Tripod Data Systems, Inc.

Siemens MC75 installed in TDS Nomad

EMC Test Report

May 02, 2008

Report No. TRPO0040.2

Report Prepared By

NORTHWEST EMC

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

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: May 02, 2008
Tripod Data Systems, Inc.
Model: Siemens MC75 installed in TDS Nomad

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Output Power	FCC 22H:2007 FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Occupied Bandwidth	FCC 22H:2007 FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Out Of Band Emissions	FCC 22H:2007 FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Spurious Conducted Emissions	FCC 22H:2007 FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Effective Radiated Power	FCC 22H:2007 FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
Frequency Stability	FCC 22H:2007 FCC 24E:2007	ANSI/TIA/EIA-603-B-2002	**Pass**
AC Powerline Conducted Emissions	FCC 15.207:2007	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
00	None		

Accreditations and Authorizations

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.

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).*

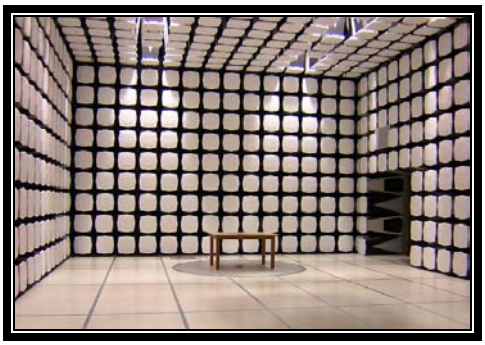
BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.

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)*

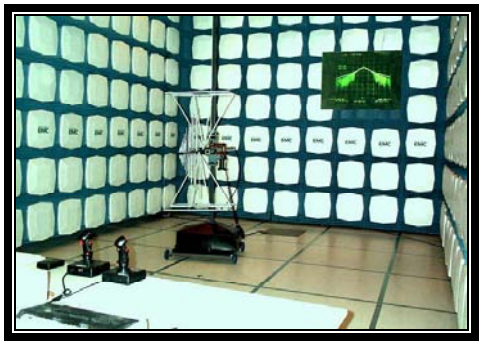
SCOPE

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



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:	Tripod Data Systems, Inc.
Address:	345 SW Avery Ave
City, State, Zip:	Corvallis, OR 97333
Test Requested By:	Bob Grant
Model:	Siemans MC75 installed in TDS Nomad
First Date of Test:	April 9, 2008
Last Date of Test:	April 28, 2008
Receipt Date of Samples:	April 9, 2008
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
GSM/GPRS/EGPRS radio module installed in Tripod's Nomad handheld computer.

Testing Objective:
TCB limited modular certification of GSM/GPRS/EGPRS radio module installed in Tripod's Eagle handheld computer. The module was previously certified by Siemens, FCC ID: QIPMC75. The Eagle handheld computer also has a Bluetooth and 802.11 radio. These radios were tested under TRPO0034/TRPO0035.

CONFIGURATION 1 TRPO0040

Software/Firmware Running during test	
Description	**Version**
Windows CE	CE OS 5.2.2000

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
GSM/GPRS/EGPRS Radio	Siemens	MC75	Unknown
Handheld Computer	Tripod Data Systems, Inc.	TDS Nomad	Unknown

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC Adapter	Cincon Electronics Co. Ltd.	TR30R050	Unknown
Antenna	Unknown	Unknown	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
DC	No	1.5m	Yes	Handheld Computer	AC Adapter
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 TRPO0040

Software/Firmware Running during test	
Description	**Version**
Windows CE	CE OS 5.2.2000

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
GSM/GPRS/EGPRS Radio	Siemens	MC75	Unknown
Handheld Computer	Tripod Data Systems, Inc.	TDS Nomad	Unknown

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC Adapter	Cincon Electronics Co. Ltd.	TR30R050	Unknown
Direct connect antenna adapter	Unknown	Unknown	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
DC	No	1.5m	Yes	Handheld Computer	AC Adapter
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 3 TRPO0040

Software/Firmware Running during test	
Description	**Version**
Windows CE	CE OS 5.2.2000

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
GSM/GPRS/EGPRS Radio	Siemens	MC75	Unknown
Handheld Computer	Tripod Data Systems, Inc.	TDS Nomad	Unknown

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC Adapter	Cincon Electronics Co. Ltd.	TR30R050	Unknown
Antenna	Unknown	Unknown	Unknown

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
DC	No	1.5m	Yes	Handheld Computer	AC Adapter
USB	Yes	1.5m	No	Handheld Computer	Unterminated
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	4/9/2008	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.
2	4/10/2008	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.
3	4/10/2008	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.
4	4/15/2008	Spurious Conducted 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.
5	4/17/2008	Effective Radiated 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.
6	4/23/2008	AC Powerline Conducted 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.
7	4/28/2008	Out Of Band Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Effective Radiated Power (ERP)

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, Cellular band, Ch. 128, 824.2MHz
Transmitting, Cellular band, Ch. 190, 836.6MHz
Transmitting, Cellular band, Ch. 251, 848.8MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Dipole (part of ADA)	ETS	3121C-DB4	ADAA	NCR	0
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	NCR	0
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
EV01 Cables		Bilog Cables	EVA	10/23/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	16
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	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
Spectrum Analyzer	Agilent	E4446A	AAT	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 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 Radiated Power (ERP)

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/17/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	31%
Project:	None	Barometric Pres.:	1026.6
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

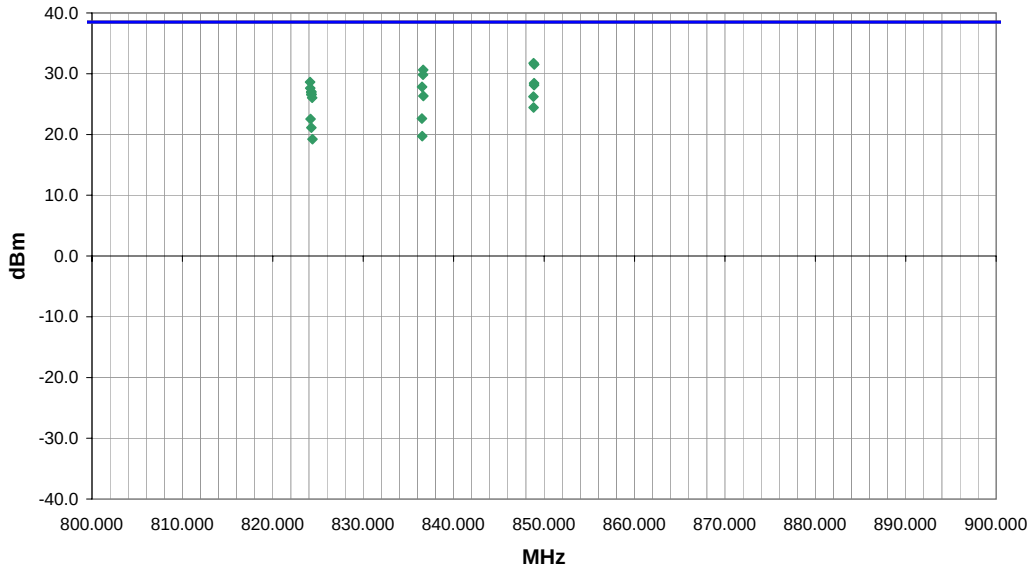
Transmitting, Cellular band

DEVIATIONS FROM TEST STANDARD

No deviations.

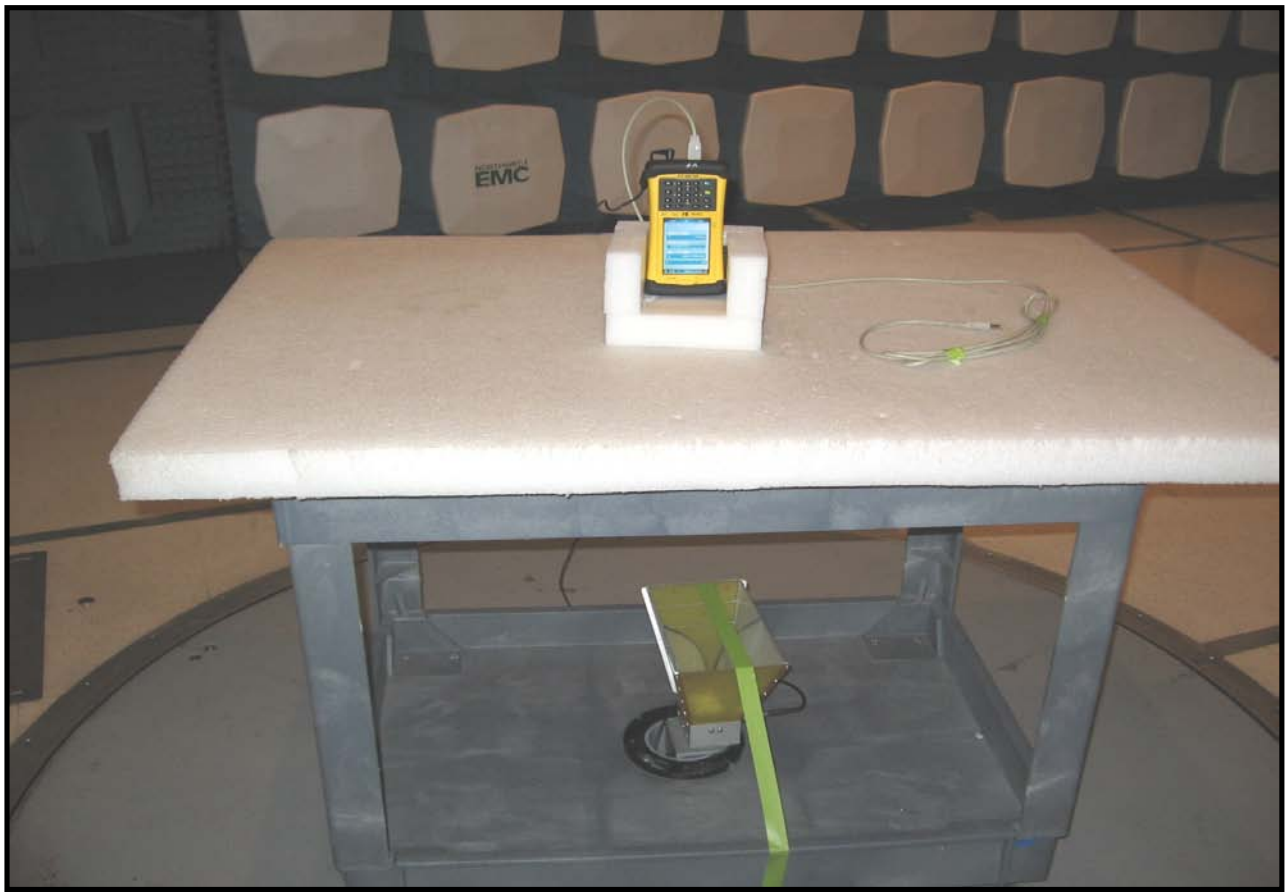
Run #	2
Configuration #	3
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		ERP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
848.837			322.0	1.0			H-Bilog	PK		31.7	38.5	-6.8	GSM, EUT vertical
848.913			322.0	1.0			H-Bilog	PK		31.5	38.5	-7.0	GPRS, EUT vertical
836.632			320.0	1.0			H-Bilog	PK		30.6	38.5	-7.9	GPRS, EUT vertical
836.615			316.0	1.0			H-Bilog	PK		29.8	38.5	-8.7	GSM, EUT vertical
824.117			320.0	1.0			H-Bilog	PK		28.6	38.5	-9.9	GPRS, EUT vertical
848.890			126.0	1.2			V-Bilog	PK		28.4	38.5	-10.1	GSM, EUT vertical
848.888			130.0	1.3			V-Bilog	PK		28.1	38.5	-10.4	GPRS, EUT vertical
836.512			122.0	1.2			V-Bilog	PK		27.8	38.5	-10.7	GSM, EUT vertical
824.143			73.0	1.2			H-Bilog	PK		27.6	38.5	-10.9	GSM, EUT vertical
824.268			9.0	1.1			H-Bilog	PK		27.0	38.5	-11.5	GSM, EUT horizontal
824.237			4.0	1.1			H-Bilog	PK		26.9	38.5	-11.6	GSM, EUT on side
824.275			112.0	2.2			V-Bilog	PK		26.6	38.5	-11.9	GPRS, EUT vertical
824.262			94.0	1.3			V-Bilog	PK		26.5	38.5	-12.0	GSM, EUT Vertical
836.655			320.0	1.0			H-Bilog	PK		26.3	38.5	-12.2	EDGE, EUT vertical
848.827			322.0	1.0			H-Bilog	PK		26.2	38.5	-12.3	EDGE, EUT vertical
824.353			319.0	1.0			H-Bilog	PK		26.0	38.5	-12.5	EDGE, EUT vertical
848.837			108.0	2.0			V-Bilog	PK		24.4	38.5	-14.1	EDGE, EUT vertical
836.493			125.0	1.2			V-Bilog	PK		22.6	38.5	-15.9	EDGE, EUT vertical
824.168			166.0	1.3			V-Bilog	PK		22.5	38.5	-16.0	EDGE, EUT vertical
824.267			103.0	1.6			V-Bilog	PK		21.1	38.5	-17.4	GSM, EUT horizontal

Effective Radiated Power (ERP)



Effective Radiated Power (ERP)

Effective Radiated Power (EIRP)

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, PCS band, Ch. 512, 1850.2MHz
Transmitting, PCS band, Ch. 661, 1880MHz
Transmitting, PCS band, Ch. 810, 1909.8MHz

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	1850MHz	Stop Frequency	1910MHz

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
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
EV01 Cables		Double Ridge Horn Cables	EVB	1/3/2008	13
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Signal Generator	Agilent	E8257D	TGX	12/7/2007	13
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	BWI (kHz)
	0.15 - 30.0	1.0
	30.0 - 400.0	10.0
	400.0 - 1000.0	100.0
	1000.0 - 6000.0	1000.0

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 Radiated Power (EIRP)

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/17/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	31%
Project:	None	Barometric Pres.:	1026.6
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

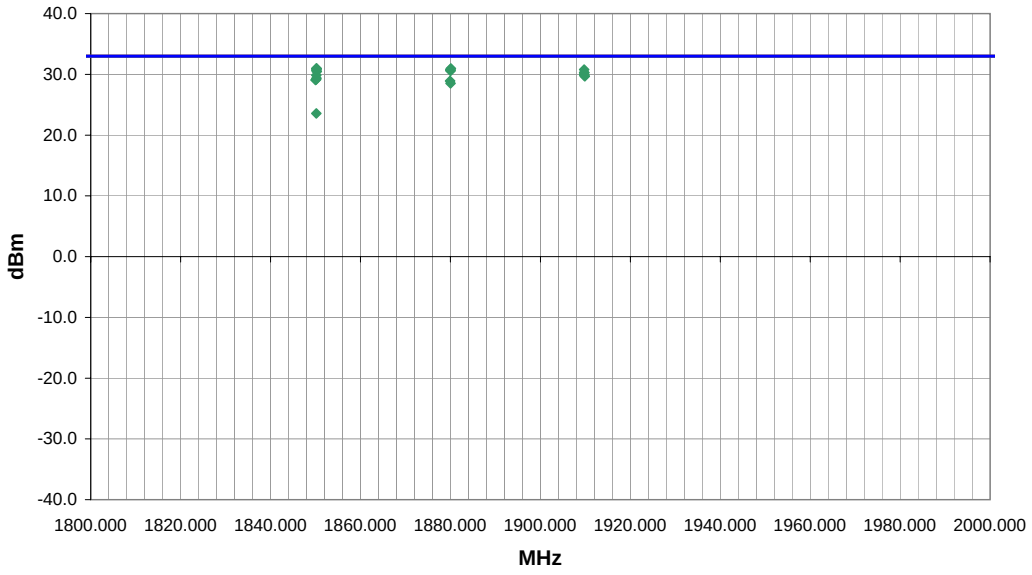
Transmitting, PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

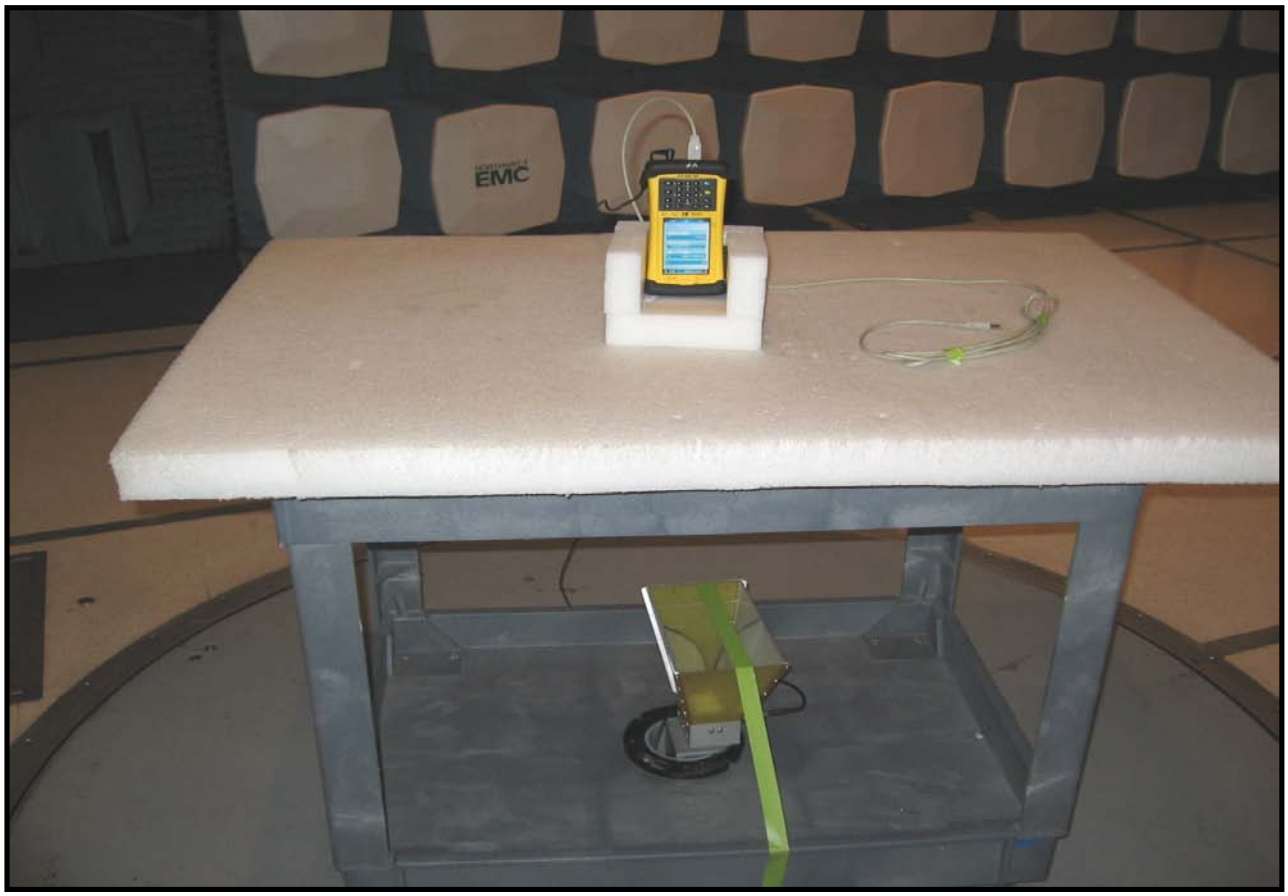
Run #	1
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1850.208			298.0	1.1			V-Horn	PK	1.25E+00	31.0	33.0	-2.0	GSM, EUT vertical
1850.220			23.0	1.0			H-Horn	PK	1.25E+00	31.0	33.0	-2.0	GPRS, EUT vertical
1880.098			34.0	1.3			H-Horn	PK	1.25E+00	31.0	33.0	-2.0	EDGE, EUT vertical
1850.227			13.0	1.2			V-Horn	PK	1.22E+00	30.9	33.0	-2.1	GSM, EUT on side
1879.983			309.0	1.0			V-Horn	PK	1.19E+00	30.8	33.0	-2.2	EDGE, EUT vertical
1909.745			26.0	1.0			H-Horn	PK	1.19E+00	30.8	33.0	-2.2	EDGE, EUT vertical
1850.175			314.0	1.1			V-Horn	PK	1.17E+00	30.7	33.0	-2.3	EDGE, EUT vertical
1879.985			305.0	1.0			V-Horn	PK	1.17E+00	30.7	33.0	-2.3	GPRS, EUT vertical
1880.037			302.0	1.0			V-Horn	PK	1.14E+00	30.6	33.0	-2.4	GSM, EUT vertical
1850.277			293.0	1.2			V-Horn	PK	1.11E+00	30.5	33.0	-2.5	GPRS, EUT vertical
1909.737			33.0	1.0			H-Horn	PK	1.06E+00	30.3	33.0	-2.7	GPRS, EUT vertical
1909.770			31.0	1.0			H-Horn	PK	1.06E+00	30.3	33.0	-2.7	GSM, EUT vertical
1909.743			311.0	1.0			V-Horn	PK	9.93E-01	30.0	33.0	-3.0	GSM, EUT vertical
1850.152			15.0	1.3			H-Horn	PK	9.71E-01	29.9	33.0	-3.1	GSM, EUT on side
1909.757			309.0	1.0			V-Horn	PK	9.71E-01	29.9	33.0	-3.1	GPRS, EUT vertical
1909.863			309.0	1.0			V-Horn	PK	9.27E-01	29.7	33.0	-3.3	EDGE, EUT vertical
1850.202			25.0	1.4			H-Horn	PK	8.61E-01	29.4	33.0	-3.7	GSM, EUT vertical
1850.143			19.0	1.0			H-Horn	PK	8.22E-01	29.2	33.0	-3.9	EDGE, EUT vertical
1849.997			208.0	1.3			H-Horn	PK	8.07E-01	29.1	33.0	-3.9	GSM, EUT Horizontal
1879.918			18.0	1.0			H-Horn	PK	7.77E-01	28.9	33.0	-4.1	GSM, EUT vertical

Effective Radiated Power (EIRP)



Effective Radiated Power (EIRP)

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	Weinschel Corp.	54A-30	RBM	NCR	0
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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

The 99% bandwidth was measured utilizing the analyzer's peak detector and measuring the carrier's 20 dB occupied bandwidth.

A direct connection was made between the EUT and a spectrum analyzer. At 300Hz 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 >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 for continuous modulated operation at the lowest, middle and highest channels of the operational band.

NORTHWEST EMC

OCCUPIED BANDWIDTH

XMit 2006.08.25

EUT:	Siemens MC75 installed in TDS Nomad			**Work Order:**	TRPO0040
Serial Number:	None			**Date:**	04/10/08
Customer:	Tripod Data Systems, Inc.			**Temperature:**	22°C
Attendees:	None			**Humidity:**	31%
Project:	None			**Barometric Pres.:**	1019.1
Tested by:	Holly Ashkannejhad	**Power:**	120VAC/60Hz	**Job Site:**	EV06

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

COMMENTS

Cellular Band

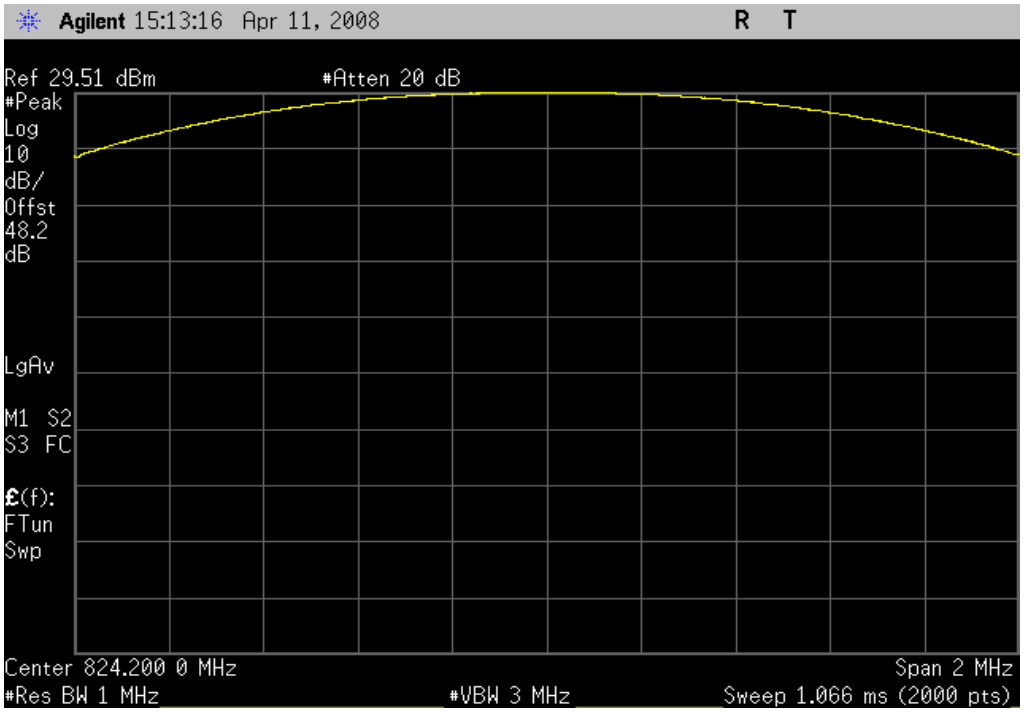
DEVIATIONS FROM TEST STANDARD

No Deviations

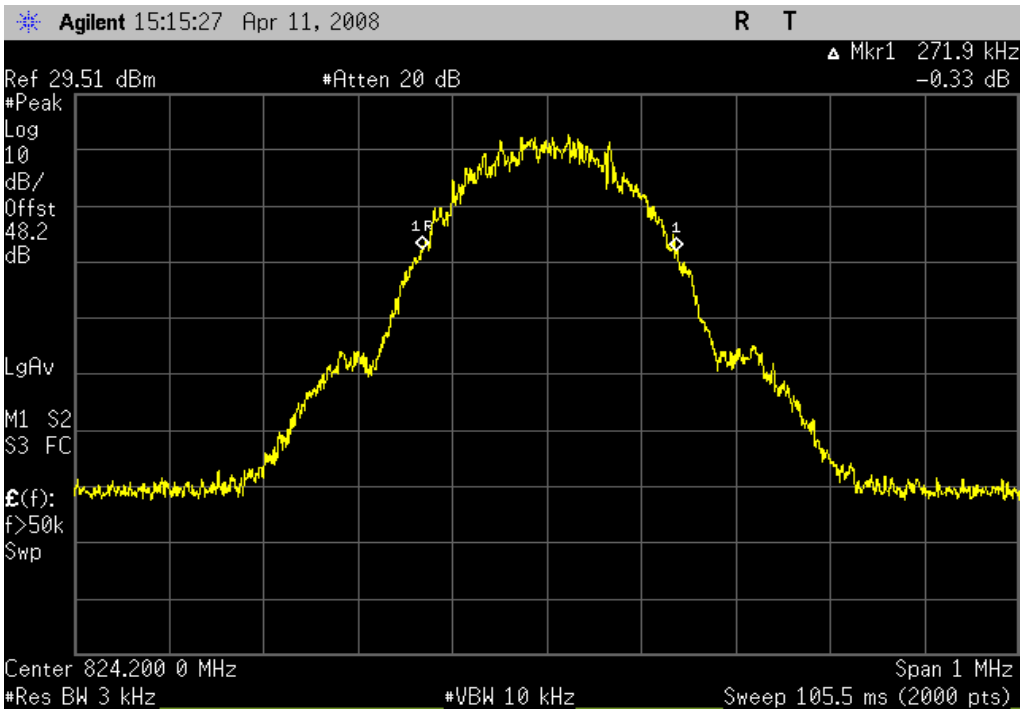
Configuration #	2	Signature Holly Ashkannejhad

		Value	Limit	Results
GSM Modulation				
	Low Channel			
	Reference Level Plot	29.51 dBm	N/A	Pass
	Occupied Bandwidth	271.9 kHz	N/A	Pass
	Band Edge	-16.56 dBm	≤ -13 dBm	Pass
	Mid Channel			
	Reference Level Plot	29.91 dBm	N/A	Pass
	Occupied Bandwidth	274.7 kHz	N/A	Pass
	High Channel			
	Reference Level Plot	30.21 dBm	N/A	Pass
	Occupied Bandwidth	275.0 kHz	N/A	Pass
	Band Edge	-13.95 dBm	≤ -13 dBm	Pass
GPRS Modulation				
	Low Channel			
	Reference Level Plot	29.49 dBm	N/A	Pass
	Occupied Bandwidth	277.4 kHz	N/A	Pass
	Band Edge	-15.55 dBm	≤ -13 dBm	Pass
	Mid Channel			
	Reference Level Plot	29.92 dBm	N/A	Pass
	Occupied Bandwidth	275.3 kHz	N/A	Pass
	High Channel			
	Reference Level Plot	30.21 dBm	N/A	Pass
	Occupied Bandwidth	274.5 kHz	N/A	Pass
	Band Edge	-14.12 dBm	≤ - 13 dBm	Pass
EDGE Modulation				
	Low Channel			
	Reference Level Plot	29.54 dBm	N/A	Pass
	Occupied Bandwidth	291.6 kHz	N/A	Pass
	Band Edge	-15.66 dBm	≤ -13 dBm	Pass
	Mid Channel			
	Reference Level Plot	29.94 dBm	N/A	Pass
	Occupied Bandwidth	272.2 kHz	N/A	Pass
	High Channel			
	Reference Level Plot	30.21 dBm	N/A	Pass
	Occupied Bandwidth	277.0 kHz	N/A	Pass
	Band Edge	-14.69 dBm	≤ -13 dBm	Pass

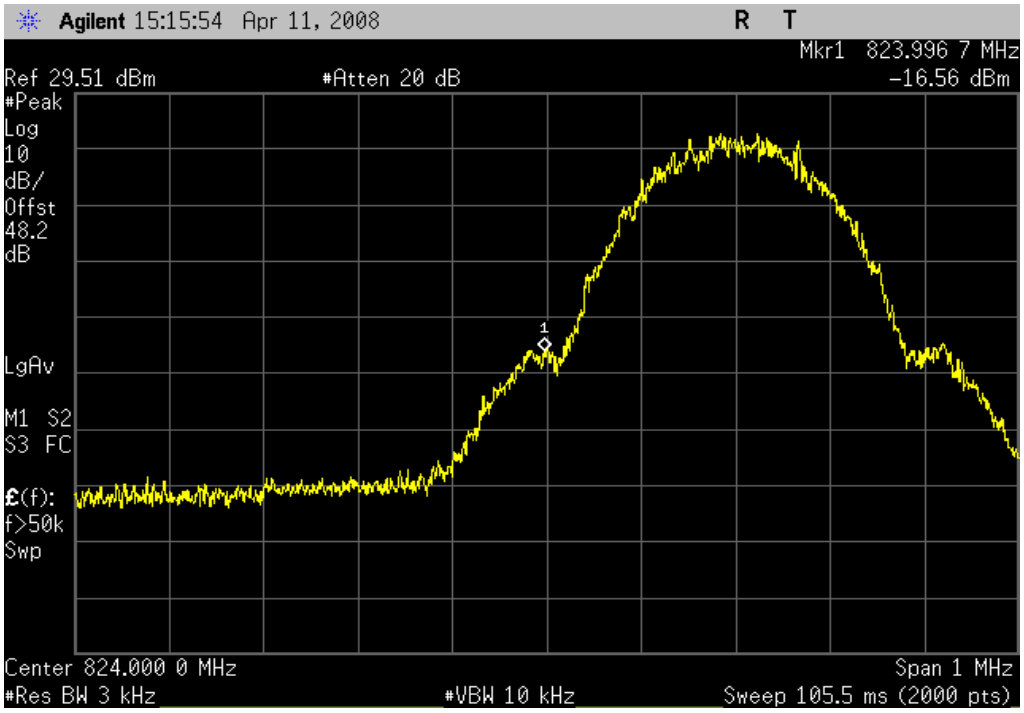
GSM Modulation, Low Channel, Reference Level Plot					
Result:	Pass	**Value:**	29.51 dBm	**Limit:**	N/A



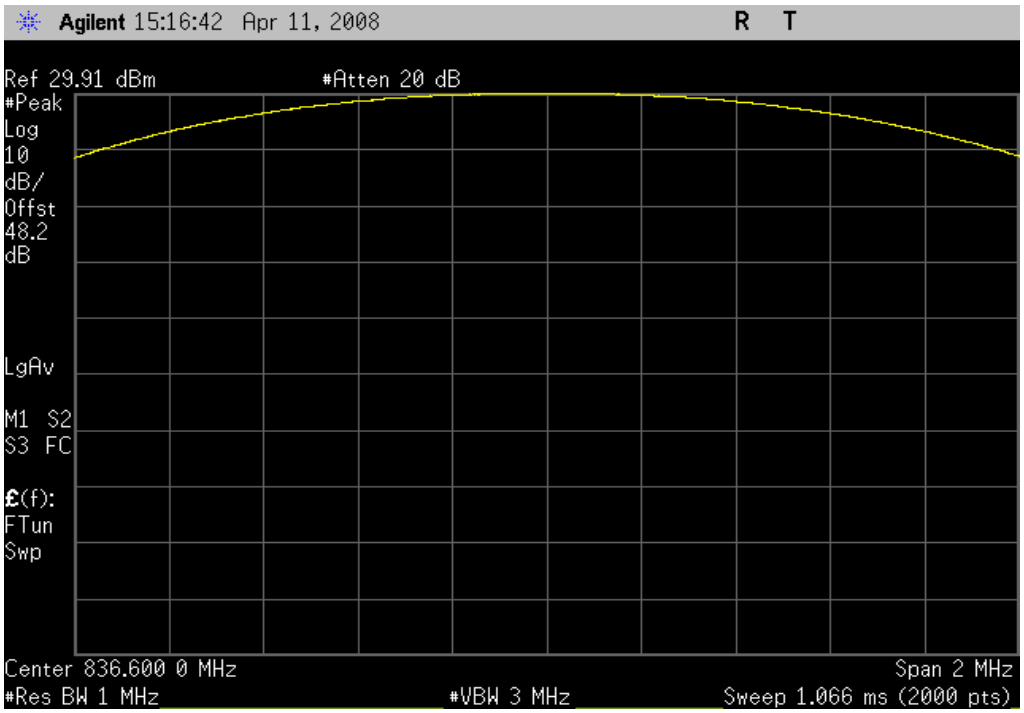
GSM Modulation, Low Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	271.9 kHz	**Limit:**	N/A



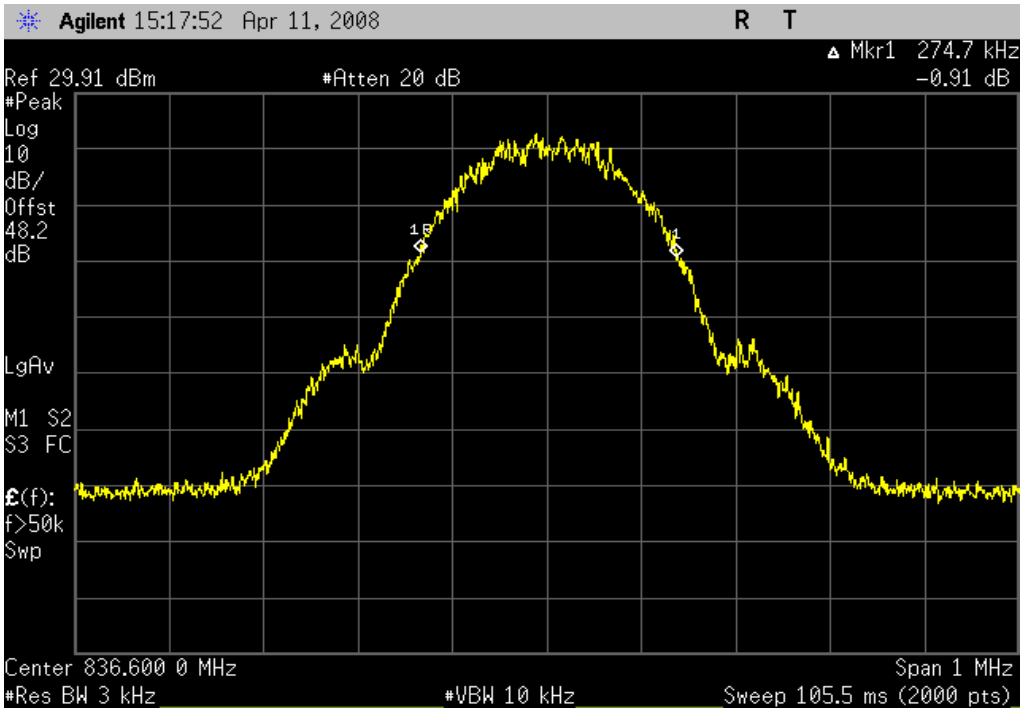
GSM Modulation, Low Channel, Band Edge					
Result:	Pass	**Value:**	-16.56 dBm	**Limit:**	≤ -13 dBm



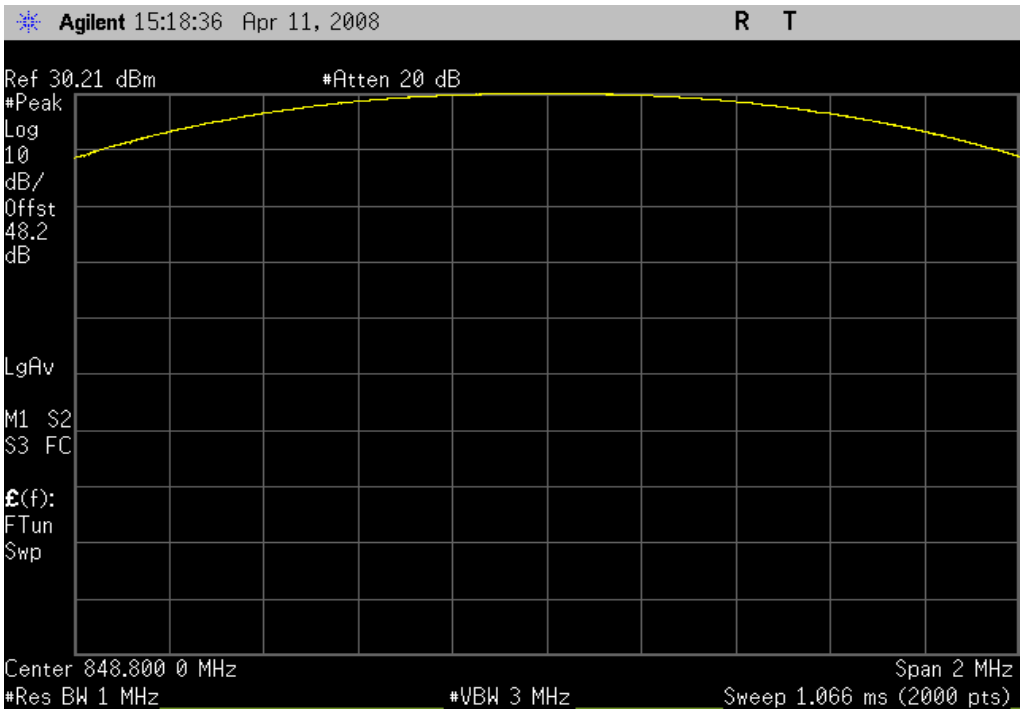
GSM Modulation, Mid Channel, Reference Level Plot					
Result:	Pass	**Value:**	29.91 dBm	**Limit:**	N/A



