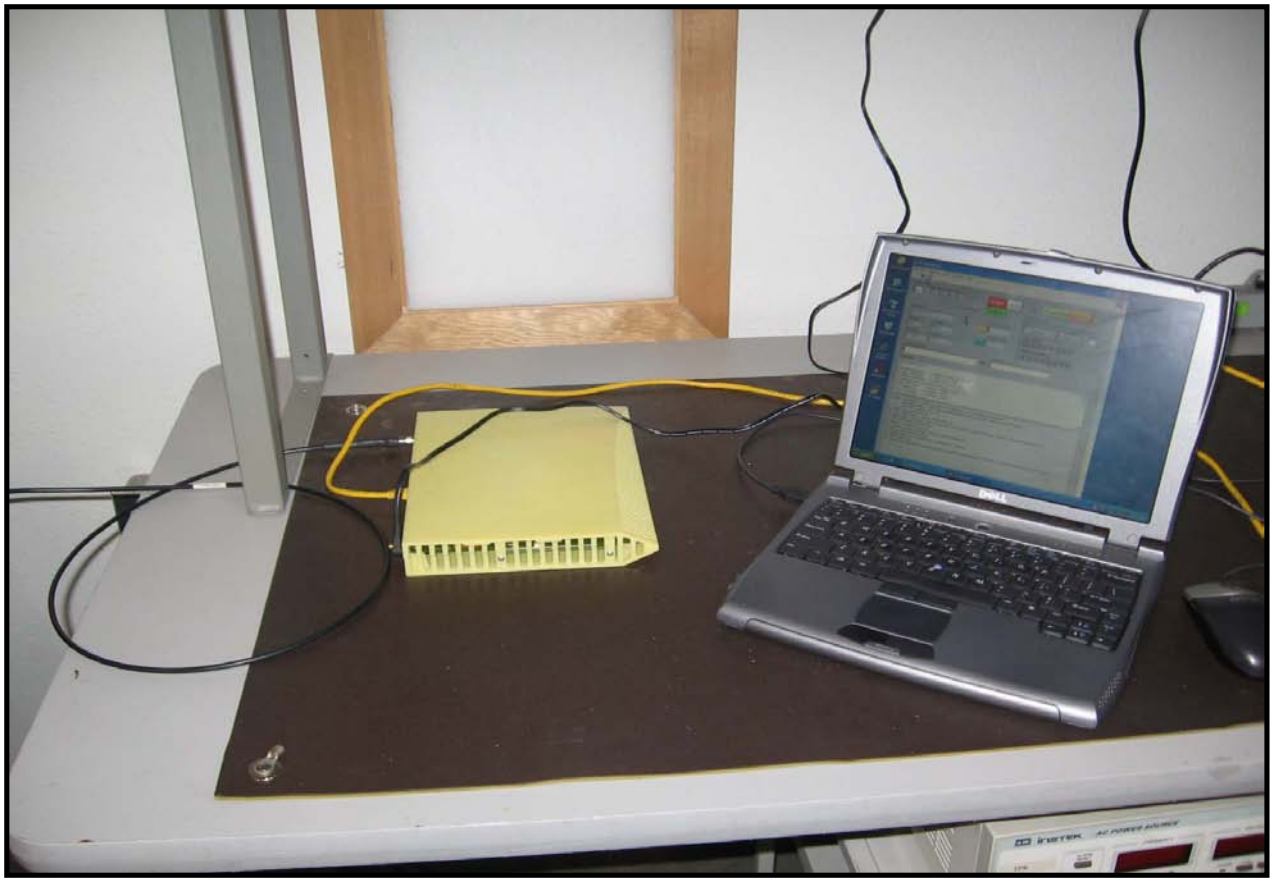


GPRS Modulation, High Channel, 5.995GHz-7.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm



GPRS Modulation, High Channel, 7.495GHz-9.5GHz					
Result:	Pass	**Value:**	≤ - 30 dBm	**Limit:**	≤ -13 dBm





SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antenna port spurious emissions were measured at the RF output terminal of the EUT with 30dB of external attenuation on the RF input of the spectrum analyzer. Analyzer plots utilizing a 1MHz resolution bandwidth and no video filtering were made for each modulation type from 0 to 20 GHz. The peak conducted power of spurious emissions, up to the 10^{th} harmonic of the transmit frequency, were investigated to ensure they were less than or equal to –13 dBm.

NORTHWEST EMC

SPURIOUS EMISSIONS AT ANTENNA TERMINALS

XMit 2007.06.13

EUT:	OmniCell@Home			Work Order:	RAFN0085
Serial Number:	None			Date:	05/15/08
Customer:	Radioframe Networks, Inc.			Temperature:	24°C
Attendees:	None			Humidity:	41%
Project:	None			Barometric Pres.:	1027.5 mB
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV06

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

None

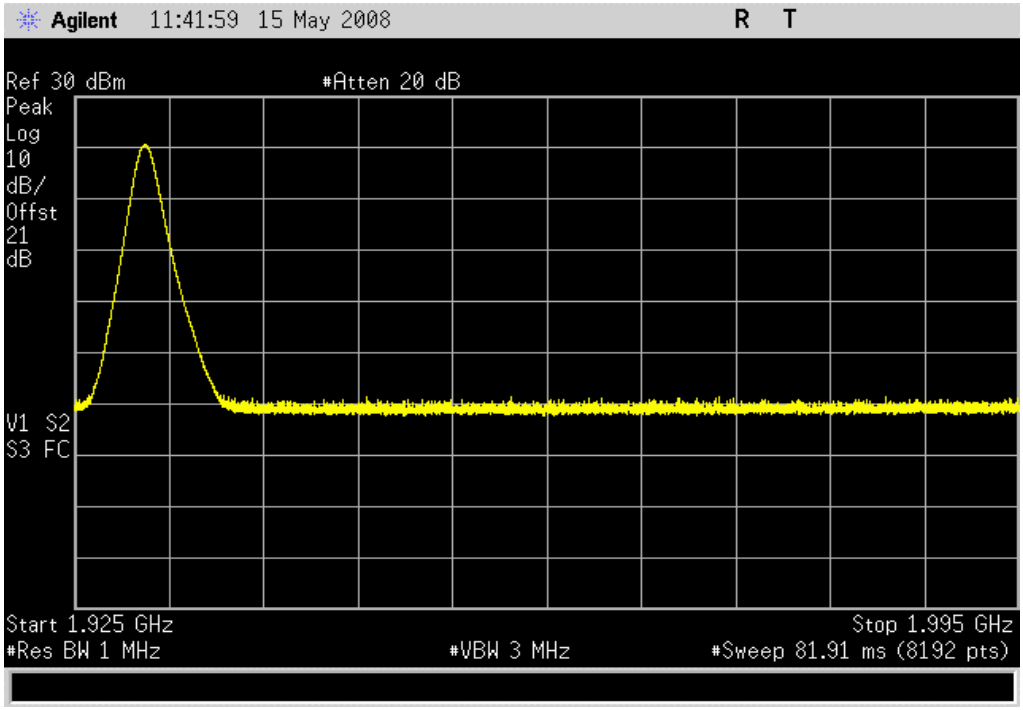
DEVIATIONS FROM TEST STANDARD

No Deviations

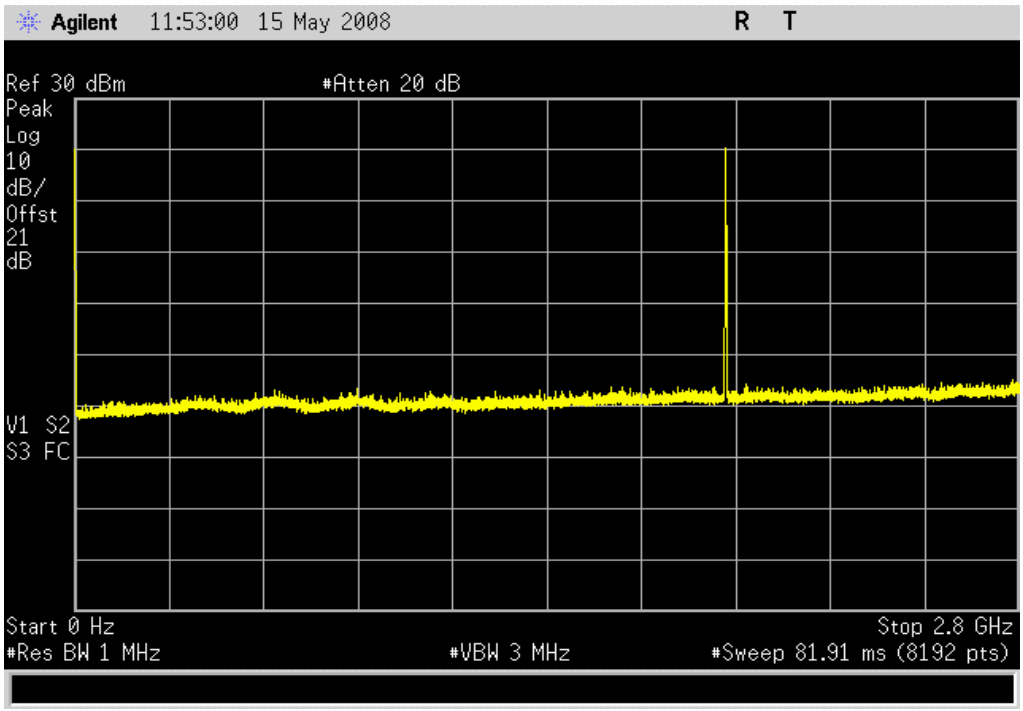
Configuration #	2	Signature

		Value	Limit	Results
GSM Modulation				
	Low Channel			
	In Band	≤ - 25 dBm	≤ -13 dBm	Pass
	0-2.8 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	2.795 GHz-9 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	8.995 GHz-14 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	13.995 GHz-20 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	Mid Channel			
	In Band	≤ - 25 dBm	≤ -13 dBm	Pass
	0-2.8 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	2.795 GHz-9 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	8.995 GHz-14 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	13.995 GHz-20 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	High Channel			
	In Band	≤ - 25 dBm	≤ -13 dBm	Pass
	0-2.8 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	2.795 GHz-9 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	8.995 GHz-14 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	13.995 GHz-20 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
GPRS Modulation				
	Low Channel			
	In Band	≤ - 25 dBm	≤ -13 dBm	Pass
	0-2.8 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	2.795 GHz-9 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	8.995 GHz-14 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	13.995 GHz-20 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	Mid Channel			
	In Band	≤ - 25 dBm	≤ -13 dBm	Pass
	0-2.8 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	2.795 GHz-9 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	8.995 GHz-14 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	13.995 GHz-20 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	High Channel			
	In Band	≤ - 25 dBm	≤ -13 dBm	Pass
	0-2.8 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	2.795 GHz-9 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	8.995 GHz-14 GHz	≤ - 25 dBm	≤ -13 dBm	Pass
	13.995 GHz-20 GHz	≤ - 25 dBm	≤ -13 dBm	Pass

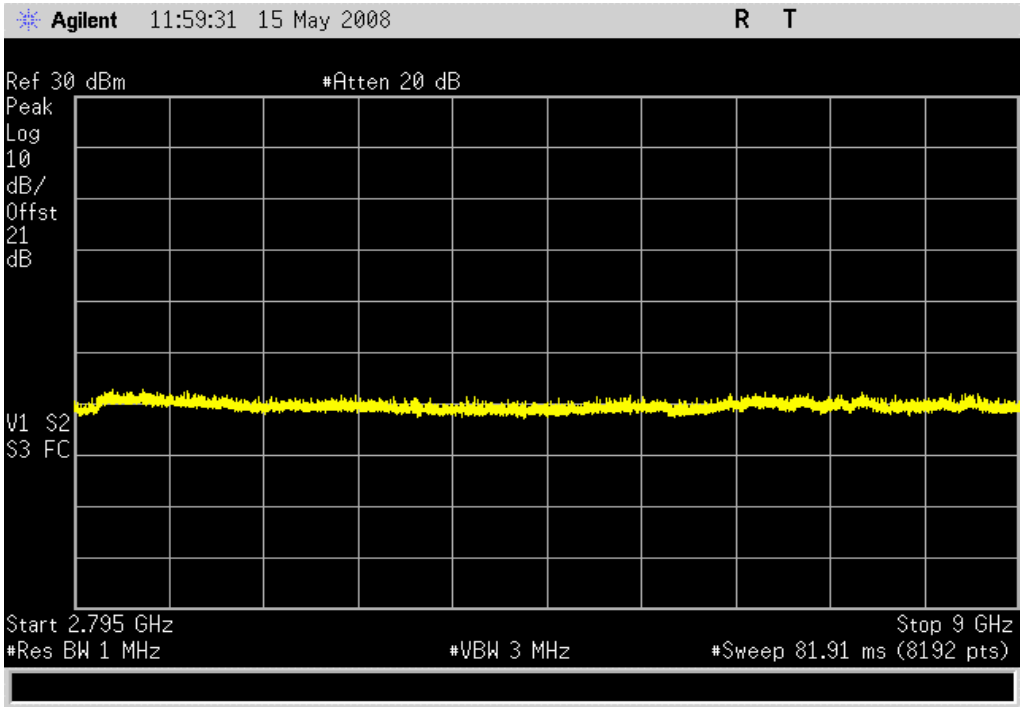
GSM Modulation, Low Channel, In Band					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



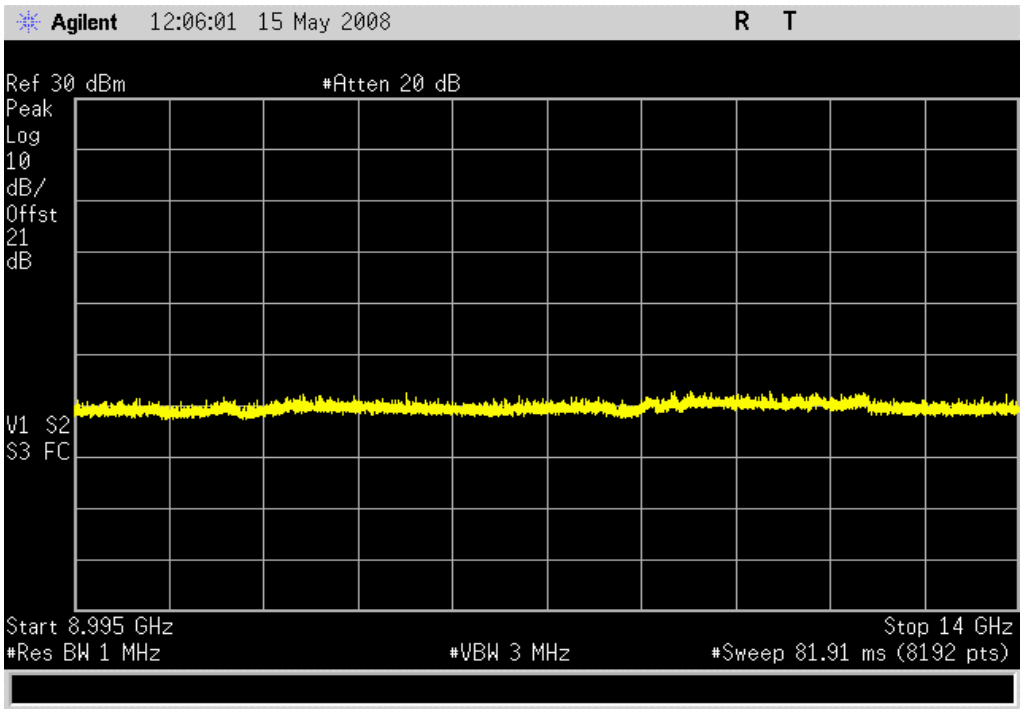
GSM Modulation, Low Channel, 0-2.8 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



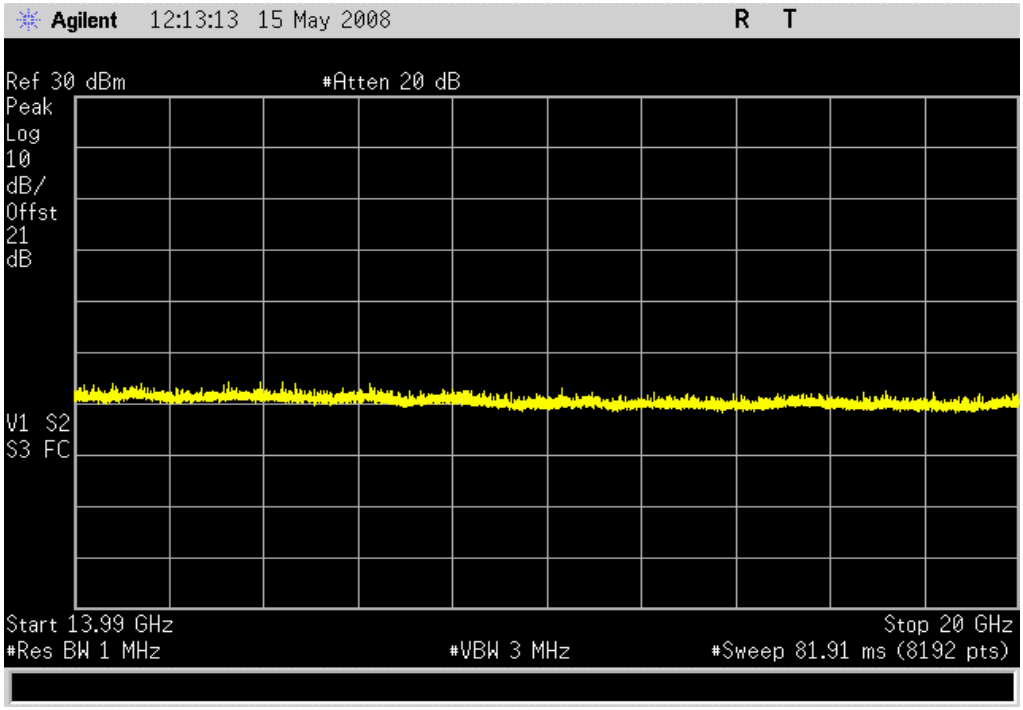
GSM Modulation, Low Channel, 2.795 GHz-9 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



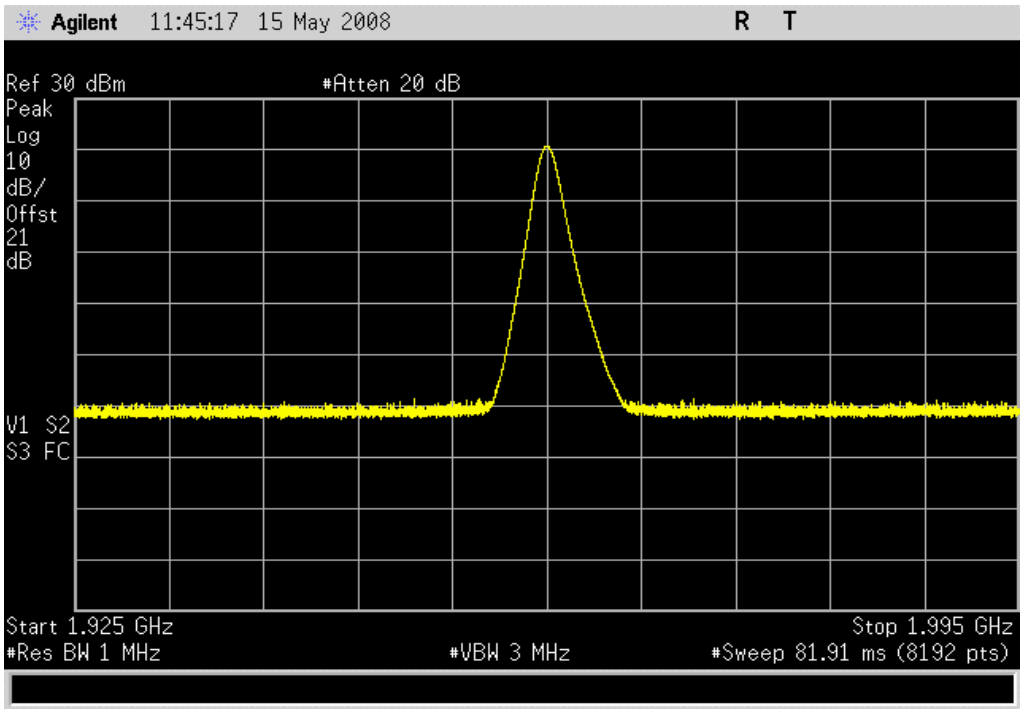
GSM Modulation, Low Channel, 8.995 GHz-14 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



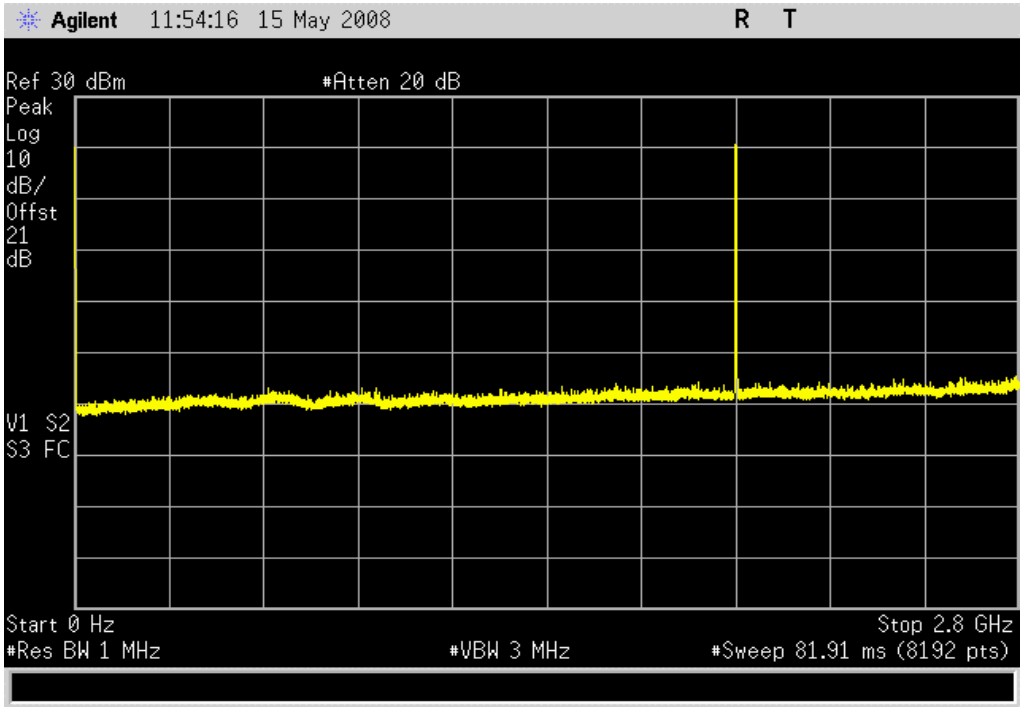
GSM Modulation, Low Channel, 13.995 GHz-20 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



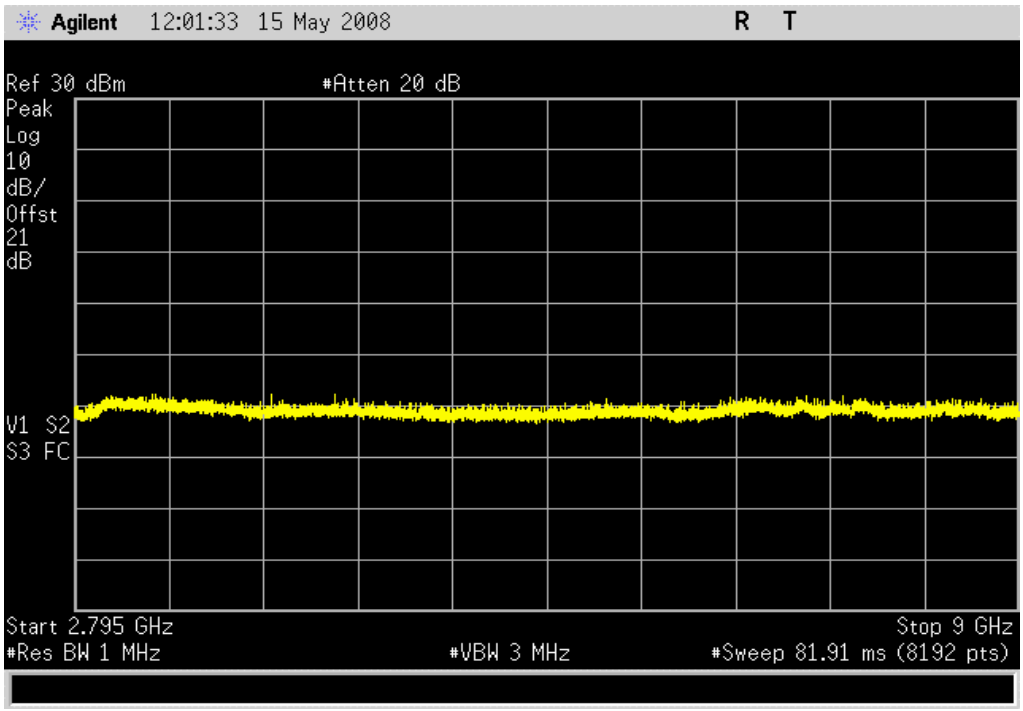
GSM Modulation, Mid Channel, In Band					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



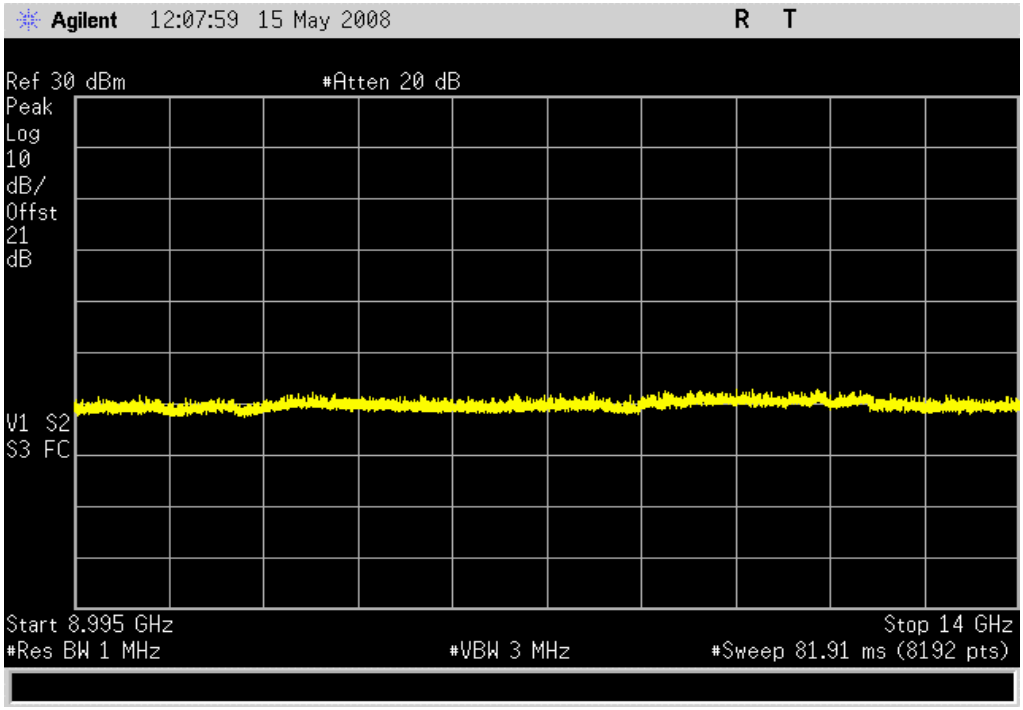
GSM Modulation, Mid Channel, 0-2.8 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



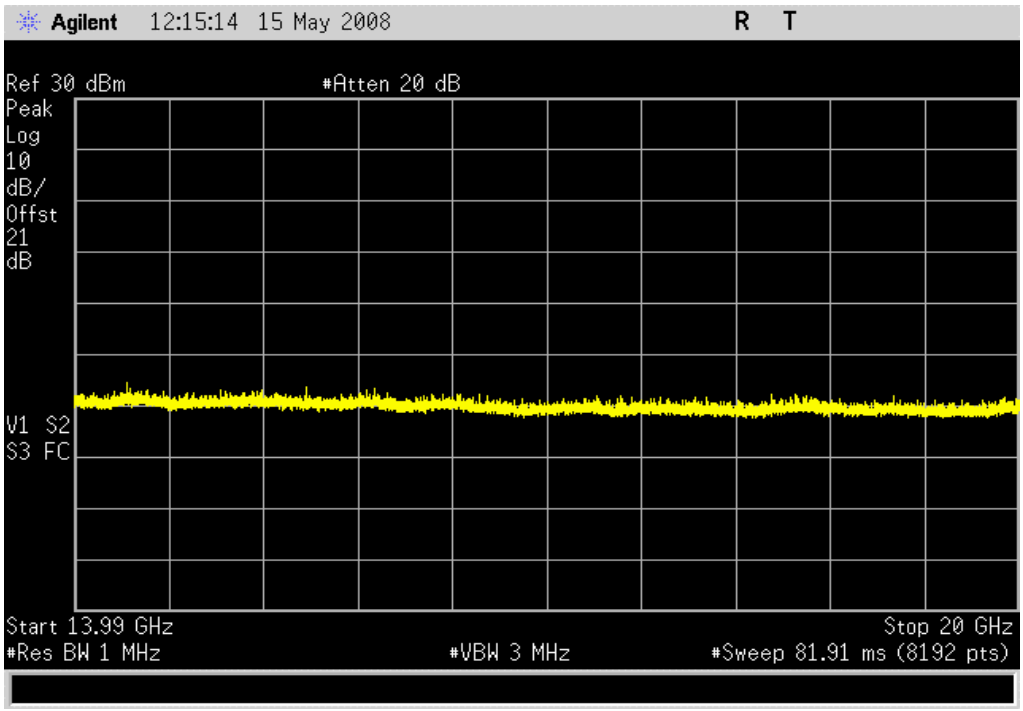
GSM Modulation, Mid Channel, 2.795 GHz-9 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



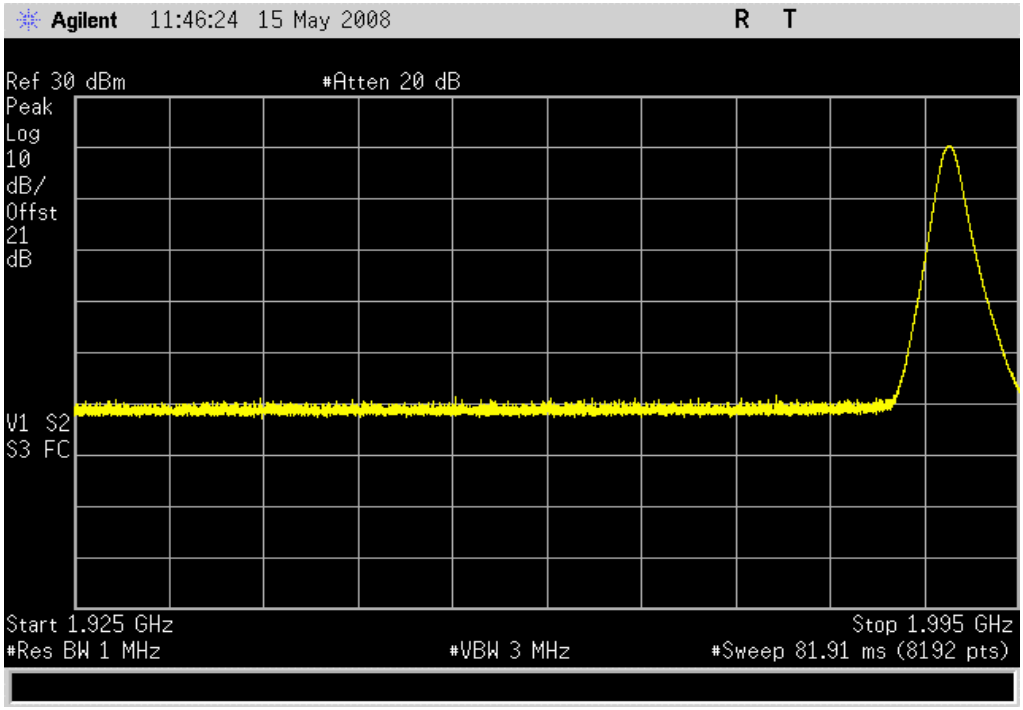
GSM Modulation, Mid Channel, 8.995 GHz-14 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



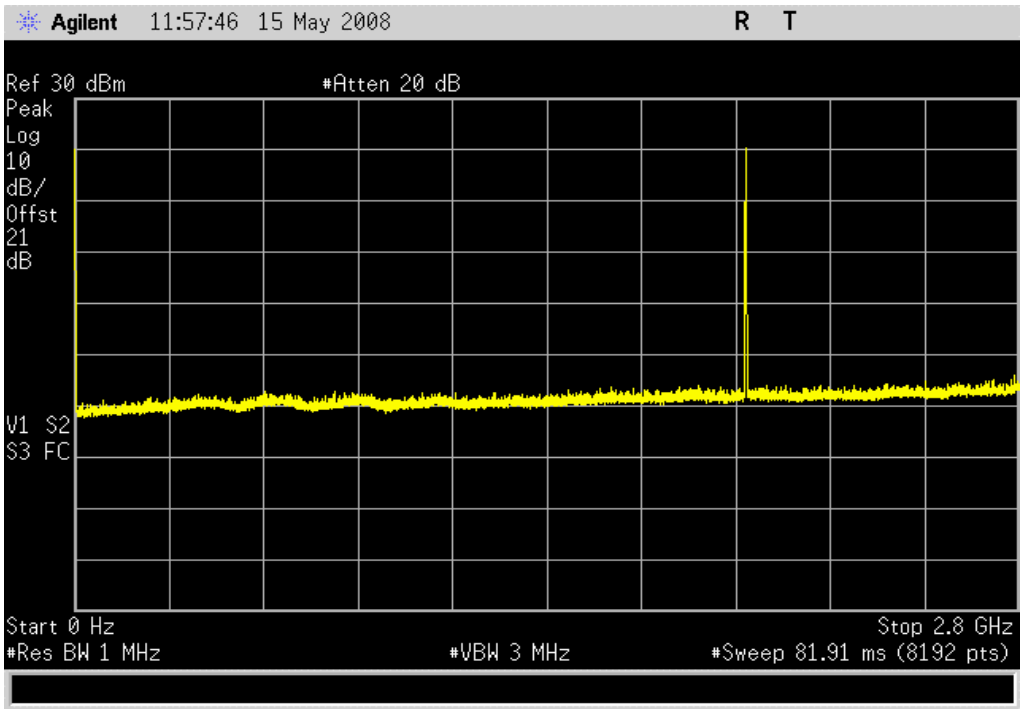
GSM Modulation, Mid Channel, 13.995 GHz-20 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



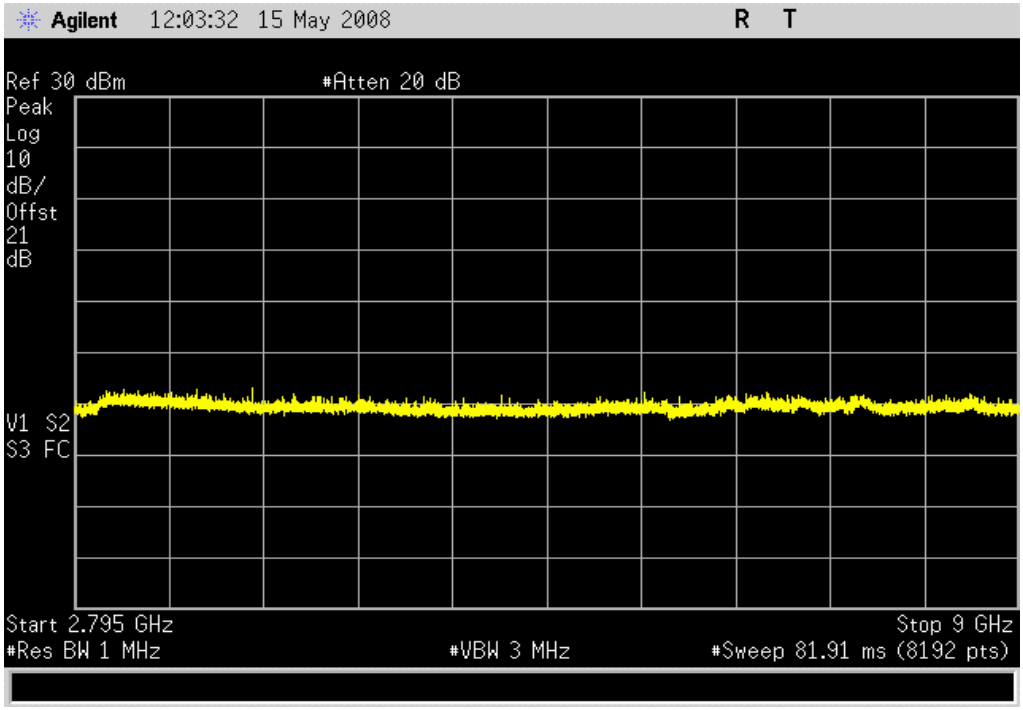
GSM Modulation, High Channel, In Band					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



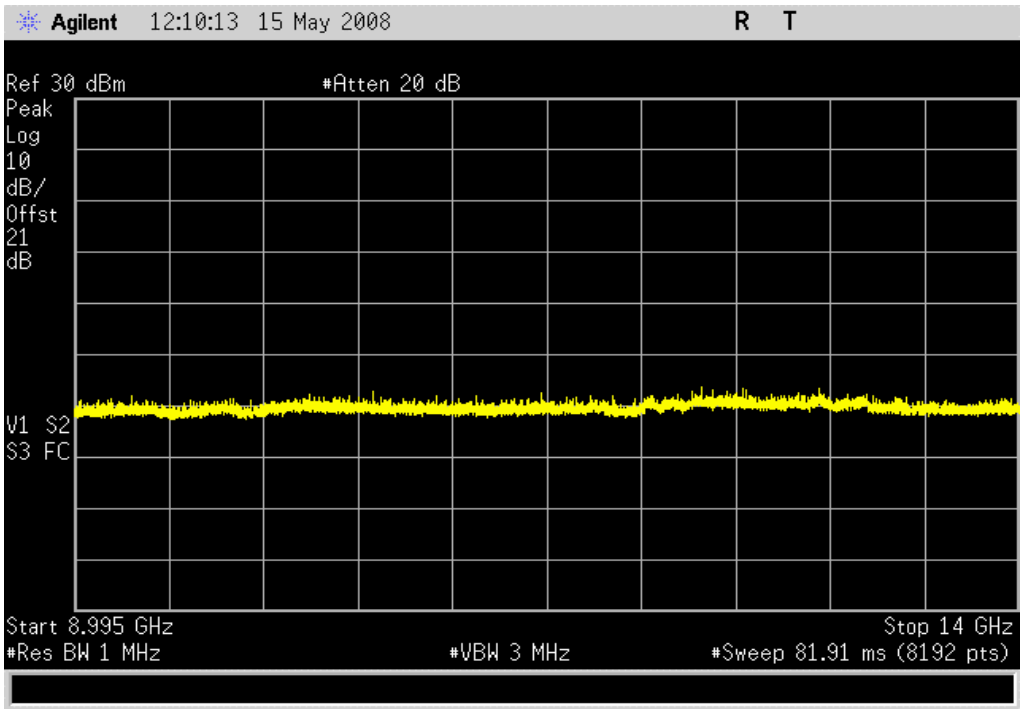
GSM Modulation, High Channel, 0-2.8 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



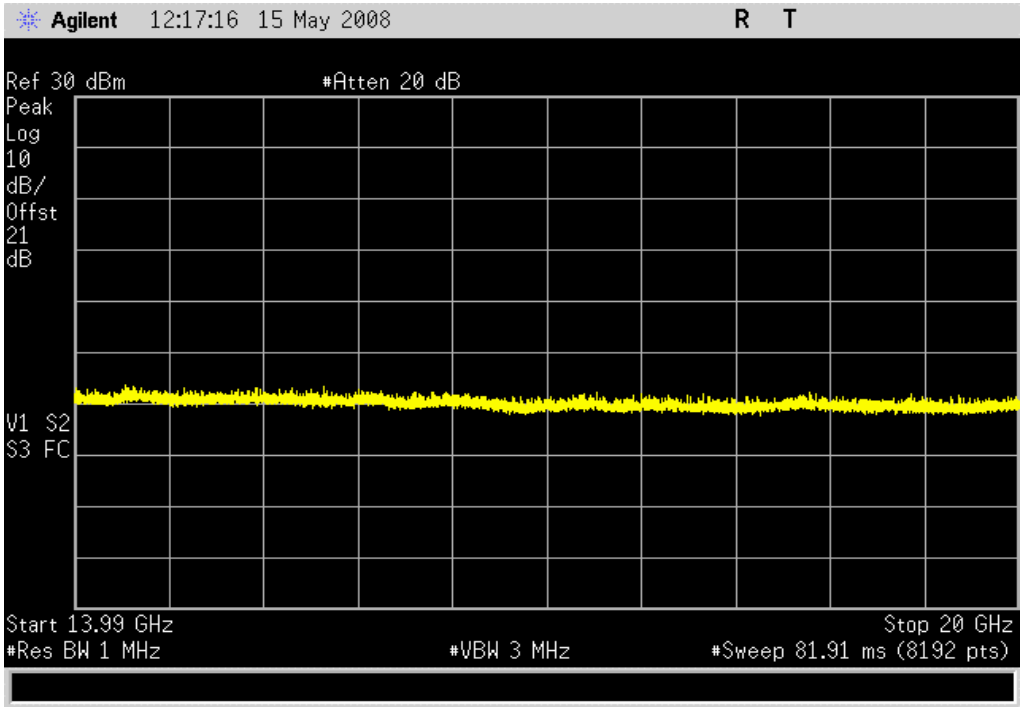
GSM Modulation, High Channel, 2.795 GHz-9 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



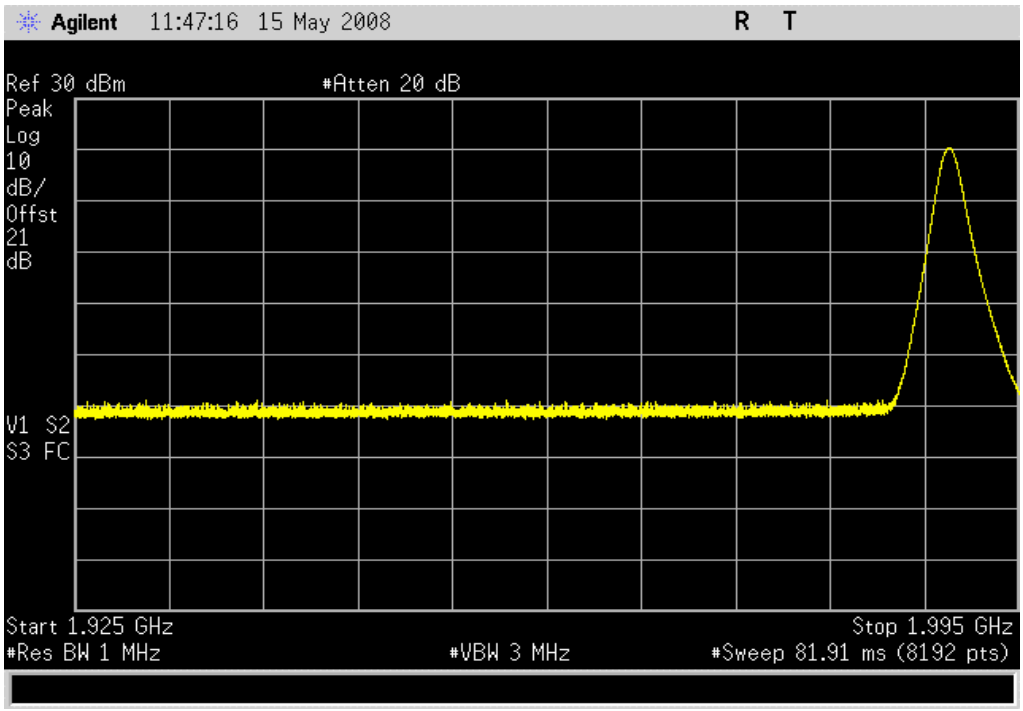
GSM Modulation, High Channel, 8.995 GHz-14 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



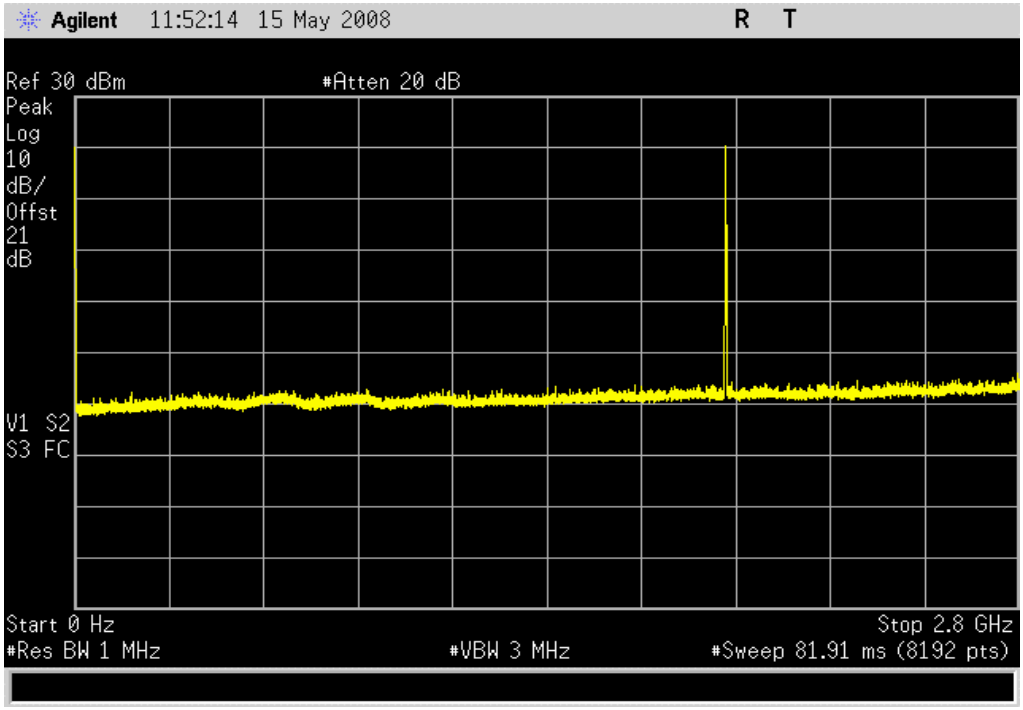
GSM Modulation, High Channel, 13.995 GHz-20 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



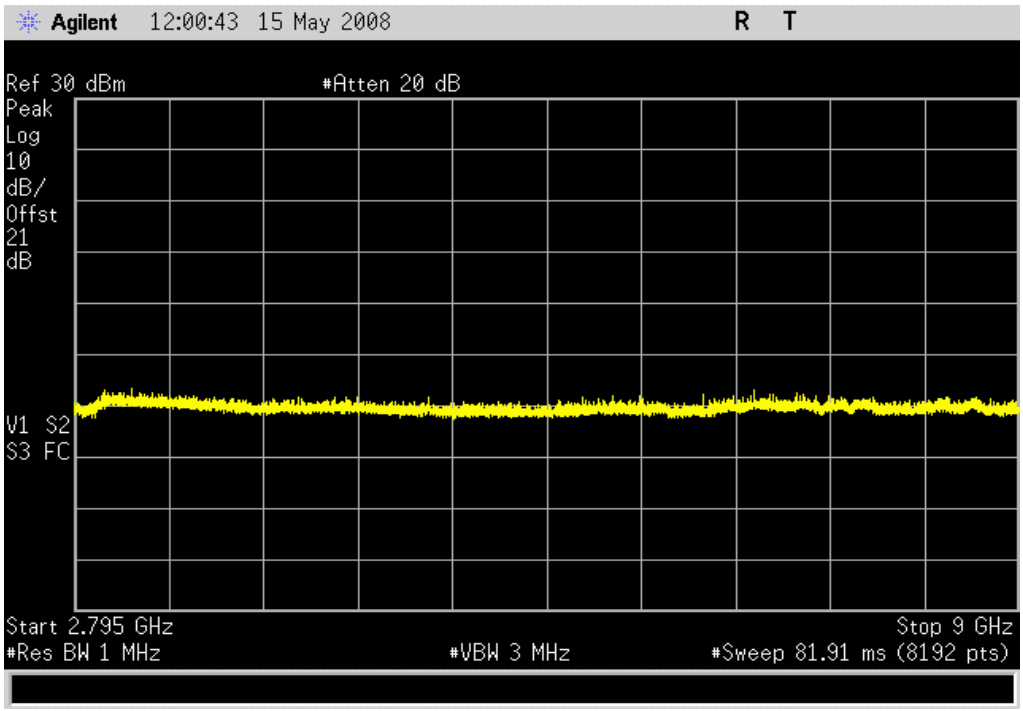
GPRS Modulation, Low Channel, In Band					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



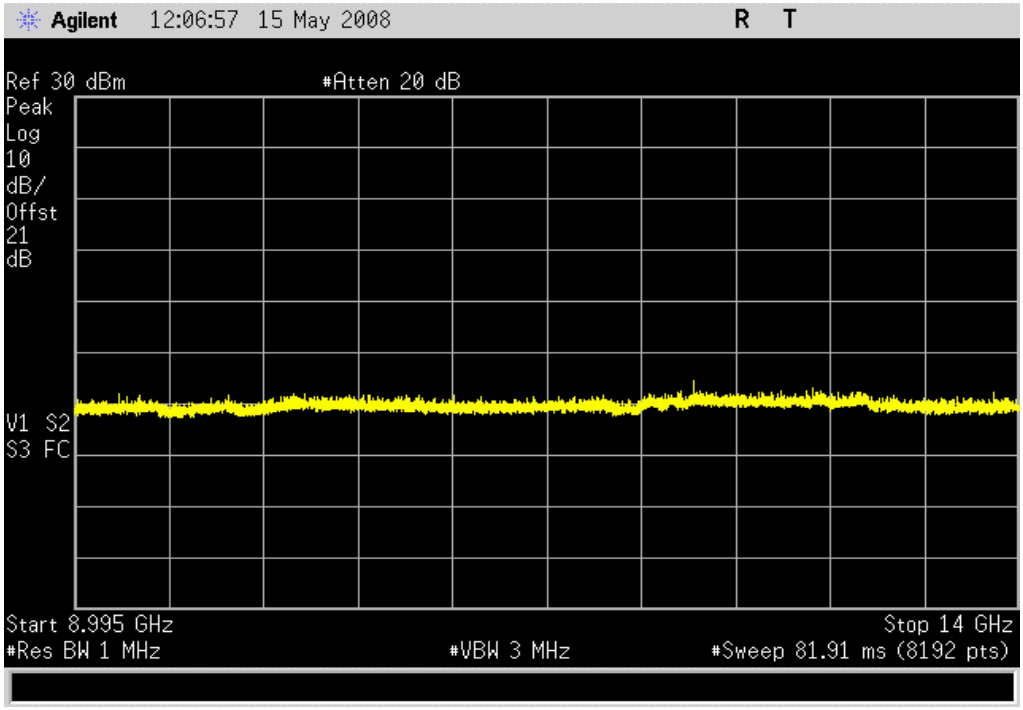
GPRS Modulation, Low Channel, 0-2.8 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



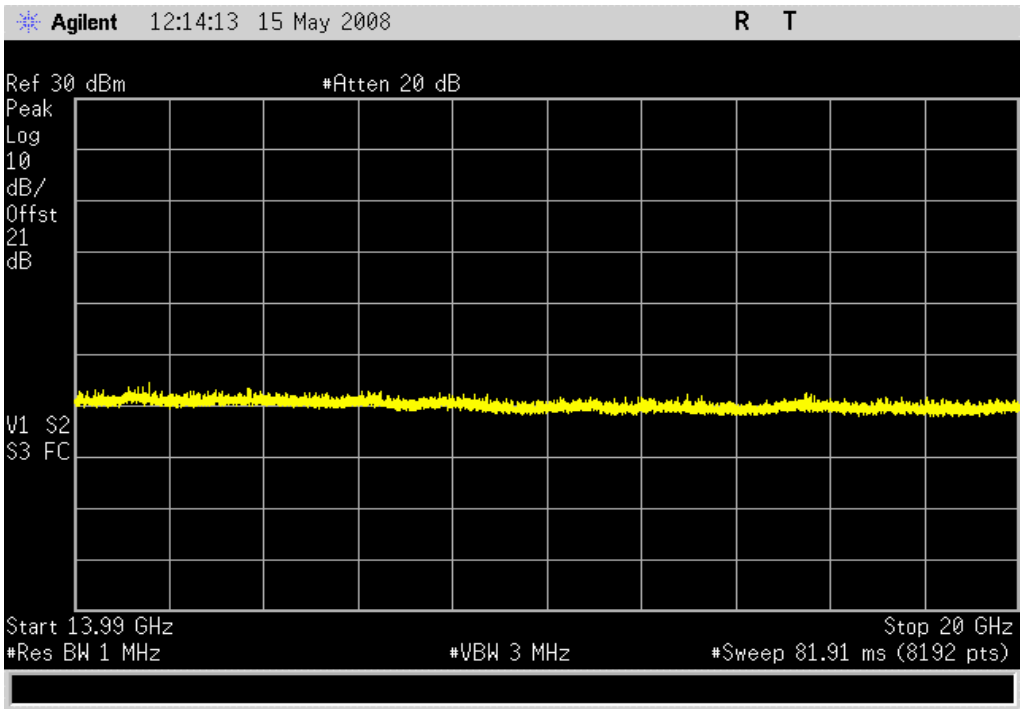
GPRS Modulation, Low Channel, 2.795 GHz-9 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



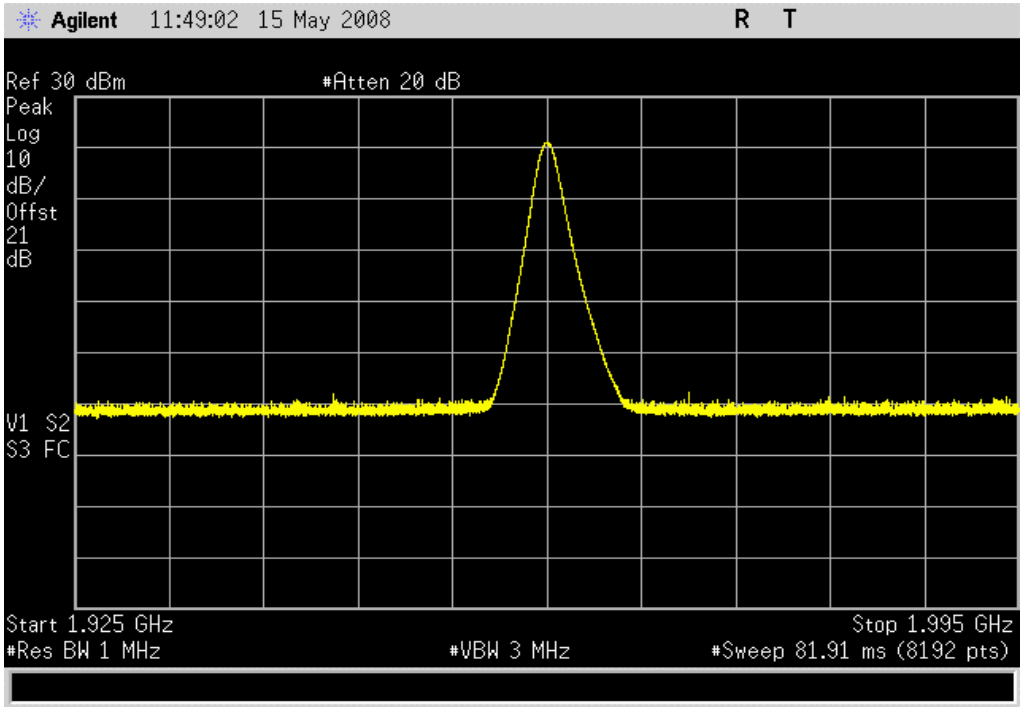
GPRS Modulation, Low Channel, 8.995 GHz-14 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



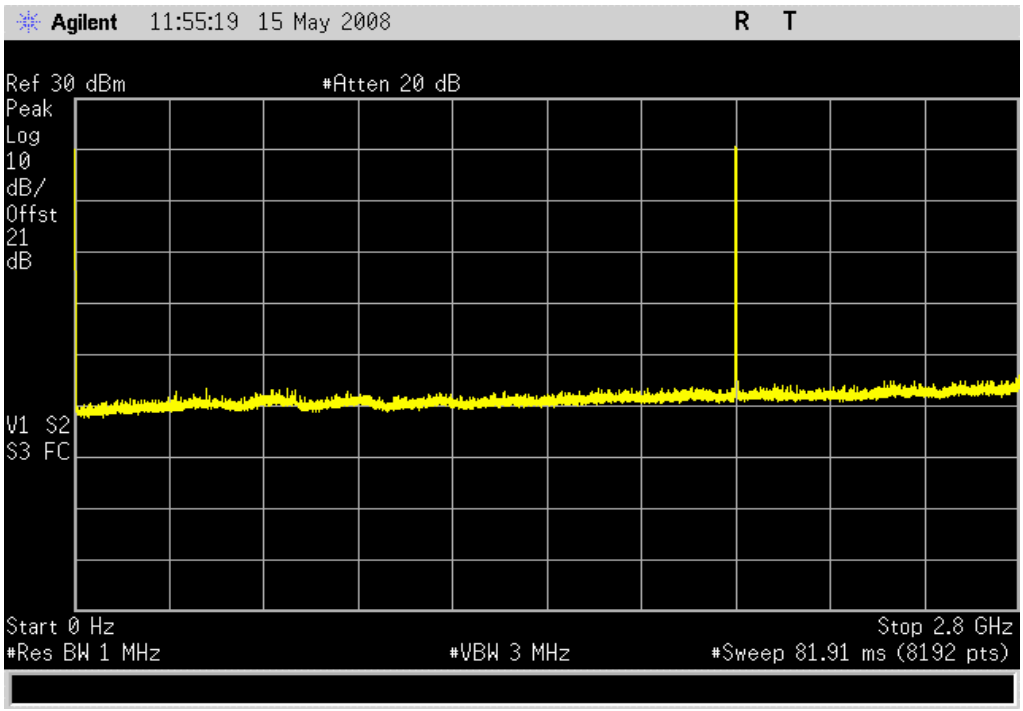
GPRS Modulation, Low Channel, 13.995 GHz-20 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



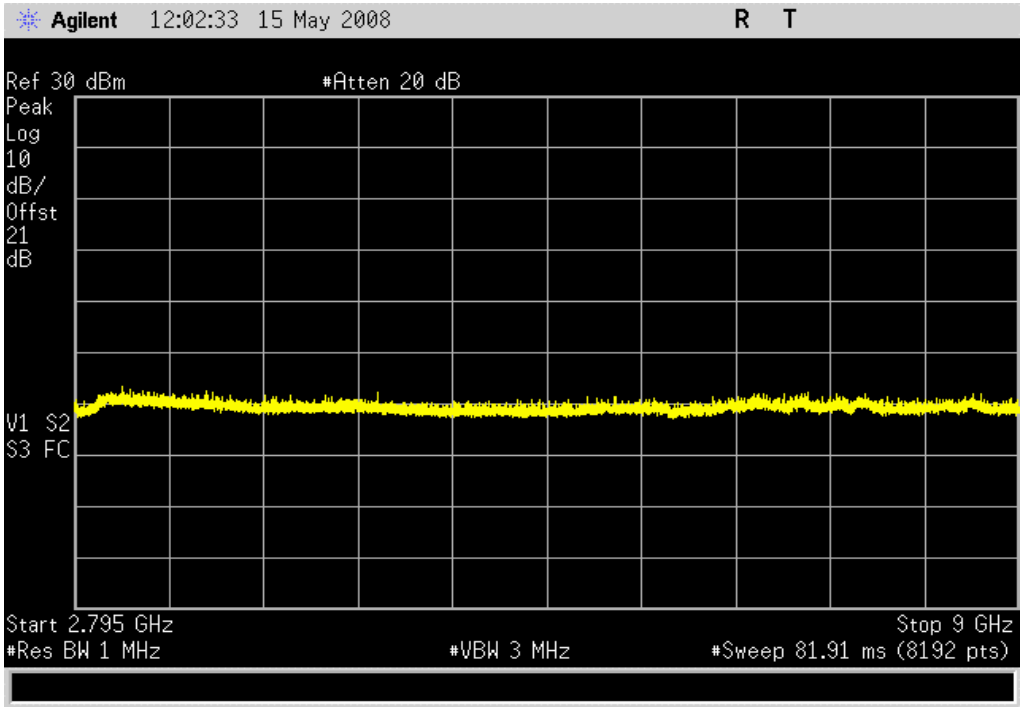
GPRS Modulation, Mid Channel, In Band					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



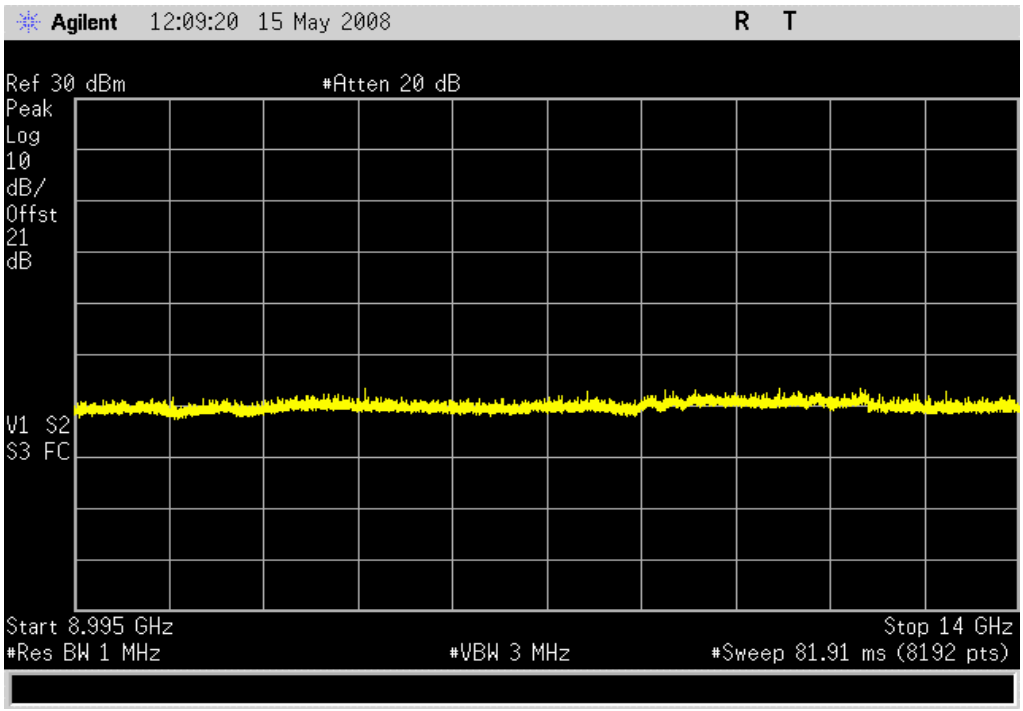
GPRS Modulation, Mid Channel, 0-2.8 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



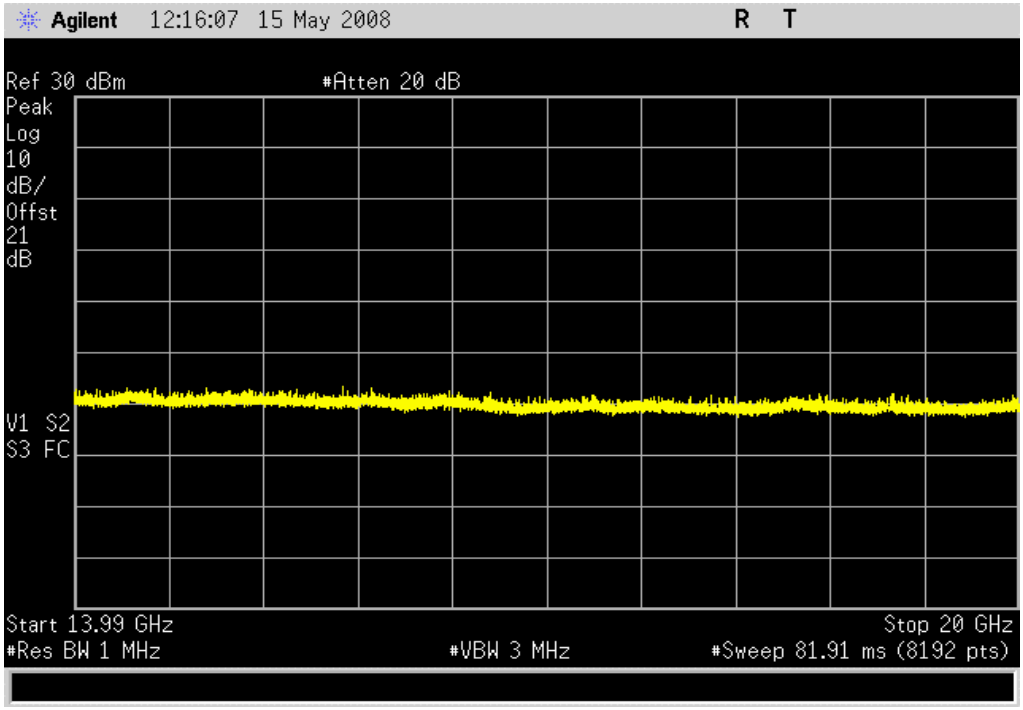
GPRS Modulation, Mid Channel, 2.795 GHz-9 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



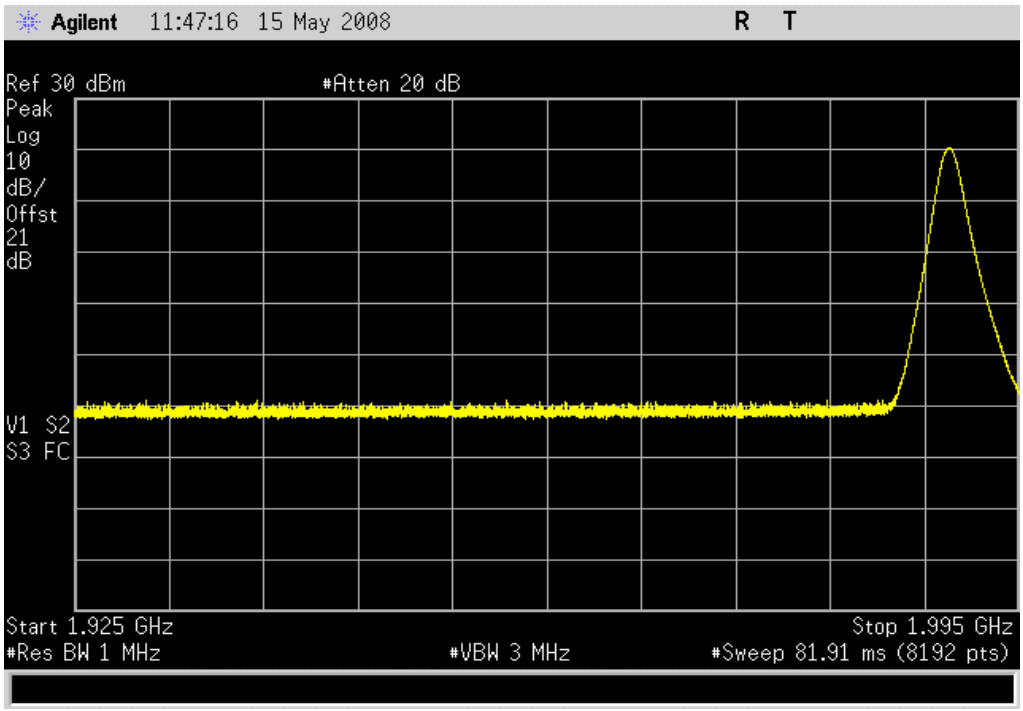
GPRS Modulation, Mid Channel, 8.995 GHz-14 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



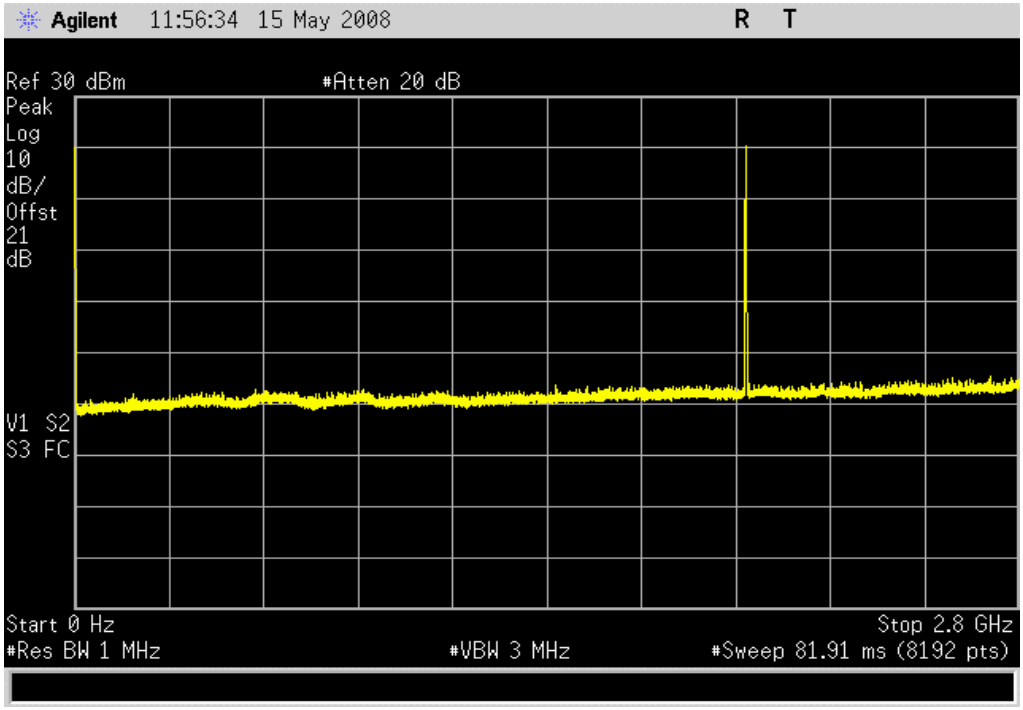
GPRS Modulation, Mid Channel, 13.995 GHz-20 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



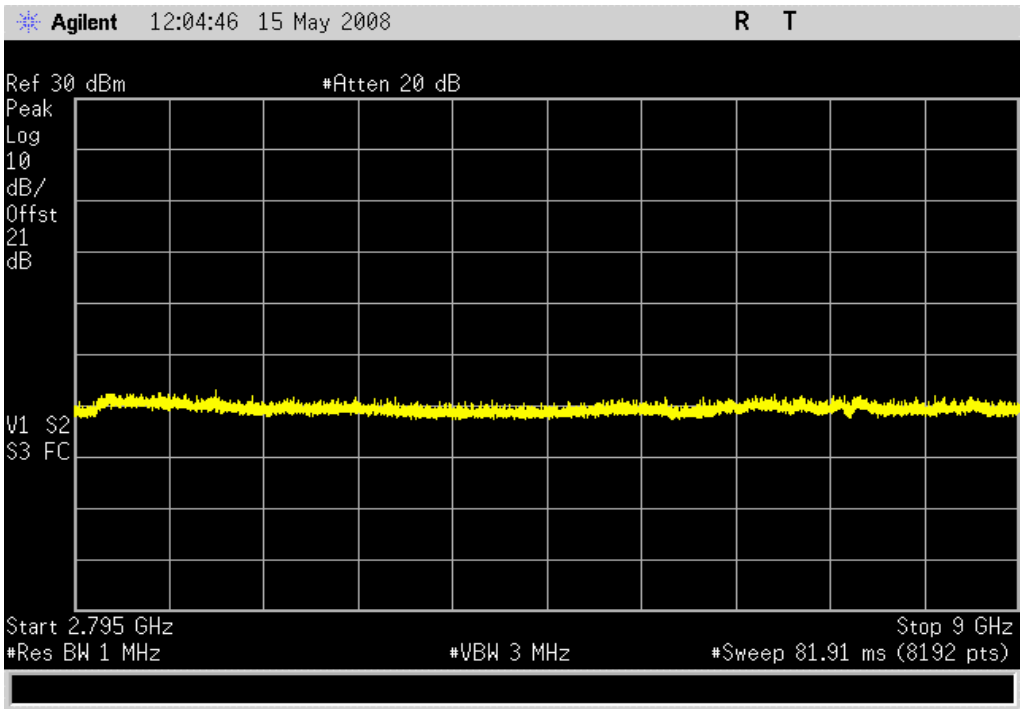
GPRS Modulation, High Channel, In Band					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



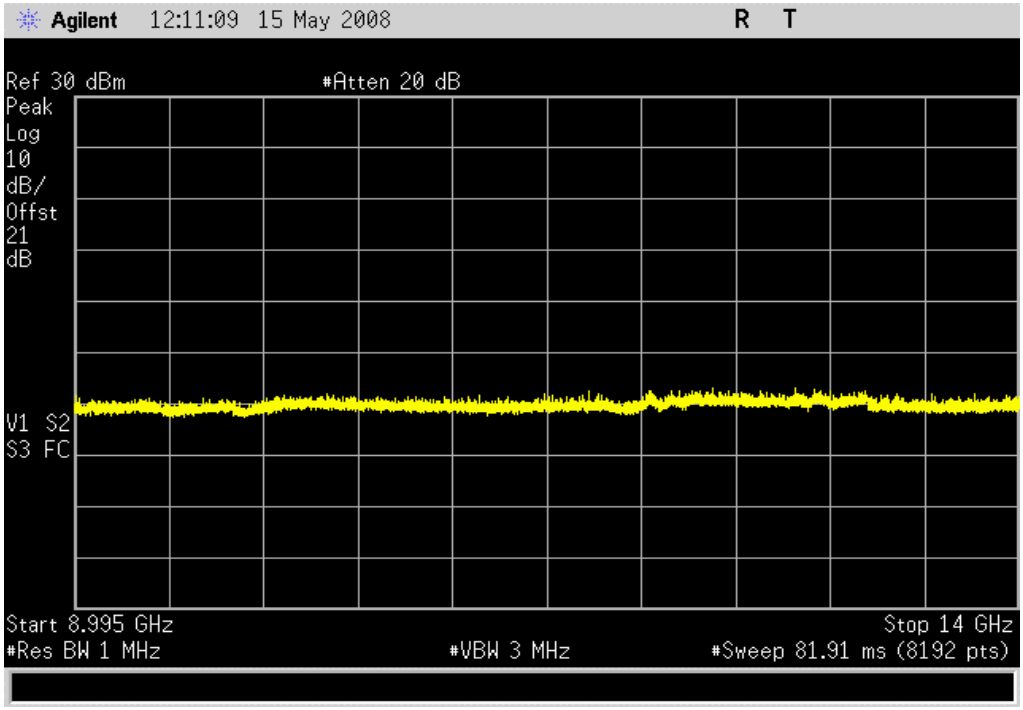
GPRS Modulation, High Channel, 0-2.8 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



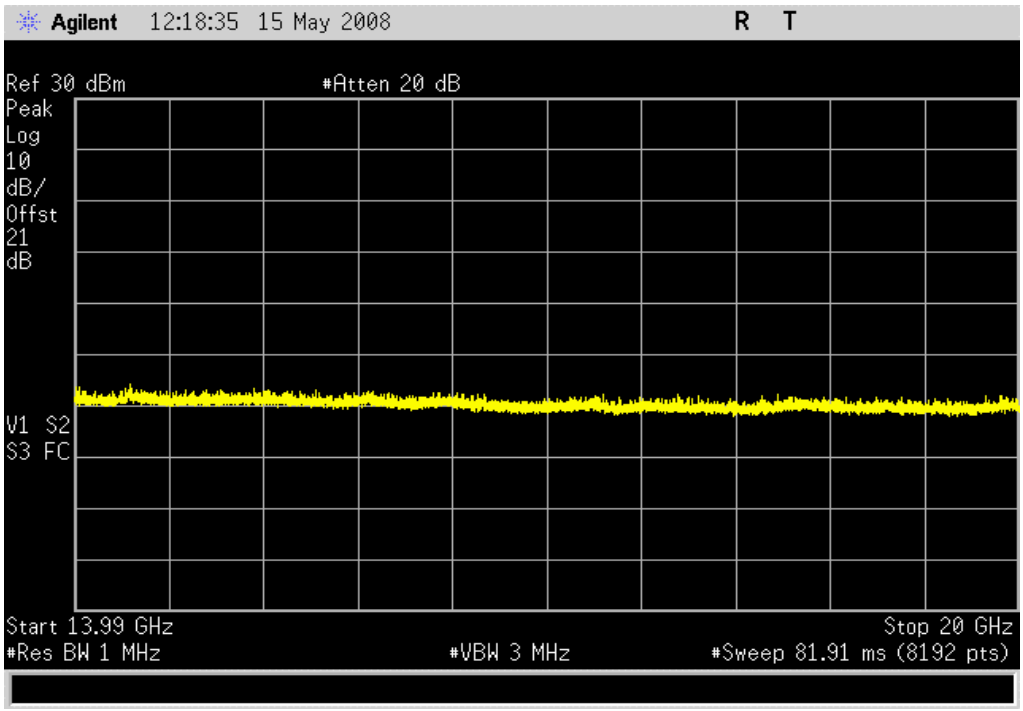
GPRS Modulation, High Channel, 2.795 GHz-9 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm

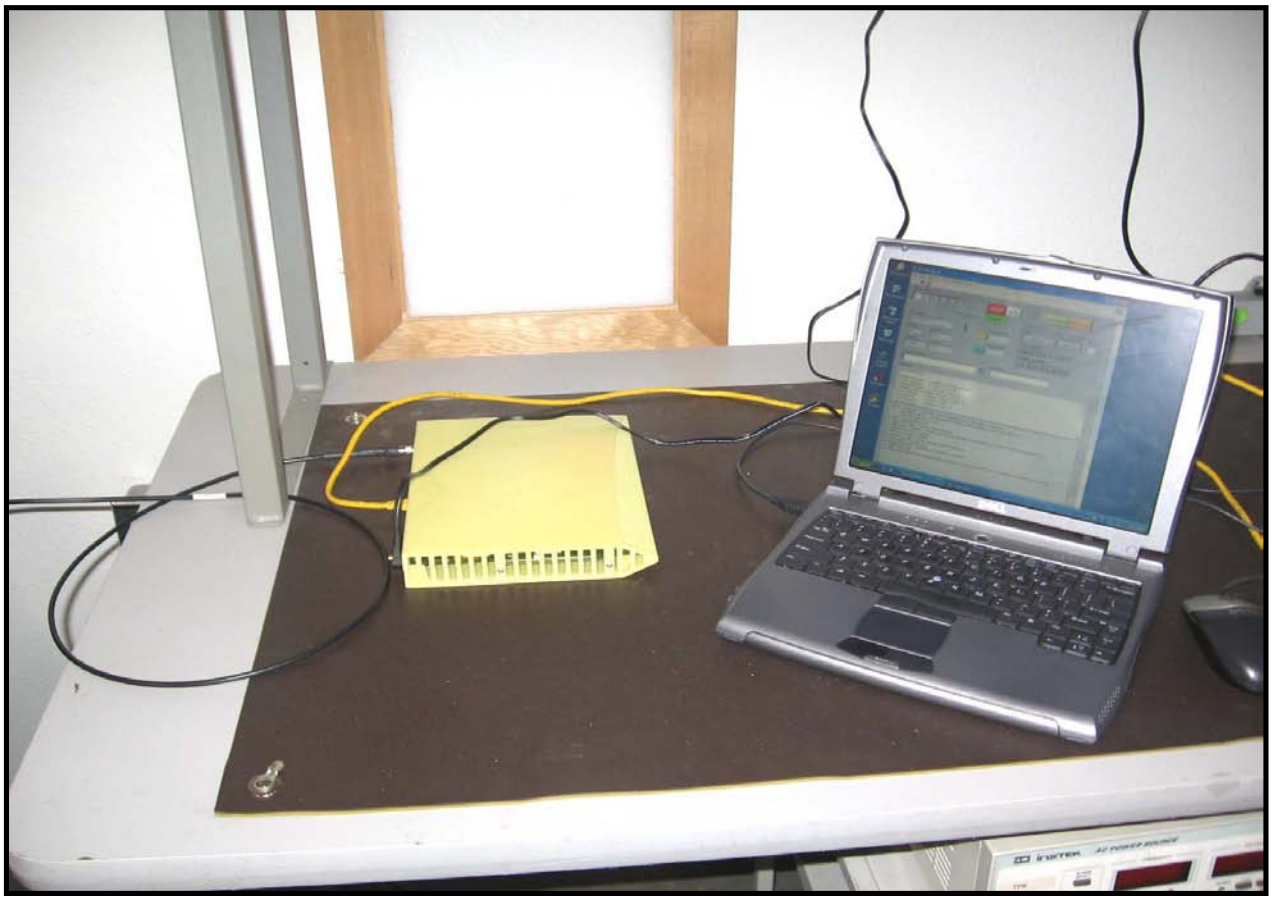


GPRS Modulation, High Channel, 8.995 GHz-14 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm



GPRS Modulation, High Channel, 13.995 GHz-20 GHz					
Result:	Pass	**Value:**	≤ - 25 dBm	**Limit:**	≤ -13 dBm





Receiver Conducted Spurious Emissions

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antenna power conducted emissions were measured with a direct connection between the Receive only RF port of the EUT and a spectrum analyzer. The spectrum was scanned throughout the specified frequency range.

