



Test Report: 4W30055

Applicant: VTech Engineering Canada Ltd.
Suite 200 – 7671 Alderbridge Way
Richmond, B.C., Canada V6X 1Z9

**Equipment Under Test:
(EUT)** VTech Phoenix i5871
5.8GHz Digital Frequency Hopping Spread Spectrum
Cordless Telephone

FCC ID:

In Accordance With: **FCC Part 15.247, Subpart C**
FHSS System and Digitally Modulated Radiators
5725-5850MHz

Tested By: Nemko Canada Inc.
303 River Road, R.R. 5
Ottawa, Ontario K1V 1H2

A handwritten signature in blue ink that reads "Glen Westwell".

Authorized By: Glen Westwell, Wireless Specialist

Date: 28 October 2004

Total Number of Pages: 47

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FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Section 1. Summary of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C. Radiated tests were conducted in accordance with ANSI C63.4-2001. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

TESTED BY: Kevin Carr, EMC/EMI/Wireless Specialist

DATE: 28 October 2004

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This report applies only to the items tested.

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FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Summary Of Test Data

Name Of Test	Para. No.	Result
Powerline Conducted Emissions	15.207(a)	Complied
6dB Bandwidth	15.247(a)(2)	Complied
20 dB Bandwidth	15.247(a)(1)(ii)	Complied
Number of Hopping Channels	15.247(a)(1)(ii)	Complied
Occupancy Time	15.247(f)	Complied
Minimum Channel Separation	15.247(a)(1)	Complied
Peak Output Power	15.247(b)(1)	Complied
Spurious Emissions (Radiated)	15.247(c)	Complied

Test Conditions:

Indoor Temperature: 23°C
 Humidity: 48%

Outdoor Temperature: 5°C
 Humidity: 42%

Section 2. General Equipment Specification

Manufacturer: VTech (Dongguan) Electronics and Communications Ltd.

Model/Serial No. of EUT **Base:** M/N: i5871, S/N: None
 Handset: M/N: i5871, S/N: HS2

Date Received In Laboratory: 23 Sept. 2004

Nemko Identification No.: 1, 2, 3, 4, 5, 6, 7, 8

Frequency Band of Operation: 5725-5850MHz

Frequency Range of EUT: 5744.736 MHz – 5825.952 MHz

Peak Output Power (measured): Handset: 21.6dBm
 Base: 29.5dBm

Number of Hopping Channels: 95 available (75 chosen for hopping)

Channel Spacing: 864kHz

Modulation: GFSK

Antenna Gain(s): Handset = 0dBi
 Base = 2.2dBi

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Equipment Configuration List				
Item	Description	Identification: (M/N #, S/N #, P/N #, Rev.)		
(A)	Base	i5871, S/N: None		
(B)	Handset	i5871, S/N: None		
(C)	DC Feed & Ring-up Unit	FA000249		
(D)	GPE Sw. Mode Psu	M/N: GPE-838-07100, S/N: None		
• (E)	Headset			
EUT Ports				
Item	Description	Indoor/Outdoor	Type (See Legend)	Qty
1	I/P Pwr	Indoor	2	1
2	POTS	Indoor	3	1
3	Headset	Indoor	4	1
4	USB	Indoor	4	1
Inter-Connection Cables				
Item	Description	Shielded	Ferrite	Length (m)
i.	22AWG2C	No	No	2.0
ii.	4 Cond. RJ-11, 300-840SL	No	No	2.0
iii.	3 Cond. headset	Yes	No	1.0
iv.	USB, AWM-E101344	Yes	Yes	2.0
Legend:				
1 = AC Power Input/Output, 2 = DC Power Input/Output, 3 = Telecom, 4 = Non-telecom I/O, 5 = Maintenance, 6 = Fiber Optic				
Notes				
None/Comments				
Configuration of the Equipment Under Test (EUT)				
<p>The diagram illustrates the configuration of the Equipment Under Test (EUT). It consists of five main components labeled A, B, C, D, and E. Component A is a large rectangular block with two ports: port 1 (top-left) and port 2 (bottom). Port 1 is connected via a line labeled (i) to component D, which is a small rectangle labeled '120VAC, 60Hz'. Port 2 is connected via a line labeled (ii) to component C, which is another small rectangle labeled '120VAC, 60Hz'. Component B is a rectangular block with two ports: port 3 (top-right) and port 4 (bottom-right). Port 3 is connected via a line labeled (iii) to component E, which is a small rectangle. Port 4 is connected via a line labeled (iv) to component C. Component C is a small rectangle located below component B.</p>				

Section 3. Powerline Conducted Emissions**Para. No.: 15.207(a)**

Test Performed By: Kevin Carr	Date of Test: 30 Sept. 2004
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Test Results: Pass

General		
These tests were conducted using measurement procedures of ANSI C63.4-2001. The equipment was tested for conducted emissions from 0.15MHz to 30MHz using a 50 microhenry line impedance stabilization network (L.I.S.N.) as described in ANSI C63.4-2001. Peripheral equipment was also operated through a 50 microhenry L.I.S.N.		
Limits For Conducted Disturbance At The Mains Ports: Paragraph No. 15.107 for Class B		
Frequency Range MHz	Quasi-Peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50
Notes		
1. The lower limit shall apply at the transition frequency. 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50MHz.		

Measurement Data: See attached graph(s) and tabulated data

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Phase

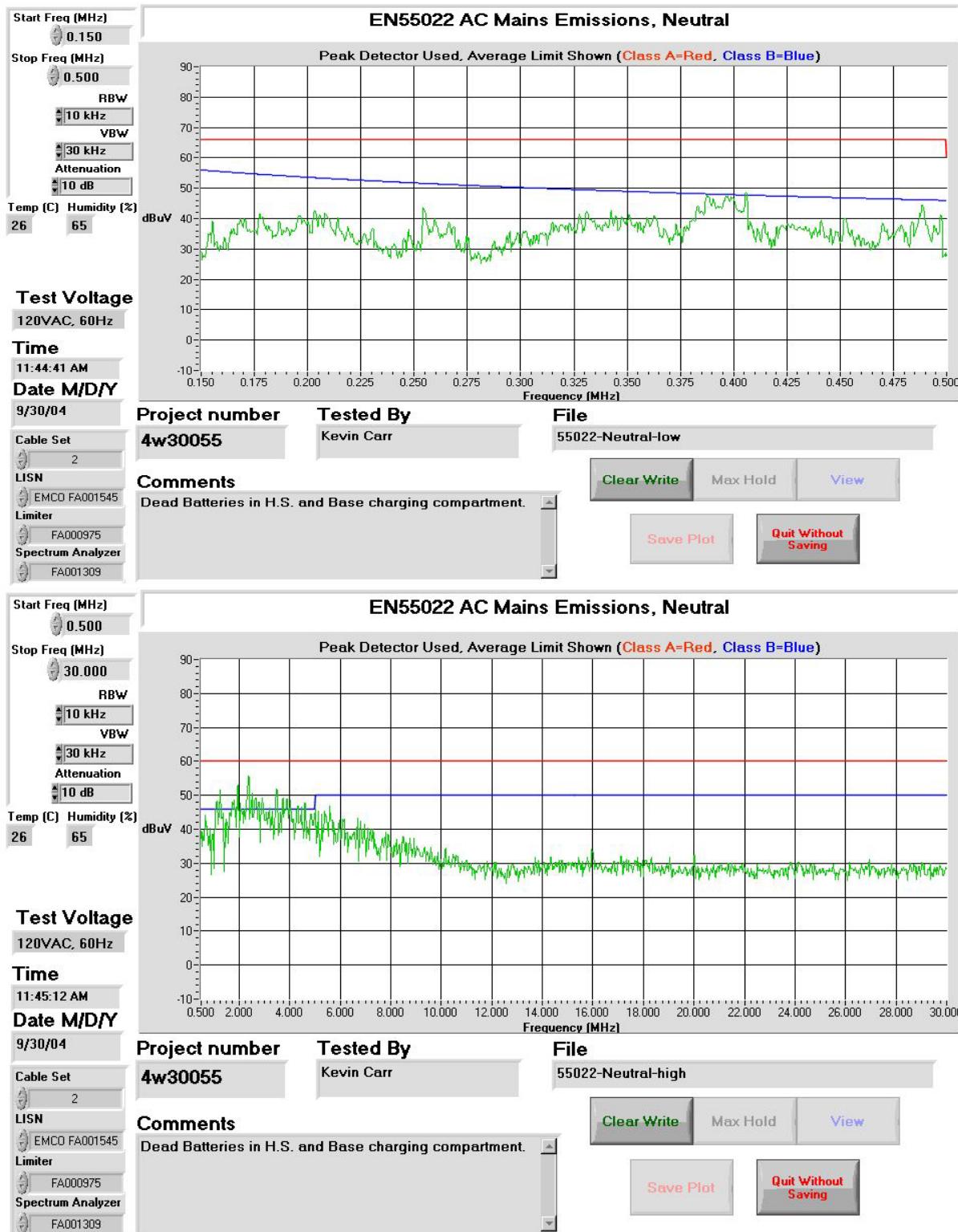
No.	Frequency of Emission (MHz)	Detector	Emission Level (dBuV)	LISN Loss (dB)	Cable Loss (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.3900	Quasi-Peak	45.1	0	0	45.1	58.1	13.0
		Average	28.7	0	0	28.7	48.1	19.4
2	0.4000	Quasi-Peak	41.1	0	0.2	41.3	57.9	16.6
		Average	32	0	0.2	32.2	47.9	15.7
3	1.7500	Quasi-Peak	47.5	0.1	0	47.6	56.0	8.4
		Average	26.3	0.1	0	26.4	46.0	19.6
4	2.0000	Quasi-Peak	42.3	0.1	0	42.4	56.0	13.6
		Average	34.4	0.1	0	34.5	46.0	11.5
5	2.5000	Quasi-Peak	45.1	0.1	0	45.2	56.0	10.8
		Average	33.4	0.1	0	33.5	46.0	12.5
6	3.0000	Quasi-Peak	41.4	0.1	0.2	41.7	56.0	14.3
		Average	29.1	0.1	0.2	29.4	46.0	16.6
7	3.5000	Quasi-Peak	43.3	0.1	0.2	43.6	56.0	12.4
		Average	30.9	0.1	0.2	31.2	46.0	14.8
8	4.0000	Quasi-Peak	42.4	0.1	0	42.5	56.0	13.5
		Average	26	0.1	0	26.1	46.0	19.9
9	4.5000	Quasi-Peak	42	0.1	0.2	42.3	56.0	13.7
		Average	31.4	0.1	0.2	31.7	46.0	14.3
10	5.0000	Quasi-Peak	40.6	0.1	0.2	40.9	60.0	19.1
		Average	30.7	0.1	0.2	31	50.0	19.0
11	5.5000	Quasi-Peak	39.4	0.2	0.4	40	60.0	20.0
		Average	29.2	0.2	0.4	29.8	50.0	20.2

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

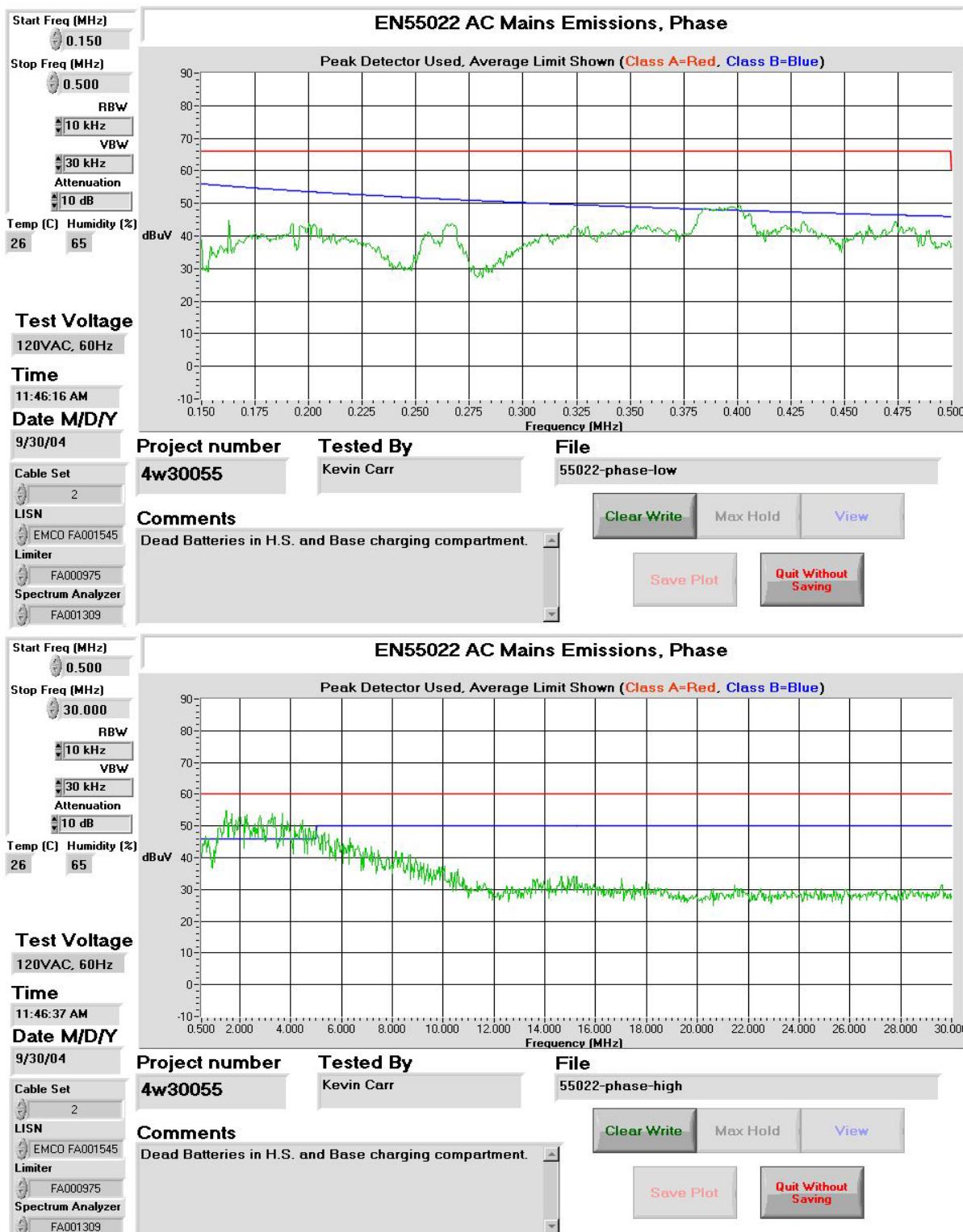
Neutral

No.	Frequency of Emission (MHz)	Detector	Emission Level (dBuV)	LISN Loss (dB)	Cable Loss (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)
1	0.3800	Quasi-Peak	28.9	0.1	0.2	29.2	58.3	29.1
		Average	9.4	0.1	0.2	9.7	48.3	38.6
2	0.4000	Quasi-Peak	42.1	0.1	0.2	42.4	57.9	15.5
		Average	24	0.1	0.2	24.3	47.9	23.6
3	0.4100	Quasi-Peak	32.3	0.1	0.2	32.6	57.6	25.0
		Average	14.3	0.1	0.2	14.6	47.6	33.0
4	1.7500	Quasi-Peak	44.2	0.1	0	44.3	56.0	11.7
		Average	28.3	0.1	0	28.4	46.0	17.6
5	2.0000	Quasi-Peak	42.3	0.1	0	42.4	56.0	13.6
		Average	30.7	0.1	0	30.8	46.0	15.2
6	2.5000	Quasi-Peak	42.5	0.1	0	42.6	56.0	13.4
		Average	28.9	0.1	0	29	46.0	17.0
7	3.0000	Quasi-Peak	39.1	0.1	0.2	39.4	56.0	16.6
		Average	27.1	0.1	0.2	27.4	46.0	18.6
8	3.5000	Quasi-Peak	40.9	0.1	0.2	41.2	56.0	14.8
		Average	20.4	0.1	0.2	20.7	46.0	25.3
9	4.0000	Quasi-Peak	40.5	0.1	0	40.6	56.0	15.4
		Average	28	0.1	0	28.1	46.0	17.9
10	4.5000	Quasi-Peak	39.3	0.1	0.2	39.6	56.0	16.4
		Average	28	0.1	0.2	28.3	46.0	17.7
11	5.0000	Quasi-Peak	39.2	0.1	0.2	39.5	60.0	20.5
		Average	27.9	0.1	0.2	28.2	50.0	21.8
12	5.5000	Quasi-Peak	37.5	0.2	0.4	38.1	60.0	21.9
		Average	27.2	0.2	0.4	27.8	50.0	22.2

