TEST REPORT

Report Number: 3061299-40-1-1
Project Number: 3061299
October 7, 2004

Evaluation of the
UWB Through-Wall Detector
Model Number: RV-2
to

CFR 47 Part 15, Subpart F

For
Time Domain Corporation

Test Performed by:	Test Authorized by:
Intertek Testing Services 1950 Evergreen Blvd, Suite 100 Duluth, GA 30096	Time Domain Corporation 7057 Old Madison Pike Huntsville, AL 35806

Prepared by: _____ Date: October 7, 2004
Shawn K. McGuinness

Reviewed by: _____ Date: October 7, 2004
David J. Schramm

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Executive Summary

Testing performed for: Time Domain Corporation

Equipment Under Test: UWB Through-Wall Detector, Model: RV-2

Test Description	FCC Section	Pass/Fail Comments
• UWB bandwidth	15.510(a)	Pass
• Operational limitations	15.510(b)	Time Domain Corporation has been notified of these requirements
• Radiated Emissions	15.510(c)	Not applicable because the EUT operates in the 1990 – 10600 MHz band.
• Operational limitations	15.510(d)(1) 15.510(d)(2)	Time Domain Corporation has been notified of these requirements
• Radiated Emissions	15.510(d)(3) 15.209	Pass
• Radiated emissions	15.510(d)(4)	Pass
• Peak emission within a 50 MHz bandwidth	15.510(d)(5)	Pass
• Labeling requirements	15.510(e)	Time Domain Corporation has been notified of these requirements
• Conducted emissions, AC Mains	15.207	This test was not applicable because the EUT is battery powered and does not connect to the ac mains.

1 JOB DESCRIPTION

1.1 Client information

The UWB Through-Wall Detector has been tested at the request of

Company: Time Domain Corporation
7057 Old Madison Pike
Huntsville, AL 35806

Name of contact: Keven Trach
Telephone: (256) 428-6591
Fax: (256) 922-0387

1.2 Test plan reference:

Tests were performed to the following standards:

- CFR 47 Part 15, Subpart C rules for an intentional radiator
- CFR 47 Part 15, Subpart F rules for a UWB device

The test procedures described in American National Standards Institute C63.4: 2003, CISPR 16-1: 1993, and CFR 47 Part 15, Subpart F were employed.

1.3 Equipment Under Test (EUT)

Equipment Under Test		
Description	**Model Number**	**Serial Number**
UWB Through-Wall Detector	RV-2	R4HA00010

EUT receive date: June 28, 2004

EUT receive condition: The EUT was received in good condition with no apparent damage.

Test start date: June 28, 2004

Test completion date: June 30, 2004

The test results in this report pertain only to the item tested.

The following description of the UWB Through-Wall Detector was supplied by Time Domain Corporation:

The Radar Vision (M/N: RV-2) is a hand held radar device. The RV-2 uses UWB technology to detect movement and display this movement on a small monitor for the user. The RV-2 is DC powered at 7.2V.

1.3.1 System Support Equipment

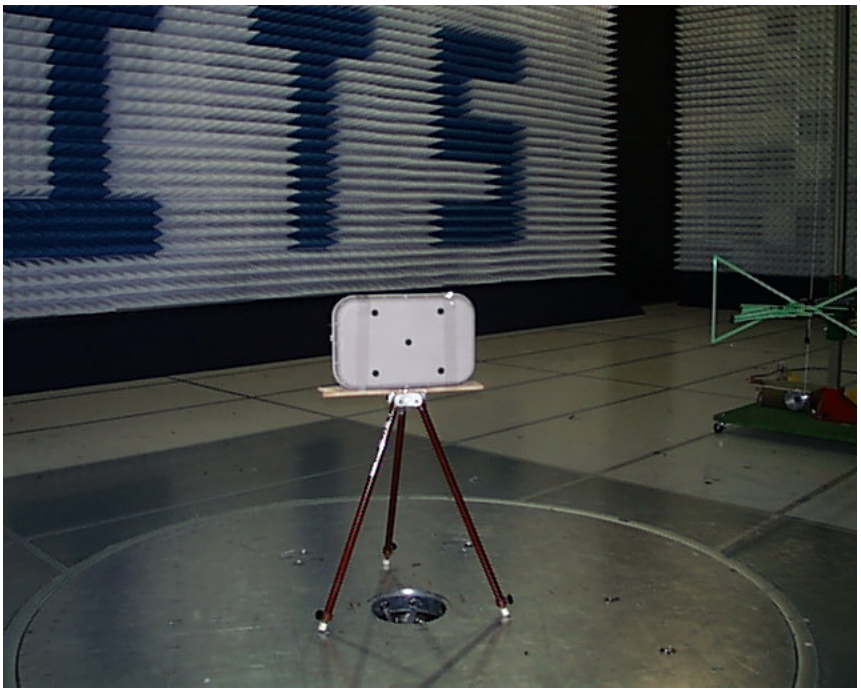
There was no support equipment required for the operation of the EUT.

1.3.2 Cables associated with EUT

There were no cables required for the operation of the EUT. It is a hand-held, battery-powered device.

1.3.3 System Block Diagram

The diagram shown below details the interconnection of the EUT and support equipment. For specific layout, refer to the test configuration photograph in the relevant section of this report.



1.3.4 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it).

The EUT was configured to transmit continuously.

The EUT had no interconnecting cable.

To insure maximum emissions were detected, the system was rotated 360 degrees, the antenna height was varied from 1 to 4 meters above the ground plane in both horizontal and vertical polarizations. Above 1 GHz, the measurement antenna was manipulated so that the EUT remained within its beam-width.

Above 960 MHz, the measurements were made at 1 meter due to the extremely low emission limit. At 3 meters, the instrument noise floor is at or above the limits.

Frequency determining parameters

The highest frequency employed in CFR 47 Section 15.33 to determine the frequency range over which radiated emissions are made were based on the center frequency, f_c, unless a higher frequency was generated within the UWB device. For measuring emission levels, the spectrum were investigated from the lowest frequency generated in the UWB, without going below 9 kHz, up to the frequency range shown in Section 15.33(a) of CFR 47 or up to f_c + 3/(pulse width in seconds), whichever was higher. There is no requirement to measure emissions beyond 40 GHz provided f_c was less than 10 GHz; beyond 100 GHz if f_c was at or above 10 GHz and below 30 GHz; or beyond 200 GHz if f_c was at or above 30 GHz.