NORTHWEST EMC

Receiver Conducted Spurious Emissions

XMit 2007.06.13

EUT:	OmniCell@Home			Work Order:	RAFN0085
Serial Number:	None			Date:	05/16/08
Customer:	Radioframe Networks, Inc.			Temperature:	24°C
Attendees:	None			Humidity:	39%
Project:	None			Barometric Pres.:	1017.6 mb
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV06

TEST SPECIFICATIONS	Test Method
FCC 15.111:2007	ANSI C63.4:2003

COMMENTS

None

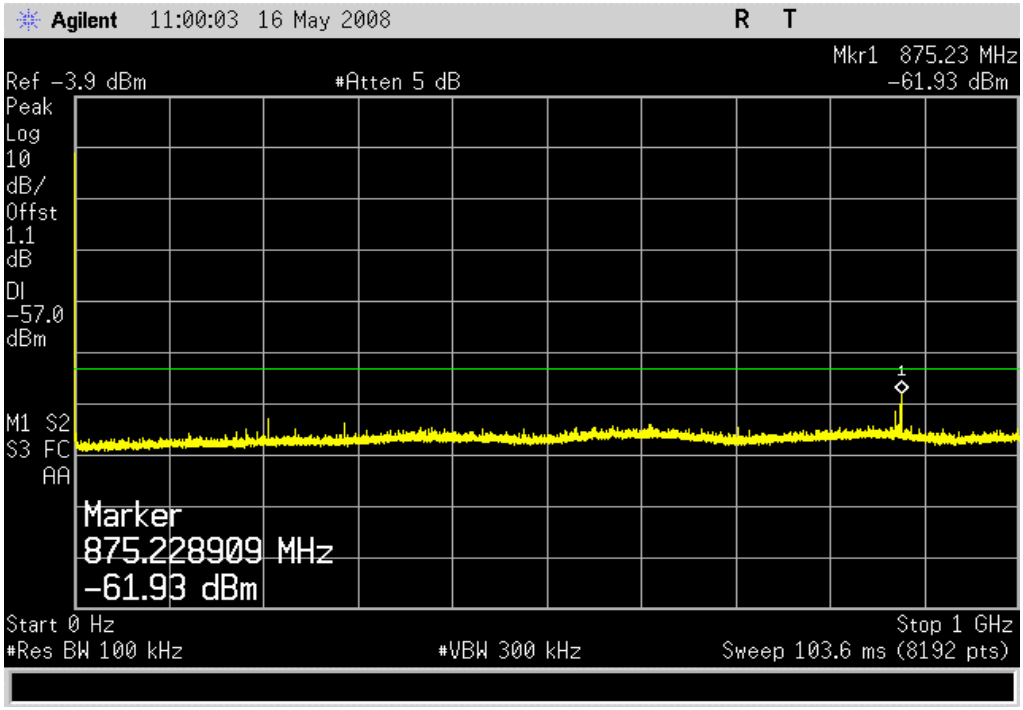
DEVIATIONS FROM TEST STANDARD

No Deviations

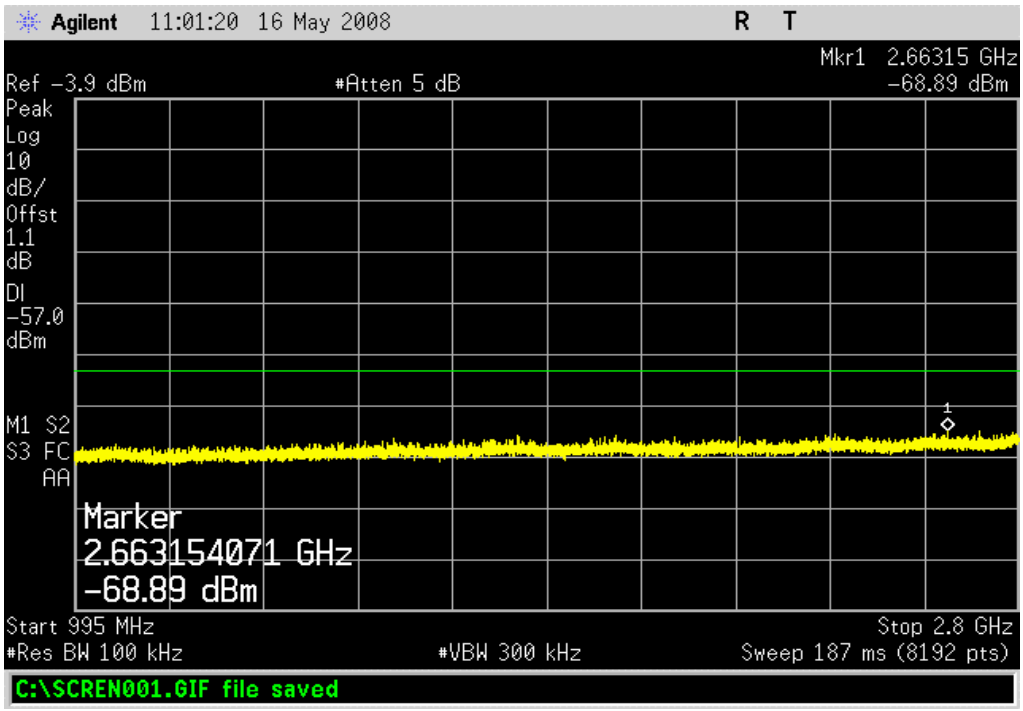
Configuration #	2	Signature

	Value	Limit	Results
Receive port, Low channel			
0 - 1 GHz	≤ -61 dBm	≤ - 57 dBm	Pass
995 MHz - 2.8 GHz	≤ -68 dBm	≤ - 57 dBm	Pass
2.795 GHz - 5 GHz	≤ -68 dBm	≤ - 57 dBm	Pass
Receive port, Mid channel			
0 - 1 GHz	≤ -63 dBm	≤ - 57 dBm	Pass
995 MHz - 2.8 GHz	≤ -68 dBm	≤ - 57 dBm	Pass
2.795 GHz - 5 GHz	≤ -69 dBm	≤ - 57 dBm	Pass
Receive port, High channel			
0 - 1 GHz	≤ -63 dBm	≤ - 57 dBm	Pass
995 MHz - 2.8 GHz	≤ -69 dBm	≤ - 57 dBm	Pass
2.795 GHz - 5 GHz	≤ -69 dBm	≤ - 57 dBm	Pass

Receive port, Low channel, 0 - 1 GHz					
Result:	Pass	**Value:**	≤ -61 dBm	**Limit:**	≤ - 57 dBm

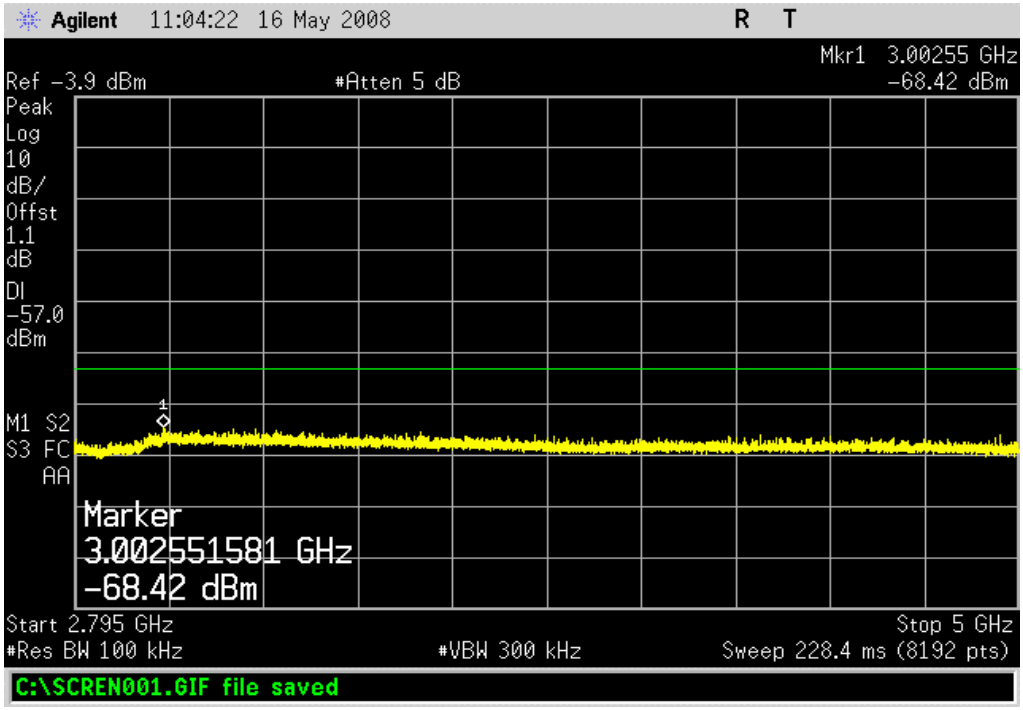


Receive port, Low channel, 995 MHz - 2.8 GHz					
Result:	Pass	**Value:**	≤ -68 dBm	**Limit:**	≤ - 57 dBm

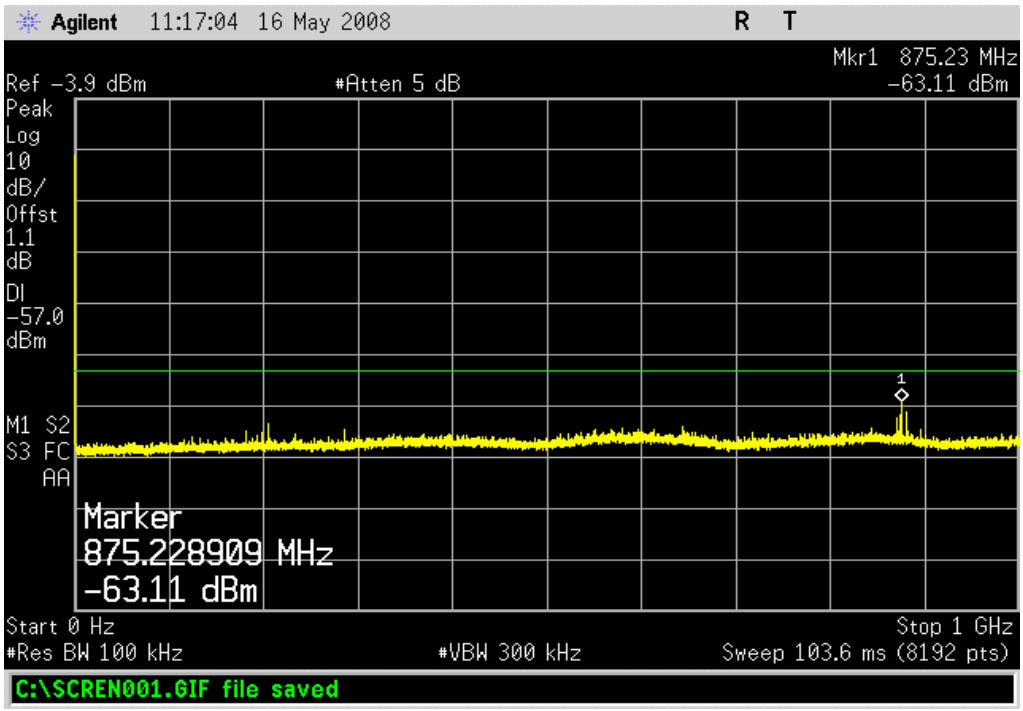


Receiver Conducted Spurious Emissions

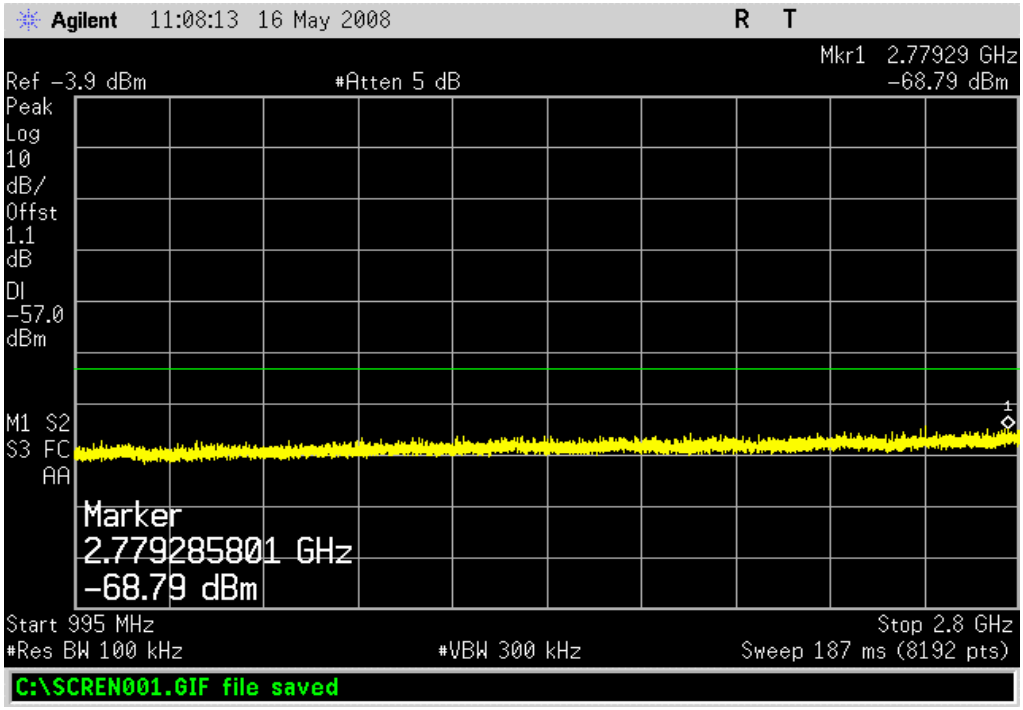
Receive port, Low channel, 2.795 GHz - 5 GHz					
Result:	Pass	**Value:**	≤ -68 dBm	**Limit:**	≤ - 57 dBm



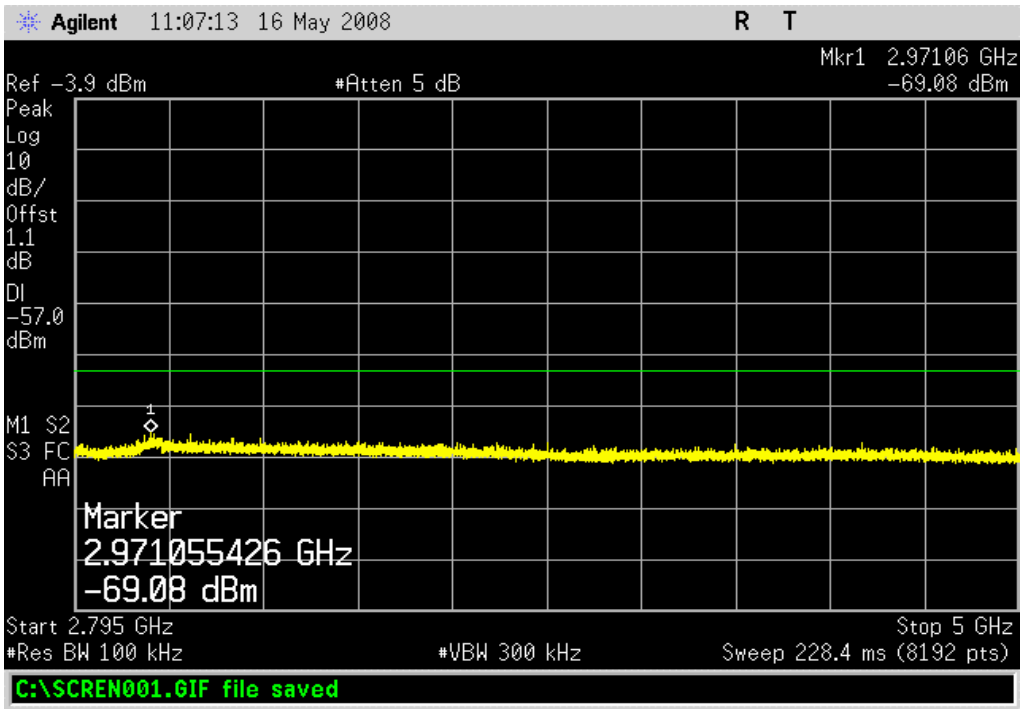
Receive port, Mid channel, 0 - 1 GHz					
Result:	Pass	**Value:**	≤ -63 dBm	**Limit:**	≤ - 57 dBm



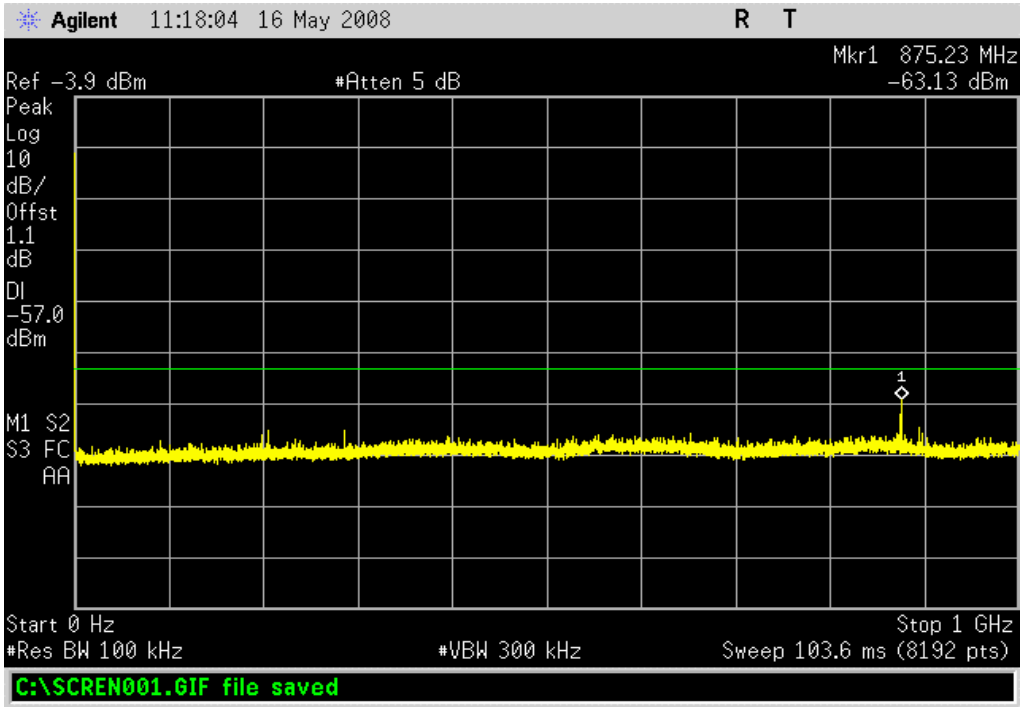
Receive port, Mid channel, 995 MHz - 2.8 GHz					
Result:	Pass	**Value:**	≤ -68 dBm	**Limit:**	≤ - 57 dBm



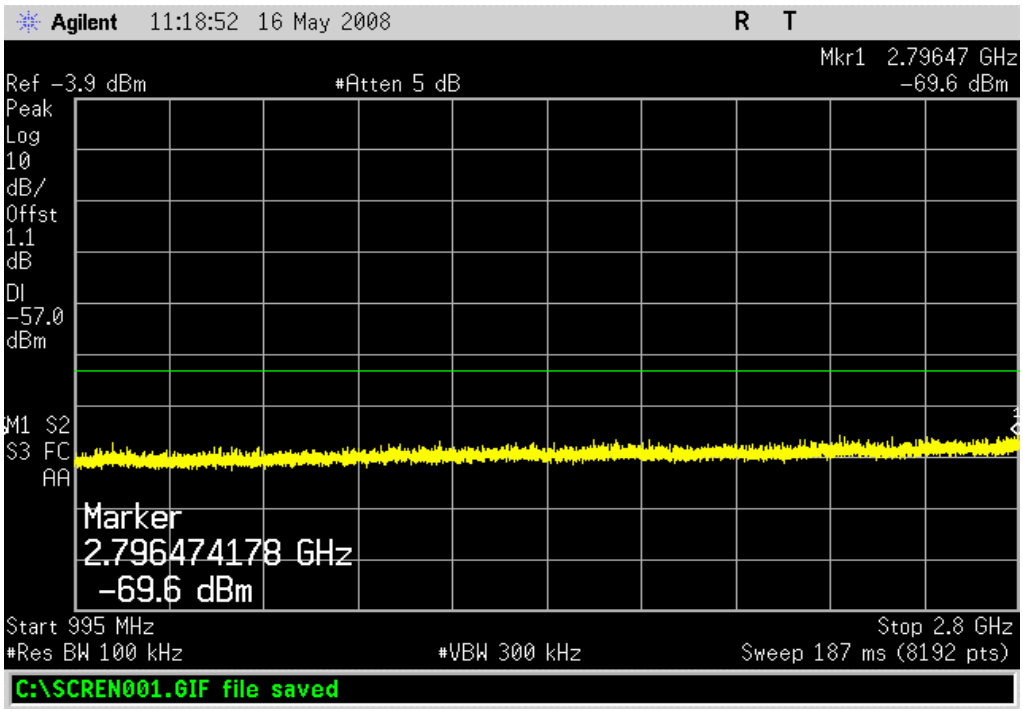
Receive port, Mid channel, 2.795 GHz - 5 GHz					
Result:	Pass	**Value:**	≤ -69 dBm	**Limit:**	≤ - 57 dBm



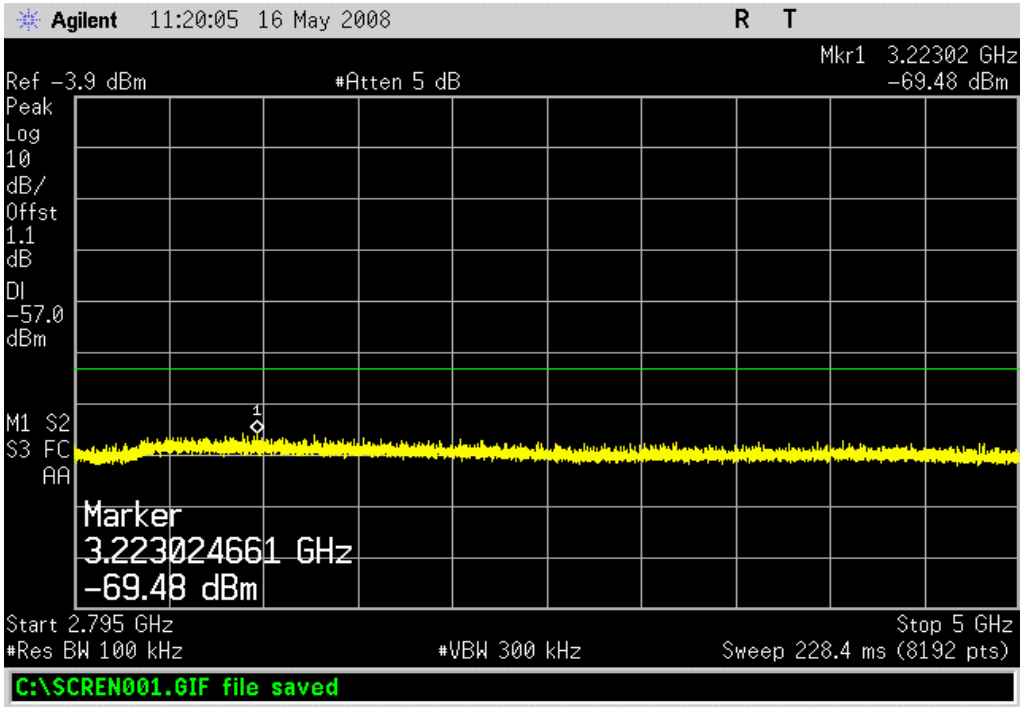
Receive port, High channel, 0 - 1 GHz					
Result:	Pass	**Value:**	≤ -63 dBm	**Limit:**	≤ - 57 dBm

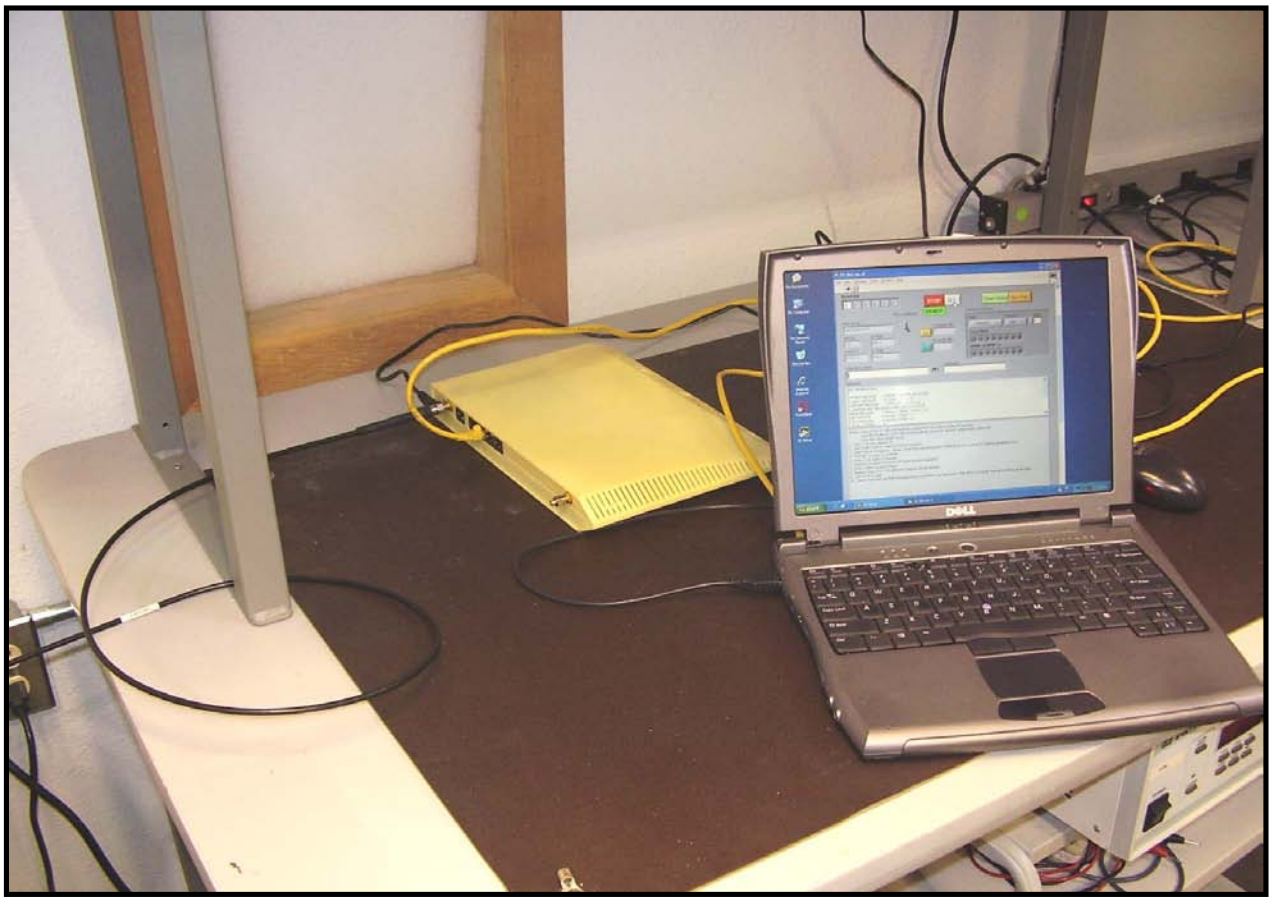


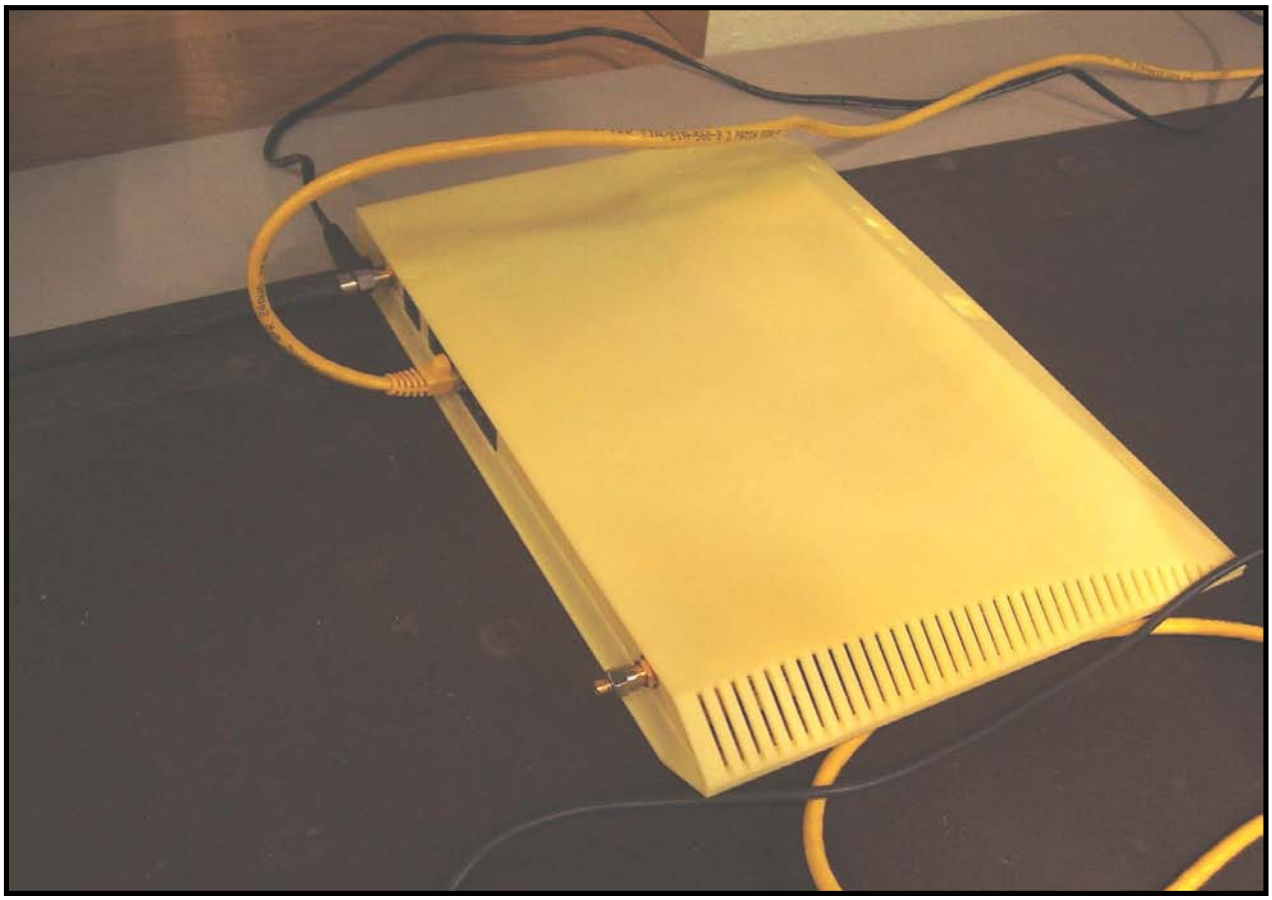
Receive port, High channel, 995 MHz - 2.8 GHz					
Result:	Pass	**Value:**	≤ -69 dBm	**Limit:**	≤ - 57 dBm



Receive port, High channel, 2.795 GHz - 5 GHz					
Result:	Pass	**Value:**	≤ -69 dBm	**Limit:**	≤ - 57 dBm







Effective Isotropic Radiated Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION
GSM
GPRS

CHANNELS INVESTIGATED
Low channel, 1930.2MHz
Mid Channel, 1960MHz
High Channel 1989.8MHz

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	1930MHz	Stop Frequency	1989.8MHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	ETS	3115	AIB	11/14/2007	12
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	6/17/2008	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	12
Antenna, Horn	ETS	3115	AHW	7/21/2008	24
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2007	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a horn antenna. A signal generator was connected to the horn antenna and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the dipole antenna and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

NORTHWEST EMC

Effective Isotropic Radiated Power

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	07/23/08
Customer:	Radioframe Networks, Inc.	Temperature:	23.39
Attendees:	None	Humidity:	34%
Project:	None	Barometric Pres.:	1023.5mb
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 24.232:2006	TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

None

EUT OPERATING MODES

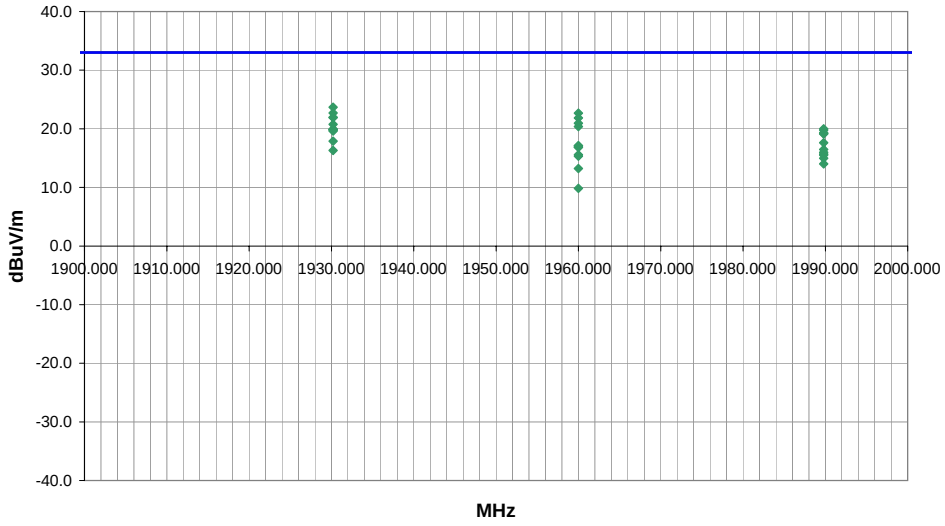
PCS band, maximum output power, see comments for mode and channel

DEVIATIONS FROM TEST STANDARD

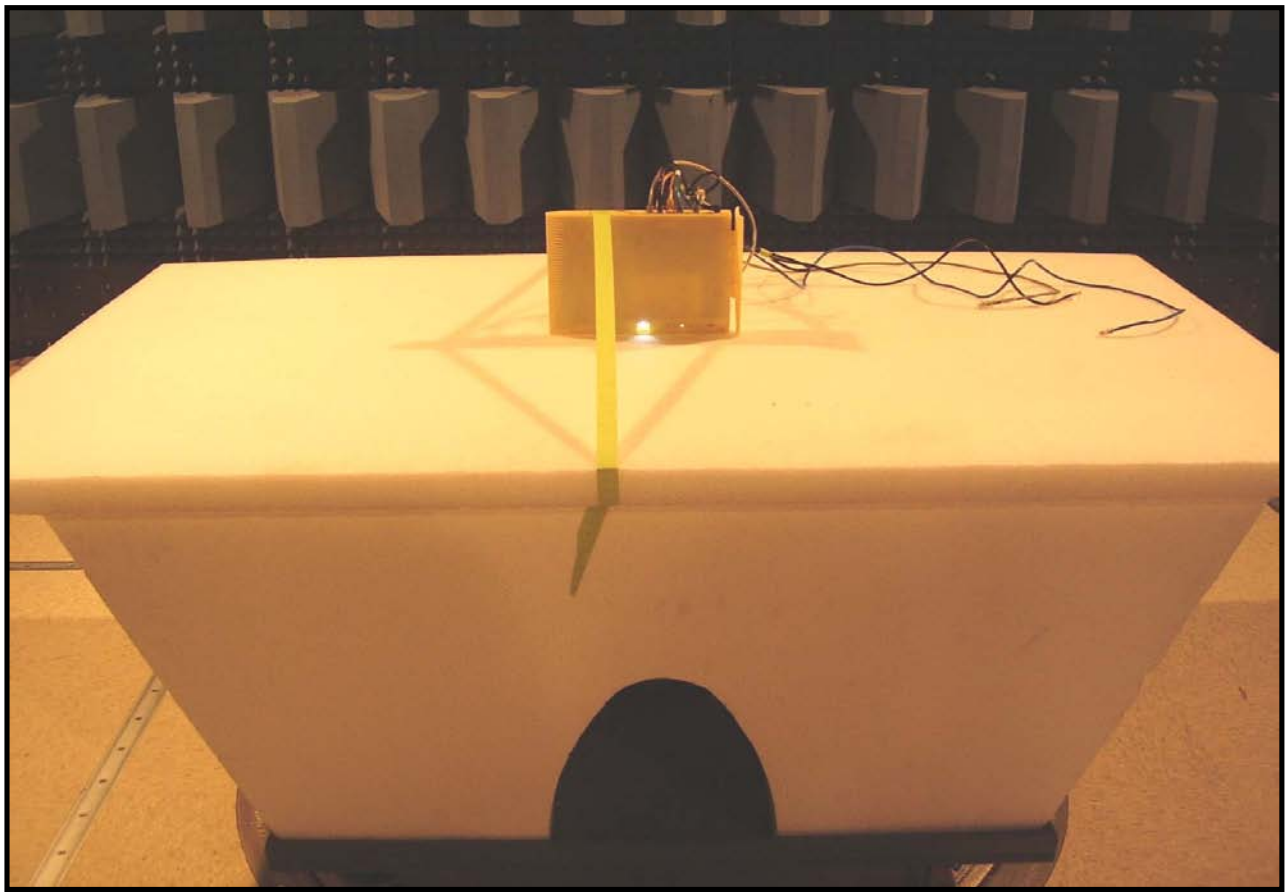
No deviations.

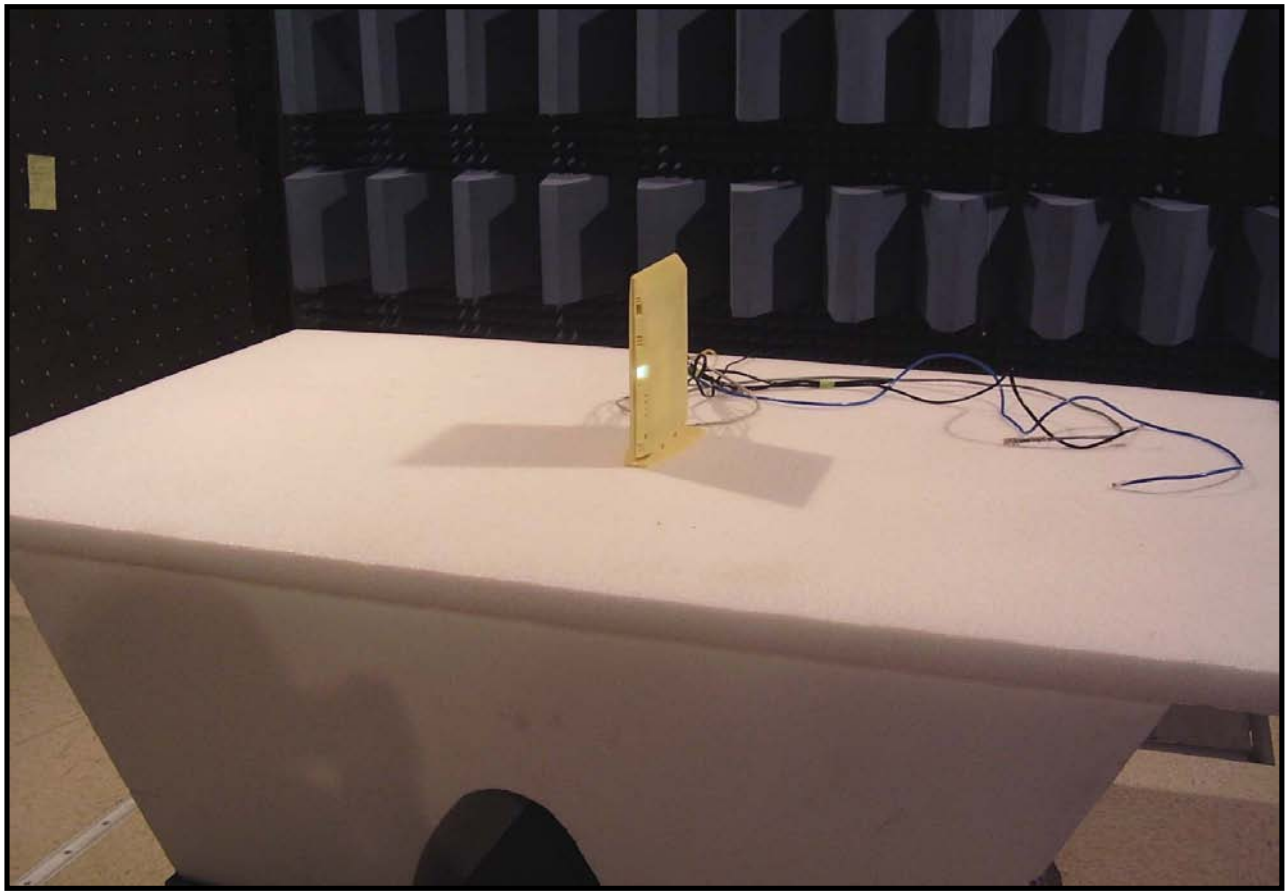
Run #	1
Configuration #	1
Results	Pass

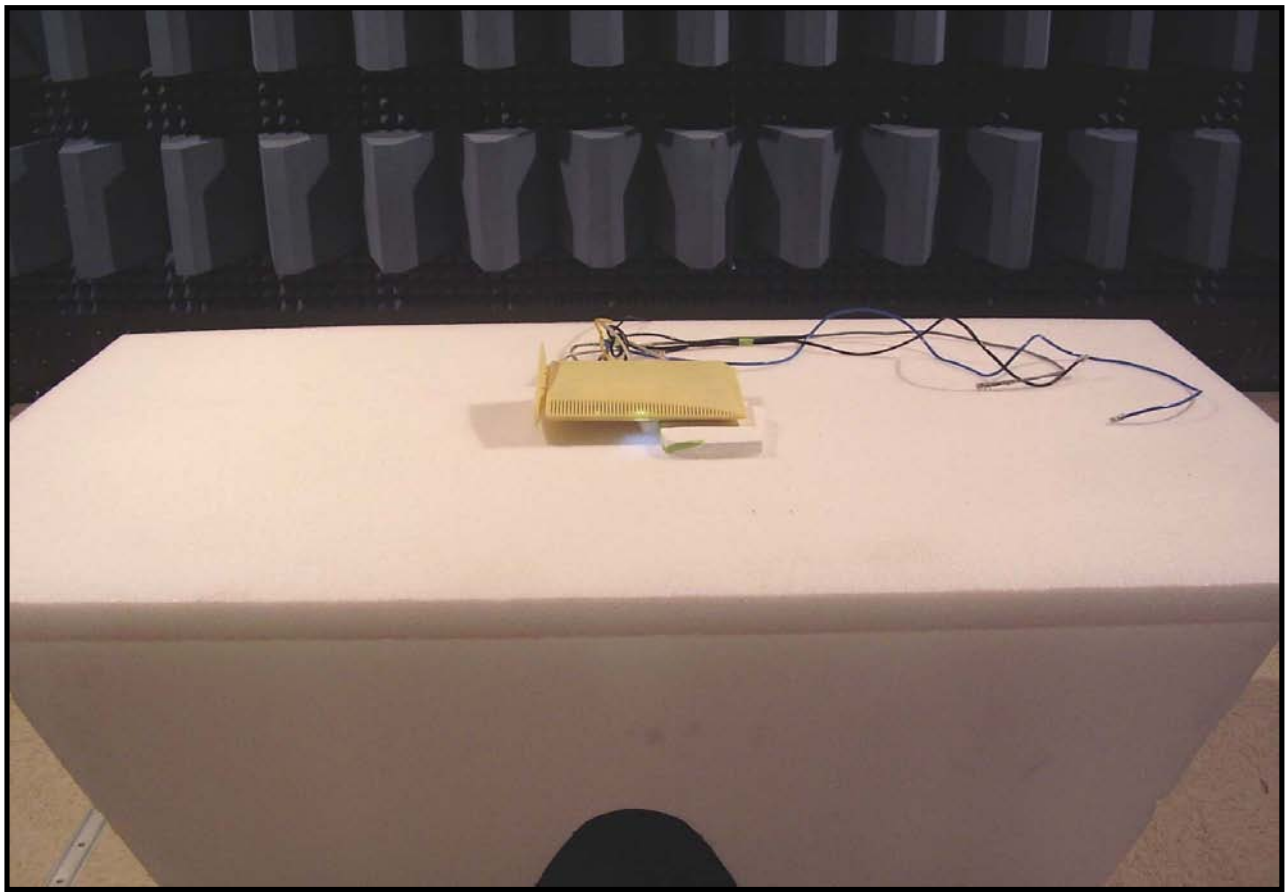
Signature

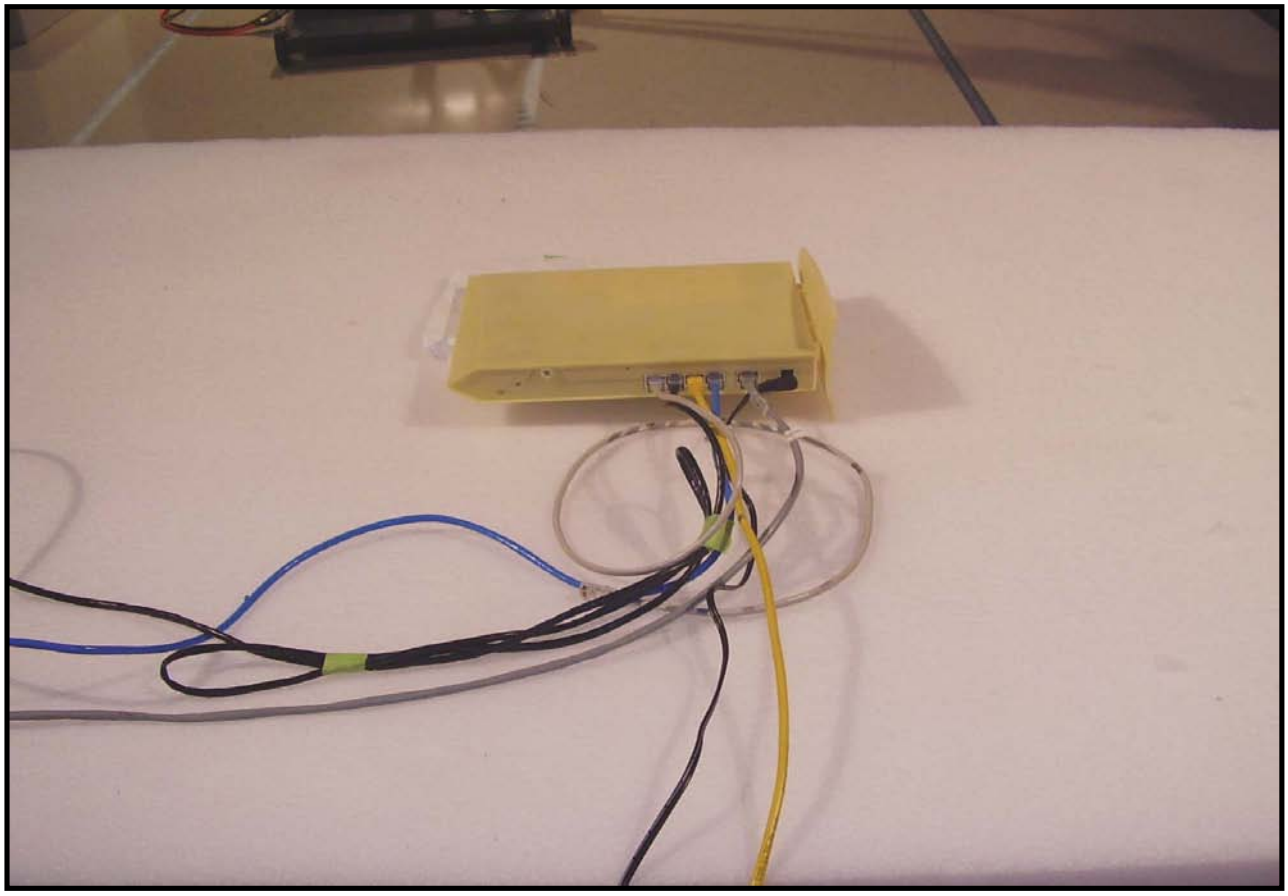


Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1930.200			167.0	1.5			V-Horn	PK	2.33E-01	23.7	33.0	-9.3	GPRS, Low channel, EUT on side
1930.200			54.0	1.5			H-Horn	PK	1.86E-01	22.7	33.0	-10.3	GPRS, Low channel, EUT horizontal
1960.000			152.0	1.4			V-Horn	PK	1.85E-01	22.7	33.0	-10.3	GPRS, Mid channel, EUT on side
1930.200			66.0	1.5			V-Horn	PK	1.57E-01	22.0	33.0	-11.0	GSM, Low channel, EUT on side
1930.200			48.0	1.5			H-Horn	PK	1.55E-01	21.9	33.0	-11.1	GPRS, Low channel, EUT vertical
1960.000			284.0	1.5			H-Horn	PK	1.53E-01	21.8	33.0	-11.2	GPRS, Mid channel, EUT vertical
1960.000			60.0	1.0			H-Horn	PK	1.24E-01	20.9	33.0	-12.1	GSM, Low channel, EUT vertical
1930.200			69.0	1.9			V-Horn	PK	1.19E-01	20.8	33.0	-12.2	GPRS, Low channel, EUT vertical
1960.000			60.0	1.0			V-Horn	PK	1.09E-01	20.4	33.0	-12.6	GSM, Low channel, EUT on side
1989.800			339.0	1.5			V-Horn	PK	9.96E-02	20.0	33.0	-13.0	GSM, High channel, EUT on side
1930.200			262.0	1.5			V-Horn	PK	9.93E-02	20.0	33.0	-13.0	GPRS, Low channel, EUT horizontal
1930.200			342.0	1.0			V-Horn	PK	9.70E-02	19.9	33.0	-13.1	GSM, Low channel, EUT horizontal
1930.200			271.0	1.0			V-Horn	PK	9.70E-02	19.9	33.0	-13.1	GSM, Low channel, EUT vertical
1930.200			291.0	1.2			H-Horn	PK	9.55E-02	19.8	33.0	-13.2	GSM, Low channel, EUT on side
1989.800			336.0	1.4			V-Horn	PK	9.51E-02	19.8	33.0	-13.2	GPRS, High channel, EUT on side
1930.200			208.0	1.5			H-Horn	PK	9.12E-02	19.6	33.0	-13.4	GPRS, Low channel, EUT on side
1989.800			278.0	1.4			H-Horn	PK	8.54E-02	19.3	33.0	-13.7	GPRS, High channel, EUT vertical
1989.800			86.0	1.5			H-Horn	PK	8.34E-02	19.2	33.0	-13.8	GSM, High channel, EUT vertical
1989.800			260.0	1.4			H-Horn	PK	8.15E-02	19.1	33.0	-13.9	GPRS, High channel, EUT horizontal
1930.200			360.0	1.2			H-Horn	PK	6.16E-02	17.9	33.0	-15.1	GSM, Low channel, EUT horizontal
1989.800			332.0	1.1			H-Horn	PK	5.77E-02	17.6	33.0	-15.4	GPRS, High channel, EUT on side
1960.000			275.0	1.5			H-Horn	PK	5.17E-02	17.1	33.0	-15.9	GPRS, Mid channel, EUT on side
1960.000			62.0	2.3			V-Horn	PK	5.09E-02	17.1	33.0	-15.9	GPRS, Mid channel, EUT vertical
1960.000			273.0	1.0			V-Horn	PK	4.86E-02	16.9	33.0	-16.1	GSM, Low channel, EUT vertical
1960.000			48.0	2.3			V-Horn	PK	4.86E-02	16.9	33.0	-16.1	GPRS, Mid channel, EUT horizontal
1989.800			264.0	2.3			V-Horn	PK	4.45E-02	16.5	33.0	-16.5	GSM, High channel, EUT horizontal
1930.200			243.0	1.5			H-Horn	PK	4.26E-02	16.3	33.0	-16.7	GSM, Low channel, EUT vertical
1989.800			254.0	1.5			V-Horn	PK	3.97E-02	16.0	33.0	-17.0	GSM, High channel, EUT vertical
1989.800			62.0	1.9			V-Horn	PK	3.70E-02	15.7	33.0	-17.3	GPRS, High channel, EUT vertical
1960.000			329.0	1.7			V-Horn	PK	3.60E-02	15.6	33.0	-17.4	GSM, Mid channel, EUT horizontal
1989.800			284.0	1.4			H-Horn	PK	3.56E-02	15.5	33.0	-17.5	GSM, High channel, EUT on side
1960.000			334.0	1.0			H-Horn	PK	3.42E-02	15.3	33.0	-17.7	GSM, Low channel, EUT on side
1989.800			57.0	1.9			V-Horn	PK	3.15E-02	15.0	33.0	-18.0	GPRS, High channel, EUT horizontal
1989.800			359.0	1.1			H-Horn	PK	2.52E-02	14.0	33.0	-19.0	GSM, High channel, EUT horizontal
1960.000			255.0	1.0			H-Horn	PK	2.11E-02	13.2	33.0	-19.8	GSM, Mid channel, EUT horizontal
1960.000			296.0	1.0			H-Horn	PK	9.63E-03	9.8	33.0	-23.2	GPRS, Mid channel, EUT horizontal









EFFECTIVE RADIATED POWER

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION
Cell band, GSM
Cell band, GPRS

CHANNELS TESTED
Low channel, 869.2 MHz
Mid channel, 881.4 MHz
High channel, 893.8 MHz

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	869 MHz	Stop Frequency	894 MHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
EV01 Cables		Bilog Cables	EVA	10/23/2007	13
Antenna, Dipole (part of ADA)	ETS	3121C-DB4	ADAA	NCR	0
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Signal Generator	Agilent	E8257D	TGX	12/7/2007	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The fundamental emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height (1-4 meters) and polarizationThe amplitude and frequency of the highest emission were noted. The EUT was then replaced with a ½ wave dipole that was successively tuned to the highest emission. A signal generator was connected to the dipole, and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded. The signal generator, amplifier, and cable were then connected to an analyzer and the power output was recorded. By factoring in the dipole antenna gain (dBi), the effective radiated power for the maximum fundamental emission was determined.

NORTHWEST EMC

Effective Radiated Power (ERP)

PSA 2007.07.21
EMI 2008.7.3

EUT:	OmniCell@Home			Work Order:	RAFN0085
Serial Number:	None			Date:	07/21/08
Customer:	Radioframe Networks, Inc.			Temperature:	21
Attendees:	None			Humidity:	29%
Project:	None			Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 22.913:2007	TIA/EIA-603-B:2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

None

EUT OPERATING MODES

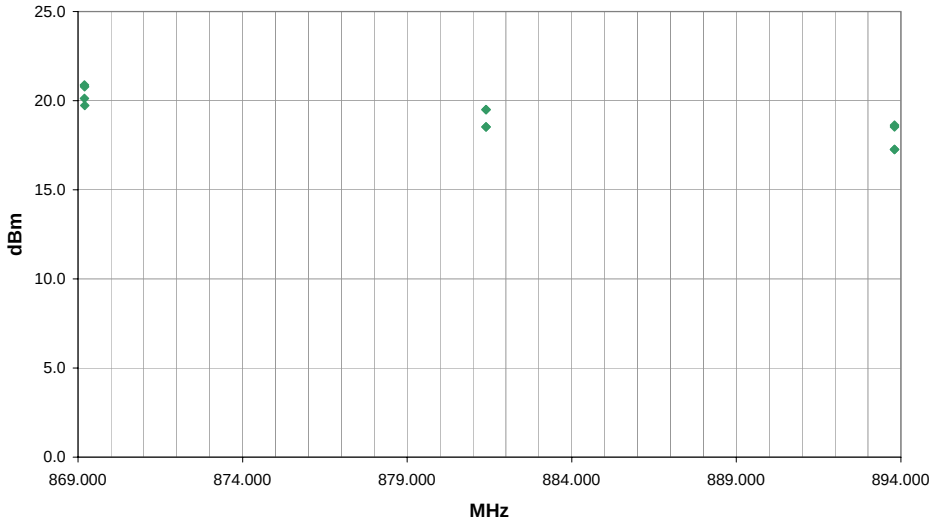
Cell band, maximum output power, see comments for mode and channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14
Configuration #	1
Results	Pass

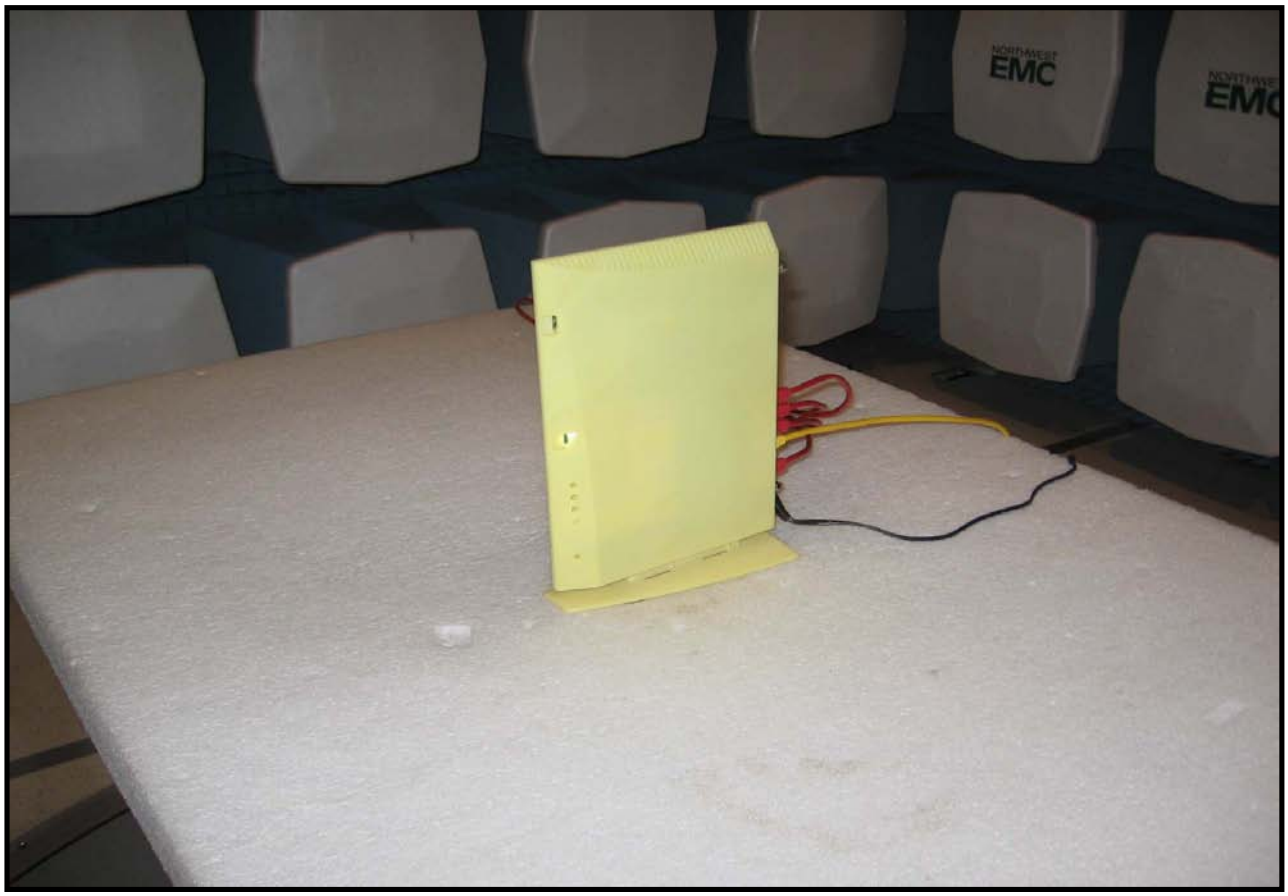
Signature

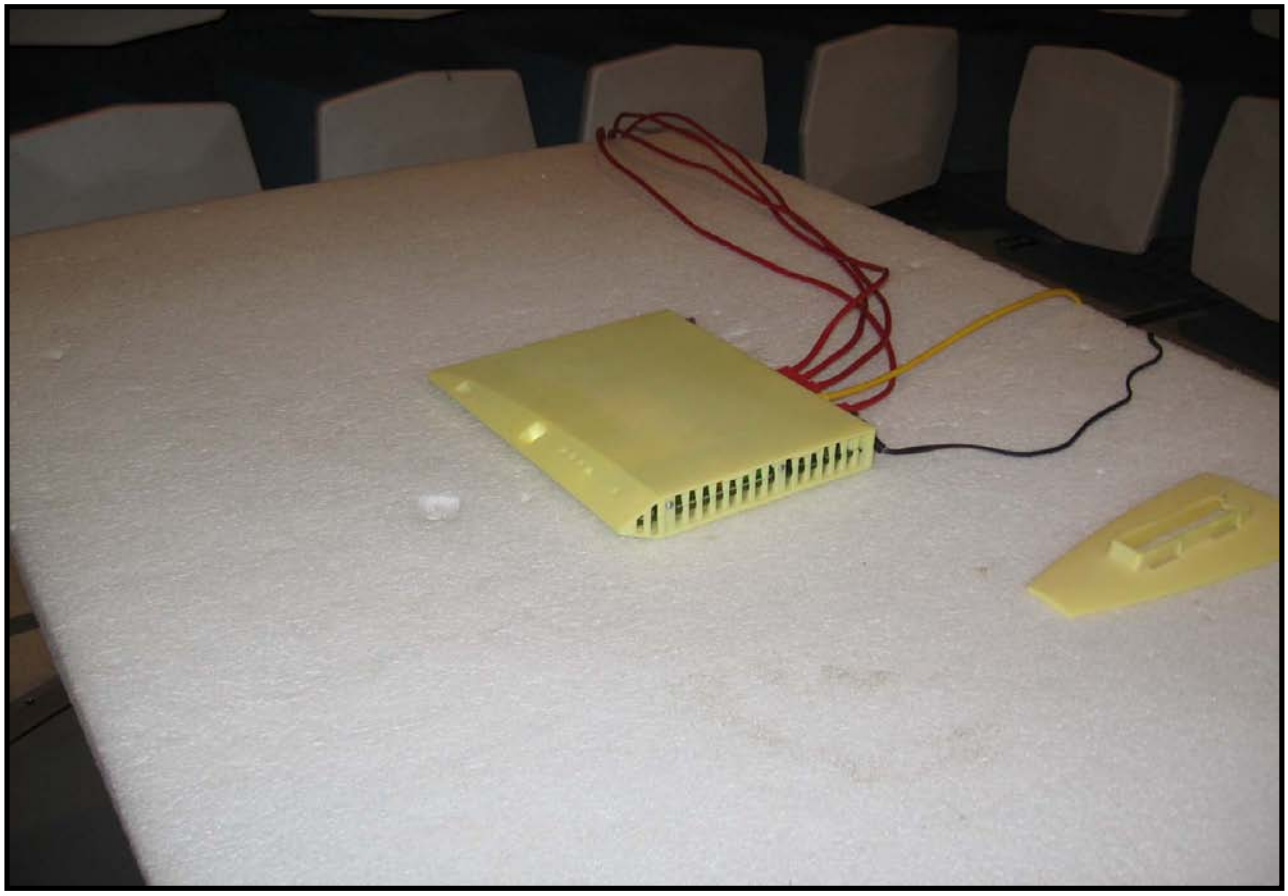


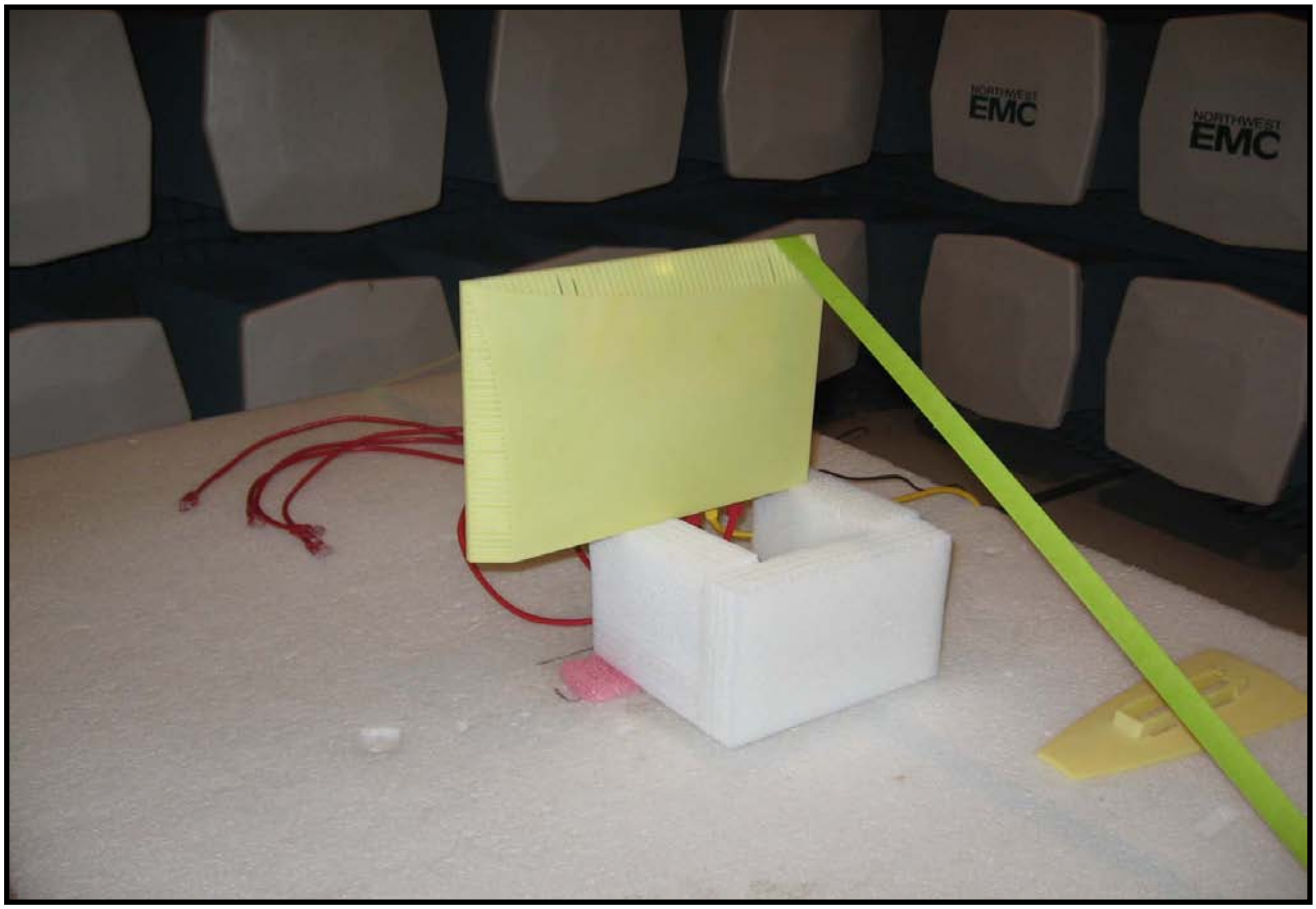
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	ERP (Watts)	ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
869.193			295.0	1.1			V-Bilog	PK	1.22E-01	20.9	38.5	-17.6	GPRS, Low Channel, EUT on side
869.198			298.0	1.1			V-Bilog	PK	1.20E-01	20.8	38.5	-17.7	GSM, Low Channel, EUT on side
869.196			63.0	1.0			H-Bilog	PK	1.03E-01	20.1	38.5	-18.4	GSM, Low Channel, EUT horizontal
869.202			67.0	1.0			H-Bilog	PK	9.40E-02	19.7	38.5	-18.8	GPRS, Low Channel, EUT horizontal
881.395			69.0	1.0			H-Bilog	PK	8.91E-02	19.5	38.5	-19.0	GSM, Mid Channel, EUT horizontal
881.395			65.0	1.0			H-Bilog	PK	8.91E-02	19.5	38.5	-19.0	GPRS, Mid Channel, EUT horizontal
893.806			67.0	1.0			H-Bilog	PK	7.29E-02	18.6	38.5	-19.9	GPRS, High Channel, EUT horizontal
893.805			66.0	1.0			H-Bilog	PK	7.13E-02	18.5	38.5	-20.0	GSM, High Channel, EUT horizontal
881.396			296.0	1.1			V-Bilog	PK	7.13E-02	18.5	38.5	-20.0	GSM, Mid Channel, EUT on side
881.398			296.0	1.1			V-Bilog	PK	7.13E-02	18.5	38.5	-20.0	GPRS, Mid Channel, EUT on side
893.804			332.0	1.1			V-Bilog	PK	5.32E-02	17.3	38.5	-21.2	GSM, High Channel, EUT on side
893.804			332.0	1.1			V-Bilog	PK	5.32E-02	17.3	38.5	-21.2	GPRS, High Channel, EUT on side


NORTHWEST EMC


NORTHWEST EMC


NORTHWEST
EMC

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Frequency Stability

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
AC Power Source	Instek	APS-9050	TPK	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Chamber, Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	8/7/2007	12

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied from 85% to 115% of nominal. The EUT can only be operated from the public AC mains, so an AC lab supply was used to vary the supply voltage from 115% to 85% of 120 V, 60 Hz.

