# **Intertek Testing Services**

# APPLICATION FOR FCC CERTIFICATION

**GVC Corporation** 

900 MHz Cordless Telephone

Model: CT-900

**FCC ID: DK4CT-900** 

Report # J98036684

Number of Pages: 27

Date of Report: March 5, 1999

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This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

The results contained in this report were derived from measurements performed on the identified test samples. Any implied performance of other samples on this report is dependent on the representative of the samples tested.



FCC Part 15.249 Tx Cert, Ver 5/97

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# 0.0 **Summary of Test Results**

**GVC Corporation - Model No.: CT-900 FCC ID: DK4CT-900** 

TEST	REFERENCE	RESULTS
Radiated Emission	15.249	Complies
Conducted Emission	15.207	Complies
Antenna Requirement	15.203	Complies

	- Chum		
Test Engineer:	Cleveland Kwan	Date:	
Telco Mgr:	 C.K. Li	Date:	

Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

FCC ID: DK4CT-900

#### **General Description** 1.0

#### 1.1 **Product Description**

The GVC Corporation Model No.: CT-900 is a 900 MHz analog cordless telephone.

Please refer to the attached technical description for details.

GVC Corp., 900 MHz Cordless Telephone FCC ID: DK4CT-900

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# 1.2 Related Submittal(s) Grants

This is an Application for Certification of a low power transmitter. One transmitter is included in this Application. This specific report details the emission characteristics of transmitter.

The FCC ID for the receiver assoicated with this transmitter is . The receivers are subject to the notification authorization process. A Notification report has been prepared for the receiver.

# 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (1992). All measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. For each scan, the procedure for maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

## 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is Site 1. This test facility and site measurement data have been fully placed on file with the FCC and NVLAP accredited.

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# 2.0 **System Test Configuration**

### 2.1 Justification

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst case emissions.

For the measurements, the EUT is attached to a cardboard box (if necessary) and placed on the wooden turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). The EUT is wired to transmit full power without modulation.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Detector function is in peak mode. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

# 2.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

For emissions testing, the units were setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

- **System Test Configuration** 2.3
- 2.3.1 Support Equipment

None, the EUT was tested as a standalone device.

2.3.2 Block Diagram of Test Setup

Not applicable, the EUT was tested as a standalone device.

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#### 2.4 **Equipment Modification**

Any modifications installed previous to testing by GVC Corporation will be incorporated in each production model sold/leased in the United States.

No modifications were made to the EUT by Intertek Testing Services.

#### 2.5 Additions, deviations and exclusions from standards

No additions, deviations or exclusion have been made from standard.

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### 3.0 **Emission Results**

AC line conducted emission measurements were performed from 0.45 MH to 30 MHz. Analyzer resolution is 10 kHz or greater.

Radiated emission measurements were performed from 30 MHz to 5000 MHz. Analyzer resolution is 100 kHz or greater for 30 MHz to 1000 MHz, 1 MHz for >1000 MHz.

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

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# 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

where  $FS = Field Strength in dB(\mu V/m)$ 

 $RA = Receiver Amplitude (including preamplifier) in dB(<math>\mu V$ )

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB/m AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:-

$$FS = RR + LF$$

where 
$$FS = Field Strength in dB(\mu V/m)$$
  
 $RR = RA - AG in dB(\mu V)$   
 $LF = CF + AF in dB$ 

Assume a receiver reading of 52.0 dB( $\mu$ V) is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB( $\mu$ V/m). This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$RA = 52.0 \text{ dB}(\mu\text{V})$	AF = 7.4  dB/m
$RR = 23.0 dB(\mu V)$	CF = 1.6 dB
LF = 9.0 dB	AG = 29.0 dB

$$FS = RR + LF$$
  
 $FS = 23 + 9 = 32 dB(\mu V/m)$ 

Level in  $\mu V/m = Common Antilogarithm \{ [32 dB(\mu V/m)]/20 \} = 39.8 \mu V/m$ 

