

Tripod Data Systems, Inc.

Siemens MC75 installed in TDS Nomad

May 02, 2008

Report No. TRPO0040 Rev. 1

Report Prepared By



www.nwemc.com

1-888-EMI-CERT

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EMC Test Report

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
AC Powerline Conducted Emissions	FCC 15.107:2007 Class B	ANSI C63.4:2003	Pass
Radiated Spurious Emissions	FCC 15.109:2007 Class B	ANSI C63.4:2003	Pass

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

Test Facility

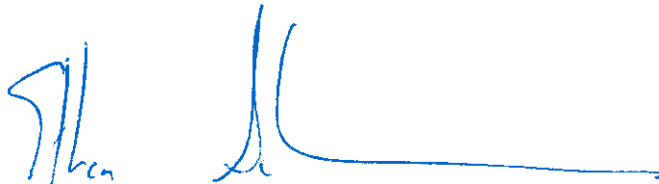
The measurement facility used to collect the data is located at:

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

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

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

Approved By:



Ethan Schoonover, Sultan Lab Manager



NVLAP Lab Code: 200630-0

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

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

Revision Number	Description	Date	Page Number
01	Made this report reference Nomad instead of Eagle	5-9-08	1, 2, 7, 8, 11, 12, 13, 16, 17, 18, 19, 20, 21, 22, 23

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 TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV'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



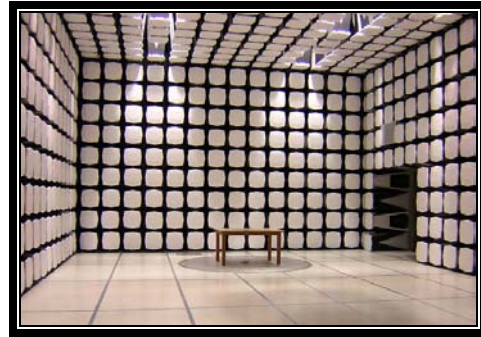
MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

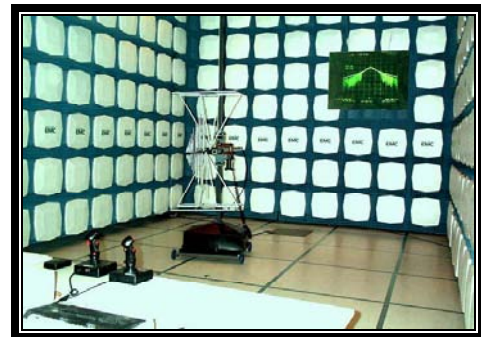
For details on the Scopes of our Accreditations, please visit:

<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:	Siemens MC75 installed in TDS Nomad
First Date of Test:	April 23, 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:

To demonstrate compliance of the receiver to FCC requirements.

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 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	4/23/2008	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.
2	4/28/2008	Radiated Spurious Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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

Receive mode, high channel, Cell band
 Receive mode, mid channel, Cell band
 Receive mode, low channel, Cell band

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	6 GHz
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CLOCKS AND OSCILLATORS

None Provided

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Antenna, Horn	ETS	3115	AHW	NCR	0
Universal Radio Communication Tester	Rhode & Schwartz	CMU200	BSU	12/21/2006	24
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	16
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

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

Using the mode of operation and configuration noted within this report, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth and antenna height such that the maximum radiated emissions level will be detected. This requires the use of a turntable and an antenna positioner. The preferred method of a continuous azimuth search is utilized for frequency scans of the EUT field strength with both polarities of the measuring antenna. A calibrated, linearly polarized antenna was positioned at the specified distance from the periphery of the EUT.

Tests were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Though specified in the report, the measurement distance shall be 3 meters or 10 meters. At any measurement distance, the antenna height was varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization, except that for vertical polarization the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the antenna clears the ground surface by at least 25 cm.

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 15.109:2007 Class B	ANSI C63.4:2003	

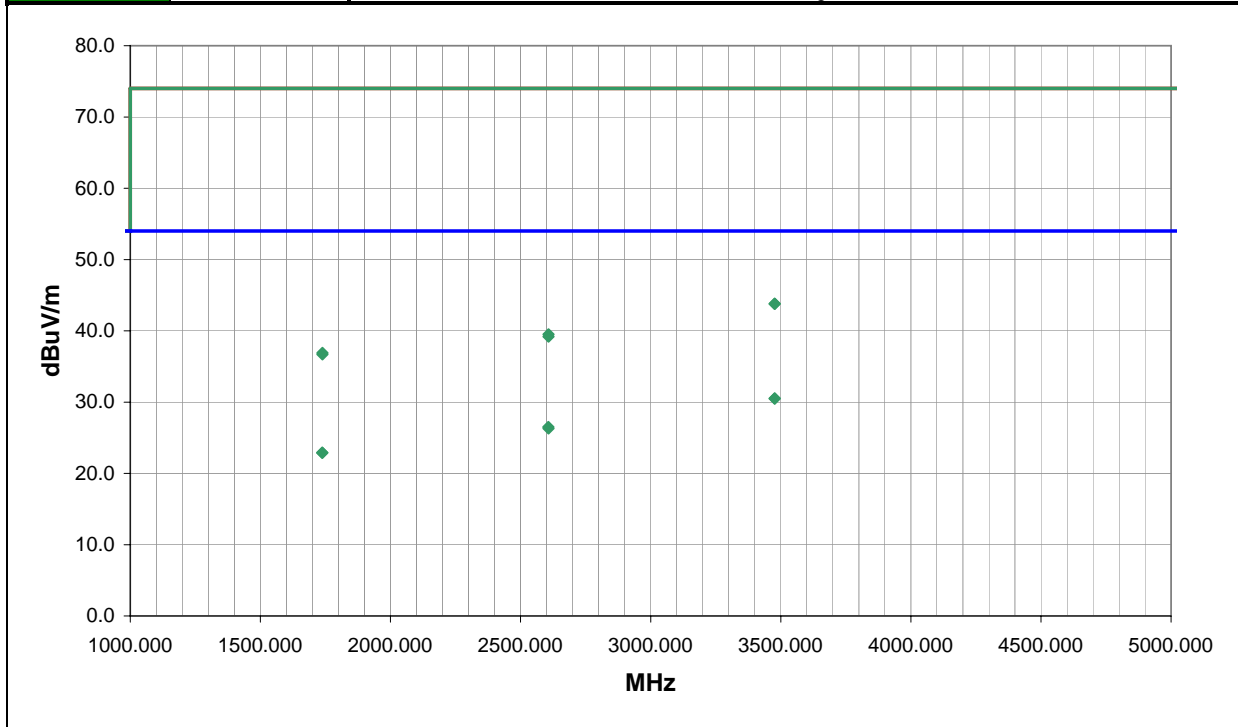
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
None

