

# **Electromagnetic Compatibility Test Report**

*Prepared in accordance with*

**FCC Part 15: October 2007, RSS-210: June 2007**

On

## **Electronic Article Surveillance Detection System Evolve P10, Evolve G10**

Prepared for:

Checkpoint Systems Inc.



101 Wolf Drive

Thorofare, NJ 08086

Prepared by:

**TUV Rheinland of North America, Inc.**

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<b>Auftraggeber:</b> <i>Client:</i>		Checkpoint Systems Inc. 101 Wolf Drive Thorofare, NJ 08086	Gregory Sleet (856) 384-2339 / (856) 384-2366 GREG.SLEET@checkpt.com
<b>Bezeichnung:</b> <i>Identification:</i>	Electronic Article Surveillance Detection System	<b>Serien-Nr.:</b> <i>Serial No.</i>	741085900U03517018, 741085900U03517019, 7411639C2D13617020, 7411639C2D10158033
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>	Evolve P10, Evolve G10	<b>Prüfdatum:</b> <i>Date tested:</i>	March 24th - 26th, 2008
<b>Prüfort:</b> <i>Testing location:</i>	TUV Rheinland of North America 12 Commerce Road Newtown, CT 06470-1607 U.S.A.		
<b>Prüfgrundlage:</b> <i>Test specification:</i>	Emissions: FCC Part 15 Subpart C: October 2007 / RSS-210: June 2007 FCC Part 15 Subpart 15.223/RSS-210 Annex A2.3 FCC Part 15 Subpart 15.205 and 15.209		
<b>Prüfergebnis:</b> <i>Test Result</i>	<b>Der vorstehend beschriebene Prüfgegenstand wurde geprüft und entspricht oben genannter Prüfgrundlage. The above product was found to be Compliant to the above test standard(s)</b>		
<b>geprüft / tested by:</b> Dieter Baldamus		<b>kontrolliert / reviewed by:</b> Bruce Fagley	
8 April 2008 <b>Datum</b> <i>Date</i>		8 April 2008 <b>Datum</b> <i>Date</i>	
<b>Name</b> <i>Name</i>		<b>Name</b> <i>Name</i>	
<b>Unterschrift</b> <i>Signature</i>		<b>Unterschrift</b> <i>Signature</i>	
<b>Sonstiges :</b> <i>Other Aspects:</i>	<b>None</b>		
Abkürzungen: OK, Pass, Compliant, Complies = entspricht Prüfgrundlage Fail, Not Compliant, Does not Comply = entspricht nicht Prüfgrundlage N/A = nicht anwendbar	Abbreviations: OK, Pass, Compliant, Complies = passed Fail, Not Compliant, Does Not Comply = failed N/A = not applicable		
		<b>Industry Canada</b>	
<b>US5112</b>	<b>200111-0</b>	<b>3466D-1</b>	

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## **1 General Information**

### **1.1 Scope**

This report is intended to document the status of conformance with the requirements of the FCC Part 15: October 2007, RSS-210: June 2007 based on the results of testing performed on March 24th - 26th, 2008 on the Electronic Article Surveillance Detection System, Model No. Evolve P10, Evolve G10, manufactured by Checkpoint Systems Inc.. This report only applies to the specific samples tested under the stated test conditions. It is the responsibility of the manufacturer to assure that additional production units of this model are manufactured with identical or EMI equivalent electrical and mechanical components. This report is further intended to document changes and modifications to the EUT throughout its life cycle. All documentation will be included as a supplement.

### **1.2 Purpose**

Testing was performed to evaluate the EMC performance of the EUT (Equipment Under Test) in accordance with the applicable requirements, procedures, and criteria defined in the application of regulations and application of standards listed in this report.

### 1.3 Summary of Test Results

<b>Applicant</b>	Checkpoint Systems Inc. 101 Wolf Drive Thorofare, NJ 08086	<b>Tel</b>	(856) 384-2339	<b>Contact</b>	Gregory Sleet
		<b>Fax</b>	(856) 384-2366	<b>e-mail</b>	GREG.SLEET@checkpt.com
<b>Description</b>	Electronic Article Surveillance Detection System	<b>Model Number</b>	Evolve P10, Evolve G10		
<b>Serial Number</b>	741085900U03517018, 741085900U03517019, 7411639C2D13617020, 7411639C2D10158033	<b>Test Voltage/Freq.</b>	120V/60Hz		
<b>Test Date Completed:</b>	March 24th - 26th, 2008	<b>Test Engineer</b>	Dieter Baldamus		
<b>Standards</b>	<b>Description</b>	<b>Severity Level or Limit</b>		<b>Criteria</b>	<b>Test Result</b>
FCC Part 15 Subpart C: October 2007 / RSS-210: June 2007	Intentional Radiators / Low Power Licenced Exempt Radiocommunication Devices	See called out sections below		See Below	Complies
FCC Part 15 Subpart 15.223/RSS-210 Annex A2.3	Operation in the band 1.705- 10 MHz	100µV/m @30m		Limit	Complies
FCC Part 15 Subpart 15.207	Conducted limits	Per table in section 207, 150kHz - 30MHz		Limit	Complies
FCC Part 15 Subpart 15.205 and 15.209	Radiated emission limits; general requirements	Class B and per table in section 205 From Fundamental - 1000MHz		Limit	Complies

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## **2 Laboratory Information**

### **2.1 Accreditations & Endorsements**

#### **2.1.1 US Federal Communications Commission**

TUV Rheinland of North America located at 12 Commerce Road, Newtown CT is accredited by the commission for performing testing services for the general public on a fee basis. This laboratory test facilities have been fully described in reports submitted to and accepted by the FCC (Registration No US5112). The laboratory scope of accreditation includes: Title 47 CFR Part 15, and 18. The accreditation is updated every 3 years.

#### **2.1.2 NIST / NVLAP**

Program, which is administered under the auspices of the National Institute of Standards and Technology. The laboratory has been assessed and accredited in accordance with ISO Standard 17025:2005 (Lab code: 200111-0). The scope of laboratory accreditation includes emission and immunity testing. The accreditation is updated annually.

#### **2.1.3 Industry Canada**

Registration No.: 3466D-1. The OATS has been accepted by Industry Canada to perform testing to 3 and to 10m, based on the test procedures described in ANSI C63.4-2003.

### **2.2 Measurement Uncertainty**

The estimated combined standard uncertainty for radiated emissions measurements is  $\pm 3.2$  dB  
The estimated combined standard uncertainty for conducted emissions measurements is  $\pm 1.2$ dB

### **2.3 Calibration Traceability**

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Measurement method complies with ANSI/NCSL Z540-1-1994 and ISO Standard 17025:2005. Equipment calibration records are kept on file at the test facility.

## 2.4 Measurement Equipment Used

Equipment	Manufacturer	Model #	Serial/Inst #	Last Cal dd/mm/yy	Next Cal dd/mm/yy	Test
Power Supply	California Instruments	5001iX	HK53766	08/04/07	08/04/08	All
Antenna, Log. Periodic	Emco	3146	9309-3689	03/13/05	03/13/07	RE, RI
Antenna, Bicon	Emco	3108	2234	06/26/06	06/26/08	RE, RI
Receiver	Hewlett Packard	HP 8546A, 85460A	3330A00125, 3325A00134	03/16/06	03/16/07	CE, DP, CE
Antenna, Bilog	Schaffner	CBL6112D	22238	04/04/06	04/04/08	RE
LISN	Schwarzbeck	NSLK 8126A (4 x 25A)	8126278	08/26/06	08/26/08	CE
Magnetic Field Loop Antenna	Schwarzbeck	FMZB 1516	151600/94	09/11/27	09/11/09	RE<30MHz

Note: CE = Conducted Emissions, CI= Conducted Immunity, DP=Disturbance Power, EFT=Electrical Fast Transients, ESD = Electrostatic Discharge, FLI=Flicker, HAR=Harmonics, MF=Magnetic Field Immunity, RE=Radiated Emissions, RI=Radiated Immunity, SI=Surge Immunity, VDSI=Voltage Dips and Short Interruptions

### 3 Product Information

#### 3.1 Equipment Under Test (EUT) Description

The Evolve Antenna's with Emerald Electronic are Electronic Article Surveillance System (EAS). The system detects target tags attached to merchandise. The targets resonate in the region of 8.2 MHz or 9.5 MHz. When an article of merchandise is purchased, the target is deactivated which causes it to no longer resonate. The Evolve Antenna's with Emerald Electronic monitors an area 3-feet on either side of the antenna in the 7.4 to 10.0 MHz range and triggers an alarm when a non-deactivated target is detected.

#### 3.2 Engineering Judgment on Selected Models

##### 3.2.1 General

This is an Engineering Judgment on Electromagnetic Compatibility (EMC) compliance and radio equipment matters, pertaining to modifications made or additional models associated with the product tested in this report.

##### 3.2.2 Additional Models

The Evolve Family consists of different versions Evolve G10, Evolve G20, Evolve P10, Evolve P20 and Liberty PX. All versions are using the same type of power supply unit and are technically identical except they have different types of antenna frames G10, G20, P10, P20, Liberty PX.

##### 3.2.3 Engineering Judgment

The worst case conditions for the complete measurements were base on the size of the antennas. The G10 and the P10 are the largest inductive loop sizes, hence will produce highest EM field strength. Therefore only these two were tested as representative of the other models.

<i>Reviewed by NVLAP Signatory:</i>	
Bruce Fagley	
<hr/>	
8 April 2008	
<i>Date</i>	<i>Signature</i>



### 3.3 General Product Information

<b>Antenna: Transmitter-Receiver Type</b>	Inductive Loop Antennas		
<b>Antenna</b>	EVOLVE P10	EVOLVE G10	
<b>Width</b>	460 mm	500 mm	
<b>Height</b>	1430 mm	1390 mm	
<b>Power supply of the transmitter: Type:</b>	GS 599ES(R)	<b>Nominal voltage:</b>	<b>24.0 V</b>
		<b>Lowest voltage:</b>	<b>18.0 V</b>
		<b>Highest voltage:</b>	<b>25.0 V</b>
		<b>Current consumption</b>	<b>0.5 A</b>

#### Configuration 1:

FCC/IC System Setup				
Antenna Aisles, 200 cm hor. Center to hor. Center	Serial Number	PSU	Max Tx Pwr Setting In DMS (Ant1, Ant2)	Frequency Band in DMS
<b>EVOLVE G10 (ver 2.83 firmware installed)</b>	741085900U03517018	GS 599ES(R)	29	8.2
	741085900U03517019		27	9.0(dual band)
<b>EVOLVE P10 (ver 2.83 firmware installed)</b>	7411639C2D13617020	GS 599ES(R)	31	8.2
	7411639C2D10158033		31	9.0(dual band)

#### Configuration 2:

FCC/IC System Setup				
Antenna Aisles, 200 cm hor. Center to hor. Center	Serial Number	PSU	Max Tx Pwr Setting In DMS (Ant1, Ant2)	Frequency Band in DMS
<b>EVOLVE G10 (ver 2.83 firmware installed)</b>	741085900U03517018	GS 599ES(R)	29	8.2
	741085900U03517019		28	9.0(dual band)
<b>EVOLVE P10 (ver 2.83 firmware installed)</b>	7411639C2D13617020	GS 599ES(R)	31	8.2
	7411639C2D10158033		31	9.0(dual band)

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### **3.4 EUT Modes of Operation**

The equipment under test was operated during the measurement under the following conditions:

- Continuous sweep mode at 8.2 MHz Band
- Continuous sweep mode at 9.0 MHz Dual Band

### **3.5 EUT Test Configurations**

The equipment under test was tested in the following configurations:

#### **Configuration 1:**

- a) A CheckPro Manager Visiplus, Checkpoint P/N 7414480, mounted to the Evolve P10 crossover, and interfaced to Emerald electronics via signal cable integrated with Evolve P10 pedestal.
- b) Single Color LED pcb with a two layer pcb for G10 with ferrite beads on the DC power and LED INHIBTnhhibit cables.
- c) Fair Rite P/N 2861-000-202, or Checkpoint P/N 919618 inductive transformer cores for components T2 and T5 on Emerald \*61 printed circuit board (pcb)
- d) EAS Voice Alarm in Horizontal orientation.
- e) Firmware version 2.81 Emerald \*61 electronics.

#### **Configuration 2:**

- a) An alternate configuration in which the Visiplus is remote from the Evolve P10 pedestal.
- b) Alternate dual color LED pcb for G10 with a four layer board and no ferrites.
- c) Alternate Micrometals P/N BLN12461-263/BU, or Checkpoint P/N 7235629 inductive transformer cores for components T2 and T5 on Emerald \*61 printed circuit board (pcb).
- d) EAS Voice Alarm in Vertical orientation.
- e) Firmware version 2.83 installed on Emerald \*61 electronics.

### 3.6 Electrical Support Equipment

- 1) Laptop: IBM A22m
- 2) Phone simulator: Viking model DLE-200B (SM) with Viking model PS-1 PSU
- 3) Modem: Smart One Model 56 SPX-2 / 56SX-2 modem with TL Part #A091ooUS PSU
- 4) RJ-11 cable from phone simulator to Smart One modem and then to Checkpoint modem module.

### 3.7 Non - Electrical Support Equipment

None

### 3.8 EUT Equipment/Cabling Information

EUT Port	Connected To	Location	Cable Type	
			Length	Shielded
J72	Checkpro Manager Visiplus (Configuration 1)	Controller	2.4m	No
J72	Checkpro Manager Visiplus (Configuration 2)	Controller	30m	No
J13	Metal Point	Controller	2.4m	No
J6/J7/J54	Deactivation Interlock 4/3/2 ext. Sounder	Controller	2.4m	No
J20/J22	Pedestal Synchronization	Controller	2.4m	No
J48	Badge	Controller	0.5m	No
J18 or J31	Pedestal Main Power	Controller	0.3m	No
J41	External Counter	Controller	4.2m	No
	External Alarm Lights			
J9	Alarm Group	Controller	4.2m	No
	External Alarm Group			
J44/J45	External Relay 0/1	Controller	4.2m	No
J10/J14	Inter pedestal Network Com.	Controller	2.4m	No
J7	Ethernet/LAN	Controller	5m	No
J51	Internal Modem	Controller	0.5m	No
DC Power	DC Power	Controller	2.4m	No

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### **3.9 Modifications**

- One clip-on ferrite - Fair Rite P/N 0443806406, Checkpoint P/N 284760 (4 turns) was installed on both ends of the SYNC cable between master and submaster pedestals.
- Firmware updated to version 2.83 on Emerald \*61 electronics from version 2.81 in the most recent update of January 2008. 3) Digital accessories mounted to Evolve pedestals, they are:
  - One internal modem, Checkpoint P/N 7284468, assembly mounted adjacent to Emerald \*61 electronics on Evolve master pedestal, interfaced to Emerald electronics via RJ-45 cable and 24 Vdc power cable.
  - One CheckPro Manager Visiplus, Checkpoint P/N 7414480, mounted to the Evolve P10 crossover, and interfaced to Emerald electronics via signal cable integrated with Evolve P10 pedestal. An alternate configuration in which the Visiplus is remoted from the Evolve P10 pedestal is also qualified.
  - One EAS Voice alarm, Checkpoint P/N 7899324, in both vertical and horizontal mount positions is interfaced with Evolve P10 and G10 master pedestals' Emerald \*61 electronics and remoted via Belden 8723 cable.
- For Evolve G10 model only, the 4-layer, dual-color LED printed circuit board (pcb) is qualified as an option to the original 2-layer, single-color LED pcb. Mounting bracket for the dual color LED pcb is such that the pcb is grounded to the bracket whereas the single color LED pcb has no grounding to its mounting bracket. Also, the ferrite beads installed on the single color LED pcb signal and power leads is not installed on the dual color LED pcb.
- Micrometals P/N BLN12461-263/BU, or Checkpoint P/N 7235629 inductive transformer cores is qualified as alternate to Fair Rite P/N 2861-000-202, or Checkpoint P/N 919618 for components T2 and T5 on Emerald \*61 printed circuit board (pcb).

### 3.10 Modification Pictures

<b>Ferrite Modification and Location</b>				
Figure	Component / Sub- Assembly	Part No. & Description	Config. 1	Config. 2
1	Ferrite	Checkpoint P/N 284760 (Fair Rite P/N 0443806406) – Add one ferrite in each people counter cable with three turns through the ferrite.	Yes	No
2	Ferrite	(Optional) Checkpoint P/N 7235629 (Micrometals P/N BLN3961-263/BU) – Add as transformer assembly T2 and T5 on Emerald Transmitter RF circuit path.	No	Yes
3, 4	Ferrite	Checkpoint P/N 284760(Fair Rite P/N 0443806406) – Add one ferrite in each end of Cat 5E SYNC/COMM cable (or Belden 82723 Cable for Sync only) run between Master and Submaster Evolve antennas	Yes	Yes
5,6	Ferrite	(Optional) Würth Ferrite Pearl (74270020) Add one ferrite with 2 turns through the ferrite in LED INHIBIT Cable. Applicable to Evolve G10 antenna.	Yes	No
5,6	Ferrite	(Optional) Checkpoint P/N 7118986 (Fair Rite P/N 2865-000-202) – Add one ferrite with 2 turns through the ferrite LED PSU Cable. Applicable to Evolve G10 antenna.	Yes	No

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Figure 1 – Fair Rite P/N 0443806406 installed on people counter cable; Configuration 1

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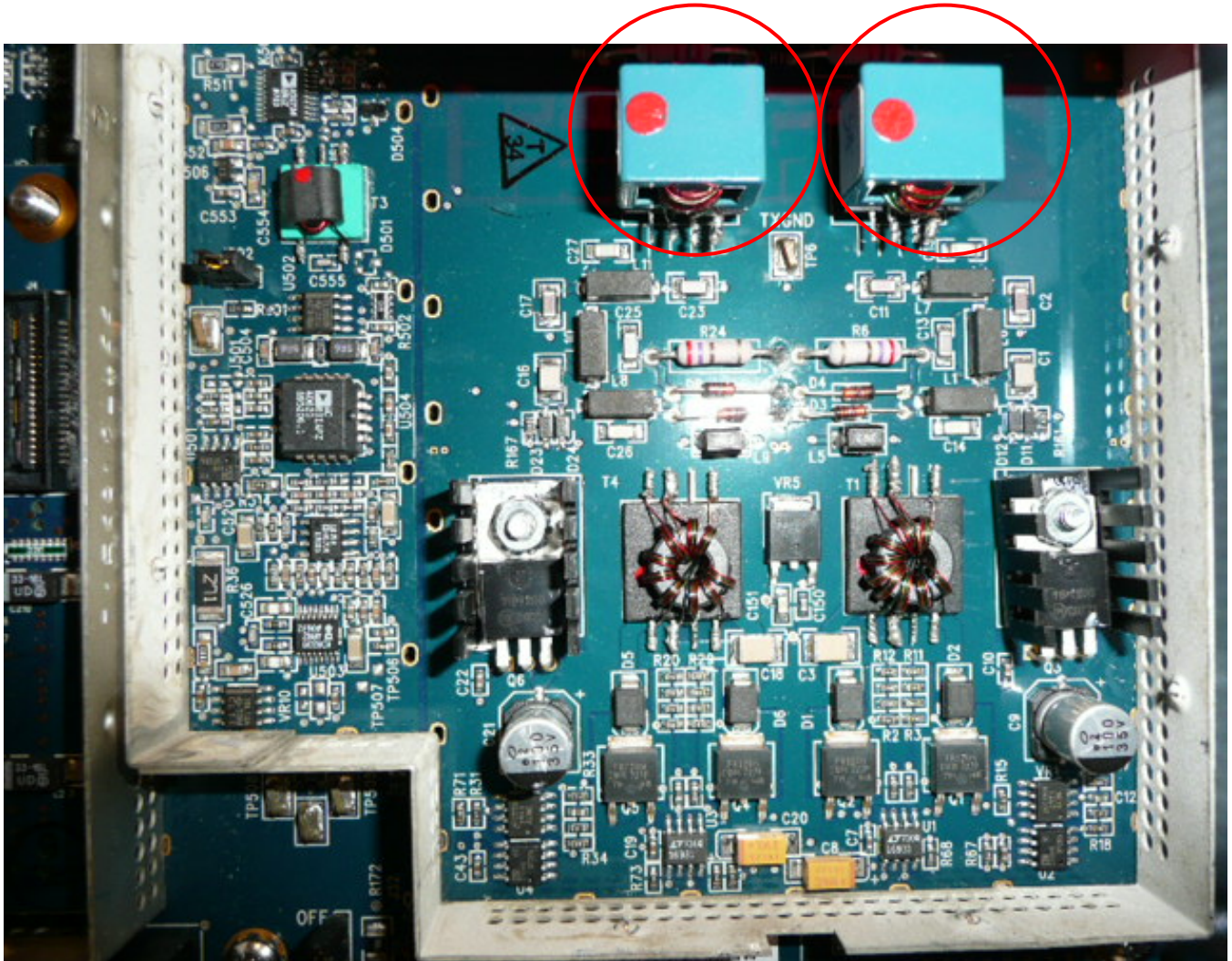