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone



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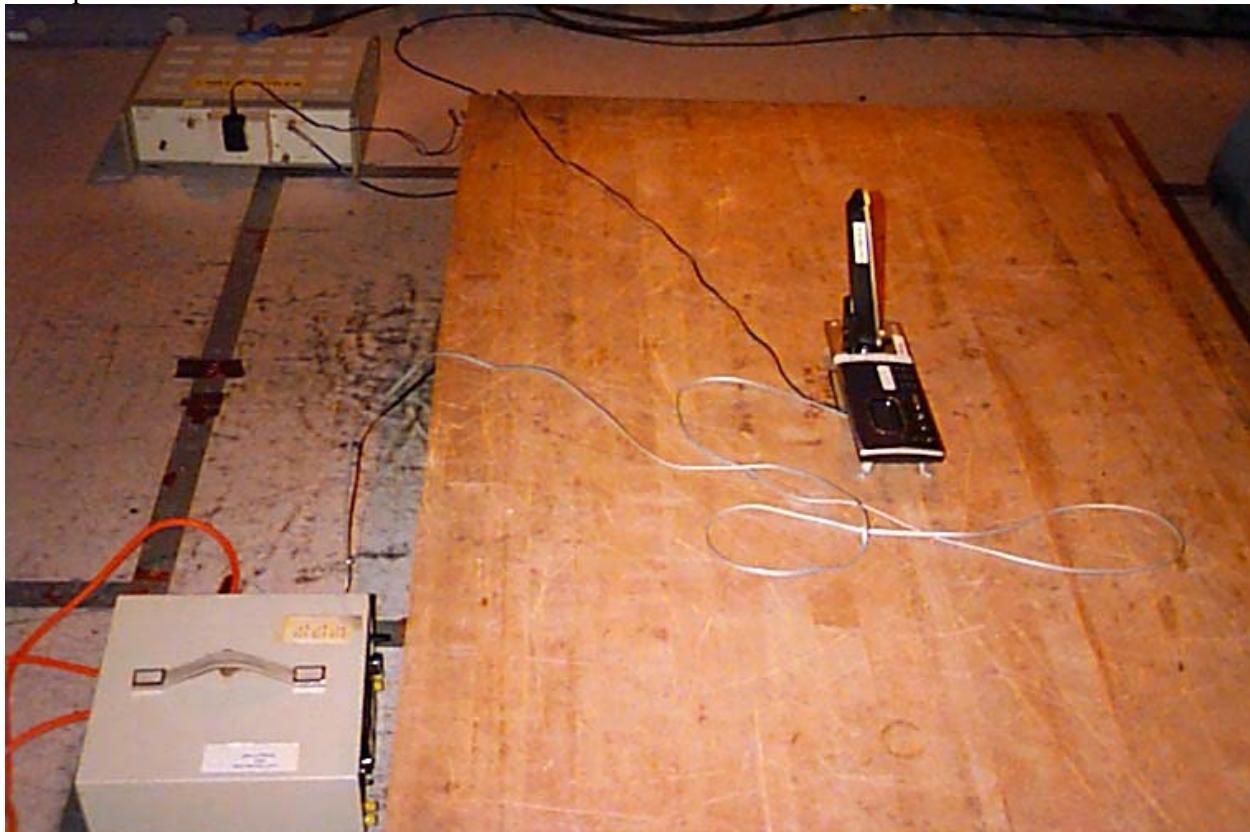


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Set-up Photo



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Section 4. 20 dB Bandwidth

Para. No.: 15.247(a) (1)(ii)

Test Performed By: Kevin Carr	Date of Test: 1 Oct 2004
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Limit: $\leq 1\text{MHz}$

Measurement Data: See Plots

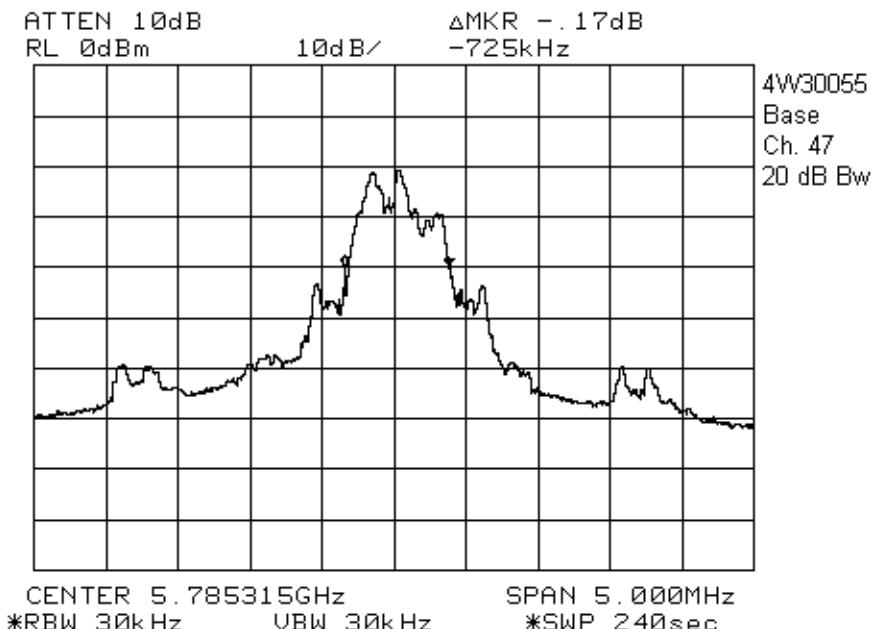
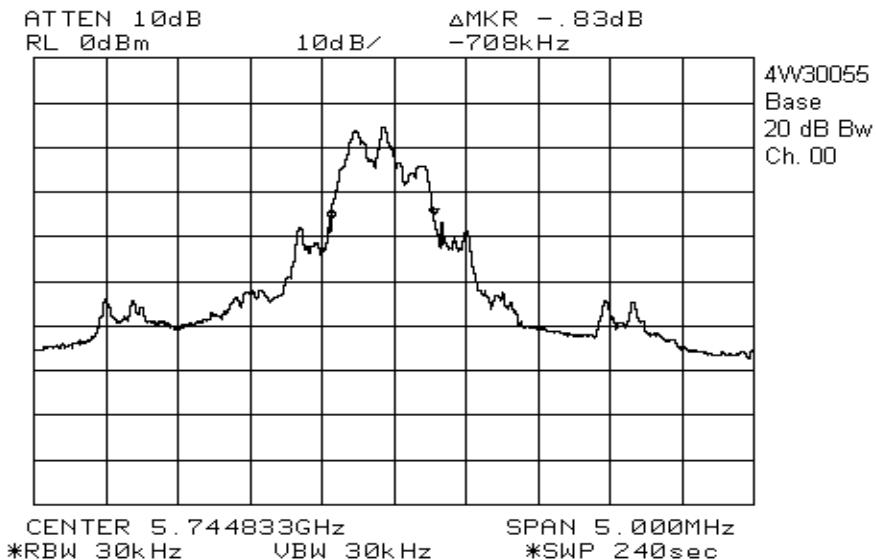
20dB BW (kHz)	Ch. 00	Ch. 47	Ch. 94
Base	708	725	692
Handset	717	717	708

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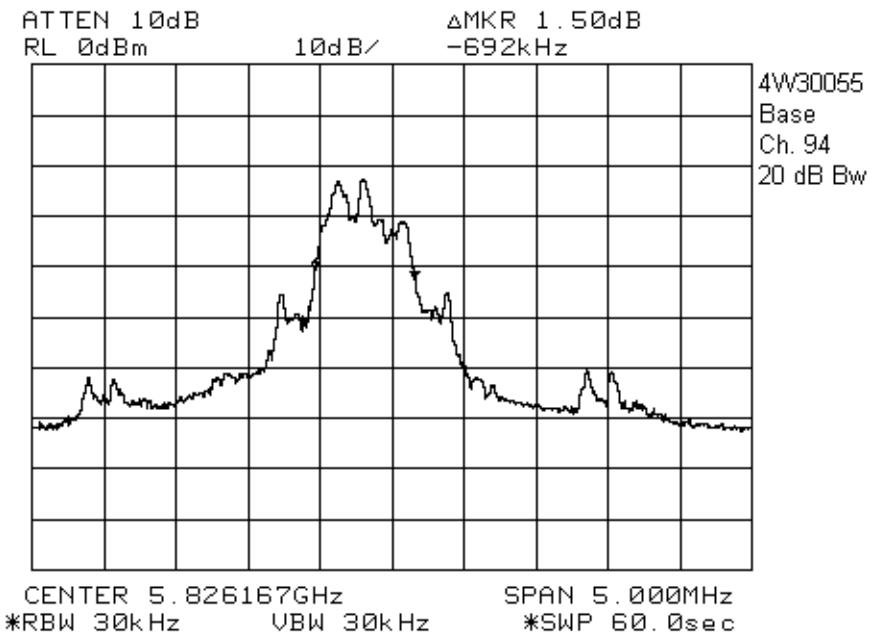
Base



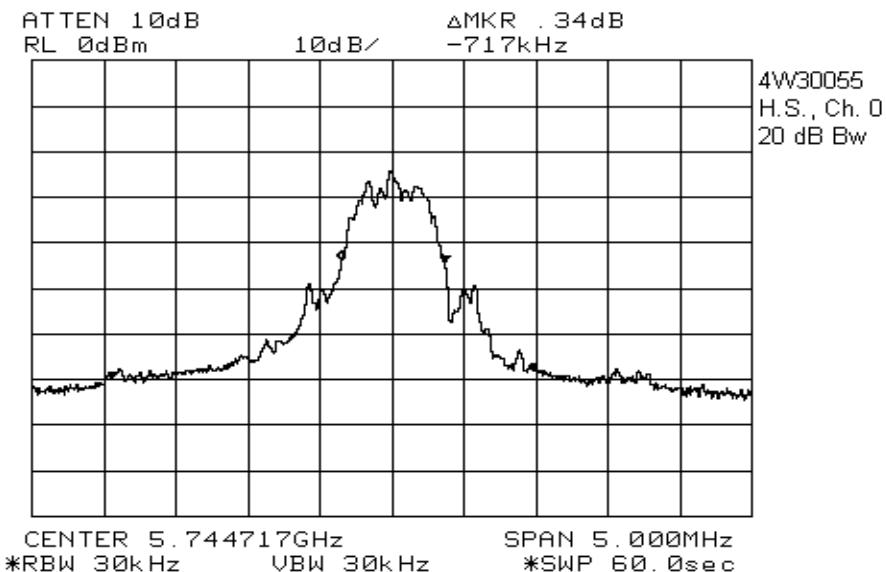
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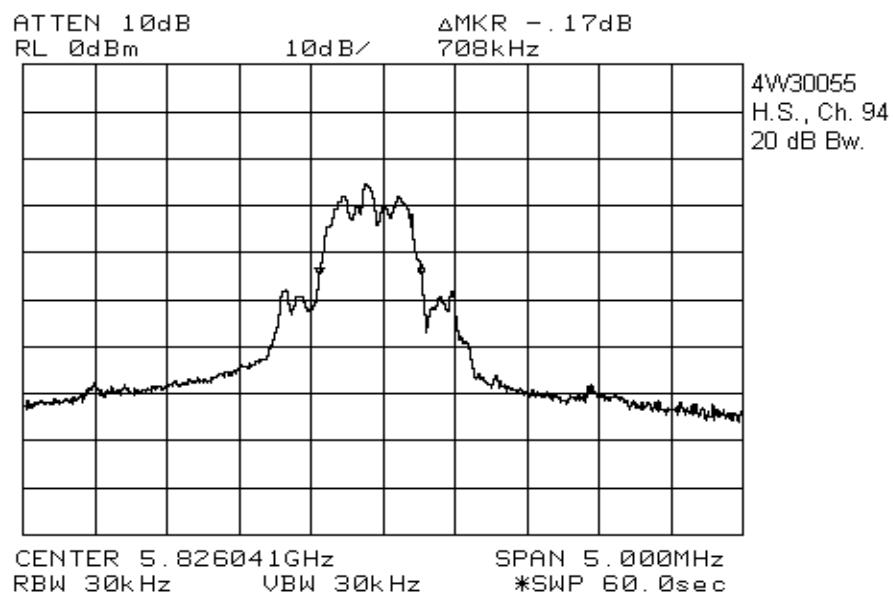
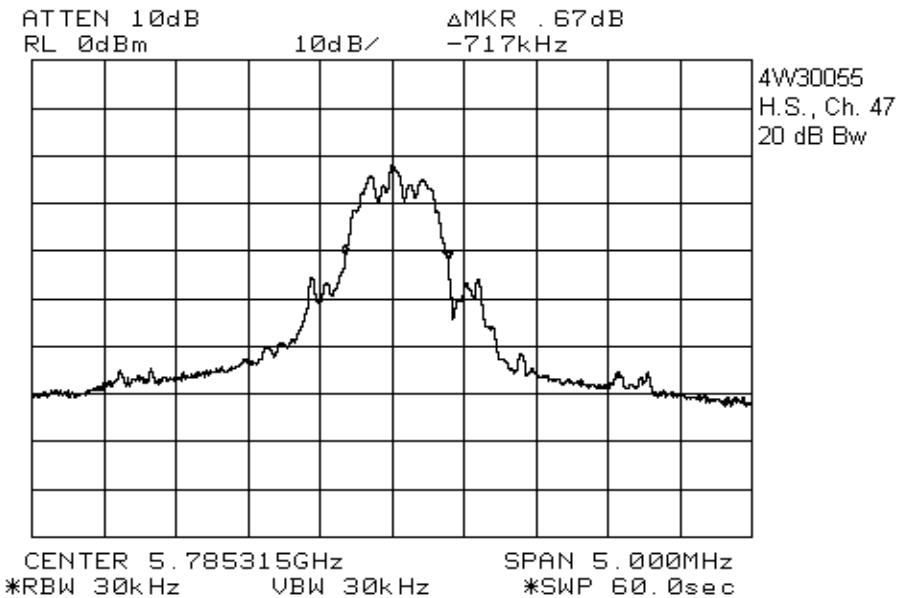
Handset