EUT OPERATING MODES
Receive mode, low channel, Cell band

DEVIATIONS FROM TEST STANDARD
No Deviations

Run #	1	<i>Rod Peloquin</i> Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
3476.505	23.8	6.7	217.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.5	54.0	-23.5
3476.948	23.8	6.7	336.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5
2607.013	23.7	2.8	219.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.5	54.0	-27.5
2607.261	23.6	2.7	263.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.3	54.0	-27.7
3476.470	37.1	6.7	217.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.8	74.0	-30.2
3476.683	37.1	6.7	336.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2
1738.001	24.1	-1.2	102.0	1.0	3.0	0.0	H-Horn	AV	0.0	22.9	54.0	-31.1
1738.147	24.1	-1.2	307.0	1.0	3.0	0.0	V-Horn	AV	0.0	22.9	54.0	-31.1
2607.250	36.7	2.8	219.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.5	74.0	-34.5
2607.135	36.4	2.8	263.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.2	74.0	-34.8
1738.640	38.1	-1.2	102.0	1.0	3.0	0.0	H-Horn	PK	0.0	36.9	74.0	-37.1
1738.317	37.9	-1.2	307.0	1.0	3.0	0.0	V-Horn	PK	0.0	36.7	74.0	-37.3

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 15.109:2007 Class B	ANSI C63.4:2003

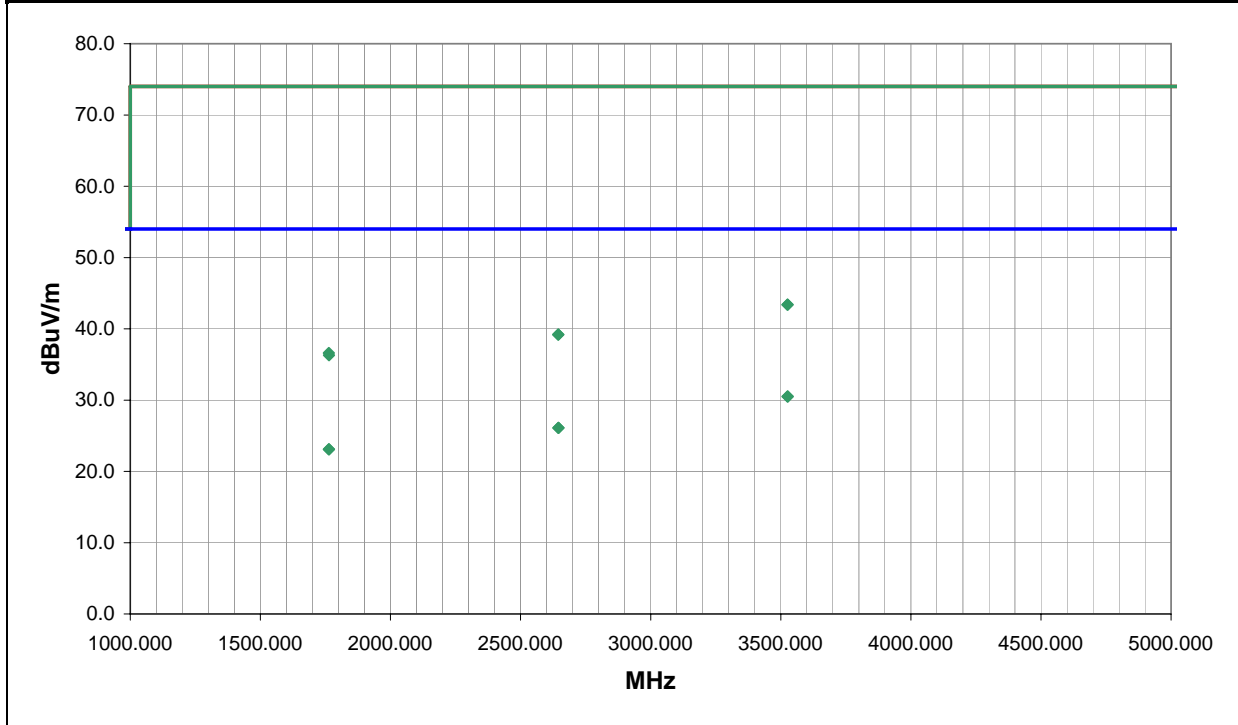
TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS
None