Figure 2 – Micormetals Cores added as transformer assembly T2 and T5 on Emerald Transmitter RF circuit path.  
(Configuration 2)

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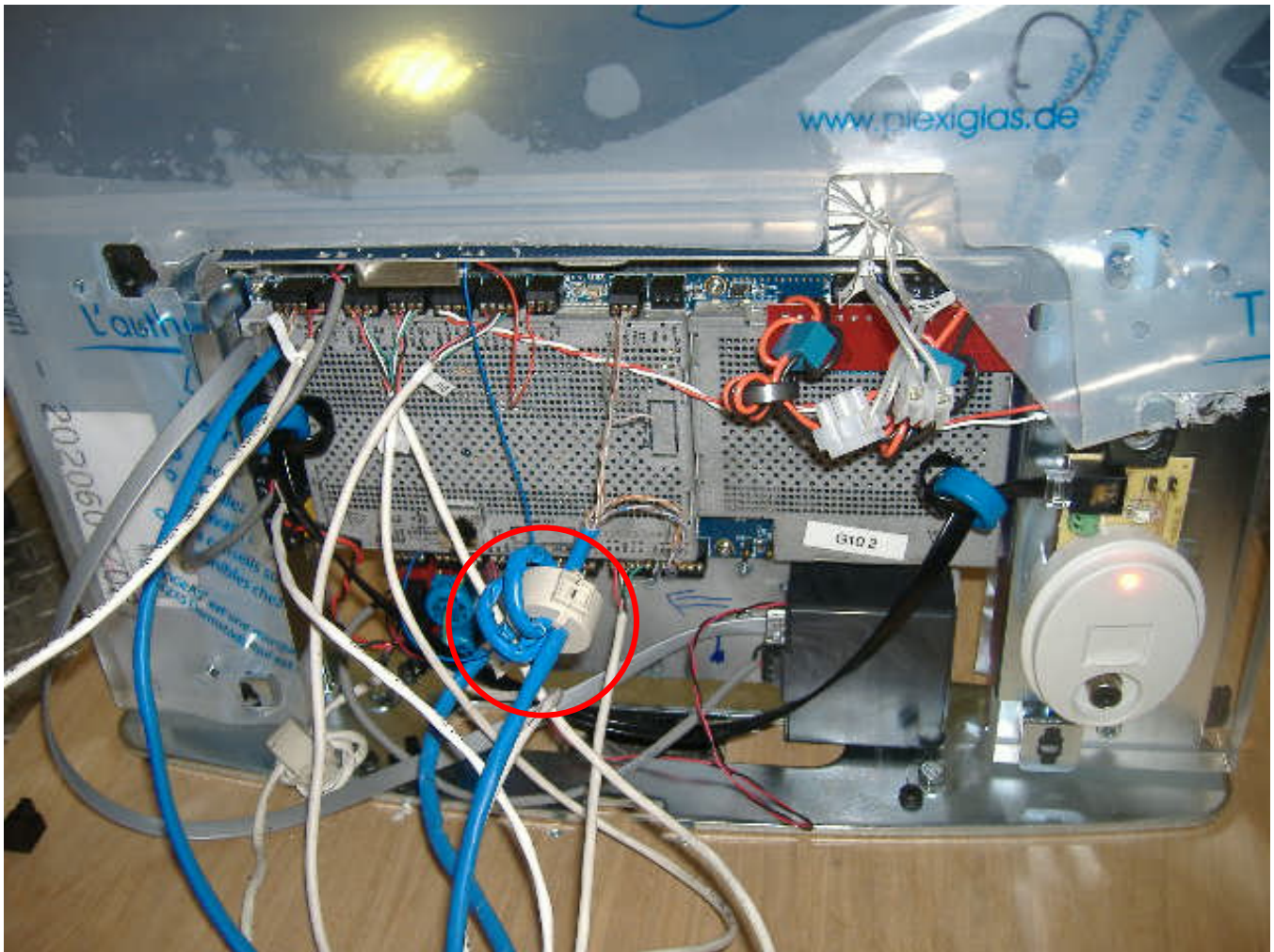


Figure 3 – Fair Rite 0443806406 (P/N 284760) installed on each end of Cat 5E SYNC/COMM. (Configuration 2)

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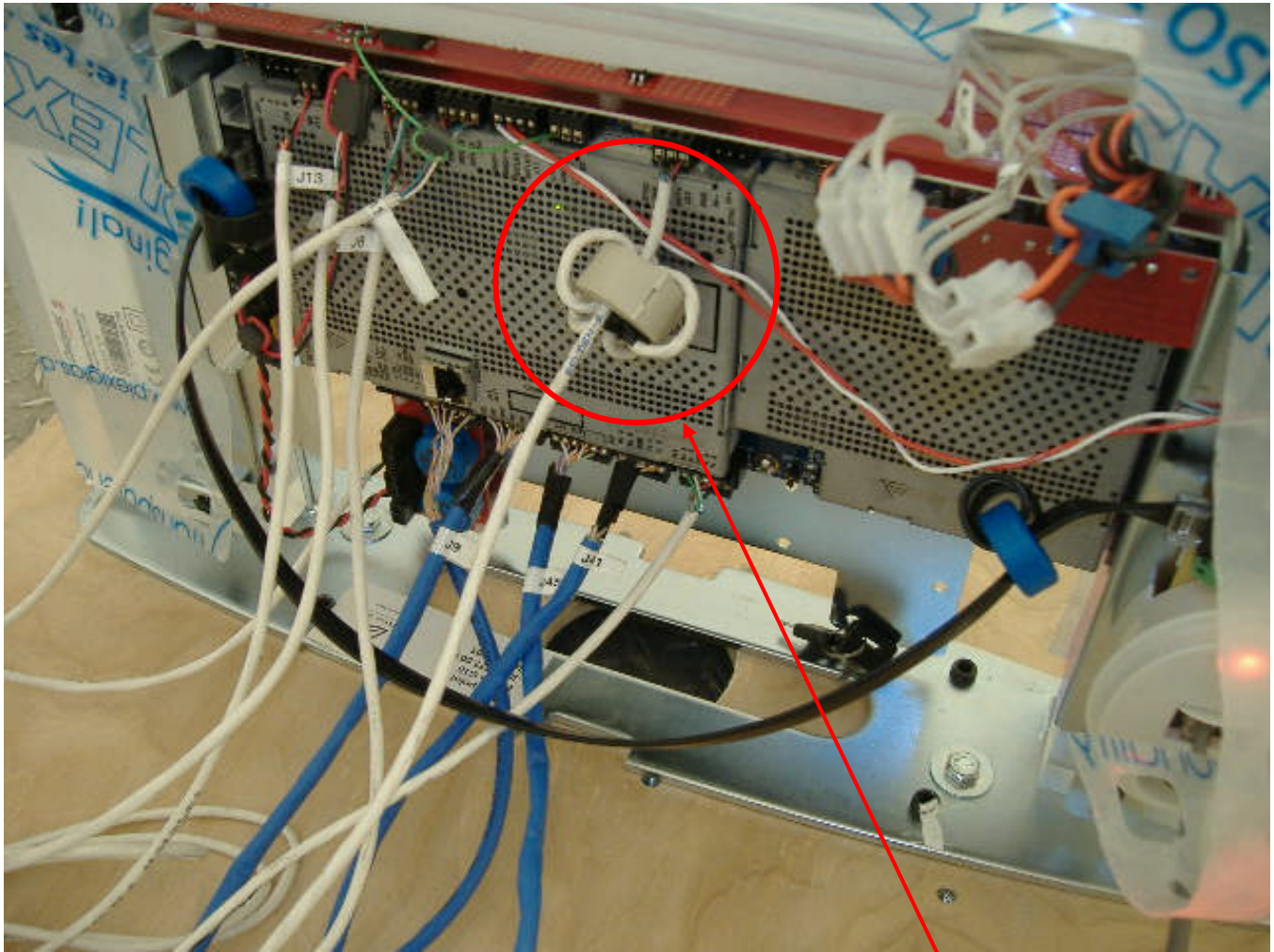


Figure 4 – Fair Rite 0443806406 (P/N 284760) installed on each end of SYNC cable (Belden 82723)  
(Configuration 1)

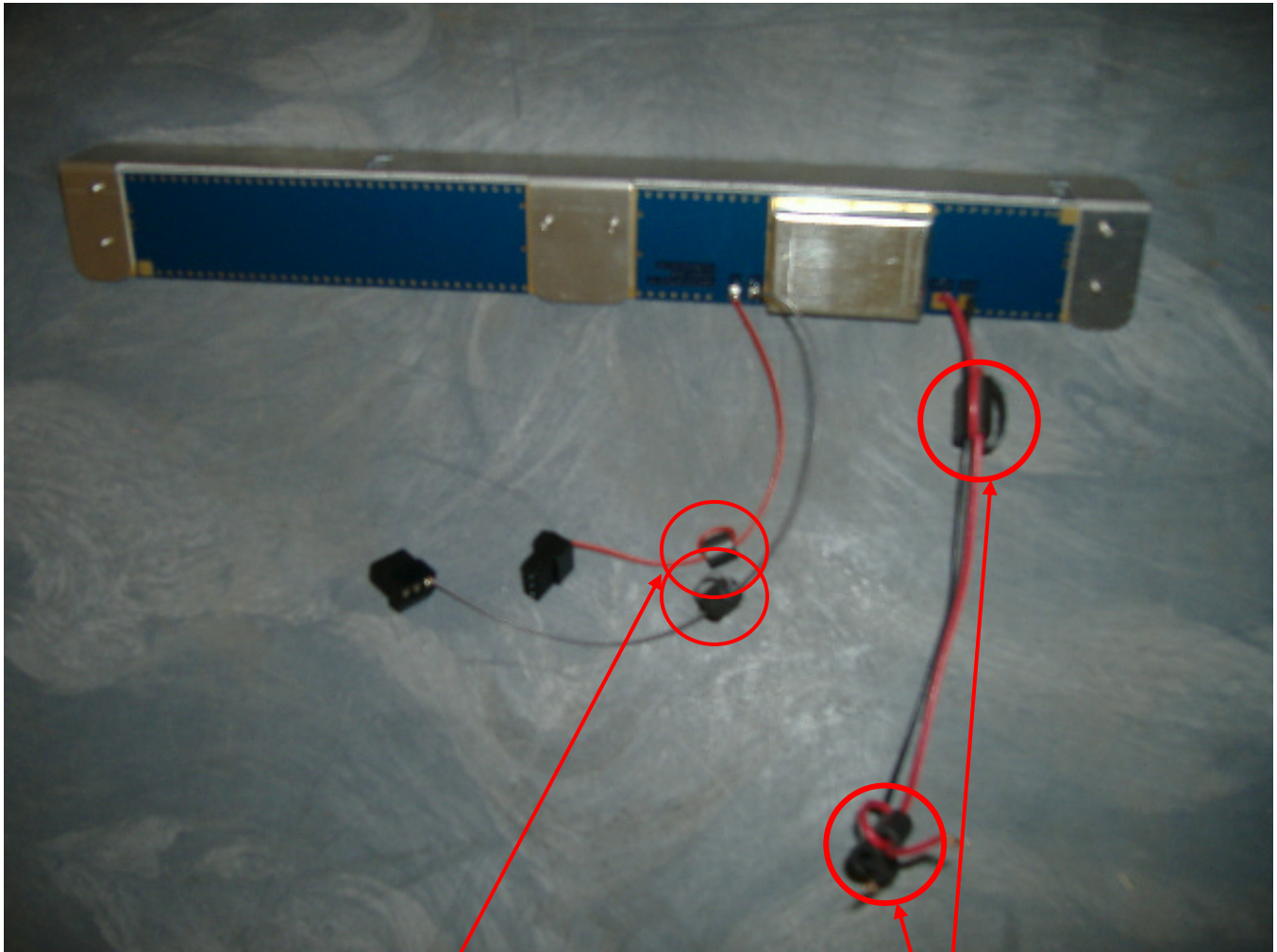


Figure 5 – Würth Ferrite Pearl (74270020) on LED INHIBIT and  
Ferrite with 2 turns through the ferrite LED PSU Cable.  
Applicable to Evolve G10 antenna. Configuration 1

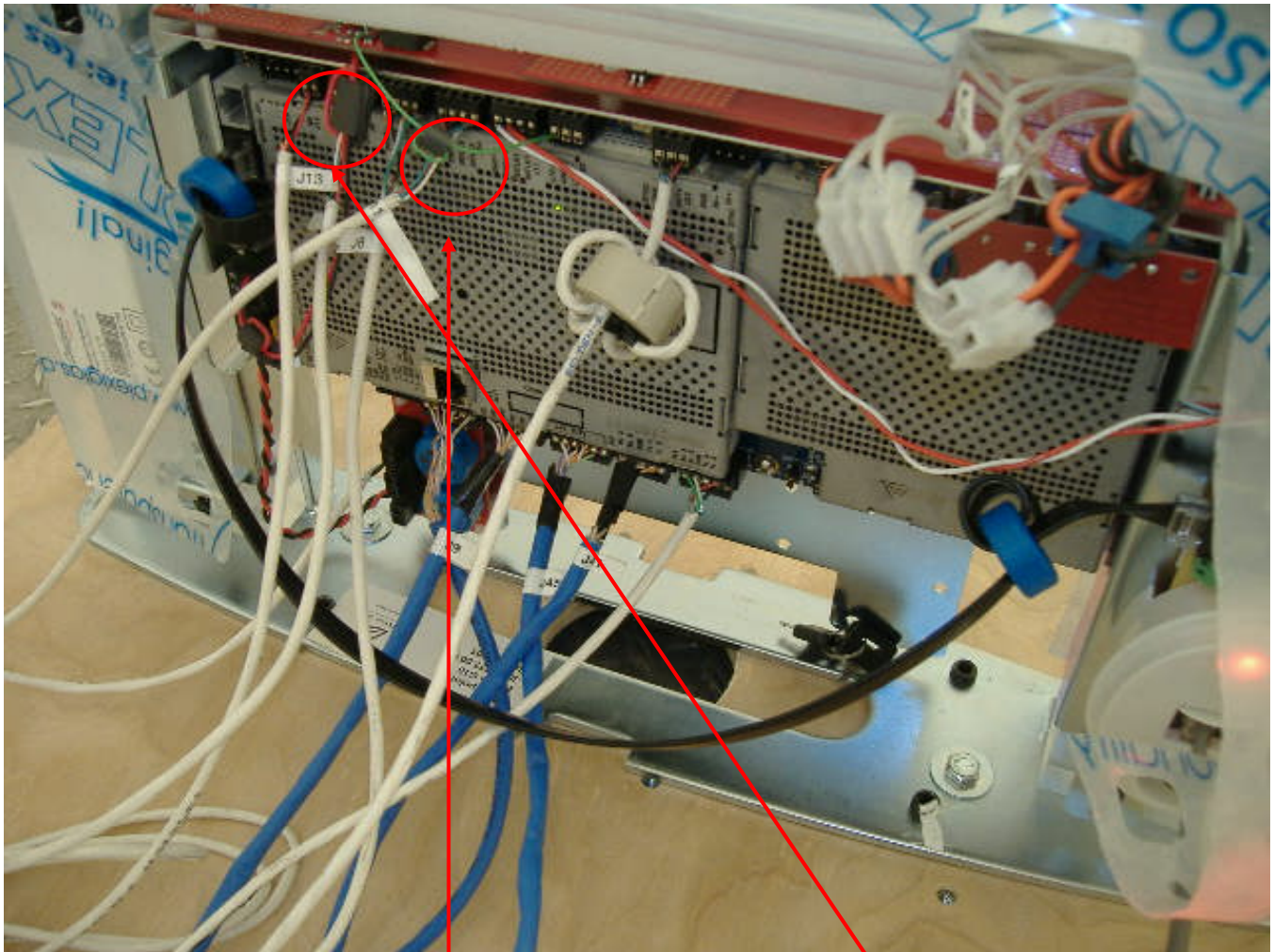


Figure 6 – Würth Ferrite Pearl (74270020) on LED INHIBIT and  
Ferrite with 2 turns through the ferrite LED PSU Cable.  
Applicable to Evolve G10 antenna. Configuration 1

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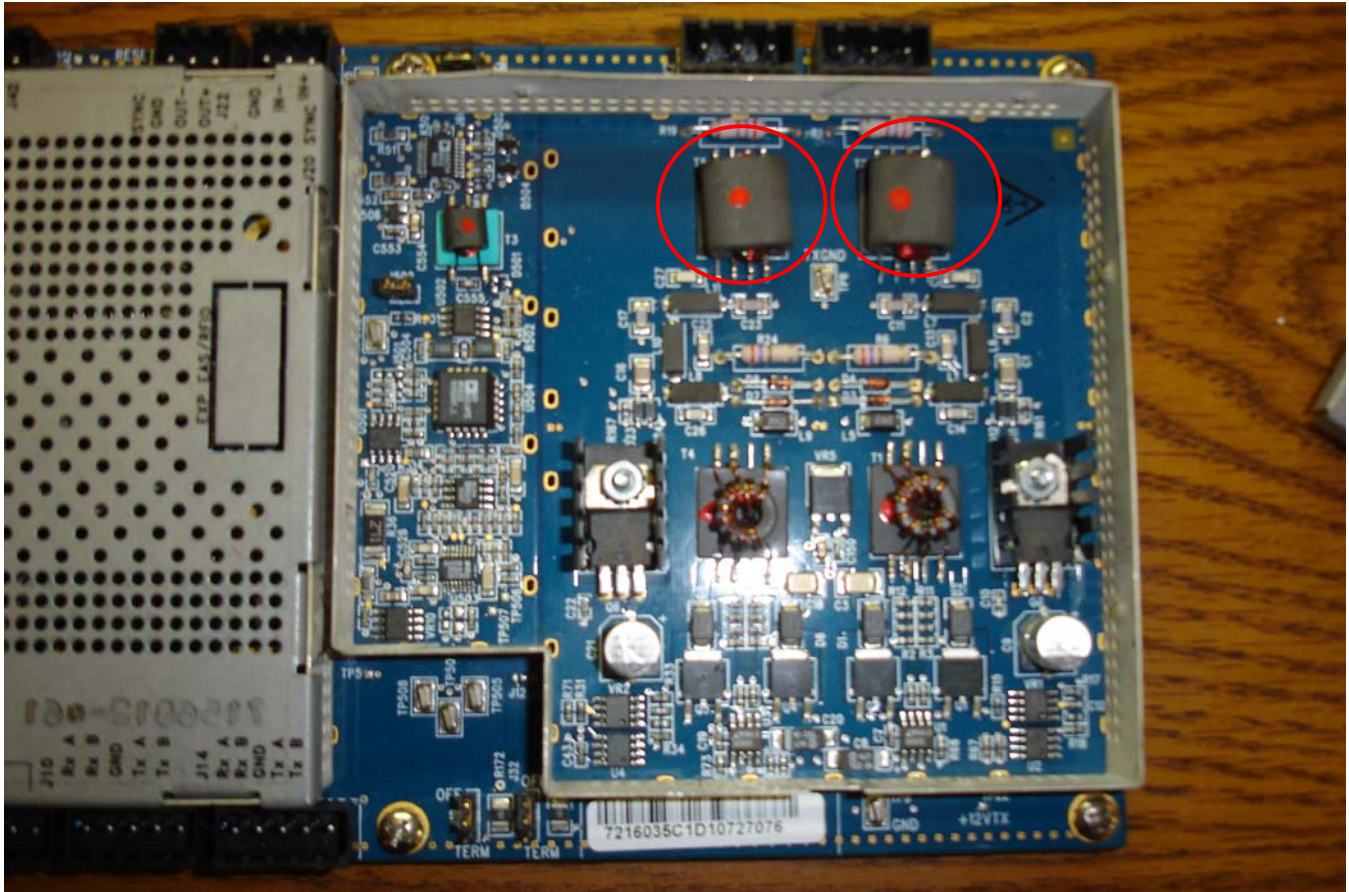