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Section 5. Occupancy Time

Para. No.: 15.247(a)(1)(ii)

Test Performed By: Kevin Carr	Date of Test: 1 Oct 2004
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Limit: 400mS/30sec

Measurement Data: See Plots

Handset = 40mS/30S

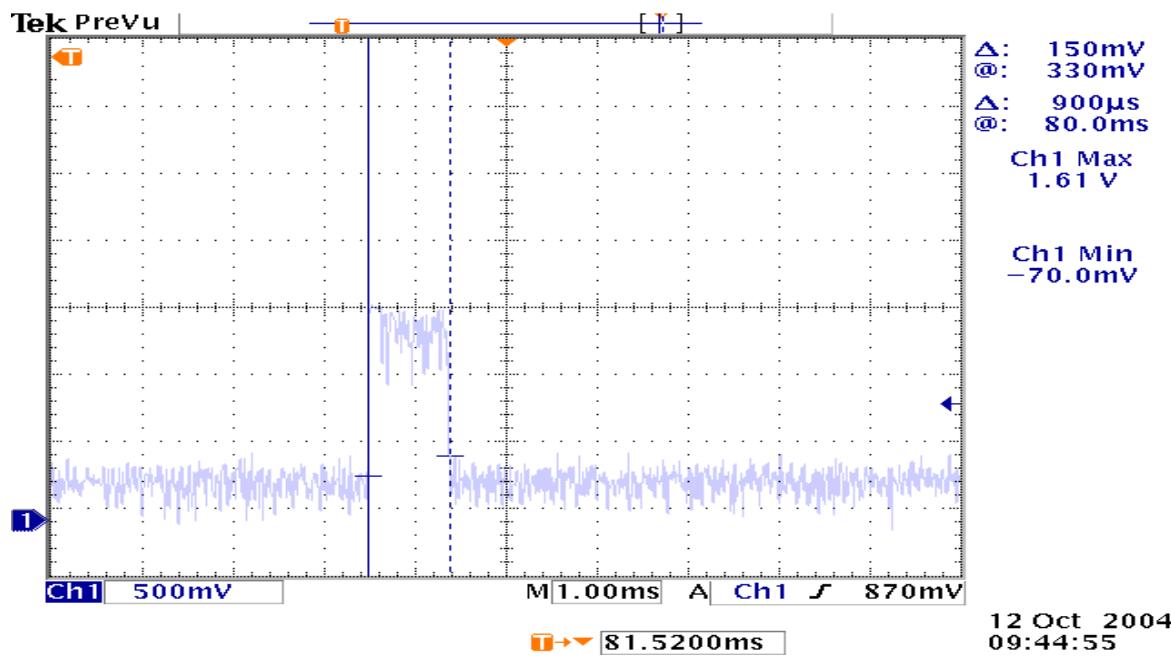
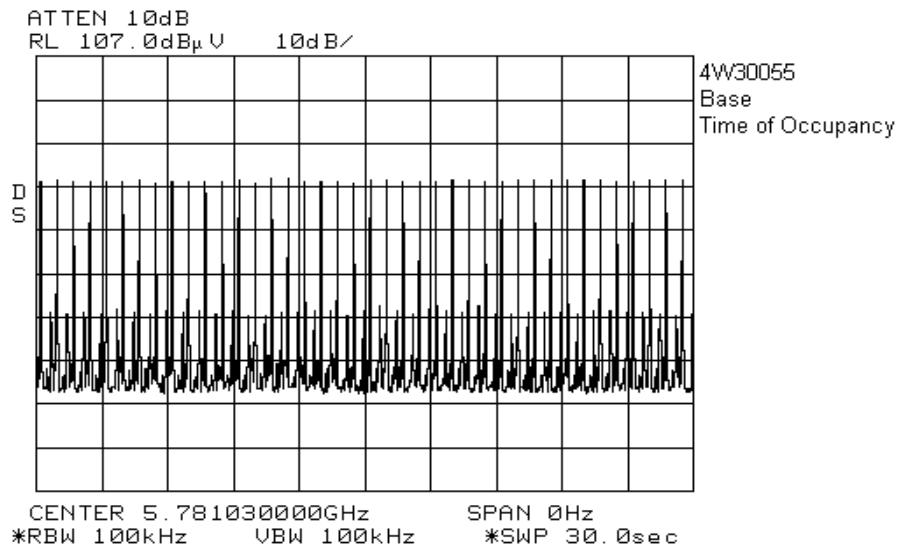
Base = 36mS/30S

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Base



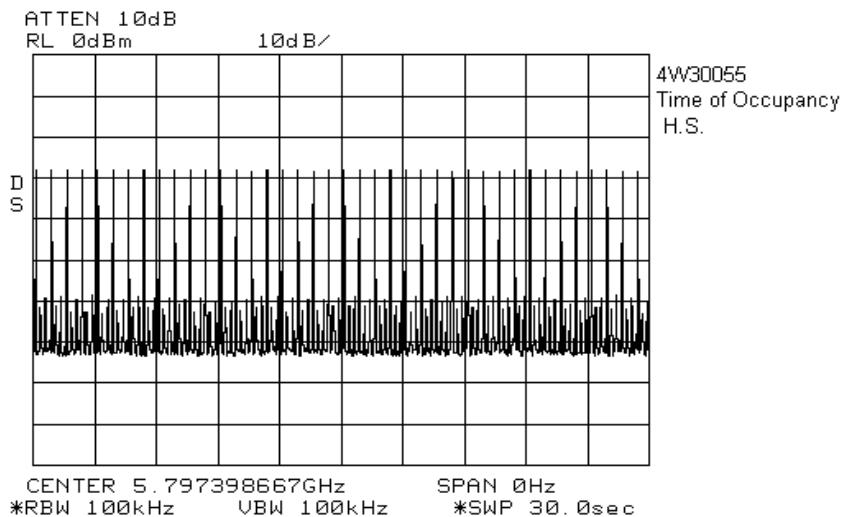
$$T \text{ of } O = 40 \times 900\mu\text{s} = 36\text{ms}$$

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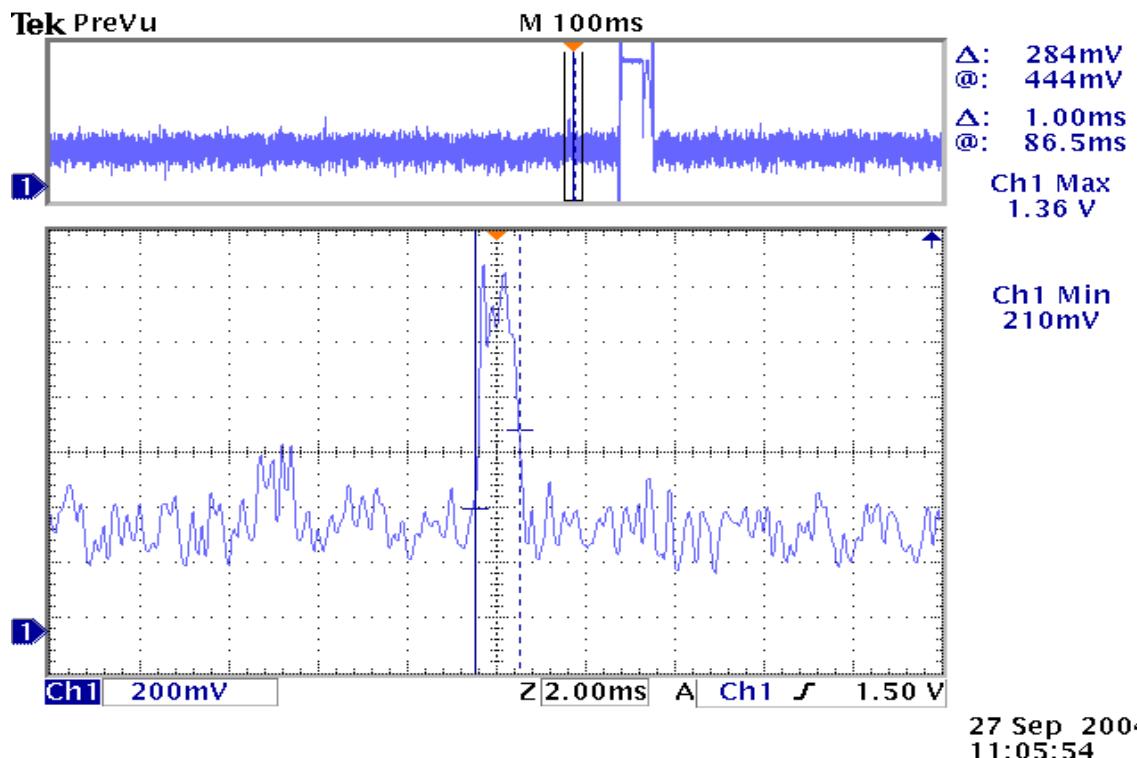
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Handset



Tek PreVu



T of O = 40x1mS = 40mS

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Section 6. Number of Hopping Channels

Para. No.: 15.247(a)(1)(ii)

Test Performed By: Kevin Carr	Date of Test: 4 Oct 2004
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Limit: Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

Measurement Data: See Plot(s)

Base = 75

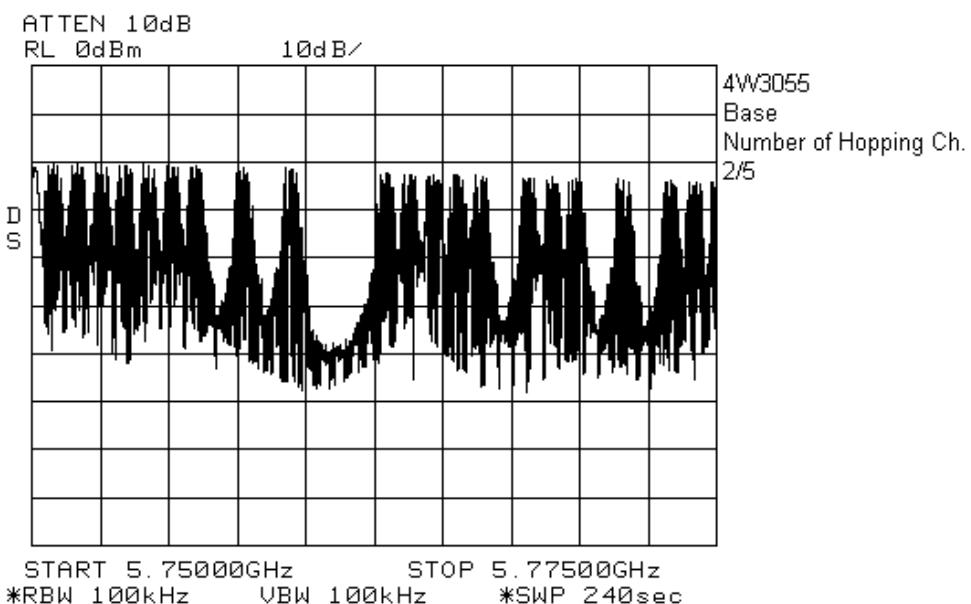
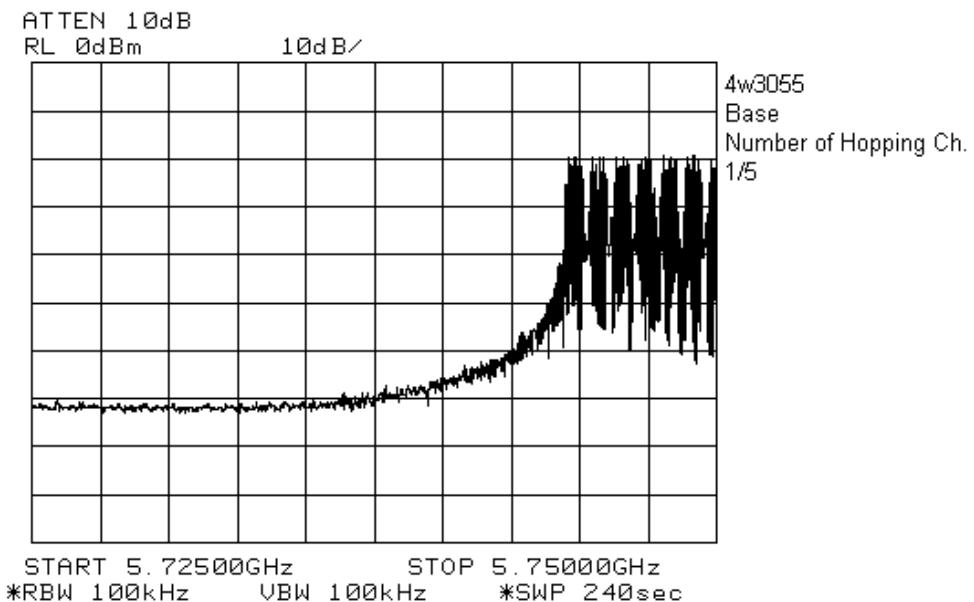
Handset = 75