EUT OPERATING MODES
Receive mode, mid channel, Cell band

DEVIATIONS FROM TEST STANDARD
No Deviations

Run #	2	<i>Rod Peloquin</i> Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
3526.164	23.6	6.9	38.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.5	54.0	-23.5
3526.786	23.6	6.9	281.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5
2645.557	23.3	2.8	105.0	1.9	3.0	0.0	H-Horn	AV	0.0	26.1	54.0	-27.9
2645.584	23.3	2.8	351.0	1.9	3.0	0.0	V-Horn	AV	0.0	26.1	54.0	-27.9
3526.018	36.5	6.9	38.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6
3526.117	36.5	6.9	281.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.4	74.0	-30.6
1762.951	24.2	-1.1	117.0	1.0	3.0	0.0	V-Horn	AV	0.0	23.1	54.0	-30.9
1763.807	24.2	-1.1	356.0	1.0	3.0	0.0	H-Horn	AV	0.0	23.1	54.0	-30.9
2644.683	36.4	2.8	105.0	1.9	3.0	0.0	H-Horn	PK	0.0	39.2	74.0	-34.8
2644.778	36.4	2.8	351.0	1.9	3.0	0.0	V-Horn	PK	0.0	39.2	74.0	-34.8
1763.078	37.7	-1.1	117.0	1.0	3.0	0.0	V-Horn	PK	0.0	36.6	74.0	-37.4
1763.428	37.4	-1.1	356.0	1.0	3.0	0.0	H-Horn	PK	0.0	36.3	74.0	-37.7

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 15.109:2007 Class B	ANSI C63.4:2003	

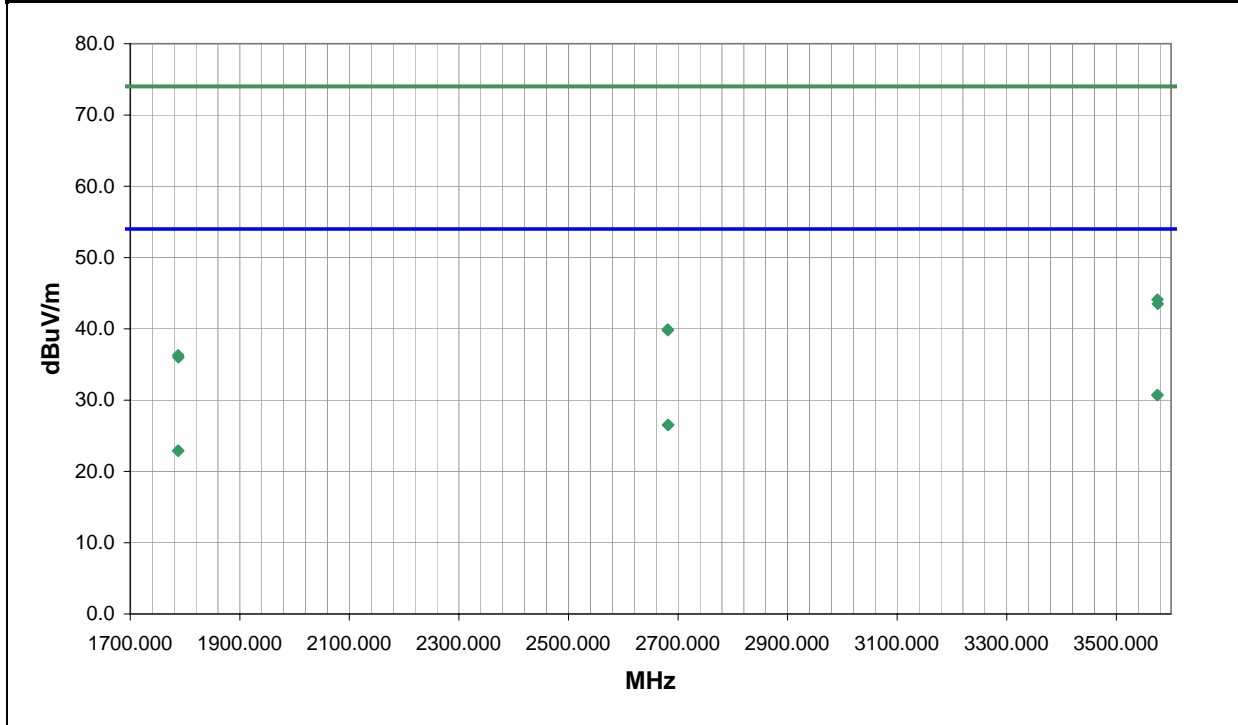
TEST PARAMETERS		
Antenna Height(s) (m)	1 - 4	Test Distance (m)
		3

COMMENTS
None

EUT OPERATING MODES
Receive mode, high channel, Cell band

DEVIATIONS FROM TEST STANDARD
No Deviations

Run #	3	<i>Rod Peloquin</i> Signature
Configuration #	3	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
3575.023	23.7	7.0	287.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.7	54.0	-23.3
3575.309	23.7	7.0	151.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.7	54.0	-23.3
2681.542	23.7	2.8	144.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.5	54.0	-27.5
2682.304	23.7	2.8	175.0	2.4	3.0	0.0	V-Horn	AV	0.0	26.5	54.0	-27.5
3575.303	37.1	7.0	151.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.1	74.0	-29.9
3575.613	36.5	7.0	287.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.5	74.0	-30.5
1787.374	23.9	-1.0	292.0	1.0	3.0	0.0	H-Horn	AV	0.0	22.9	54.0	-31.1
1787.497	23.9	-1.0	140.0	1.0	3.0	0.0	V-Horn	AV	0.0	22.9	54.0	-31.1
2681.155	37.1	2.8	144.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.9	74.0	-34.1
2681.310	37.0	2.8	175.0	2.4	3.0	0.0	V-Horn	PK	0.0	39.8	74.0	-34.2
1787.393	37.3	-1.0	292.0	1.0	3.0	0.0	H-Horn	PK	0.0	36.3	74.0	-37.7
1787.858	37.0	-1.0	140.0	1.0	3.0	0.0	V-Horn	PK	0.0	36.0	74.0	-38.0

