

RADIATED EMISSIONS

DATA

FOR

QUALCOMM, INC. 10300 Campus Point Drive San Diego, CA 92121

Prepared by

TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912



Measurement Requirements (CFR 47 Part 24, Paragraph 24.238)

The measurements which follow were performed by TÜV Product Service. To the best of my knowledge these tests were conducted in accordance with the procedures outlined in Part 24 of the Commission's Rules and Regulations. The data presented below demonstrates compliance with the appropriate technical standards.

Floyd R. Fleury EMC Manager

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Emissions Test Conditions: RADIATED EMISSIONS

The Radiated F	<i>Emissions</i> measurements we	ere performed us	sing the follow	ing equipment:
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Roof (small open area test site)

Test Equipment Used :	_				
Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
8566B	720/721	Spectrum Analyzer & Display	Hewlett Packard	2115A00842	03/00
				2112A02185	
3115	453	Double Ridge Antenna	EMCO	9412-4364	10/99
AFD3-0208-40-ST	367	Pre-amplifier (30 dB gain) 2 - 8	Miteq, Inc.	155382	10/99
		GHz			
Remarks:					



Testing Facilities

Certificates of Approval



National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990 ISO 9002:1987

Scope of Accreditation



Page: 1 of 1

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.

10040 Mesa Rim Road San Diego, CA 92121-1034 Mr. Floyd R. Fleury

Phone: 619-546-3999 Fax: 619-546-0364

NVLAP Code Designation / Description

International Special Committee on Radio Interference (CISPR) Methods

12/CIS22

IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance

characteristics of information technology equipment

Federal Communications Commission (FCC) Methods

12/F01

FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a

Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b

Radiated Emissions

Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T51

AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of

Information Technology Equipment

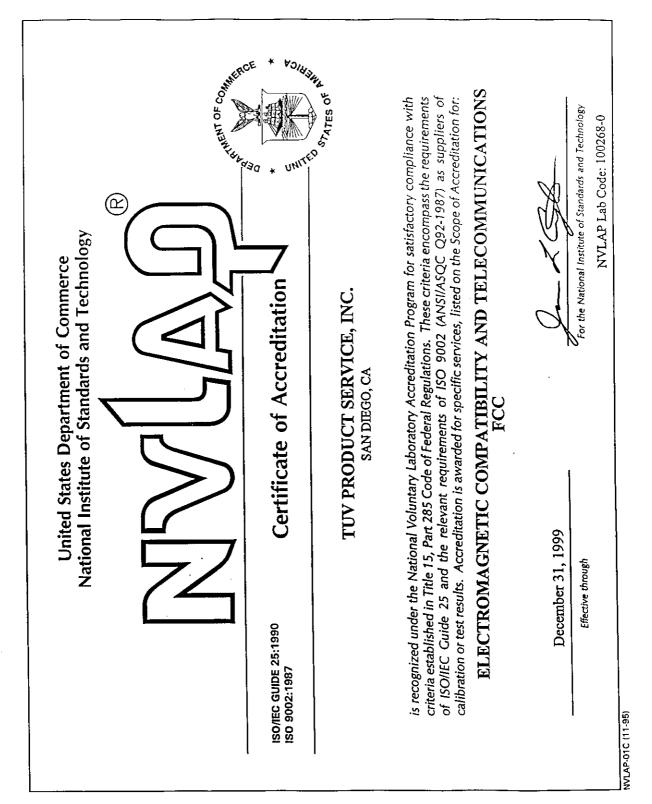
December 31, 1999

Effective through

For the National Institute of Standards and Technology

NVLAP-01S (11-95)





Page 6 of 11





UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899-

NVLAP Lab Code: 100268-0

December 1, 1998

Mr. Floyd R. Fleury TUV Product Service, Inc. 10040 Mesa Rim Road San Diego, CA 92121-1034

Dear Mr. Fleury:

I am pleased to inform you that continuing accreditation for specific test methods in Electromagnetic Compatibility & Telecommunications, FCC is granted to your organization under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until December 31, 1999, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your Certificate of Accreditation is enclosed along with a statement of your Scope of Accreditation. You may reproduce these documents in their entirety and announce your organization's accreditation status using the NVLAP logo in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Jon Crickenberger, Sr. Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-4016.