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# 3.3 Radiated Emission Data

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

**Results:** Passed by 13.4 dB at 35.9 MHz

Note: a) All emissions not reported are at least 20 dB below the limits

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# ITS Intertek Testing Services

### 1365 Adams Court, Menlo Park CA 94025

Company: GVC EUT: Analog 900MHz cortdless phone Project #: J98036684 Test Mode: Standby, base				:	S/N or FCC	C.Kwan		Initial (K		
Number: Model:	Antenna 1 EMCO 314	Pre-Amp 2 HP8447D	Cable A 13 82 3m	Cable B 0 None	OCF 0 None		Standar Limits_ Test Dis	_	FCC Part 158 2 3	meters
Frequency		Det.				Insert Loss	D. F.	Net	Limit @3m	Margin
MHz 35.9	dB(uV) 38.7	P/A/Q P	H/V V	dB(1/m) 8.9	dB 22.3	dB 1.3	dB 0.0	dB(uV/m) 26.6	dB(uV/m) 40.0	-13.4
41.9	30.6	p	v	6.9	22.4	1.3	0.0	16.4	40.0	-23.6
47,8	30.9	Ď	٧	7.7	22.3	1.3	0.0	17.7	40.0	-22.3
53.7	27.8	p	٧	6.0	22.3	1.4	0.0	12.9	40.0	-27.1
65.8	30.8	p	V	5.4	22.2	1.5	0.0	15.5	40.0	-24.5
71.6 915.1	31,2 21,7	p	<b>y</b>	5.5 21.1	22.3 22.1	1.5 8.3	0.0 0.0	15.9 29.0	40.0 46.0	-24.1 -17.0
		р	٧							
				90 90 90 90 90 90 90						
				83						

Notes: a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor

b) Insert. Loss = Cable A + Cable B + OCF.

c) Negative signs (-) in Margin column signify levels below the limits.

d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

# ITS Intertek Testing Services

#### 1365 Adams Court, Menlo Park CA 94025

			ss phone			Model #: S/N or FCC Engineer: Date of Test:	C.Kwar	eled 1	Initial:	Ø,_
Number: Model:	Antenna 1 EMCO 314	Pre-Amp 2 HP8447D	Cable A 13 S2_3m	Cable B 0 None	OCF 0 None		Standare Limits_ Test Dis	_	FCC Part 158 2 3	meters
Frequency		Det.				Insert. Loss		Net	Limit @3m	Margin
MHz	dB(uV)	PIAIQ	HN	dB(1/m)		dB	dB	dB(uV/m)	dB(uV/m)	
35.9 41.9	30.6 28.5	P	٧	8.9 6.9	22.3	1.3 1.3	0.0 0.0	18.5 14.3	40.0 40.0	-21.5 -25.7
41.9 47.9	28.5 27.8	p	٧	6.9 7.7	22.4 22.3	1.3 1.3	0.0	14.5	40.0	-25.7 -25.4
53.8	27.9 27.9	p p		7.7 6.0	22.3 22.3	1.4	0.0	13.0	40.0	-23. <del>4</del> -27.0
77.7	32.9	P	v	5.8	22.3	1.5	0.0	17.9	40.0	-22.1
916.9	23.1	Đ	v	21.1	22.1	8.3	0.0	30.4	46.0	-15.6

Notes:

- a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

# ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

CT-900

# Radiated Emissions Test Data

Company: GVC 900Mz cordless phone; base unit Project #: J98036684 Test Mode: TX@low channel

S/N or FCC not tabeled Engineer: C,Kwan Date of Test: 03/01/99

Model #:

Initial:

	Anteni	na Pre-	amn (She	A Canto	B OCF
\$65,666,6 <u>2,666,665,566,666,656</u>	50,69665566655556	858688888858888888888888	50000000000000000000000000000000000000		500 10 (A)
umher			12		
LATINGS.			60010000000000000000000 <b></b> 00	111 0011 1101 110 000 000 000 000	. 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	201000000000000000		500000000000000000000000000000000000000	2000001112011200100000000	
tarata historia		Salahan ang digital k	ne Green	A #	

