



MET Laboratories, Inc. *Safety Certification - EMI - Telecom Environmental Simulation*

914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230-3432 • PHONE (410) 354-3300 • FAX (410) 354-3313

August 31, 2006

Spectrum Management, L.L.C.
2545 Tarpley Road
Carrollton, TX 75006

Dear Jerry W. Culpepper,

Enclosed is the EMC test report for the Spectrum Management, L.L.C., TracPac C. The Spectrum Management, L.L.C., TracPac C was tested to the requirements of the FCC Certification rules under Title 47 of the CFR Part 24 Subpart E for Broadband PCS Devices.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,

MET LABORATORIES, INC.

Angela D. Brown
Documentation Department

Reference: (\Spectrum Management, L.L.C.\ EMC19678-FCC24)

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914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230-3432 • PHONE (410) 354-3300 • FAX (410) 354-3313

Electromagnetic Compatibility Test Report

For the

**Spectrum Management, L.L.C.
TracPac C**

Tested under

**FCC Certification Rules
Title 47 of the CFR, Part 24 Subpart E for Broadband PCS Devices,**

MET Report: 19678-FCC24

August 31, 2006

Prepared For:

**Spectrum Management, L.L.C.
2545 Tarpley Road
Carrollton, TX 75006**

Prepared By:
MET Laboratories, Inc.
914 W. Patapsco Avenue
Baltimore, MD 212230



Spectrum Management, L.L.C.
TracPac C
FCC ID: 09EQ2438

CFR Title 47 Part 24 Subpart E

Electromagnetic Compatibility Test Report

For the

**Spectrum Management, L.L.C.
TracPac C**

Tested Under

**FCC Certification Rules
Title 47 of the CFR, Part 24 Subpart E for Broadband PCS Devices,**

Len Knight
Project Engineer, Electromagnetic Compatibility Lab

Angela D. Brown
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Part 24 Subpart E and Part 15 Subpart B of the FCC Rules under normal use and maintenance.

Kevin A. Mehaffey
Manager, Electromagnetic Compatibility Lab



Spectrum Management, L.L.C.
TracPac C
FCC ID: O9EQ2438

CFR Title 47 Part 24 Subpart E

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	August 31, 2006	Initial Issue.



Table of Contents

1. Requirements Summary	1
2. Equipment Configuration.....	2
2.1. Overview	2
2.2. Test Site	3
2.3. Description of Test Sample	3
2.4. Equipment Configuration	6
2.5. Mode of Operation	6
2.6. Modifications	6
2.6.1. Modifications to EUT	6
2.6.2. Modifications to Test Standard	6
2.7. Disposition of EUT	6
3. Electromagnetic Compatibility Criteria for Broadband PCS Devices	7
3.1. RF Power Output	7
3.2. Spurious Emissions	9
3.2.1. Radiated Spurious Emissions	9
4. Test Equipment	30
5. Compliance Information.....	31
5.1. Certification Information	31
5.2. Label and User's Manual Information	35



List of Tables

Table 1 Requirements Summary of EMC Part 24 Compliance Testing	1
Table 2. Equipment Configuration	6
Table 3. E.I.R.P. of Radiated Spurious Emissions	28

List of Figures

Figure 1. Functional Block Diagram of TracPac C	4
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List of Photographs

Photograph 1. Test Sample, Front and Back	5
Photograph 2. EUT Test Setup for Part 24 - Broadband PCS Devices	8
Photograph 3. Spurious Emissions Test Setup	29

List of Plots

Plot 1. Spurious Emissions Scan, 1 to 1.8 GHz	11
Plot 2. Spurious Emissions Scan, Carrier Amplitude Horizontal	12
Plot 3. Spurious Emissions Scan, Carrier Amplitude Vertical	13
Plot 4. Spurious Emissions Scan – 2 to 3 GHz Horizontal	14
Plot 5. Spurious Emissions Scan – 2 to 3 GHz Vertical	15
Plot 6. Spurious Emissions Scan – 3 to 4 GHz Horizontal	16
Plot 7. Spurious Emissions Scan – 3 to 4 GHz Vertical	17
Plot 8. Spurious Emissions Scan – 4 to 5 GHz Horizontal	18
Plot 9. Spurious Emissions Scan – 4 to 5 GHz Vertical	19
Plot 10. Spurious Emissions Scan – 5 to 7 GHz Horizontal	20
Plot 11. Spurious Emissions Scan – 5 to 7 GHz Vertical	21
Plot 12. Spurious Emissions Scan – 7 to 10 GHz Horizontal	22
Plot 13. Spurious Emissions Scan – 7 to 10 GHz Vertical	23
Plot 14. Spurious Emissions Scan – 10 to 18 GHz Horizontal	24
Plot 15. Spurious Emissions Scan – 10 to 18 GHz Vertical	25
Plot 16. Spurious Emissions Scan – 18 to 20 GHz Horizontal	26
Plot 17. Spurious Emissions Scan – 18 to 20 GHz Vertical	27



List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
d	Measurement Distance
dB	Deci Bels
dBμV	Deci-Bels above one micro Volt
dBμV/m	Deci-Bels above one micro Volt per meter
DC	Direct Current
DCF	Distance Correction Factor
E	Electric Field
EUT	Equipment Under Test
e.i.r.p	equivalent isotropically radiated power
f	Frequency
FCC	Federal Communications Commission
GHz	Giga Hertz
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kV	kilo Volt
LISN	Line Impedance Stabilization Network
MHz	MegaHertz
RF	Radio Frequency
RMS	Root-Mean-Square
V/m	Volts per meter



1.0 Requirements Summary

Reference	Description	Compliance
2.1046; Part 24 Subpart E §24.232 (a), (c)	RF Power Output	Complies
2.1053; 24.238 (a)	Radiated Spurious Emissions	Complies

Table 1 Requirements Summary of EMC Part 24 Compliance Testing



Spectrum Management, L.L.C.
TracPac C
FCC ID: O9EQ2438F-M

Electromagnetic Compatibility
Equipment Configuration
CFR Title 47 Part 24 Subpart E

2.0 Equipment Configuration

2.1 Overview

An EMC evaluation to determine compliance of the Spectrum Management, L.L.C. TracPac C with the requirements of Part 24 Subpart E was performed. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the Spectrum Management, L.L.C. TracPac C. Spectrum Management, L.L.C. should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the TracPac C has been **permanently** discontinued.

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 24 Subpart E, in accordance with purchase order number 9900005304. All tests were conducted using measurement procedure *ANSI C63.4-1992*.

Type of Submission/Rule:	Part 24 Class II Permissive Change
Model(s) Tested:	TracPac C
Model(s) Covered:	TracPac C
EUT Specifications:	Primary Power: 3.7 V Lithium Ion Rechargeable Battery
	FCC ID O9EQ2438F-M
	Emission Designator: 1M25F9W (CDMA)
	RF Power Output: Watts EIRP: 0.322 Watts (1851.5 MHz)
Analysis:	The results obtained relate only to the item(s) tested.
Evaluated by:	Len Knight
Date(s):	August 31, 2006



2.2 Test Site

All testing was performed at MET Laboratories, Inc., 914 W. Patapsco Avenue Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a semi-anechoic chamber. In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories. In accordance with §2.948(d), MET Laboratories has been accredited by the National Voluntary Laboratory Accreditation Program (Lab Code: 100273-0).

2.3 Description of Test Sample

The TracPac C, Equipment Under Test (EUT) for the remainder of this document, is powered from a 3.7 V Lithium Ion Rechargeable Battery supply.

The TracPac Transmitter is a device used to track stolen currency. It is typically inserted into a stack of bills which would reside in a bank teller's drawer. The stack of currency is then placed over a magnet which puts the unit into a sleep mode, and will be activated if the money is removed from the magnet. Once activated, a CDMA module operating in the PCS1900 band places a data call to a central reporting station. Its location can be provided by either the data from the surrounding cellular towers, or from location based data from the cellular carrier. Also part of the device is a VHF transmitter which is also activated once removed from the magnet. It transmits an RF signal which can be detected by mobile receivers to provide an additional method to locate the device.

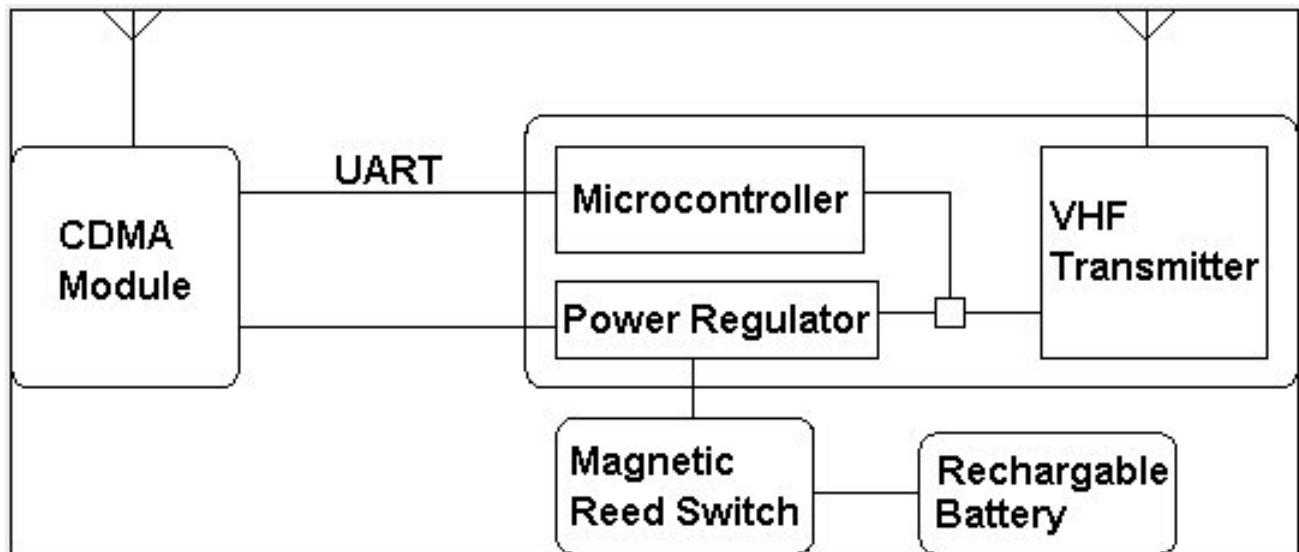


Figure 1. Functional Block Diagram of TracPac C



Spectrum Management, L.L.C.
TracPac C
FCC ID: O9EQ2438F-M

Electromagnetic Compatibility
Equipment Configuration
CFR Title 47 Part 24 Subpart E



Photograph 1. Test Sample, Front and Back



2.4 Equipment Configuration

The EUT was set up as outlined in Figure 1.

