

RADIATED EMISSIONS

DATA

FOR

KYOCERA WIRELESS CORPORATION
10300 Campus Point Drive
San Diego, CA 92121

Prepared by

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

Report No. 103704-03

Measurement Requirements (CFR 47 Part 2, Paragraph 2.1053; Part 22 Paragraph 22.917(b)(2) and 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 2 of the Commission's Rules and Regulations. The data presented below demonstrates compliance with the appropriate technical standards.



Floyd R. Fleury
EMC Manager

Emissions Test Conditions: SPURIOUS RADIATED EMISSIONS

Roof (small open area test site), San Diego

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

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
85660B	402	Spectrum Analyzer & Display	Hewlett Packard	2311A02209	02/02
3146	244	Antenna	EMCO	1063	02/02
3115	251	Double Ridge Antenna	EMCO	9412-4363	10/01
FF6549-2	781/777	High Pass Filter	Sage Laboratories	007	N/A*
FF6549-1	732	900 MHz HPF	Sage	006	N/A*
AA.190.06.00.0	657	High Frequency Cable	United Microwave Pro	--	N/A*
11975A	716	Preamplifier	Hewlett Packard	2517A00639	N/A*

Remarks: (*) Verified

Report No. 103704-03

FCC Part 2, Paragraph 2.1053; Part 22, Paragraph 22.917(b)(2) and Part 24, Paragraph 24.238

QCP 2135 Cellular Phone

Operating Mode: FM Transmit; CDMA Transmit; PCS Transmit

REPORT No: SC103704 TESTED BY: A. Laudani

SPEC. Part 22.917(b)(2)

CUSTOMER: Kyocera

TEST DIST: 3 Meters

EUT: QCP 2135

TEST SITE: 3

EUT MODE: FM Transmit

BICONICAL: N/A

DATE: Apr 26, 2001

LOG: 244

NOTES: Duty Cycle= 100%

OTHER: 251

SA #402, PreAmp #716 Filter #777

Freq under 1 GHz RBW, VBW = 100kHz

Freq over 1 GHz RBW, VBW - 1 MHz

NOTE: Limit derived from the 43 + LOG(P) formula.

REPORT No: SC103704 TESTED BY: A. Laudani

SPEC: Part 22.917(b)(2)

CUSTOMER: Kyocera

TEST DIST: 3 Meters

EUT: QCP 2135

TEST SITE: 3

EUT MODE: CDMA Transmit

BICONICAL: N/A

DATE: APR 26, 2001

LOG: 244

NOTES: Duty Cycle= 100%

OTHER: 251

SA #402, PreAmp #716 Filter #777

Freq under 1 GHz RBW, VBW = 100kHz

Freq over 1 GHz RBW, VBW - 1 MHz

Freq over 100% RDW, vDW = 1.0000

NOTE: Limit derived from the 43 + LOG(P) formula.

REPORT No: SC103704 TESTED BY: A. Laudani

SPEC: Part 24.238

CUSTOMER: Kyocera

TEST DIST: 3 Meters

EUT: QCP 2135

TEST SITE: 3

EUT MODE: PCS Transmit

BICONICAL: N/A

DATE: APR 26, 2001

LOG: 244

NOTES: Duty Cycle= 100%

OTHER: 251

SA #402, PreAmp #716 Filter #781

Freq under 1 GHz RBW, VBW = 100kHz

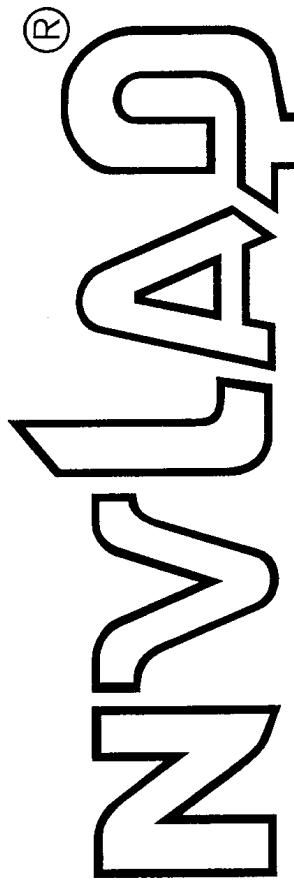
Freq over 1 GHz RBW, VBW - 1 MHz

NOTE: Limit derived from the 43 + LOG(P) formula.

Testing Facilities

Certificates of Approval

United States Department of Commerce
National Institute of Standards and Technology



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

TÜV PRODUCT SERVICE, INC.
SAN DIEGO, CA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

December 31, 2001

Effective through

David E. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 100268-0

NVLAP-01C (11-95)

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Scope of Accreditation



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ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.

10040 Mesa Rim Road
San Diego, CA 92121-1034
Mr. R. Barry Wallen
Phone: 619-546-3999 Fax: 619-546-0364
E-Mail: bwallen@TUVps.com
URL: <http://www.tuvps.com>

NVLAP Code Designation / Description

Emissions Test Methods:

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
- 12/CIS22a IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1:1995, and Amendment 2:1996.
- 12/CIS22b CNS 13438:1997: Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
- 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

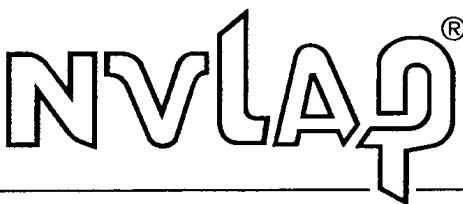
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Scope of Accreditation



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ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS

NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.

NVLAP Code Designation / Description

12/T51 AS/NZS 3548: Electromagnetic Interference - Limits and Methods of Measurement of Information Technology Equipment

MIL-STD-462 : Conducted Emissions:

12/A01 MIL-STD-462 Method CE01
12/A04 MIL-STD-462 Method CE02
12/A06 MIL-STD-462 Method CE03
12/A08 MIL-STD-462 Method CE04
12/A10 MIL-STD-462 Method CE06
12/A12 MIL-STD-462 Method CE07

MIL-STD-462 : Conducted Susceptibility:

12/B01 MIL-STD-462 Method CS01
12/B02 MIL-STD-462 Method CS02
12/B04 MIL-STD-462 Method CS03/CS04/CS05/CS08
12/B05 MIL-STD-462 Method CS06

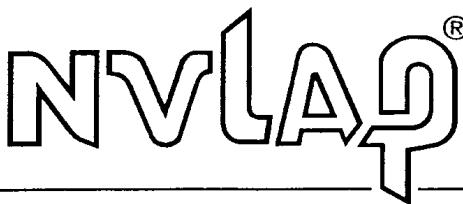
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Scope of Accreditation



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ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS

NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.

NVLAP Code Designation / Description

12/B06	MIL-STD-462 Method CS07
12/B07	MIL-STD-462 Method CS09

MIL-STD-462 : Radiated Emissions:

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02
12/D03	MIL-STD-462 Method RE03

MIL-STD-462 : Radiated Susceptibility:

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)

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Photograph of Test Setup



Photograph of Test Setup



Photograph of Test Setup



Photograph of Test Setup