Radiated 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

Receive: Mid Ch. 661, 1880 MHz

Receive: High Ch. 251, 848.8 MHz

Receive: Low Ch. 128, 824.2 MHz

Receive: Mid Ch. 190, 836.6 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

TRPO040 - 1) Direct connect - with antenna

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator	Coaxicom	66702 2910-20	ATO	5/25/2007	13 mo
High Pass Filter	T.T.E.	7766	HFG	2/5/2008	13 mo
Receiver	Rohde & Schwartz	ESCI	ARG	12/7/2007	13 mo
EV07 Cables		Conducted Cables	EVG	4/17/2007	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	1/4/2008	13 mo

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

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

EMC

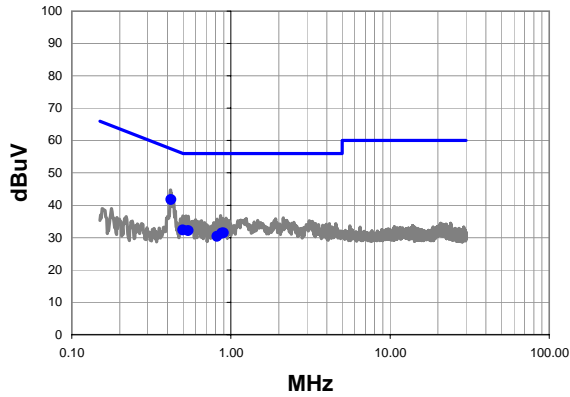
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: Mid Ch. 190, 836.6 MHz			
Deviations:	No deviations.			
Comments:	Cellular			

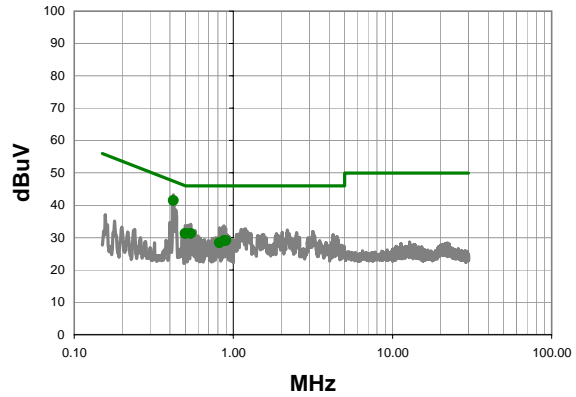
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	7	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	20.9	20.9	41.8	57.4	-15.7
0.499	11.5	20.8	32.3	56.0	-23.7
0.539	11.4	20.8	32.2	56.0	-23.8
0.899	10.9	20.6	31.5	56.0	-24.5
0.878	10.8	20.6	31.4	56.0	-24.6
0.818	9.8	20.6	30.4	56.0	-25.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	20.6	20.9	41.5	47.4	-6.0
0.539	10.5	20.8	31.3	46.0	-14.7
0.499	10.4	20.8	31.2	46.0	-14.8
0.878	8.5	20.6	29.1	46.0	-16.9
0.899	8.5	20.6	29.1	46.0	-16.9
0.818	7.8	20.6	28.4	46.0	-17.6

EMC

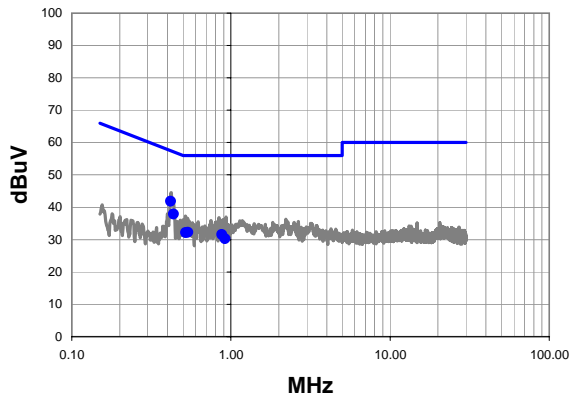
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	 Tested by: Kyle Holgate
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: Mid Ch. 190, 836.6 MHz			
Deviations:	No deviations.			
Comments:	Cellular			

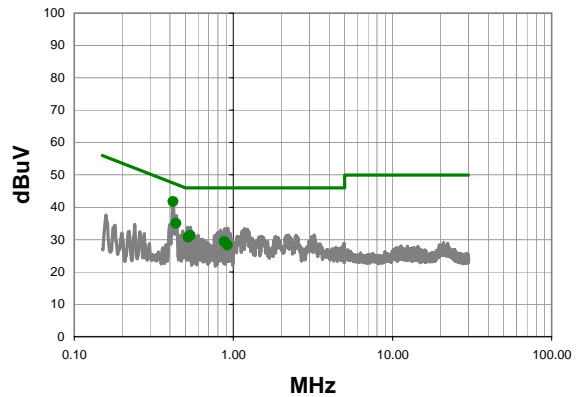
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	8	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.419	21.0	20.9	41.9	57.5	-15.6
0.435	17.0	20.9	37.9	57.2	-19.3
0.538	11.5	20.8	32.3	56.0	-23.7
0.520	11.3	20.8	32.1	56.0	-23.9
0.879	11.0	20.6	31.6	56.0	-24.4
0.919	9.7	20.6	30.3	56.0	-25.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.419	20.9	20.9	41.8	47.5	-5.7
0.435	14.2	20.9	35.1	47.2	-12.1
0.538	10.5	20.8	31.3	46.0	-14.7
0.520	10.0	20.8	30.8	46.0	-15.2
0.879	8.8	20.6	29.4	46.0	-16.6
0.919	7.7	20.6	28.3	46.0	-17.7