Name / Description	Manufacturer	Part Number	Serial Number
CDMA Module	Wavecom, Inc.	Q2438F	24600857988
VHF Transmitter	Spectrum Management, LLC	Trac Pac - 1531	V6915
Rechargeable Battery	Ultralife	UBP005	040201912
Rechargeable Battery	Ultralife	UBP005	041402559

Table 2. Equipment Configuration

2.5 Mode of Operation

The VHF transmitter, which is an LPRS Transmitter operating at 216 MHz, was set at Channel 20. It was set for test mode which means it was continuously transmitting. The CDMA module was controlled by a Rohde & Schwarz CMU 200 Base Station Simulator. The CDMA module, which was specifically configured for the Sprint network, was set and operated at PCS Channel 25. Measurements we made while both transmitters were operating at their maximum rated power.

2.6 Modifications

2.9.1 Modifications to EUT

No modifications were made to the EUT.

2.9.2 Modifications to Test Standard

No modifications were made to the test standard.

2.10 Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Spectrum Management, L.L.C. upon completion of testing.



3.0 Electromagnetic Compatibility Criteria for Broadband PCS Devices

3.1 RF Power Output

Test Requirement(s):

§ 2.1046 Power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements as specified. The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

§ 24.232 (B): Mobile/portable stations are limited to 2 watts e.i.r.p. peak power

§ 24.232 (c): Peak transmit-power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

Test Procedures:

The EUT was placed on a non-conductive table 0.8 meters above the ground plane in a semi-anechoic chamber. A measurement horn antenna was positioned at a distance of 3 meters from the EUT. A signaling antenna from the base station simulator was present but not in the beamwidth of the measurement antenna. For each point of measurement, the EUT was rotated, in order to find the maximum spurious emissions. Measurements were made using a peak detector with a 1 GHz resolution bandwidth.

Antenna substitution was used to determine the E.R.P. of each EUT. The EUT was replaced with a dipole antenna connected to a signal generator set to the frequency of each carrier. The amplitude on the signal generator was set so that the field strength measure was equivalent to the field strength of the EUT's emissions. The cable loss and antenna gain were then used to calculate the ERP of the EUT at each fundamental channel.

Test Results:

The EUT complied with the requirement(s) of this section.

Frequency (GHz)	Antenna Polarity (H/V)	Peak Spectrum Analyzer Measurement (dBuV)	Signal Generator (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)
1.8515	H	90.55	15.07	1.7	8	21.37
1.8515	V	92.63	15.25	1.7	8.12	21.67

Test Engineer(s): Len Knight

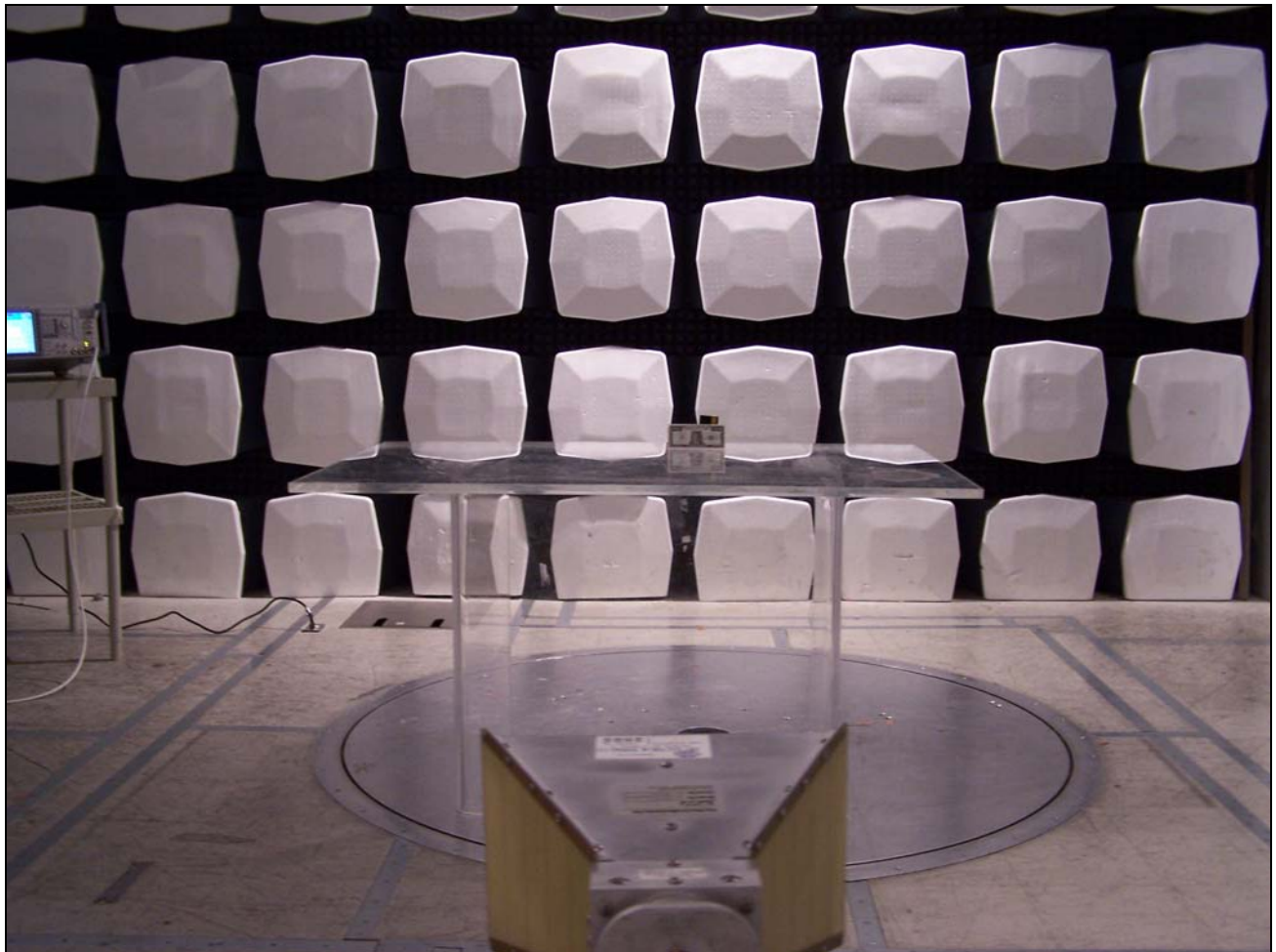
Test Date(s): 7/31/2006



Spectrum Management, L.L.C.
TracPac C
FCC ID: O9EQ2438F-M

Electromagnetic Compatibility
Criteria for Broadband PCS Devices
CFR Title 47 Part 24 Subpart E

TracPac C Part 24 Test Setup



Photograph 2. EUT Test Setup for Part 24 - Broadband PCS Devices



3.2 Spurious Emissions

3.2.1 Radiated Spurious Emissions

Test Requirement(s): § 2.1053 (a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission.

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

Test Procedures:

- a) As required by §2.1053, field strength of spurious radiation measurements were made in accordance with the general procedures of *ANSI C63.4-1992 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"*.
- b) Preliminary radiated emission measurements were performed inside a semi-anechoic chamber. The frequency list from the measurements was used as a guide for making the EIRP measurements.
- c) The unit was scanned over the frequency range of the carrier to 20 GHz.
- d) The Radiated Spurious Emissions Limit is obtained by the following:
- e) Based on an output power (as measured at the output of the Amplifier) of 1.0 watts:

$$P_o = 1.0 \text{ W}$$

-the radiated power level of all spurious emissions must be attenuated by at least $43 + 10\log(P_o)$ below P_o , yielding:

$$P_o - [43 + 10\log(P_o)] = -13\text{dBm}$$

- f) For EIRP Substitution Method, the EUT was replaced with a horn antenna, which was driven by a signal generator, whose level was adjusted to obtain the same level as received via the radiated method.
- g) EIRP is calculated by adding the gain of the horn antenna to the level on the signal generator.
- h) Measurements were made according to the Substitution Method of *ANSI/TIA/EIA-603-A*.



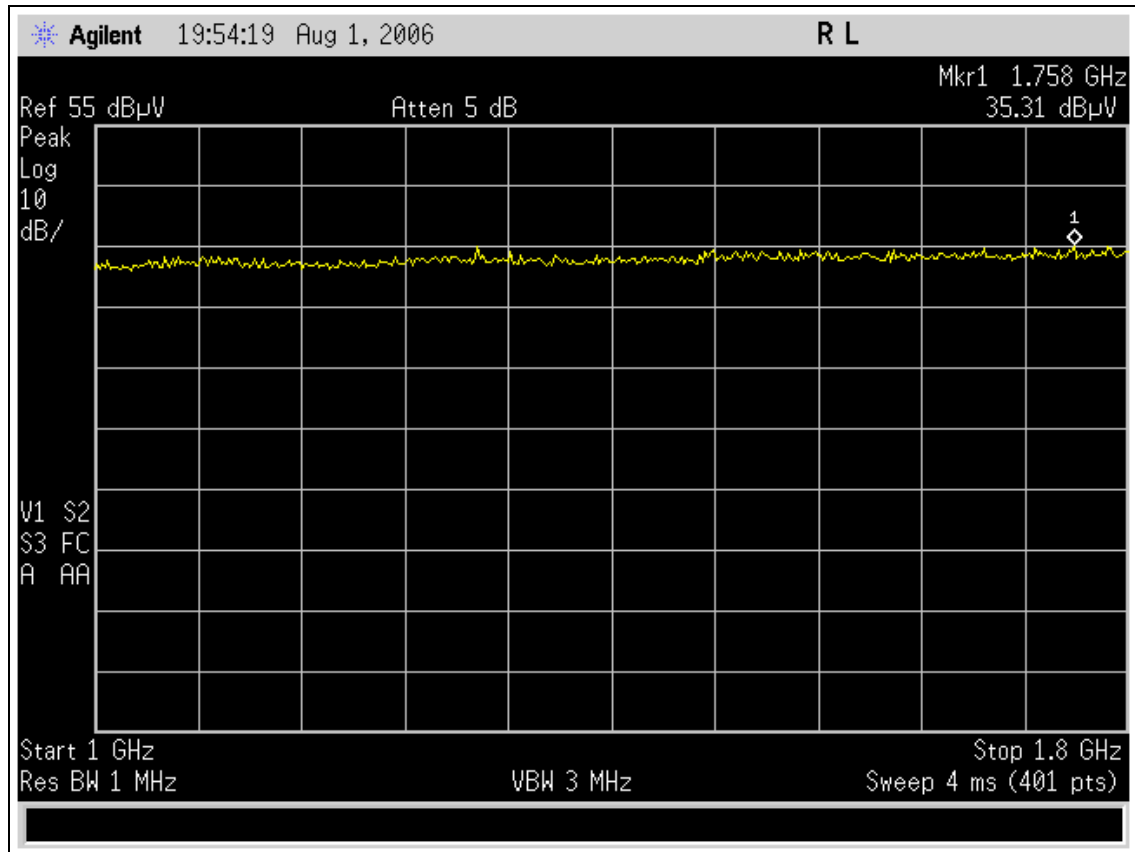
Spectrum Management, L.L.C.
TracPac C
FCC ID: O9EQ2438F-M