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-20° to +50° C) and at 10°C intervals.

Measurements were made at the single transmit frequency using a direct connection between the EUT and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

NORTHWEST EMC

Frequency Stability

XMit 2007.06.13

EUT:	OmniCell@Home			Work Order:	RAFN0085
Serial Number:	None			Date:	05/15/08
Customer:	Radioframe Networks, Inc.			Temperature:	25°C
Attendees:	Nha Tran			Humidity:	40%
Project:	None			Barometric Pres.:	1025 mb
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz nominal	Job Site:	EV06

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

Cellular Band, Maximum output power, Mid channel

DEVIATIONS FROM TEST STANDARD

No Deviations

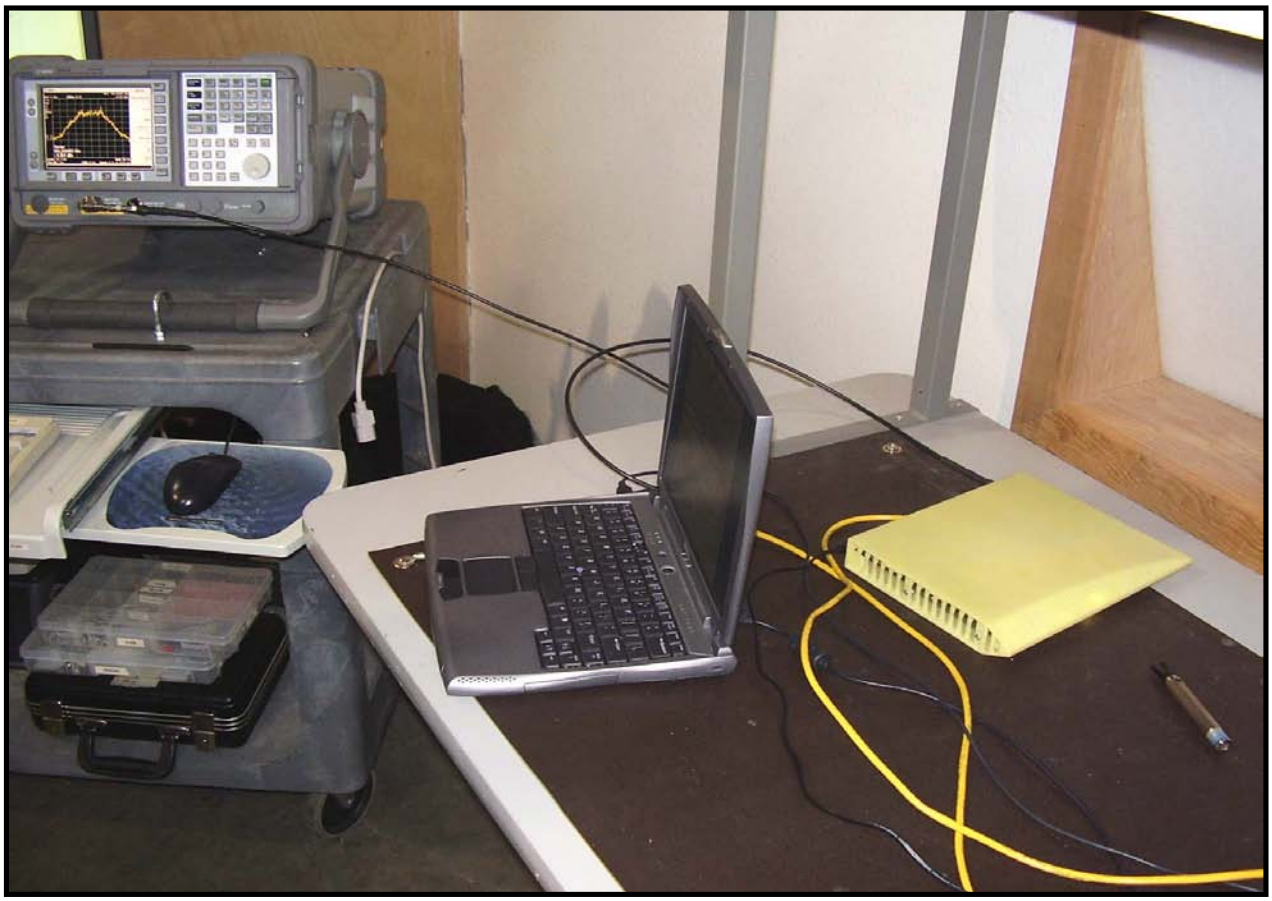
Configuration #	2	Signature Holly Ashkannejhad

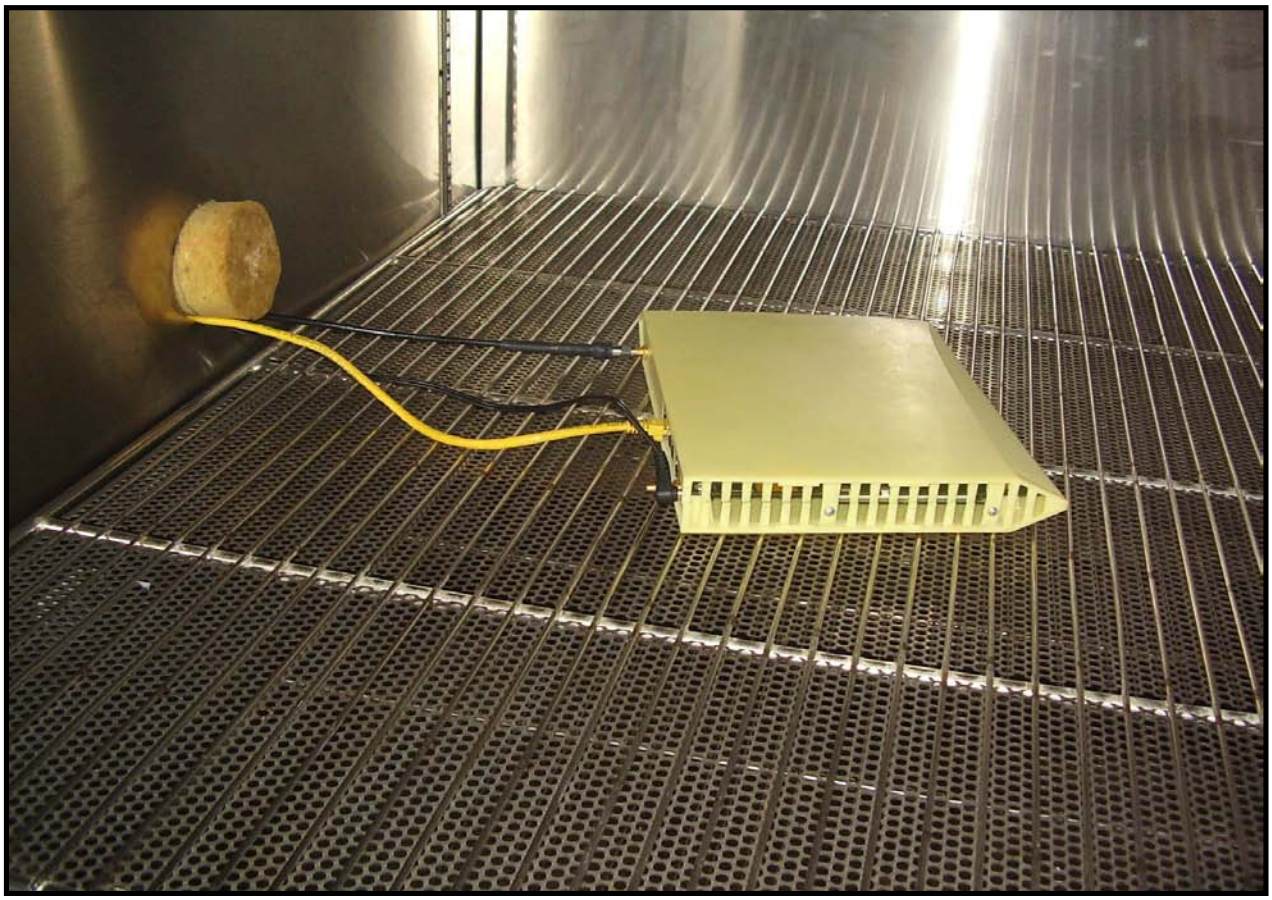
Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120VAC, 60 Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
50	881.40000	881.400790	0.90	1
40	881.40000	881.400760	0.86	1
30	881.40000	881.399470	0.60	1
20	881.40000	881.400580	0.66	1
10	881.40000	881.400150	0.17	1
0	881.40000	881.400370	0.42	1
-10	881.40000	881.400760	0.86	1
-20	881.40000	881.400790	0.90	1
-30	881.40000	881.400820	0.93	1

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 20°C)

Voltage (VAC, 60 Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	881.40000	881.400670	0.76	1
132 (110%)	881.40000	881.400780	0.88	1
126 (105%)	881.40000	881.400390	0.44	1
120 (100%)	881.40000	881.400840	0.95	1
114 (95%)	881.40000	881.399470	0.60	1
108 (90%)	881.40000	881.400780	0.88	1
102 (85%)	881.40000	881.400830	0.94	1





Frequency Stability

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
AC Power Source	Instek	APS-9050	TPK	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Chamber, Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	8/7/2007	12

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied from 85% to 115% of nominal. The EUT can only be operated from the public AC mains, so an AC lab supply was used to vary the supply voltage from 115% to 85% of 120 V, 60 Hz.

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-20° to +50° C) and at 10°C intervals.

Measurements were made at the single transmit frequency using a direct connection between the EUT and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

NORTHWEST EMC

Frequency Stability

XMit 2007.06.13

EUT:	OmniCell@Home			Work Order:	RAFN0085
Serial Number:	None			Date:	05/15/08
Customer:	Radioframe Networks, Inc.			Temperature:	25°C
Attendees:	Nha Tran			Humidity:	40%
Project:	None			Barometric Pres.:	1025 mb
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz nominal	Job Site:	EV06

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

PCS Band, Maximum Output Power, Mid channel

DEVIATIONS FROM TEST STANDARD

No deviations

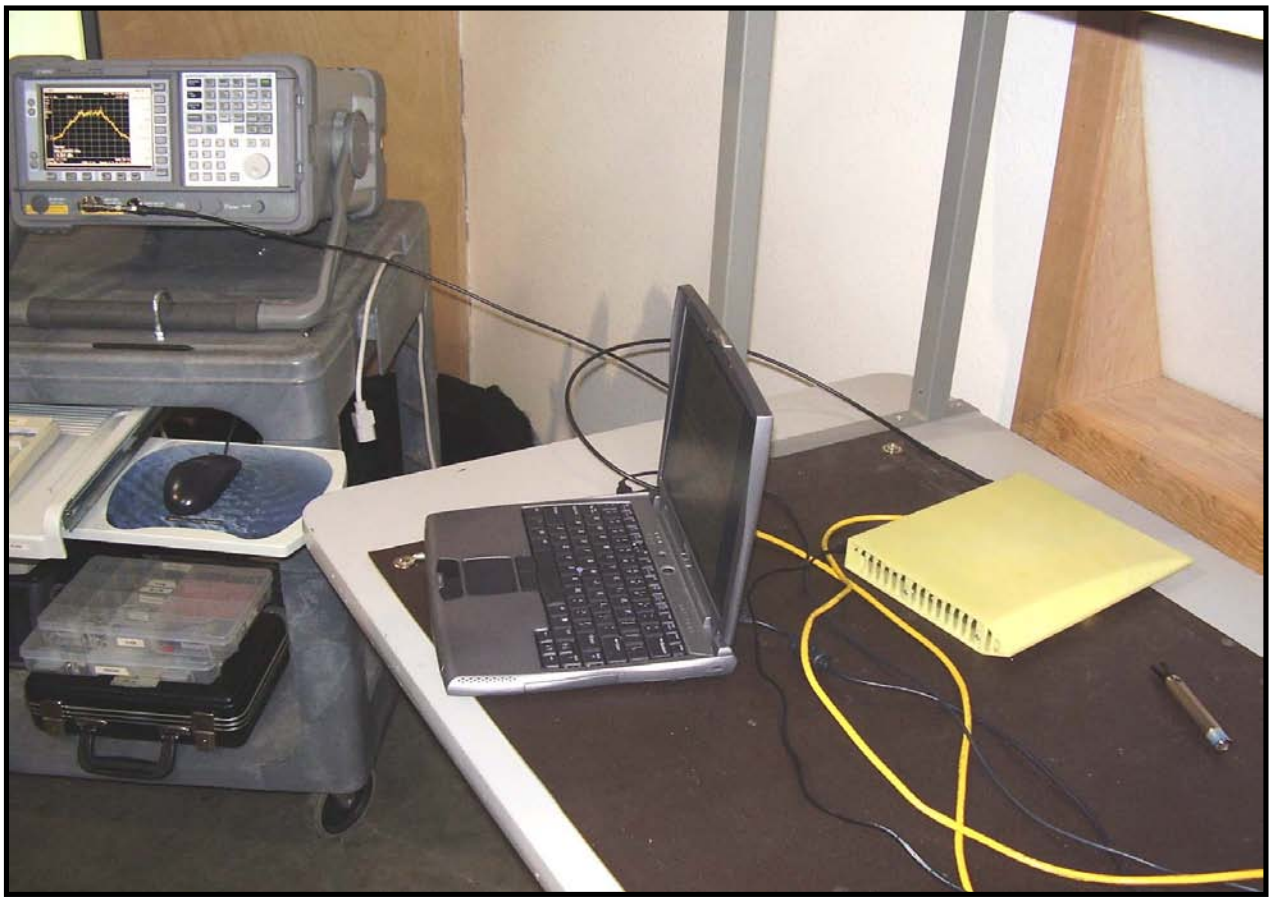
Configuration #	2	Signature Holly Ashkannejhad

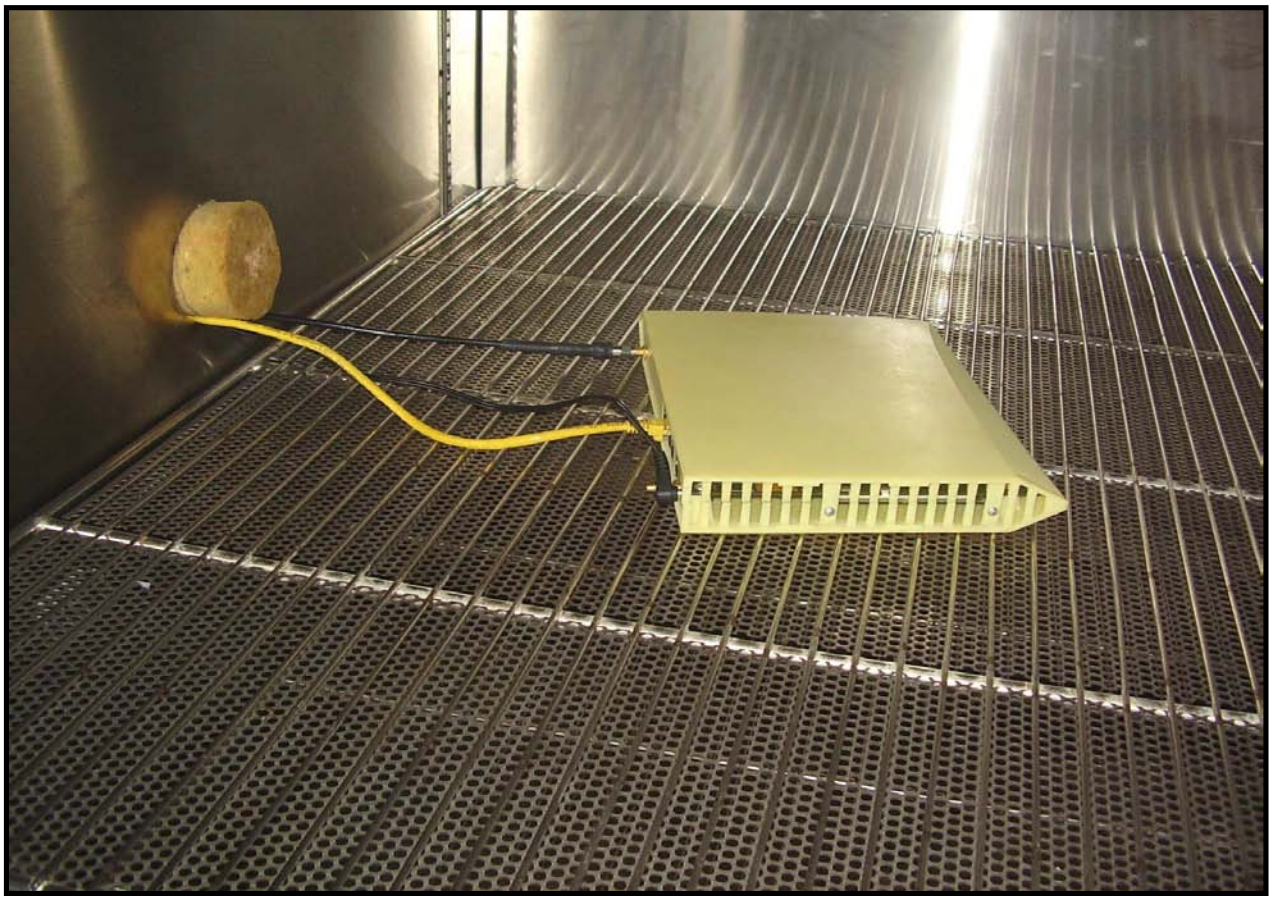
Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120VAC, 60 Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
50	1960.00000	1960.000900	0.46	1
40	1960.00000	1960.000760	0.39	1
30	1960.00000	1960.000880	0.45	1
20	1960.00000	1960.000300	0.15	1
10	1960.00000	1960.000980	0.50	1
0	1960.00000	1960.000430	0.22	1
-10	1960.00000	1960.000850	0.43	1
-20	1960.00000	1960.000730	0.37	1
-30	1960.00000	1960.000700	0.36	1

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 20°C)

Voltage (VAC, 60 Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	1960.00000	1960.000920	0.47	1
132 (110%)	1960.00000	1960.000870	0.44	1
126 (105%)	1960.00000	1960.000450	0.23	1
120 (100%)	1960.00000	1960.000910	0.46	1
114 (95%)	1960.00000	1960.000730	0.37	1
108 (90%)	1960.00000	1960.000580	0.30	1
102 (85%)	1960.00000	1959.999050	0.48	1





Occupied Bandwidth

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2007	13
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The 99% bandwidth was measured utilizing the analyzer's peak detector and measuring the carrier's 26 dB occupied bandwidth based on the peak output power level measured. A plot was taken to show the occupied bandwidth is contained within the allowable transmit band.

A direct connection was made between the EUT and a spectrum analyzer. At 3 kHz the spectrum analyzer's resolution bandwidth was sufficiently narrow to plot the actual bandwidth of the signal and not the filter response curve of the spectrum analyzer. The resolution bandwidth was approximately equal to 1% of the 20dB bandwidth and the video bandwidth was greater than or equal to the resolution bandwidth.

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

NORTHWEST EMC

Occupied Bandwidth

XMit 2007.06.13

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	5/14/2008 & 7-22-08
Customer:	Radioframe Networks, Inc.	Temperature:	25°C
Attendees:	Nha Tran	Humidity:	35%
Project:	None	Barometric Pres.:	1030.8 mB
Tested by:	Holly Ashkannejhad & Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

Cellular Band

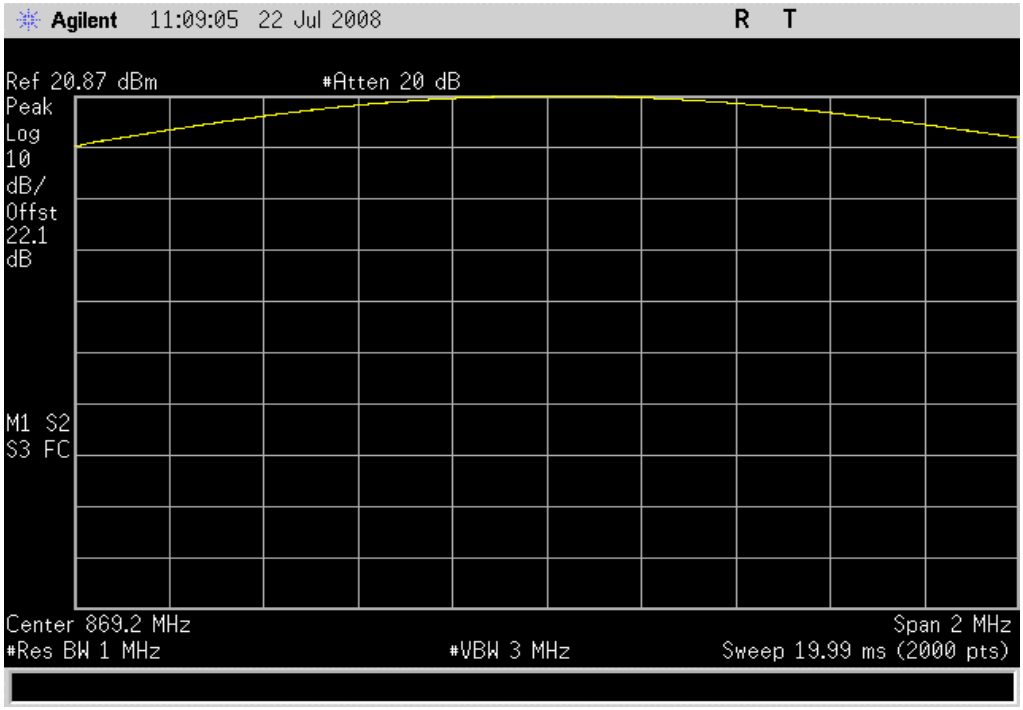
DEVIATIONS FROM TEST STANDARD

No deviations

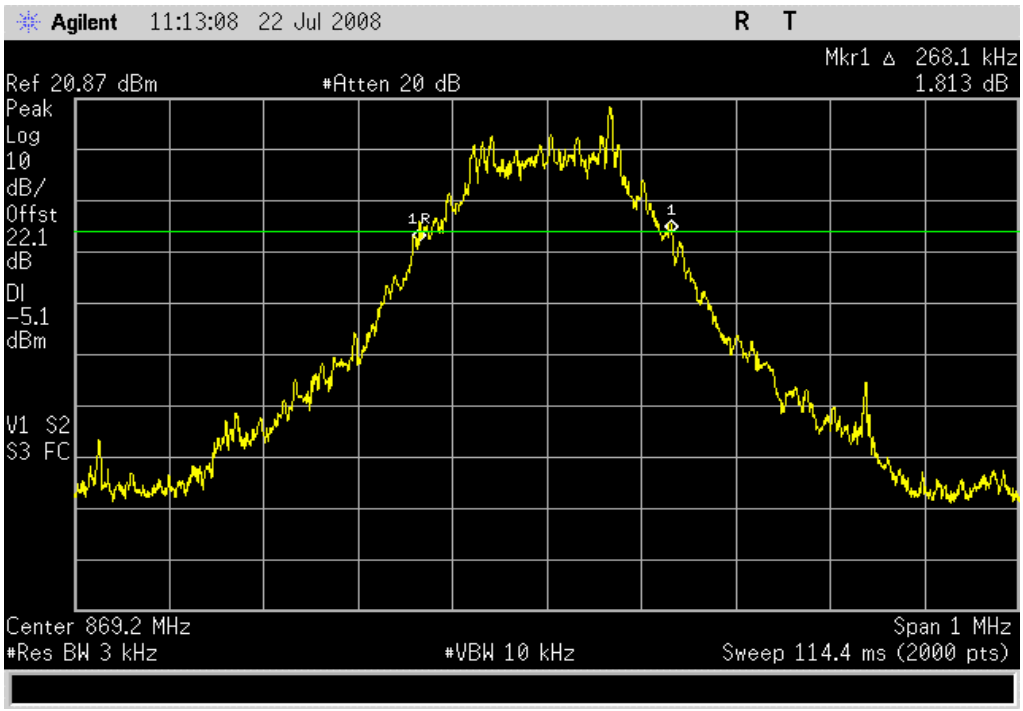
Configuration #	2	Signature

			Value	Limit	Results
GSM modulation					
	High power, Atten = 0				
		Low channel, 869.2MHz			
		Reference Level Plot	20.87 dBm	N/A	N/A
		Occupied Bandwidth	268.1 kHz	N/A	N/A
		Band Edge	-24.8 dBm	≤ - 13 dBm	Pass
		Mid channel, 881.4MHz			
		Reference Level Plot	20.11 dBm	N/A	N/A
		Occupied Bandwidth	262.6 kHz	N/A	N/A
		High channel, 893.8MHz			
		Reference Level Plot	20.24 dBm	N/A	N/A
		Occupied Bandwidth	263.6 kHz	N/A	N/A
		Band Edge	-26.4 dBm	≤ - 13 dBm	Pass
	Mid power, Atten = 3				
		Low channel, 869.2MHz			
		Reference Level Plot	12.7 dBm	N/A	N/A
		Occupied Bandwidth	263.6 kHz	N/A	N/A
		Band Edge	-37.38 dBm	≤ - 13 dBm	Pass
		Mid channel, 881.4MHz			
		Reference Level Plot	12.5 dBm	N/A	N/A
		Occupied Bandwidth	263.8 kHz	N/A	N/A
		High channel, 893.8MHz			
		Reference Level Plot	12.5 dBm	N/A	N/A
		Occupied Bandwidth	263.6 kHz	N/A	N/A
		Band Edge	-33.5 dBm	≤ - 13 dBm	Pass
	Low power, Atten = 6				
		Low channel, 869.2MHz			
		Reference Level Plot	6.5 dBm	N/A	N/A
		Occupied Bandwidth	264.132 kHz	N/A	N/A
		Band Edge	-41.19 dBm	≤ - 13 dBm	Pass
		Mid channel, 881.4MHz			
		Reference Level Plot	6.4 dBm	N/A	N/A
		Occupied Bandwidth	268.1 kHz	N/A	N/A
		High channel, 893.8MHz			
		Reference Level Plot	6.4 dBm	N/A	N/A
		Occupied Bandwidth	263.1 kHz	N/A	N/A
		Band Edge	-39.4 dBm	≤ - 13 dBm	Pass
GPRS modulation					
	High power, Atten = 0				
		Low channel, 869.2MHz			
		Reference Level Plot	20.79 dBm	N/A	N/A
		Occupied Bandwidth	263.1 kHz	N/A	N/A
		Band Edge	-25.4 dBm	≤ - 13 dBm	Pass
		Mid channel, 881.4MHz			
		Reference Level Plot	20.06 dBm	N/A	N/A
		Occupied Bandwidth	264.1 kHz	N/A	N/A
		High channel, 893.8MHz			
		Reference Level Plot	20.19 dBm	N/A	N/A
		Occupied Bandwidth	263.1 kHz	N/A	N/A
		Band Edge	-26.17 dBm	≤ - 13 dBm	Pass
	Mid power, Atten = 3				
		Low channel, 869.2MHz			
		Reference Level Plot	12.7 dBm	N/A	N/A
		Occupied Bandwidth	272.6 kHz	N/A	N/A
		Band Edge	-34.99 dBm	≤ - 13 dBm	Pass
		Mid channel, 881.4MHz			
		Reference Level Plot	12.7 dBm	N/A	N/A
		Occupied Bandwidth	263.1 kHz	N/A	N/A
		High channel, 893.8MHz			
		Reference Level Plot	12.4 dBm	N/A	N/A
		Occupied Bandwidth	264.1 kHz	N/A	N/A
		Band Edge	-33.11 dBm	≤ - 13 dBm	Pass
	Low power, Atten = 6				
		Low channel, 869.2MHz			
		Reference Level Plot	6.4 dBm	N/A	N/A
		Occupied Bandwidth	264.1 kHz	N/A	N/A
		Band Edge	-42.75 dBm	≤ - 13 dBm	Pass
		Mid channel, 881.4MHz			
		Reference Level Plot	6.5 dBm	N/A	N/A
		Occupied Bandwidth	264.1 kHz	N/A	N/A
		High channel, 893.8MHz			
		Reference Level Plot	6.4 dBm	N/A	N/A
		Occupied Bandwidth	272.1 kHz	N/A	N/A
		Band Edge	-38.9 dBm	≤ - 13 dBm	Pass

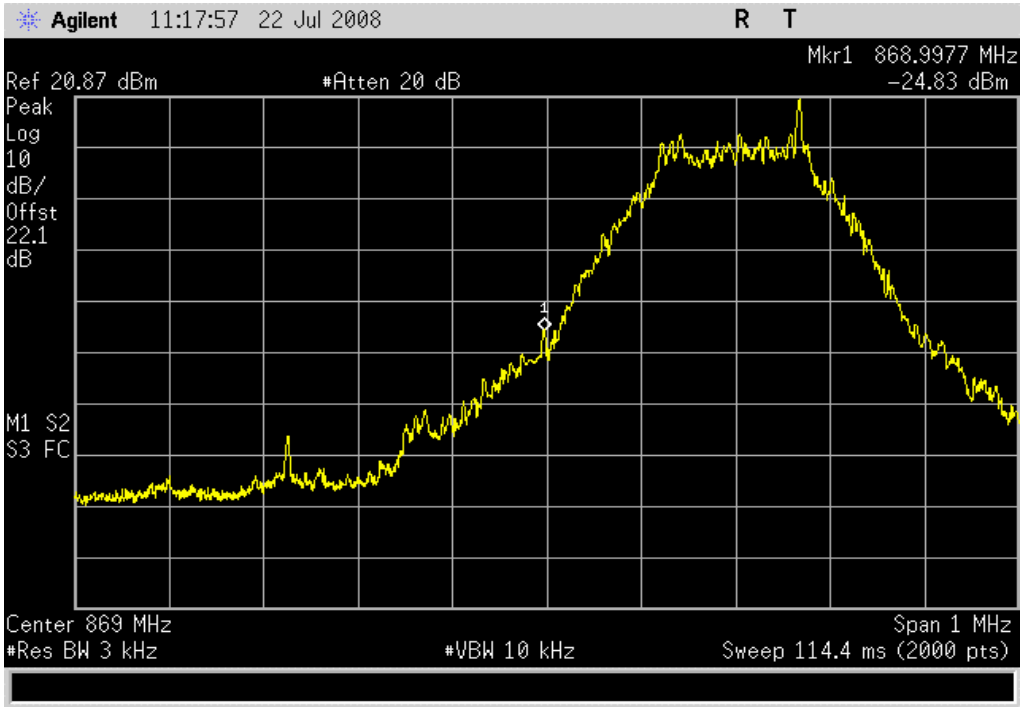
GSM modulation , High power, Atten = 0, Low channel, 869.2MHz, Reference Level Plot					
Result:	N/A	**Value:**	20.87 dBm	**Limit:**	N/A



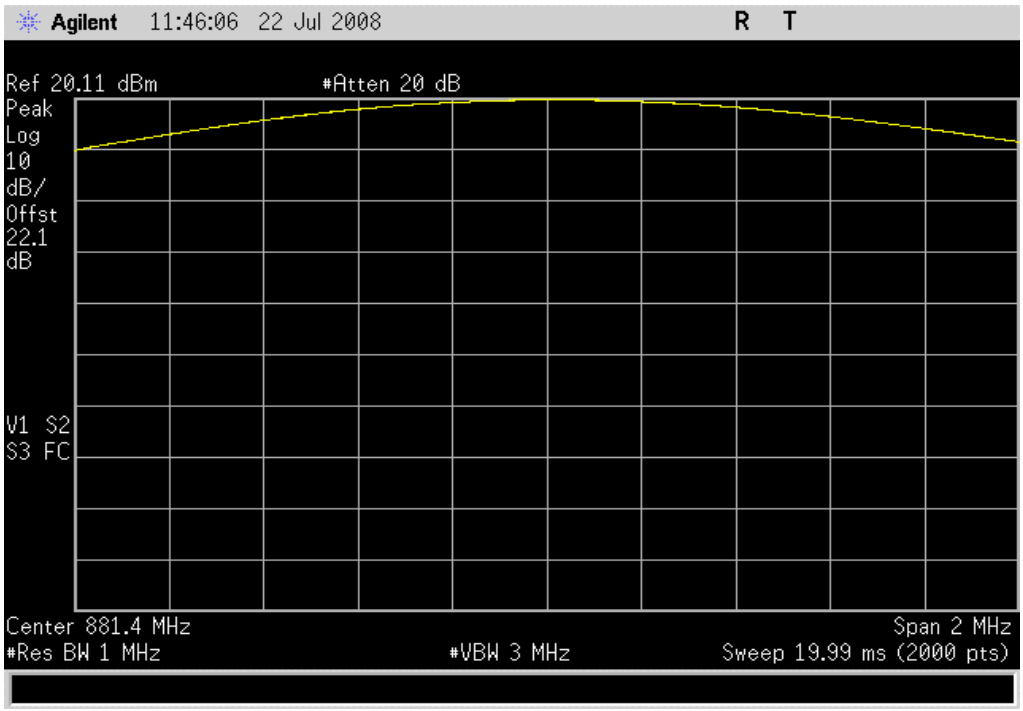
GSM modulation , High power, Atten = 0, Low channel, 869.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	268.1 kHz	**Limit:**	N/A



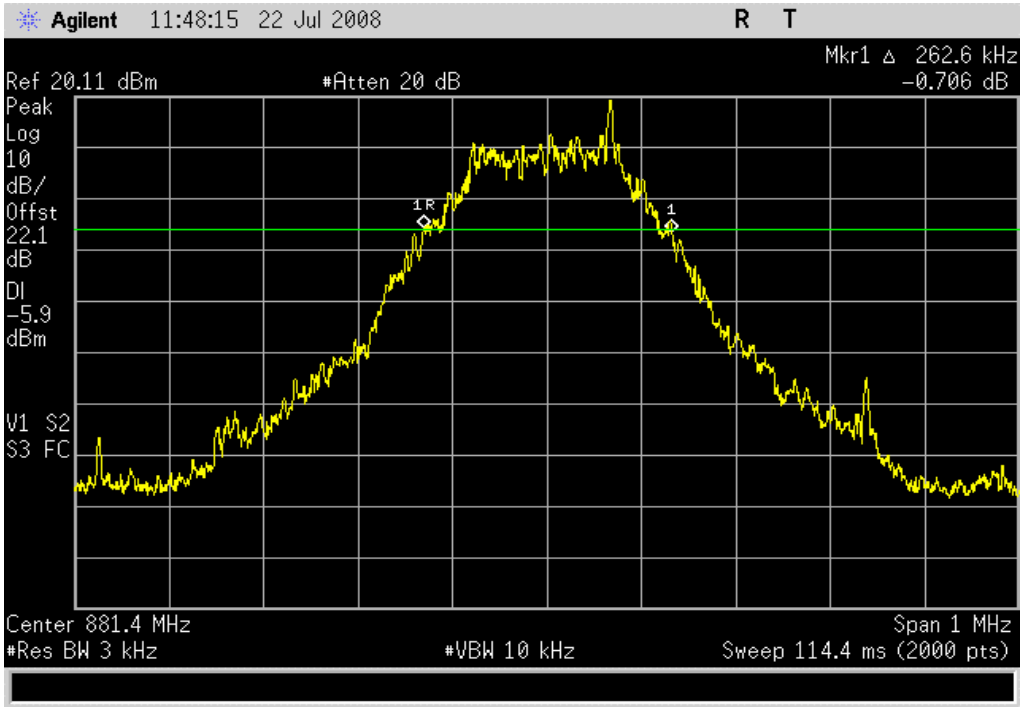
GSM modulation , High power, Atten = 0, Low channel, 869.2MHz, Band Edge					
Result:	Pass	**Value:**	-24.8 dBm	**Limit:**	≤ - 13 dBm



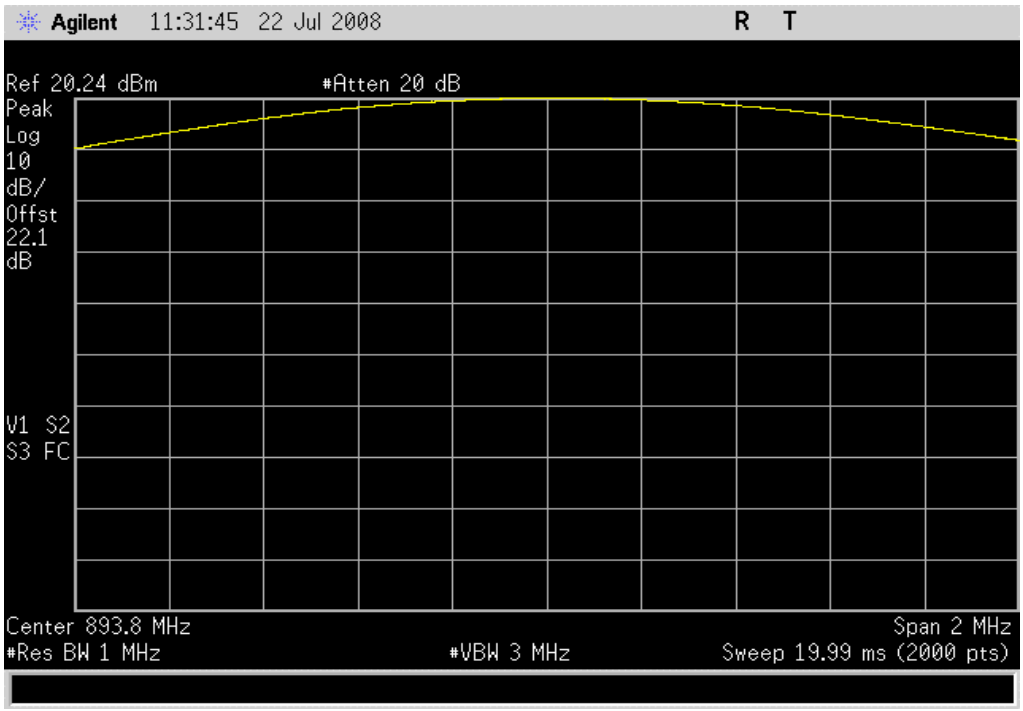
GSM modulation , High power, Atten = 0, Mid channel, 881.4MHz, Reference Level Plot					
Result:	N/A	**Value:**	20.11 dBm	**Limit:**	N/A



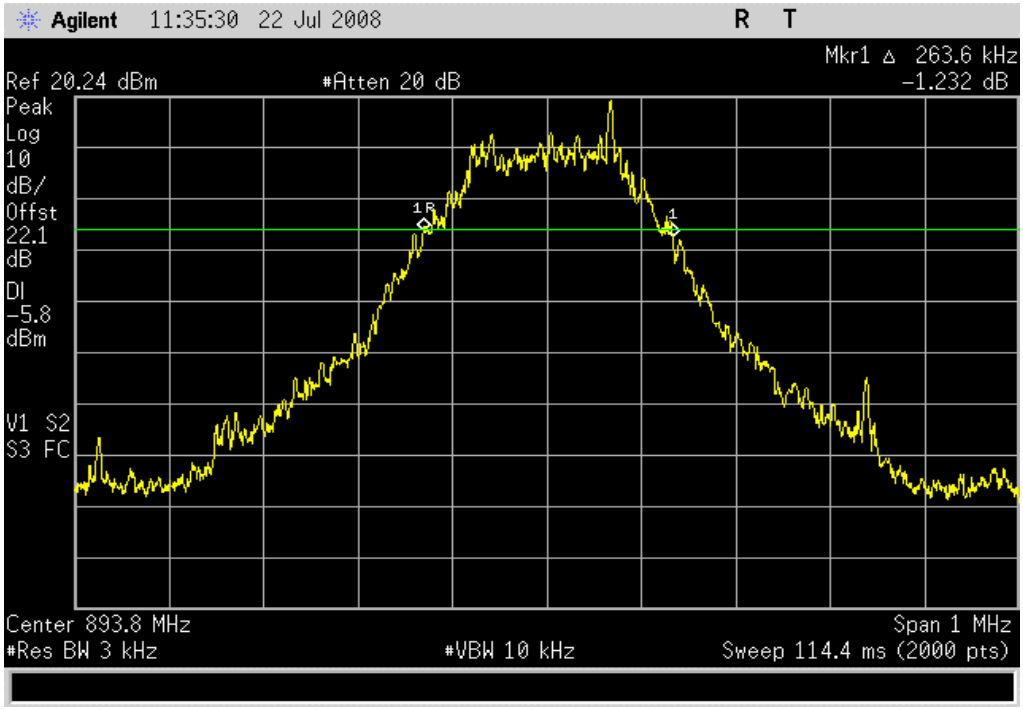
GSM modulation , High power, Atten = 0, Mid channel, 881.4MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	262.6 kHz	**Limit:**	N/A



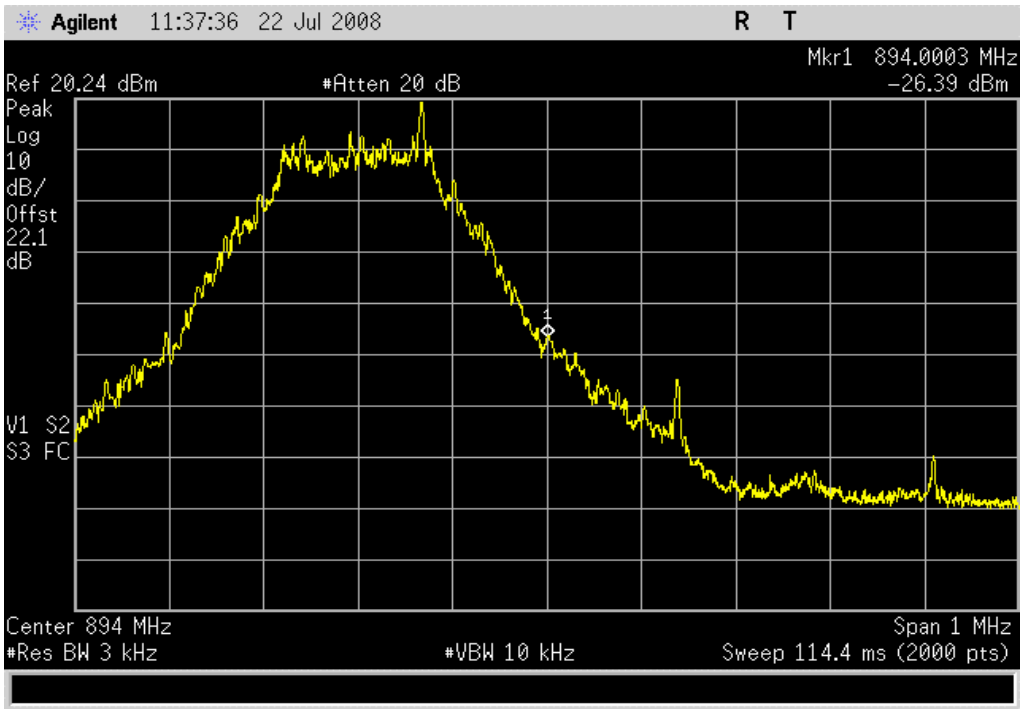
GSM modulation , High power, Atten = 0, High channel, 893.8MHz, Reference Level Plot					
Result:	N/A	**Value:**	20.24 dBm	**Limit:**	N/A



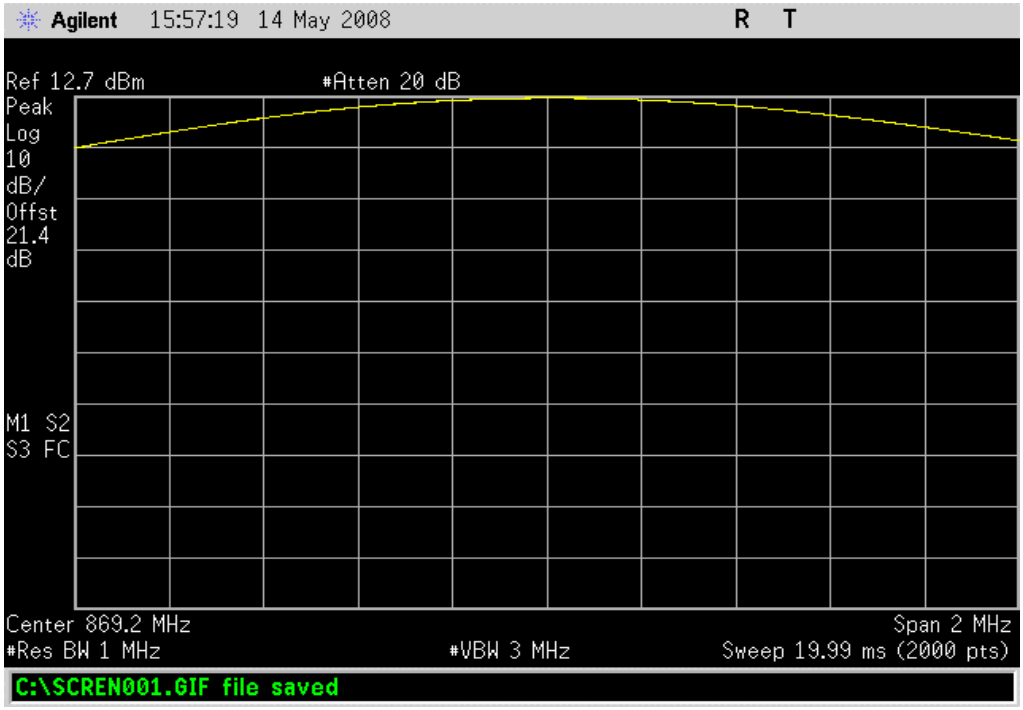
GSM modulation , High power, Atten = 0, High channel, 893.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.6 kHz	**Limit:**	N/A



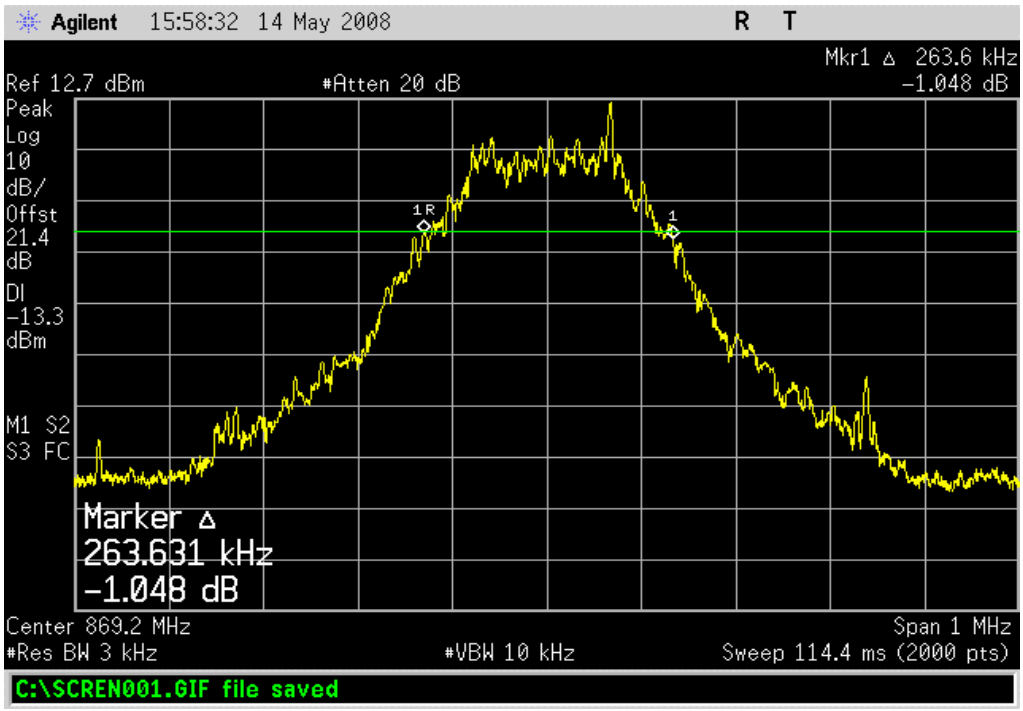
GSM modulation , High power, Atten = 0, High channel, 893.8MHz, Band Edge					
Result:	Pass	**Value:**	-26.4 dBm	**Limit:**	≤ - 13 dBm



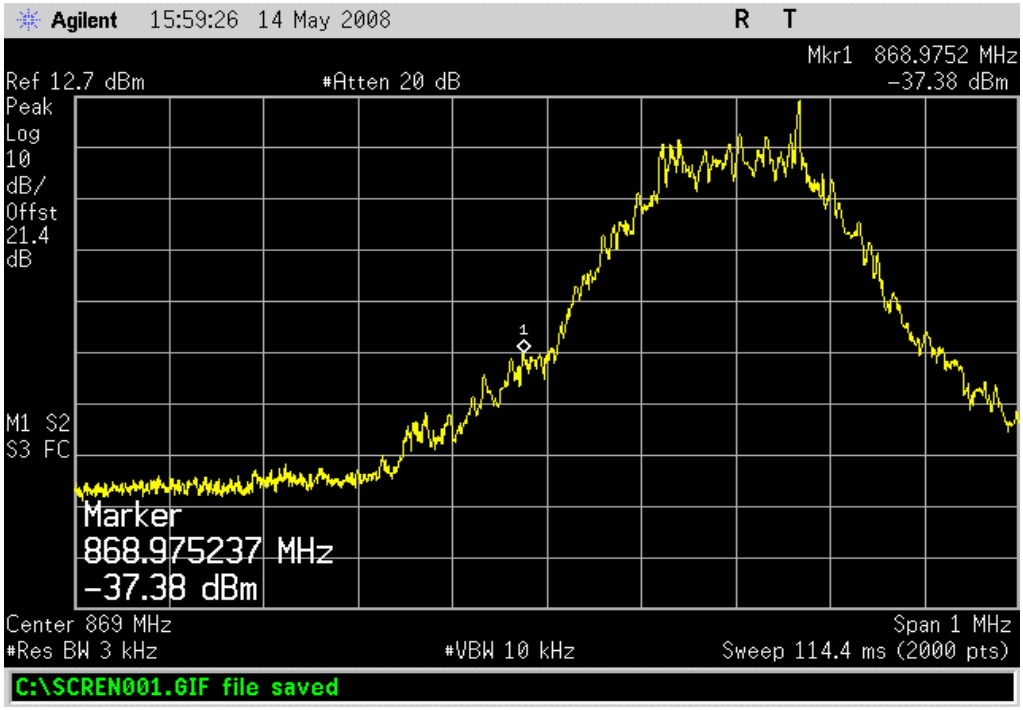
GSM modulation , Mid power, Atten = 3, Low channel, 869.2MHz, Reference Level Plot					
Result:	N/A	**Value:**	12.7 dBm	**Limit:**	N/A



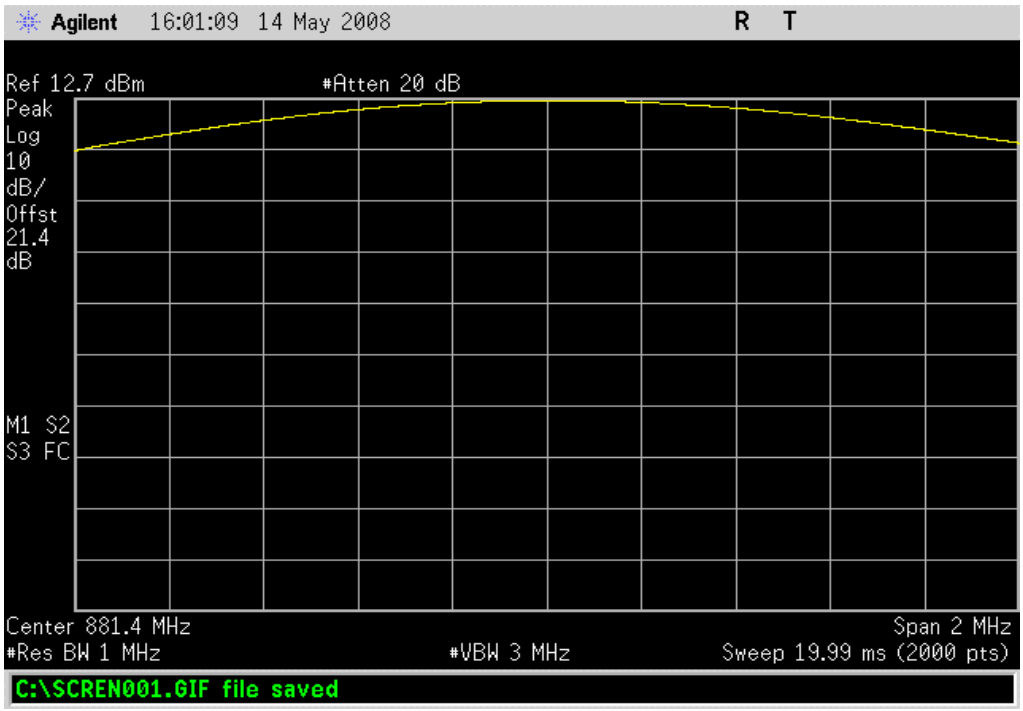
GSM modulation , Mid power, Atten = 3, Low channel, 869.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.6 kHz	**Limit:**	N/A



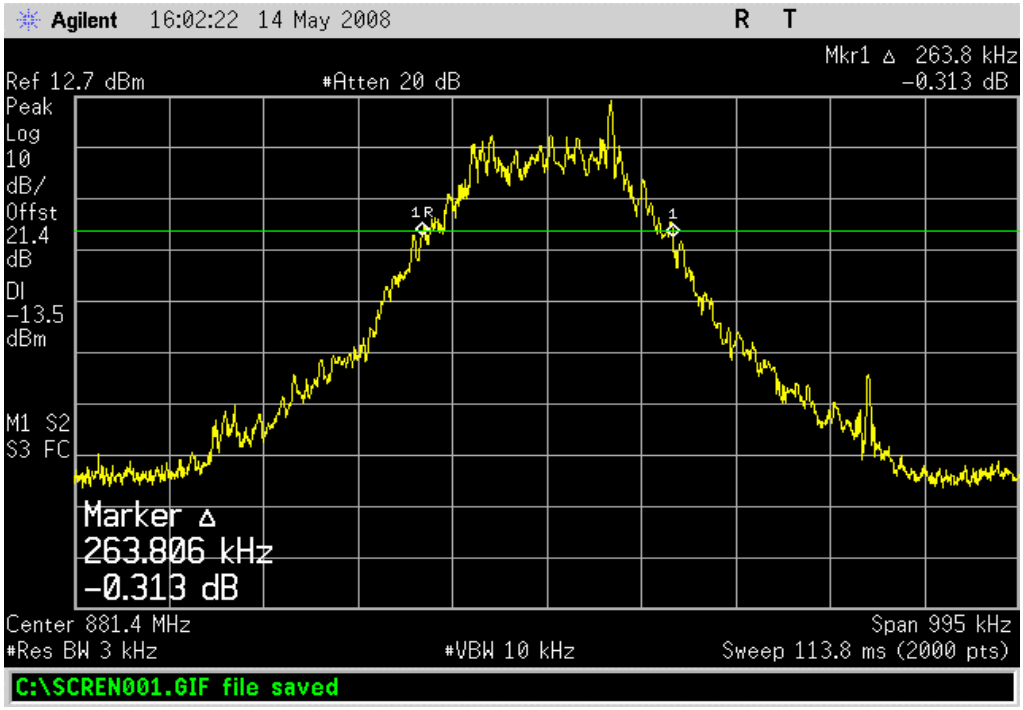
GSM modulation , Mid power, Atten = 3, Low channel, 869.2MHz, Band Edge					
Result:	Pass	**Value:**	-37.38 dBm	**Limit:**	≤ - 13 dBm



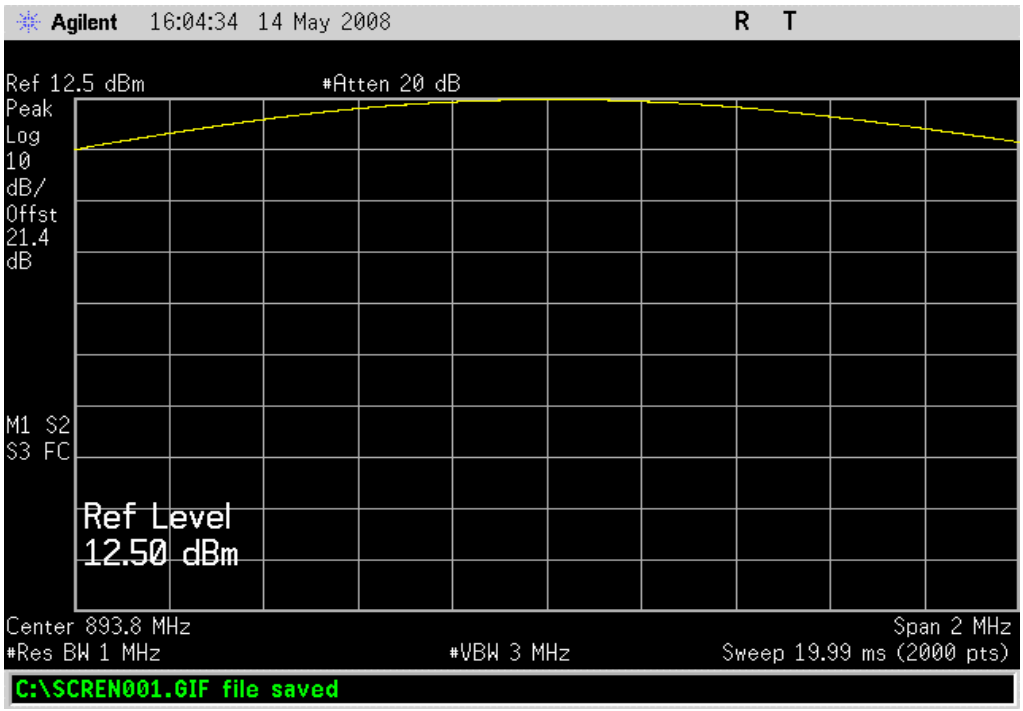
GSM modulation , Mid power, Atten = 3, Mid channel, 881.4MHz, Reference Level Plot					
Result:	N/A	**Value:**	12.5 dBm	**Limit:**	N/A



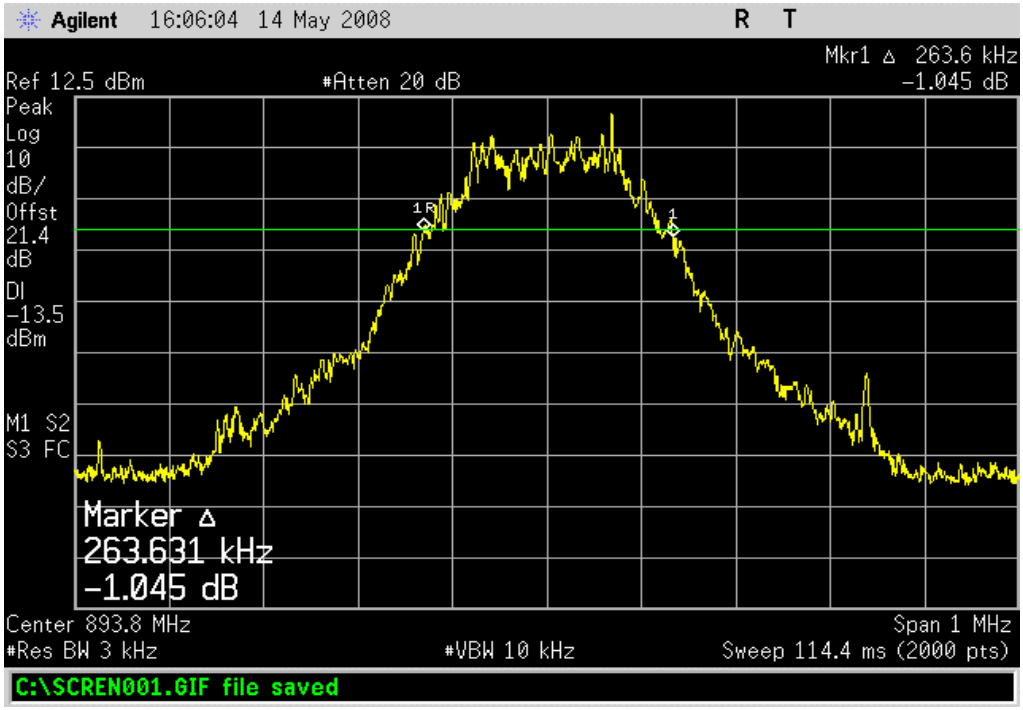
GSM modulation , Mid power, Atten = 3, Mid channel, 881.4MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.8 kHz	**Limit:**	N/A



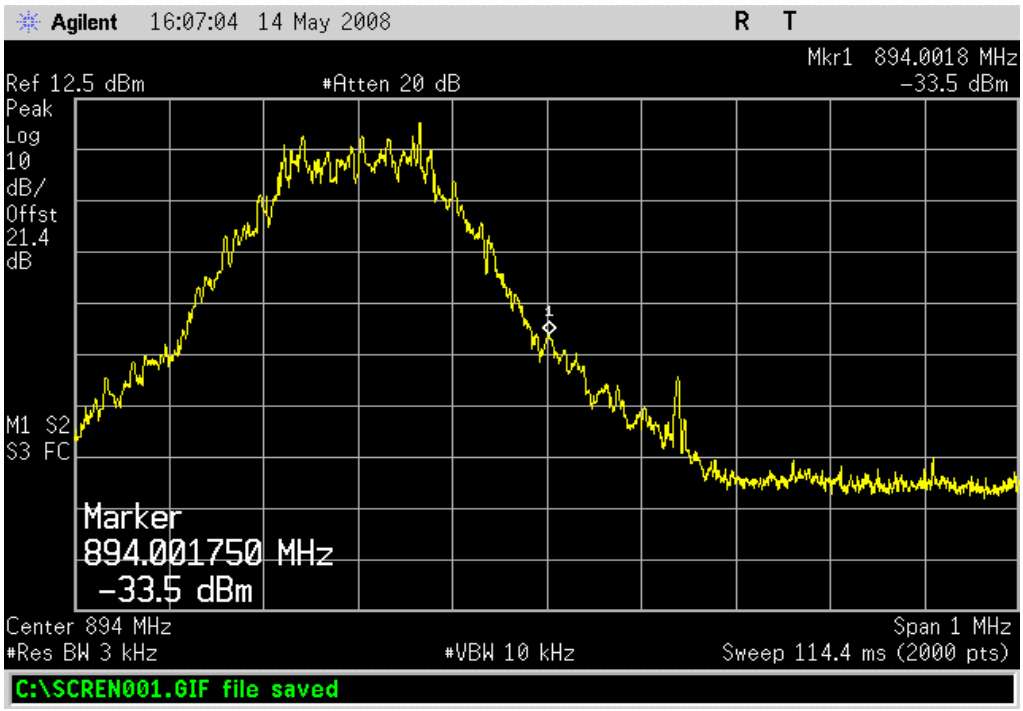
GSM modulation , Mid power, Atten = 3, High channel, 893.8MHz, Reference Level Plot					
Result:	N/A	**Value:**	12.5 dBm	**Limit:**	N/A



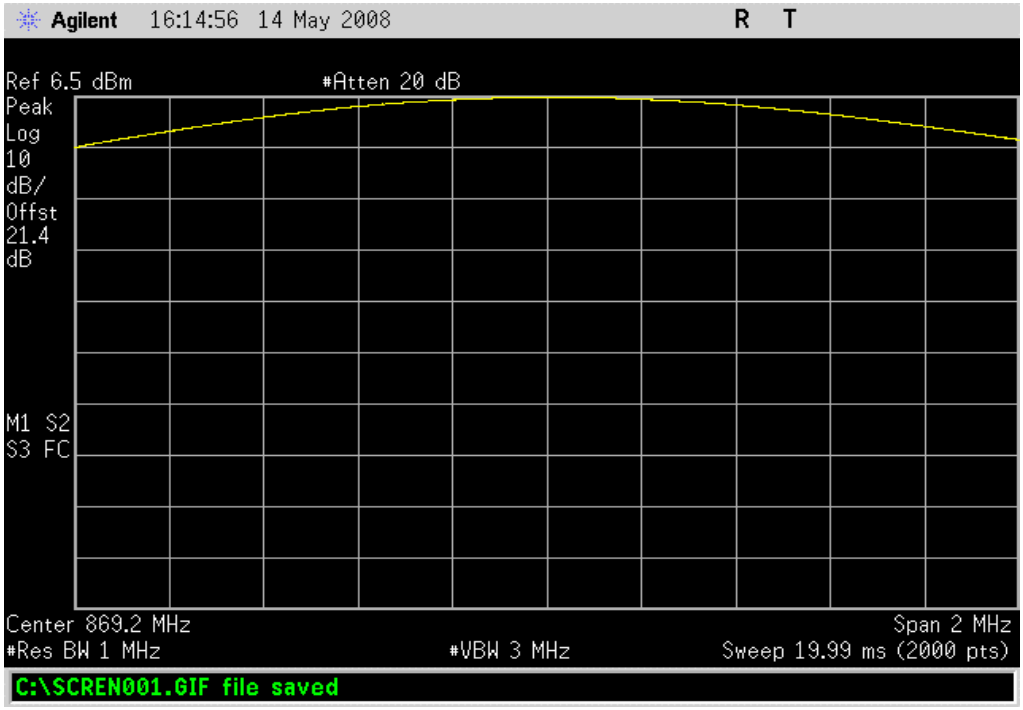
GSM modulation , Mid power, Atten = 3, High channel, 893.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.6 kHz	**Limit:**	N/A



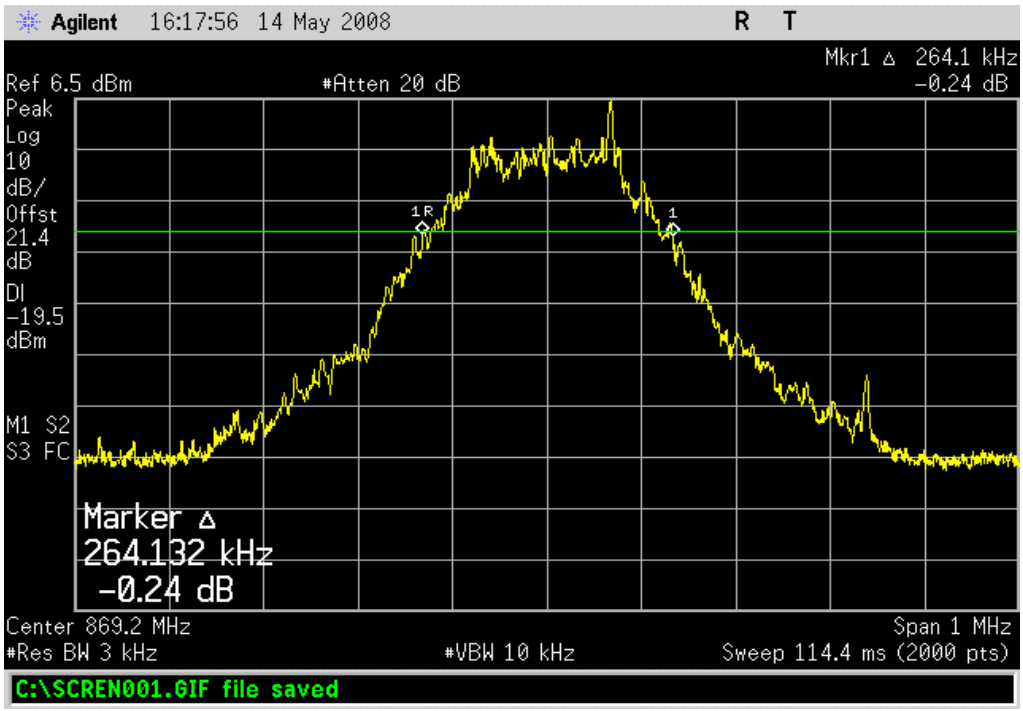
GSM modulation , Mid power, Atten = 3, High channel, 893.8MHz, Band Edge					
Result:	Pass	**Value:**	-33.5 dBm	**Limit:**	≤ - 13 dBm



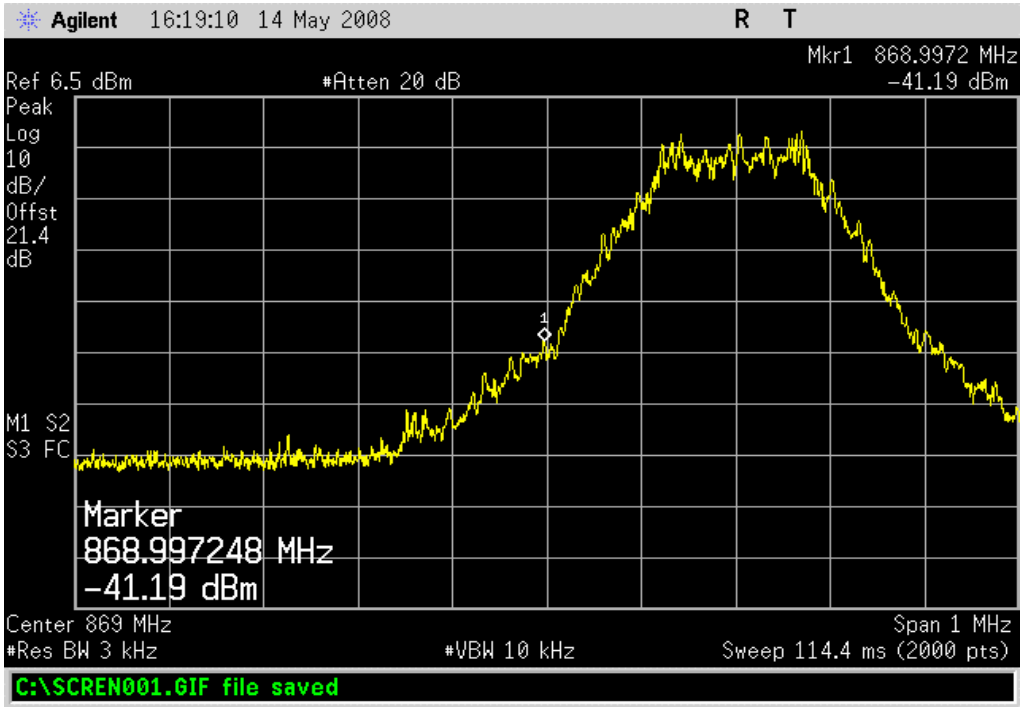
GSM modulation , Low power, Atten = 6, Low channel, 869.2MHz, Reference Level Plot					
Result:	N/A	**Value:**	6.5 dBm	**Limit:**	N/A



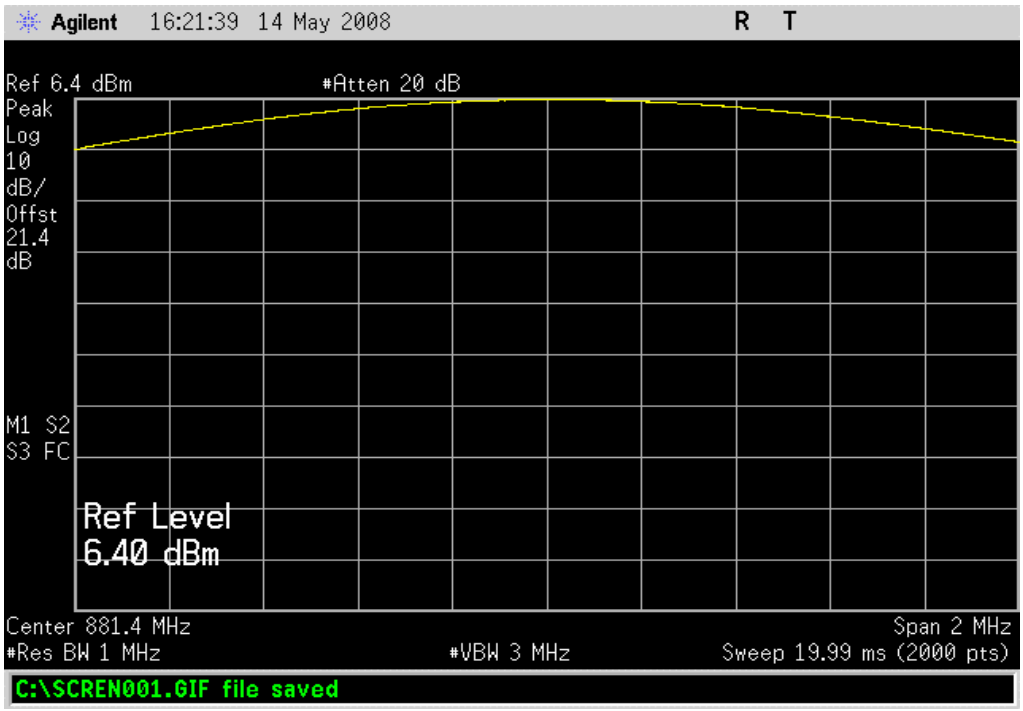
GSM modulation , Low power, Atten = 6, Low channel, 869.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.132 kHz	**Limit:**	N/A



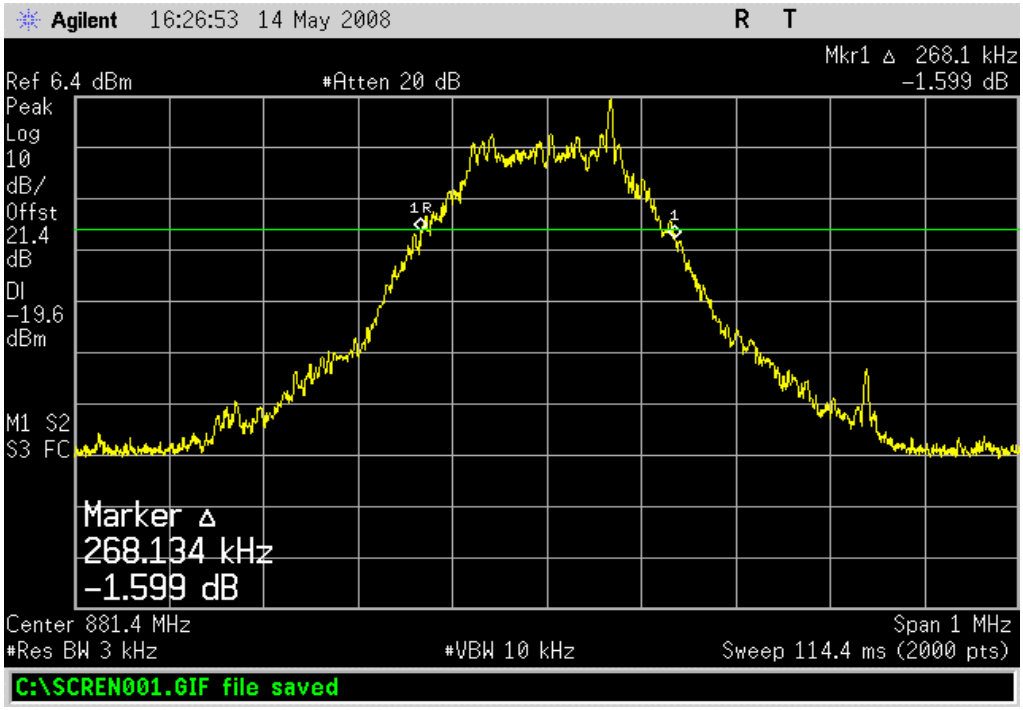
GSM modulation , Low power, Atten = 6, Low channel, 869.2MHz, Band Edge					
Result:	Pass	**Value:**	-41.19 dBm	**Limit:**	≤ - 13 dBm



