

Intertek Testing Services

GVC Corporation

900 MHz DSSS Cordless Telephone

Model: 39520

FCC ID: DK4CT9000

Job # J98026020

Pages 65to 72 of the Test Report

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Radiated Emissions Test Data

Company: Stanford
EUT: 900 MHz cordless phone (base unit)
Project #: J98026020
Test Mode: TX/low channel

Model #: IS-901 Digital Spread Spectrum
S/N or FCC: Not labelled
Engineer: Ahmad
Date of Test: 10/5/98
Initial: 1000

Number:	Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard		FCC Part 15.247	
						1 m/s	12 m/s	Test Distance	3 meters
	B	B	12	0	0				
Model:	EMCO 311	CDI	P1000	Green_M+L	None	None			

Frequency (MHz)	Reading (dB(uV))	Dir.	Ant. Pol.	Ant. Factor	Pre-Amp	Insert. Loss	D. F.	Net (dB(uV/m))	Limit @3m (dB(uV/m))	Margin (dB)
2712.8	45.0	A	V	27.9	28.4	2.3	0.0	46.8	54.0	-7.2
2712.8	50.0	P	V	27.9	28.4	2.3	0.0	51.8	74.0	-22.2
3616.8	51.0	H	H	31.5	27.8	2.7	0.0	57.4	74.0	16.7
3616.8	43.0	A	H	31.5	27.8	2.7	0.0	49.4	54.0	4.6
4521.3	51.0	P	V	32.1	27.9	3.2	0.0	58.4	74.0	15.6
4521.3	42.0	A	V	32.1	27.9	3.2	0.0	49.4	54.0	4.6
5425.3	45.0	P	H	32.9	28.3	3.5	0.0	53.1	74.0	-20.9
5425.3	41.2	A	H	32.9	28.3	3.5	0.0	44.3	54.0	4.7

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 dBm below the limits.

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Radiated Emissions Test Data

Company: Stanford
EUT: 900 MHz cordless phone (base unit)
Project #: J98026020
Test Mode: TX MID channel

Model #: IS-901 Digital Spread Spectrum
S/N or FCC: Not labelled
Engineer: Ahmad
Date of Test: 10/5/98

Number:	Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
	8	8	12	0	0	Limits	12
Model:	EMCO 311	COL P1000	Green	M+L	None	Test Distance	3 meters

Frequency MHz	Reading dB(uV)	Det P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1m)	Pre-Amp dB	Insert. Loss dB	D.F. dB	Net dB(uV/m)	Limit @3m dB(uV/m)	Margin dB
2743.0	45.0	A	V	27.9	28.4	2.3	0.0	46.8	54.0	7.2
2743.0	50.0	P	V	27.9	28.4	2.3	0.0	51.8	74.0	22.2
3658.0	44.0	P	V	31.3	27.8	2.7	0.0	50.2	74.0	23.8
3658.0	38.0	A	V	31.3	27.8	2.7	0.0	44.3	54.0	9.8
4572.0	42.8	P	V	32.1	27.9	3.2	0.0	50.2	74.0	23.8
4572.0	38.0	A	V	32.1	27.9	3.2	0.0	45.4	54.0	8.6
7315.0	40.0	P	V	36.3	28.0	4.3	0.0	52.1	74.0	21.4
7315.0	39.0	A	V	36.3	28.0	4.3	0.0	47.1	54.0	6.4
8228.0	44.0	P	V	36.9	27.2	4.8	0.0	58.5	74.0	15.5
8228.0	36.0	A	V	36.9	27.2	4.8	0.0	50.5	54.0	3.5

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.

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Project/Model: J98026020 Radiated Emissions Test Data

Company: Stanford
EUT: 900 MHz cordless phone (base unit)
Project #: J98026020
Test Mode: TX/ high channel

Model #: IS-901 Digital Spread Spectrum
S/N or FCC: Not labelled
Engineer: Ahmad
Date of Test: 10/5/98

Initial:

Number:	Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard	FCC Part 15.247
	8	8	12	0	0	12	