The center frequency f_c was found to be 3.911 GHz.

The pulse width of the EUT was 500 picoseconds.

The highest frequency scanned was 40 GHz.

1.3.5 Mode(s) of operation

The EUT was powered from a fully charged 7.2 volt battery.

Pulse repetition frequency (PRF) was set to 10 MHz.

The EUT was set to transmit at its maximum power level.

1.4 Modifications required for compliance

No modifications were implemented by Intertek Testing Services.

2 TEST ENVIRONMENT

2.1 Test Facility

The Duluth 10-meter chamber site is located at 1950 Evergreen Blvd., Suite 100, Duluth, Georgia. The test site is a 10-meter semi-anechoic chamber. The site meets the characteristics of CISPR 16-1: 1993 and ANSI C63.4: 2003. For measurements, a remotely controlled flush-mount metal-top turntable is used to rotate the EUT a full 360 degrees. A remote controlled non-conductive antenna mast is used to scan the antenna height from one to four meters.

The A2LA accreditation code for this site is 121624 under certificate number 1455.01.

2.2 Test Equipment

Table 2-1 contains a list of the test equipment used during the testing.

Table 2-1 List of Test Equipment

Duluth Test Equipment for Radiated Emissions				
Description	**Make**	**Model**	**Serial #**	**Cal Due Date**
EMI Receiver	HP	85462A	3650A00362	8/21/2004
RF Filter Selector	HP	85460A	3704A00331	8/21/2004
Spectrum Analyzer	Rohde&Schwarz	FSP40	100024	2/15/2005
PreAmp	HP	8449B	3008A00989	4/19/2005
PreAmp	Miteq	JS4-00102600-29-7P	PA01	8/19/2004
PreAmp	TEC	PA-102	44939	4/6/2005
BiLog Antenna	Chase	CBL6112B	2622	8/26/2003
Horn Antenna	AH Systems	SAS 200/571	246	2/4/2005
Horn Antenna	EMCO	3116	9310-2222	3/10/2005
Horn Antenna	EMCO	3115	9208-3919	3/8/2005
High Pass Filter	Filtek	HP12/3000-5AB	15B57-01	8/21/2004
Cable	Huber Suhner	Sucoflex 104PE	E01	6/22/2005
Cable	Huber Suhner	Sucoflex 104PEA	E02	6/22/2005
Cable	Huber Suhner	Sucoflex 104PEA	E05	6/22/2005
Cable	MegaPhase	G919 NKNK 394	MP3	5/25/2005
Cable	Huber Suhner	Sucoflex 104PEA	E11	6/22/2005

2.3 Measurement Calculations

2.3.1 Example Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF – PA

Where FS = Field Strength in dB(μV/m)
RA = Receiver Amplitude (including preamplifier) in dB(μV)
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB(1/m)
PA= Preamplifier Factor in dB

Assume a receiver reading of 52.0 dB(μV) is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB(μV/m).

RA = 52.0 dB(μV)
AF = 7.4 dB(1/m)
CF = 1.6 dB
PA = 29.0 dB
FS = RF + AF + CF – PA
FS = 52.0 + 7.4 + 1.6 – 29.0
FS = 32 dB(μV/m)

2.3.2 EIRP Calculations

As defined in CFR 47 Part 15.503(k), EIRP is the equivalent isotropic radiated power, i.e. the product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna. The EIRP, in terms of dBm, can be converted to a field strength, in dBμV/m at 3 meters, by adding 95.2. As used in Subpart F, EIRP refers to the highest signal strength measured in any direction and at any frequency from the UWB device, as tested in accordance with the procedures specified in 15.31(a) and 15.523 of CFR 47.

2.4 Measurement Uncertainty

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes.

The expanded uncertainty (k = 2) for radiated emissions from 30 to 1000 MHz has been determined to be:

±3.5 dB at 10m

±3.8 dB at 3m

The expanded uncertainty (k = 2) for radiated emissions from 1 to 18 GHz has been determined to be:

±4.6 dB at 3m

±4.5 dB at 1m

The expanded uncertainty (k = 2) for radiated emissions from 18 to 40 GHz has been determined to be:

±4.2 dB at 1m

The expanded uncertainty (k = 2) for mains conducted emissions from 150 kHz to 30 MHz has been determined to be:

±2.6 dB

3 OPERATIONAL LIMITATIONS

CFR 47 Section 15.510(d)(1)

Parties operating this equipment must hold a license issued by the Federal Communications Commission to operate a transmitter in the Public Safety Radio Pool under part 90 of this chapter. The license may be held by the organization for which the UWB operator works on a paid or volunteer basis.

Time Domain Corporation has been informed of this requirement.

CFR 47 Section 15.510(d)(2)

This equipment may be operated only for law enforcement applications, the providing of emergency services, and necessary training operations.

Time Domain Corporation has been informed of this requirement.

4 UWB BANDWIDTH

CFR 47 Section 15.510(a)

The UWB bandwidth of an imaging system operating under the provisions of this section must be below 960 MHz or the center frequency, f_C, and the frequency at which the highest radiated emission occurs, f_M, must be contained between 1990 MHz and 10600 MHz.

4.1 Test Procedure

Due to the extremely wide nature of UWB emissions, special considerations were taken to make the bandwidth measurements. The emissions were measured in a manner similar to those stated in Section 5.2 of this document.

The resolution bandwidth was set to 1 MHz. The video bandwidth was set to 3 MHz. The test distance was 1 meter.

A computer runs the maximization routine and records the highest emissions over a frequency range of 960 MHz to 12 GHz. The maximization routine rotates the table through 360 degrees and moves the measurement antenna from 1 to 4 meters above the ground plane.