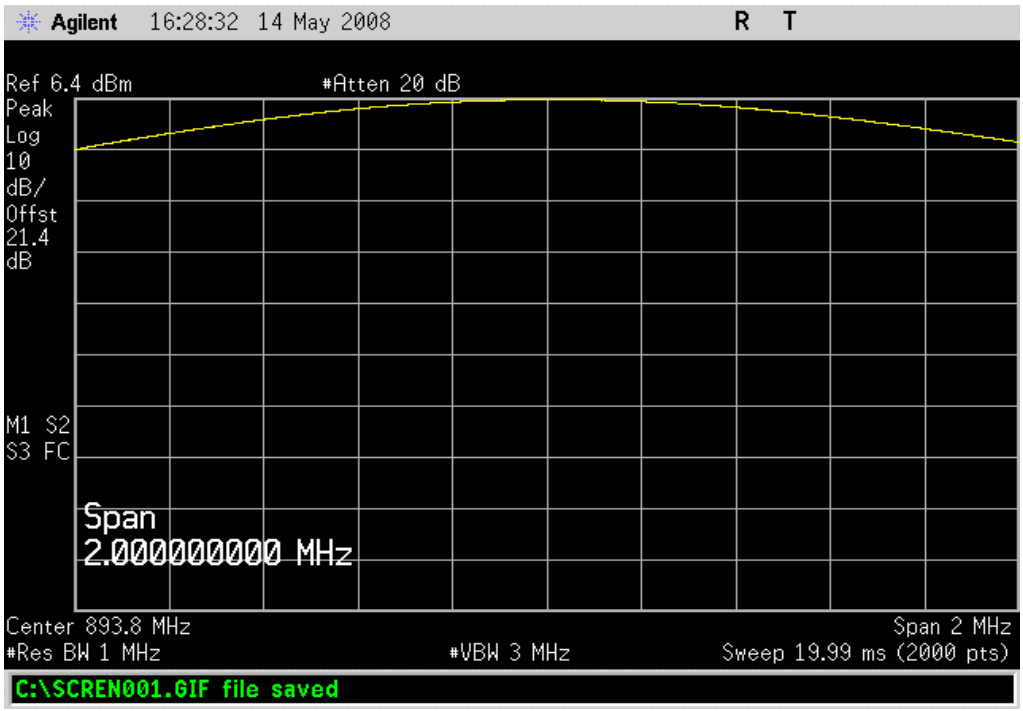
GSM modulation , Low power, Atten = 6, Mid channel, 881.4MHz, Reference Level Plot					
Result:	N/A	**Value:**	6.4 dBm	**Limit:**	N/A



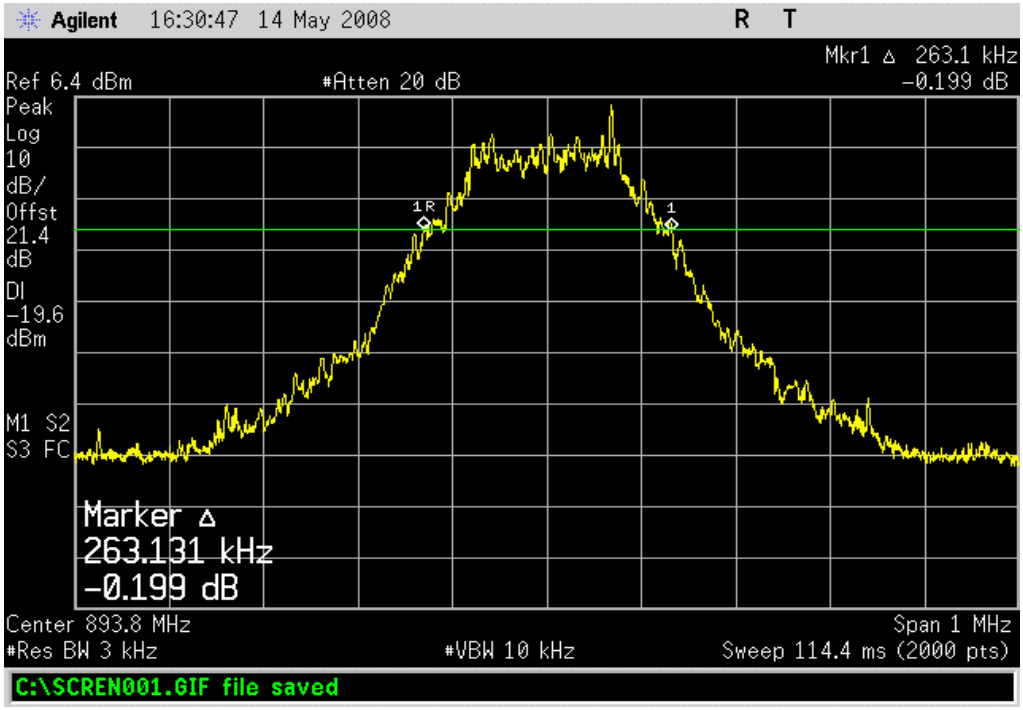
GSM modulation , Low power, Atten = 6, Mid channel, 881.4MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	268.1 kHz	**Limit:**	N/A



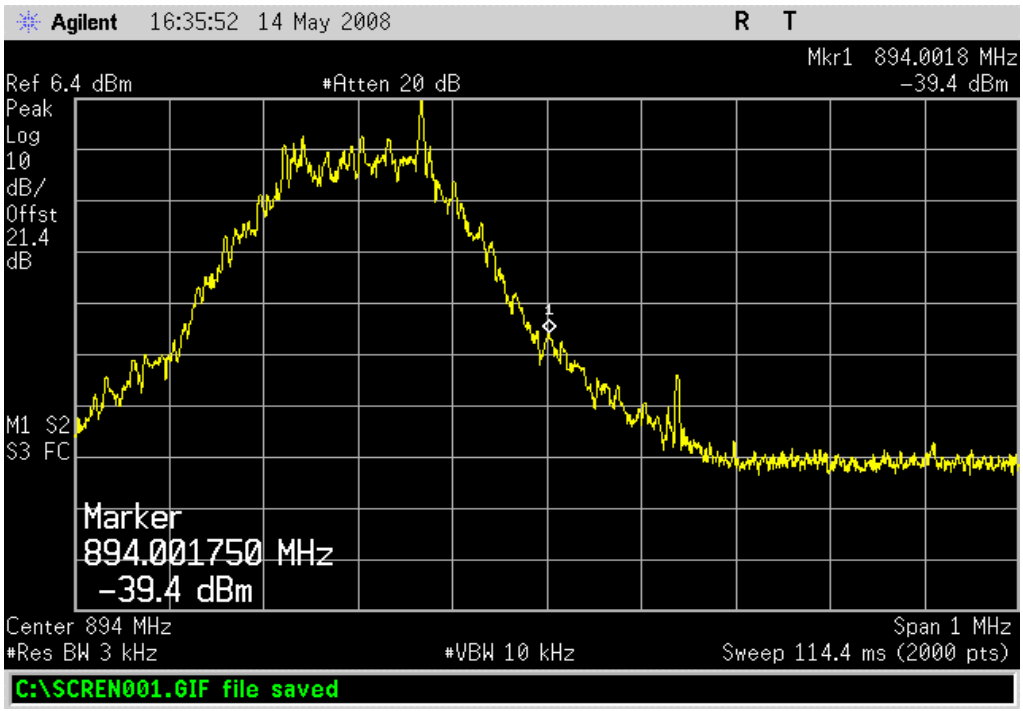
GSM modulation , Low power, Atten = 6, High channel, 893.8MHz, Reference Level Plot					
Result:	N/A	**Value:**	6.4 dBm	**Limit:**	N/A



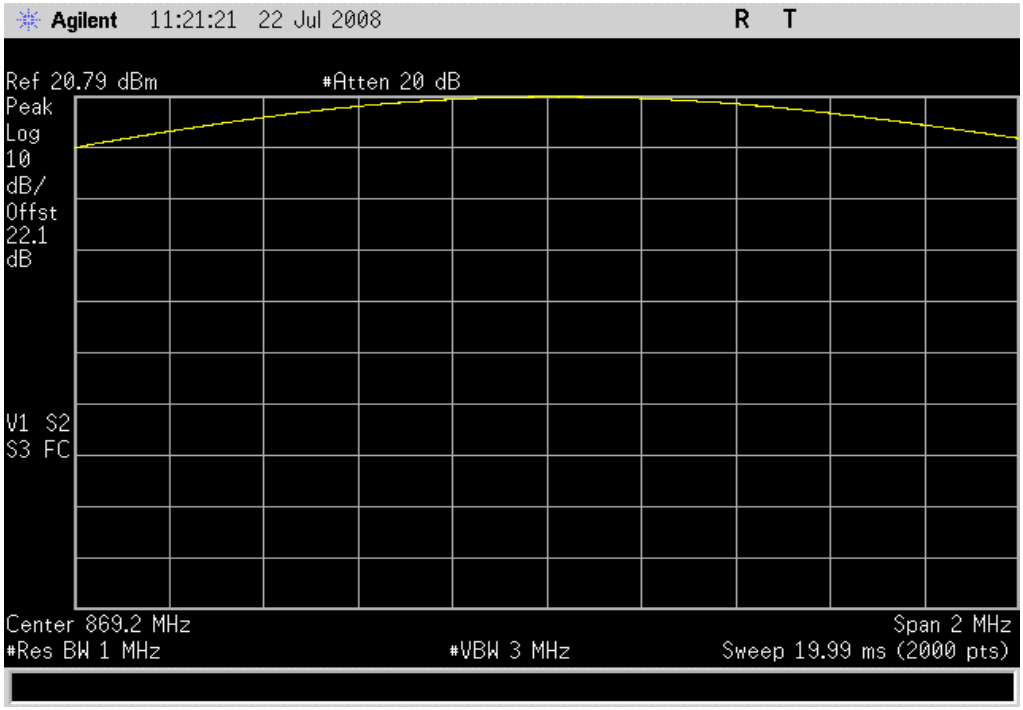
GSM modulation , Low power, Atten = 6, High channel, 893.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.1 kHz	**Limit:**	N/A



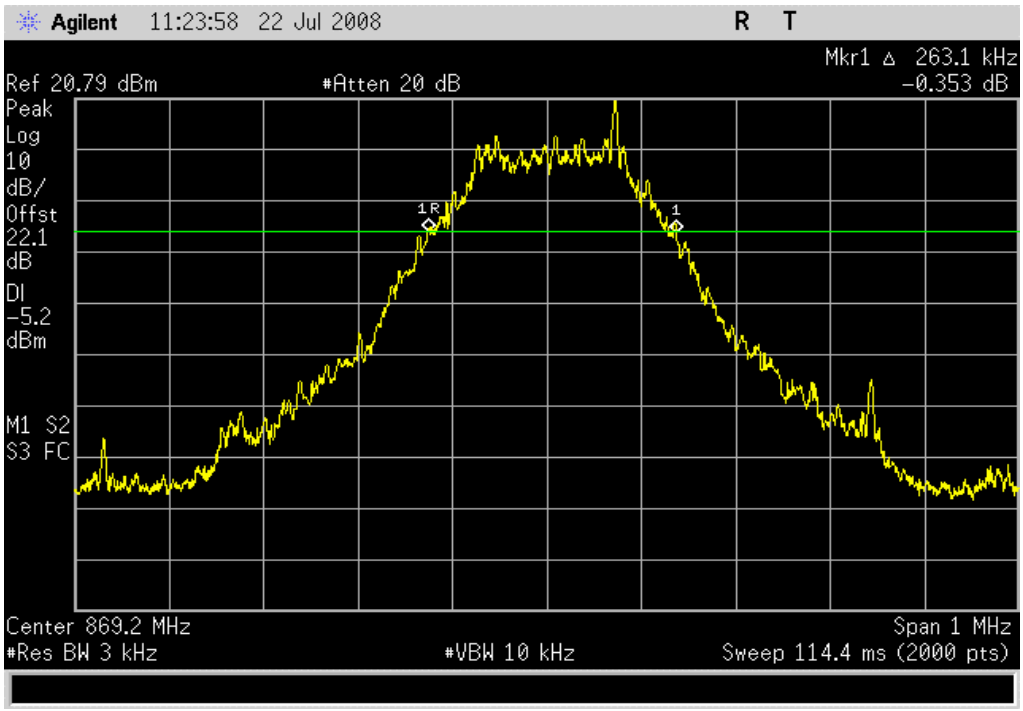
GSM modulation , Low power, Atten = 6, High channel, 893.8MHz, Band Edge					
Result:	Pass	**Value:**	-39.4 dBm	**Limit:**	≤ - 13 dBm



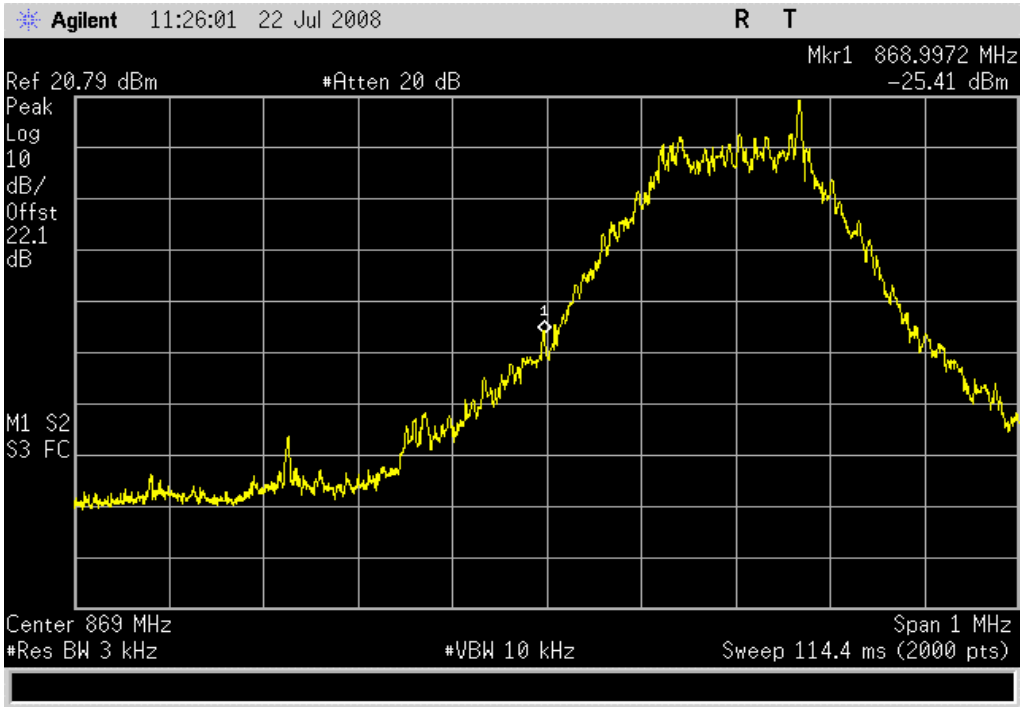
GPRS modulation, High power, Atten = 0, Low channel, 869.2MHz, Reference Level Plot					
Result:	N/A	**Value:**	20.79 dBm	**Limit:**	N/A



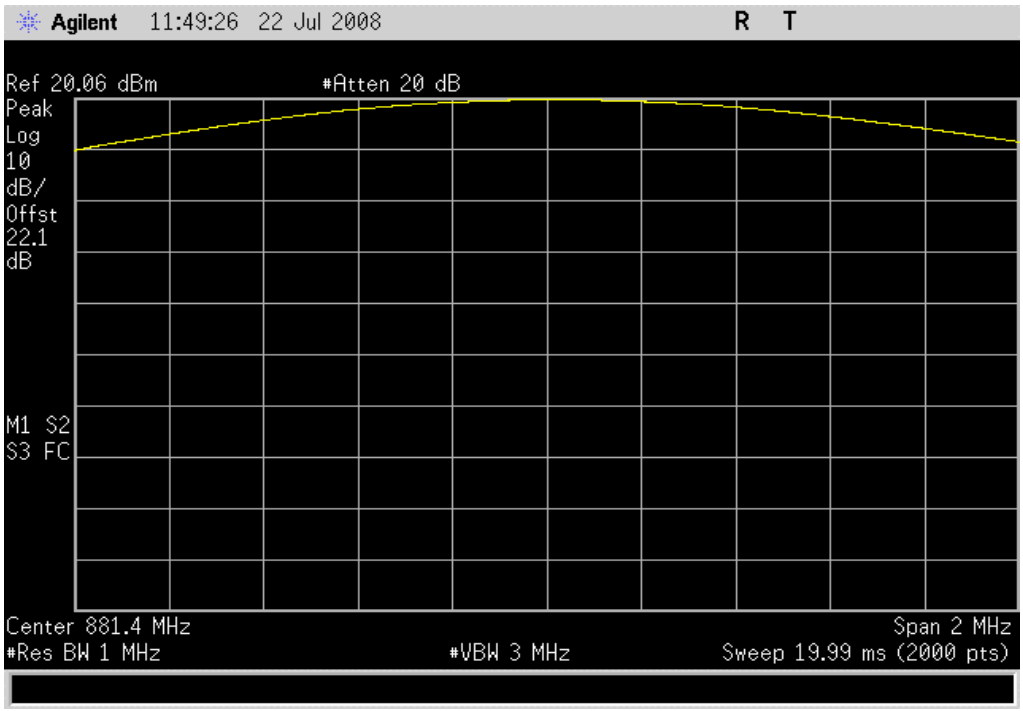
GPRS modulation, High power, Atten = 0, Low channel, 869.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.1 kHz	**Limit:**	N/A



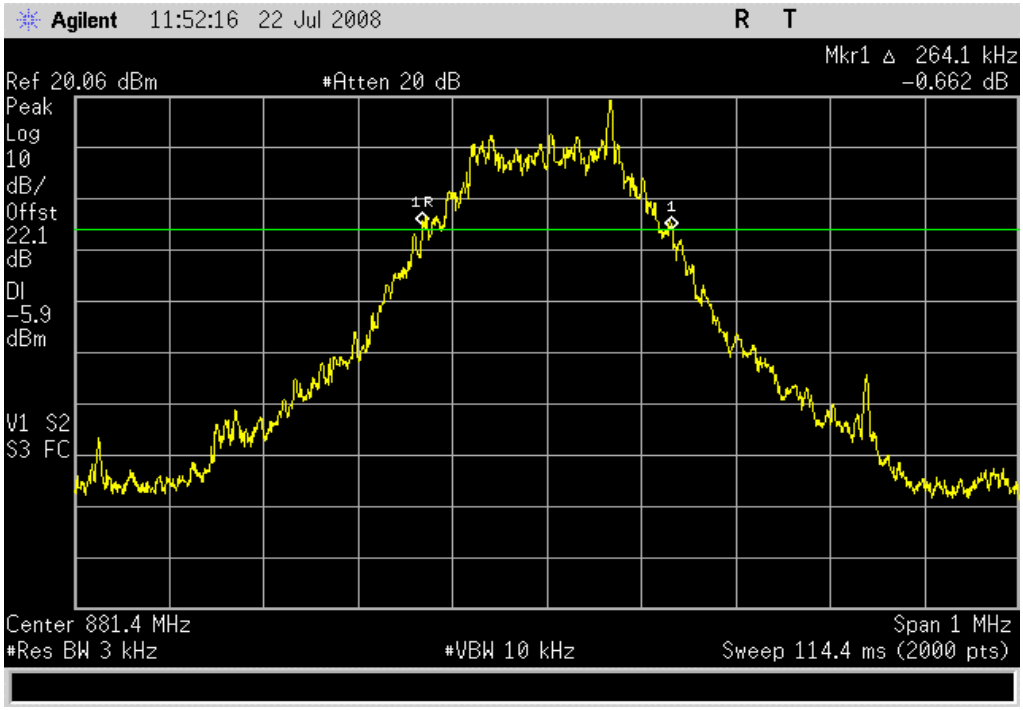
GPRS modulation, High power, Atten = 0, Low channel, 869.2MHz, Band Edge					
Result:	Pass	**Value:**	-25.4 dBm	**Limit:**	≤ - 13 dBm



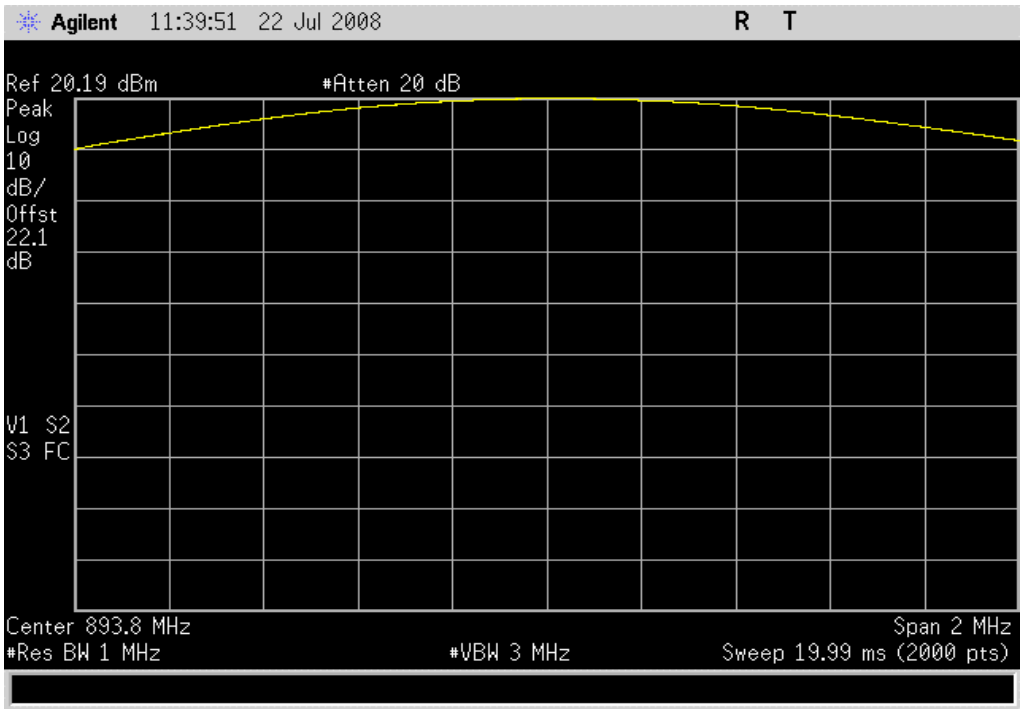
GPRS modulation, High power, Atten = 0, Mid channel, 881.4MHz, Reference Level Plot					
Result:	N/A	**Value:**	20.06 dBm	**Limit:**	N/A



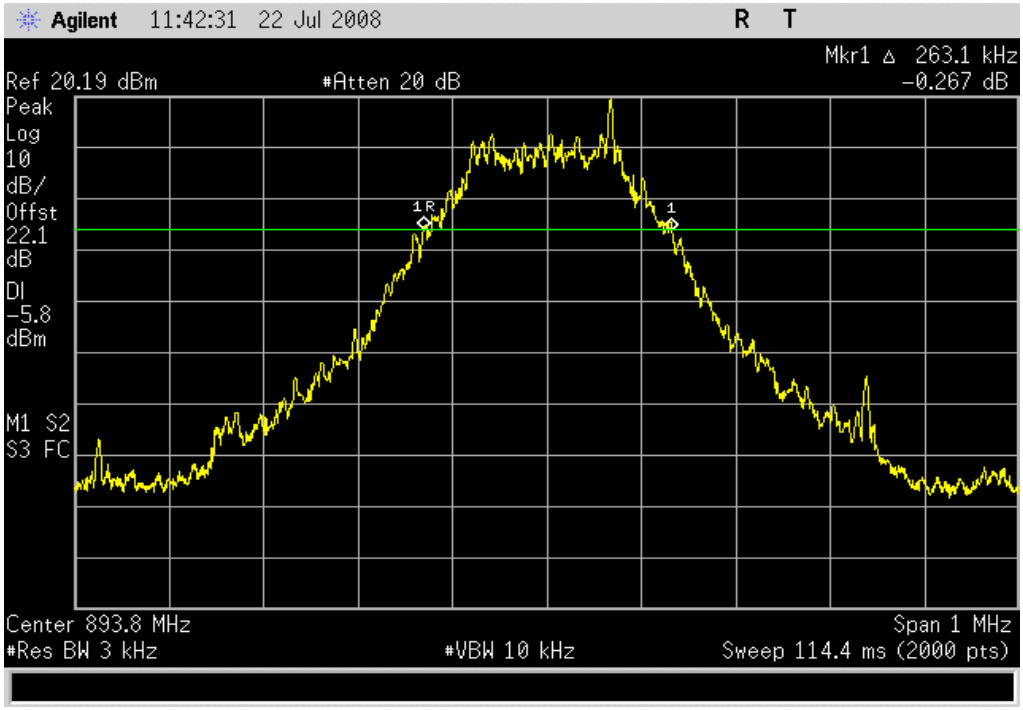
GPRS modulation, High power, Atten = 0, Mid channel, 881.4MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.1 kHz	**Limit:**	N/A



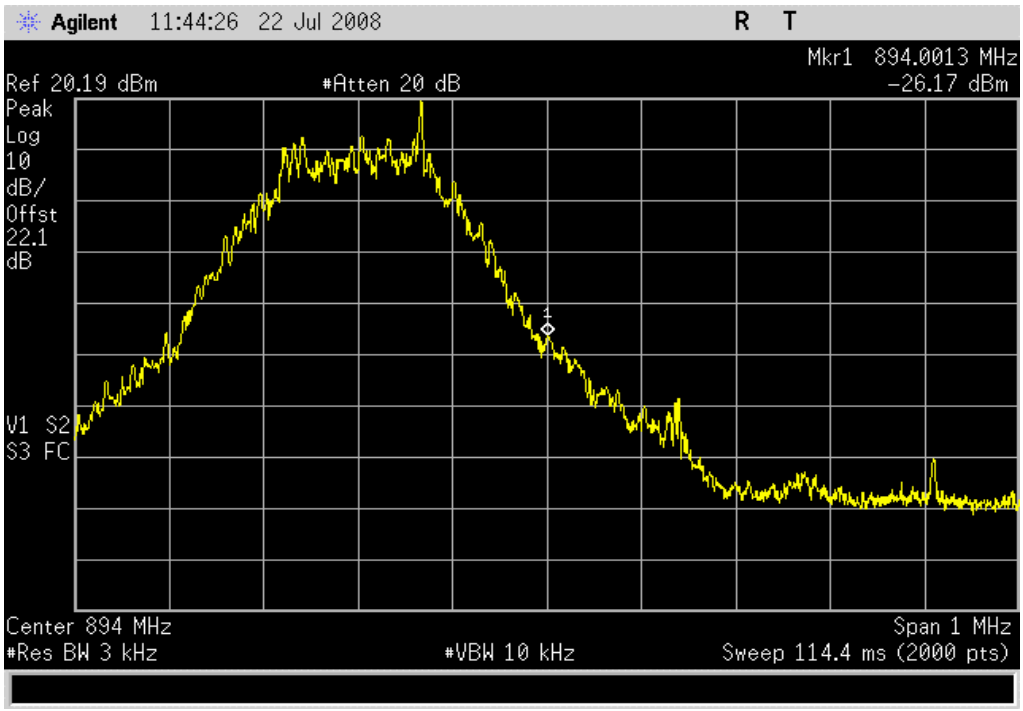
GPRS modulation, High power, Atten = 0, High channel, 893.8MHz, Reference Level Plot					
Result:	N/A	**Value:**	20.19 dBm	**Limit:**	N/A



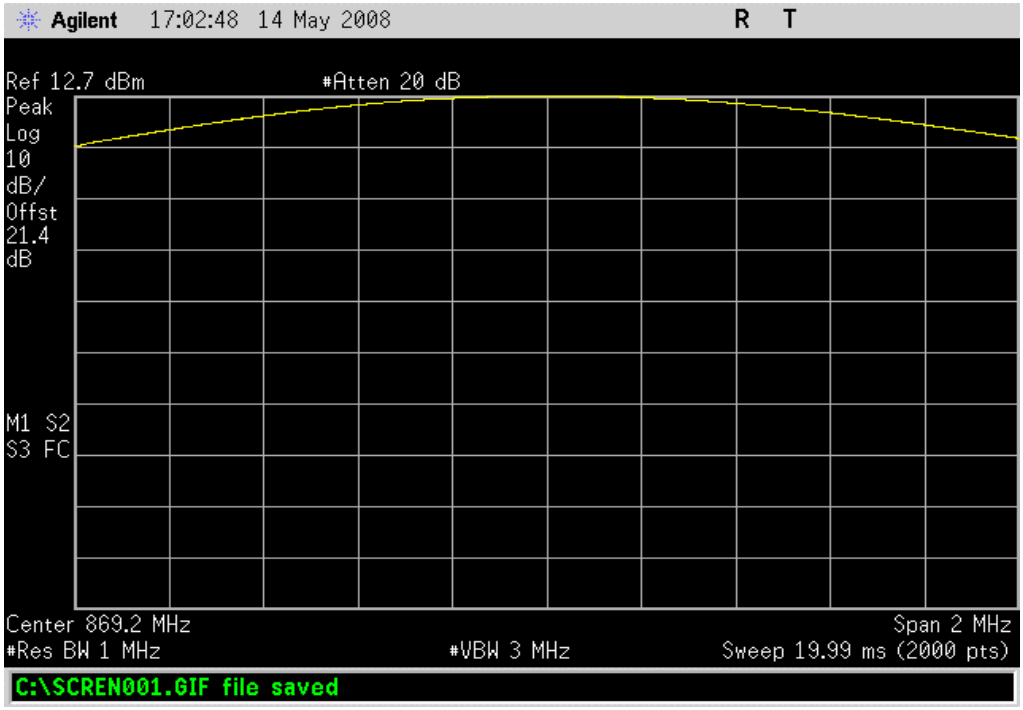
GPRS modulation, High power, Atten = 0, High channel, 893.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.1 kHz	**Limit:**	N/A



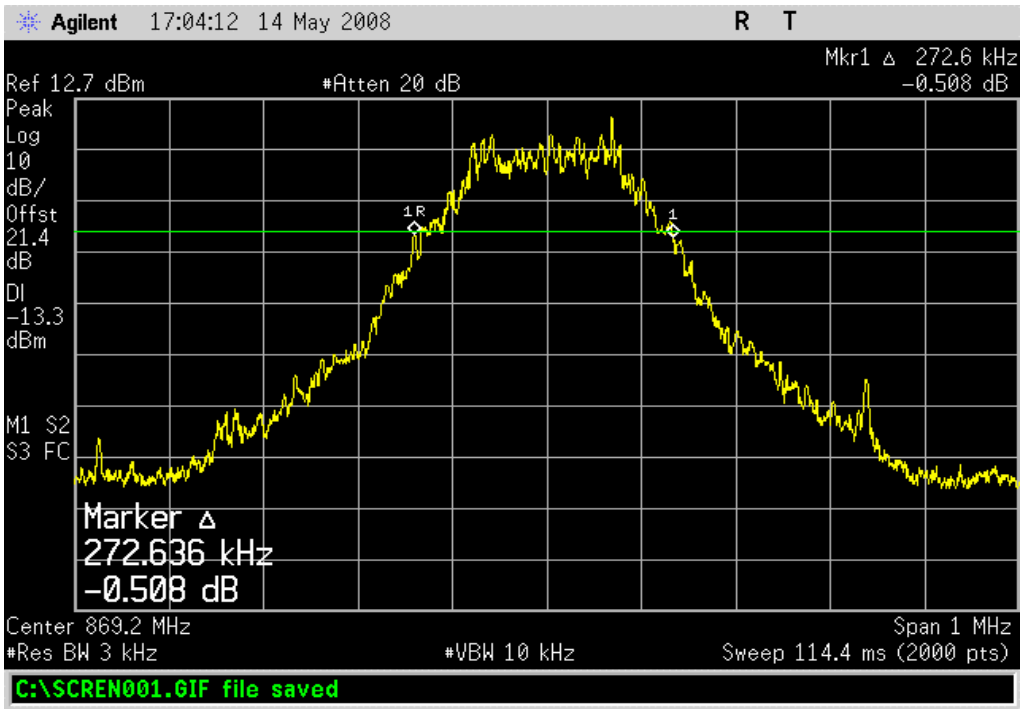
GPRS modulation, High power, Atten = 0, High channel, 893.8MHz, Band Edge					
Result:	Pass	**Value:**	-26.17 dBm	**Limit:**	≤ - 13 dBm



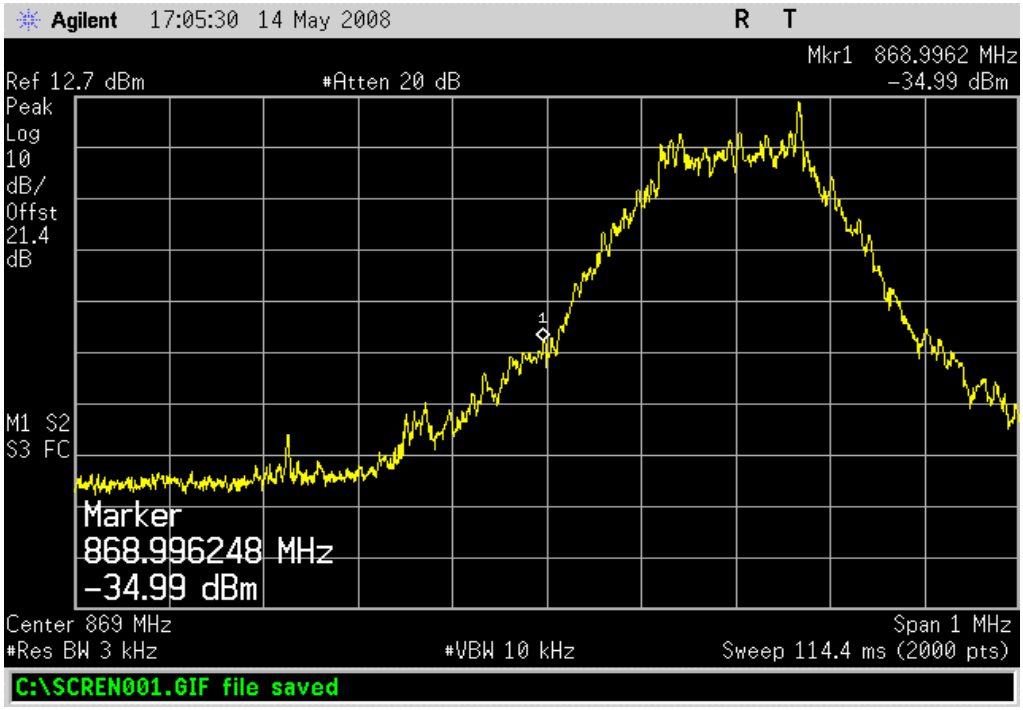
GPRS modulation, Mid power, Atten = 3, Low channel, 869.2MHz, Reference Level Plot					
Result:	N/A	**Value:**	12.7 dBm	**Limit:**	N/A



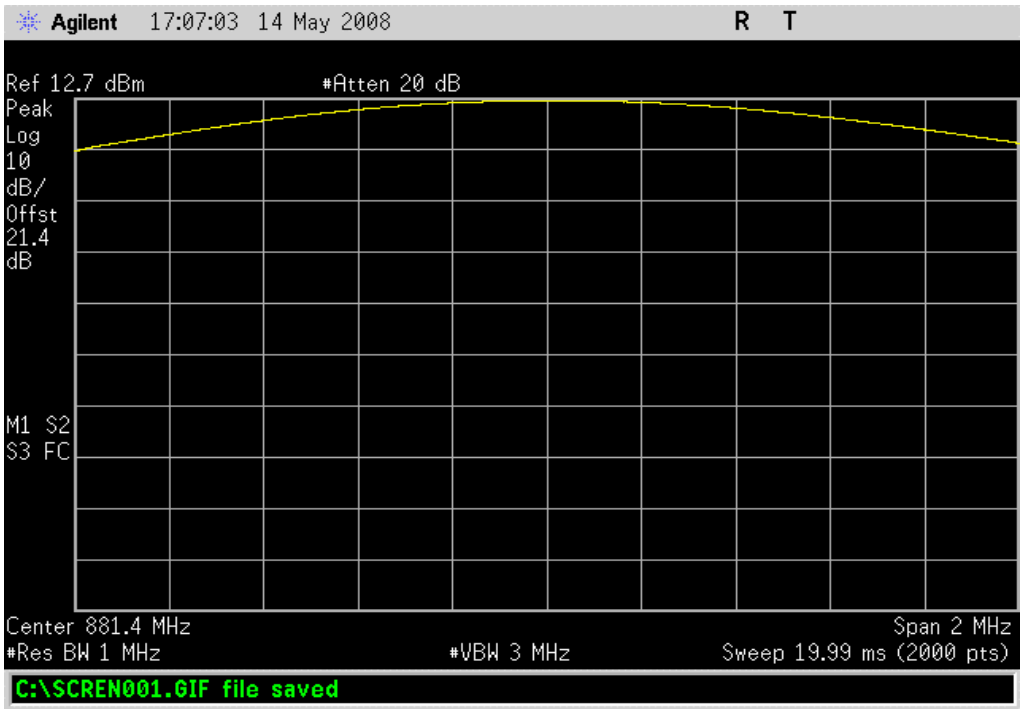
GPRS modulation, Mid power, Atten = 3, Low channel, 869.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	272.6 kHz	**Limit:**	N/A



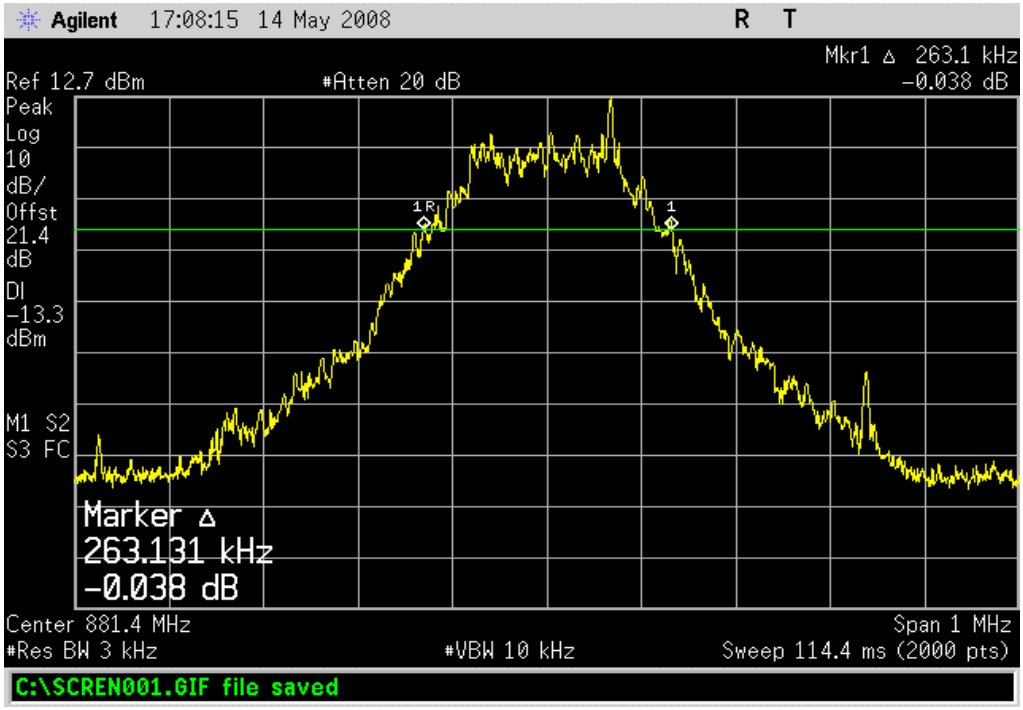
GPRS modulation, Mid power, Atten = 3, Low channel, 869.2MHz, Band Edge					
Result:	Pass	**Value:**	-34.99 dBm	**Limit:**	≤ - 13 dBm



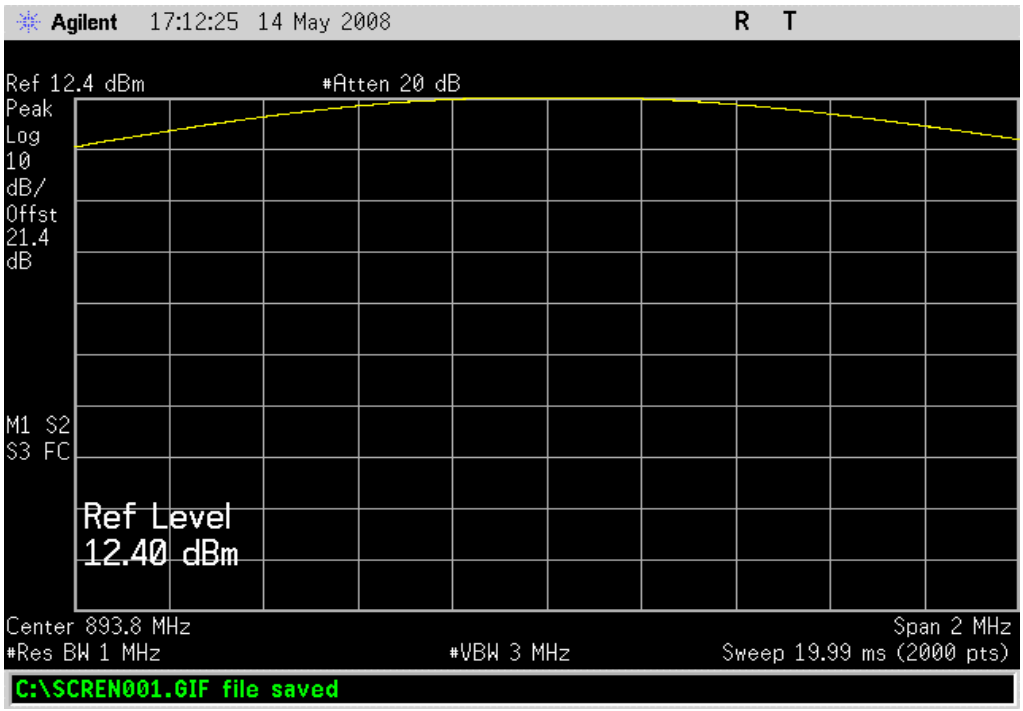
GPRS modulation, Mid power, Atten = 3, Mid channel, 881.4MHz, Reference Level Plot					
Result:	N/A	**Value:**	12.7 dBm	**Limit:**	N/A



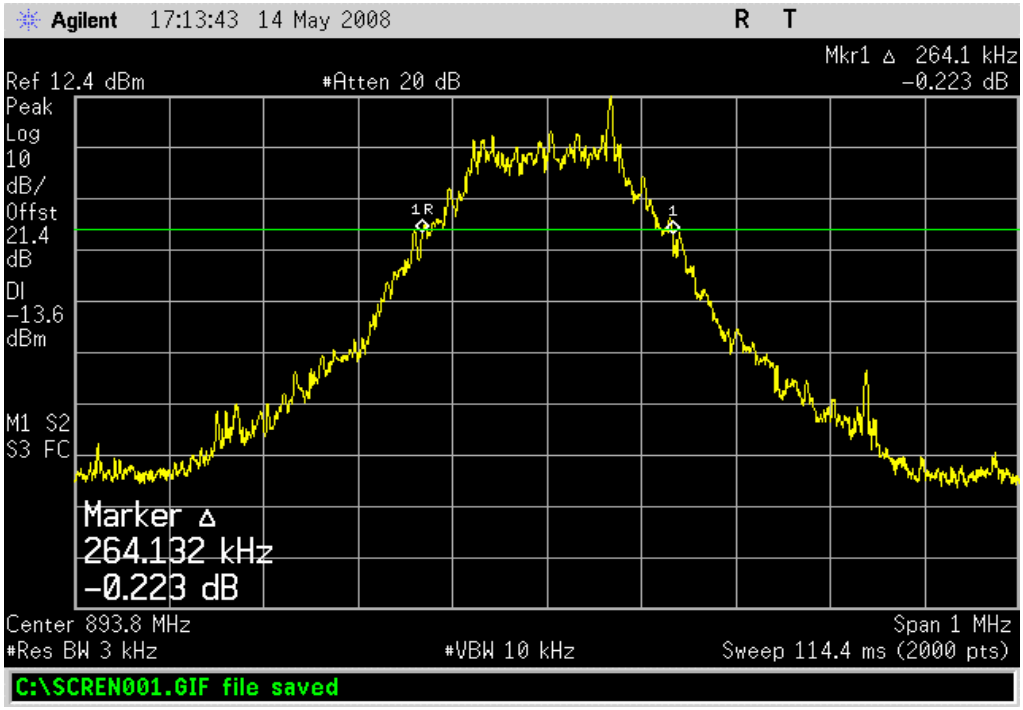
GPRS modulation, Mid power, Atten = 3, Mid channel, 881.4MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.1 kHz	**Limit:**	N/A



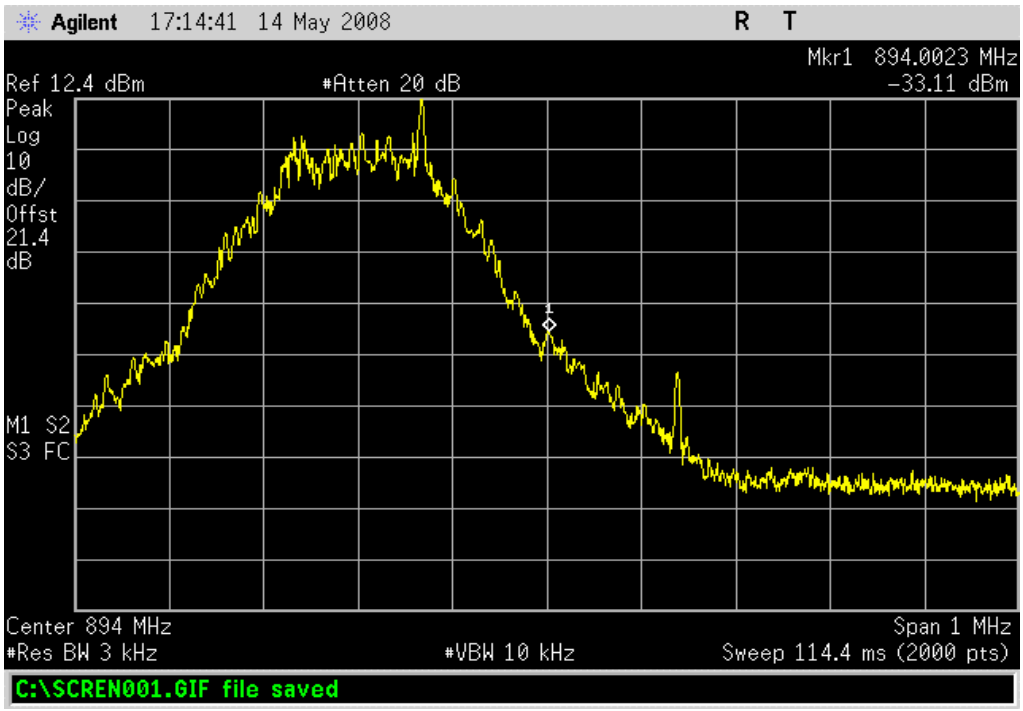
GPRS modulation, Mid power, Atten = 3, High channel, 893.8MHz, Reference Level Plot					
Result:	N/A	**Value:**	12.4 dBm	**Limit:**	N/A



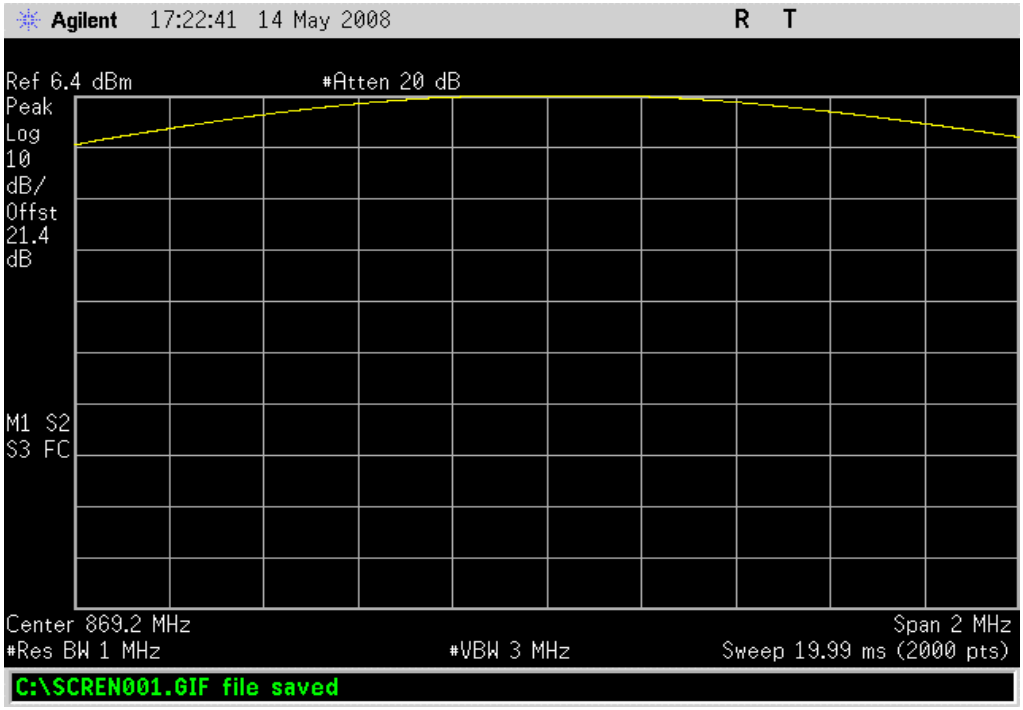
GPRS modulation, Mid power, Atten = 3, High channel, 893.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.1 kHz	**Limit:**	N/A



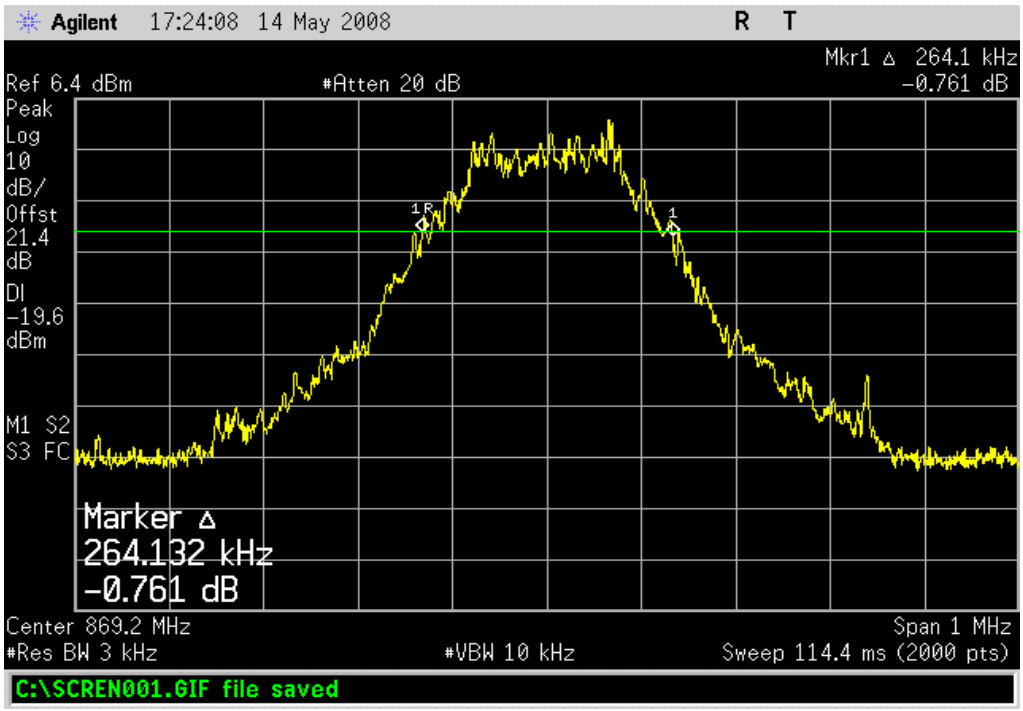
GPRS modulation, Mid power, Atten = 3, High channel, 893.8MHz, Band Edge					
Result:	Pass	**Value:**	-33.11 dBm	**Limit:**	≤ - 13 dBm



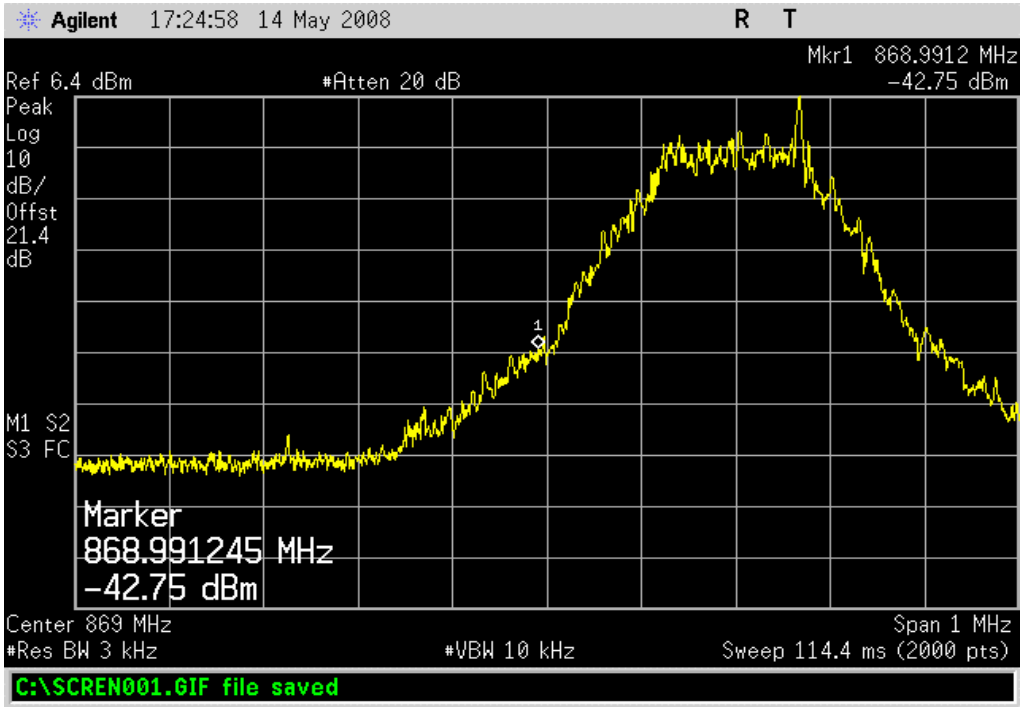
GPRS modulation, Low power, Atten = 6, Low channel, 869.2MHz, Reference Level Plot					
Result:	N/A	**Value:**	6.4 dBm	**Limit:**	N/A



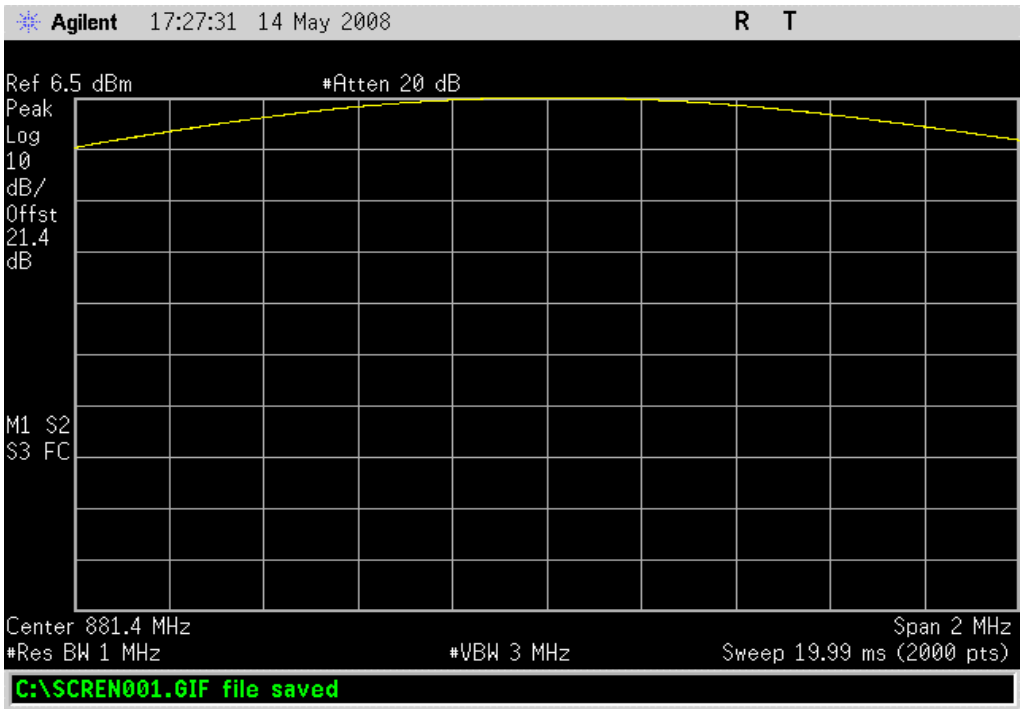
GPRS modulation, Low power, Atten = 6, Low channel, 869.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.1 kHz	**Limit:**	N/A



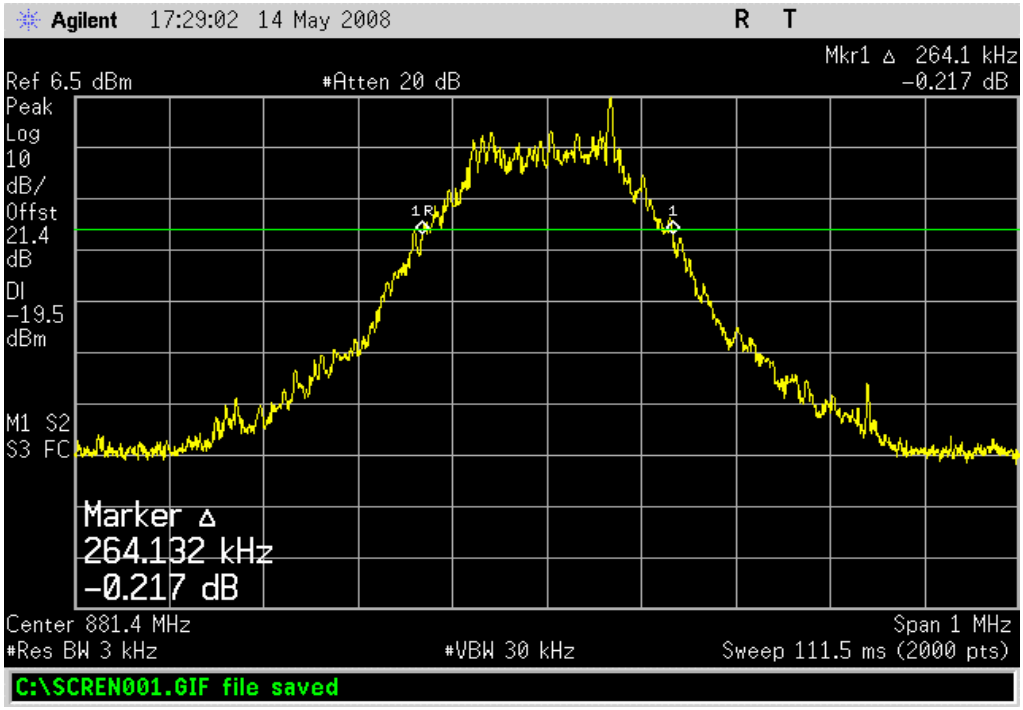
GPRS modulation, Low power, Atten = 6, Low channel, 869.2MHz, Band Edge					
Result:	Pass	**Value:**	-42.75 dBm	**Limit:**	≤ - 13 dBm



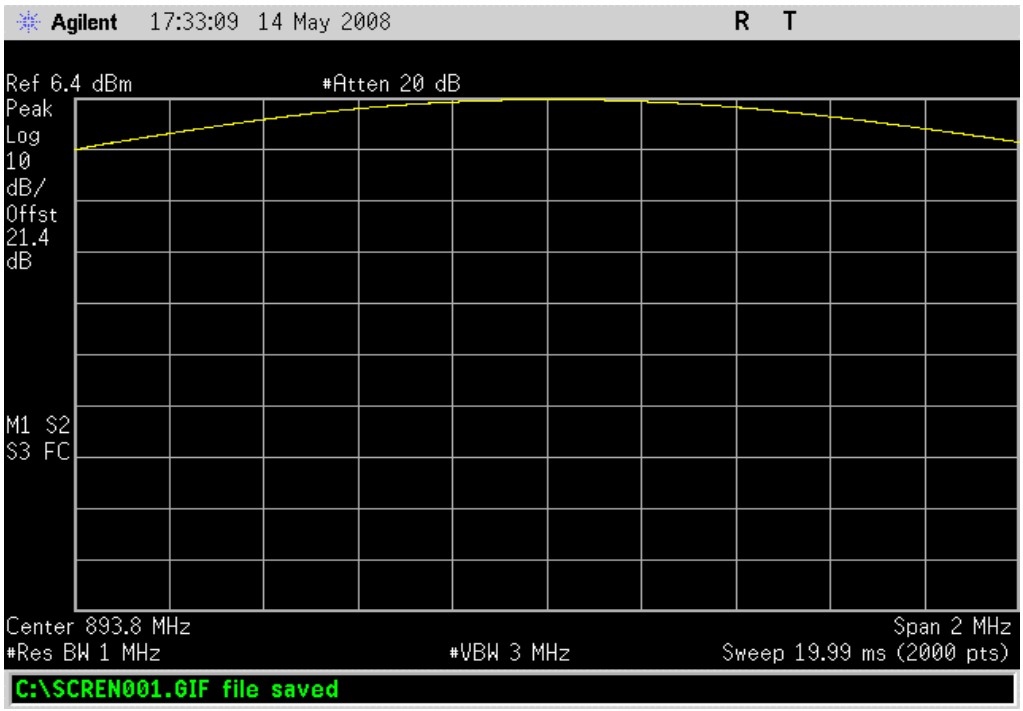
GPRS modulation, Low power, Atten = 6, Mid channel, 881.4MHz, Reference Level Plot					
Result:	N/A	**Value:**	6.5 dBm	**Limit:**	N/A



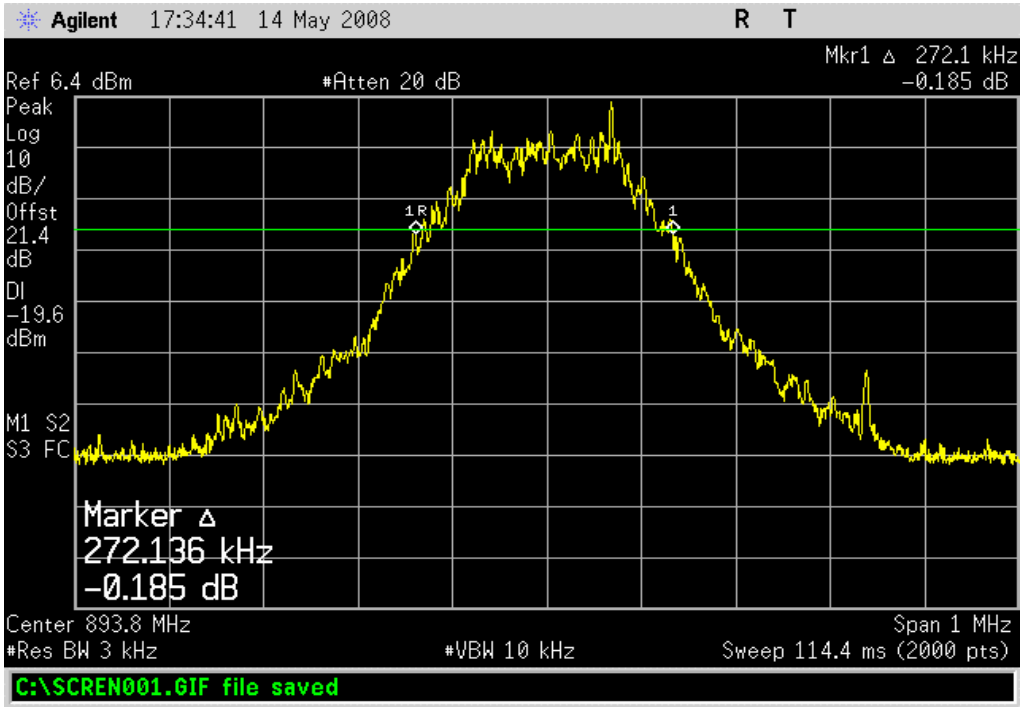
GPRS modulation, Low power, Atten = 6, Mid channel, 881.4MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.1 kHz	**Limit:**	N/A



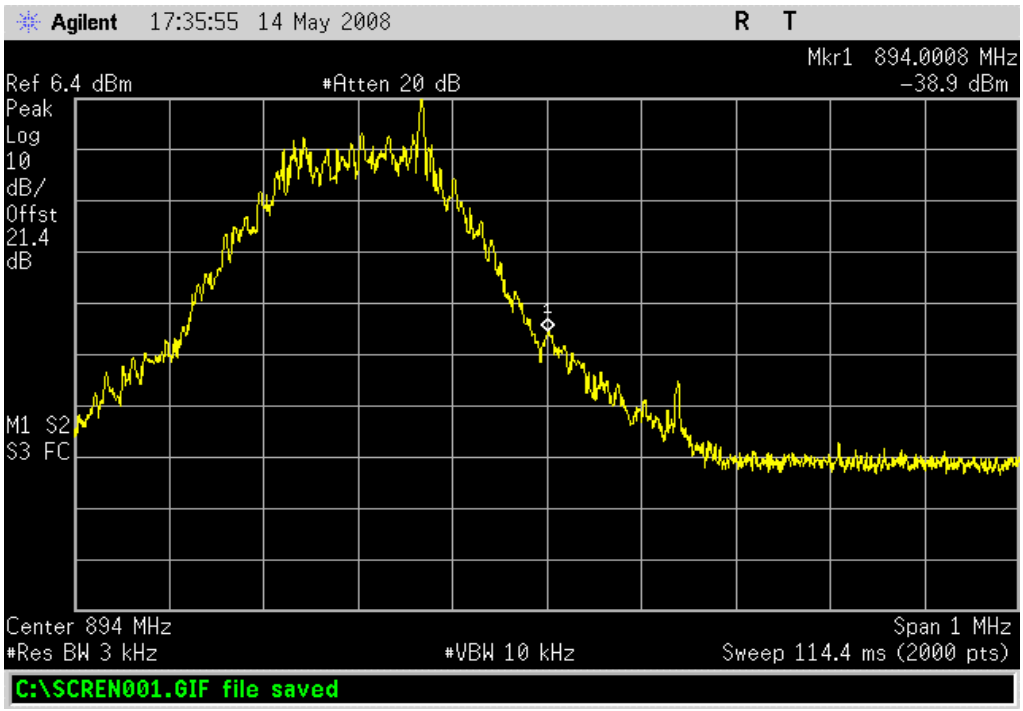
GPRS modulation, Low power, Atten = 6, High channel, 893.8MHz, Reference Level Plot					
Result:	N/A	**Value:**	6.4 dBm	**Limit:**	N/A

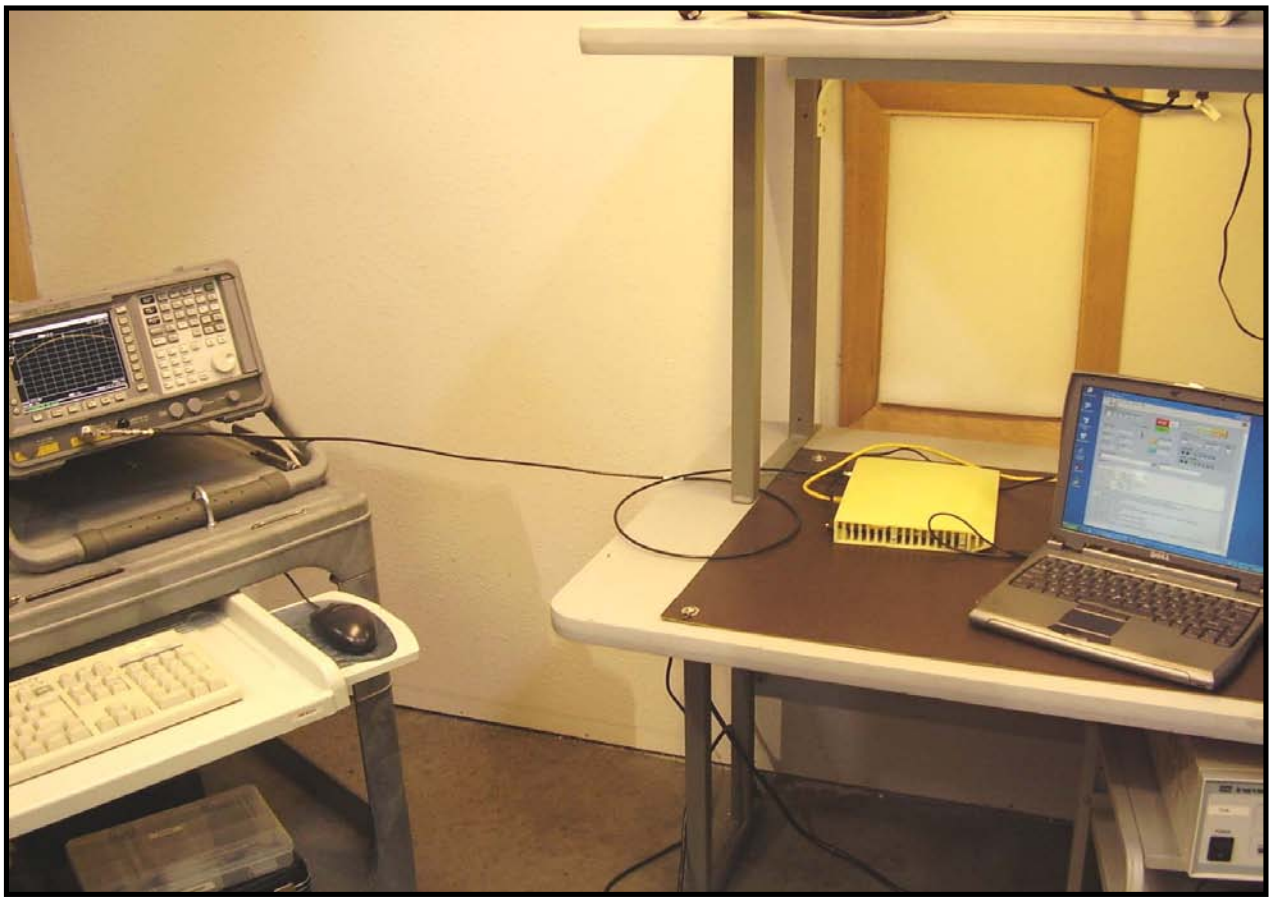


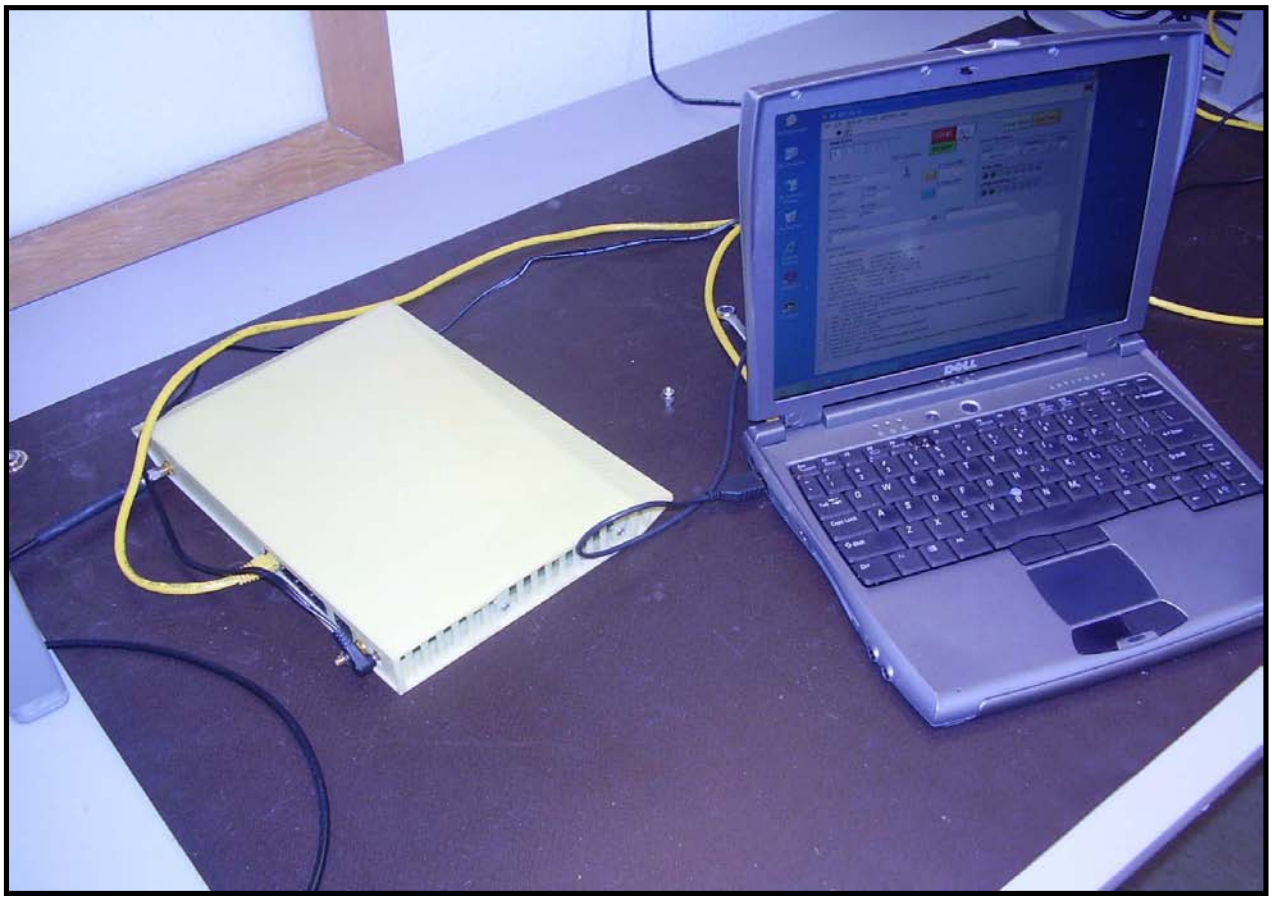
GPRS modulation, Low power, Atten = 6, High channel, 893.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	272.1 kHz	**Limit:**	N/A



GPRS modulation, Low power, Atten = 6, High channel, 893.8MHz, Band Edge					
Result:	Pass	**Value:**	-38.9 dBm	**Limit:**	≤ - 13 dBm







Occupied Bandwidth

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The 99% bandwidth was measured utilizing the analyzer's peak detector and measuring the carrier's 26 dB occupied bandwidth based on the peak output power level measured. A plot was taken to show the occupied bandwidth is contained within the allowable transmit band.