Figure 7 – Original transformer assembly T2 and T5 on Emerald Transmitter RF circuit path. (Configuration 1)

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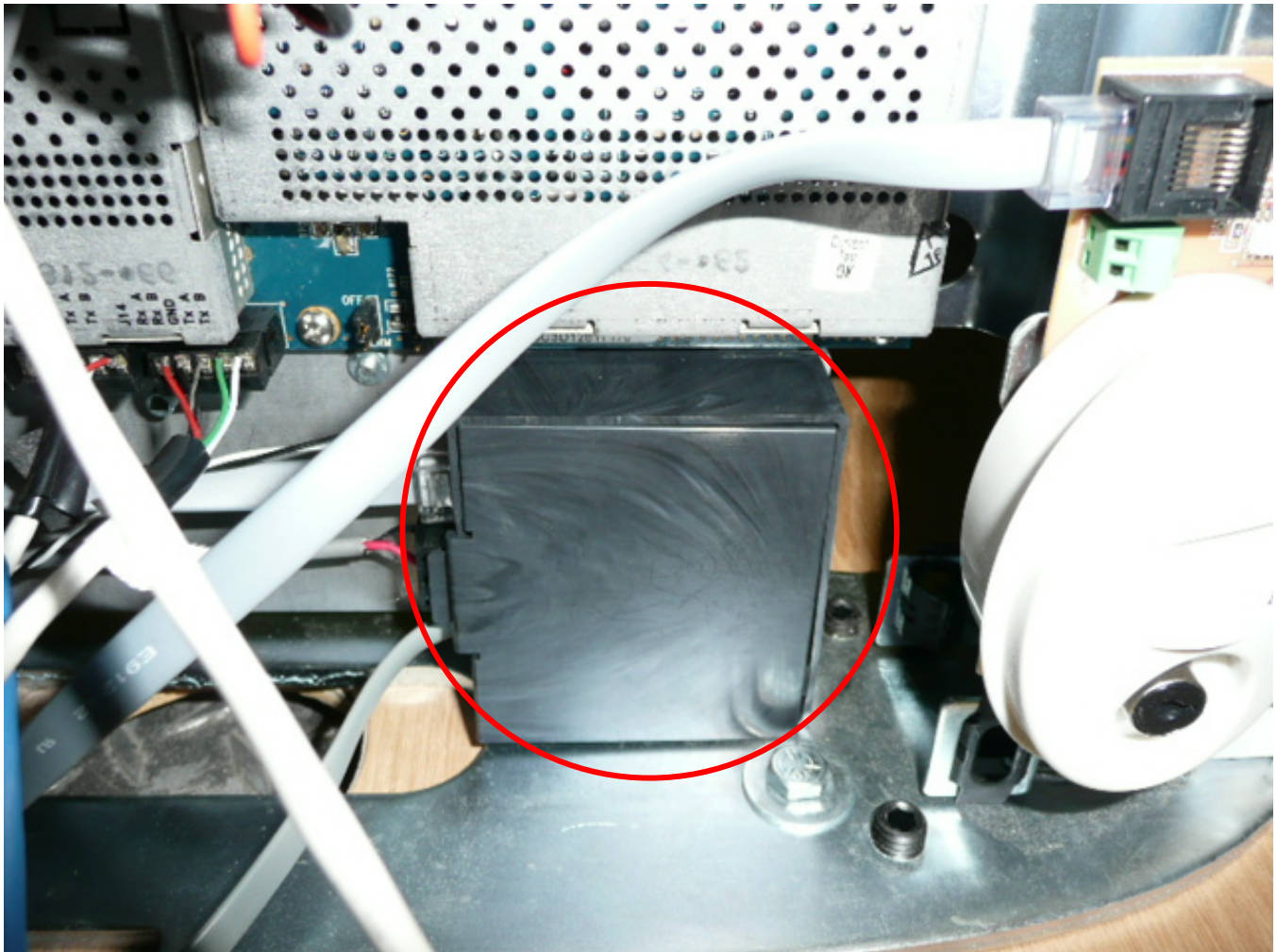


Figure 8 – Internal modem



Figure 9 – Internal modem (internal Picture)

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Figure 10 – CheckPro Manager Visiplus (configuration 1)

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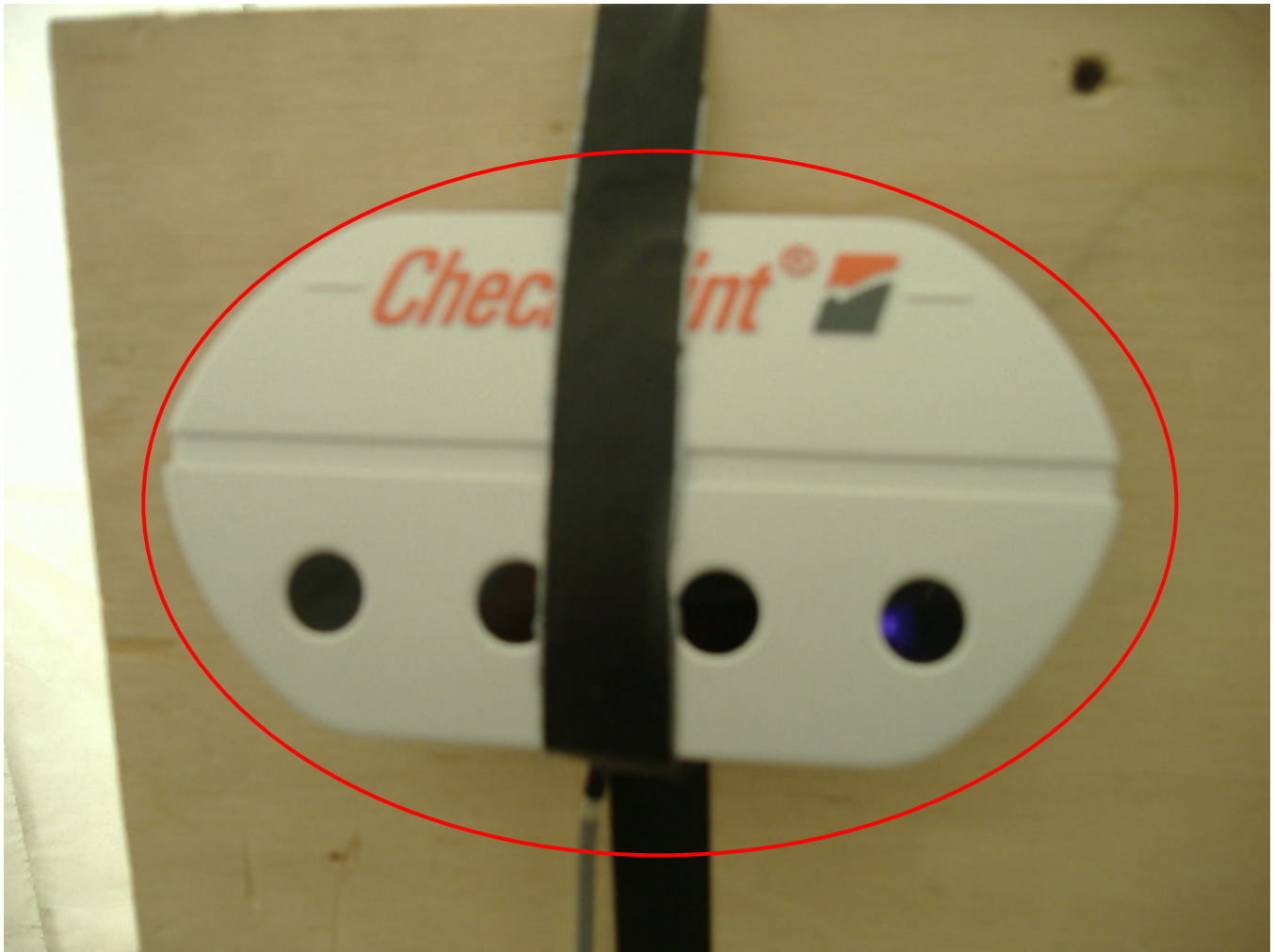


Figure 11 – Remote CheckPro Manager Visiplus (configuration 2)



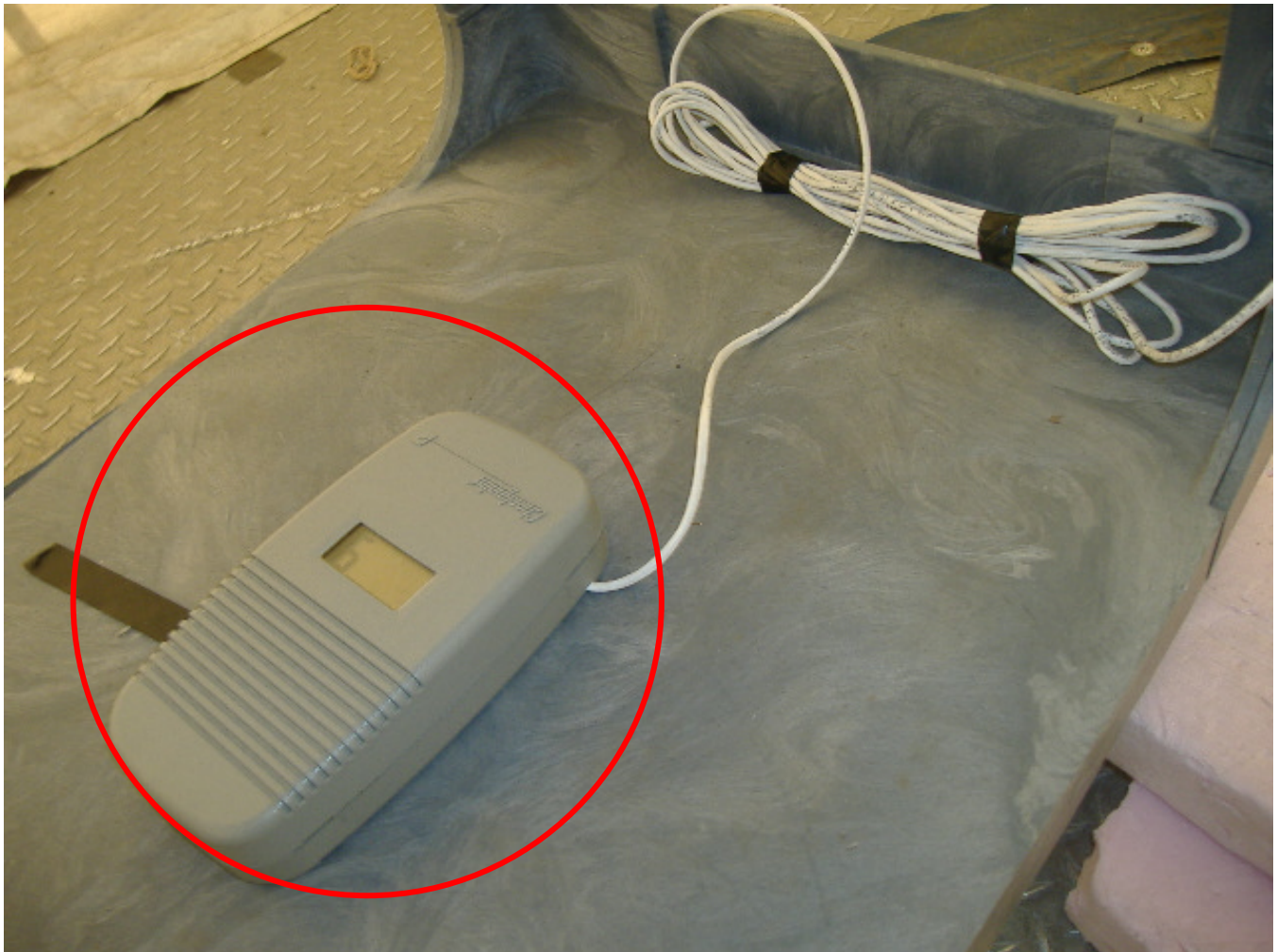


Figure 12 –EAS Voice alarm Configuration 1

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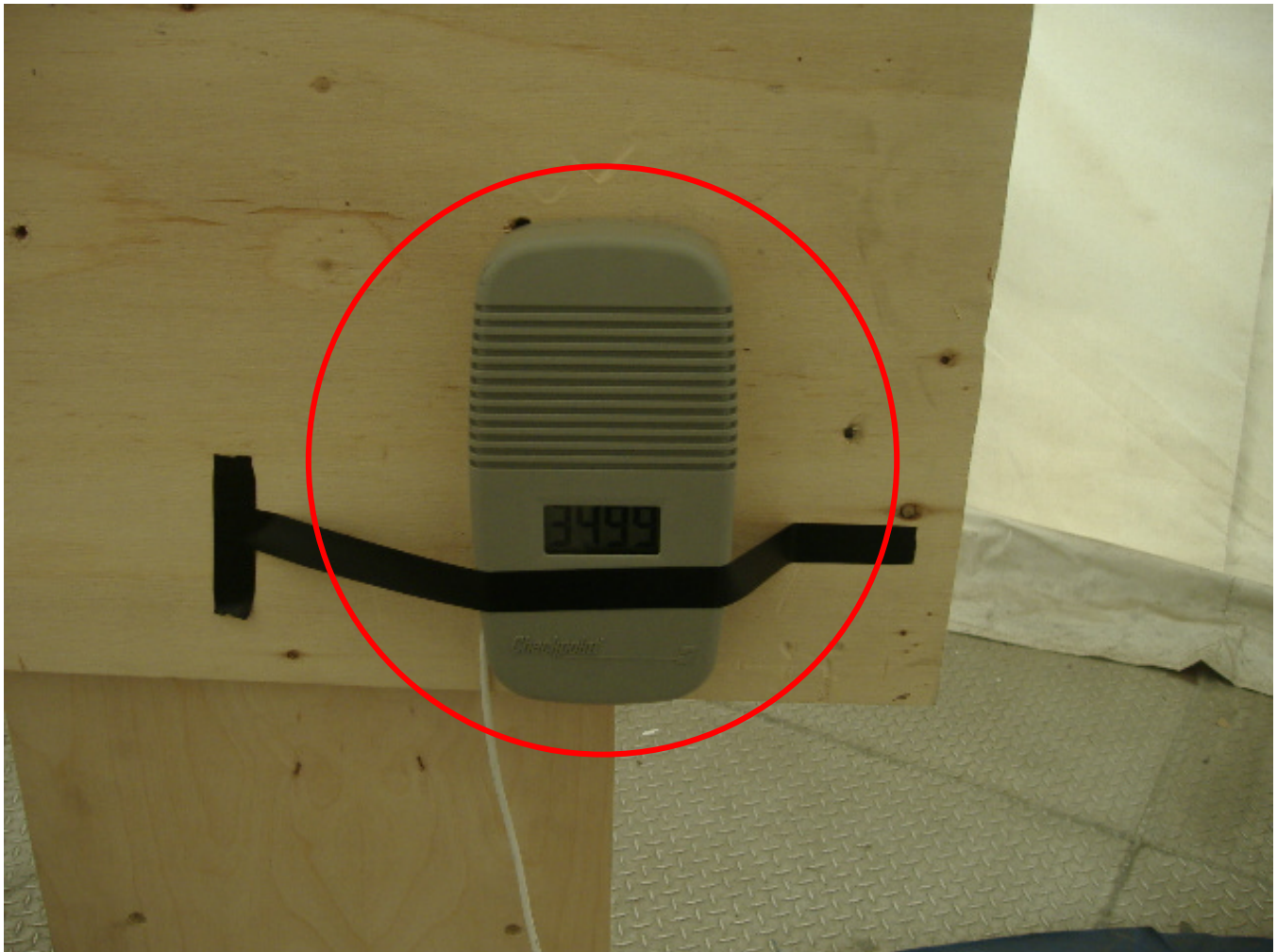


Figure 13 –EAS Voice alarm Configuration 2

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Figure 14 – Remote CheckPro Manager Visiplus and EAS Voice alarm. Configuration 2

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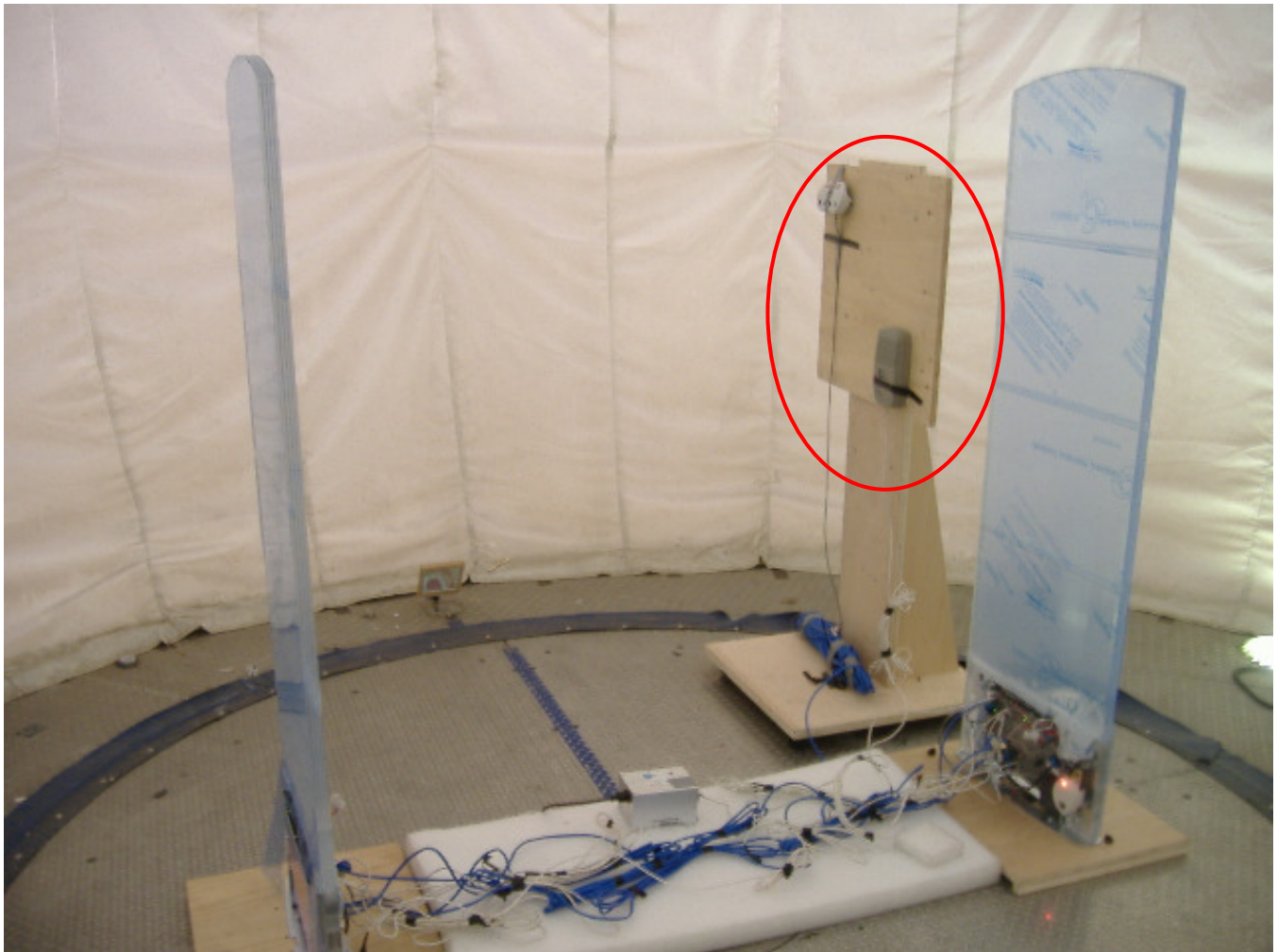


Figure 15 – Remote CheckPro Manager Visiplus and EAS Voice alarm. Configuration 2

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## 4 Measurements

### 4.1 Operation in the band 1.705-10MHz

This test measures the electromagnetic levels of spurious signals generated by the EUT that radiated from the EUT and may affect the performance of other nearby electronic equipment.