4.2 Test Results

The bandwidth of the UWB Through-Wall Detector, Model Number RV-2, was found to comply with the requirements of CFR 47 Section 15.510(d)(3). A bandwidth plot is located in Figure 4-1.

f_L = 1.674 GHz, f_H = 6.147 GHz, f_M = 3.302 GHz, and Bandwidth = 4.473 GHz

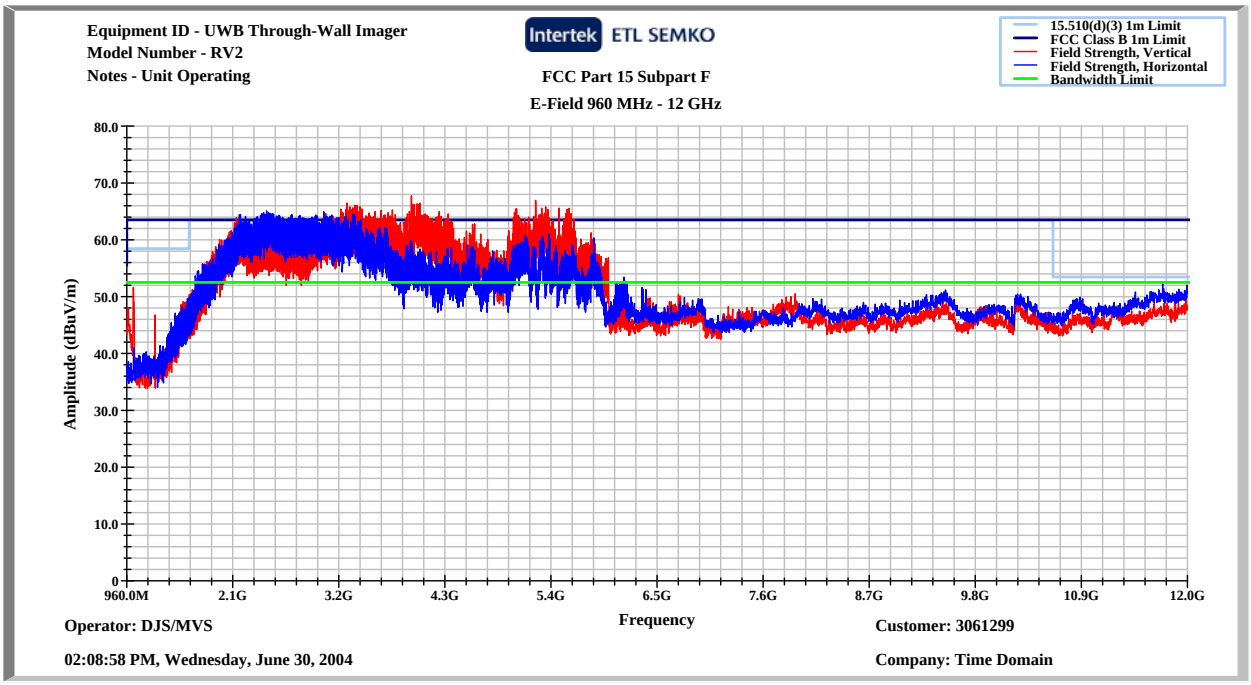


Figure 4-1: Composite Bandwidth Plot

5 RADIATED EMISSIONS

5.1 Test limits

The radiated emissions at or below 960 MHz from a device operating under the provisions of CFR 47 Section 15.517 shall not exceed the emission level in CFR 47 Section 15.209. The radiated emissions above 960 MHz from a device operating under CFF 47 Section 15.517(d) shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Table 5-1 Radiated emission limits for UWB transmitters

Frequency MHz	EIRP dBm	Measurement distance meters
960 to 1610	-46.3	3
1610 to 10600	-41.3	3
Above 10600	-51.3	3

From CFR 47 Section 15.521 (c): As noted in Section 15.3(k) of this chapter, digital circuitry that is used only to enable the operation of a transmitter and that does not control additional functions or capabilities is not classified as a digital device. Instead, the emissions from that digital circuitry are subject to the same limits as those applicable to the transmitter. If it can be clearly demonstrated that an emissions from a UWB transmitter is due solely to the emissions from digital circuitry contained within the transmitter and that the emission is not intended to be radiated from the transmitter's antenna, the limits shown in CFR 47 Section 15.209 shall apply to that emission rather than the limits specified in CFR 47 Section 15 Subpart F.

Table 5-2 Radiated emission limits, general requirements

Frequency (MHz)	Field strength (μV/m)	Measurement distance (meters)
0.009 to 0.490	2400/F(kHz)	300
0.490 to 1.705	24000/F(kHz)	30
1.705 to 30	30	30
30 to 88	100	3
88 to 216	150	3
216 to 960	200	3
960 and up	500	3

5.2 Test Procedure

Measurements in the frequency range of 30 MHz to 960 MHz were conducted with a measurement receiver equipped with a quasi-peak detector. Measurements above 960 MHz were based on RMS average measurements over a 1 MHz resolution bandwidth.

The RMS detector of the RS FSP40 was used during testing for final measurement above 960 MHz.

Measurements of the radiated field from 30 MHz to 960 MHz were made with the measurement antenna located at a distance of 3 meters from the EUT unless specified otherwise in the measurement results.

Measurements of the radiated field above 960 MHz were made with the measurement antenna located at a distance of 1 meter from the EUT unless specified otherwise in the measurement results.

The antenna was adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth was varied from zero to 360 degrees during the measurement to find the maximum field-strength readings.

The antenna polarization was varied (horizontal to vertical) during the measurements to find the maximum field-strength readings.

The EUT was placed on a tripod at 0.8m above the ground plane.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4: 2003.

5.3 Test Results

There were no other emissions detected above 18 GHz. The maximum frequency scanned was 40 GHz.