Electromagnetic Compatibility
Criteria for Broadband PCS Devices
CFR Title 47 Part 24 Subpart E

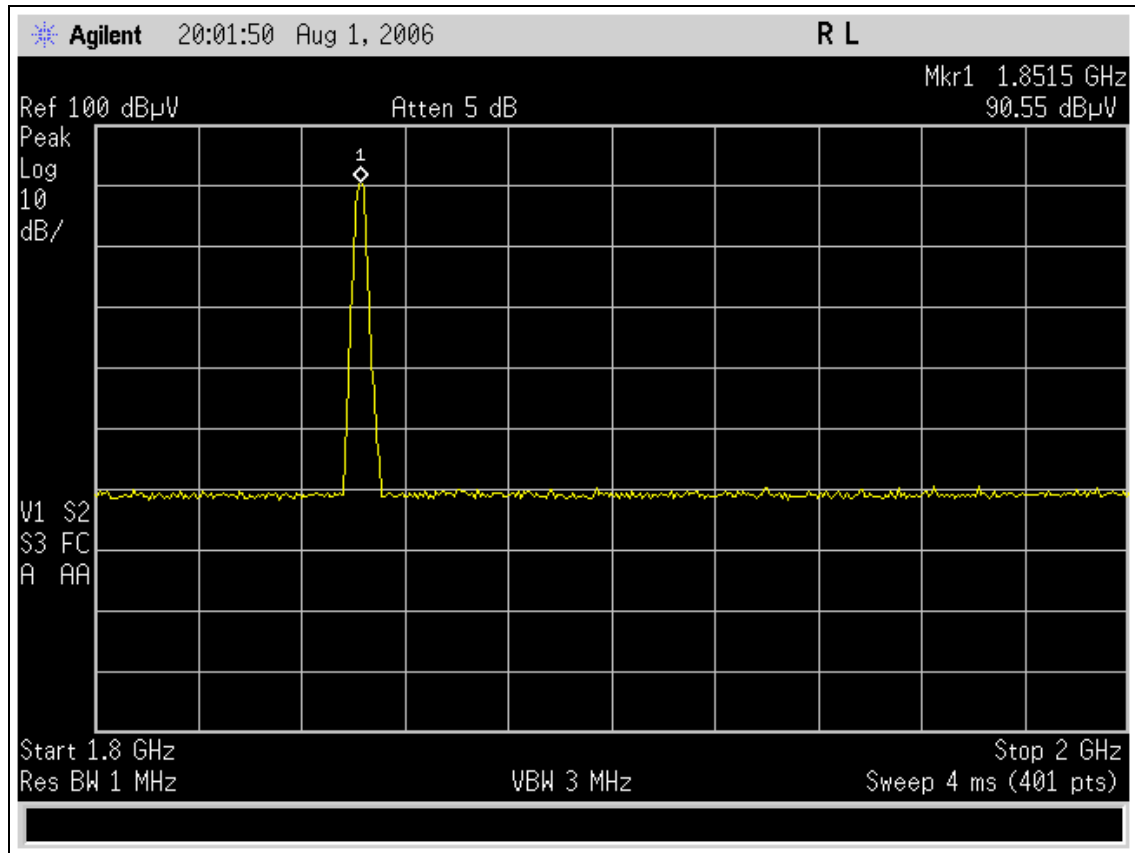
Test Results: The EUT complied with the requirement(s) of this section.

Test Engineer: Len Knight

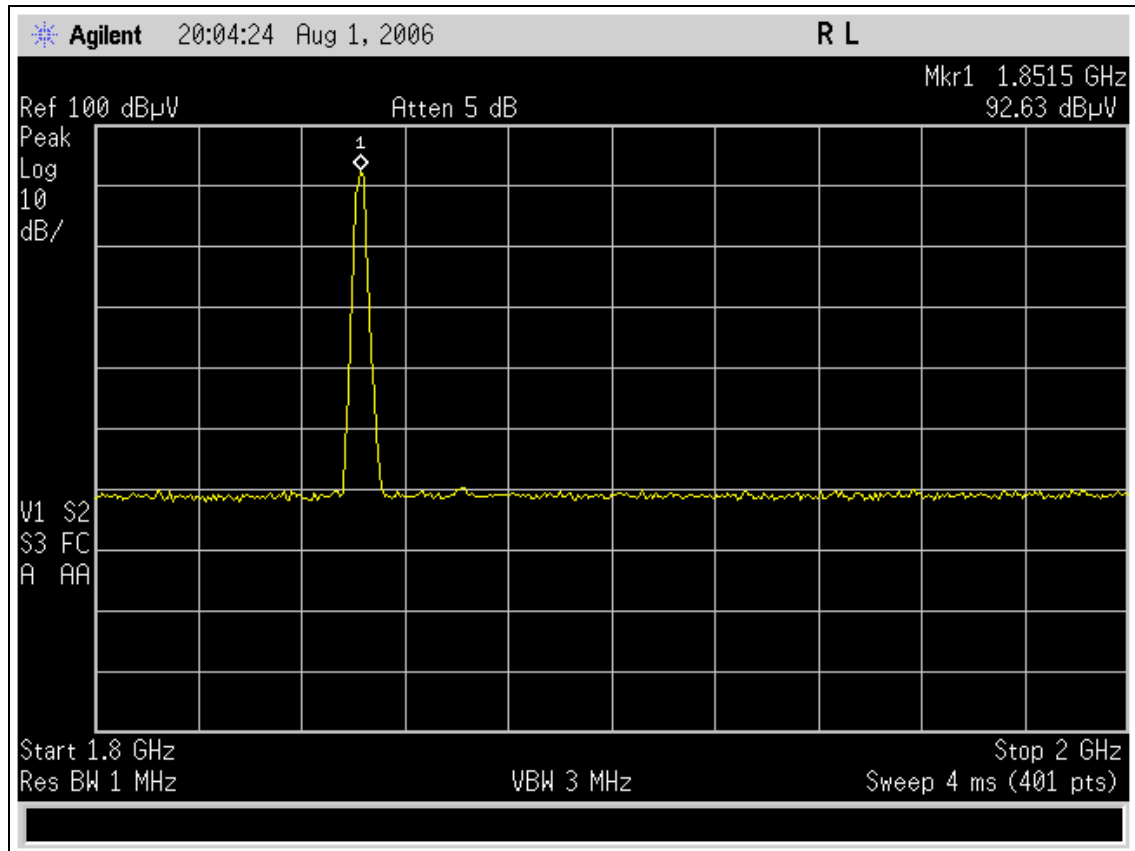
Test Date(s): 7/31/2006



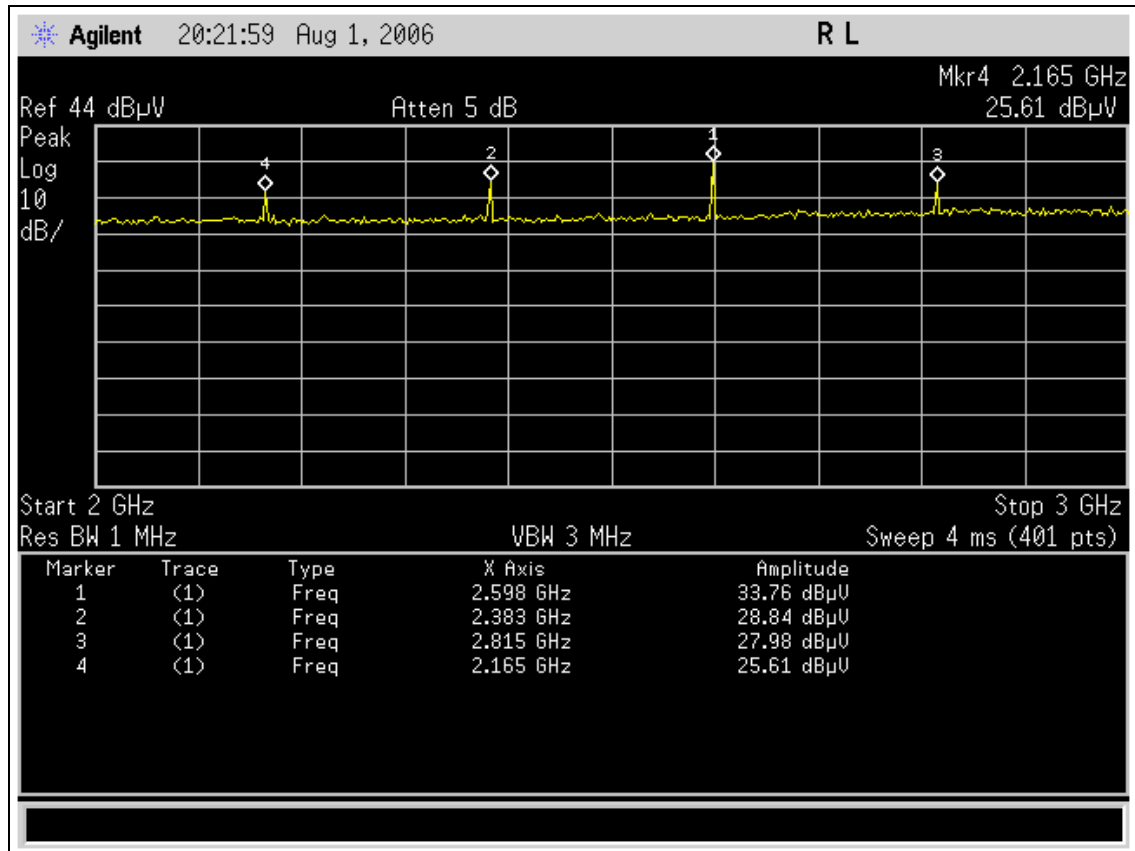
Plot 1. Spurious Emissions Scan, 1 to 1.8 GHz



