InFocus Corporation

PBP

Report No. INFO0377.1

Report Prepared By

NORTHWEST EMC

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

EMC Test Report

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: May 05, 2009
InFocus Corporation
Model: PBP

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Radiated Emissions	FCC 15.109(g) (CISPR 22:1997):2009 Class B	ANSI C63.4:2003	**Pass**
Field Strength of Fundamental	FCC 15.249:2009	ANSI C63.4:2003	**Pass**
Field Strength of Harmonics	FCC 15.249:2009	ANSI C63.4:2003	**Pass**
AC Powerline Conducted Emissions	FCC 15.207:2009 Class B	ANSI C63.4:2003	**Pass**
Receiver Spurious Emissions	RSS-Gen:2007	RSS-Gen:2007	**Pass**
Occupied Bandwidth	RSS-Gen:2007	RSS-Gen:2007	**Pass**
AC Powerline Conducted Emissions	RSS-Gen:2007	RSS-Gen:2007	**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 #2834D-2).

Approved By:

Don Facteau, IS 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 History

Revision Number	Description	Date	Page Number
00	None		

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-Gen, Issue 2 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. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2)*

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.

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).*

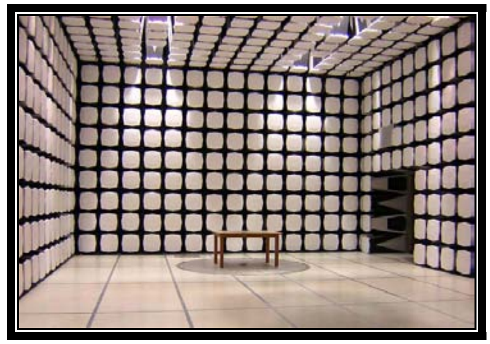
BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017). License No.SL2-IN-E-1017.

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

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

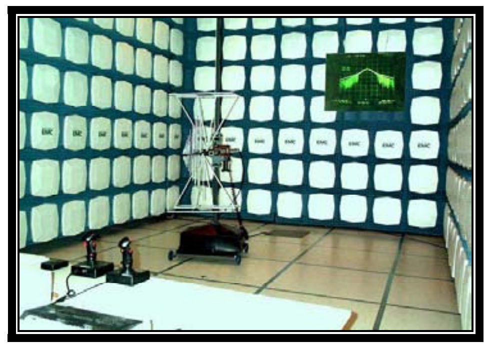
SCOPE

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



California – Orange County Facility
Labs OC01 – OC13

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

Oregon – Evergreen Facility
Labs EV01 – EV11

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


Washington – Sultan Facility
Labs SU01 – SU07

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

Party Requesting the Test

Company Name:	InFocus Corporation
Address:	27500 SW Parkway Ave.
City, State, Zip:	Wilsonville, OR 97070-9215
Test Requested By:	Cindy Wong
Model:	PBP
First Date of Test:	April 29, 2009
Last Date of Test:	May 6, 2009
Receipt Date of Samples:	April 27, 2009
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
2.4 GHz radio pen used with wireless-enabled projector.

Testing Objective:
Seeking approval under FCC 15.249 and RSS-Gen.

EUT Photo

CONFIGURATION 2 INFO0377

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
LiteBoard Optical Pen	InFocus Corporation	PBP	None
Power Adapter	ElemenTech	AU10505040	J08111908R 2008 Nov

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB	Yes	1.8m	Yes	LiteBoard Optical Pen	Power Adapter
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 3 INFO0377

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
LiteBoard Optical Pen	InFocus Corporation	PBP	None
Power Adapter	ElemenTech	AU10505040	J08111908R 2008 Nov

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB	Yes	1.8m	Yes	LiteBoard Optical Pen	Power Adapter
AC Mains	No	1.0m	No	Power Adapter	AC Mains
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 4 INFO0377

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
LiteBoard Optical Pen	InFocus Corporation	PBP	None

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	4/30/2009	Radiated 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	5/5/2009	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	5/5/2009	Field Strength of Harmonics	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	5/6/2009	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	5/6/2009	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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

Ping test

POWER SETTINGS INVESTIGATED

230V/50Hz
120V/60Hz

CONFIGURATIONS INVESTIGATED

INFO0377 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	1000 MHz

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
Spectrum Analyzer	Agilent	E4443A	AAS	12/12/2008	13 mo
Pre-Amplifier	Miteq	AM-1551	AOY	5/22/2008	13 mo
EV11 Cables		10m Test Distance Cables	EVL	5/24/2008	13 mo
Antenna, Biconilog	EMCO	3142	AXB	1/15/2008	24 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 16-4-2. 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.

NORTHWEST

EMC

RADIATED EMISSIONS

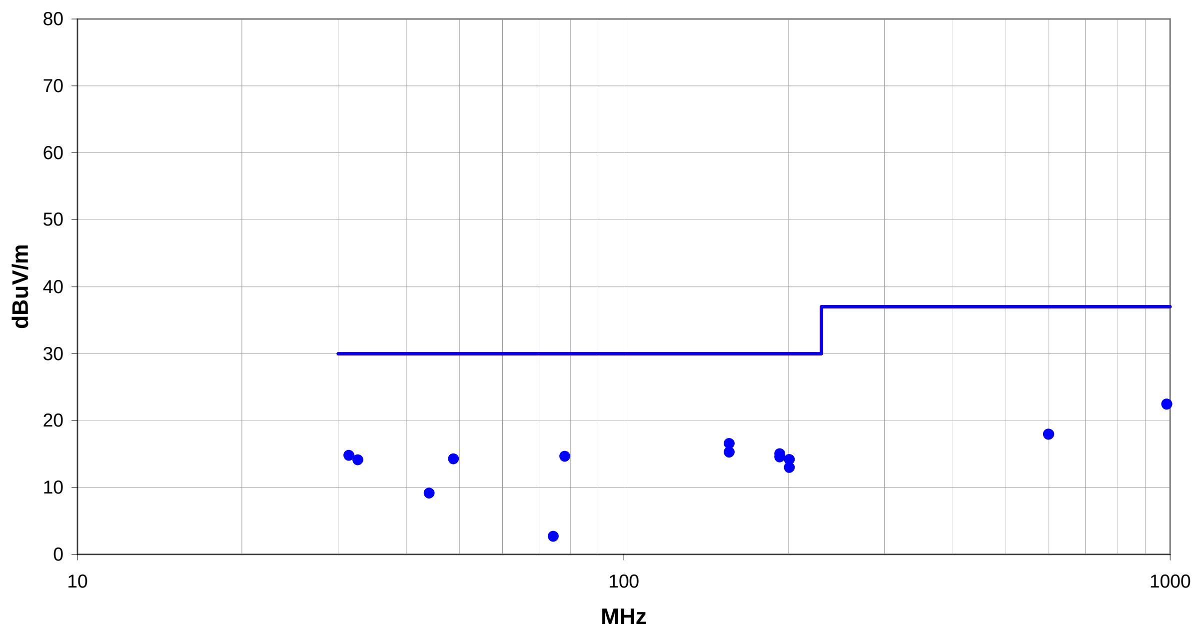
PSA-ESCI 2008.12.15
Version 2008.3.31

Work Order:	INFO0377	**Date:**	04/30/09		
Project:	None	**Temperature:**	21		
Job Site:	EV11	**Humidity:**	33		
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:**	Jennifer Herrett

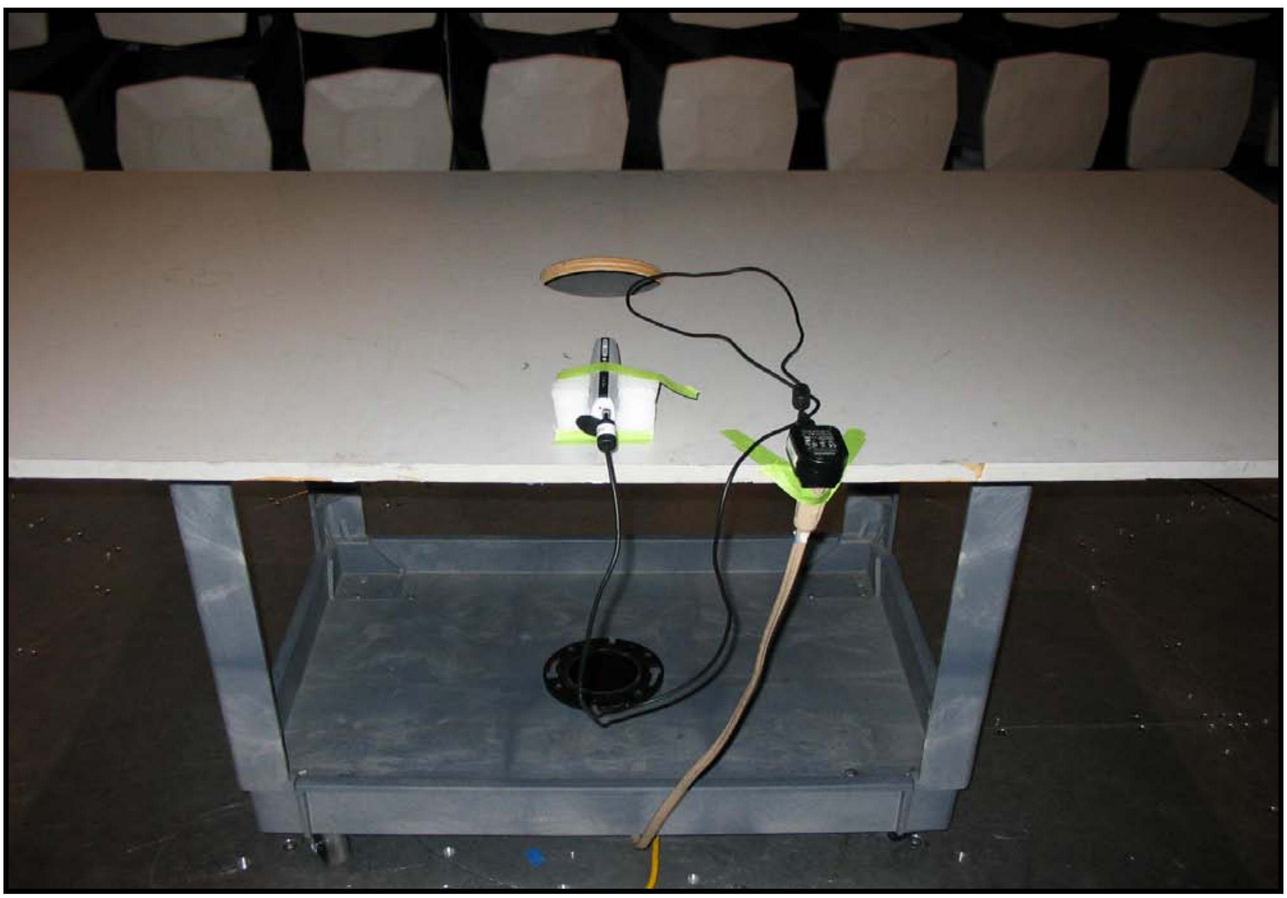
EUT:	PBP
Configuration:	3 - Radiated Emissions - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	230V/50Hz
Operating Mode:	Ping test
Deviations:	No deviations.
Comments:	None

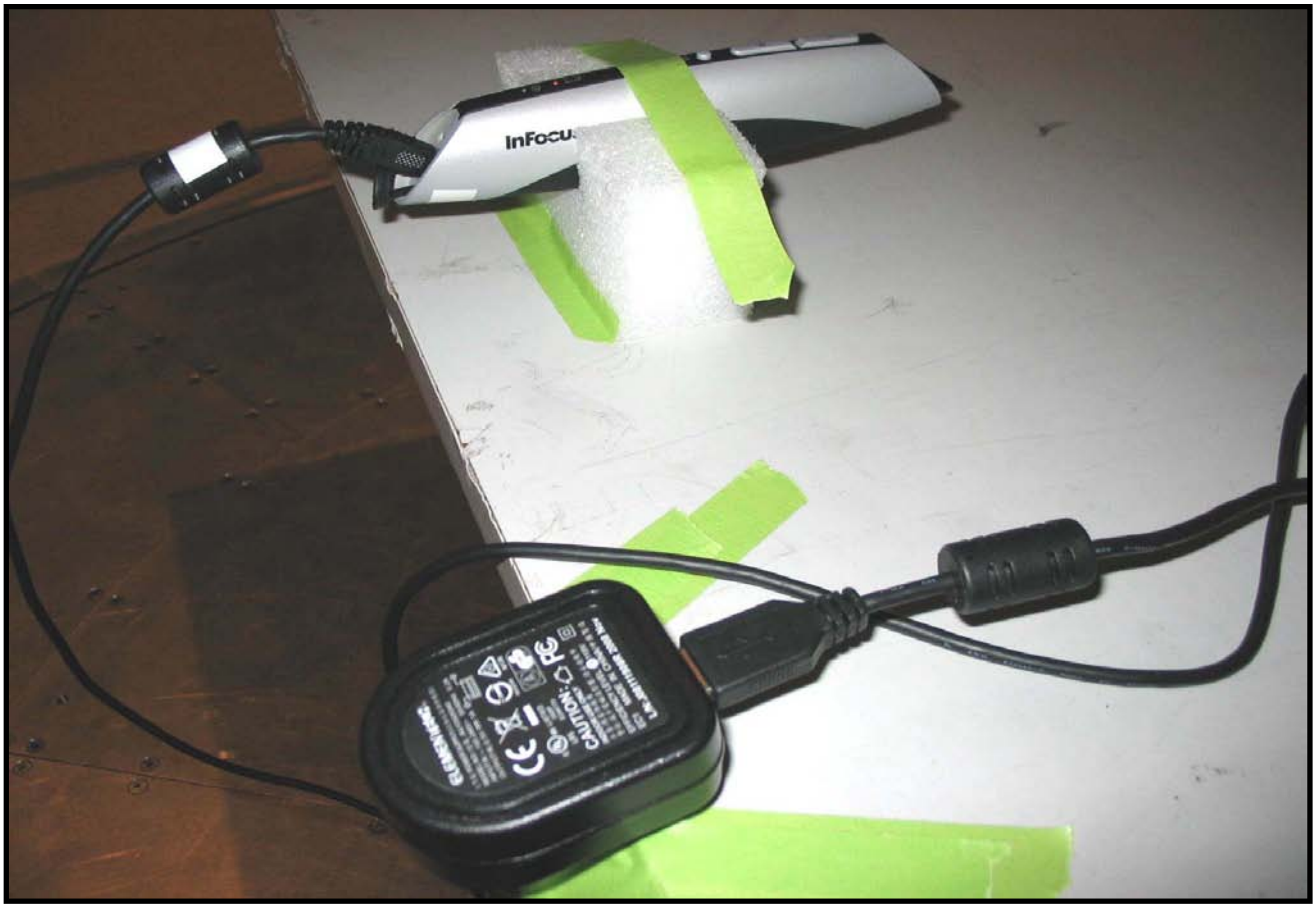
Test Specifications	**Class B**	**Test Method**
FCC 15.109(g) (CISPR 22:1997):2009		ANSI C63.4:2003

Run #	2	**Test Distance (m)**	10	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
155.995	41.8	-25.3	1.3	335.0	10.0	0.0	Vert	QP	0.0	16.5	30.0	-13.5
986.996	30.3	-7.9	1.0	177.0	10.0	0.0	Horz	QP	0.0	22.4	37.0	-14.6
986.850	30.3	-7.9	1.0	169.0	10.0	0.0	Vert	QP	0.0	22.4	37.0	-14.6
155.995	40.5	-25.3	3.2	127.0	10.0	0.0	Horz	QP	0.0	15.2	30.0	-14.8
193.120	38.8	-23.8	1.0	66.0	10.0	0.0	Vert	QP	0.0	15.0	30.0	-15.0
31.421	31.6	-16.8	2.0	-3.0	10.0	0.0	Vert	QP	0.0	14.8	30.0	-15.2
78.013	43.0	-28.4	1.7	11.0	10.0	0.0	Vert	QP	0.0	14.6	30.0	-15.4
192.985	38.3	-23.8	3.1	258.0	10.0	0.0	Horz	QP	0.0	14.5	30.0	-15.5
48.822	38.5	-24.2	3.5	98.0	10.0	0.0	Vert	QP	0.0	14.3	30.0	-15.7
200.982	37.7	-23.5	1.2	115.0	10.0	0.0	Vert	QP	0.0	14.2	30.0	-15.8
32.626	31.5	-17.4	3.0	15.0	10.0	0.0	Horz	QP	0.0	14.1	30.0	-15.9
200.995	36.5	-23.5	3.6	261.0	10.0	0.0	Horz	QP	0.0	13.0	30.0	-17.0
599.541	30.7	-12.8	1.0	341.0	10.0	0.0	Horz	QP	0.0	17.9	37.0	-19.1
599.298	30.7	-12.8	1.0	258.0	10.0	0.0	Vert	QP	0.0	17.9	37.0	-19.1
44.088	31.6	-22.4	1.0	222.0	10.0	0.0	Horz	QP	0.0	9.2	30.0	-20.8
74.307	31.1	-28.4	1.5	196.0	10.0	0.0	Horz	QP	0.0	2.7	30.0	-27.3




InFocus
CAUTION:

RECEIVER SPURIOUS EMISSIONS

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

MODES OF OPERATION

Rx mid channel

MODE USED FOR FINAL DATA

Rx mid channel

POWER SETTINGS INVESTIGATED

Battery

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30MHz	Stop Frequency	10000MHz