Standard FCC Part 15.249 Limits\_ Test Distance

Frequency Reading Det.		Ant. Factor	Pre-Amp	Insert Loss	D.F.	Net	Limit @3m	Margin
MHz dB(uV) P/A/Q	HN	dB(1/m)	dВ	dB	dB	dB(uV/m)	dB(uV/m)	₫B
9020 605 n	h	23.1	0.0	0.0	0.0	83.6	94.0	-10.4

Notes:

a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor

b) Insert. Loss = Cable A + Cable B + OCF.

c) Negative signs (-) in Margin column signify levels below the limits.

d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

**ITS** Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

# Radiated Emissions Test Data

Company: GVC EUT: 900Mz cordless phone; base unit Project#: J98036684 Test Mode: TX@low channel

Model #: CT-900 S/N or FCC not labeled Engineer: C Kwan Date of Test: 03/02/99

	vntenna Pre-Amp		
	8 8		
Model: EN	ICO 311 CDI_P1000	Green_M+L	None None

Standard_	FCC Part 15.249
Limits_	12
Test Distance	3 meters

Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Amp	insert Loss	D.F.	Net	Limit @3m	Margin
MHz	dB(uV)	P/A/Q	HA	dB(1/m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dΒ
1804.5	34.0		٧		29.3	1.9	0.0	31.5	54.0	-22.5
1804.5	32.4		٧		29.3	1.9	0.0	29.9	54.0	-24.1
2706.1	40.5	Ð		27.9	28.4	2.3	0.0	42.3	74.0	-31.7
2706.1	40.2	8	٧	27.9	28.4	2.3	0.0	42.0	54.0	-12.0
3608.1	42.7	D	<b>X</b>	31.3	27.8	2.7	0.0	48.9	74.0	-25.2
3608.1	42.1	3	٧	31.3	27.8	2.7	0.0	48.3	54.0	-5.8
4510.1	28.5	•	ν	32.1	27.9	3.2	0.0	35.9	74.0	-38.1
4510.1	27.2		¥		27.9	3.2	0.0	34.6	54.0	-19.4
5412.3	29.9	<b>D</b>	V	33.1	28.3	3.5	0.0	38.2	74.0	-35.8
5412.3	28.0	8	٧	33.1	28.3	3.5	0.0	36.3	54.0	-17.7
6314.4	29.2		y		28.0	3.9	0.0	39.5	74.0	-34.5
6314.4	27.2	a	¥	34.4	28.0	3.9	0.0	37.5	54.0	-16.5
7216.4	26.7	Ð	¥	36.3	28.0	4.3	0.0	39.3	74.0	-34.7
7216.4	25.0		٧		28.0	4.3	0.0	37.6	54.0	-16.4
8118.8	28.0		٧	111	27.2	4.8	0.0	42.5	74.0	-31.5
8118.8	28.2		٧		27.2	4.8	0.0	40.7	54.0	-13.3
9020.8	26.3		٧		26.8	4.7	0.0	42.4	74.0	-31.6
9020.8	24.2	a	Ÿ		26.8	4.7	0.0	40.3	54.0	-13.7

Notes:

- a) P. Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999



	,		8				1365 Ad	ams Court,	Menlo Park C	A 94025
			Radiated	l Emissio	ns Test	Data				,
EUT: Project #:	GVC 900Mz cor J98036684 TX@high c		; base unit			S/N or FCC	CT-900 not labe C Kwan 03/02/	led	Initiak	Q)
Number: Model:	Antenna 1 EMCO 314	Pre-Amp 0 None	Cable A 12 Green_M+L	Cable 8 0 None	OCF 0 None		Standard Limits_ Test Dist	_	FCC Part 15. 12 3	249 meters
Frequency MHz	Reading dB(uV)	Det. P/A/Q	Ant. Pol.			insert Loss dB	D. F.	Net dB(uV/m)	Limit @3m dB(uV/m)	<b>Margin</b> dB
903.8	61.0	p	h	23.1	0.0	0.0	0.0	84.1	94.0	-9.9

a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF: Other Correction Factor; DF: Distance Factor

b) Insert, Loss = Cable A + Cable B + OCF.