A direct connection was made between the EUT and a spectrum analyzer. At 3 kHz the spectrum analyzer's resolution bandwidth was sufficiently narrow to plot the actual bandwidth of the signal and not the filter response curve of the spectrum analyzer. The resolution bandwidth was approximately equal to 1% of the 20dB bandwidth and the video bandwidth was greater than or equal to the resolution bandwidth.

The occupied bandwidth was measured with the EUT configured in the modes called out in the data sheets.

NORTHWEST EMC

Occupied Bandwidth

XMit 2007.06.13

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	07/23/08
Customer:	Radioframe Networks, Inc.	Temperature:	23.39
Attendees:	Nha Tran	Humidity:	34%
Project:	None	Barometric Pres.:	1023.5mb
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

PCS Band

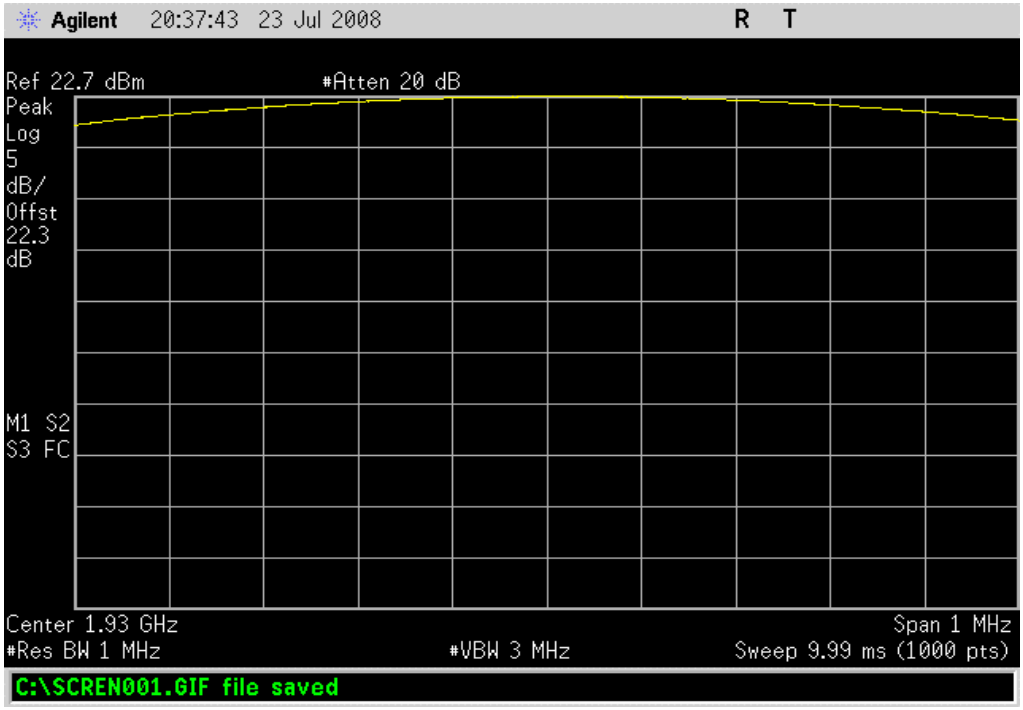
DEVIATIONS FROM TEST STANDARD

No Deviations

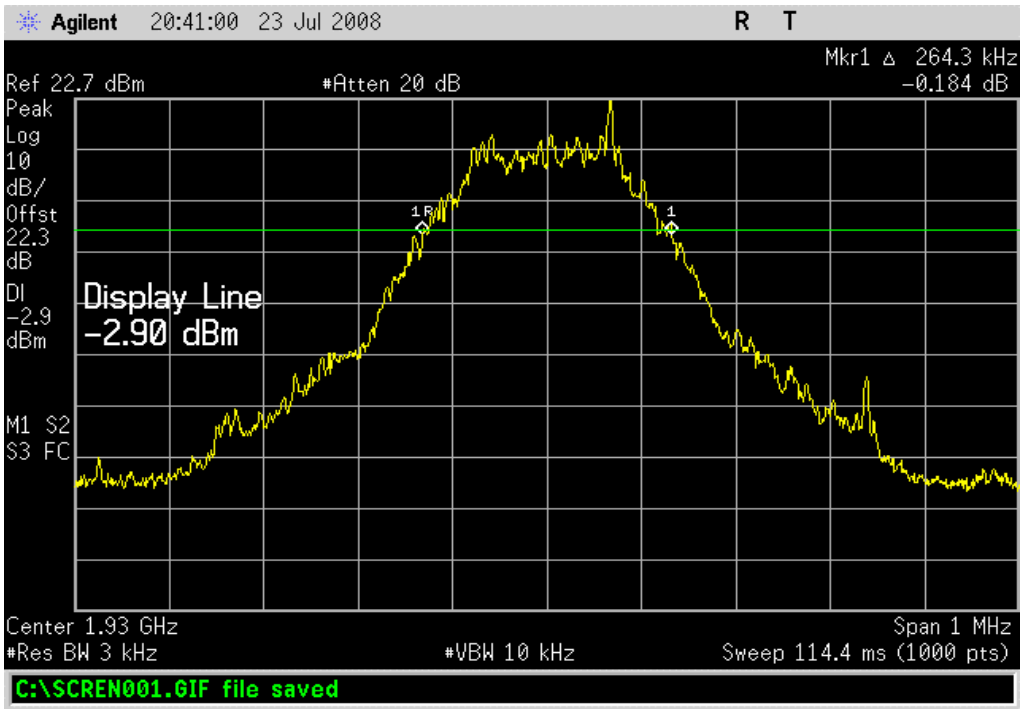
Configuration #	2	Signature

			Value	Limit	Results
GSM modulation					
	High power, Atten = 0				
		Low channel, 1930.2MHz			
		Reference level plot	22.7 dBm	N/A	N/A
		Occupied Bandwidth	264.3 kHz	N/A	N/A
		Band Edge	-26.96 dBm	≤ -13 dBm	Pass
		Mid channel, 1960MHz			
		Reference level plot	22.5 dBm	N/A	N/A
		Occupied Bandwidth	264.3 kHz	N/A	N/A
		High channel, 1989.8MHz			
		Reference level plot	22.6 dBm	N/A	N/A
		Occupied Bandwidth	272.3 kHz	N/A	N/A
		Band Edge	-23.24 dBm	≤ -13 dBm	Pass
	Mid power, Atten = 3				
		Low channel, 1930.2MHz			
		Reference level plot	14.6 dBm	N/A	N/A
		Occupied Bandwidth	264.6 kHz	N/A	N/A
		Band Edge	-33.54 dBm	≤ -13 dBm	Pass
		Mid channel, 1960MHz			
		Reference level plot	14.9 dBm	N/A	N/A
		Occupied Bandwidth	263.1 kHz	N/A	N/A
		High channel, 1989.8MHz			
		Reference level plot	14.5 dBm	N/A	N/A
		Occupied Bandwidth	264.1 kHz	N/A	N/A
		Band Edge	-29.82 dBm	≤ -13 dBm	Pass
	Low power, Atten = 6				
		Low channel, 1930.2MHz			
		Reference level plot	8.3 dBm	N/A	N/A
		Occupied Bandwidth	264.6 kHz	N/A	N/A
		Band Edge	-39.9 dBm	≤ -13 dBm	Pass
		Mid channel, 1960MHz			
		Reference level plot	8.9 dBm	N/A	N/A
		Occupied Bandwidth	264.6 kHz	N/A	N/A
		High channel, 1989.8MHz			
		Reference level plot	8.6 dBm	N/A	N/A
		Occupied Bandwidth	264.1 kHz	N/A	N/A
		Band Edge	-36.02 dBm	≤ -13 dBm	Pass
GPRS modulation					
	High power, Atten = 0				
		Low channel, 1930.2MHz			
		Reference level plot	22.5 dBm	N/A	N/A
		Occupied Bandwidth	263.6 kHz	N/A	N/A
		Band Edge	-26.96 dBm	≤ -13 dBm	Pass
		Mid channel, 1960MHz			
		Reference level plot	22.34 dBm	N/A	N/A
		Occupied Bandwidth	274.3 kHz	N/A	N/A
		High channel, 1989.8MHz			
		Reference level plot	22.4 dBm	N/A	N/A
		Occupied Bandwidth	272.3 kHz	N/A	N/A
		Band Edge	-23.2 dBm	≤ -13 dBm	Pass
	Mid power, Atten = 3				
		Low channel, 1930.2MHz			
		Reference level plot	14.5 dBm	N/A	N/A
		Occupied Bandwidth	264.6 kHz	N/A	N/A
		Band Edge	-33.73 dBm	≤ -13 dBm	Pass
		Mid channel, 1960MHz			
		Reference level plot	15.0 dBm	N/A	N/A
		Occupied Bandwidth	264.3 kHz	N/A	N/A
		High channel, 1989.8MHz			
		Reference level plot	14.5 dBm	N/A	N/A
		Occupied Bandwidth	264.6 kHz	N/A	N/A
		Band Edge	-29.88 dBm	≤ -13 dBm	Pass
	Low power, Atten = 6				
		Low channel, 1930.2MHz			
		Reference level plot	8.2 dBm	N/A	N/A
		Occupied Bandwidth	273.1 kHz	N/A	N/A
		Band Edge	-39.58 dBm	≤ -13 dBm	Pass
		Mid channel, 1960MHz			
		Reference level plot	8.9 dBm	N/A	N/A
		Occupied Bandwidth	263.6 kHz	N/A	N/A
		High channel, 1989.8MHz			
		Reference level plot	8.5 dBm	N/A	N/A
		Occupied Bandwidth	273.1 kHz	N/A	N/A
		Band Edge	-36.05 dBm	≤ -13 dBm	Pass

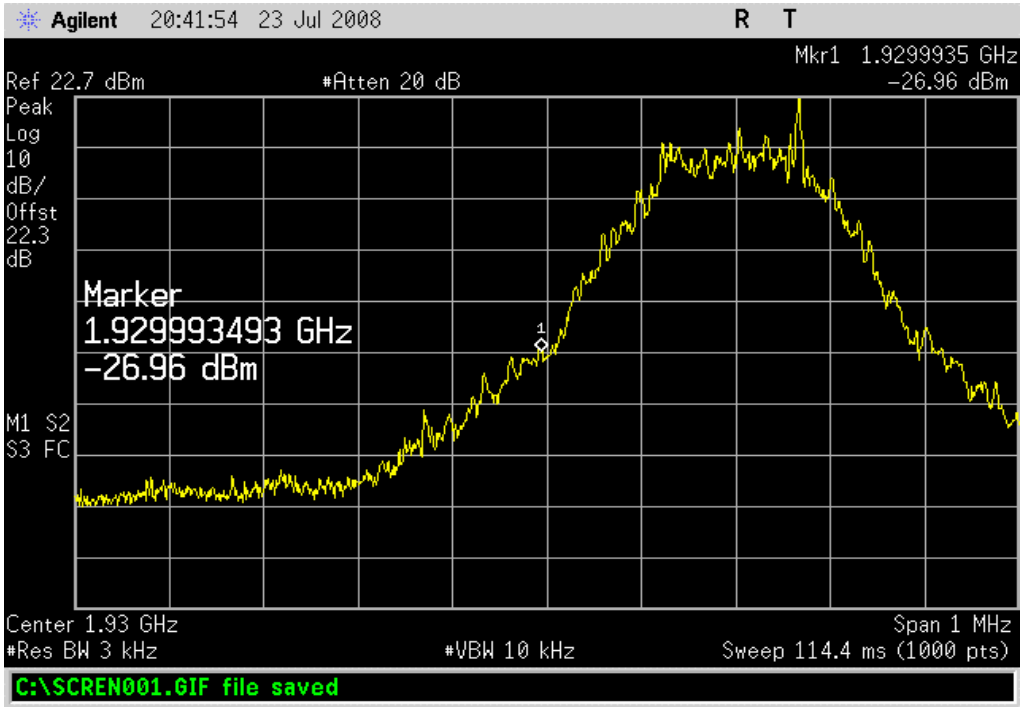
GSM modulation, High power, Atten = 0, Low channel, 1930.2MHz, Reference level plot					
Result:	N/A	**Value:**	22.7 dBm	**Limit:**	N/A



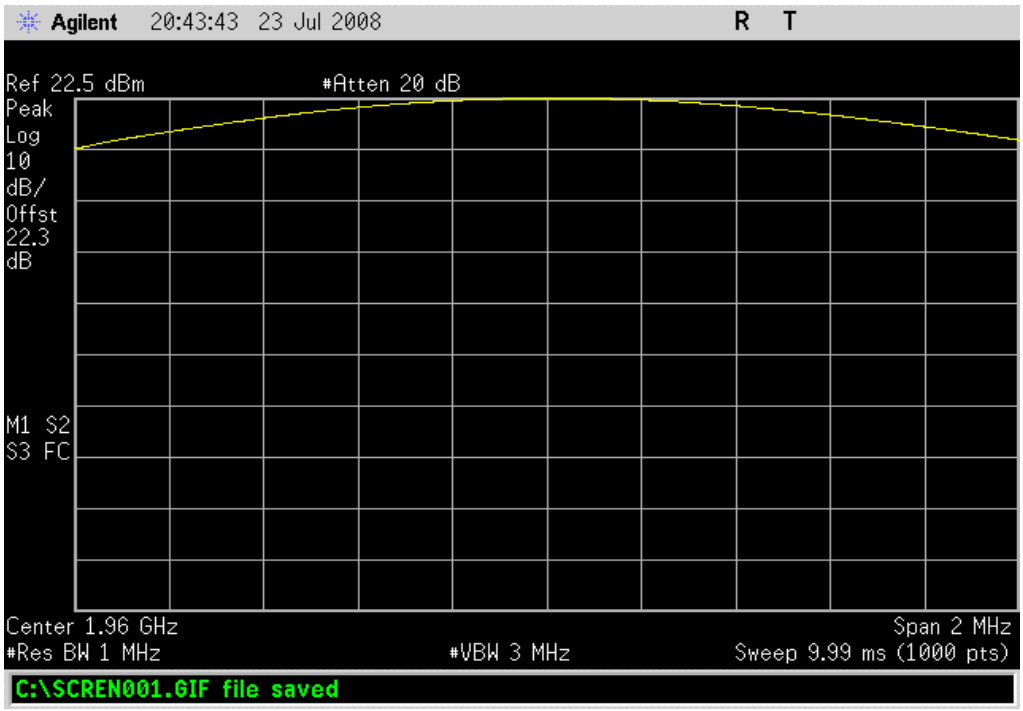
GSM modulation, High power, Atten = 0, Low channel, 1930.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.3 kHz	**Limit:**	N/A



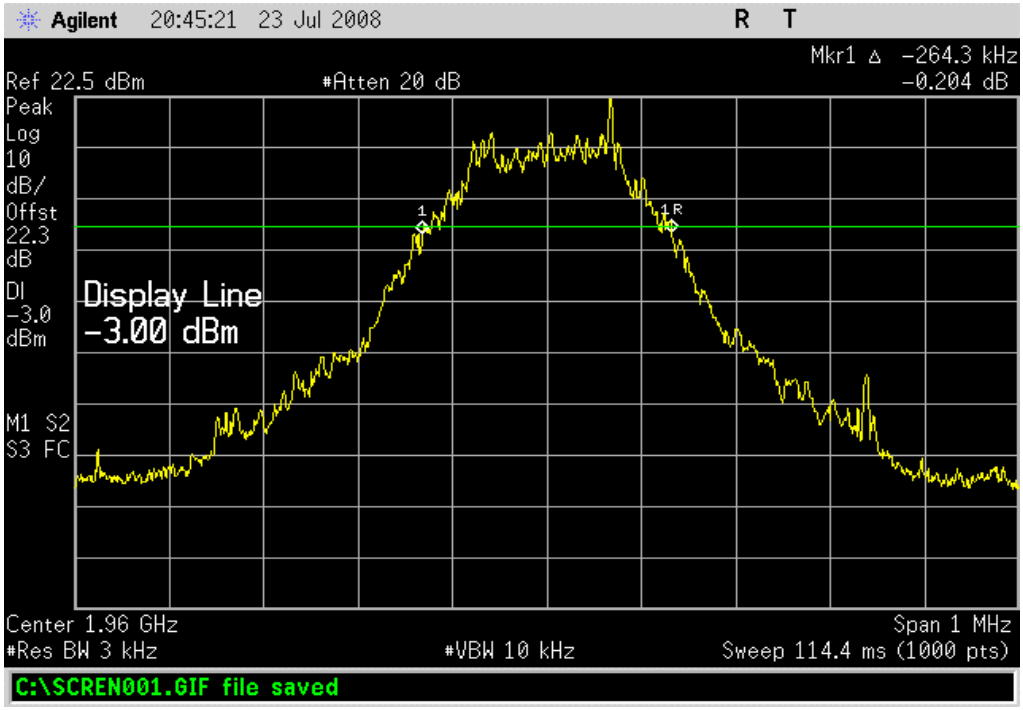
GSM modulation, High power, Atten = 0, Low channel, 1930.2MHz, Band Edge					
Result:	Pass	**Value:**	-26.96 dBm	**Limit:**	≤ -13 dBm



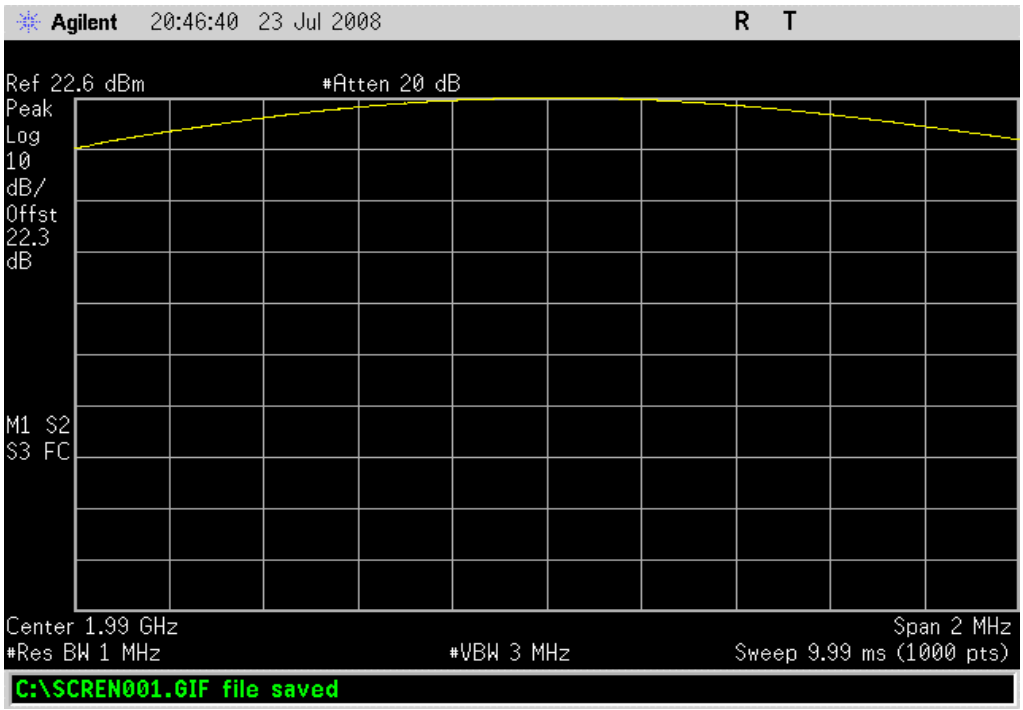
GSM modulation, High power, Atten = 0, Mid channel, 1960MHz, Reference level plot					
Result:	N/A	**Value:**	22.5 dBm	**Limit:**	N/A



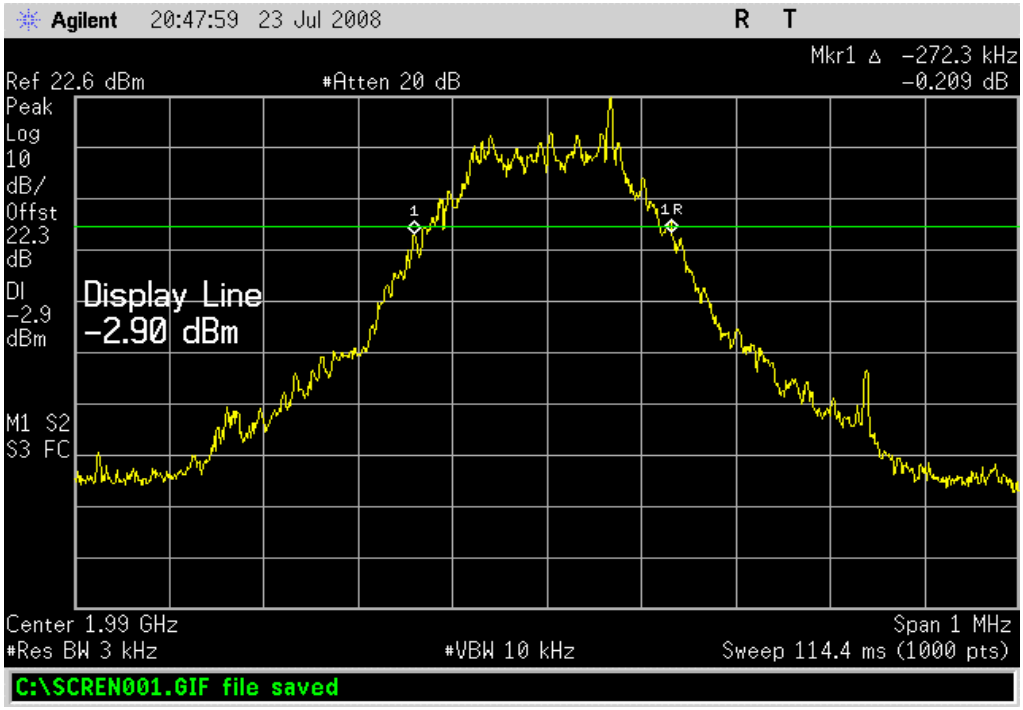
GSM modulation, High power, Atten = 0, Mid channel, 1960MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.3 kHz	**Limit:**	N/A



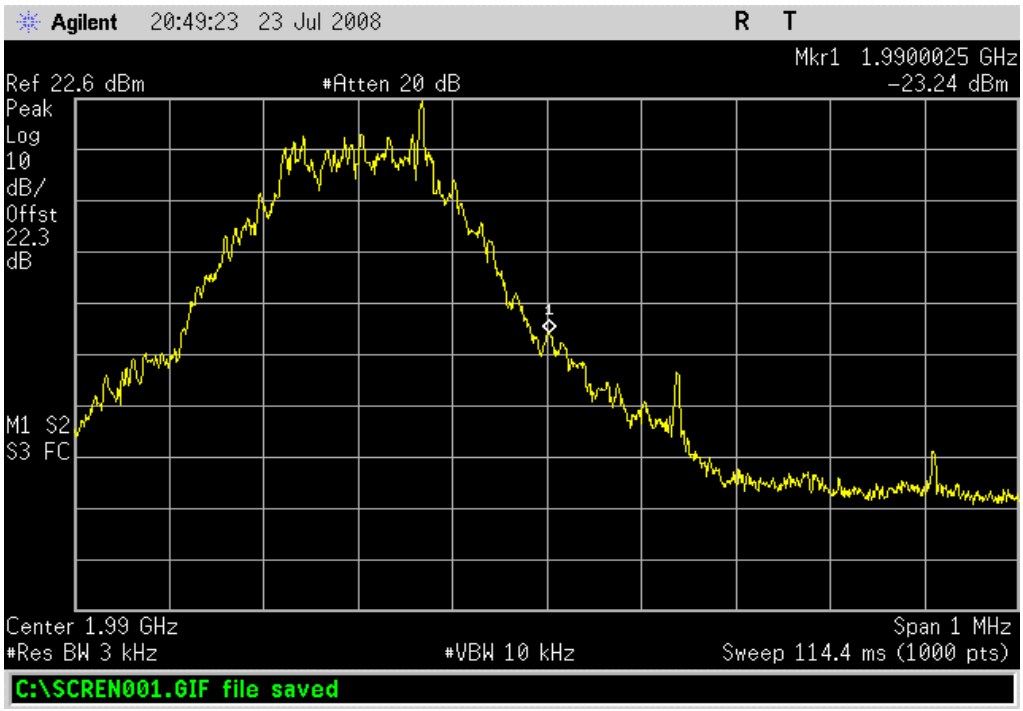
GSM modulation, High power, Atten = 0, High channel, 1989.8MHz, Reference level plot					
Result:	N/A	**Value:**	22.6 dBm	**Limit:**	N/A



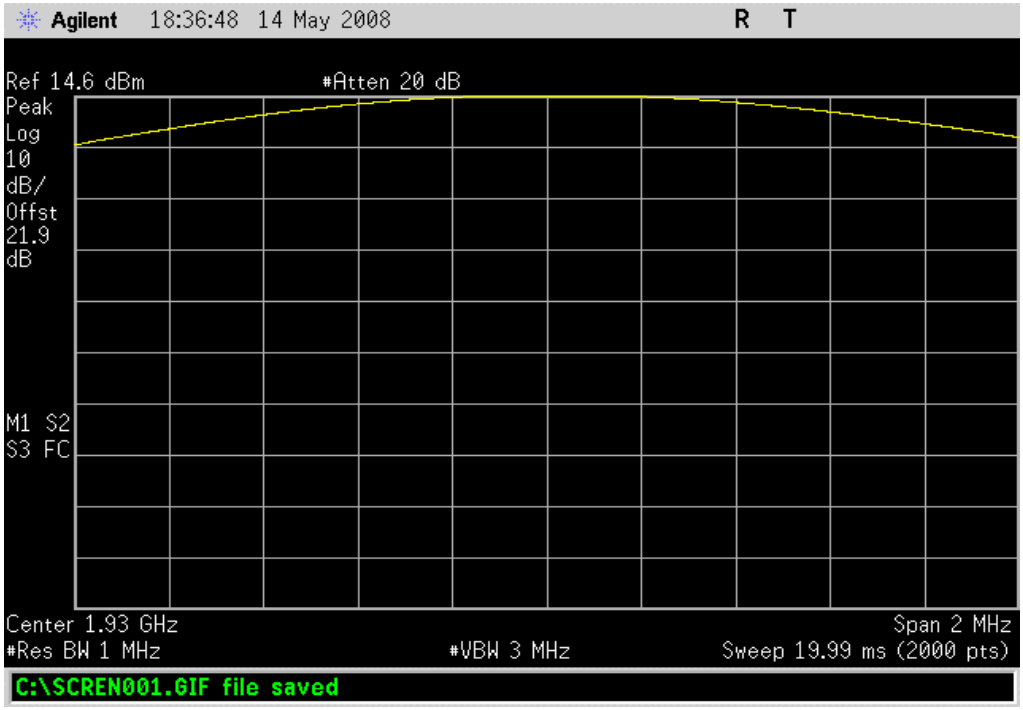
GSM modulation, High power, Atten = 0, High channel, 1989.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	272.3 kHz	**Limit:**	N/A



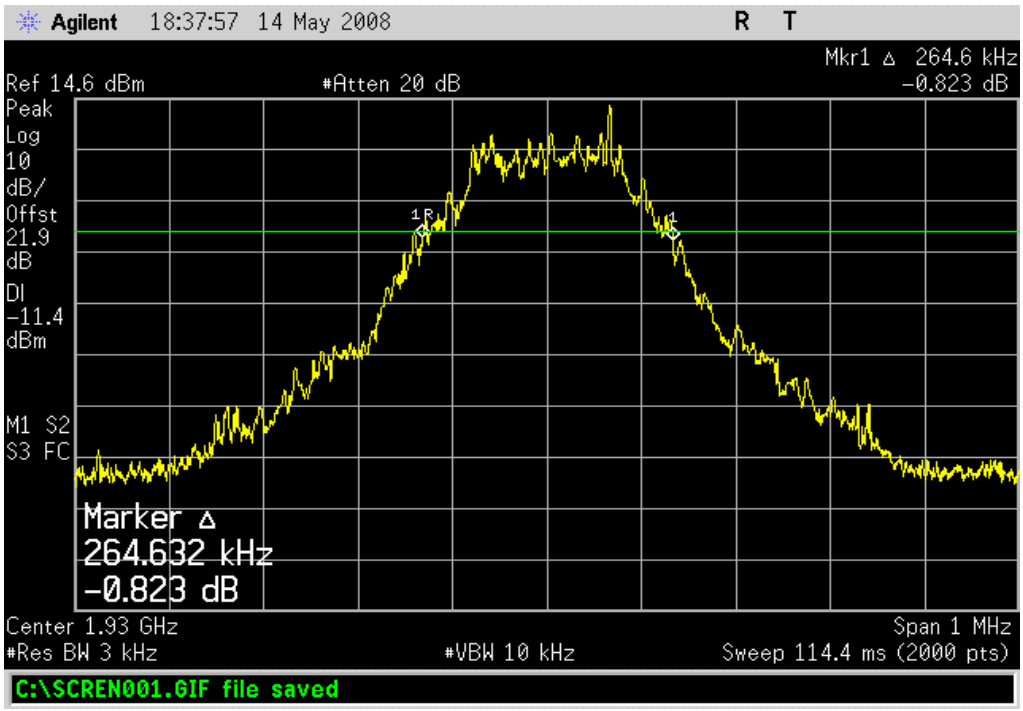
GSM modulation, High power, Atten = 0, High channel, 1989.8MHz, Band Edge					
Result:	Pass	**Value:**	-23.24 dBm	**Limit:**	≤ -13 dBm



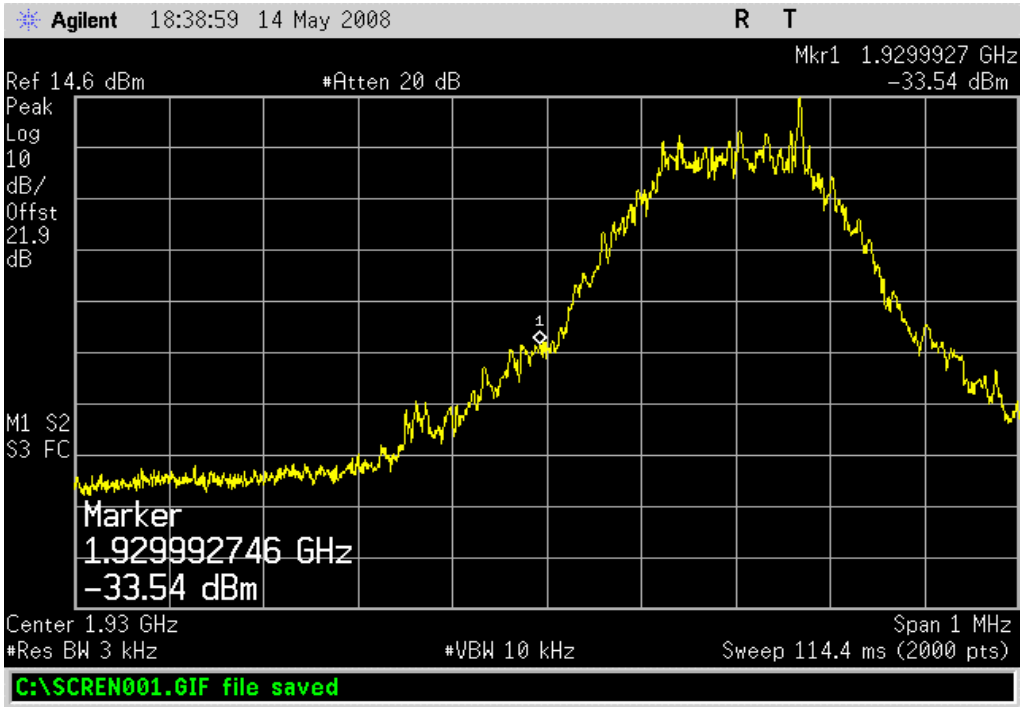
GSM modulation, Mid power, Atten = 3, Low channel, 1930.2MHz, Reference level plot					
Result:	N/A	**Value:**	14.6 dBm	**Limit:**	N/A



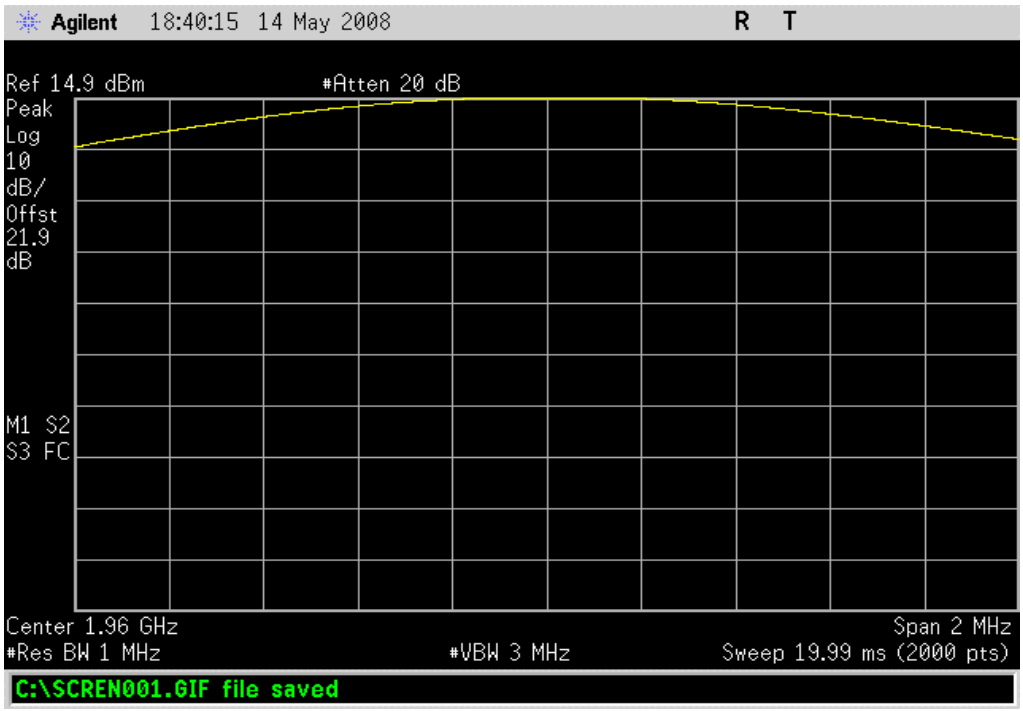
GSM modulation, Mid power, Atten = 3, Low channel, 1930.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.6 kHz	**Limit:**	N/A



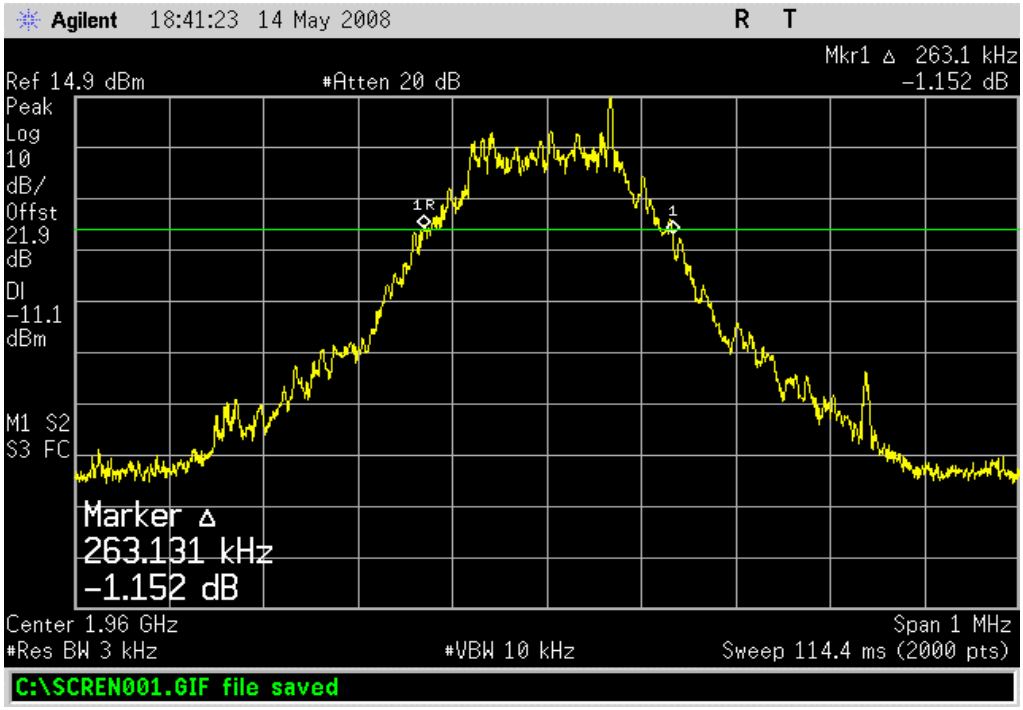
GSM modulation, Mid power, Atten = 3, Low channel, 1930.2MHz, Band Edge					
Result:	Pass	**Value:**	-33.54 dBm	**Limit:**	≤ -13 dBm



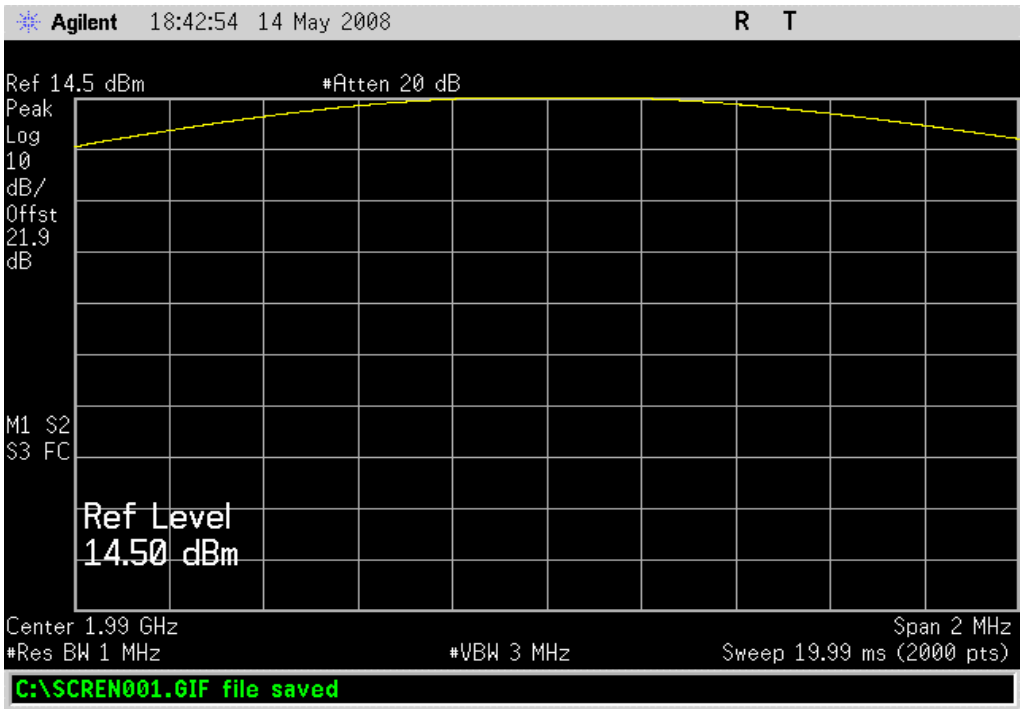
GSM modulation, Mid power, Atten = 3, Mid channel, 1960MHz, Reference level plot					
Result:	N/A	**Value:**	14.9 dBm	**Limit:**	N/A



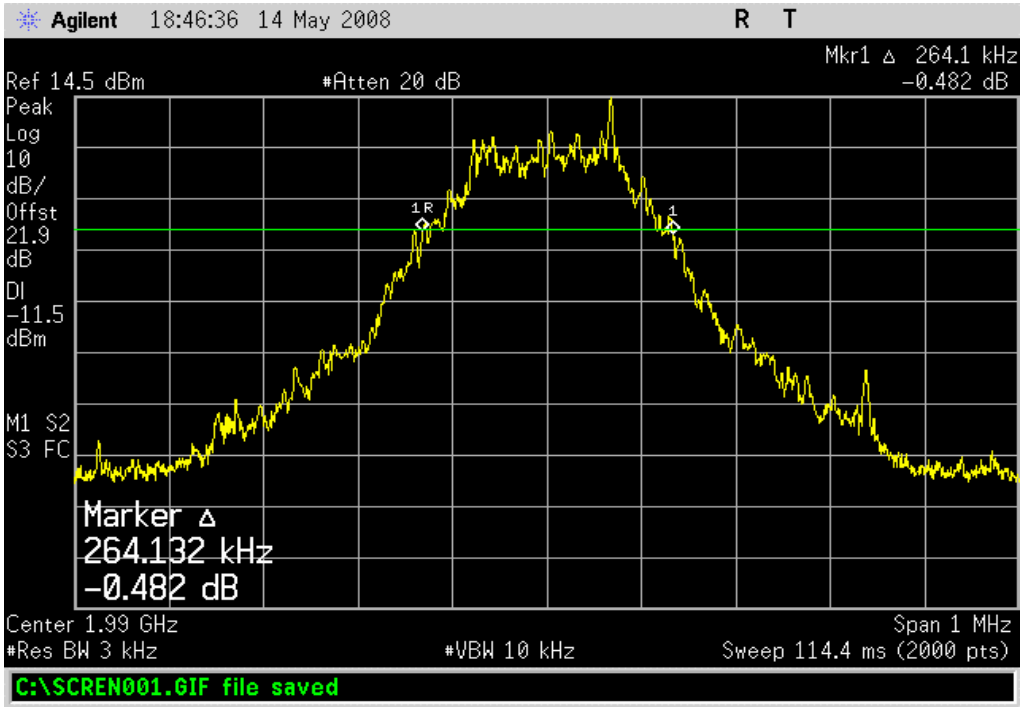
GSM modulation, Mid power, Atten = 3, Mid channel, 1960MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.1 kHz	**Limit:**	N/A



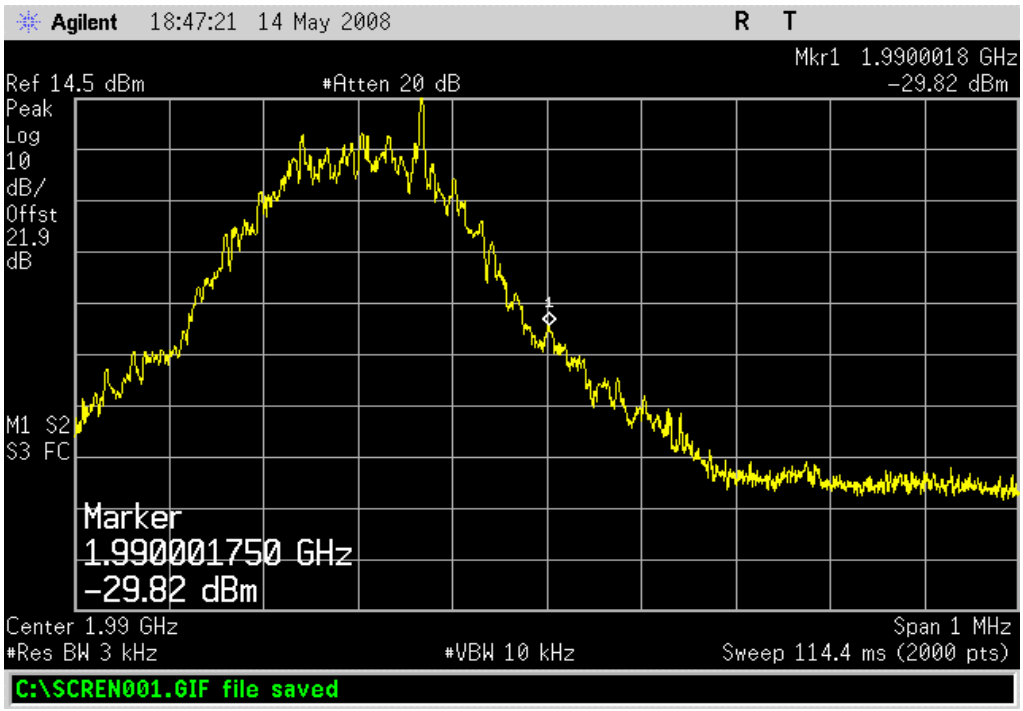
GSM modulation, Mid power, Atten = 3, High channel, 1989.8MHz, Reference level plot					
Result:	N/A	**Value:**	14.5 dBm	**Limit:**	N/A



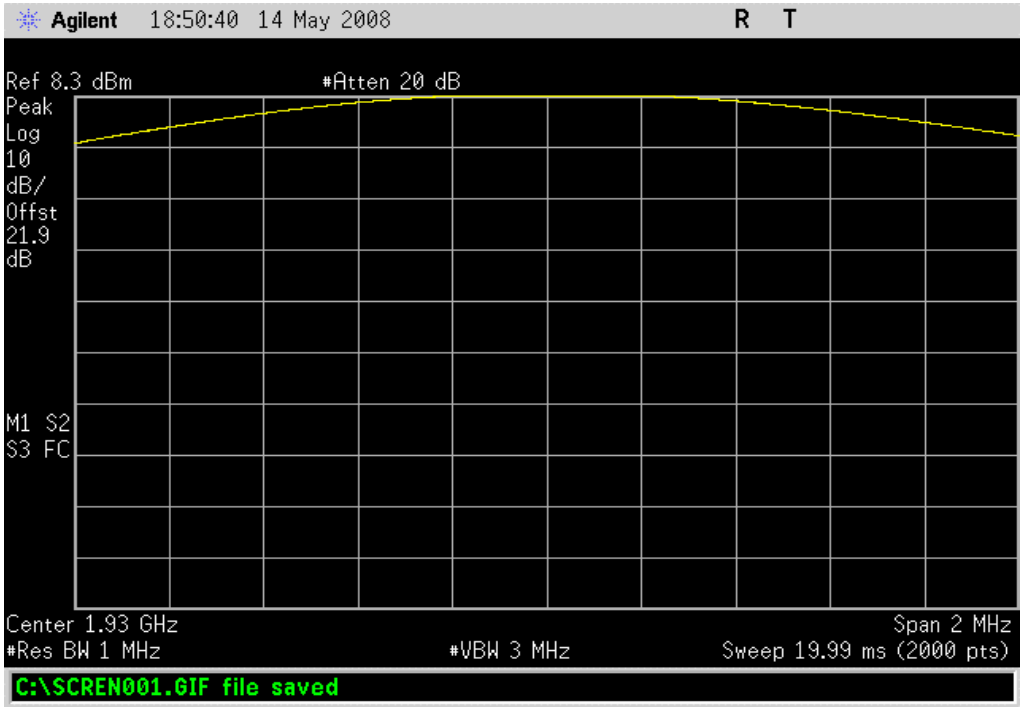
GSM modulation, Mid power, Atten = 3, High channel, 1989.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.1 kHz	**Limit:**	N/A



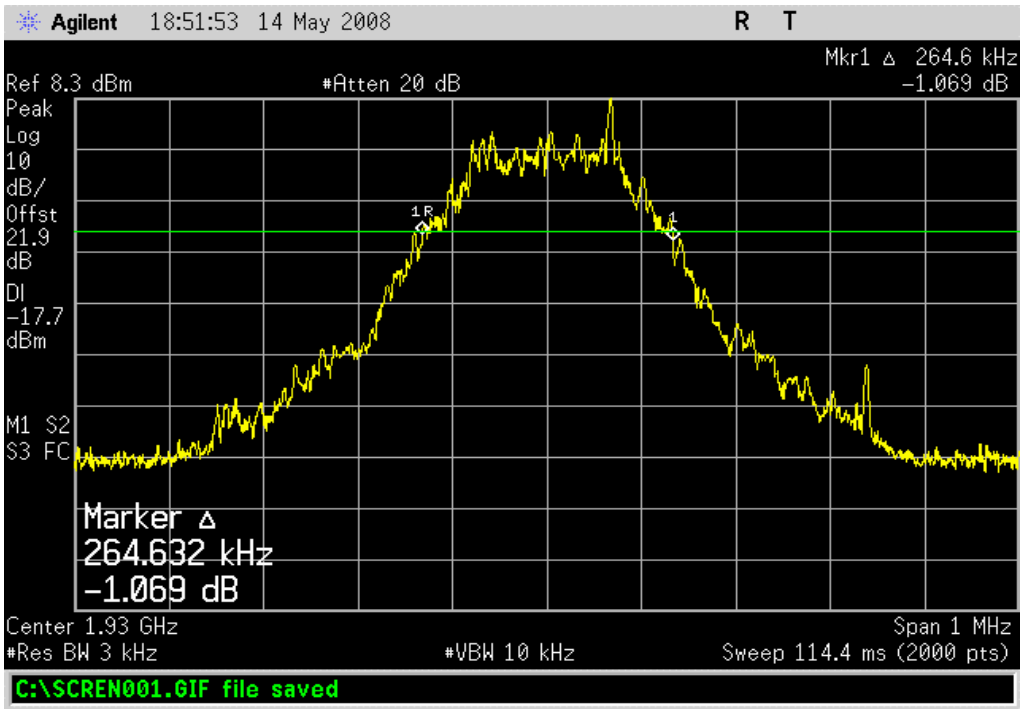
GSM modulation, Mid power, Atten = 3, High channel, 1989.8MHz, Band Edge					
Result:	Pass	**Value:**	-29.82 dBm	**Limit:**	≤ -13 dBm



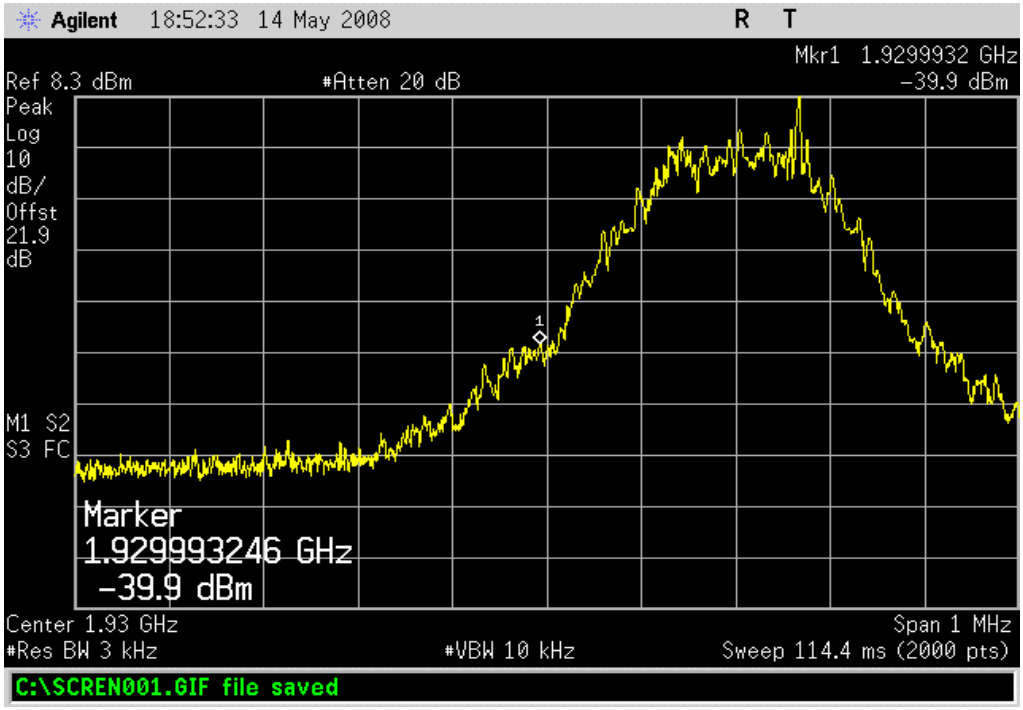
GSM modulation, Low power, Atten = 6, Low channel, 1930.2MHz, Reference level plot					
Result:	N/A	**Value:**	8.3 dBm	**Limit:**	N/A



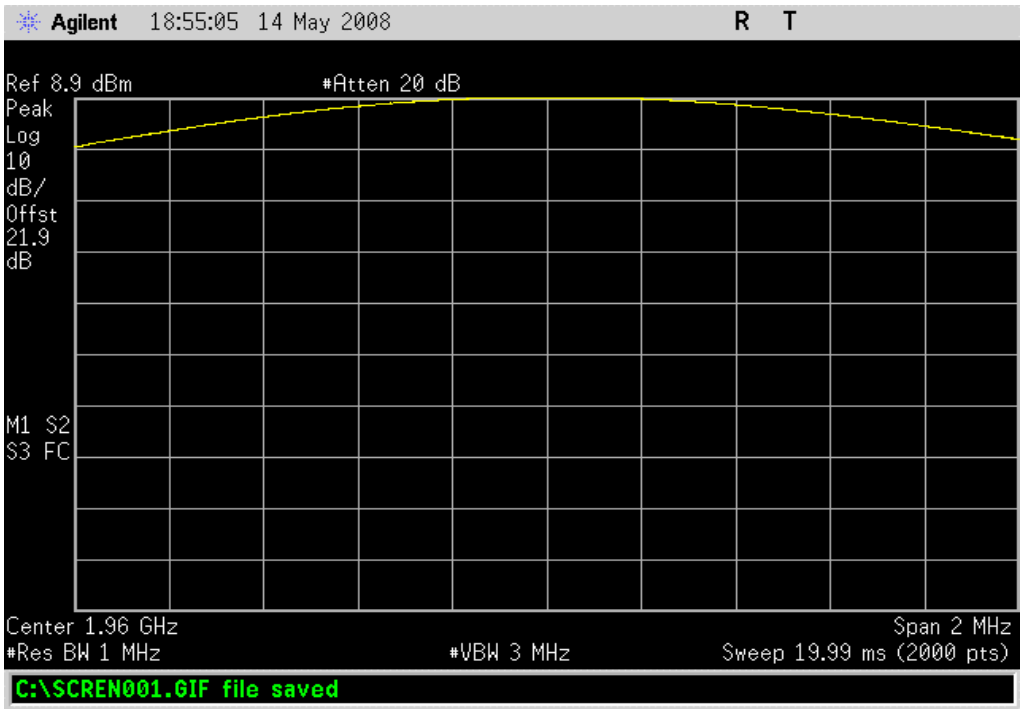
GSM modulation, Low power, Atten = 6, Low channel, 1930.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.6 kHz	**Limit:**	N/A



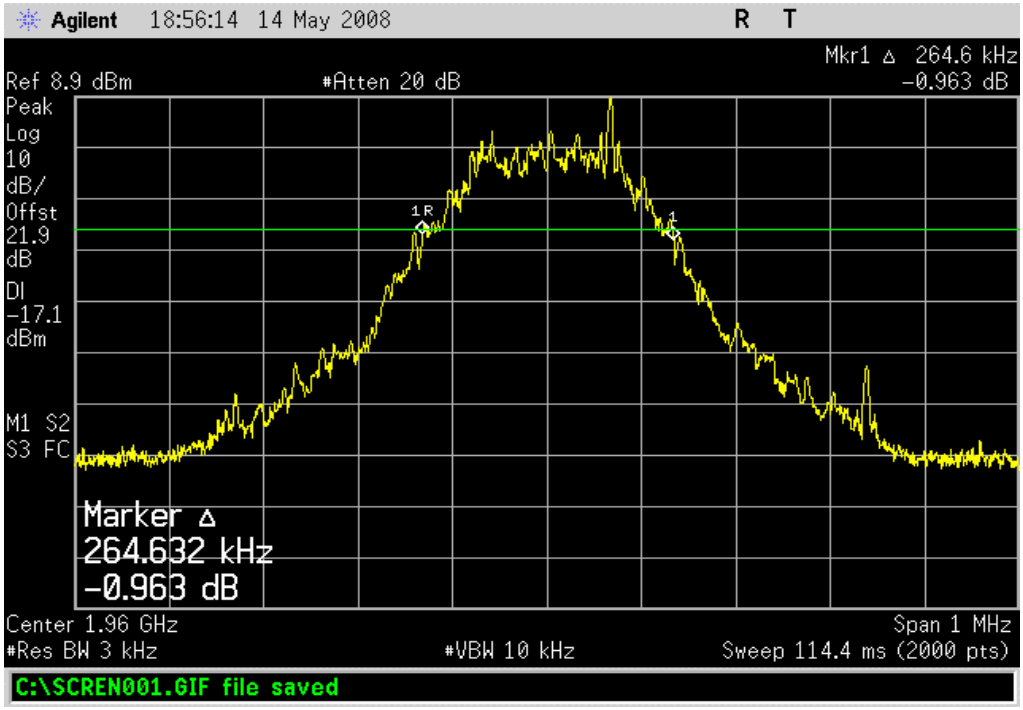
GSM modulation, Low power, Atten = 6, Low channel, 1930.2MHz, Band Edge					
Result:	Pass	**Value:**	-39.9 dBm	**Limit:**	≤ -13 dBm



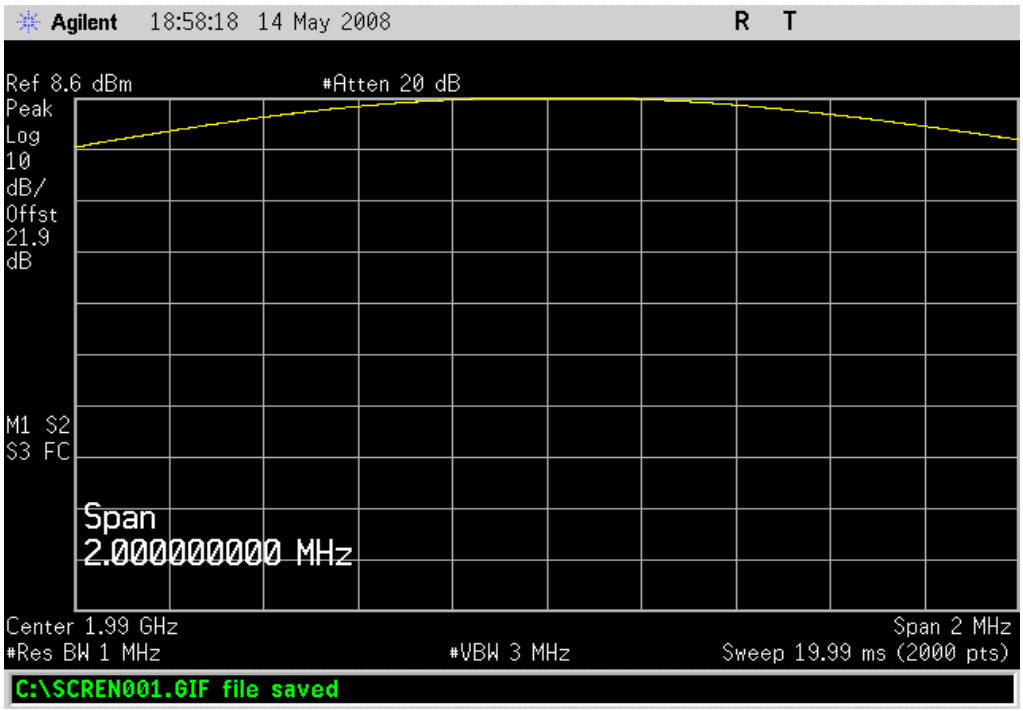
GSM modulation, Low power, Atten = 6, Mid channel, 1960MHz, Reference level plot					
Result:	N/A	**Value:**	8.9 dBm	**Limit:**	N/A



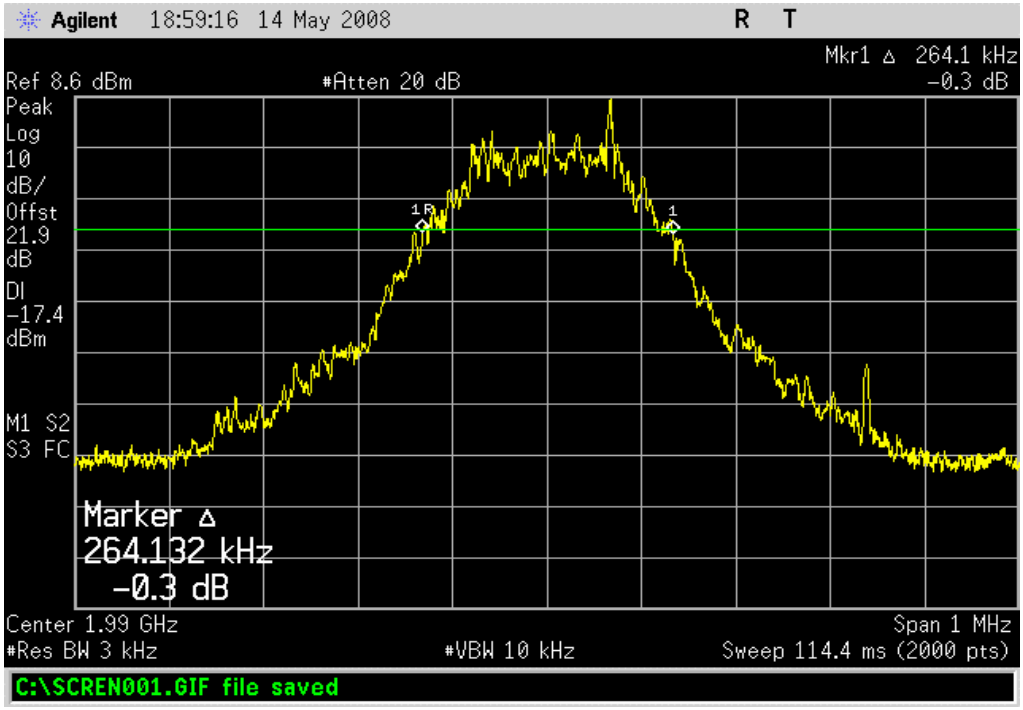
GSM modulation, Low power, Atten = 6, Mid channel, 1960MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.6 kHz	**Limit:**	N/A



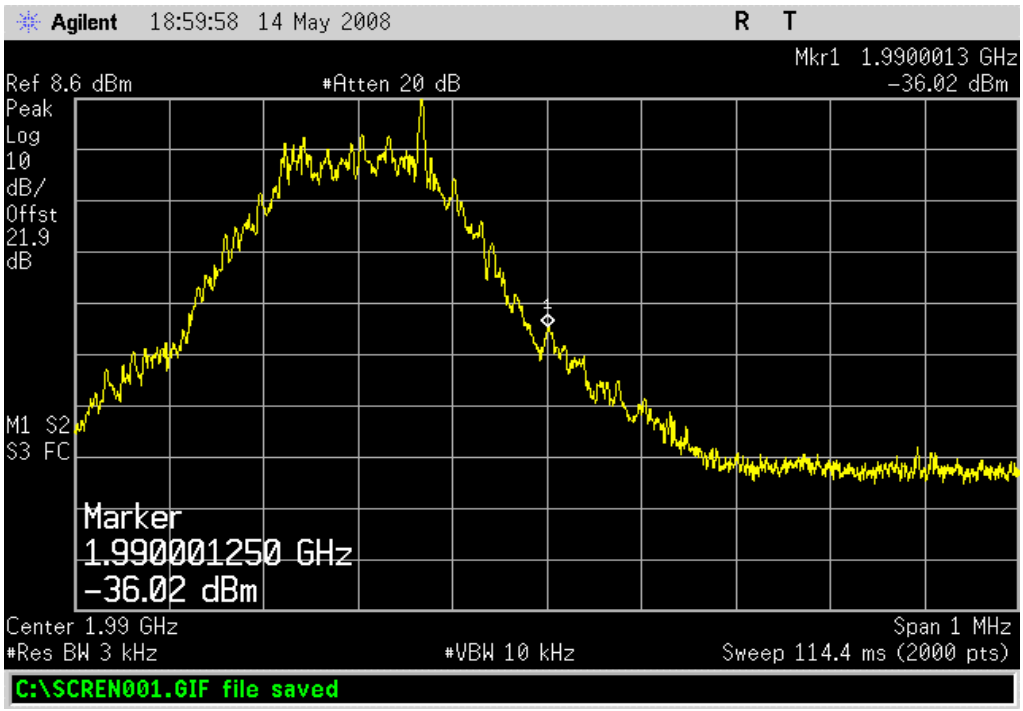
GSM modulation, Low power, Atten = 6, High channel, 1989.8MHz, Reference level plot					
Result:	N/A	**Value:**	8.6 dBm	**Limit:**	N/A



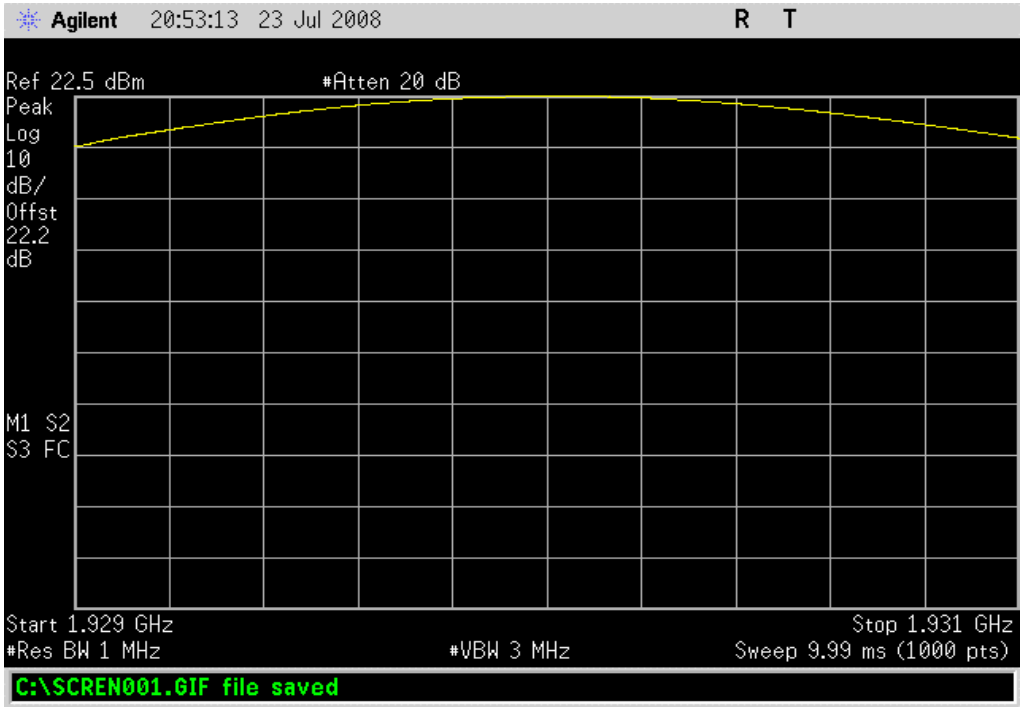
GSM modulation, Low power, Atten = 6, High channel, 1989.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.1 kHz	**Limit:**	N/A



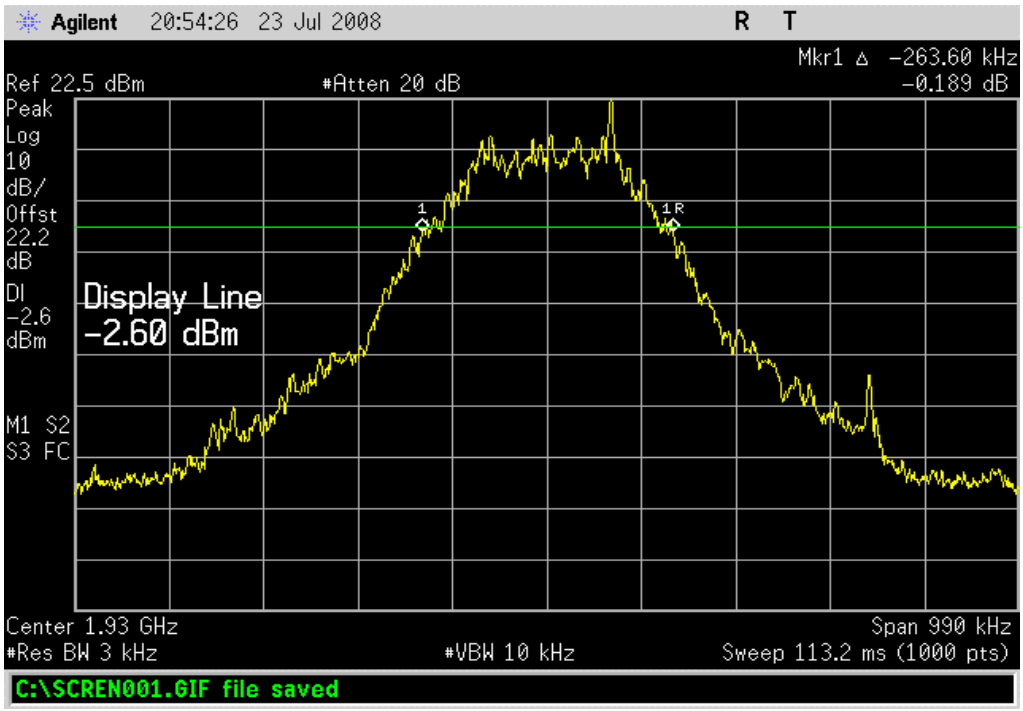
GSM modulation, Low power, Atten = 6, High channel, 1989.8MHz, Band Edge					
Result:	Pass	**Value:**	-36.02 dBm	**Limit:**	≤ -13 dBm



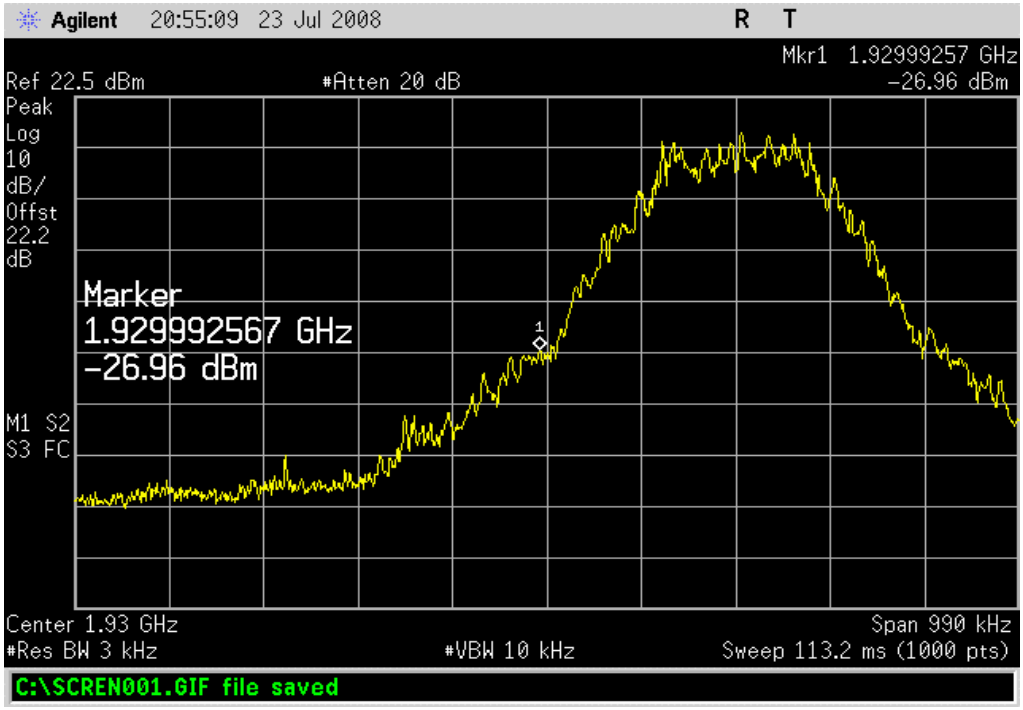
GPRS modulation, High power, Atten = 0, Low channel, 1930.2MHz, Reference level plot					
Result:	N/A	**Value:**	22.5 dBm	**Limit:**	N/A



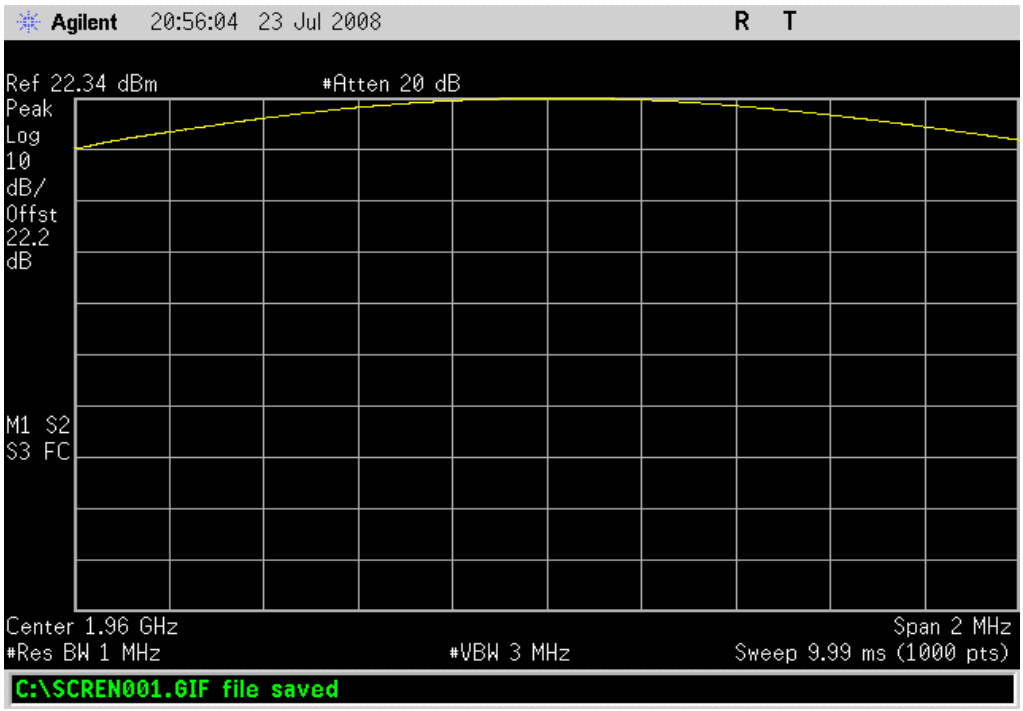
GPRS modulation, High power, Atten = 0, Low channel, 1930.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.6 kHz	**Limit:**	N/A