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
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	12/2/2008	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	12/2/2008	13
Antenna, Horn	ETS	3160-09	AHG	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	5/14/2008	13
Antenna, Horn	ETS	3160-08	AIA	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	5/14/2008	13
Antenna, Horn	ETS	3160.07	AHZ	10/14/2008	24
Attenuator	Pasternack	PE7005-20	AUN	5/10/2008	13
High Pass Filter	Micro-Tronics	50111	HGE	5/14/2008	13
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	6/17/2008	13
Antenna, Horn	ETS	3115	AIB	8/25/2008	24
Spectrum Analyzer	Agilent	E44440A	AFA	11/14/2008	12
EV12 Cables		Bilog Cables	EVS	6/17/2008	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	6/17/2008	13
Antenna, Biconilog	EMCO	3141	AXG	11/4/2008	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 16-4-2. 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 EUT was configured for mid channel receive frequency. The spectrum was scanned through out the range specified in RSS-Gen. RSS GEN defines the start frequency for receiver spurious emissions as 30MHz and the stop frequency the 3rd harmonic of the highest tuneable receive frequency. Unwanted emissions were measured to demonstrate compliance. While scanning, emissions from the EUT were maximized by rotating the EUT 360 degrees, measuring the EUT in three orthogonal axis, and adjusting the measurement antenna height and polarization between 1 and 4 meters. A preamp was used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST
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RECEIVER SPURIOUS EMISSIONS

PSA 2007.05.07
EMI 2008.1.9

EUT:	**PBP**	**Work Order:**	**INFO0377**
Serial Number:	**None**	**Date:**	**05/01/09**
Customer:	**InFocus Corporation**	**Temperature:**	**21**
Attendees:	**None**	**Humidity:**	**33%**
Project:	**None**	**Barometric Pres.:**	**30.03**
Tested by:	**Ethan Schoonover** — **Power:** **120VAC/60Hz**	**Job Site:**	**EV12**

TEST SPECIFICATIONS — Test Method

RSS-Gen:2007	RSS-Gen:2007

TEST PARAMETERS

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

COMMENTS

None

EUT OPERATING MODES

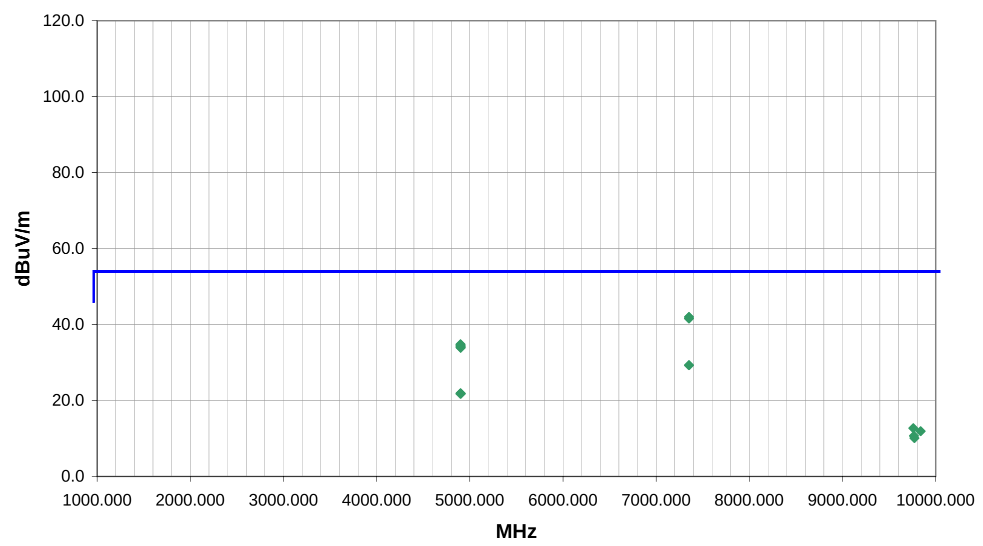
Rx mid channel

DEVIATIONS FROM TEST STANDARD

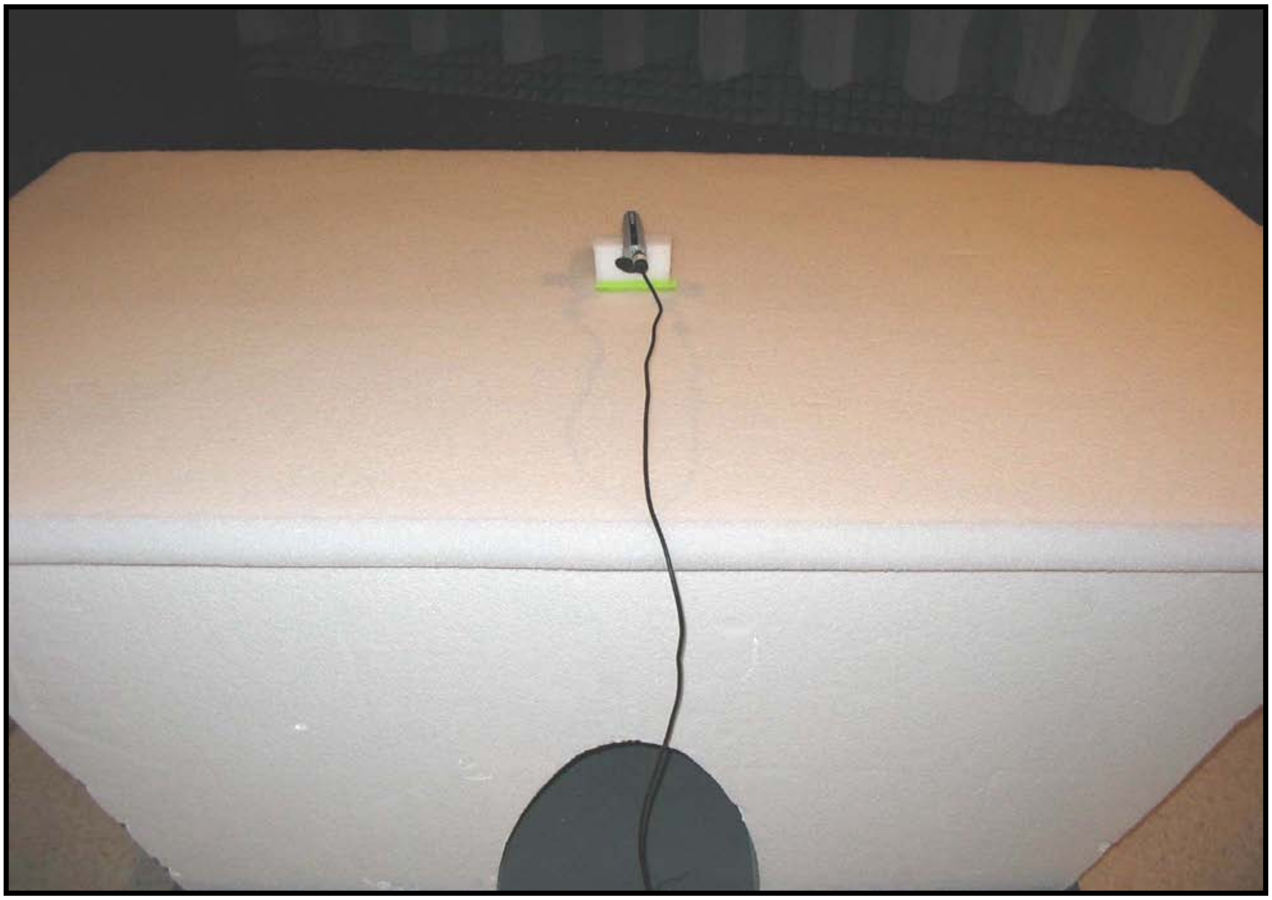
No deviations.

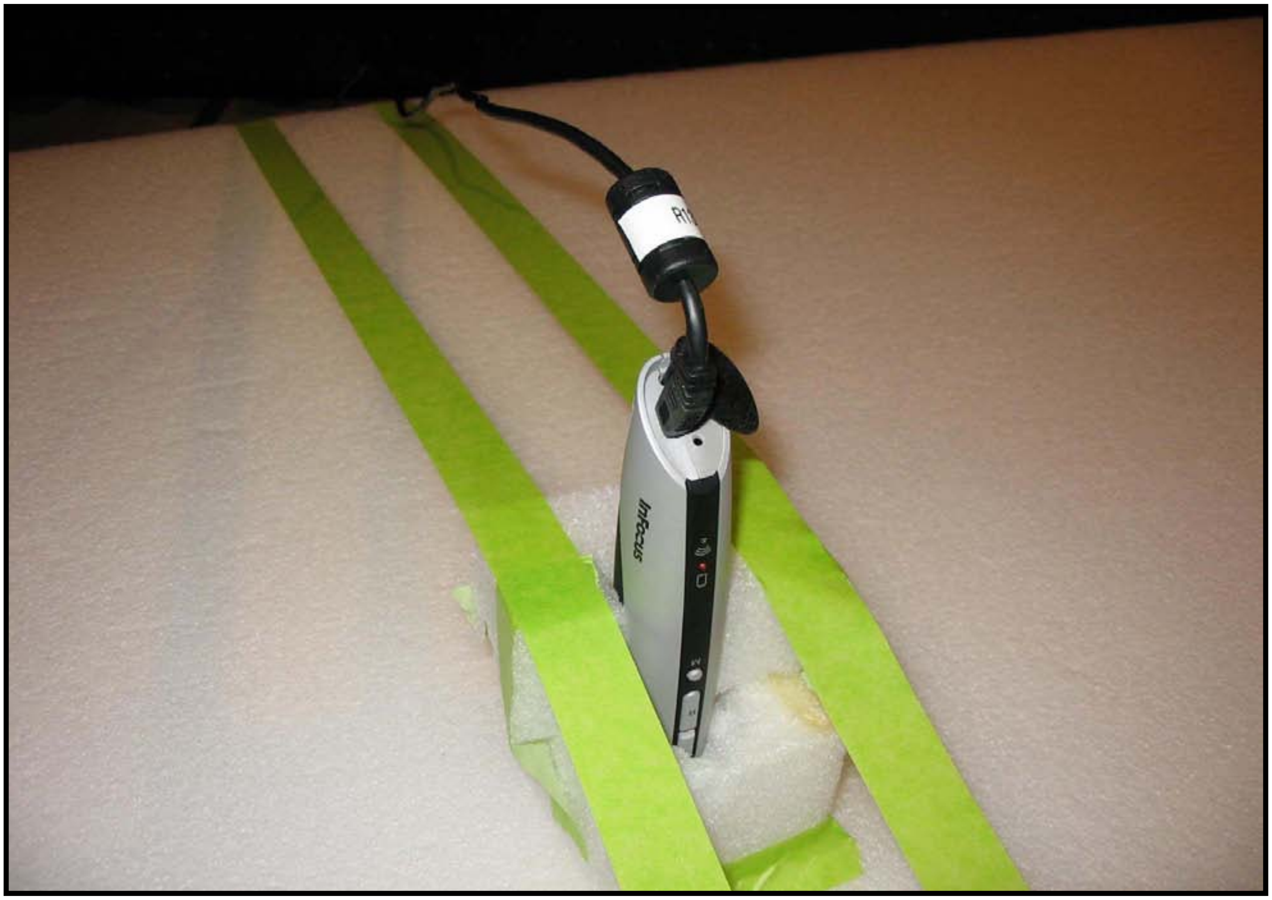
Run #	**6**
Configuration #	**2**
Results	**Pass**

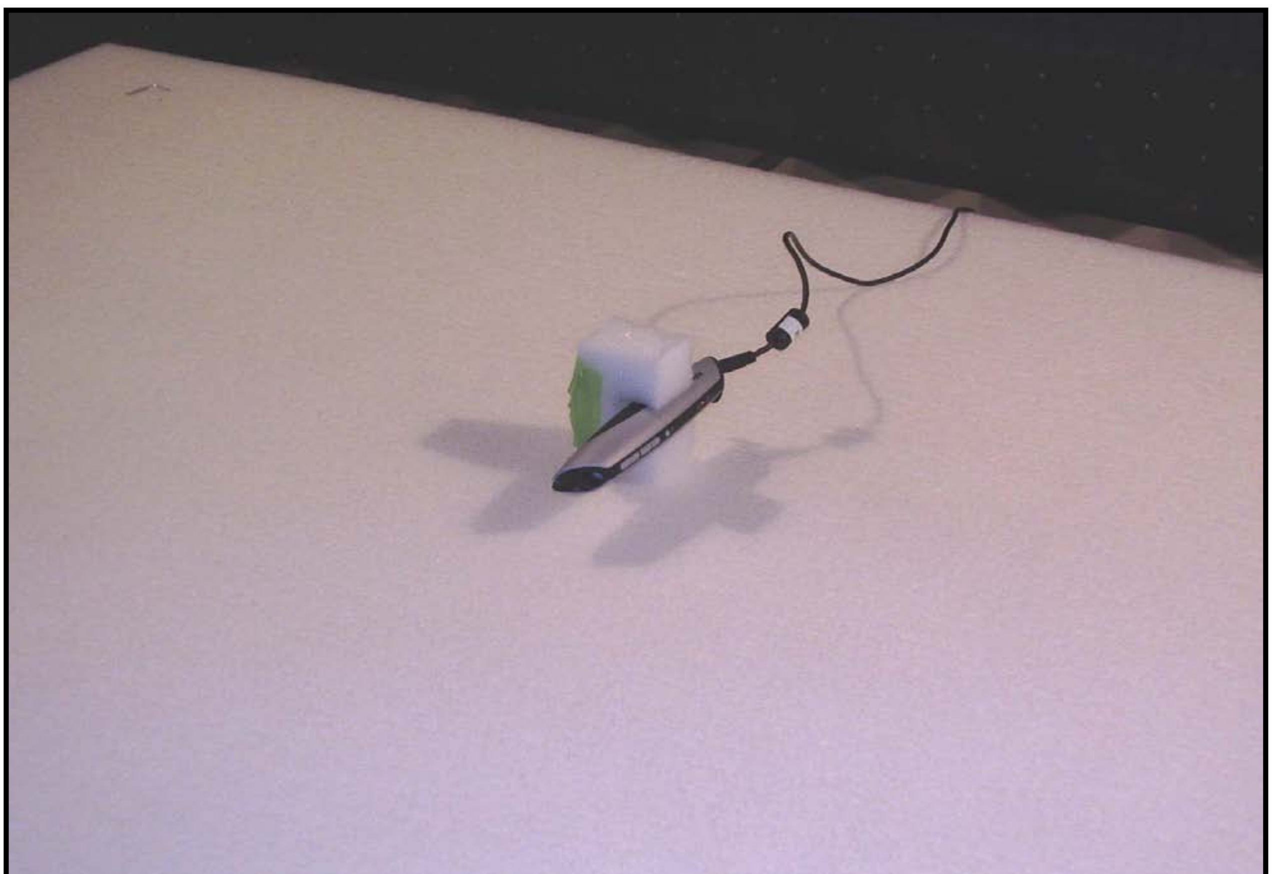
Signature



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)	Comments
7351.736	27.8	14.2	261.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.0	54.0	-12.0	EUT flat. USB cable attached.
7352.467	27.4	14.2	334.0	1.0	3.0	0.0	V-Horn	PK	0.0	41.6	54.0	-12.4	EUT flat. USB cable attached.
4900.553	27.9	6.9	156.0	1.0	3.0	0.0	H-Horn	PK	0.0	34.8	54.0	-19.2	
4900.625	27.7	6.9	317.0	3.6	3.0	0.0	H-Horn	PK	0.0	34.6	54.0	-19.4	EUT flat.
4901.173	27.5	6.9	96.0	2.9	3.0	0.0	V-Horn	PK	0.0	34.4	54.0	-19.6	
4901.071	27.4	6.9	136.0	3.6	3.0	0.0	H-Horn	PK	0.0	34.3	54.0	-19.7	EUT on side.
4900.900	27.2	6.9	274.0	2.9	3.0	0.0	V-Horn	PK	0.0	34.1	54.0	-19.9	EUT flat.
4901.358	27.2	6.9	214.0	3.6	3.0	0.0	H-Horn	PK	0.0	34.1	54.0	-19.9	EUT on end.
4901.444	27.1	6.9	343.0	2.9	3.0	0.0	V-Horn	PK	0.0	34.0	54.0	-20.0	EUT on side.
4900.884	27.0	6.9	36.0	2.9	3.0	0.0	V-Horn	PK	0.0	33.9	54.0	-20.1	EUT on end.
7351.615	15.1	14.2	334.0	1.0	3.0	0.0	V-Horn	AV	0.0	29.3	54.0	-24.7	EUT flat. USB cable attached.
7352.619	15.1	14.2	261.0	1.0	3.0	0.0	H-Horn	AV	0.0	29.3	54.0	-24.7	EUT flat. USB cable attached.
4900.241	15.0	6.9	156.0	1.0	3.0	0.0	H-Horn	AV	0.0	21.9	54.0	-32.1	
4901.570	15.0	6.9	96.0	2.9	3.0	0.0	V-Horn	AV	0.0	21.9	54.0	-32.1	EUT flat. USB cable attached.
4900.272	14.9	6.9	136.0	3.6	3.0	0.0	H-Horn	AV	0.0	21.8	54.0	-32.2	EUT on side.
4900.475	14.9	6.9	36.0	2.9	3.0	0.0	V-Horn	AV	0.0	21.8	54.0	-32.2	EUT on end.
4900.832	14.9	6.9	214.0	3.6	3.0	0.0	H-Horn	AV	0.0	21.8	54.0	-32.2	EUT on end.
4900.937	14.9	6.9	274.0	2.9	3.0	0.0	V-Horn	AV	0.0	21.8	54.0	-32.2	EUT flat.
4901.013	14.9	6.9	343.0	2.9	3.0	0.0	V-Horn	AV	0.0	21.8	54.0	-32.2	EUT on side.
4901.028	14.9	6.9	317.0	3.6	3.0	0.0	H-Horn	AV	0.0	21.8	54.0	-32.2	EUT flat.