EMC

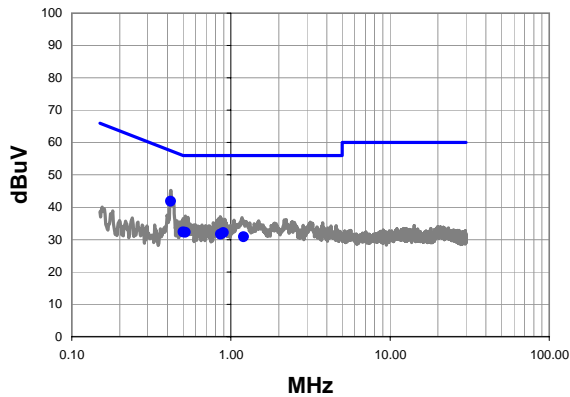
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: Low Ch. 128, 824.2 MHz			
Deviations:	No deviations.			
Comments:	Cellular			

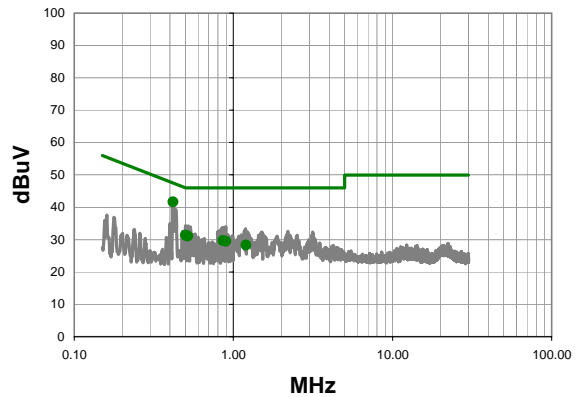
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	9	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.419	21.0	20.9	41.9	57.5	-15.6
0.500	11.5	20.8	32.3	56.0	-23.7
0.517	11.4	20.8	32.2	56.0	-23.8
0.896	11.6	20.6	32.2	56.0	-23.8
0.861	11.1	20.6	31.7	56.0	-24.3
1.200	10.4	20.5	30.9	56.0	-25.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.419	20.8	20.9	41.7	47.5	-5.8
0.500	10.5	20.8	31.3	46.0	-14.7
0.517	10.3	20.8	31.1	46.0	-14.9
0.861	9.1	20.6	29.7	46.0	-16.3
0.896	8.9	20.6	29.5	46.0	-16.5
1.200	7.8	20.5	28.3	46.0	-17.7

EMC

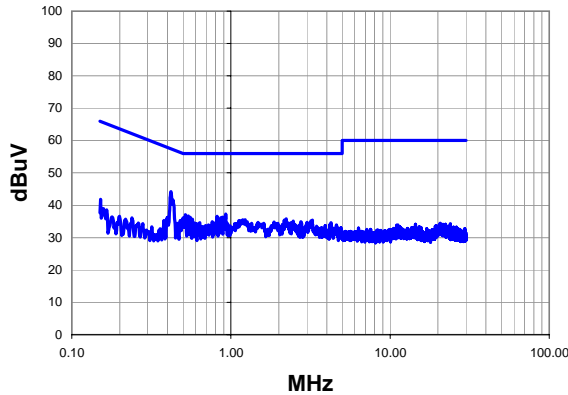
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	 Tested by: Kyle Holgate
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: Low Ch. 128, 824.2 MHz			
Deviations:	No deviations.			
Comments:	Cellular			

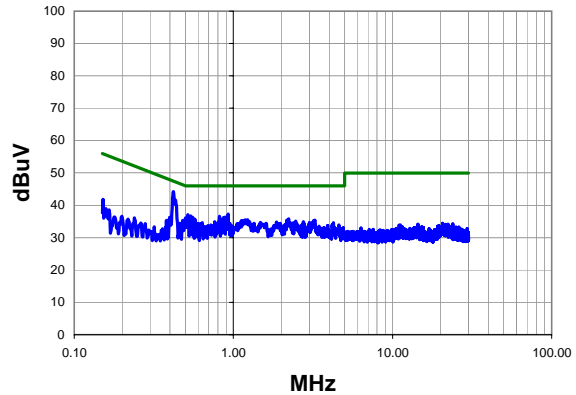
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	10	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	23.4	20.9	44.3	57.4	-13.2
0.927	16.7	20.5	37.2	56.0	-18.8
0.517	16.3	20.8	37.1	56.0	-18.9
0.539	15.9	20.8	36.7	56.0	-19.3
0.816	16.0	20.6	36.6	56.0	-19.4
0.555	15.5	20.8	36.3	56.0	-19.7
0.879	15.7	20.6	36.3	56.0	-19.7
0.895	15.7	20.6	36.3	56.0	-19.7
0.500	15.3	20.8	36.1	56.0	-19.9
0.862	15.5	20.6	36.1	56.0	-19.9
2.224	15.3	20.5	35.8	56.0	-20.2
0.572	14.9	20.8	35.7	56.0	-20.3
1.184	15.0	20.5	35.5	56.0	-20.5
0.833	14.8	20.6	35.4	56.0	-20.6
3.248	14.9	20.5	35.4	56.0	-20.6
2.464	14.6	20.5	35.1	56.0	-20.9
0.482	14.5	20.8	35.3	56.3	-21.0
0.762	14.3	20.6	34.9	56.0	-21.1
2.752	14.4	20.5	34.9	56.0	-21.1
1.864	14.3	20.5	34.8	56.0	-21.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	23.4	20.9	44.3	47.4	-3.2
0.927	16.7	20.5	37.2	46.0	-8.8
0.517	16.3	20.8	37.1	46.0	-8.9
0.539	15.9	20.8	36.7	46.0	-9.3
0.816	16.0	20.6	36.6	46.0	-9.4
0.555	15.5	20.8	36.3	46.0	-9.7
0.879	15.7	20.6	36.3	46.0	-9.7
0.895	15.7	20.6	36.3	46.0	-9.7
0.500	15.3	20.8	36.1	46.0	-9.9
0.862	15.5	20.6	36.1	46.0	-9.9
2.224	15.3	20.5	35.8	46.0	-10.2
0.572	14.9	20.8	35.7	46.0	-10.3
1.184	15.0	20.5	35.5	46.0	-10.5
0.833	14.8	20.6	35.4	46.0	-10.6
3.248	14.9	20.5	35.4	46.0	-10.6
2.464	14.6	20.5	35.1	46.0	-10.9
0.482	14.5	20.8	35.3	46.3	-11.0
0.762	14.3	20.6	34.9	46.0	-11.1
2.752	14.4	20.5	34.9	46.0	-11.1
1.864	14.3	20.5	34.8	46.0	-11.2