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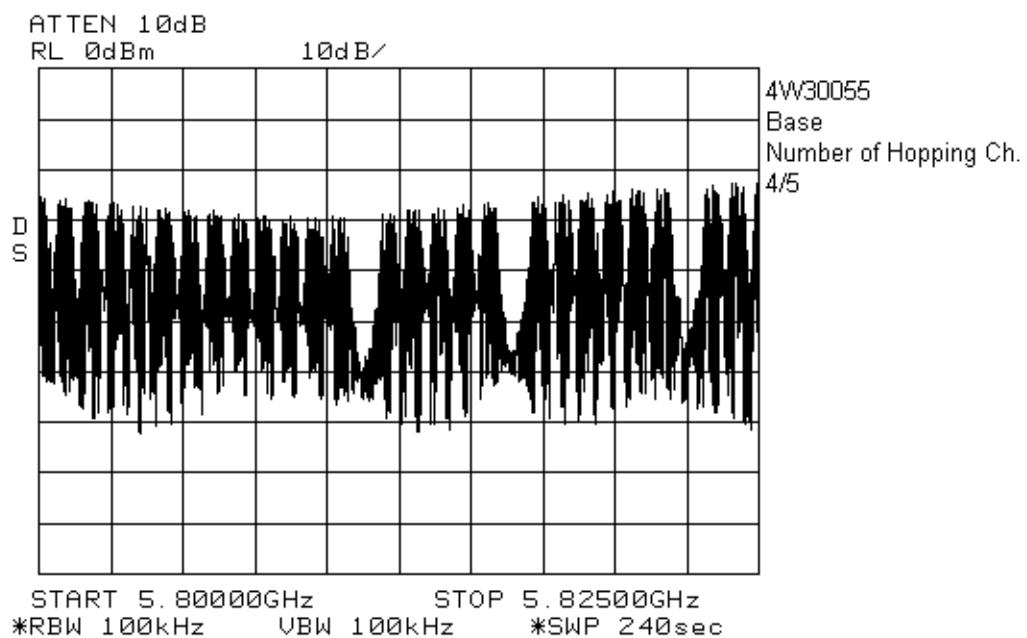
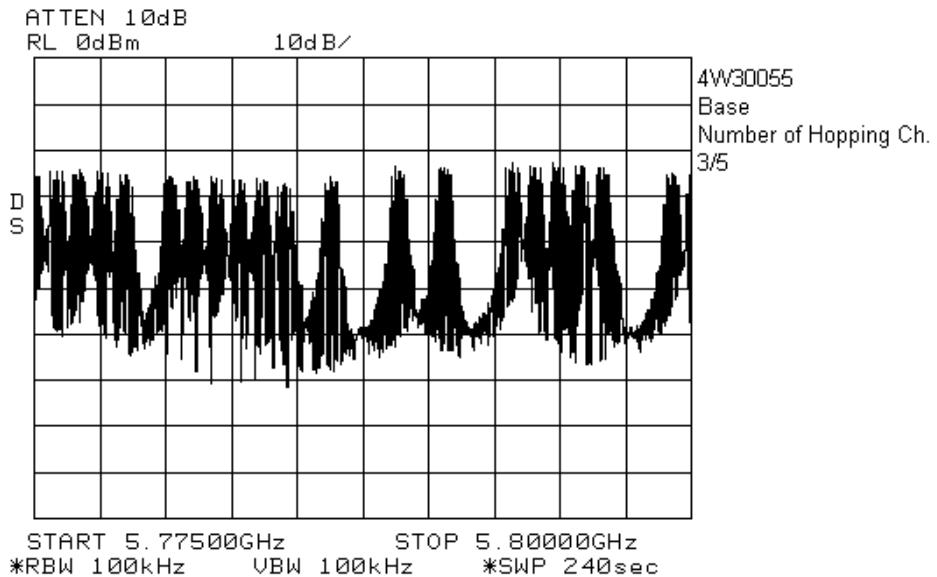
Base



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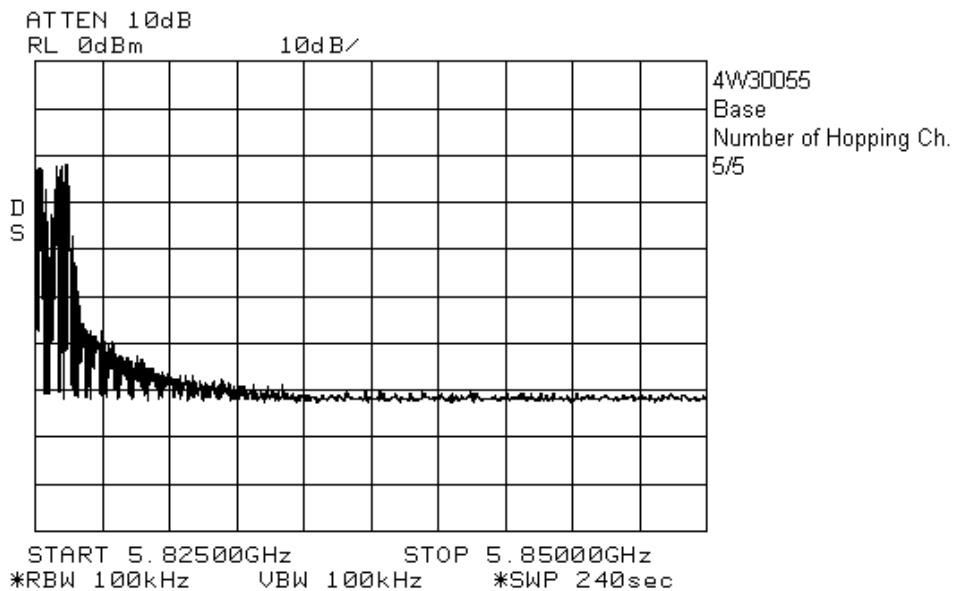
EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone



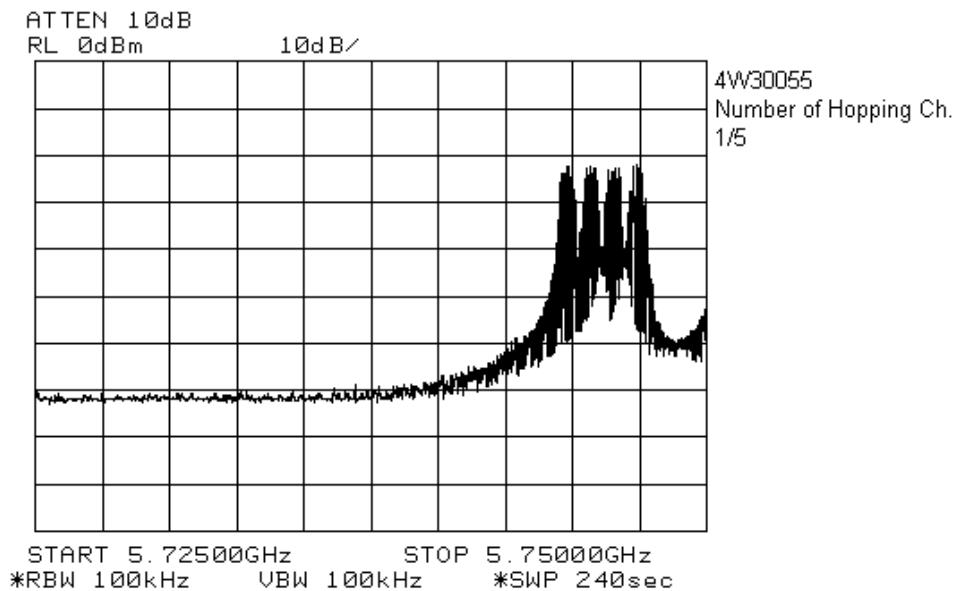
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Handset

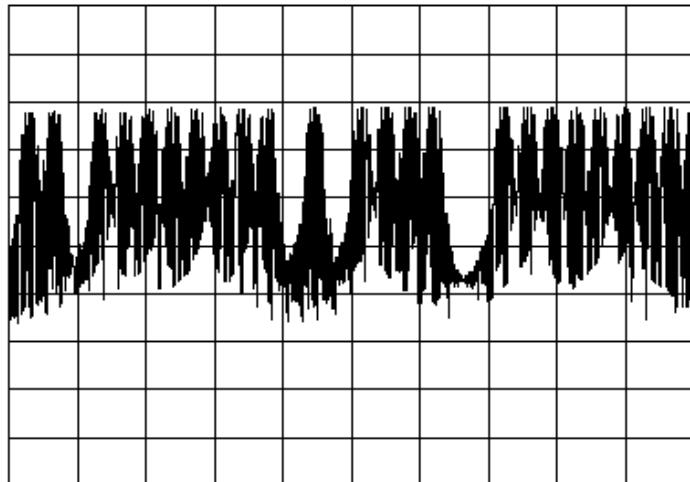


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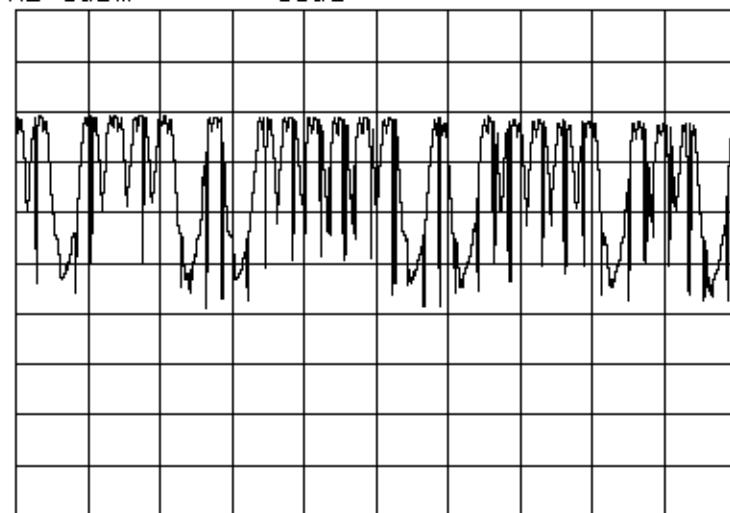
ATTEN 10dB
RL 0dBm 10dB/



4W30055
Number of Hopping Ch.
2/5

START 5.75000GHz STOP 5.77500GHz
*RBW 100kHz VBW 100kHz *SWP 240sec

ATTEN 10dB
RL 0dBm 10dB/



4W30055
Number of Hopping Ch.
3/5

START 5.77500GHz STOP 5.80000GHz
*RBW 100kHz VBW 100kHz *SWP 240sec

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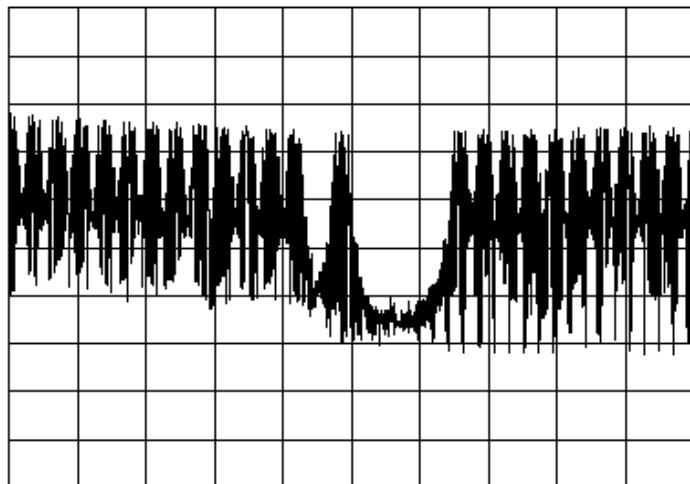
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ATTEN 10dB

RL 0dBm

10dB/



4W30055

H.S. Number of Hopping Ch.

4/5

START 5.80000GHz

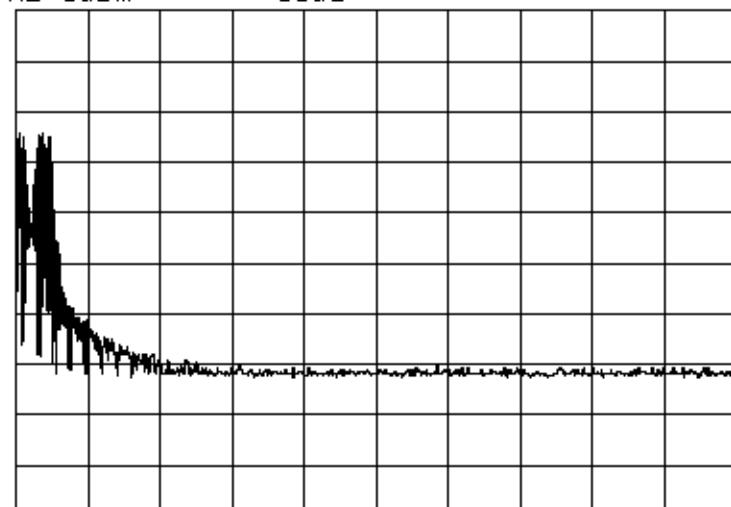
STOP 5.82500GHz

*RBW 100kHz VBW 100kHz *SWP 240sec

ATTEN 10dB

RL 0dBm

10dB/



4W30055

H.S. - Number of Hopping Ch.

5/5

START 5.82500GHz

STOP 5.85000GHz

*RBW 100kHz VBW 100kHz *SWP 240sec

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Section 7. Minimum Channel Separation

Para. No.: 15.247(a)(1)

Test Performed By: Kevin Carr	Date of Test: 4 Oct 2004
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Limit: > 725MHz, Base (20dB BW)
> 717MHz. Handset (20dB BW)

Measurement Data: See Plot(s)

Base = 840kHz

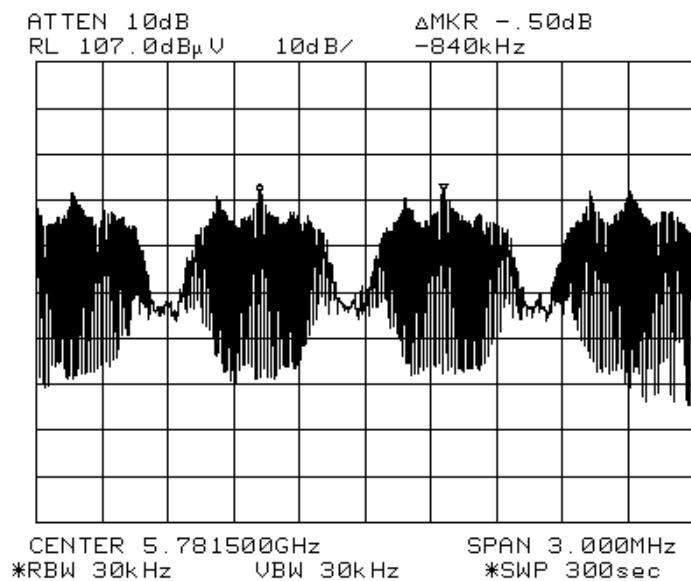
Handset = 867kHz

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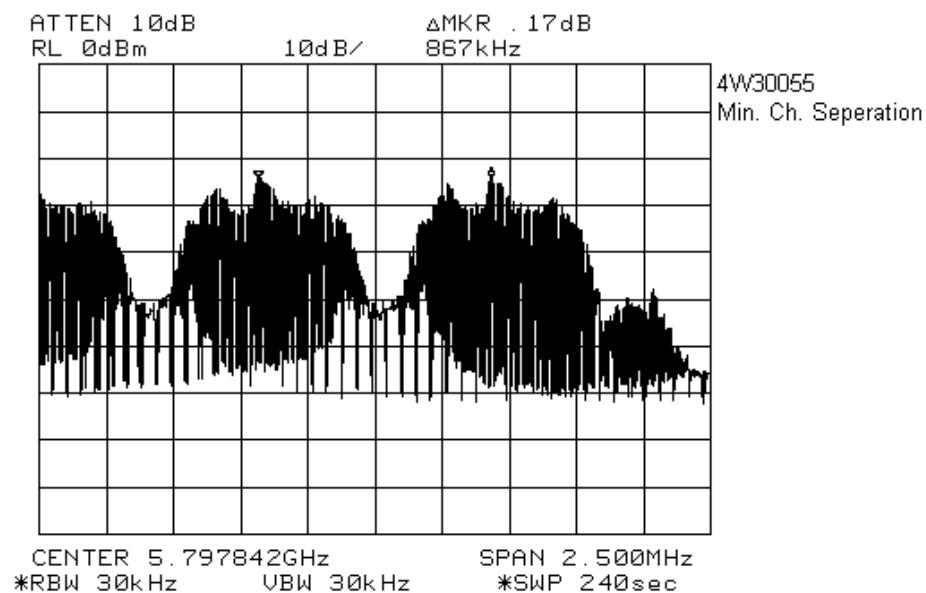
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Base



Handset



Section 8. Peak Output Power**Para. No.: 15.247 (b)(1)**

Test Performed By: Kevin Carr	Date of Test: 5 Oct 2004
--------------------------------------	---------------------------------

Limit: 1W**Test Results:** Complies. The maximum peak output power is:

Base: 126.9dBuV at 3m = 2.2131V/m.