Figure 5-1 Radiated Emissions, 30 to 960 MHz, transmitter on

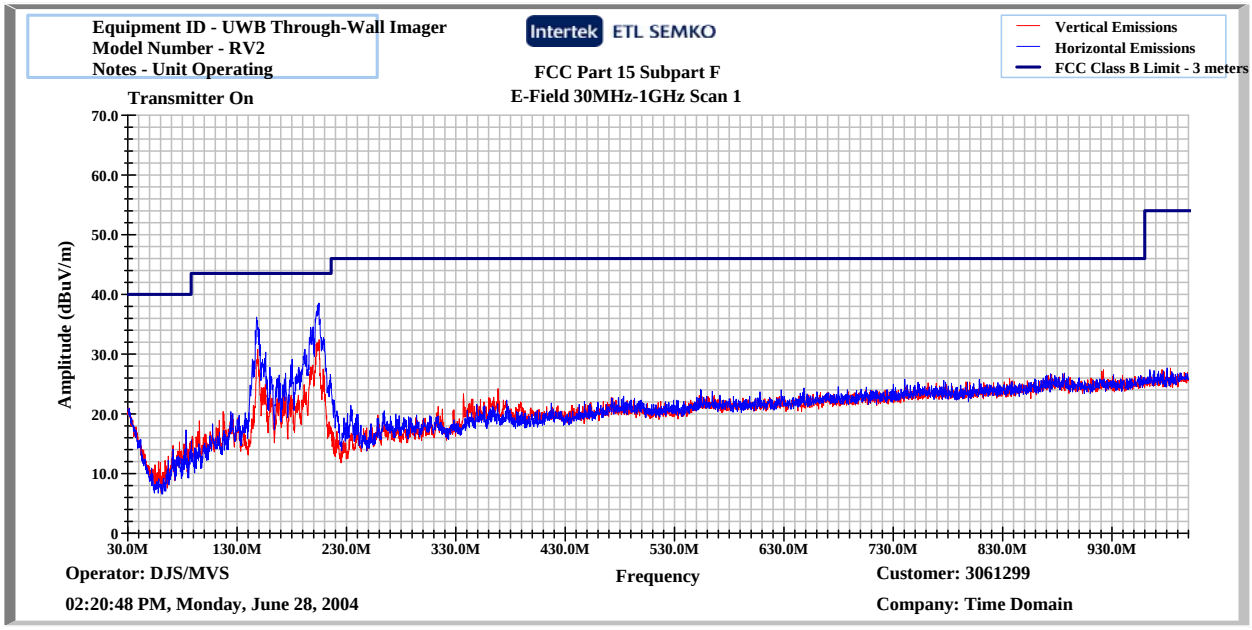


Figure 5-2 Radiated Emissions, 30 to 960 MHz, transmitter off

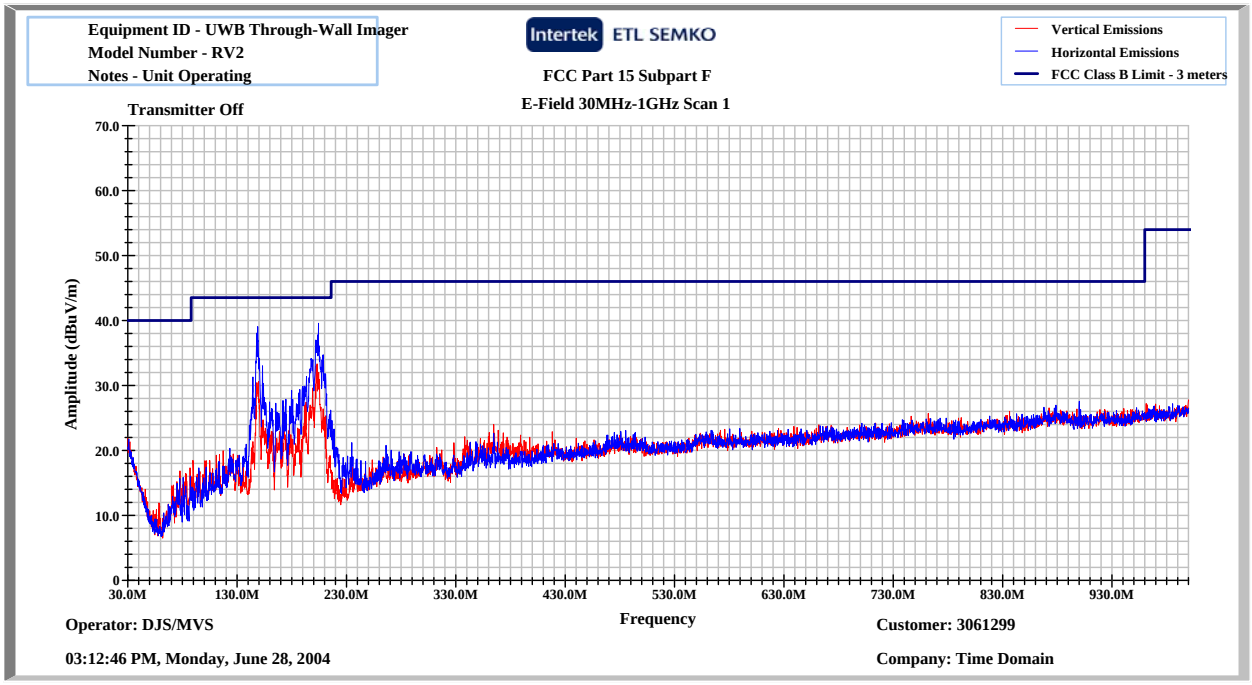


Figure 5-3 Radiated Emissions, 960 to 12000 MHz, transmit mode

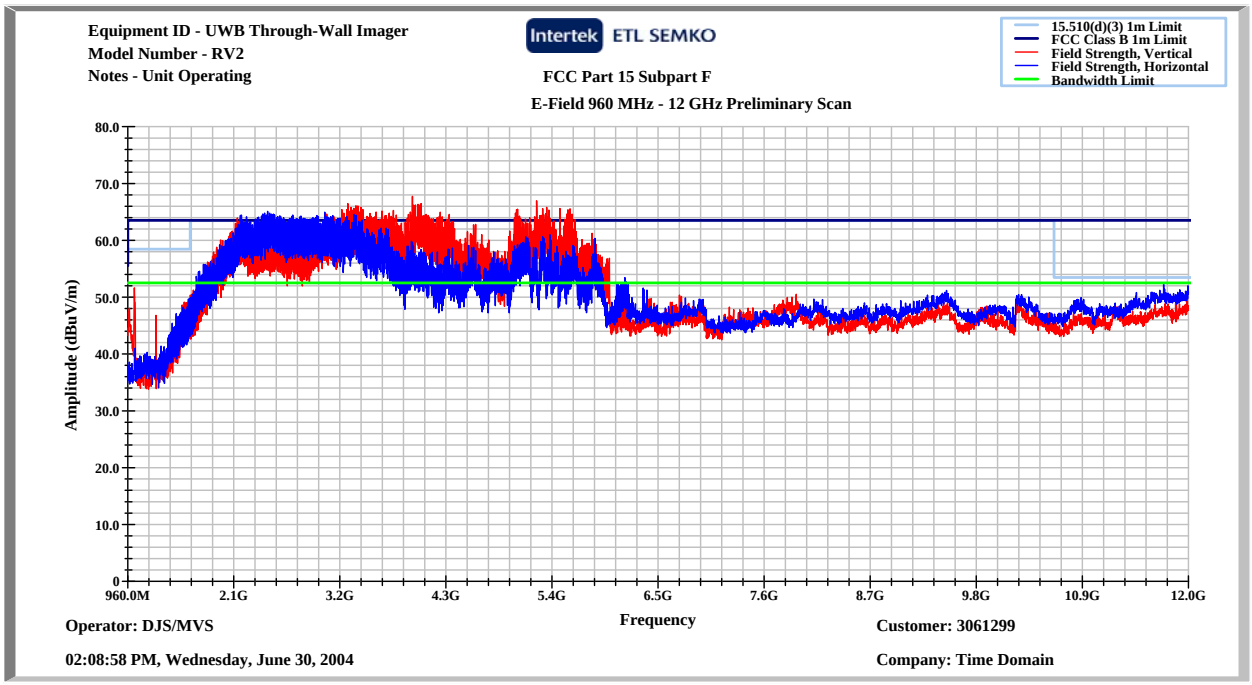


Figure 5-4 Radiated Emissions, 12 to 18 GHz, transmit mode

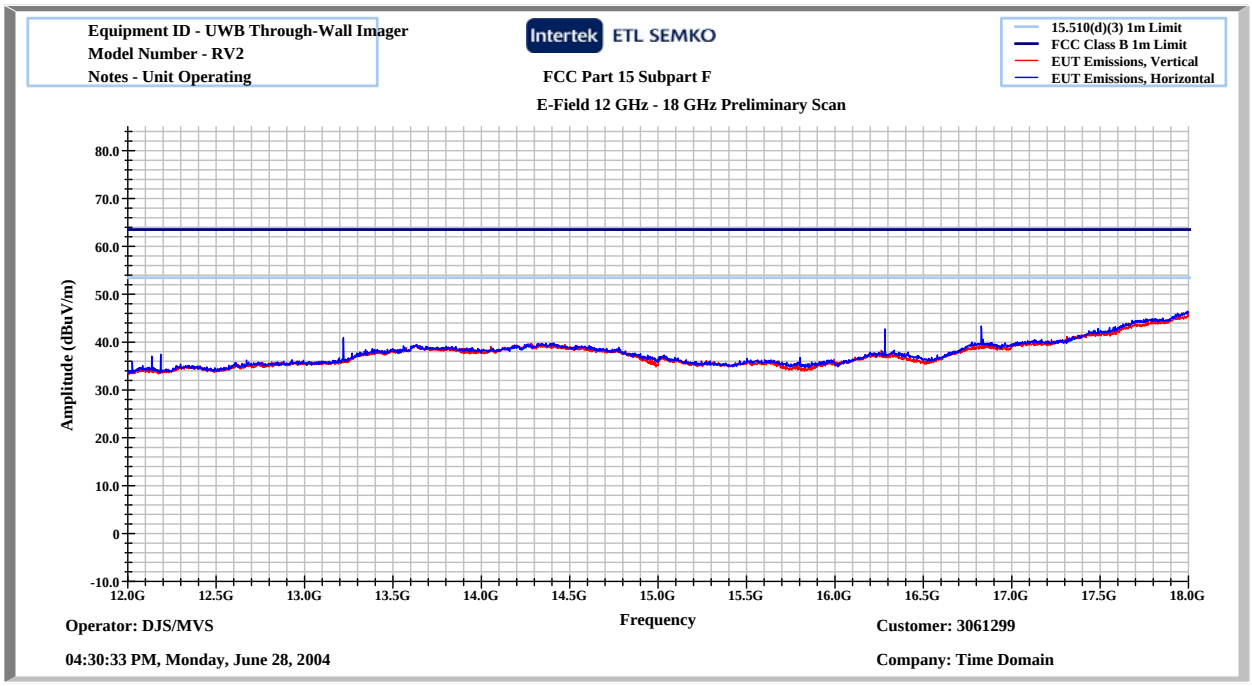


Table 5-3 Radiated Emissions - transmitter on

Client: Time Domain Corp
Model Number: RV2
Project Number: 3061299
Tested By: SKM
Date: 6-28-2004
Frequency Range (MHz): 30to1000MHz
Input power: 7.2Vdc-Battery
Notes: -- CISPR QP detector

Receiver: HP 8546A
Antenna: Chase 2622
Cables: E01+E02+MP3+E05
Preamp: PA-102
Limit: FCC15 Class B-3m
Test Distance (m): 3
Modifications for compliance (y/n): N

A	B	C	D	E	F	G	H	I
Ant. Pol. (V/H)	**Frequency MHz**	**Reading dB(uV)**	**Antenna Factor dB(1/m)**	**Cable Loss dB**	**Pre-amp Factor dB**	**Net dB(uV/m)**	**3m Limit dB(uV/m)**	**Margin dB**
Transmitter OFF								
H	147.530	43.0	11.8	2.1	23.2	33.7	43.5	-9.8
H	203.820	43.7	10.7	2.7	23.1	34.0	43.5	-9.5
Transmitter ON								
H	148.830	42.7	11.8	2.1	23.2	33.4	43.5	-10.1
H	203.820	44.1	10.7	2.7	23.1	34.4	43.5	-9.1