Sincerely,

James L. Cigler, Chief

Laboratory Accreditation Program

Enclosure(s)

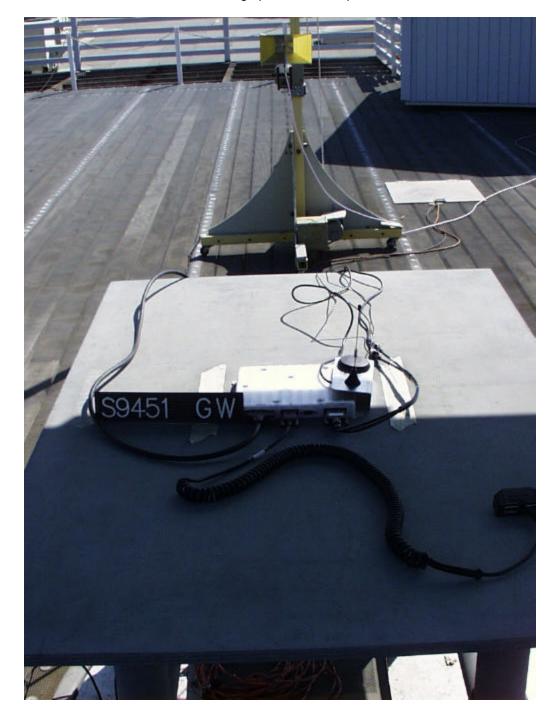








Photograph of Test Setup





REPORT No: \$9451 TESTED BY: GW SPEC: FCC 24.238

CUSTOMER: Qualcomm Inc. TEST DIST: 3

E U T: TCU PCS w/ seperate antennas TEST SITE: 3

EUT MODE: Transmit full power, CDMA BICONICAL: N/A

DATE: 20-Sep-99 LOG: N/A

NOTES: Duty Cycle= 100% OTHER: 453

12VDC

Ch 25, Ch 600, Ch 1175

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FREQ (MHz)	VERT (dB	rical uv) av	HORIZO (dB		CORRECTION FACTOR (dB/m)	MAX L (dBu)	SPEC : (dBu\ pk		MAR (di pk		EUT Rotation	Antenna Height
1851.25	79.8		72.4	1	29.5	109.3	 P.		P		120	1
3702.5	26.9		24		39.5	66.4	82.2		-15.8		200	11
5553.75	15.4		11.7		43.1	58.5	 82.2		-23.7		70	11
7406	12.4		11.7		45.8	58.2	82.2		-24		0	1.5
7400	12.4				40.0	36.2	02.2		-24		-	1.5
1880	79.8		68.8		32.3	112.1					20	1
3760	23		24.9		39.7	64.6	 82.2		-17.6		0	1.5
5640	13.4		10.1		43.3	56.7	 82.2		-25.5		330	1.5
7520	12		7.8		46.0	58.0	 82.2		-24.2		0	1.5
1908.75	84.2		71.7		32.5	116.7					20	1
3817.5	29.6		14.7		39.9	69.5	82.2		-12.7		45	2
5726.25	16.6				43.5	60.1	 82.2		-22.1		45	2
7635	14				46.2	60.2	82.2		-22		80	2
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REPORT No: \$9451 TESTED BY: GW SPEC: FCC 24.238

CUSTOMER: Qualcomm Inc. TEST DIST: 3

EUT: TCU PCS w/ Dual Band antenna TEST SITE: 3

EUT MODE: Transmit full power, CDMA BICONICAL: N/A

DATE: 20-Sep-99 LOG: N/A

NOTES: Duty Cycle= 100% OTHER: 453

12VDC Ch 25, Ch 600, Ch 1175

01725, 511 000, 511 1110

FREQ (MHz)	VERTICAL (dBuv)		HORIZONTAL (dBuv)		FACTOR	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Height
(वातर)	pk	av	pk	av	(dB/m)	pk	av	pk	av	pk	av	S T	1
1851.25	84.7		72.4		29.5	114.2						120	1
3702.5	39.1		34.4		39.5	78.6		82.2		-3.63		200	1.
5553.75	22.7				43.1	65.8		82.2		-16.4		70	1.
7406					45.8	45.8		82.2		-36.4		0	1.
1880	88		68.8		32.3	120.3						20	1
3760	28		22.9		39.7	67.7		82.2		-14.5		0	1.
5640	17.2		12		43.3	60.5		82.2		-21.7		330	1.
7520	12		7.8		46.0	58.0		82.2		-24.2		0	1.
1908.75	86.1		76		32.5	118.6						20	1
3817.5	38		19.9		39.9	77.9		82.2	<u> </u>	-4.29		45	2
5726.25	24.4		6.5		43.5	67.9		82.2	<u> </u>	-14.3		45	2
7635	14		7.6		46.2	60.2		82.2		-22		80	2
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