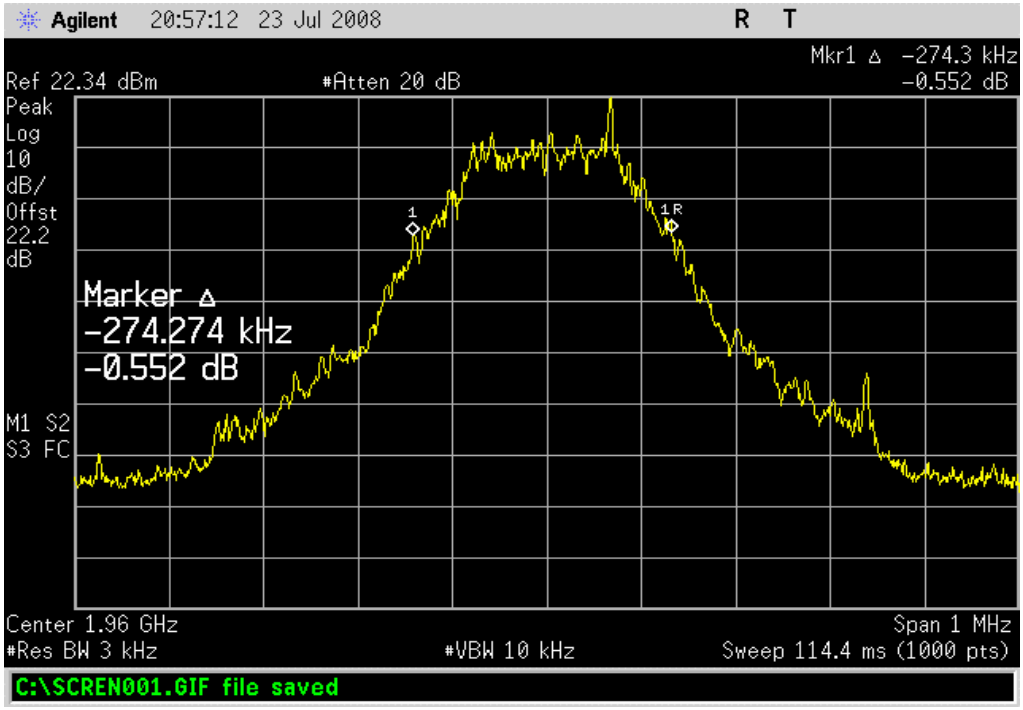
GPRS modulation, High power, Atten = 0, Low channel, 1930.2MHz, Band Edge					
Result:	Pass	**Value:**	-26.96 dBm	**Limit:**	≤ -13 dBm



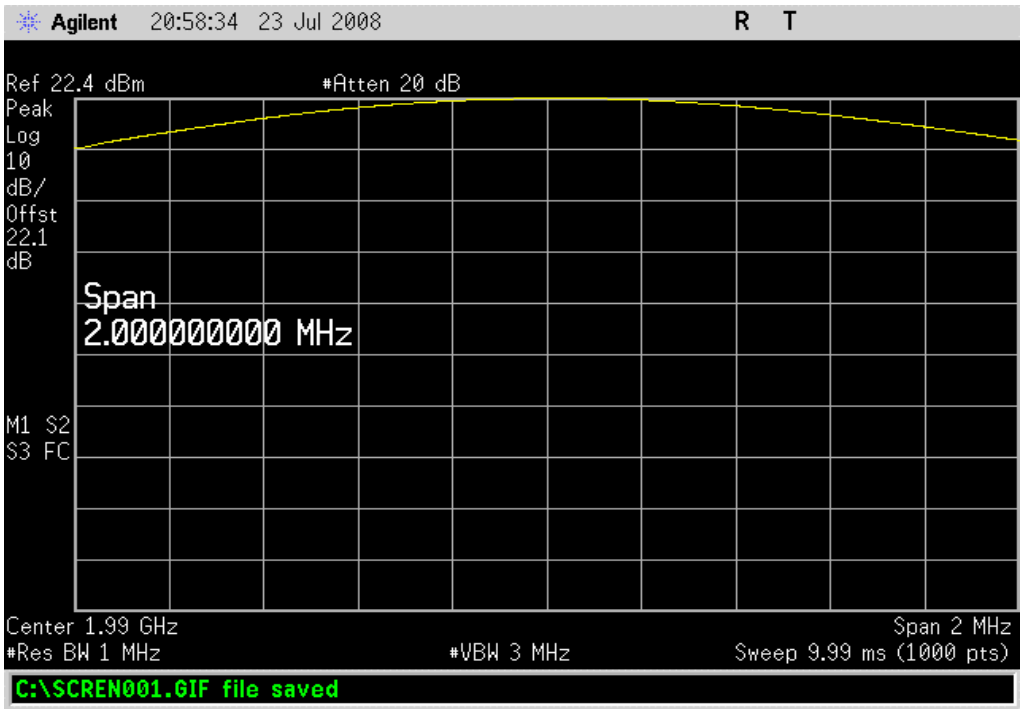
GPRS modulation, High power, Atten = 0, Mid channel, 1960MHz, Reference level plot					
Result:	N/A	**Value:**	22.34 dBm	**Limit:**	N/A



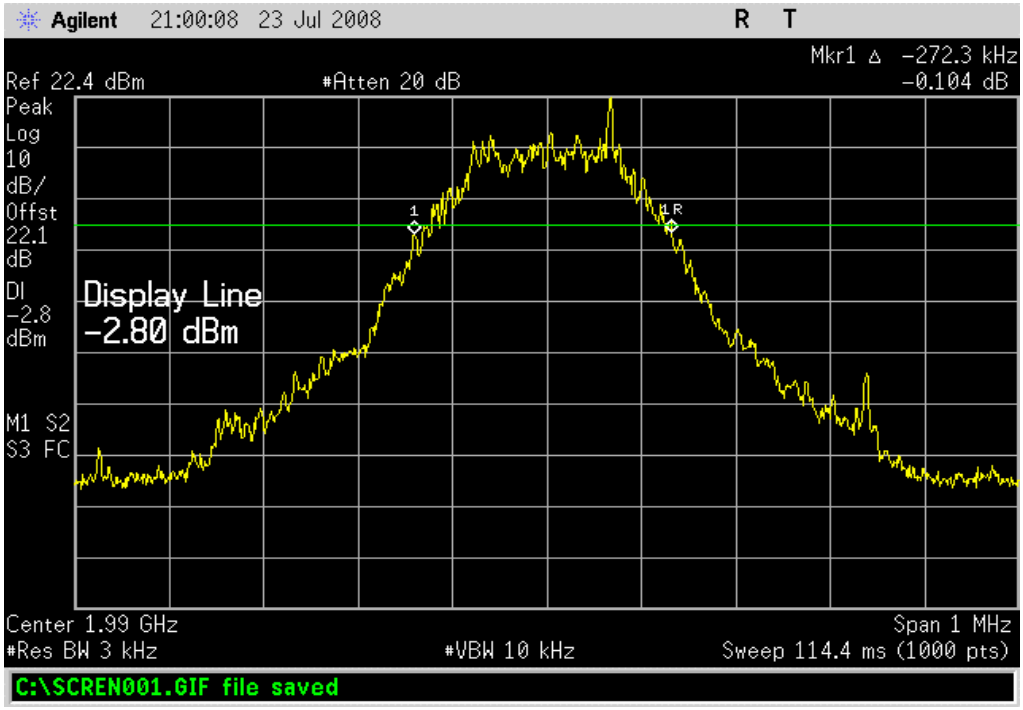
GPRS modulation, High power, Atten = 0, Mid channel, 1960MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	274.3 kHz	**Limit:**	N/A



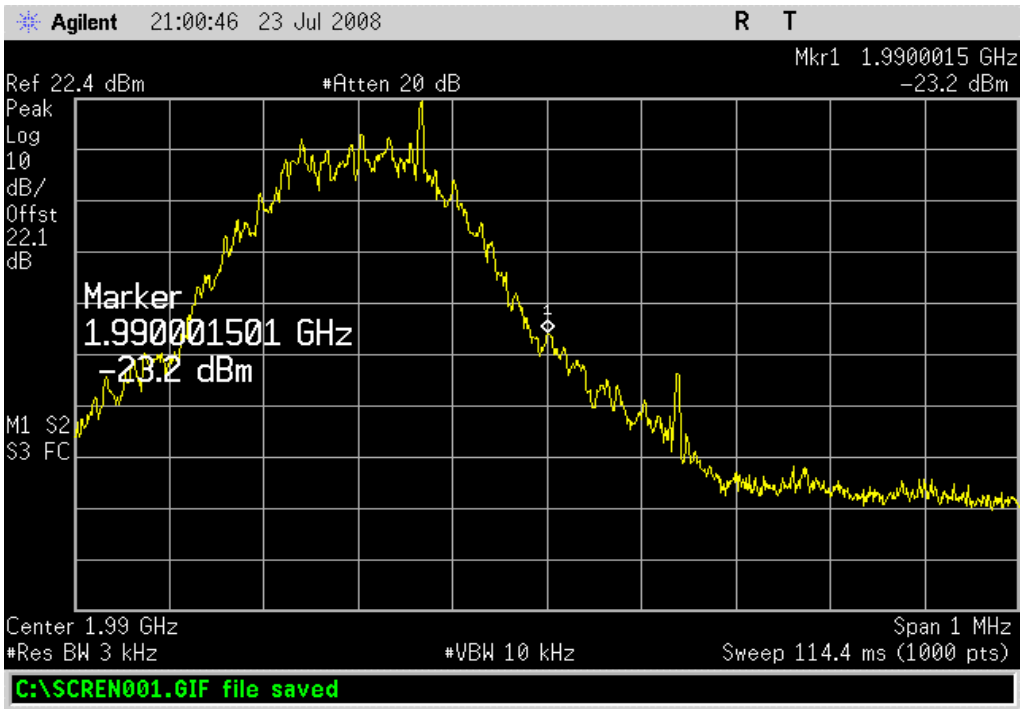
GPRS modulation, High power, Atten = 0, High channel, 1989.8MHz, Reference level plot					
Result:	N/A	**Value:**	22.4 dBm	**Limit:**	N/A



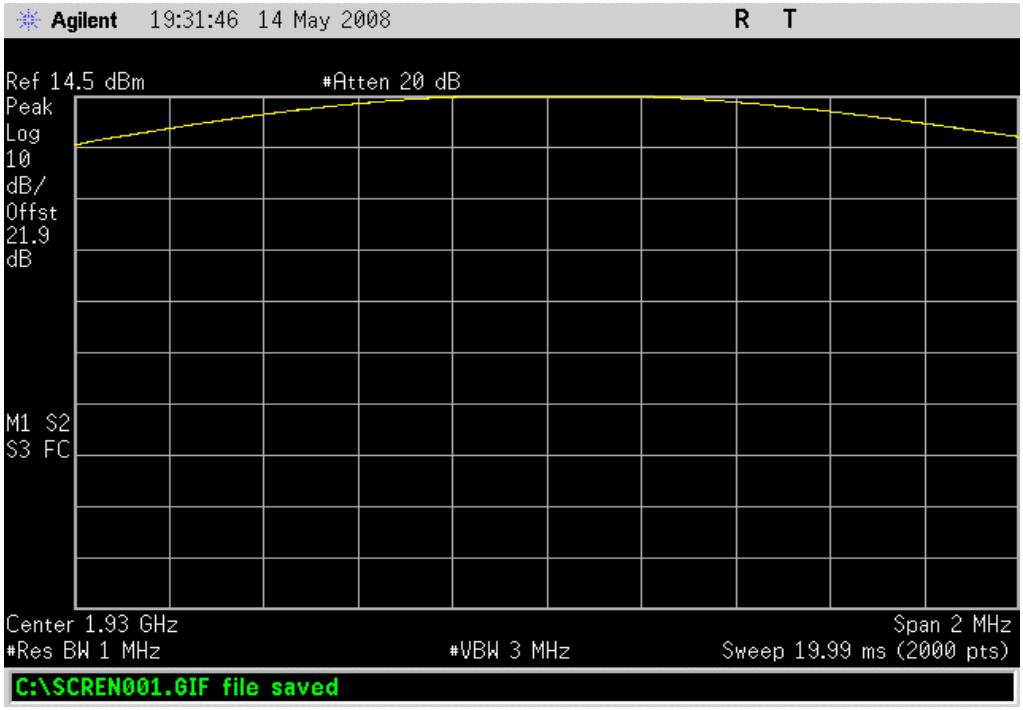
GPRS modulation, High power, Atten = 0, High channel, 1989.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	272.3 kHz	**Limit:**	N/A



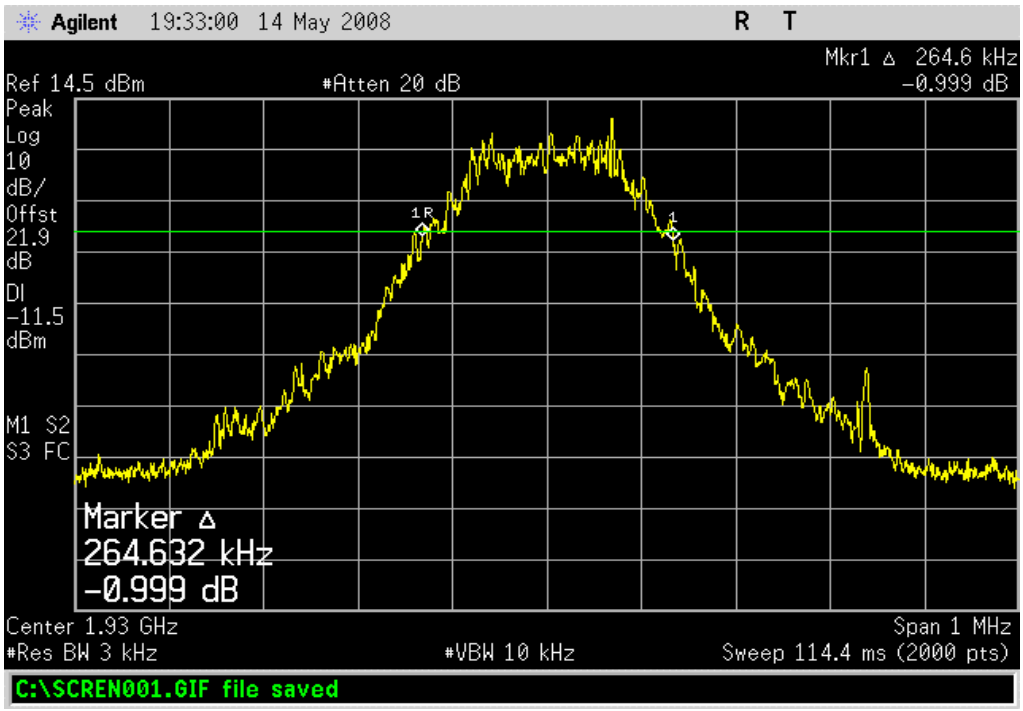
GPRS modulation, High power, Atten = 0, High channel, 1989.8MHz, Band Edge					
Result:	Pass	**Value:**	-23.2 dBm	**Limit:**	≤ -13 dBm



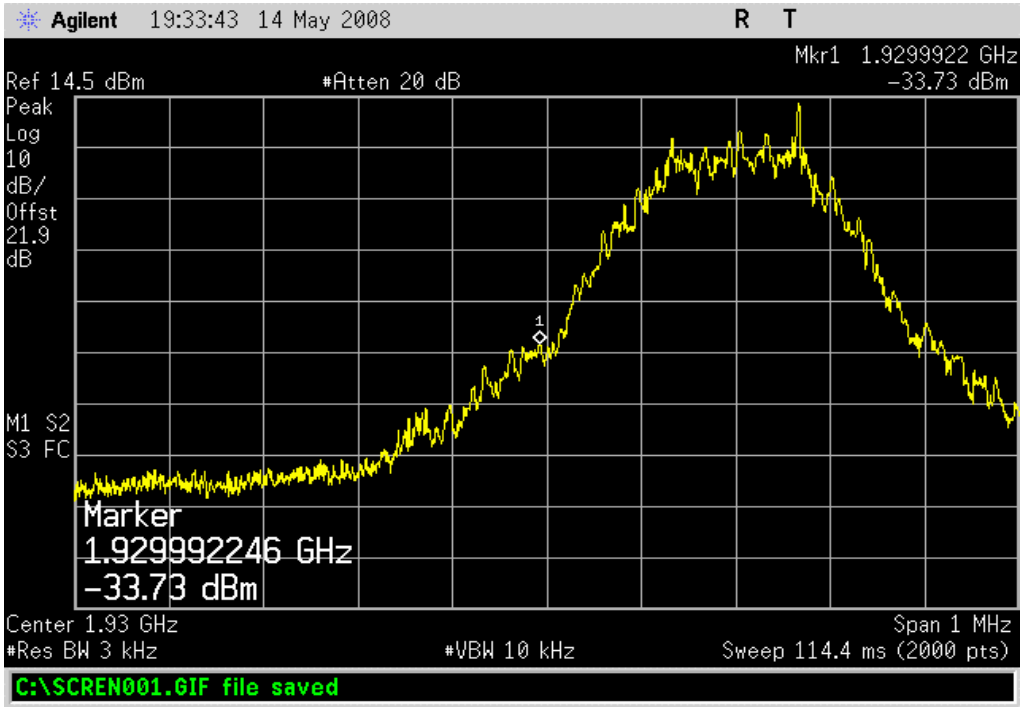
GPRS modulation, Mid power, Atten = 3, Low channel, 1930.2MHz, Reference level plot					
Result:	N/A	**Value:**	14.5 dBm	**Limit:**	N/A



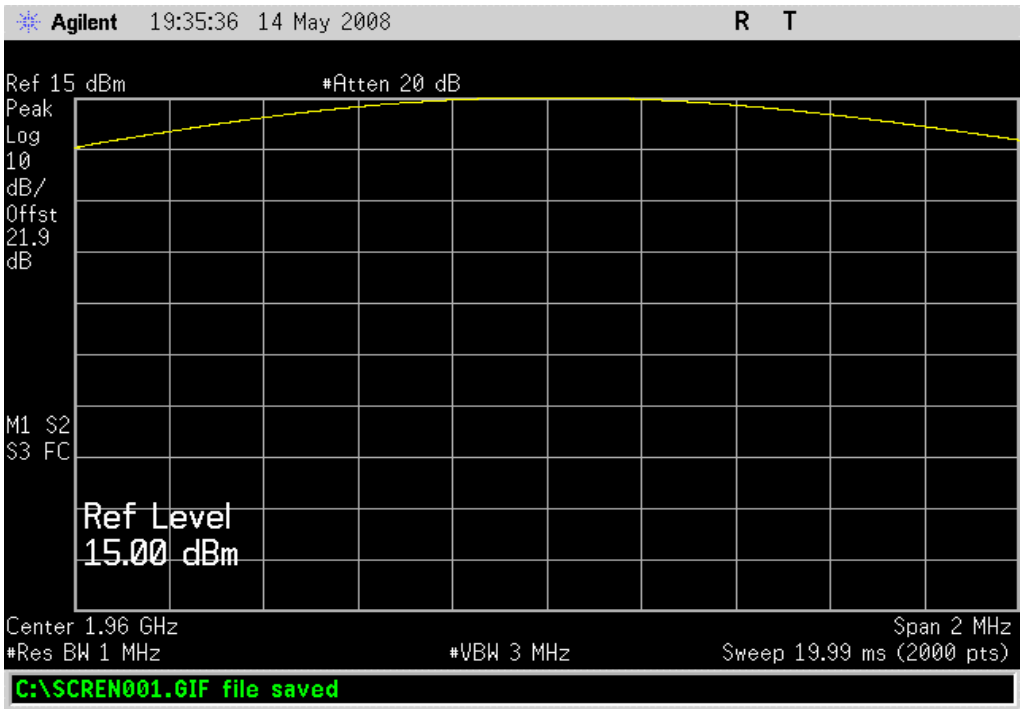
GPRS modulation, Mid power, Atten = 3, Low channel, 1930.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.6 kHz	**Limit:**	N/A



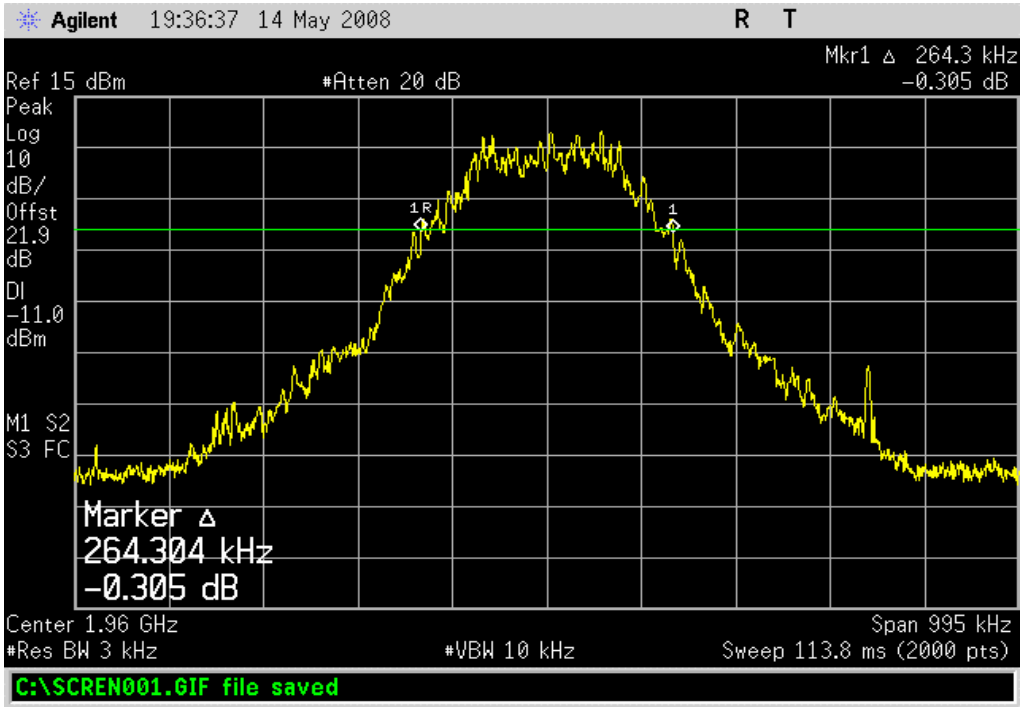
GPRS modulation, Mid power, Atten = 3, Low channel, 1930.2MHz, Band Edge					
Result:	Pass	**Value:**	-33.73 dBm	**Limit:**	≤ -13 dBm



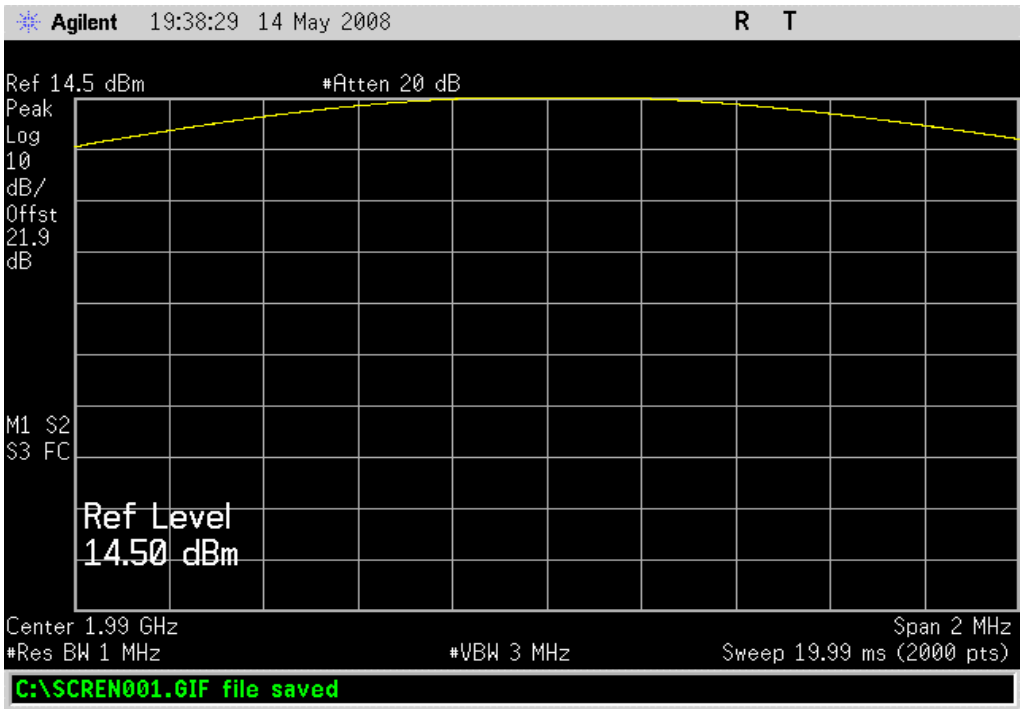
GPRS modulation, Mid power, Atten = 3, Mid channel, 1960MHz, Reference level plot					
Result:	N/A	**Value:**	15.0 dBm	**Limit:**	N/A



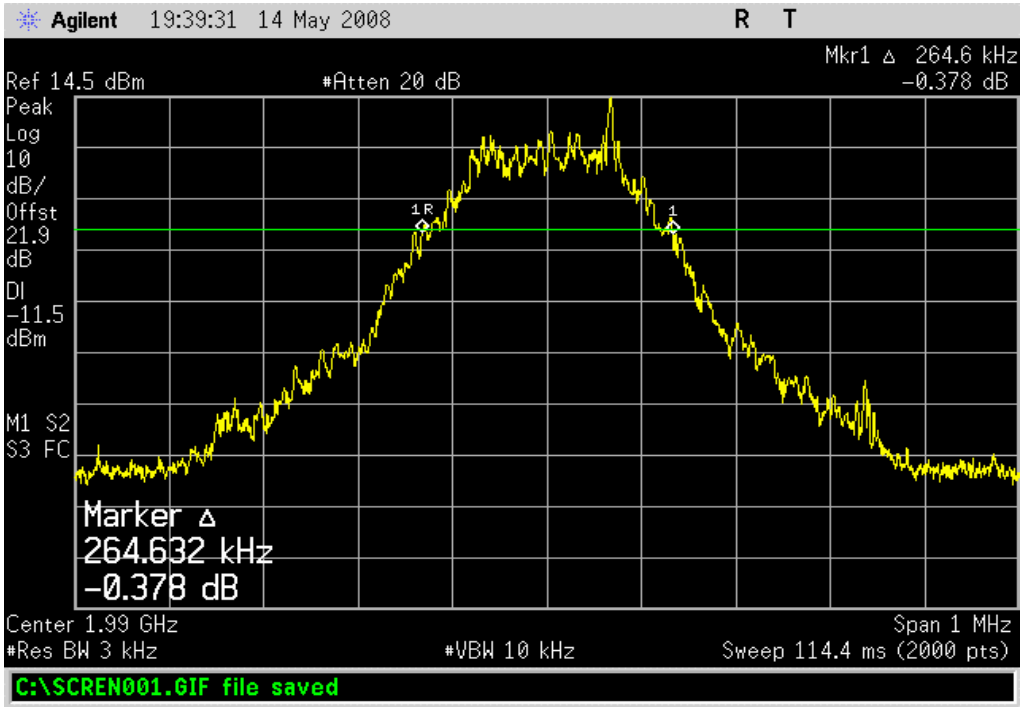
GPRS modulation, Mid power, Atten = 3, Mid channel, 1960MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.3 kHz	**Limit:**	N/A



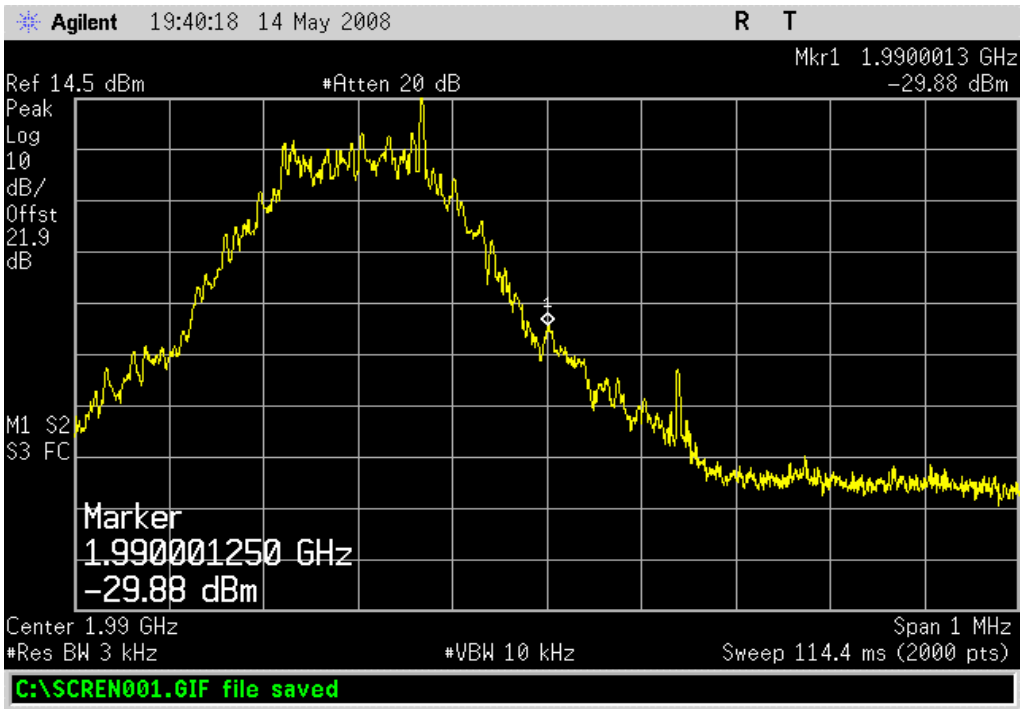
GPRS modulation, Mid power, Atten = 3, High channel, 1989.8MHz, Reference level plot					
Result:	N/A	**Value:**	14.5 dBm	**Limit:**	N/A



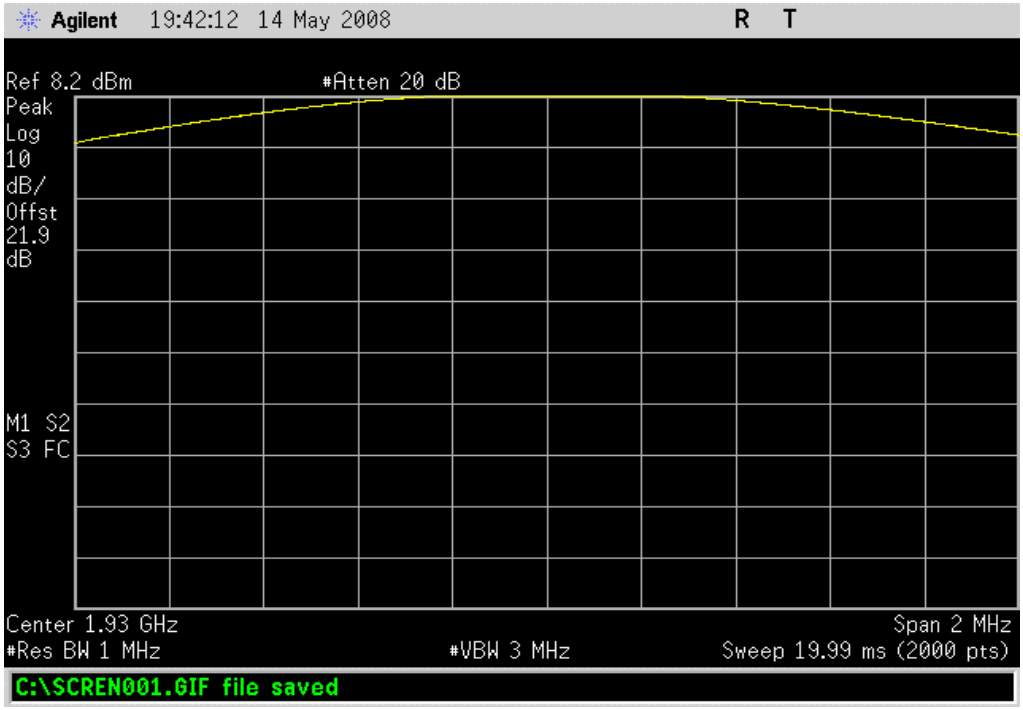
GPRS modulation, Mid power, Atten = 3, High channel, 1989.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	264.6 kHz	**Limit:**	N/A



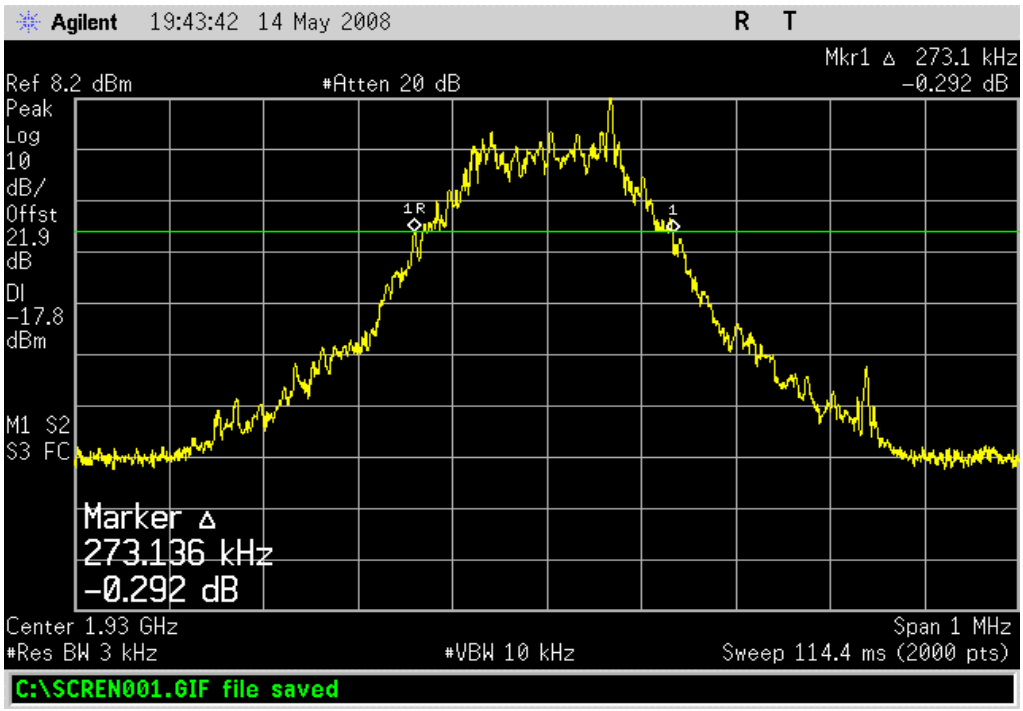
GPRS modulation, Mid power, Atten = 3, High channel, 1989.8MHz, Band Edge					
Result:	Pass	**Value:**	-29.88 dBm	**Limit:**	≤ -13 dBm



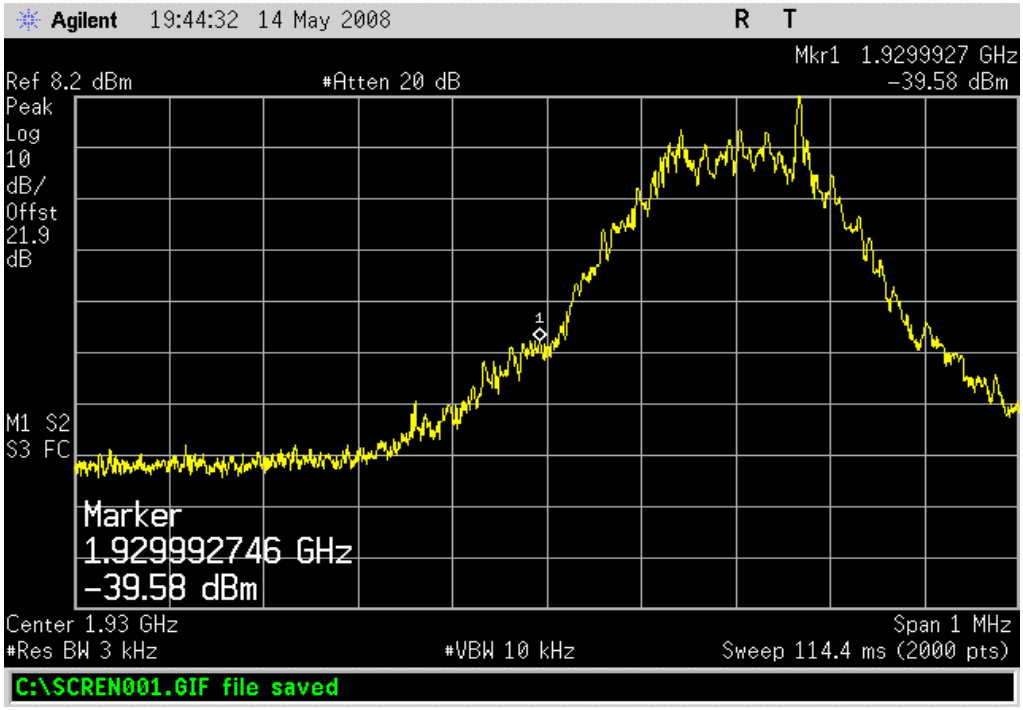
GPRS modulation, Low power, Atten = 6, Low channel, 1930.2MHz, Reference level plot					
Result:	N/A	**Value:**	8.2 dBm	**Limit:**	N/A



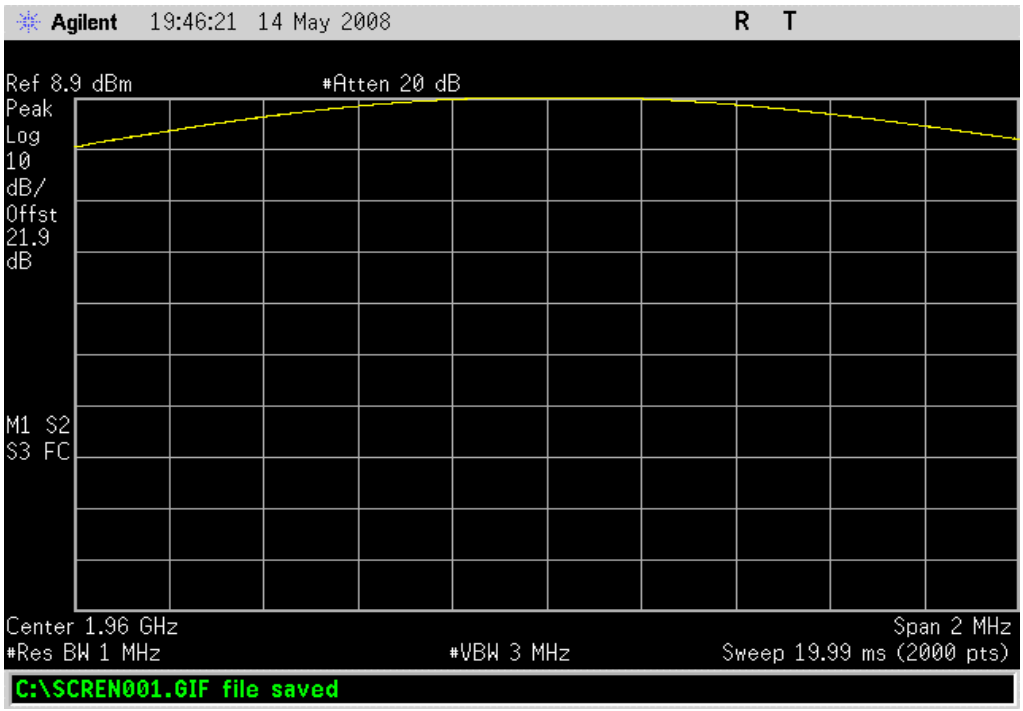
GPRS modulation, Low power, Atten = 6, Low channel, 1930.2MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	273.1 kHz	**Limit:**	N/A



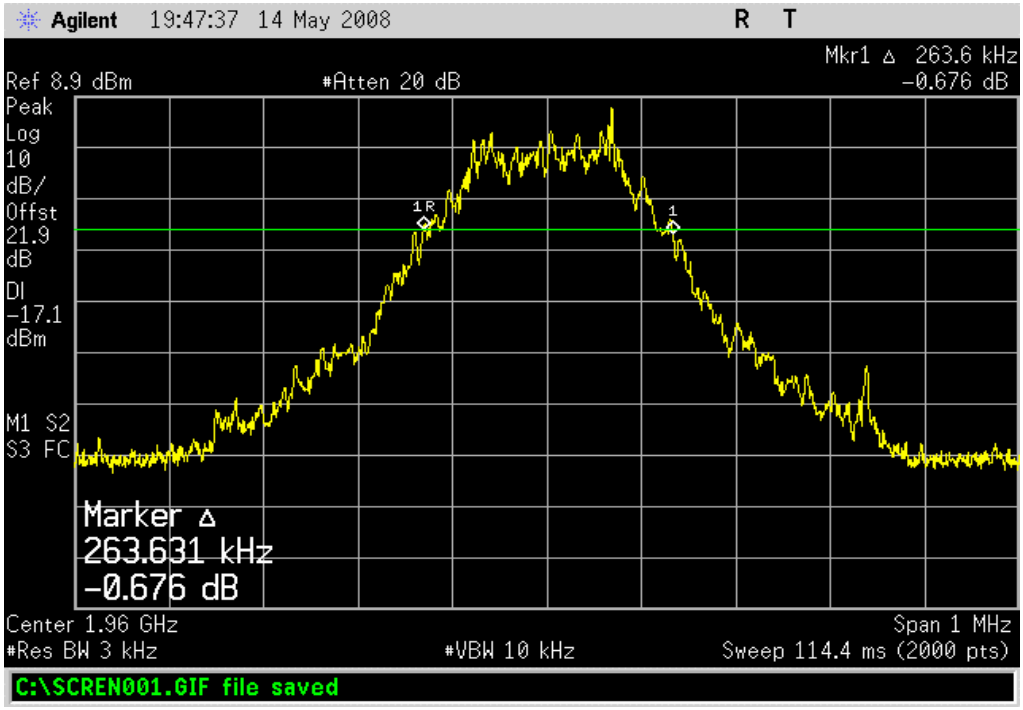
GPRS modulation, Low power, Atten = 6, Low channel, 1930.2MHz, Band Edge					
Result:	Pass	**Value:**	-39.58 dBm	**Limit:**	≤ -13 dBm



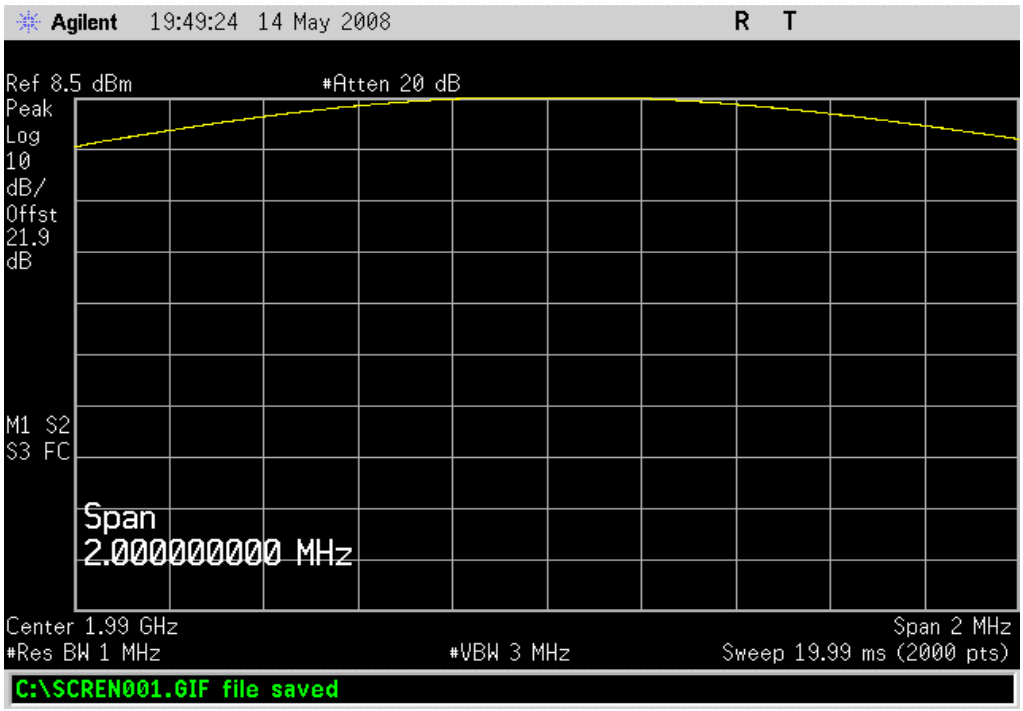
GPRS modulation, Low power, Atten = 6, Mid channel, 1960MHz, Reference level plot					
Result:	N/A	**Value:**	8.9 dBm	**Limit:**	N/A



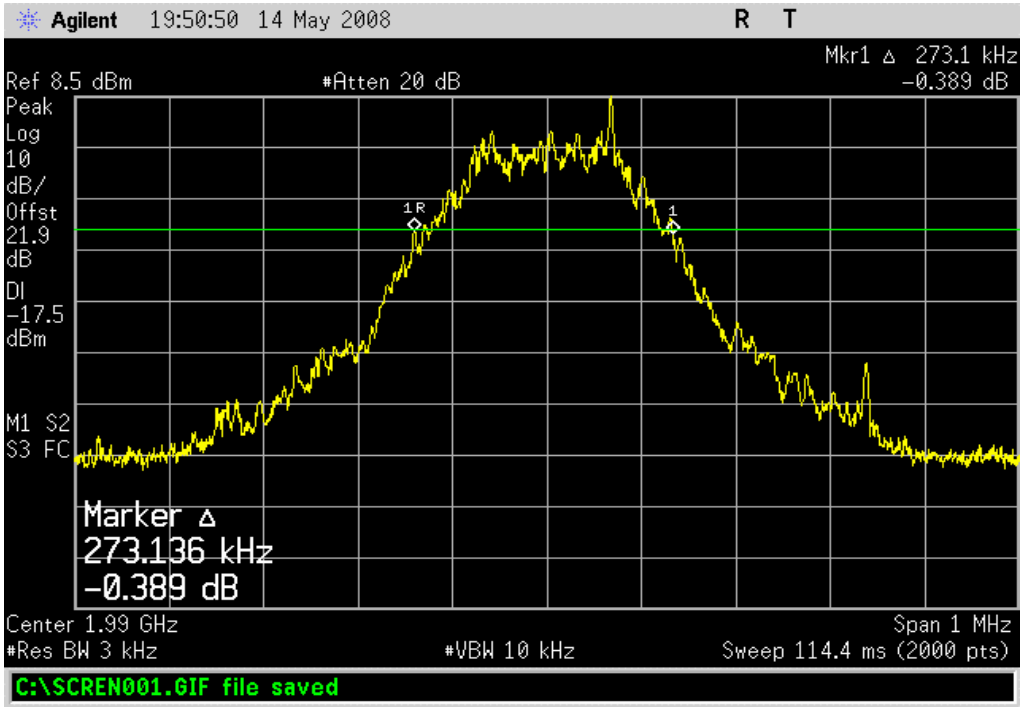
GPRS modulation, Low power, Atten = 6, Mid channel, 1960MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	263.6 kHz	**Limit:**	N/A



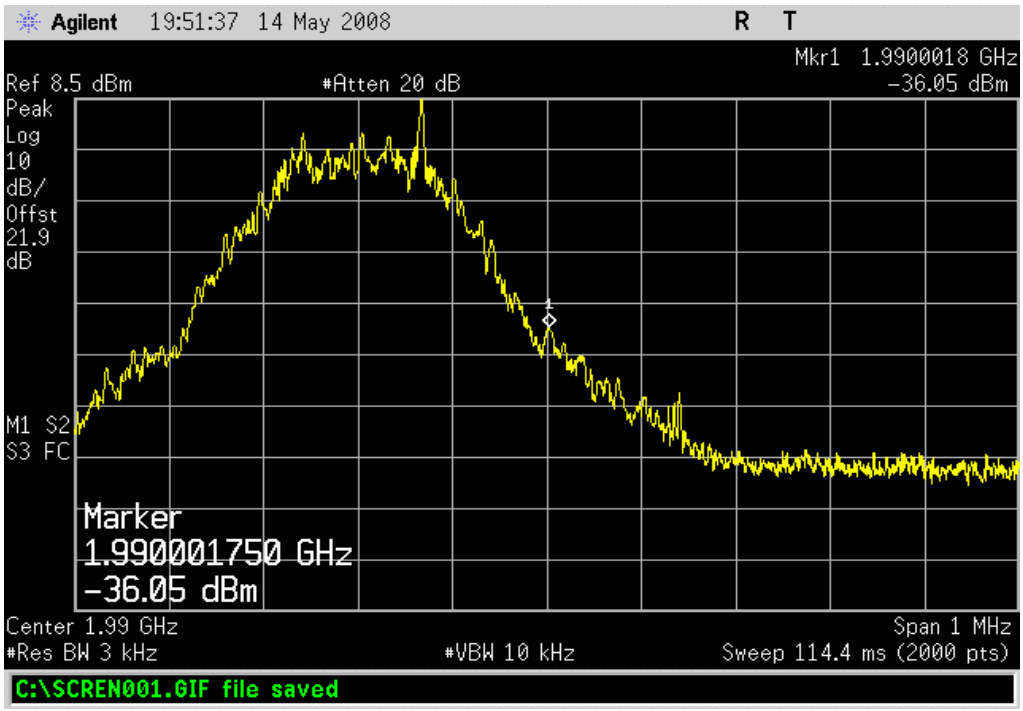
GPRS modulation, Low power, Atten = 6, High channel, 1989.8MHz, Reference level plot					
Result:	N/A	**Value:**	8.5 dBm	**Limit:**	N/A

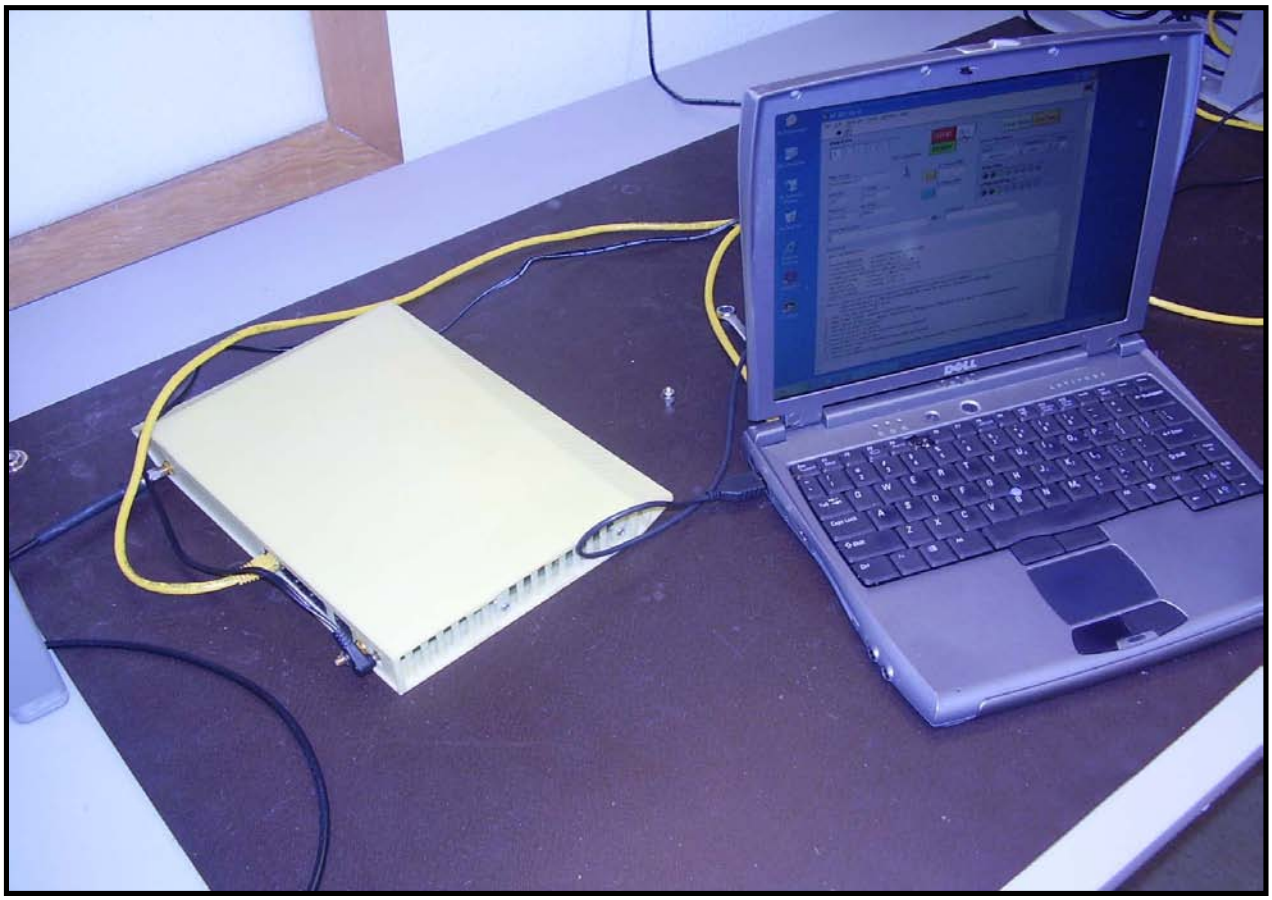


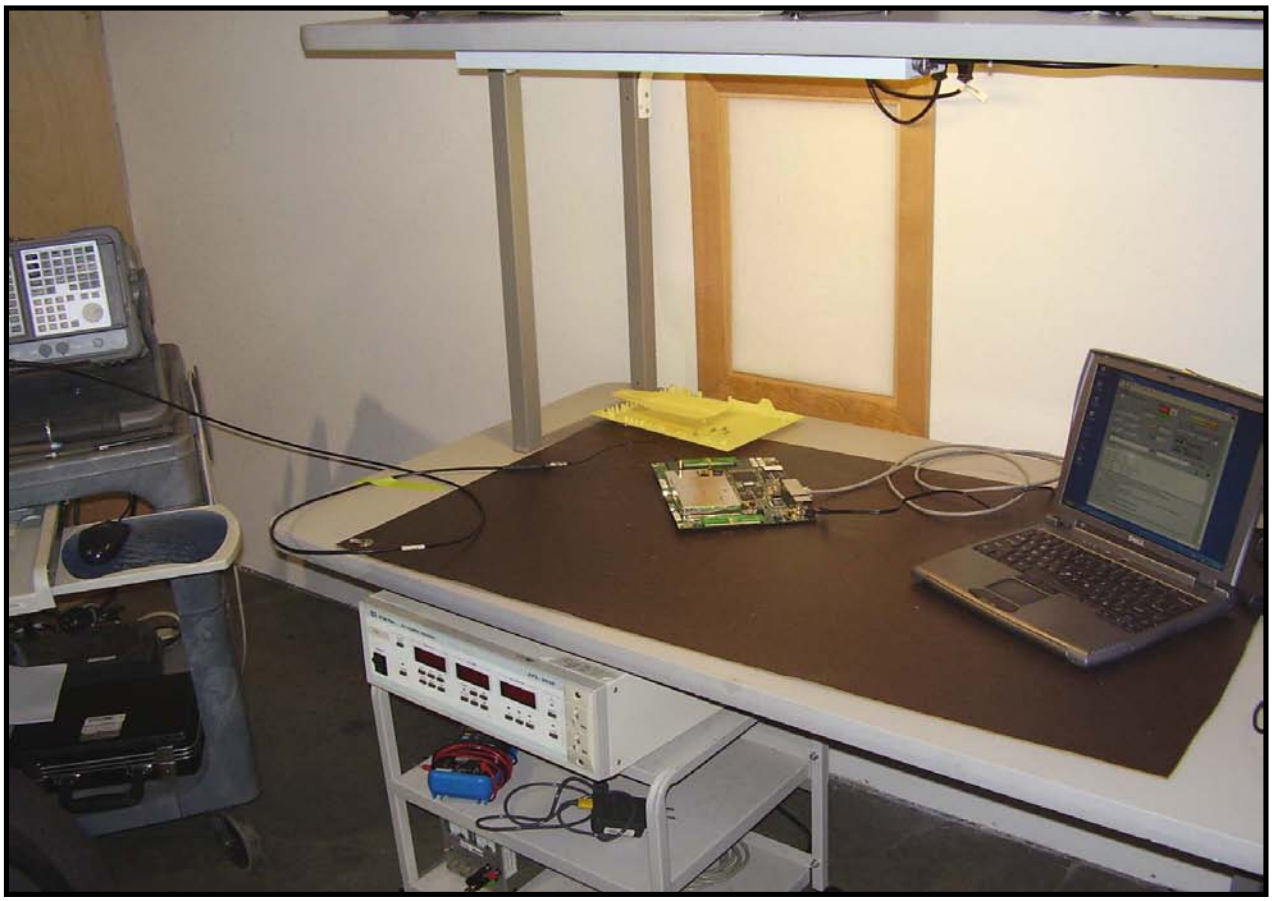
GPRS modulation, Low power, Atten = 6, High channel, 1989.8MHz, Occupied Bandwidth					
Result:	N/A	**Value:**	273.1 kHz	**Limit:**	N/A

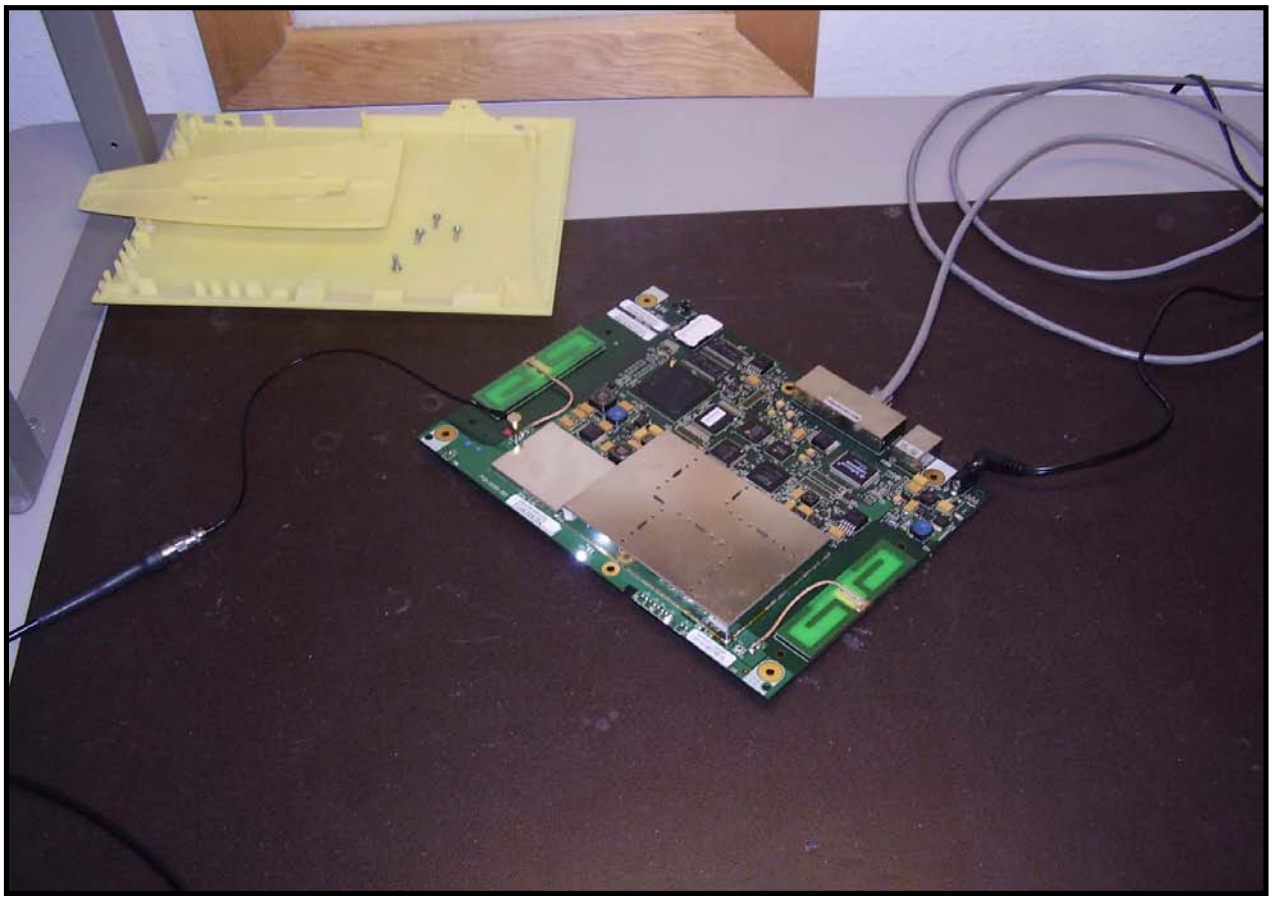


GPRS modulation, Low power, Atten = 6, High channel, 1989.8MHz, Band Edge					
Result:	Pass	**Value:**	-36.05 dBm	**Limit:**	≤ -13 dBm









Output Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to the parameters called out in the data sheets. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Prior to making the measurements the setup including cables and attenuator was calibrated with a signal generator and a power meter.

NORTHWEST EMC

Output Power

XMit 2007.06.13

EUT:	OmniCell@Home			**Work Order:**	RAFN0085
Serial Number:	None			**Date:**	5/14/2008 & 7-22-08
Customer:	Radioframe Networks, Inc.			**Temperature:**	24°C
Attendees:	Nha Tran			**Humidity:**	35%
Project:	None			**Barometric Pres.:**	30.44
Tested by:	Holly Ashkannejhad & Rod Peloquin	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

Cellular Band

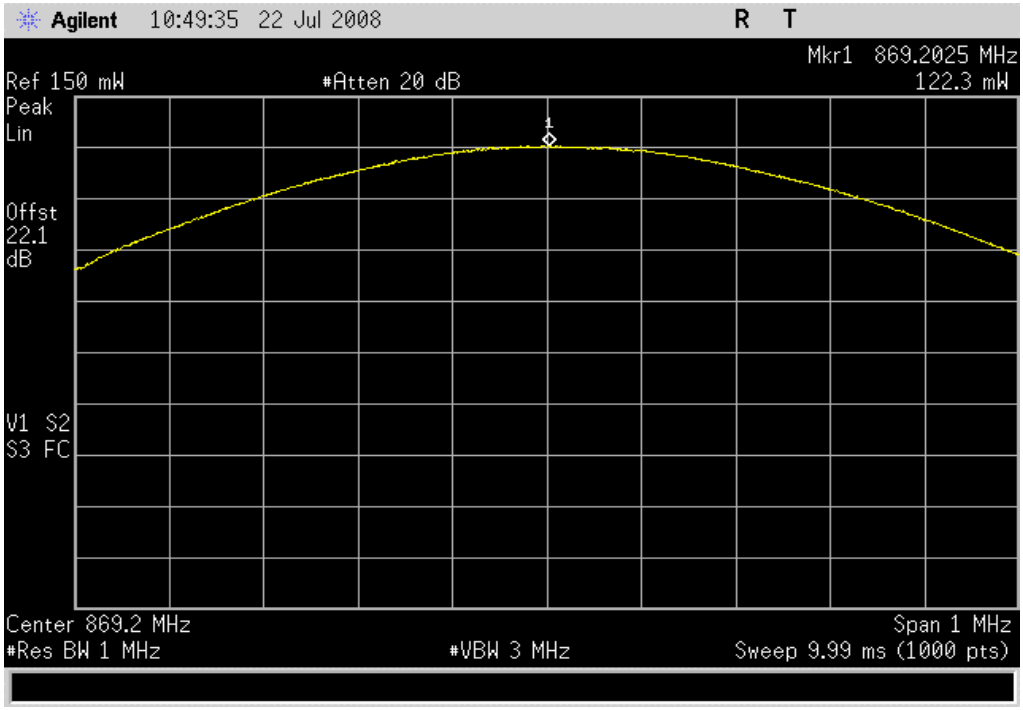
DEVIATIONS FROM TEST STANDARD

No deviations

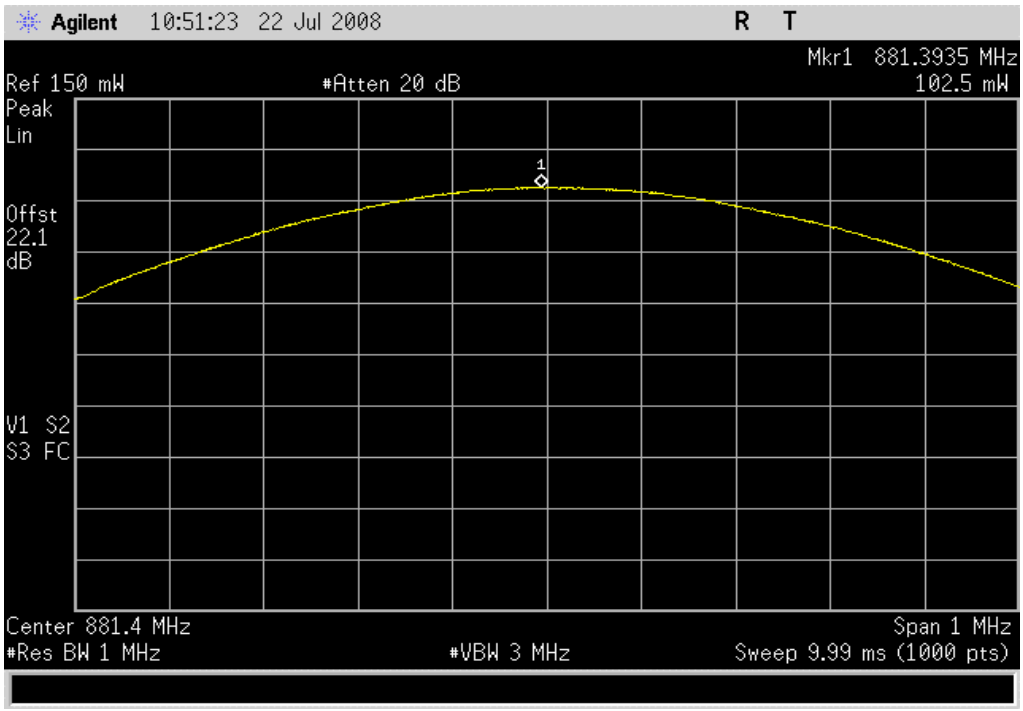
Configuration #	2	Signature

		Value	Limit	Results
GSM modulation				
	High power, Atten= 0			
	Low channel, 869.2MHz	122.3 mW	7 W	Pass
	Mid channel, 881.4MHz	102.5 mW	7 W	Pass
	High channel, 893.8MHz	105.8 mW	7 W	Pass
	Mid power, Atten = 3			
	Low channel, 869.2MHz	18.43 mW	7 W	Pass
	Mid channel, 881.4MHz	17.93 mW	7 W	Pass
	High channel, 893.8MHz	17.78 mW	7 W	Pass
	Low power, Atten = 6			
	Low channel, 869.2MHz	4.512 mW	7 W	Pass
	Mid channel, 881.4MHz	4.363 mW	7 W	Pass
	High channel, 893.8MHz	4.372 mW	7 W	Pass
GPRS modulation				
	High power, Atten= 0			
	Low channel, 869.2MHz	119.9 mW	7 W	Pass
	Mid channel, 881.4MHz	101.5 mW	7 W	Pass
	High channel, 893.8MHz	104.4 mW	7 W	Pass
	Mid power, Atten = 3			
	Low channel, 869.2MHz	18.53 mW	7 W	Pass
	Mid channel, 881.4MHz	18.66 mW	7 W	Pass
	High channel, 893.8MHz	17.56 mW	7 W	Pass
	Low power, Atten = 6			
	Low channel, 869.2MHz	4.414 mW	7 W	Pass
	Mid channel, 881.4MHz	4.436 mW	7 W	Pass
	High channel, 893.8MHz	4.363 mW	7 W	Pass

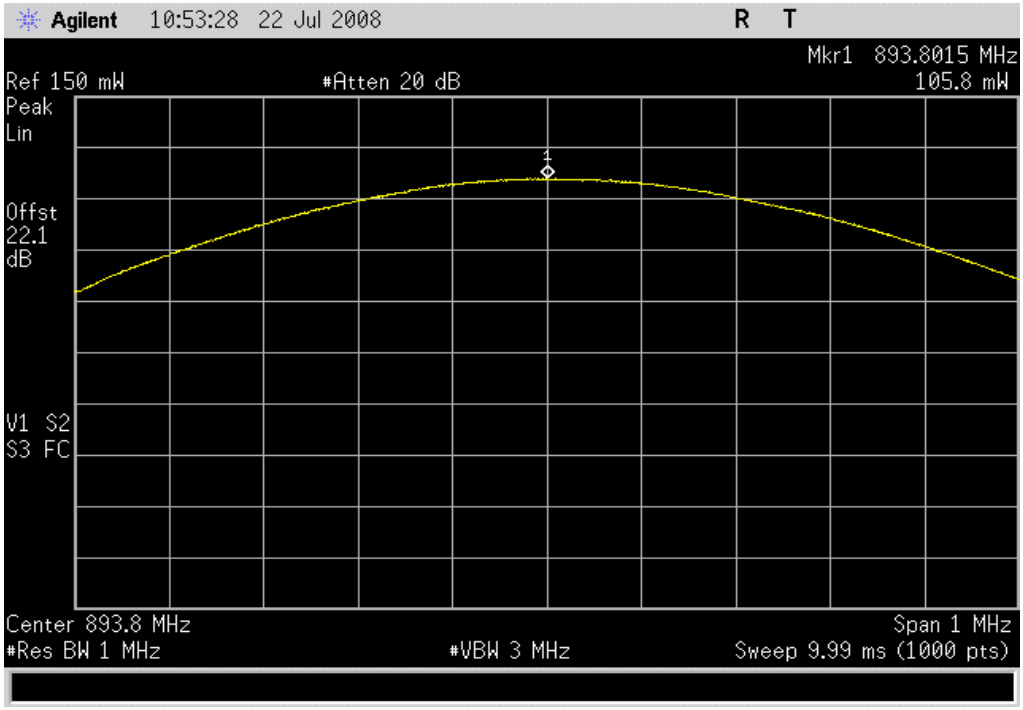
GSM modulation, High power, Atten= 0, Low channel, 869.2MHz					
Result:	Pass	**Value:**	122.3 mW	**Limit:**	7 W



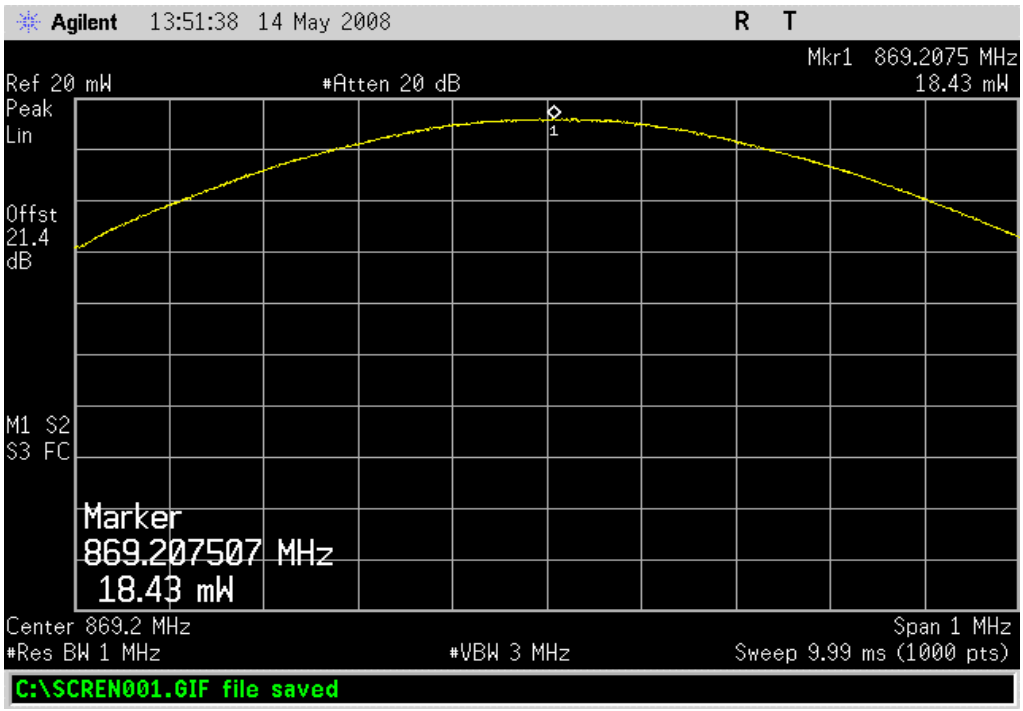
GSM modulation, High power, Atten= 0, Mid channel, 881.4MHz					
Result:	Pass	**Value:**	102.5 mW	**Limit:**	7 W



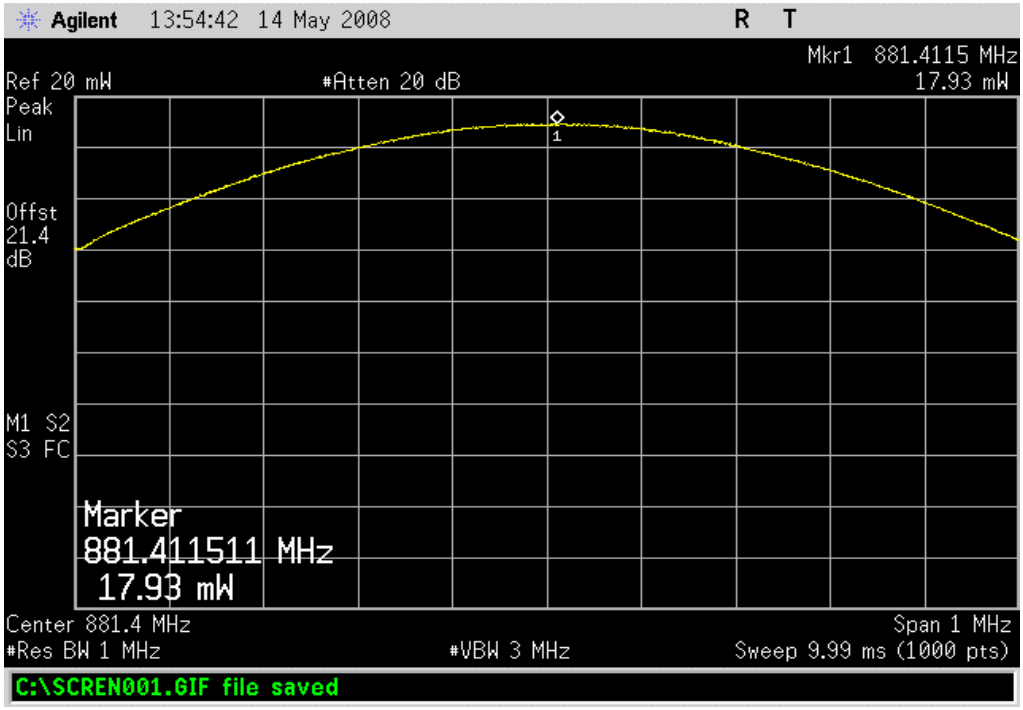
GSM modulation, High power, Atten= 0, High channel, 893.8MHz					
Result:	Pass	**Value:**	105.8 mW	**Limit:**	7 W