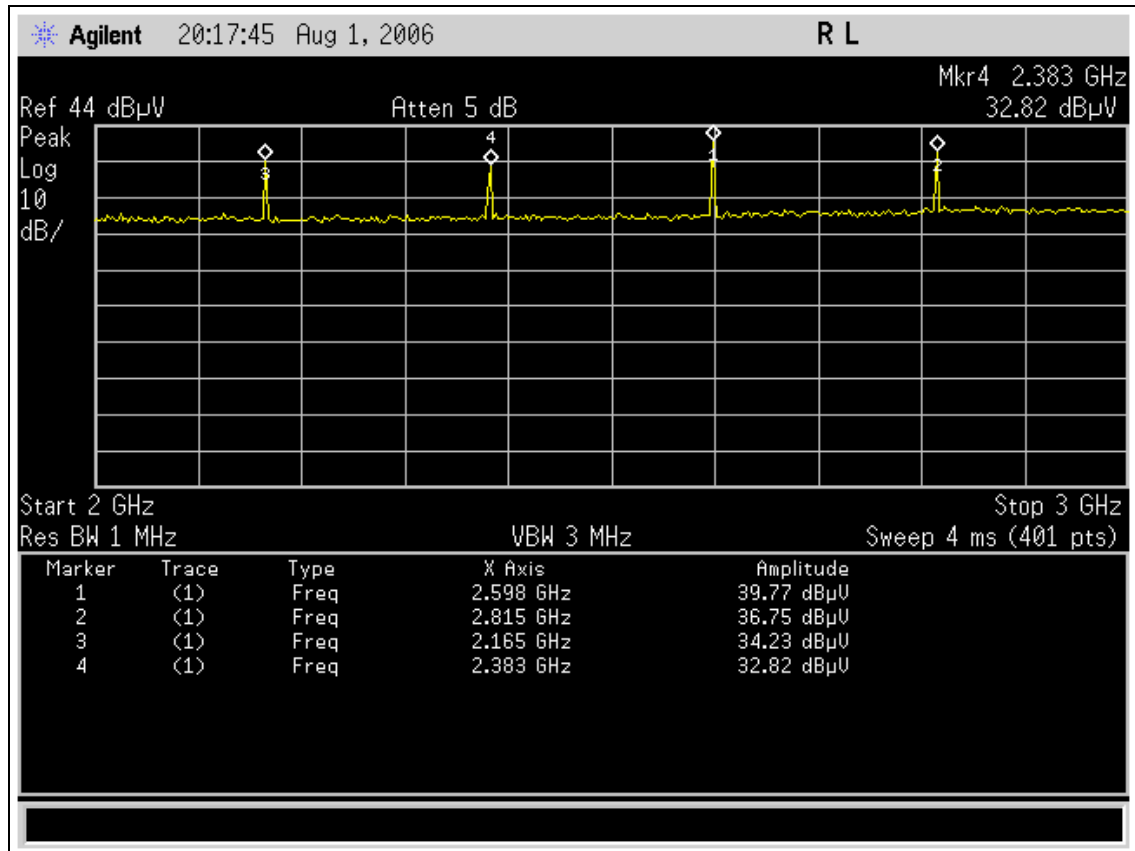
Plot 2. Spurious Emissions Scan, Carrier Amplitude Horizontal



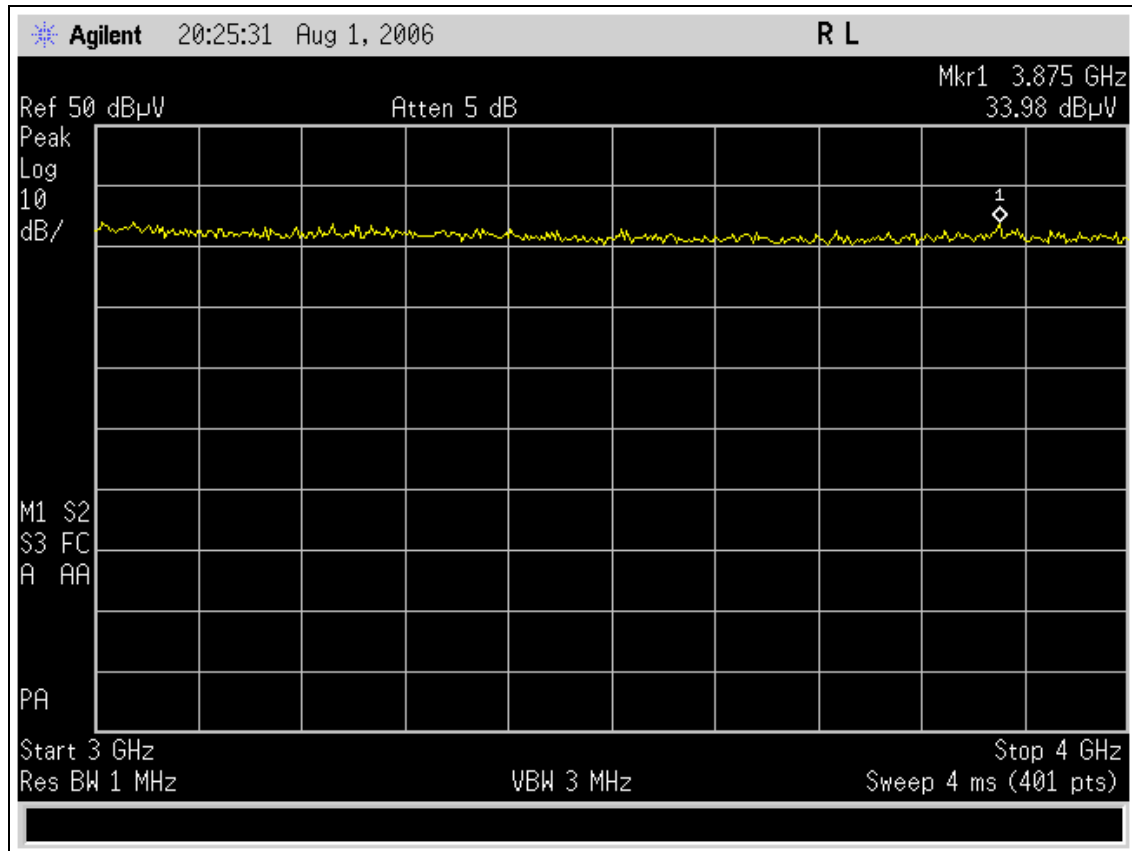
Plot 3. Spurious Emissions Scan, Carrier Amplitude Vertical



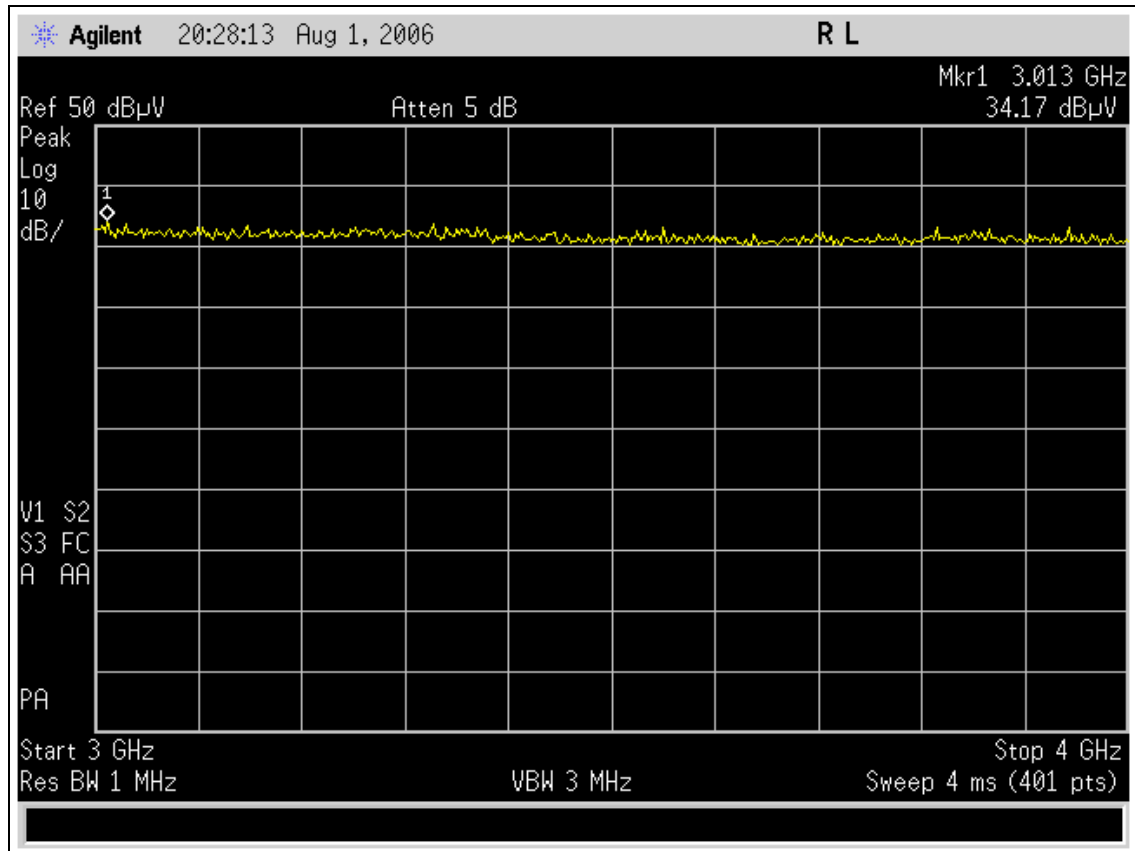
Plot 4. Spurious Emissions Scan – 2 to 3 GHz Horizontal