#### 4.1.1 Over View of Test

<b>Results</b>	<b>Complies</b> (as tested per this report)			<b>Date</b>	02/28-29/2008		
<b>Standard</b>	FCC Part 15 Subpart 15.223/RSS-210 Annex A2.3						
<b>Product Model</b>	Evolve P10, Evolve G10		<b>Serial#</b>	741085900U03517018, 741085900U03517019, 7411639C2D13617020, 7411639C2D10158033			
<b>Configuration</b>	See test plan for details						
<b>Test Set-up</b>	Tested on a 10m O.A.T.S. placed on turn-table, see test plans for details						
<b>EUT Powered By</b>	120V/60Hz	<b>Temp</b>	22°C	<b>Humidity</b>	45%	<b>Pressure</b>	1001mbar
<b>Frequency Range</b>	100µV @ 30m (see Note)						
<b>Perf. Criteria</b>	Below Limit		<b>Perf. Verification</b>	Readings Under Limit			
<b>Mod. to EUT</b>	None		<b>Test Performed By</b>	Dieter Baldamus			

Note: The limits were adjusted in dBµV for a 10m testing resulting in a peak limit of 80dBµV/m. Measurements have been made in all three orthogonal axes of loop antenna and the EUT was rotated to locate the maximum emissions.

#### 4.1.2 Test Procedure

The emissions tests on the fundamental signal were performed using the procedures of ANSI C63.4 including methods for signal maximizations and EUT configuration. The photos included with the report show the EUT in its maximized configuration.

The frequency range from 1.705 – 10MHz was investigated for this test using a magnetic field loop antenna.

### 4.1.3 Deviations

Measurement of the fundamental emissions – 1.705 to 10.0 MHz – was performed by setting a spectrum analyzer to “max-hold”, peak detector, 300 kHz bandwidth and a span from 7.4 MHz to 10 MHz. A resolution bandwidth of 300 kHz was used in performing the “true peak” measurements, 15, because increasing the bandwidth above 300 kHz did not increase the detected peak of the fundamental. The pulse desensitization correction factor was taken into account by using the alternate measurement basin the up-note HP 150-2.

### 4.1.4 Final Test

All final radiated emissions measurements were below (in compliance) the limits.

### 4.1.5 Final Measurement Data

#### Configuration 1 Evolve G10:

<b>Radiated Emissions Measurements</b>											
<b>Standard:</b>		47 CFR FCC Part 15.223			<b>PRESCAN or FINAL:</b>		Final		<b>Date:</b>		2/29/2008
<b>Device Tested:</b>		Checkpoint - Evolve G10			<b>Distance:</b>		10m		<b>File:</b>		08022901 Fundamental G10.xls
Measured Level											
Meas #	Freq (MHz)	Measured Peak (dBµV/m)	Antenna + Cable Correction Factor	Final Peak (dBµV/m)	Peak Limit	Peak □	Result	Orientation (X,Y,Z)	Angle (degrees)	Antenna Height (meters)	Comment
RBW = 300kHz VBW=300kHz (FCC Settings)											
9.0 Tx Band											
1	8.3170	56.22	18.50	74.72	80.00	-5.28	Complied	Y Orientation	345	1.00	
2	9.3580	60.65	18.50	79.15	80.00	-0.85	Complied	Y Orientation	345	1.00	
3	8.3170	60.83	18.50	79.33	80.00	-0.67	Complied	Z Orientation	358	1.00	
4	9.3570	61.43	18.50	79.93	80.00	-0.07	Complied	Z Orientation	358	1.00	
5	8.3360	55.47	18.50	73.97	80.00	-6.03	Complied	X Orientation	358	1.00	
6	9.2340	58.64	18.50	77.14	80.00	-2.86	Complied	X Orientation	354	1.00	
Tested by:		Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009											
Example:											
Freq:		Measured Level + (Antenna + Cable Correction Factor) = Final Peak									
8.317:		56.22 + 18.50 + 74.72									
Average limit = 100µV/m @ 30m											
Average Limit = 20*log(100µV) = 40dBµV/m @ 30m											
For 10m measurement the average limit was adjusted = 40log(10/30) = 20dB											
Average limit = 60dBµV/m @10m											
Peak Limit = Average Limit + 20dB = 60dBµV/m + 20dB = 80dBµV/m											

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**Configuration 1 Evolve P10:**

<b>Radiated Emissions Measurements</b>											
<b>Standard:</b>		47 CFR FCC Part 15.223				<b>PRESCAN or FINAL:</b>		Final	<b>Date:</b>		2/28/2008
<b>Device Tested:</b>		Checkpoint - Evolve P10				<b>Distance:</b>		10m	<b>File:</b>		08022802 Fundamental.xls
Measured Level											
Meas #	Freq (MHz)	Measured Peak (dBµV/m)	Antenna + Cable Correction Factor	Final Peak (dBµV/m)	Peak Limit	Peak □	Result	Orientation (X,Y,Z)	Angle (degrees)	Antenna Height (meters)	Comment
RBW = 300kHz VBW=300kHz (FCC Settings)											
9.0 Tx Band											
1	8.3300	44.97	18.50	63.47	80.00	-16.53	Complied	X Orientation	353	1.00	
2	9.8050	56.60	18.50	75.10	80.00	-4.90	Complied	X Orientation	356	1.00	
3	8.3040	51.01	18.50	69.51	80.00	-10.49	Complied	Y Orientation	298	1.00	
4	9.8050	52.69	18.50	71.19	80.00	-8.81	Complied	Y Orientation	295	1.00	
5	8.0700	48.57	18.50	67.07	80.00	-12.93	Complied	Z Orientation	358	1.00	
6	9.3370	51.99	18.50	70.49	80.00	-9.51	Complied	Z Orientation	354	1.00	
8.2TX Band											
7	8.4790	57.44	18.50	75.94	80.00	-4.06	Complied	Y Orientation	347	1.00	
8	7.9460	52.43	18.50	70.93	80.00	-9.07	Complied	X Orientation	345	1.00	
9	8.4550	57.05	18.50	75.55	80.00	-4.45	Complied	Z Orientation	345	1.00	
<b>Tested by:</b>		Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009											
Example:											
<b>Freq:</b>		Measured Level + (Antenna + Cable Correction Factor) = Final Peak									
8.333 MHz:		44.97dBµV/m + 18.5dB = 63.47dBµV/m									
Average limit = 100µV/m @ 30m											
Average Limit = 20*log(100µV) = 40dBµV/m @ 30m											
For 10m measurement the average limit was adjusted = 40log(10/30) = 20dB											
Average limit = 60dBµV/m @ 10m											
Peak Limit = Average Limit + 20dB = 60dBµV/m + 20dB = 80dBµV/m											

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**Configuration 2 Evolve G10:**

<b>Fundamental Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR FCC Part 15.223			<b>PRESCAN or FINAL:</b>	Final				3/25/2008	
<b>Device Tested:</b>	Checkpoint - Evolve G10			<b>Distance:</b>	10m				08032503 Fundamental G10 Report (FCC)	
<b>Mode:</b>	9.0TX Band and 8.2 Tx Band									
<b>Modification:</b>	Tx 28 Passing level, LED Board with NO ferrites Ferrite P/N 284760 on each end of Sync Cable with 4 turns									
Measured Level										
Meas #	Freq (MHz)	Measured Peak (dBµV/m)	Antenna + Cable Correction Factor	Final Peak (dBµV/m)	Peak Limit	Peak	Result	Orientation (X,Y,Z)	Angle (degrees)	Comment
RBW = 300kHz VBW=300kHz (FCC Settings)										
9.0 Tx Band										
1	8.0310	58.06	18.50	76.56	80.00	-3.44	Complied	X Orientation	345	
2	9.2980	60.18	18.50	78.68	80.00	-1.32	Complied	X Orientation	345	
3	8.3230	60.42	18.50	78.92	80.00	-1.08	Complied	Y Orientation	358	
4	9.3570	59.76	18.50	78.26	80.00	-1.74	Complied	Y Orientation	358	
5	8.3300	61.34	18.50	79.84	80.00	-0.16	Complied	Z Orientation	358	
6	9.0797	58.12	18.50	76.62	80.00	-3.38	Complied	Z Orientation	354	
RBW = 300kHz VBW=300kHz (FCC Settings)										
8.2 Tx Band										
7	7.9460	60.84	18.50	79.34	80.00	-0.66	Complied	X Orientation	345	
8	7.9200	60.87	18.50	79.37	80.00	-0.63	Complied	Y Orientation	345	
9	8.3230	61.04	18.50	79.54	80.00	-0.46	Complied	Z Orientation	345	
<b>Tested by:</b>	Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009										
<b>Example:</b>										
<b>Freq:</b>	Measured Level + (Antenna + Cable Correction Factor) = Final Peak									
	8.317: 56.22 + 18.50 + 74.72									
	Average limit = 100µV/m @ 30m									
	Average Limit = 20*log(100µV) = 40dBµV/m @ 30m									
	For 10m measurement the average limit was adjusted = 40log(10/30) = 20dB									
	Average limit = 60dBµV/m@10m									
	Peak Limit = Average Limit + 20dB = 60dBµV/m + 20dB = 80dBµV/m									

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**Evolve P10:**

<b>Fundamental Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR FCC Part 15.223			<b>PRESCAN or FINAL:</b>	Final	<b>Date:</b>	3/24/2008			
<b>Device Tested:</b>	Checkpoint - Evolve P10			<b>Distance:</b>	10m	<b>File .xls</b>	08032403 Fundamental P10.xls			
<b>Mode:</b>	8.2 Tx & 9.0 Tx Band									
<b>Modifications:</b>	Ferrite P/N 284760 on each end of Sync Cable with 4 turns									
	Measured Level									
Meas #	Freq (MHz)	Measured Peak (dBµV/m)	Antenna + Cable Correction Factor	Final Peak (dBµV/m)	Peak Limit	Peak π	Result	Orientation (X,Y,Z)	Angle (degrees)	Comment
RBW = 300kHz VBW=300kHz (FCC Settings)										
9.0 Tx Band (31 Tx)										
1	8.1020	51.54	18.50	70.04	80.00	-9.96	Complied	X Orientation	345	
2	9.3310	57.79	18.50	76.29	80.00	-3.71	Complied	X Orientation	345	
3	8.0500	53.62	18.50	72.12	80.00	-7.88	Complied	Y Orientation	358	
4	9.3310	56.74	18.50	75.24	80.00	-4.76	Complied	Y Orientation	358	
5	8.0630	58.18	18.50	76.68	80.00	-3.32	Complied	Z Orientation	358	
6	9.3500	52.32	18.50	70.82	80.00	-9.18	Complied	Z Orientation	354	
RBW = 300kHz VBW=300kHz (FCC Settings)										
8.2 Tx Band (31Tx)										
7	8.1090	51.94	18.50	70.44	80.00	-9.56	Complied	X Orientation	345	
8	9.6000	43.52	18.50	62.02	80.00	-17.98	Complied	X Orientation	345	
9	8.0900	57.62	18.50	76.12	80.00	-3.88	Complied	Y Orientation	345	
10	9.5900	49.15	18.50	67.65	80.00	-12.35	Complied	Y Orientation	345	
11	8.1610	60.47	18.50	78.97	80.00	-1.03	Complied	Z Orientation	345	
<b>Tested by:</b>	Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009										
<b>Example:</b>										
<b>Freq:</b>	Measured Level + (Antenna + Cable Correction Factor) = Final Peak									
	8.317: 56.22 + 18.50 + 74.72									
	Average limit = 100µV/m @ 30m									
	Average Limit = 20*log(100µV) = 40dBµV/m @ 30m									
	For 10m measurement the average limit was adjusted = 40log(10/30) = 20dB									
	Average limit = 60dBµV/m@10m									
	Peak Limit = Average Limit + 20dB = 60dBµV/m + 20dB = 80dBµV/m									

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#### 4.1.6 Photos

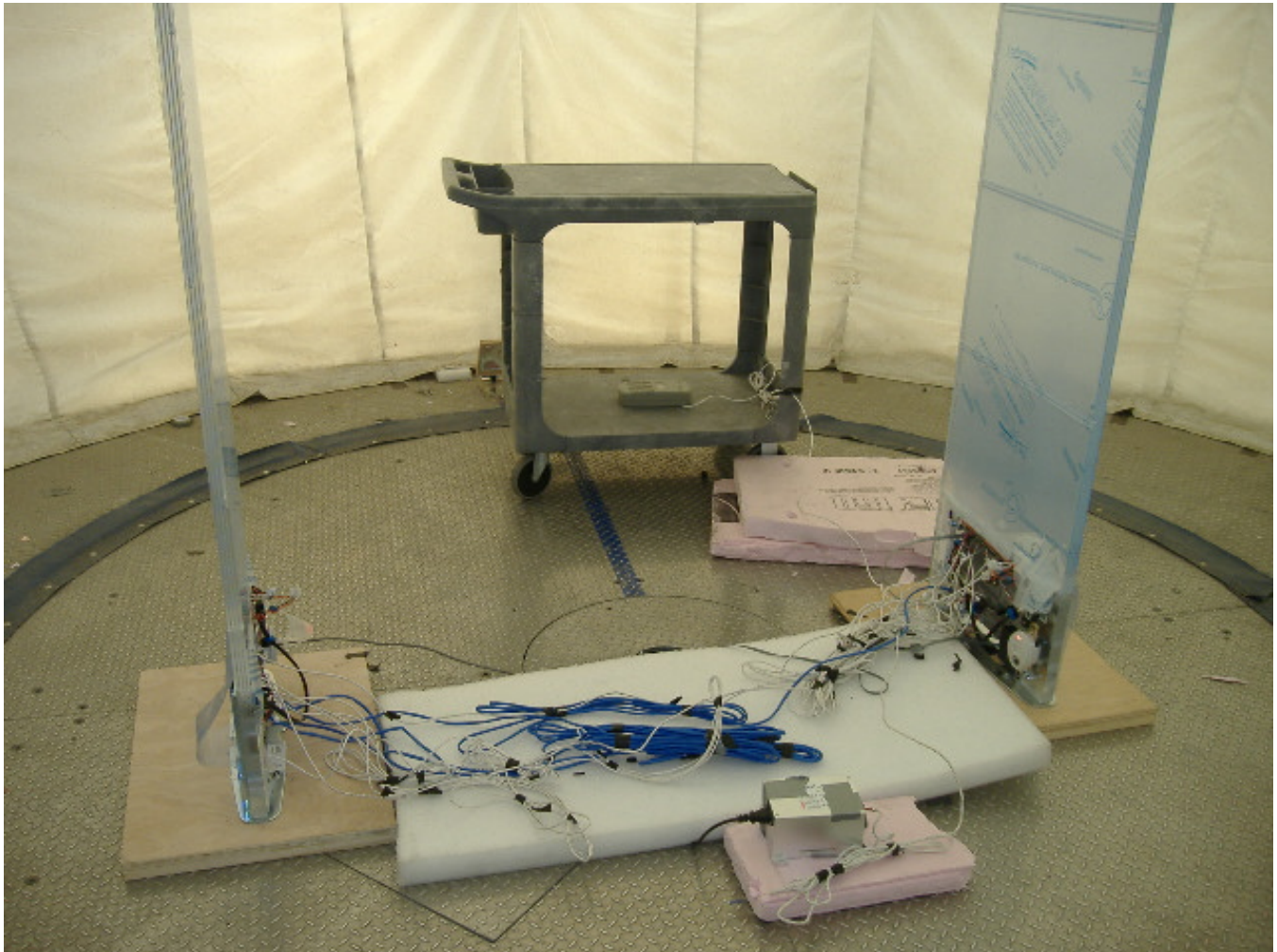


Figure 16 - Fundamental Emissions Test Setup (10m OATS) G10 Configuration 1

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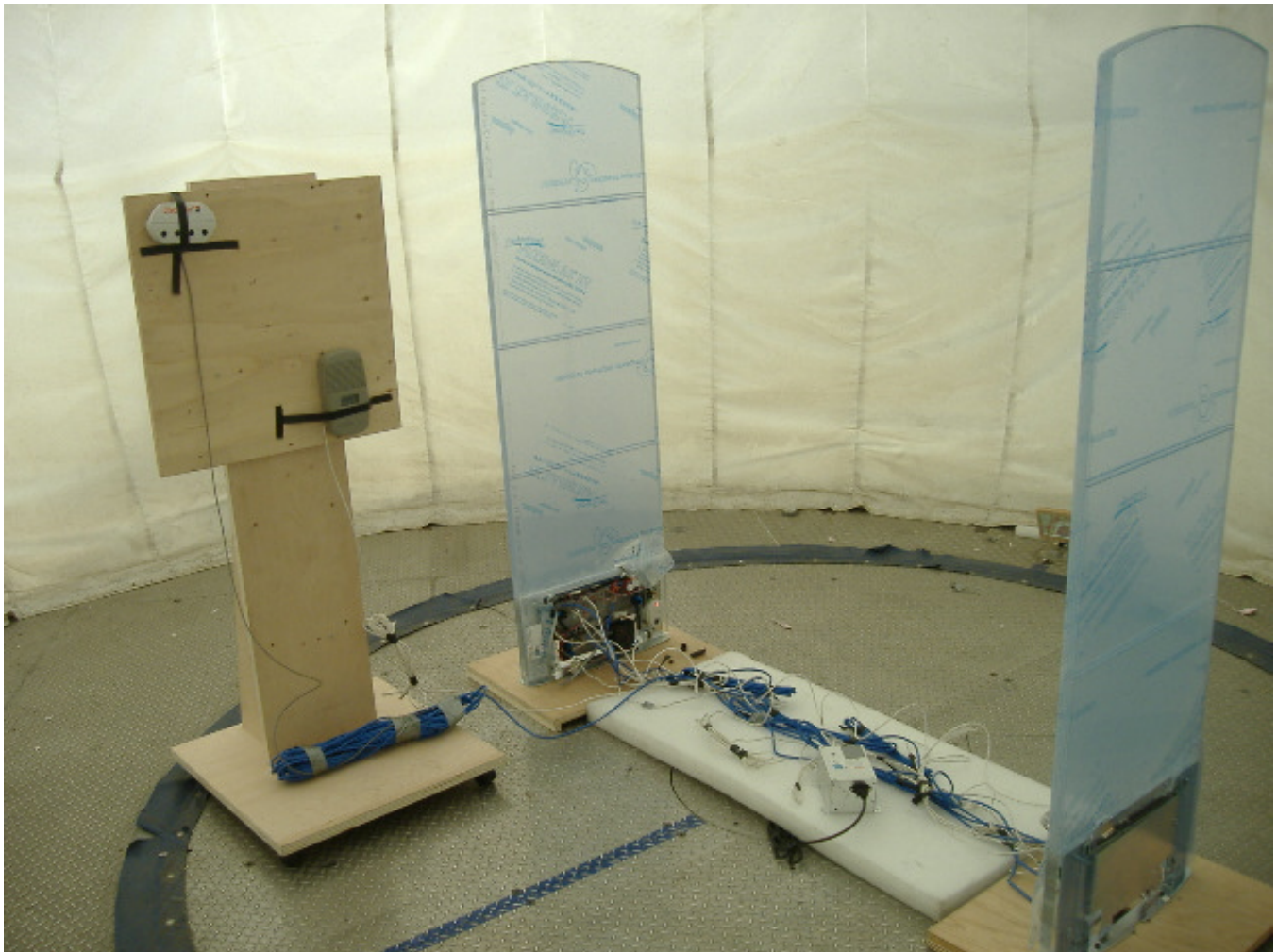


Figure 17 - Fundamental Emissions Test Setup (10m OATS) G10 Configuration 2

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Figure 18 – Fundamental Emissions Test Setup (10m OATS) P10 Configuration 1