Handset: 116.8dBuV at 3m= 0.69183V/m.

Antenna Gain(s):
Base: 2.2dBi
Handset: 0dBi

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

Base = 29.5dBm

Handset = 21.6dBm

Measurement Data: See Tabulated Data.

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PROJECT NO.:4W30055

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HS

Ch.	Freq.	Pol	ANT.	Rx	Cable loss	Ant Factor	F.S.
		V/H		dBuv	dB	dB/m	dBuV/m
low	5744.483	V	H2	70.1	3.6	34.5	108.2
	5744.583	H	H2	77.1	3.6	34.7	115.4
mid	5785.506	V	H2	69.5	3.6	34.5	107.6
	5785.506	H	H2	78.5	3.6	34.7	116.8
hi	5825.858	V	H2	69.3	3.6	34.5	107.4
	5825.858	H	H2	77.3	3.6	34.7	115.6

Base

Ch.	Freq.	Pol	ANT.	Rx	Cable loss	Ant Factor	F.S.
		V/H		dBuv	dB	dB/m	dBuV/m
low	5744.473	V	H2	88.8	3.6	34.5	126.9
	5744.473	H	H2	83.5	3.6	34.7	121.8
mid	5785.285	V	H2	87.9	3.6	34.5	126
	5785.105	H	H2	80.6	3.6	34.7	118.9
hi	5826.035	V	H2	88.1	3.6	34.5	126.2
	5825.910	H	H2	80.4	3.6	34.7	118.7

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FCC PART 15, SUBPART C
FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Section 9. Spurious Emissions

Para. No.: 15.247(d)

Test Performed By: Kevin Carr	Date of Test: 30 Sept 2004
--------------------------------------	-----------------------------------

Limit: 20dBc/100kHz
15.205(a), 15.209(a)

Measurement Data: See plots and tabulated data

Duty Cycle Calculations

Base: $20\log(0.9\text{mS}/100\text{mS}) = -20.9\text{dB}$

Handset: $20\log(1.0\text{mS}/100\text{mS}) = -20.0 \text{ dB}$

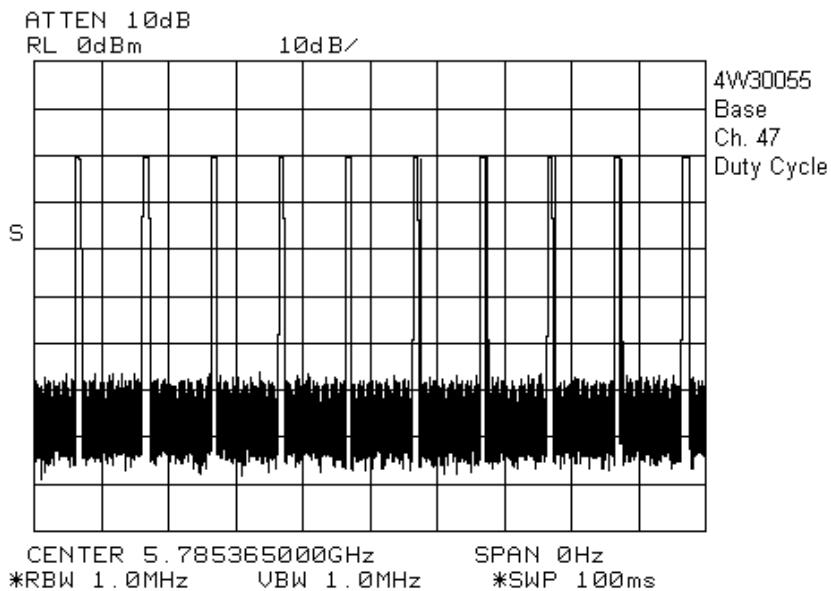
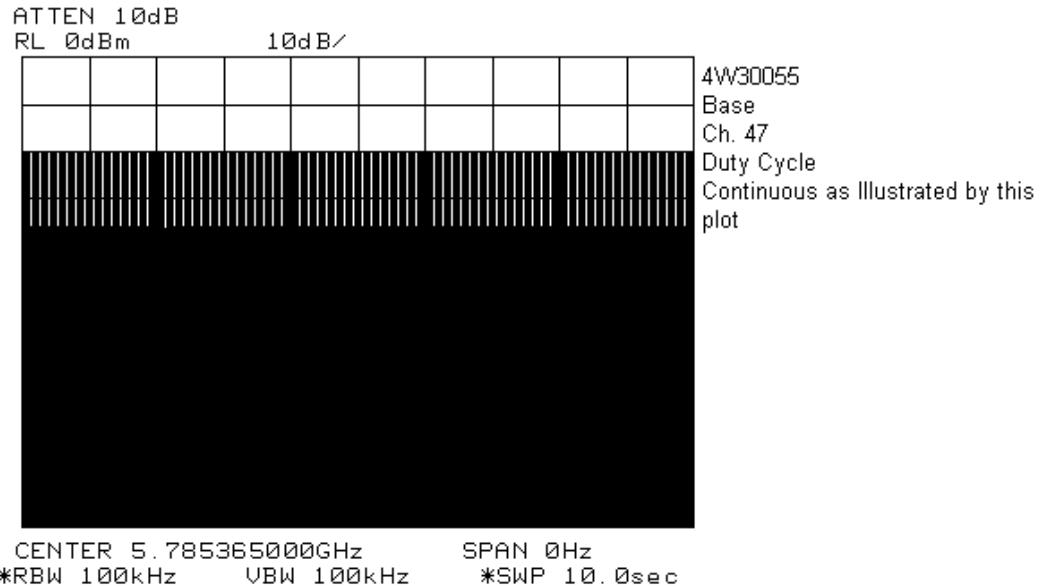
Maximum allowed: - 20dB

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EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

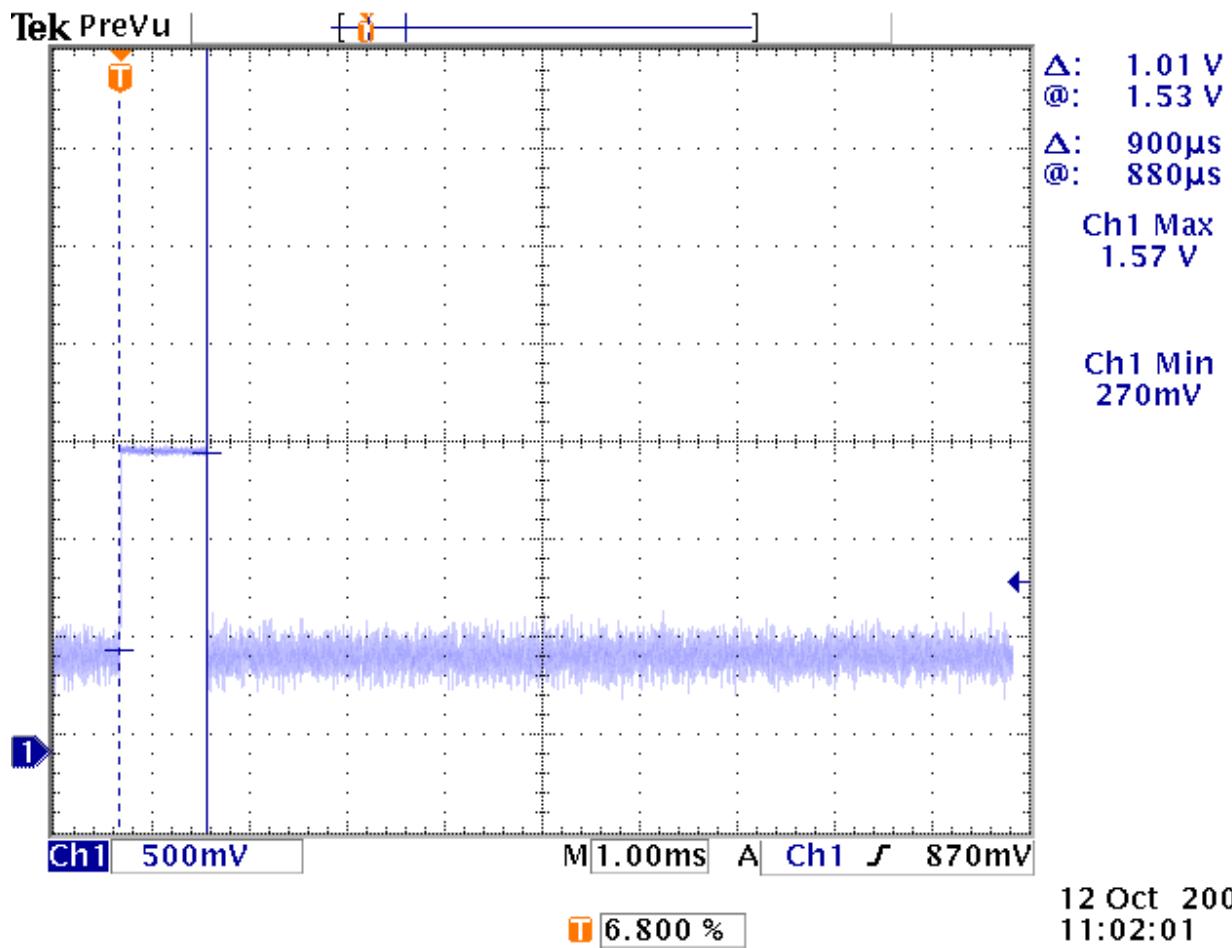
Base



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PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

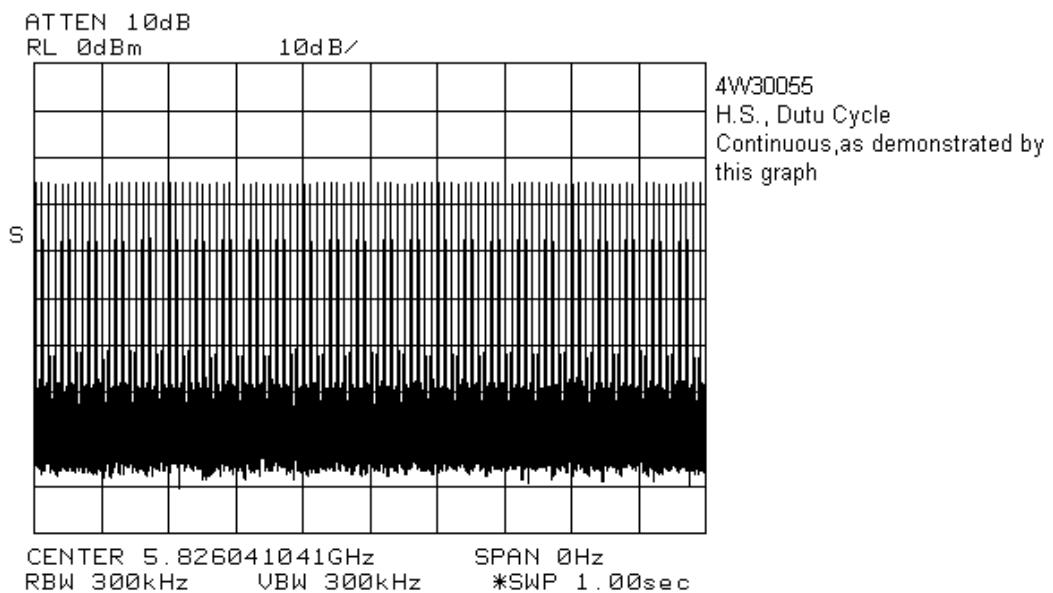
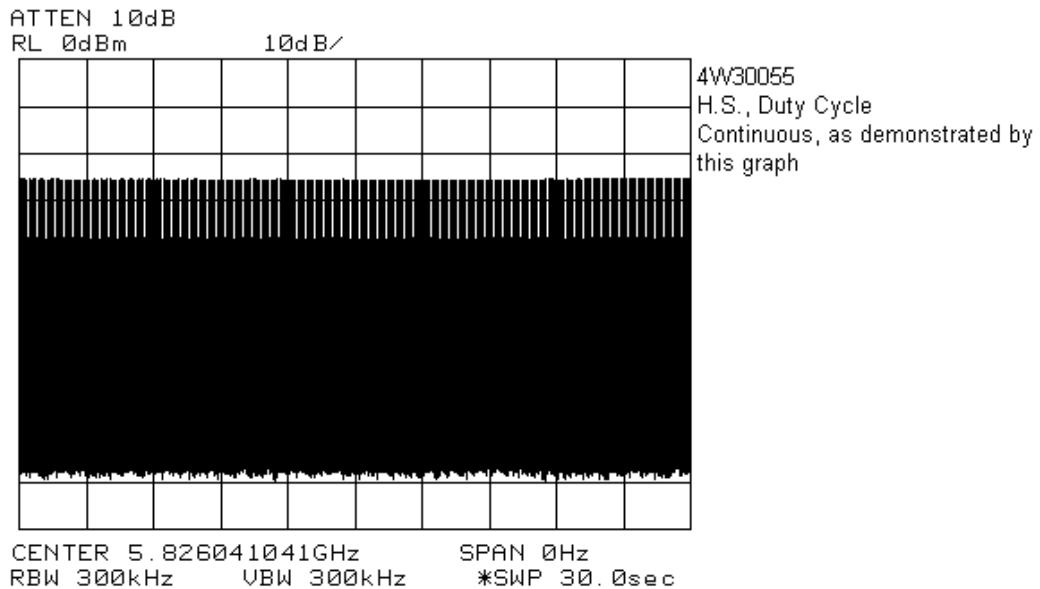


