



Engineering and Testing for EMC and Safety Compliance



Accredited under A2LA Testing Certificate # 2653.01

## **Radiated Test Data**

**for Model:**

**STI Monitor 433.9 MHz**

**for**

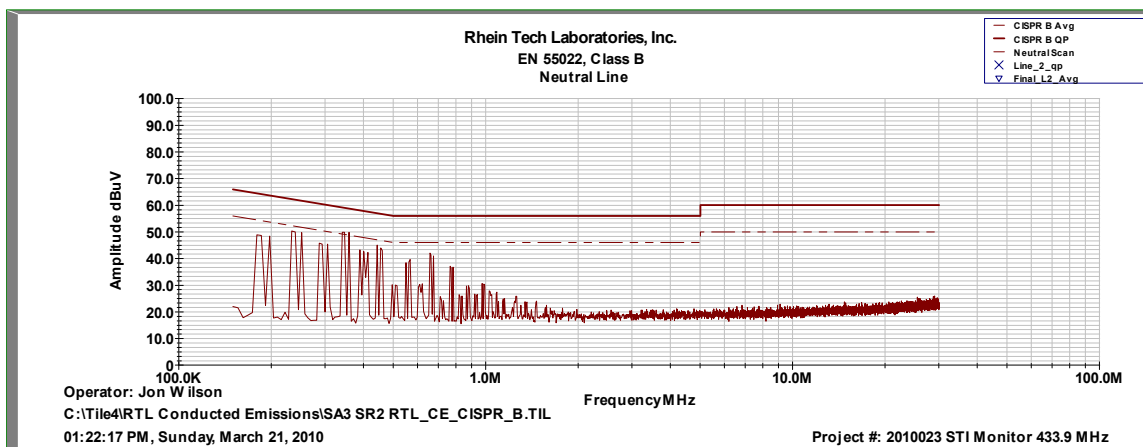
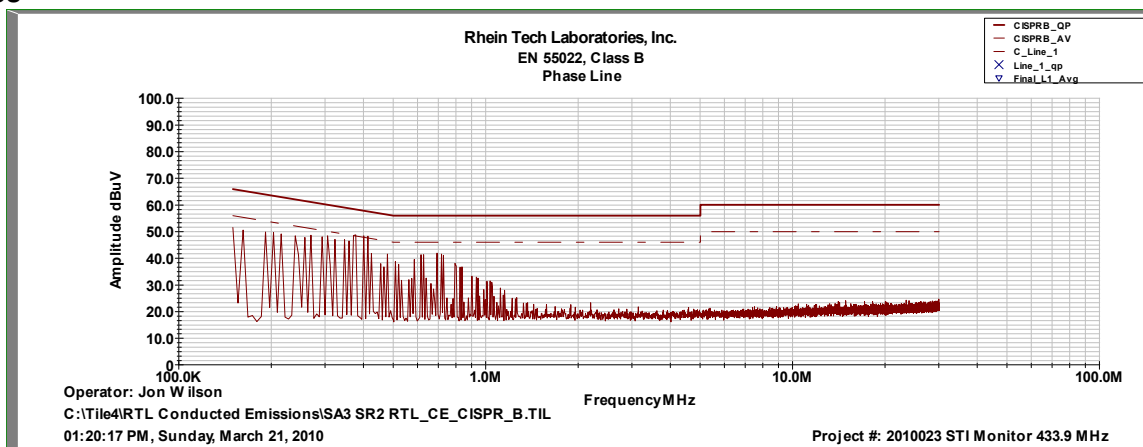
**Resolution Engineering**