InFocus



AC POWERLINE CONDUCTED 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
Tx, Mid Channel
Tx, Low Channel
Tx, High Channel

POWER SETTINGS INVESTIGATED
120V/60Hz

CONFIGURATIONS INVESTIGATED
INFO0377 - 2

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
EV07 Cables		Conducted Cables	EVG	5/2/2008	13 mo
High Pass Filter	T.T.E.	7766	HFG	2/23/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	6/30/2008	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	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 16-4-2. 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 EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

NORTHWEST

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AC POWERLINE CONDUCTED EMISSIONS

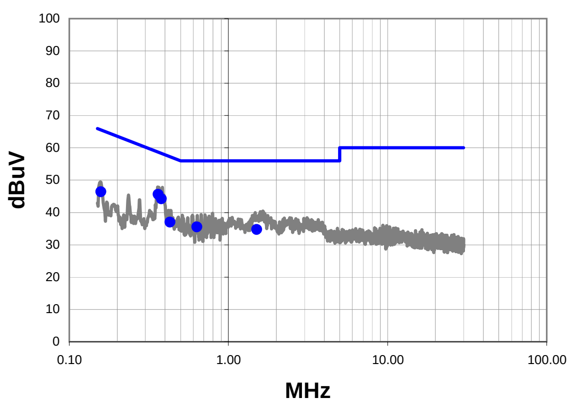
Work Order:	INFO0377	**Date:**	04/30/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	33	
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:** Jennifer Herrett

EUT:	PBP
Configuration:	2 - Basic Configuration - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	120V/60Hz
Operating Mode:	Tx, High Channel
Deviations:	No deviations.
Comments:	None

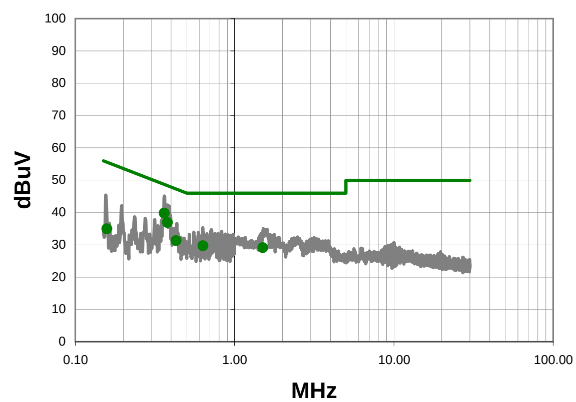
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2009		ANSI C63.4:2003

Run #	1	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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 (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.363	24.6	21.0	45.6	58.7	-13.1
0.380	23.3	21.0	44.3	58.3	-14.0
0.158	24.5	21.9	46.4	65.6	-19.2
0.430	16.1	20.9	37.0	57.3	-20.2
0.635	14.7	20.8	35.5	56.0	-20.5
1.508	14.1	20.6	34.7	56.0	-21.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.363	18.8	21.0	39.8	48.7	-8.9
0.380	15.9	21.0	36.9	48.3	-11.4
0.430	10.3	20.9	31.2	47.3	-16.0
0.635	8.9	20.8	29.7	46.0	-16.3
1.508	8.5	20.6	29.1	46.0	-16.9
0.158	13.0	21.9	34.9	55.6	-20.7

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AC POWERLINE CONDUCTED EMISSIONS

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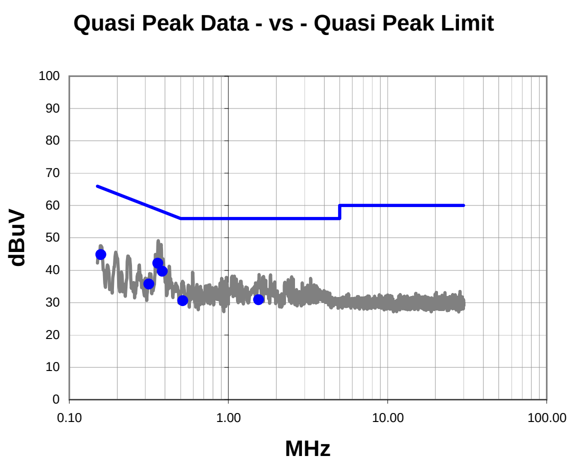
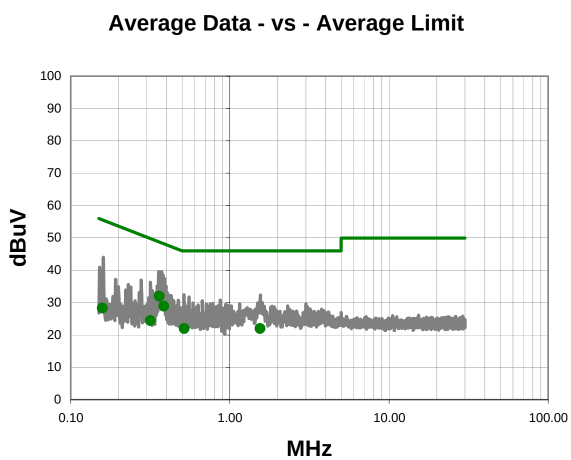
Work Order:	INFO0377	**Date:**	04/30/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	33	
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:** Jennifer Herrett

EUT:	PBP
Configuration:	2 - Basic Configuration - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	120V/60Hz
Operating Mode:	Tx, High Channel
Deviations:	No deviations.
Comments:	None

Test Specifications	**Class B**	**Test Method**
FCC 15.207:2009		ANSI C63.4:2003

Run #	2	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.361	21.2	21.0	42.2	58.7	-16.5
0.385	18.7	21.0	39.7	58.2	-18.5
0.158	22.9	21.9	44.8	65.6	-20.8
0.317	14.7	21.0	35.7	59.8	-24.1
1.552	10.3	20.6	30.9	56.0	-25.1
0.518	9.7	20.9	30.6	56.0	-25.4

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.361	11.0	21.0	32.0	48.7	-16.7
0.385	7.9	21.0	28.9	48.2	-19.3
1.552	1.4	20.6	22.0	46.0	-24.0
0.518	1.1	20.9	22.0	46.0	-24.0
0.317	3.4	21.0	24.4	49.8	-25.4
0.158	6.4	21.9	28.3	55.6	-27.3

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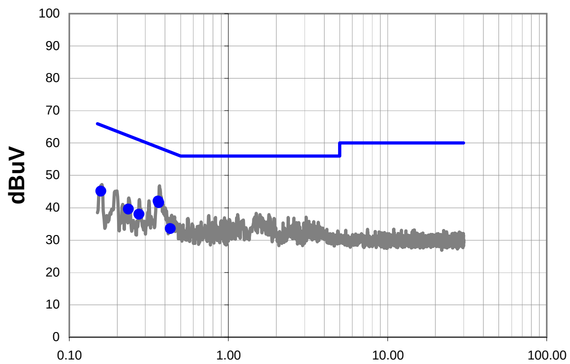
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	**Date:**	04/30/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	33	
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:** Jennifer Herrett
EUT:	PBP			
Configuration:	2 - Basic Configuration - PBP			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Tx, Low Channel			
Deviations:	No deviations.			
Comments:	None			

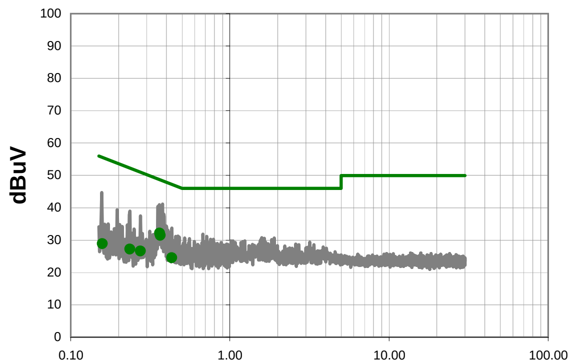
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2009		ANSI C63.4:2003

Run #	3	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

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 (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.362	21.1	21.0	42.1	58.7	-16.6
0.366	20.6	21.0	41.6	58.6	-17.0
0.158	23.2	21.9	45.1	65.6	-20.5
0.235	18.5	21.0	39.5	62.3	-22.7
0.274	17.0	21.0	38.0	61.0	-23.0
0.432	12.6	20.9	33.5	57.2	-23.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.362	11.2	21.0	32.2	48.7	-16.5
0.366	10.5	21.0	31.5	48.6	-17.1
0.432	3.6	20.9	24.5	47.2	-22.7
0.274	5.6	21.0	26.6	51.0	-24.4
0.235	6.2	21.0	27.2	52.3	-25.0
0.158	7.0	21.9	28.9	55.6	-26.7

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AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2008.12.15
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Work Order:	INFO0377	**Date:**	04/30/09	
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	33	
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:** Jennifer Herrett

Jennifer Herrett

EUT:	PBP
Configuration:	2 - Basic Configuration - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	120V/60Hz
Operating Mode:	Tx, Low Channel
Deviations:	No deviations.
Comments:	None

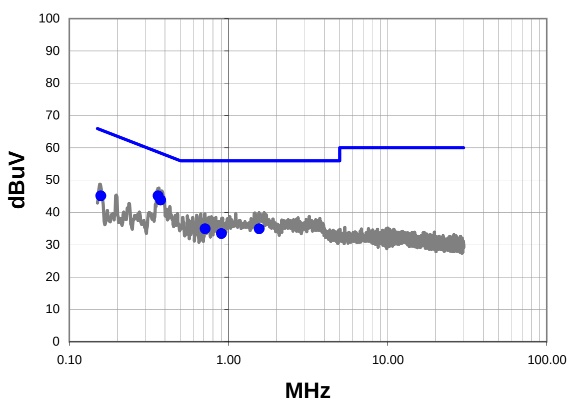
Test Specifications — **Class B**

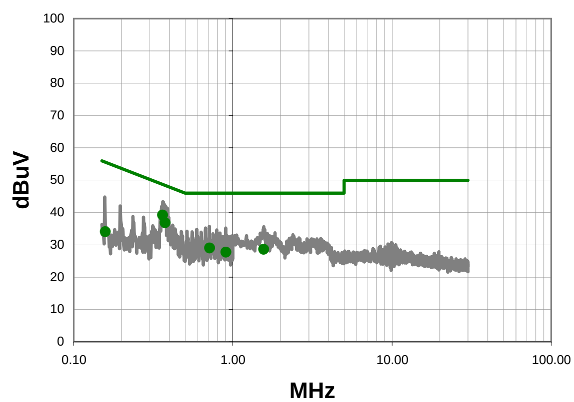
FCC 15.207:2009

Test Method

ANSI C63.4:2003

Run #	4	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.363	24.1	21.0	45.1	58.7	-13.6
0.376	22.9	21.0	43.9	58.4	-14.5
0.158	23.2	21.9	45.1	65.6	-20.5
0.715	14.2	20.8	35.0	56.0	-21.0
1.568	14.3	20.6	34.9	56.0	-21.1
0.904	12.8	20.6	33.4	56.0	-22.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.363	18.2	21.0	39.2	48.7	-9.5
0.376	15.8	21.0	36.8	48.4	-11.6
0.715	8.2	20.8	29.0	46.0	-17.0
1.568	8.0	20.6	28.6	46.0	-17.4
0.904	7.1	20.6	27.7	46.0	-18.3
0.158	12.1	21.9	34.0	55.6	-21.6

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AC POWERLINE CONDUCTED EMISSIONS

PSA-ESCI 2008.12.15
Version 2008.3.31

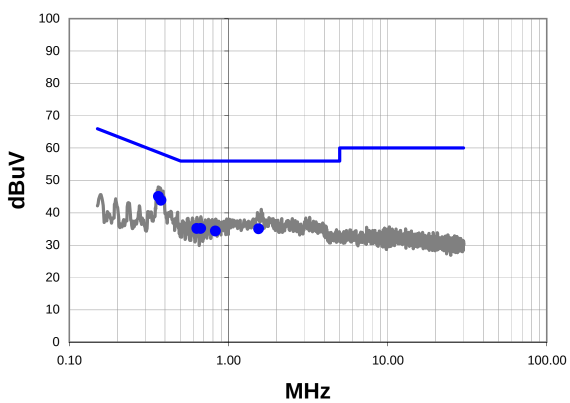
Work Order:	INFO0377	**Date:**	04/30/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	33	
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:** Jennifer Herrett

EUT:	PBP
Configuration:	2 - Basic Configuration - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	120V/60Hz
Operating Mode:	Tx, Mid Channel
Deviations:	No deviations.
Comments:	None

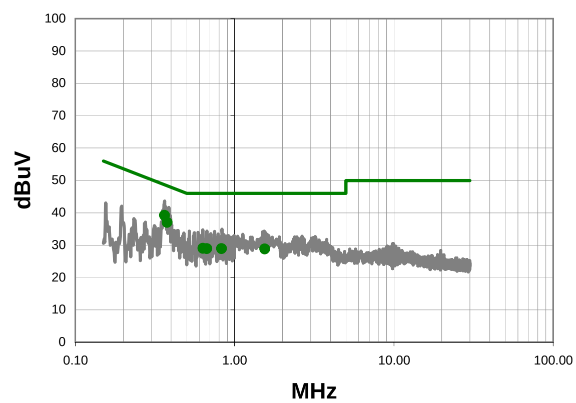
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2009		ANSI C63.4:2003

Run #	5	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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 (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.364	24.0	21.0	45.0	58.6	-13.7
0.378	22.9	21.0	43.9	58.3	-14.5
0.633	14.3	20.8	35.1	56.0	-20.9
0.672	14.3	20.8	35.1	56.0	-20.9
1.548	14.4	20.6	35.0	56.0	-21.0
0.831	13.6	20.7	34.3	56.0	-21.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.364	18.2	21.0	39.2	48.6	-9.5
0.378	16.0	21.0	37.0	48.3	-11.4
0.633	8.2	20.8	29.0	46.0	-17.0
0.831	8.2	20.7	28.9	46.0	-17.1
0.672	8.1	20.8	28.9	46.0	-17.1
1.548	8.2	20.6	28.8	46.0	-17.2

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AC POWERLINE CONDUCTED EMISSIONS

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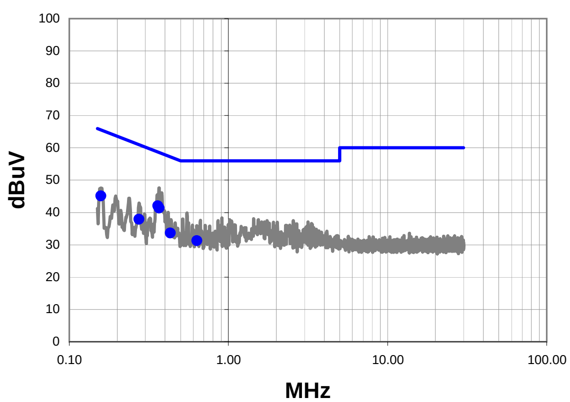
Work Order:	INFO0377	**Date:**	04/30/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	33	
Serial Number:	None	**Barometric Pres.:**	30.03	**Tested by:** Jennifer Herrett

EUT:	PBP
Configuration:	2 - Basic Configuration - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	120V/60Hz
Operating Mode:	Tx, Mid Channel
Deviations:	No deviations.
Comments:	None

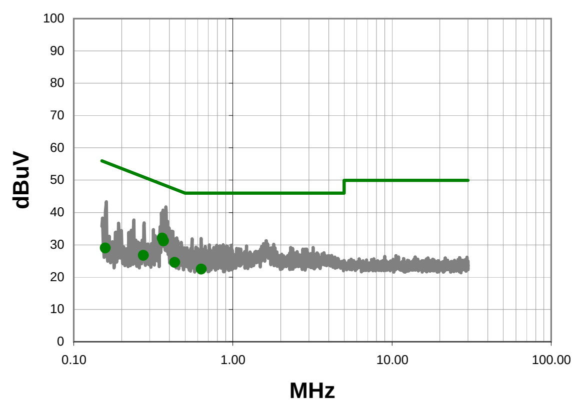
Test Specifications	**Class B**	**Test Method**	
FCC 15.207:2009		ANSI C63.4:2003	