c) Negative signs (-) in Margin column signify levels below the limits.

d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

# ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

### Radiated Emissions Test Data

Company: GVC 900Mz cordless phone; base unit Project #: J98036684 Test Mode: TX@high channel

CT-900 Model #: S/N or FCC not labeled Engineer: C.Kwan Date of Test: 03/02/99

tenna Pre-Amp Cable A Cable B	
8 8 12 0	
00 311 CDI P1000 Green M+L None	

Standard_	FCC Part 15.249
Limits_	12
Test Distance	3 meters

1807.9 34 1807.9 33 2711.9 45	4.1 3.4		Y Y		dB 29.3 29.3	dB 1.9	<b>dB</b> 0.0	dB(uV/m) 31.6	dB(uV/m) 54.0	dB -22.4
1807.9 33 2711.9 45	3.4	3							54.0	-22.4
2711.9 45	600410:000:00:00:00:00:00:00			24.9	20.3	4.0				
	56	*****			29.3	1.9	0.0	30.9	54.0	-23.1
2711 Q 4	5.6.70 to 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	<b>p</b>	¥	27.9	28.4	2.3	0.0	47.4	74.0	-26.6
	5.5	. 8	<b>V</b>	27.9	28.4	2.3	0.0	47.3	54.0	-6.7
3615.8 43	3,9	F111 F1	¥		27.8	2.7	0.0	50.1	74.0	-24.0
3615.8 43	3.6	3	¥	31.3	27.8	2.7	0.0	49.8	54.0	-4.3
4519.7 31	1.3	p		32.1	27.9	3.2	0.0	38.7	74.0	-35.3
4519,7 30	2.1	a	y		27.9	3.2	0.0	37.5	54.0	-16.5
5423.4 30	3.7	p	h	32.9	28.3	3.5	0.0	38.8	74.0	-35.2
5423.4 23	3.6	a	h	32.9	28.3	3.5	0.0	31.7	54.0	-22.3
6327.7 31	1.8	p	Y	34.4	28.0	3.9	0.0	42.1	74.0	-31.9
6327.7 30	).2	a		34.4	28.0	3.9	0.0	40.5	54.0	-13.5
7231.5 26	3.5	p	٧	36.3	28.0	4.3	0.0	41.1	74.0	-32.9
7231.5 26	3,5		٧	36.3	28.0	4.3	0.0	39.1	54.0	-14.9
8135.5 29	9.5	p	<b>V</b>	36.9	27.2	4.8	0.0	44.0	74.0	-30.0
8135.5 28	3.7	a	V	36.9	27.2	4.8	0.0	43.2	54.0	-10.8
9039.4 25	5.6	p	<b>Y</b>	38.2	26.8	4.7	0.0	41.7	74.0	-32.3
9039.4 24	4.5	3	¥	38.2	26.8	4.7	0.0	40.6	54.0	-13.4

Notes:

- a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

# Radiated Emissions Test Data

Company: GVC

900Mz cordless phone; hand unit

Project #: J98038684 Test Mode: TX@low channel

CT-900 Model #: S/N or FCC not labeled Engineer: C.Kwan

Date of Test: 03/02/99

Pre-Amp OCF 4 12 ٥ Ω a Number Model: EMCO 314 Green\_M+L

Standard\_ Limits\_ 12 Test Distance meters

Frequency Reading Det. Ant. Pol. A							
MHz dB(uV) P/A/Q H/V	dB(1/m)	i dB ∷	dB	dB	dB(uV/m)	dB(uV/m)	dB
926.1 61.6 p v	20.9	0.0	0.0	0.0	82.5	94.0	-11.5

Notes:

