

9/9/02

FCC Measurement

Compliance Certification Services, Morgan Hill Open Field Site

Test Engr:

Thu

Project #:

02U1312-1

Company:

Sierra Wireless, Inc.

EUT Descrip.:

800MHz / 1900MHz Dual Band CDMA PC Card

EUT M/N:

Ac575

Test Target:

FCC 22

Mode Oper:

Tx

Frequency	SA reading	SG reading	CL	Gain	Gain	ERP	Limit	Margin	Notes (dBm)
(GHz)	(dBuV)	(dBm)	(dB)	(dBi)	(dBd)	(dBm)	(dBm)	(dB)	(Average Power Meter / Spec. Analyzer)
Fundamental, Antenna @ X-Position, Standup (Low, Mid, & High Channels):									
0.824	95.50	24.80	1.00	0.00	0.00	23.80			V (23.09dBm / 26.3dBm)
0.837	95.70	25.00	1.00	0.00	0.00	24.00			V (23.15dBm / 27.0dBm)
0.849	95.60	24.90	1.00	0.00	0.00	23.90			V (23.09dBm / 26.5dBm)
Fundamental, Antenna @ Y-Position, Parelled with ground plane (Low, Mid, & High Channels):									
0.824	96.20	24.60	1.00	0.00	0.00	23.40			H (23.09dBm / 26.3dBm)
0.837	96.50	25.00	1.00	0.00	0.00	24.00			H (23.15dBm / 27.0dBm)
0.849	96.10	24.40	1.00	0.00	0.00	23.30			H (23.09dBm / 26.5dBm)
RBW=VBW=3MHz									
EPR = SG reading - CL + Gain (dBd)									
Gain (dBd) = Gain (dBi) - 2.15									
Margin = EPR - Limit									
SA: Spectrum Analyzer, HP 8593EM, S/N: 3710A00205									
SG: Signal Generator, HP 83732B, S/N: US34490599									
TX Antenna: Dipole, Compliance Design, Roberts, S/N: 116									
Horn, EMCO 3115, S/N: 6717									
CL: cable loss (5ft), FLEXCO									
RX Antenna: Bicon, Eston 94455-1, S/N: 1214									
LP, EMCO 3146, S/N: 3163									
Horn, EMCO 3115, S/N: 6739									

9/6/02

FCC Measurement**Compliance Certification Services, Morgan Hill Open Field Site**

Test Engr: Thu
Project #: 02U1312-1
Company: Sierra Wireless, Inc.
EUT Descrip.: 800MHz / 1900MHz Dual Band CDMA PC Card
EUT M/N: Ac575
Test Target: FCC 24
Mode Oper: Tx

Frequency	SA reading	SG reading	CL	Gain	Gain	EIRP	Limit	Margin	Notes (dBm)
(GHz)	(dBuV)	(dBm)	(dB)	(dBi)	(dBd)	(dBm)	(dBm)	(dB)	(Power Meter / Spectrum)
Fundamental, Antenna @ X-Position, Standup (Low, Mid, & High Channels):									
1.850	100.20	18.60	1.30	8.15	0.00	25.45			V (23.1dBm / 26.9dBm)
1.880	101.30	19.50	1.30	8.15	0.00	26.35			V (23.2dBm / 27.0dBm)
1.909	100.30	18.70	1.30	8.15	0.00	25.55			V (23.1dBm / 26.9dBm)
Fundamental, Antenna @ Z-Position, Parelled with ground plane & Laptop (Low, Mid, & High Channels):									
1.850	100.50	18.70	1.30	8.15	0.00	25.55			H (23.1dBm / 26.9dBm)
1.880	101.80	19.40	1.30	8.15	0.00	26.25			H (23.2dBm / 27.0dBm)
1.909	100.60	18.80	1.30	8.15	0.00	25.65			H (23.1dBm / 26.9dBm)

RBW=VBW=3MHz

EIPR = SG reading - CL + Gain (dBi)**Margin** = EIPR - Limit**SA:** Spectrum Analyzer, HP 8593EM, S/N: 3710A00205**SG:** Signal Generator, HP 83732B, S/N: US34490599**TX Antenna:** Horn, EMCO 3115, S/N: 6717**CL:** cable loss (3ft), FLEXCO**RX Antenna:** Horn, EMCO 3115, S/N: 6739