Flom Test Labs
EMI, EMC, RF Testing Experts Since 1963

toll-free: (866) 311-3268
fax: (480) 926-3598
http://www.flomlabs.com
info@flomlabs.com

Date: March 22, 2007

Applicant: Novatel Wireless Inc.
                          9645 Scranton Rd, Suite 205
                          San Diego, CA 92121

Mailing: Novatel Wireless Inc.
                          9645 Scranton Rd, Suite 205
                          San Diego, CA 92121

Attention of: John Jiang, Project Manager
                          888-888-9231; FAX:-2888
                          Email: jjiang@novatelwireless.com

Equipment: PKRNVWE725 Collocated with QDS-BRCM1019 802.11.a,b,g
FCC ID: PKRNVWE725
P.O. Number:
FCC Rules: Radio Frequency Radiation Exposure Limits
                          47 CFR 1.1310
                            MPE - Mobiles   X   Fixed Based Station _____

Gentlemen:

Enclosed please find your copy of the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

Please allow from 8-12 weeks to hear from the Commission, who may request additional data or information, and even a sample for pre-grant audit testing.

Should you need any clarification, just fax or phone. Thank you again for this order - it has been a pleasure to be of service.

                                                          Sincerely yours,
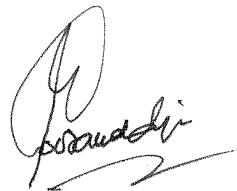
                                                          Hoosamuddin S. Bandukwala, Lab Director

enclosure(s)
HSB/jhe

Date: March 22, 2007

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

Applicant: Novatel Wireless Inc.
Equipment: PKRNVWE725 Collocated with QDS-BRCM1019 802.11.a,b,g
FCC ID: PKRNVWE725
FCC Rules: Radio Frequency Radiation Exposure Limits
                             47 CFR 1.1310
                               MPE - Mobiles   X   Fixed Based Station _____

Gentlemen:

On behalf of the Applicant, enclosed please find the Supplemental Test Data Report, the whole for Environmental Assessment (MPE) of the referenced equipment as shown.

We trust the same is in order. Should you need any further information, kindly contact the writer who is authorized to act as agent.

                                        Sincerely yours,

                                        Hoosamuddin S. Bandukwala, Lab Director

enclosure(s)
cc: Applicant
HSB/jhe

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Environmental Assessment

for

Mobiles

for

FCC ID: FCC ID: PKRNVWE725

Model:PKRNVWE725

to

Federal Communications Commission

47 CFR 1.1310 (MPE)

Radio Frequency Radiation Exposure Limits

Date Of Report: March 22, 2007

On the Behalf of the Applicant: Novatel Wireless Inc.

At the Request of: Novatel Wireless Inc.
9645 Scranton Rd, Suite 205
San Diego, CA 92121

Attention of: John Jiang, Project Manager
888-888-9231; FAX: -2888
Email: jjiang@novatelwireless.com
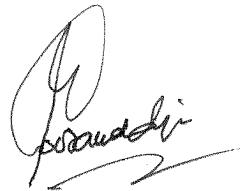
Supervised By: Hoosamuddin S. Bandukwala, Lab Director

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Rule	Description	Page

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)	**Test Report (Supplemental)**

b) Laboratory:
  (FCC: 31040/SIT)
  (Canada: IC 2044)

Flom Test Labs
3356 N. San Marcos Place, Suite 107
Chandler, AZ 85225

c) Report Number: d0730047

d) Client:

Novatel Wireless Inc.
9645 Scranton Rd, Suite 205
San Diego, CA 92121

e) Identification:

PKRNVWE725
FCC ID: PKRNVWE725

  Description: Laptop with CDMA and 802.11 a,b,g

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: March 22, 2007

h, j, k):   As indicated in individual tests.

i) Sampling method: No sampling procedure used.

l) Uncertainty: In accordance with MFA internal quality manual.

m) Supervised by:
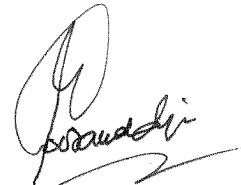
Hoosamuddin S. Bandukwala, Lab Director

n) Results: The results presented in this report relate only to the item tested.

o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.