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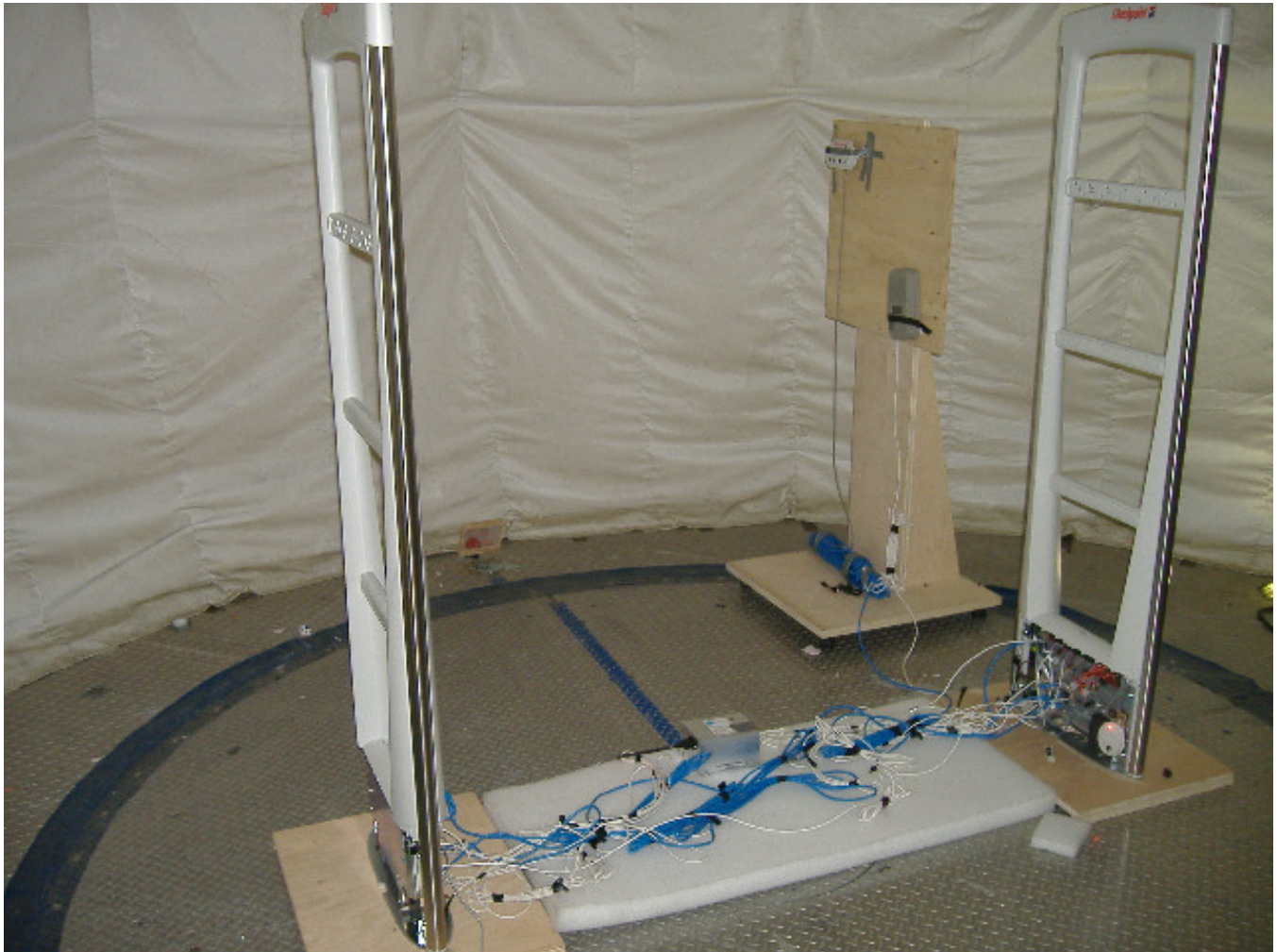


Figure 19 – Fundamental Emissions Test Setup (10m OATS) P10 Configuration 2

The test results contained in this report refer exclusively to the product(s) presented for testing. No liability may be assumed for models or products not referred to herein. This test report may not be published or duplicated in part without permission of the testing body. This test report by itself does not constitute authorization for the use of any TÜV Rheinland test mark. This report must not be used by the applicant to claim product endorsement by TÜV Rheinland, NVLAP or any agency of the United States Government.

## 4.2 Conducted Limits

This test measures the electromagnet levels of spurious signals generated by the EUT on the AC power line that may affect the performance of other near by electronic equipment.

### 4.2.1 Over View of Test

<b>Results</b>	<b>Complies</b> (as tested per this report)				<b>Date</b>	02/29/2008	
<b>Standard</b>	FCC Part 15 Subpart 15.223/RSS-210 Annex A2.3						
<b>Product Model</b>	Evolve P10, Evolve G10			<b>Serial#</b>	741085900U03517018, 741085900U03517019, 7411639C2D13617020, 7411639C2D10158033		
<b>Configuration</b>	See test plan for details						
<b>Test Set-up</b>	Tested in shielded room		EUT placed on table		see test plans for details		
<b>EUT Powered By</b>	120V/60Hz	<b>Temp</b>	22° C	<b>Humidity</b>	45%	<b>Pressure</b>	1004mbar
<b>Frequency Range</b>	150kHz - 30MHz						
<b>Perf. Criteria</b>	Per table in section 207 (Bellow Limit )			<b>Perf. Verification</b>	Readings Under Limit for L1 and L2		
<b>Mod. to EUT</b>	None			<b>Test Performed By</b>	Dieter Baldamus		

### 4.2.2 Test Procedure

Conducted and FCC emissions tests were performed using the procedures of ANSI C63.4 including methods for signal maximizations and EUT configuration. The photos included with the report show the EUT in its maximized configuration.

The frequency range from 150kHz - 30MHz was investigated for conducted emissions.

Conducted Emissions measurements were performed in the shielded room using procedures specified in the test plan and standard.

### 4.2.3 Deviations

There were no deviations from the test methodology listed in the test plan for the conducted emission test.

### 4.2.4 Final Test

All final conducted emissions measurements were below (in compliance) the limits.

**4.2.5 Final Measurement Data**

**Configuration 1, G10 9.0TX Band:**

NOTES:

**Conducted Emissions @ 120V/60Hz  
G10 9.0TX Band Configuration 1  
Line / Neutral**

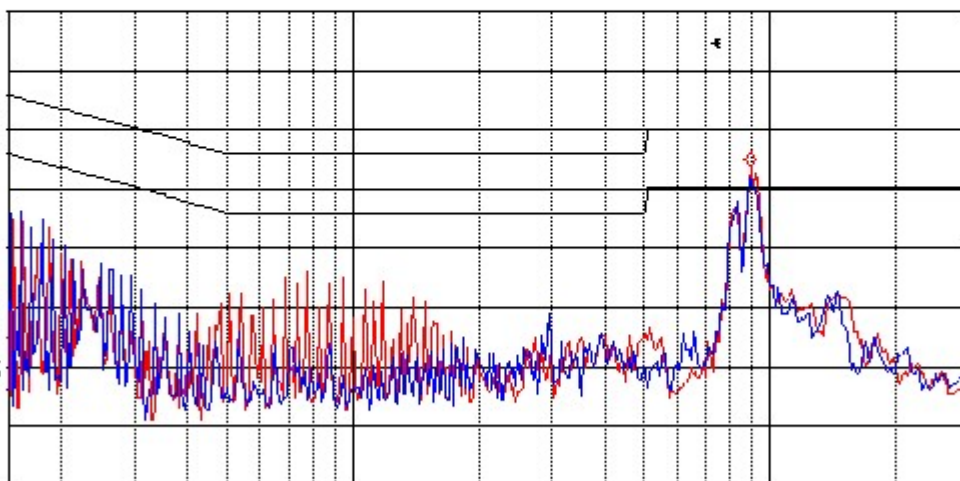
```

(62) 16:41:26 FEB 29, 2006 9.0 TX BAND
MFR: CHECKPOINT MODEL G10 [X]L [X]N 120V/60Hz
MARKER 6.94 MHz ACTV DET: PEAK
53.50 dBµV MEAS DET: PEAK QP AVG
MKR 6.94 MHz
53.50 dBµV
    
```

LOG REF 60.0 dBµV

10  
dB/  
ATTN  
10 dB

VA VB  
SC FC  
ACORR



START 150 kHz STOP 30.00 MHz  
L #1F BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b> 47 CFR 15.209 Spurious Emissions										<b>Date:</b> 2/29/2008		
<b>Device Tested:</b> Checkpoint - Evolve G10 with production LED board & 9.0 Tx Band										<b>File:</b> .xls		08022909 CE 120V.xls
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	Conductor	QP °	QP Result	Avg °	Average Result	Mode
	MHz	dBuV	dBuV	dBuV	dBuV	dBuV		dB		dB		
1	0.1523	48.19	41.34	12.38	65.87	55.87	Line	-24.53	Complied	-43.49	Complied	
2	0.2306	41.74	34.51	27.82	62.43	52.43	Line	-27.92	Complied	-24.61	Complied	
3	2.8638	31.74	28.59	22.95	56.00	46.00	Line	-27.41	Complied	-23.05	Complied	
4	8.3645	50.10	46.08	31.19	60.00	50.00	Line	-13.92	Complied	-18.81	Complied	
5	9.0494	53.25	48.93	34.71	60.00	50.00	Line	-11.07	Complied	-15.29	Complied	
6	14.3079	34.25	32.06	25.00	60.00	50.00	Line	-27.94	Complied	-25.00	Complied	
7	0.1754	48.89	43.38	21.19	64.70	54.70	Neutral	-21.32	Complied	-33.51	Complied	
8	0.2341	44.90	37.21	28.15	62.30	52.30	Neutral	-25.09	Complied	-24.15	Complied	
9	0.7753	35.52	27.31	20.17	56.00	46.00	Neutral	-28.69	Complied	-25.83	Complied	
10	1.1936	35.02	26.64	22.88	56.00	46.00	Neutral	-29.36	Complied	-23.12	Complied	
11	8.3942	50.33	46.07	32.03	60.00	50.00	Neutral	-13.93	Complied	-17.97	Complied	
12	9.3188	59.59	55.59	39.37	60.00	50.00	Neutral	-4.41	Complied	-10.63	Complied	Maximum Emissions
13	14.9040	32.73	30.50	24.59	60.00	50.00	Neutral	-29.50	Complied	-25.41	Complied	
Tested by: Dieter Baldamus												
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												

CE22\_B.xls Revised 21OCT2005

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**Configuration 1, G10 8.2TX Band:**

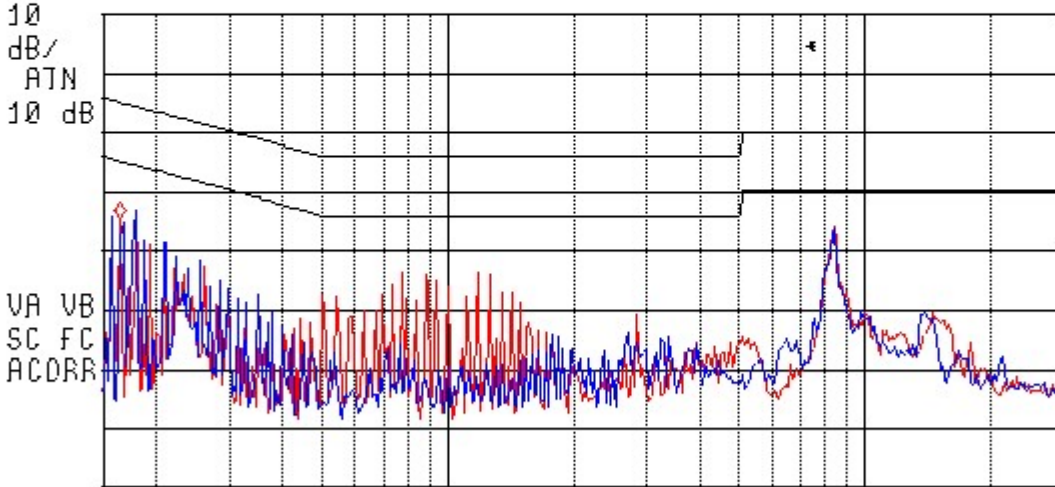
NOTES:

**Conducted Emissions @ 120V/60Hz  
G10 8.2TX Band Configuration 1  
Line / Neutral**

```

(2) 17:50:28 FEB 29, 2008
MFR: CHECKPOINT MODEL G10 [X]L [X]N 120V/60Hz
MARKER                                ACTV DET: PEAK
170 kHz                               MEAS DET: PEAK QP AVG
45.38 dBµV                            MKR 170 kHz
                                        45.38 dBµV
  
```

LOG REF 60.0 dBµV



```

START 150 kHz                                STOP 30.00 MHz
L #JF BW 9.0 kHz                            AVG BW 30 kHz
SWP 2.49 sec
  
```

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b> 47 CFR 15.209 Spurious Emissions										<b>Date:</b> 2/29/2008		
<b>Device Tested:</b> Checkpoint - Evolve G10 with production LED board										<b>File:</b> .xls 08022908 CE 120V.xls		
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	Conductor	QP °	QP Result	Avg °	Average Result	Mode
	MHz	dBuV	dBuV	dBuV	dBuV	dBuV		dB		dB		
1	0.1549	47.82	40.79	11.88	65.73	55.73	Line	-24.94	Complied	-43.85	Complied	
2	0.2312	41.57	33.10	28.77	62.41	52.41	Line	-29.31	Complied	-23.64	Complied	
3	0.7183	38.65	30.41	21.33	56.00	46.00	Line	-25.59	Complied	-24.67	Complied	
4	1.8505	27.78	24.64	22.59	56.00	46.00	Line	-31.36	Complied	-23.41	Complied	
5	0.1556	48.05	41.32	12.27	65.70	55.70	Line	-24.38	Complied	-43.43	Complied	
6	8.5181	46.42	43.18	29.94	60.00	50.00	Line	-16.82	Complied	-20.06	Complied	
7	0.1649	46.73	39.47	11.32	65.22	55.22	Neutral	-25.75	Complied	-43.90	Complied	
8	0.2298	41.22	33.45	27.40	62.46	52.46	Neutral	-29.01	Complied	-25.06	Complied	
9	0.5164	34.48	26.30	6.17	56.00	46.00	Neutral	-29.70	Complied	-39.83	Complied	
10	0.7721	40.34	31.27	19.43	56.00	46.00	Neutral	-24.73	Complied	-26.57	Complied	
11	1.2223	32.80	24.93	6.80	56.00	46.00	Neutral	-31.07	Complied	-39.20	Complied	
12	1.3737	34.72	26.05	21.81	56.00	46.00	Neutral	-29.95	Complied	-24.19	Complied	
13	8.4557	47.70	44.64	33.50	60.00	50.00	Neutral	-15.36	Complied	-16.50	Complied	Maximum Emissions
14	14.2463	30.11	27.04	17.90	60.00	50.00	Neutral	-32.96	Complied	-32.10	Complied	
Tested by: Dieter Baldamus												
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												
CE22_B.xls Revised 21OCT2005												

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**Configuration 1, P10 9.0TX Band:**

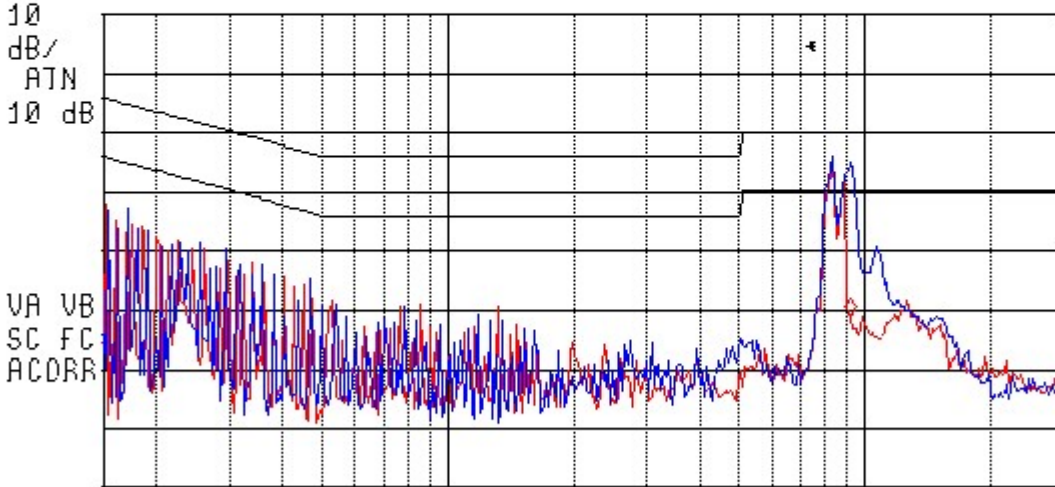
NOTES:

**Conducted Emissions @ 120V/60Hz  
P10 9.0TX Band Configuration 1  
Line / Neutral**

```

(2) 19:42:58 FEB 29, 2008
MFR: CHECKPOINT MODEL P10 [X]L [X]N 120V/60Hz
MARKER 9.20 MHz ACTV DET: PEAK
28.78 dBµV MEAS DET: PEAK QP AVG
MKR 9.20 MHz
28.78 dBµV
    
```

LOG REF 80.0 dBµV



```

START 150 kHz STOP 30.00 MHz
#JF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec
    
```

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b> 47 CFR 15.207 Conducted Emissions										<b>Date:</b> 2/29/2008		
<b>Device Tested:</b> Checkpoint - Evolve P10 9.0 Tx Band										<b>File:</b> .xls 08022910 CE 120V.xls		
Signal Num	Freq MHz	Peak Amp dBuV	QP Amp dBuV	Avg Amp dBuV	QP Limit dBuV	Avg Limit dBuV	Conductor	QP $\cup$ dB	QP Result	Avg $\cup$ dB	Average Result	Mode
1	0.1794	48.39	40.48	26.89	64.52	54.52	Line	-24.04	Complied	-27.63	Complied	
2	0.2390	43.42	35.64	24.20	62.13	52.13	Line	-26.49	Complied	-27.93	Complied	
3	1.2302	31.37	23.02	6.10	56.00	46.00	Line	-32.98	Complied	-39.90	Complied	
4	8.3491	55.09	51.06	35.67	60.00	50.00	Line	-8.94	Complied	-14.33	Complied	Maximum Emissions
5	11.6895	36.23	32.70	28.09	60.00	50.00	Neutral	-27.30	Complied	-21.91	Complied	
6	0.1776	46.34	38.18	24.83	64.60	54.60	Neutral	-26.42	Complied	-29.77	Complied	
7	0.2145	40.56	33.56	14.75	63.03	53.03	Neutral	-29.47	Complied	-38.28	Complied	
8	0.3581	35.11	28.38	24.36	58.77	48.77	Neutral	-30.39	Complied	-24.41	Complied	
9	8.3484	54.17	50.19	34.66	60.00	50.00	Neutral	-9.81	Complied	-15.34	Complied	
Tested by: Dieter Baldamus												
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												
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**Configuration 1, P10 8.2TX Band:**

NOTES:

**Conducted Emissions @ 120V/60Hz  
P10 8.2TX Band Configuration 1**  
**Line / Neutral**

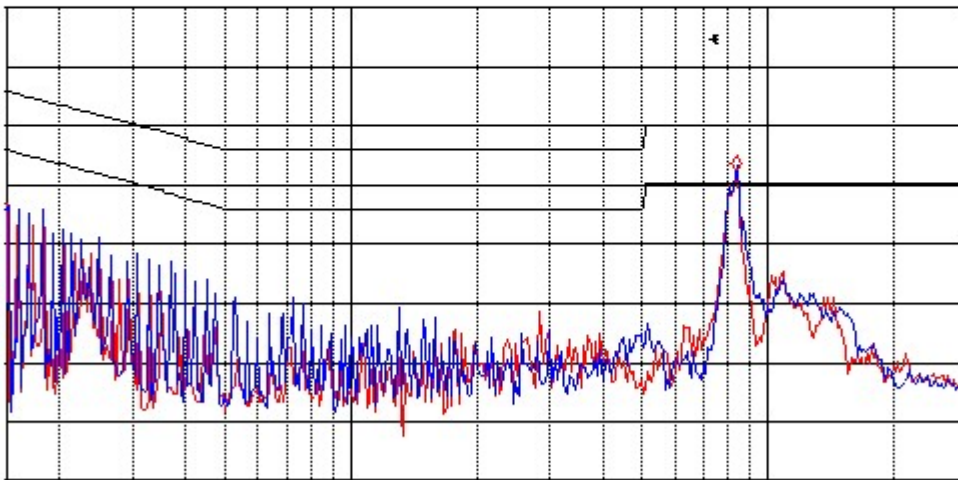
```

(02) 19:59:37 FEB 29, 2008 8.2 TX BAND
MFR: CHECKPOINT MODEL P10 [X]L [X]N 120V/60Hz
MARKER ACTV DET: PEAK
8.43 MHz MEAS DET: PEAK QP AVG
52.26 dBµV MKR 8.43 MHz
52.26 dBµV
  