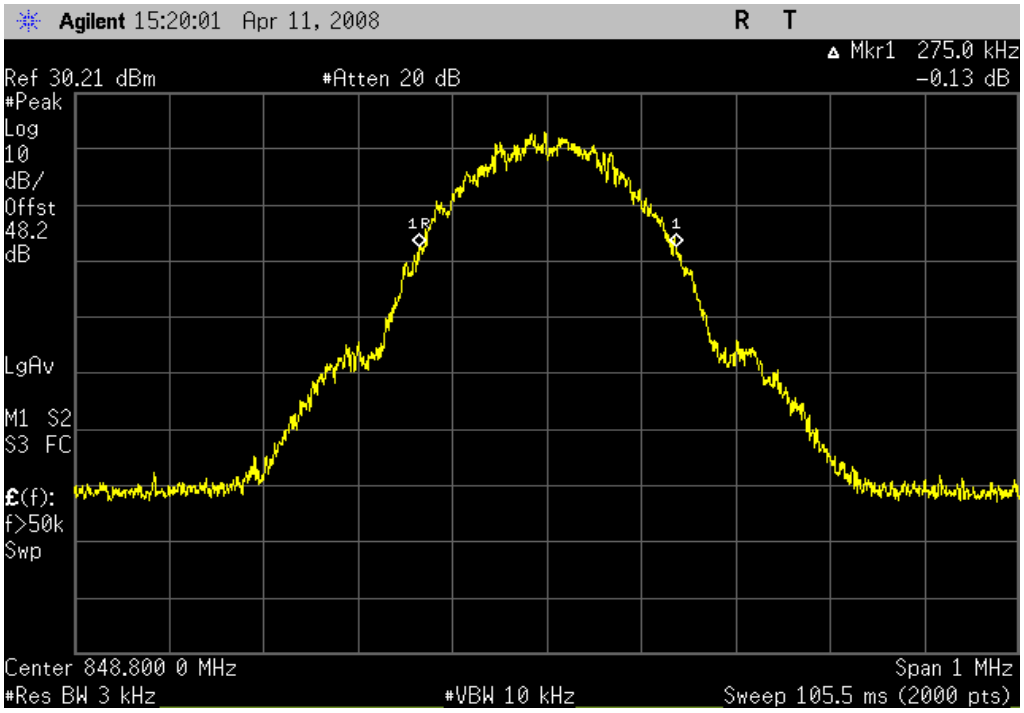
GSM Modulation, Mid Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	274.7 kHz	**Limit:**	N/A



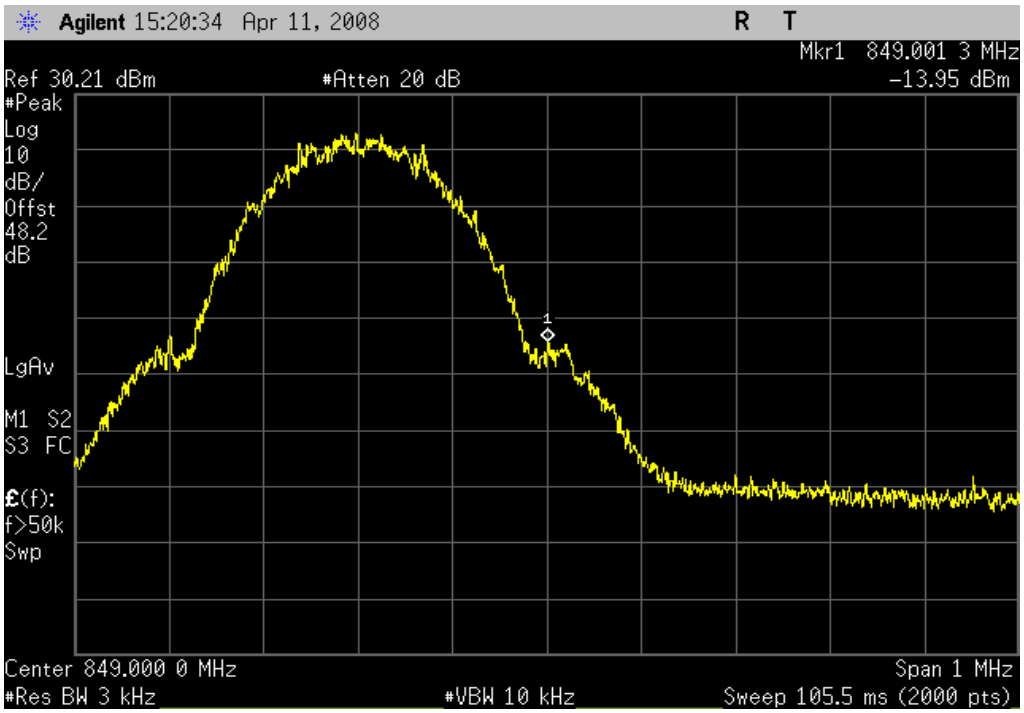
GSM Modulation, High Channel, Reference Level Plot					
Result:	Pass	**Value:**	30.21 dBm	**Limit:**	N/A



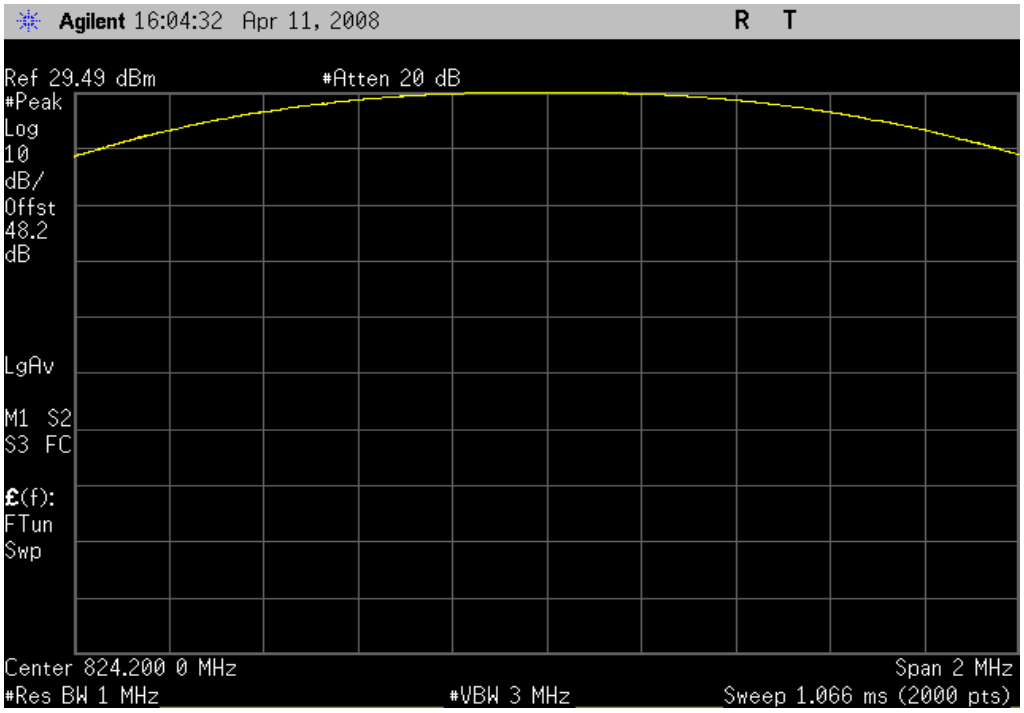
GSM Modulation, High Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	275.0 kHz	**Limit:**	N/A



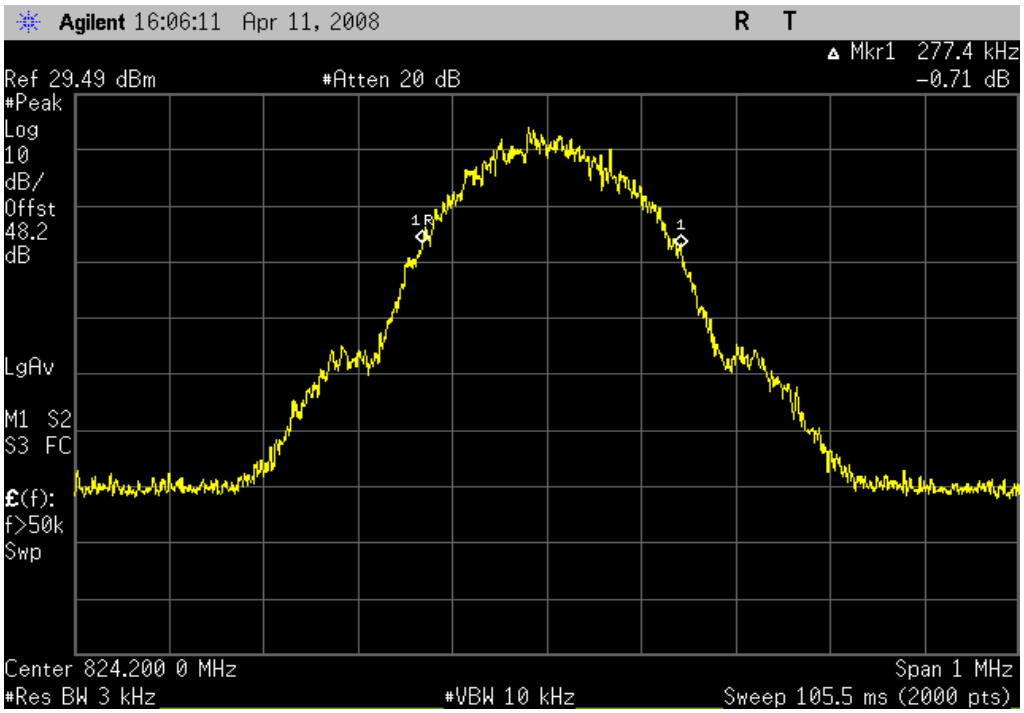
GSM Modulation, High Channel, Band Edge					
Result:	Pass	**Value:**	-13.95 dBm	**Limit:**	≤ -13 dBm



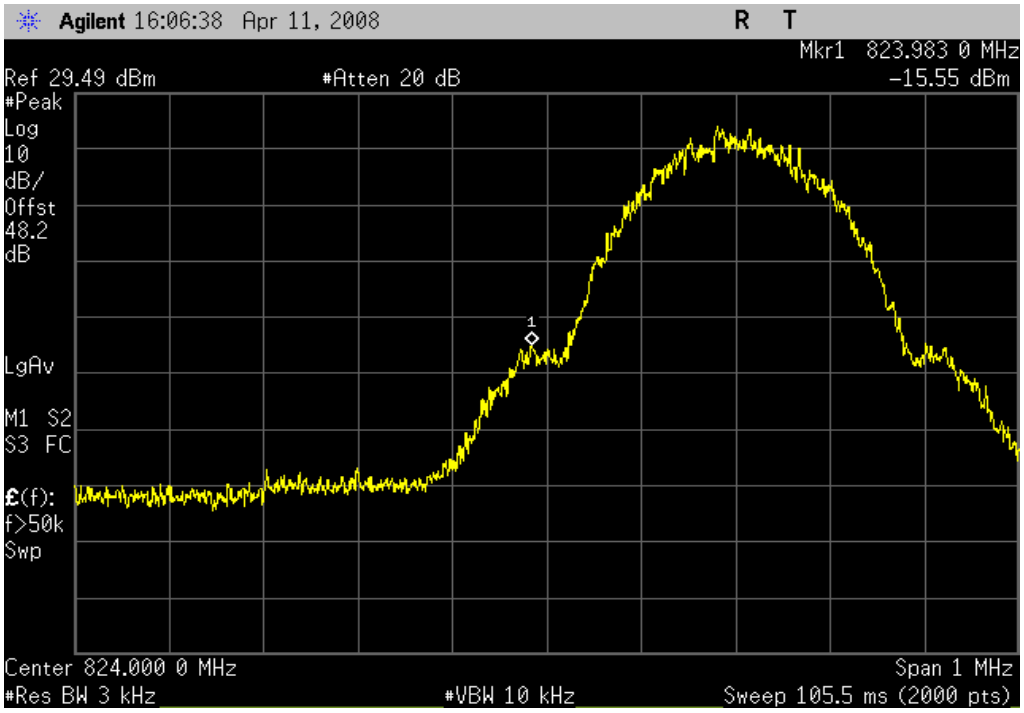
GPRS Modulation, Low Channel, Reference Level Plot					
Result:	Pass	**Value:**	29.49 dBm	**Limit:**	N/A



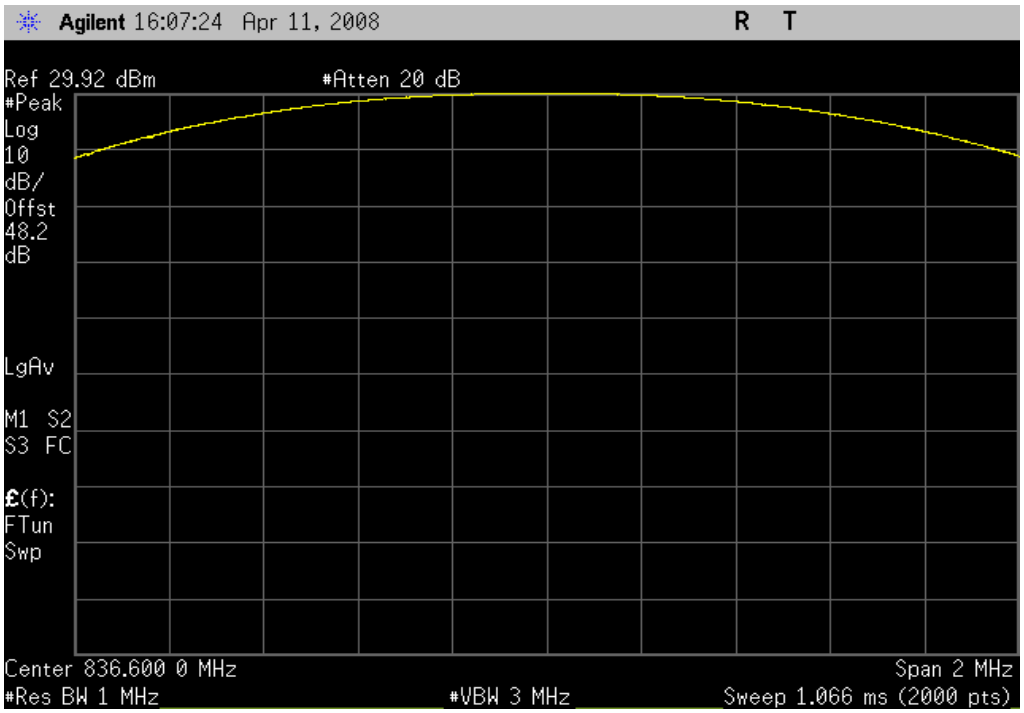
GPRS Modulation, Low Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	277.4 kHz	**Limit:**	N/A



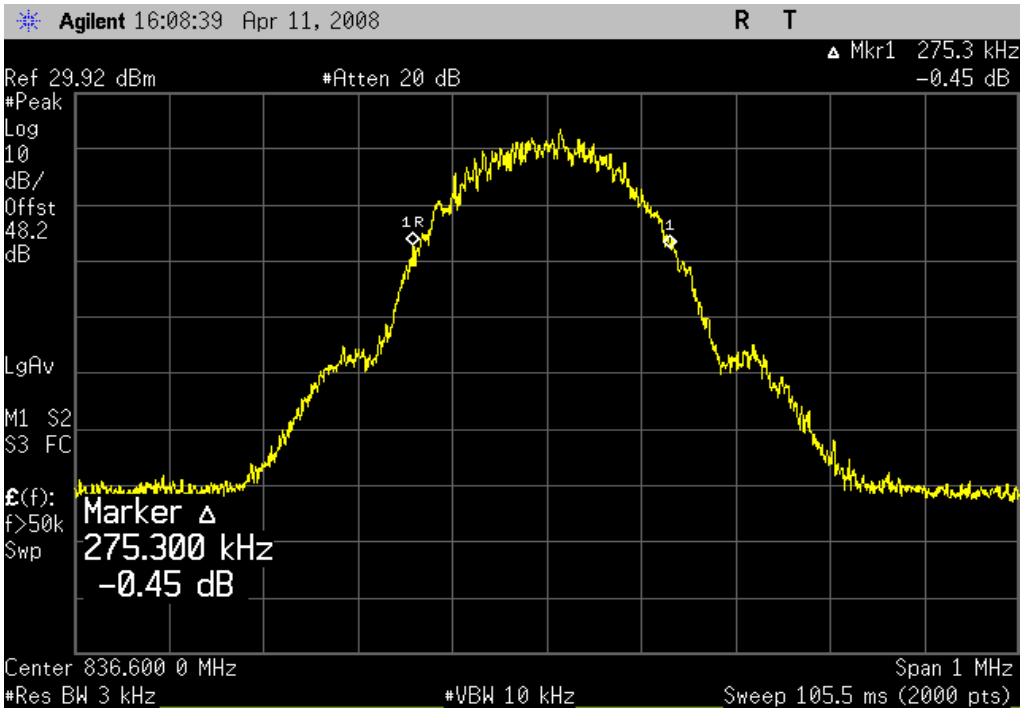
GPRS Modulation, Low Channel, Band Edge					
Result:	Pass	**Value:**	-15.55 dBm	**Limit:**	≤ -13 dBm



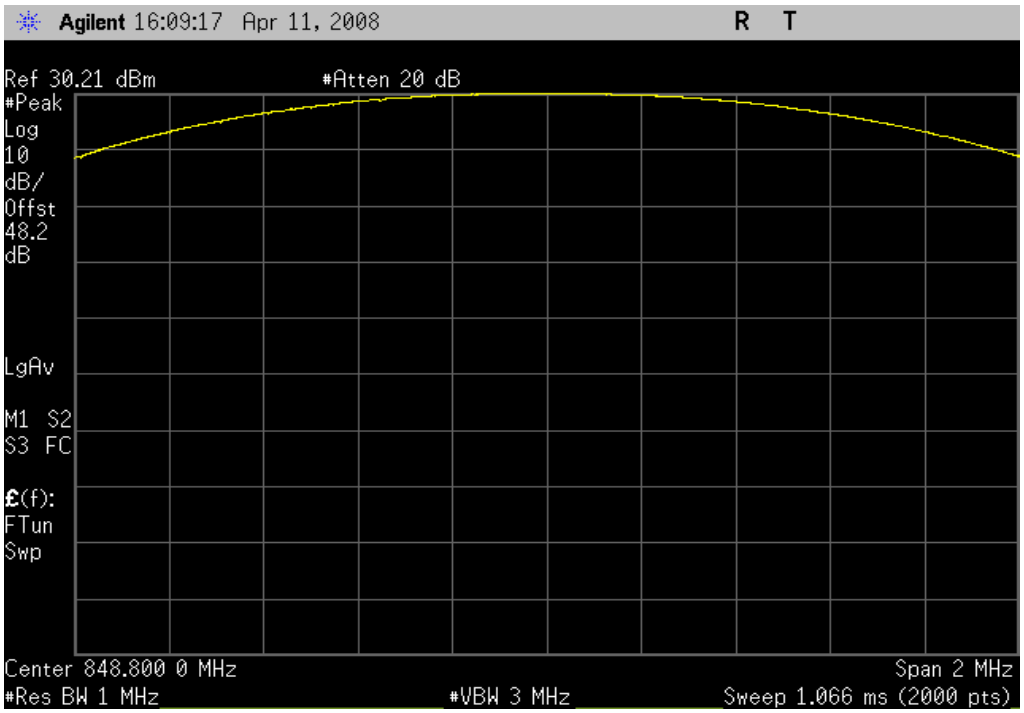
GPRS Modulation, Mid Channel, Reference Level Plot					
Result:	Pass	**Value:**	29.92 dBm	**Limit:**	N/A



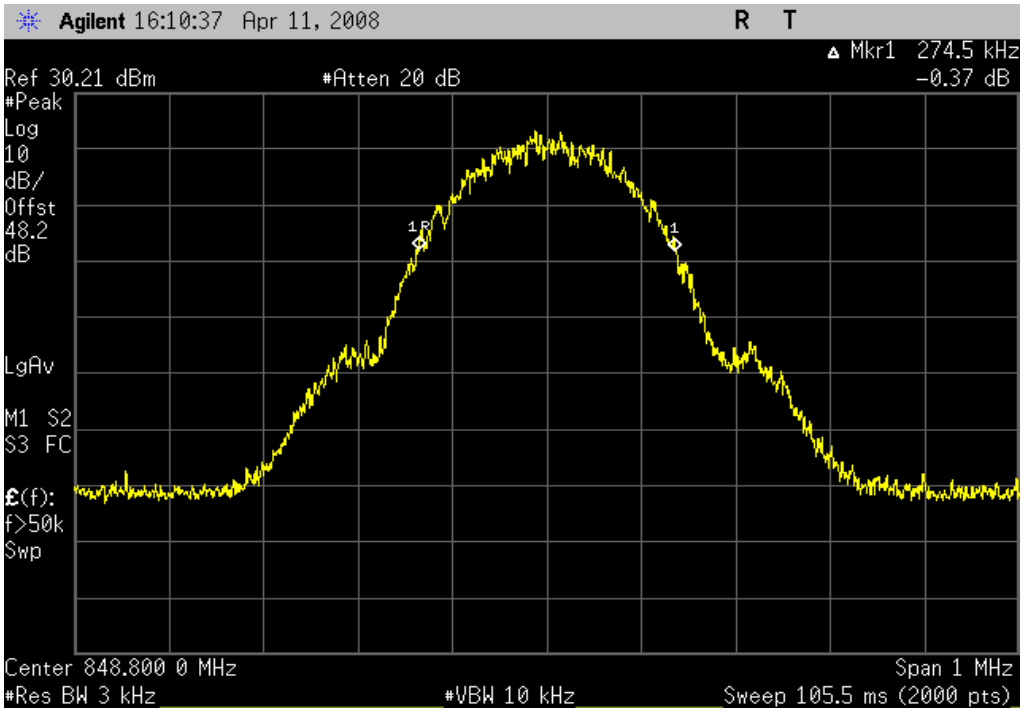
GPRS Modulation, Mid Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	275.3 kHz	**Limit:**	N/A



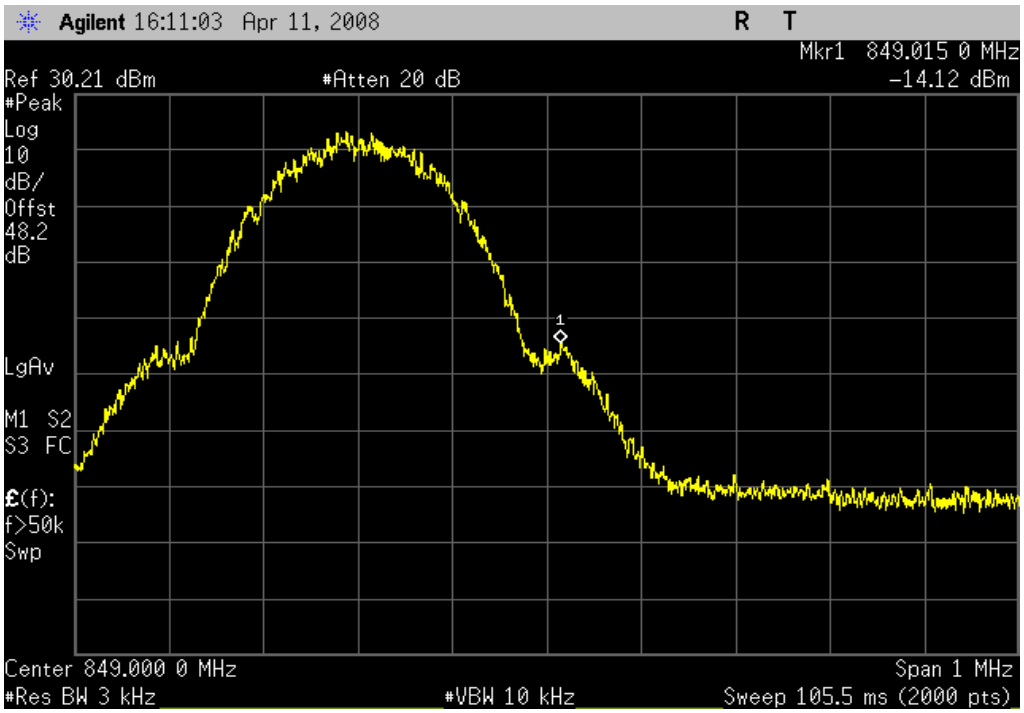
GPRS Modulation, High Channel, Reference Level Plot					
Result:	Pass	**Value:**	30.21 dBm	**Limit:**	N/A



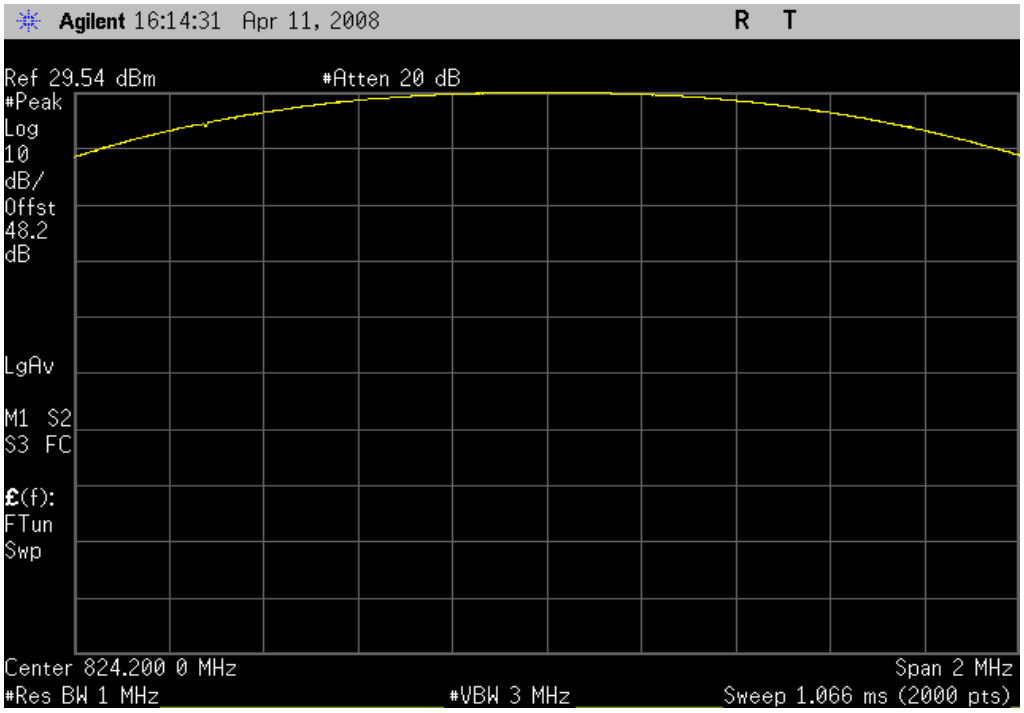
GPRS Modulation, High Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	274.5 kHz	**Limit:**	N/A



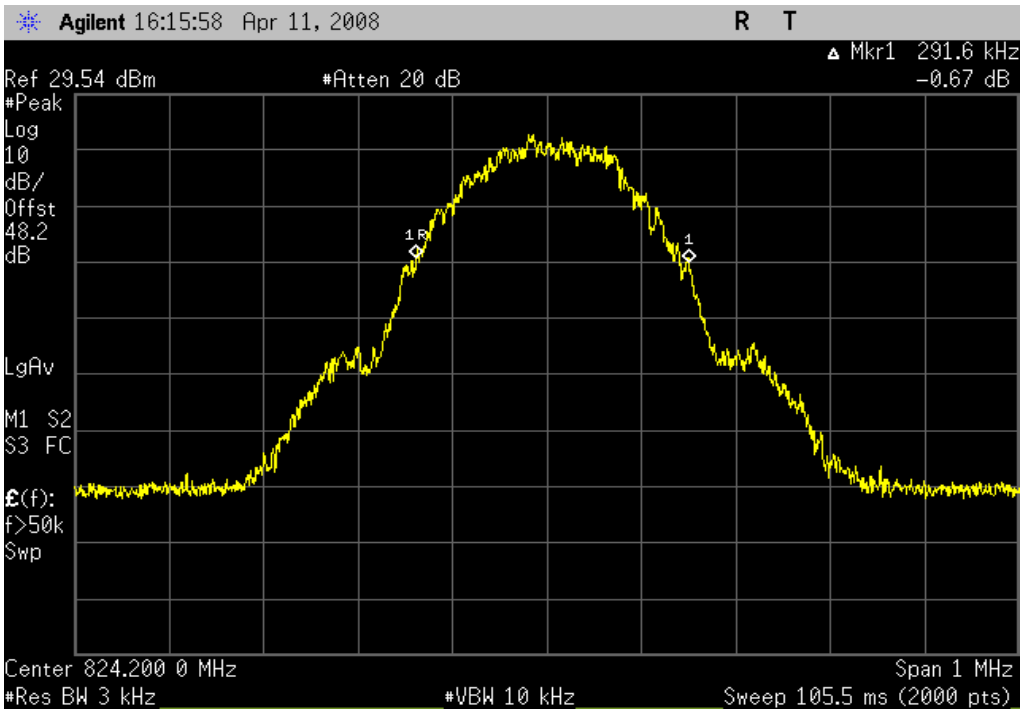
GPRS Modulation, High Channel, Band Edge					
Result:	Pass	**Value:**	-14.12 dBm	**Limit:**	≤ - 13 dBm



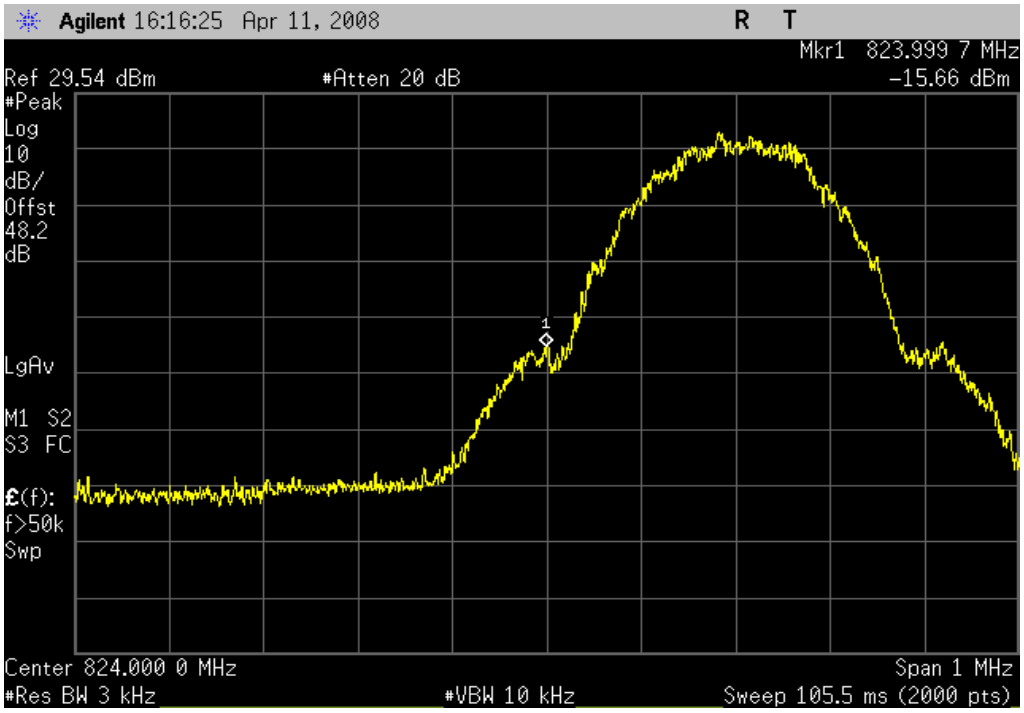
EDGE Modulation, Low Channel, Reference Level Plot					
Result:	Pass	**Value:**	29.54 dBm	**Limit:**	N/A



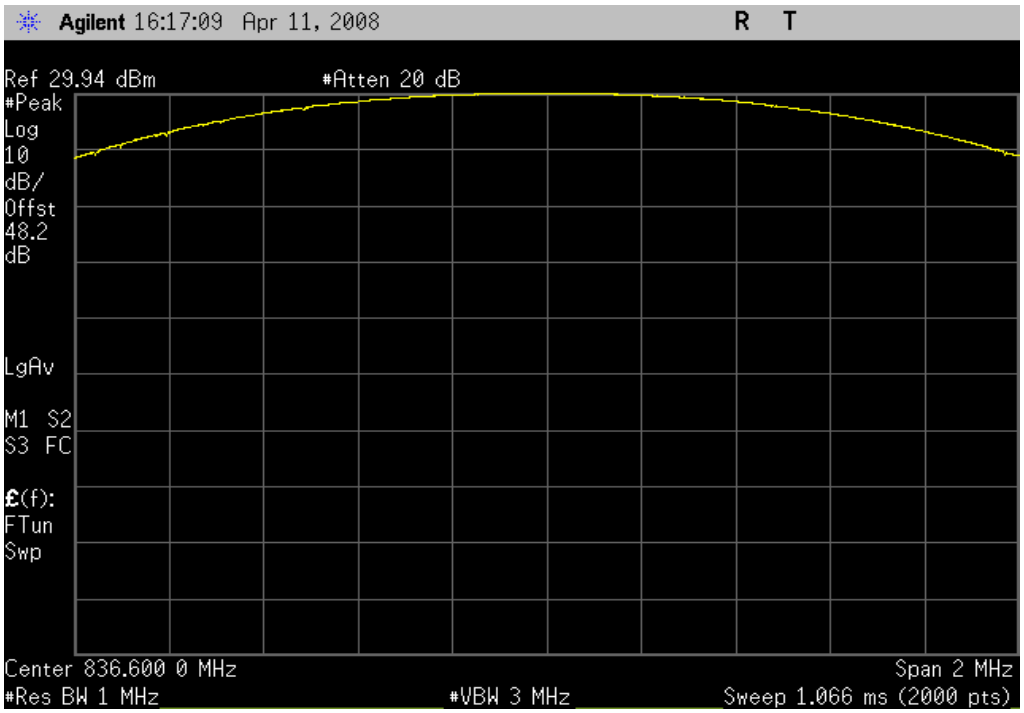
EDGE Modulation, Low Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	291.6 kHz	**Limit:**	N/A



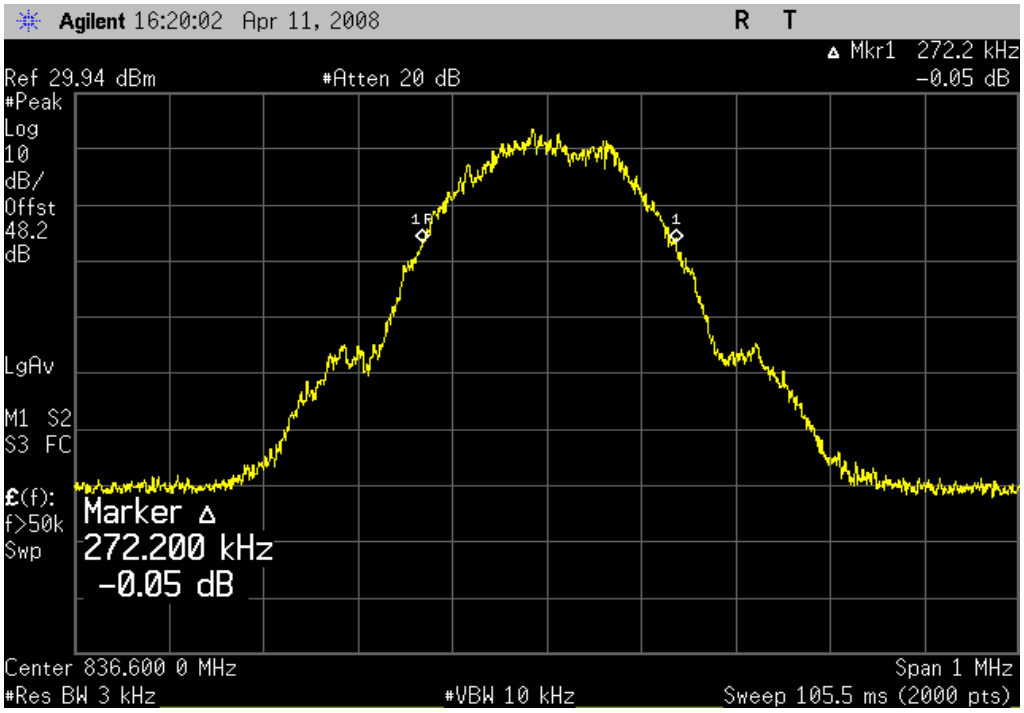
EDGE Modulation, Low Channel, Band Edge					
Result:	Pass	**Value:**	-15.66 dBm	**Limit:**	≤ -13 dBm



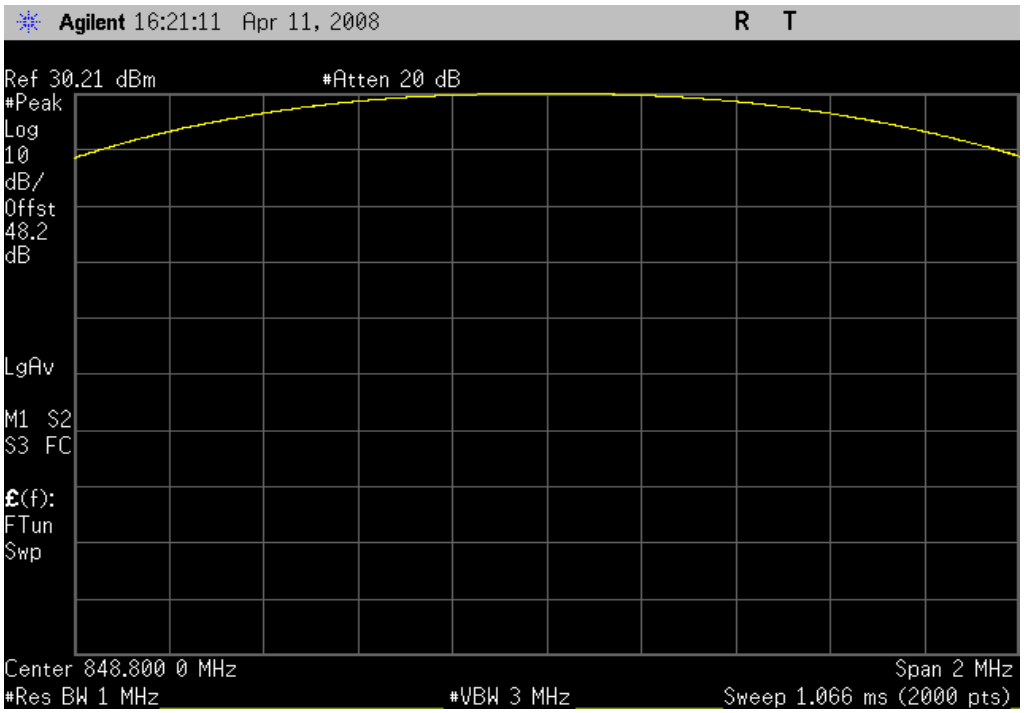
EDGE Modulation, Mid Channel, Reference Level Plot					
Result:	Pass	**Value:**	29.94 dBm	**Limit:**	N/A



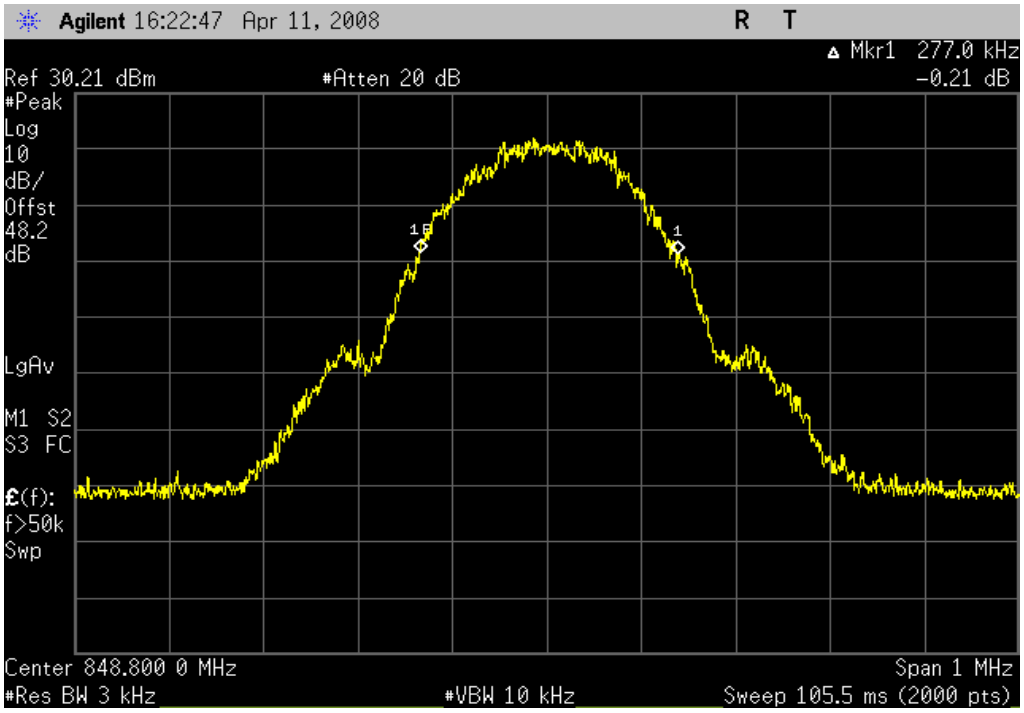
EDGE Modulation, Mid Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	272.2 kHz	**Limit:**	N/A