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Chandler, Arizona 85225-7176
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Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:

Name and Address of Applicant:	Novatel Wireless Inc. 9645 Scranton Rd, Suite 205 San Diego, CA 92121
Manufacturer:	Novatel Wireless Inc. 9645 Scranton Rd, Suite 205 San Diego, CA 92121
FCC ID:	PKRNVWE725
Model Number:	PKRNVWE725
Description:	Laptop with CDMA and 802.11 a,b,g
Type of Emission:	CDMA collocated with 802.11.a,b,g
Frequency Range, MHz:	CDMA 824 - 848 and 1851 - 1908 802.11 a,b,g 2412 – 2472 and 5745 - 5825
Power Rating, Watts:	0.296

_____ Switchable   _____ Variable   __X__ N/A

Modulation:
- _____ AMPS
- _____ TDMA
- __X__ CDMA
- __X__ OTHER

Antenna:
- _____ Helical
- _____ Monopole
- _____ Whip
- __X__ Other

Note: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 0 dBd) and RF Power set to highest nominal power across all channels.

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A2LA

"A2LA has accredited Flom Test Labs, Inc. Chandler, AZ for technical competence in the field of Electrical testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO 17025:2005 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Please refer to www.a2la.org for current scope of accreditation.

Certificate number: 2152.01

![A2LA ACCREDITED logo, CERT NO: 2152-01]

**Standard Test Conditions
and
Engineering Practices**

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2000, section 6.1.9, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

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Name of Test: Environmental Assessment

Specification: FCC: 47 CFR 1.1310

Measurement Guide: ANSI/IEEE C95.1 1992

Name of Test: R.F. Radiation Exposure

FCC Rules: 1.1307, 1.1310, 1.1311, 2.1091
Description, EUT: See page 2 of Test Report

Limits: Uncontrolled Exposure		
47 CFR 1.1310	0.3-1.234 MHz:	Limit [mW/cm²] = 100
Table 1, (B)	1.34-30 MHz:	Limit [mW/cm²] = $(180/f^2)$
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz	Limit [mW/cm²] = f/1500
	1500-100,000 MHz:	Limit [mW/cm²] = 1.0

Test Frequencies, MHz   824 – 848
Power, Conducted, mW   = 291
Antenna Gain   = 3 dBi
Antenna Model   Planer Inverted F Antenna
Distance cm   20

Limit Calculations   Limit$_{[mW/cm2]}$ =   0.549

Test Frequencies, MHz   1851 - 1908
Power, Conducted, mW   = 296
Antenna Gain   = 3 dBi
Antenna Model   Planer Inverted F Antenna
Distance cm   20

Limit Calculations   Limit$_{[mW/cm2]}$ =   1.0

PKRNVWE725 CDMA

CDMA Frequency MHz	TX Power (m)W	Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
824 – 848	291	0.116	0.549	Pass
1851 - 1908	296	0.117	1.0	Pass

QDS-BRCM1019 802.11.a,b,g

802.11 a,b,g Frequency MHz	TX Power (mW)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
2412 - 2472	433	0.172	1.0	Pass
5745 - 5825	233	0.093	1.0	Pass

PKRNVWE725 CDMA Collocated with QDS-BRCM1019 802.11.a,b,g

CDMA Frequency MHz	802.11.a,b,g Frequency MHz	CDMA Power Density (mW/cm^2)	802.11.a,b,g Power Density (mW/cm^2)	Total Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
824 – 848	2412 – 2472	0.116	0.172	0.288	0.549	Pass
824 – 848	5745 - 5825	0.116	0.093	0.209	0.549	Pass
1851 - 1908	2412 – 2472	0.117	0.172	0.289	1.0	Pass
1851 - 1908	5745 - 5825	0.117	0.093	0.210	1.0	Pass

End of Test Report

Supervised By: Hoosamuddin S. Bandukwala, Lab Director

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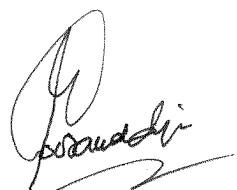
Testimonial **and** **Statement of Certification**

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.

2. **That** the technical data supplied with the application was taken under my direction and supervision.

3. **That** the data was obtained on representative units, randomly selected.

4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.
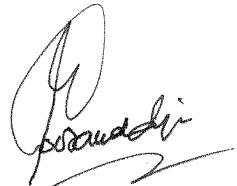
Certifying Engineer: Hoosamuddin S. Bandukwala, Lab Director

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