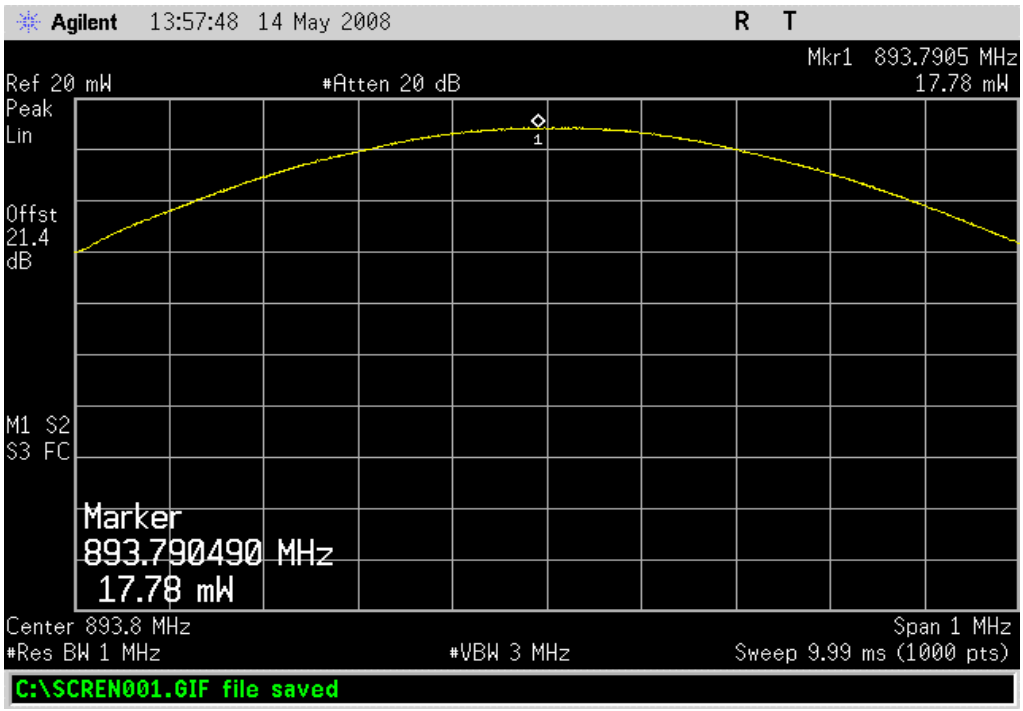
GSM modulation, Mid power, Atten = 3, Low channel, 869.2MHz					
Result:	Pass	**Value:**	18.43 mW	**Limit:**	7 W



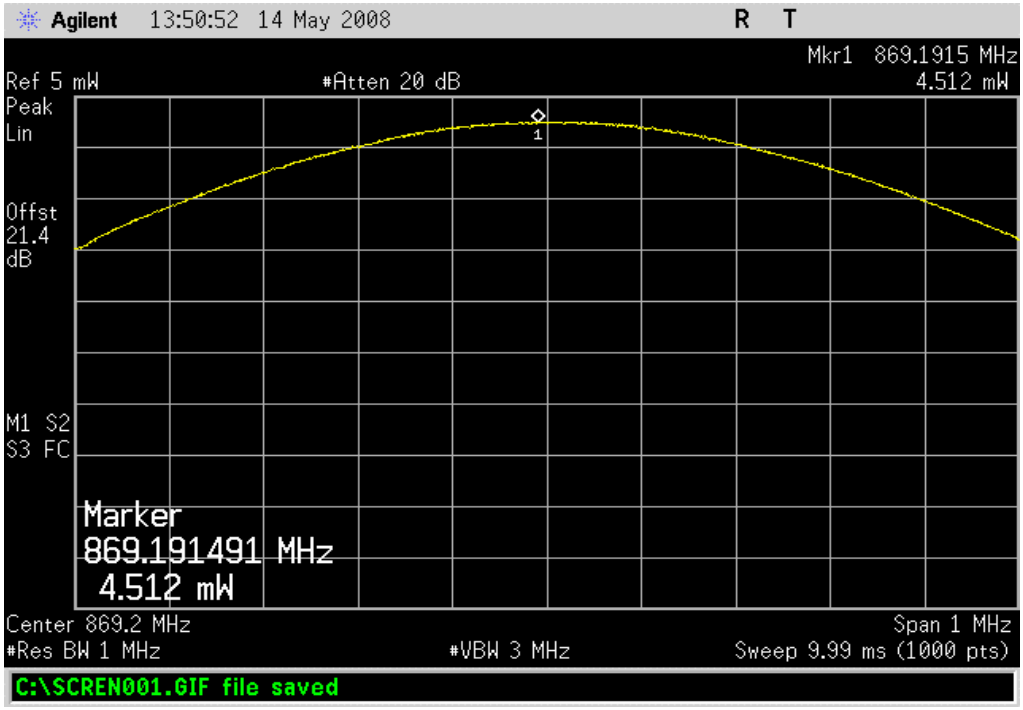
GSM modulation, Mid power, Atten = 3, Mid channel, 881.4MHz					
Result:	Pass	**Value:**	17.93 mW	**Limit:**	7 W



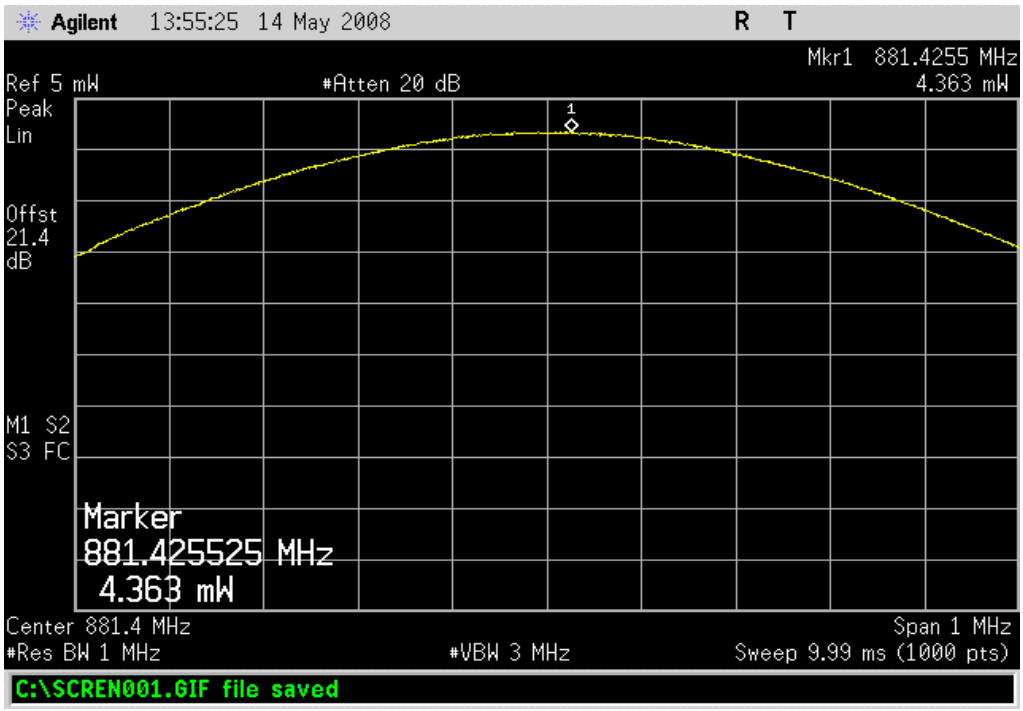
GSM modulation, Mid power, Atten = 3, High channel, 893.8MHz					
Result:	Pass	**Value:**	17.78 mW	**Limit:**	7 W



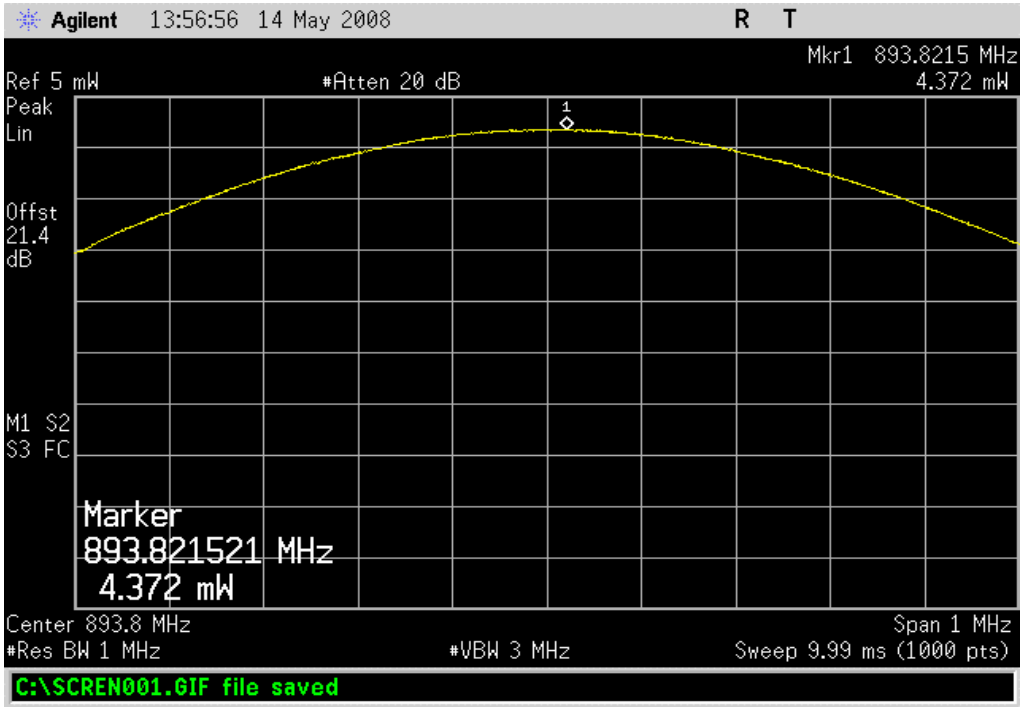
GSM modulation, Low power, Atten = 6, Low channel, 869.2MHz					
Result:	Pass	**Value:**	4.512 mW	**Limit:**	7 W



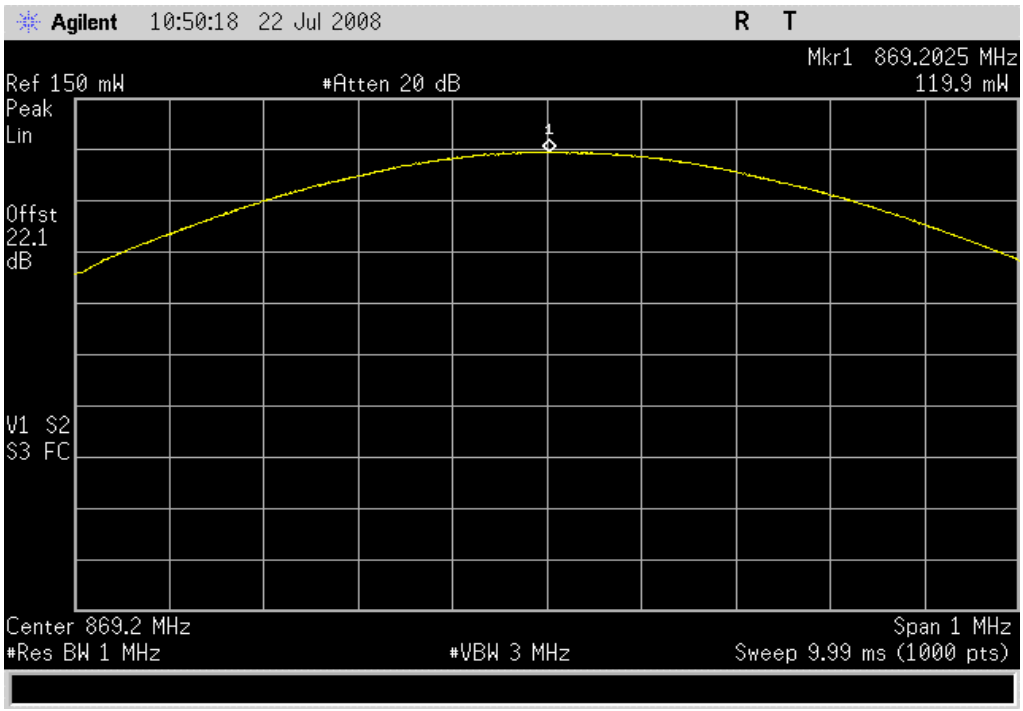
GSM modulation, Low power, Atten = 6, Mid channel, 881.4MHz					
Result:	Pass	**Value:**	4.363 mW	**Limit:**	7 W



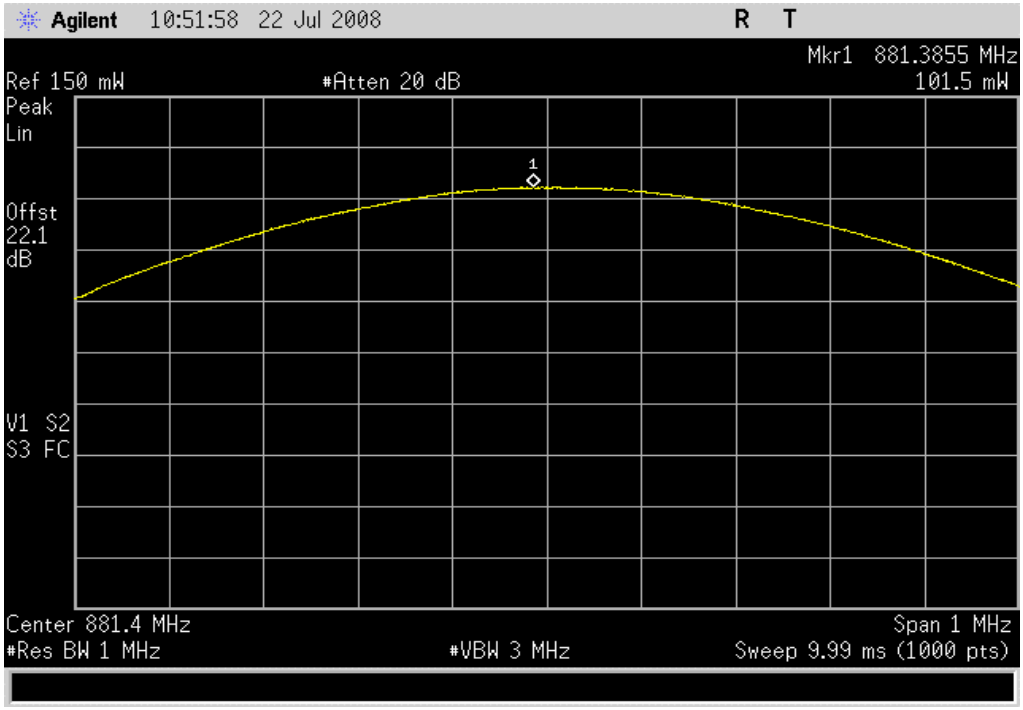
GSM modulation, Low power, Atten = 6, High channel, 893.8MHz					
Result:	Pass	**Value:**	4.372 mW	**Limit:**	7 W



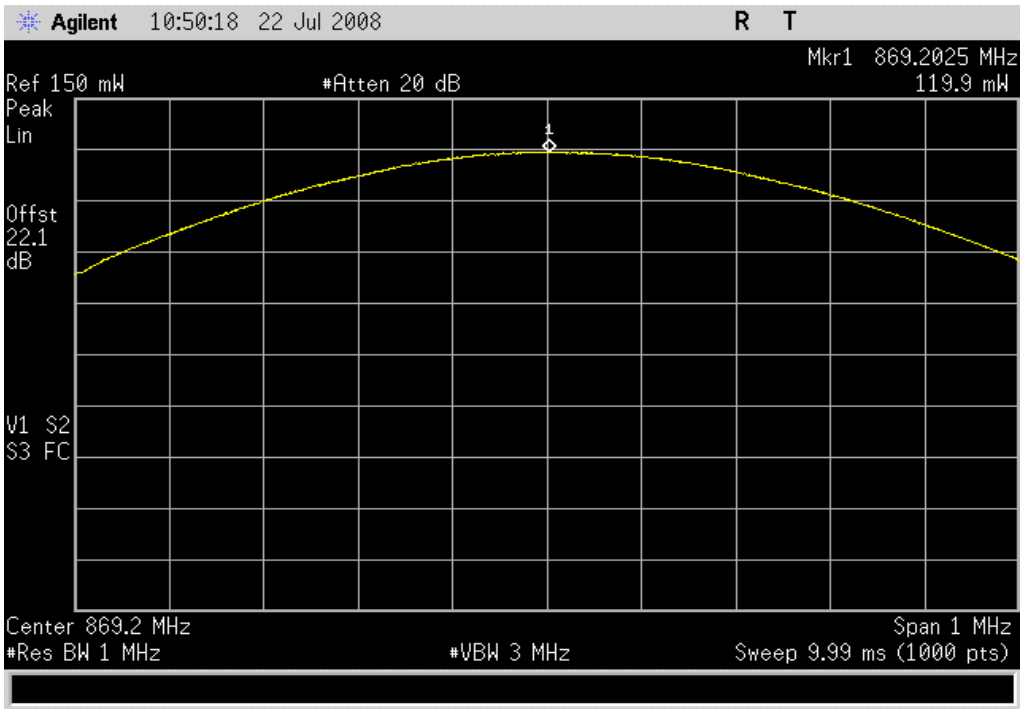
GPRS modulation, High power, Atten= 0, Low channel, 869.2MHz					
Result:	Pass	**Value:**	119.9 mW	**Limit:**	7 W



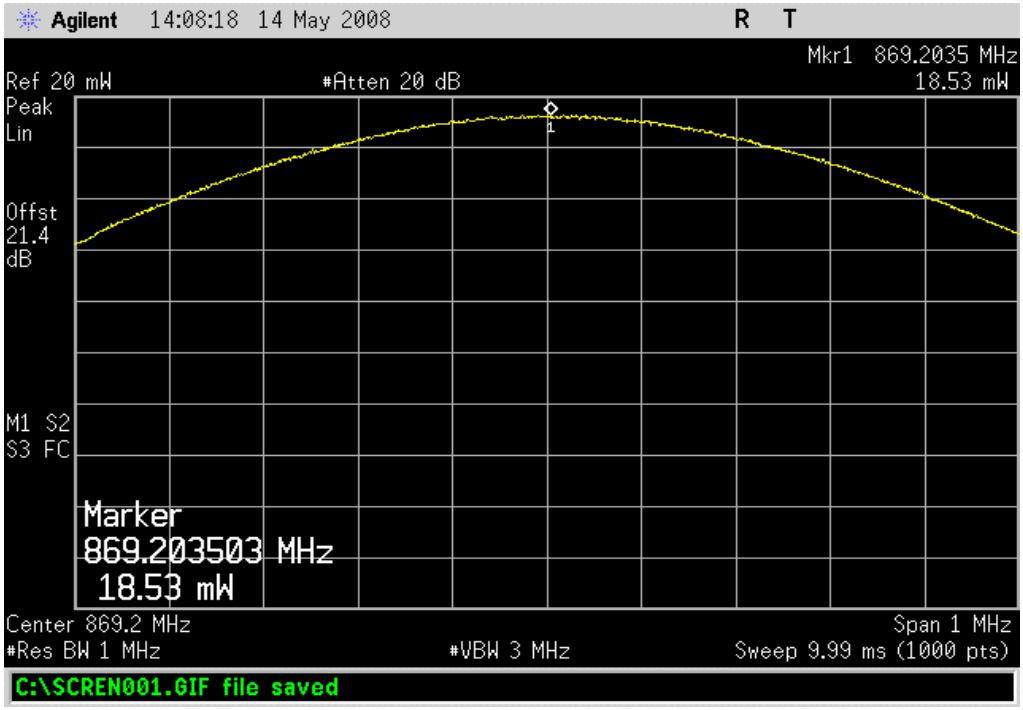
GPRS modulation, High power, Atten= 0, Mid channel, 881.4MHz					
Result:	Pass	**Value:**	101.5 mW	**Limit:**	7 W



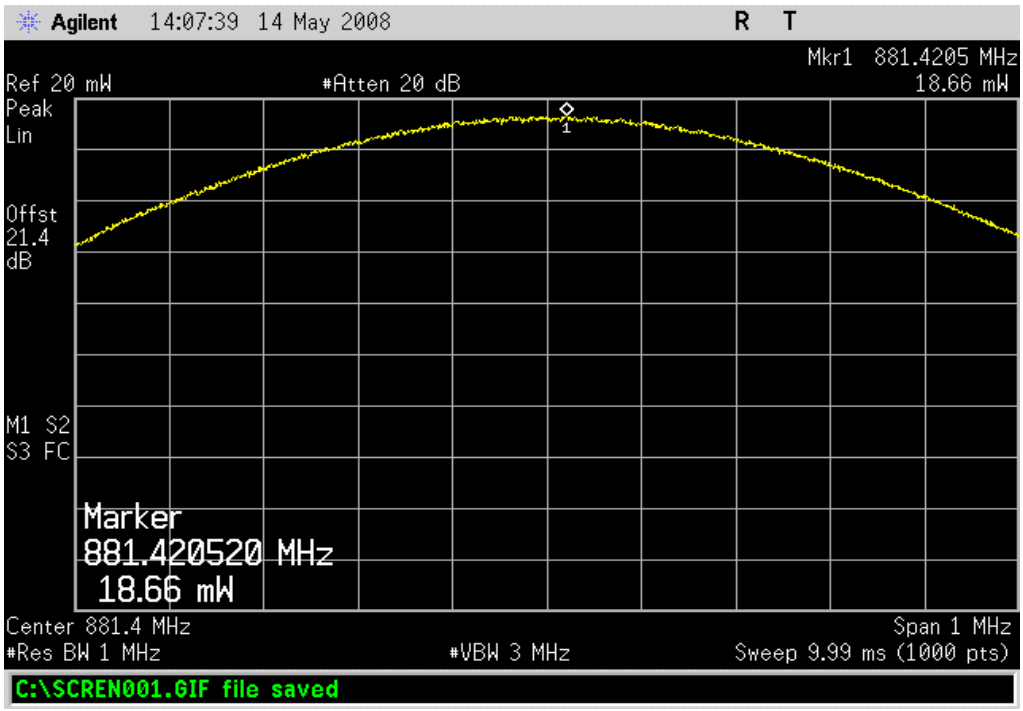
GPRS modulation, High power, Atten= 0, High channel, 893.8MHz					
Result:	Pass	**Value:**	104.4 mW	**Limit:**	7 W



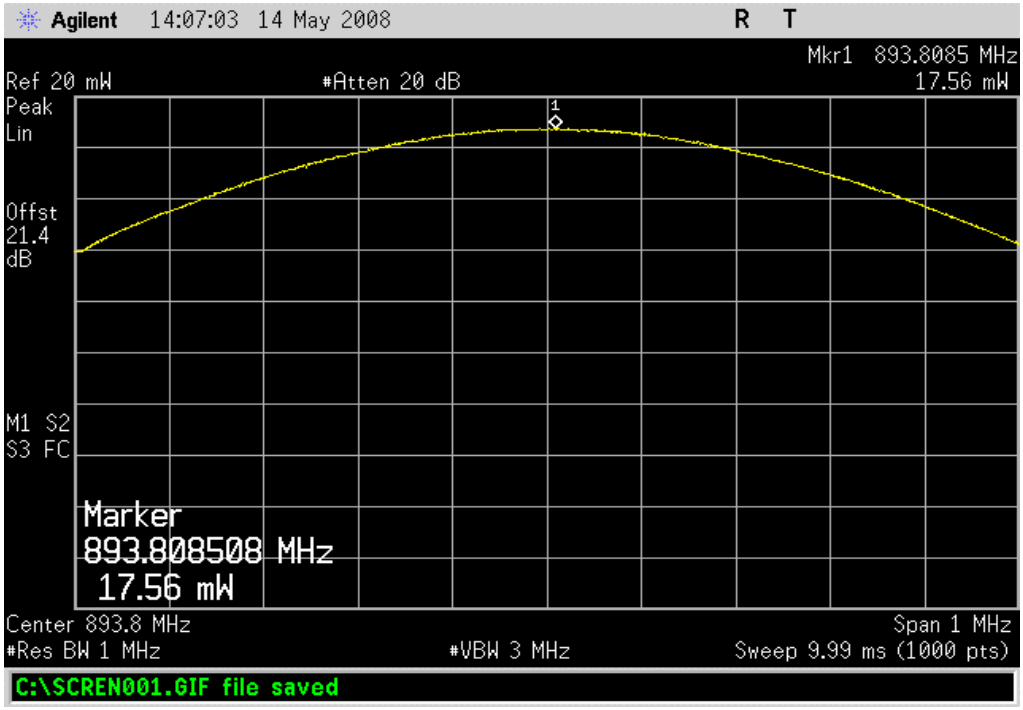
GPRS modulation, Mid power, Atten = 3, Low channel, 869.2MHz					
Result:	Pass	**Value:**	18.53 mW	**Limit:**	7 W



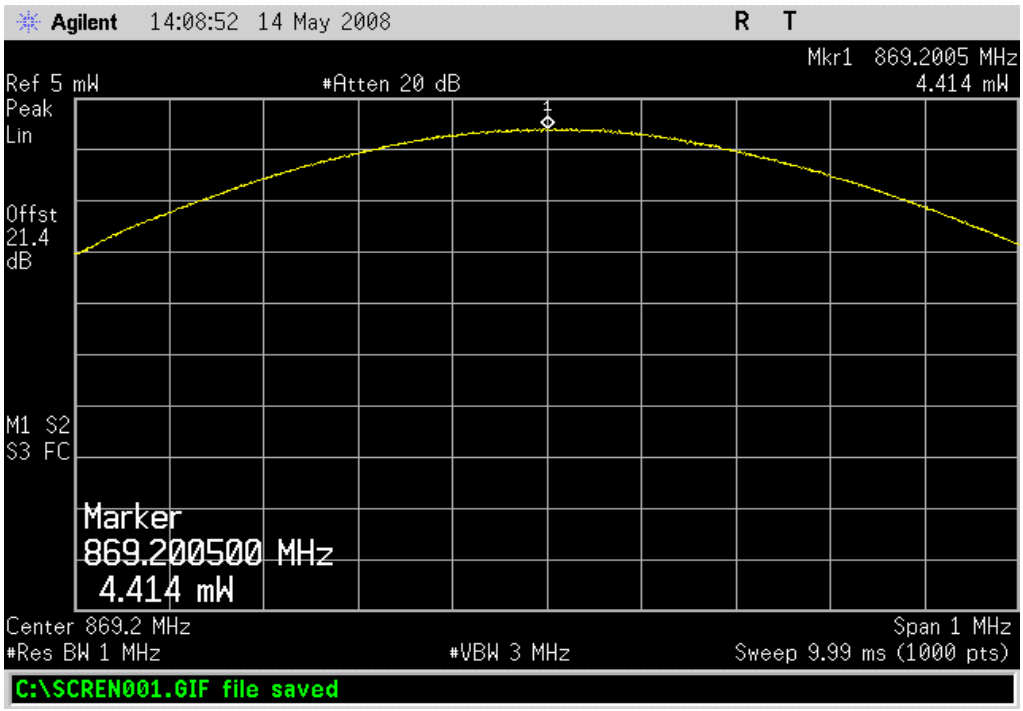
GPRS modulation, Mid power, Atten = 3, Mid channel, 881.4MHz					
Result:	Pass	**Value:**	18.66 mW	**Limit:**	7 W



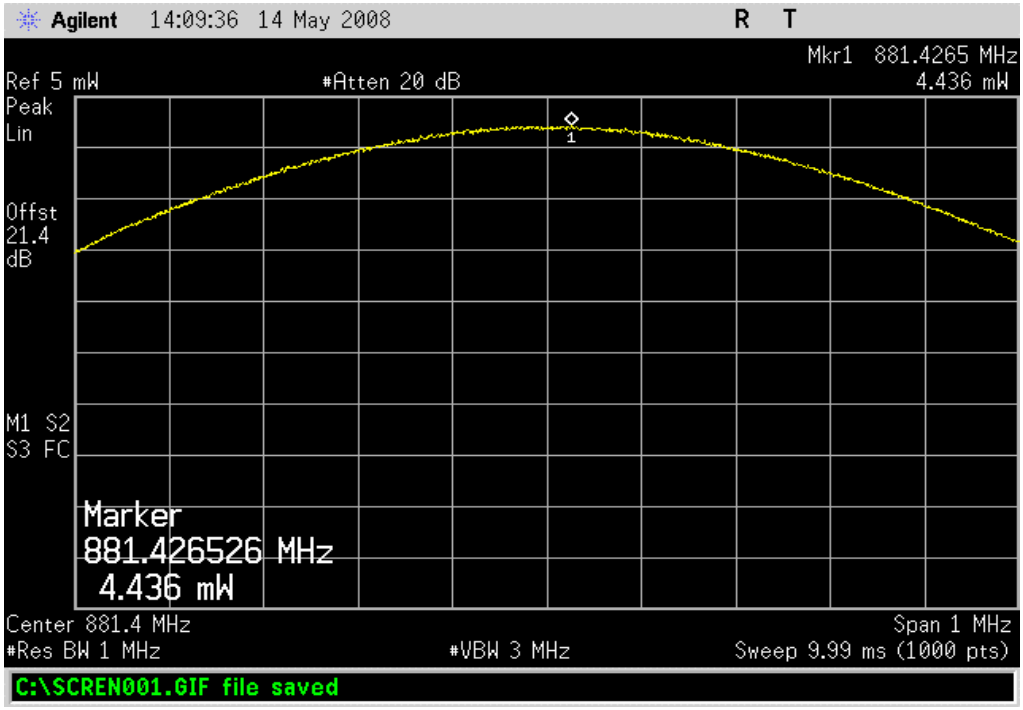
GPRS modulation, Mid power, Atten = 3, High channel, 893.8MHz					
Result:	Pass	**Value:**	17.56 mW	**Limit:**	7 W



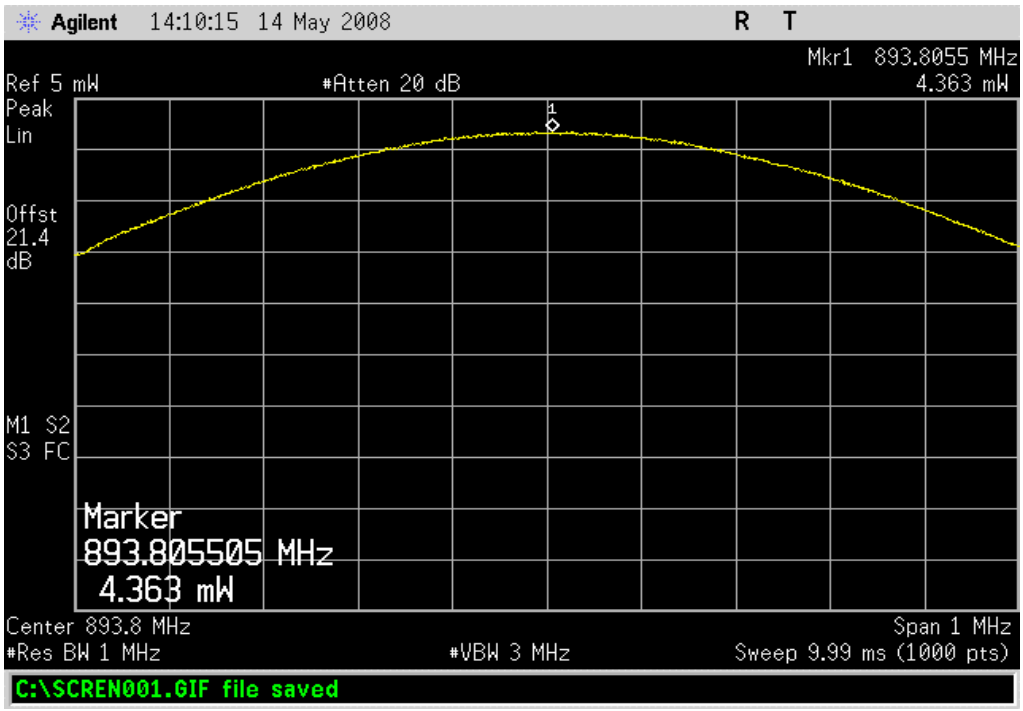
GPRS modulation, Low power, Atten = 6, Low channel, 869.2MHz					
Result:	Pass	**Value:**	4.414 mW	**Limit:**	7 W

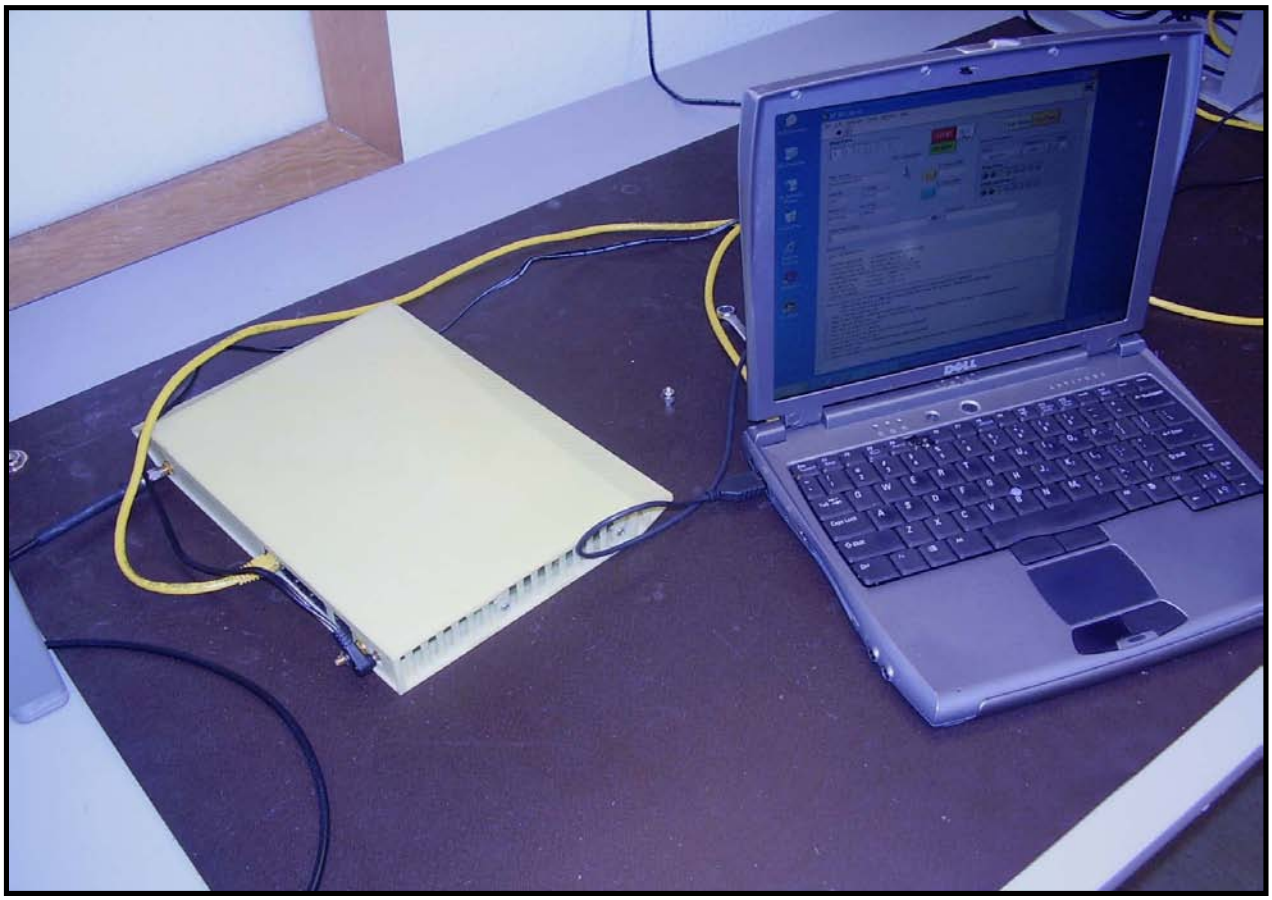


GPRS modulation, Low power, Atten = 6, Mid channel, 881.4MHz					
Result:	Pass	**Value:**	4.436 mW	**Limit:**	7 W



GPRS modulation, Low power, Atten = 6, High channel, 893.8MHz					
Result:	Pass	**Value:**	4.363 mW	**Limit:**	7 W





Output Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to the parameters called out in the data sheets. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. Prior to making the measurements the setup including cables and attenuator was calibrated with a signal generator and a power meter.

NORTHWEST EMC

Output Power

XMit 2007.06.13

EUT:	OmniCell@Home			**Work Order:**	RAFN0085
Serial Number:	None			**Date:**	07/23/08
Customer:	Radioframe Networks, Inc.			**Temperature:**	23.39
Attendees:	None			**Humidity:**	34%
Project:	None			**Barometric Pres.:**	1023.5mb
Tested by:	Holly Ashkannejhad	**Power:**	120VAC/60Hz	**Job Site:**	EV06

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

COMMENTS

PCS band

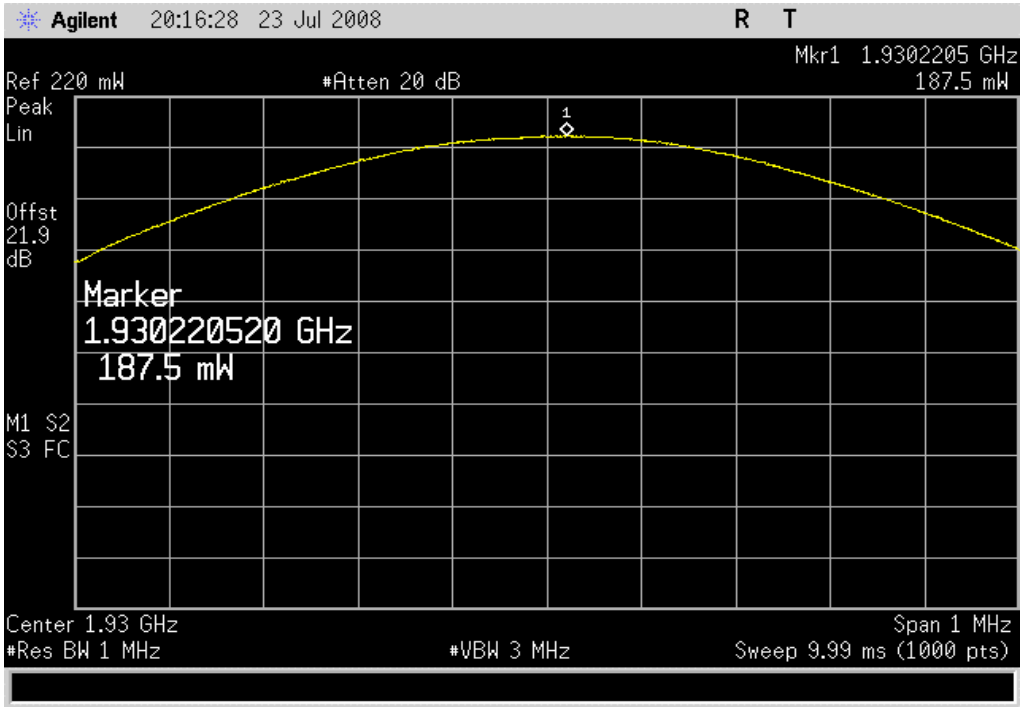
DEVIATIONS FROM TEST STANDARD

No deviations

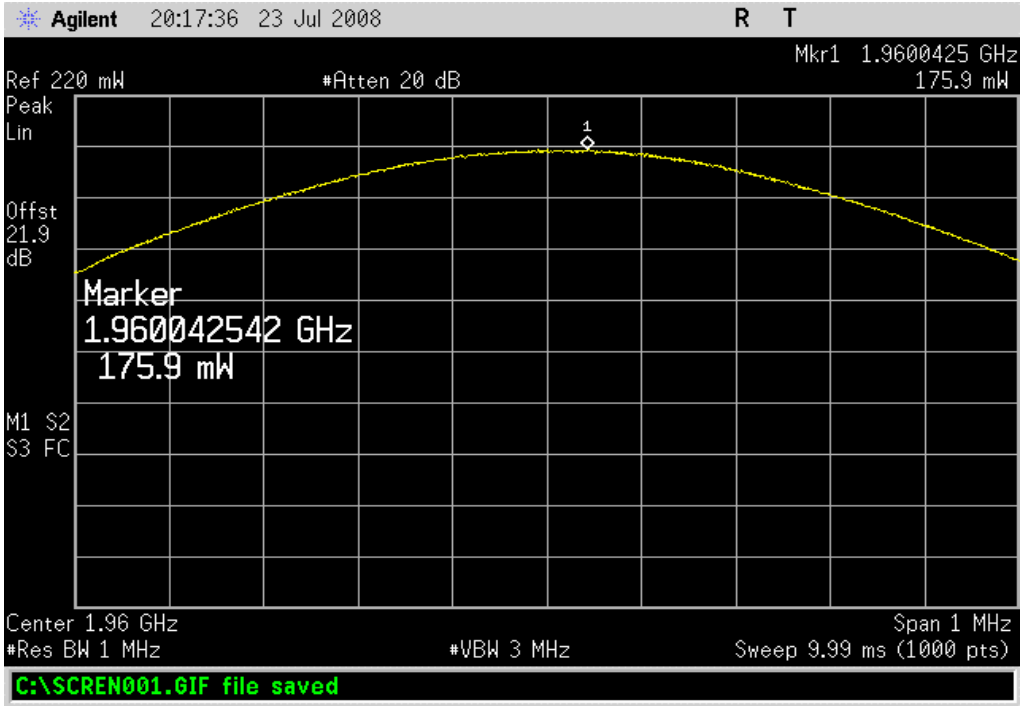
Configuration #	2	Signature Holly Ashkannejhad

		Value	Limit	Results
GSM modulation				
	High power, Atten = 0			
	Low channel, 1930.2MHz	187.5 mW	2 W	Pass
	Mid channel, 1960MHz	175.9 mW	2 W	Pass
	High channel, 1989.8MHz	181.6 mW	2 W	Pass
	Mid power, Atten = 3			
	Low channel, 1930.2MHz	28.75 mW	2 W	Pass
	Mid channel, 1960MHz	30.76 mW	2 W	Pass
	High channel, 1989.8MHz	28.16 mW	2 W	Pass
	Low power, Atten = 6			
	Low channel, 1930.2MHz	6.691 mW	2 W	Pass
	Mid channel, 1960MHz	7.823 mW	2 W	Pass
	High channel, 1989.8MHz	7.315 mW	2 W	Pass
GPRS modulation				
	High power, Atten = 0			
	Low channel, 1930.2MHz	176.3 mW	2 W	Pass
	Mid channel, 1960MHz	171.2 mW	2 W	Pass
	High channel, 1989.8MHz	174.1 mW	2 W	Pass
	Mid power, Atten = 3			
	Low channel, 1930.2MHz	27.94 mW	2 W	Pass
	Mid channel, 1960MHz	31.77 mW	2 W	Pass
	High channel, 1989.8MHz	28.29 mW	2 W	Pass
	Low power, Atten = 6			
	Low channel, 1930.2MHz	6.624 mW	2 W	Pass
	Mid channel, 1960MHz	7.741 mW	2 W	Pass
	High channel, 1989.8MHz	7.076 mW	2 W	Pass

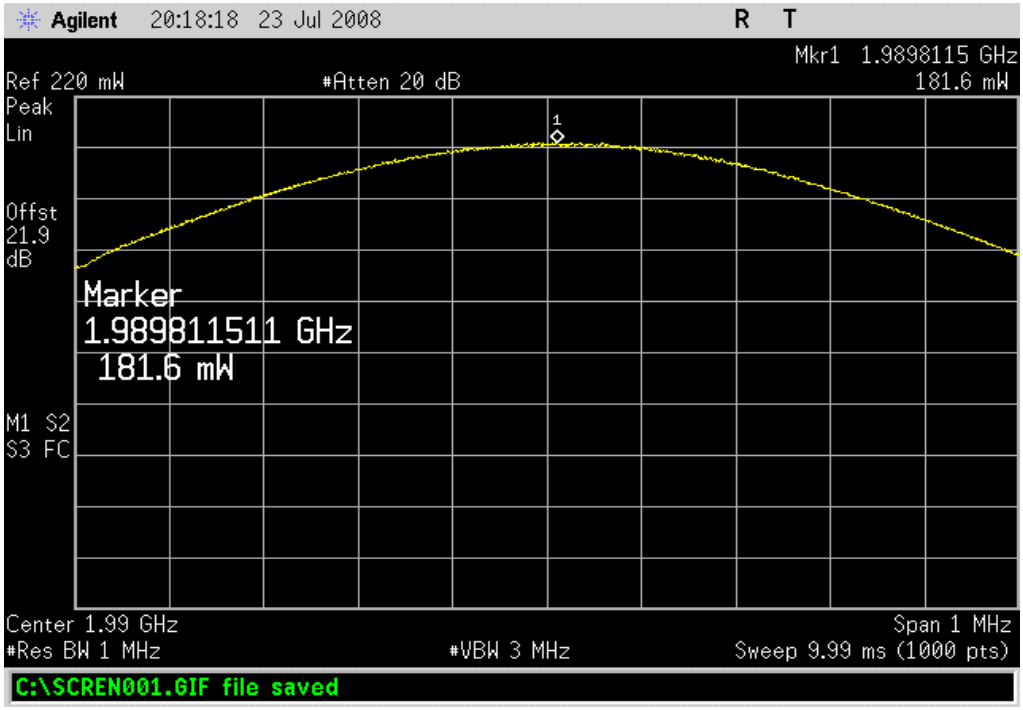
GSM modulation, High power, Atten = 0, Low channel, 1930.2MHz					
Result:	Pass	**Value:**	187.5 mW	**Limit:**	2 W



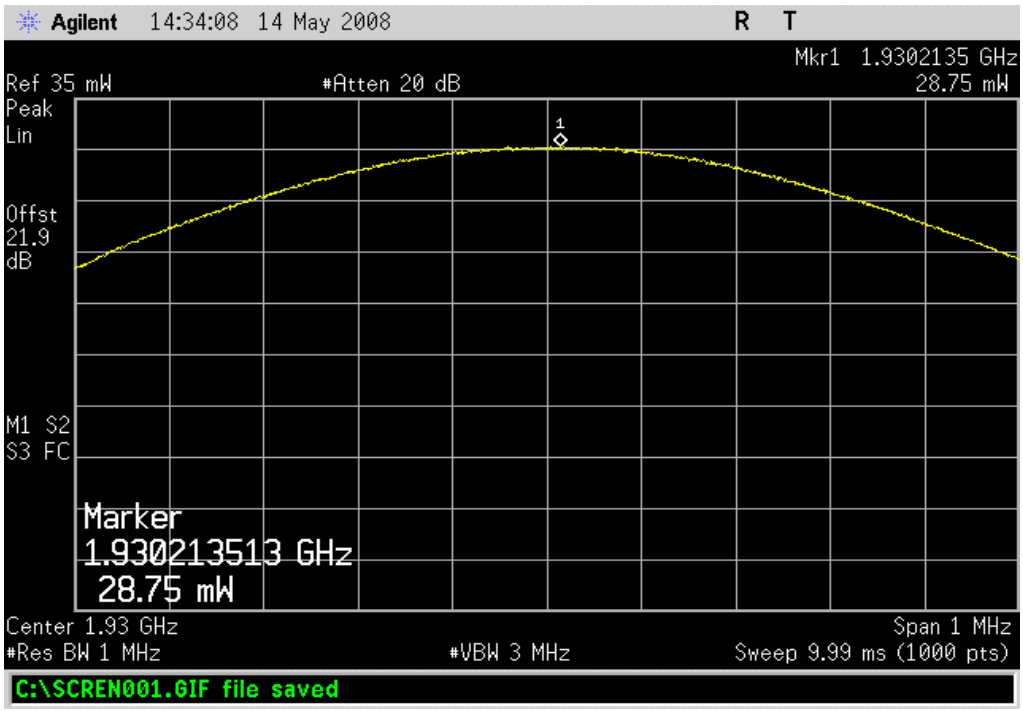
GSM modulation, High power, Atten = 0, Mid channel, 1960MHz					
Result:	Pass	**Value:**	175.9 mW	**Limit:**	2 W



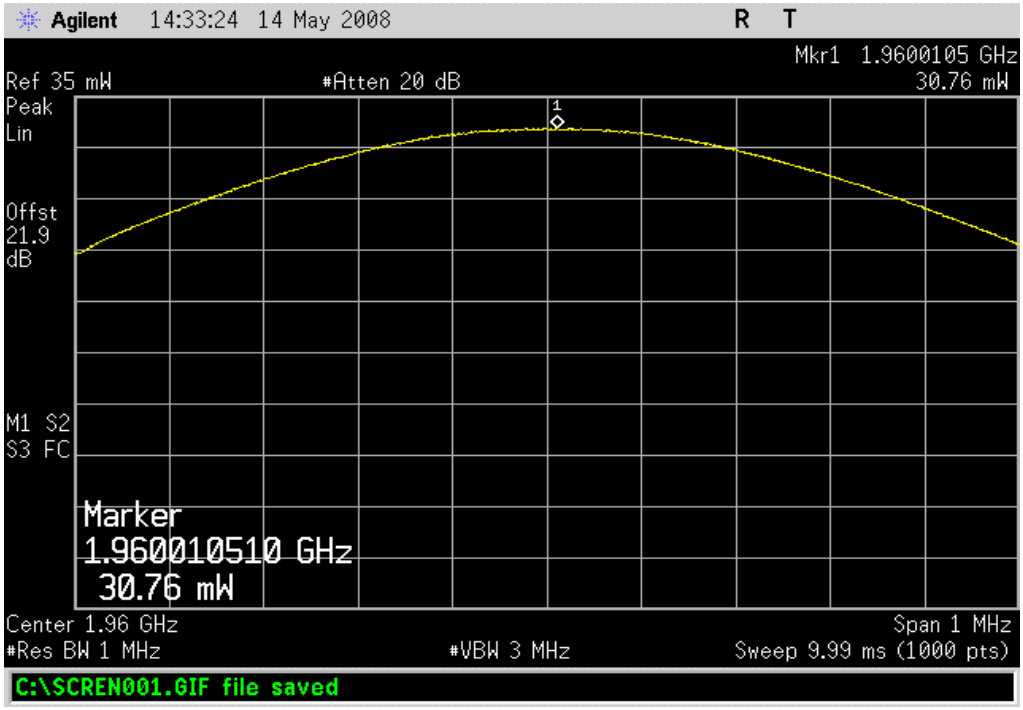
GSM modulation, High power, Atten = 0, High channel, 1989.8MHz					
Result:	Pass	**Value:**	181.6 mW	**Limit:**	2 W



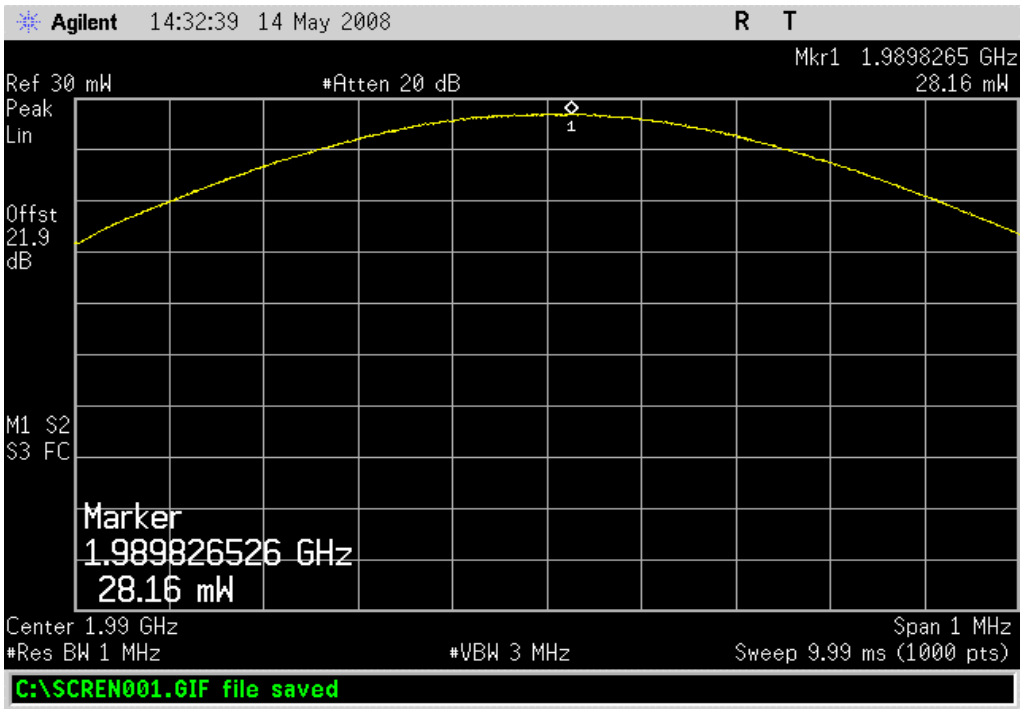
GSM modulation, Mid power, Atten = 3, Low channel, 1930.2MHz					
Result:	Pass	**Value:**	28.75 mW	**Limit:**	2 W



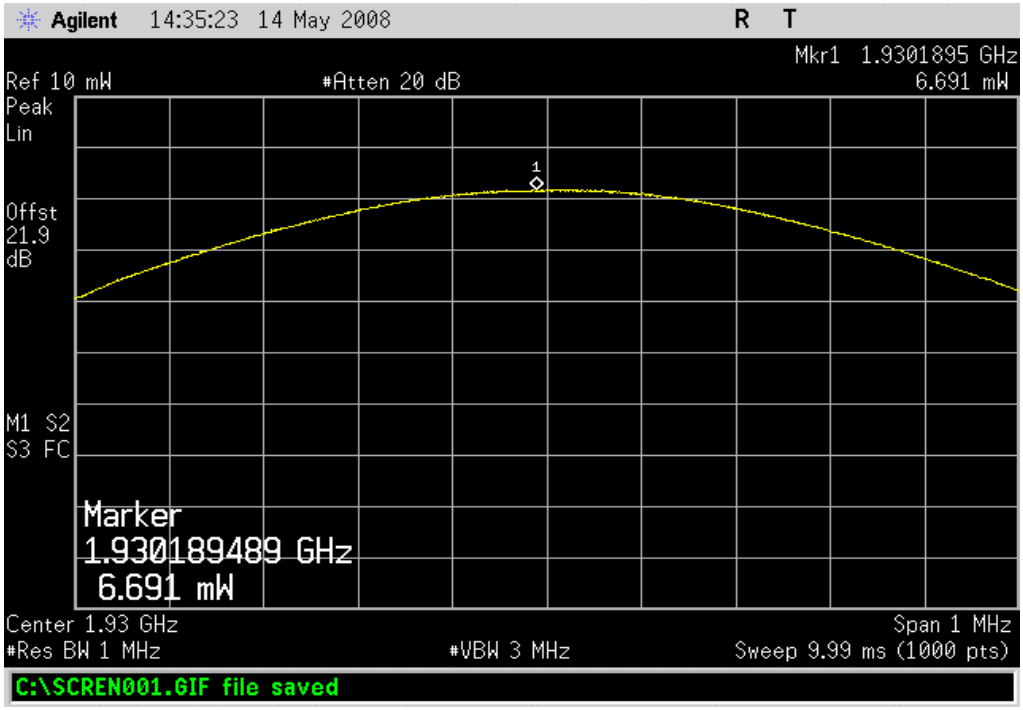
GSM modulation, Mid power, Atten = 3, Mid channel, 1960MHz					
Result:	Pass	**Value:**	30.76 mW	**Limit:**	2 W



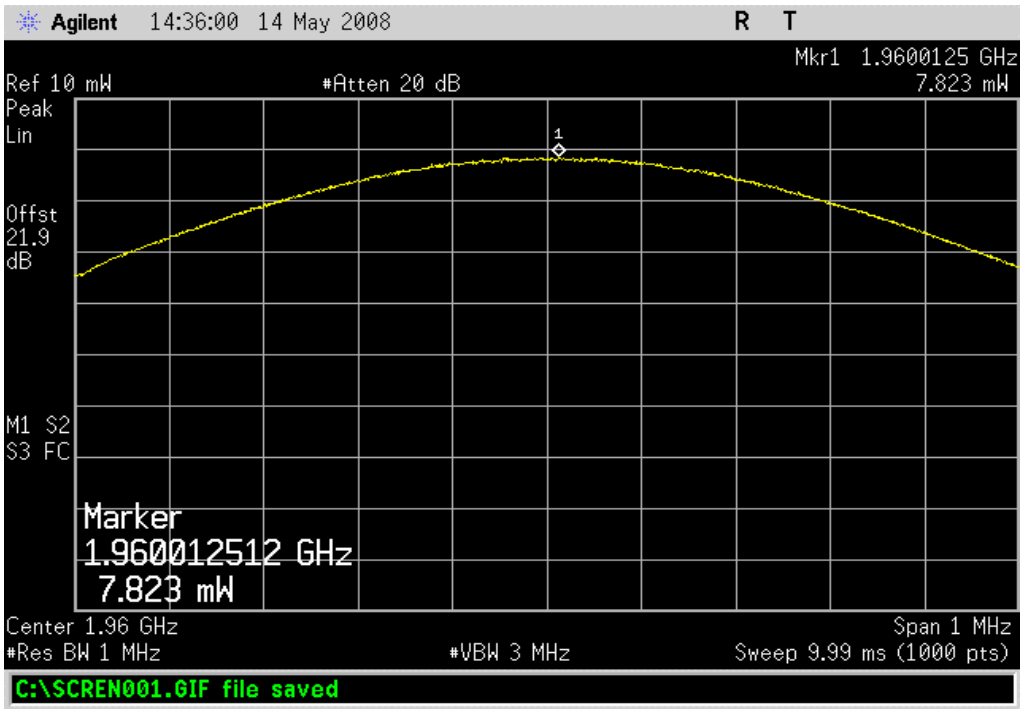
GSM modulation, Mid power, Atten = 3, High channel, 1989.8MHz					
Result:	Pass	**Value:**	28.16 mW	**Limit:**	2 W



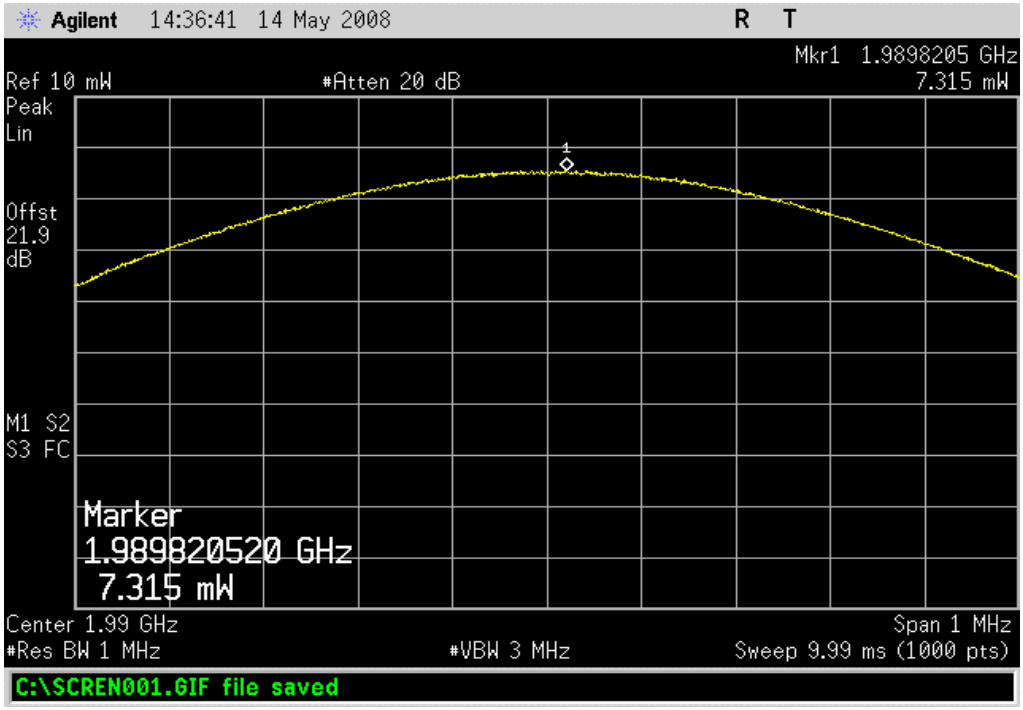
GSM modulation, Low power, Atten = 6, Low channel, 1930.2MHz					
Result:	Pass	**Value:**	6.691 mW	**Limit:**	2 W



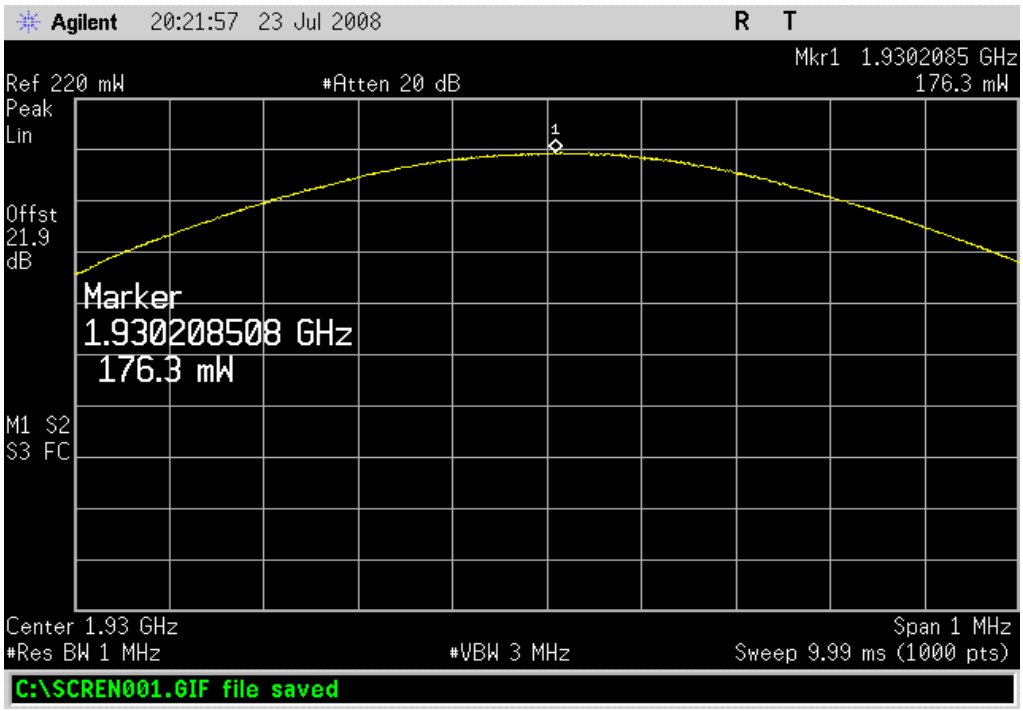
GSM modulation, Low power, Atten = 6, Mid channel, 1960MHz					
Result:	Pass	**Value:**	7.823 mW	**Limit:**	2 W



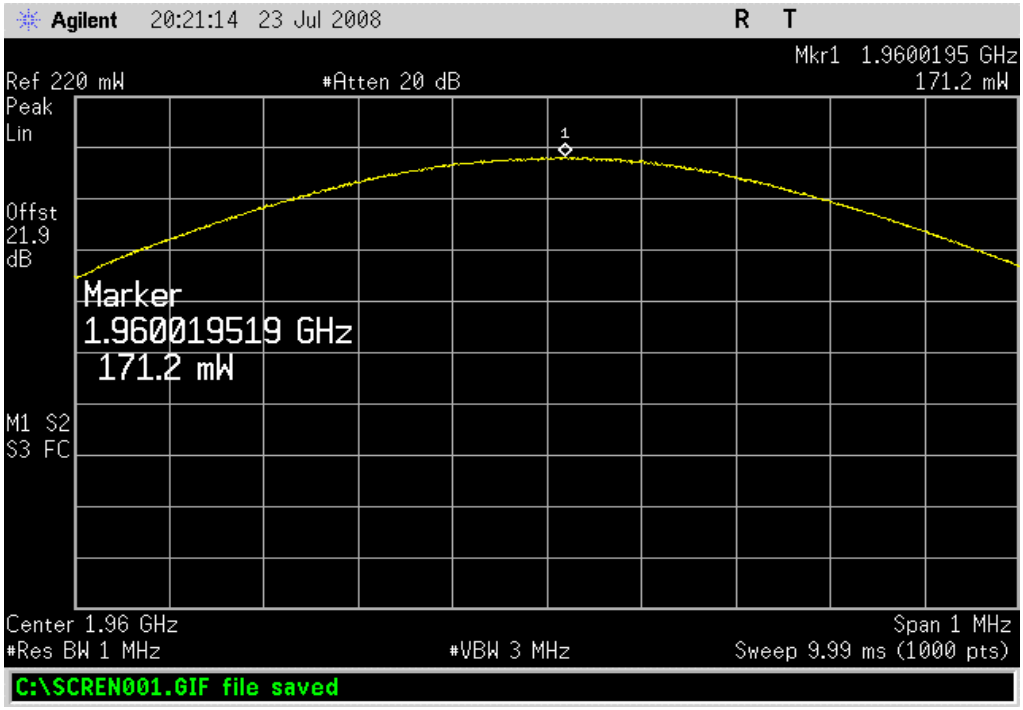
GSM modulation, Low power, Atten = 6, High channel, 1989.8MHz					
Result:	Pass	**Value:**	7.315 mW	**Limit:**	2 W



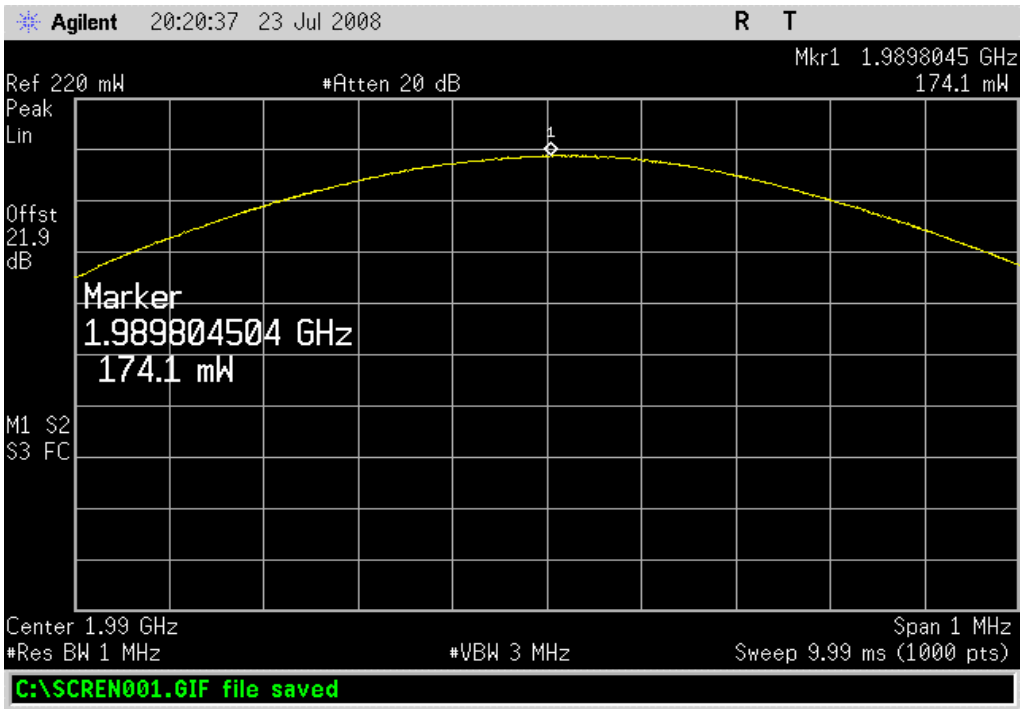
GPRS modulation, High power, Atten = 0, Low channel, 1930.2MHz					
Result:	Pass	**Value:**	176.3 mW	**Limit:**	2 W



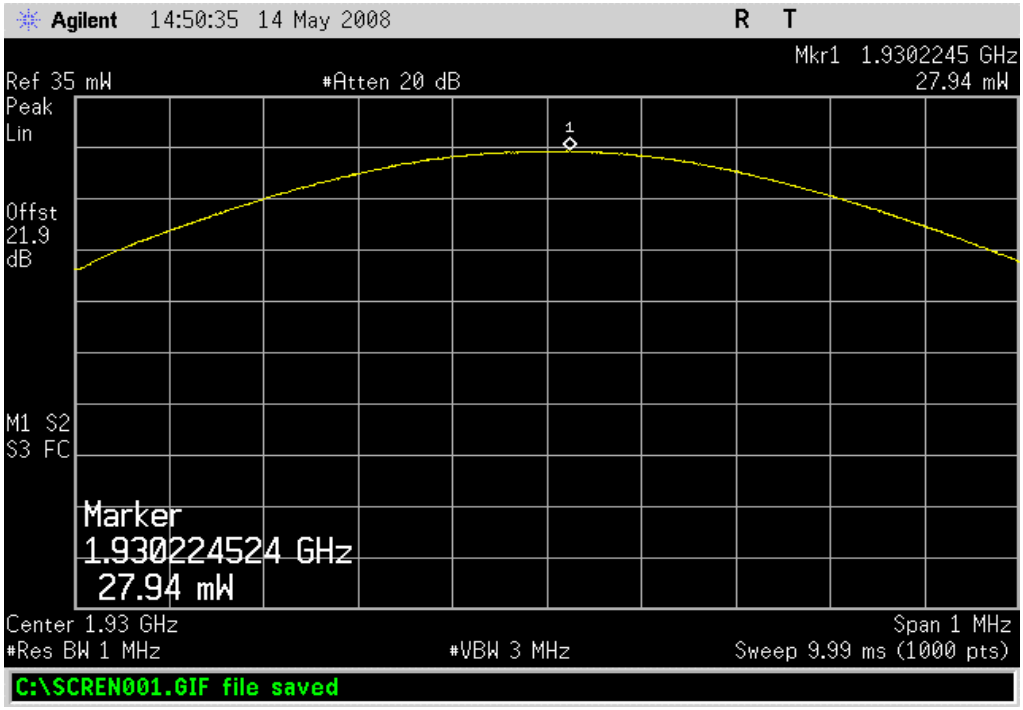
GPRS modulation, High power, Atten = 0, Mid channel, 1960MHz					
Result:	Pass	**Value:**	171.2 mW	**Limit:**	2 W



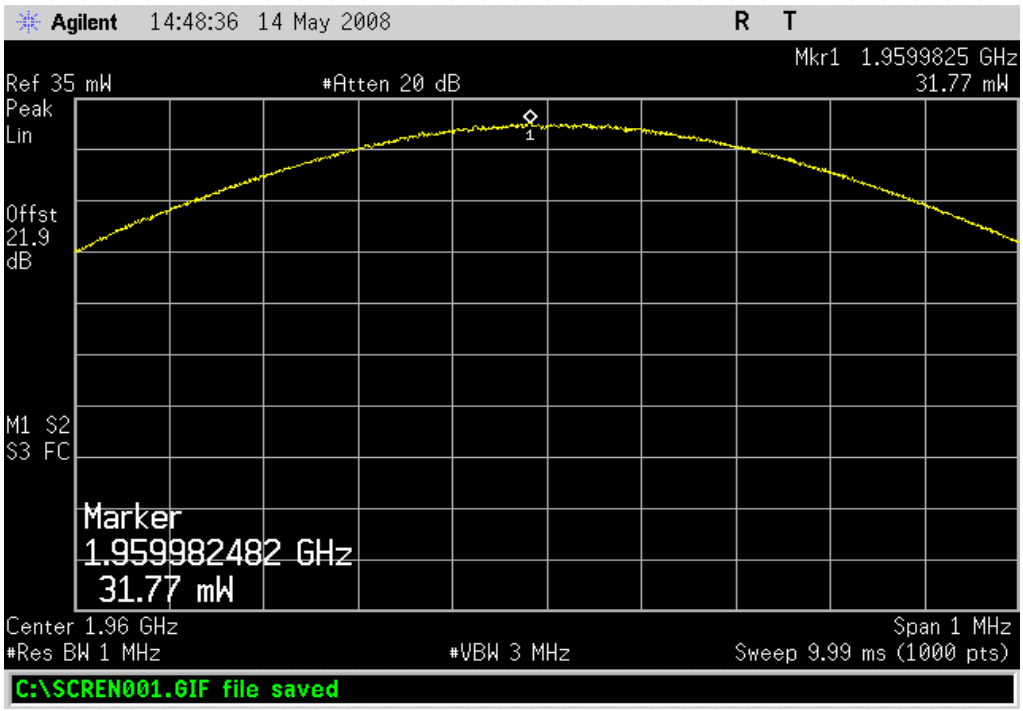
GPRS modulation, High power, Atten = 0, High channel, 1989.8MHz					
Result:	Pass	**Value:**	174.1 mW	**Limit:**	2 W



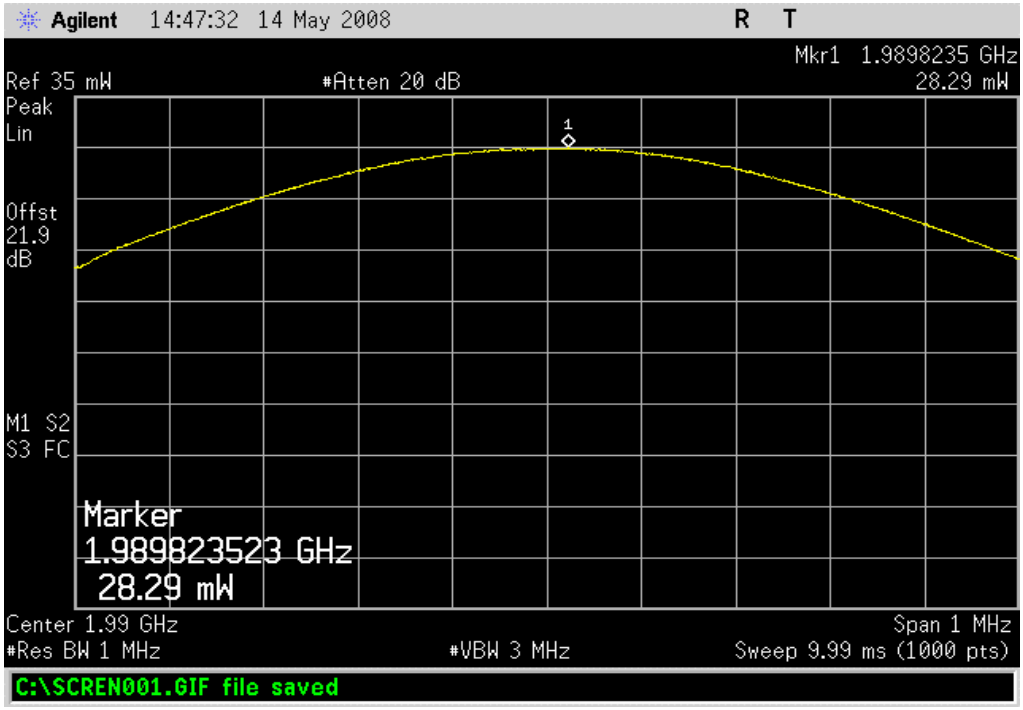
GPRS modulation, Mid power, Atten = 3, Low channel, 1930.2MHz					
Result:	Pass	**Value:**	27.94 mW	**Limit:**	2 W