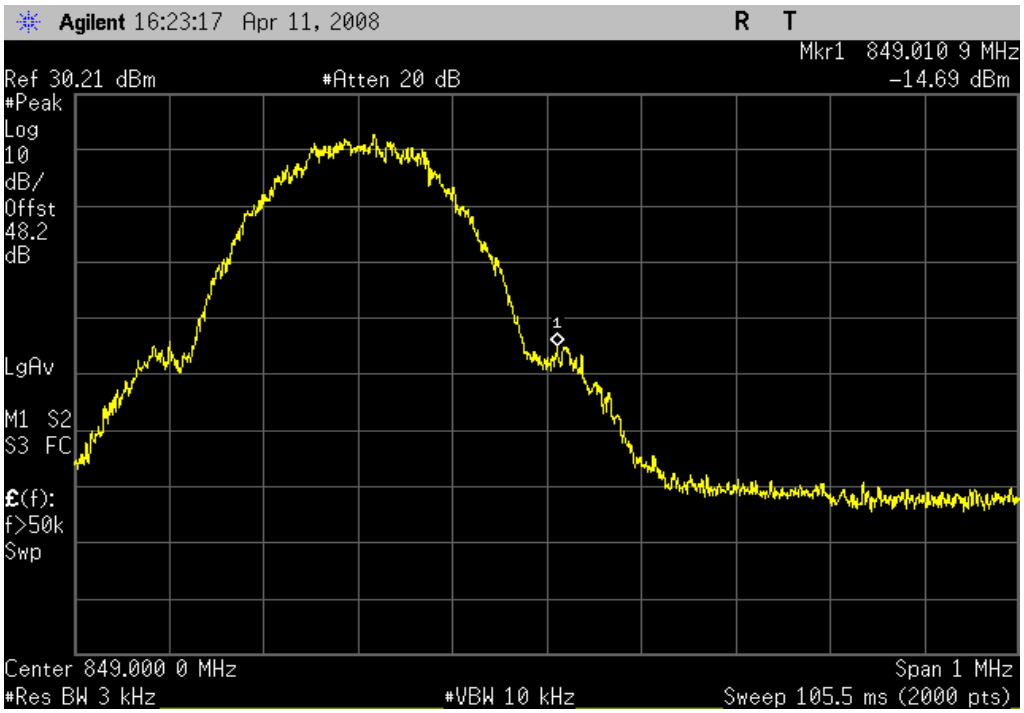
EDGE Modulation, High Channel, Reference Level Plot					
Result:	Pass	**Value:**	30.21 dBm	**Limit:**	N/A

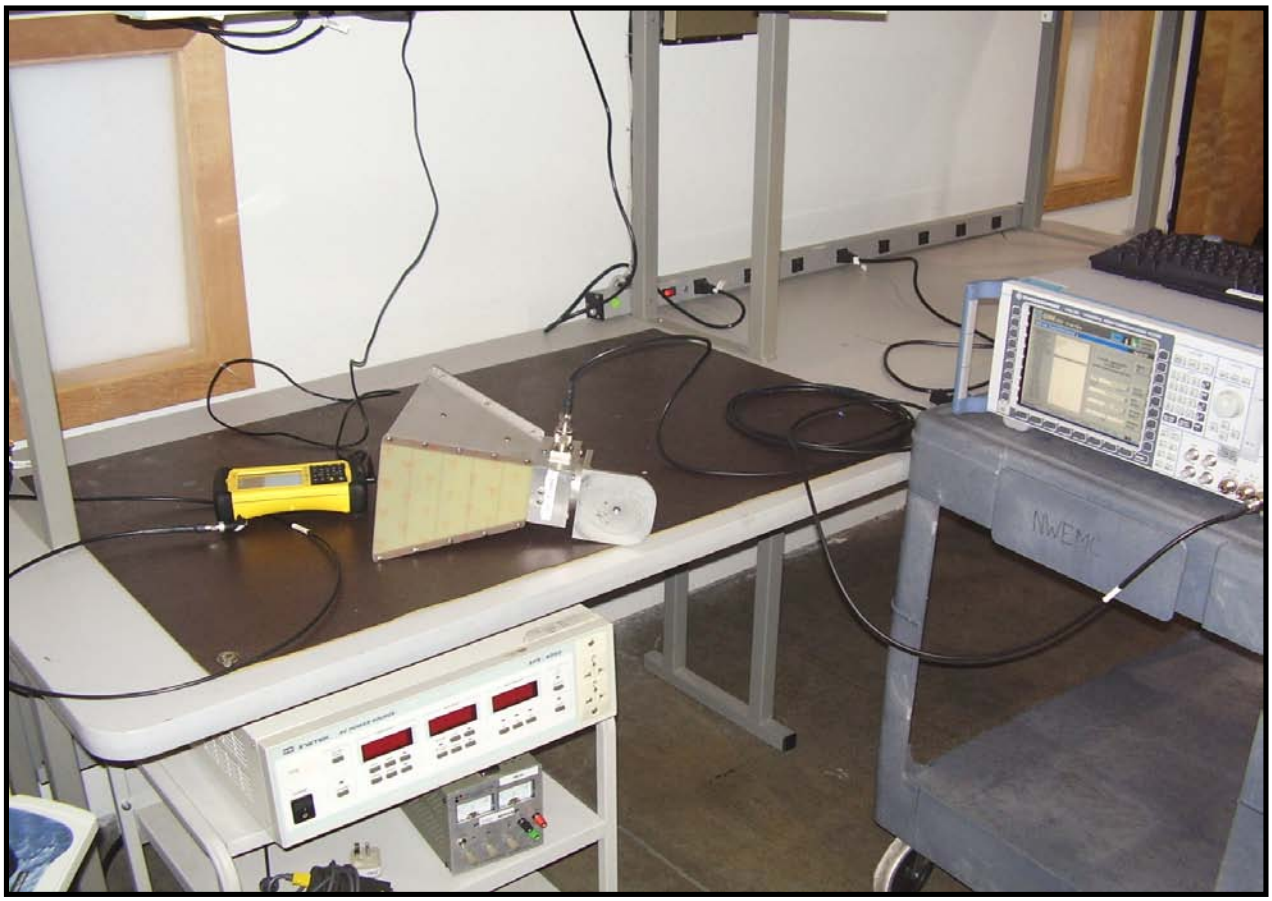


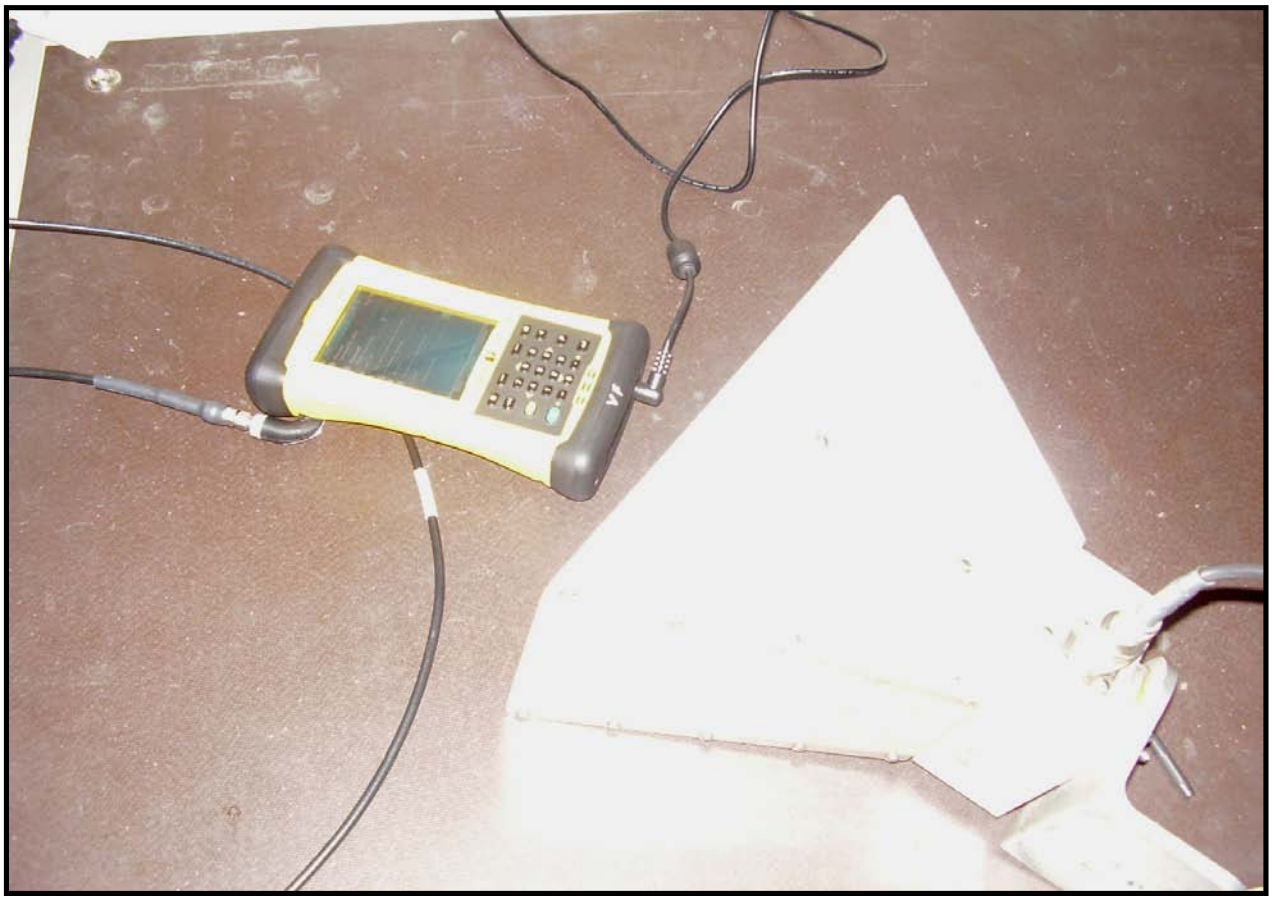
EDGE Modulation, High Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	277.0 kHz	**Limit:**	N/A



EDGE Modulation, High Channel, Band Edge					
Result:	Pass	**Value:**	-14.69 dBm	**Limit:**	≤ -13 dBm







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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Weinschel Corp.	54A-30	RBM	NCR	0
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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

The 99% bandwidth was measured utilizing the analyzer's peak detector and measuring the carrier's 20 dB occupied bandwidth.

A direct connection was made between the EUT and a spectrum analyzer. At 300Hz 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 >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 for continuous modulated operation at the lowest, middle and highest channels of the operational band.

NORTHWEST EMC

OCCUPIED BANDWIDTH

XMit 2006.08.25

EUT:	Siemens MC75 installed in TDS Nomad			Work Order:	TRPO0040
Serial Number:	None			Date:	04/10/08
Customer:	Tripod Data Systems, Inc.			Temperature:	22°C
Attendees:	None			Humidity:	31%
Project:	None			Barometric Pres.:	1019.1
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

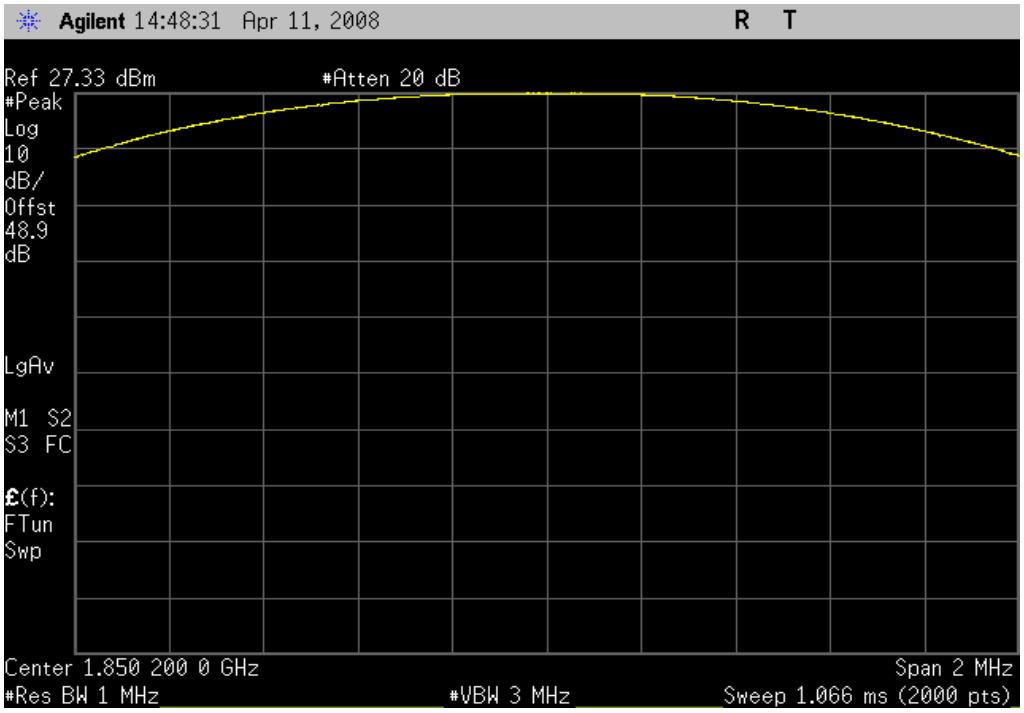
DEVIATIONS FROM TEST STANDARD

No deviations

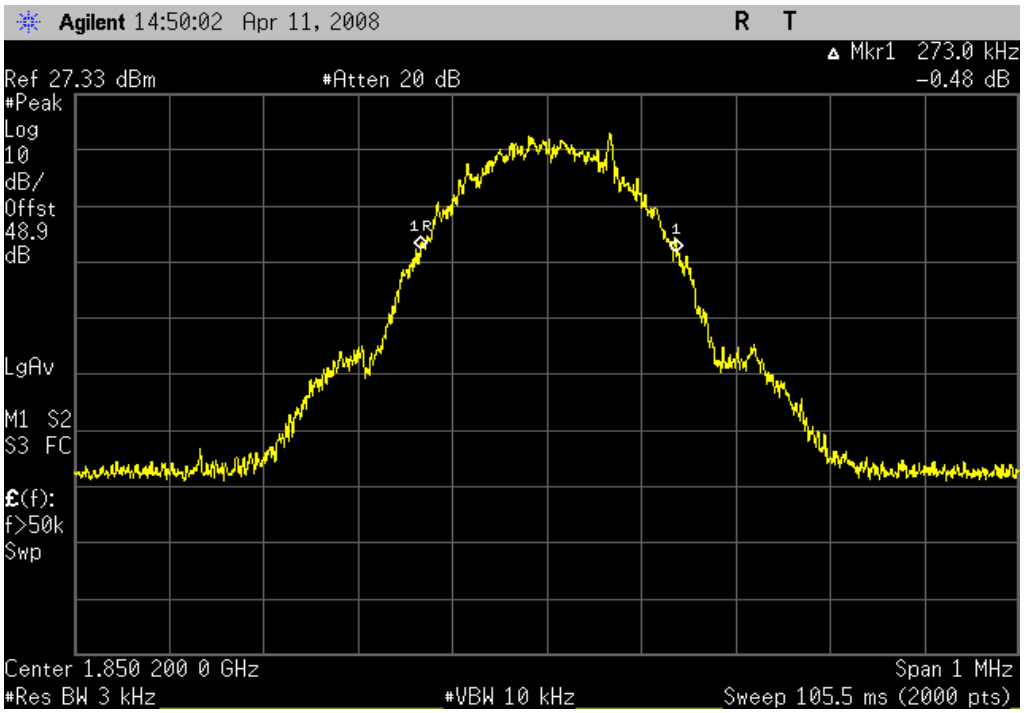
Configuration #	2	Signature Holly Ashkannejhad

		Value	Limit	Results
GSM Modulation				
	Low Channel			
	Reference Level Plot	27.33 dBm	N/A	Pass
	Occupied Bandwidth	273.0 kHz	N/A	Pass
	Band Edge	-17.67 dBm	≤ -13 dBm	Pass
	Mid Channel			
	Reference Level Plot	26.51 dBm	N/A	Pass
	Occupied Bandwidth	264.7 kHz	N/A	Pass
	High Channel			
	Reference Level Plot	25.65 dBm	N/A	Pass
	Occupied Bandwidth	274.2 kHz	N/A	Pass
	Band Edge	-18.26 dBm	≤ -13 dBm	Pass
GPRS Modulation				
	Low Channel			
	Reference Level Plot	27.3 dBm	N/A	Pass
	Occupied Bandwidth	280.1 kHz	N/A	Pass
	Band Edge	-16.38 dBm	≤ -13 dBm	Pass
	Mid Channel			
	Reference Level Plot	26.55 dBm	N/A	Pass
	Occupied Bandwidth	269.3 kHz	N/A	Pass
	High Channel			
	Reference Level Plot	25.71 dBm	N/A	Pass
	Occupied Bandwidth	276.3 kHz	N/A	Pass
	Band Edge	-19.1 dBm	≤ - 13 dBm	Pass
EDGE Modulation				
	Low Channel			
	Reference Level Plot	27.28 dBm	N/A	Pass
	Occupied Bandwidth	265.4 kHz	N/A	Pass
	Band Edge	19.5 dBm	≤ - 13 dBm	Pass
	Mid Channel			
	Reference Level Plot	26.54 dBm	N/A	Pass
	Occupied Bandwidth	271.8 kHz	N/A	Pass
	High Channel			
	Reference Level Plot	25.73 dBm	N/A	Pass
	Occupied Bandwidth	279.3 kHz	N/A	Pass
	Band Edge	-18.79 dBm	≤ -13 dBm	Pass

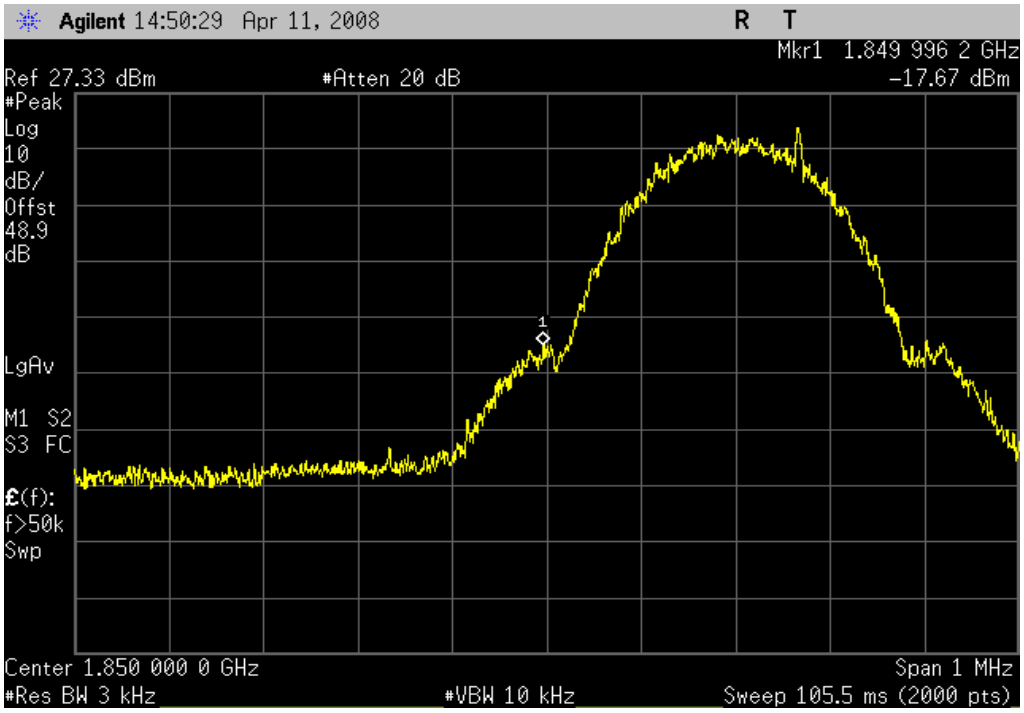
GSM Modulation, Low Channel, Reference Level Plot					
Result:	Pass	**Value:**	27.33 dBm	**Limit:**	N/A



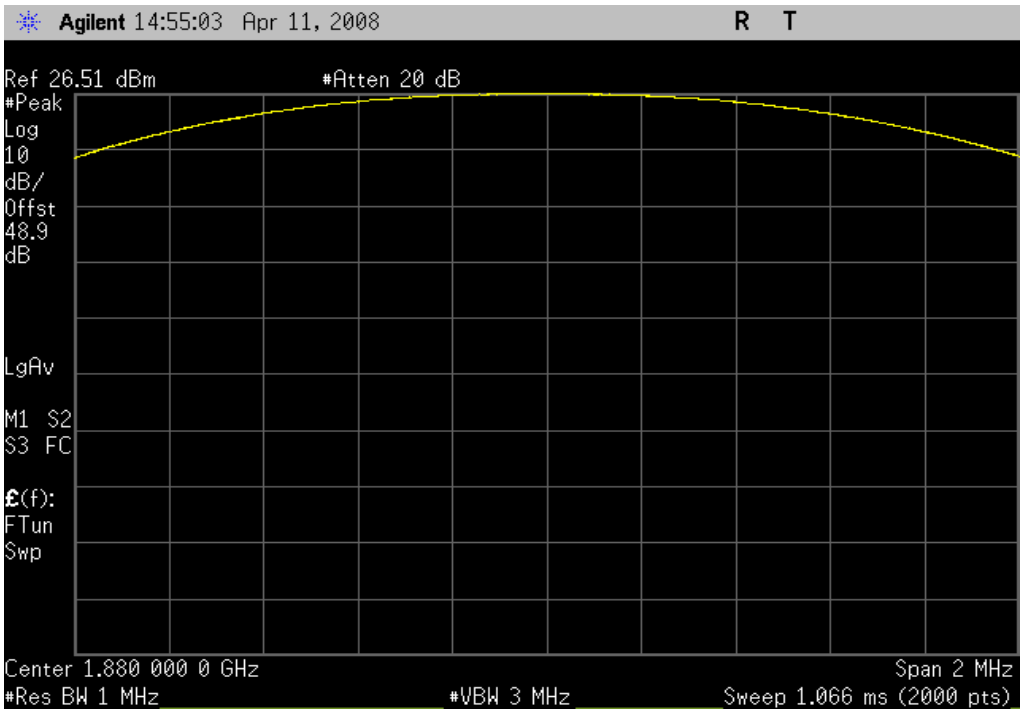
GSM Modulation, Low Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	273.0 kHz	**Limit:**	N/A



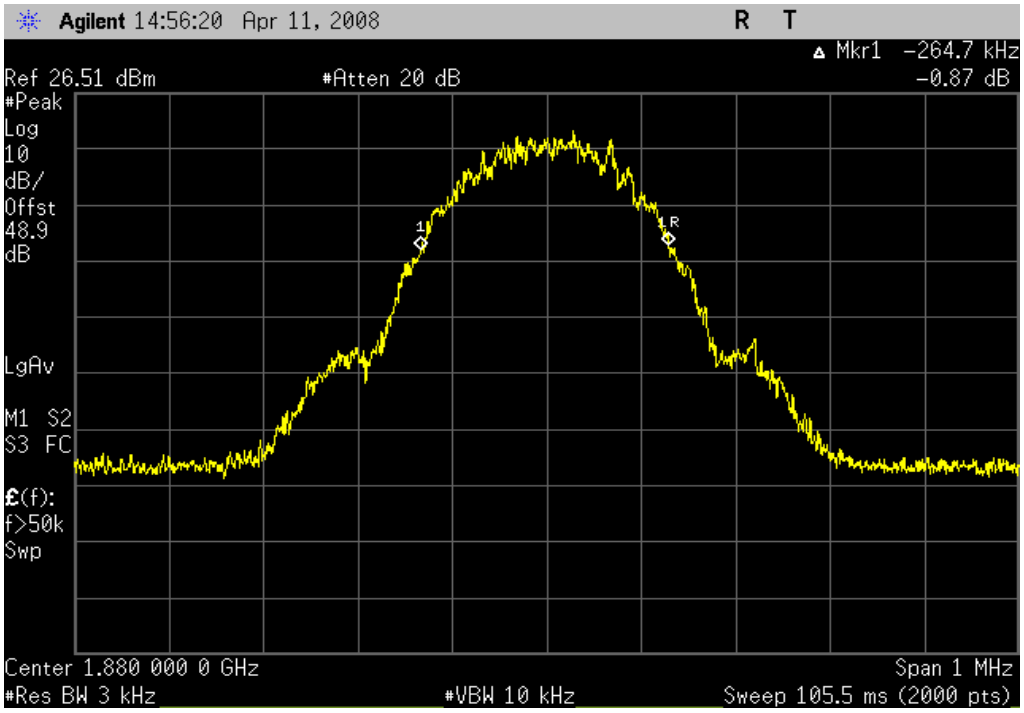
GSM Modulation, Low Channel, Band Edge					
Result:	Pass	**Value:**	-17.67 dBm	**Limit:**	≤ -13 dBm



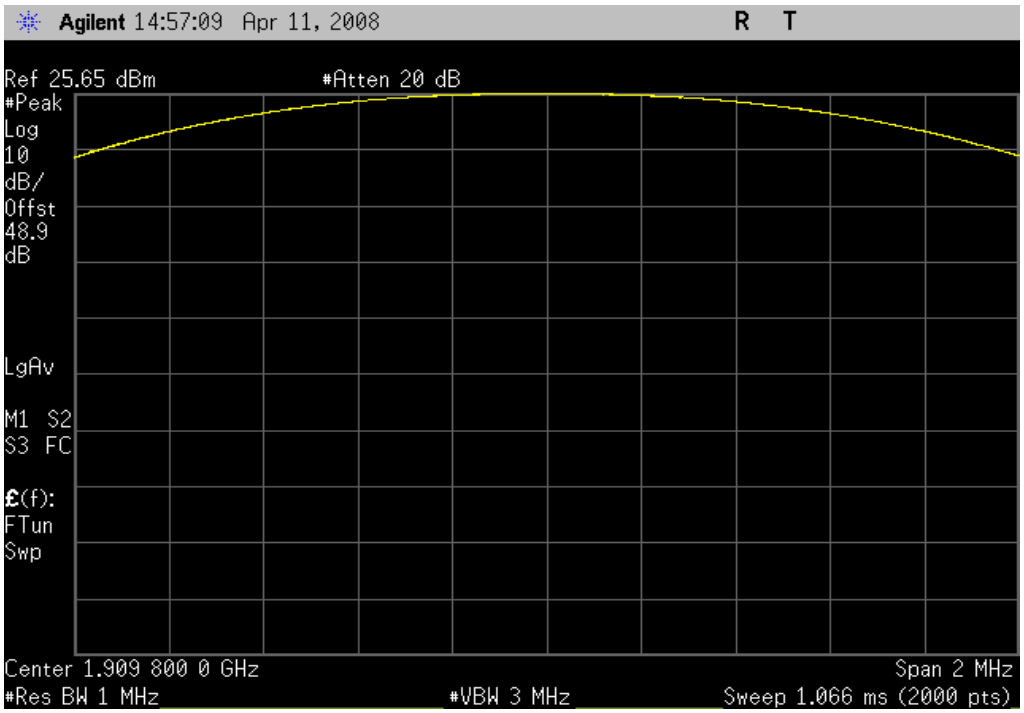
GSM Modulation, Mid Channel, Reference Level Plot					
Result:	Pass	**Value:**	26.51 dBm	**Limit:**	N/A



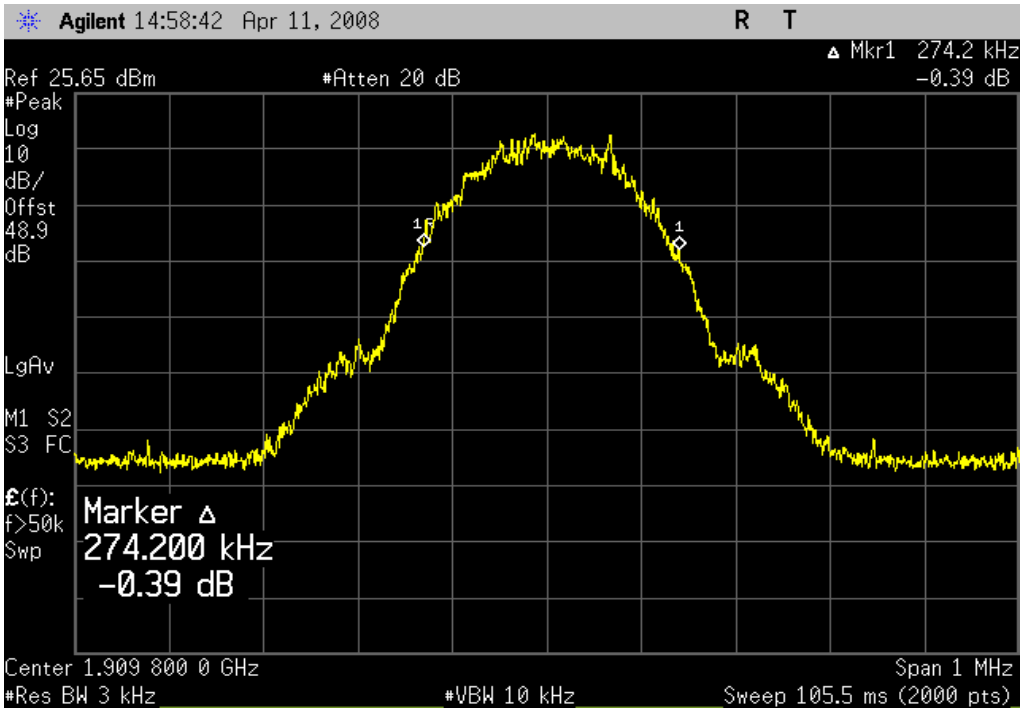
GSM Modulation, Mid Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	264.7 kHz	**Limit:**	N/A



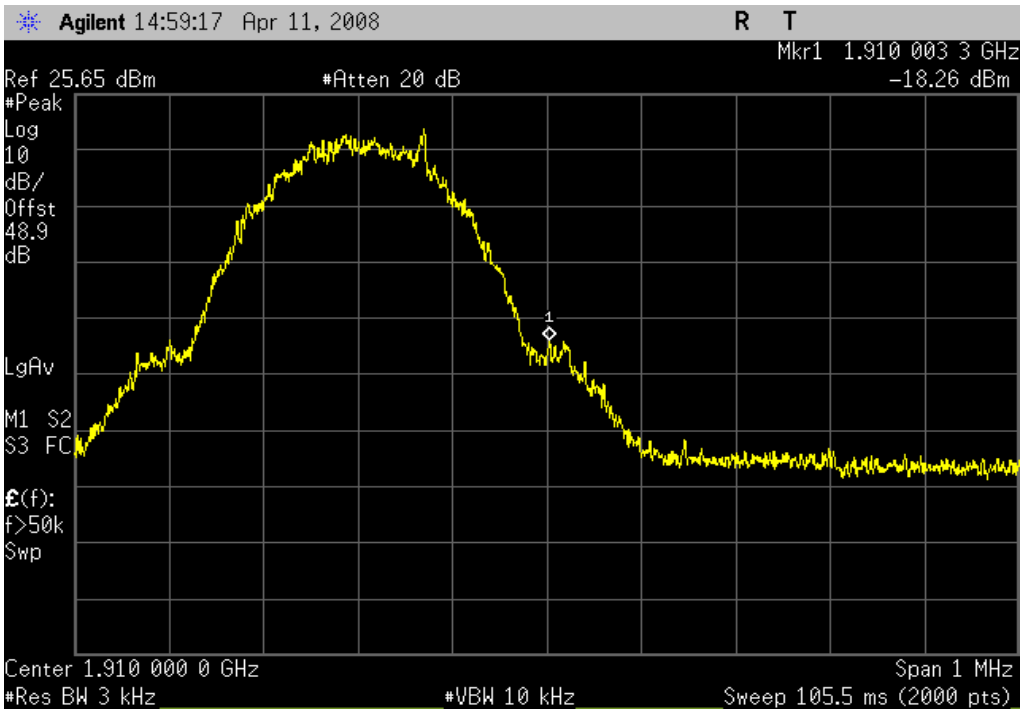
GSM Modulation, High Channel, Reference Level Plot					
Result:	Pass	**Value:**	25.65 dBm	**Limit:**	N/A



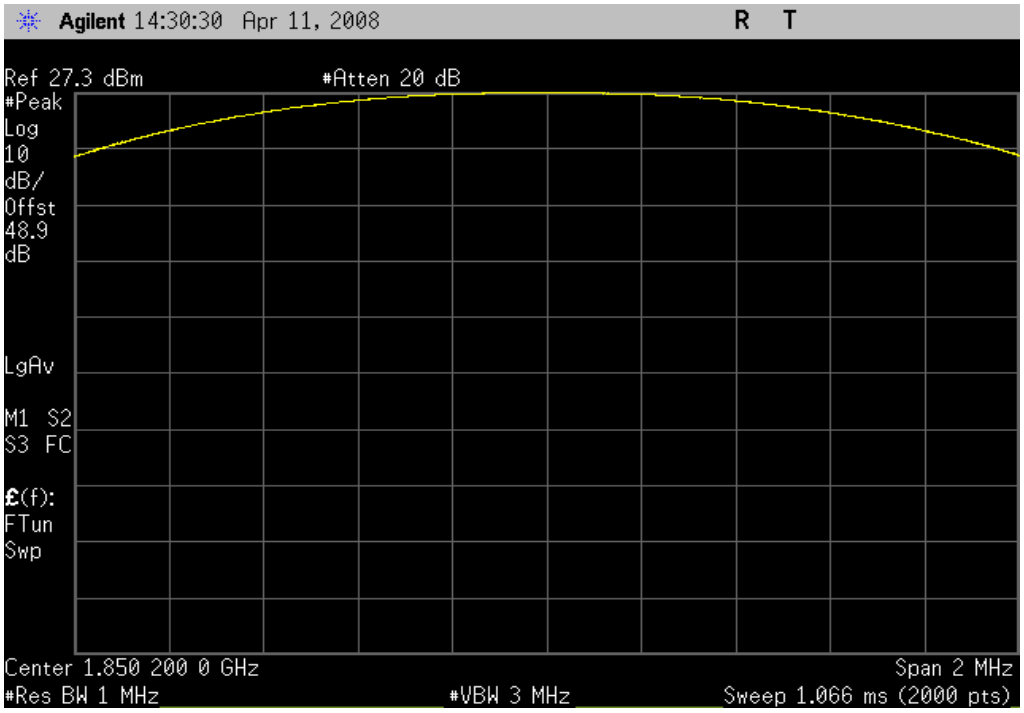
GSM Modulation, High Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	274.2 kHz	**Limit:**	N/A



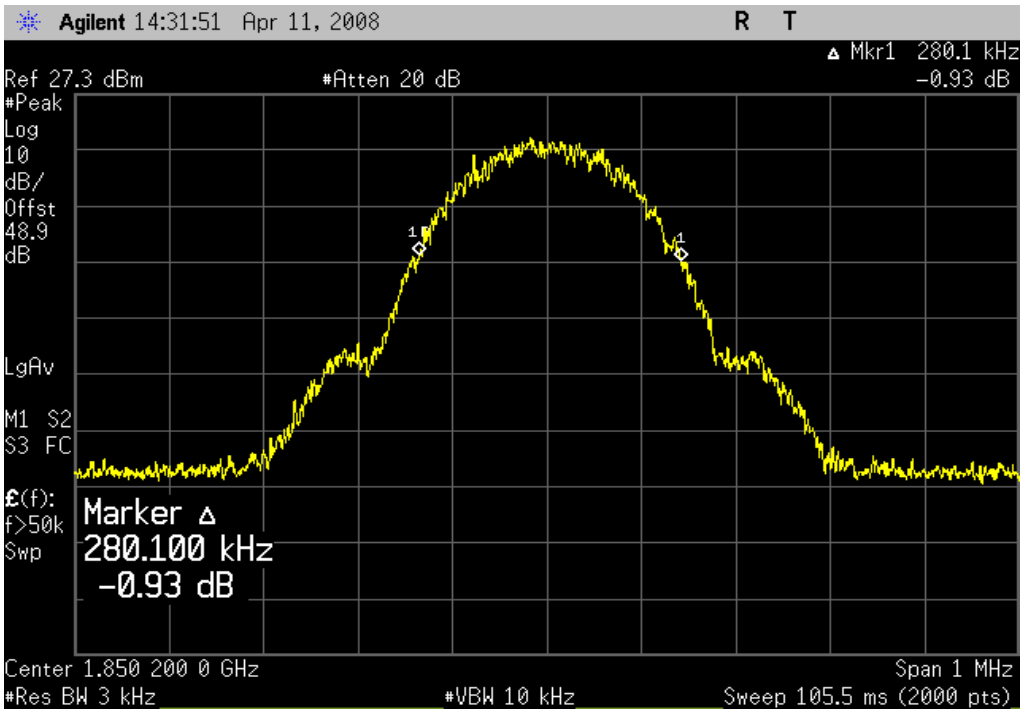
GSM Modulation, High Channel, Band Edge					
Result:	Pass	**Value:**	-18.26 dBm	**Limit:**	≤ -13 dBm



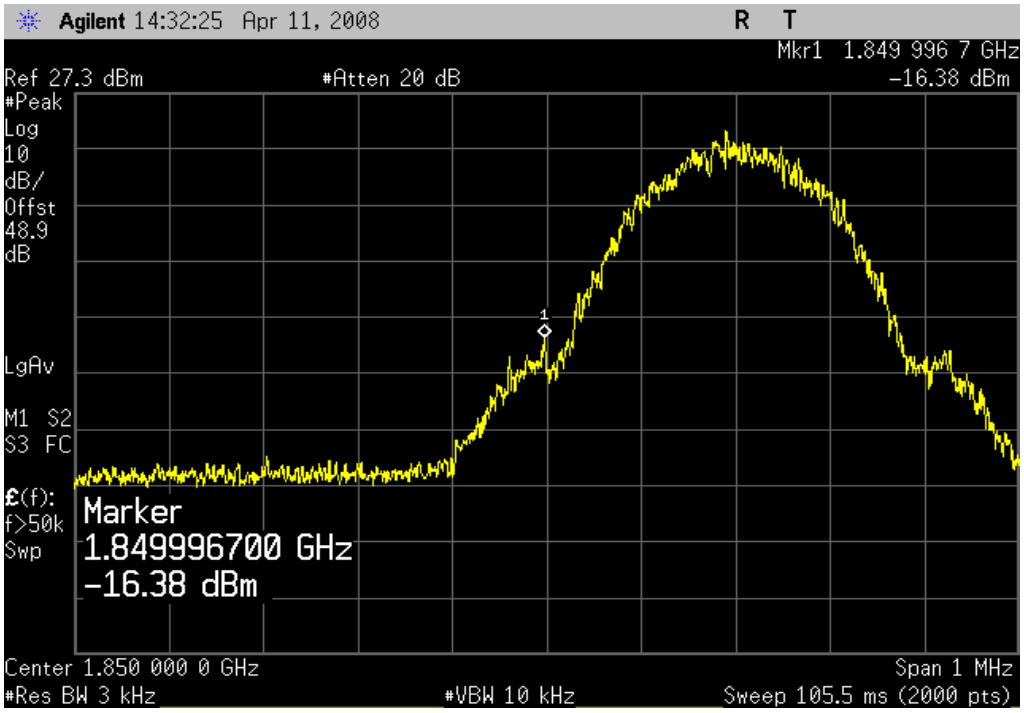
GPRS Modulation, Low Channel, Reference Level Plot					
Result:	Pass	**Value:**	27.3 dBm	**Limit:**	N/A