Run #	6	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

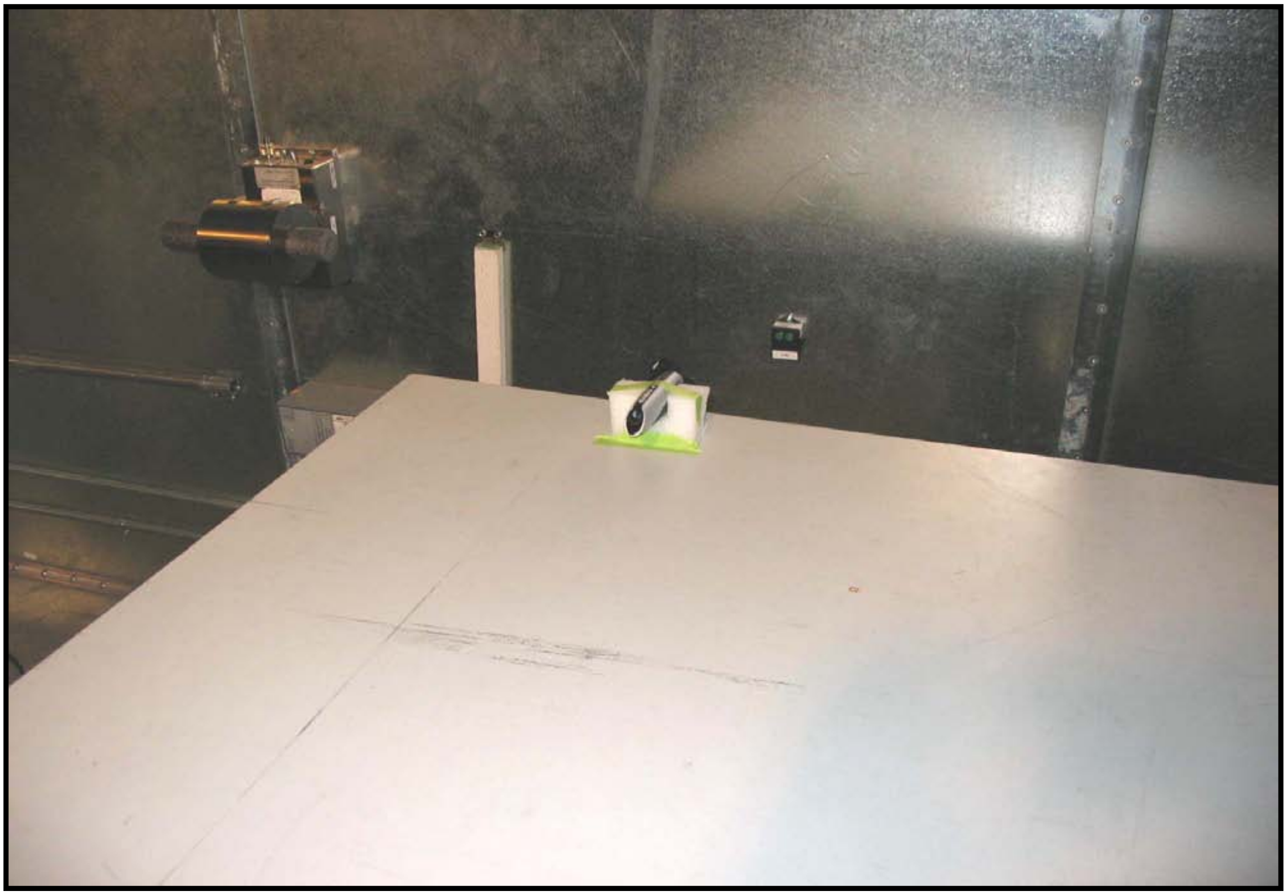


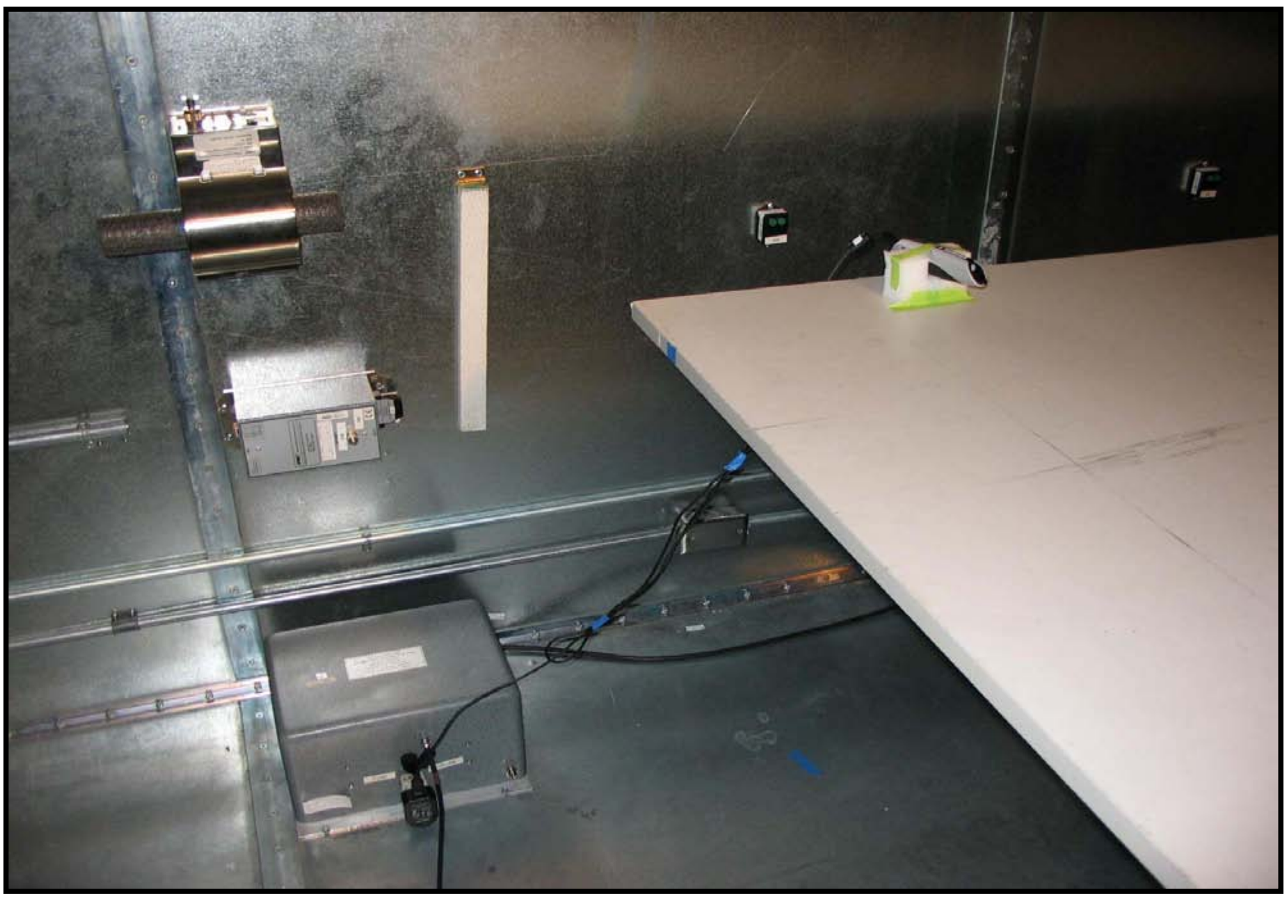
Quasi Peak Data - vs - Quasi Peak Limit

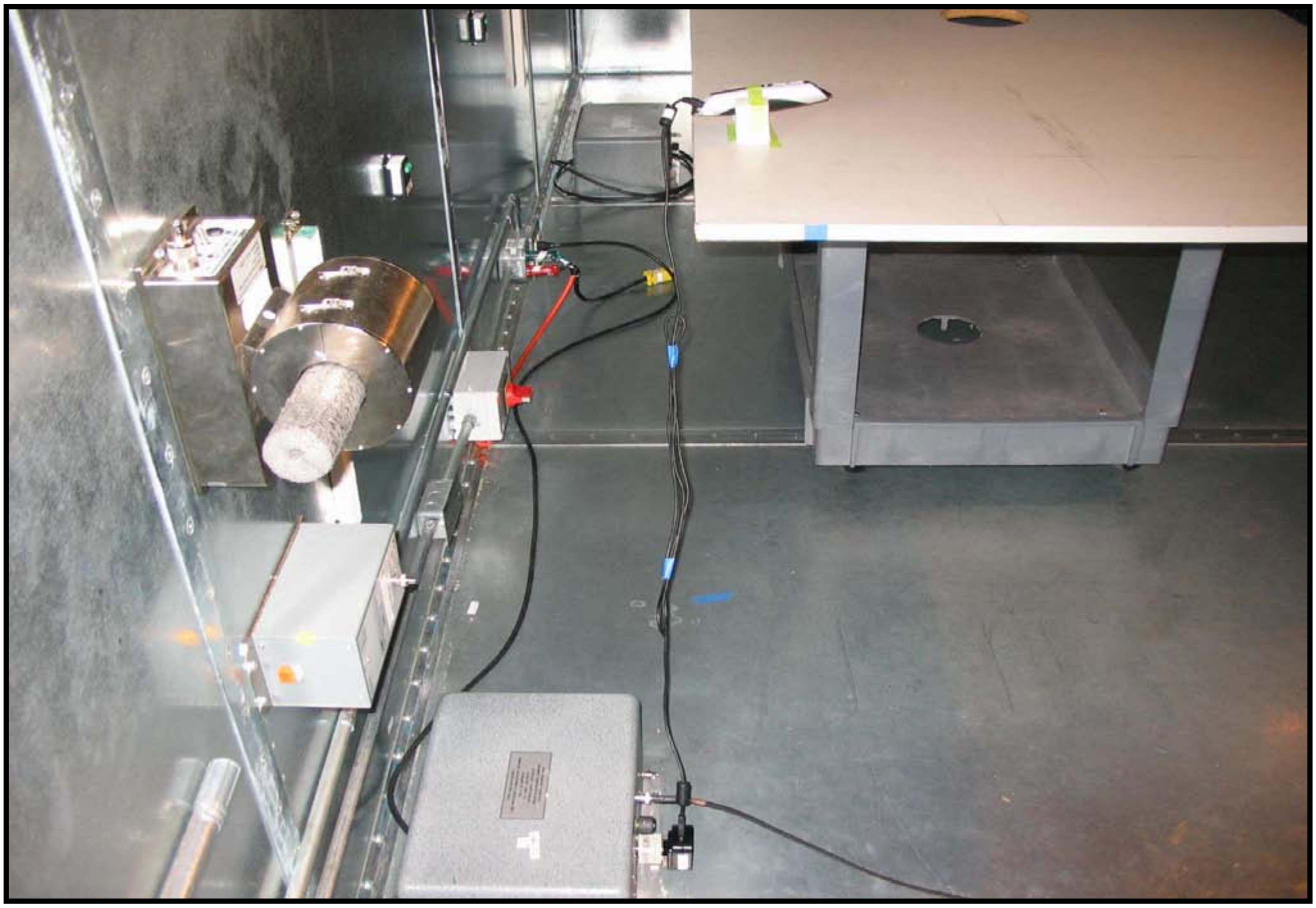
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.360	21.1	21.0	42.1	58.7	-16.7
0.368	20.4	21.0	41.4	58.5	-17.2
0.158	23.2	21.9	45.1	65.6	-20.5
0.274	16.9	21.0	37.9	61.0	-23.1
0.432	12.7	20.9	33.6	57.2	-23.6
0.635	10.4	20.8	31.2	56.0	-24.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.360	11.1	21.0	32.1	48.7	-16.7
0.368	10.2	21.0	31.2	48.5	-17.4
0.432	3.6	20.9	24.5	47.2	-22.7
0.635	1.6	20.8	22.4	46.0	-23.6
0.274	5.7	21.0	26.7	51.0	-24.3
0.158	7.1	21.9	29.0	55.6	-26.6







AC POWERLINE CONDUCTED 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

Rx, Mid Channel

POWER SETTINGS INVESTIGATED

120V/60Hz

CONFIGURATIONS INVESTIGATED

INFO0377 - 3

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	8/28/2008	24 mo
High Pass Filter	T.T.E.	7766	HFG	2/23/2009	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	6/30/2008	13 mo
EV07 Cables		Conducted Cables	EVG	5/2/2008	13 mo
LISN	Solar	9252-50-R-24-BNC	LIR	2/4/2009	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 16-4-2. 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 EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the middle channel in the operational band in a receive mode of operation. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-2003.

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AC POWERLINE CONDUCTED EMISSIONS

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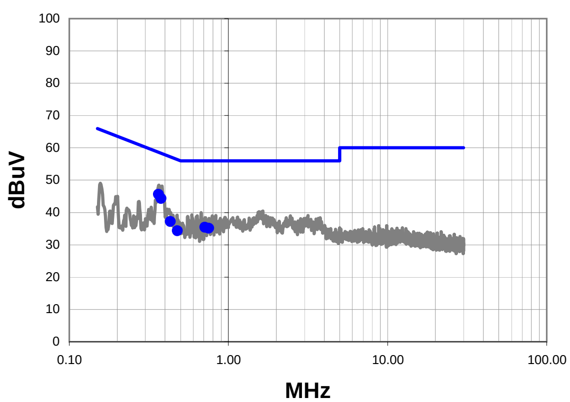
Work Order:	INFO0377	**Date:**	05/06/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	43	
Serial Number:	None	**Barometric Pres.:**	1016.4	**Tested by:** Jennifer Herrett

EUT:	PBP
Configuration:	2 - Basic Configuration - PBP
Customer:	InFocus Corporation
Attendees:	None
EUT Power:	120V/60Hz
Operating Mode:	Rx, Mid Channel
Deviations:	No deviations.
Comments:	None

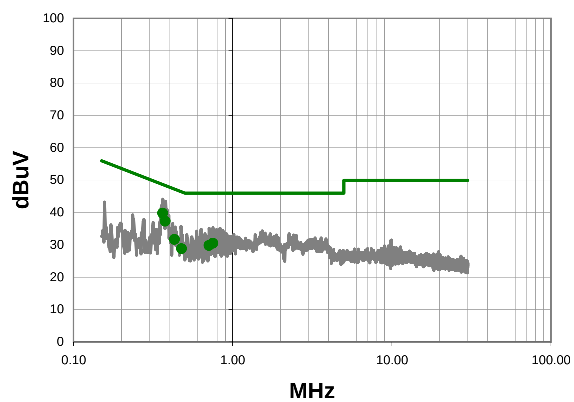
Test Specifications	**Test Method**
RSS-Gen:2007	RSS-Gen :2007

Run #	9	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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 (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.364	24.6	21.0	45.6	58.6	-13.1
0.378	23.4	21.0	44.4	58.3	-14.0
0.432	16.3	20.9	37.2	57.2	-20.0
0.713	14.7	20.8	35.5	56.0	-20.5
0.752	14.4	20.7	35.1	56.0	-20.9
0.479	13.4	20.9	34.3	56.4	-22.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.364	18.8	21.0	39.8	48.6	-8.9
0.378	16.3	21.0	37.3	48.3	-11.1
0.752	9.7	20.7	30.4	46.0	-15.6
0.432	10.7	20.9	31.6	47.2	-15.6
0.713	9.0	20.8	29.8	46.0	-16.2
0.479	7.9	20.9	28.8	46.4	-17.6

NORTHWEST

EMC

PSA-ESCI 2008.12.15
Version 2008.3.31

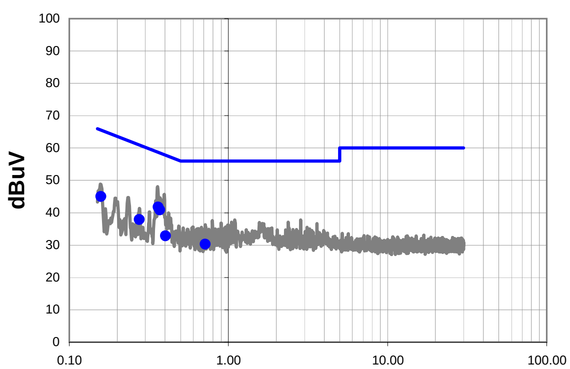
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INFO0377	**Date:**	05/06/09	Jennifer Herrett
Project:	None	**Temperature:**	21	
Job Site:	EV07	**Humidity:**	43	
Serial Number:	None	**Barometric Pres.:**	1016.4	**Tested by:** Jennifer Herrett
EUT:	PBP			
Configuration:	2 - Basic Configuration - PBP			
Customer:	InFocus Corporation			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Rx, Mid Channel			
Deviations:	No deviations.			
Comments:	None			

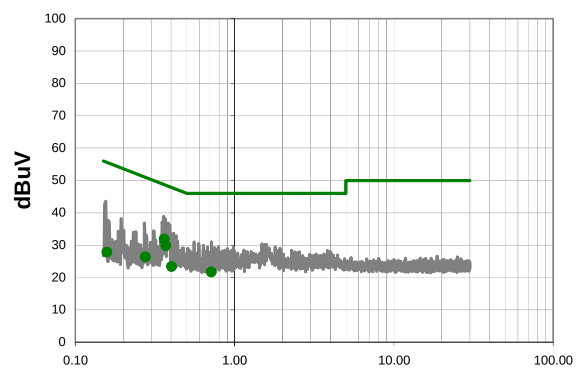
Test Specifications	**Test Method**
RSS-Gen:2007	RSS-Gen :2007