```

LOG REF 60.0 dBµV

10  
dB/  
ATTN  
10 dB

VA VB  
SC FC  
ACORR



```

START 150 kHz STOP 30.00 MHz
L #JF BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec
  
```

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b> 47 CFR 15.209 Spurious Emissions										<b>Date:</b> 2/29/2008		
<b>Device Tested:</b> Checkpoint - Evolve P10 8.2 Tx Band										<b>File:</b> .xls 08022911 CE 120V.xls		
Signal Num	Freq MHz	Peak Amp dBuV	QP Amp dBuV	Avg Amp dBuV	QP Limit dBuV	Avg Limit dBuV	Conductor	QP dB	QP Result	Avg dB	Average Result	Mode
1	0.1805	46.18	37.78	24.36	64.52	54.52	Line	-26.74	Complied	-30.16	Complied	
2	0.2956	36.21	28.94	20.91	62.13	52.13	Line	-33.19	Complied	-31.22	Complied	
3	0.7140	25.66	22.42	19.58	56.00	46.00	Line	-33.58	Complied	-26.42	Complied	
4	8.4691	54.78	50.95	38.79	60.00	50.00	Line	-9.05	Complied	-11.21	Complied	
5	13.9525	33.61	31.63	25.22	60.00	50.00	Neutral	-28.37	Complied	-24.78	Complied	
6	0.1775	45.48	37.42	22.21	64.60	54.60	Neutral	-27.18	Complied	-32.39	Complied	
7	0.2313	41.00	32.71	28.85	63.03	53.03	Neutral	-30.32	Complied	-24.18	Complied	
8	8.4689	56.22	52.26	40.24	58.77	48.77	Neutral	-6.51	Complied	-8.53	Complied	Maximum Emissions
9	10.3119	37.99	32.03	24.84	60.00	50.00	Neutral	-27.97	Complied	-25.16	Complied	
Tested by: Dieter Baldamus												
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												
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**Configuration 2 Evolve G10 at 9.0Tx Band:**

NOTES:

**Conducted Emissions @ 120V/60Hz  
G10 9.0TX Band Configuration 2  
Line / Neutral**

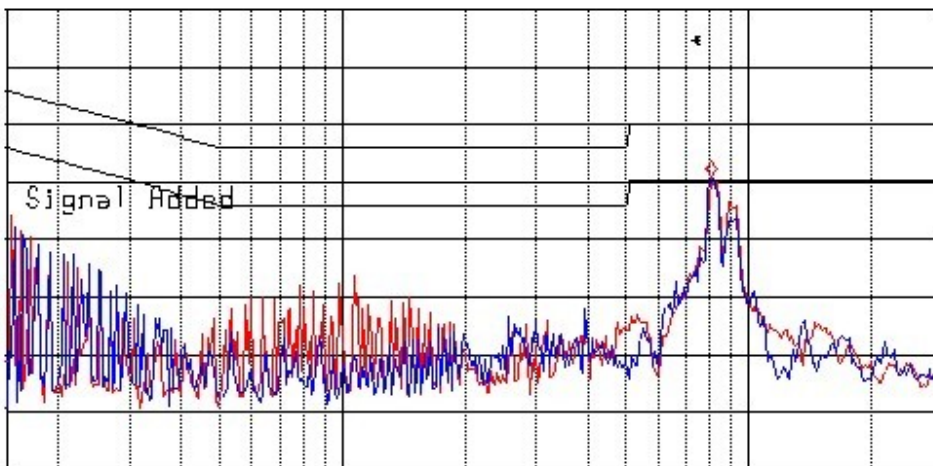
```

(2) 20:16:39 MAR 26, 2006 120V/60Hz
CHECKPOINT MODEL: EVOLVE G10 9.0 TX BAND L[X N[X]
MARKER                               ACTV DET: PEAK
8.06 MHz                             MEAS DET: PEAK QP AVG
50.77 dBµV                            MKR 8.06 MHz
                                       50.77 dBµV
  
```

LOG REF 60.0 dBµV

10  
dB/  
ATN  
10 dB

VA VB  
SC FC  
ACORR



START 150 kHz STOP 30.00 MHz  
L #1F BW 9.0 kHz AVG BW 30 kHz SWP 2.49 sec

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b>	FCC Part 15.207 (Class B)										<b>Date:</b>	3/27/2008
<b>Device Tested:</b>	Checkpoint - Evolve G10										<b>File:</b>	.xls 08032701 CE G10 8.2Tx 120V.xls
<b>Mode:</b>	8.2 TX Band (31Tx)											
	Ferrite P/N 284760 on each end of Sync Cable with 4 turns											
<b>PS Model:</b>	GS599 ES-R @ 120V/50Hz											
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	Conductor	QP ÷	QP Result	Avg ÷	Average Result	Mode
	MHz	dBµV	dBµV	dBµV	dBµV	dBµV		dB		dB		
1	0.1821	46.03	37.65	23.60	64.39	54.39	Line	-26.74	Complied	-30.79	Complied	
2	0.4202	36.60	26.75	14.41	57.44	47.44	Line	-30.69	Complied	-33.03	Complied	
3	2.9223	26.33	22.81	13.94	56.00	46.00	Line	-33.19	Complied	-32.06	Complied	
4	7.9212	36.73	36.50	25.61	60.00	50.00	Line	-23.50	Complied	-24.39	Complied	
5	0.1513	48.06	40.19	10.69	65.93	55.93	Neutral	-25.74	Complied	-45.24	Complied	
6	0.2614	40.55	33.16	5.97	61.39	51.39	Neutral	-28.23	Complied	-45.42	Complied	
7	1.3955	29.25	21.77	4.81	56.00	46.00	Neutral	-34.23	Complied	-41.19	Complied	
8	8.3908	61.37	56.72	46.98	60.00	50.00	Neutral	-3.28	Complied	-3.02	Complied	Maximum Emissions
<b>Tested by:</b>	Dieter Baldamus											
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												
												CE22_Built Revised 21OCT2005

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**Configuration 2 Evolve G10 @ 8.2 TX Band:**

NOTES:

**Conducted Emissions @ 120V/60Hz  
G10 8.2Tx Band Configuration 2  
Line / Neutral**

```

(32) 12:10:49 MAR 27, 2008 120V/60Hz PS-GS599 ES-R
CHECKPOINT MODEL: EVOLVE G10 8.2 TX BAND L[X] N[X]
MARKER 7.93 MHz 58.23 dBµV
ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 7.93 MHz
58.23 dBµV
  
```

LOG REF 60.0 dBµV

10

dB/

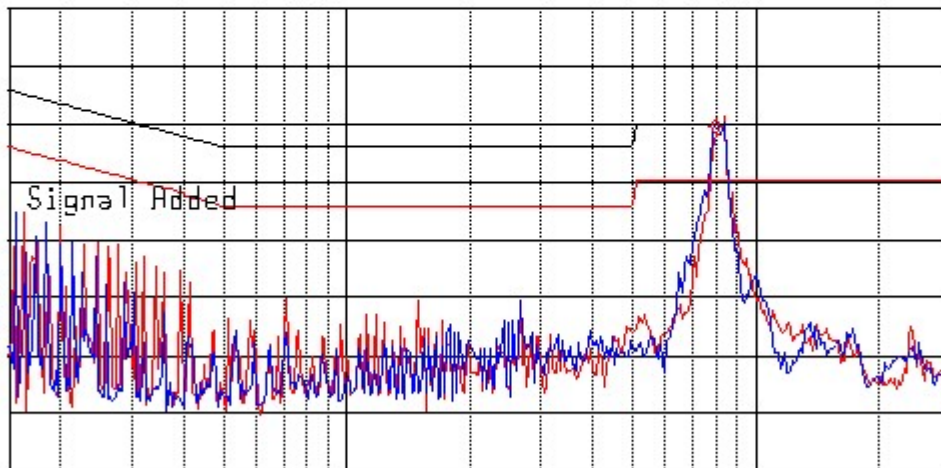
ATN

10 dB

VA VB

SC FC

ACDRR



START 150 kHz

#1F BW 9.0 kHz

AUG BW 30 kHz

STOP 30.00 MHz

SWP 2.49 sec

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<b>Conducted Emissions Measurements</b>													
<b>Standard:</b>		EN55022:1998, Class B/FCC Part 15.107 (a)								<b>Date:</b>		3/26/2008	
<b>Device Tested:</b>		Checkpoint - Evolve G10								<b>File:</b> .xls		08032609 CE G10 9.0TX Band 120V.xls	
<b>Mode:</b>		9.0 Tx Band (31TX)											
<b>Modifications:</b>		LED with no Ferrites											
		Ferrite P/N 284760 on each end of Sync Cable with 4 turns											
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	Conductor	QP ÷	QP Result	Avg ÷	Average Result	Mode	
	MHz	dBuV	dBuV	dBuV	dBuV	dBuV		dB		dB			
1	0.1798	59.65	35.99	22.59	64.49	54.49	Line	-28.50	Complied	-31.90	Complied		
2	0.2378	38.09	30.91	18.66	62.17	52.17	Line	-31.26	Complied	-33.51	Complied		
3	8.2564	49.98	45.63	33.56	60.00	50.00	Line	-14.37	Complied	-16.44	Complied		
4	9.2970	45.38	41.51	25.69	60.00	50.00	Line	-18.49	Complied	-24.31	Complied		
5	0.1805	47.84	42.33	28.14	64.46	54.46	Neutral	-22.13	Complied	-26.32	Complied		
6	0.9551	36.16	28.90	22.85	56.00	46.00	Neutral	-27.10	Complied	-23.15	Complied		
7	8.3039	53.60	49.39	36.55	60.00	50.00	Neutral	-10.61	Complied	-13.45	Complied	Maximum Emissions	
8	9.2813	48.99	45.17	29.99	60.00	50.00	Neutral	-14.83	Complied	-20.01	Complied		
<b>Tested by:</b>		Dieter Baldamus											
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009													

CE22\_B.xls Revised 21OCT2005

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**Configuration 2 Evolve P10 @ 9.0 TX Band:**

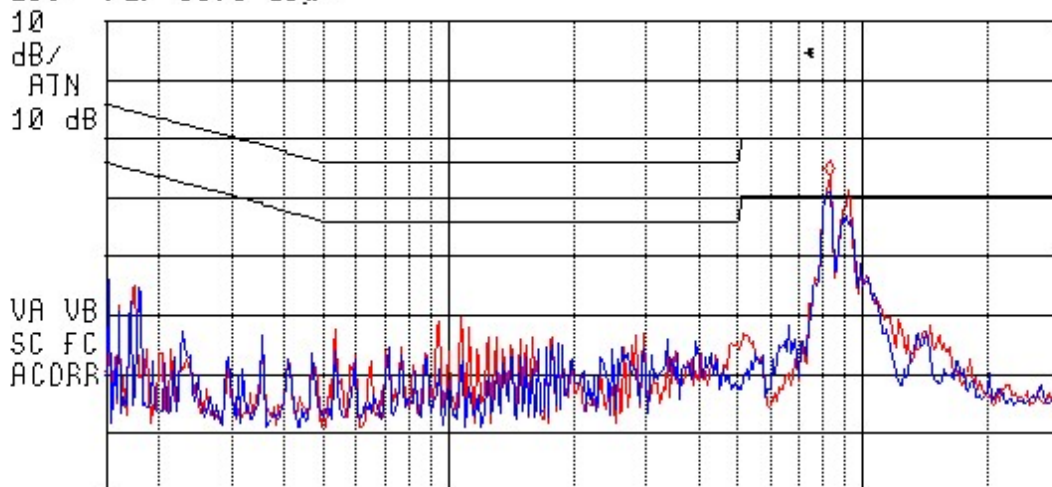
NOTES:

**Conducted Emissions @ 120V/60Hz  
P10 9.0Tx Band Configuration 2  
Line / Neutral**

```

(02) 19:36:57 MAR 26, 2006 120V/60Hz
CHECKPOINT MODEL: EVOLVE P10 9.0 TX BAND L[X] N[X]
MARKER                                ACTV DET: PEAK
6.31 MHz                              MEAS DET: PEAK QP AVG
53.56 dBµV                             MKR 6.31 MHz
                                         53.56 dBµV
  
```

LOG REF 60.0 dBµV



```

START 150 kHz                               STOP 30.00 MHz
L #JF BW 9.0 kHz                            AVG BW 30 kHz
SWP 2.49 sec
  
```

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b>	EN55022:1998, Class B/FCC Part 15.107 (a)										<b>Date:</b>	3/26/2008
<b>Device Tested:</b>	Checkpoint - Evolve P10										<b>File:</b>	.xls 08032608 P10 9.0TX Band 120V.xls
<b>Mode:</b>	9.0 Tx Band (31 Tx)											
<b>Modification:</b>	Ferrite P/N 284760 on each end of Sync Cable with 4 turns											
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	Conductor	QP □	QP Result	Avg □	Average Result	Mode
	MHz	dBuV	dBuV	dBuV	dBuV	dBuV		dB		dB		
1	0.1806	38.68	34.33	21.89	64.46	54.46	Line	-30.13	Complied	-32.57	Complied	
2	1.1322	32.93	29.70	26.63	56.00	46.00	Line	-26.30	Complied	-19.37	Complied	
3	8.3783	54.68	50.37	35.51	60.00	50.00	Line	-9.63	Complied	-14.49	Complied	Maximum Emissions
4	9.3591	53.42	48.75	31.61	60.00	50.00	Line	-11.25	Complied	-18.39	Complied	
5	0.1765	37.02	34.11	21.91	64.65	54.65	Neutral	-30.54	Complied	-32.74	Complied	
6	1.7294	26.69	24.25	22.61	56.00	46.00	Neutral	-31.75	Complied	-23.39	Complied	
7	8.3635	54.03	49.13	33.47	60.00	50.00	Neutral	-10.87	Complied	-16.53	Complied	
8	9.2810	51.10	46.19	30.35	60.00	50.00	Neutral	-13.81	Complied	-19.65	Complied	
Tested by: Dieter Baldamus												
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												
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**Configuration 2 Evolve P10 @ 8.2 TX Band:**

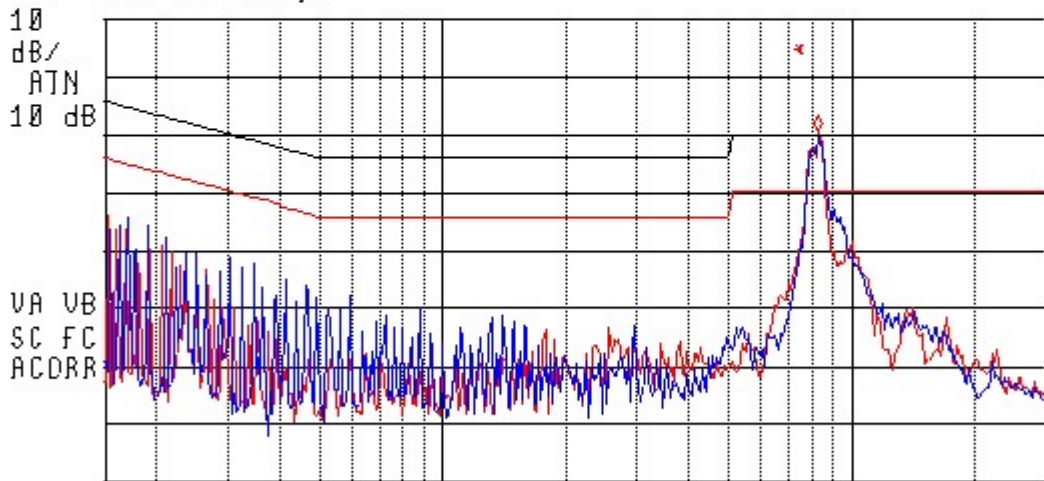
NOTES:

**Conducted Emissions @ 120V/60Hz  
P10 8.2Tx Band Configuration 2  
Line / Neutral**

```

(32) 17:07:26 MAR 27, 2008 120V/60Hz PS-GS599 ES-R
CHECKPOINT MODEL: EVOLVE P10 8.2 TX BAND L[X] N[X]
MARKER                                ACTV DET: PEAK
0.31 MHz                              MEAS DET: PEAK QP AVG
60.75 dBµV                             MKR 0.31 MHz
                                         60.75 dBµV
  
```

LOG REF 60.0 dBµV



```

START 150 kHz                                STOP 30.00 MHz
#1F BW 9.0 kHz                               AVG BW 30 kHz
SWP 2.49 sec
  
```

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<b>Conducted Emissions Measurements</b>												
<b>Standard:</b>	FCC Part 15.207 (Class B)										<b>Date:</b>	3/27/2008
<b>Device Tested:</b>	Checkpoint - Evolve P10										<b>File:</b> .xls	08032707 CE P10 8.2Tx 120V.xls
<b>Mode:</b>	8.2 TX Band (31Tx)											
	Ferrite P/N 284760 on each end of Sync Cable with 4 turns											
<b>PS Model:</b>	GS599 ES-R @ 120V/50Hz											
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	Conductor	QP	QP Result	Avg	Average Result	Mode
	MHz	dBuV	dBuV	dBuV	dBuV	dBuV		dB		dB		
1	0.1786	48.10	40.17	25.34	64.55	54.55	Line	-24.38	Complied	-29.21	Complied	
2	0.2304	43.51	35.93	18.87	62.44	52.44	Line	-26.51	Complied	-33.57	Complied	
3	1.4316	35.28	26.24	20.01	56.00	46.00	Line	-29.76	Complied	-25.99	Complied	
4	8.4528	63.03	59.08	46.71	60.00	50.00	Line	-0.92	Complied	-3.29	Complied	Maximum Emissions
5	0.1501	49.93	42.14	12.99	65.99	55.99	Neutral	-23.85	Complied	-43.00	Complied	
6	0.2441	48.40	34.91	15.80	61.95	51.95	Neutral	-27.04	Complied	-36.15	Complied	
7	1.3118	30.01	23.06	16.50	56.00	46.00	Neutral	-32.94	Complied	-29.50	Complied	
8	8.4689	62.07	57.87	45.74	60.00	50.00	Neutral	-2.13	Complied	-4.26	Complied	
<b>Tested by:</b>	Dieter Baldamus											
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												
												CE22_Exit Revised 21OCT2005

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#### 4.2.6 Photos



Figure 20 –Conducted Emissions Test Setup G10 Configuration 1

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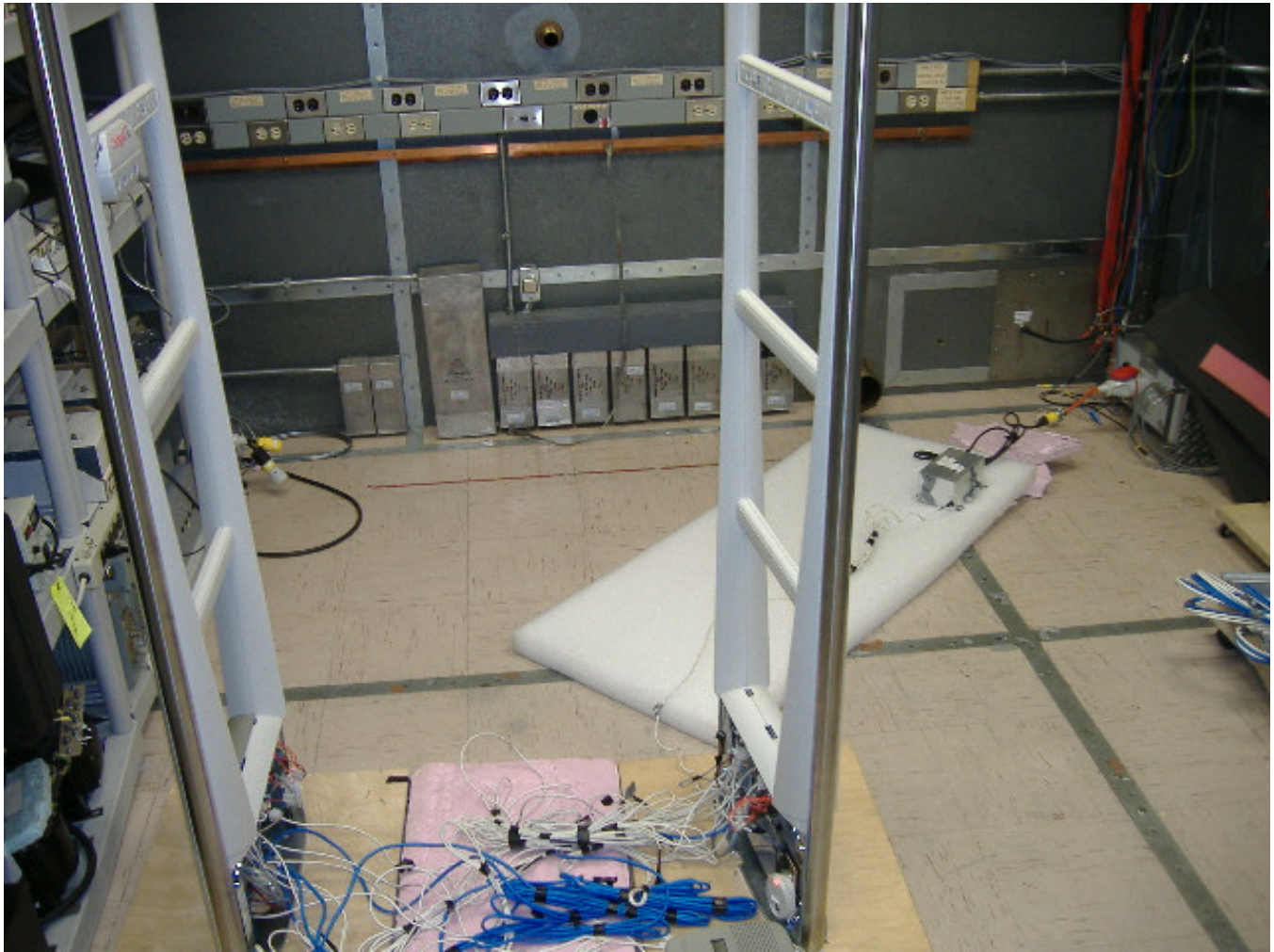


Figure 21 –Conducted Emissions Test Setup P10. Configuration 1

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Figure 22 –Conducted Emissions Test Setup P10. Configuration 2

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### 4.3 Radiated Emissions Limits

This test measures the electromagnetic levels of spurious signals generated by the EUT that radiated from the EUT and may affect the performance of other nearby electronic equipment.