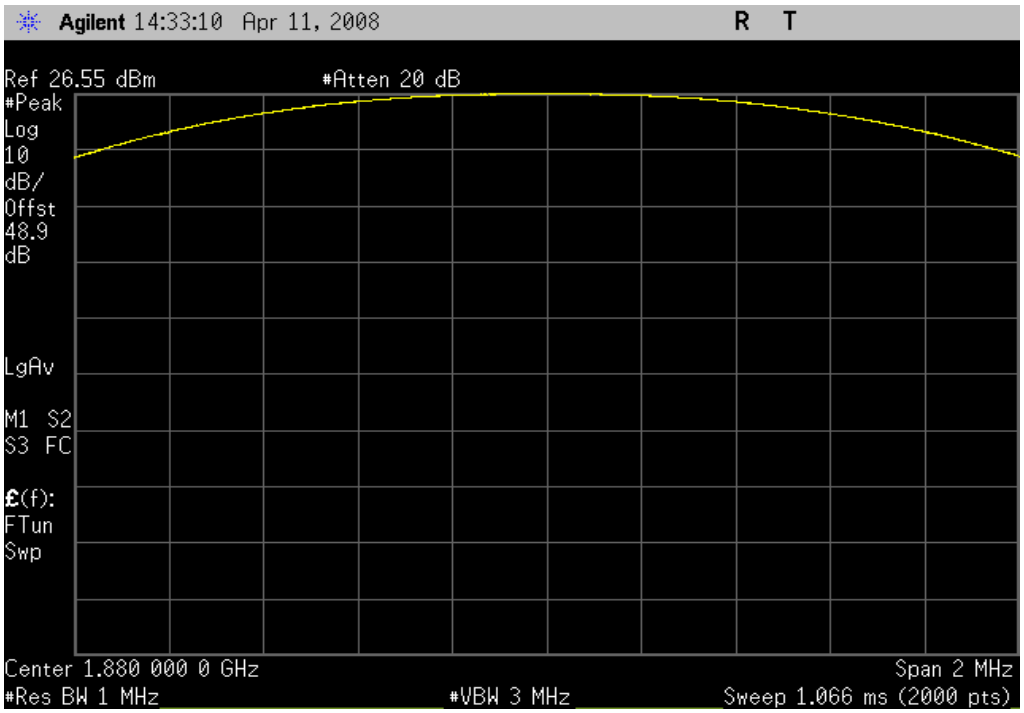
GPRS Modulation, Low Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	280.1 kHz	**Limit:**	N/A



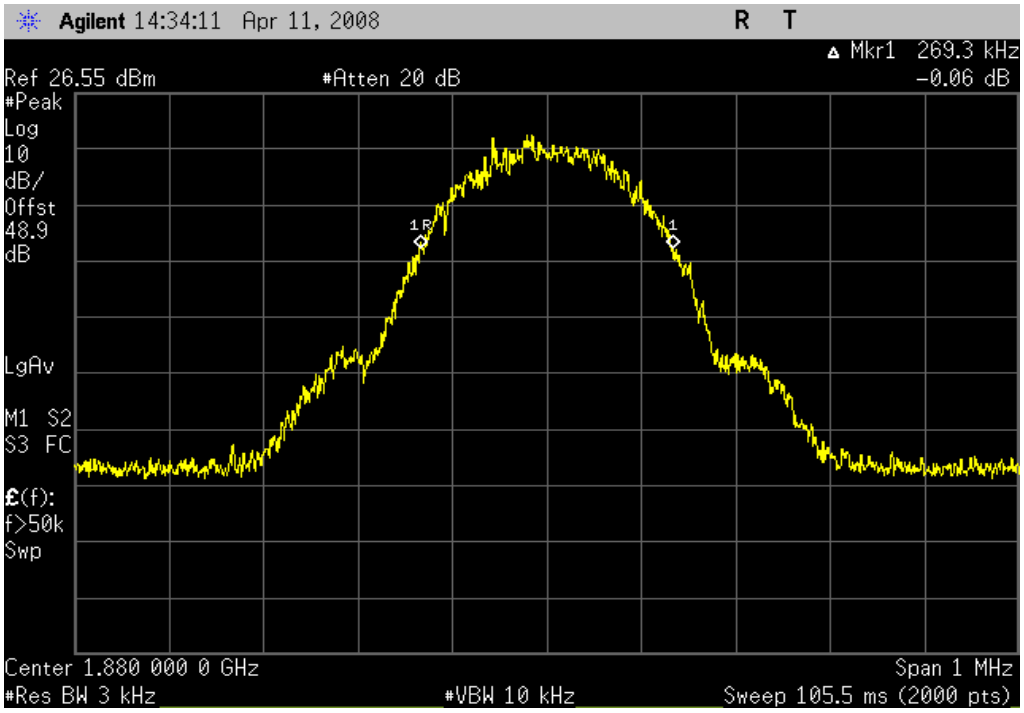
GPRS Modulation, Low Channel, Band Edge					
Result:	Pass	**Value:**	-16.38 dBm	**Limit:**	≤ -13 dBm



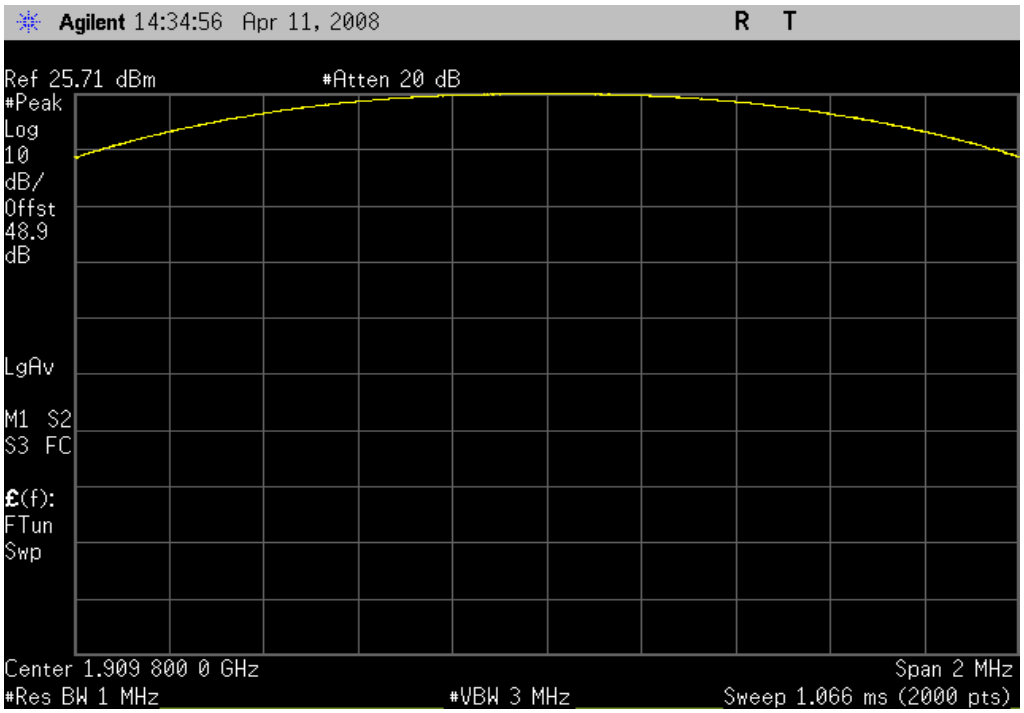
GPRS Modulation, Mid Channel, Reference Level Plot					
Result:	Pass	**Value:**	26.55 dBm	**Limit:**	N/A



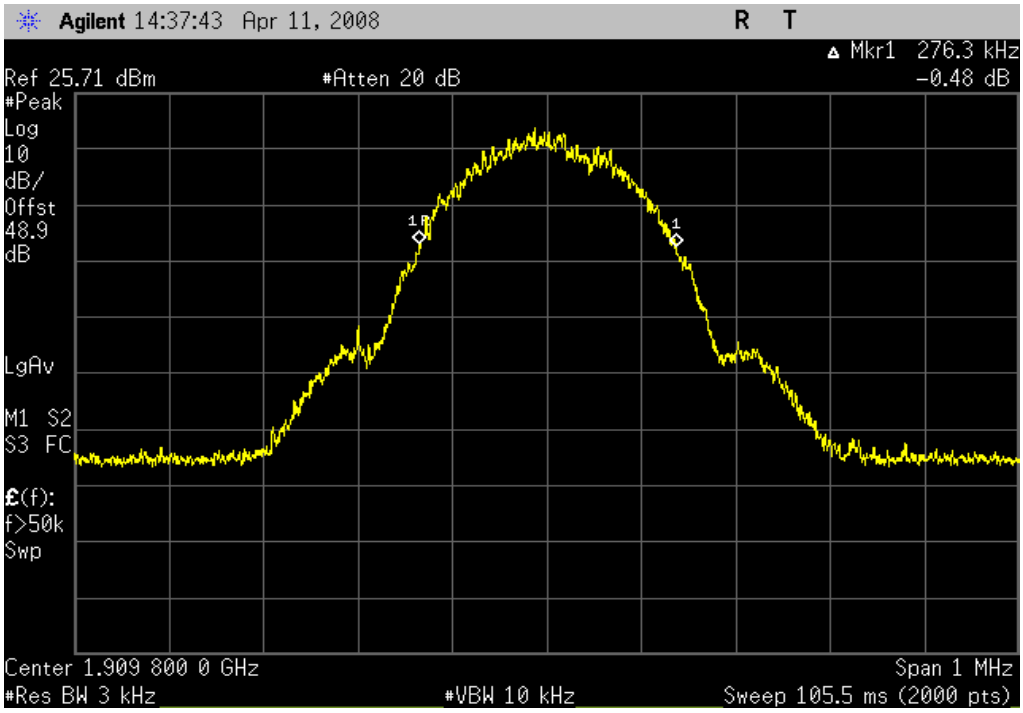
GPRS Modulation, Mid Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	269.3 kHz	**Limit:**	N/A



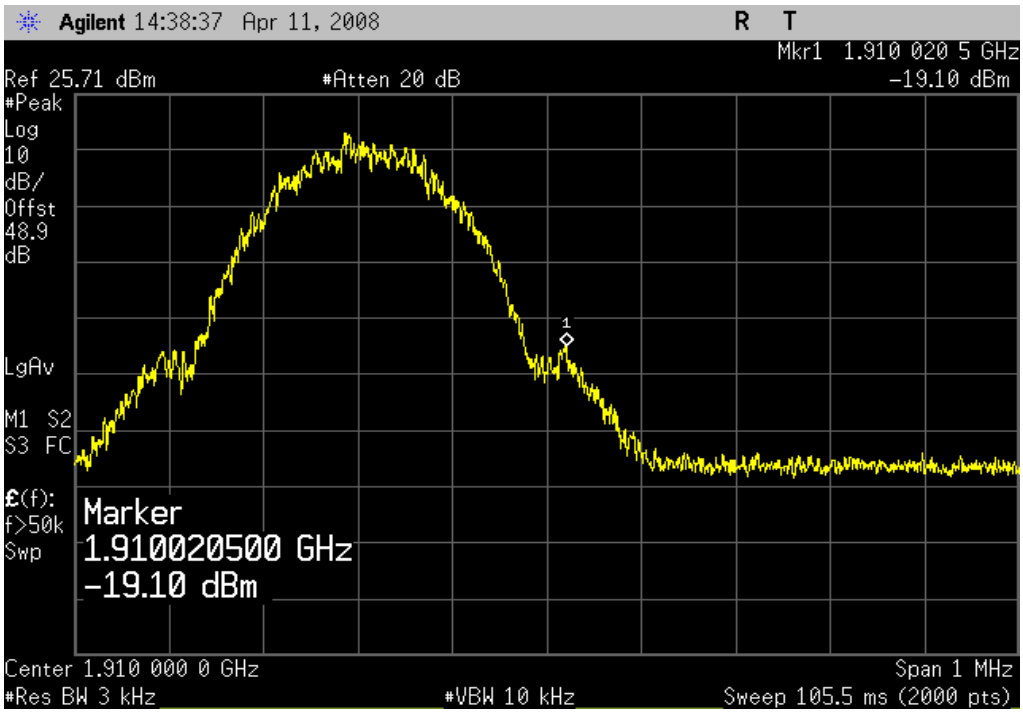
GPRS Modulation, High Channel, Reference Level Plot					
Result:	Pass	**Value:**	25.71 dBm	**Limit:**	N/A



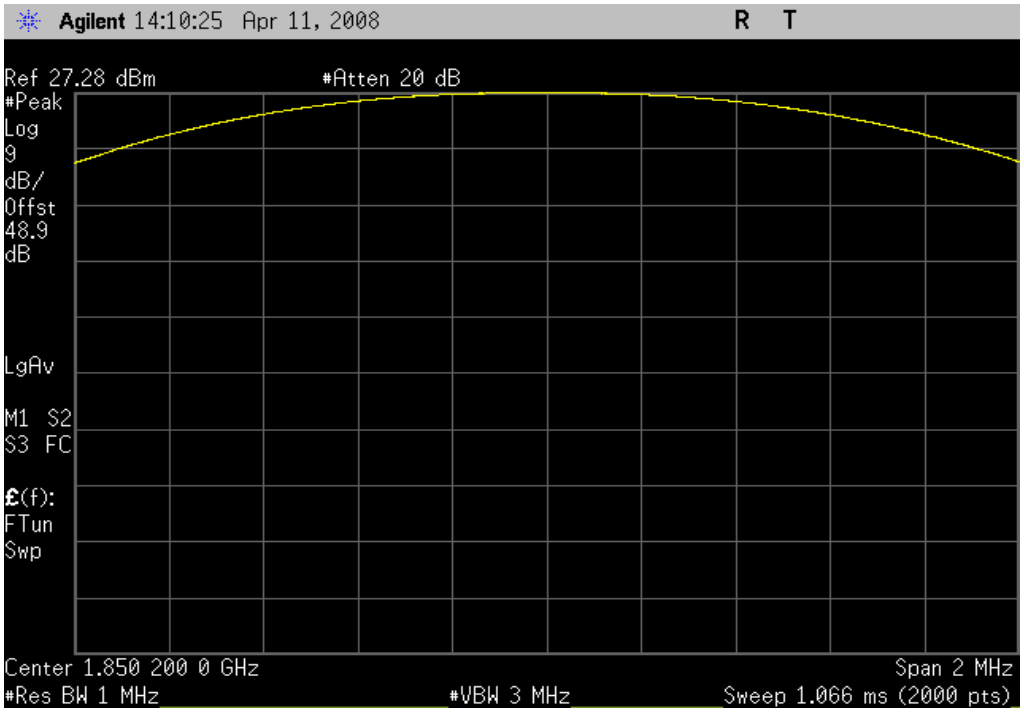
GPRS Modulation, High Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	276.3 kHz	**Limit:**	N/A



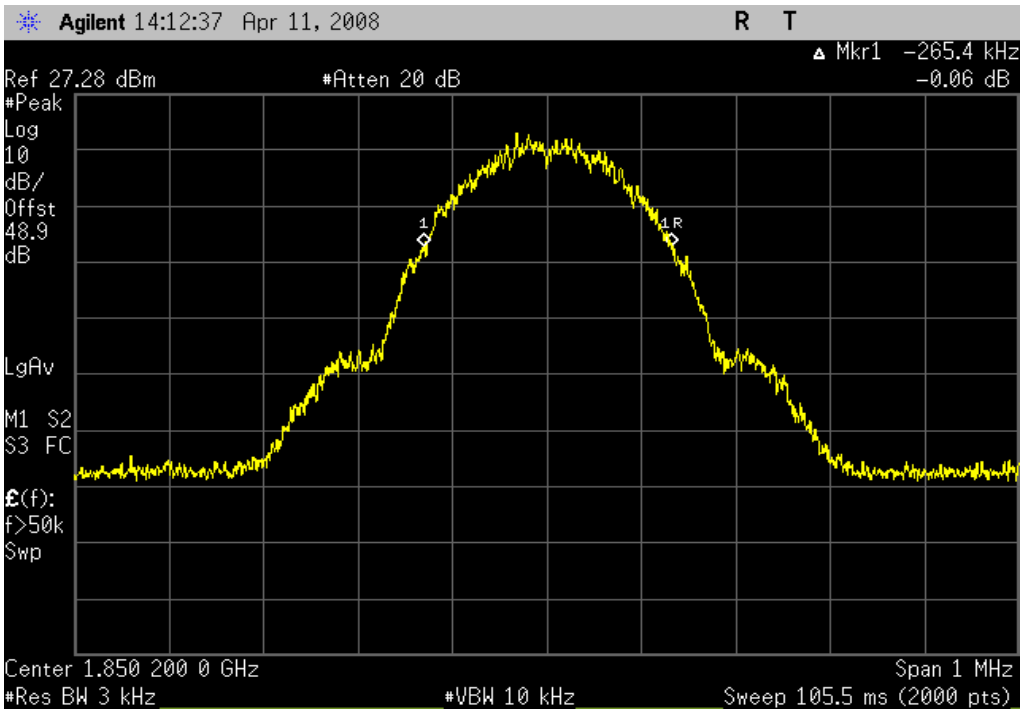
GPRS Modulation, High Channel, Band Edge					
Result:	Pass	**Value:**	-19.1 dBm	**Limit:**	≤ - 13 dBm



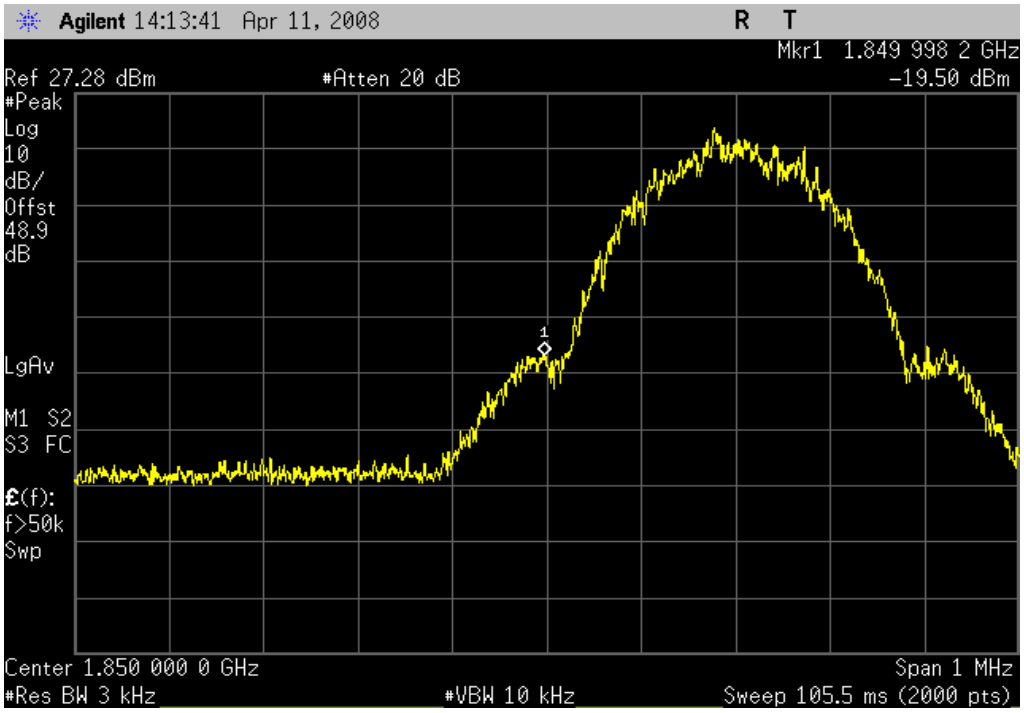
EDGE Modulation, Low Channel, Reference Level Plot					
Result:	Pass	**Value:**	27.28 dBm	**Limit:**	N/A



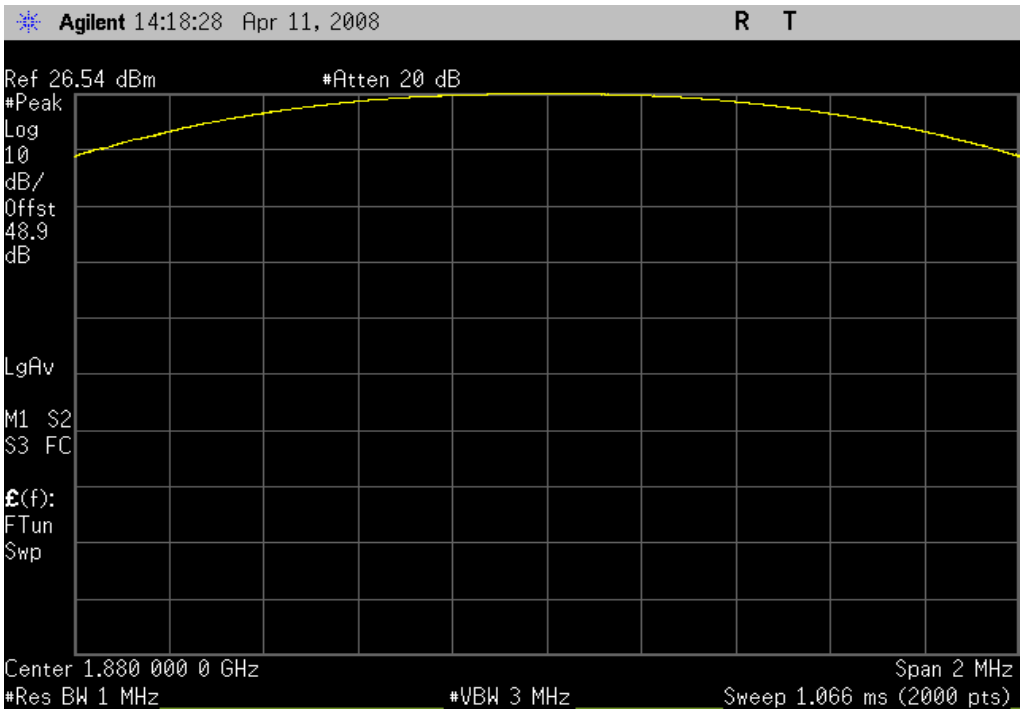
EDGE Modulation, Low Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	265.4 kHz	**Limit:**	N/A



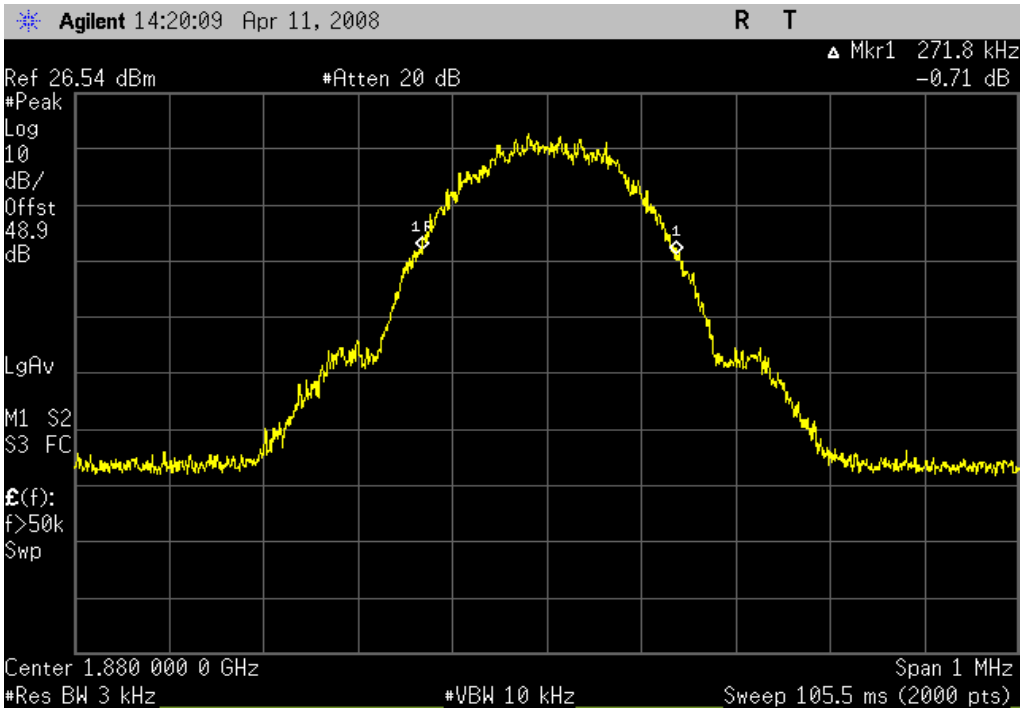
EDGE Modulation, Low Channel, Band Edge					
Result:	Pass	**Value:**	19.5 dBm	**Limit:**	≤ - 13 dBm



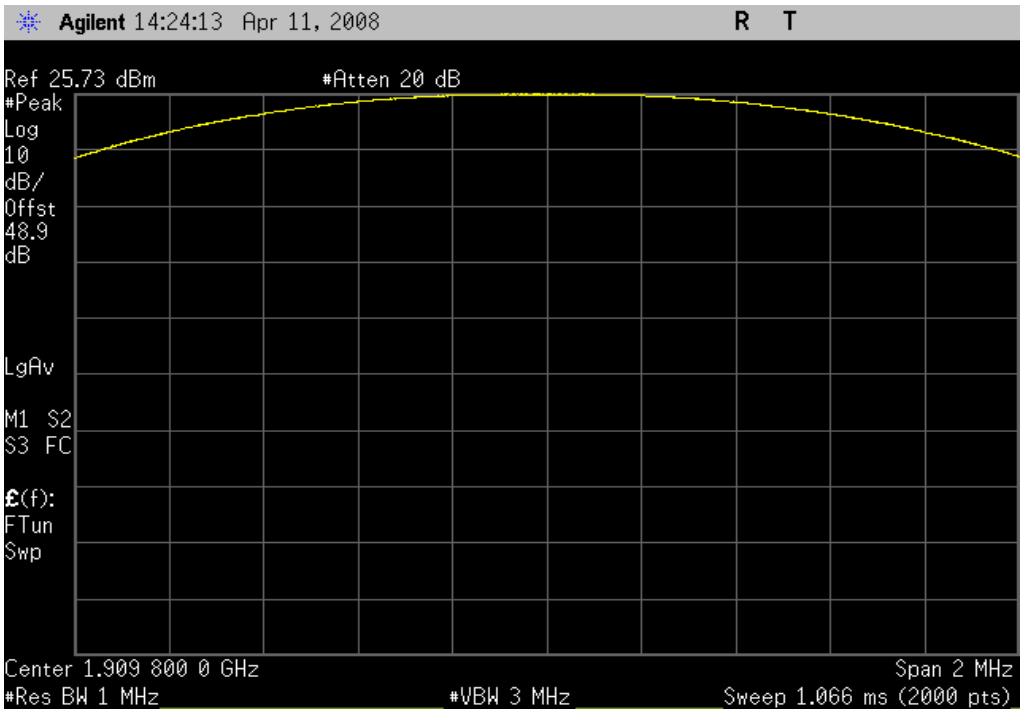
EDGE Modulation, Mid Channel, Reference Level Plot					
Result:	Pass	**Value:**	26.54 dBm	**Limit:**	N/A



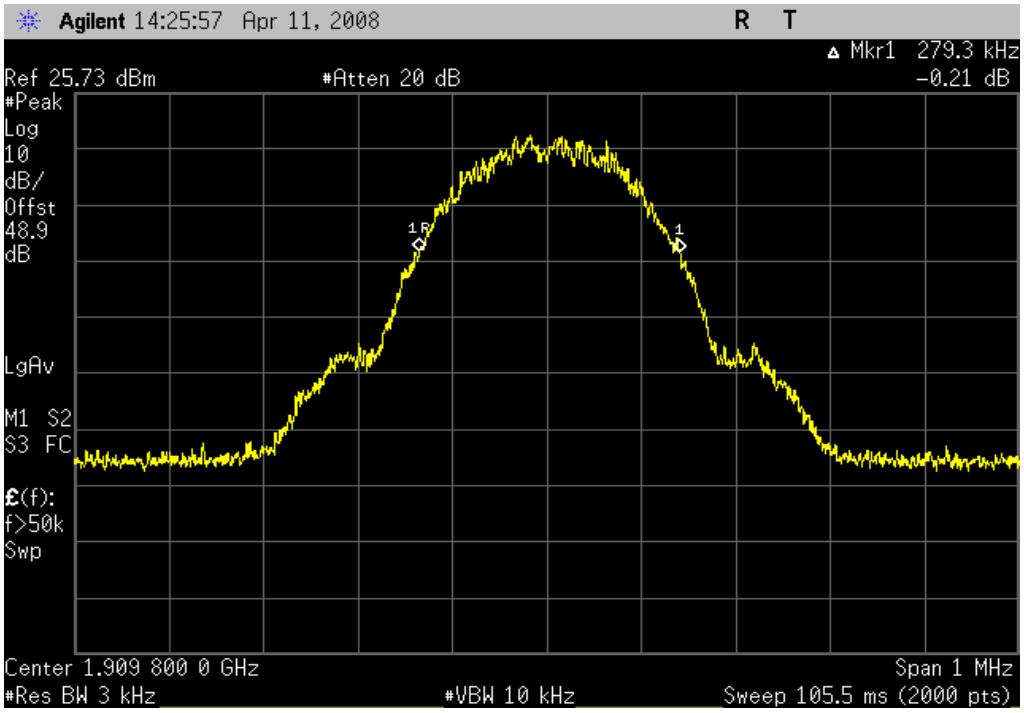
EDGE Modulation, Mid Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	271.8 kHz	**Limit:**	N/A



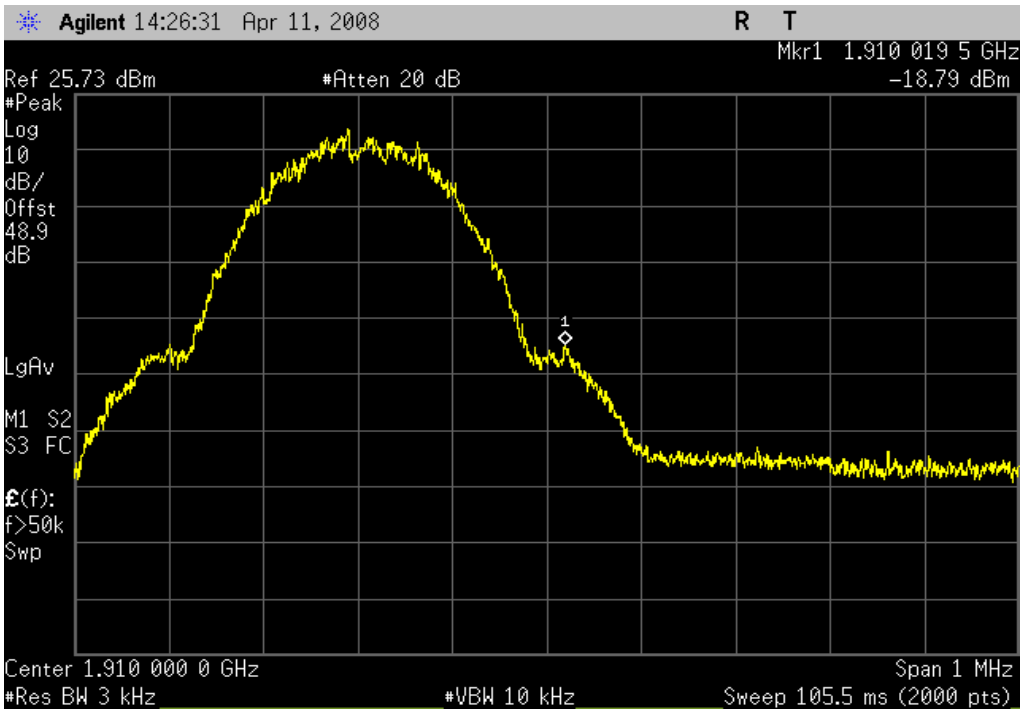
EDGE Modulation, High Channel, Reference Level Plot					
Result:	Pass	**Value:**	25.73 dBm	**Limit:**	N/A

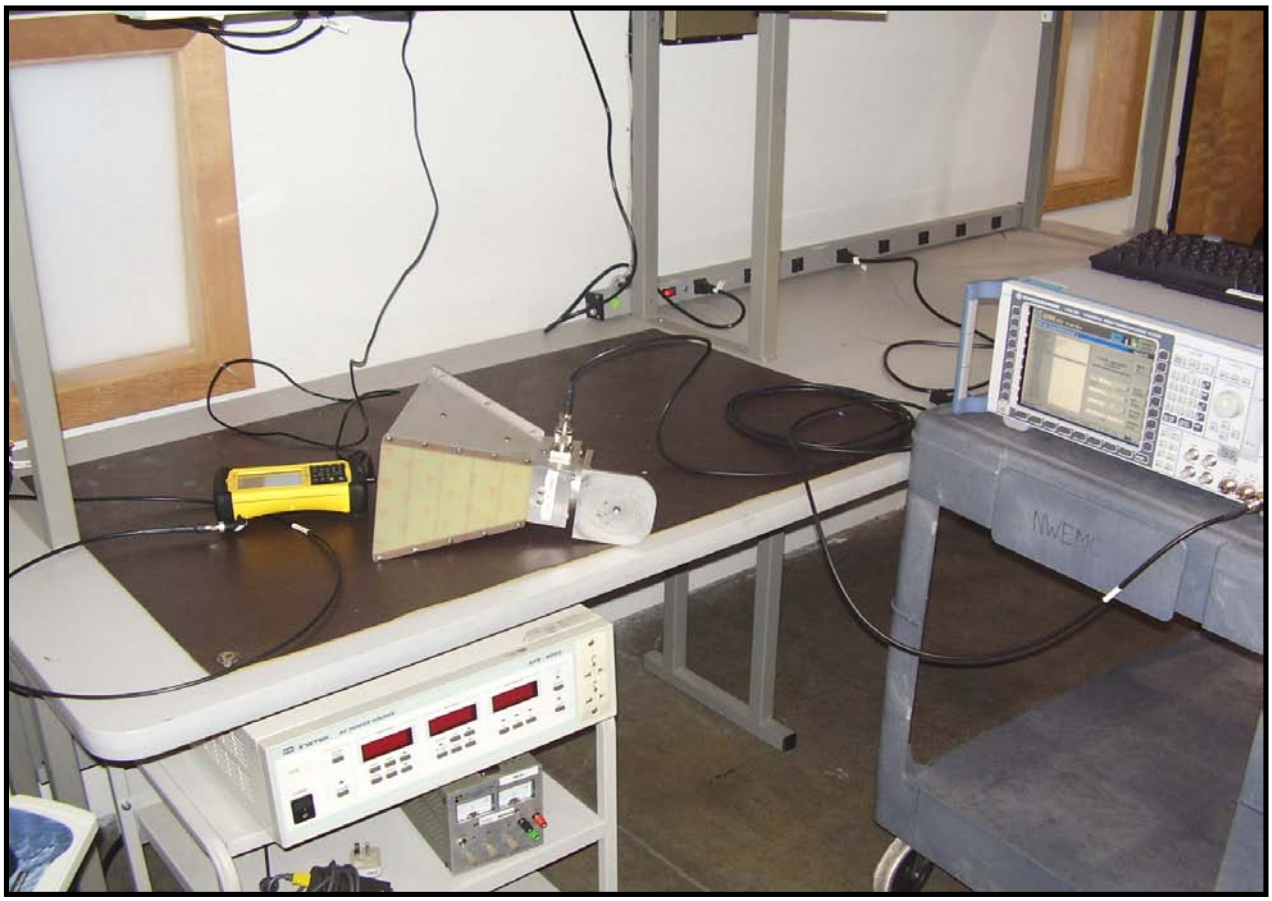


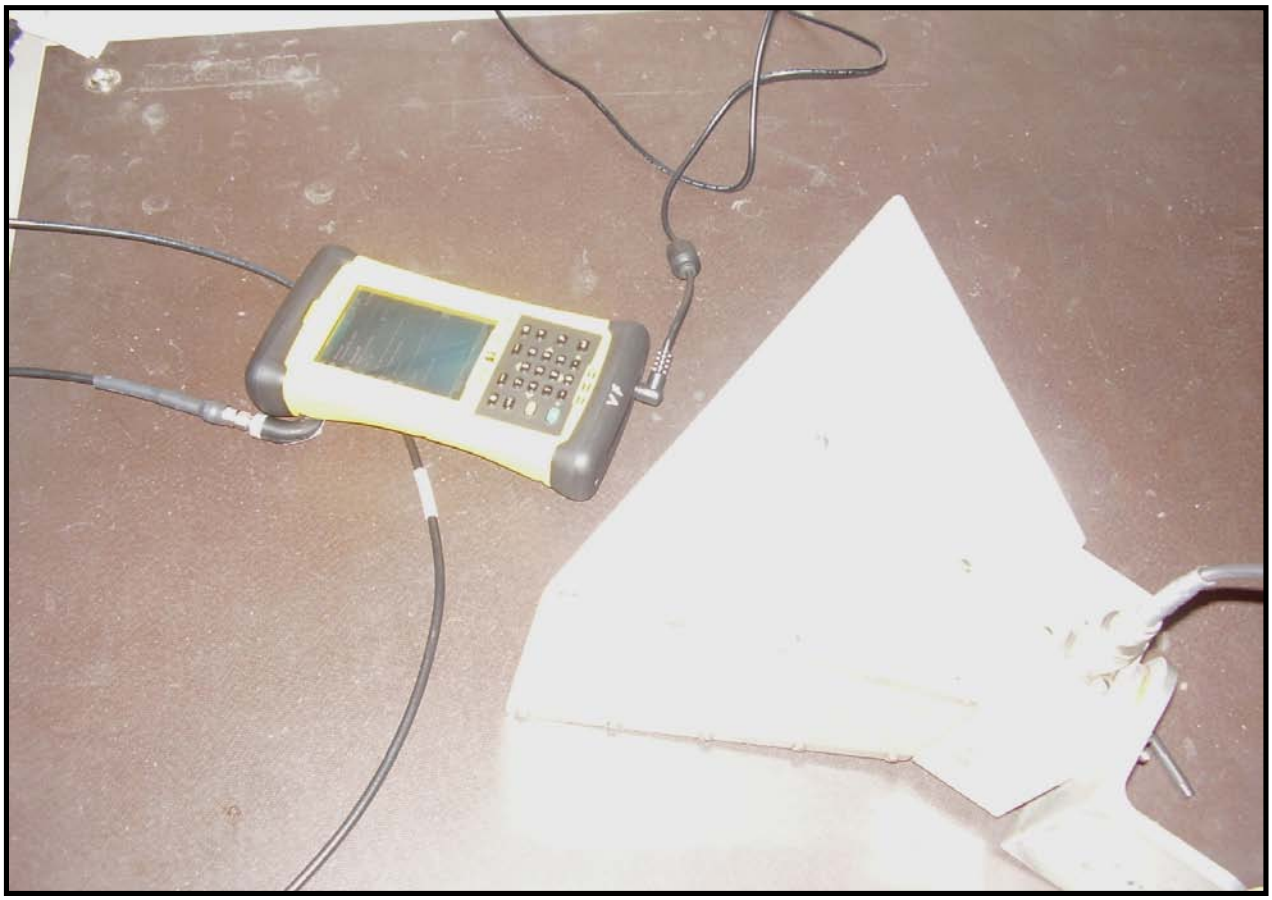
EDGE Modulation, High Channel, Occupied Bandwidth					
Result:	Pass	**Value:**	279.3 kHz	**Limit:**	N/A



EDGE Modulation, High Channel, Band Edge					
Result:	Pass	**Value:**	-18.79 dBm	**Limit:**	≤ -13 dBm







PEAK 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
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Attenuator	Weinschel Corp.	54A-30	RBM	NCR	0
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

PEAK OUTPUT POWER

EUT:	Siemens MC75 installed in TDS Nomad			**Work Order:**	TRPO0040
Serial Number:	None			**Date:**	04/10/08
Customer:	Tripod Data Systems, Inc.			**Temperature:**	22°C
Attendees:	None			**Humidity:**	31%
Project:	None			**Barometric Pres.:**	1019.1
Tested by:	Holly Ashkannejhad	**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