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PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

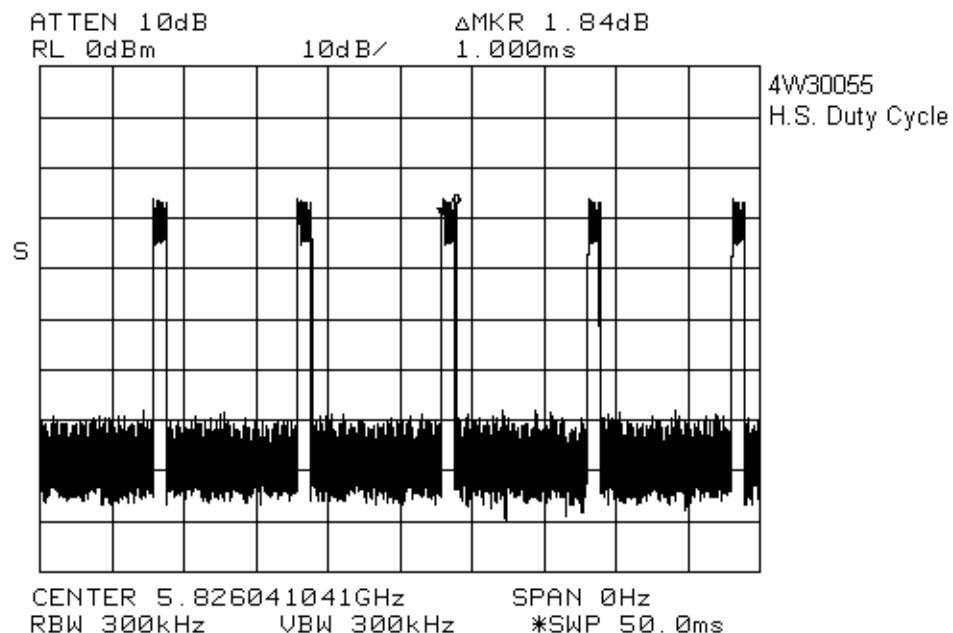
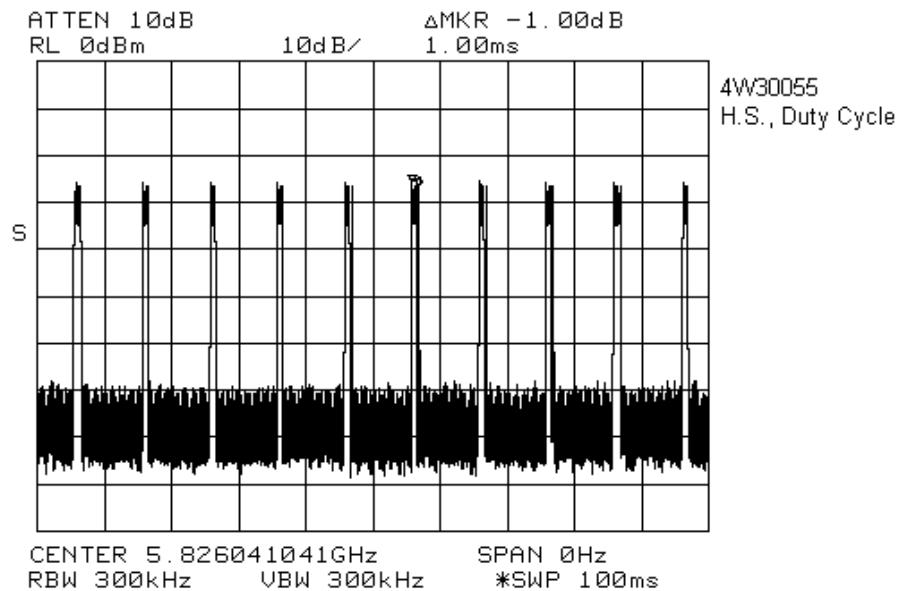
Handset



Nemko Canada Inc.

FCC PART 15, SUBPART C
FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone



EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Radiated Disturbance Test Data: Handset

Engineer's Name: Kevin Carr											
Tested as per: Table Top											
Test Distance (meters): 3						Test Distance (meters): 3					
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dB μ V)	Ant. Factor (dB)	Amp. Gain (dB)	Passband filter Loss (dB)	Duty Cycle Corr. (dB)	Cable Loss (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)
Low Ch.											
11488.966	V	H2	47	39.3	42.5	2.7	----	6.3	52.8	96.8	44
11488.966	H	H2	52	39.3	42.5	2.7	----	6.3	57.8	96.8	39
17233.449	V	H2	49.2	42.5	42.1	2.2	----	6.5	58.3	96.8	38.5
17233.449	H	H2	55	42.3	42.1	2.2	----	6.5	63.9	96.8	32.9
22977.932	V	H5	47	45.7	41.3	----	----	7.5	58.9	96.8	37.9
22977.932	H	H5	45	45.7	41.3	----	----	7.5	56.9	96.8	39.9
28722.415	V	H5	32	46.5	32.7	----	----	8.2	54	96.8	42.8
28722.415	H	H5	31	46.5	32.7	----	----	8.2	53	96.8	43.8
34466.898	V	H5	36	49.2	29.9	----	----	8.9	64.2	96.8	32.6
34466.898	H	H5	37	49.2	29.9	----	----	8.9	65.2	96.8	31.6
Mid Ch.											
11571.360	V	H2	40	39.3	42.3	2.7	----	6.3	46	96.8	50.8
11571.360	H	H2	40	39.3	42.3	2.7	----	6.3	46	96.8	50.8
17357.040	V	H2	47	42.5	40.5	2.2	----	6.5	57.7	96.8	39.1
17357.040	H	H2	48	42.3	40.5	2.2	----	6.5	58.5	96.8	38.3
23142.720	V	H5	47	45.7	40.4	----	----	7.2	59.5	96.8	37.3
23142.720	H	H5	47	45.7	40.4	----	----	7.2	59.5	96.8	37.3
28928.400	V	H5	33	46.5	36.3	----	----	8	51.2	96.8	45.6
28928.400	H	H5	37	46.5	36.3	----	----	8	55.2	96.8	41.6
34714.080	V	H5	34	49.2	29.4	----	----	8.4	62.2	96.8	34.6
34714.080	H	H5	37	49.2	29.4	----	----	8.4	65.2	96.8	31.6
High Ch.											
11651.716	V	H2	43	40.9	42.3	2.7	----	6	50.3	96.8	46.5
11651.716	H	H2	53	40.9	42.3	2.7	----	6	60.3	96.8	36.5
17477.574	V	H2	47	43.5	39.7	2.2	----	6	59	96.8	37.8
17477.574	H	H2	47	43.5	39.7	2.2	----	6	59	96.8	37.8
23303.432	V	H5	48.8	45.7	40.8	----	----	7	60.7	96.8	36.1
23303.432	H	H5	47	45.7	40.8	----	----	7	58.9	96.8	37.9
29129.290	V	H5	32	46.5	35.3	----	----	7.6	50.8	96.8	46
29129.290	H	H5	35	46.5	35.3	----	----	7.6	53.8	96.8	43
34955.148	V	H5	34	49.2	29	----	----	8.7	62.9	96.8	33.9
34955.148	H	H5	35	49.2	29	----	----	8.7	63.9	96.8	32.9

Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole
 Note 2: Positive Peak detector used
 Notes: Measurement Receiver = H.P.8565E, RBW/VBW = 1/3MHz

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Radiated Disturbance Test Data: Handset, Restricted Bands

Test Date: 30 Sept. 2004											
Engineer's Name: Kevin Carr											
Tested as per: Table Top											
Test Distance (meters): 3						Test Distance (meters): 3					
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dB μ V)	Ant. Factor (dB)	Amp. Gain (dB)	Passband filter Loss (dB)	Duty Cycle Corr. (dB)	Cable Loss (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)
Low Ch.											
11488.966	V	H2	47	39.3	42.5	2.7	----	6.3	52.8	74	21.2
11488.966	H	H2	52	39.3	42.5	2.7	----	6.3	57.8	74	16.2
11488.966	V	H2	47	39.3	42.5	2.7	20	6.3	32.8	54	21.2
11488.966	H	H2	52	39.3	42.5	2.7	20	6.3	37.8	54	16.2
22977.932	V	H5	47	45.7	41.3	----	----	7.5	58.9	74	15.1
22977.932	H	H5	45	45.7	41.3	----	----	7.5	56.9	74	17.1
22977.932	V	H5	47	45.7	41.3	----	20	7.5	38.9	54	15.1
22977.932	H	H5	45	45.7	41.3	----	20	7.5	36.9	54	17.1
Mid Ch.											
11571.360	V	H2	40	39.3	42.3	2.7	----	6.3	46	74	28
11571.360	H	H2	40	39.3	42.3	2.7	----	6.3	46	74	28
11571.360	V	H2	40	39.3	42.3	2.7	20	6.3	26	54	28
11571.360	H	H2	40	39.3	42.3	2.7	20	6.3	26	54	28
High Ch.											
11651.716	V	H2	43	40.9	42.3	2.7	----	6	50.3	74	23.7
11651.716	H	H2	53	40.9	42.3	2.7	----	6	60.3	74	13.7
11651.716	V	H2	43	40.9	42.3	2.7	20	6	30.3	54	23.7
11651.716	H	H2	53	40.9	42.3	2.7	20	6	40.3	54	13.7
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole											
Note 2: Positive Peak detector used											
Notes:	Measurement Receiver = H.P.8565E, RBW/VBW = 1/3MHz										

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Radiated Disturbance Test Data: Base

Engineer's Name: Kevin Carr											
Tested as per: Table Top											
Test Distance (meters): 3						Test Distance (meters): 3					
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dB μ V)	Ant. Factor (dB)	Amp. Gain (dB)	Passband filter Loss (dB)	Duty Cycle Corr. (dB)	Cable Loss (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)
Low Ch.											
11488.930	V	H2	64.8	39.3	42.5	2.7	----	6.3	70.6	106.9	36.3
11489.950	H	H2	61.8	39.3	42.5	2.7	----	6.3	67.6	106.9	39.3
17234.660	V	H2	68.2	42.5	42.1	2.2	----	6.5	77.3	106.9	29.6
17234.500	H	H2	62.8	42.3	42.1	2.2	----	6.5	71.7	106.9	35.2
22978.180	V	40G	52.3	45.7	41.3	----	----	7.5	64.2	106.9	42.7
22978.650	H	40G	50.7	45.7	41.3	----	----	7.5	62.6	106.9	44.3
28723.120	V	40G	32.5	46.5	32.7	----	----	8.2	54.5	106.9	52.4
28723.120	H	40G	33	46.5	32.7	----	----	8.2	55	106.9	51.9
34467.900	V	40G	35	49.2	29.9	----	----	8.9	63.2	106.9	43.7
34467.590	H	40G	35	49.2	29.9	----	----	8.9	63.2	106.9	43.7
Mid Ch.											
11570.300	V	H2	65.2	39.3	42.3	2.7	----	6.3	71.2	106.9	35.7
11570.500	H	H2	60.5	39.3	42.3	2.7	----	6.3	66.5	106.9	40.4
17355.390	V	H2	67.1	42.5	40.5	2.2	----	6.5	77.8	106.9	29.1
17355.670	H	H2	61.6	42.3	40.5	2.2	----	6.5	72.1	106.9	34.8
23140.470	V	40G	59	45.7	40.4	----	----	7.2	71.5	106.9	35.4
23140.830	H	40G	57.3	45.7	40.4	----	----	7.2	69.8	106.9	37.1
28925.710	V	40G	34.7	46.5	36.3	----	----	8	52.9	106.9	54
28925.710	H	40G	35	46.5	36.3	----	----	8	53.2	106.9	53.7
34710.810	V	40G	35	49.2	29.4	----	----	8.4	63.2	106.9	43.7
34710.810	H	40G	35	49.2	29.4	----	----	8.4	63.2	106.9	43.7
High Ch.											
11651.163	V	H2	66.5	40.9	42.3	2.7	----	6	73.8	106.9	33.1
11651.800	H	H2	63.1	40.9	42.3	2.7	----	6	70.4	106.9	36.5
17477.420	V	H2	65.3	43.5	39.7	2.2	----	6	77.3	106.9	29.6
17477.420	H	H2	58.4	43.5	39.7	2.2	----	6	70.4	106.9	36.5
23303.570	V	40G	57.2	45.7	40.8	----	----	7	69.1	106.9	37.8
23302.970	H	40G	54.3	45.7	40.8	----	----	7	66.2	106.9	40.7
29129.800	V	40G	31.5	46.5	35.3	----	----	7.6	50.3	106.9	56.6
29129.800	H	40G	34	46.5	35.3	----	----	7.6	52.8	106.9	54.1
34955.760	V	40G	35	49.2	29	----	----	8.7	63.9	106.9	43
34955.760	H	40G	35.3	49.2	29	----	----	8.7	64.2	106.9	42.7
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole											
Note 2: Positive Peak detector used											
Notes:	Measurement Receiver = H.P.8565E, RBW/VBW = 1/3MHz										

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Radiated Disturbance Test Data: Base, Restricted Bands