**RTL Project Number 2010023**

**Test Engineer: Jon Wilson**

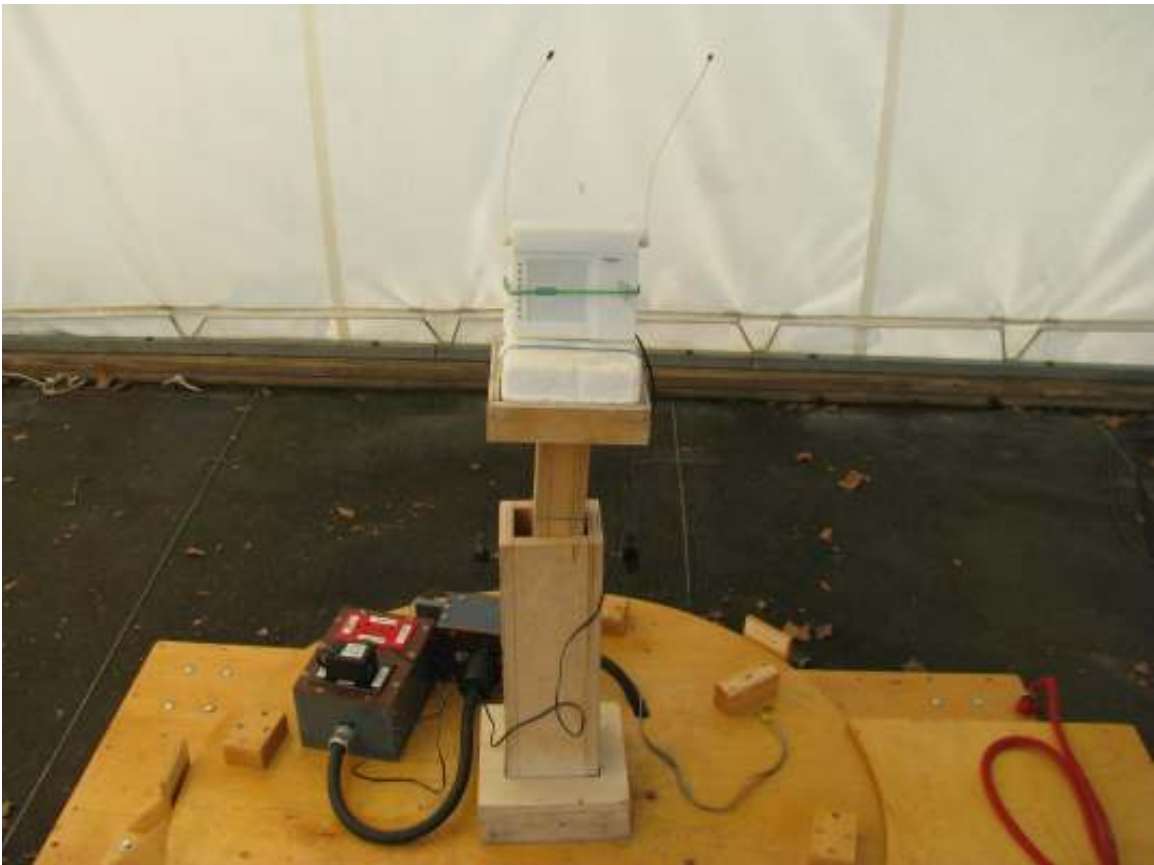
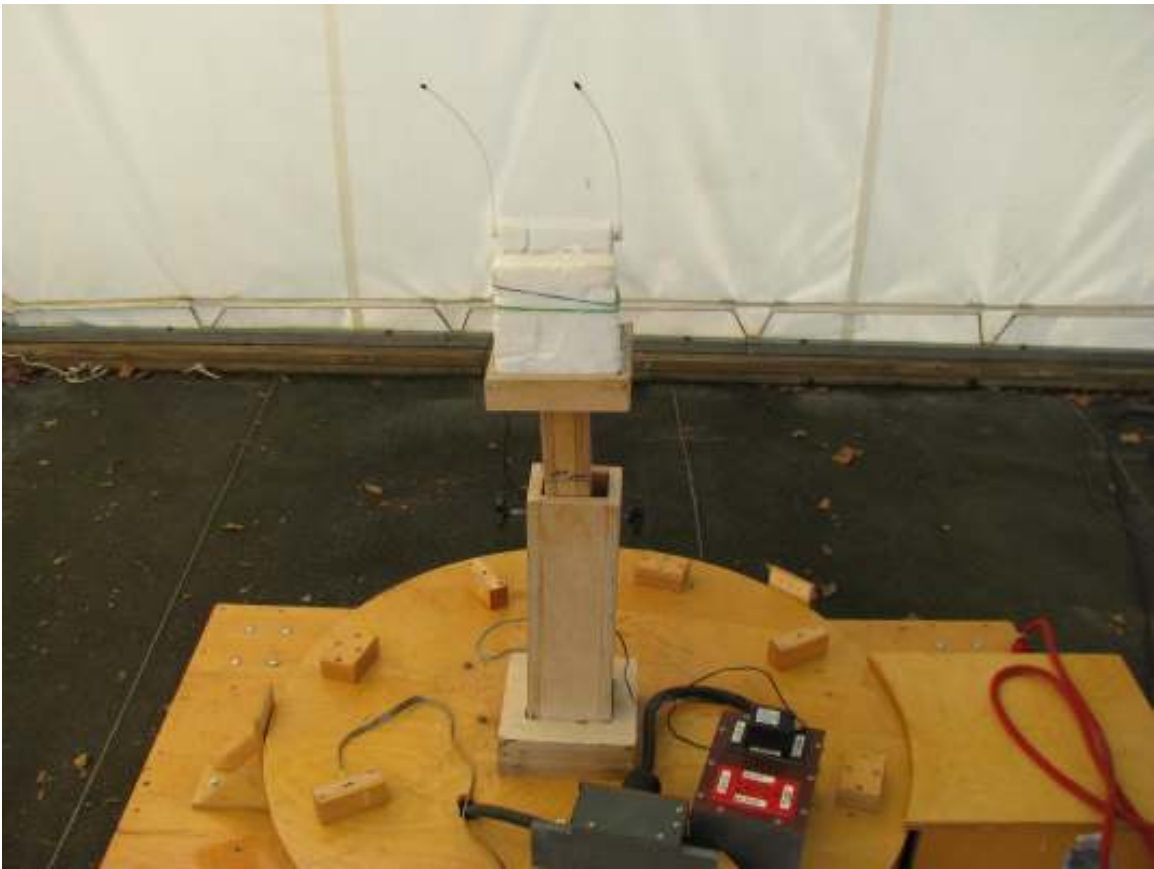
Mains Conducted