- a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

# ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

# Radiated Emissions Test Data

Company: GVC EUT: 900Mz cordless phone; hand unit Project #: J98036684

Test Mode: TX@low channel

Model #: CT-900 S/N or FCC not labeled Engineer: C.Kwan Date of Test: 03/02/99

Antenna Pre-Amp Cab	
Number: 8 8 1	
Model: EMCO 311 CDI_P1000 Green	

Standard_	FCC Part 15.249
Limits_	12
Test Distance	3 meters

Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Amp	Insert Loss	D.F.	Net	Limit @3m	margin
MHz	dB(uV)	P/A/Q	HAV	dB(1/m)	dB	d₿	dB	dB(uV/m)	dB(uV/m)	dB
1843.8	32.1	Ð	h	24.7	29.3	1.9	0.0	29.4	54.0	-24.6
1843.8	30.6	a	h	24.7	29.3	1.9	0.0	27.9	54.0	-26.1
2778.3	39.6	p	h		28.4	2.3	0.0	41.6	74.0	-32.4
2778.3	37.0	8	'n		28.4	2.3	0.0	39.0	54.0	-15.0
	35.7		h		27.8	2.7	0.0	42.1	74.0	-32.0
3704.2		a	h	31.5	27.8	2.7	0.0	41.4	54.0	-12.6
3704.2	35.0	A STATE OF THE PARTY OF THE PAR			28.0	3.2	0.0	35.4	74.0	-38.6
4630.2	28.0	p	h	32.2	28.0	3.2	0.0	33.6	54.0	-20.4
4630.2	26.2	4	ħ	32.2		3.7	0.0	36.5	74.0	-37.5
5556.2	26,7	P	h	34.4	28.3			35.0	54.0	-19.0
5556.2	25.2	8	h	34.4	28.3	3.7	0.0		74.0	-34.3
6482.3	29.1	P	h		28.0	3.9	0.0	39.7		-16.3
6482.3	27.1	2	h	34.7	28.0	3.9	0.0	37.7	54.0	
7408.3	25.9	p	h	35.8	28.0	4.3	0.0	38.0	74.0	-36.0
7408.3	25.1	8	ħ	35.8	28.0	4.3	0.0	37.2	54.0	-16.8
8334.3	26.1	Ð	h	37.0	27.2	4.8	0.0	40.7	74.0	-33.3
8334.3	24.3	2	h	37.0	27.2	4.8	0.0	38.9	54.0	-15.1
9260.3	26.4		h	37.8	27.0	4.7	0.0	41.9	74.0	-32.1
9260.3	24.3	a	h	37.8	27.0	4.7	0.0	39.8	54.0	-14.2
3200.G	47.4				_,,_					

Notes:

- a) P. Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

k/../measheet/rad\_cal

Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

**ITS** Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

Limits\_

Radiated Emissions Test	Data		
Company: GVC EUT: 900Mz cordless phone; hand unit	Model #: S/N or FCC	CT-900 not labeled	$\hat{\mathcal{I}}$
Project #: J98036684	Engineer:	C.Kwan	//b/
Test Mode: TX@high channel	Date of Test	: 03/02/99	Initial(202
Antenna Pre-Amo Cable A Cable B OCF		Standard	FCC Part 15.249

Ŀ	Model EMCOS	) i a livone	Clesi W.T.	MOUR	TAOLIG		I ESC DISC	11 ICE	<u> </u>	HICIOIS	1
										www.nanananooooooooo	
- 8	Frequency Readir	sa Det.	Ant. Pol. /	unt Factor	Pre-Amp	insert Loss	D.F.	Net	Limit @3m	Margin	
	MHz dB(uV										
- 7					A A			00.0	04.0	44.7	
	927.9 61.4		0.0000000000000000000000000000000000000	20.9	0.0	0.0	0.0	82.3	94.0	-11.7	