Run #	10	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

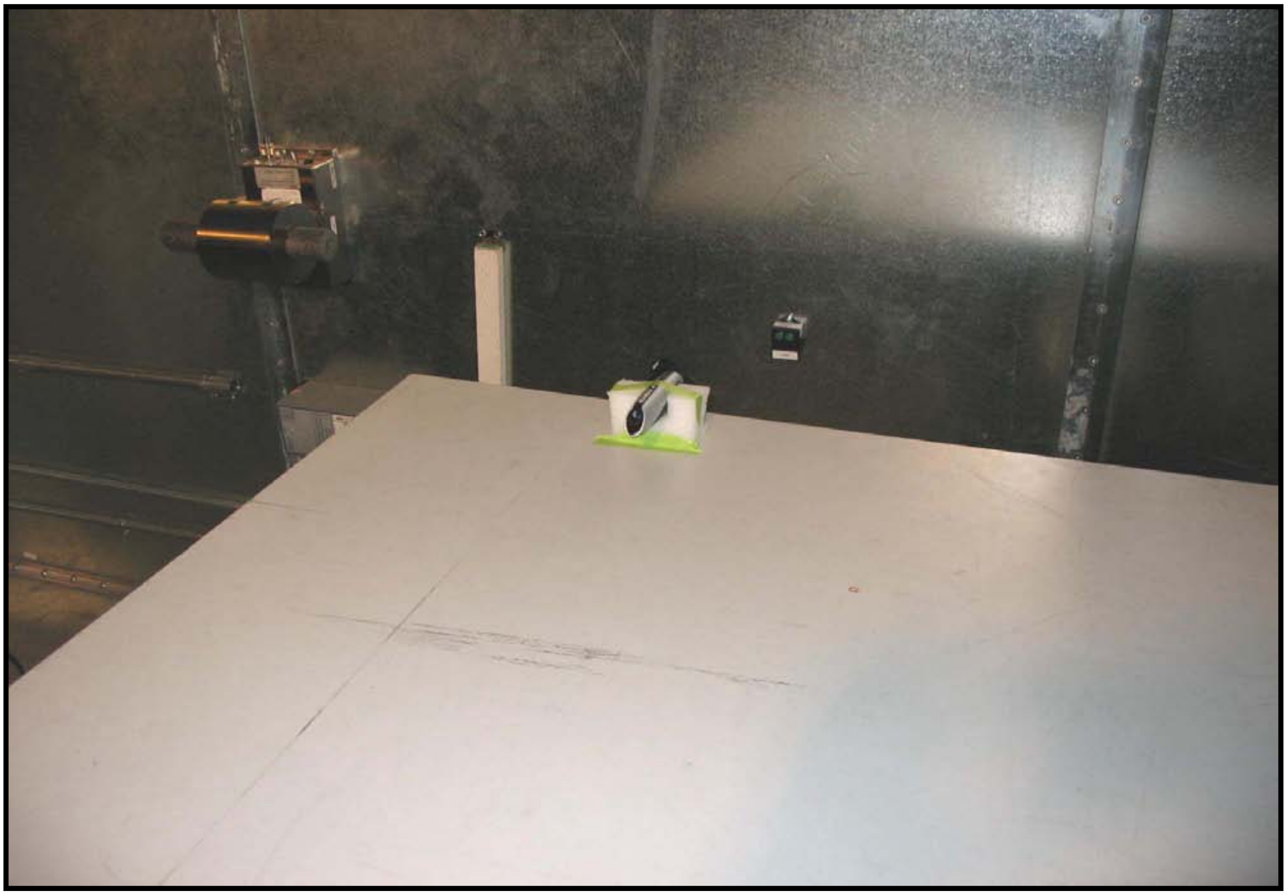


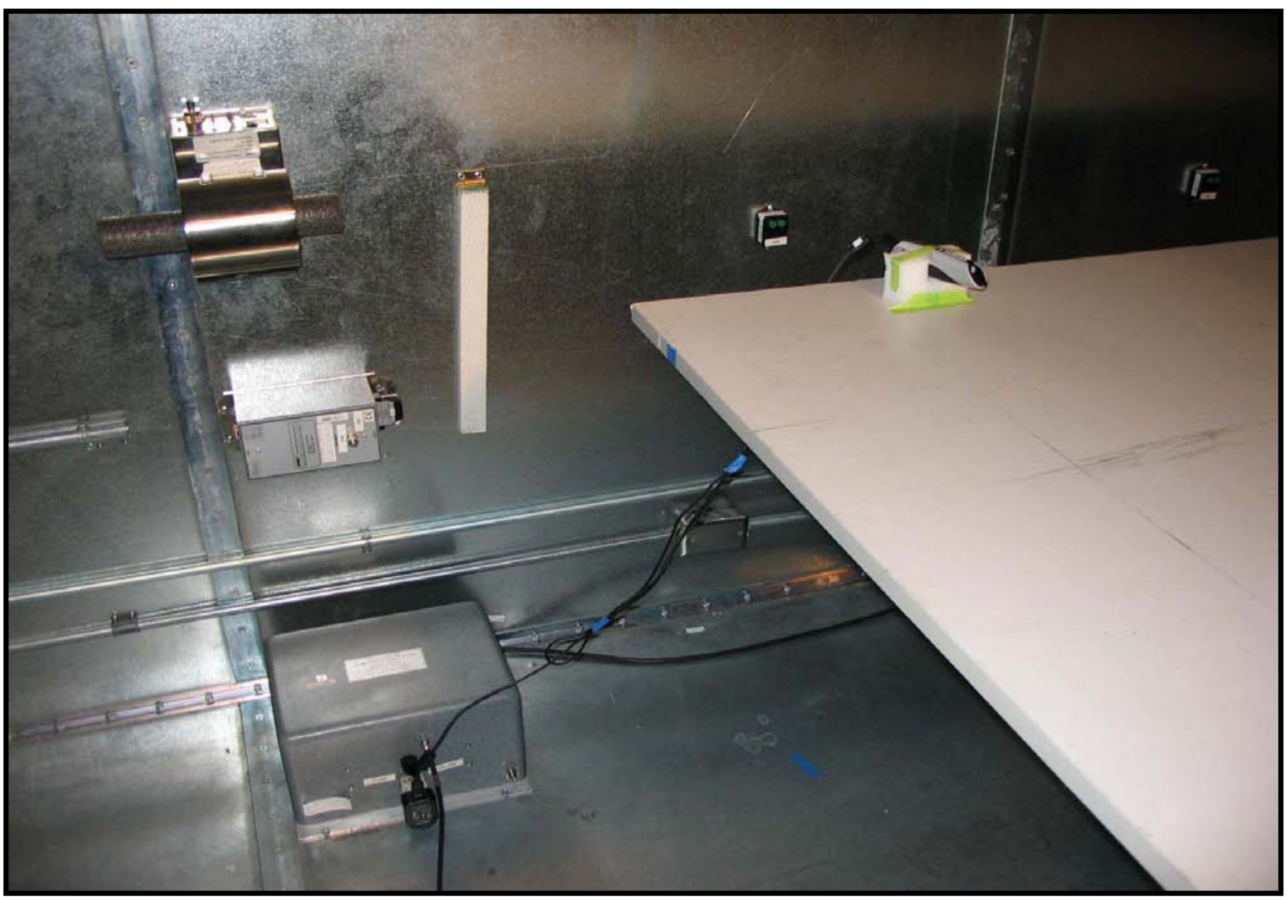
Quasi Peak Data - vs - Quasi Peak Limit

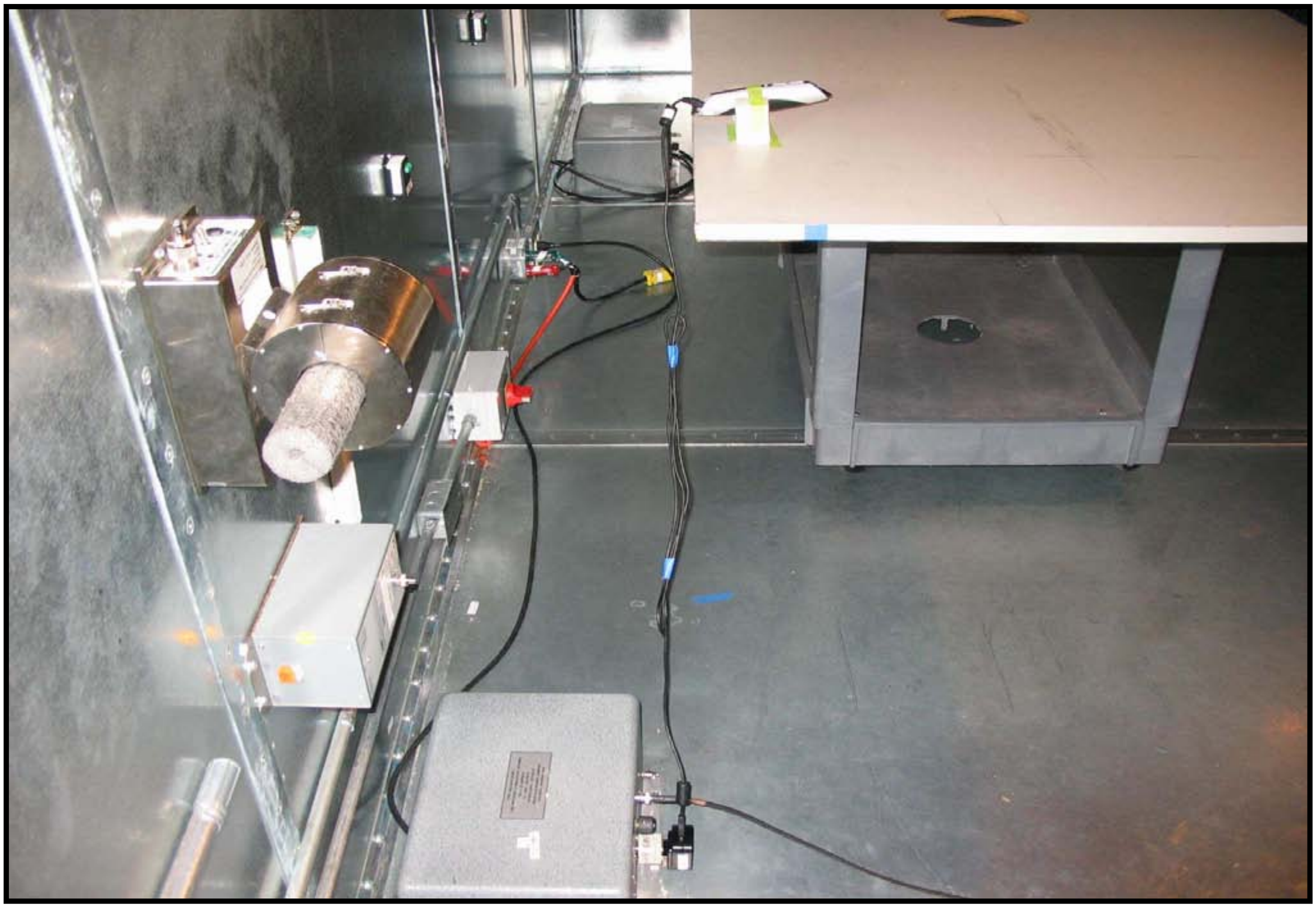
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.363	20.8	21.0	41.8	58.7	-16.9
0.371	19.9	21.0	40.9	58.5	-17.6
0.158	23.1	21.9	45.0	65.6	-20.6
0.276	16.9	21.0	37.9	60.9	-23.0
0.403	11.9	20.9	32.8	57.8	-24.9
0.714	9.5	20.8	30.3	56.0	-25.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.363	10.9	21.0	31.9	48.7	-16.8
0.371	8.8	21.0	29.8	48.5	-18.7
0.714	0.9	20.8	21.7	46.0	-24.3
0.403	2.4	20.9	23.3	47.8	-24.4
0.276	5.3	21.0	26.3	50.9	-24.6
0.158	5.9	21.9	27.8	55.6	-27.8







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
Near Field Probe	EMCO	7405	IPD	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Spectrum Analyzer	Agilent	E4407B	AAU	12/12/2008	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 16-4-2. 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% occupied bandwidth was measured with the EUT configured for continuous modulated operation at its middle transmit frequency. The spectrum analyzer's resolution bandwidth was >= 1% of the 20dB bandwidth and the video bandwidth was at least 3 times the resolution bandwidth.

NORTHWEST
EMC

XMit 2008.12.29

OCCUPIED BANDWIDTH

EUT:	**PBP**			**Work Order:**	**INFO0377**
Serial Number:	**None**			**Date:**	**05/06/09**
Customer:	**InFocus Corporation**			**Temperature:**	**21**
Attendees:	**None**			**Humidity:**	**33%**
Project:	**None**			**Barometric Pres.:**	**1023**
Tested by:	**Ethan Schoonover**	**Power:**	**Battery**	**Job Site:**	**EV06**

TEST SPECIFICATIONS	Test Method
RSS-Gen:2007	RSS-Gen :2007

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

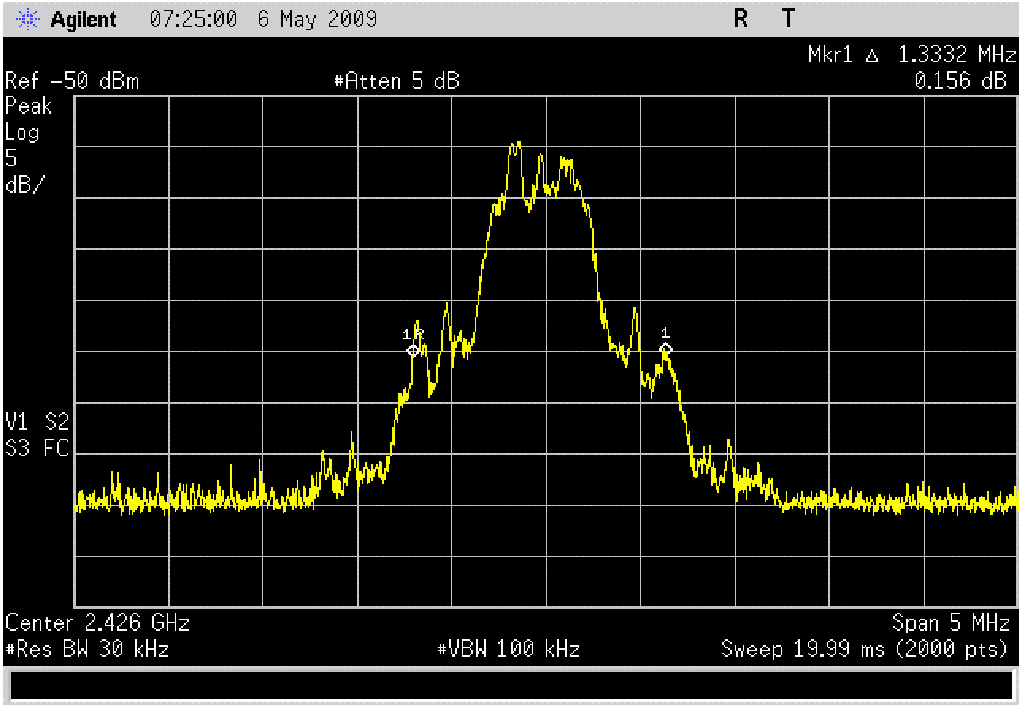
No Deviations

Configuration #	**4**	*Signature*

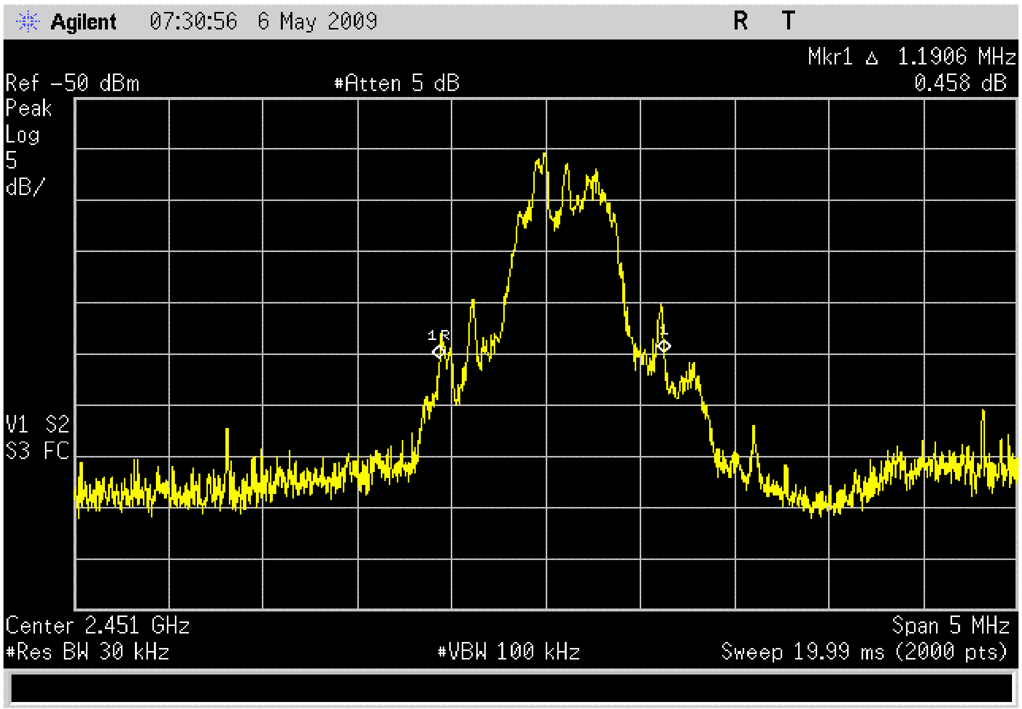
	Value	Limit	Results
Low Channel	1.332MHz	N/A	Pass
Mid Channel	1.190MHz	N/A	Pass
High Channel	1.178MHz	N/A	Pass

OCCUPIED BANDWIDTH

Low Channel					
Result:	Pass	**Value:**	1.332MHz	**Limit:**	N/A

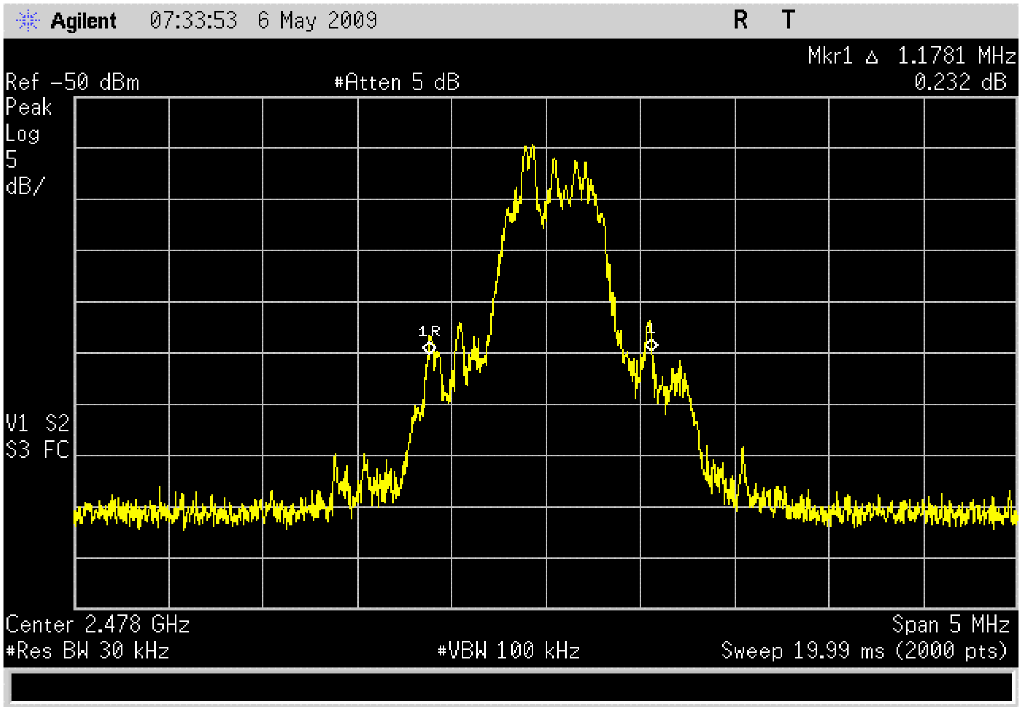


Mid Channel					
Result:	Pass	**Value:**	1.190MHz	**Limit:**	N/A



OCCUPIED BANDWIDTH

High Channel					
Result:	Pass	**Value:**	1.178MHz	**Limit:**	N/A



Field Strength of Fundamental

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

Tx

MODE USED FOR FINAL DATA

Tx

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	2400MHz	Stop Frequency	2483.5MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E44440A	AFA	11/14/2008	12
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Antenna, Horn	ETS	3115	AIB	8/25/2008	24

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 16-4-2. 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).