Result: Pass



Radiated Test Data - OATS 1  
 Test Date: March 21, 2010  
 Work Order: 2010023  
 Customer Reference: BC 019406  
 Model: STI Monitor  
 Mode: STI Monitor 433.9 MHz  
 Name: Jon Wilson  
 Limit/Distance: FCC B/3m

Emission Frequency (MHz)	Test Detector	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pass/Fail
433.933	Pk	61.7	32.9	94.6	100.8	-6.2	Pass
867.865	Pk	65.3	0.7	66.0	80.8	-14.8	Pass
1301.799	Pk	40.0	8.4	48.4	80.8	-32.4	Pass
1735.692	Pk	43.6	13.1	56.7	80.8	-24.1	Pass
2,169.70	Pk	37.5	9.0	46.5	80.8	-34.3	Pass
2,603.65	Pk	40.4	10.4	50.8	80.8	-30.0	Pass
3,037.59	Pk	48.6	8.8	57.4	80.8	-23.4	Pass
3,471.53	Pk	41.0	9.0	50.0	80.8	-30.8	Pass
3,905.47	Pk	36.8	10.9	47.7	80.8	-33.1	Pass
4,339.42	Pk	35.9	14.9	50.8	80.8	-30.0	Pass





## Radiated Emissions Test Equipment

Part	Manufacturer	Model	Serial Number	Barcode	Cal Due Date
Amplifier (20 MHz-2 GHz)	Rhein Tech Laboratories, Inc.	PR-1040	900905	900905	4/10/2010
Bilog Periodic Antenna (25 MHz-2 GHz)	Schaffner Chase	CBL6112	2099	900791	12/12/2010
EMI Receiver RF Section (9 KHz-6.5 GHz)	Hewlett Packard	85462A	3325A00159	900913	6/8/2010
RF Filter Section (100 KHz-6.5 GHz)	Hewlett Packard	85460A	3330A00107	900914	6/8/2010
Spectrum Analyzer	Hewlett Packard	8596EM	3826A00144	901215	11/23/2010
Amplifier (1 GHz – 26.4 GHz)	Hewlett Packard	8449B OPT H02	3008A00505	900932	2/22/2011
Horn Antenna, 2.0-4.0 GHz	EMCO	3161-02	9804-1044	900772	6/13/2010
Horn Antenna, 4.0-8.2 GHz	EMCO	3161-03	9508-1020	900321	6/13/2010
Emissions Testing Software	Rhein Tech Laboratories, Inc.	Automated Emission Tester	Rev. 14.0.2	N/A	N/A

## Conducted Emissions Test Equipment

Part Type	Manufacturer	Model	Serial Number	Barcode	Cal Due Date
Spectrum Analyzer (100Hz-.15GHz)	Hewlett Packard	8567A	2602A00160	900968	9/8/2010
Spectrum Analyzer Display Section	Hewlett Packard	85662A	2542A11239	900970	9/8/2010
Quasi-Peak Adapter	Hewlett Packard	85650A	2521A00743	900339	9/8/2010
Filter	Solar	8130	947306	900729	8/19/2010
16A LISN	AFJ International	LS16/110VAC	16010020080	901083	11/4/2010
Emissions testing software	Rhein Tech Laboratories, Inc.	Automated Emission Tester	Rev. 14.0.2	N/A	N/A
Test software	Quantum Change	Tile!	4.0.A.8	N/A	N/A