927.9	61.4	p	<b>V</b>
	dalifikasi digilaktar	perindikan di	
	2:00:000:00:00:00:000:00		
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		1000100000000000000000	
			0.000
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A 14144 (1.414 (4.44) (4.44)			
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1,000,000,000,000,000,000,000			14.00.000.000.000.000.000.000.000
23.000.000			
		v: 201300110101011000	

Notes:

Number:

- a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

			Radiated	l Emissic	ns Tes	t Data				
Company: EUT: Project #: Test Mode	900Mz con		hand unit			Model #: S/N or FCC Engineer: Date of Test:	C.Kwan	led	Initiali.	4
	Antenna	Pre-Amp	Cable A	Cable B	OCF		Standard	i_	FCC Part 15.2	49
Number: Model:	8 EMCO 311	8 CDI_P1000	12 Green_M+L	0 None	0 None		Limits_ Test Dist	tance_	12 3	meters
Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Ams	insert. Loss	D.F.	Net	Limit @3m	Margin
MHz	dB(uV)	PIAIQ	HN	dB(1/m)	d₿	₫B		dB(uV/m)		dB
1855.9	34.2	P	٧	24.9	29.3	1.9	0.0	31.7	54.0	-22.3
1855,9	32.0		Y	24.9	29.3	1.9	0.0	29.5	54.0	-24.5
2783.8	39.2	P	٧	27.9	28.4	2.3	0.0	41.0	74.0	-33.0
2783.8	38.5	8	h	28.1	28.4	2.3	0.0	40.5	54.0	-13.5
3711.8	35.4	p	h	31.5	27.8	2.7	0.0	41.8	74.0	-32.3
3711.8 4639.8	35.0 26.5	<b>a</b>	ħ	31.5 32.2	27.8 28.0	2.7 3.2	0.0 0.0	41.4 33.9	54.0 74.0	-12.6 -40.1
4639.8	20.5 23.8	p a	h h	32.2	28.0	3.∠ 3.2	0.0	33.9 31.2	74.0 54.0	-40.1 -22.8
5567.8	25.0 26.9	D	H H	34.4	28.3	3.7	0.0	36.7	74.0	-37.3
5567.8	24.4		h	34.4	28.3	3.7	0.0	34.2	54.0	-19.8
6495.7	27.7	D	h	34.7	28.0	3.9	0.0	38.3	74.0	-35.7
6495.7	25.1	a	h	34.7	28.0	3.9	0.0	35.7	54.0	-18.3
7423.7	26.5	p	h	35.8	28.0	4.3	0.0	38.6	74.0	-35.4
7423.7	24.0	8	h	35.8	28.0	4.3	0.0	36.1	54.0	-17.9
8351.7	26.7	P	h	37.0	27.2	4.8	0.0	41.3	74.0	-32.7
8351.7	24.0		h	37.0	27.2	4.8	0.0	38.6	54.0	-15.4
9279.7	27,0	p	h	37.8	27.0	4.7	0.0	42.5	74.0	-31.5
9279.7	24.1		h	37.8	27.0	4.7	0.0	39.6	54.0	-14.4

- a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF:Other Correction Factor; DF:Distance Factor
- b) Insert. Loss = Cable A + Cable B + OCF.
- c) Negative signs (-) in Margin column signify levels below the limits.
- d) All other emissions not reported are below the equipment noise floor which is at least 20 dB below the limits.

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GVC Corp., 900 MHz Cordless Telephone

Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

FCC ID: DK4CT-900

# 3.5 Conducted Emission Data - See Exhibit 6A

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Results: Passed by 12.8 dB at 3.274MHz

Note: a) A complete scan from 0.45 - 30 MHz was made.

