

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

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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.

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Floyd R. Fleury EMC Manager

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Emissions Test Conditions: RADIATED EMISSIONS

The *Radiated Emissions* measurements were performed using the following equipment:

Roof (small open area test site)

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 GHz	3 Miteq, Inc.	155382	10/99

Remarks:

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Testing Facilities

Certificates of Approval

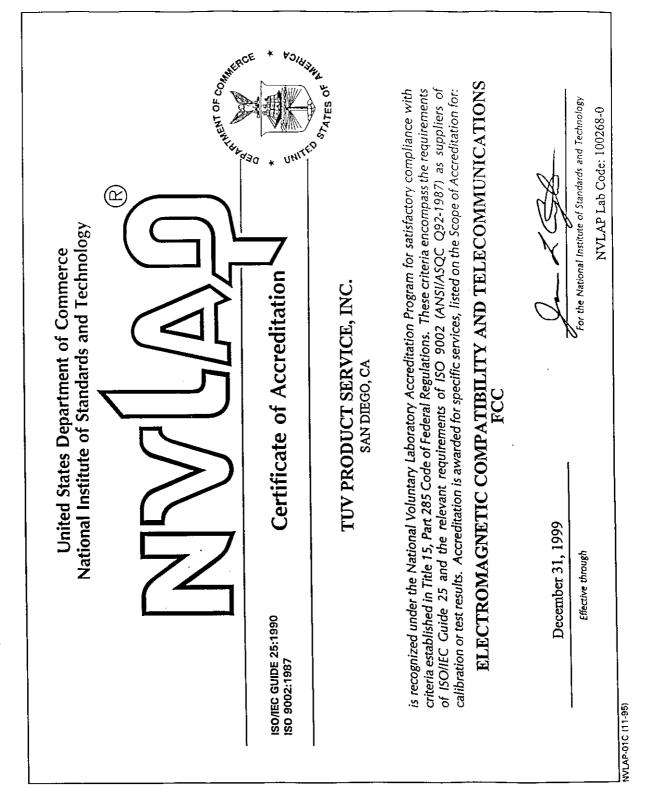
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	National Institute National Voluntary and Technology National Voluntary Laboratory Accreditation Program
ISO/IEC GUID ISO 9002:19	
	Page: 1 of 1 AGNETIC COMPATIBILITY NVLAP LAB CODE 100268-0 DMMUNICATIONS
	TUV PRODUCT SERVICE, INC. 10040 Mesa Rim Road San Diego, CA 92121-1034 Mr. Floyd R. Fleury Phone: 619-546-3999 Fax: 619-546-0364
NVLAP Code	Designation / Description
International S	pecial 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 Comm	unications 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 Star	adards 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)	

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TÜV PRODUCT SERVICE 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 858 546 3999 FAX 858 546 0364





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

December 1, 1998

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

NVLAP Lab Code: 100268-0

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)



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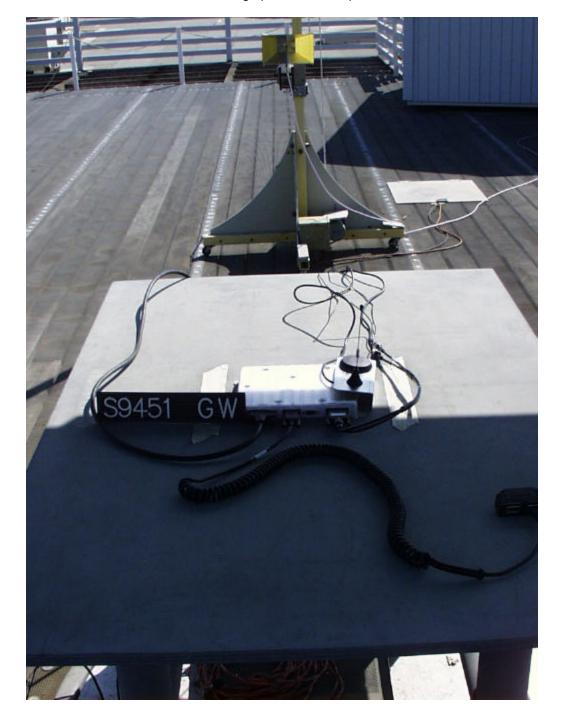




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Photograph of Test Setup



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REPORT No	S9451 TESTED BY: GW	SPEC: FCC 24.238
CUSTOMER	: Qualcomm Inc.	TEST DIST: 3
EUT:	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% 12VDC Ch 25, Ch 600, Ch 1175	OTHER: 453

													v.beta
FREQ	VERT	TICAL	HORIZ	ONTAL	CORRECTION	MAX L	EVEL	SPEC	LIMIT	MAR	GIN	Ro	Antenna Height
(MHz)	(dBuv)		(dBuv)		FACTOR	(dBuV/m)		(dBuV/m)		(dB)		EUT	eig
(pk	av	pk	av	(dB/m)	pk	av	pk	av	pk	av	<u><u></u><u></u><u></u><u></u></u>	na
1851.25	79.8		72.4		29.5	109.3						120	1
3702.5	26.9		24		39.5	66.4		82.2		-15.8		200	1.1
5553.75	15.4		11.7		43.1	58.5		82.2		-23.7		70	1.1
7406	12.4				45.8	58.2		82.2		-24		0	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	S9451 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% 12VDC Ch 25, Ch 600, Ch 1175	OTHER: 453

										,			v.beta
FREQ	VERTICAL		HORIZONTAL (dBuv)		CORRECTION	(dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height
(MHz) (dBuv		uv)			FACTOR							a C	
(, F	/ pk	av	pk	av	(dB/m)	pk	av	pk	av	pk	av	w <u>9</u> 7	1 교
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	1.1
5553.75	22.7				43.1	65.8		82.2		-16.4		70	1.1
7406			1		45.8	45.8		82.2		-36.4		0	1.5
1880	88		68.8		32.3	120.3						20	1
3760	28		22.9		39.7	67.7		82.2		-14.5		0	1.5
5640	17.2		12		43.3	60.5		82.2		-21.7		330	1.5
7520	12		7.8		46.0	58.0		82.2		-24.2		0	1.5
1908.75	86.1		76		32.5	118.6						20	1
3817.5	38		19.9		39.9	77.9		82.2		-4.29		45	2
5726.25	24.4		6.5		43.5	67.9		82.2		-14.3		45	2
7635	14		7.6		46.2	60.2		82.2		-22		80	2
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