NORTHWEST
EMC

Field Strength of Fundamental

PSA 2007.05.07
EMI 2008.1.9

EUT:	PBP	**Work Order:**	INFO0377
Serial Number:	None	**Date:**	05/05/09
Customer:	InFocus Corporation	**Temperature:**	21
Attendees:	None	**Humidity:**	42%
Project:	None	**Barometric Pres.:**	29.71
Tested by:	Jennifer Herrett **Power:** 120VAC/60Hz	**Job Site:**	EV12

TEST SPECIFICATIONS — Test Method

FCC 15.249:2009 — ANSI C63.4:2003

TEST PARAMETERS

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

COMMENTS

None

EUT OPERATING MODES

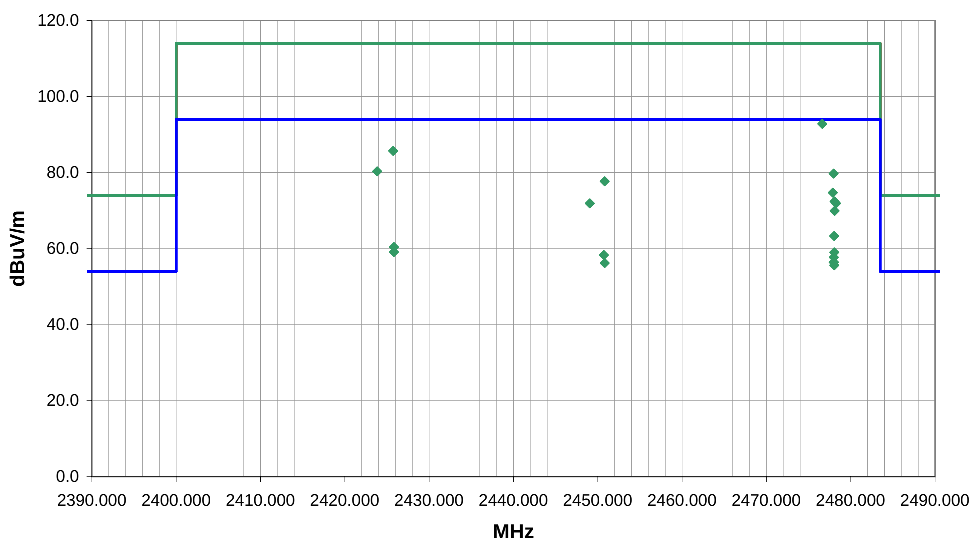
Tx

DEVIATIONS FROM TEST STANDARD

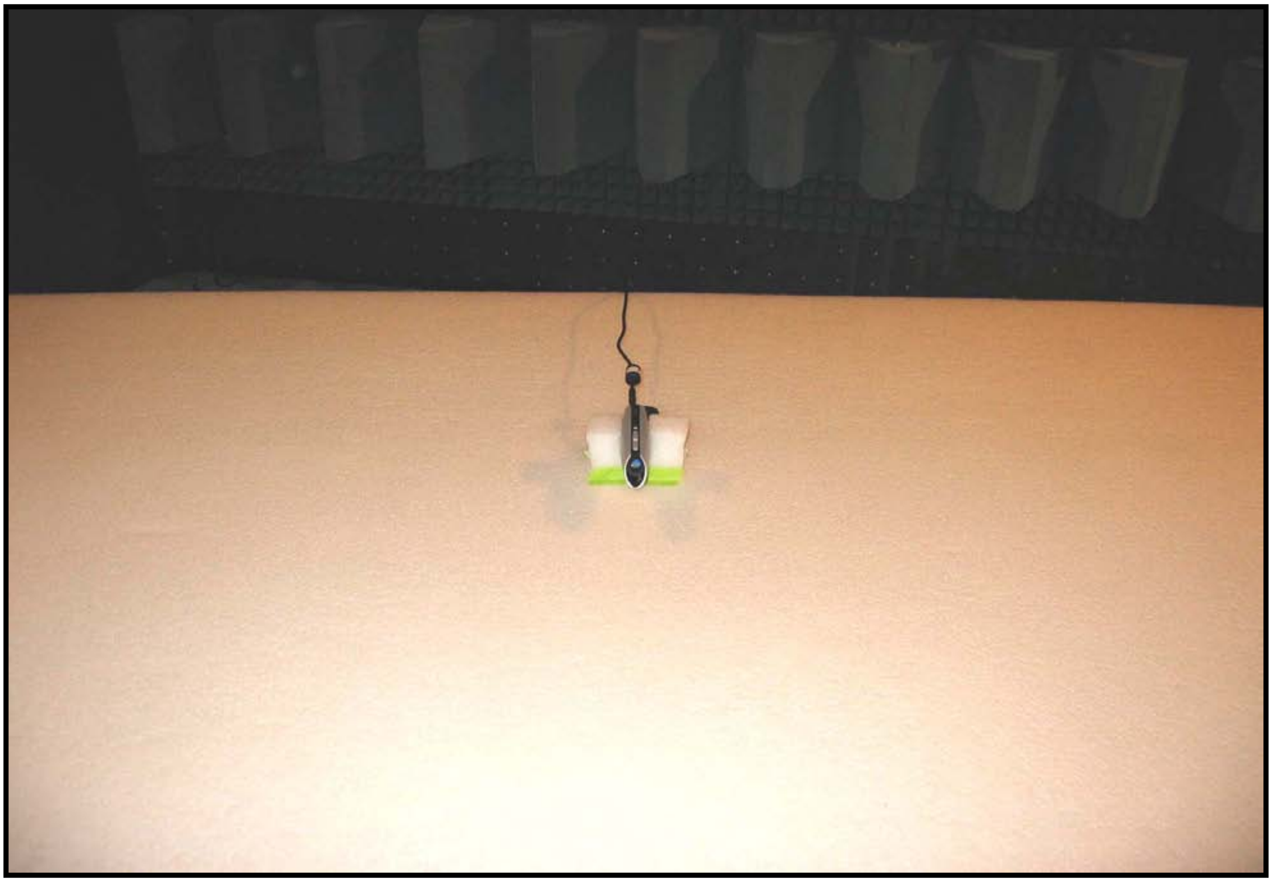
No deviations.

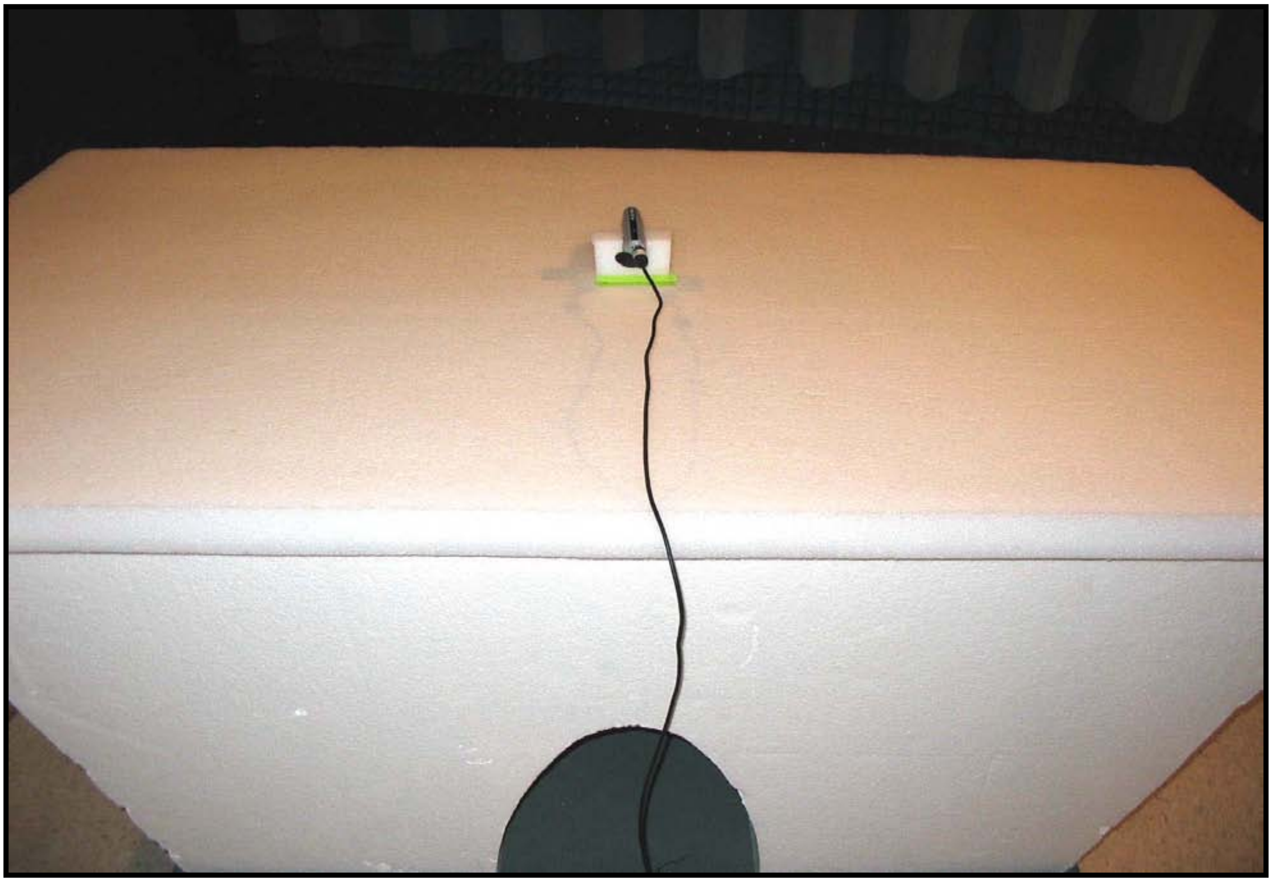
Run #	11
Configuration #	2
Results	Pass

Signature Jennifer Herrett



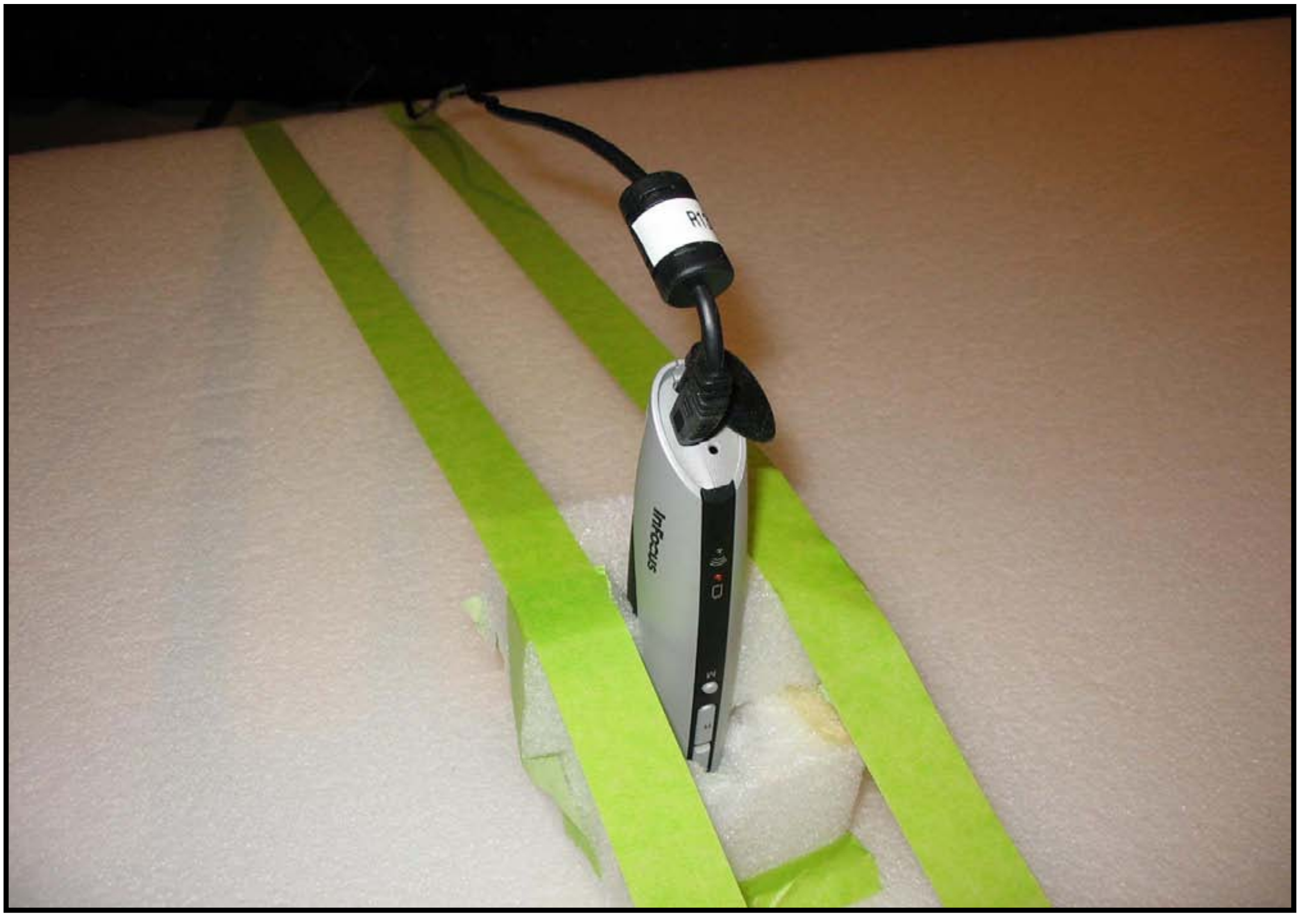
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2476.625	58.2	34.6	41.0	1.0	3.0	0.0	H-Horn	PK	0.0	92.8	114.0	-21.2	High Channel, EUT horizontal
2425.733	51.1	34.6	315.0	1.0	3.0	0.0	H-Horn	PK	0.0	85.7	114.0	-28.3	Low Channel, EUT horizontal
2478.033	28.7	34.6	41.0	1.0	3.0	0.0	H-Horn	AV	0.0	63.3	94.0	-30.7	High Channel, EUT horizontal
2425.817	25.8	34.6	315.0	1.0	3.0	0.0	H-Horn	AV	0.0	60.4	94.0	-33.6	Low Channel, EUT horizontal
2423.833	45.7	34.6	99.0	1.0	3.0	0.0	V-Horn	PK	0.0	80.3	114.0	-33.7	Low Channel, EUT horizontal
2477.967	45.1	34.6	263.0	1.0	3.0	0.0	V-Horn	PK	0.0	79.7	114.0	-34.3	High Channel, EUT horizontal
2425.825	24.5	34.6	99.0	1.0	3.0	0.0	V-Horn	AV	0.0	59.1	94.0	-34.9	Low Channel, EUT horizontal
2478.042	24.4	34.6	263.0	1.0	3.0	0.0	V-Horn	AV	0.0	59.0	94.0	-35.0	High Channel, EUT horizontal
2450.725	23.7	34.6	110.0	1.0	3.0	0.0	V-Horn	AV	0.0	58.3	94.0	-35.7	Mid Channel, EUT horizontal
2477.992	23.1	34.6	0.0	1.6	3.0	0.0	H-Horn	AV	0.0	57.7	94.0	-36.3	High Channel, EUT on side
2450.825	43.1	34.6	110.0	1.0	3.0	0.0	V-Horn	PK	0.0	77.7	114.0	-36.3	Mid Channel, EUT horizontal
2477.975	21.8	34.6	271.0	1.6	3.0	0.0	H-Horn	AV	0.0	56.4	94.0	-37.6	High Channel, EUT vertical
2478.000	21.8	34.6	344.0	1.0	3.0	0.0	V-Horn	AV	0.0	56.4	94.0	-37.6	High Channel, EUT vertical
2450.825	21.6	34.6	0.0	2.0	3.0	0.0	H-Horn	AV	0.0	56.2	94.0	-37.8	Mid Channel, EUT horizontal
2478.050	21.0	34.6	192.0	1.0	3.0	0.0	V-Horn	AV	0.0	55.6	94.0	-38.4	High Channel, EUT on side
2477.867	40.1	34.6	0.0	1.6	3.0	0.0	H-Horn	PK	0.0	74.7	114.0	-39.3	High Channel, EUT on side
2478.083	37.8	34.6	271.0	1.6	3.0	0.0	H-Horn	PK	0.0	72.4	114.0	-41.6	High Channel, EUT vertical
2449.042	37.3	34.6	0.0	2.0	3.0	0.0	H-Horn	PK	0.0	71.9	114.0	-42.1	Mid Channel, EUT horizontal
2478.258	37.3	34.6	344.0	1.0	3.0	0.0	V-Horn	PK	0.0	71.9	114.0	-42.1	High Channel, EUT vertical
2478.075	35.3	34.6	192.0	1.0	3.0	0.0	V-Horn	PK	0.0	69.9	114.0	-44.1	High Channel, EUT on side






