



## EMC Test Data

Client:	Electricity Metering, ABB Inc.	Job Number:	J47046
Model:	A0001SC4200	T-Log Number:	T47058
		Proj Eng:	Juan Martinez
Contact:	Bill A. Melvin		
Spec:	FCC 22H, Part 2.1091 Mobile	Class:	N/A

### Section 2.1053 & RSS-133 (6.3): Field strength of Spurious emissions

#### Test Specifics

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 3/11/2003

Config. Used: 1

Test Engineer: jmartinez

Config Change: None

Test Location: SVOATS #4

EUT Voltage: 5 Vdc

#### General Test Configuration

The EUT was located on the turntable for radiated emissions testing.

On the OATS, the measurement antenna was located 3m from the EUT for the frequency range 1 - 20 GHz.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT. For any Spurious emission more than 20-dB substitution was performed. Substitution Method is not required for Spurious emissions 20-dB below the calculated field strength limit.

#### Ambient Conditions:

Temperature: 10°C

Rel. Humidity: 58%

#### Summary of Results

Run #	Test Performed	Limit	Result	Margin
1	RE, Preliminary Scan 30 - 1000 MHz	22.917(e)	Pass	Refer to individual runs

#### Modifications Made During Testing:

No modifications were made to the EUT during testing

#### Deviations From The Standard

No deviations were made from the requirements of the standard.



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### Run #1: Maximized Radiated Emissions, Fundamental to 10th Harmonic

Frequency	Level	Pol	22.917(e)		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
			(dBm)	(dB)				
<b>Middle Channel</b>								
1673.870	-41.1	V	-13.0	-28.1	Pk	156	1.0	
2510.770	-30.3	V	-13.0	-17.3	Pk	145	1.0	
3345.803	-49.7	V	-13.0	-36.7	Pk	85	1.0	
1673.870	-26.4	H	-13.0	-13.4	Pk	307	1.4	
2504.913	-34.2	H	-13.0	-21.2	Pk	110	1.4	
3339.890	-35.3	H	-13.0	-22.3	Pk	198	1.3	
4174.908	-40.6	H	-13.0	-27.6	Pk	300	1.3	
4174.970	-33.0	V	-13.0	-20.0	Pk	320	1.2	
<b>Low Channel</b>								
1647.920	-25.5	H	-13.0	-12.5	Pk	155	1.2	
2472.045	-28.1	H	-13.0	-15.1	Pk	41	1.2	
2473.037	55.2	V	82.2	-27.0	Pk	112	1.0	
3297.420	54.8	V	82.2	-27.4	Pk	142	1.0	
4119.980	-42.2	H	-13.0	-29.2	Pk	60	1.3	
3296.837	51.2	H	82.2	-31.0	Pk	23	1.2	
4120.040	-44.5	V	-13.0	-31.5	Pk	327	1.4	
1648.528	47.5	V	82.2	-34.7	Pk	145	1.0	
<b>High Channel</b>								
1697.890	-30.2	H	-13.0	-17.2	Pk	259	1.1	
2546.870	-31.8	H	-13.0	-18.8	Pk	251	1.4	
4244.792	-47.0	H	-13.0	-25.7	Pk	0	0.0	
3395.850	-41.4	H	-13.0	-28.4	Pk	91	1.4	
3396.182	48.3	V	82.2	-33.9	Pk	225	1.0	
4244.860	-47.0	V	-13.0	-34.0	Pk	76	1.4	
2547.124	48.0	V	82.2	-34.2	Pk	320	1.0	
1697.950	47.2	V	82.2	-35.0	Pk	56	1.0	

Note 1: No emission close to 20-dB of the limit detected beyond the 4th harmonic.