#### 4.3.1 Test Over View

<b>Results</b>	<b>Complies</b> (as tested per this report)			<b>Date</b>	02/29/2008		
<b>Standard</b>	FCC Part 15 Subpart 15.205 and 15.209						
<b>Product Model</b>	Evolve P10, Evolve G10			<b>Serial#</b>	741085900U03517018, 741085900U03517019, 7411639C2D13617020, 7411639C2D10158033		
<b>Configuration</b>	See test plan for details						
<b>Test Set-up</b>	Tested on a 10m O.A.T.S. placed on turn-table, see test plans for details						
<b>EUT Powered By</b>	120V/60Hz	<b>Temp</b>	22° C	<b>Humidity</b>	45%	<b>Pressure</b>	1004mbar
<b>Frequency Range</b>	From Fundamental - 1000MHz						
<b>Perf. Criteria</b>	Below Limit		<b>Perf. Verification</b>	Readings under Limit			
<b>Mod to EUT</b>	None		<b>Test Performed By</b>	Dieter Baldamus			

#### 4.3.2 Test Procedure

Radiated emissions tests were performed using the procedures of ANSI C63.4 including methods for signal maximizations and EUT configuration. The photos included with the report show the EUT in its maximized configuration.

The frequency range from 8MHz to 1000MHz was investigated for radiated emissions.

Radiated emission testing was first performed at a distance of 3 meters in the semi-anechoic chamber in order to identify the specific frequencies for which these measurements will be made. Harmonics and spurious emissions testing <30MHz were performed at 10m distance on the OATS using a magnetic field loop antenna. Harmonics and spurious emissions test >30MHz were performed on the 3 m OATS using a Bilog antenna

#### 4.3.3 Deviations

There were no deviations from the test methodology listed in the test plan for the harmonic current emissions test.

#### 4.3.4 Final Test

All final radiated emissions measurements were below (in compliance) the limits.

### 4.3.5 Final Measurement Data

#### Configuration 1; G10 (8.2Tx) Final <30MHz (Harmonics)

<b>Radiated Emissions Measurements</b>												
<b>Standard:</b> 47 CFR FCC Part 15.223				<b>PRESCAN or FINAL:</b> Final				<b>Date:</b> 2/29/2008				
<b>Device Tested:</b> Checkpoint - Evolve G10				<b>Distance:</b> 10m				<b>File:</b> 08022901 Fundamental G10.xls				
Measured Level												
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Antenna + Cable Correction Factor (included in measured levels)	Quai Peak Limit	Quasi Peak $\xi$	Result	Orientation	Angle (degrees)	Antenna Height (meters)	Comments
RWB = 9kHz, VBW=30kHz												
9.0 Tx Band (Worst Case)												
1	16.6340	30.40	25.32	19.10	19.00	49.54	-24.22	Complied	Z Orientation	245	1.00	second harmonic
2	18.7140	30.50	26.30	20.30	19.30	49.54	-23.24	Complied	Z Orientation	216	1.00	second harmonic
3	24.9510	30.60	24.70	18.60	19.30	49.54	-24.84	Complied	Z Orientation	254	1.00	third harmonic
4	28.0710	32.10	25.80	19.50	19.30	49.54	-23.74	Complied	Z Orientation	254	1.00	third harmonic
Tested by: Dieter Baldamus												
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												

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**Configuration 1; G10 (8.2Tx) Final >30MHz (Harmonics)**

<b>Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR 15.209 Spurious Emissions				<b>PRESCAN or FINAL:</b> Final			<b>Date:</b>	2/29/2008	
<b>Device Tested:</b>	Checkpoint - Evolve G10				<b>Distance:</b> 3.0m			<b>File:</b>	08022906 Final.xls	
Measured Level										
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak 0	Antenna + Cable Correction Factor (included in measured levels)	Result	Polarization	Comment
1	440.0036	31.45	28.85	25.01	46.02	-17.17	7.56	Complied	Vertical	
2	480.0080	36.10	34.35	29.86	46.02	-11.67	16.11	Complied	Vertical	
3	520.0021	37.08	35.45	31.41	46.02	-10.57	16.4	Complied	Vertical	
4	560.0031	30.25	37.38	32.61	46.02	-8.64	17.17	Complied	Vertical	
5	599.9995	45.43	43.19	38.02	46.02	-2.83	17.29	Complied	Vertical	
6	440.0036	35.18	32.53	27.96	46.02	-13.49	18.29	Complied	Vertical	increased to 31 power level
7	480.0250	35.05	33.11	29.36	46.02	-12.91	19.29	Complied	Vertical	increased to 31 power level
8	520.0000	40.52	39.32	35.11	46.02	-6.70	20.29	Complied	Vertical	increased to 31 power level
9	560.0089	42.31	39.39	33.56	46.02	-6.63	21.29	Complied	Vertical	increased to 31 power level
10	600.0167	43.99	42.38	38.21	46.02	-3.64	22.29	Complied	Vertical	increased to 31 power level
11	400.0000	31.43	28.99	23.68	46.02	-17.03	23.29	Complied	Vertical	Original LED Board
12	440.0000	35.60	33.13	28.69	46.02	-12.89	24.29	Complied	Vertical	Original LED Board
13	480.0000	38.58	37.24	35.03	46.02	-8.78	25.29	Complied	Vertical	Original LED Board
14	520.0000	37.58	36.23	32.45	46.02	-9.79	26.29	Complied	Vertical	Original LED Board
15	560.0000	41.14	39.84	36.15	46.02	-6.18	27.29	Complied	Vertical	Original LED Board
16	600.0000	46.18	42.60	37.67	46.02	-3.42	28.29	Complied	Vertical	Original LED Board
17	33.4972	38.18	24.79	14.83	40.00	-15.21	29.29	Complied	Vertical	Original LED Board
18	92.5265	42.11	40.91	37.99	43.52	-2.61	30.29	Complied	Vertical	Original LED Board
19	200.0000	30.84	27.52	20.92	43.52	-16.00	31.29	Complied	Vertical	Original LED Board
20	720.0000	35.29	33.08	29.34	46.02	-12.94	32.29	Complied	Vertical	Original LED Board
<b>Tested by:</b>	Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009 REFCC15B.xlt Revised 10MAR03										

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**Configuration 1; P10 (9.0 and 8.2Tx) Final <30MHz (Harmonics)**

<b>Radiated Emissions Measurements</b>											
<b>Standard:</b>		47 CFR FCC Part 15.223				<b>PRESCAN or FINAL:</b>				Final	<b>Date:</b>
<b>Device Tested:</b>		Checkpoint - Evolve P10				<b>Distance:</b>				10m	<b>File:</b>
Measured Level											
9.0 Tx Band	Freq (MHz)	Peak	Quasi-Peak	Average	Antenna + Cable Correction	Quasi Peak Limit	Quasi Peak ≡	Result	Orientation (X,Y,Z)	Angle (degrees)	Antenna Height (meters)
14	16.6600	36.00	29.60	23.30	19.00	49.54	-19.94	Complied	X Orientation	254	1.00
15	19.6000	35.90	30.01	23.70	19.00	49.54	-19.53	Complied	Z Orientation	250	1.00
16	16.6080	36.60	30.30	24.00	19.00	49.54	-19.24	Complied	Y Orientation	245	1.00
17	19.6100	35.80	30.05	23.50	19.30	49.54	-19.49	Complied	Y Orientation	216	1.00
18	16.1400	36.40	29.00	23.80	19.30	49.54	-20.54	Complied	Z Orientation	245	1.00
19	18.6740	35.00	30.10	24.01	19.30	49.54	-19.44	Complied	X Orientation	255	1.00
20	24.9900	37.30	34.30	23.70	19.30	49.54	-15.24	Complied	Y Orientation	250	1.00
21	29.4150	38.40	32.10	25.40	19.30	49.54	-17.44	Complied	X Orientation	251	1.00
22	24.9120	37.60	34.10	23.40	19.30	49.54	-15.44	Complied	Z Orientation	254	1.00
23	29.4150	38.47	32.05	23.54	19.30	49.54	-17.49	Complied	Y Orientation	254	1.00
24	24.2100	37.40	30.50	23.80	19.30	49.54	-19.04	Complied	X Orientation	256	1.00
25	28.0110	39.90	34.70	24.90	19.30	49.54	-14.84	Complied	Z Orientation	247	1.00
8.2TX Band											
26	16.9580	37.90	31.20	24.80	19.30	49.54	-18.34	Complied	X Orientation	247	1.00
27	15.8920	37.90	31.10	24.90	19.30	49.54	-18.44	Complied	Y Orientation	356	1.00
28	16.9100	39.90	34.60	30.40	19.30	49.54	-14.94	Complied	Z Orientation	355	1.00
29	25.4370	37.70	31.70	25.50	19.30	49.54	-17.84	Complied	X Orientation	354	1.00
30	23.8380	38.80	31.50	25.60	19.30	49.54	-18.04	Complied	Y Orientation	356	1.00
31	25.3650	38.431.5	25.16	38.40	19.30	49.54	-24.38	Complied	Z Orientation	355	1.00
Tested by: Dieter Baldamus											
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (2											

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**Configuration 1; G10 (9.0Tx) Final >30MHz (Harmonics)**

<b>Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR 15.209 Spurious Emissions				<b>PRESCAN or FINAL:</b>		Final	<b>Date:</b>	2/29/2008	
<b>Device Tested:</b>	Checkpoint - Evolve P10				<b>Distance:</b>		3.0m	<b>File:</b>	08022901 Final P10 - 9.0TX Band.xls	
Measured Level										
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak °	Antenna + Cable Correction Factor (included in measured levels)	Result	Polarization	Comment
1	30.6009	41.59	27.46	19.72	40.00	-12.54	17.41	Complied	Vertical	
2	40.4014	43.04	37.85	12.26	40.00	-2.15	11.93	Complied	Vertical	
3	41.6480	43.59	38.38	15.29	40.00	-1.62	11.27	Complied	Vertical	
4	54.4092	44.43	38.82	23.97	40.00	-1.18	6.44	Complied	Vertical	
5	83.2869	39.90	33.48	20.41	40.00	-6.52	7.3	Complied	Vertical	
6	90.8323	51.67	37.41	23.27	43.52	-6.11	8.9	Complied	Vertical	
7	91.6663	45.70	38.24	29.56	43.52	-5.28	9.05	Complied	Vertical	
8	112.9306	37.47	28.50	16.40	43.52	-15.02	11.33	Complied	Vertical	
9	233.1368	38.19	32.85	13.61	46.02	-13.17	10.18	Complied	Vertical	
10	447.5999	40.50	35.28	12.27	46.02	-10.74	16.40	Complied	Horizontal	
11	480.9500	34.38	24.21	8.57	46.02	-21.81	17.17	Complied	Horizontal	
12	690.0773	28.59	21.18	9.35	46.02	-24.84	19.18	Complied	Horizontal	
13	899.1202	34.72	28.10	13.16	46.02	-17.92	20.39	Complied	Horizontal	
Tested by: Dieter Baldamus										
TUV Rheinland of North America, Inc.		12 Commerce Road		Newtown, CT 06470		Tel: (203) 426-0888		Fax: (203) 426-4009		REFCC15B.mt Revised 10MAR03

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**Configuration 2; G10 (9.0Tx & 8.2Tx) Final <30MHz (Harmonics)**

<b>Fundamental Radiated Emissions Measurements</b>										
<b>Standard:</b>		47 CFR FCC Part 15.223			<b>PRESCAN or FINAL:</b>		Final		<b>Date:</b>	3/25/2008
<b>Device Tested:</b>		Checkpoint - Evolve G10			<b>Distance:</b>		10m		<b>File .xls:</b>	08032503 Fundamental G10 Report (FCC)
<b>Mode:</b>		9.0TX Band and 8.2 Tx Band								
<b>Modification:</b>		Tx 28 Passing level,								
		LED Board with NO ferrites								
		Ferrite P/N 284760 on each end of Sync Cable with 4 turns								
Harmonics										
9.0 Tx Band	Freq (MHz)	Measured Peak (dBuV/m)	Quasi-Peak	Average	Antenna + Cable Correction Factor	QuaiPeak Limit	Quasi Peak	Result	Orientation	Comments
7	16.0620	NT	NT	NT	19.00	49.54	NT	NT	X Orientation	
8	18.5960	NT	NT	NT	19.00	49.54	NT	NT	X Orientation	
9	16.6460	37.20	29.90	24.10	19.00	49.54	-19.64	Complied	Y Orientation	Worst Case
10	18.7140	37.30	30.00	24.00	19.30	49.54	-19.54	Complied	Y Orientation	Worst Case
11	16.6600	NT	NT	NT	19.30	49.54	NT	NT	Z Orientation	
12	18.1594	NT	NT	NT	19.30	49.54	NT	NT	Z Orientation	
13	24.0930	37.90	30.30	24.40	19.30	49.54	-19.24	Complied	X Orientation	Worst Case
14	27.8940	37.10	31.10	25.20	19.30	49.54	-18.44	Complied	X Orientation	Worst Case
15	24.9690	NT	NT	NT	19.30	49.54	NT	NT	Y Orientation	
16	28.0710	NT	NT	NT	19.30	49.54	NT	NT	Y Orientation	
17	24.9900	NT	NT	NT	19.30	49.54	NT	NT	Z Orientation	
18	27.2391	NT	NT	NT	19.30	49.54	NT	NT	Z Orientation	
8.2 Tx Band										
19	15.8920	36.30	29.70	23.40	19.30	49.54	-19.84	Complied	X Orientation	
20	15.8400	36.10	30.10	24.10	19.30	49.54	-19.44	Complied	Y Orientation	
21	16.6460	36.20	29.80	23.30	19.30	49.54	-19.74	Complied	Z Orientation	
22	23.8380	36.30	32.20	23.30	19.30	49.54	-17.34	Complied	X Orientation	
23	23.7600	38.10	3.30	24.50	19.30	49.54	-46.24	Complied	Y Orientation	
24	24.9690	36.60	30.20	24.30	19.30	49.54	-19.34	Complied	Z Orientation	
<b>Tested by:</b>		Dieter Baldamus								
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009										

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**Configuration 2; G10 (8.2Tx) Final >30MHz**

<b>Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR 15.209 Spurious Emissions/ETSI EN 300 330 <b>PRESCAN or FINAL:</b> Final						<b>Date:</b>	3/26/2008		
<b>Device Tested:</b>	Checkpoint - Evolve G10						<b>Distance:</b>	3.0m		
<b>Mode:</b>	8.2 TX Band (31Tx)						<b>File:</b>	08032605 RE Final G10 8.2 TX Band.xls		
<b>Modifications:</b>	LED Board with NO Ferrites									
	Ferrite P/N 284760 on each end of Sync Cable with 4 turns									
	Measured Level									
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak $\pm$	Antenna + Cable Correction Factor (included in measured levels)	Result	Polarization	Comment
1	31.0692	40.71	33.20	24.50	40.00	-6.80	17.11	Complied	Vertical	
2	53.9408	48.01	24.15	16.88	40.00	-15.85	6.53	Complied	Vertical	
3	69.9666	34.04	28.22	21.17	40.00	-11.78	5.3	Complied	Vertical	
4	96.9050	40.03	34.06	27.13	43.52	-9.46	9.97	Complied	Vertical	
5	118.0130	25.49	20.75	12.97	43.52	-22.77	11.63	Complied	Vertical	
6	422.5688	26.80	20.50	7.96	46.02	-25.52	16.45	Complied	Vertical	
7	475.5878	36.72	29.97	7.75	46.02	-16.05	17.13	Complied	Horizontal	
8	481.0160	29.52	23.48	7.94	46.02	-22.54	17.17	Complied	Horizontal	
9	482.8960	30.37	23.78	7.13	46.02	-22.24	17.18	Complied	Horizontal	
10	484.9159	37.86	31.28	1.14	46.02	-14.74	17.19	Complied	Horizontal	
11	491.1027	29.19	23.07	8.60	46.02	-22.95	17.24	Complied	Horizontal	
12	517.2917	36.30	31.25	8.75	46.02	-14.77	17.50	Complied	Horizontal	
13	522.1900	33.48	27.62	7.81	46.02	-18.40	17.56	Complied	Horizontal	
14	560.0051	39.33	38.00	35.69	46.02	-8.02	18.57	Complied	Horizontal	
15	720.0166	39.78	38.55	36.27	46.02	-7.47	19.53	Complied	Horizontal	
16	789.2544	32.93	28.21	22.97	46.02	-17.81	19.82	Complied	Horizontal	
<b>Tested by:</b>	Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009										

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**Configuration 2; P10 (9.0Tx & 8.2 Tx) Final <30MHz**