Calculations	G=C+D+E-F	I=G-H

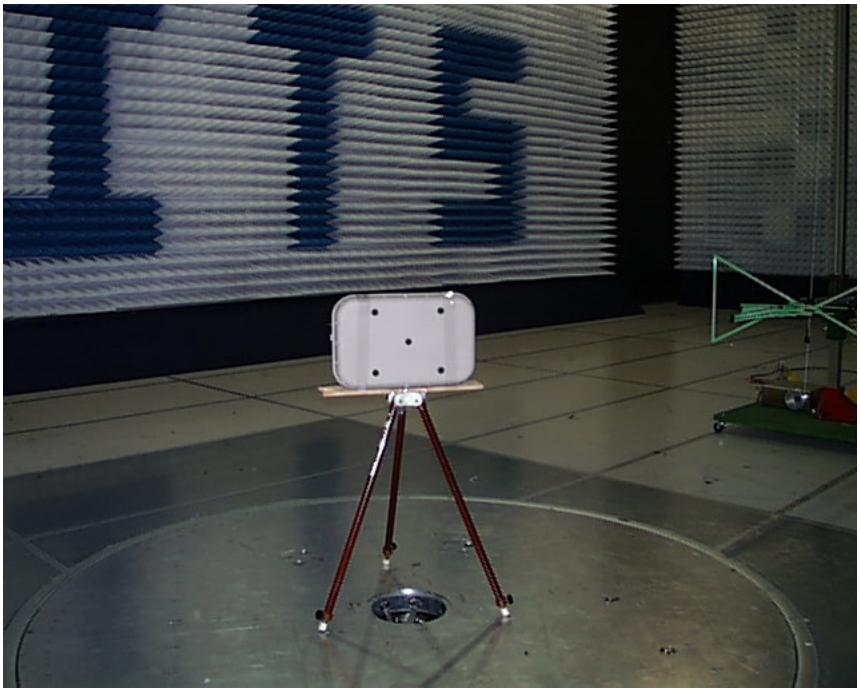
Client: Time Domain Corp.
Model Number: RV2
Project Number: 3061299
Tested By: SKM
Date: 6-28-2004
Frequency Range (MHz): 1to12GHz
Input power: 7.2 VDC-Battery
Notes: RMS Detector used

Receiver: RS FSP40
Antenna: EMCO 3115
Cables: E11+E03+MP3+E02
Preamp: Miteq
Limit: FCC15 Class B-1m
Test Distance (m): 1m
Modifications for compliance (y/n): N

A	B	C	D	E	F	G	H	I
Ant. Pol. (V/H)	**Frequency MHz**	**RMS Reading dB(uV)**	**Antenna Factor dB(1/m)**	**Cable Loss dB**	**Pre-amp Factor dB**	**RMS Net dB(uV/m)**	**1m Limit dB(uV/m)**	**Margin dB**
H	1610.000	42.1	25.7	7.8	31.5	44.1	63.5	-19.4
V	1610.000	42.1	25.8	7.8	31.5	44.2	63.5	-19.3
V	2142.720	50.4	28.1	9.1	31.5	56.1	63.5	-7.4
H	2142.720	52.6	28.2	9.1	31.5	58.4	63.5	-5.1
H	3010.200	51.9	30.7	11.0	31.8	61.8	63.5	-1.7
V	3010.200	50.8	30.6	11.0	31.8	60.6	63.5	-2.9
V	3302.800	52.0	30.6	11.8	31.8	62.5	63.5	-1.0
H	3302.800	48.7	30.7	11.8	31.8	59.3	63.5	-4.2
H	3929.900	41.3	32.0	12.8	32.0	54.1	63.5	-9.4
V	3929.900	49.5	31.9	12.8	32.0	62.2	63.5	-1.3
V	4003.200	47.5	33.0	13.3	32.0	61.8	63.5	-1.7
H	4003.200	38.1	33.0	13.3	32.0	52.4	63.5	-11.1
H	4996.100	34.7	32.6	14.8	32.4	49.6	63.5	-13.9
V	4996.100	44.5	32.5	14.8	32.4	59.3	63.5	-4.2
V	5299.200	41.1	34.1	15.7	32.4	58.5	63.5	-5.0
H	5299.200	37.2	34.3	15.7	32.4	54.8	63.5	-8.7
H	5056.400	38.0	34.3	15.8	32.3	55.8	63.5	-7.7
V	5056.400	41.6	34.1	15.8	32.3	59.2	63.5	-4.3

Calculations	G=C+D+E-F	I=G-H

5.4 Test Configuration Photograph



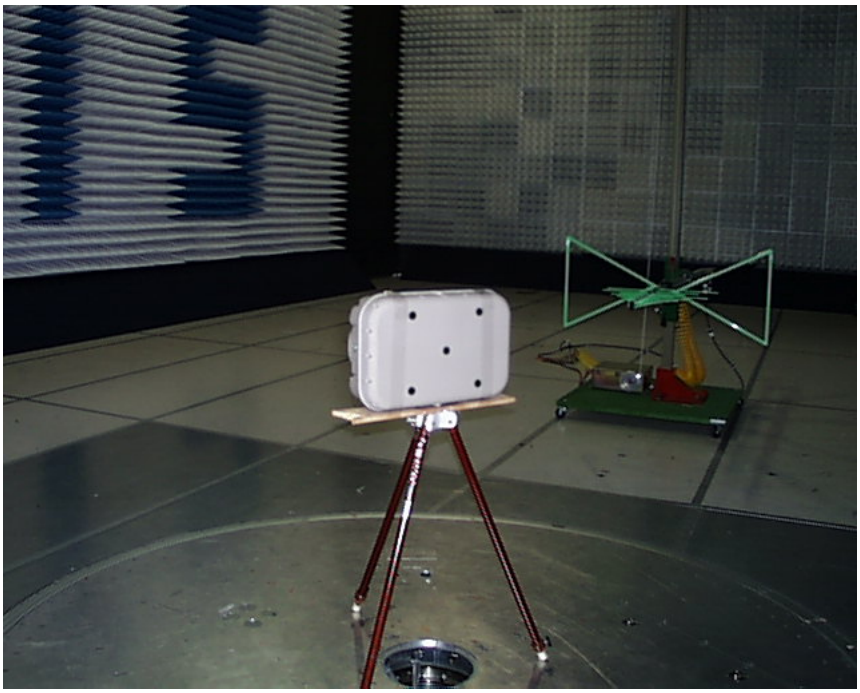


Figure 5-5: Configuration photograph, radiated emissions

6 RADIATED EMISSIONS IN GPS BANDS

6.1 Test limits

In addition to the radiated emission limits specified in Table 5-1, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz.