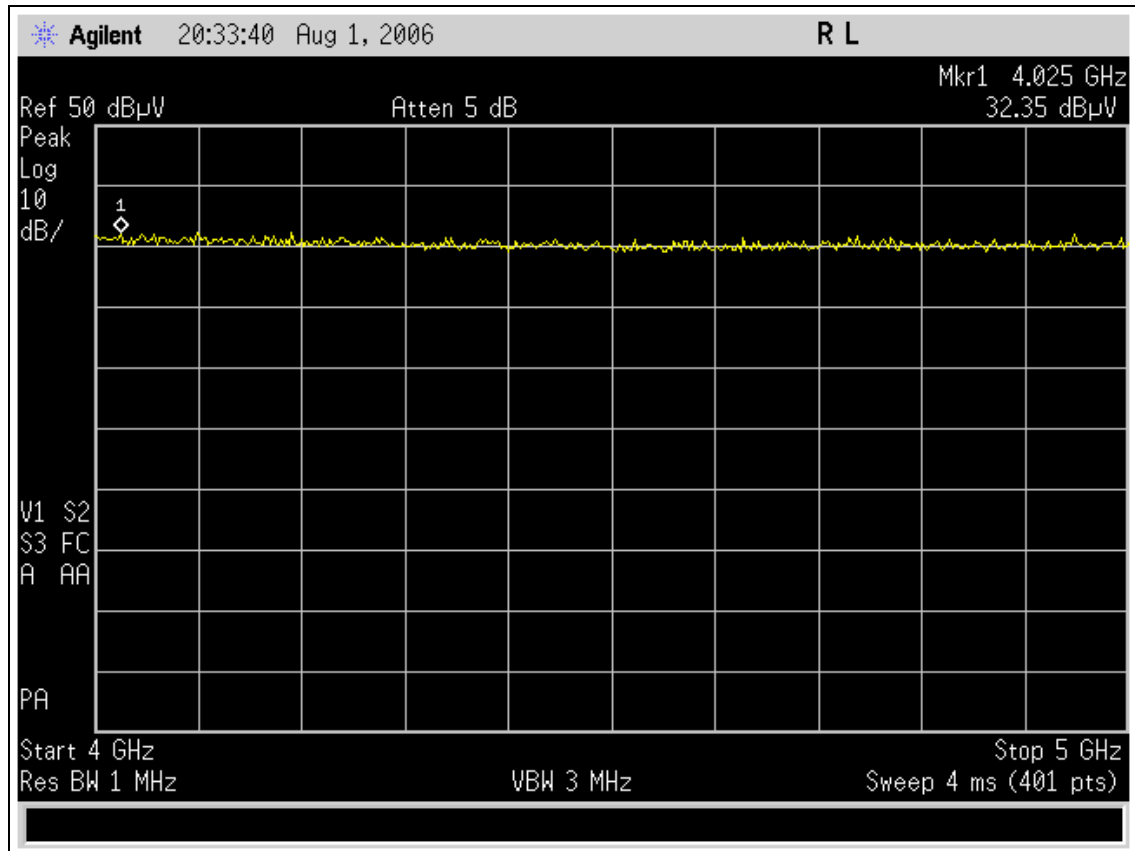
Plot 5. Spurious Emissions Scan – 2 to 3 GHz Vertical



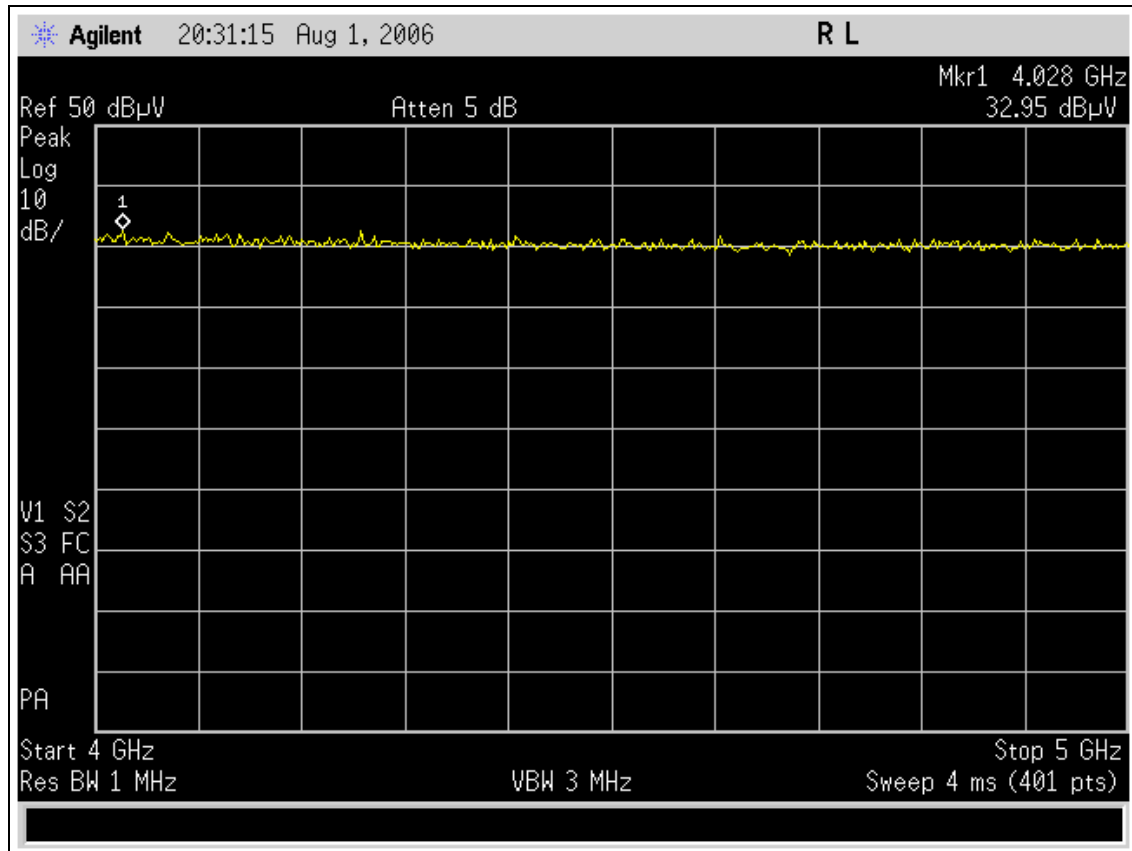
Plot 6. Spurious Emissions Scan – 3 to 4 GHz Horizontal



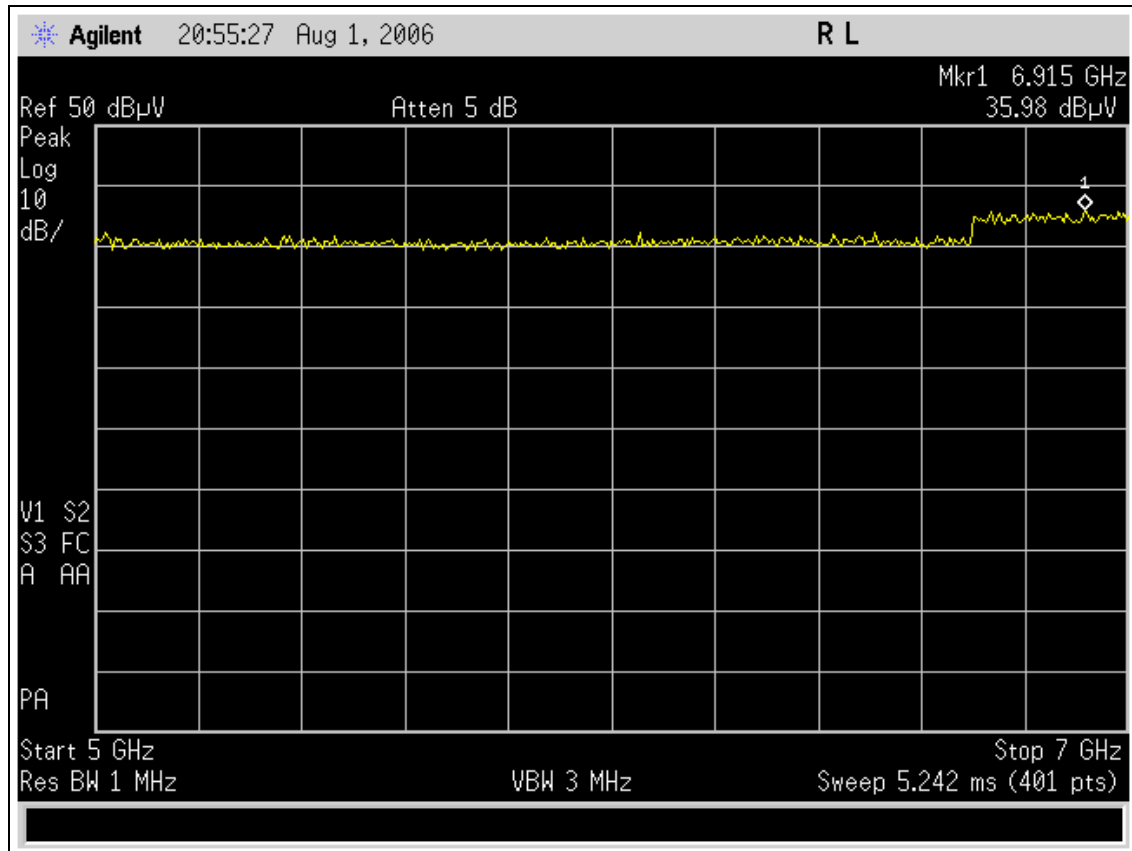
Plot 7. Spurious Emissions Scan – 3 to 4 GHz Vertical