<b>Fundamental Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR FCC Part 15.223			<b>PRESCAN or FINAL:</b>			Final	<b>Date:</b>	3/24/2008	
<b>Device Tested:</b>	Checkpoint - Evolve P10			<b>Distance:</b>			10m	<b>File .xls:</b>	08032403 Fundamental P10.xls	
<b>Mode:</b>	8.2 Tx & 9.0 Tx Band									
<b>Modifications:</b>	Ferrite P/N 284760 on each end of Sync Cable with 4 turns									
Harmonics										
9.0 Tx Band (31Tx)	Freq (MHz)	Measured Peak (dB $\mu$ V/m)	Quasi-Peak	Average	Antenna + Cable Correction Factor	QuaiPeak Limit	Quasi Peak $\pi$	Result	Orientation	Comments
7	16.2040	36.80	30.20	23.10	19.00	49.54	-19.34	Complied	X Orientation	
8	18.6620	38.80	30.20	23.90	19.00	49.54	-19.34	Complied	X Orientation	
9	16.1000	36.20	30.10	24.00	19.00	49.54	-19.44	Complied	Y Orientation	
10	18.6620	37.10	30.40	24.30	19.30	49.54	-19.14	Complied	Y Orientation	
11	16.1260	37.80	30.10	23.10	19.30	49.54	-19.44	Complied	Z Orientation	
12	18.7000	36.50	30.30	23.90	19.30	49.54	-19.24	Complied	Z Orientation	
13	24.3060	36.10	30.40	24.10	19.30	49.54	-19.14	Complied	X Orientation	
14	27.9930	40.20	33.90	28.70	19.30	49.54	-15.64	Complied	X Orientation	
15	24.1500	36.40	30.90	24.30	19.30	49.54	-18.64	Complied	Y Orientation	
16	27.9930	39.00	32.60	25.60	19.30	49.54	-16.94	Complied	Y Orientation	
17	24.1890	37.10	30.50	24.40	19.30	49.54	-19.04	Complied	Z Orientation	
18	28.0500	37.40	31.00	25.50	19.30	49.54	-18.54	Complied	Z Orientation	
8.2 Tx Band (31Tx)										
19	19.2000	36.70	30.20	23.30	19.30	49.54	-19.34	Complied	X Orientation	
20	16.1800	37.10	30.40	24.10	19.30	49.54	-19.14	Complied	Y Orientation	
21	19.1800	37.00	30.50	24.30	19.30	49.54	-19.04	Complied	Z Orientation	
22	28.8000	36.90	30.30	24.20	19.30	49.54	-19.24	Complied	X Orientation	
23	24.2700	37.20	30.70	24.50	19.30	49.54	-18.84	Complied	Y Orientation	
24	28.7700	37.30	31.10	25.00	19.30	49.54	-18.44	Complied	Z Orientation	
<b>Tested by:</b>	Dieter Baldamus									
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009										

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**Configuration 2; P10 (9.0 Tx) Final >30MHz**

<b>Radiated Emissions Measurements</b>									
<b>Standard:</b>	47 CFR 15.209 Spurious Emissions			<b>PRESCAN or FINAL:</b>	Final	<b>Date:</b>	3/26/2008		
<b>Device Tested:</b>	Checkpoint - Evolve P10			<b>Distance:</b>	3.0m	<b>File:</b>	08032607 P10 RE Final 9.0TX Band.xls		
<b>Mode:</b>	9.0 Tx Band (Tx 31)								
<b>Modification:</b>	Ferrite P/N 284760 on each end of Sync Cable with 4 turns								
		Measured Level							
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak ( )	Antenna + Cable Correction Factor (included in measured levels)	Result	Comment
1	56.5440	43.63	36.09	22.26	40.00	-3.91	6.05	Complied	
2	83.2828	43.92	38.15	18.73	40.00	-1.85	7.3	Complied	
3	99.6408	43.27	37.14	30.93	43.52	-6.38	10.44	Complied	
4	130.1455	26.21	20.86	13.70	43.52	-22.66	11.27	Complied	
5	406.2793	28.16	25.30	22.48	46.02	-20.72	16.12	Complied	
6	433.3308	40.73	38.51	36.90	46.02	-7.51	16.46	Complied	
7	456.9606	42.73	36.95	8.57	46.02	-9.07	16.6	Complied	
8	457.8609	39.88	33.86	8.89	46.02	-12.16	16.63	Complied	
9	471.8666	44.76	39.40	10.12	46.02	-6.62	17.04	Complied	
10	522.2187	37.29	32.23	8.11	46.02	-13.79	17.56	Complied	
11	540.9007	35.09	30.15	9.29	46.02	-15.87	18.24	Complied	
12	599.9962	43.88	41.80	38.35	46.02	-4.22	18.54	Complied	
13	671.3968	29.28	23.05	8.28	46.02	-22.97	18.97	Complied	
14	633.3223	34.57	32.45	30.19	46.02	-13.57	18.94	Complied	
15	792.1800	32.26	26.56	9.92	46.02	-19.46	19.82	Complied	
16	839.2458	32.76	23.32	9.27	46.02	-22.70	20.23	Complied	
<b>Tested by:</b>	Dieter Baldamus								
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009									

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**Configuration 2; P10 (8.2 Tx) Final >30MHz**

<b>Radiated Emissions Measurements</b>										
<b>Standard:</b>	47 CFR 15.209 Spurious Emissions			<b>PRESCAN or FINAL:</b>			Final	<b>Date:</b>	3/26/2008	
<b>Device Tested:</b>	Checkpoint - Evolve P10			<b>Distance:</b>			3.0m	<b>File:</b>	08032402 P10 RE Final 8.2TX Band.xls	
<b>Mode:</b>	8.2 Tx Band									
<b>Modifications:</b>	Ferrite P/N 284760 on each end of Sync Cable with 4 turns									
Measured Level										
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak ( )	Antenna + Cable Correction Factor (included in measured levels)	Result	Comment	
1	56.5440	36.54	30.37	17.28	40.00	-9.63	6.05	Complied		
2	83.2862	35.35	30.07	13.00	40.00	-9.93	7.3	Complied		
3	99.7519	26.70	20.85	17.88	43.52	-22.67	10.48	Complied		
4	129.2270	17.77	11.73	3.54	43.52	-31.79	11.31	Complied		
5	433.3430	18.41	16.65	12.16	46.02	-29.37	16.46	Complied		
6	471.7360	7.74	3.49	-0.54	46.02	-42.53	17.04	Complied		
7	470.0022	6.74	3.02	-2.47	46.02	-43.00	17.19	Complied		
8	598.3953	12.84	8.02	1.30	46.02	-38.00	18.55	Complied		
9	638.0205	19.28	12.91	6.67	46.02	-33.11	18.96	Complied		
Tested by: Dieter Baldamus										
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009										

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### 4.3.6 Operation in Restricted Bands

The EUT is a digital swept frequency hopping transmitter. The EUT hops on discrete frequencies. The discrete frequencies that can be transmitted by the EUT are as follows:

Original Emerald frequency tables

/\* Center frequency 8.2MHz +/- 410KHz \*/

Value CT\_8200\_300[] = {8610, 8555, 8500, 8446, 8391, 8337, 8282, 8227, 8173, 8118, 8063, 8009, 7954, 7899, 7845, 7790};

/\* Center frequency 8.6MHz +/- 430KHz \*/

Value CT\_8600\_300[] = {9030, 8973, 8915, 8858, 8801, 8743, 8686, 8629, 8571, 8514, 8457, 8399, 8342, 8285, 8227, 8170};

/\* Center frequency 9.0MHz +/- 450KHz \*/

Value CT\_9000\_300[] = {9450, 9390, 9330, 9270, 9210, 9150, 9090, 9030, 8970, 8910, 8850, 8790, 8730, 8670, 8610, 8550};

/\* Center frequency 9.2MHz +/- 460KHz \*/

Value CT\_9200\_300[] = {9660, 9599, 9537, 9476, 9415, 9353, 9292, 9231, 9169, 9108, 9047, 8985, 8924, 8863, 8801, 8740}; /\* Center frequency 9.5MHz +/- 480KHz \*/ Value CT\_9500\_300[] = {9980, 9916, 9852, 9788, 9724, 9660, 9596, 9532, 9468, 9404, 9340, 9276, 9212, 9148, 9084, 9020};

/\* Mult tag with bins 0-7 center frequency 9.2MHz and bins 8-16 center frequency 8.2MHz each range +/- 300KHz \*/

Value CTMult\_9200\_8200\_300[] = {9500, 9404, 9329, 9243, 9157, 9071, 8986, 8900, 8500, 8414, 8329, 8243, 8157, 8071, 7986, 7900}; Skinny Pulse frequency tables.....

/\* This table is used for mult band (8.2/9.2) skinny pulse, using PW of 4us JRG\_SP \*/

Value CTMult\_sp[] = {9325, 9325, 9325, 9325, 9075, 9075, 9075, 9075, 8325, 8325, 8325, 8325, 8075, 8075, 8075, 8075};

/\* This table is used for 8.2 band skinny pulse, using PW of 4us JRG\_SP \*/ Value CT\_8200\_sp[] = {8450, 8450, 8450, 8450, 8325, 8325, 8325, 8325, 8075, 8075, 8075, 8075, 7950, 7950, 7950, 7950};

The restricted frequency bands (per FCC Part 15 Clause 15.205) in the operating frequency band of the EUT are as follows:

8.291 – 8.294 MHz

8.362 – 8.366 MHz

8.37625 – 8.38675 MHz

8.41425 – 8.41475 MHz

The transmitter is not capable of hopping into, or operating, in the restricted frequency bands and therefore complies with the restriction.

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#### 4.3.7 Photos

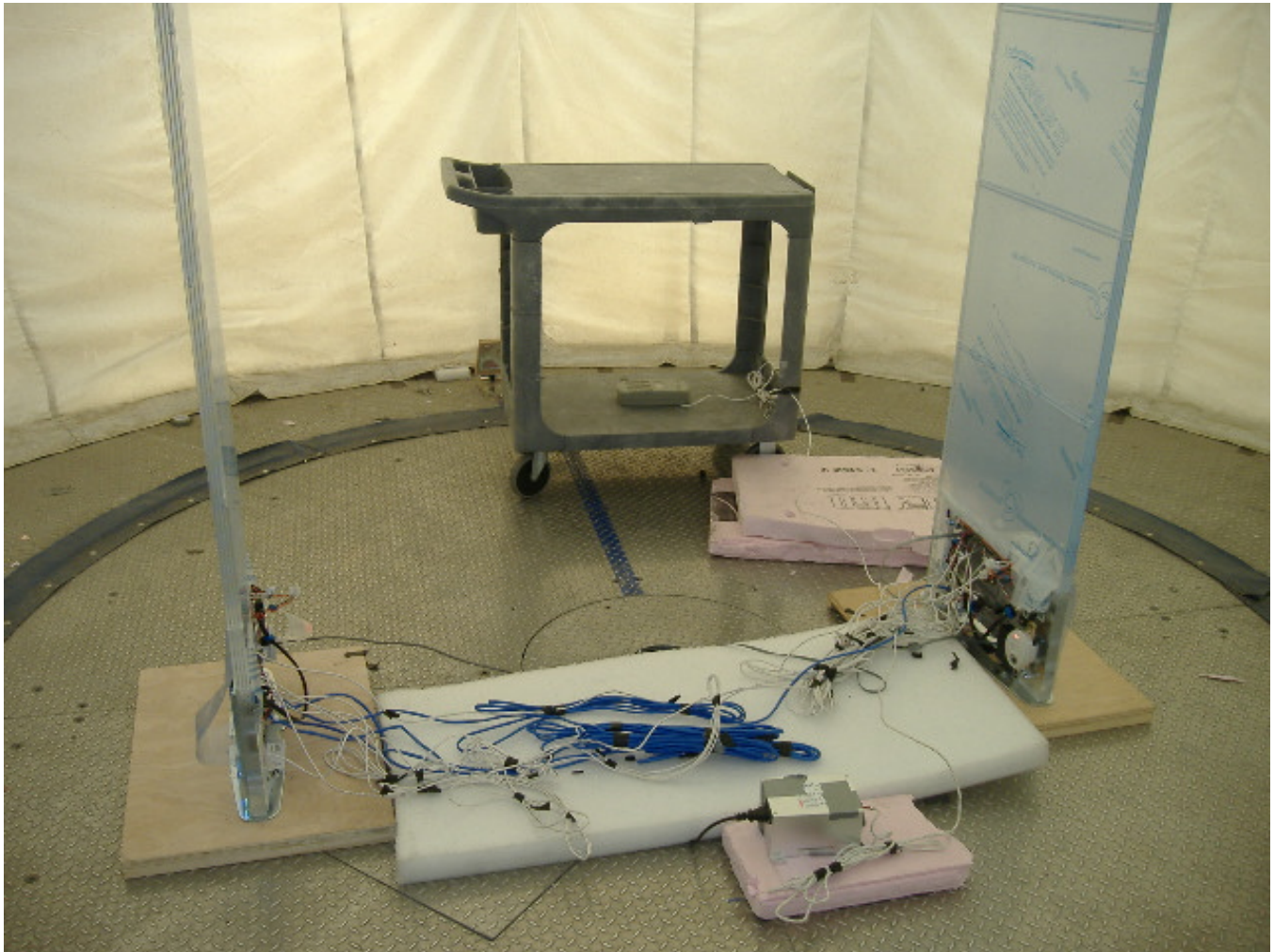


Figure 23 – Radiated Emissions (3m OATS) and Harmonics of Fundamental Emissions Test Setup (10m OATS)  
G10 Configuration 1

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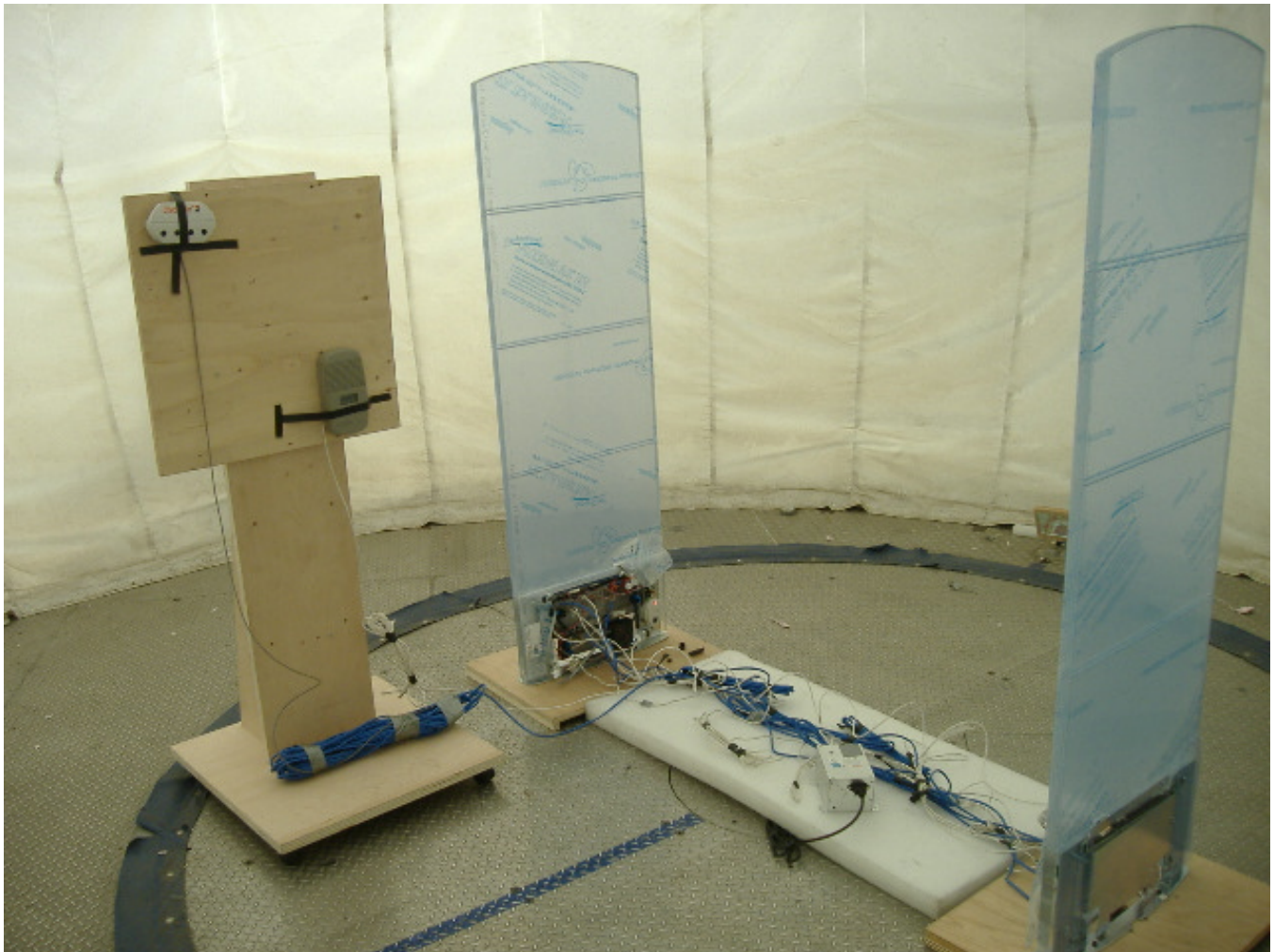


Figure 24 - Radiated Emissions (3m OATS) and Harmonics of Fundamental Emissions Test Setup (10m OATS)  
G10 Configuration 2

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Figure 25 – Radiated Emissions (3m OATS) and Harmonics of Fundamental Emissions Test Setup (10m OATS)  
P10 Configuration 1

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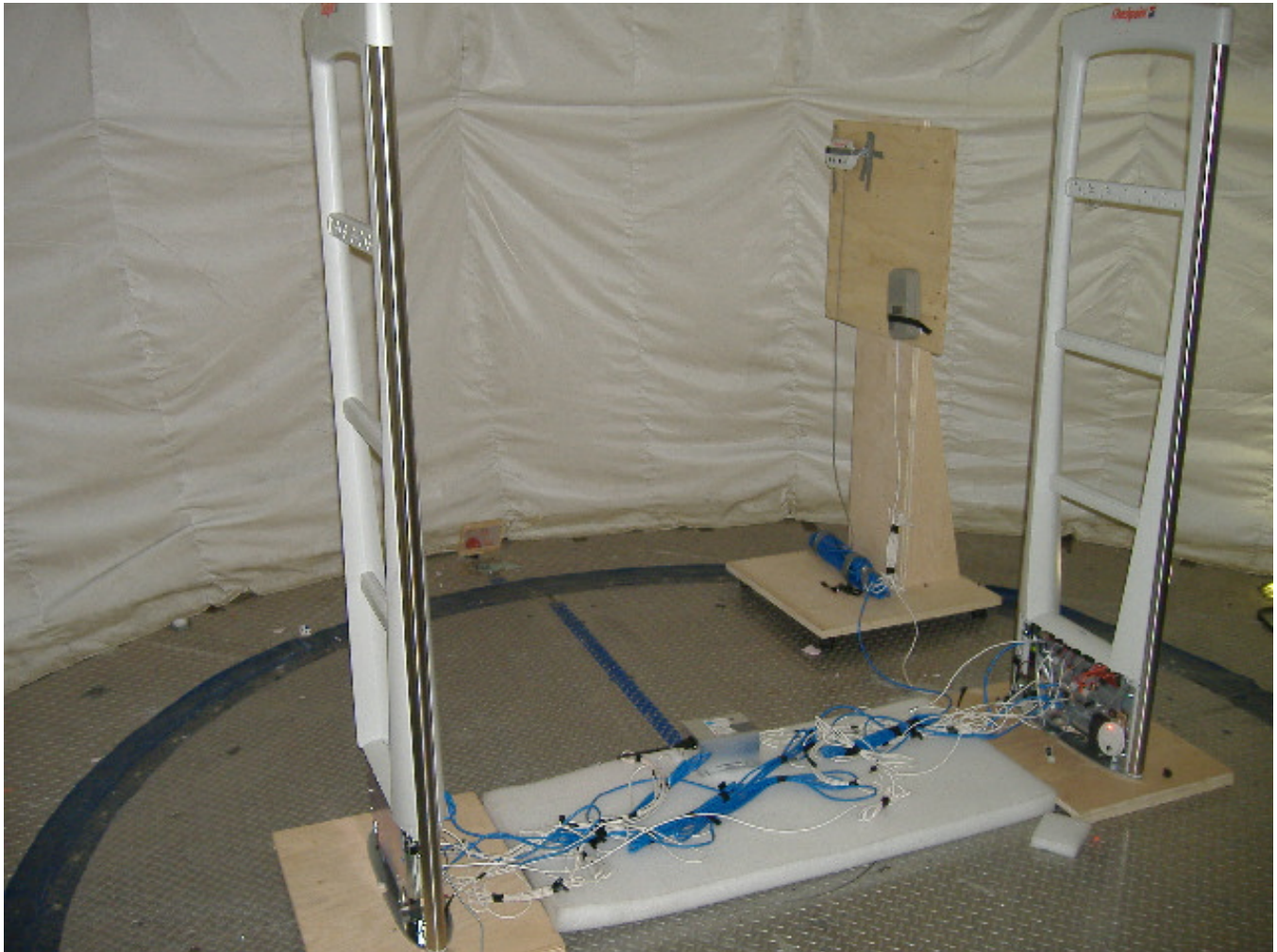


Figure 26 – Radiated Emissions (3m OATS) and Harmonics of Fundamental Emissions Test Setup (10m OATS)  
P10 Configuration 2

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