Table 6-1 Radiated emission limits for UWB transmitters using RBW of ≥ 1kHz.

Frequency in MHz	EIRP at 3 meters dBm
1164 to 1240	-56.3
1559 to 1610	-56.3

6.2 Test Procedure

Measurements in this section were made using a resolution bandwidth of 1 kHz (or greater), a video bandwidth of 10 kHz. The RMS detector of the RS FSP40 was used during testing for final measurement.

Measurements of the radiated field were made with the measurement antenna located at a distance of 1 meter from the EUT. The limit specified in Table 6-1 was adjusted to accommodate the 1-meter test distance.

The antenna was adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth was varied from zero to 360 degrees during the measurement to find the maximum field-strength readings.

The antenna polarization was varied (horizontal to vertical) during the measurements to find the maximum field-strength readings.

The EUT was placed on a tripod at 0.8m above the ground plane.

The noise floor for these measurements was 35 to 40 dB below the limit.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4: 2003.

6.3 Test Results

The UWB Through-Wall Detector met the radiated emission requirements of FCC CFR 47 Section 15.510(d)(4). There were no emissions within 10 dB of the limit.

Figure 6-1 Radiated emissions at 1 meter, 1164 to 1240 MHz

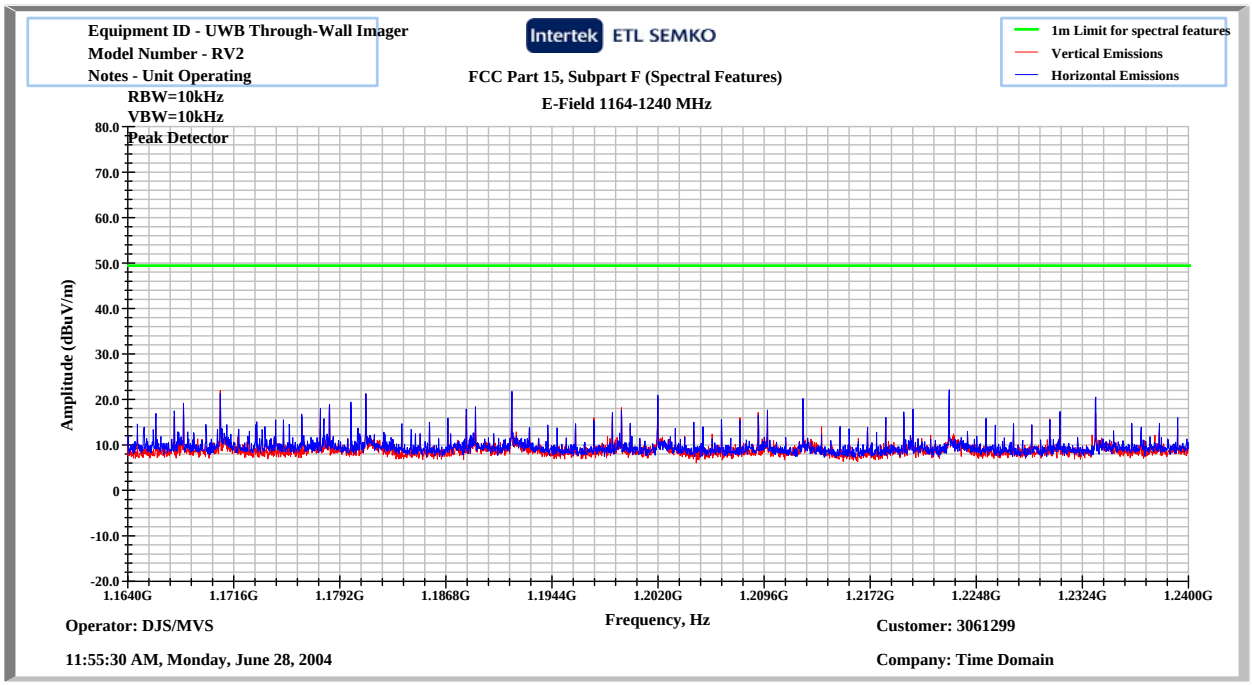
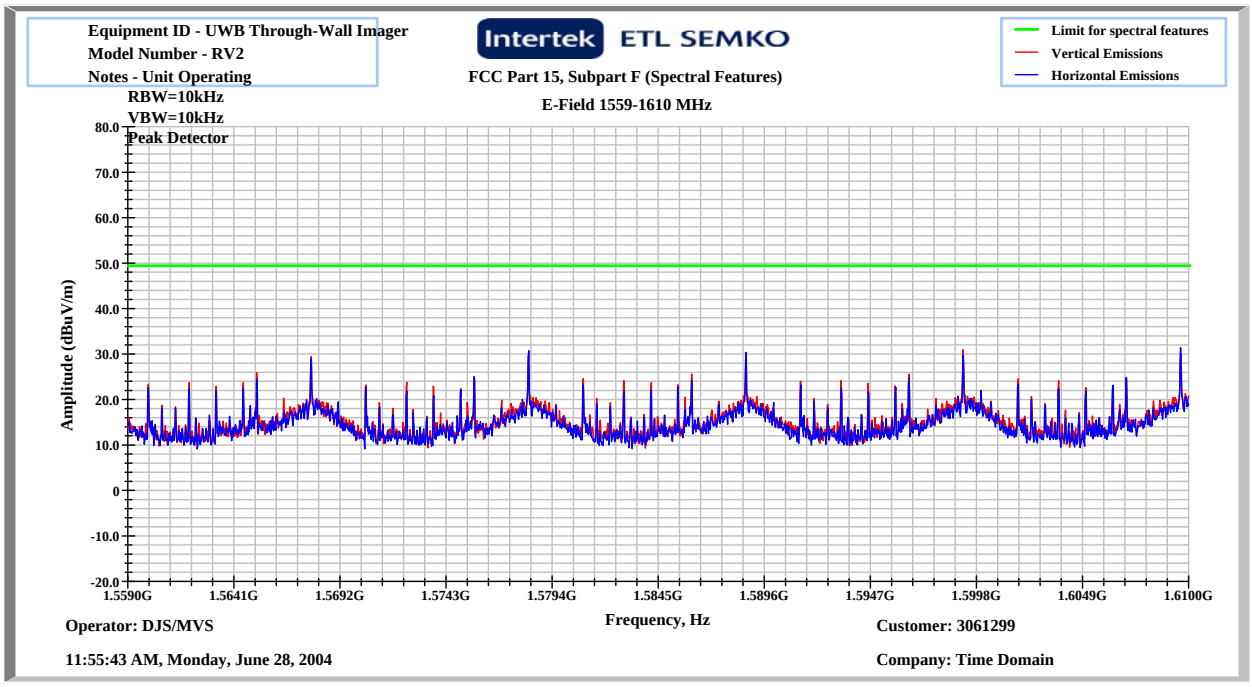