Test Date: 30 Sept. 2004											
Engineer's Name: Kevin Carr											
Tested as per: Table Top											
Test Distance (meters): 3						Test Distance (meters): 3					
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dB μ V)	Ant. Factor (dB)	Amp. Gain (dB)	Passband filter Loss (dB)	Duty Cycle Corr. (dB)	Cable Loss (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)
Low Ch.											
11488.930	V	H2	64.8	39.3	42.5	2.7	----	6.3	70.6	74	3.4
11489.950	H	H2	61.8	39.3	42.5	2.7	----	6.3	67.6	74	6.4
11488.930	V	H2	64.8	39.3	42.5	2.7	20	6.3	50.6	54	3.4
11489.950	H	H2	61.8	39.3	42.5	2.7	20	6.3	47.6	54	6.4
22978.180	V	40G	52.3	45.7	41.3	----	----	7.5	64.2	74	9.8
22978.650	H	40G	50.7	45.7	41.3	----	----	7.5	62.6	74	11.4
22978.180	V	40G	52.3	45.7	41.3	----	20	7.5	44.2	54	9.8
22978.650	H	40G	50.7	45.7	41.3	----	20	7.5	42.6	54	11.4
Mid Ch.											
11570.300	V	H2	65.2	39.3	42.3	2.7	----	6.3	71.2	74	2.8
11570.500	H	H2	60.5	39.3	42.3	2.7	----	6.3	66.5	74	7.5
11570.300	V	H2	65.2	39.3	42.3	2.7	20	6.3	51.2	54	2.8
11570.500	H	H2	60.5	39.3	42.3	2.7	20	6.3	46.5	54	7.5
23140.470	V	40G	59	45.7	40.4	----	----	7.2	71.5	74	2.5
23140.830	H	40G	57.3	45.7	40.4	----	----	7.2	69.8	74	4.2
23140.470	V	40G	59	45.7	40.4	----	20	7.2	51.5	54	2.5
23140.830	H	40G	57.3	45.7	40.4	----	20	7.2	49.8	54	4.2
High Ch.											
11651.163	V	H2	66.5	40.9	42.3	2.7	----	6	73.8	74	0.2
11651.800	H	H2	63.1	40.9	42.3	2.7	----	6	70.4	74	3.6
11651.163	V	H2	66.5	40.9	42.3	2.7	20	6	53.8	54	0.2
11651.800	H	H2	63.1	40.9	42.3	2.7	20	6	50.4	54	3.6
23303.570	V	40G	57.2	45.7	40.8	----	----	7	69.1	74	4.9
23302.970	H	40G	54.3	45.7	40.8	----	----	7	66.2	74	7.8
23303.570	V	40G	57.2	45.7	40.8	----	20	7	49.1	54	4.9
23302.970	H	40G	54.3	45.7	40.8	----	20	7	46.2	54	7.8
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole											
Note 2: Positive Peak detector used											
Notes:	Measurement Receiver = H.P.8565E, RBW/VBW = 1/3MHz										

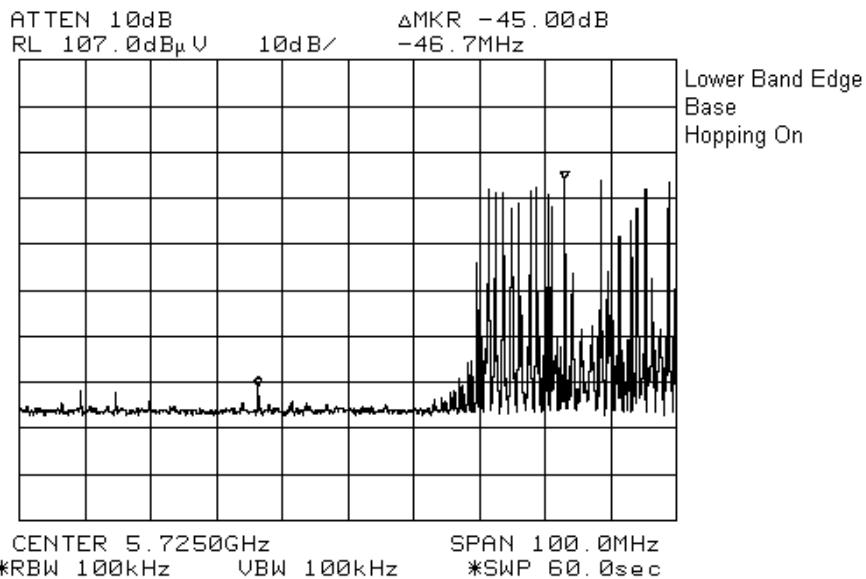
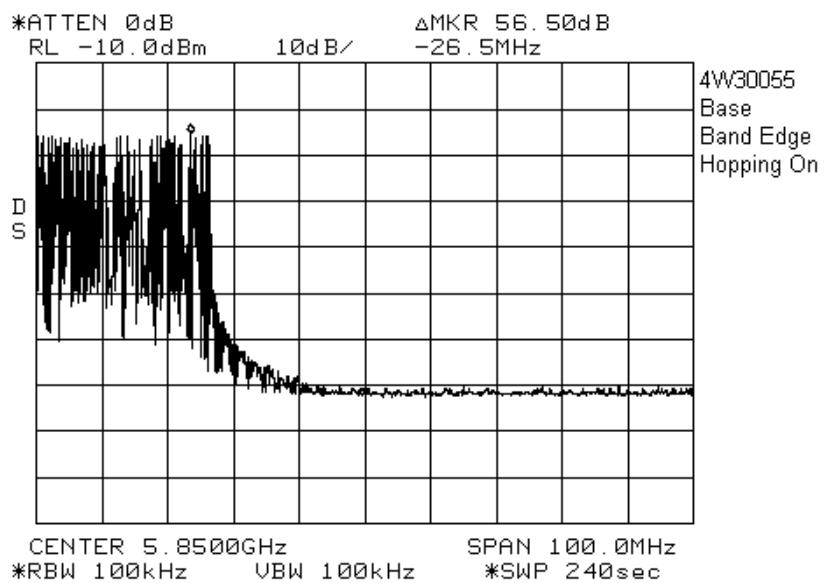
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FCC PART 15, SUBPART C
FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

20 dB Bandedge

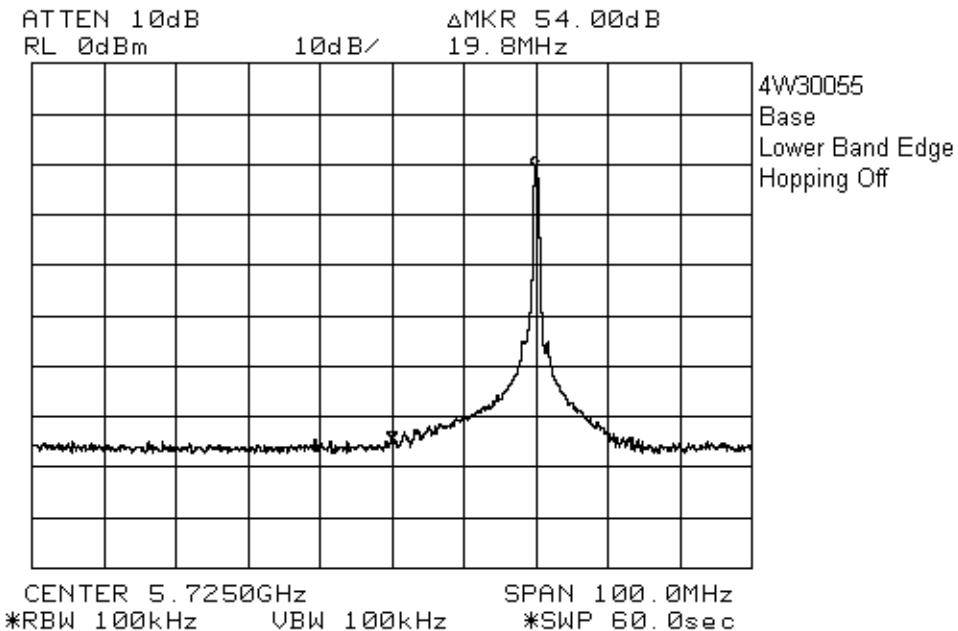
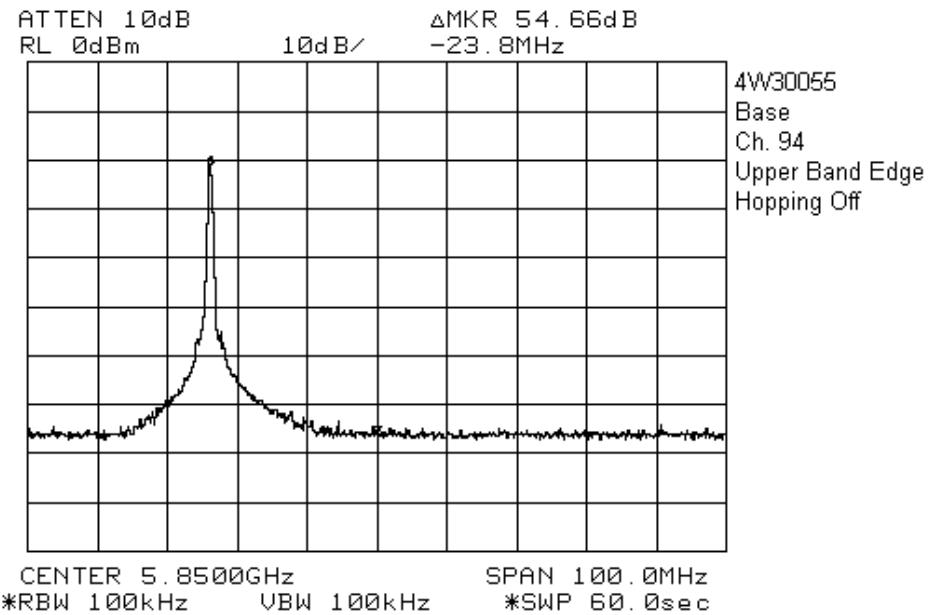
Base



Nemko Canada Inc.

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FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

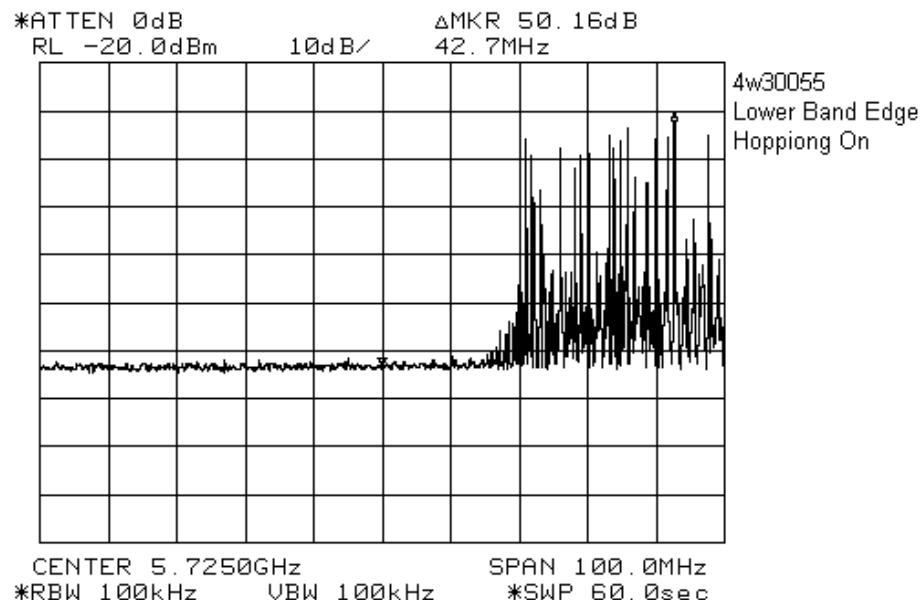
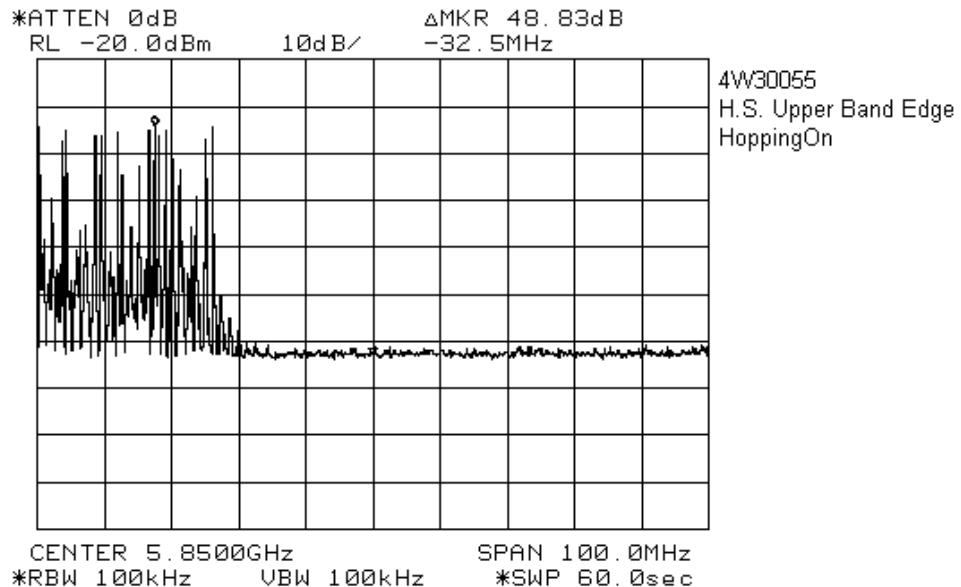


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FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

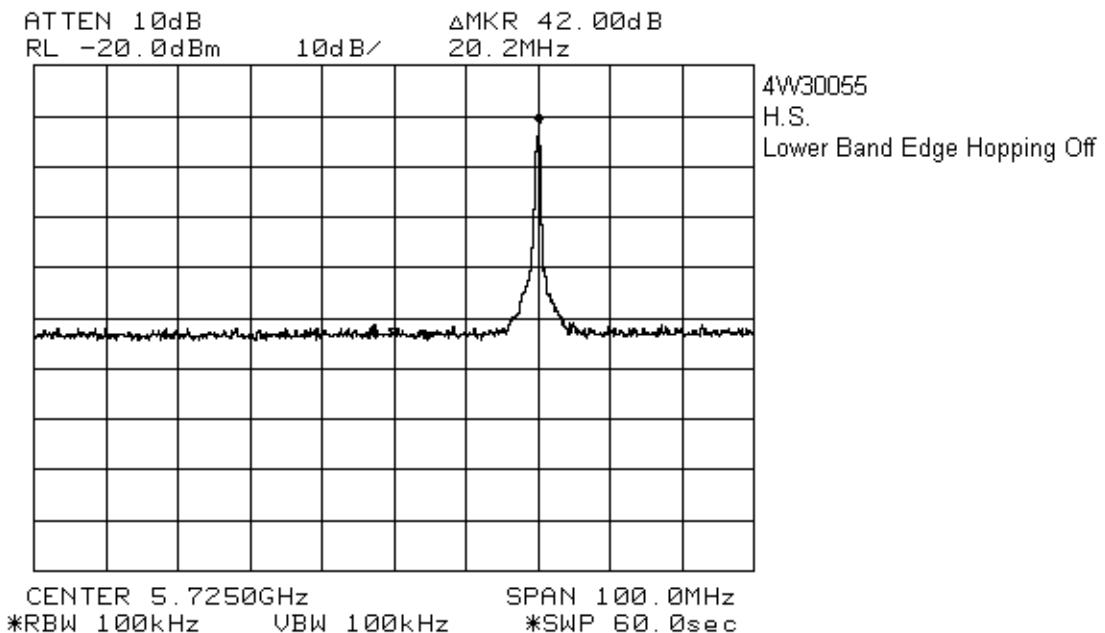
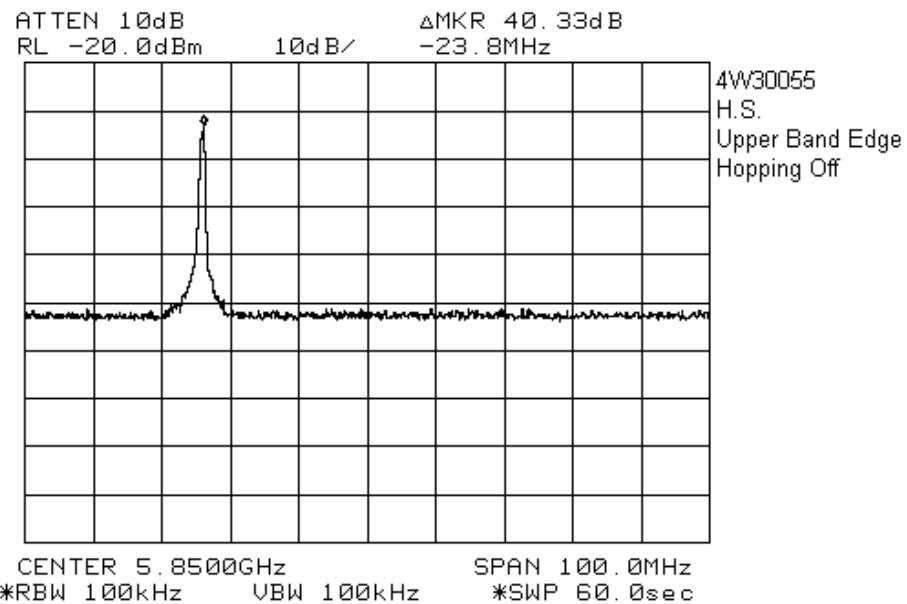
Handset