EMC

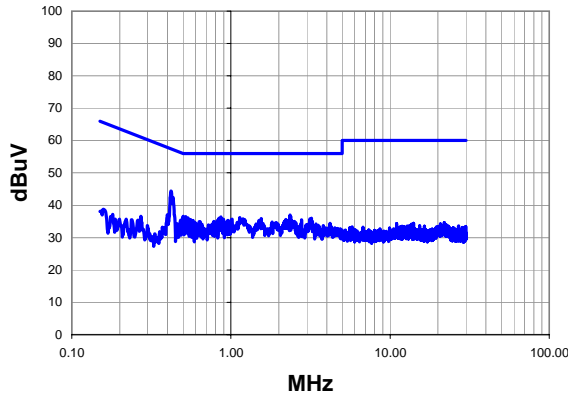
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	 Tested by: Kyle Holgate
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: High Ch. 251, 848.8 MHz			
Deviations:	No deviations.			
Comments:	Cellular			

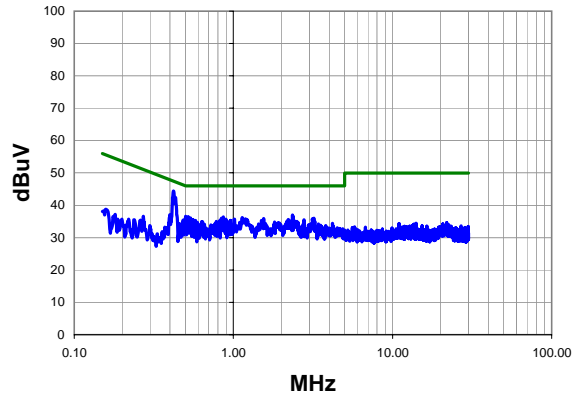
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	11	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	23.5	20.9	44.4	57.4	-13.1
2.352	16.5	20.5	37.0	56.0	-19.0
0.500	15.8	20.8	36.6	56.0	-19.4
2.368	16.1	20.5	36.6	56.0	-19.4
0.519	15.7	20.8	36.5	56.0	-19.5
0.864	15.8	20.6	36.4	56.0	-19.6
1.136	15.7	20.5	36.2	56.0	-19.8
0.536	15.3	20.8	36.1	56.0	-19.9
0.840	15.4	20.6	36.0	56.0	-20.0
3.200	15.5	20.5	36.0	56.0	-20.0
1.552	15.4	20.5	35.9	56.0	-20.1
1.016	15.2	20.5	35.7	56.0	-20.3
0.876	15.1	20.6	35.7	56.0	-20.3
0.896	15.1	20.6	35.7	56.0	-20.3
2.216	15.1	20.5	35.6	56.0	-20.4
0.558	14.8	20.8	35.6	56.0	-20.4
2.784	15.0	20.5	35.5	56.0	-20.5
0.957	14.8	20.5	35.3	56.0	-20.7
0.821	14.7	20.6	35.3	56.0	-20.7
2.408	14.8	20.5	35.3	56.0	-20.7

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	23.5	20.9	44.4	47.4	-3.1
2.352	16.5	20.5	37.0	46.0	-9.0
0.500	15.8	20.8	36.6	46.0	-9.4
2.368	16.1	20.5	36.6	46.0	-9.4
0.519	15.7	20.8	36.5	46.0	-9.5
0.864	15.8	20.6	36.4	46.0	-9.6
1.136	15.7	20.5	36.2	46.0	-9.8
0.536	15.3	20.8	36.1	46.0	-9.9
0.840	15.4	20.6	36.0	46.0	-10.0
3.200	15.5	20.5	36.0	46.0	-10.0
1.552	15.4	20.5	35.9	46.0	-10.1
1.016	15.2	20.5	35.7	46.0	-10.3
0.876	15.1	20.6	35.7	46.0	-10.3
0.896	15.1	20.6	35.7	46.0	-10.3
2.216	15.1	20.5	35.6	46.0	-10.4
0.558	14.8	20.8	35.6	46.0	-10.4
2.784	15.0	20.5	35.5	46.0	-10.5
0.957	14.8	20.5	35.3	46.0	-10.7
0.821	14.7	20.6	35.3	46.0	-10.7
2.408	14.8	20.5	35.3	46.0	-10.7