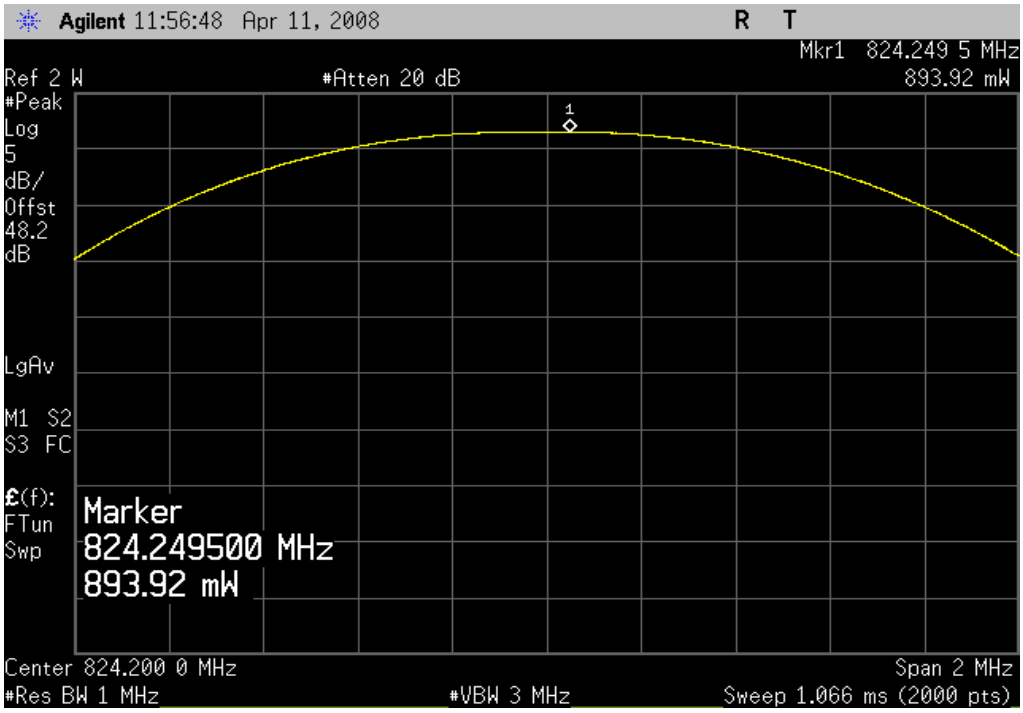
No deviations

Configuration #	2	Signature

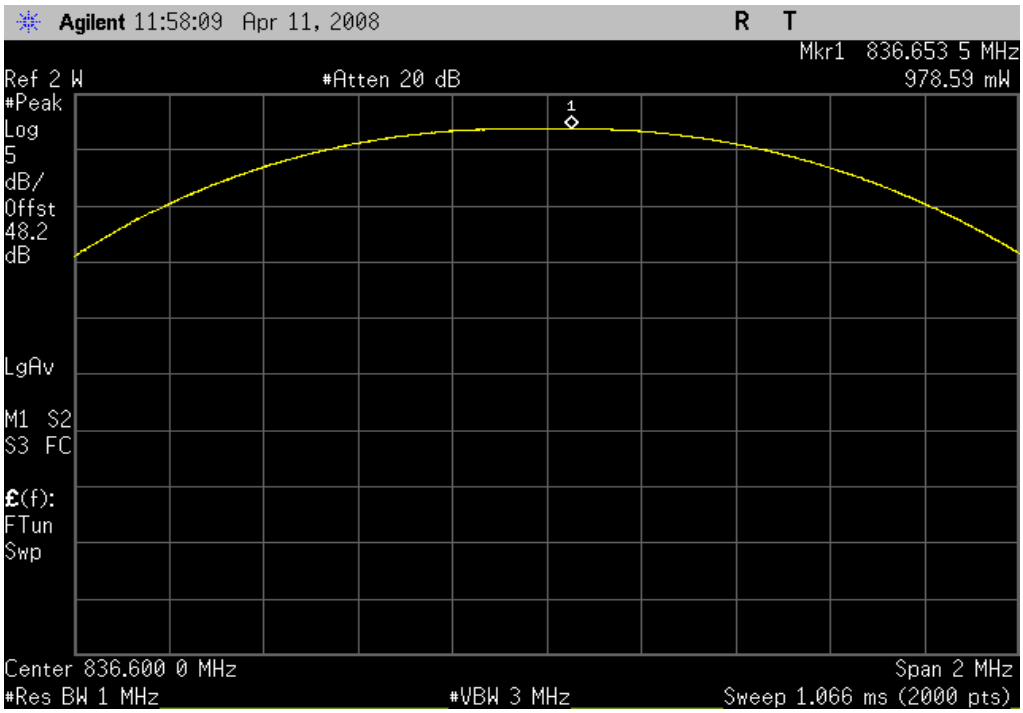
		Value	Value	Limit	Results
GSM					
	Low Channel	29.51 dBm	0.894 W	7 W	Pass
	Mid Channel	29.91 dBm	0.979 W	7 W	Pass
	High Channel	30.21 dBm	1.050 W	7 W	Pass
GPRS					
	Low Channel	29.49 dBm	0.899 W	7 W	Pass
	Mid Channel	29.92 dBm	0.981 W	7 W	Pass
	High Channel	30.21 dBm	1.050 W	7 W	Pass
EDGE					
	Low Channel	29.54 dBm	0.899 W	7 W	Pass
	Mid Channel	29.94 dBm	.0986 W	7 W	Pass
	High Channel	30.21 dBm	1.050 W	7 W	Pass

PEAK OUTPUT POWER

GSM, Low Channel					
Result:	Pass	**Value:**	0.894 W	**Limit:**	7 W

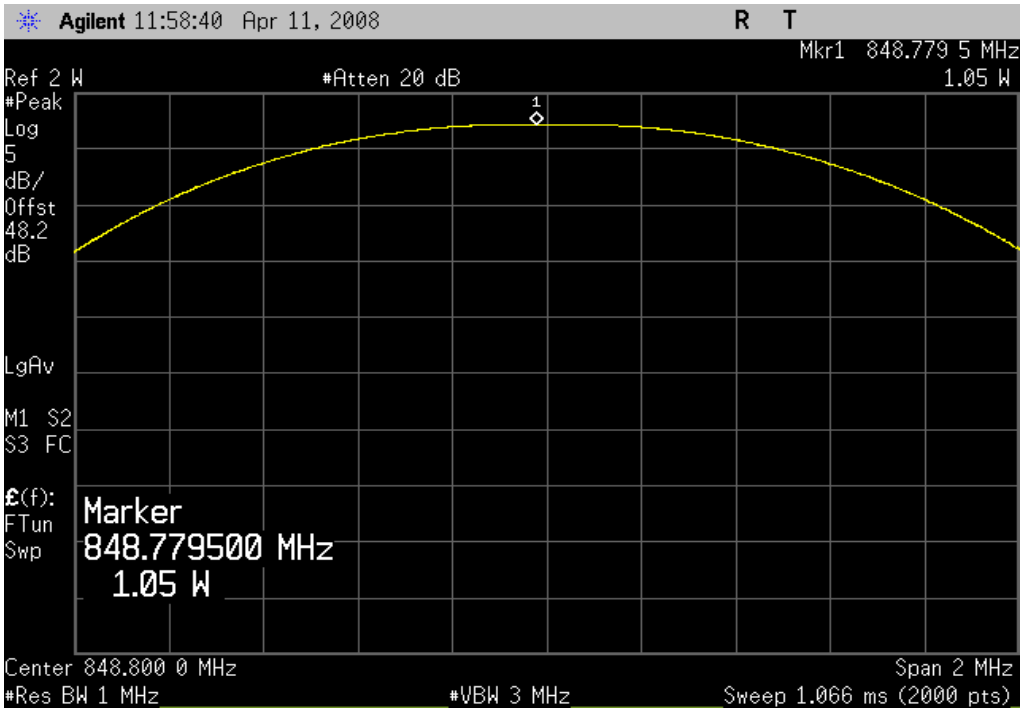


GSM, Mid Channel					
Result:	Pass	**Value:**	0.979 W	**Limit:**	7 W

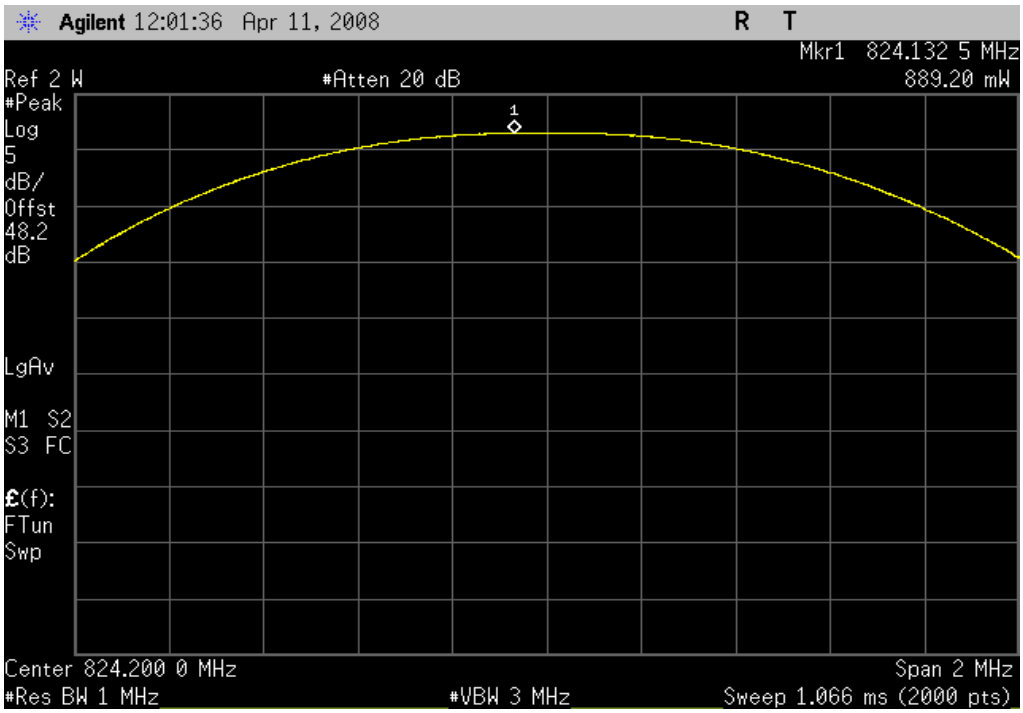


PEAK OUTPUT POWER

GSM, High Channel					
Result:	Pass	**Value:**	1.050 W	**Limit:**	7 W

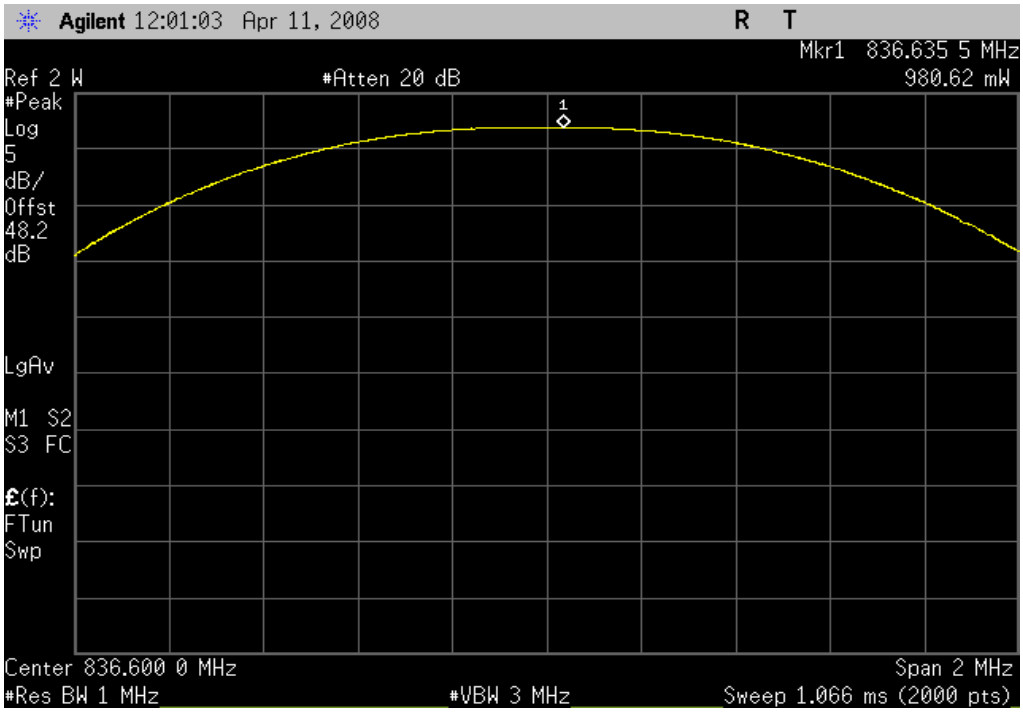


GPRS, Low Channel					
Result:	Pass	**Value:**	0.899 W	**Limit:**	7 W

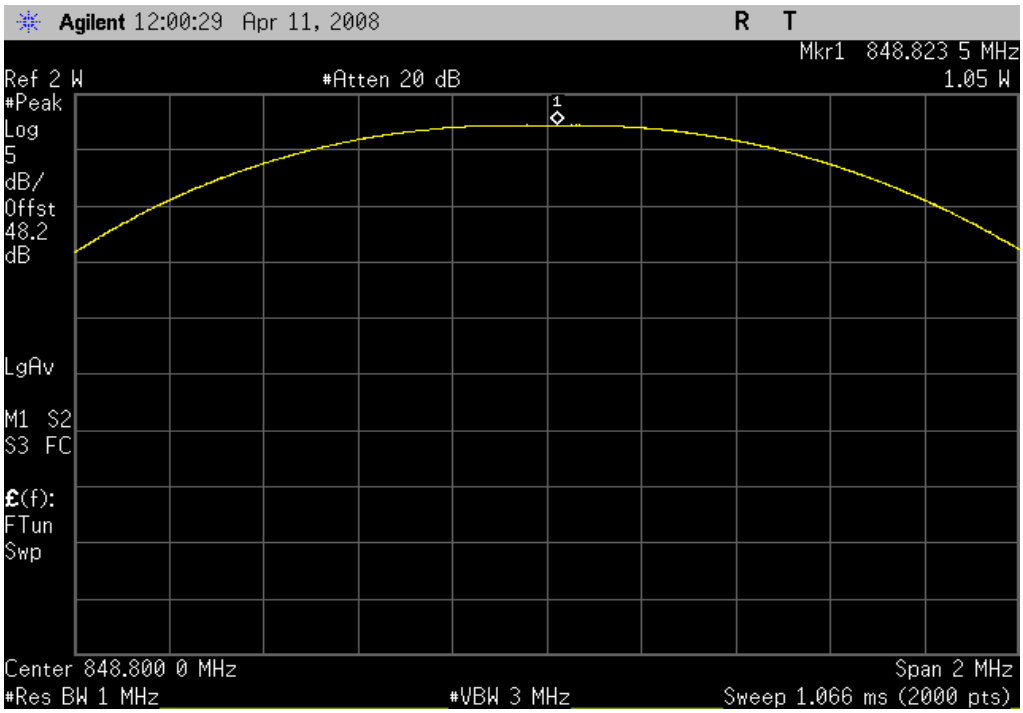


PEAK OUTPUT POWER

GPRS, Mid Channel					
Result:	Pass	**Value:**	0.981 W	**Limit:**	7 W

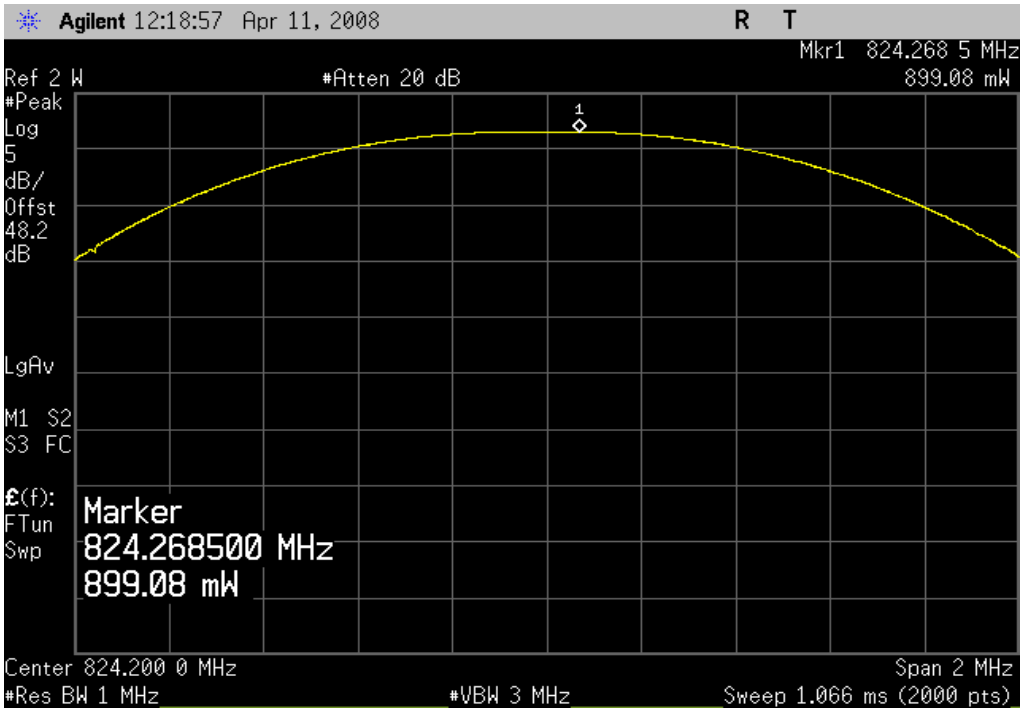


GPRS, High Channel					
Result:	Pass	**Value:**	1.050 W	**Limit:**	7 W

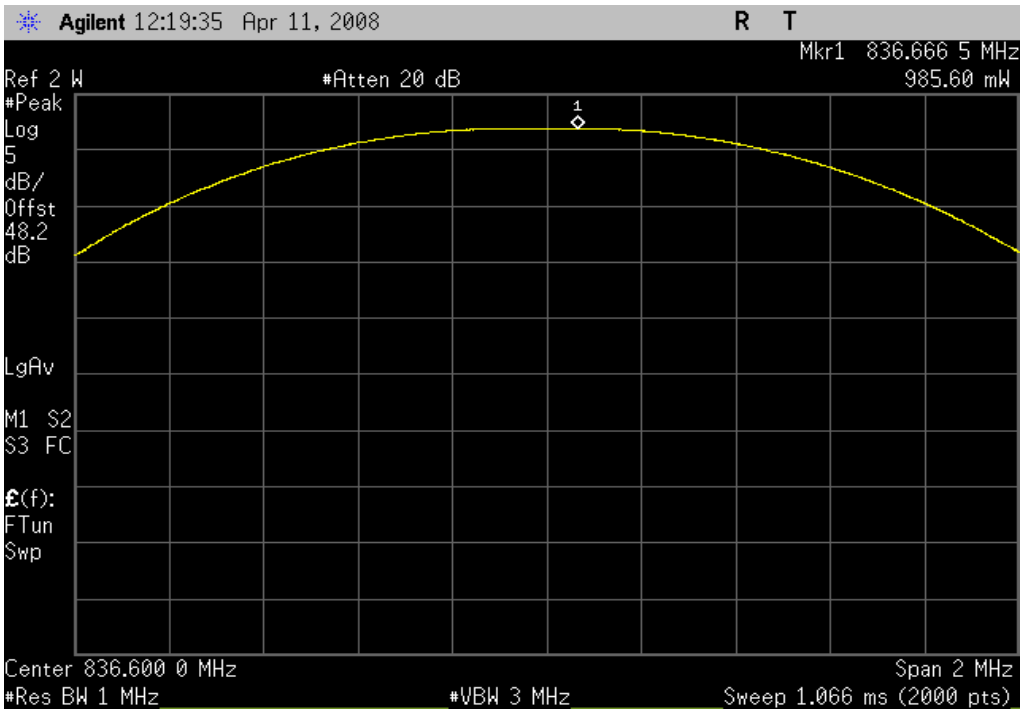


PEAK OUTPUT POWER

EDGE, Low Channel					
Result:	Pass	**Value:**	0.899 W	**Limit:**	7 W

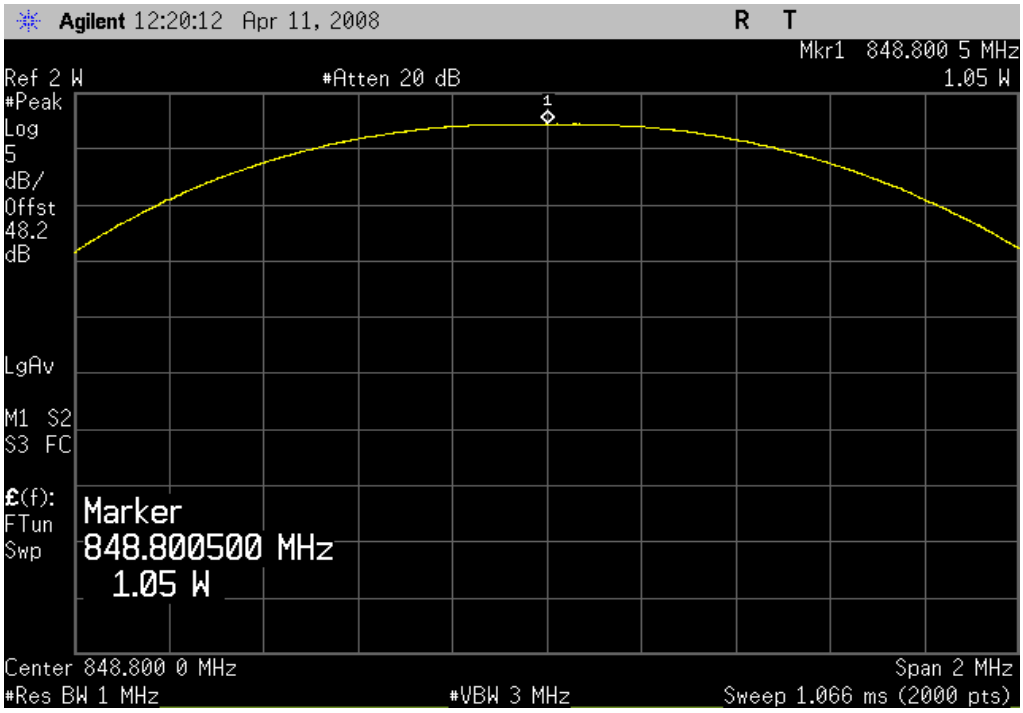


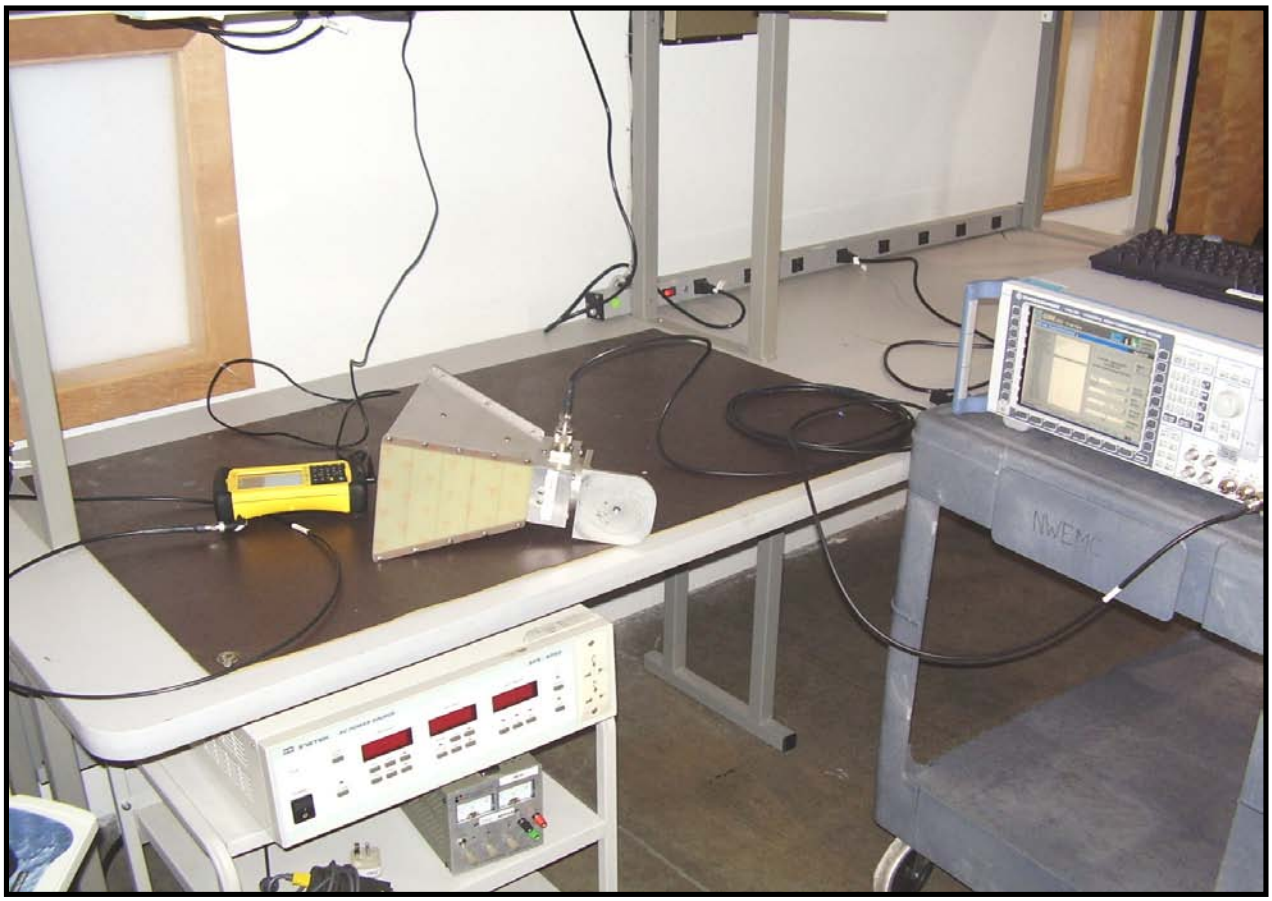
EDGE, Mid Channel					
Result:	Pass	**Value:**	.0986 W	**Limit:**	7 W

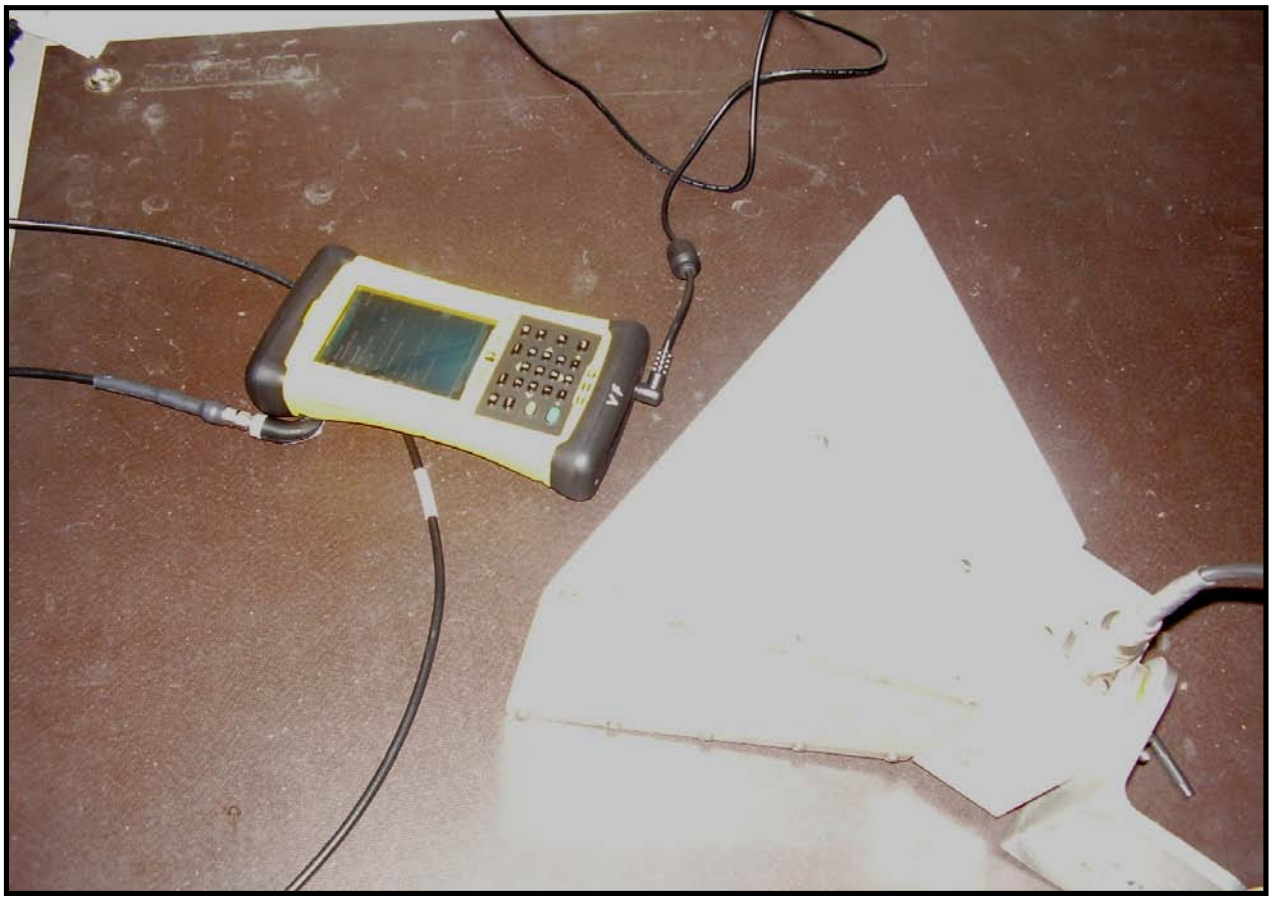


PEAK OUTPUT POWER

EDGE, High Channel					
Result:	Pass	**Value:**	1.050 W	**Limit:**	7 W




NWEMC



PEAK OUTPUT POWER

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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Weinschel Corp.	54A-30	RBM	NCR	0
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/8/2007	13
Spectrum Analyzer	Agilent	E4446A	AAY	12/18/2007	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

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

PEAK OUTPUT POWER

EUT:	Siemens MC75 installed in TDS Nomad			Work Order:	TRPO0040
Serial Number:	None			Date:	04/10/08
Customer:	Tripod Data Systems, Inc.			Temperature:	22°C
Attendees:	None			Humidity:	31%
Project:	None			Barometric Pres.:	1019.1
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

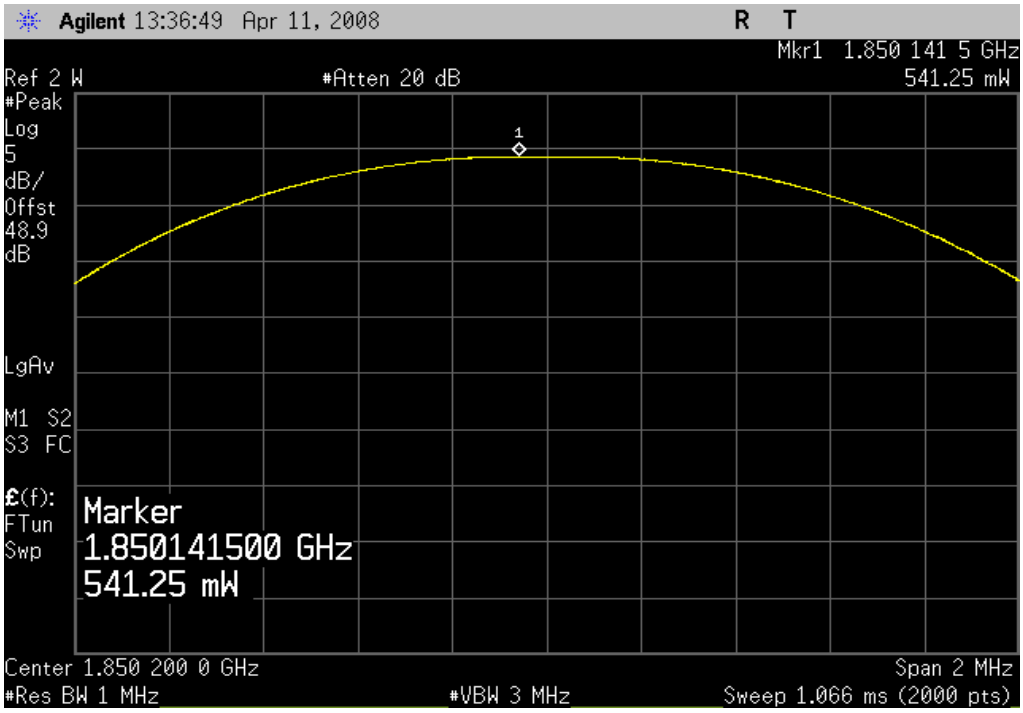
No deviations

Configuration #	2	Signature

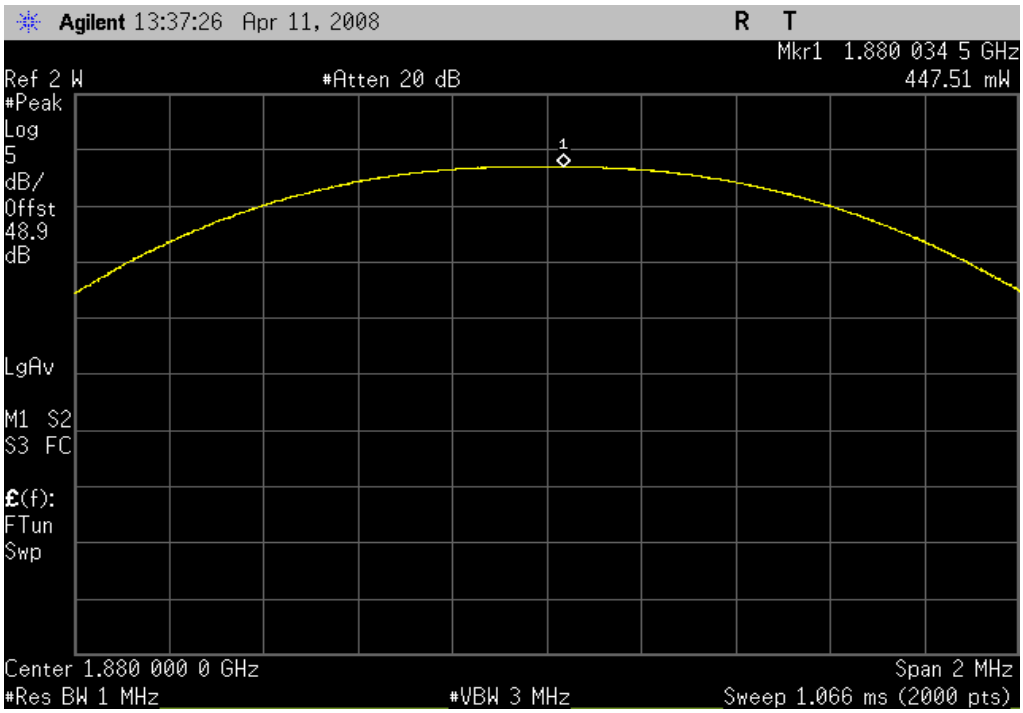
		Value	Value	Limit	Results
GSM					
	Low Channel	27.33 dBm	0.541 W	2 W	Pass
	Mid Channel	26.51 dBm	0.448 W	2 W	Pass
	High Channel	25.65 dBm	0.367 W	2 W	Pass
GPRS					
	Low Channel	27.30 dBm	0.537 W	2 W	Pass
	Mid Channel	26.55 dBm	0.452 W	2 W	Pass
	High Channel	25.71 dBm	0.372 W	2 W	Pass
EDGE					
	Low Channel	27.28 dBm	0.534 W	2 W	Pass
	Mid Channel	26.54 dBm	0.451 W	2 W	Pass
	High Channel	25.73 dBm	0.374 W	2 W	Pass

