

**APPLICATION FOR
TYPE ACCEPTANCE
Supplemental Information**

Sierra Wireless Inc.

FCC ID: N7NACRD2

MODEL: AIRCARD 2

Prepared by:
Sierra Wireless Inc.

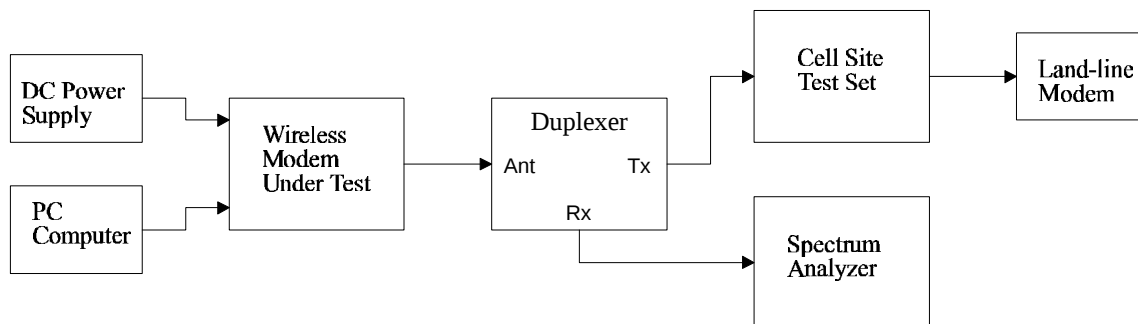
#260 - 13151 Vanier Place
Richmond, B.C.
V6V 2J2

Dec 1, 1998

Spurious Emissions at Antenna Terminal (2.991)

Name of Test:	Spurious Emssions at Antenna Terminal
FCC ID:	N7NACRD2
Grantee:	Sierra Wireless
Serial No.:	CE000221
Minimum Standard Specified	Para. 22.917 (f)
Test Results	Equipment is Compliant with Standard
Equipment Authorization Procedure	Para 2.989 (c)(1)
Test Equipment:	HP8594E Spectrum Analyzer HP8921A Cell Site Test Set Astron VS20M DC Power Supply Zegna 486 PC Computer Mini-Circuits splitter, model ZA3PD-1.5 Land-line modem: shop built (unit # 1) RF attenuators, model PE7016-30, and CAT-3

Test Setup Block Diagram



Measurement Data

Spectrum Analyzer:

Settings:

Hewlett Packard 8594E

Resolution Bandwidth 30 kHz

Video Filter 30 kHz

Scan Time 58 msec

Start Frequency 869 MHz

Stop Frequency 894 MHz

Data Or Signaling Type

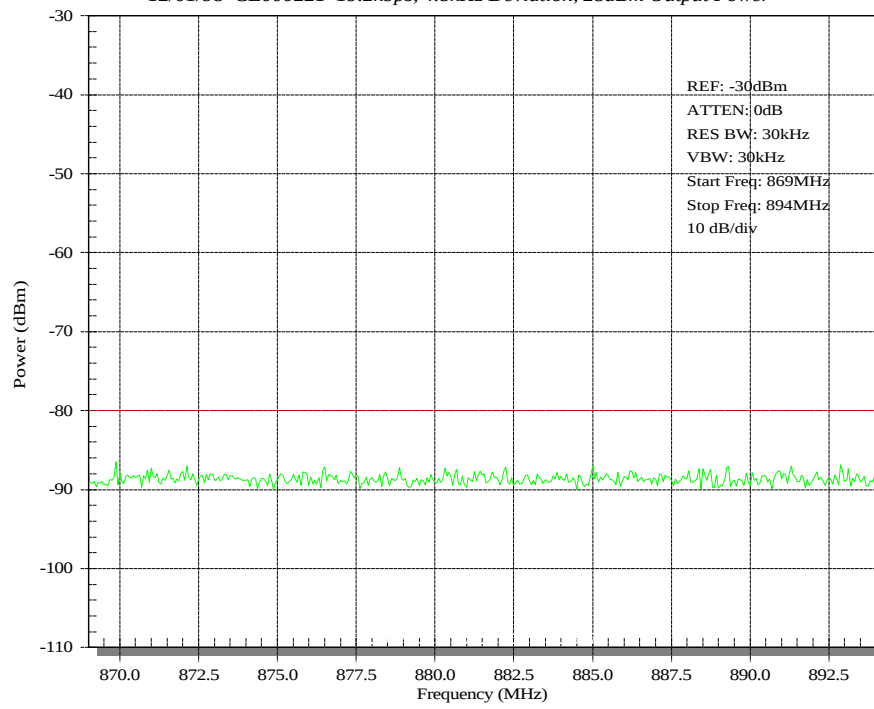
1) CDPD, Cellular Digital Packet Data (19.2 kbaud)

Tx Deviation

4.8 kHz

Emission Designator

31K5FXW

Spurious Emissions at Antenna Terminals - 2.991*12/01/98 CE000221 19.2kbps, 4.8kHz Deviation, 28dBm Output Power*

Test Equipment List

Sierra Wireless, Inc.

Type	Manufacturer and Model No.	Serial no.	Accuracy
Spectrum Analyzer	Hewlett Packard HP8562A	08562-60062	
Pre-Amp	Hewlett-Packard 83006A	3104A00167	
Amplifier 9 kHz-1300MHz	Hewlett Packard 8447F OPT H64	2727A02208	
Service Monitor	IFR FM/AM 500A	4103	0.2PPM
Oscilloscope	Kikusui C055060	6132295	
Power Supply	Astron VS35	8601266	
Voltmeter	Fluke 8020A	N2420658	DCV +/- 0.1%
Multimeter	Fluke 25	3710310	DCV +/- 0.1%
Wattmeter	Bird 43	56227	+/-5%FS
RF Termination	Bird 8135	10004	1.1 VSWR
Dual Phase LISN 50 ohm/50 uH	STI per MP-4	O2	
Dual Phase LISN 50 ohm/50 uH	Compliance Design	9=8012-50R-24-BNC	
Audio Generator	Hewlett-Packard 205-AG	8689	
Attenuators	Texscan FP45-20 Texscan FP45-10 Weinshel 40-10-33 Mini-Circuits CAT30 Pomona 4108-10	CZ682 8419 01	+/-1% to 1.5 GHz
Thermometer	Fluke 52	3965185	+/- (0.1% reading +/-0.7 deg C)
Test Line Simulator	Teltona TLS-2	none	
Turn Table, RC	EMCO 1060-2M	8912-1415	
Antenna Mast, RC	Compliance Design, Inc.	M100	
Antennas	Singer/Empire Devices		

Two Di-Pole Sets	Models: DM-105-T1, T2, T3	STI Modified w/Roberts Baluns
Bi-Conical	STI per Mil. Spec. 461	BCSTI-201
Bi-Conical	EMCO 3104	3763
Bi-Conical	EMCO 3104 C	9401-4635
Log-Periodic	EMCO 3146	1754
Active Loop	EMCO 6502	9107-2645
Dual Ridged Guide Horn	Electro-Metrics	EM-6961/RGA-60
Pyramidal Feed/	EmpireDevices AT-112	none
Para. Dish	LPA-112, HF-112	
RGA-60	Electro-Metrics	6225