InFocus

Field Strength of Fundamental



Field Strength of Harmonics

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

Tx

MODE USED FOR FINAL DATA

Tx

POWER SETTINGS INVESTIGATED

120VAC/60Hz

POWER SETTINGS USED FOR FINAL DATA

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	12500 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	12/2/2008	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	12/2/2008	13
Antenna, Horn	ETS	3160-09	AHG	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	5/14/2008	13
Antenna, Horn	ETS	3160-08	AIA	NCR	0
EV12 Cables		Standard Gain Horn Cables	EVU	5/14/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	5/14/2008	13
Antenna, Horn	ETS	3160.07	AHZ	10/14/2008	24
Attenuator	Pasternack	PE7005-20	AUN	5/10/2008	13
High Pass Filter	Micro-Tronics	50111	HGE	5/14/2008	13
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	6/17/2008	13
Antenna, Horn	ETS	3115	AIB	8/25/2008	24
Spectrum Analyzer	Agilent	E44440A	AFA	11/14/2008	12
EV12 Cables		Bilog Cables	EVS	6/17/2008	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	6/17/2008	13
Antenna, Biconilog	EMCO	3141	AXG	11/4/2008	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 16-4-2. 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 of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST
EMC

Field Strength of Harmonics

PSA 2007.05.07
EMI 2008.1.9

EUT:	**PBP**			**Work Order:**	**INFO0377**
Serial Number:	**None**			**Date:**	**05/04/09**
Customer:	**InFocus Corporation**			**Temperature:**	**21**
Attendees:	**None**			**Humidity:**	**33%**
Project:	**None**			**Barometric Pres.:**	**30.03**
Tested by:	**Ethan Schoonover**	**Power:**	**120VAC/60Hz**	**Job Site:**	**EV12**

TEST SPECIFICATIONS | Test Method

FCC 15.249:2009 | ANSI C63.4:2003

TEST PARAMETERS

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

COMMENTS

None

EUT OPERATING MODES

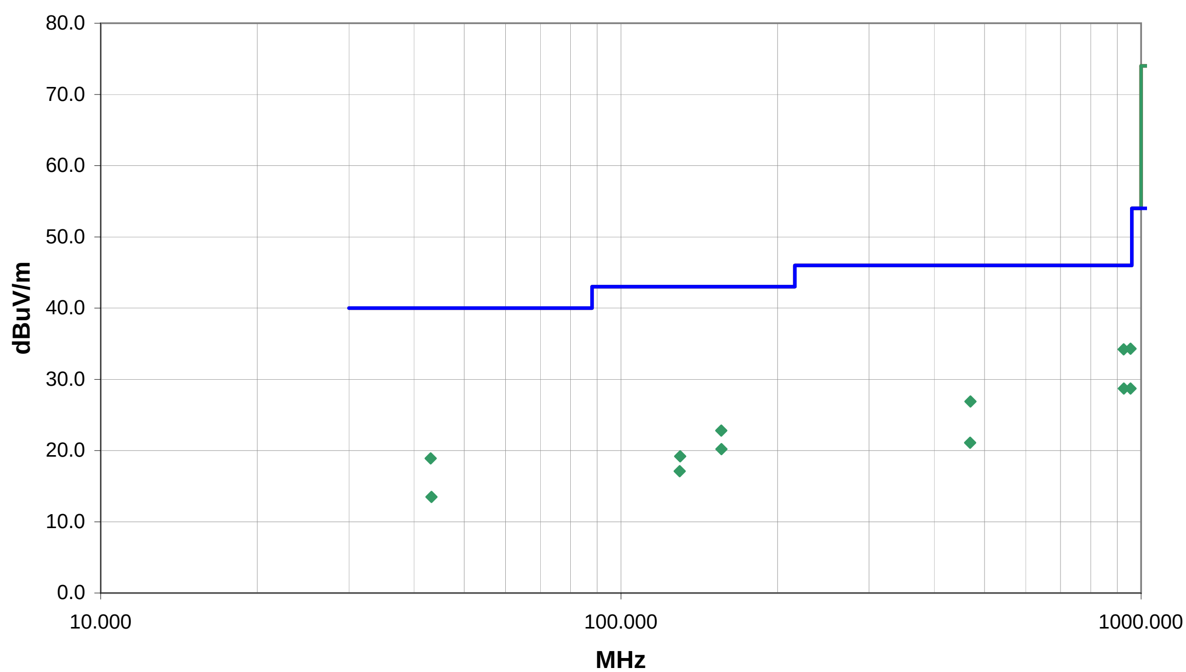
Tx

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	**8**
Configuration #	**2**
Results	**Pass**

Signature



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)
954.181	21.0	13.3	205.0	1.2	3.0	0.0	H-Bilog	PK	0.0	34.3	46.0	-11.7
925.798	21.0	13.2	199.0	1.7	3.0	0.0	H-Bilog	PK	0.0	34.2	46.0	-11.8
926.477	15.5	13.2	199.0	1.7	3.0	0.0	H-Bilog	QP	0.0	28.7	46.0	-17.3
954.406	15.4	13.3	205.0	1.2	3.0	0.0	H-Bilog	QP	0.0	28.7	46.0	-17.3
469.821	21.6	5.3	118.0	1.7	3.0	0.0	H-Bilog	PK	0.0	26.9	46.0	-19.1
155.983	27.8	-5.0	112.0	1.7	3.0	0.0	H-Bilog	PK	0.0	22.8	43.0	-20.2
43.094	22.9	-4.0	320.0	1.7	3.0	0.0	H-Bilog	PK	0.0	18.9	40.0	-21.1
156.008	25.2	-5.0	112.0	1.7	3.0	0.0	H-Bilog	QP	0.0	20.2	43.0	-22.8
130.007	26.3	-7.1	151.0	1.7	3.0	0.0	H-Bilog	QP	0.0	19.2	43.0	-23.8
469.297	15.8	5.3	118.0	1.7	3.0	0.0	H-Bilog	QP	0.0	21.1	46.0	-24.9
129.728	24.2	-7.1	151.0	1.7	3.0	0.0	H-Bilog	PK	0.0	17.1	43.0	-25.9
43.238	17.4	-3.9	320.0	1.7	3.0	0.0	H-Bilog	QP	0.0	13.5	40.0	-26.5

NORTHWEST
EMC

Field Strength of Harmonics

PSA 2007.05.07
EMI 2008.1.9

EUT:	PBP	Work Order:	INFO0377
Serial Number:	None	Date:	05/05/09
Customer:	InFocus Corporation	Temperature:	21
Attendees:	None	Humidity:	33%
Project:	None	Barometric Pres.:	30.03
Tested by:	Jennifer Herrett	Power: 120VAC/60Hz	Job Site: EV12

TEST SPECIFICATIONS — Test Method

FCC 15.249:2009	ANSI C63.4:2003

TEST PARAMETERS

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

COMMENTS

None

EUT OPERATING MODES

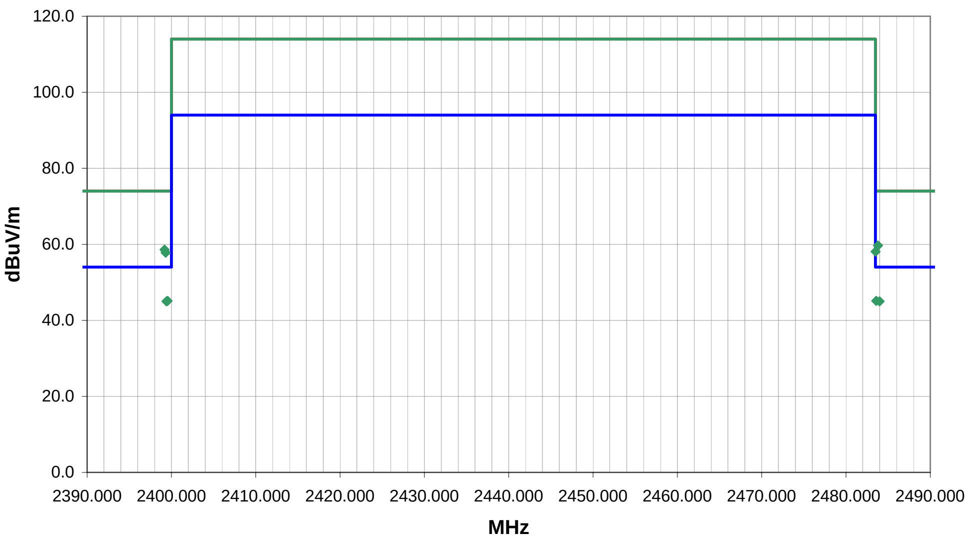
Tx

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	12
Configuration #	2
Results	Pass

Jennifer Herrett
Signature



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)	Comments
2483.588	26.6	-1.5	206.0	3.3	3.0	20.0	V-Horn	AV	0.0	45.1	54.0	-8.9	High Channel, EUT horizontal
2399.538	26.8	-1.7	257.0	3.5	3.0	20.0	H-Horn	AV	0.0	45.1	54.0	-8.9	Low Channel, EUT horizontal
2483.983	26.5	-1.5	282.0	1.0	3.0	20.0	H-Horn	AV	0.0	45.0	54.0	-9.0	High Channel, EUT horizontal
2399.408	26.7	-1.7	0.0	2.4	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	Low Channel, EUT horizontal
2483.803	41.2	-1.5	282.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.7	74.0	-14.3	High Channel, EUT horizontal
2399.182	40.3	-1.7	257.0	3.5	3.0	20.0	H-Horn	PK	0.0	58.6	74.0	-15.4	Low Channel, EUT horizontal
2483.510	39.6	-1.5	206.0	3.3	3.0	20.0	V-Horn	PK	0.0	58.1	74.0	-15.9	High Channel, EUT horizontal
2399.312	39.5	-1.7	0.0	2.4	3.0	20.0	V-Horn	PK	0.0	57.8	74.0	-16.2	Low Channel, EUT horizontal

NORTHWEST
EMC

Field Strength of Harmonics

PSA 2007.05.07
EMI 2008.1.9

EUT:	**PBP**			**Work Order:**	**INFO0377**
Serial Number:	**None**			**Date:**	**05/05/09**
Customer:	**InFocus Corporation**			**Temperature:**	**21**
Attendees:	**None**			**Humidity:**	**33%**
Project:	**None**			**Barometric Pres.:**	**30.03**
Tested by:	**Jennifer Herrett**	**Power:**	**120VAC/60Hz**	**Job Site:**	**EV12**

TEST SPECIFICATIONS — Test Method

FCC 15.249:2009 — ANSI C63.4:2003

TEST PARAMETERS

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

COMMENTS

None

EUT OPERATING MODES

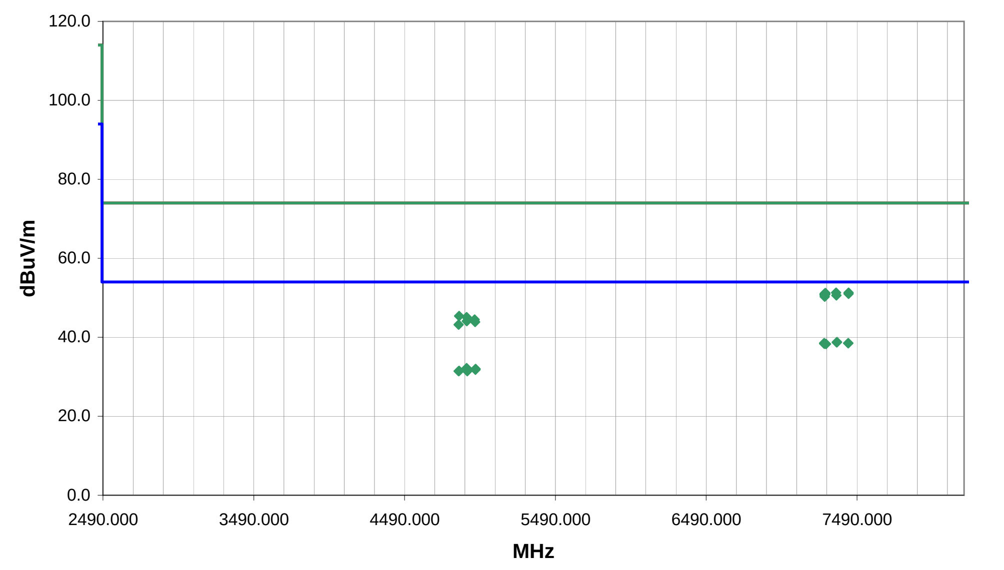
Tx

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	**13**
Configuration #	**2**
Results	**Pass**

Signature Jennifer Herrett



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)	Comments
7357.477	24.6	14.2	155.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	Mid Channel, EUT on side
7355.318	24.5	14.2	85.0	2.1	3.0	0.0	H-Horn	AV	0.0	38.7	54.0	-15.3	Mid Channel, EUT on side
7431.958	24.2	14.3	83.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.5	54.0	-15.5	High Channel, EUT on side
7431.982	24.2	14.3	174.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.5	54.0	-15.5	High Channel, EUT on side
7271.977	24.6	13.9	54.0	2.4	3.0	0.0	V-Horn	AV	0.0	38.5	54.0	-15.5	Low Channel, EUT vertical
7273.435	24.6	13.9	125.0	3.5	3.0	0.0	H-Horn	AV	0.0	38.5	54.0	-15.5	Low Channel, EUT on side
7273.178	24.5	13.9	88.0	3.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	Low Channel, EUT on side
7274.765	24.5	13.9	69.0	3.5	3.0	0.0	H-Horn	AV	0.0	38.4	54.0	-15.6	Low Channel, EUT vertical
7274.858	24.5	13.9	215.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	Low Channel, EUT horizontal
7283.935	24.4	13.9	218.0	3.5	3.0	0.0	H-Horn	AV	0.0	38.3	54.0	-15.7	Low Channel, EUT horizontal
4901.558	25.3	6.9	353.0	3.5	3.0	0.0	H-Horn	AV	0.0	32.2	54.0	-21.8	Mid Channel, EUT on side
4960.772	24.9	7.1	358.0	2.2	3.0	0.0	V-Horn	AV	0.0	32.0	54.0	-22.0	High Channel, EUT on side
4959.617	24.7	7.1	179.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2	High Channel, EUT on side
4851.337	24.7	6.8	113.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	Low Channel, EUT on side
4848.140	24.7	6.7	98.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	Low Channel, EUT on side
4905.280	24.5	6.9	323.0	2.6	3.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	Mid Channel, EUT on side
7434.257	37.0	14.3	174.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	High Channel, EUT on side
7351.235	37.1	14.2	85.0	2.1	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	Mid Channel, EUT on side
7280.458	37.3	13.9	54.0	2.4	3.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8	Low Channel, EUT vertical
7434.420	36.7	14.3	83.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	High Channel, EUT on side

NORTHWEST
EMC

Field Strength of Harmonics

PSA 2007.05.07
EMI 2008.1.9

EUT:	PBP	Work Order:	INFO0377
Serial Number:	None	Date:	05/05/09
Customer:	InFocus Corporation	Temperature:	21
Attendees:	None	Humidity:	33%
Project:	None	Barometric Pres.:	30.03
Tested by:	Jennifer Herrett Power: 120VAC/60Hz	Job Site:	EV12