PEAK OUTPUT POWER

GSM, Low Channel					
Result:	Pass	**Value:**	0.541 W	**Limit:**	2 W

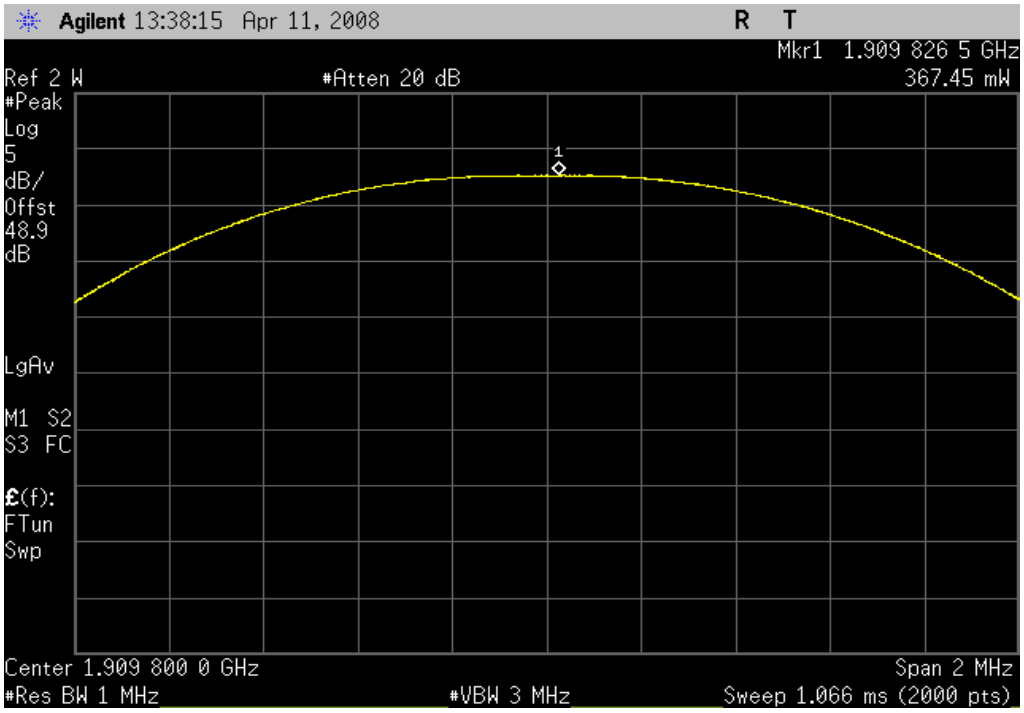


GSM, Mid Channel					
Result:	Pass	**Value:**	0.448 W	**Limit:**	2 W

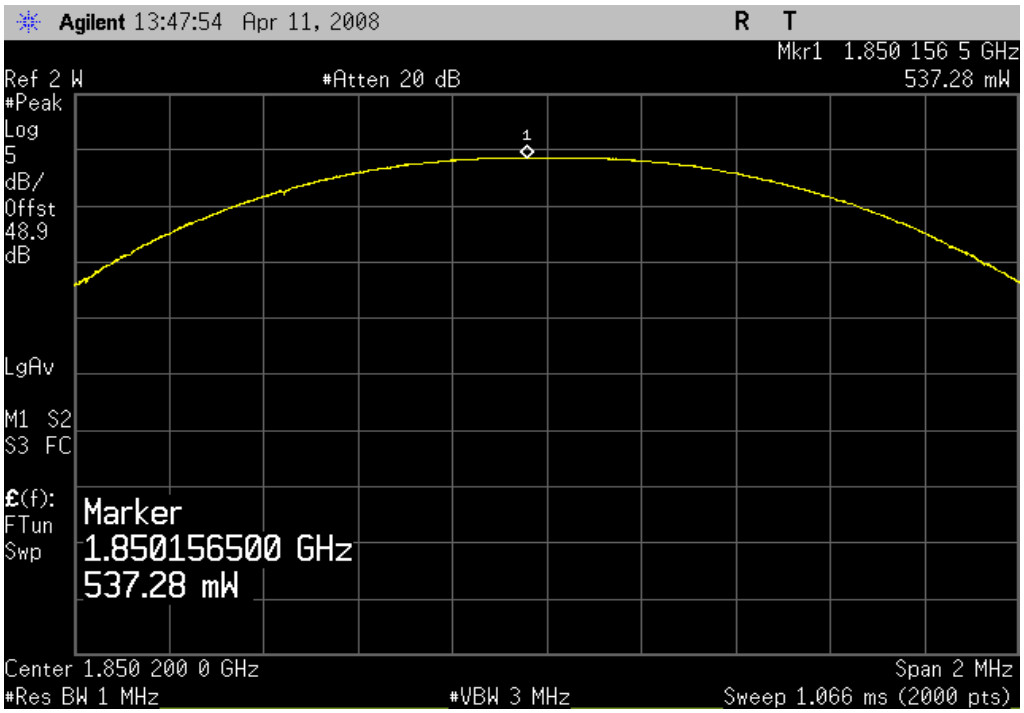


PEAK OUTPUT POWER

GSM, High Channel					
Result:	Pass	**Value:**	0.367 W	**Limit:**	2 W

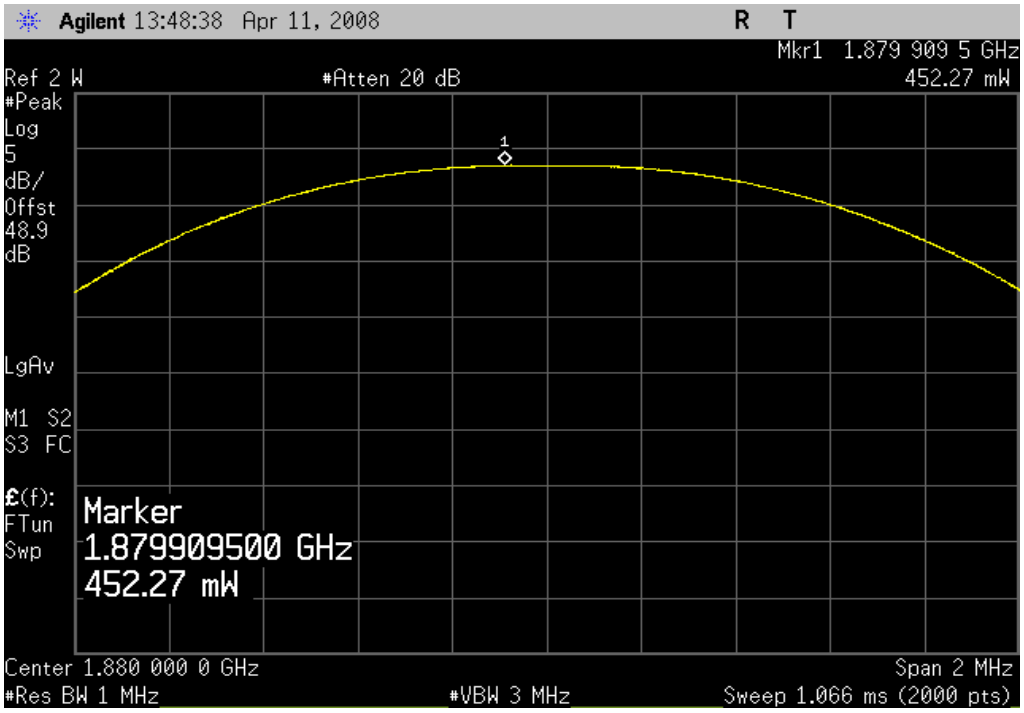


GPRS, Low Channel					
Result:	Pass	**Value:**	0.537 W	**Limit:**	2 W

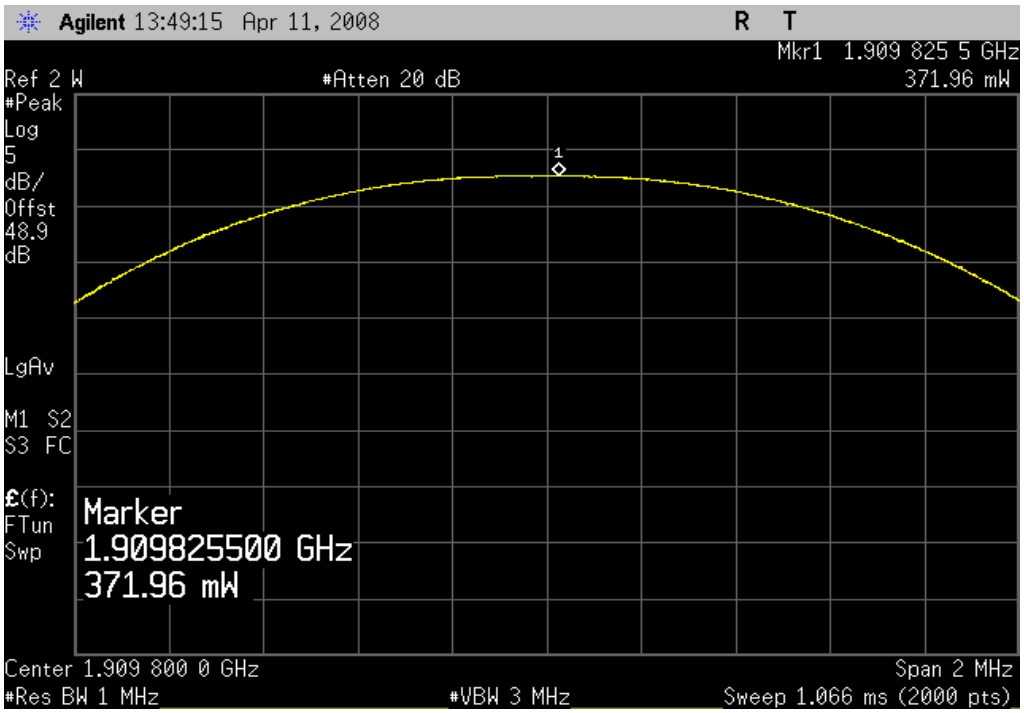


PEAK OUTPUT POWER

GPRS, Mid Channel					
Result:	Pass	**Value:**	0.452 W	**Limit:**	2 W

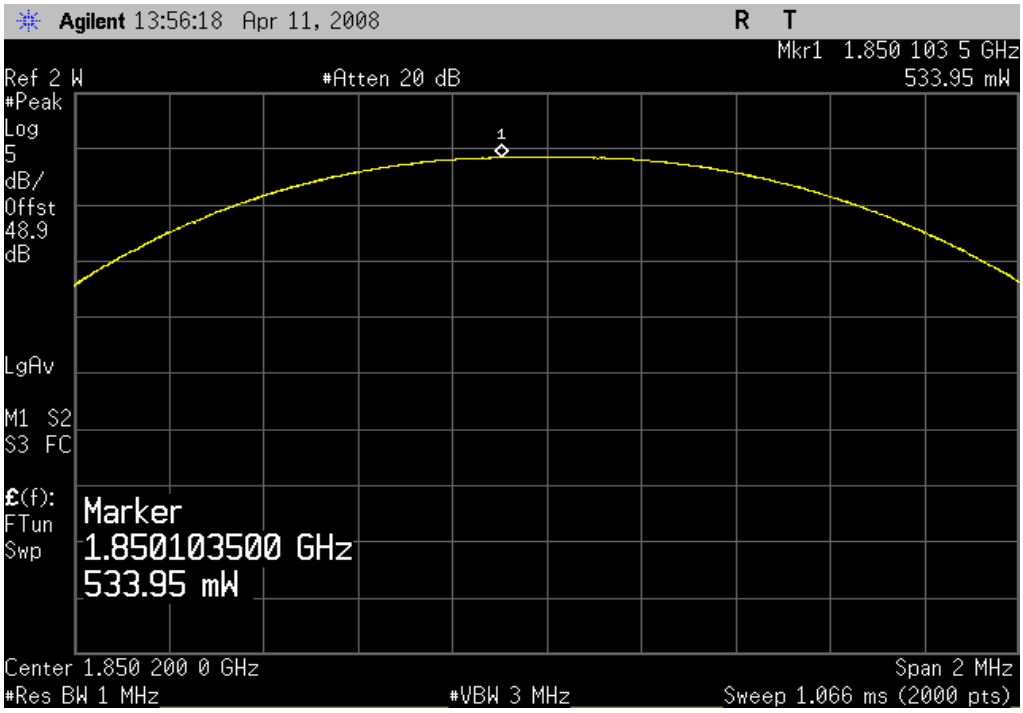


GPRS, High Channel					
Result:	Pass	**Value:**	0.372 W	**Limit:**	2 W

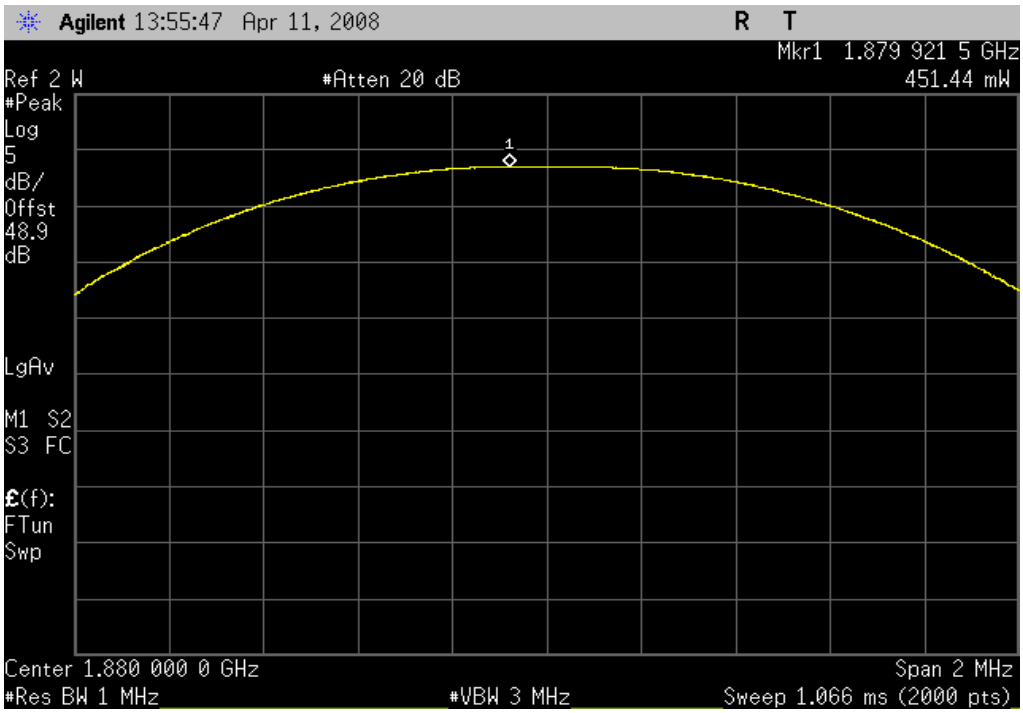


PEAK OUTPUT POWER

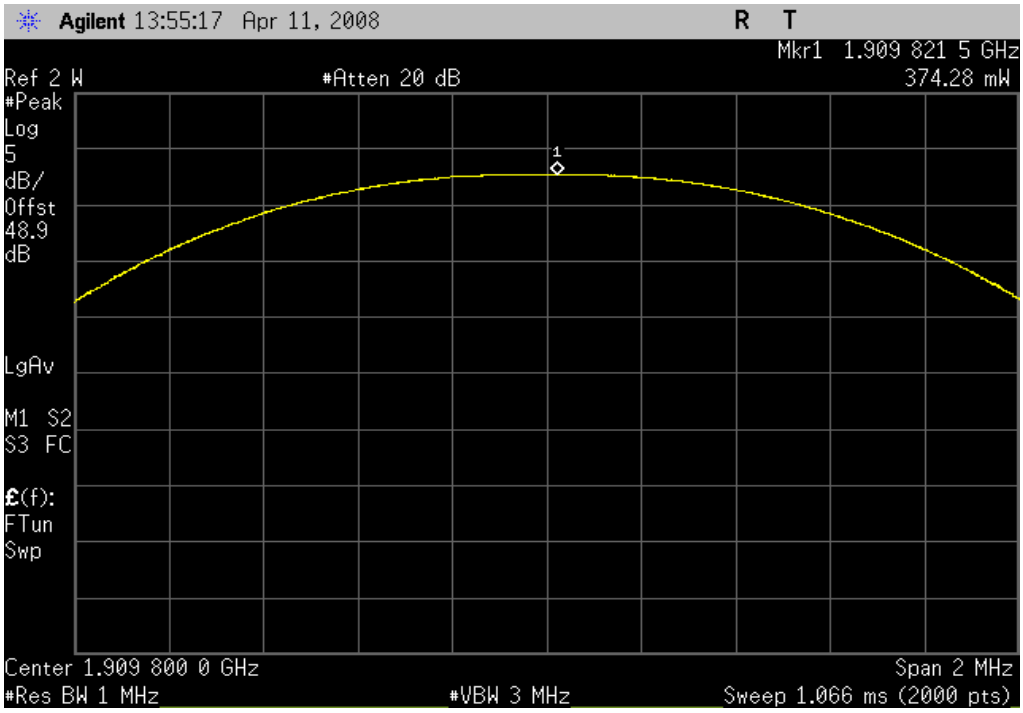
EDGE, Low Channel					
Result:	Pass	**Value:**	0.534 W	**Limit:**	2 W

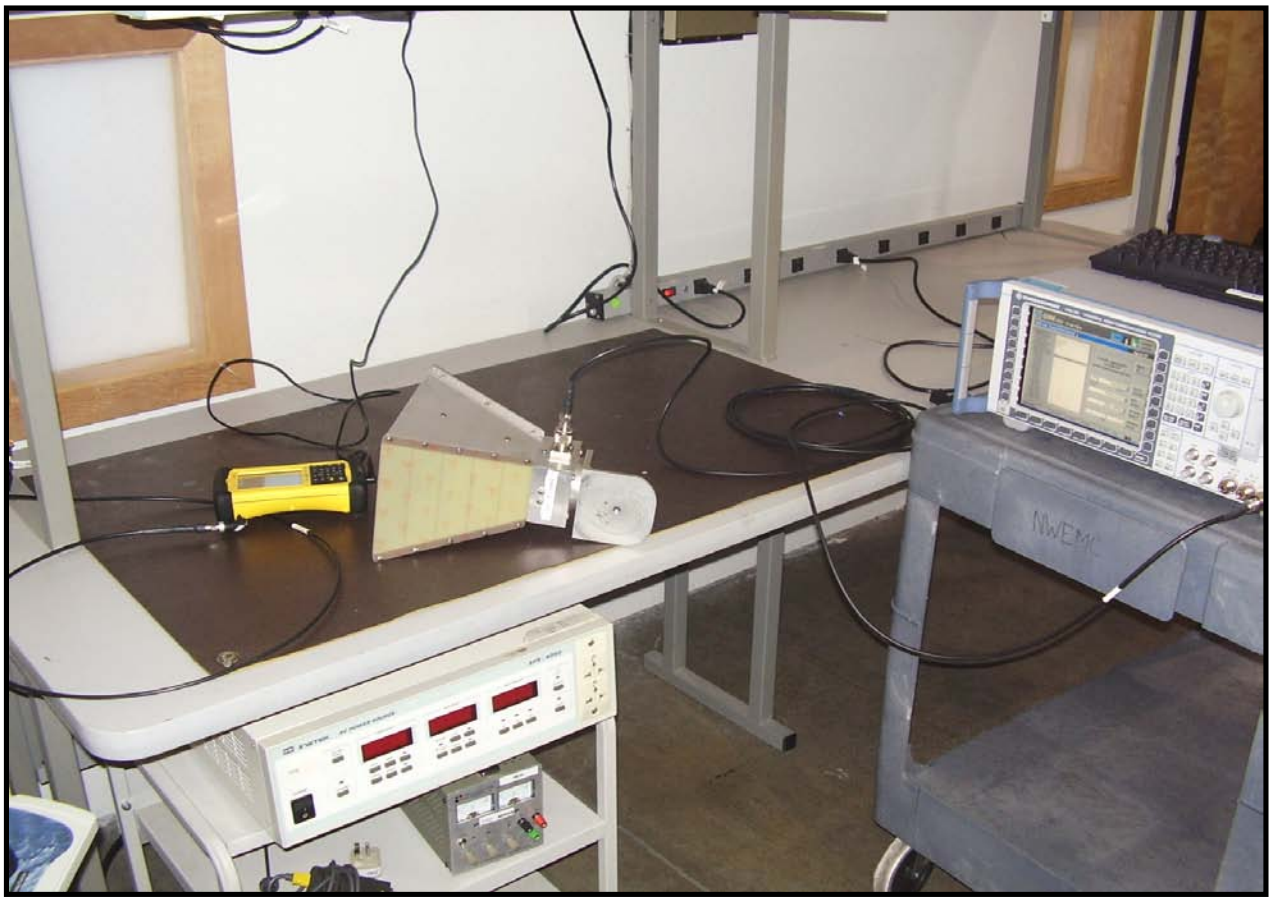


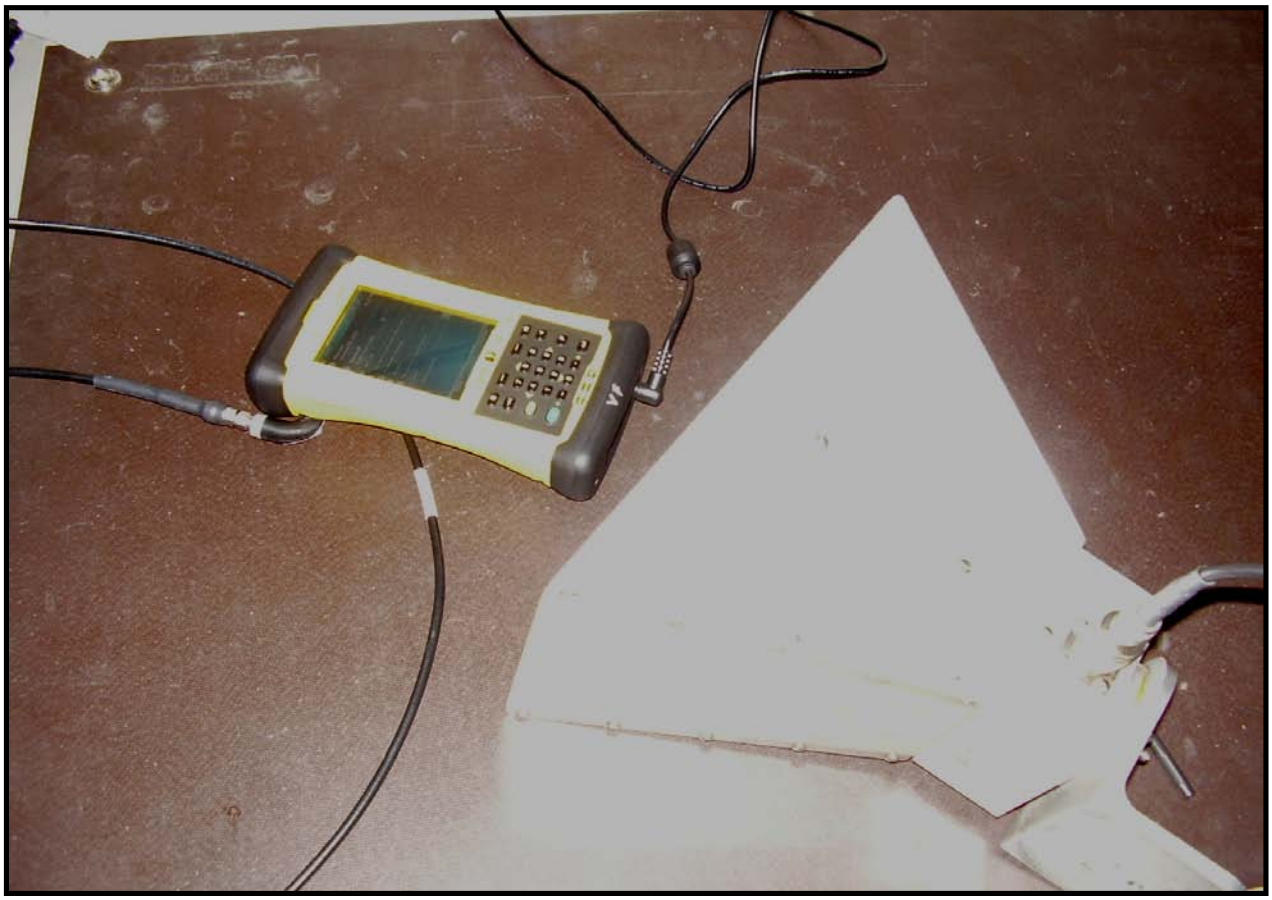
EDGE, Mid Channel					
Result:	Pass	**Value:**	0.451 W	**Limit:**	2 W



EDGE, High Channel					
Result:	Pass	**Value:**	0.374 W	**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 tes 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, Circuit Switched
GPRS, Packet Data, Test mode A, CS4
E-GPRS (EDGE), Packet Data, Test mode B, MCS9

BANDS INVESTIGATED
Cellular

CHANNELS INVESTIGATED
Cellular, Low channel, Ch. 128, 824.2 MHz
Cellular, Mid channel, Ch. 190, 836.6 MHz
Cellular, High channel, Ch.251, 848.8 MHz

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
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Antenna, Horn	ETS	3115	AHW	NCR	0
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	16
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
.5-1 GHz Notch Filter	K&L Microwave	3TNF-500/1000-N/N	HFT	8/29/2006	24
High Pass Filter	TTE	H647-100k-50-718B	HFB	2/11/2008	13
Low Pass Filter 0-425 MHz	Micro-Tronics	LPM50003	LFB	1/1/2007	17
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Antenna, Dipole (part of ADA)	ETS	3121C-DB4	ADAA	NCR	0
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	NCR	0
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Signal Generator	Agilent	E8257D	TGX	12/7/2007	13
Power Meter	Gigatronics	8651A	SPM	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 correc 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:	Siemens MC75 installed in TDS Nomad	**Work Order:**	TRPO0040
Serial Number:	None	**Date:**	04/24/08
Customer:	Tripod Data Systems, Inc.	**Temperature:**	23
Attendees:	None	**Humidity:**	24%
Project:	None	**Barometric Pres.:**	1018.5
Tested by:	David Divergigelis	**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

None

EUT OPERATING MODES

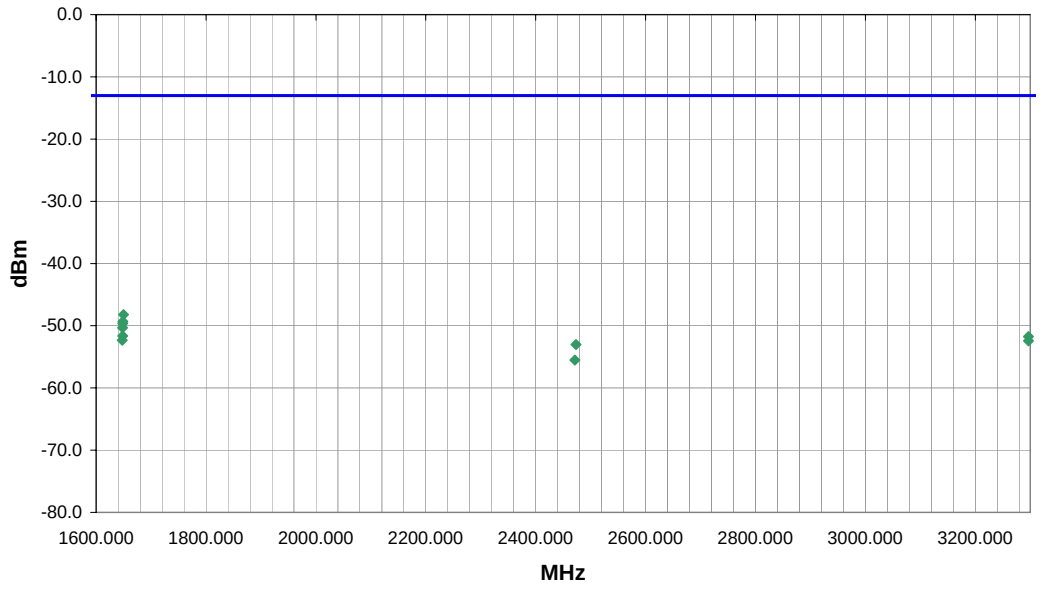
Transmitting GSM, low channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	21
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1649.769			248.0	1.2			V-Horn	PK	1.50E-08	-48.2	-13.0	-35.2	EUT Horizontal
1648.647			303.0	1.5			H-Horn	PK	1.17E-08	-49.3	-13.0	-36.3	EUT Vertical
1648.481			60.0	1.2			V-Horn	PK	1.09E-08	-49.6	-13.0	-36.6	EUT Vertical
1648.177			357.0	1.1			V-Horn	PK	9.27E-09	-50.3	-13.0	-37.3	EUT on side
1648.376			343.0	1.5			H-Horn	PK	6.87E-09	-51.6	-13.0	-38.6	EUT on side
3296.932			147.0	1.2			H-Horn	PK	6.72E-09	-51.7	-13.0	-38.7	EUT Horizontal
1647.340			143.0	1.5			H-Horn	PK	5.85E-09	-52.3	-13.0	-39.3	EUT Horizontal
3296.829			142.0	2.6			V-Horn	PK	5.72E-09	-52.4	-13.0	-39.4	EUT on side
2473.309			5.0	1.2			H-Horn	PK	4.98E-09	-53.0	-13.0	-40.0	EUT Horizontal
2471.358			298.0	1.2			V-Horn	PK	2.80E-09	-55.5	-13.0	-42.5	EUT on side

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	**Work Order:**	TRPO0040
Serial Number:	None	**Date:**	04/24/08
Customer:	Tripod Data Systems, Inc.	**Temperature:**	23
Attendees:	None	**Humidity:**	24%
Project:	None	**Barometric Pres.:**	1018.5
Tested by:	David Divergigelis	**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

None

EUT OPERATING MODES

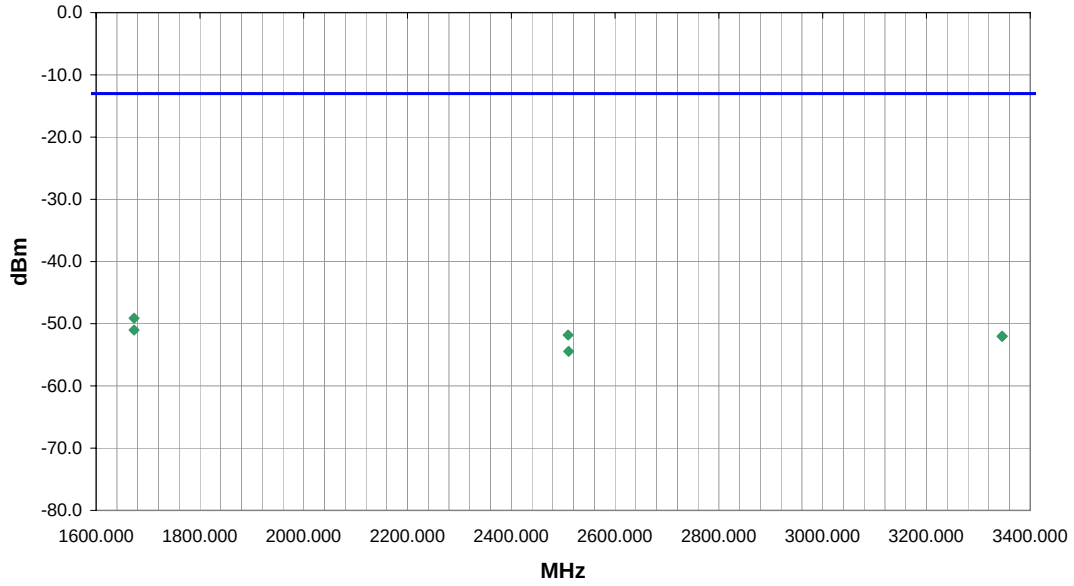
Transmitting GSM, mid channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	22
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1673.116			282.0	1.2			V-Horn	PK	1.22E-08	-49.1	-13.0	-36.1	EUT on side
1673.024			177.0	1.7			H-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT Horizontal
2509.528			13.0	1.2			H-Horn	PK	6.56E-09	-51.8	-13.0	-38.8	EUT Horizontal
3345.882			303.0	1.2			H-Horn	PK	6.27E-09	-52.0	-13.0	-39.0	EUT Horizontal
3345.938			7.0	2.3			V-Horn	PK	6.27E-09	-52.0	-13.0	-39.0	EUT on side
2510.356			351.0	1.2			V-Horn	PK	3.61E-09	-54.4	-13.0	-41.4	EUT on side

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/24/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	David Divergigelis	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

None

EUT OPERATING MODES

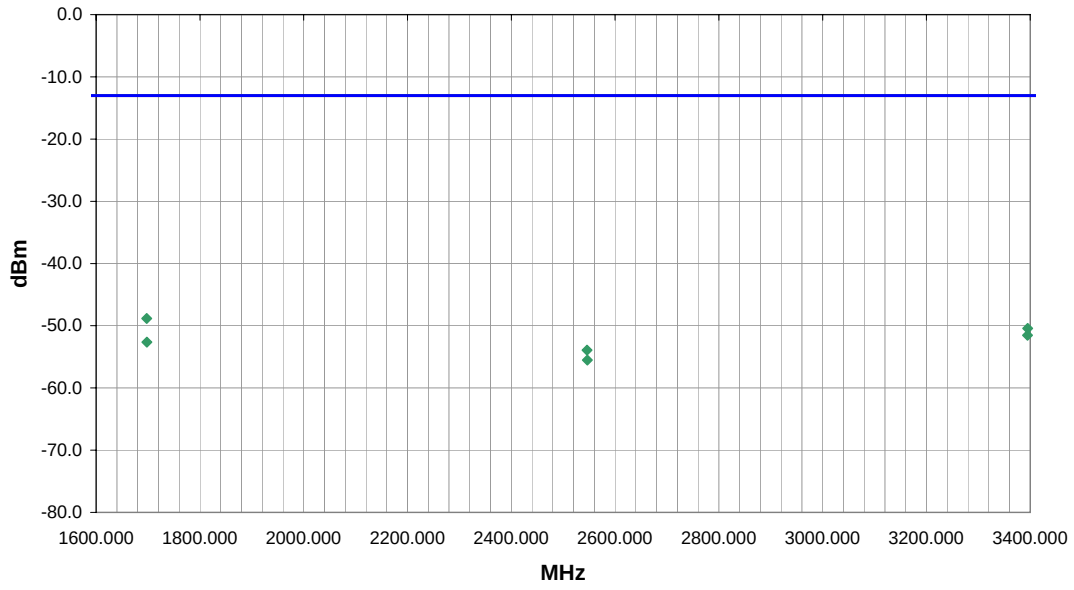
Transmitting GSM, high channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	23
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1697.478			268.0	1.1			V-Horn	PK	1.31E-08	-48.8	-13.0	-35.8	EUT on side
3395.014			250.0	1.0			V-Horn	PK	9.06E-09	-50.4	-13.0	-37.4	EUT on side
3394.830			42.0	1.3			H-Horn	PK	7.03E-09	-51.5	-13.0	-38.5	EUT Horizontal
1697.608			151.0	1.3			H-Horn	PK	5.46E-09	-52.6	-13.0	-39.6	EUT Horizontal
2545.942			245.0	1.1			V-Horn	PK	4.05E-09	-53.9	-13.0	-40.9	EUT on side
2546.696			188.0	2.2			H-Horn	PK	2.80E-09	-55.5	-13.0	-42.5	EUT Horizontal

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/24/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	David Divergigelis	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

None

EUT OPERATING MODES

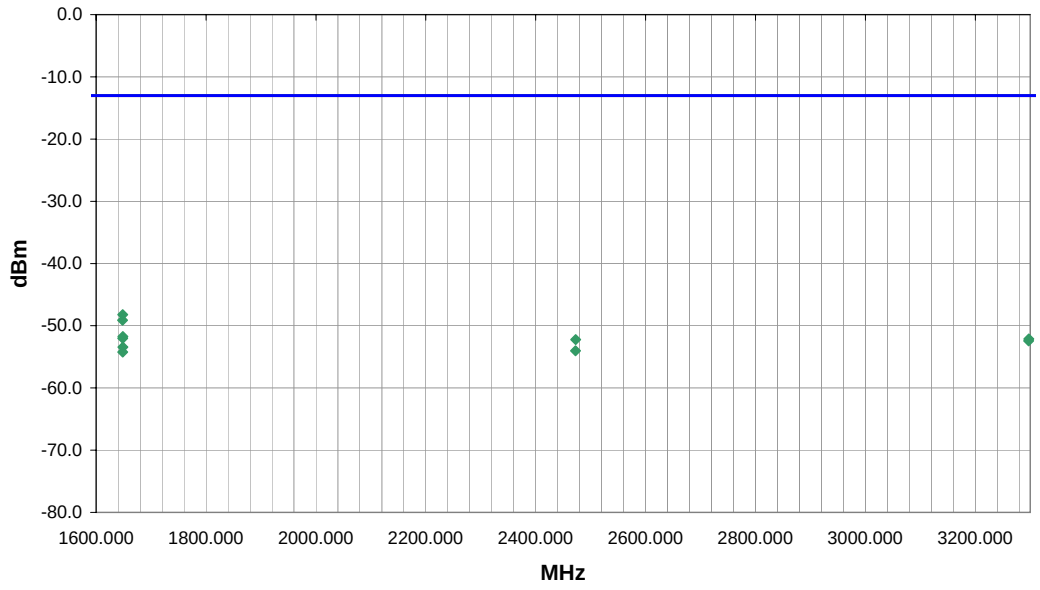
Transmitting GPRS, low channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	24
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1648.278			250.0	1.1			V-Horn	PK	1.50E-08	-48.2	-13.0	-35.2	EUT Horizontal
1648.164			198.0	1.2			H-Horn	PK	1.22E-08	-49.1	-13.0	-36.1	EUT on side
1648.729			55.0	1.3			H-Horn	PK	6.72E-09	-51.7	-13.0	-38.7	EUT Vertical
1648.374			309.0	1.3			V-Horn	PK	6.27E-09	-52.0	-13.0	-39.0	EUT on side
3297.350			143.0	1.2			H-Horn	PK	6.13E-09	-52.1	-13.0	-39.1	EUT Horizontal
2472.673			101.0	1.2			H-Horn	PK	5.99E-09	-52.2	-13.0	-39.2	EUT Horizontal
3297.036			74.0	1.1			V-Horn	PK	5.72E-09	-52.4	-13.0	-39.4	EUT Vertical
1648.564			322.0	1.2			H-Horn	PK	4.54E-09	-53.4	-13.0	-40.4	EUT Horizontal
2472.444			94.0	1.1			V-Horn	PK	3.95E-09	-54.0	-13.0	-41.0	EUT Vertical
1648.449			360.0	1.3			V-Horn	PK	3.78E-09	-54.2	-13.0	-41.2	EUT Vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	**Work Order:**	TRPO0040
Serial Number:	None	**Date:**	04/24/08
Customer:	Tripod Data Systems, Inc.	**Temperature:**	23
Attendees:	None	**Humidity:**	24%
Project:	None	**Barometric Pres.:**	1018.5
Tested by:	David Divergigelis	**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

None

EUT OPERATING MODES

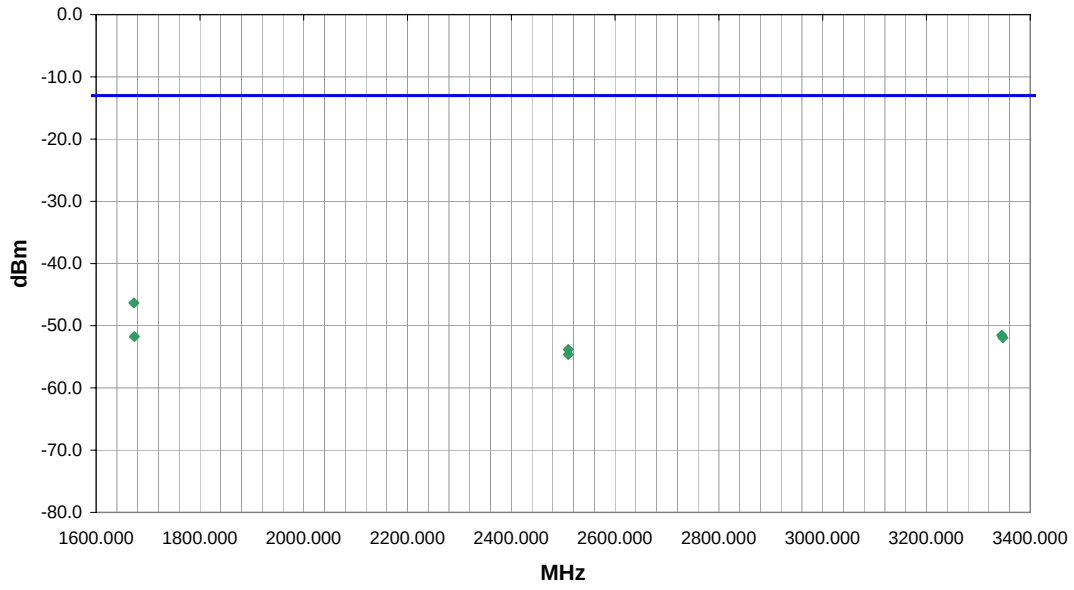
Transmitting GPRS, mid channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1672.899			29.0	1.1			V-Horn	PK	2.33E-08	-46.3	-13.0	-33.3	EUT Vertical
3345.077			252.0	1.1			V-Horn	PK	7.03E-09	-51.5	-13.0	-38.5	EUT Vertical
1673.616			275.0	1.2			H-Horn	PK	6.72E-09	-51.7	-13.0	-38.7	EUT Horizontal
3347.170			295.0	1.2			H-Horn	PK	6.41E-09	-51.9	-13.0	-38.9	EUT Horizontal
2509.800			25.0	1.2			H-Horn	PK	4.14E-09	-53.8	-13.0	-40.8	EUT Horizontal
2509.947			128.0	1.1			V-Horn	PK	3.44E-09	-54.6	-13.0	-41.6	EUT Vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/24/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	David Divergigelis	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

None

EUT OPERATING MODES

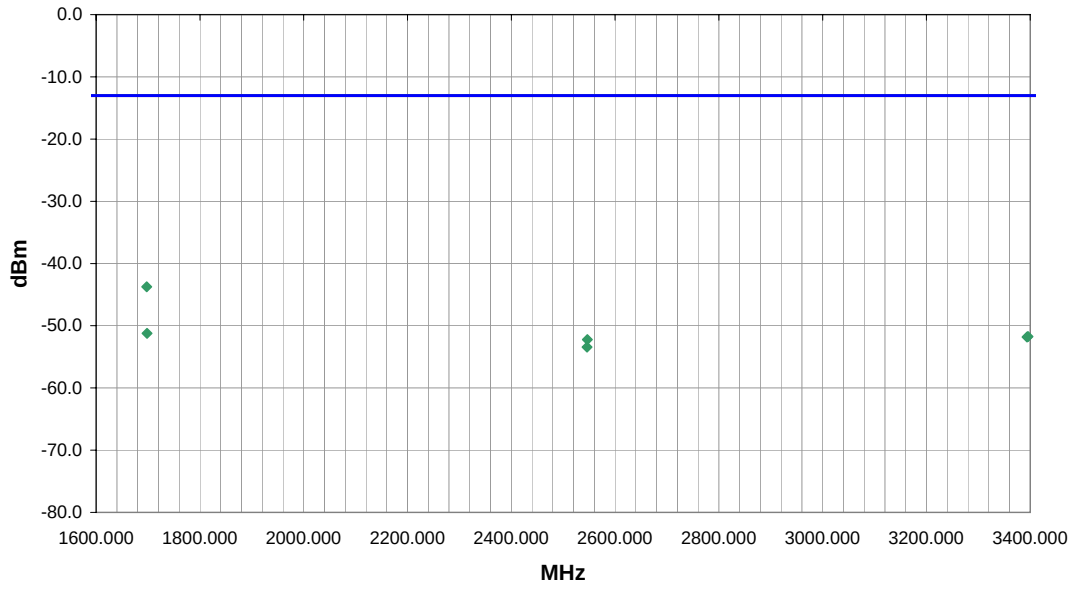
Transmitting GPRS, high channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	26
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
1697.484			37.0	1.1			V-Horn	PK	4.24E-08	-43.7	-13.0	-30.7	EUT Vertical
1697.998			275.0	1.2			H-Horn	PK	7.54E-09	-51.2	-13.0	-38.2	EUT Horizontal
3395.750			194.0	2.8			V-Horn	PK	6.72E-09	-51.7	-13.0	-38.7	EUT Vertical
3393.683			159.0	1.2			H-Horn	PK	6.56E-09	-51.8	-13.0	-38.8	EUT Horizontal
2546.622			95.0	1.2			H-Horn	PK	5.99E-09	-52.2	-13.0	-39.2	EUT Horizontal
2545.969			91.0	1.1			V-Horn	PK	4.54E-09	-53.4	-13.0	-40.4	EUT Vertical