Frequency (MHz)	Reading (dB(uV))	Det. (P/A/Q)	Ant. Pol. (H/V)	Ant. Factor (dB(1m))	Pre-Amp (dB)	Insert. Loss (dB)	D.F. (dB)	Not. (dB(uV/m))	Limit @3m (dB(uV/m))	Margin (dB)
2776.7	44.0	P	H	28.1	28.4	2.3	0.0	46.0	74.0	-26.0
2776.7	38.0	A	H	28.1	28.4	2.3	0.0	40.0	94.0	-14.0
3703.0	50.0	P	V	31.3	27.8	2.7	0.0	56.2	74.0	-17.8
3703.0	44.0	A	V	31.3	27.8	2.7	0.0	50.2	94.0	-3.8
4629.0	47.0	P	V	32.1	28.0	3.2	0.0	54.3	74.0	19.7
4629.0	43.0	A	V	32.1	28.0	3.2	0.0	50.3	94.0	3.7
7406.0	45.0	P	V	35.3	28.0	4.3	0.0	47.0	74.0	19.4
7406.0	35.0	A	V	35.3	26.0	4.3	0.0	47.6	94.0	6.4
8332.1	42.0	P	V	36.9	27.2	4.6	0.0	54.1	74.0	17.5
8332.1	36.0	A	V	36.9	27.2	4.6	0.0	49.1	94.0	4.5

Notes: a) P: Peak, A: Average, Q: Quasi-Peak, H: Horizontal, V: Vertical, OCF: Other Correction Factor, D.F: 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.

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Radiated Emissions Test Data

Company: Stanford
EUT: 900 MHz cordless phone (handset)
Project #: J98026020
Test Mode: TX/low channel

Model #: IS-801 Digital Spread Spectrum
S/N or FCC: Not labelled
Engineer: Ahmed
Date of Test: 10/5/98

Number: Model:	Antenna B	Pre-Amp B	Cable A 12	Cable B 0	OCF 0	Standard Limits	FCC Part 15.247 12			
	EMCO 311	CDI_P10XX	Green_M+L	None	None					
2712.0	55.0	P	H	28.1	28.4	2.3	0.0	57.0	74.0	-17.0
2712.0	48.0	A	H	28.1	28.4	2.3	0.0	50.0	64.0	4.0
3616.8	51.0	P	H	31.5	27.8	2.7	0.0	57.4	74.0	10.7
3616.8	42.0	A	H	31.5	27.8	2.7	0.0	48.4	54.0	5.6
4520.8	45.0	P	H	32.2	27.9	3.2	0.0	52.5	74.0	21.5
4520.8	41.0	A	H	32.2	27.9	3.2	0.0	48.4	54.0	5.6
7233.0	40.0	P	H	35.8	28.0	4.5	0.0	52.1	74.0	21.9
7233.0	38.1	A	H	35.8	28.0	4.5	0.0	48.2	54.0	5.6

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

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Radiated Emissions Test Data

Company:	Stanford	Model #:	IS-901 Digital Spread Spectrum							
EUT:	900 MHz cordless phone (handset)	S/N or FCC:	Not labeled							
Project #:	J98026020	Engineer:	Ahmad							
Test Mode:	TX/MID channel	Date of Test:	10/5/98							
Number:	8	Standard:	FCC Part 15.247							
Module:	EMCO 311 CDR_P1000 Green_M+L	Units:	12							
		Test Distance:	3 meters							
Frequency	Reading	Det.	Ant. Pot.	Ant. Factor	Pre-Amp	Insert. Loss	D. F.	Net	U.Limit @3m	Margin
MHz	dB(uV)	P/A/Q	H/V	dB(m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB
2743.6	52.0	P	H	28.1	28.4	2.3	0.0	54.0	74.0	20.0
2743.6	47.0	A	H	28.1	28.4	2.3	0.0	49.0	64.0	15.0
3657.0	49.0	P	V	31.3	27.8	2.7	0.0	55.2	74.0	18.8
3657.0	42.0	A	V	31.3	27.8	2.7	0.0	49.2	64.0	15.0
4571.9	48.0	P	H	12.2	27.9	3.2	0.0	50.5	74.0	23.5
4571.9	41.0	A	H	12.2	27.9	3.2	0.0	49.5	64.0	15.0
7316.0	42.0	P	H	35.5	26.0	4.3	0.0	54.1	74.0	19.9
7316.0	35.0	A	H	35.5	28.0	2.2	0.0	47.1	54.0	6.0

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

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Radiated Emissions Test Data

Company: Stanford	Model #:	IS-901 Digital Spread Spectrum
EUT: 900 MHz cordless phone (hand set)	S/N or FCC:	N/A
Project # J98026020	Engineer:	C. Kwan
Test Mode: stand by	Date of Test:	09/30/98
		Initial

Number:	Antenna	Pre-Amp	Cable A	Cable B	OCF	Standard		FCC Part 15B	
						Limits	Test Distance	2	3

Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Amp	Insert. Loss	D. F.	Nel	Limit @3m	Margin
MHz	dB(µV)	P/A/Q	H/V	dB(1/m)	dB	dB	dB	dB(µV/m)	dB(µV/m)	dB
277.2	32.6	P	V	11.4	35.1	2.9	0.0	11.8	46.0	-34.2
419.2	31.7	P	V	15.1	34.9	4.3	0.0	16.2	46.0	-29.8
543.2	37.6	P	V	17.1	34.8	5.3	0.0	25.2	46.0	-20.8
628.2	31.2	P	V	18.0	35.2	5.4	0.0	19.9	46.0	-26.1
704.7	31.1	P	V	19.3	36.1	6.6	0.0	20.9	46.0	-25.1
780.2	38.5	P	V	19.7	36.1	7.2	0.0	29.3	46.0	-16.7
837.7	30.1	P	V	20.9	28.4	8.2	0.0	30.8	46.0	-15.2
866.2	30.3	P	V	20.3	27.5	6.7	0.0	31.8	46.0	-14.2

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

ITS Intertek Testing Services

1365 Adams Court, Menlo Park CA 94025

Radiated Emissions Test Data

Company: Stanford
EUT: 900 MHz cordless phone (base unit)
Project #: J98026020
Test Mode: stand by

Model #: IS-901Digital Spread Spectrum
S/N or FCC N/A
Engineer: C. Kwan
Date of Test: 09/29/98 Initial:

Antenna Number:	Pre-Amp	Cable A	Cable B	OCF	Standard Limits	FCC Part 15B
1 Model: EMCO 314	7 CPPA_102	13 S2_3m	0 None	0 None	2 3	meters

Frequency MHz	Reading dB(uV)	Det. P/A/Q	Ant. Pol. H/V	Ant. Factor dB(1/m)	Pre-Amp dB	Insert. Loss dB	D. F. dB	Net dB(uV/m)	Limit @3m dB(uV/m)	Margin dB
144.2	30.5	P	V	8.2	35.3	2.1	0.0	5.5	43.5	-38.0
315.2	30.4	P	V	12.9	34.9	3.1	0.0	11.5	46.0	-34.5
486.2	30.4	P	V	16.4	35.0	5.0	0.0	16.9	46.0	-29.2
505.2	30.1	P	V	16.5	34.8	5.3	0.0	17.1	46.0	-28.9
657.2	30.5	P	V	18.4	35.2	6.3	0.0	20.1	46.0	-25.9
885.2	30.2	P	V	20.9	27.5	8.7	0.0	32.3	46.0	-13.7
904.2	31.0	P	V	21.0	29.1	8.3	0.0	31.3	46.0	-14.8
942.2	31.0	P	V	20.9	29.1	8.3	0.0	31.2	46.0	-14.9

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.

ITS Intertek Testing Services

1365 Adams Court, Menlo Park, CA 94025

Radiated Emissions Test Data

Company: Stanford
EUT: 900 MHz cordless phone (base unit)
Project #: J98026020
Test Mode: stand by

Model #: IS-901Digital Spread Spectrum
SN or FCC: N/A
Engineer: C Kwan
Date of Test: 09/29/98
Initial:

Number:	Antenna	Pre Amp	Cable A	Cable B	OCF	Standard		FCC Part 15B	
						Limits	Test Distance	2	3 meters
Frequency	Reading	Det.	Ant. Pol.	Ant. Factor	Pre-Amp	Insert. Loss	D. F.	Net	Limit @3m
MHz	dB(uV)	PI/AQ	uV	dB(1/m)	dB	dB	dB	dB(uV/m)	dB
144.2	30.5	p	v	8.2	35.3	2.1	0.0	5.5	43.5
315.2	30.4	p	v	12.9	34.9	3.1	0.0	11.5	46.0
486.2	30.4	p	v	16.4	35.0	5.0	0.0	16.9	46.0
505.2	30.1	p	v	15.5	34.8	5.3	0.0	17.1	46.0
657.2	30.5	p	v	18.4	35.2	6.3	0.0	20.1	46.0
886.2	30.2	p	v	20.9	27.5	8.7	0.0	32.1	46.0
904.2	31.0	p	v	21.0	29.1	8.3	0.0	31.3	46.0
942.2	31.0	p	v	20.9	29.1	8.3	0.0	31.2	46.0

Notes: a) P: Peak; A: Average; Q: Quasi Peak; H: Horizontal; V: Vertical; OCF: Other Correction Factor; D.F: 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.