EMC

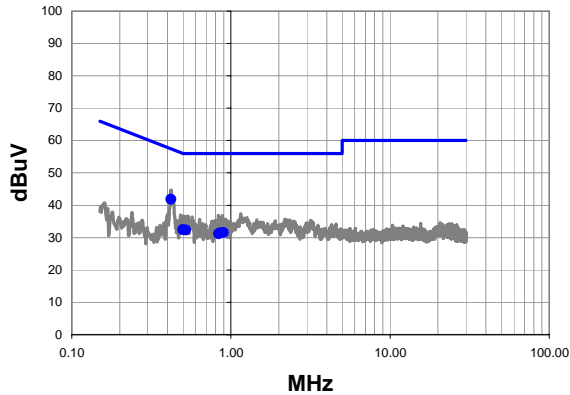
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	 Tested by: Kyle Holgate
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: High Ch. 251, 848.8 MHz			
Deviations:	No deviations.			
Comments:	None			

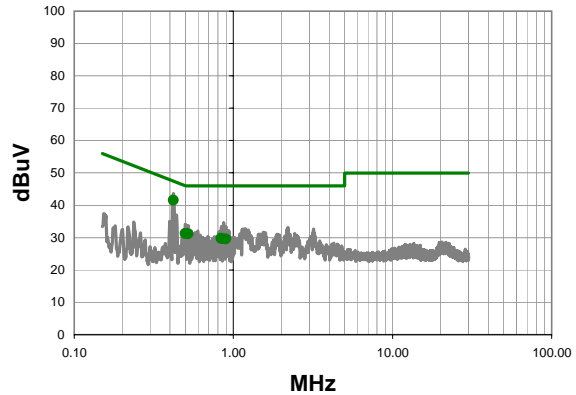
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	12	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	21.0	20.9	41.9	57.4	-15.6
0.499	11.6	20.8	32.4	56.0	-23.6
0.519	11.5	20.8	32.3	56.0	-23.7
0.896	11.0	20.6	31.6	56.0	-24.4
0.857	10.9	20.6	31.5	56.0	-24.5
0.838	10.6	20.6	31.2	56.0	-24.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	20.7	20.9	41.6	47.4	-5.9
0.519	10.4	20.8	31.2	46.0	-14.8
0.499	10.4	20.8	31.2	46.0	-14.8
0.838	9.2	20.6	29.8	46.0	-16.2
0.857	9.1	20.6	29.7	46.0	-16.3
0.896	9.0	20.6	29.6	46.0	-16.4

EMC

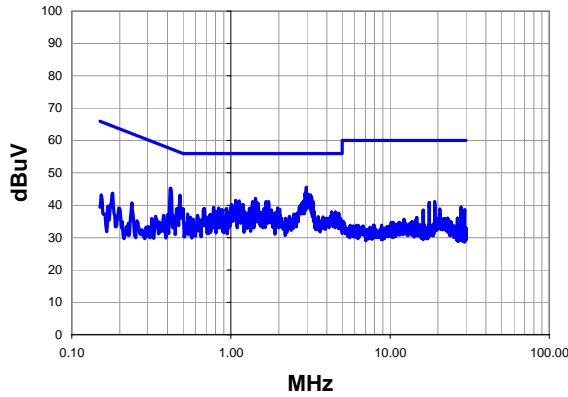
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	 Tested by: Kyle Holgate
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: Mid Ch. 661, 1880 MHz			
Deviations:	No deviations.			
Comments:	PCS			

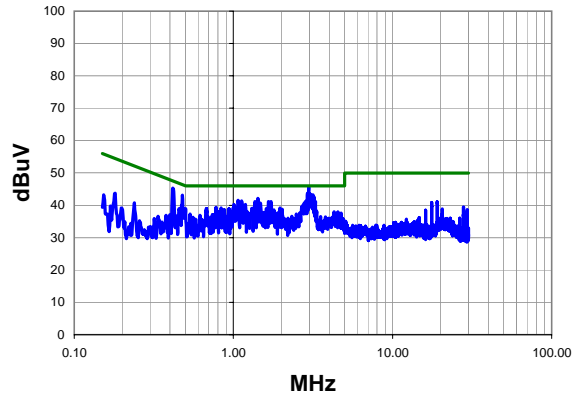
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	19	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
2.976	25.1	20.5	45.6	56.0	-10.4
0.417	24.4	20.9	45.3	57.5	-12.2
2.920	23.2	20.5	43.7	56.0	-12.3
3.032	23.0	20.5	43.5	56.0	-12.5
3.168	22.7	20.5	43.2	56.0	-12.8
0.478	22.3	20.8	43.1	56.4	-13.2
3.208	22.1	20.5	42.6	56.0	-13.4
1.424	21.6	20.5	42.1	56.0	-13.9
1.072	21.0	20.5	41.5	56.0	-14.5
1.128	20.8	20.5	41.3	56.0	-14.7
2.872	20.8	20.5	41.3	56.0	-14.7
3.280	20.7	20.5	41.2	56.0	-14.8
1.368	20.6	20.5	41.1	56.0	-14.9
1.664	20.6	20.5	41.1	56.0	-14.9
1.728	20.6	20.5	41.1	56.0	-14.9
2.792	20.3	20.5	40.8	56.0	-15.2
1.480	20.2	20.5	40.7	56.0	-15.3
1.008	19.8	20.5	40.3	56.0	-15.7
1.192	19.8	20.5	40.3	56.0	-15.7
0.777	18.7	20.6	39.3	56.0	-16.7