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/25/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
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

None

EUT OPERATING MODES

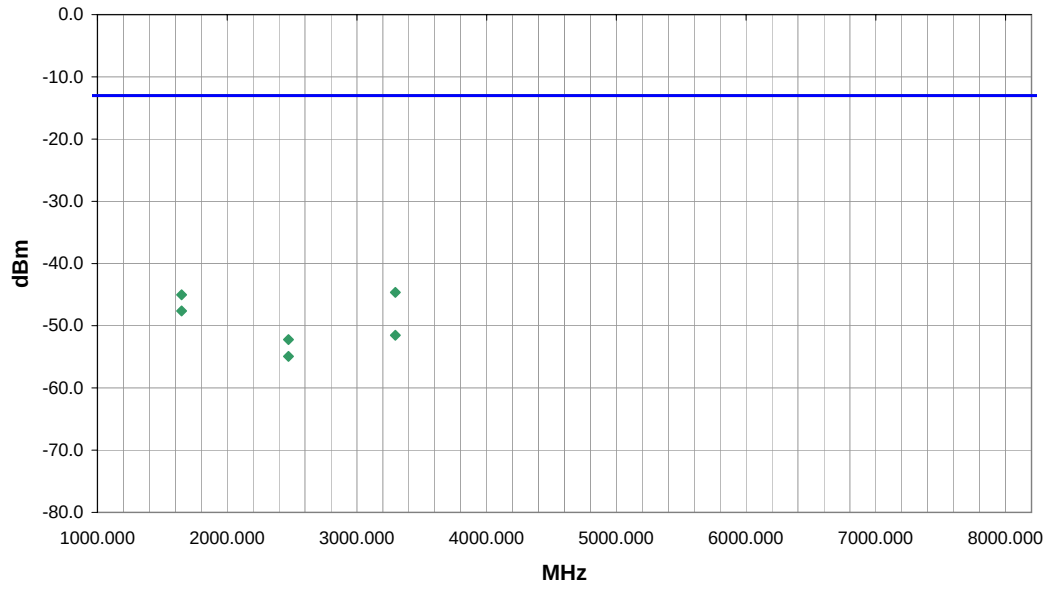
Transmitting EDGE, low channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	27
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3296.380			250.0	1.4			H-Horn	PK	3.44E-08	-44.6	-13.0	-31.6	EUT on side
1648.368			168.0	1.1			V-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	EUT horizontal
1648.392			279.0	1.4			H-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT on side
3296.597			348.0	1.2			V-Horn	PK	7.03E-09	-51.5	-13.0	-38.5	EUT horizontal
2472.572			255.0	1.2			H-Horn	PK	5.99E-09	-52.2	-13.0	-39.2	EUT on side
2472.472			83.0	1.3			V-Horn	PK	3.21E-09	-54.9	-13.0	-41.9	EUT horizontal

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/25/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
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

None

EUT OPERATING MODES

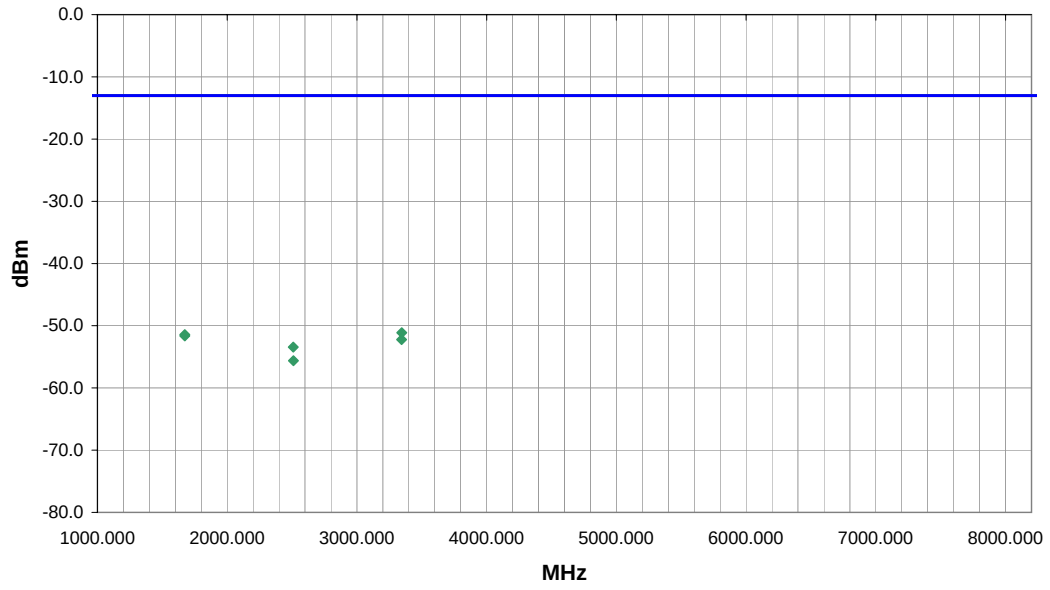
Transmitting EDGE, mid channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	28
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3345.975			167.0	1.8			V-Horn	PK	7.71E-09	-51.1	-13.0	-38.1	EUT horizontal
1673.254			190.0	1.0			V-Horn	PK	7.20E-09	-51.4	-13.0	-38.4	EUT horizontal
1673.322			205.0	1.3			H-Horn	PK	6.87E-09	-51.6	-13.0	-38.6	EUT on side
3344.812			331.0	1.2			H-Horn	PK	5.99E-09	-52.2	-13.0	-39.2	EUT on side
2509.862			345.0	1.2			H-Horn	PK	4.54E-09	-53.4	-13.0	-40.4	EUT on side
2510.338			14.0	1.1			V-Horn	PK	2.74E-09	-55.6	-13.0	-42.6	EUT horizontal

NORTHWEST EMC

OUT OF BAND EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/28/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
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

None

EUT OPERATING MODES

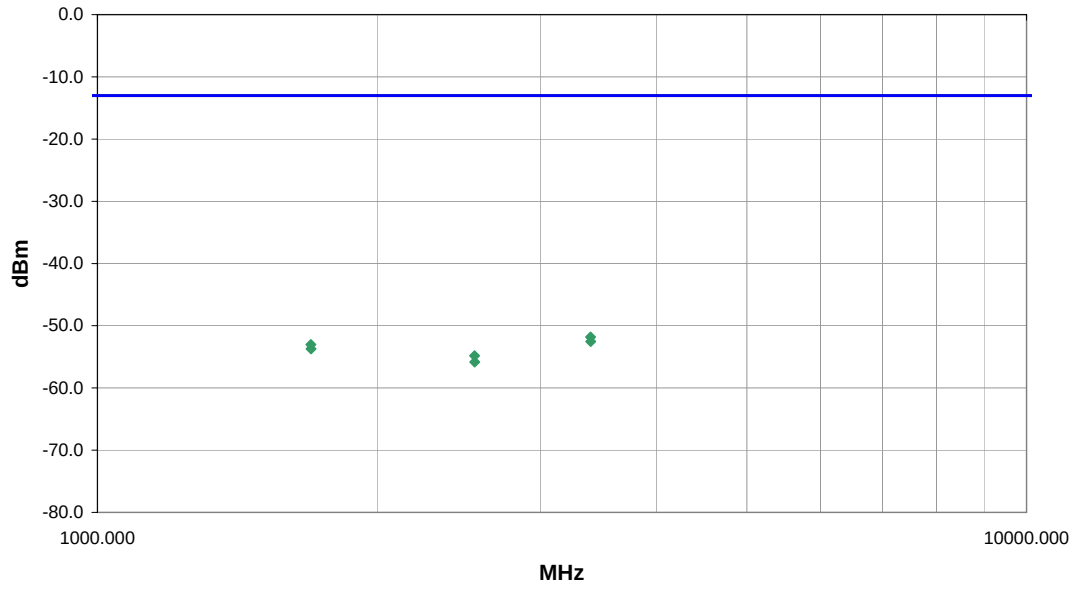
Transmitting EDGE, high channel, Cell band

DEVIATIONS FROM TEST STANDARD

No deviations.

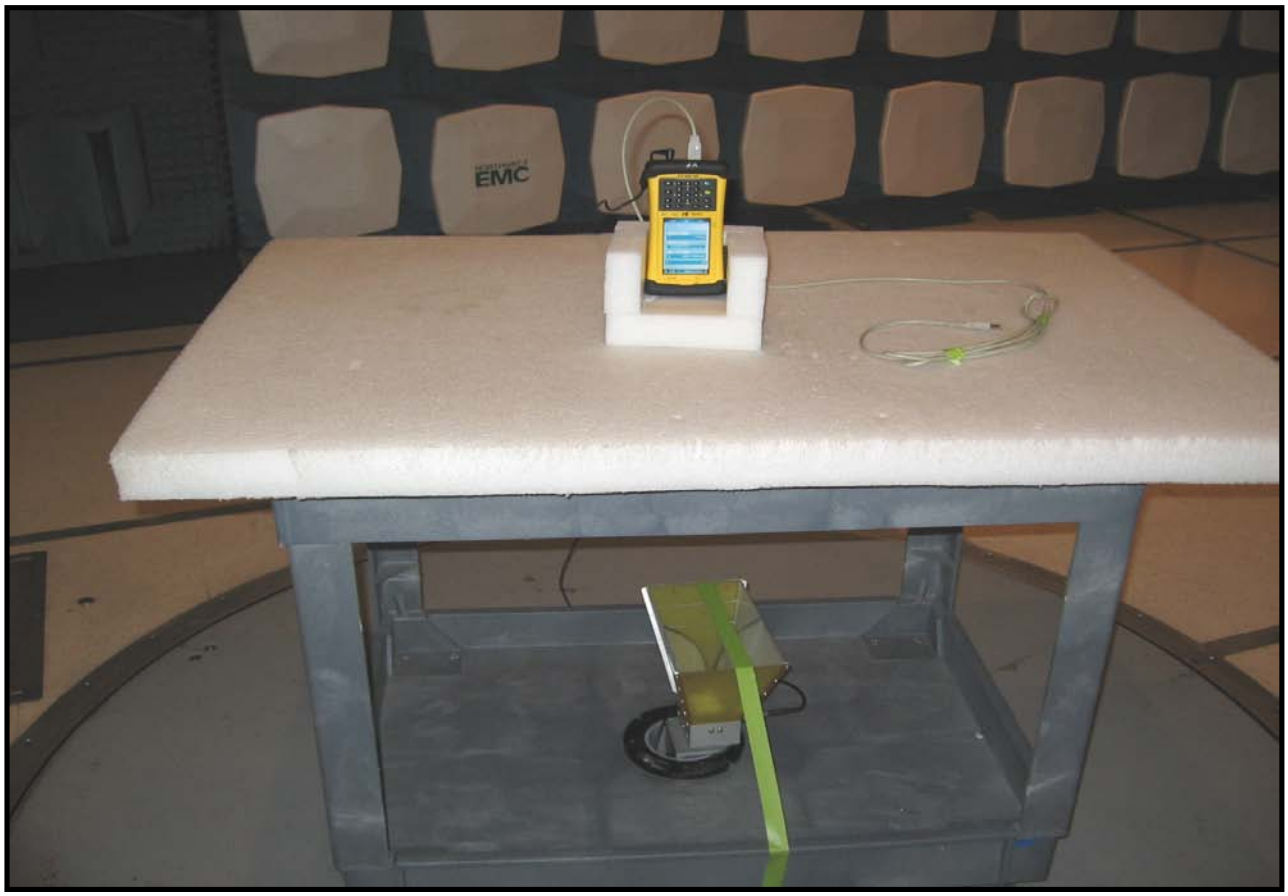
Run #	29
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
3394.724			257.0	1.2			V-Horn	PK	6.56E-09	-51.8	-13.0	-38.8	EUT horizontal
3395.390			152.0	1.3			H-Horn	PK	5.59E-09	-52.5	-13.0	-39.5	EUT on side
1697.473			9.0	1.2			H-Horn	PK	4.98E-09	-53.0	-13.0	-40.0	EUT on side
1697.854			26.0	1.1			V-Horn	PK	4.24E-09	-53.7	-13.0	-40.7	EUT horizontal
2546.443			277.0	1.2			H-Horn	PK	3.29E-09	-54.8	-13.0	-41.8	EUT on side
2546.751			61.0	1.1			V-Horn	PK	2.61E-09	-55.8	-13.0	-42.8	EUT horizontal

OUT OF BAND EMISSIONS



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
GSM, Circuit Switched
GPRS, Packet Data, Test mode A, CS4
E-GPRS (EDGE), Packet Data, Test mode B, MCS9

BANDS INVESTIGATED
PCS

CHANNELS INVESTIGATED
PCS, Low channel, Ch. 512, 1850.2 MHz
PCS, Mid channel, Ch. 661, 1880 MHz
PCS, High channel, Ch. 810, 1909.8 MHz

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	25 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
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Antenna, Horn	ETS	3115	AHW	NCR	0
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	16
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
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
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Antenna, Dipole (part of ADA)	ETS	3121C-DB4	ADAA	NCR	0
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	NCR	0
Antenna, Horn	EMCO	3115	AHJ	5/24/2007	24
Signal Generator	Agilent	E8257D	TGX	12/7/2007	13
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	1/16/2008	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 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/18/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

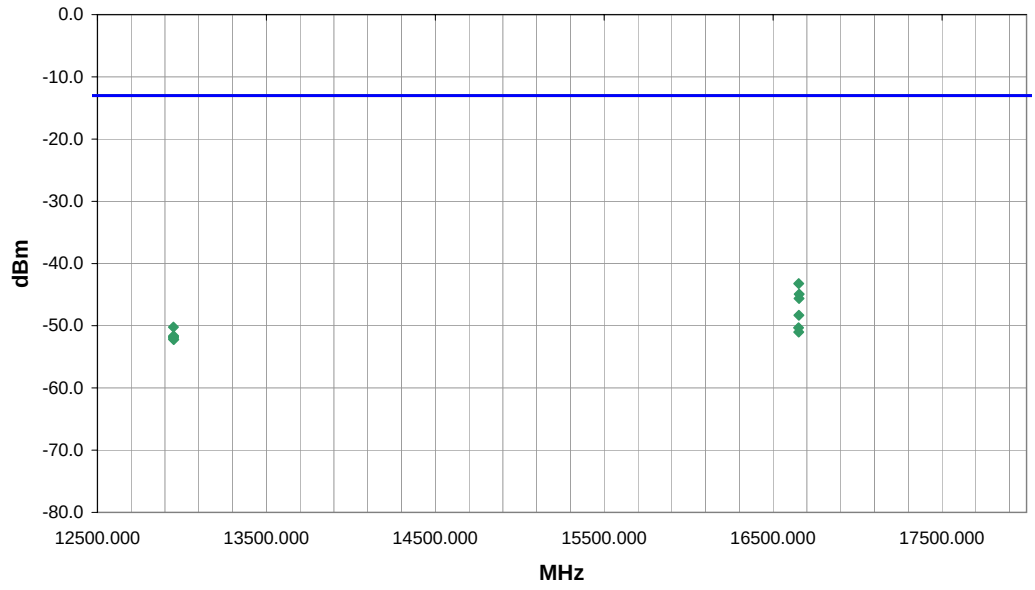
Transmitting GSM, low channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16651.430			90.0	1.0			V-Horn	PK	4.75E-08	-43.2	-13.0	-30.2	EUT on side
16654.440			82.0	1.5			H-Horn	PK	3.21E-08	-44.9	-13.0	-31.9	EUT vertical
16653.570			65.0	1.0			V-Horn	PK	2.74E-08	-45.6	-13.0	-32.6	EUT vertical
16651.880			22.0	1.5			H-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	EUT on side
12949.780			124.0	1.0			H-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	EUT on side
16650.590			175.0	1.0			H-Horn	PK	9.27E-09	-50.3	-13.0	-37.3	EUT horizontal
16651.290			83.0	1.0			V-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT horizontal
12950.660			76.0	1.0			H-Horn	PK	6.87E-09	-51.6	-13.0	-38.6	EUT vertical
12949.470			310.0	1.0			V-Horn	PK	6.56E-09	-51.8	-13.0	-38.8	EUT horizontal
12950.780			29.0	1.0			V-Horn	PK	6.56E-09	-51.8	-13.0	-38.8	EUT vertical
12949.790			28.0	1.0			H-Horn	PK	6.13E-09	-52.1	-13.0	-39.1	EUT horizontal
12951.900			22.0	1.0			V-Horn	PK	5.99E-09	-52.2	-13.0	-39.2	EUT on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/18/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

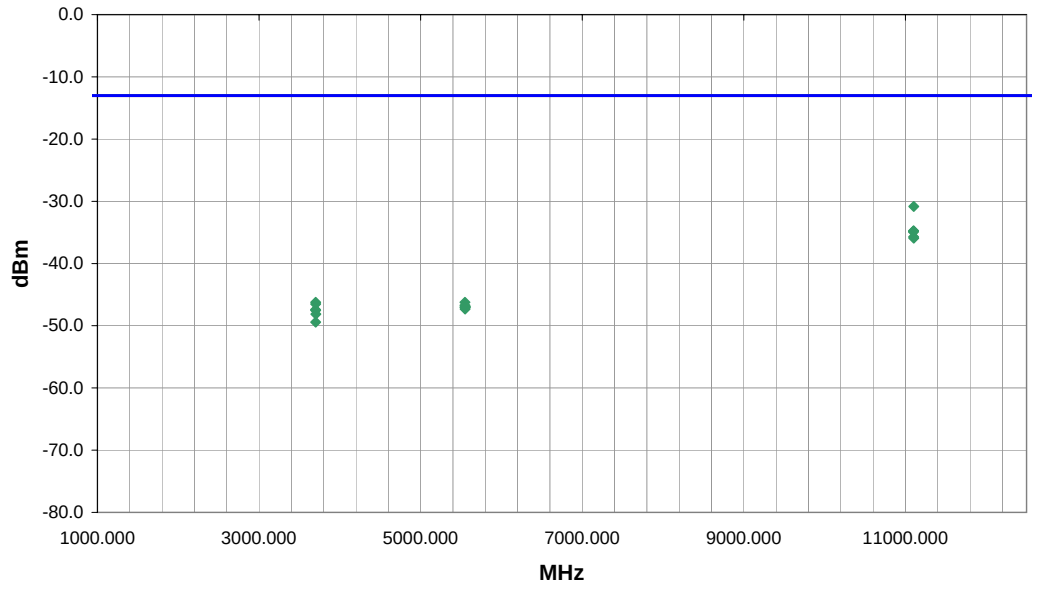
Transmitting GSM, low channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11102.910			88.0	1.0			V-Horn	PK	8.26E-07	-30.8	-13.0	-17.8	EUT Vertical
11101.910			229.0	1.0			V-Horn	PK	3.37E-07	-34.7	-13.0	-21.7	EUT horizontal
11100.000			67.0	1.0			H-Horn	PK	3.29E-07	-34.8	-13.0	-21.8	EUT horizontal
11099.160			35.0	1.0			H-Horn	PK	3.21E-07	-34.9	-13.0	-21.9	EUT on side
11101.130			28.0	1.0			V-Horn	PK	2.67E-07	-35.7	-13.0	-22.7	EUT on side
11103.350			336.0	1.0			H-Horn	PK	2.55E-07	-35.9	-13.0	-22.9	EUT Vertical
3702.158			60.0	1.0			V-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	EUT Vertical
5549.190			351.0	2.8			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	EUT on side
3701.750			117.0	1.0			H-Horn	PK	2.22E-08	-46.5	-13.0	-33.5	EUT on side
5549.107			58.0	2.0			V-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	EUT Vertical
5551.965			201.0	2.0			V-Horn	PK	2.03E-08	-46.9	-13.0	-33.9	EUT horizontal
5549.307			339.0	2.8			H-Horn	PK	1.98E-08	-47.0	-13.0	-34.0	EUT horizontal
5552.398			64.0	2.0			V-Horn	PK	1.98E-08	-47.0	-13.0	-34.0	EUT on side
5550.098			228.0	2.8			H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	EUT Vertical
3698.350			276.0	1.0			H-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	EUT Vertical
3700.367			116.0	1.0			H-Horn	PK	1.77E-08	-47.5	-13.0	-34.5	EUT horizontal
3702.233			9.0	1.0			V-Horn	PK	1.54E-08	-48.1	-13.0	-35.1	EUT on side
3700.767			213.0	1.0			V-Horn	PK	1.14E-08	-49.4	-13.0	-36.4	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/18/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
Tested by:	Holly Ashkannejhad	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

None

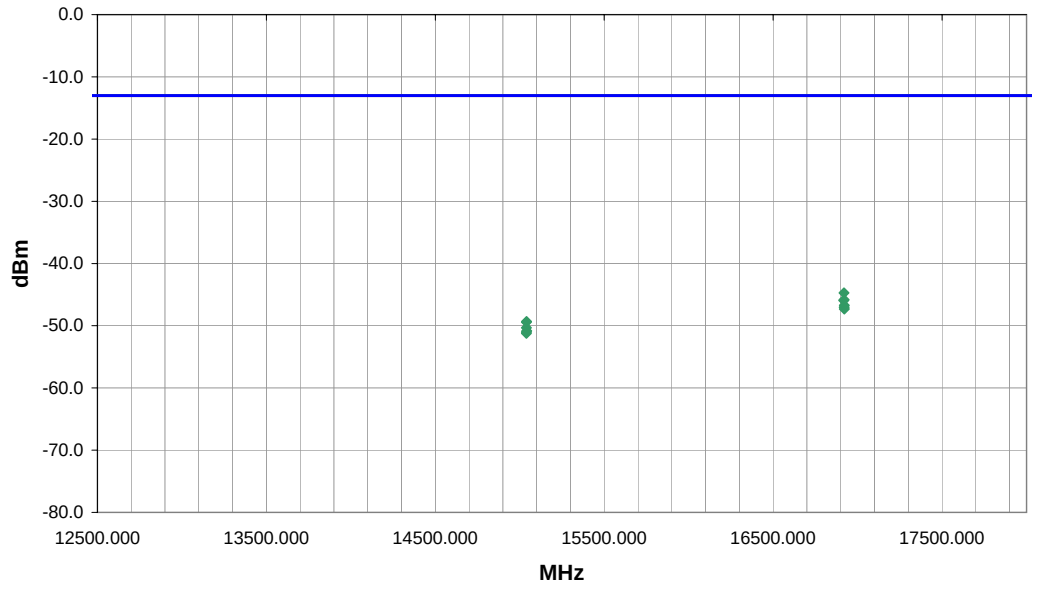
EUT OPERATING MODES

Transmitting GSM, mid channel, PCS band.

DEVIATIONS FROM TEST STANDARD

Run #	5
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16919.260			59.0	1.0			V-Horn	PK	3.37E-08	-44.7	-13.0	-31.7	EUT vertical
16920.040			156.0	1.0			V-Horn	PK	2.61E-08	-45.8	-13.0	-32.8	EUT on side
16917.730			11.0	1.0			H-Horn	PK	2.55E-08	-45.9	-13.0	-32.9	EUT vertical
16921.650			130.0	1.0			H-Horn	PK	2.12E-08	-46.7	-13.0	-33.7	EUT on side
16920.120			88.0	1.0			V-Horn	PK	1.98E-08	-47.0	-13.0	-34.0	EUT horizontal
16921.480			131.0	1.0			H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	EUT horizontal
15040.640			360.0	1.7			V-Horn	PK	1.17E-08	-49.3	-13.0	-36.3	EUT vertical
15038.860			200.0	1.7			V-Horn	PK	1.14E-08	-49.4	-13.0	-36.4	EUT on side
15039.420			87.0	1.0			H-Horn	PK	9.27E-09	-50.3	-13.0	-37.3	EUT vertical
15041.430			323.0	1.7			V-Horn	PK	8.26E-09	-50.8	-13.0	-37.8	EUT horizontal
15039.670			347.0	1.0			H-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT horizontal
15039.270			60.0	1.0			H-Horn	PK	7.54E-09	-51.2	-13.0	-38.2	EUT on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

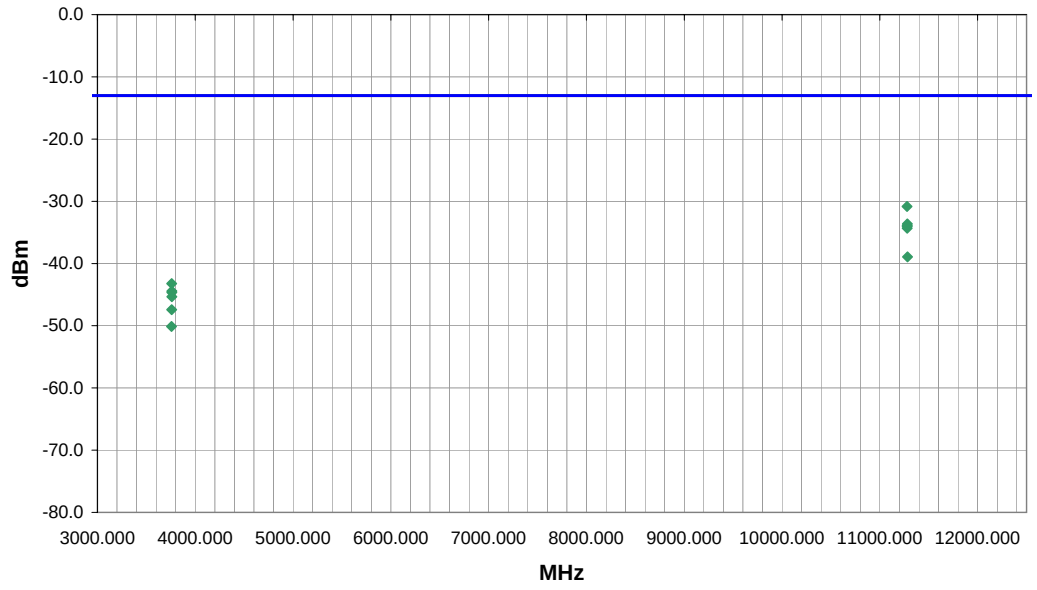
Transmitting GSM, mid channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	6
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11278.540			284.0	1.4			V-Horn	PK	8.26E-07	-30.8	-13.0	-17.8	EUT on side
11281.380			187.0	1.4			V-Horn	PK	4.34E-07	-33.6	-13.0	-20.6	EUT vertical
11279.940			166.0	1.2			H-Horn	PK	4.05E-07	-33.9	-13.0	-20.9	EUT vertical
11279.510			156.0	1.0			H-Horn	PK	3.95E-07	-34.0	-13.0	-21.0	EUT horizontal
11279.600			90.0	1.0			V-Horn	PK	3.69E-07	-34.3	-13.0	-21.3	EUT horizontal
11282.410			212.0	1.6			H-Horn	PK	1.28E-07	-38.9	-13.0	-25.9	EUT on side
3759.120			127.0	1.0			H-Horn	PK	4.75E-08	-43.2	-13.0	-30.2	EUT horizontal
3760.737			191.0	1.0			V-Horn	PK	3.61E-08	-44.4	-13.0	-31.4	EUT vertical
3760.045			170.0	1.0			V-Horn	PK	3.44E-08	-44.6	-13.0	-31.6	EUT on side
3761.487			343.0	1.0			V-Horn	PK	2.93E-08	-45.3	-13.0	-32.3	EUT horizontal
3758.895			123.0	1.2			H-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	EUT vertical
3757.845			230.0	1.5			H-Horn	PK	9.71E-09	-50.1	-13.0	-37.1	EUT on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

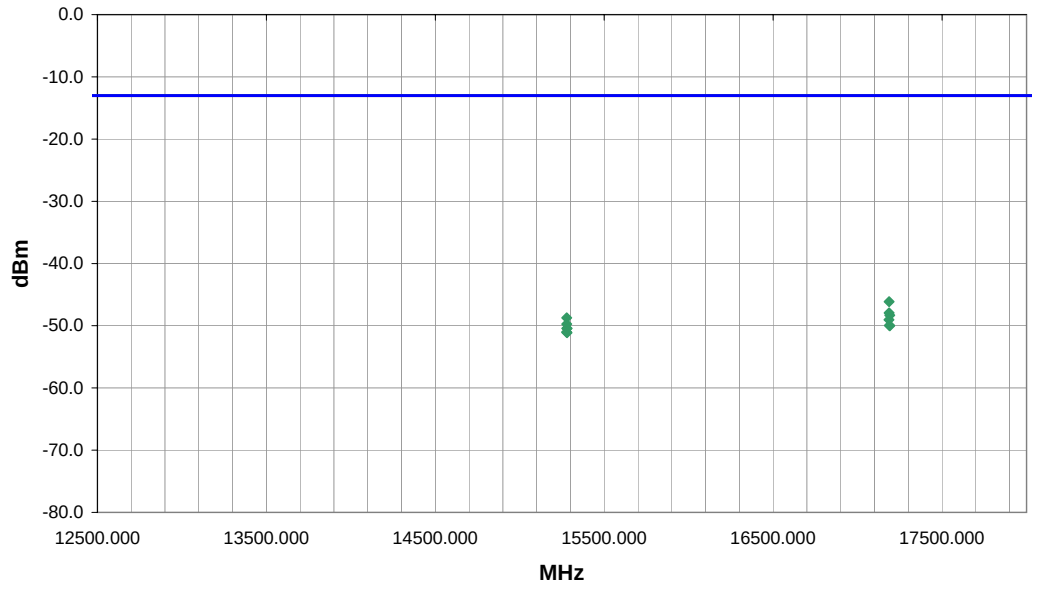
Transmitting GSM, high channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
17186.060			169.0	1.0			H-Horn	PK	2.44E-08	-46.1	-13.0	-33.1	EUT vertical
17186.010			126.0	1.0			V-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	EUT vertical
17190.070			123.0	1.0			V-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	EUT on side
15277.740			227.0	1.3			V-Horn	PK	1.34E-08	-48.7	-13.0	-35.7	EUT on side
17185.820			67.0	1.0			H-Horn	PK	1.25E-08	-49.0	-13.0	-36.0	EUT on side
15277.700			148.0	1.7			H-Horn	PK	1.06E-08	-49.7	-13.0	-36.7	EUT vertical
17188.090			161.0	1.0			V-Horn	PK	1.02E-08	-49.9	-13.0	-36.9	EUT horizontal
17190.640			203.0	1.0			H-Horn	PK	9.93E-09	-50.0	-13.0	-37.0	EUT horizontal
15278.560			359.0	1.6			H-Horn	PK	9.06E-09	-50.4	-13.0	-37.4	EUT on side
15279.590			295.0	1.3			V-Horn	PK	9.06E-09	-50.4	-13.0	-37.4	EUT vertical
15277.430			41.0	1.8			V-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT horizontal
15280.180			39.0	1.7			H-Horn	PK	7.71E-09	-51.1	-13.0	-38.1	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

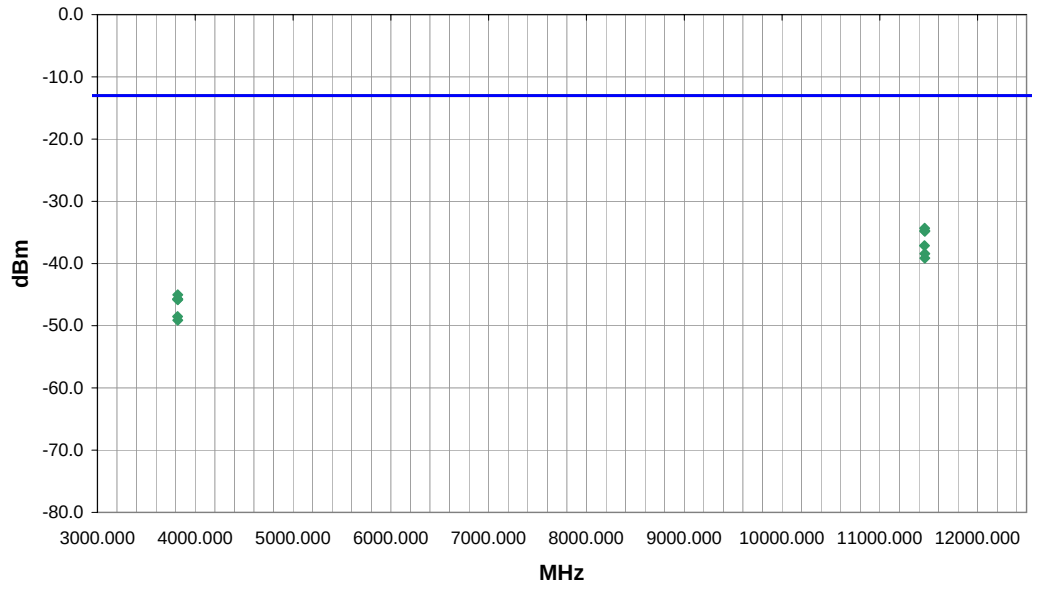
Transmitting GSM, high channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	8
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11458.370			284.0	1.5			V-Horn	PK	3.69E-07	-34.3	-13.0	-21.3	EUT vertical
11459.100			276.0	1.5			V-Horn	PK	3.37E-07	-34.7	-13.0	-21.7	EUT on side
11459.540			275.0	1.4			H-Horn	PK	3.29E-07	-34.8	-13.0	-21.8	EUT on side
11456.580			10.0	1.0			V-Horn	PK	1.94E-07	-37.1	-13.0	-24.1	EUT horizontal
11459.210			208.0	1.2			H-Horn	PK	1.44E-07	-38.4	-13.0	-25.4	EUT vertical
11460.280			165.0	1.0			H-Horn	PK	1.22E-07	-39.1	-13.0	-26.1	EUT horizontal
3820.492			346.0	1.0			H-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	EUT on side
3819.158			207.0	1.0			V-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	EUT on side
3820.650			342.0	1.0			V-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	EUT vertical
3820.592			284.0	1.0			H-Horn	PK	2.61E-08	-45.8	-13.0	-32.8	EUT vertical
3818.917			63.0	1.0			V-Horn	PK	1.40E-08	-48.5	-13.0	-35.5	EUT horizontal
3820.917			86.0	1.0			H-Horn	PK	1.22E-08	-49.1	-13.0	-36.1	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

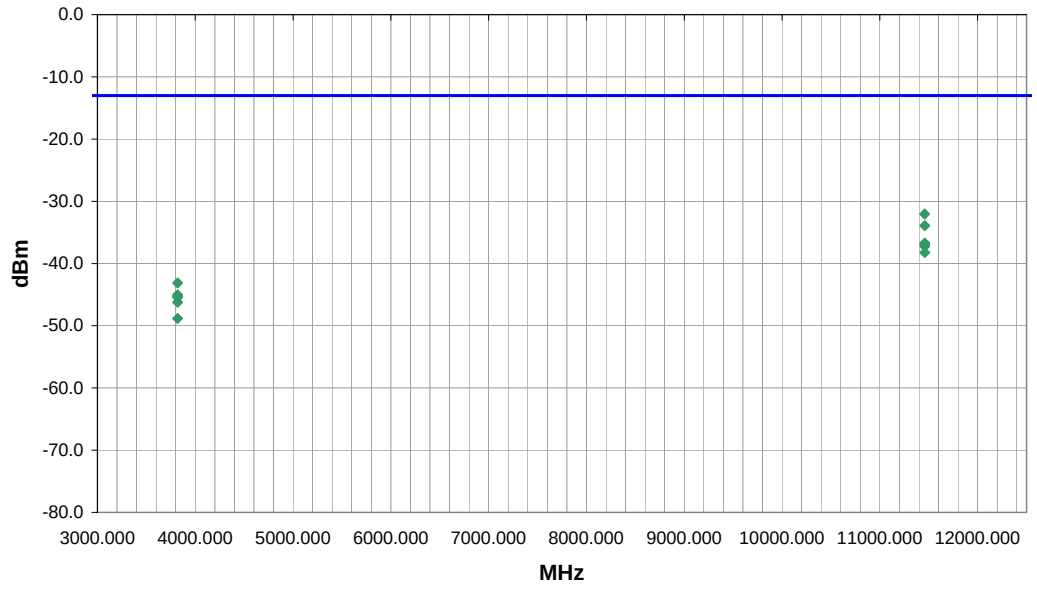
Transmitting GPRS, high channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	9
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11458.350			272.0	1.4			V-Horn	PK	6.27E-07	-32.0	-13.0	-19.0	EUT on side
11459.100			260.0	1.0			H-Horn	PK	4.05E-07	-33.9	-13.0	-20.9	EUT Vertical
11458.760			227.0	1.3			V-Horn	PK	2.12E-07	-36.7	-13.0	-23.7	EUT Vertical
11458.350			238.0	1.4			H-Horn	PK	2.03E-07	-36.9	-13.0	-23.9	EUT horizontal
11459.330			131.0	1.4			V-Horn	PK	1.89E-07	-37.2	-13.0	-24.2	EUT horizontal
11459.130			210.0	1.4			H-Horn	PK	1.50E-07	-38.2	-13.0	-25.2	EUT on side
3819.767			303.0	1.9			H-Horn	PK	4.87E-08	-43.1	-13.0	-30.1	EUT on side
3819.692			214.0	1.0			H-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	EUT Vertical
3819.733			150.0	1.0			V-Horn	PK	2.93E-08	-45.3	-13.0	-32.3	EUT Vertical
3820.000			205.0	1.0			V-Horn	PK	2.86E-08	-45.4	-13.0	-32.4	EUT on side
3819.475			27.0	1.0			V-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	EUT horizontal
3820.167			23.0	1.7			H-Horn	PK	1.31E-08	-48.8	-13.0	-35.8	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

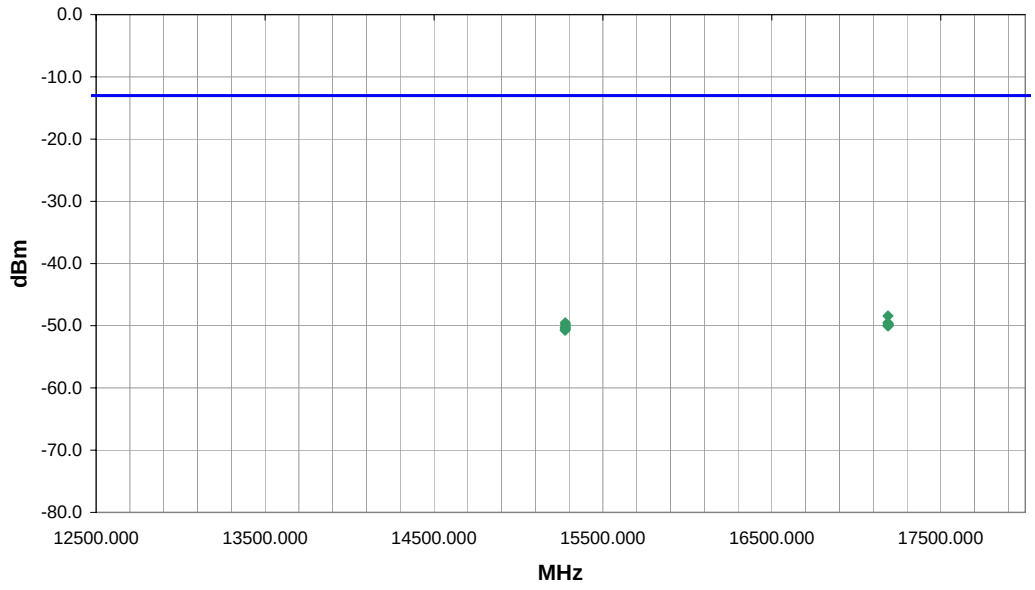
Transmitting GPRS, high channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	10
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
17187.380			224.0	1.0			H-Horn	PK	1.44E-08	-48.4	-13.0	-35.4	EUT Vertical
15277.240			214.0	3.5			V-Horn	PK	1.11E-08	-49.5	-13.0	-36.5	EUT on side
17186.740			306.0	1.0			V-Horn	PK	1.11E-08	-49.5	-13.0	-36.5	EUT Horizontal
17190.290			254.0	1.1			H-Horn	PK	1.06E-08	-49.7	-13.0	-36.7	EUT Horizontal
15279.240			18.0	1.0			H-Horn	PK	1.04E-08	-49.8	-13.0	-36.8	EUT on side
17188.300			356.0	1.0			V-Horn	PK	1.02E-08	-49.9	-13.0	-36.9	EUT Vertical
17186.690			75.0	2.4			H-Horn	PK	9.93E-09	-50.0	-13.0	-37.0	EUT on side
17187.880			20.0	1.0			V-Horn	PK	9.93E-09	-50.0	-13.0	-37.0	EUT on side
15277.650			271.0	3.5			V-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	EUT Horizontal
15276.090			24.0	1.0			H-Horn	PK	9.27E-09	-50.3	-13.0	-37.3	EUT Vertical
15277.930			342.0	3.5			V-Horn	PK	8.85E-09	-50.5	-13.0	-37.5	EUT Vertical
15276.090			199.0	1.0			H-Horn	PK	8.46E-09	-50.7	-13.0	-37.7	EUT Horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