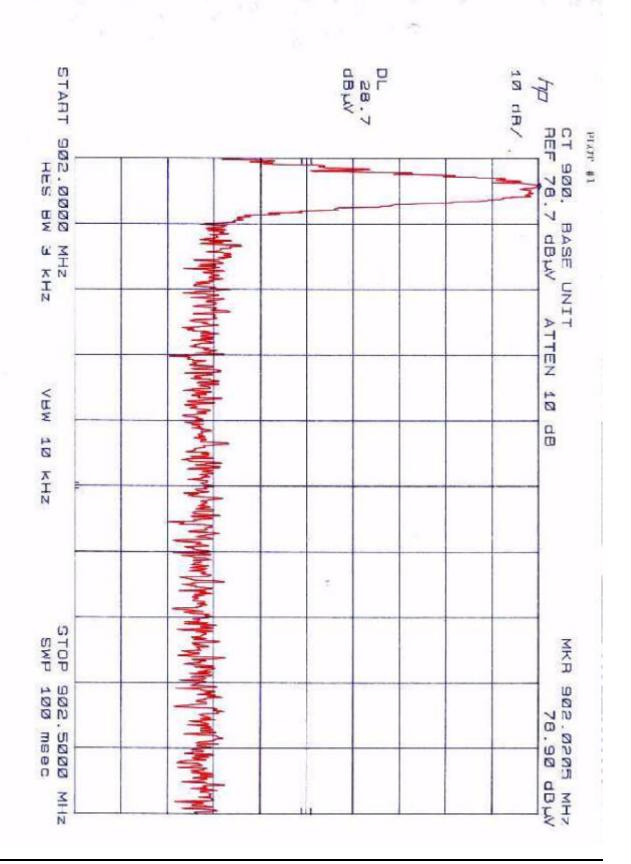
Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