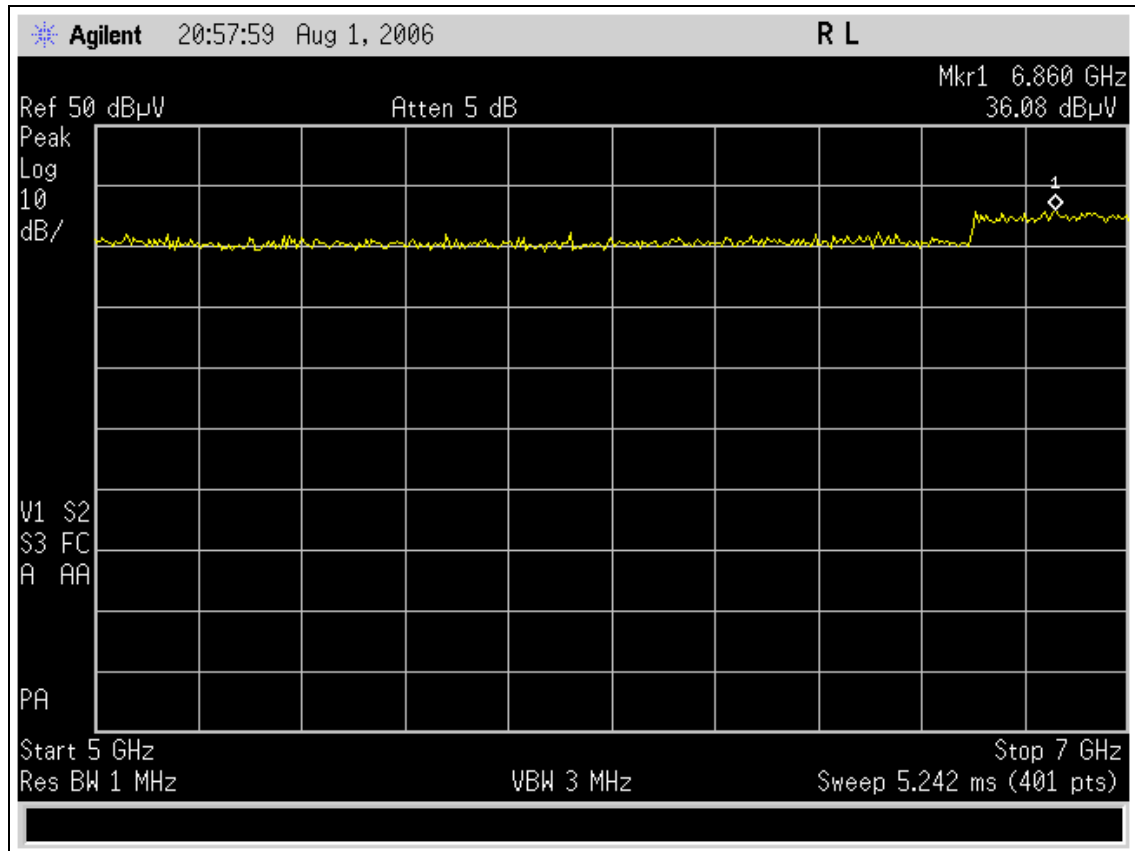
Plot 8. Spurious Emissions Scan – 4 to 5 GHz Horizontal



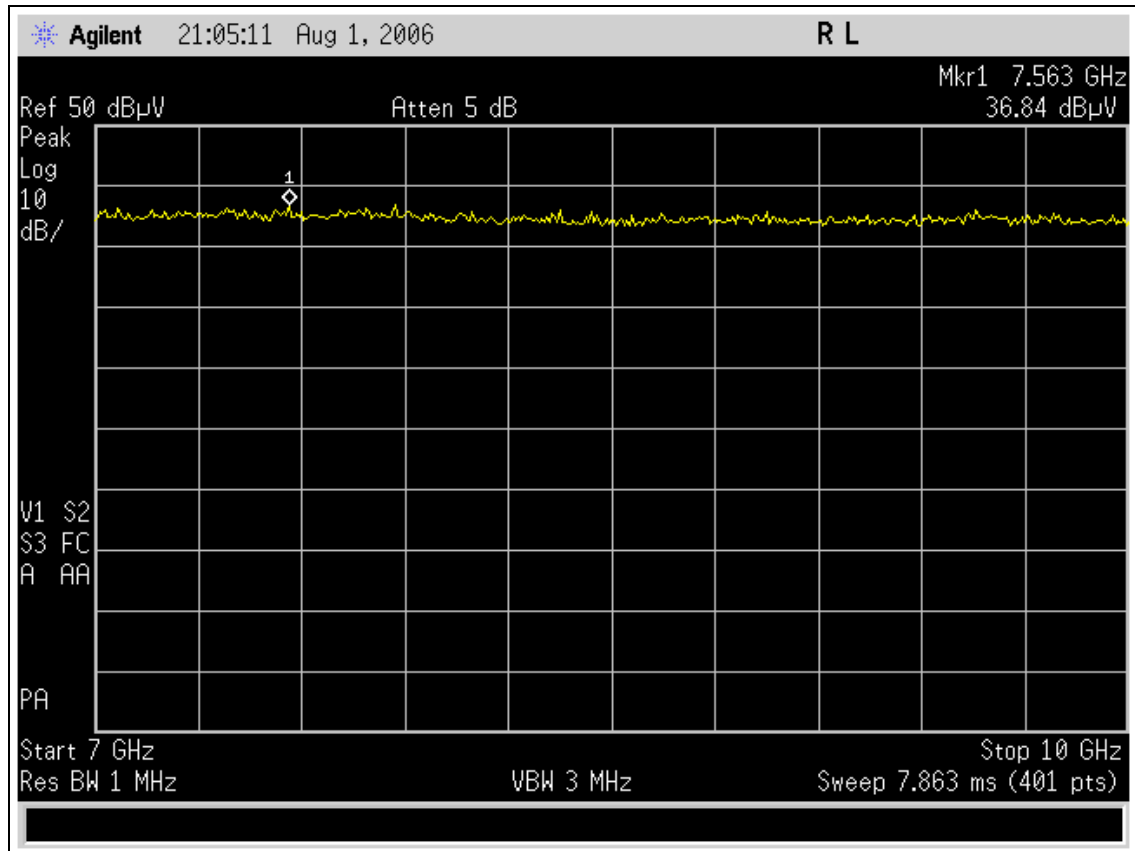
Plot 9. Spurious Emissions Scan – 4 to 5 GHz Vertical



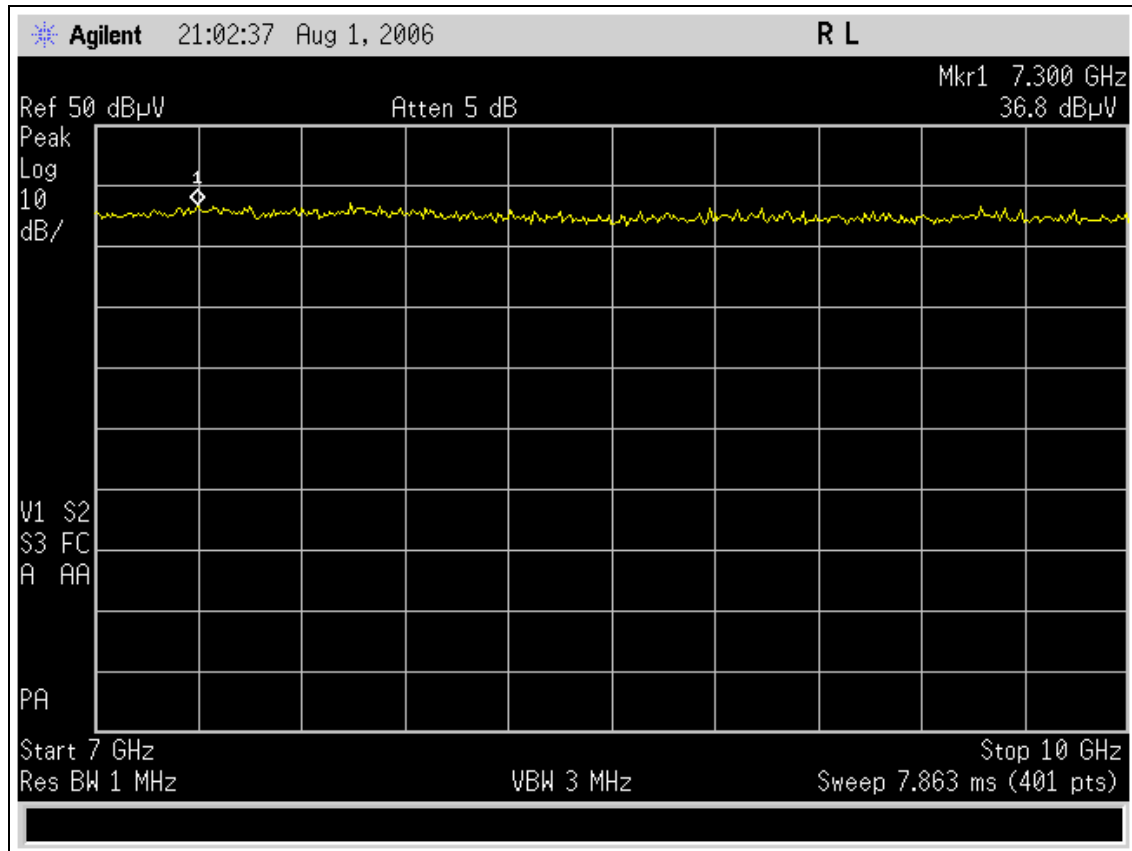
Plot 10. Spurious Emissions Scan – 5 to 7 GHz Horizontal



