

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

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)

The <i>Spurious Radiated Emissions</i> measurements were performed using the following equipment:

Test Equipment Used :

Model No.	Prop. No.	Description	Manufacturer	Serial No.	Cal Date
85660B	407	Spectrum Analyzer & Display	Hewlett Packard	2311A02209	02/02
3146	244	Antenna	EMCO	1063	02/02
3115	453	Double Ridge Antenna	EMCO	9412-4363	10/01
FF6549-2	781/777	High Pass Filter	Sage Laboratories	007	N/A*
FF6549-1	732/787	900 MHz HPF	Sage	006	N/A*
AFD3-0208-40-ST	367	Preamplifier	Miteq	155382	N/A*
AFS4-08001800-70-10P-4	368	Preamplifier	Miteq	167	N/A*

Remarks: (*) Verified

Report No. 103138-03



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

QCP 3035 Tri-Mode Cellular Phone

Operating Mode: FM Transmit; CDMA 800 Transmit; PCS Transmit

22.917(b)(2)

REPORT No: SC103138 TESTED BY: A. Laudani
 CUSTOMER: Kyocera
 E U T: QCP 3035 Tri-Mode Cellular Phone
 EUT MODE: CDMA 800 Transmit
 DATE: Apr. 5, 2001
 NOTES: Duty Cycle= 100%
 Cable 1-732, Cable 2-787
 SA 407 RBW 1 MHz, VBW 1 MHz -- 10 MHz Span
 Above Fundamental, added highpass filter 777

SPEC: FCC Part 22.917(b)(2)
 TEST DIST: 3 Meters
 TEST SITE: 3
 BICONICAL: N/A
 LOG: 244
 OTHER: 453

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotatio	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
824.7	97.4	97.4	84.3	84.3	26.3	123.7	38.3	84.4	123.7	340	2	noise floor		
1649.4	6.8	6.8	6.6	6.6	31.5	38.3	84.4	46.1	38.3					
836.49	96.9	96.9	85.3	85.3	26.3	123.2	40.3	84.4	123.2					
1661.19	8.7	8.7	6.3	6.3	31.6	40.3	84.4	84	44.1	-44		signal vertical, noise floor horizontal		
2497.68	5.6	5.6	5.1	5.1	35.5	41.1	84.4	84	43.3	-43		noise floor		
848.31	97	97	84.3	84.3	26.5	123.5	41.9	84.4	123.5					
1692.62	10.1	10.1	0.4	0.4	31.8	41.9	84.4	84	42.5	-43		signal vertical, noise floor horizontal		
2544.93	5.9	5.9	6.1	6.1	35.7	41.8	84.4	84	42.6	-43		noise floor		

22.917(6)(e)

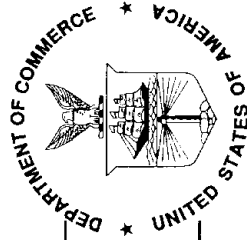
REPORT No: SC103138 TESTED BY: A. Laudani SPEC: FCC Part 22.917(6)(e)
 CUSTOMER: Kyocera TEST DIST: 3 Meters
 E U T: QCP 3035 Tri-Mode Cellular Phone TEST SITE: 3
 EUT MODE: FM Transmit BICONICAL: N/A
 DATE: Apr. 5, 2001 LOG: 244
 NOTES: Duty Cycle= 100% OTHER: 453
 Cable 1-732, Cable 2-787
 SA 407 RBW 100 kHz, VBW 100 kHz
 Above Fundamental, added highpass filter 777

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotatio	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
824.04	98.9	98.9	88.3	88.3	26.3	125.2	47.7	84.4	84.4	-36.7	47.7	340	2	
1648.08	16.2	16.2	10.5	10.5	31.5	47.7	47.7	84.4	84.4	-42.7	41.7	360	1.2	
2472.12	6.3	6.3	1.7	1.7	35.4	41.7	41.7	84.4	84.4	-44	40.4			noise floor
3296.16	1.3	1.3	0.1	0.1	39.1	40.4	40.4	84.4	84.4	-44	40.4			
836.49	98.4	98.4	87.6	87.6	26.3	124.7	42.9	84.4	84.4	-41.5	42.9	360	1	
1672.98	11.3	11.3	3.7	3.7	31.6	42.9	42.9	84.4	84.4	-44.5	39.9			noise floor
2509.47	4.3	4.3	0.7	0.7	35.6	39.9	39.9	84.4	84.4	-44.4	40			
3345.9	-0.2	-0.2	0.8	0.8	39.2	40.0	40.0	84.4	84.4	-44.4	40			
848.97	98.3	98.3	85.4	85.4	26.5	124.8	38.5	84.4	84.4	-45.9	38.5	360	1	
1697.94	6.7	6.7	2.8	2.8	31.8	38.5	38.5	84.4	84.4	-46.1	38.3			noise floor
2546.91	2.5	2.5	-0.3	-0.3	35.8	38.3	38.3	84.4	84.4	-44.4	40			
3395.88	0.6	0.6	-0.4	-0.4	39.4	40.0	40.0	84.4	84.4	-44.4	40			

Testing Facilities
Certificates of Approval

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

TUV PRODUCT SERVICE, INC.
SAN DIEGO, CA

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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)



ISO/IEC GUIDE 25:1990
ISO 9002:1987

Scope of Accreditation



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NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.

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 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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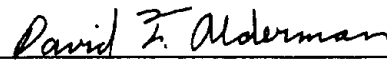
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NVLAP LAB CODE 100268-0

TUV PRODUCT SERVICE, INC.

<i>NVLAP Code</i>	<i>Designation / Description</i>
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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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