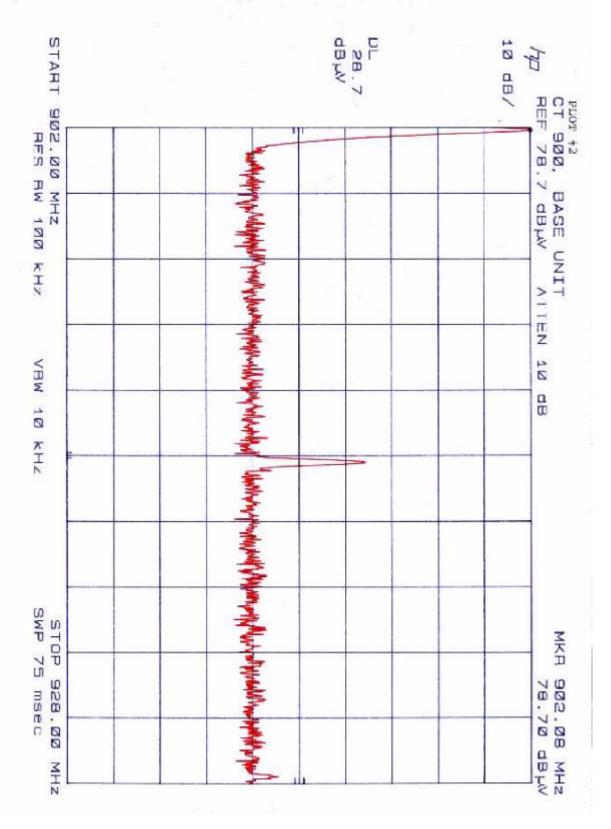
FCC ID: DK4CT-900

#### **Out of Band Emission Plot** 4.0

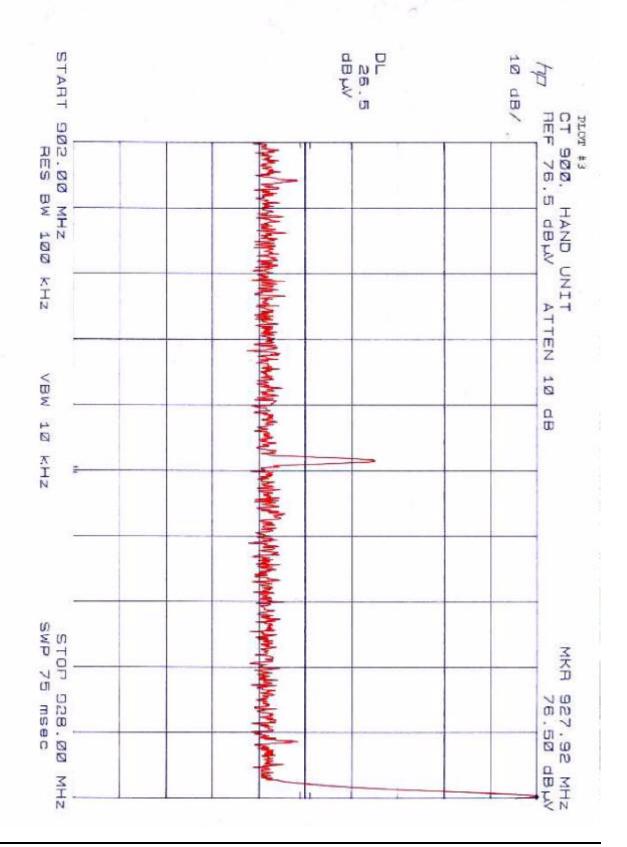
The following plots show the relative spurious emission level of the transmitter.

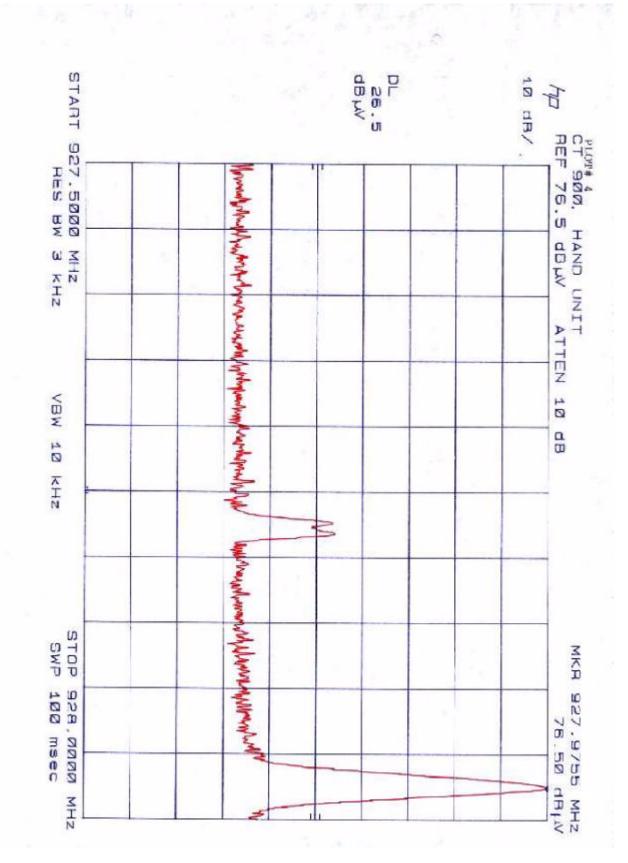
Plot #	Description
1	Base unit, low channel, 902 MHz to 902.5 MHz
2	Base unit, high channel, 902 MHz to 928 MHz
3	Hand unit, low channel, 902 MHz to 928 MHz
4	Hand unit, high channel, 927.5 MHz to 928 MHz





Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999





#### **Antenna Requirement** 5.0

~	The transmitter uses a permanently connected antenna.
	The antenna is affixed to the EUT using a unique connector which allows for replacement of a broken antenna, but does NOT use a standard antenna jack or electrical connector.
	The EUT requires professional installation. Please refer to the attached documentation for details).

Date of Test: Feb. 10, 1999 & March 1, 2, & 3, 1999

FCC ID: DK4CT-900

#### 6.0 **List of Exhibits**

**ID Label Format** Exhibit 1

Exhibit 2 **ID Label Location** 

**Equipment Photographs** Exhibit 3

**Block Diagram** Exhibit 4

Exhibit 5 **Circuit Diagram** 

Exhibit 6 **This Test Report** 

Exhibit 6a **Line Conducted Data** 

Exhibit 7 **Test Setup Photos** 

Exhibit 8 **Instruction Manual**