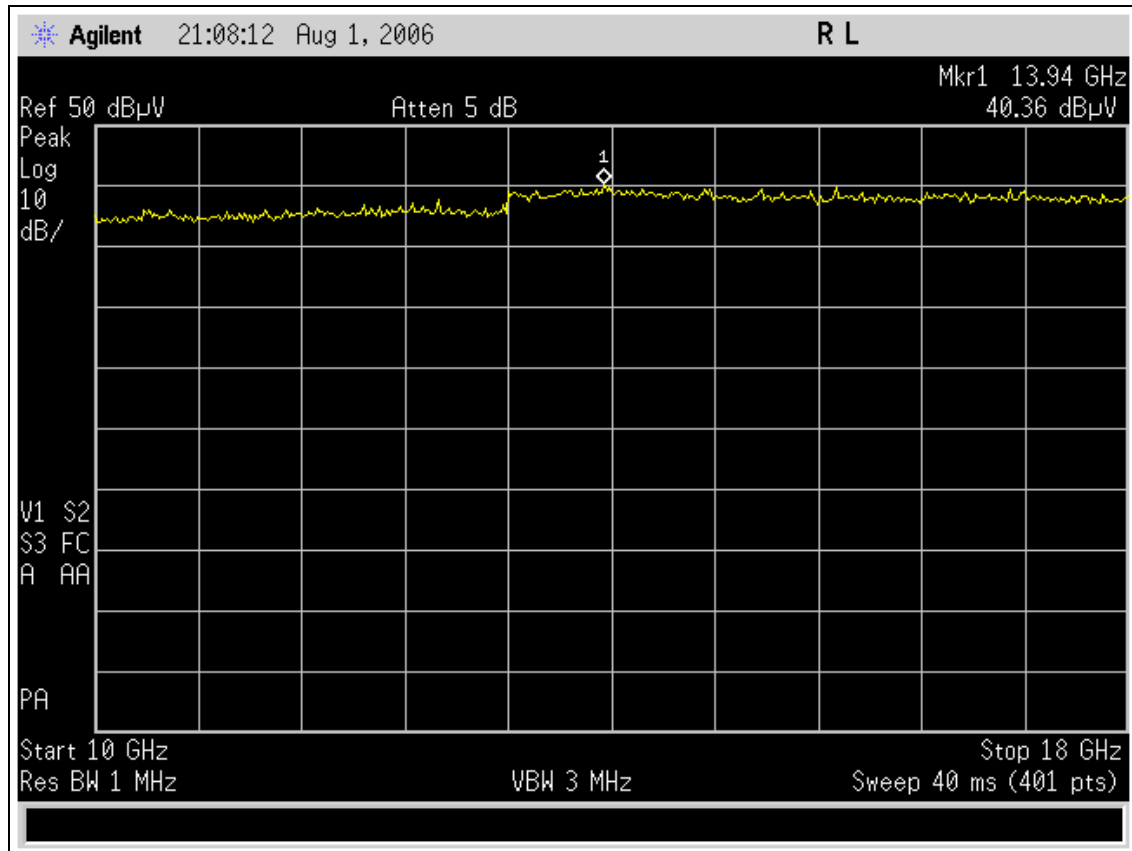
Plot 11. Spurious Emissions Scan – 5 to 7 GHz Vertical



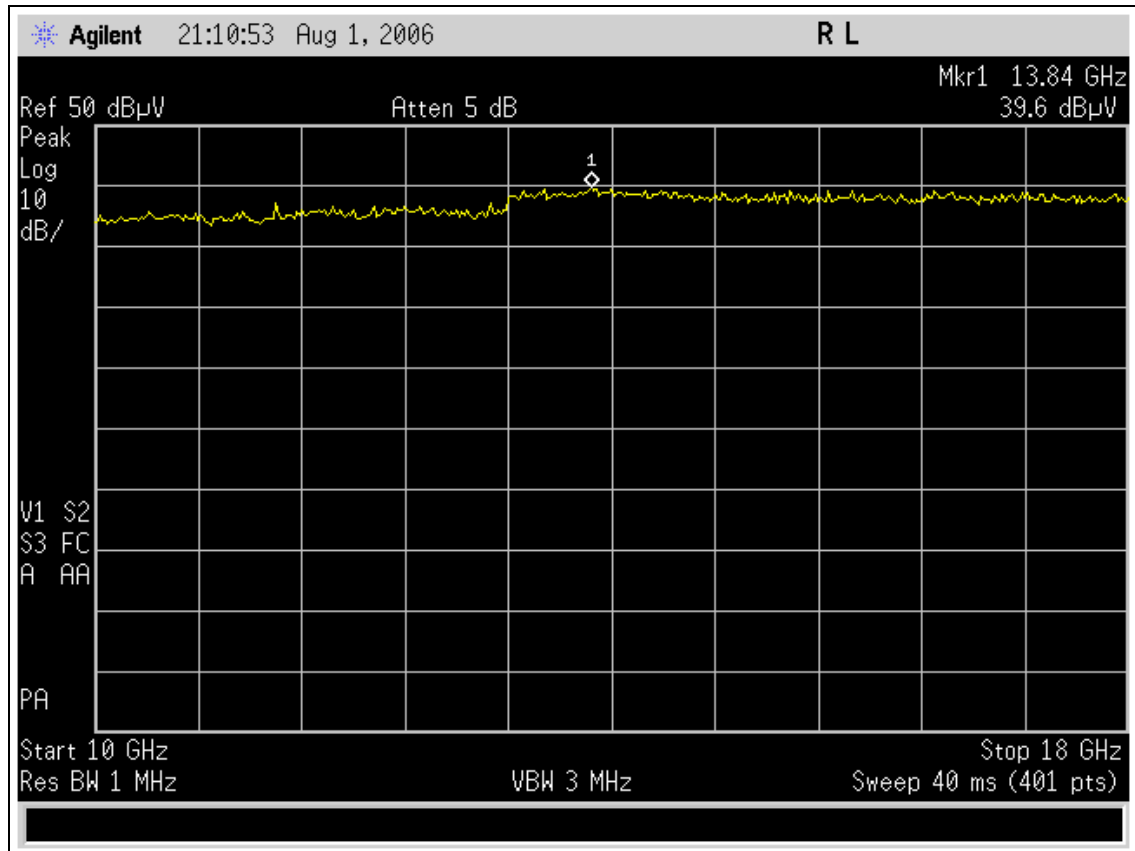
Plot 12. Spurious Emissions Scan – 7 to 10 GHz Horizontal



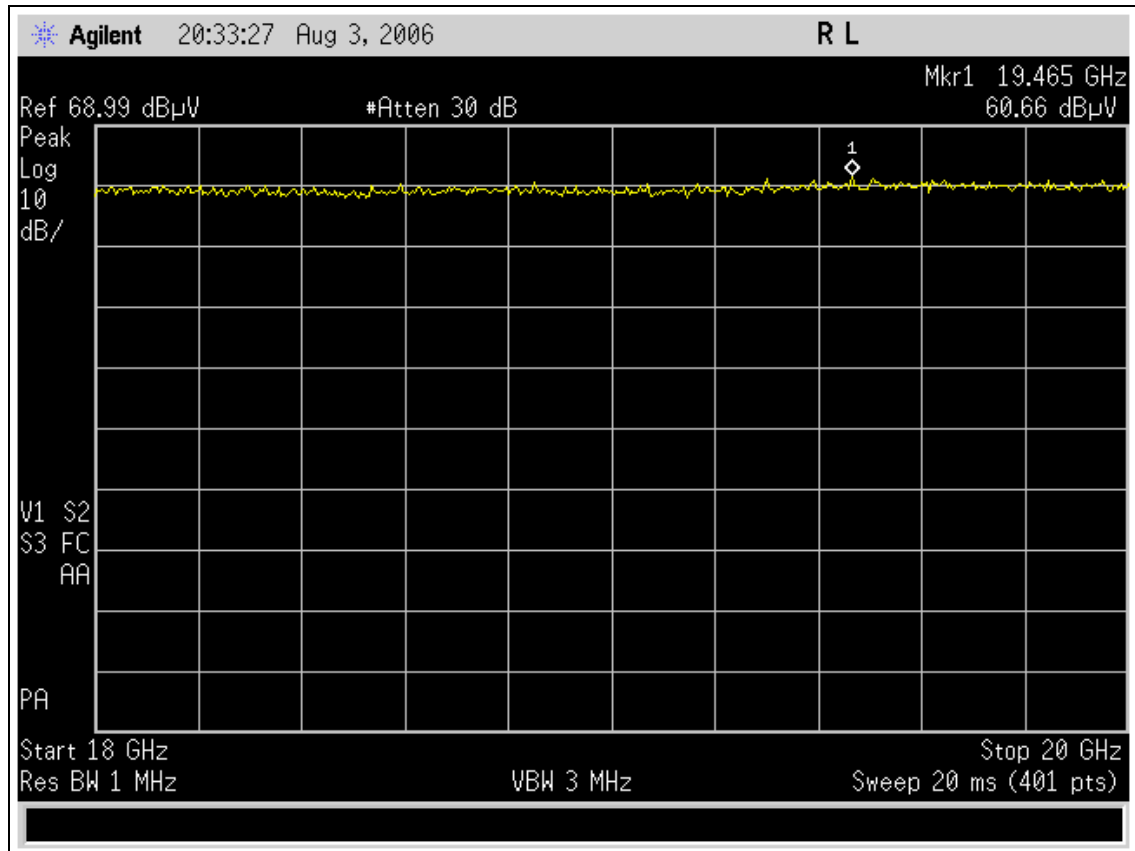
Plot 13. Spurious Emissions Scan – 7 to 10 GHz Vertical



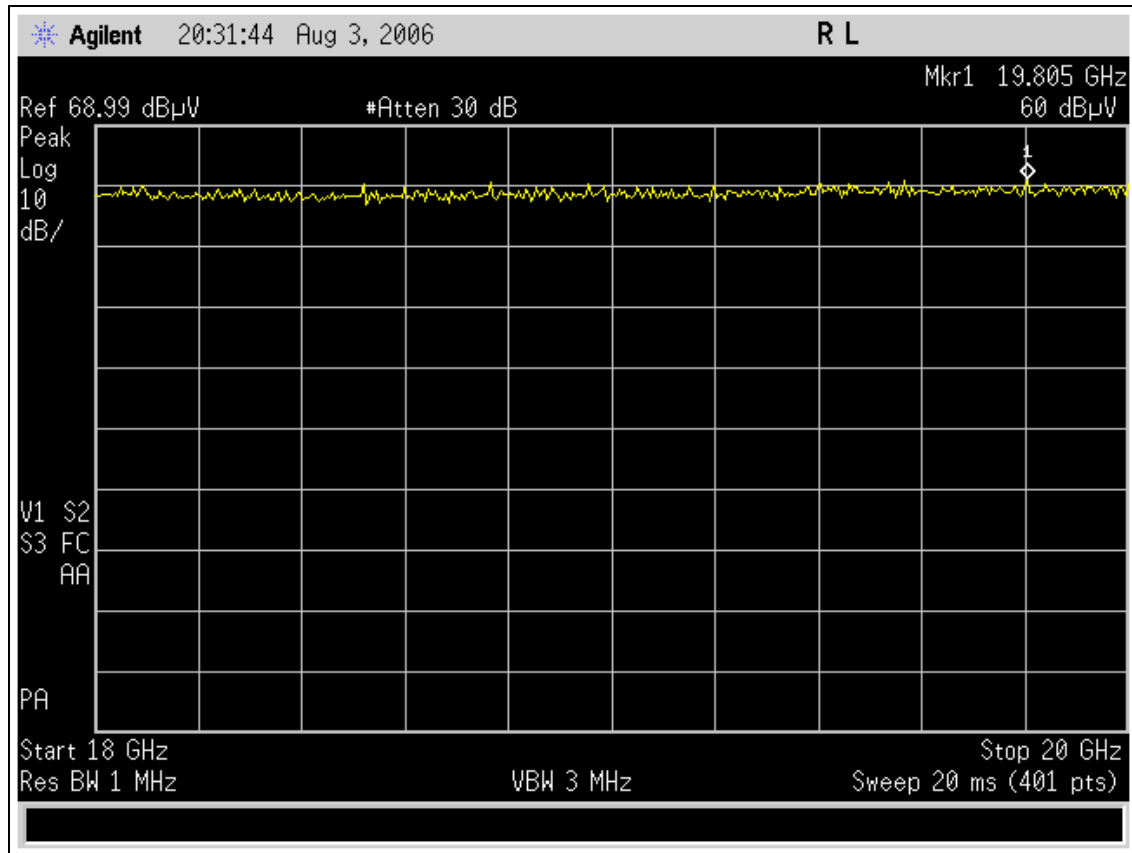
Plot 14. Spurious Emissions Scan – 10 to 18 GHz Horizontal



