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: July 27, 2007

Federal Communications Commission
Via: Electronic Filing

Attention: Authorization & Evaluation Division

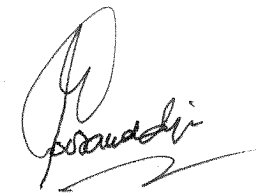
Applicant:	Novatel Wireless Inc.
Equipment:	PKRNVWE725 Collocated with QDS-BRCM1022 802.11.a,b,g
FCC ID:	PKRNVWE725
FCC Rules:	Radio Frequency Radiation Exposure Limits 47 CFR 1.1310 MPE - Mobiles ___X___ Fixed Based Station _____

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

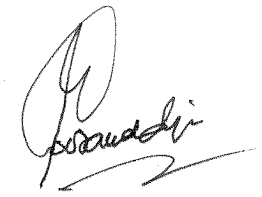
Federal Communications Commission

47 CFR 1.1310 (MPE)

Radio Frequency Radiation Exposure Limits

Date Of Report: July 27, 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 Spall, Project Manager Ph: 858-812-0697 Fax: 858-450-7183 Email: jspall@nvtl.com



Supervised By: Hoosamuddin S. Bandukwala, Lab Director

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	Test Report	1
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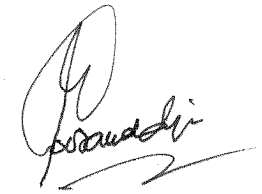
1.1310	Environmental Assessment	4

Required information per ISO 17025-2005, paragraph 5.0:

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:	d0770022
d) Client:	Novatel Wireless Inc. 9645 Scranton Rd, Suite 205 San Diego, CA 92121
e) Identification: Description:	PKRNVWE725 FCC ID: PKRNVWE725 Dell laptop models Inspiron 1526, Inspiron 1525, and XPS M1530
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date:	July 27, 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.

Identification of the Equipment Under Test (EUT)

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:	Dell laptop models Inspiron 1526, Inspiron 1525, and XPS M1530
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 – 2462 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.

Standard Test Conditions
and
Engineering Practices

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

In accordance with ANSI C63.4-2004, 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.

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

ACCREDITED
CERT NO: 2152-01

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

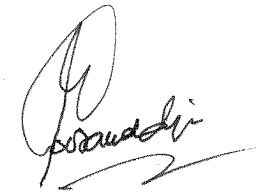
QDS-BRCM1022 802.11.a,b,g

802.11 a,b,g Frequency MHz	TX Power (mW)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
2412 – 2462	489	0.195	1.0	Pass
5745 - 5825	406	0.162	1.0	Pass

PKRNVWE725 CDMA Collocated with QDS-BRCM1022 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 – 2462	0.116	0.195	0.311	0.549	Pass
824 – 848	5745 - 5825	0.116	0.162	0.278	0.549	Pass
1851 - 1908	2412 – 2462	0.117	0.195	0.312	1.0	Pass
1851 - 1908	5745 - 5825	0.117	0.162	0.279	1.0	Pass

End of Test Report



Supervised By: Hoosamuddin S. Bandukwala, Lab Director

Testimonial
and
Statement of Certification

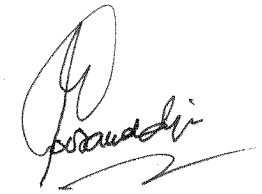
This is to certify that:

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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