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
2.976	25.1	20.5	45.6	46.0	-0.4
0.417	24.4	20.9	45.3	47.5	-2.2
2.920	23.2	20.5	43.7	46.0	-2.3
3.032	23.0	20.5	43.5	46.0	-2.5
3.168	22.7	20.5	43.2	46.0	-2.8
0.478	22.3	20.8	43.1	46.4	-3.2
3.208	22.1	20.5	42.6	46.0	-3.4
1.424	21.6	20.5	42.1	46.0	-3.9
1.072	21.0	20.5	41.5	46.0	-4.5
1.128	20.8	20.5	41.3	46.0	-4.7
2.872	20.8	20.5	41.3	46.0	-4.7
3.280	20.7	20.5	41.2	46.0	-4.8
1.368	20.6	20.5	41.1	46.0	-4.9
1.664	20.6	20.5	41.1	46.0	-4.9
1.728	20.6	20.5	41.1	46.0	-4.9
2.792	20.3	20.5	40.8	46.0	-5.2
1.480	20.2	20.5	40.7	46.0	-5.3
1.008	19.8	20.5	40.3	46.0	-5.7
1.192	19.8	20.5	40.3	46.0	-5.7
0.777	18.7	20.6	39.3	46.0	-6.7

EMC

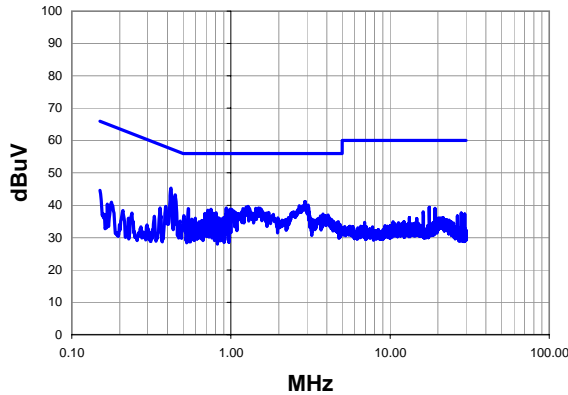
CONDUCTED EMISSIONS

Work Order:	TRPO0040	Date:	04/23/08	 Tested by: Kyle Holgate
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	29	
Serial Number:	R1196	Barometric Pres.:	1009.1	
EUT:	Siemens MC75 installed in TDS Nomad			
Configuration:	1 - Direct connect - with antenna			
Customer:	Tripod Data Systems, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Receive: Mid Ch. 661, 1880 MHz			
Deviations:	No deviations.			
Comments:	PCS			

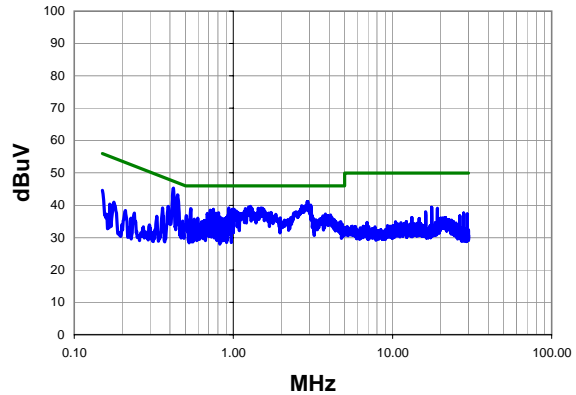
Test Specifications FCC 15.107:2007	Class B	Test Method ANSI C63.4:2003
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Run #	20	Line: High Line	Ext. Attenuation: 20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	24.4	20.9	45.3	57.4	-12.2
0.446	22.4	20.8	43.2	57.0	-13.7
2.912	20.7	20.5	41.2	56.0	-14.8
1.280	19.2	20.5	39.7	56.0	-16.3
3.080	18.9	20.5	39.4	56.0	-16.6
1.496	18.7	20.5	39.2	56.0	-16.8
0.934	18.6	20.5	39.1	56.0	-16.9
1.304	18.6	20.5	39.1	56.0	-16.9
1.432	18.6	20.5	39.1	56.0	-16.9
1.192	18.5	20.5	39.0	56.0	-17.0
0.539	18.2	20.8	39.0	56.0	-17.0
0.986	18.3	20.5	38.8	56.0	-17.2
1.008	18.3	20.5	38.8	56.0	-17.2
0.748	18.1	20.7	38.8	56.0	-17.2
0.716	17.8	20.7	38.5	56.0	-17.5
0.961	17.7	20.5	38.2	56.0	-17.8
1.168	17.5	20.5	38.0	56.0	-18.0
1.072	17.3	20.5	37.8	56.0	-18.2
1.728	17.3	20.5	37.8	56.0	-18.2
0.806	17.1	20.6	37.7	56.0	-18.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted	Spec. Limit	Compared to Spec. (dB)
0.420	24.4	20.9	45.3	47.4	-2.2
0.446	22.4	20.8	43.2	47.0	-3.7
2.912	20.7	20.5	41.2	46.0	-4.8
1.280	19.2	20.5	39.7	46.0	-6.3
3.080	18.9	20.5	39.4	46.0	-6.6
1.496	18.7	20.5	39.2	46.0	-6.8
0.934	18.6	20.5	39.1	46.0	-6.9
1.304	18.6	20.5	39.1	46.0	-6.9
1.432	18.6	20.5	39.1	46.0	-6.9
1.192	18.5	20.5	39.0	46.0	-7.0
0.539	18.2	20.8	39.0	46.0	-7.0
0.986	18.3	20.5	38.8	46.0	-7.2
1.008	18.3	20.5	38.8	46.0	-7.2
0.748	18.1	20.7	38.8	46.0	-7.2
0.716	17.8	20.7	38.5	46.0	-7.5
0.961	17.7	20.5	38.2	46.0	-7.8
1.168	17.5	20.5	38.0	46.0	-8.0
1.072	17.3	20.5	37.8	46.0	-8.2
1.728	17.3	20.5	37.8	46.0	-8.2
0.806	17.1	20.6	37.7	46.0	-8.3