Plot 15. Spurious Emissions Scan – 10 to 18 GHz Vertical



Plot 16. Spurious Emissions Scan – 18 to 20 GHz Horizontal



Plot 17. Spurious Emissions Scan – 18 to 20 GHz Vertical



Spectrum Management, L.L.C.
TracPac C
FCC ID: 09EQ2438F-M

Electromagnetic Compatibility
Criteria for Broadband PCS Devices
CFR Title 47 Part 24 Subpart E

Frequency (GHz)	Antenna Polarity (H/V)	Spectrum Analyzer Measurement (dBuV) @ 3m (Peak)	Signal Generator (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)
2.165	H	25.61	-49.1	1.9	8.2	-42.8
2.165	V	34.23	-42.9	1.9	8.38	-36.42
2.383	H	28.84	-50.9	2.138	8.8	-44.238
2.383	V	32.82	-42.1	2.138	8.92	-35.318
2.598	H	33.76	-40.1	2.237	9.04	-33.297
2.598	V	39.77	-35.5	2.237	9.1	-28.637
2.815	H	27.98	-50.2	2.445	8.88	-43.765
2.815	V	36.75	-39.2	2.445	9.1	-32.545

Table 3. E.I.R.P. of Radiated Spurious Emissions



Spectrum Management, L.L.C.
TracPac C
FCC ID: O9EQ2438F-M

Electromagnetic Compatibility
Criteria for Broadband PCS Devices
CFR Title 47 Part 24 Subpart E



Photograph 3. Spurious Emissions Test Setup



5.0 Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of *ANSI/NCSL Z540-1-1994* and *ANSI/ISO/IEC 17025:2000*.

MET Asset #	Nomenclature	Manufacturer	Model	Last Cal Date	Cal Due Date
1T2665	ANTENNA; HORN (Rx)	EMCO	3115	04/04/2006	04/04/2007
1T2511	ANTENNA; HORN (Tx)	EMCO	3115	07/13/2006	07/13/2007
1T4300	SEMI-ANECHOIC CHAMBER # 1	EMC TEST SYSTEMS	NONE	02/17/2006	01/17/2009
1T4351	SPECTRUM ANALYZER	AGILENT	E7405A	10/04/2005	10/04/2006
1T4271	GENERATOR; RF SIGNAL	HEWLETT PACKARD	8648C	02/12/2006	02/12/2007

Note: Functionally verified test equipment is verified using calibrated instrumentation at the time of testing.



6.0 Compliance Information

6.1 Certification Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart I — Marketing of Radio frequency devices:

§ 2.801 Radio-frequency device defined.

As used in this part, a radio-frequency device is any device which in its operation is capable of Emitting radio-frequency energy by radiation, conduction, or other means. Radio- frequency devices include, but are not limited to:

- (a) The various types of radio communication transmitting devices described throughout this chapter.
- (b) The incidental, unintentional and intentional radiators defined in Part 15 of this chapter.*
- (c) The industrial, scientific, and medical equipment described in Part 18 of this chapter.
- (d) Any part or component thereof which in use emits radio-frequency energy by radiation, conduction, or other means.

§ 2.803 Marketing of radio frequency devices prior to equipment authorization.

- (a) Except as provided elsewhere in this chapter, no person shall sell or lease, or offer for sale or lease (including advertising for sale or lease), or import, ship or distribute for the purpose of selling or leasing or offering for sale or lease, any radio frequency device unless:
 - (1) In the case of a device subject to certification, such device has been authorized by the Commission in accordance with the rules in this chapter and is properly identified and labeled as required by §2.925 and other relevant sections in this chapter; or
 - (2) In the case of a device that is not required to have a grant of equipment authorization issued by the Commission, but which must comply with the specified technical standards prior to use, such device also complies with all applicable administrative (including verification of the equipment or authorization under a Declaration of Conformity, where required), technical, labeling and identification requirements specified in this chapter.
- (d) Notwithstanding the provisions of paragraph (a) of this section, the offer for sale solely to business, commercial, industrial, scientific or medical users (but not an offer for sale to other parties or to end users located in a residential environment) of a radio frequency device that is in the conceptual, developmental, design or pre-production stage is permitted prior to equipment authorization or, for devices not subject to the equipment authorization requirements, prior to a determination of compliance with the applicable technical requirements *provided* that the prospective buyer is advised in writing at the time of the offer for sale that the equipment is subject to the FCC rules and that the



equipment will comply with the appropriate rules before delivery to the buyer or to centers of distribution.

- (e)(1) Notwithstanding the provisions of paragraph (a) of this section, prior to equipment authorization or determination of compliance with the applicable technical requirements any radio frequency device may be operated, but not marketed, for the following purposes and under the following conditions:
 - (i) *Compliance testing;*
 - (ii) Demonstrations at a trade show provided the notice contained in paragraph (c) of this section is displayed in a conspicuous location on, or immediately adjacent to, the device;
 - (iii) Demonstrations at an exhibition conducted at a business, commercial, industrial, scientific or medical location, but excluding locations in a residential environment, provided the notice contained in paragraphs (c) or (d) of this section, as appropriate, is displayed in a conspicuous location on, or immediately adjacent to, the device;
 - (iv) Evaluation of product performance and determination of customer acceptability, provided such operation takes place at the manufacturer's facilities during developmental, design or pre-production states; or
 - (v) Evaluation of product performance and determination of customer acceptability where customer acceptability of a radio frequency device cannot be determined at the manufacturer's facilities because of size or unique capability of the device, provided the device is operated at a business, commercial, industrial, scientific or medical user's site, but not at a residential site, during the development, design or pre-production stages.
- (e)(2) For the purpose of paragraphs (e)(1)(iv) and (e)(1)(v) of this section, the term *manufacturer's facilities* includes the facilities of the party responsible for compliance with the regulations and the manufacturer's premises, as well as the facilities of other entities working under the authorization of the responsible party in connection with the development and manufacture, but not the marketing, of the equipment.
- (f) For radio frequency devices subject to verification and sold solely to business, commercial, industrial, scientific and medical users (excluding products sold to other parties or for operation in a residential environment), parties responsible for verification of the devices shall have the option of ensuring compliance with the applicable technical specifications of this chapter at each end user's location after installation, provided that the purchase or lease agreement includes a proviso that such a determination of compliance be made and is the responsibility of the party responsible for verification of the equipment.



**The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart J —
Equipment Authorization Procedures:**

§ 2.901 Basis and Purpose

- (a) In order to carry out its responsibilities under the Communications Act and the various treaties and international regulations, and in order to promote efficient use of the radio spectrum, the Commission has developed technical standards for radio frequency equipment and parts or components thereof. The technical standards applicable to individual types of equipment are found in that part of the rules governing the service wherein the equipment is to be operated.¹ *In addition to the technical standards provided, the rules governing the service may require that such equipment be verified by the manufacturer or importer*, be authorized under a Declaration of Conformity, or receive an equipment authorization from the Commission by one of the following procedures: certification or registration.
- (b) The following sections describe the verification procedure, the procedure for a Declaration of Conformity, and the procedures to be followed in obtaining certification from the Commission and the conditions attendant to such a grant.

§ 2.907 Certification.

- (a) Certification is an equipment authorization issued by the Commission, based on representation and test data submitted by the applicant.
- (b) Certification attaches to all units subsequently marketed by the grantee which are identical (see Section 2.908) to the sample tested except for permissive changes or other variations authorized by the Commission pursuant to Section 2.1043.

¹ In this case, the equipment is subject to the rules of Part 15. More specifically, the equipment falls under Subpart B (of Part 15), which deals with unintentional radiators.



§ 2.948 Description of measurement facilities.

- (a) Each party making measurements of equipment that is subject to an equipment authorization under Part 15 or Part 18 of this chapter, regardless of whether the measurements are filed with the Commission or kept on file by the party responsible for compliance of equipment marketed within the U.S. or its possessions, shall compile a description of the measurement facilities employed.
 - (1) If the measured equipment is subject to the verification procedure, the description of the measurement facilities shall be retained by the party responsible for verification of the equipment.
 - (i) *If the equipment is verified through measurements performed by an independent laboratory, it is acceptable for the party responsible for verification of the equipment to rely upon the description of the measurement facilities retained by or placed on file with the Commission by that laboratory. In this situation, the party responsible for the verification of the equipment is not required to retain a duplicate copy of the description of the measurement facilities.*
 - (ii) If the equipment is verified based on measurements performed at the installation site of the equipment, no specific site calibration data is required. It is acceptable to retain the description of the measurement facilities at the site at which the measurements were performed.
 - (2) If the equipment is to be authorized by the Commission under the certification procedure, the description of the measurement facilities shall be filed with the Commission's Laboratory in Columbia, Maryland. The data describing the measurement facilities need only be filed once but must be updated as changes are made to the measurement facilities or as otherwise described in this section. At least every three years, the organization responsible for filing the data with the Commission shall certify that the data on file is current.



6.2 Label and User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart A — General:

§ 15.19 Labeling requirements.

(a) *In addition to the requirements in Part 2 of this chapter, a device subject to certification or verification shall be labeled as follows:*

- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under Part 73 of this chapter, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

- (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.

- (3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

- (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

§ 15.21 Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B — Unintentional Radiators:

§ 15.105 Information to the user.

- (a) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.