Figure 6-2 Radiated Emissions at 1 meter, 1559 to 1610 MHz



7 PEAK EMISSION WITHIN A 50 MHZ BANDWIDTH

7.1 Test limit

There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emissions occurs, f_M. That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit.

7.2 Test procedure

When a peak measurement is required, it is acceptable to use a resolution bandwidth other than the 50 MHz specified CFR 47 Part 15, Subpart F. The resolution bandwidth was set to 3 MHz, and the measurement was centered on the frequency at which the highest radiated emission occurred, f_M. Since a resolution bandwidth other than 50 MHz was employed, the peak EIRP limit was lowered by 20log (RBW/50) dB, where RBW was the resolution bandwidth in megahertz that was employed. This calculates to a correction factor of–34 dB. Testing was performed at 1 meter, therefore the limit in a 50 MHz bandwidth was adjusted to 9.5 dBm.

The measurements recorded in this section were obtained using a resolution bandwidth of 3 MHz, a video bandwidth of 3 MHz, and with peak detector with the trace set to maximum-hold.

Measurements of the radiated field were made with the measurement antenna located at a distance of 1 meter from the EUT unless specified otherwise in the measurement results.

The antenna was adjusted between 1m and 4m in height above the ground plane for maximum meter reading at each test frequency.

The antenna-to-EUT azimuth was varied from zero to 360 degrees during the measurement to find the maximum field-strength readings.

The antenna polarization was varied (horizontal to vertical) during the measurements to find the maximum field-strength readings.

The EUT was placed on a tripod at 0.8m above the ground plane.

Equipment setup for radiated disturbance tests followed the guidelines of ANSI C63.4: 2003.

7.3 Test Results

The UWB Through-Wall Detector met the radiated emission requirements of FCC CFR 47 Section 15.510(d)(5).

Table 7-1 UWB Radiated Emissions

Client: Time Domain Corp.
Model Number: RV2
Project Number: 3061299
Tested By: SKM
Date: 6-28-2004
Frequency Range (MHz): 1to 6 GHz
Input power: 7.2 VDC-Battery
Notes: RBW=3MHz, VBW=3MHz

Receiver: HP 8546A
Antenna: EMCO 3115
Cables: E11+E03+MP3+E02
Preamp: Miteq
Limit: see below
Test Distance (m): 1m
Modifications for compliance (y/n): N

A	B	C	D	E	F	F1	F2	G	H	I
Ant. Pol. (V/H)	**Frequency MHz**	**Peak Reading dB(uV)**	**Antenna Factor dB(1/m)**	**Cable Loss dB**	**Pre-amp Factor dB**	**Convert to dBm**	**3to50MHz Coverstion dB**	**Peak Net dBm**	**1m Limit dBm**	**Margin dB**
H	1610.000	47.3	25.7	7.8	31.5	95.2	24.5	-21.4	9.5	-30.9
V	1610.000	46.9	25.8	7.8	31.5	95.2	24.5	-21.7	9.5	-31.2
V	2142.720	55.0	28.1	9.1	31.5	95.2	24.5	-10.0	9.5	-19.5
H	2142.720	57.6	28.2	9.1	31.5	95.2	24.5	-7.3	9.5	-16.8
H	3010.200	55.2	30.7	11.0	31.8	95.2	24.5	-5.6	9.5	-15.1
V	3010.200	54.8	30.6	11.0	31.8	95.2	24.5	-6.1	9.5	-15.6
V	3302.800	55.7	30.6	11.8	31.8	95.2	24.5	-4.5	9.5	-14.0
H	3302.800	52.2	30.7	11.8	31.8	95.2	24.5	-7.9	9.5	-17.4
H	3929.900	45.2	32.0	12.8	32.0	95.2	24.5	-12.7	9.5	-22.2
V	3929.900	51.3	31.9	12.8	32.0	95.2	24.5	-6.7	9.5	-16.2
V	4003.200	49.4	33.0	13.3	32.0	95.2	24.5	-7.0	9.5	-16.5
H	4003.200	42.8	33.0	13.3	32.0	95.2	24.5	-13.6	9.5	-23.1
H	4996.100	38.5	32.6	14.8	32.4	95.2	24.5	-17.3	9.5	-26.8
V	4996.100	43.2	32.5	14.8	32.4	95.2	24.5	-12.7	9.5	-22.2
V	5299.200	43.4	34.1	15.7	32.4	95.2	24.5	-9.9	9.5	-19.4
H	5299.200	41.7	34.3	15.7	32.4	95.2	24.5	-11.4	9.5	-20.9
H	5056.400	38.3	34.3	15.8	32.3	95.2	24.5	-14.6	9.5	-24.1
V	5056.400	41.6	34.1	15.8	32.3	95.2	24.5	-11.5	9.5	-21.0

Calculations	G=C+D+E-F-F1+F2	I=G-H

8 AC MAINS LINE-CONDUCTED DISTURBANCE

This test was not applicable to the EUT because it does not connect to the ac mains.

9 REVISION HISTORY

Revision Level	Date	Report Number	Notes
Original issue	June 30, 2004	3061299-40-1-0	--
1	October 7, 2004	3061299-40-1-1	Changed reference in Section 5.1 from CFR 47 15.510 to CFR 47 15.517. Corrected Sections 5.2 and 6.2 to reference the RMS detector of the FSP40 that was used during testing. Corrected Section 7.2 to reference the 3 MHz instrument setting actually used.