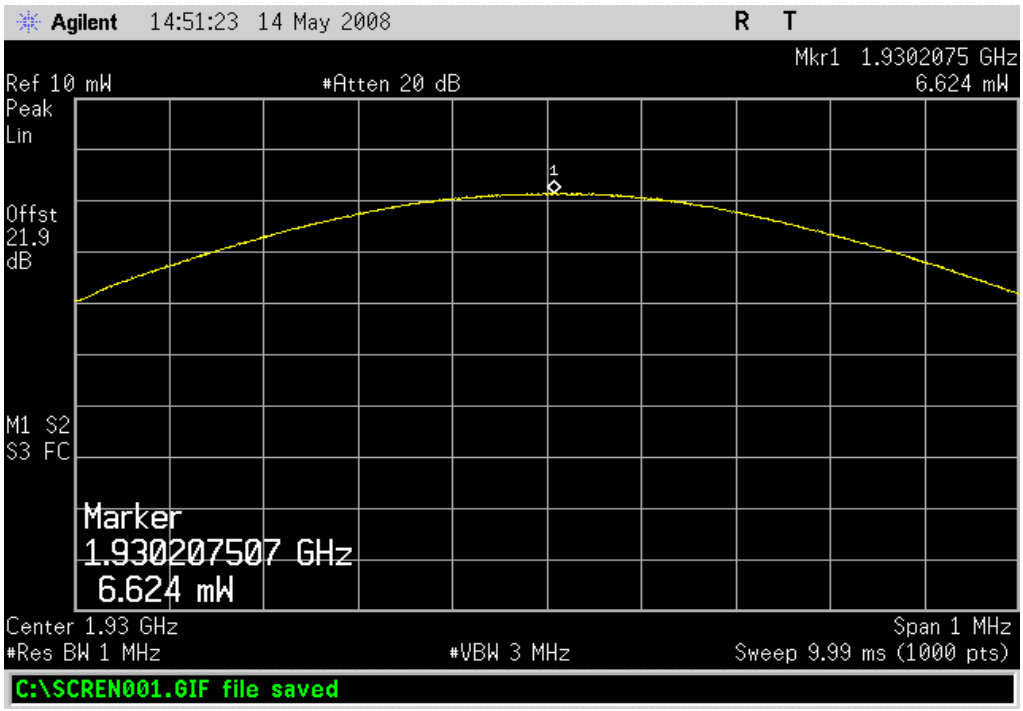
GPRS modulation, Mid power, Atten = 3, Mid channel, 1960MHz					
Result:	Pass	**Value:**	31.77 mW	**Limit:**	2 W



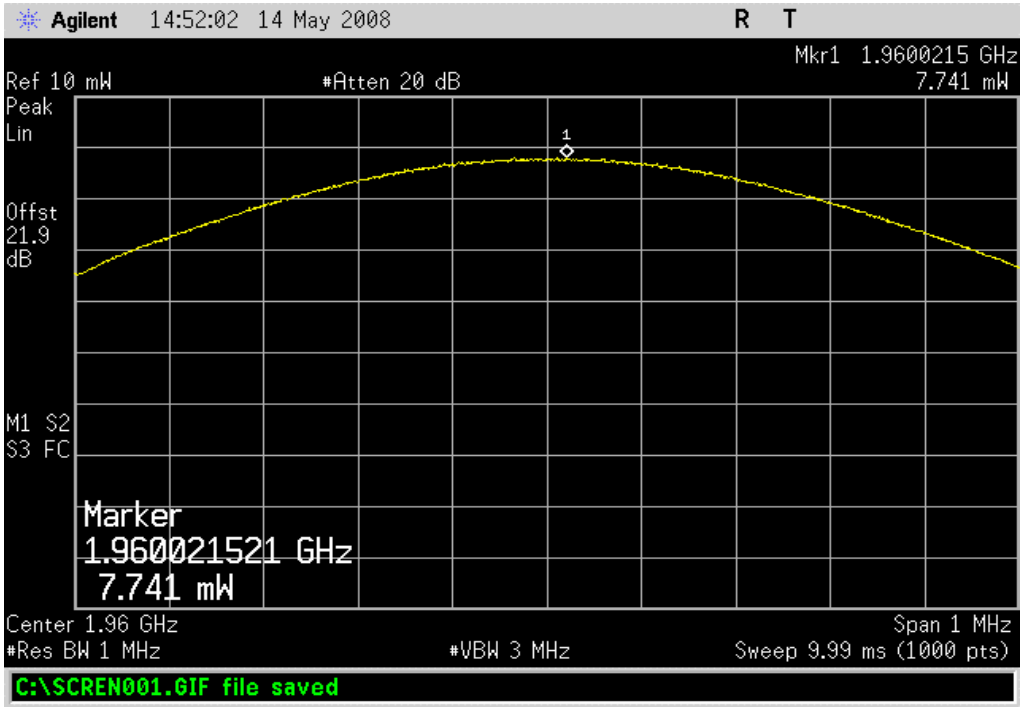
GPRS modulation, Mid power, Atten = 3, High channel, 1989.8MHz					
Result:	Pass	**Value:**	28.29 mW	**Limit:**	2 W



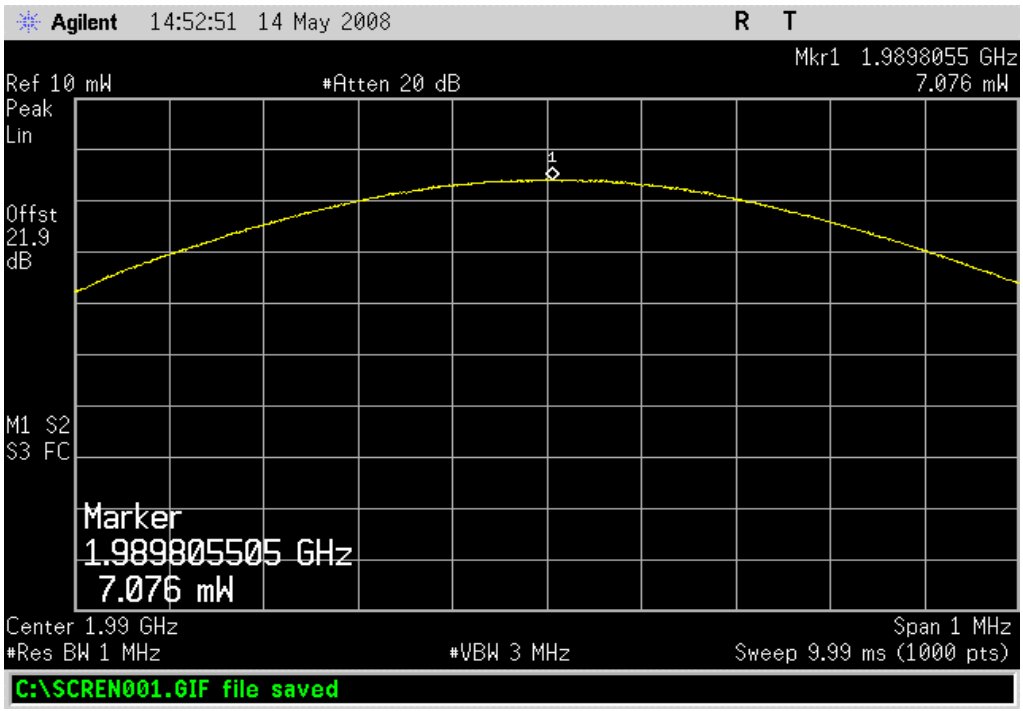
GPRS modulation, Low power, Atten = 6, Low channel, 1930.2MHz					
Result:	Pass	**Value:**	6.624 mW	**Limit:**	2 W

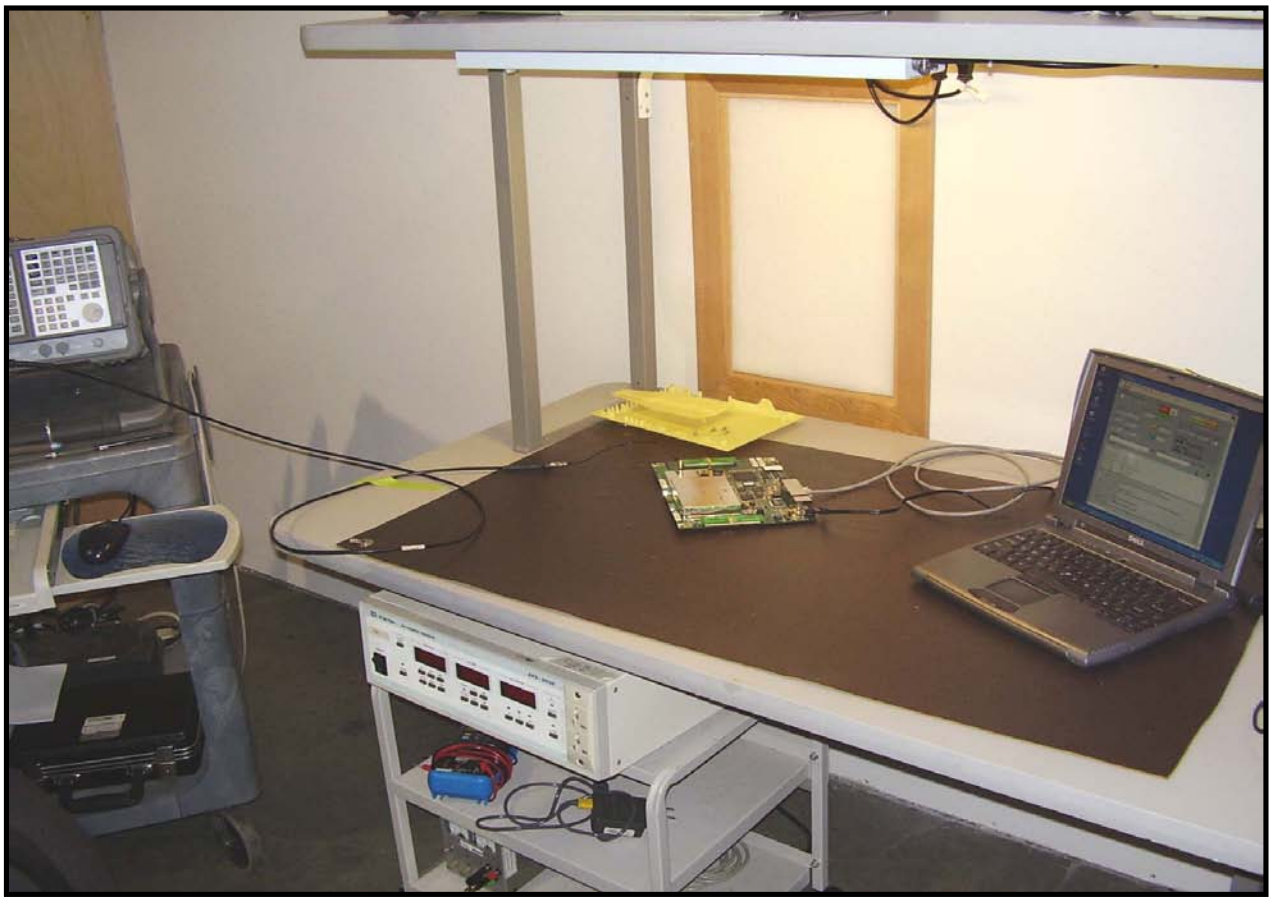


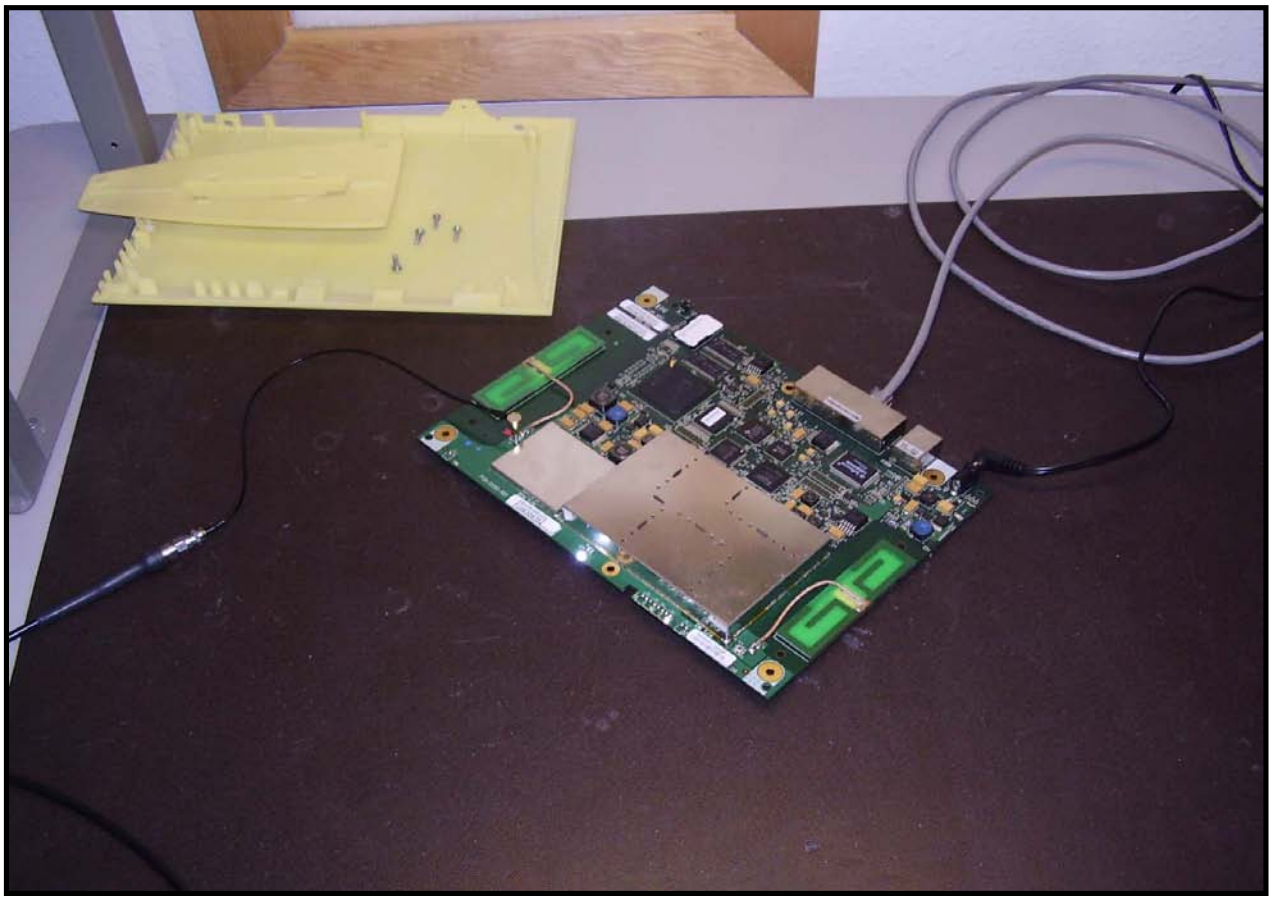
GPRS modulation, Low power, Atten = 6, Mid channel, 1960MHz					
Result:	Pass	**Value:**	7.741 mW	**Limit:**	2 W



GPRS modulation, Low power, Atten = 6, High channel, 1989.8MHz					
Result:	Pass	**Value:**	7.076 mW	**Limit:**	2 W







OUT OF BAND EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION
Transmitting, GSM, Cell band, high power, low channel
Transmitting, GSM, Cell band, high power, mid channel
Transmitting, GSM, Cell band, high power, high channel
Transmitting, GPRS, Cell band, high power, low channel
Transmitting, GPRS, Cell band, high power, mid channel
Transmitting, GPRS, Cell band, high power, high channel

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	10 GHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	19
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
EV01 Cables		Bilog Cables	EVA	10/23/2007	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	1/3/2008	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
EV01 Cables		Double Ridge Horn Cables	EVB	1/3/2008	13
High Pass Filter 1.2 - 18 GHz	Micro-Tronics	HPM50108	HFV	12/29/2006	18
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Signal Generator	Agilent	E8257D	TGX	12/7/2007	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The highest gain antenna to be used with the EUT was tested for final measurements. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.4:2003). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

For licensed transmitters, the FCC references TIA/EIA-603 as the measurement procedure standard. TIA/EIA-603 Section 2.2.12 describes a method for measuring radiated spurious emissions that utilizes an antenna substitution method:

At an approved test site, the transmitter is place on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of spurious emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a ½ wave dipole that is successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the antenna and its gain; the power (dBm) into an ideal ½ wave dipole antenna is determined for each radiated spurious emission.

For the purposes of preliminary measurements, the field strength of the spurious emissions can be measured and compared with a 3 meter limit. The 3 meter limit was calculated to be 82.5 dBuV/m at 3 meters. The final measurements must be made utilizing the substitution method described above

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/14/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

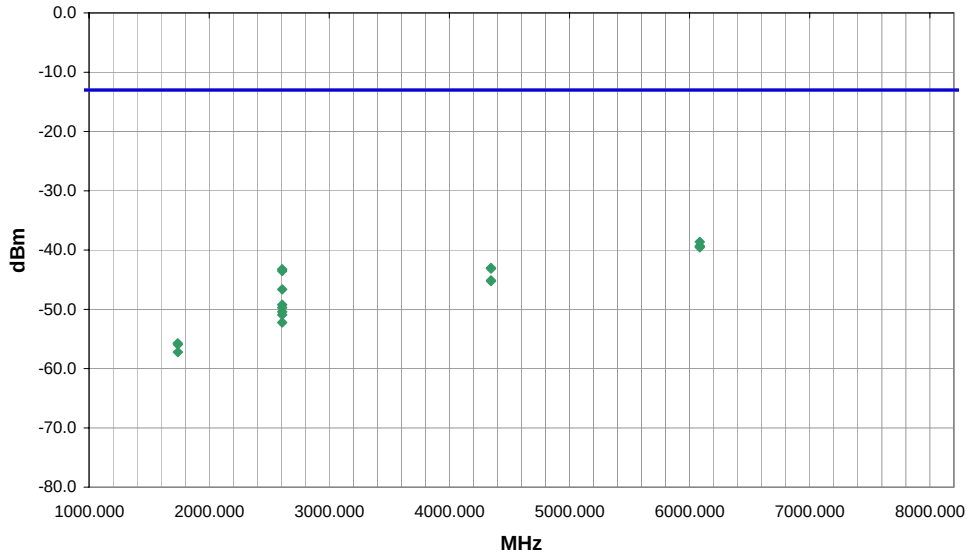
Transmitting, Cell band, high power, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	10
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6084.506			344.0	1.0			H-Horn	PK	1.37E-07	-38.6	-13.0	-25.6	GPRS - EUT on back side
6084.494			111.0	1.0			V-Horn	PK	1.17E-07	-39.3	-13.0	-26.3	GSM - EUT vertical
6084.291			346.0	1.0			H-Horn	PK	1.14E-07	-39.4	-13.0	-26.4	GSM - EUT on back side
6084.391			109.0	1.0			V-Horn	PK	1.11E-07	-39.5	-13.0	-26.5	GPRS - EUT vertical
4346.025			344.0	1.0			H-Horn	PK	4.98E-08	-43.0	-13.0	-30.0	GSM - EUT on back side
4346.070			10.0	1.0			H-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	GPRS - EUT on back side
2607.618			319.0	1.3			H-Horn	PK	4.75E-08	-43.2	-13.0	-30.2	GSM - EUT on back side
2607.604			310.0	1.3			H-Horn	PK	4.44E-08	-43.5	-13.0	-30.5	GPRS - EUT on back side
4346.038			135.0	1.0			V-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	GSM - EUT vertical
4346.152			134.0	1.0			V-Horn	PK	3.00E-08	-45.2	-13.0	-32.2	GPRS - EUT vertical
2607.504			138.0	1.0			V-Horn	PK	2.17E-08	-46.6	-13.0	-33.6	GSM - EUT vertical
2607.514			68.0	1.1			V-Horn	PK	1.19E-08	-49.2	-13.0	-36.2	GPRS - EUT vertical
2607.558			116.0	1.0			V-Horn	PK	1.06E-08	-49.7	-13.0	-36.7	GSM - EUT horizontal
2607.566			344.0	1.6			H-Horn	PK	9.06E-09	-50.4	-13.0	-37.4	GSM - EUT horizontal
2607.504			171.0	1.5			H-Horn	PK	8.07E-09	-50.9	-13.0	-37.9	GSM - EUT vertical
2607.774			64.0	1.7			V-Horn	PK	5.99E-09	-52.2	-13.0	-39.2	GSM - EUT on back side
1738.108			244.0	1.0			H-Horn	PK	2.67E-09	-55.7	-13.0	-42.7	GSM - EUT on back side
1739.114			112.0	1.0			V-Horn	PK	2.55E-09	-55.9	-13.0	-42.9	GPRS - EUT vertical
1738.918			118.0	1.0			V-Horn	PK	1.89E-09	-57.2	-13.0	-44.2	GSM - EUT vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/14/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

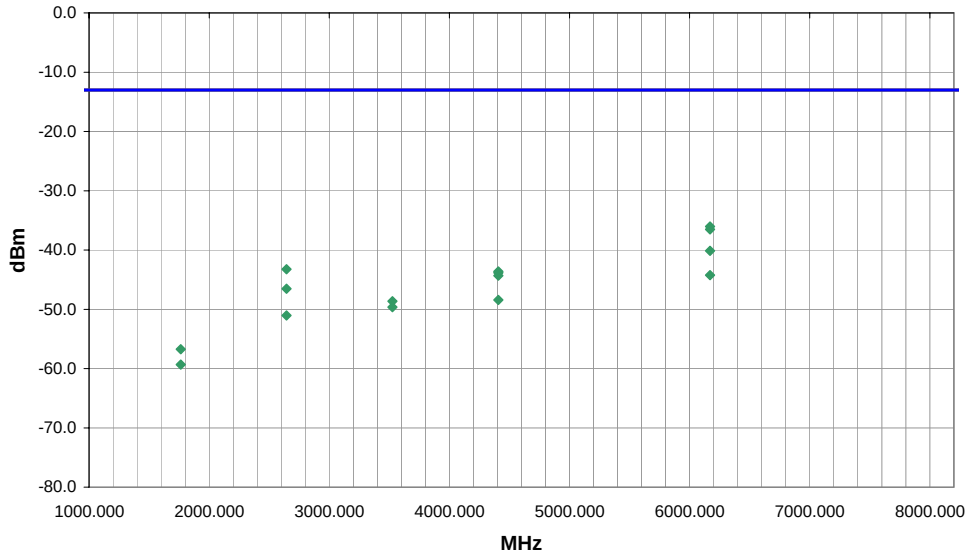
Transmitting, Cell band, high power, mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	11
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6169.792			331.0	1.0			H-Horn	PK	2.50E-07	-36.0	-13.0	-23.0	GSM - EUT on back side
6169.785			331.0	1.0			H-Horn	PK	2.22E-07	-36.5	-13.0	-23.5	GPRS - EUT on back side
6169.810			158.0	1.0			V-Horn	PK	9.71E-08	-40.1	-13.0	-27.1	GSM - EUT vertical
2644.235			300.0	1.3			H-Horn	PK	4.75E-08	-43.2	-13.0	-30.2	GPRS - EUT on back side
4407.095			130.0	1.0			V-Horn	PK	4.34E-08	-43.6	-13.0	-30.6	GSM - EUT vertical
4406.928			354.0	1.0			H-Horn	PK	4.14E-08	-43.8	-13.0	-30.8	GPRS - EUT on back side
6169.795			108.0	1.0			V-Horn	PK	3.78E-08	-44.2	-13.0	-31.2	GPRS - EUT vertical
4407.072			352.0	1.0			H-Horn	PK	3.69E-08	-44.3	-13.0	-31.3	GSM - EUT on back side
2644.352			252.0	1.3			H-Horn	PK	2.22E-08	-46.5	-13.0	-33.5	GSM - EUT on back side
4407.005			132.0	1.0			V-Horn	PK	1.44E-08	-48.4	-13.0	-35.4	GPRS - EUT vertical
3525.835			342.0	1.3			H-Horn	PK	1.37E-08	-48.6	-13.0	-35.6	GSM - EUT on back side
3525.568			114.0	1.0			V-Horn	PK	1.09E-08	-49.6	-13.0	-36.6	GSM - EUT vertical
2644.128			155.0	1.2			V-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	GSM - EUT vertical
1762.812			255.0	1.3			H-Horn	PK	2.12E-09	-56.7	-13.0	-43.7	GSM - EUT on back side
1762.800			109.0	1.1			V-Horn	PK	1.17E-09	-59.3	-13.0	-46.3	GSM - EUT vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/14/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	Nha Tran	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 22H:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

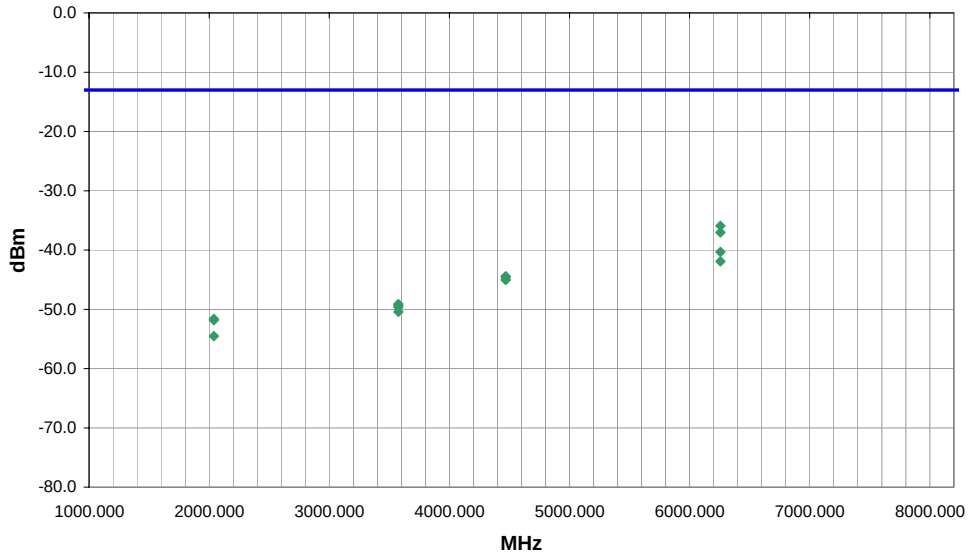
Transmitting, Cell band, high power, high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

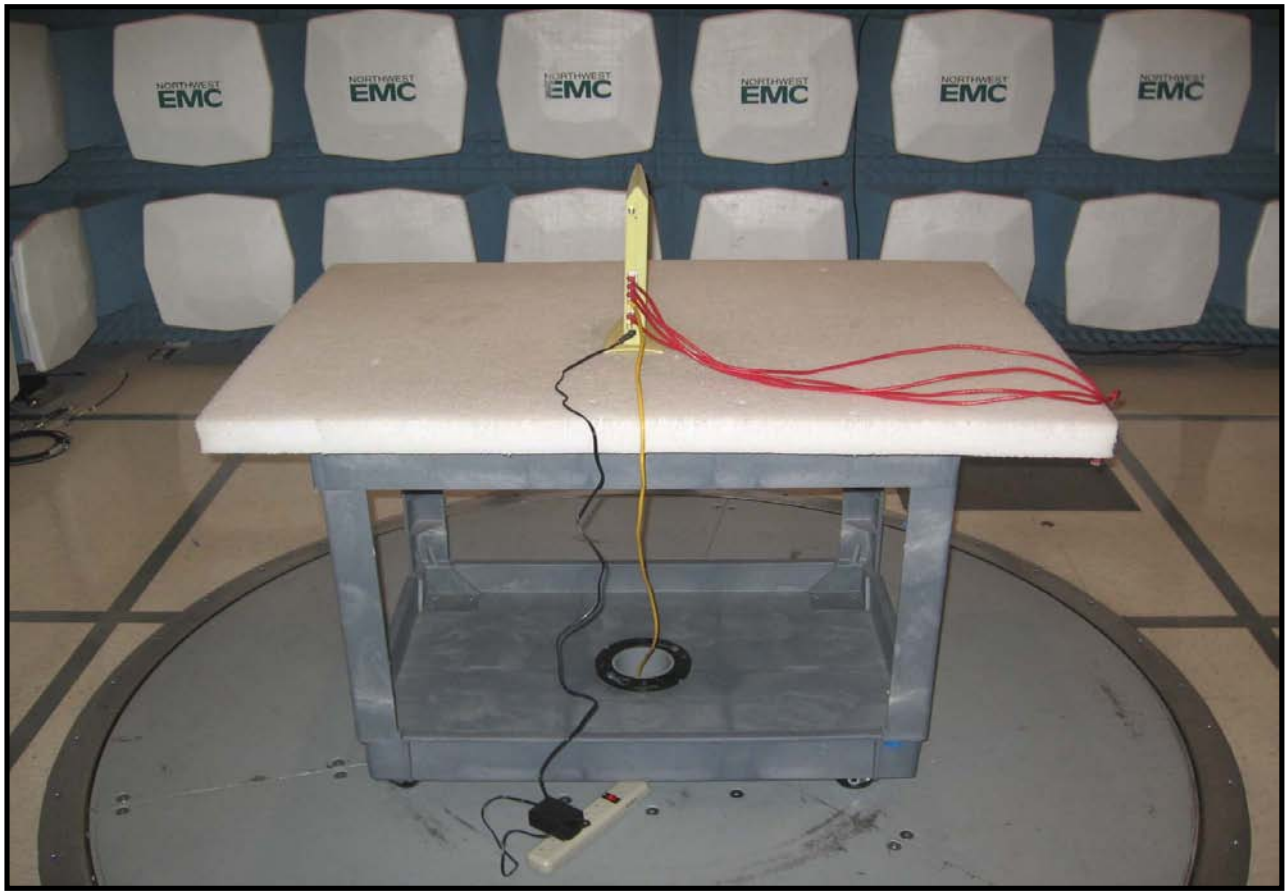
Run #	12
Configuration #	1
Results	Pass

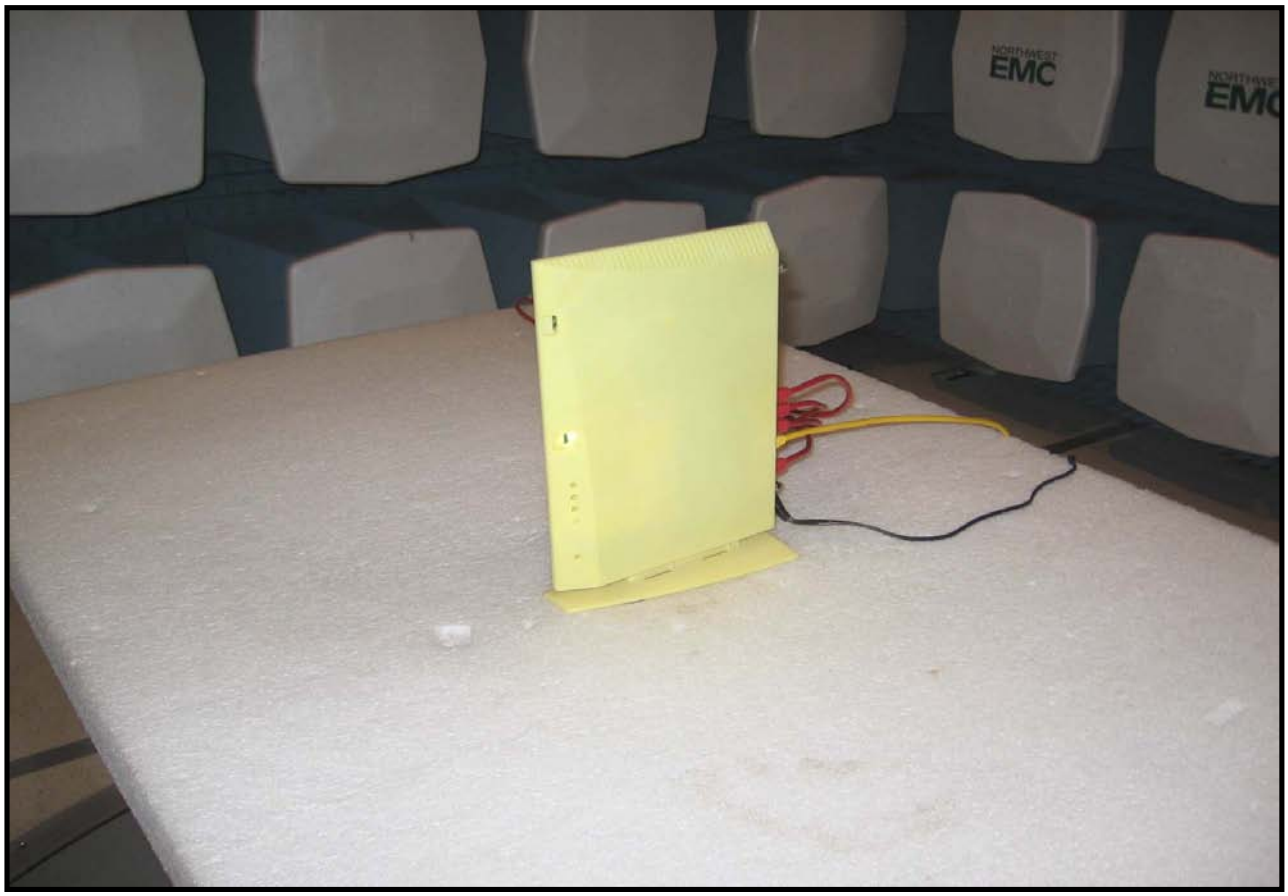
Signature

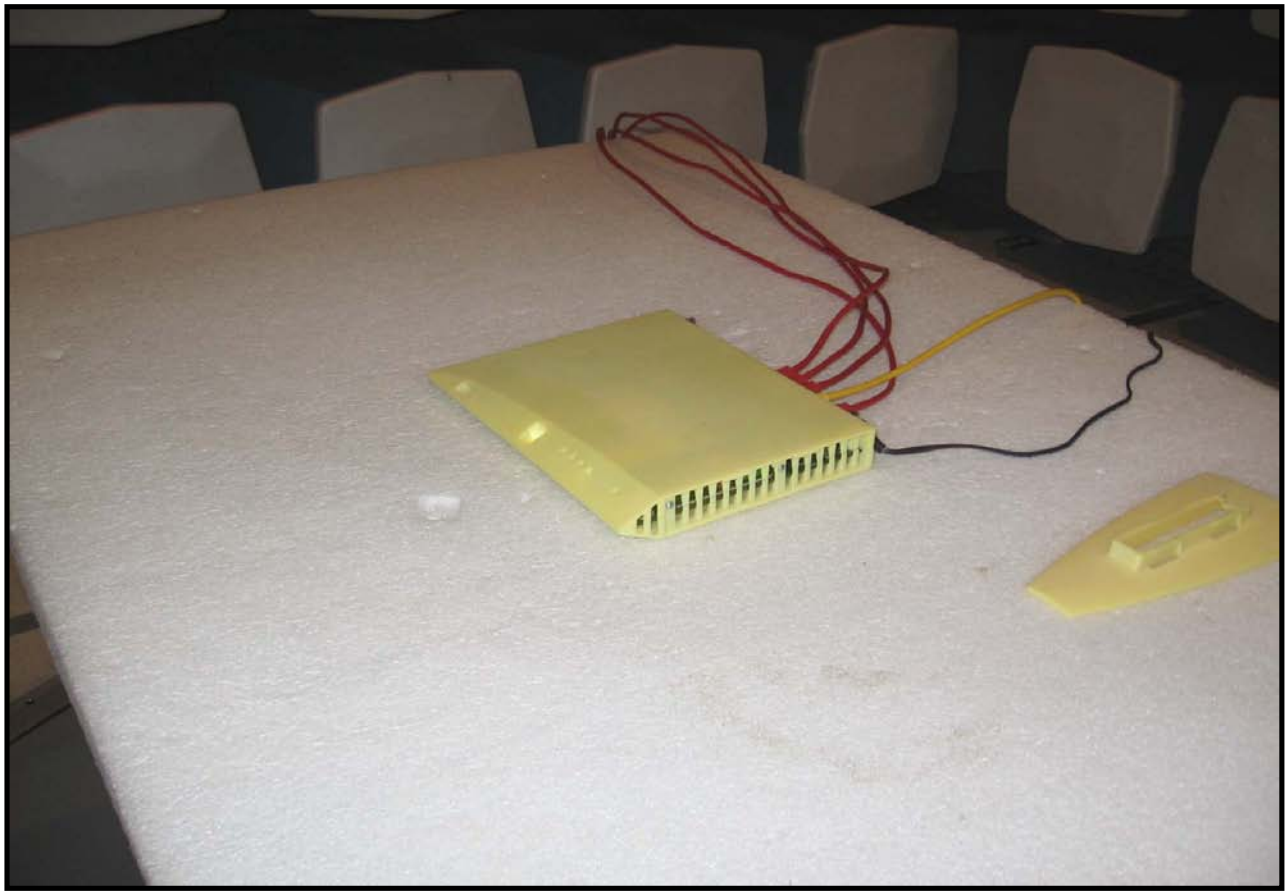


Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
6256.530			334.0	1.0			H-Horn	PK	2.55E-07	-35.9	-13.0	-22.9	GSM - EUT on back side
6256.532			333.0	1.0			H-Horn	PK	1.98E-07	-37.0	-13.0	-24.0	GPRS - EUT on back side
6256.652			163.0	1.0			V-Horn	PK	9.27E-08	-40.3	-13.0	-27.3	GSM - EUT vertical
6256.542			61.0	1.2			V-Horn	PK	6.41E-08	-41.9	-13.0	-28.9	GPRS - EUT on back side
4468.932			66.0	1.1			V-Horn	PK	3.61E-08	-44.4	-13.0	-31.4	GPRS - EUT on back side
4469.005			353.0	1.3			H-Horn	PK	3.52E-08	-44.5	-13.0	-31.5	GPRS - EUT on back side
4468.798			131.0	1.1			V-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	GSM - EUT vertical
4469.010			345.0	1.3			H-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	GSM - EUT on back side
3575.198			304.0	1.2			H-Horn	PK	1.22E-08	-49.1	-13.0	-36.1	GSM - EUT on back side
3575.235			315.0	1.2			H-Horn	PK	1.17E-08	-49.3	-13.0	-36.3	GPRS - EUT on back side
3575.198			113.0	1.1			V-Horn	PK	1.09E-08	-49.6	-13.0	-36.6	GSM - EUT vertical
3575.288			106.0	1.1			V-Horn	PK	9.06E-09	-50.4	-13.0	-37.4	GPRS - EUT on back side
2038.790			198.0	1.1			V-Horn	PK	6.87E-09	-51.6	-13.0	-38.6	GPRS - EUT on back side
2038.928			199.0	1.1			V-Horn	PK	6.56E-09	-51.8	-13.0	-38.8	GSM - EUT vertical
2038.804			-1.0	1.9			H-Horn	PK	3.52E-09	-54.5	-13.0	-41.5	GSM - EUT on back side

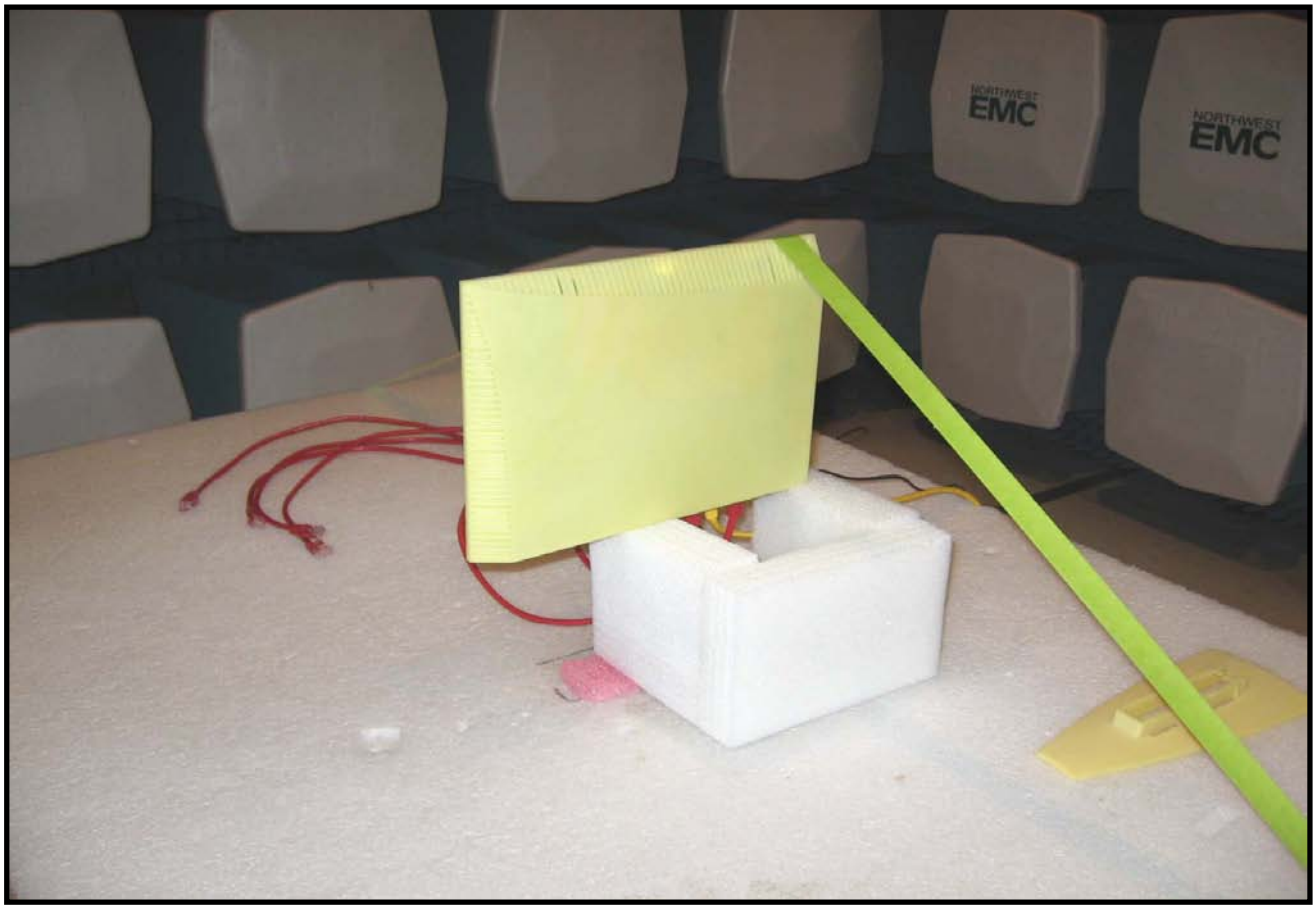

NORTHWEST EMC


NORTHWEST EMC


NORTHWEST
EMC



OUT OF BAND EMISSIONS



OUT OF BAND EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION
Transmitting GSM, PCS band, high power, low channel
Transmitting GSM, PCS band, high power, mid channel
Transmitting GSM, PCS band, high power, high channel
Transmitting GPRS, PCS band, high power, low channel
Transmitting GPRS, PCS band, high power, mid channel
Transmitting GPRS, PCS band, high power, high channel

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	20 GHz

SAMPLE CALCULATIONS
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	19
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
EV01 Cables		Bilog Cables	EVA	10/23/2007	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	1/3/2008	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
EV01 Cables		Double Ridge Horn Cables	EVB	1/3/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/22/2007	13
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 Cables		Standard Gain Horns Cables	EVF	10/23/2007	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/22/2007	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
EV01 Cables		Standard Gain Horns Cables	EVF	10/23/2007	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	7/25/2007	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	1/16/2008	13
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Signal Generator	Agilent	E8257D	TGX	12/7/2007	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.				

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The highest gain antenna to be used with the EUT was tested for final measurements. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.4:2003). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

For licensed transmitters, the FCC references TIA/EIA-603 as the measurement procedure standard. TIA/EIA-603 Section 2.2.12 describes a method for measuring radiated spurious emissions that utilizes an antenna substitution method:

At an approved test site, the transmitter is place on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of spurious emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a ½ wave dipole that is successively tuned to each of the highest spurious emissions for emissions below 1 GHz, and a horn antenna for emissions above 1 GHz. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the antenna and its gain; the power (dBm) into an ideal ½ wave dipole antenna is determined for each radiated spurious emission.

For the purposes of preliminary measurements, the field strength of the spurious emissions can be measured and compared with a 3 meter limit. The 3 meter limit was calculated to be 82.5 dBuV/m at 3 meters. The final measurements must be made utilizing the substitution method described above

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	Nha Tran	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

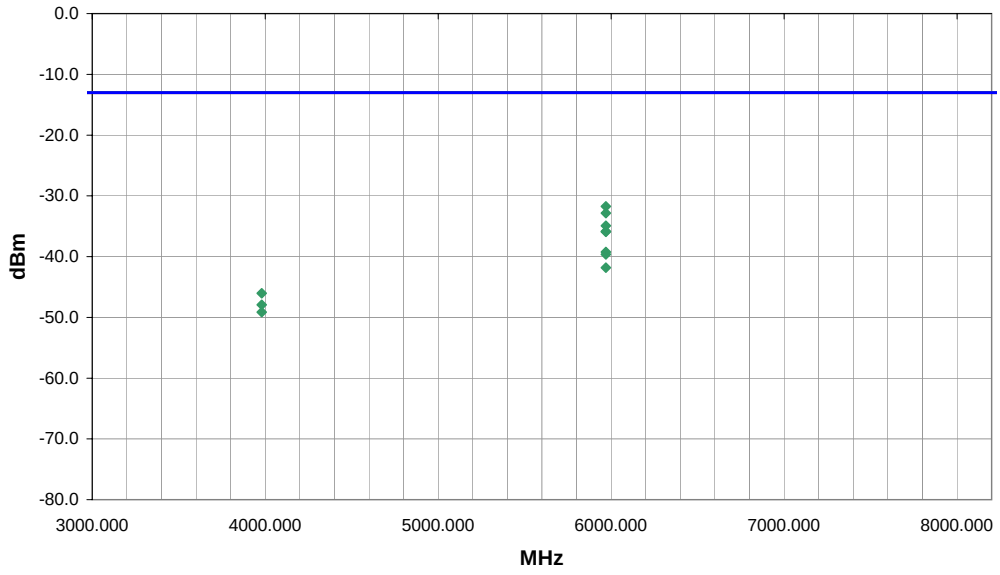
Transmitting GSM, PCS band, high power, high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5969.375			344.0	1.2			H-Horn	PK	6.72E-07	-31.7	-13.0	-18.7	GSM - EUT on side
5969.365			328.0	1.1			H-Horn	PK	5.21E-07	-32.8	-13.0	-19.8	GPRS - EUT on side
5969.298			287.0	1.9			V-Horn	PK	3.21E-07	-34.9	-13.0	-21.9	GSM - EUT horizontal
5969.367			70.0	1.0			V-Horn	PK	2.61E-07	-35.8	-13.0	-22.8	GSM - EUT vertical
5969.355			276.0	1.4			V-Horn	PK	2.55E-07	-35.9	-13.0	-22.9	GPRS - EUT horizontal
5969.395			235.0	1.2			V-Horn	PK	1.19E-07	-39.2	-13.0	-26.2	GSM - EUT on side
5969.428			249.0	1.6			H-Horn	PK	1.09E-07	-39.6	-13.0	-26.6	GSM - EUT horizontal
5969.316			130.0	1.0			H-Horn	PK	6.56E-08	-41.8	-13.0	-28.8	GSM - EUT vertical
3979.533			288.0	1.2			H-Horn	PK	2.50E-08	-46.0	-13.0	-33.0	GSM - EUT on side
3979.507			324.0	1.4			H-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	GPRS - EUT on side
3979.407			159.0	1.0			V-Horn	PK	1.22E-08	-49.1	-13.0	-36.1	GPRS - EUT horizontal

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	Nha Tran	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

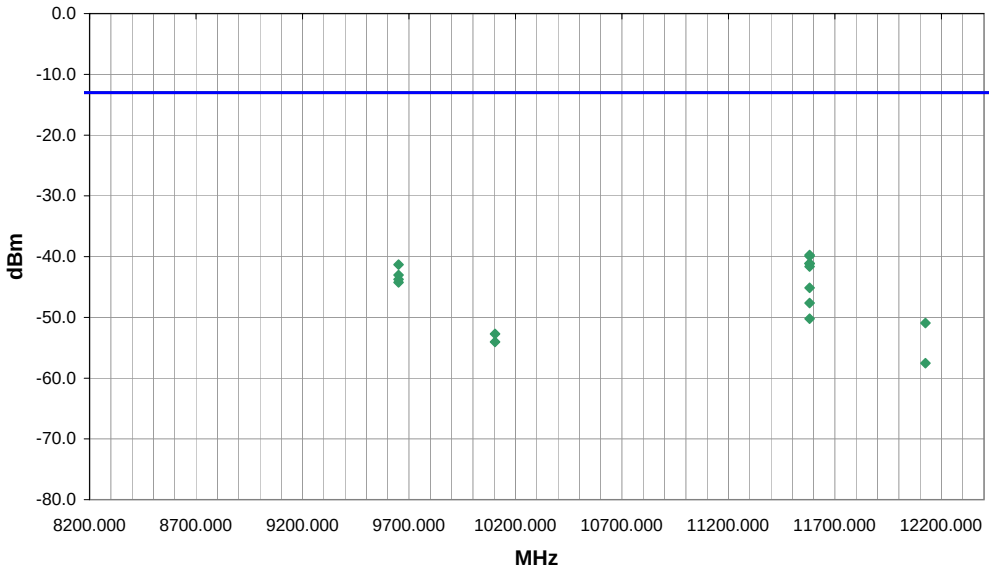
Transmitting, PCS band, high power, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11581.290			278.0	1.0			H-Horn	PK	1.06E-07	-39.7	-13.0	-26.7	GSM - EUT on side
11581.180			110.0	1.0			V-Horn	PK	1.02E-07	-39.9	-13.0	-26.9	GSM - EUT vertical
11581.220			258.0	1.0			H-Horn	PK	7.71E-08	-41.1	-13.0	-28.1	GPRS - EUT on side
11581.300			87.0	1.1			V-Horn	PK	7.71E-08	-41.1	-13.0	-28.1	GPRS - EUT vertical
9651.122			345.0	1.0			H-Horn	PK	7.36E-08	-41.3	-13.0	-28.3	GSM - EUT on side
11581.180			300.0	1.0			V-Horn	PK	6.87E-08	-41.6	-13.0	-28.6	GSM - EUT horizontal
9650.962			339.0	1.0			H-Horn	PK	4.98E-08	-43.0	-13.0	-30.0	GPRS - EUT on side
9650.980			99.0	1.0			V-Horn	PK	4.24E-08	-43.7	-13.0	-30.7	GPRS - EUT vertical
9651.155			110.0	1.0			V-Horn	PK	3.78E-08	-44.2	-13.0	-31.2	GSM - EUT vertical
11581.240			179.0	1.0			H-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	GSM - EUT vertical
11581.340			301.0	1.1			V-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	GSM - EUT on side
11581.220			-1.0	1.1			H-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	GSM - EUT horizontal
12124.750			168.0	1.0			H-Horn	PK	8.07E-09	-50.9	-13.0	-37.9	GSM - EUT on side
10104.120			360.0	1.0			H-Horn	PK	5.33E-09	-52.7	-13.0	-39.7	GSM - EUT on side
10103.950			61.0	1.0			V-Horn	PK	3.95E-09	-54.0	-13.0	-41.0	GSM - EUT vertical
12124.780			82.0	1.3			V-Horn	PK	1.77E-09	-57.5	-13.0	-44.5	GSM - EUT vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	Nha Tran	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

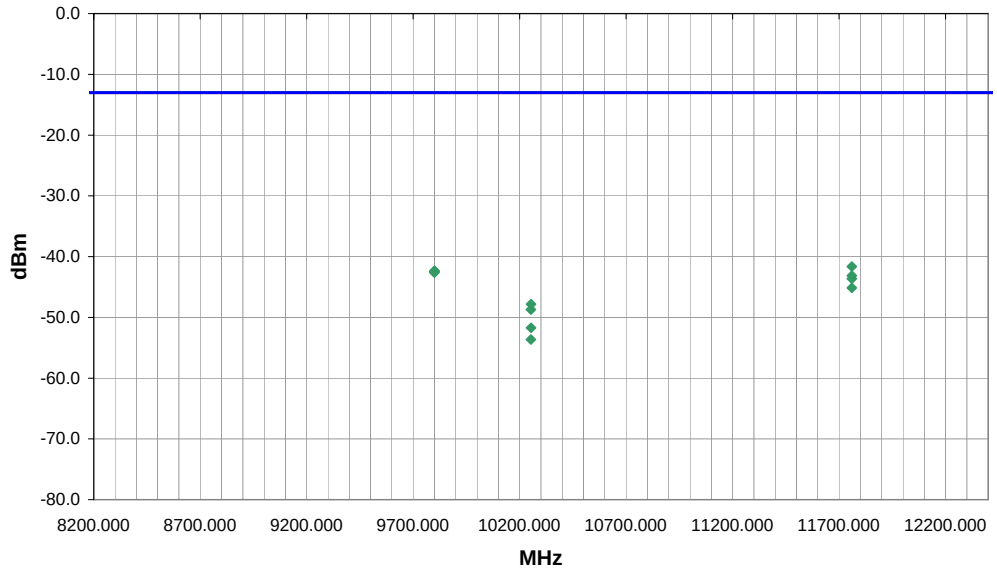
Transmitting GSM, PCS band, high power, mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	5
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11760.050			102.0	1.0			V-Horn	PK	6.87E-08	-41.6	-13.0	-28.6	GSM - EUT vertical
9800.041			99.0	1.0			V-Horn	PK	5.85E-08	-42.3	-13.0	-29.3	GPRS - EUT vertical
9799.934			268.0	1.0			H-Horn	PK	5.72E-08	-42.4	-13.0	-29.4	GPRS - EUT on side
9799.961			100.0	1.0			V-Horn	PK	5.59E-08	-42.5	-13.0	-29.5	GSM - EUT vertical
9799.920			270.0	1.0			H-Horn	PK	5.46E-08	-42.6	-13.0	-29.6	GSM - EUT on side
11759.920			259.0	1.0			H-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	GSM - EUT on side
11760.010			259.0	1.0			H-Horn	PK	4.34E-08	-43.6	-13.0	-30.6	GPRS - EUT on side
11759.950			100.0	1.0			V-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	GPRS - EUT vertical
10253.050			312.0	1.0			H-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	GSM - EUT on side
10252.870			314.0	1.0			H-Horn	PK	1.34E-08	-48.7	-13.0	-35.7	GPRS - EUT on side
10253.170			60.0	1.1			V-Horn	PK	6.72E-09	-51.7	-13.0	-38.7	GSM - EUT vertical
10252.670			50.0	1.1			V-Horn	PK	4.34E-09	-53.6	-13.0	-40.6	GPRS - EUT vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	Nha Tran	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

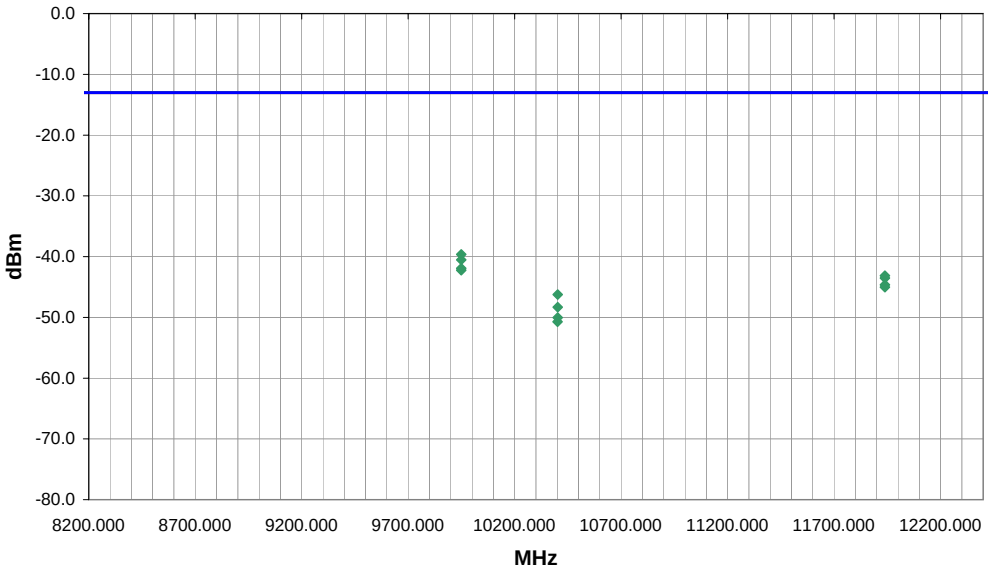
Transmitting, PCS band, high power, high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	6
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
9948.941			341.0	1.0			H-Horn	PK	1.09E-07	-39.6	-13.0	-26.6	GSM - EUT on side
9949.191			322.0	1.0			H-Horn	PK	8.85E-08	-40.5	-13.0	-27.5	GPRS - EUT on side
9949.058			106.0	1.0			V-Horn	PK	6.41E-08	-41.9	-13.0	-28.9	GSM - EUT vertical
9949.215			104.0	1.0			V-Horn	PK	5.99E-08	-42.2	-13.0	-29.2	GPRS - EUT vertical
11938.900			331.0	1.0			H-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	GSM - EUT on side
11938.950			334.0	1.0			H-Horn	PK	4.44E-08	-43.5	-13.0	-30.5	GPRS - EUT on side
11938.740			97.0	1.0			V-Horn	PK	3.44E-08	-44.6	-13.0	-31.6	GPRS - EUT vertical
11938.830			44.0	1.0			V-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	GSM - EUT vertical
10402.010			236.0	1.0			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	GSM - EUT on side
10401.900			351.0	1.0			H-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	GPRS - EUT on side
10401.850			53.0	1.1			V-Horn	PK	9.93E-09	-50.0	-13.0	-37.0	GSM - EUT vertical
10401.710			52.0	1.1			V-Horn	PK	8.46E-09	-50.7	-13.0	-37.7	GPRS - EUT vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	Nha Tran	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

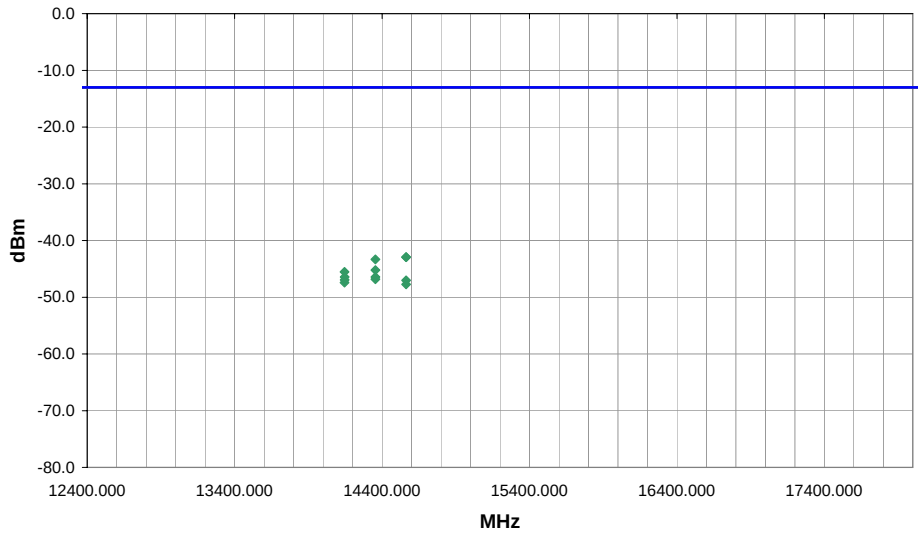
Transmitting GSM, PCS band, high power

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
14562.890			327.0	1.0			H-Horn	PK	5.09E-08	-42.9	-13.0	-29.9	High Channel, GSM - EUT on side
14562.990			327.0	1.0			H-Horn	PK	5.09E-08	-42.9	-13.0	-29.9	High Channel, GPRS - EUT on side
14354.180			183.0	1.0			H-Horn	PK	4.65E-08	-43.3	-13.0	-30.3	Mid Channel, GSM - EUT on side
14354.380			182.0	1.0			H-Horn	PK	3.00E-08	-45.2	-13.0	-32.2	Mid Channel, GPRS - EUT on side
14145.550			194.0	1.0			H-Horn	PK	2.80E-08	-45.5	-13.0	-32.5	Low Channel, GSM - EUT on side
14145.720			316.0	1.0			H-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	Low Channel, GPRS - EUT on side
14354.210			70.0	1.1			V-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	Mid Channel, GSM - EUT vertical
14354.120			147.0	1.1			V-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	Mid Channel, GPRS - EUT vertical
14145.810			111.0	1.3			V-Horn	PK	2.03E-08	-46.9	-13.0	-33.9	Low Channel, GSM - EUT vertical
14562.600			65.0	1.1			V-Horn	PK	1.98E-08	-47.0	-13.0	-34.0	High Channel, GPRS - EUT vertical
14145.370			33.0	1.3			V-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	Low Channel, GPRS - EUT vertical
14562.710			41.0	1.0			V-Horn	PK	1.69E-08	-47.7	-13.0	-34.7	High Channel, GSM - EUT vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	David Divergigelis	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

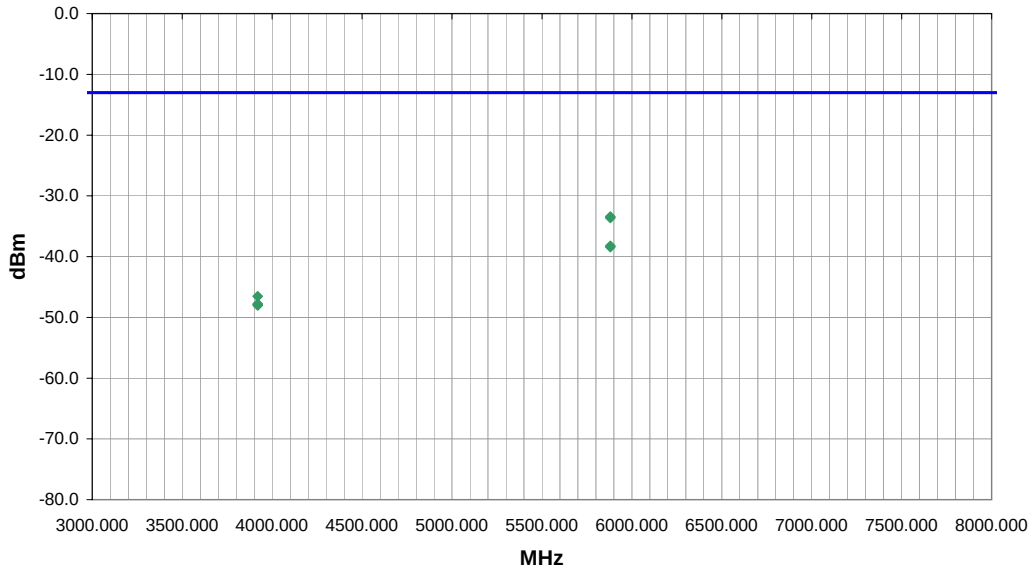
Transmitting, PCS band, high power, mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	8
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5880.053			327.0	1.0			H-Horn	PK	4.54E-07	-33.4	-13.0	-20.4	GPRS - EUT on side
5880.140			327.0	1.0			H-Horn	PK	4.34E-07	-33.6	-13.0	-20.6	GSM - EUT on side
5879.861			360.0	1.5			V-Horn	PK	1.50E-07	-38.2	-13.0	-25.2	GPRS - EUT horizontal
5879.994			19.0	1.1			V-Horn	PK	1.44E-07	-38.4	-13.0	-25.4	GSM - EUT horizontal
3919.913			330.0	1.0			H-Horn	PK	2.22E-08	-46.5	-13.0	-33.5	GSM - EUT on side
3919.777			333.0	1.0			H-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	GPRS - EUT on side
3920.093			255.0	1.0			V-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	GSM - EUT horizontal
3920.170			259.0	1.0			V-Horn	PK	1.57E-08	-48.0	-13.0	-35.0	GPRS - EUT horizontal

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	OmniCell@Home	Work Order:	RAFN0085
Serial Number:	None	Date:	05/13/08
Customer:	Radioframe Networks, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	30.05
Tested by:	David Divergigelis	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 24E:2007	ANSI/TIA/EIA-603-B-2002

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS

Antenna ports terminated

EUT OPERATING MODES

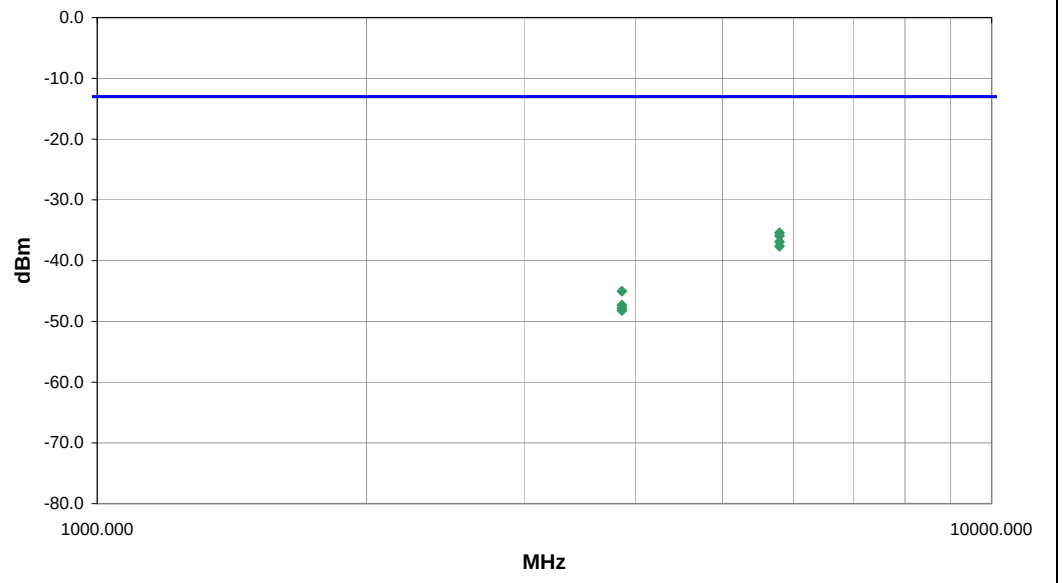
Transmitting, PCS band, high power, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	9
Configuration #	1
Results	Pass

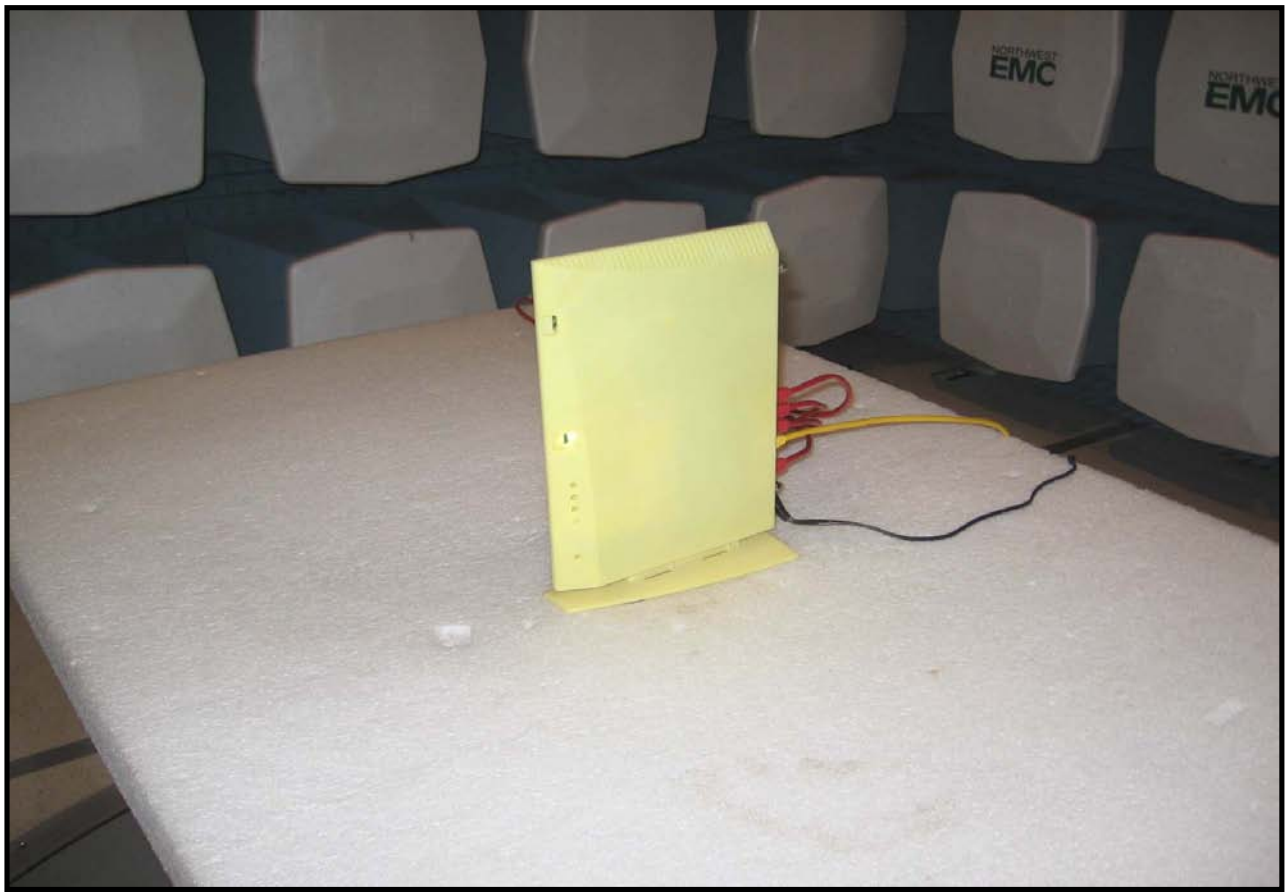
Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5790.613			322.0	1.0			H-Horn	PK	2.86E-07	-35.4	-13.0	-22.4	GPRS - EUT on side
5790.633			321.0	1.0			H-Horn	PK	2.55E-07	-35.9	-13.0	-22.9	GSM - EUT on side
5790.630			29.0	1.0			V-Horn	PK	2.03E-07	-36.9	-13.0	-23.9	GPRS - EUT horizontal
5790.587			28.0	1.0			V-Horn	PK	1.73E-07	-37.6	-13.0	-24.6	GSM - EUT horizontal
3860.577			320.0	1.0			H-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	GSM - EUT on side
3860.233			322.0	1.0			H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	GPRS - EUT on side
3860.243			294.0	1.0			V-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	GSM - EUT horizontal
3860.377			297.0	1.0			V-Horn	PK	1.50E-08	-48.2	-13.0	-35.2	GPRS - EUT horizontal


NORTHWEST EMC


NORTHWEST EMC


NORTHWEST
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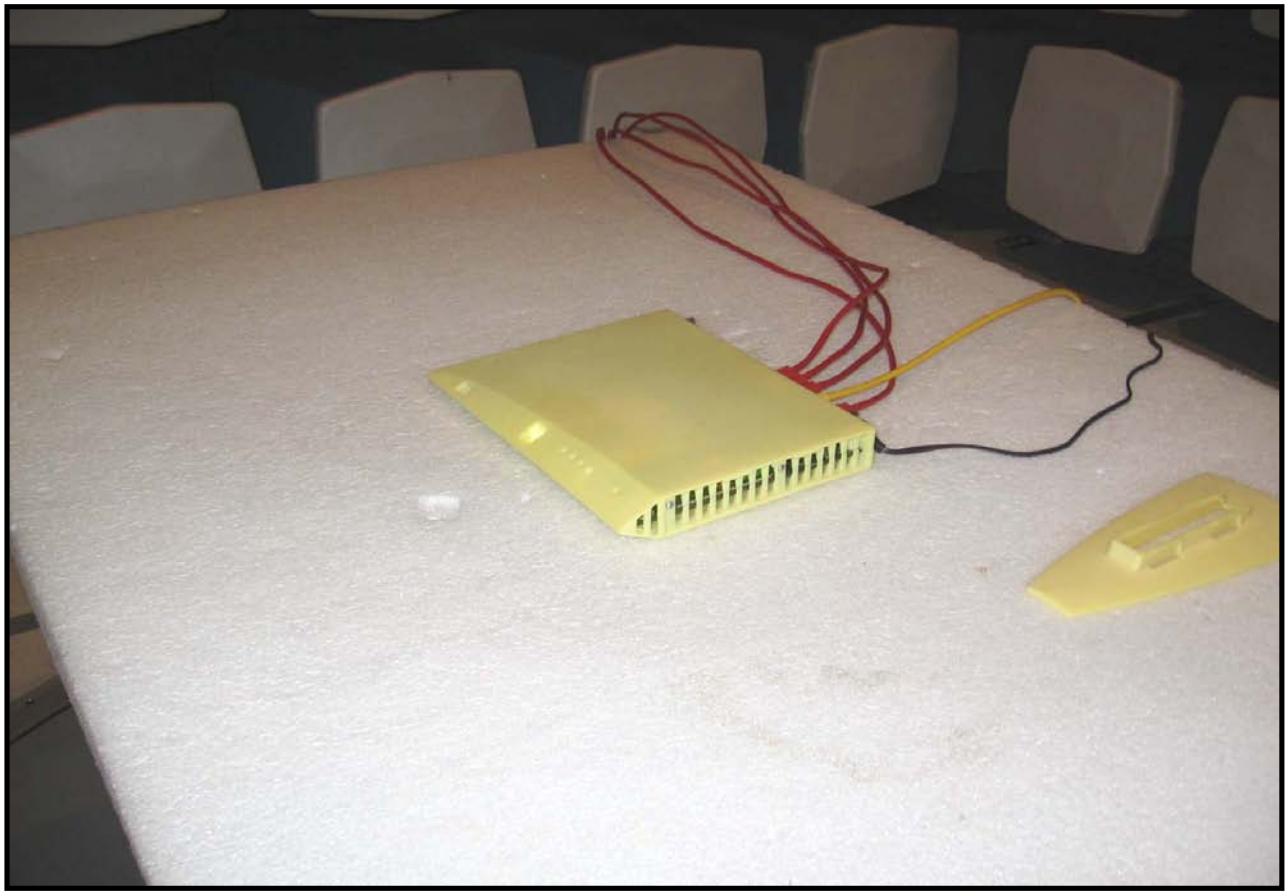

OUT OF BAND EMISSIONS