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FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

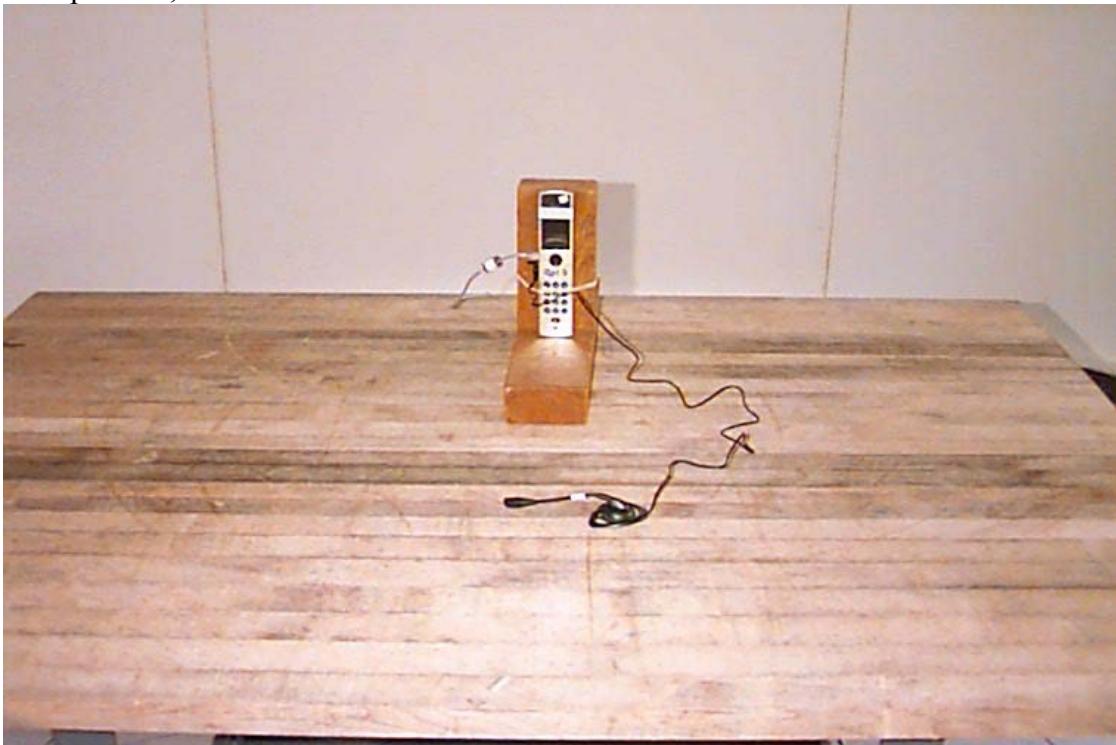


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FCC PART 15, SUBPART C
FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Set-up Photo, Handset

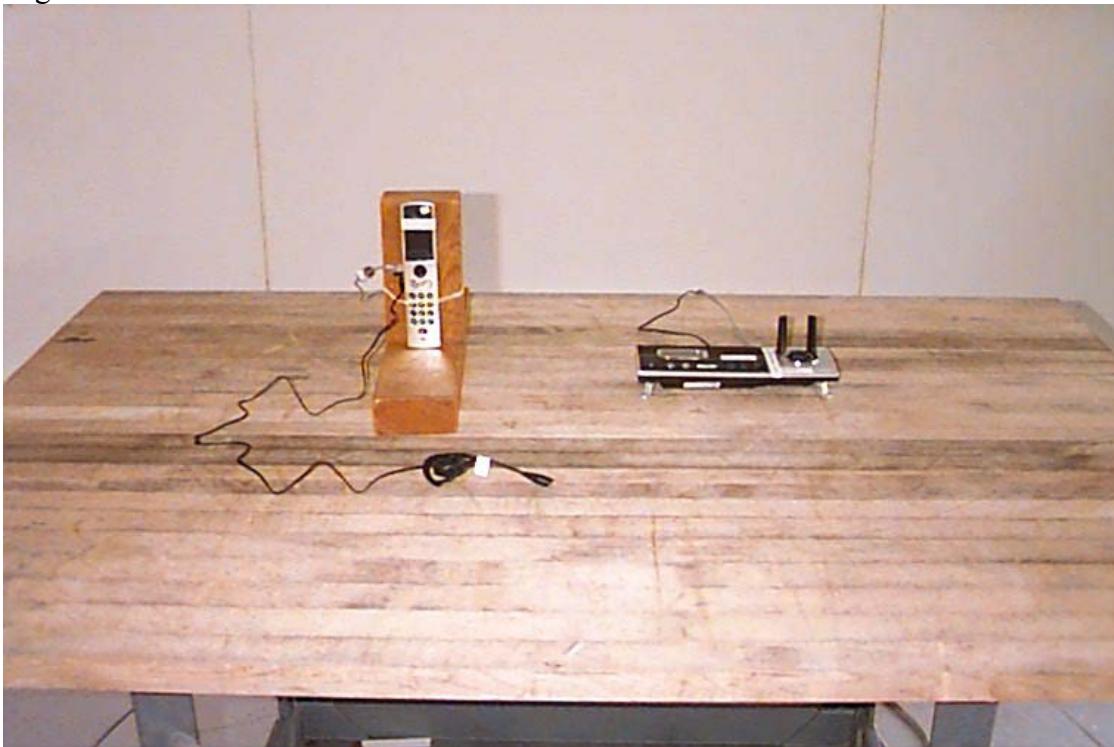


Nemko Canada Inc.

FCC PART 15, SUBPART C
FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Digital Emissions

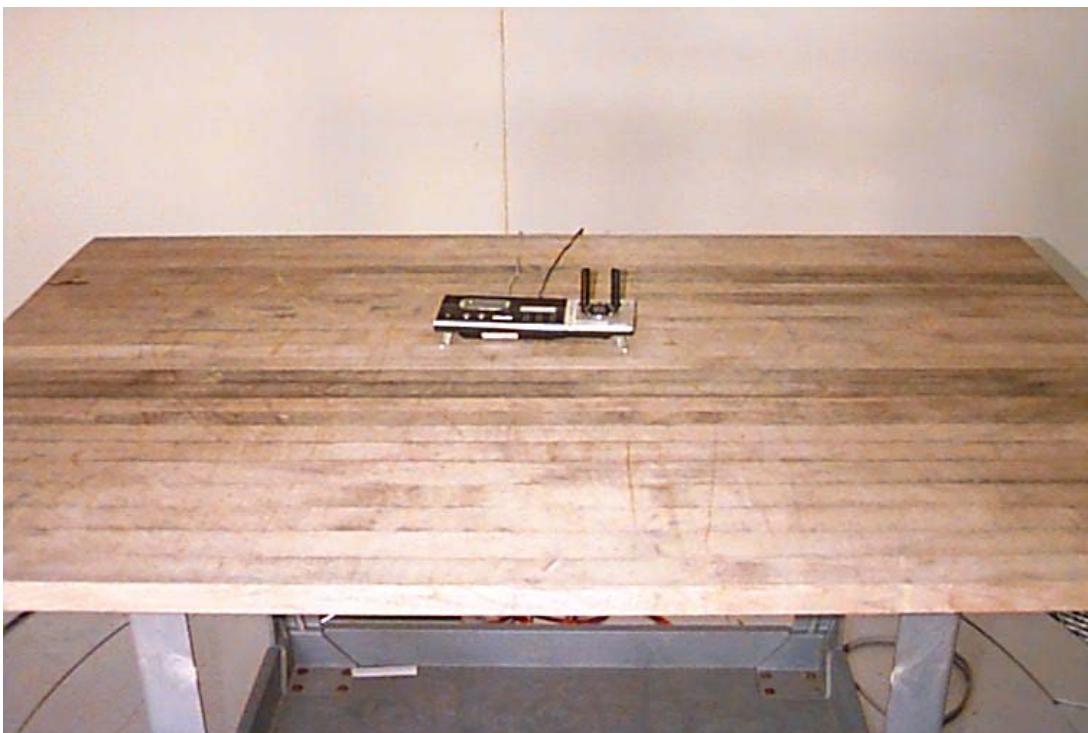
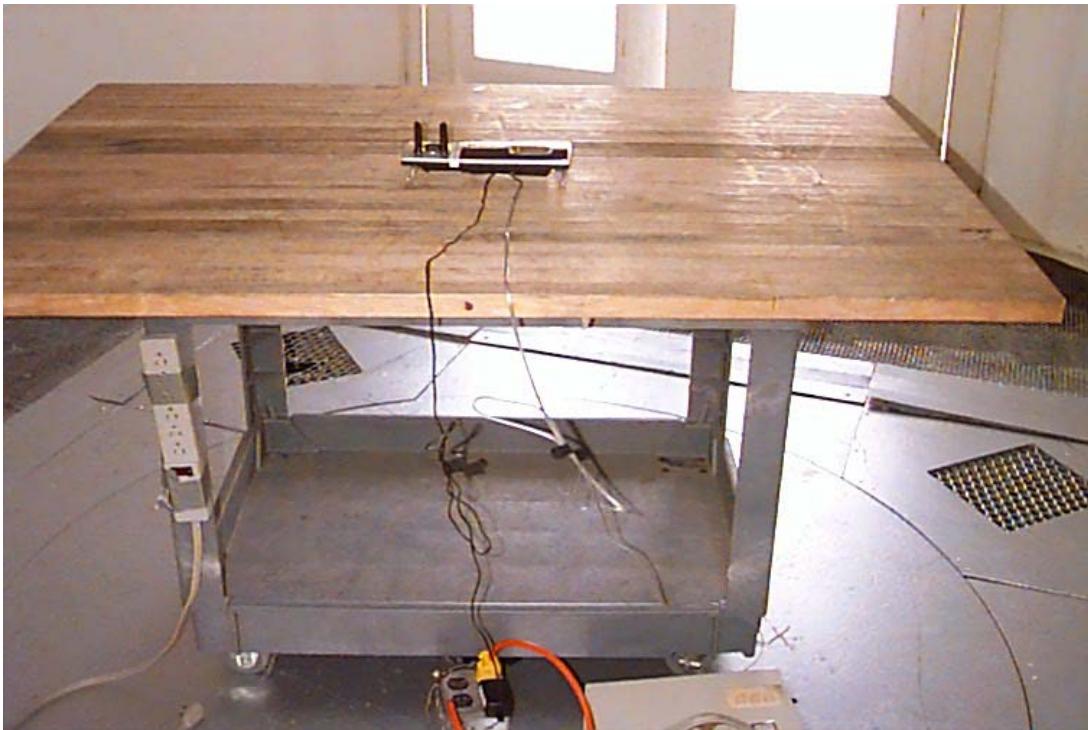


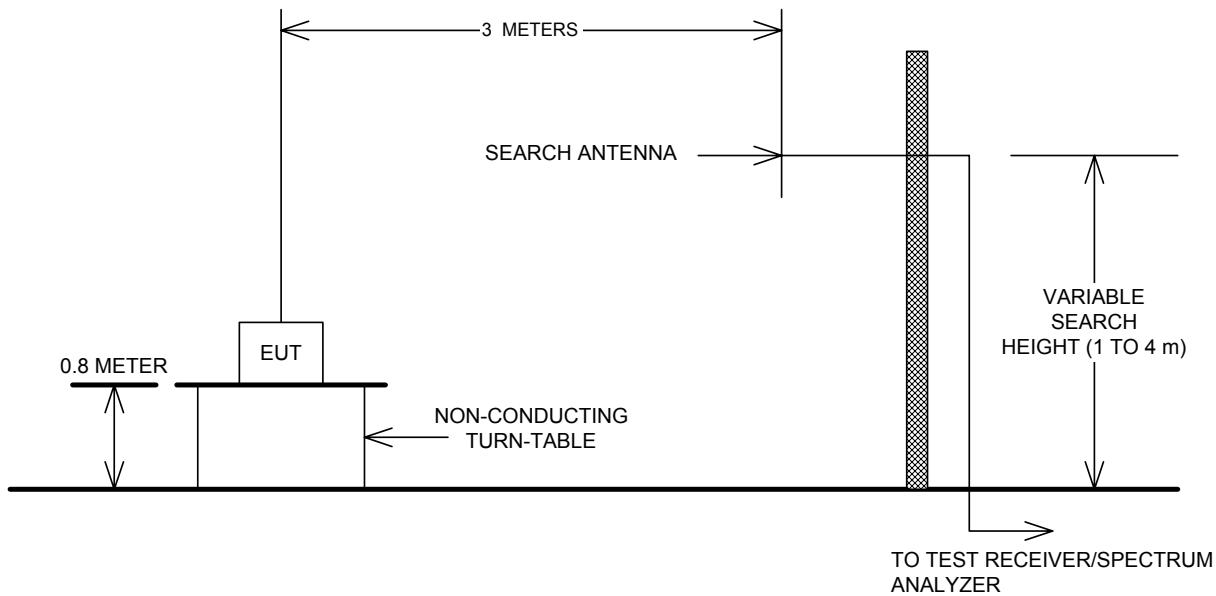
Nemko Canada Inc.

FCC PART 15, SUBPART C
FREQUENCY HOPPING TRANSMITTERS
PROJECT NO.:4W30055

EQUIPMENT: VTech i5871, 5.8GHz Digital FHSS, Cordless Phone

Base



Section 10. Block Diagrams**Test Site For Radiated Emissions****AC Power Line Conducted Emissions**