TEST SPECIFICATIONS Test Method

FCC 15.249:2009 ANSI C63.4:2003

TEST PARAMETERS

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

COMMENTS

None

EUT OPERATING MODES

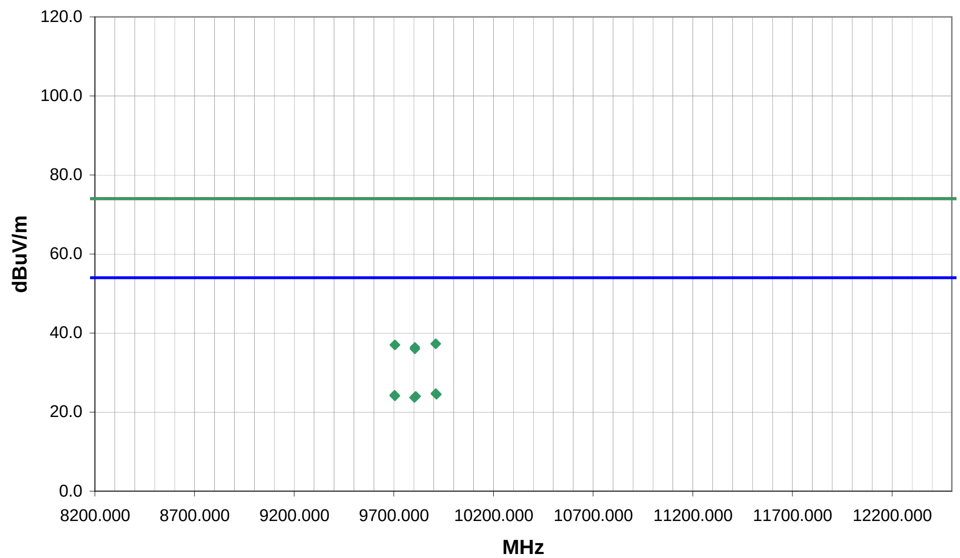
Tx

DEVIATIONS FROM TEST STANDARD

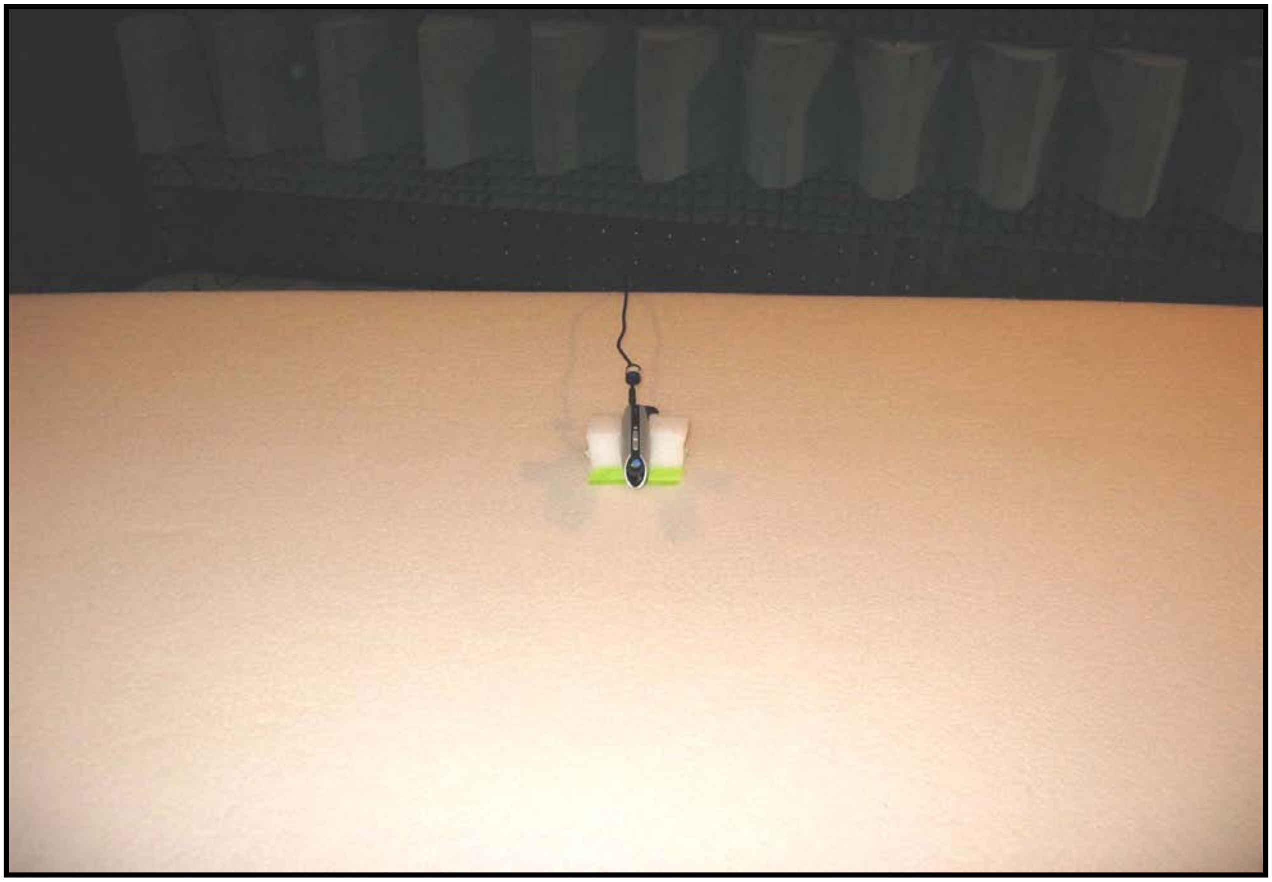
No deviations.

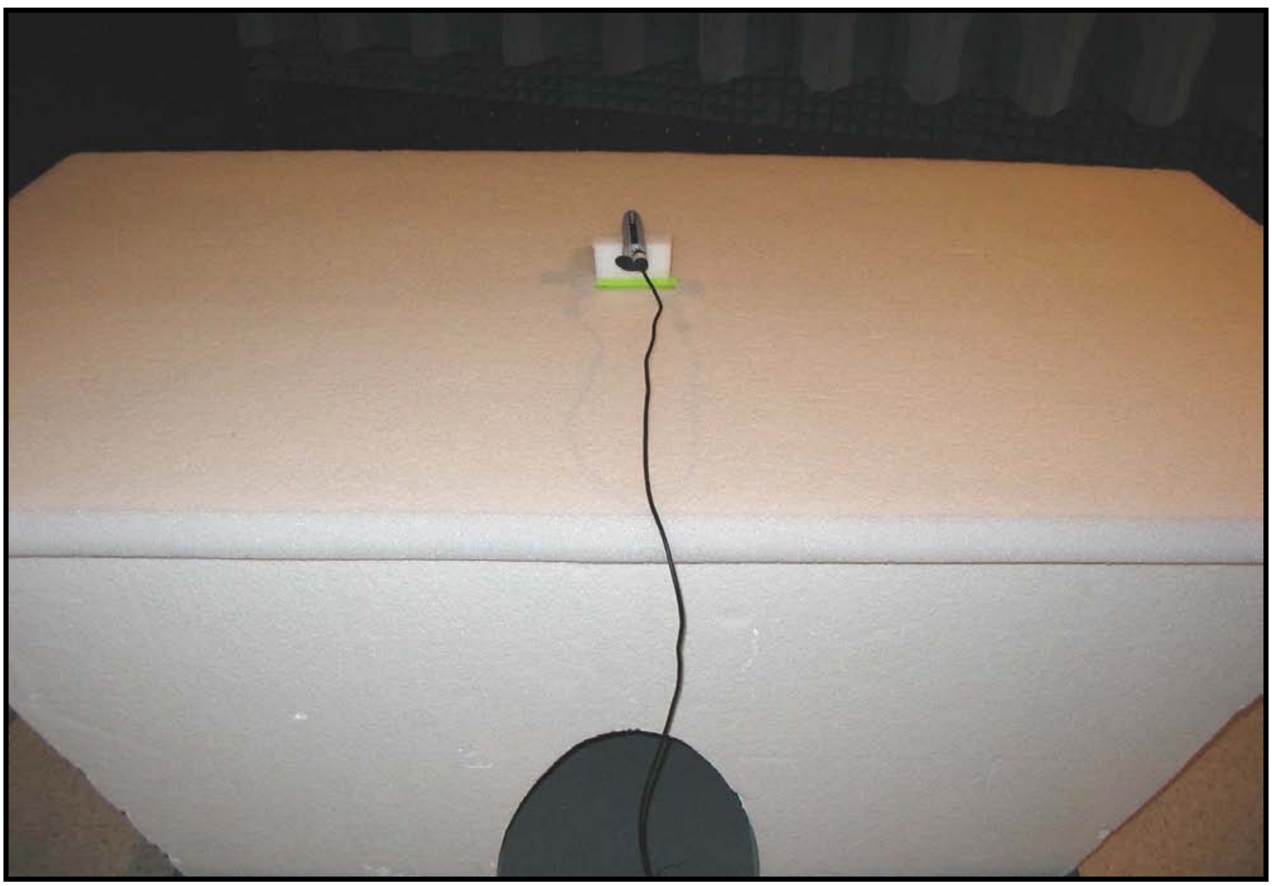
Run #	14
Configuration #	2
Results	Pass

Signature Jennifer Herrett

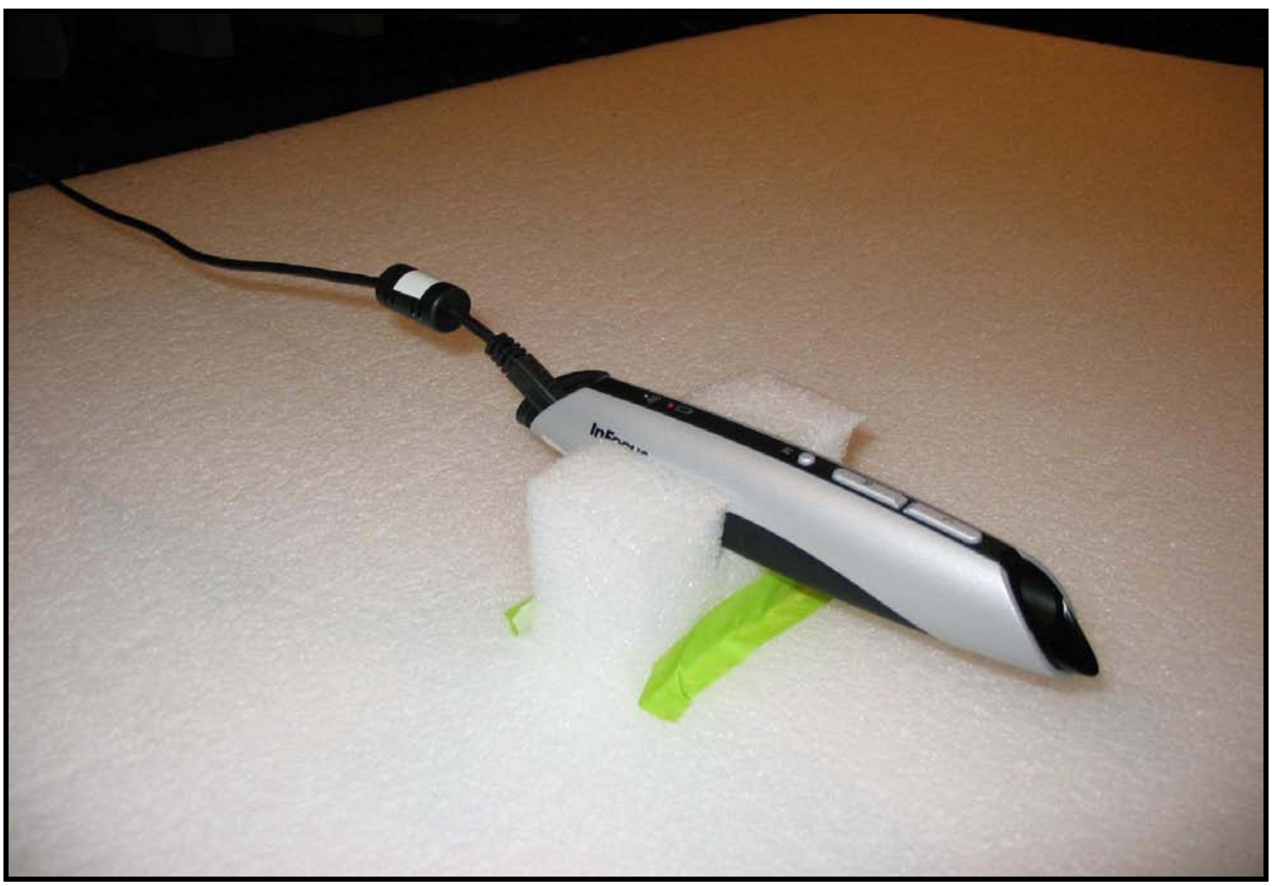


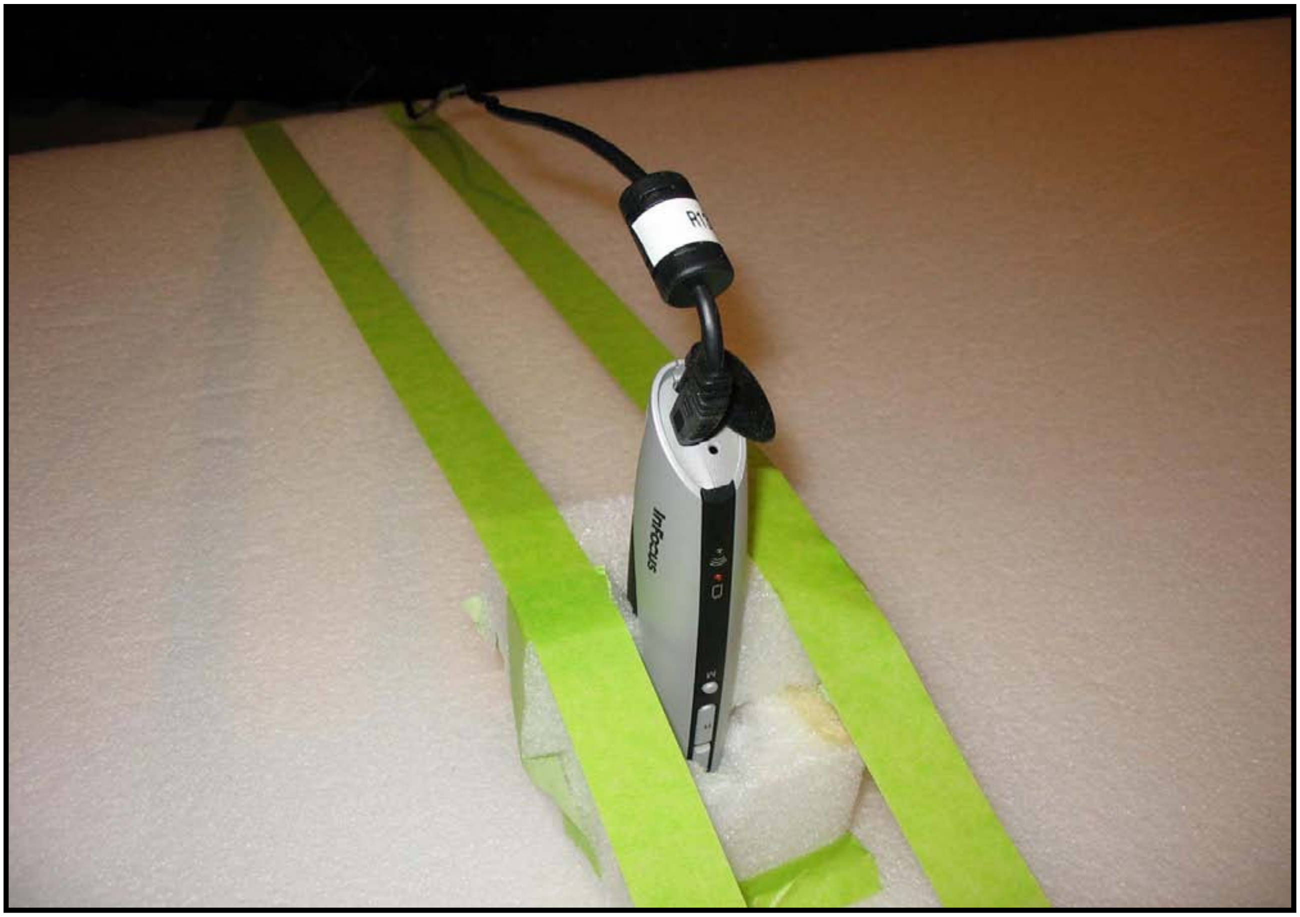
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
9909.818	35.7	-11.0	253.0	1.0	3.0	0.0	H-Horn	AV	0.0	24.7	54.0	-29.3	High Channel, EUT on side
9914.123	35.5	-11.0	26.0	1.0	3.0	0.0	V-Horn	AV	0.0	24.5	54.0	-29.5	High Channel, EUT on side
9703.910	35.0	-10.7	222.0	1.0	3.0	0.0	H-Horn	AV	0.0	24.3	54.0	-29.7	Low Channel, EUT on side
9705.275	34.8	-10.7	100.0	1.0	3.0	0.0	V-Horn	AV	0.0	24.1	54.0	-29.9	Low Channel, EUT on side
9809.592	34.9	-10.9	225.0	1.0	3.0	0.0	H-Horn	AV	0.0	24.0	54.0	-30.0	Mid Channel, EUT on side
9803.012	34.6	-10.9	52.0	1.0	3.0	0.0	V-Horn	AV	0.0	23.7	54.0	-30.3	Mid Channel, EUT on side
9909.188	48.3	-11.0	26.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.3	74.0	-36.7	High Channel, EUT on side
9910.857	48.3	-11.0	253.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.3	74.0	-36.7	High Channel, EUT on side
9704.528	47.7	-10.7	222.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.0	74.0	-37.0	Low Channel, EUT on side
9706.220	47.7	-10.7	100.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.0	74.0	-37.0	Low Channel, EUT on side
9805.940	47.3	-10.9	225.0	1.0	3.0	0.0	H-Horn	PK	0.0	36.4	74.0	-37.6	Mid Channel, EUT on side
9805.590	46.9	-10.9	52.0	1.0	3.0	0.0	V-Horn	PK	0.0	36.0	74.0	-38.0	Mid Channel, EUT on side






InFocus




InFocus