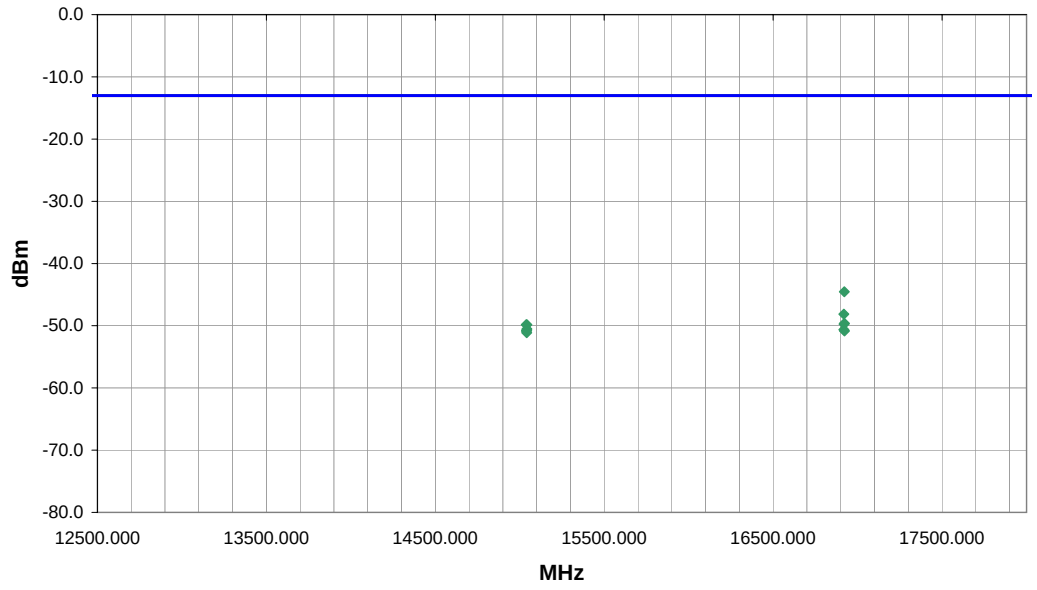
Transmitting GPRS, mid channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	11
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16921.000			305.0	1.0			V-Horn	PK	3.52E-08	-44.5	-13.0	-31.5	EUT vertical
16918.750			347.0	1.0			H-Horn	PK	1.54E-08	-48.1	-13.0	-35.1	EUT vertical
16922.140			104.0	1.0			V-Horn	PK	1.09E-08	-49.6	-13.0	-36.6	EUT on side
16919.700			297.0	1.0			H-Horn	PK	1.06E-08	-49.7	-13.0	-36.7	EUT on side
15038.340			66.0	1.0			H-Horn	PK	1.04E-08	-49.8	-13.0	-36.8	EUT on side
15042.250			268.0	1.0			V-Horn	PK	1.04E-08	-49.8	-13.0	-36.8	EUT on side
15042.200			235.0	1.0			H-Horn	PK	8.85E-09	-50.5	-13.0	-37.5	EUT vertical
16918.760			285.0	1.0			H-Horn	PK	8.65E-09	-50.6	-13.0	-37.6	EUT horizontal
15041.360			35.0	1.0			V-Horn	PK	8.46E-09	-50.7	-13.0	-37.7	EUT vertical
15039.240			149.0	1.0			H-Horn	PK	8.26E-09	-50.8	-13.0	-37.8	EUT horizontal
16922.380			316.0	1.0			V-Horn	PK	8.26E-09	-50.8	-13.0	-37.8	EUT horizontal
15041.130			278.0	1.0			V-Horn	PK	7.71E-09	-51.1	-13.0	-38.1	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

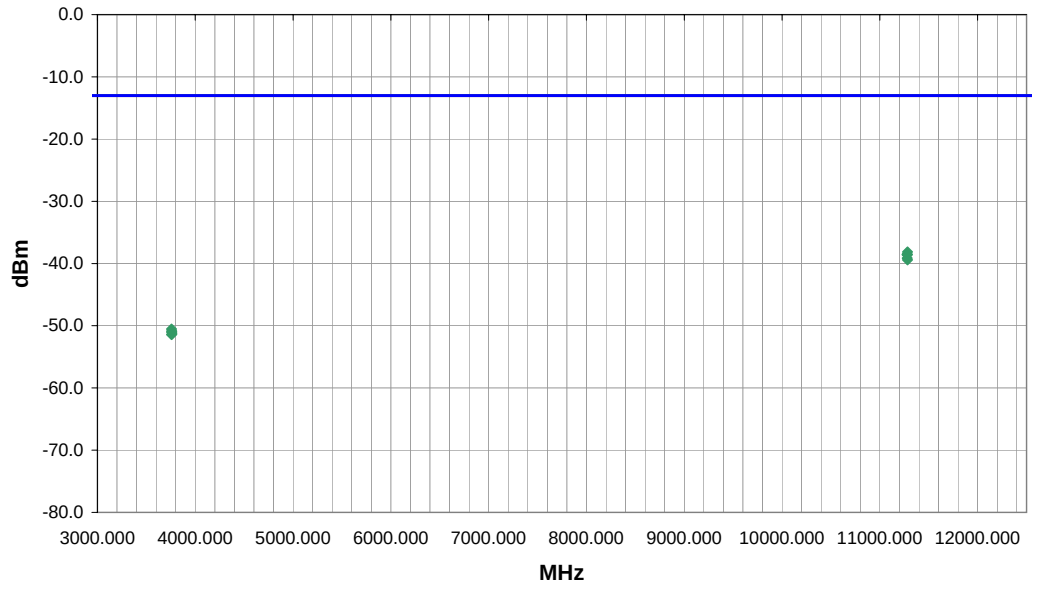
Transmitting GPRS, mid channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	12
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11282.100			16.0	1.0			V-Horn	PK	1.54E-07	-38.1	-13.0	-25.1	EUT vertical
11277.630			104.0	1.0			H-Horn	PK	1.40E-07	-38.5	-13.0	-25.5	EUT on side
11280.930			246.0	2.4			H-Horn	PK	1.40E-07	-38.5	-13.0	-25.5	EUT horizontal
11278.780			329.0	2.3			H-Horn	PK	1.37E-07	-38.6	-13.0	-25.6	EUT vertical
11279.050			353.0	1.0			V-Horn	PK	1.22E-07	-39.1	-13.0	-26.1	EUT horizontal
11282.550			343.0	1.0			V-Horn	PK	1.14E-07	-39.4	-13.0	-26.4	EUT on side
3757.745			57.0	3.4			V-Horn	PK	8.85E-09	-50.5	-13.0	-37.5	EUT horizontal
3759.153			309.0	3.4			V-Horn	PK	8.26E-09	-50.8	-13.0	-37.8	EUT vertical
3758.495			316.0	1.6			H-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT vertical
3760.453			264.0	3.5			V-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT on side
3761.853			272.0	1.0			H-Horn	PK	7.36E-09	-51.3	-13.0	-38.3	EUT on side
3758.228			1.0	1.6			H-Horn	PK	7.20E-09	-51.4	-13.0	-38.4	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/21/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
Tested by:	Holly Ashkannejhad	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

None

EUT OPERATING MODES

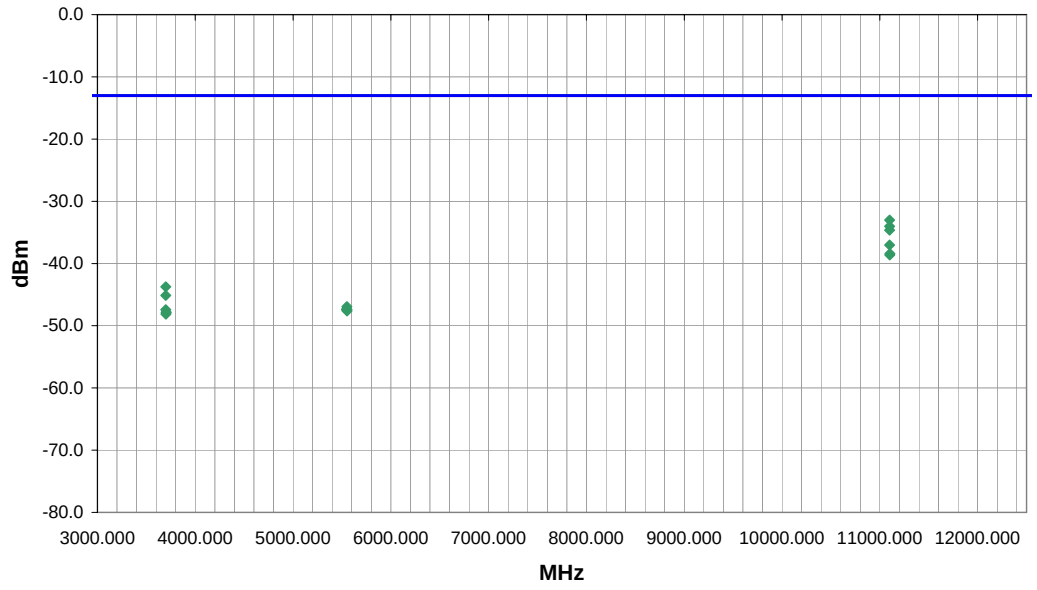
Transmitting GPRS, low channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11100.110			274.0	1.4			H-Horn	PK	4.98E-07	-33.0	-13.0	-20.0	EUT on side
11100.040			264.0	1.0			V-Horn	PK	3.95E-07	-34.0	-13.0	-21.0	EUT on side
11100.300			304.0	1.0			V-Horn	PK	3.44E-07	-34.6	-13.0	-21.6	EUT vertical
11099.640			250.0	1.0			H-Horn	PK	1.98E-07	-37.0	-13.0	-24.0	EUT vertical
11103.230			181.0	1.0			V-Horn	PK	1.44E-07	-38.4	-13.0	-25.4	EUT horizontal
11100.780			244.0	1.4			H-Horn	PK	1.37E-07	-38.6	-13.0	-25.6	EUT horizontal
3698.608			282.0	1.0			H-Horn	PK	4.24E-08	-43.7	-13.0	-30.7	EUT vertical
3698.550			337.0	1.0			V-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	EUT vertical
5550.907			60.0	2.1			V-Horn	PK	2.03E-08	-46.9	-13.0	-33.9	EUT horizontal
5548.473			0.0	1.8			V-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	EUT on side
5548.923			187.0	1.0			H-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	EUT vertical
5549.290			221.0	1.9			H-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	EUT horizontal
5550.790			0.0	1.9			H-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	EUT on side
3698.350			146.0	1.0			V-Horn	PK	1.81E-08	-47.4	-13.0	-34.4	EUT horizontal
5552.623			66.0	1.0			V-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT vertical
3702.658			325.0	2.1			H-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	EUT horizontal
3701.267			130.0	1.0			V-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	EUT on side
3700.517			233.0	1.0			H-Horn	PK	1.54E-08	-48.1	-13.0	-35.1	EUT on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
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

None

EUT OPERATING MODES

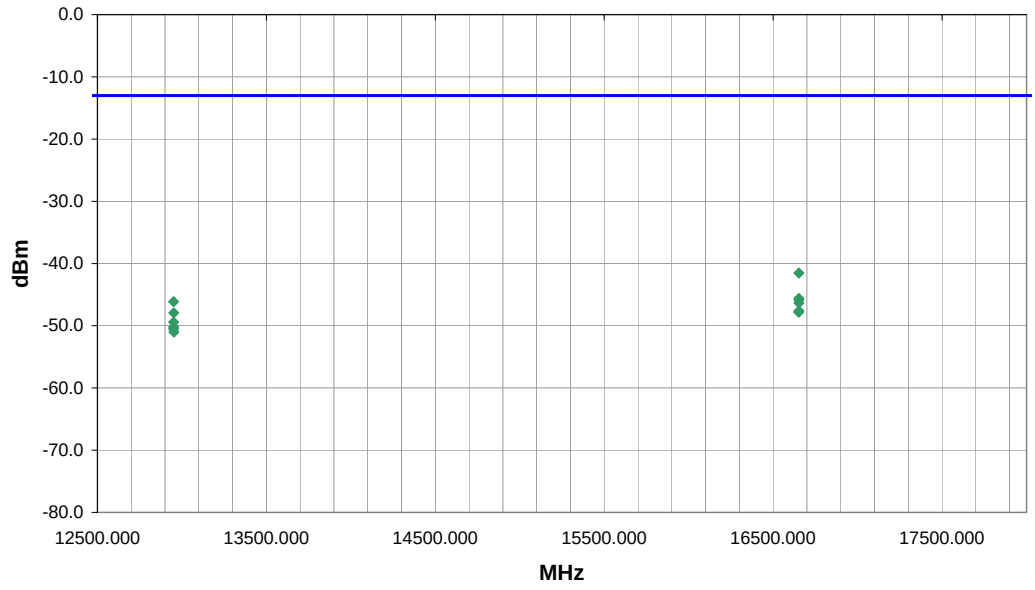
Transmitting GPRS, low channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16652.360			297.0	1.1			V-Horn	PK	7.03E-08	-41.5	-13.0	-28.5	EUT horizontal
16652.350			314.0	1.2			V-Horn	PK	2.74E-08	-45.6	-13.0	-32.6	EUT on side
16651.800			322.0	1.1			V-Horn	PK	2.61E-08	-45.8	-13.0	-32.8	EUT vertical
12950.630			49.0	1.7			V-Horn	PK	2.44E-08	-46.1	-13.0	-33.1	EUT vertical
16652.320			240.0	1.0			H-Horn	PK	2.33E-08	-46.3	-13.0	-33.3	EUT on side
16652.380			319.0	1.0			H-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT vertical
16651.340			282.0	1.0			H-Horn	PK	1.65E-08	-47.8	-13.0	-34.8	EUT horizontal
12951.310			269.0	1.7			V-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	EUT on side
12950.960			299.0	1.0			H-Horn	PK	1.14E-08	-49.4	-13.0	-36.4	EUT vertical
12950.940			321.0	1.0			H-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	EUT on side
12951.220			110.0	1.7			V-Horn	PK	8.85E-09	-50.5	-13.0	-37.5	EUT horizontal
12952.660			291.0	1.0			H-Horn	PK	7.89E-09	-51.0	-13.0	-38.0	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
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

None

EUT OPERATING MODES

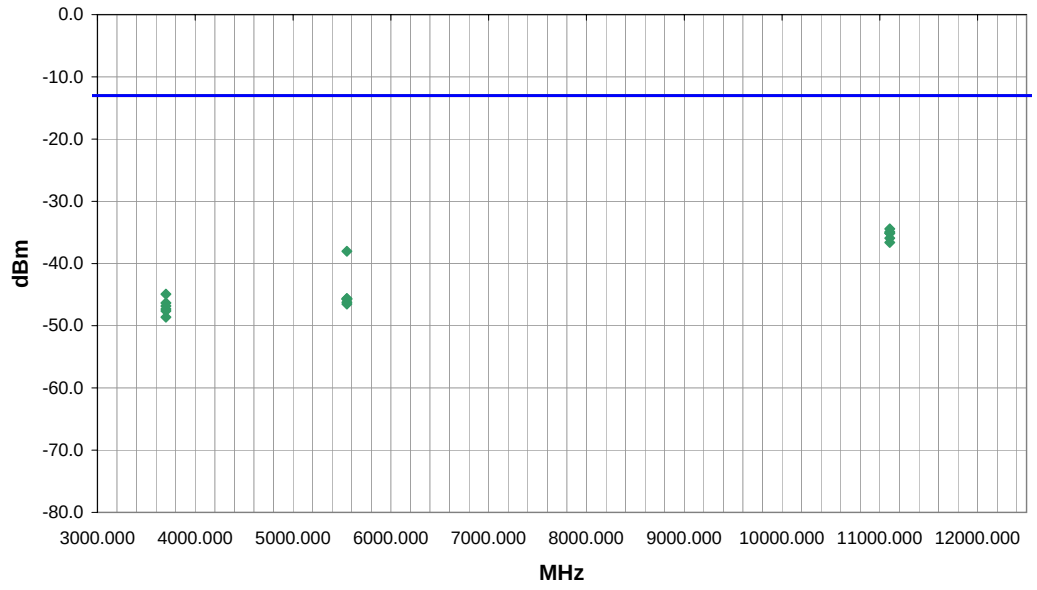
Transmitting EDGE, low channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	15
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11101.730			8.0	1.2			V-Horn	PK	3.61E-07	-34.4	-13.0	-21.4	EUT vertical
11100.970			221.0	1.0			H-Horn	PK	3.21E-07	-34.9	-13.0	-21.9	EUT on side
11101.210			182.0	1.0			H-Horn	PK	3.07E-07	-35.1	-13.0	-22.1	EUT horizontal
11101.260			286.0	1.0			V-Horn	PK	3.07E-07	-35.1	-13.0	-22.1	EUT on side
11101.870			37.0	1.0			H-Horn	PK	2.55E-07	-35.9	-13.0	-22.9	EUT vertical
11101.190			68.0	1.0			V-Horn	PK	2.17E-07	-36.6	-13.0	-23.6	EUT horizontal
5550.057			339.0	1.0			V-Horn	PK	1.57E-07	-38.0	-13.0	-25.0	EUT vertical
3700.290			39.0	1.0			V-Horn	PK	3.21E-08	-44.9	-13.0	-31.9	EUT vertical
5550.915			236.0	1.0			V-Horn	PK	2.74E-08	-45.6	-13.0	-32.6	EUT horizontal
5550.693			253.0	1.1			H-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	EUT vertical
5551.125			8.0	1.0			H-Horn	PK	2.67E-08	-45.7	-13.0	-32.7	EUT horizontal
5550.297			345.0	1.0			H-Horn	PK	2.38E-08	-46.2	-13.0	-33.2	EUT on side
3700.307			158.0	1.3			H-Horn	PK	2.33E-08	-46.3	-13.0	-33.3	EUT vertical
5551.070			130.0	1.0			V-Horn	PK	2.22E-08	-46.5	-13.0	-33.5	EUT on side
3700.317			100.0	1.0			V-Horn	PK	2.08E-08	-46.8	-13.0	-33.8	EUT on side
3700.460			357.0	1.0			V-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	EUT horizontal
3700.240			226.0	1.0			H-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT horizontal
3700.495			256.0	1.1			H-Horn	PK	1.37E-08	-48.6	-13.0	-35.6	EUT on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
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

None

EUT OPERATING MODES

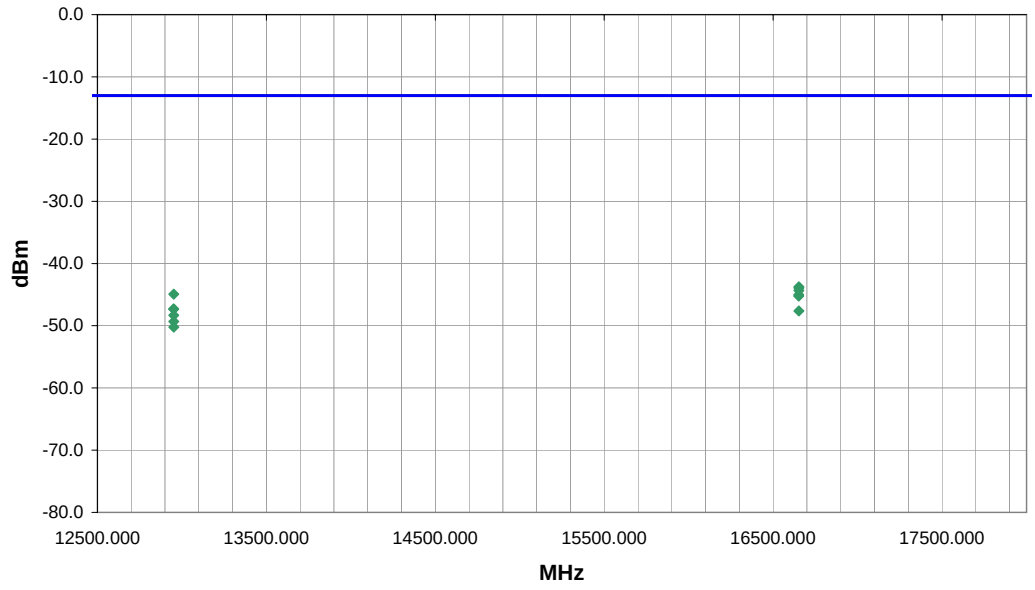
Transmitting EDGE, low channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	16
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16651.800			332.0	1.0			H-Horn	PK	4.24E-08	-43.7	-13.0	-30.7	EUT vertical
16651.820			330.0	1.5			V-Horn	PK	4.05E-08	-43.9	-13.0	-30.9	EUT on side
16651.800			238.0	1.0			H-Horn	PK	3.69E-08	-44.3	-13.0	-31.3	EUT on side
12951.620			215.0	1.0			H-Horn	PK	3.21E-08	-44.9	-13.0	-31.9	EUT horizontal
16651.580			259.0	1.1			V-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	EUT horizontal
16651.740			342.0	1.0			V-Horn	PK	3.00E-08	-45.2	-13.0	-32.2	EUT vertical
12951.210			270.0	1.4			H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	EUT on side
12951.390			352.0	1.0			H-Horn	PK	1.85E-08	-47.3	-13.0	-34.3	EUT vertical
16652.140			157.0	1.0			H-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT horizontal
12951.480			266.0	1.7			V-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	EUT on side
12952.140			340.0	1.0			V-Horn	PK	1.17E-08	-49.3	-13.0	-36.3	EUT vertical
12951.500			85.0	1.0			V-Horn	PK	9.49E-09	-50.2	-13.0	-37.2	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
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

None

EUT OPERATING MODES

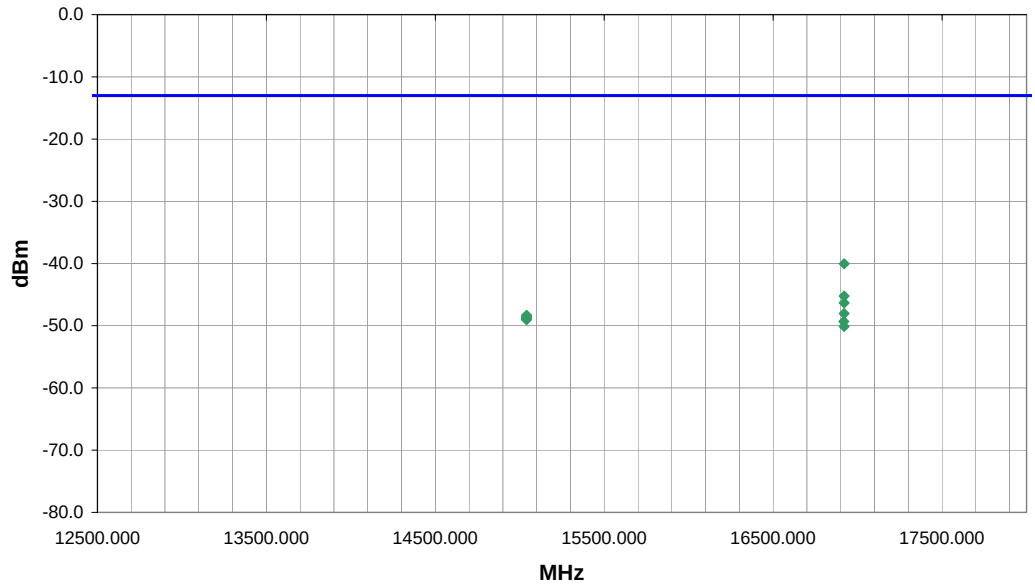
Transmitting EDGE, mid channel, PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	17
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16920.110			317.0	1.0			H-Horn	PK	9.93E-08	-40.0	-13.0	-27.0	EUT on side
16920.260			68.0	1.1			V-Horn	PK	3.00E-08	-45.2	-13.0	-32.2	EUT horizontal
16920.210			227.0	1.0			H-Horn	PK	2.33E-08	-46.3	-13.0	-33.3	EUT horizontal
16919.980			317.0	1.0			H-Horn	PK	1.57E-08	-48.0	-13.0	-35.0	EUT on side
15040.250			229.0	1.0			V-Horn	PK	1.47E-08	-48.3	-13.0	-35.3	EUT on side
15039.920			219.0	1.0			H-Horn	PK	1.40E-08	-48.5	-13.0	-35.5	EUT horizontal
15040.090			351.0	1.0			H-Horn	PK	1.37E-08	-48.6	-13.0	-35.6	EUT vertical
15040.310			160.0	1.0			V-Horn	PK	1.31E-08	-48.8	-13.0	-35.8	EUT horizontal
15039.590			-1.0	1.0			H-Horn	PK	1.28E-08	-48.9	-13.0	-35.9	EUT on side
15039.870			32.0	1.0			V-Horn	PK	1.25E-08	-49.0	-13.0	-36.0	EUT vertical
16918.730			332.0	1.0			H-Horn	PK	1.17E-08	-49.3	-13.0	-36.3	EUT vertical
16920.400			20.0	1.1			V-Horn	PK	9.71E-09	-50.1	-13.0	-37.1	EUT vertical

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	21
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.5
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

None

EUT OPERATING MODES

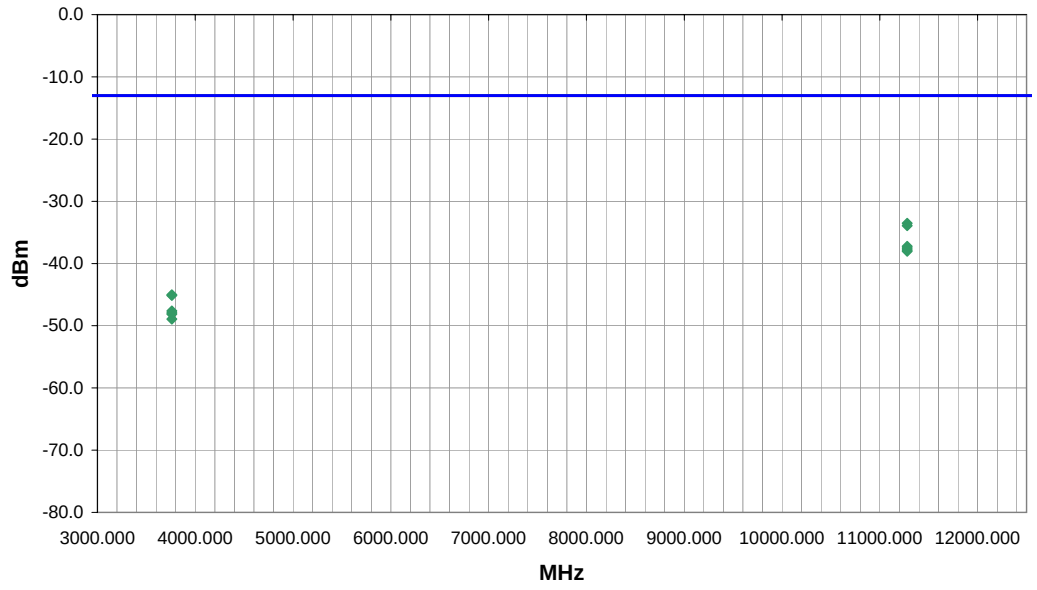
Transmitting EDGE, mid channel, PCS band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	18
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11279.860			48.0	1.0			H-Horn	PK	4.44E-07	-33.5	-13.0	-20.5	EUT vertical
11280.170			274.0	1.3			H-Horn	PK	4.05E-07	-33.9	-13.0	-20.9	EUT on side
11280.030			18.0	1.0			V-Horn	PK	1.89E-07	-37.2	-13.0	-24.2	EUT vertical
11280.150			293.0	1.0			V-Horn	PK	1.77E-07	-37.5	-13.0	-24.5	EUT horizontal
11280.000			239.0	1.2			V-Horn	PK	1.65E-07	-37.8	-13.0	-24.8	EUT on side
11280.220			123.0	1.1			H-Horn	PK	1.57E-07	-38.0	-13.0	-25.0	EUT horizontal
3760.097			286.0	1.1			H-Horn	PK	3.14E-08	-45.0	-13.0	-32.0	EUT on side
3759.997			25.0	1.3			V-Horn	PK	3.07E-08	-45.1	-13.0	-32.1	EUT vertical
3759.980			173.0	1.1			H-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT vertical
3760.073			75.0	1.0			V-Horn	PK	1.61E-08	-47.9	-13.0	-34.9	EUT horizontal
3759.943			33.0	1.1			H-Horn	PK	1.54E-08	-48.1	-13.0	-35.1	EUT horizontal
3760.100			256.0	1.1			V-Horn	PK	1.28E-08	-48.9	-13.0	-35.9	EUT on side

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
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

None

EUT OPERATING MODES

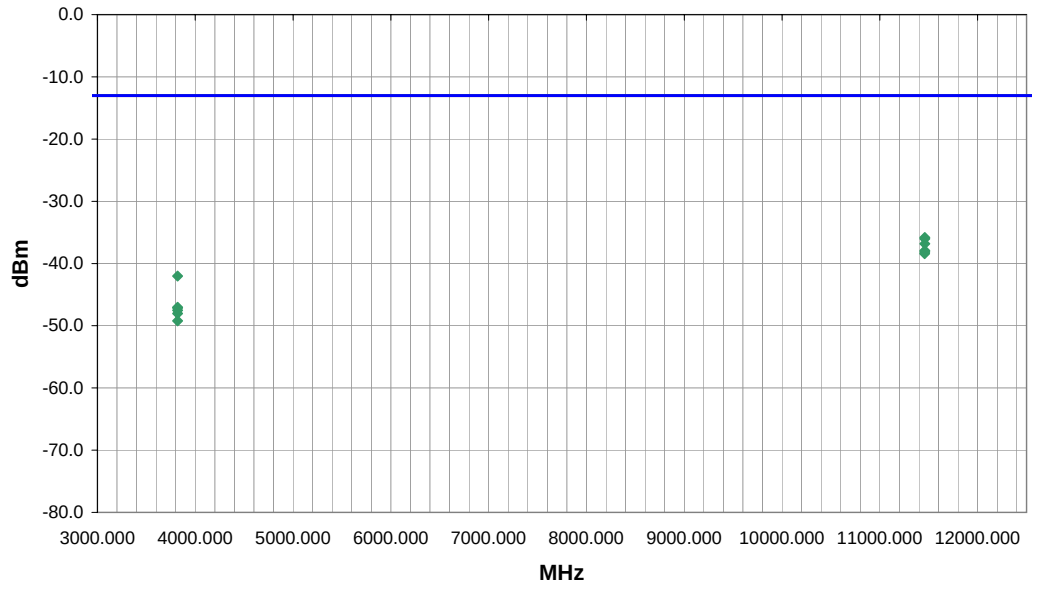
Transmitting EDGE, high channel, PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	19
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
11458.890			301.0	1.0			H-Horn	PK	2.61E-07	-35.8	-13.0	-22.8	EUT vertical
11459.070			303.0	1.0			V-Horn	PK	2.50E-07	-36.0	-13.0	-23.0	EUT on side
11458.830			14.0	1.0			V-Horn	PK	2.08E-07	-36.8	-13.0	-23.8	EUT vertical
11458.970			109.0	1.0			H-Horn	PK	1.61E-07	-37.9	-13.0	-24.9	EUT horizontal
11458.800			324.0	1.0			V-Horn	PK	1.54E-07	-38.1	-13.0	-25.1	EUT horizontal
11458.230			260.0	1.0			H-Horn	PK	1.44E-07	-38.4	-13.0	-25.4	EUT on side
3819.318			116.0	1.0			V-Horn	PK	6.27E-08	-42.0	-13.0	-29.0	EUT vertical
3819.822			79.0	1.0			H-Horn	PK	1.98E-08	-47.0	-13.0	-34.0	EUT vertical
3819.258			218.0	1.0			V-Horn	PK	1.94E-08	-47.1	-13.0	-34.1	EUT on side
3819.638			323.0	1.0			H-Horn	PK	1.77E-08	-47.5	-13.0	-34.5	EUT horizontal
3819.732			321.0	1.0			H-Horn	PK	1.57E-08	-48.0	-13.0	-35.0	EUT on side
3820.178			38.0	1.0			V-Horn	PK	1.19E-08	-49.2	-13.0	-36.2	EUT horizontal

NORTHWEST EMC

Out of Band Emissions

PSA 2007.05.07
EMI 2008.1.9

EUT:	Siemens MC75 installed in TDS Nomad	Work Order:	TRPO0040
Serial Number:	None	Date:	04/22/08
Customer:	Tripod Data Systems, Inc.	Temperature:	23
Attendees:	None	Humidity:	24%
Project:	None	Barometric Pres.:	1018.5
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

None

EUT OPERATING MODES

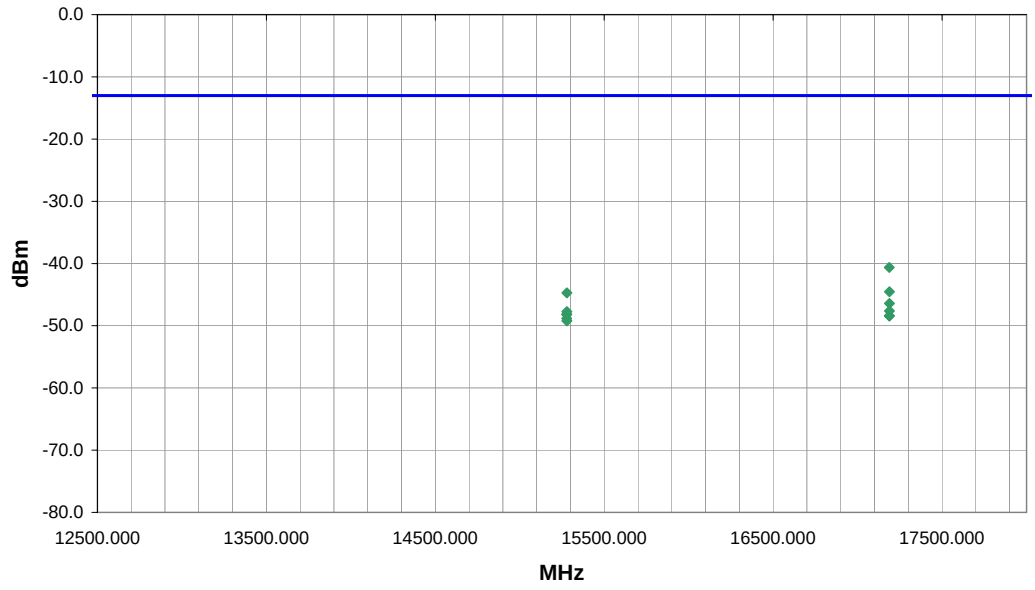
Transmitting EDGE, high channel, PCS band

DEVIATIONS FROM TEST STANDARD

No deviations.

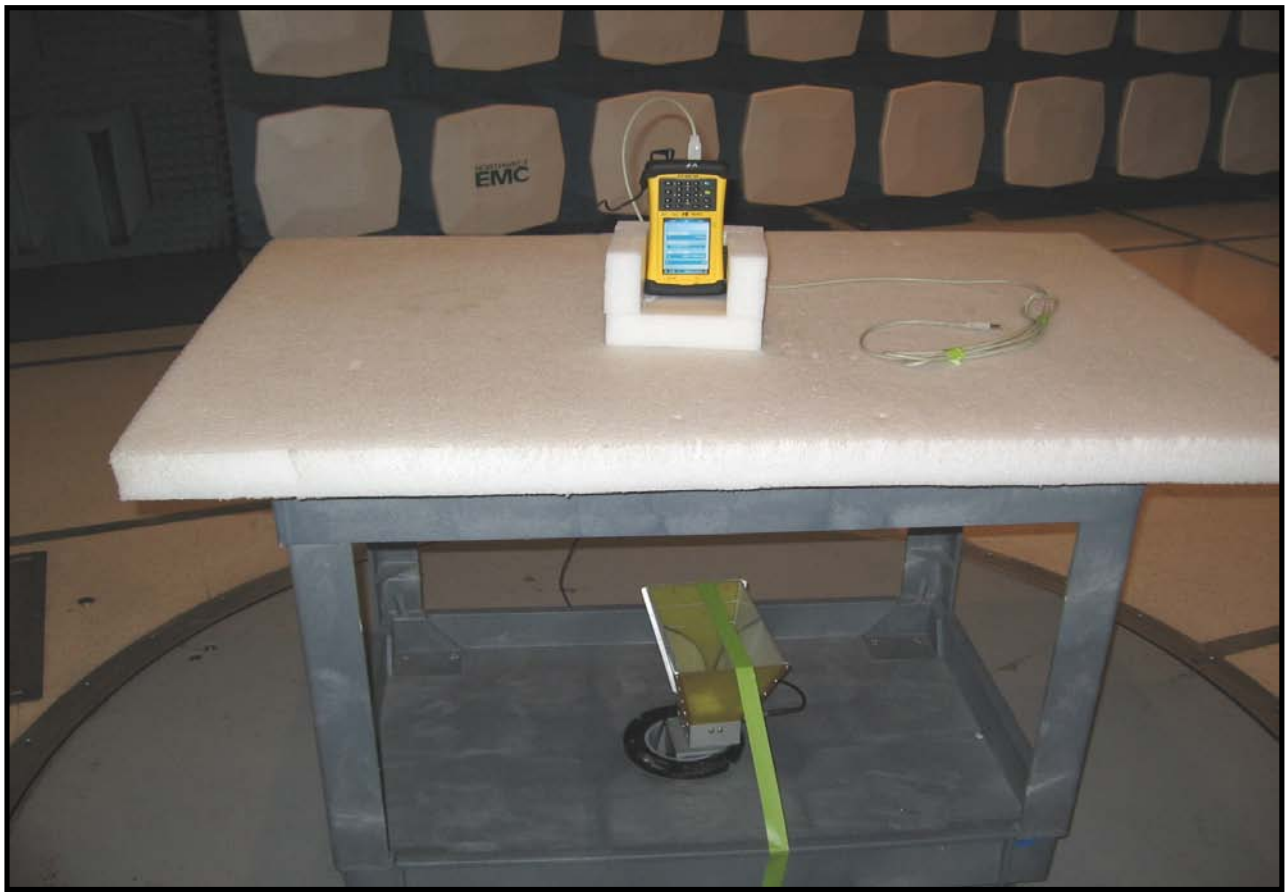
Run #	20
Configuration #	3
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
17187.750			357.0	1.6			V-Horn	PK	8.65E-08	-40.6	-13.0	-27.6	EUT vertical
17188.520			340.0	1.0			H-Horn	PK	3.52E-08	-44.5	-13.0	-31.5	EUT vertical
15278.510			238.0	1.4			V-Horn	PK	3.37E-08	-44.7	-13.0	-31.7	EUT on side
17188.240			302.0	1.0			H-Horn	PK	2.28E-08	-46.4	-13.0	-33.4	EUT horizontal
17188.220			224.0	1.6			V-Horn	PK	1.73E-08	-47.6	-13.0	-34.6	EUT on side
15278.640			255.0	1.0			H-Horn	PK	1.69E-08	-47.7	-13.0	-34.7	EUT on side
15278.320			292.0	1.0			H-Horn	PK	1.54E-08	-48.1	-13.0	-35.1	EUT vertical
15278.100			279.0	1.0			V-Horn	PK	1.50E-08	-48.2	-13.0	-35.2	EUT horizontal
17187.330			329.0	1.6			V-Horn	PK	1.44E-08	-48.4	-13.0	-35.4	EUT horizontal
17187.880			327.0	1.0			H-Horn	PK	1.44E-08	-48.4	-13.0	-35.4	EUT on side
15278.100			251.0	1.0			V-Horn	PK	1.31E-08	-48.8	-13.0	-35.8	EUT vertical
15278.470			300.0	1.0			H-Horn	PK	1.19E-08	-49.2	-13.0	-36.2	EUT horizontal

Out of Band Emissions



Out of Band Emissions